



## SAR EVALUATION REPORT

### Applicant Name:

Samsung Electronics Co., Ltd.  
129, Samsung-ro, Maetan dong,  
Yeongtong-gu, Suwon-si  
Gyeonggi-do, 16677, Korea

### Date of Testing:

2/11/19 - 3/10/19

### Test Site/Location:

PCTEST Lab, Columbia, MD, USA

### Document Serial No.:

1M1901280020-01-R1.A3L

### FCC ID:

A3LSMF900F

### APPLICANT:

SAMSUNG ELECTRONICS CO., LTD.

### DUT Type:

Portable Handset

### Application Type:

Certification

### FCC Rule Part(s):

CFR §2.1093

### Model:

SM-F900F

| Equipment Class                            | Band & Mode        | Tx Frequency          | SAR            |                     |                   |                    |                     |                           |
|--------------------------------------------|--------------------|-----------------------|----------------|---------------------|-------------------|--------------------|---------------------|---------------------------|
|                                            |                    |                       | 1g Head (W/kg) | 1g Body-Worn (W/kg) | 1g Hotspot (W/kg) | 10g Phablet (W/kg) | 1g UMPC Body (W/kg) | 10g UMPC Extremity (W/kg) |
| PCE                                        | GSM/GPRS/EDGE 850  | 824.20 - 848.80 MHz   | 0.37           | 0.27                | 0.50              | N/A                | 0.78                | 1.72                      |
| PCE                                        | GSM/GPRS/EDGE 1900 | 1850.20 - 1909.80 MHz | 0.11           | 0.27                | 0.73              | 2.63               | 1.13                | 3.11                      |
| PCE                                        | UMTS 850           | 826.40 - 846.60 MHz   | 0.43           | 0.27                | 0.52              | N/A                | 0.43                | 1.51                      |
| PCE                                        | UMTS 1750          | 1712.4 - 1752.6 MHz   | 0.23           | 0.69                | 0.86              | 2.55               | 0.79                | 2.96                      |
| PCE                                        | UMTS 1900          | 1852.4 - 1907.6 MHz   | 0.23           | 0.45                | 1.03              | 3.08               | 1.38                | 3.28                      |
| PCE                                        | LTE Band 71        | 665.5 - 695.5 MHz     | 0.20           | 0.34                | 0.71              | N/A                | 0.43                | 1.31                      |
| PCE                                        | LTE Band 12        | 699.7 - 715.3 MHz     | 0.25           | 0.38                | 0.93              | N/A                | 0.52                | 1.44                      |
| PCE                                        | LTE Band 13        | 779.5 - 784.5 MHz     | 0.25           | 0.27                | 0.59              | N/A                | 0.70                | 1.72                      |
| PCE                                        | LTE Band 14        | 790.5 - 795.5 MHz     | 0.26           | 0.28                | 0.57              | N/A                | 0.67                | 1.62                      |
| PCE                                        | LTE Band 26 (Cell) | 814.7 - 848.3 MHz     | 0.38           | 0.20                | 0.64              | N/A                | 0.46                | 1.49                      |
| PCE                                        | LTE Band 5 (Cell)  | 824.7 - 848.3 MHz     | N/A            | N/A                 | N/A               | N/A                | N/A                 | N/A                       |
| PCE                                        | LTE Band 66 (AWS)  | 1710.7 - 1779.3 MHz   | 0.20           | 0.50                | 0.87              | 2.74               | 0.86                | 3.29                      |
| PCE                                        | LTE Band 4 (AWS)   | 1710.7 - 1754.3 MHz   | N/A            | N/A                 | N/A               | N/A                | N/A                 | N/A                       |
| PCE                                        | LTE Band 25 (PCS)  | 1850.7 - 1914.3 MHz   | 0.21           | 0.42                | 0.91              | 3.02               | 1.24                | 3.29                      |
| PCE                                        | LTE Band 2 (PCS)   | 1850.7 - 1909.3 MHz   | N/A            | N/A                 | N/A               | N/A                | N/A                 | N/A                       |
| PCE                                        | LTE Band 30        | 2307.5 - 2312.5 MHz   | 0.22           | 0.37                | 0.78              | 2.83               | 1.17                | 3.29                      |
| PCE                                        | LTE Band 7         | 2502.5 - 2567.5 MHz   | 0.16           | 0.30                | 0.91              | 2.00               | 1.40                | 2.73                      |
| PCE                                        | LTE Band 41        | 2498.5 - 2687.5 MHz   | 0.10           | 0.11                | 0.84              | 2.64               | 1.11                | 3.24                      |
| PCE                                        | LTE Band 38        | 2572.5 - 2617.5 MHz   | N/A            | N/A                 | N/A               | N/A                | N/A                 | N/A                       |
| DTS                                        | 2.4 GHz WLAN       | 2412 - 2472 MHz       | < 0.1          | 0.10                | 0.31              | N/A                | 0.50                | 3.19                      |
| NII                                        | U-NII-1            | 5180 - 5240 MHz       | N/A            | N/A                 | N/A               | N/A                | N/A                 | N/A                       |
| NII                                        | U-NII-2A           | 5260 - 5320 MHz       | < 0.1          | 0.34                | N/A               | 0.77               | 0.49                | 0.77                      |
| NII                                        | U-NII-2C           | 5500 - 5720 MHz       | < 0.1          | 0.54                | N/A               | 0.78               | 0.74                | 0.85                      |
| NII                                        | U-NII-3            | 5745 - 5825 MHz       | < 0.1          | 0.15                | 0.18              | N/A                | 0.26                | 0.69                      |
| DSS/DTTS                                   | Bluetooth          | 2402 - 2480 MHz       | < 0.1          | < 0.1               | < 0.1             | N/A                | 0.14                | 0.87                      |
| Simultaneous SAR per KDB 690783 D01v01r03: |                    |                       | 0.69           | 1.52                | 1.58              | 3.85               | 1.59                | 3.99                      |

Note: This revised Test Report (S/N: 1M1901280020-01-R1.A3L) 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 1.8 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: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset | Page 1 of 176                                                                         |                                 |

# TABLE OF CONTENTS

|    |                                                  |     |
|----|--------------------------------------------------|-----|
| 1  | DEVICE UNDER TEST .....                          | 3   |
| 2  | LTE INFORMATION .....                            | 16  |
| 3  | INTRODUCTION .....                               | 17  |
| 4  | DOSIMETRIC ASSESSMENT .....                      | 18  |
| 5  | DEFINITION OF REFERENCE POINTS .....             | 19  |
| 6  | TEST CONFIGURATION POSITIONS .....               | 20  |
| 7  | RF EXPOSURE LIMITS .....                         | 24  |
| 8  | FCC MEASUREMENT PROCEDURES.....                  | 25  |
| 9  | RF CONDUCTED POWERS.....                         | 31  |
| 10 | SYSTEM VERIFICATION.....                         | 85  |
| 11 | SAR DATA SUMMARY .....                           | 91  |
| 12 | FCC MULTI-TX AND ANTENNA SAR CONSIDERATIONS..... | 133 |
| 13 | SAR MEASUREMENT VARIABILITY .....                | 167 |
| 14 | ADDITIONAL TESTING PER FCC GUIDANCE .....        | 169 |
| 15 | EQUIPMENT LIST .....                             | 172 |
| 16 | MEASUREMENT UNCERTAINTIES.....                   | 173 |
| 17 | CONCLUSION.....                                  | 174 |
| 18 | REFERENCES .....                                 | 175 |

APPENDIX A: SAR TEST PLOTS

APPENDIX B: SAR DIPOLE VERIFICATION PLOTS

APPENDIX C: PROBE AND DIPOLE CALIBRATION CERTIFICATES

APPENDIX D: SAR TISSUE SPECIFICATIONS

APPENDIX E: SAR SYSTEM VALIDATION

APPENDIX F: DUT ANTENNA DIAGRAM & SAR TEST SETUP PHOTOGRAPHS

APPENDIX G: POWER REDUCTION VERIFICATION

APPENDIX H: DOWNLINK LTE CA RF CONDUCTED POWERS

APPENDIX I: IEEE 802.11AX RU SAR EXCLUSION

|                                         |                                                                                     |                               |                                                                                       |                                 |
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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   |
| LTE Band 71        | Voice/Data      | 665.5 - 695.5 MHz     |
| LTE Band 12        | Voice/Data      | 699.7 - 715.3 MHz     |
| LTE Band 13        | Voice/Data      | 779.5 - 784.5 MHz     |
| LTE Band 14        | Voice/Data      | 790.5 - 795.5 MHz     |
| LTE Band 26 (Cell) | Voice/Data      | 814.7 - 848.3 MHz     |
| LTE Band 5 (Cell)  | Voice/Data      | 824.7 - 848.3 MHz     |
| LTE Band 66 (AWS)  | Voice/Data      | 1710.7 - 1779.3 MHz   |
| LTE Band 4 (AWS)   | Voice/Data      | 1710.7 - 1754.3 MHz   |
| LTE Band 25 (PCS)  | Voice/Data      | 1850.7 - 1914.3 MHz   |
| LTE Band 2 (PCS)   | Voice/Data      | 1850.7 - 1909.3 MHz   |
| LTE Band 30        | Voice/Data      | 2307.5 - 2312.5 MHz   |
| LTE Band 7         | Voice/Data      | 2502.5 - 2567.5 MHz   |
| LTE Band 41        | Voice/Data      | 2498.5 - 2687.5 MHz   |
| LTE Band 38        | Voice/Data      | 2572.5 - 2617.5 MHz   |
| 2.4 GHz WLAN       | Voice/Data      | 2412 - 2472 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             |
| ANT+               | Data            | 2402 - 2480 MHz       |
| MST                | Data            | 555 Hz - 8.33 kHz     |

## 1.2 Power Reduction for SAR

This device utilizes a power reduction mechanism for some wireless modes and bands for SAR compliance under portable hotspot conditions and under some conditions when the device is being used in close proximity to the user's hand, and when headphones are inserted. All hotspot SAR evaluations for this device were performed at the maximum allowed output power when hotspot is enabled. FCC KDB Publication 616217 D04v01r02 Section 6 and FCC KDB Publication 941225 D07v01r02 were used as a guideline for selecting SAR test distances for this device when being used in phablet and UMPC mini-tablet use conditions. Detailed descriptions of the power reduction mechanism are included in the operational description.

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.

|                                                |                                                                                     |                                      |                                                                                       |                                        |
|------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
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| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                             | <b>DUT Type:</b><br>Portable Handset | Page 3 of 176                                                                         |                                        |

## 1.3 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.

### 1.3.1 Maximum 2G/3G/4G Output Power

| Mode / Band        |         | Voice (dBm) | Burst Average GMSK (dBm) |            |            |            | Burst Average 8-PSK (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 |
| GSM/GPRS/EDGE 850  | Maximum | 34.0        | 34.0                     | 33.0       | 31.0       | 28.5       | 28.0                      | 26.5       | 24.5       | 23.5       |
|                    | Nominal | 33.0        | 33.0                     | 32.0       | 30.0       | 27.5       | 27.0                      | 25.5       | 23.5       | 22.5       |
| GSM/GPRS/EDGE 1900 | Maximum | 31.5        | 31.5                     | 30.5       | 28.0       | 26.0       | 27.0                      | 25.5       | 23.5       | 22.5       |
|                    | Nominal | 30.5        | 30.5                     | 29.5       | 27.0       | 25.0       | 26.0                      | 24.5       | 22.5       | 21.5       |

| Mode / Band            |         | Modulated Average (dBm) |            |            |               |
|------------------------|---------|-------------------------|------------|------------|---------------|
|                        |         | 3GPP WCDMA              | 3GPP HSDPA | 3GPP HSUPA | 3GPP DC-HSDPA |
| UMTS Band 5 (850 MHz)  | Maximum | 25.5                    | 24.5       | 24.5       | 24.5          |
|                        | Nominal | 24.5                    | 23.5       | 23.5       | 23.5          |
| UMTS Band 4 (1750 MHz) | Maximum | 25.5                    | 24.5       | 24.5       | 24.5          |
|                        | Nominal | 24.5                    | 23.5       | 23.5       | 23.5          |
| UMTS Band 2 (1900 MHz) | Maximum | 25.5                    | 24.5       | 24.5       | 24.5          |
|                        | Nominal | 24.5                    | 23.5       | 23.5       | 23.5          |

| Mode / Band        |         | Modulated Average (dBm) |
|--------------------|---------|-------------------------|
| LTE Band 71        | Maximum | 25.5                    |
|                    | Nominal | 24.5                    |
| LTE Band 12        | Maximum | 25.5                    |
|                    | Nominal | 24.5                    |
| LTE Band 13        | Maximum | 25.5                    |
|                    | Nominal | 24.5                    |
| LTE Band 14        | Maximum | 25.5                    |
|                    | Nominal | 24.5                    |
| LTE Band 26 (Cell) | Maximum | 25.5                    |
|                    | Nominal | 24.5                    |
| LTE Band 5 (Cell)  | Maximum | 25.5                    |
|                    | Nominal | 24.5                    |
| LTE Band 66 (AWS)  | Maximum | 25.0                    |
|                    | Nominal | 24.0                    |
| LTE Band 4 (AWS)   | Maximum | 25.0                    |
|                    | Nominal | 24.0                    |
| LTE Band 25 (PCS)  | Maximum | 25.0                    |
|                    | Nominal | 24.0                    |
| LTE Band 2 (PCS)   | Maximum | 25.0                    |
|                    | Nominal | 24.0                    |
| LTE Band 30        | Maximum | 25.0                    |
|                    | Nominal | 24.0                    |
| LTE Band 7         | Maximum | 24.6                    |
|                    | Nominal | 23.6                    |
| LTE Band 41        | Maximum | 25.0                    |
|                    | Nominal | 24.0                    |
| LTE Band 38        | Maximum | 25.0                    |
|                    | Nominal | 24.0                    |

|                                         |                                                                                     |                               |                                                                                       |                                 |
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### 1.3.2 Reduced 2G/3G/4G Output Power – Hotspot Mode Active

| Mode / Band    |         | Burst Average GMSK (dBm) |               |               |               | Burst Average 8-PSK (dBm) |               |               |               |
|----------------|---------|--------------------------|---------------|---------------|---------------|---------------------------|---------------|---------------|---------------|
|                |         | 1 TX<br>Slots            | 2 TX<br>Slots | 3 TX<br>Slots | 4 TX<br>Slots | 1 TX<br>Slots             | 2 TX<br>Slots | 3 TX<br>Slots | 4 TX<br>Slots |
| GPRS/EDGE 1900 | Maximum | 29.5                     | 28.5          | 26.0          | 24.0          | 27.0                      | 25.5          | 23.5          | 22.5          |
|                | Nominal | 28.5                     | 27.5          | 25.0          | 23.0          | 26.0                      | 24.5          | 22.5          | 21.5          |

| Mode / Band            |         | Modulated Average (dBm) |               |               |                      |
|------------------------|---------|-------------------------|---------------|---------------|----------------------|
|                        |         | 3GPP<br>WCDMA           | 3GPP<br>HSDPA | 3GPP<br>HSUPA | 3GPP<br>DC-<br>HSDPA |
| UMTS Band 4 (1750 MHz) | Maximum | 21.0                    | 20.0          | 20.0          | 20.0                 |
|                        | Nominal | 20.0                    | 19.0          | 19.0          | 19.0                 |
| UMTS Band 2 (1900 MHz) | Maximum | 21.5                    | 20.5          | 20.5          | 20.5                 |
|                        | Nominal | 20.5                    | 19.5          | 19.5          | 19.5                 |

| Mode / Band       |         | Modulated Average<br>(dBm) |
|-------------------|---------|----------------------------|
| LTE Band 66 (AWS) | Maximum | 20.5                       |
|                   | Nominal | 19.5                       |
| LTE Band 4 (AWS)  | Maximum | 20.5                       |
|                   | Nominal | 19.5                       |
| LTE Band 25 (PCS) | Maximum | 21.0                       |
|                   | Nominal | 20.0                       |
| LTE Band 2 (PCS)  | Maximum | 21.0                       |
|                   | Nominal | 20.0                       |
| LTE Band 30       | Maximum | 21.0                       |
|                   | Nominal | 20.0                       |
| LTE Band 7        | Maximum | 20.5                       |
|                   | Nominal | 19.5                       |
| LTE Band 41       | Maximum | 23.0                       |
|                   | Nominal | 22.0                       |
| LTE Band 38       | Maximum | 21.0                       |
|                   | Nominal | 20.0                       |

|                                         |                                                                                     |                               |                                                                                       |                                 |
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### 1.3.3 Reduced 2G/3G/4G Output Power – Grip Sensor Active

| Mode / Band        |         | Voice (dBm) | Burst Average GMSK (dBm) |            |            |            | Burst Average 8-PSK (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 |
| GSM/GPRS/EDGE 1900 | Maximum | 28.5        | 28.5                     | 27.5       | 25.0       | 23.0       | 27.0                      | 25.5       | 23.5       | 22.5       |
|                    | Nominal | 27.5        | 27.5                     | 26.5       | 24.0       | 22.0       | 26.0                      | 24.5       | 22.5       | 21.5       |

| Mode / Band            |         | Modulated Average (dBm) |            |            |               |
|------------------------|---------|-------------------------|------------|------------|---------------|
|                        |         | 3GPP WCDMA              | 3GPP HSDPA | 3GPP HSUPA | 3GPP DC-HSDPA |
| UMTS Band 4 (1750 MHz) | Maximum | 20.5                    | 19.5       | 19.5       | 19.5          |
|                        | Nominal | 19.5                    | 18.5       | 18.5       | 18.5          |
| UMTS Band 2 (1900 MHz) | Maximum | 21.0                    | 20.0       | 20.0       | 20.0          |
|                        | Nominal | 20.0                    | 19.0       | 19.0       | 19.0          |

| Mode / Band       |         | Modulated Average (dBm) |
|-------------------|---------|-------------------------|
| LTE Band 66 (AWS) | Maximum | 19.8                    |
|                   | Nominal | 18.8                    |
| LTE Band 4 (AWS)  | Maximum | 19.8                    |
|                   | Nominal | 18.8                    |
| LTE Band 25 (PCS) | Maximum | 20.5                    |
|                   | Nominal | 19.5                    |
| LTE Band 2 (PCS)  | Maximum | 20.5                    |
|                   | Nominal | 19.5                    |
| LTE Band 30       | Maximum | 21.0                    |
|                   | Nominal | 20.0                    |
| LTE Band 7        | Maximum | 19.5                    |
|                   | Nominal | 18.5                    |
| LTE Band 41       | Maximum | 21.5                    |
|                   | Nominal | 20.5                    |
| LTE Band 38       | Maximum | 21.0                    |
|                   | Nominal | 20.0                    |

|                                         |                                                                                     |                               |                                                                                       |                                 |
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### 1.3.4 Reduced 2G/3G/4G Output Power – Earjack Active

| Mode / Band            |         | Modulated Average (dBm) |               |               |                      |
|------------------------|---------|-------------------------|---------------|---------------|----------------------|
|                        |         | 3GPP<br>WCDMA           | 3GPP<br>HSDPA | 3GPP<br>HSUPA | 3GPP<br>DC-<br>HSDPA |
| UMTS Band 4 (1750 MHz) | Maximum | 21.5                    | 20.5          | 20.5          | 20.5                 |
|                        | Nominal | 20.5                    | 19.5          | 19.5          | 19.5                 |
| UMTS Band 2 (1900 MHz) | Maximum | 22.0                    | 21.0          | 21.0          | 21.0                 |
|                        | Nominal | 21.0                    | 20.0          | 20.0          | 20.0                 |

| Mode / Band       |         | Modulated Average<br>(dBm) |
|-------------------|---------|----------------------------|
| LTE Band 66 (AWS) | Maximum | 21.0                       |
|                   | Nominal | 20.0                       |
| LTE Band 4 (AWS)  | Maximum | 21.0                       |
|                   | Nominal | 20.0                       |
| LTE Band 25 (PCS) | Maximum | 21.0                       |
|                   | Nominal | 20.0                       |
| LTE Band 2 (PCS)  | Maximum | 21.0                       |
|                   | Nominal | 20.0                       |
| LTE Band 30       | Maximum | 22.0                       |
|                   | Nominal | 21.0                       |
| LTE Band 7        | Maximum | 22.0                       |
|                   | Nominal | 21.0                       |
| LTE Band 41       | Maximum | 25.0                       |
|                   | Nominal | 24.0                       |
| LTE Band 38       | Maximum | 22.0                       |
|                   | Nominal | 21.0                       |

|                                         |                                                                                     |                               |                                                                                       |                                 |
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### 1.3.5 Maximum Bluetooth and SISO/MIMO WLAN Output Power

| Mode / Band                  |         | Modulated Average - Single Tx Chain Antenna 1 (dBm) |      |      |       |      |      |      |      |                              | Mode / Band            |         |      |      | Modulated Average - Single Tx Chain Antenna 2 (dBm) |      |      |      |      |      |  |  |  |
|------------------------------|---------|-----------------------------------------------------|------|------|-------|------|------|------|------|------------------------------|------------------------|---------|------|------|-----------------------------------------------------|------|------|------|------|------|--|--|--|
|                              | Channel | 1                                                   | 2    | 3    | 4 - 9 | 10   | 11   | 12   | 13   |                              | Channel                | 1       | 2    | 3    | 4 - 9                                               | 10   | 11   | 12   | 13   |      |  |  |  |
| IEEE 802.11b (2.4 GHz)       | Maximum | 20.0                                                |      |      |       |      |      |      | 19.0 | 15.5                         | IEEE 802.11b (2.4 GHz) | Maximum | 20.0 |      |                                                     |      |      |      |      | 18.5 |  |  |  |
|                              | Nominal | 19.0                                                |      |      |       |      |      |      | 18.0 | 14.5                         |                        | Nominal | 19.0 |      |                                                     |      |      |      |      | 17.5 |  |  |  |
| IEEE 802.11g (2.4 GHz)       | Maximum | 16.5                                                | 16.0 | 17.5 | 18.0  | 17.5 | 15.5 | 12.0 | 6.5  | IEEE 802.11g (2.4 GHz)       | Maximum                | 16.5    | 16.0 | 17.5 | 18.0                                                | 17.5 | 15.5 | 12.0 | 6.5  |      |  |  |  |
|                              | Nominal | 15.5                                                | 15.0 | 16.5 | 17.0  | 16.5 | 14.5 | 11.0 | 5.5  |                              | Nominal                | 15.5    | 15.0 | 16.5 | 17.0                                                | 16.5 | 14.5 | 11.0 | 5.5  |      |  |  |  |
| IEEE 802.11n (2.4 GHz)       | Maximum | 16.5                                                | 16.0 | 17.5 | 18.0  | 17.5 | 15.5 | 12.0 | 6.5  | IEEE 802.11n (2.4 GHz)       | Maximum                | 16.5    | 16.0 | 17.5 | 18.0                                                | 17.5 | 15.5 | 12.0 | 6.5  |      |  |  |  |
|                              | Nominal | 15.5                                                | 15.0 | 16.5 | 17.0  | 16.5 | 14.5 | 11.0 | 5.5  |                              | Nominal                | 15.5    | 15.0 | 16.5 | 17.0                                                | 16.5 | 14.5 | 11.0 | 5.5  |      |  |  |  |
| IEEE 802.11ax (SU) (2.4 GHz) | Maximum | 13.5                                                | 14.5 | 16.0 | 17.0  | 15.5 | 14.5 | 14.5 | 10.0 | IEEE 802.11ax (SU) (2.4 GHz) | Maximum                | 17.0    |      |      |                                                     |      |      |      | 16.0 | 13.5 |  |  |  |
|                              | Nominal | 12.5                                                | 13.5 | 15.0 | 16.0  | 14.5 | 13.5 | 13.5 | 9.0  |                              | Nominal                | 16.0    |      |      |                                                     |      |      |      | 15.0 | 12.5 |  |  |  |

| Mode / Band                  |         | Modulated Average - MIMO (dBm) |      |      |       |      |      |      |      |                              |         |      |      |      |       |      |      |      |      |
|------------------------------|---------|--------------------------------|------|------|-------|------|------|------|------|------------------------------|---------|------|------|------|-------|------|------|------|------|
|                              | Channel | 1                              | 2    | 3    | 4 - 9 | 10   | 11   | 12   | 13   |                              | Channel | 1    | 2    | 3    | 4 - 9 | 10   | 11   | 12   | 13   |
| IEEE 802.11g (2.4 GHz)       | Maximum | 19.5                           | 19.0 | 20.5 | 21.0  | 20.5 | 18.5 | 15.0 | 9.5  | IEEE 802.11g (2.4 GHz)       | Maximum | 19.5 | 19.0 | 20.5 | 21.0  | 20.5 | 18.5 | 15.0 | 9.5  |
|                              | Nominal | 18.5                           | 18.0 | 19.5 | 20.0  | 19.5 | 17.5 | 14.0 | 8.5  |                              | Nominal | 18.5 | 18.0 | 19.5 | 20.0  | 19.5 | 17.5 | 14.0 | 8.5  |
| IEEE 802.11n (2.4 GHz)       | Maximum | 19.5                           | 19.0 | 20.5 | 21.0  | 20.5 | 18.5 | 15.0 | 9.5  | IEEE 802.11n (2.4 GHz)       | Maximum | 19.5 | 19.0 | 20.5 | 21.0  | 20.5 | 18.5 | 15.0 | 9.5  |
|                              | Nominal | 18.5                           | 18.0 | 19.5 | 20.0  | 19.5 | 17.5 | 14.0 | 8.5  |                              | Nominal | 18.5 | 18.0 | 19.5 | 20.0  | 19.5 | 17.5 | 14.0 | 8.5  |
| IEEE 802.11ax (SU) (2.4 GHz) | Maximum | 17.0                           |      |      |       |      |      |      | 14.0 | IEEE 802.11ax (SU) (2.4 GHz) | Maximum | 17.0 |      |      |       |      |      |      | 14.0 |
|                              | Nominal | 16.0                           |      |      |       |      |      |      | 13.0 |                              | Nominal | 16.0 |      |      |       |      |      |      | 13.0 |

| Mode / Band                |         | Modulated Average - Single Tx Chain (dBm) |       |    |     |         |     |     |         |     |    |                  |      |      |         |      |      |      |      |                  |      |      |      |      |      |
|----------------------------|---------|-------------------------------------------|-------|----|-----|---------|-----|-----|---------|-----|----|------------------|------|------|---------|------|------|------|------|------------------|------|------|------|------|------|
|                            | Channel | 20 MHz Bandwidth                          |       |    |     |         |     |     |         |     |    | 40 MHz Bandwidth |      |      |         |      |      |      |      | 80 MHz Bandwidth |      |      |      |      |      |
|                            | Channel | 36                                        | 40-60 | 64 | 100 | 104-140 | 144 | 149 | 153-161 | 165 | 38 | 46-54            | 62   | 102  | 110-134 | 142  | 151  | 159  | 42   | 58               | 106  | 122  | 138  | 155  |      |
| IEEE 802.11a (5 GHz)       | Maximum | 18.0                                      |       |    |     |         |     |     |         |     |    |                  |      |      |         |      |      |      |      |                  |      |      |      |      |      |
|                            | Nominal | 17.0                                      |       |    |     |         |     |     |         |     |    |                  |      |      |         |      |      |      |      |                  |      |      |      |      |      |
| IEEE 802.11n (5 GHz)       | Maximum | 18.0                                      |       |    |     |         |     |     |         |     |    | 15.0             | 17.0 | 15.5 | 15.5    | 17.0 | 17.0 | 17.0 | 17.0 |                  |      |      |      |      |      |
|                            | Nominal | 17.0                                      |       |    |     |         |     |     |         |     |    | 14.0             | 16.0 | 14.5 | 14.5    | 16.0 | 16.0 | 16.0 | 16.0 | 16.0             | 12.0 | 12.0 | 13.5 | 15.0 | 15.0 |
| IEEE 802.11ac (5 GHz)      | Maximum | 18.0                                      |       |    |     |         |     |     |         |     |    | 15.0             | 17.0 | 15.5 | 15.5    | 17.0 | 17.0 | 17.0 | 17.0 | 13.0             | 13.0 | 14.5 | 16.0 | 16.0 | 16.0 |
|                            | Nominal | 17.0                                      |       |    |     |         |     |     |         |     |    | 14.0             | 16.0 | 14.5 | 14.5    | 16.0 | 16.0 | 16.0 | 16.0 | 12.0             | 12.0 | 13.5 | 15.0 | 15.0 | 15.0 |
| IEEE 802.11ax (SU) (5 GHz) | Maximum | 16.0                                      |       |    |     |         |     |     |         |     |    | 14.0             |      |      |         |      |      | 13.0 |      |                  |      |      |      |      |      |
|                            | Nominal | 15.0                                      |       |    |     |         |     |     |         |     |    | 13.0             |      |      |         |      |      | 12.0 |      |                  |      |      |      |      |      |

| Mode / Band                |         | Modulated Average - MIMO (dBm) |       |    |     |         |     |     |         |     |    |                  |      |      |         |      |      |      |      |                  |      |      |      |      |      |
|----------------------------|---------|--------------------------------|-------|----|-----|---------|-----|-----|---------|-----|----|------------------|------|------|---------|------|------|------|------|------------------|------|------|------|------|------|
|                            | Channel | 20 MHz Bandwidth               |       |    |     |         |     |     |         |     |    | 40 MHz Bandwidth |      |      |         |      |      |      |      | 80 MHz Bandwidth |      |      |      |      |      |
|                            | Channel | 36                             | 40-60 | 64 | 100 | 104-140 | 144 | 149 | 153-161 | 165 | 38 | 46-54            | 62   | 102  | 110-134 | 142  | 151  | 159  | 42   | 58               | 106  | 122  | 138  | 155  |      |
| IEEE 802.11a (5 GHz)       | Maximum | 21.0                           |       |    |     |         |     |     |         |     |    |                  |      |      |         |      |      |      |      |                  |      |      |      |      |      |
|                            | Nominal | 20.0                           |       |    |     |         |     |     |         |     |    |                  |      |      |         |      |      |      |      |                  |      |      |      |      |      |
| IEEE 802.11n (5 GHz)       | Maximum | 21.0                           |       |    |     |         |     |     |         |     |    | 18.0             | 20.0 | 18.5 | 18.5    | 20.0 | 20.0 | 20.0 | 20.0 |                  |      |      |      |      |      |
|                            | Nominal | 20.0                           |       |    |     |         |     |     |         |     |    | 17.0             | 19.0 | 17.5 | 17.5    | 19.0 | 19.0 | 19.0 | 19.0 |                  |      |      |      |      |      |
| IEEE 802.11ac (5 GHz)      | Maximum | 21.0                           |       |    |     |         |     |     |         |     |    | 18.0             | 20.0 | 18.5 | 18.5    | 20.0 | 20.0 | 20.0 | 20.0 | 13.0             | 13.0 | 17.5 | 19.0 | 19.0 | 19.0 |
|                            | Nominal | 20.0                           |       |    |     |         |     |     |         |     |    | 17.0             | 19.0 | 17.5 | 17.5    | 19.0 | 19.0 | 19.0 | 19.0 | 12.0             | 12.0 | 16.5 | 18.0 | 18.0 | 18.0 |
| IEEE 802.11ax (SU) (5 GHz) | Maximum | 16.0                           |       |    |     |         |     |     |         |     |    | 14.0             |      |      |         |      |      | 13.0 |      |                  |      |      |      |      |      |
|                            | Nominal | 15.0                           |       |    |     |         |     |     |         |     |    | 13.0             |      |      |         |      |      | 12.0 |      |                  |      |      |      |      |      |

| Mode/Band                       |  |  |  | Modulated Average (dBm) |      |
|---------------------------------|--|--|--|-------------------------|------|
| Bluetooth                       |  |  |  | Maximum                 | 16.5 |
|                                 |  |  |  | Nominal                 | 15.5 |
| Bluetooth EDR                   |  |  |  | Maximum                 | 10.5 |
|                                 |  |  |  | Nominal                 | 9.5  |
| Bluetooth LE 2Mbps              |  |  |  | Maximum                 | 7.0  |
|                                 |  |  |  | Nominal                 | 6.0  |
| Bluetooth LE 1Mbps, 125/500kbps |  |  |  | Maximum                 | 5.5  |
|                                 |  |  |  | Nominal                 | 4.5  |

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

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset | Page 8 of 176                                                                         |                                 |

### 1.3.6 Reduced WLAN Output Power

| Mode / Band                  |         | Modulated Average - Single Tx Chain Antenna 1 (dBm) |      |      |       |      |      |      |      |                              | Mode / Band |      |      |      | Modulated Average - Single Tx Chain Antenna 2 (dBm) |   |       |      |      |    |    |  |  |
|------------------------------|---------|-----------------------------------------------------|------|------|-------|------|------|------|------|------------------------------|-------------|------|------|------|-----------------------------------------------------|---|-------|------|------|----|----|--|--|
|                              | Channel | 1                                                   | 2    | 3    | 4 - 9 | 10   | 11   | 12   | 13   |                              | Channel     |      |      | 1    | 2                                                   | 3 | 4 - 9 | 10   | 11   | 12 | 13 |  |  |
| IEEE 802.11b (2.4 GHz)       | Maximum | 17.0                                                |      |      |       |      |      |      | 15.5 | IEEE 802.11b (2.4 GHz)       | Maximum     | 17.0 |      |      |                                                     |   |       |      |      |    |    |  |  |
|                              | Nominal | 16.0                                                |      |      |       |      |      |      | 14.5 |                              | Nominal     | 16.0 |      |      |                                                     |   |       |      |      |    |    |  |  |
| IEEE 802.11g (2.4 GHz)       | Maximum | 16.5                                                | 16.0 | 17.0 |       |      | 15.5 | 12.0 | 6.5  | IEEE 802.11g (2.4 GHz)       | Maximum     | 16.5 | 16.0 | 17.0 |                                                     |   | 15.5  | 12.0 | 6.5  |    |    |  |  |
|                              | Nominal | 15.5                                                | 15.0 | 16.0 |       |      | 14.5 | 11.0 | 5.5  |                              | Nominal     | 15.5 | 15.0 | 16.0 |                                                     |   | 14.5  | 11.0 | 5.5  |    |    |  |  |
| IEEE 802.11n (2.4 GHz)       | Maximum | 16.5                                                | 16.0 | 17.0 |       |      | 15.5 | 12.0 | 6.5  | IEEE 802.11n (2.4 GHz)       | Maximum     | 16.5 | 16.0 | 17.0 |                                                     |   | 15.5  | 12.0 | 6.5  |    |    |  |  |
|                              | Nominal | 15.5                                                | 15.0 | 16.0 |       |      | 14.5 | 11.0 | 5.5  |                              | Nominal     | 15.5 | 15.0 | 16.0 |                                                     |   | 14.5  | 11.0 | 5.5  |    |    |  |  |
| IEEE 802.11ax (SU) (2.4 GHz) | Maximum | 13.5                                                | 14.5 | 16.0 | 17.0  | 15.5 | 14.5 |      | 10.0 | IEEE 802.11ax (SU) (2.4 GHz) | Maximum     | 17.0 |      |      |                                                     |   |       | 16.0 | 13.5 |    |    |  |  |
|                              | Nominal | 12.5                                                | 13.5 | 15.0 | 16.0  | 14.5 | 13.5 |      | 9.0  |                              | Nominal     | 16.0 |      |      |                                                     |   |       | 15.0 | 12.5 |    |    |  |  |

| Mode / Band                  |         | Modulated Average - MIMO (dBm) |      |      |       |      |    |      |     |  |
|------------------------------|---------|--------------------------------|------|------|-------|------|----|------|-----|--|
|                              | Channel | 1                              | 2    | 3    | 4 - 9 | 10   | 11 | 12   | 13  |  |
| IEEE 802.11g (2.4 GHz)       | Maximum | 19.5                           | 19.0 | 20.0 |       | 18.5 |    | 15.0 | 9.5 |  |
|                              | Nominal | 18.5                           | 18.0 | 19.0 |       | 17.5 |    | 14.0 | 8.5 |  |
| IEEE 802.11n (2.4 GHz)       | Maximum | 19.5                           | 19.0 | 20.0 |       | 18.5 |    | 15.0 | 9.5 |  |
|                              | Nominal | 18.5                           | 18.0 | 19.0 |       | 17.5 |    | 14.0 | 8.5 |  |
| IEEE 802.11ax (SU) (2.4 GHz) | Maximum | 17.0                           |      |      |       |      |    | 14.0 |     |  |
|                              | Nominal | 16.0                           |      |      |       |      |    | 13.0 |     |  |

| Mode / Band                |         | Modulated Average - Single Tx Chain (dBm) |       |    |     |         |     |                  |         |     |      |       |    |                  |         |     |     |     |    |      |      |     |     |     |
|----------------------------|---------|-------------------------------------------|-------|----|-----|---------|-----|------------------|---------|-----|------|-------|----|------------------|---------|-----|-----|-----|----|------|------|-----|-----|-----|
|                            |         | 20 MHz Bandwidth                          |       |    |     |         |     | 40 MHz Bandwidth |         |     |      |       |    | 80 MHz Bandwidth |         |     |     |     |    |      |      |     |     |     |
|                            | Channel | 36                                        | 40-60 | 64 | 100 | 104-140 | 144 | 149              | 153-161 | 165 | 38   | 46-54 | 62 | 102              | 110-134 | 142 | 151 | 159 | 42 | 58   | 106  | 122 | 138 | 155 |
| IEEE 802.11a (5 GHz)       | Maximum | 14.0                                      |       |    |     |         |     |                  |         |     |      |       |    |                  |         |     |     |     |    |      |      |     |     |     |
|                            | Nominal | 13.0                                      |       |    |     |         |     |                  |         |     |      |       |    |                  |         |     |     |     |    |      |      |     |     |     |
| IEEE 802.11n (5 GHz)       | Maximum | 14.0                                      |       |    |     |         |     |                  |         |     | 14.0 |       |    |                  |         |     |     |     |    |      |      |     |     |     |
|                            | Nominal | 13.0                                      |       |    |     |         |     |                  |         |     | 13.0 |       |    |                  |         |     |     |     |    |      |      |     |     |     |
| IEEE 802.11ac (5 GHz)      | Maximum | 14.0                                      |       |    |     |         |     |                  |         |     | 14.0 |       |    |                  |         |     |     |     |    | 13.0 | 14.0 |     |     |     |
|                            | Nominal | 13.0                                      |       |    |     |         |     |                  |         |     | 13.0 |       |    |                  |         |     |     |     |    | 12.0 | 13.0 |     |     |     |
| IEEE 802.11ax (SU) (5 GHz) | Maximum | 14.0                                      |       |    |     |         |     |                  |         |     | 14.0 |       |    |                  |         |     |     |     |    | 13.0 |      |     |     |     |
|                            | Nominal | 13.0                                      |       |    |     |         |     |                  |         |     | 13.0 |       |    |                  |         |     |     |     |    | 12.0 |      |     |     |     |

| Mode / Band                |         | Modulated Average - MIMO (dBm) |       |    |     |         |     |                  |         |     |      |       |    |                  |         |     |     |     |    |      |      |     |     |     |
|----------------------------|---------|--------------------------------|-------|----|-----|---------|-----|------------------|---------|-----|------|-------|----|------------------|---------|-----|-----|-----|----|------|------|-----|-----|-----|
|                            |         | 20 MHz Bandwidth               |       |    |     |         |     | 40 MHz Bandwidth |         |     |      |       |    | 80 MHz Bandwidth |         |     |     |     |    |      |      |     |     |     |
|                            | Channel | 36                             | 40-60 | 64 | 100 | 104-140 | 144 | 149              | 153-161 | 165 | 38   | 46-54 | 62 | 102              | 110-134 | 142 | 151 | 159 | 42 | 58   | 106  | 122 | 138 | 155 |
| IEEE 802.11a (5 GHz)       | Maximum | 17.0                           |       |    |     |         |     |                  |         |     |      |       |    |                  |         |     |     |     |    |      |      |     |     |     |
|                            | Nominal | 16.0                           |       |    |     |         |     |                  |         |     |      |       |    |                  |         |     |     |     |    |      |      |     |     |     |
| IEEE 802.11n (5 GHz)       | Maximum | 17.0                           |       |    |     |         |     |                  |         |     | 17.0 |       |    |                  |         |     |     |     |    |      |      |     |     |     |
|                            | Nominal | 16.0                           |       |    |     |         |     |                  |         |     | 16.0 |       |    |                  |         |     |     |     |    |      |      |     |     |     |
| IEEE 802.11ac (5 GHz)      | Maximum | 17.0                           |       |    |     |         |     |                  |         |     | 17.0 |       |    |                  |         |     |     |     |    | 13.0 | 17.0 |     |     |     |
|                            | Nominal | 16.0                           |       |    |     |         |     |                  |         |     | 16.0 |       |    |                  |         |     |     |     |    | 12.0 | 16.0 |     |     |     |
| IEEE 802.11ax (SU) (5 GHz) | Maximum | 16.0                           |       |    |     |         |     |                  |         |     | 14.0 |       |    |                  |         |     |     |     |    | 13.0 |      |     |     |     |
|                            | Nominal | 15.0                           |       |    |     |         |     |                  |         |     | 13.0 |       |    |                  |         |     |     |     |    | 12.0 |      |     |     |     |

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

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 9 of 176                   |

### 1.3.7 Maximum Output Power During Conditions with Simultaneous 2.4 GHz WLAN and 5 GHz WLAN

| Mode / Band               |         | Modulated Average - Antenna 1 (dBm) |                                     |      |           |         |      |      |                                     |                                     |           | Modulated Average - Antenna 2 (dBm) |       |         |                                |      |           |                                |       |      |          | Modulated Average - MIMO (dBm) |      |      |      |     |  |  |  |  |  |  |  |
|---------------------------|---------|-------------------------------------|-------------------------------------|------|-----------|---------|------|------|-------------------------------------|-------------------------------------|-----------|-------------------------------------|-------|---------|--------------------------------|------|-----------|--------------------------------|-------|------|----------|--------------------------------|------|------|------|-----|--|--|--|--|--|--|--|
| Channel                   |         | 1                                   | 2                                   | 3    | 4 - 9     | 10      | 11   | 12   | 13                                  | 1                                   | 2         | 3                                   | 4 - 9 | 10      | 11                             | 12   | 13        | 1                              | 2     | 3    | 4 - 9    | 10                             | 11   | 12   | 13   |     |  |  |  |  |  |  |  |
| IEEE 802.11b (2.4 GHz)    | Maximum | 17.0                                |                                     |      |           |         |      |      |                                     | 15.5                                |           |                                     |       |         |                                |      |           | 17.0                           |       |      |          |                                |      |      |      | N/A |  |  |  |  |  |  |  |
|                           | Nominal | 16.0                                |                                     |      |           |         |      |      |                                     | 14.5                                |           |                                     |       |         |                                |      |           | 16.0                           |       |      |          |                                |      |      |      | N/A |  |  |  |  |  |  |  |
| IEEE 802.11g (2.4 GHz)    | Maximum | 16.5                                | 16.0                                | 17.0 |           |         | 15.5 | 12.0 | 6.5                                 | 16.5                                | 16.0      | 17.0                                |       |         | 15.5                           | 12.0 | 6.5       | 19.5                           | 19.0  | 20.0 |          |                                | 18.5 | 15.0 | 9.5  |     |  |  |  |  |  |  |  |
|                           | Nominal | 15.5                                | 15.0                                | 16.0 |           |         | 14.5 | 11.0 | 5.5                                 | 15.5                                | 15.0      | 16.0                                |       |         | 14.5                           | 11.0 | 5.5       | 18.5                           | 18.0  | 19.0 |          |                                | 17.5 | 14.0 | 8.5  |     |  |  |  |  |  |  |  |
| IEEE 802.11n (2.4 GHz)    | Maximum | 16.5                                | 16.0                                | 17.0 |           |         | 15.5 | 12.0 | 6.5                                 | 16.5                                | 16.0      | 17.0                                |       |         | 15.5                           | 12.0 | 6.5       | 19.5                           | 19.0  | 20.0 |          |                                | 18.5 | 15.0 | 9.5  |     |  |  |  |  |  |  |  |
|                           | Nominal | 15.5                                | 15.0                                | 16.0 |           |         | 14.5 | 11.0 | 5.5                                 | 15.5                                | 15.0      | 16.0                                |       |         | 14.5                           | 11.0 | 5.5       | 18.5                           | 18.0  | 19.0 |          |                                | 17.5 | 14.0 | 8.5  |     |  |  |  |  |  |  |  |
| IEEE 802.11ax (SU)        | Maximum | 13.5                                | 14.5                                | 16.0 | 17.0      | 15.5    | 14.5 |      |                                     | 10.0                                | 17.0      |                                     |       |         |                                |      | 16.0      | 13.5                           | 17.0  |      |          |                                |      |      | 14.0 |     |  |  |  |  |  |  |  |
|                           | Nominal | 12.5                                | 13.5                                | 15.0 | 16.0      | 14.5    | 13.5 |      |                                     | 9.0                                 | 16.0      |                                     |       |         |                                |      | 15.0      | 12.5                           | 16.0  |      |          |                                |      |      | 13.0 |     |  |  |  |  |  |  |  |
| Mode / Band               |         | Modulated Average - Antenna 1 (dBm) |                                     |      |           |         |      |      |                                     | Modulated Average - Antenna 2 (dBm) |           |                                     |       |         |                                |      |           | Modulated Average - MIMO (dBm) |       |      |          |                                |      |      |      |     |  |  |  |  |  |  |  |
|                           |         | 20 MHz Bandwidth                    |                                     |      |           |         |      |      |                                     | 20 MHz Bandwidth                    |           |                                     |       |         |                                |      |           | 20 MHz Bandwidth               |       |      |          |                                |      |      |      |     |  |  |  |  |  |  |  |
|                           | Channel | 36 -165                             |                                     |      |           |         |      |      |                                     | 36 -165                             |           |                                     |       |         |                                |      |           | 36                             | 40-60 | 64   | 100 -165 |                                |      |      |      |     |  |  |  |  |  |  |  |
| IEEE 802.11a (5 GHz)      | Maximum | 14.0                                |                                     |      |           |         |      |      |                                     | 14.0                                |           |                                     |       |         |                                |      |           | 17.0                           |       |      |          |                                |      |      |      |     |  |  |  |  |  |  |  |
|                           | Nominal | 13.0                                |                                     |      |           |         |      |      |                                     | 13.0                                |           |                                     |       |         |                                |      |           | 16.0                           |       |      |          |                                |      |      |      |     |  |  |  |  |  |  |  |
| IEEE 802.11n (5 GHz)      | Maximum | 14.0                                |                                     |      |           |         |      |      |                                     | 14.0                                |           |                                     |       |         |                                |      |           | 17.0                           |       |      |          |                                |      |      |      |     |  |  |  |  |  |  |  |
|                           | Nominal | 13.0                                |                                     |      |           |         |      |      |                                     | 13.0                                |           |                                     |       |         |                                |      |           | 16.0                           |       |      |          |                                |      |      |      |     |  |  |  |  |  |  |  |
| IEEE 802.11ac (5 GHz)     | Maximum | 14.0                                |                                     |      |           |         |      |      |                                     | 14.0                                |           |                                     |       |         |                                |      |           | 17.0                           |       |      |          |                                |      |      |      |     |  |  |  |  |  |  |  |
|                           | Nominal | 13.0                                |                                     |      |           |         |      |      |                                     | 13.0                                |           |                                     |       |         |                                |      |           | 16.0                           |       |      |          |                                |      |      |      |     |  |  |  |  |  |  |  |
| IEEE 802.11ax(SU) (5 GHz) | Maximum | 14.0                                |                                     |      |           |         |      |      |                                     | 14.0                                |           |                                     |       |         |                                |      |           | 16.0                           |       |      |          |                                |      |      |      |     |  |  |  |  |  |  |  |
|                           | Nominal | 13.0                                |                                     |      |           |         |      |      |                                     | 13.0                                |           |                                     |       |         |                                |      |           | 15.0                           |       |      |          |                                |      |      |      |     |  |  |  |  |  |  |  |
| Mode / Band               |         | Modulated Average - Antenna 1 (dBm) |                                     |      |           |         |      |      |                                     | Modulated Average - Antenna 2 (dBm) |           |                                     |       |         |                                |      |           | Modulated Average - MIMO (dBm) |       |      |          |                                |      |      |      |     |  |  |  |  |  |  |  |
|                           |         | 40 MHz Bandwidth                    |                                     |      |           |         |      |      |                                     | 40 MHz Bandwidth                    |           |                                     |       |         |                                |      |           | 40 MHz Bandwidth               |       |      |          |                                |      |      |      |     |  |  |  |  |  |  |  |
|                           | Channel | 38                                  | 46-54                               | 62   | 102       | 110-159 |      |      |                                     | 38                                  | 46-54     | 62                                  | 102   | 110-159 |                                |      |           | 38                             | 46-54 | 62   | 102      | 110-159                        |      |      |      |     |  |  |  |  |  |  |  |
| IEEE 802.11n (5 GHz)      | Maximum | 14.0                                |                                     |      |           |         |      |      |                                     | 14.0                                |           |                                     |       |         |                                |      |           | 17.0                           |       |      |          |                                |      |      |      |     |  |  |  |  |  |  |  |
|                           | Nominal | 13.0                                |                                     |      |           |         |      |      |                                     | 13.0                                |           |                                     |       |         |                                |      |           | 16.0                           |       |      |          |                                |      |      |      |     |  |  |  |  |  |  |  |
| IEEE 802.11ac (5 GHz)     | Maximum | 14.0                                |                                     |      |           |         |      |      |                                     | 14.0                                |           |                                     |       |         |                                |      |           | 17.0                           |       |      |          |                                |      |      |      |     |  |  |  |  |  |  |  |
|                           | Nominal | 13.0                                |                                     |      |           |         |      |      |                                     | 13.0                                |           |                                     |       |         |                                |      |           | 16.0                           |       |      |          |                                |      |      |      |     |  |  |  |  |  |  |  |
| IEEE 802.11ax(SU) (5 GHz) | Maximum | 14.0                                |                                     |      |           |         |      |      |                                     | 14.0                                |           |                                     |       |         |                                |      |           | 14.0                           |       |      |          |                                |      |      |      |     |  |  |  |  |  |  |  |
|                           | Nominal | 13.0                                |                                     |      |           |         |      |      |                                     | 13.0                                |           |                                     |       |         |                                |      |           | 13.0                           |       |      |          |                                |      |      |      |     |  |  |  |  |  |  |  |
| Mode / Band               |         |                                     | Modulated Average - Antenna 1 (dBm) |      |           |         |      |      | Modulated Average - Antenna 2 (dBm) |                                     |           |                                     |       |         | Modulated Average - MIMO (dBm) |      |           |                                |       |      |          |                                |      |      |      |     |  |  |  |  |  |  |  |
|                           |         |                                     | 80 MHz Bandwidth                    |      |           |         |      |      | 80 MHz Bandwidth                    |                                     |           |                                     |       |         | 80 MHz Bandwidth               |      |           |                                |       |      |          |                                |      |      |      |     |  |  |  |  |  |  |  |
|                           | Channel | 42                                  | 58                                  | 106  | 122 - 155 |         |      | 42   | 58                                  | 106                                 | 122 - 155 |                                     |       | 42      | 58                             | 106  | 122 - 155 |                                |       |      |          |                                |      |      |      |     |  |  |  |  |  |  |  |
| IEEE 802.11ac (5 GHz)     | Maximum | 13.0                                | 13.0                                | 14.0 |           |         | 13.0 |      |                                     | 13.0                                | 13.0      | 14.0                                |       |         | 13.0                           | 13.0 | 17.0      |                                |       |      |          |                                |      |      |      |     |  |  |  |  |  |  |  |
|                           | Nominal | 12.0                                | 12.0                                | 13.0 |           |         | 12.0 |      |                                     | 12.0                                | 12.0      | 13.0                                |       |         | 12.0                           | 12.0 | 16.0      |                                |       |      |          |                                |      |      |      |     |  |  |  |  |  |  |  |
| IEEE 802.11ax(SU) (5 GHz) | Maximum | 13.0                                |                                     |      |           |         |      | 13.0 |                                     |                                     |           |                                     |       | 13.0    |                                |      |           |                                |       |      |          |                                |      |      |      |     |  |  |  |  |  |  |  |
|                           | Nominal | 12.0                                |                                     |      |           |         |      | 12.0 |                                     |                                     |           |                                     |       | 12.0    |                                |      |           |                                |       |      |          |                                |      |      |      |     |  |  |  |  |  |  |  |

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

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset | Page 10 of 176                                                                        |                                 |

### 1.3.8 Reduced Output Power During Conditions with Simultaneous 2.4 GHz WLAN and 5 GHz WLAN

| Mode / Band               |         | Modulated Average - Antenna 1 (dBm) |       |                                     |           |         |    |      |      |                                     |           | Modulated Average - Antenna 2 (dBm) |       |      |      |                                |           |      |      |     |       | Modulated Average - MIMO (dBm) |       |    |          |         |      |  |     |  |  |
|---------------------------|---------|-------------------------------------|-------|-------------------------------------|-----------|---------|----|------|------|-------------------------------------|-----------|-------------------------------------|-------|------|------|--------------------------------|-----------|------|------|-----|-------|--------------------------------|-------|----|----------|---------|------|--|-----|--|--|
| Channel                   |         | 1                                   | 2     | 3                                   | 4 - 9     | 10      | 11 | 12   | 13   | 1                                   | 2         | 3                                   | 4 - 9 | 10   | 11   | 12                             | 13        | 1    | 2    | 3   | 4 - 9 | 10                             | 11    | 12 | 13       |         |      |  |     |  |  |
| IEEE 802.11b (2.4 GHz)    | Maximum | 14.0                                |       |                                     |           |         |    |      |      |                                     |           | 14.0                                |       |      |      |                                |           |      |      |     |       | N/A                            |       |    |          |         |      |  |     |  |  |
|                           | Nominal | 13.0                                |       |                                     |           |         |    |      |      |                                     |           | 13.0                                |       |      |      |                                |           |      |      |     |       | N/A                            |       |    |          |         |      |  |     |  |  |
| IEEE 802.11g (2.4 GHz)    | Maximum | 14.0                                |       |                                     |           |         |    |      | 12.0 |                                     | 6.5       |                                     | 14.0  |      |      |                                |           | 12.0 |      | 6.5 |       | 17.0                           |       |    |          |         | 15.0 |  | 9.5 |  |  |
|                           | Nominal | 13.0                                |       |                                     |           |         |    |      | 11.0 |                                     | 5.5       |                                     | 13.0  |      |      |                                |           | 11.0 |      | 5.5 |       | 16.0                           |       |    |          |         | 14.0 |  | 8.5 |  |  |
| IEEE 802.11n (2.4 GHz)    | Maximum | 14.0                                |       |                                     |           |         |    |      | 12.0 |                                     | 6.5       |                                     | 14.0  |      |      |                                |           | 12.0 |      | 6.5 |       | 17.0                           |       |    |          |         | 15.0 |  | 9.5 |  |  |
|                           | Nominal | 13.0                                |       |                                     |           |         |    |      | 11.0 |                                     | 5.5       |                                     | 13.0  |      |      |                                |           | 11.0 |      | 5.5 |       | 16.0                           |       |    |          |         | 14.0 |  | 8.5 |  |  |
| IEEE 802.11ax (SU)        | Maximum | 13.5                                | 14.0  |                                     |           |         |    |      |      | 10.0                                |           | 14.0                                |       |      |      |                                | 13.5      |      | 16.0 |     | 17.0  |                                |       |    |          | 14.0    |      |  |     |  |  |
|                           | Nominal | 12.5                                | 13.0  |                                     |           |         |    |      |      | 9.0                                 |           | 13.0                                |       |      |      |                                | 12.5      |      | 15.0 |     | 16.0  |                                |       |    |          | 13.0    |      |  |     |  |  |
| Mode / Band               |         | Modulated Average - Antenna 1 (dBm) |       |                                     |           |         |    |      |      |                                     |           | Modulated Average - Antenna 2 (dBm) |       |      |      |                                |           |      |      |     |       | Modulated Average - MIMO (dBm) |       |    |          |         |      |  |     |  |  |
|                           |         | 20 MHz Bandwidth                    |       |                                     |           |         |    |      |      |                                     |           | 20 MHz Bandwidth                    |       |      |      |                                |           |      |      |     |       | 20 MHz Bandwidth               |       |    |          |         |      |  |     |  |  |
|                           | Channel | 36 -165                             |       |                                     |           |         |    |      |      |                                     |           | 36 -165                             |       |      |      |                                |           |      |      |     |       | 36                             | 40-60 | 64 | 100 -165 |         |      |  |     |  |  |
| IEEE 802.11a (5 GHz)      | Maximum | 14.0                                |       |                                     |           |         |    |      |      |                                     |           | 14.0                                |       |      |      |                                |           |      |      |     |       | 17.0                           |       |    |          |         |      |  |     |  |  |
|                           | Nominal | 13.0                                |       |                                     |           |         |    |      |      |                                     |           | 13.0                                |       |      |      |                                |           |      |      |     |       | 16.0                           |       |    |          |         |      |  |     |  |  |
| IEEE 802.11n (5 GHz)      | Maximum | 14.0                                |       |                                     |           |         |    |      |      |                                     |           | 14.0                                |       |      |      |                                |           |      |      |     |       | 17.0                           |       |    |          |         |      |  |     |  |  |
|                           | Nominal | 13.0                                |       |                                     |           |         |    |      |      |                                     |           | 13.0                                |       |      |      |                                |           |      |      |     |       | 16.0                           |       |    |          |         |      |  |     |  |  |
| IEEE 802.11ac (5 GHz)     | Maximum | 14.0                                |       |                                     |           |         |    |      |      |                                     |           | 14.0                                |       |      |      |                                |           |      |      |     |       | 17.0                           |       |    |          |         |      |  |     |  |  |
|                           | Nominal | 13.0                                |       |                                     |           |         |    |      |      |                                     |           | 13.0                                |       |      |      |                                |           |      |      |     |       | 16.0                           |       |    |          |         |      |  |     |  |  |
| IEEE 802.11ax(SU) (5 GHz) | Maximum | 14.0                                |       |                                     |           |         |    |      |      |                                     |           | 14.0                                |       |      |      |                                |           |      |      |     |       | 16.0                           |       |    |          |         |      |  |     |  |  |
|                           | Nominal | 13.0                                |       |                                     |           |         |    |      |      |                                     |           | 13.0                                |       |      |      |                                |           |      |      |     |       | 15.0                           |       |    |          |         |      |  |     |  |  |
| Mode / Band               |         | Modulated Average - Antenna 1 (dBm) |       |                                     |           |         |    |      |      |                                     |           | Modulated Average - Antenna 2 (dBm) |       |      |      |                                |           |      |      |     |       | Modulated Average - MIMO (dBm) |       |    |          |         |      |  |     |  |  |
|                           |         | 40 MHz Bandwidth                    |       |                                     |           |         |    |      |      |                                     |           | 40 MHz Bandwidth                    |       |      |      |                                |           |      |      |     |       | 40 MHz Bandwidth               |       |    |          |         |      |  |     |  |  |
|                           | Channel | 38                                  | 46-54 | 62                                  | 102       | 110-159 |    |      |      |                                     |           | 38                                  | 46-54 | 62   | 102  | 110-159                        |           |      |      |     |       | 38                             | 46-54 | 62 | 102      | 110-159 |      |  |     |  |  |
| IEEE 802.11n (5 GHz)      | Maximum | 14.0                                |       |                                     |           |         |    |      |      |                                     |           | 14.0                                |       |      |      |                                |           |      |      |     |       | 17.0                           |       |    |          |         |      |  |     |  |  |
|                           | Nominal | 13.0                                |       |                                     |           |         |    |      |      |                                     |           | 13.0                                |       |      |      |                                |           |      |      |     |       | 16.0                           |       |    |          |         |      |  |     |  |  |
| IEEE 802.11ac (5 GHz)     | Maximum | 14.0                                |       |                                     |           |         |    |      |      |                                     |           | 14.0                                |       |      |      |                                |           |      |      |     |       | 17.0                           |       |    |          |         |      |  |     |  |  |
|                           | Nominal | 13.0                                |       |                                     |           |         |    |      |      |                                     |           | 13.0                                |       |      |      |                                |           |      |      |     |       | 16.0                           |       |    |          |         |      |  |     |  |  |
| IEEE 802.11ax(SU) (5 GHz) | Maximum | 14.0                                |       |                                     |           |         |    |      |      |                                     |           | 14.0                                |       |      |      |                                |           |      |      |     |       | 14.0                           |       |    |          |         |      |  |     |  |  |
|                           | Nominal | 13.0                                |       |                                     |           |         |    |      |      |                                     |           | 13.0                                |       |      |      |                                |           |      |      |     |       | 13.0                           |       |    |          |         |      |  |     |  |  |
| Mode / Band               |         |                                     |       | Modulated Average - Antenna 1 (dBm) |           |         |    |      |      | Modulated Average - Antenna 2 (dBm) |           |                                     |       |      |      | Modulated Average - MIMO (dBm) |           |      |      |     |       |                                |       |    |          |         |      |  |     |  |  |
|                           |         |                                     |       | 80 MHz Bandwidth                    |           |         |    |      |      | 80 MHz Bandwidth                    |           |                                     |       |      |      | 80 MHz Bandwidth               |           |      |      |     |       |                                |       |    |          |         |      |  |     |  |  |
|                           | Channel | 42                                  | 58    | 106                                 | 122 - 155 |         |    | 42   | 58   | 106                                 | 122 - 155 |                                     |       | 42   | 58   | 106                            | 122 - 155 |      |      |     |       |                                |       |    |          |         |      |  |     |  |  |
| IEEE 802.11ac (5 GHz)     | Maximum | 13.0                                | 13.0  | 14.0                                |           |         |    | 13.0 | 13.0 | 14.0                                |           |                                     |       | 13.0 | 13.0 | 17.0                           |           |      |      |     |       |                                |       |    |          |         |      |  |     |  |  |
|                           | Nominal | 12.0                                | 12.0  | 13.0                                |           |         |    | 12.0 | 12.0 | 13.0                                |           |                                     |       | 12.0 | 12.0 | 16.0                           |           |      |      |     |       |                                |       |    |          |         |      |  |     |  |  |
| IEEE 802.11ax(SU) (5 GHz) | Maximum | 13.0                                |       |                                     |           |         |    | 13.0 |      |                                     |           |                                     |       | 13.0 |      |                                |           |      |      |     |       |                                |       |    |          |         |      |  |     |  |  |
|                           | Nominal | 12.0                                |       |                                     |           |         |    | 12.0 |      |                                     |           |                                     |       | 12.0 |      |                                |           |      |      |     |       |                                |       |    |          |         |      |  |     |  |  |

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

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 11 of 176                  |

## 1.4 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 F. Since the diagonal dimension of this device is >160mm and <200mm in closed configuration, it is considered a "Phablet". When it is in open configuration, it is considered a "UMPC Mini-tablet". Exact antenna dimensions and separation distances are shown in the Technical Descriptions in the FCC filing.

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

| Mode               | Back | Front | Top | Bottom | Right | Left |
|--------------------|------|-------|-----|--------|-------|------|
| GPRS 850           | Yes  | Yes   | No  | Yes    | Yes   | No   |
| GPRS 1900          | Yes  | Yes   | No  | Yes    | Yes   | Yes  |
| UMTS 850           | Yes  | Yes   | No  | Yes    | Yes   | No   |
| UMTS 1750          | Yes  | Yes   | No  | Yes    | Yes   | Yes  |
| UMTS 1900          | Yes  | Yes   | No  | Yes    | Yes   | 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 26 (Cell) | Yes  | Yes   | No  | Yes    | Yes   | No   |
| LTE Band 66 (AWS)  | Yes  | Yes   | No  | Yes    | Yes   | Yes  |
| LTE Band 25 (PCS)  | Yes  | Yes   | No  | Yes    | Yes   | Yes  |
| LTE Band 30        | Yes  | Yes   | No  | Yes    | Yes   | Yes  |
| LTE Band 7         | Yes  | Yes   | No  | Yes    | Yes   | Yes  |
| LTE Band 41        | Yes  | Yes   | No  | Yes    | Yes   | Yes  |
| 2.4 GHz WLAN Ant 1 | Yes  | Yes   | Yes | No     | Yes   | No   |
| 2.4 GHz WLAN Ant 2 | Yes  | Yes   | Yes | No     | No    | Yes  |
| 5 GHz WLAN Ant 1   | Yes  | Yes   | Yes | No     | Yes   | No   |
| 5 GHz WLAN Ant 2   | Yes  | Yes   | Yes | No     | No    | Yes  |
| Bluetooth          | Yes  | Yes   | Yes | No     | Yes   | No   |

**Table 1-2**  
**Device Edges/Sides for SAR Testing UMPC (Body and Extremity)**

| Mode               | Back | Front | Top | Bottom | Right | Left |
|--------------------|------|-------|-----|--------|-------|------|
| GPRS 850           | Yes  | Yes   | No  | Yes    | Yes   | No   |
| GPRS 1900          | Yes  | Yes   | No  | Yes    | Yes   | No   |
| UMTS 850           | Yes  | Yes   | No  | Yes    | Yes   | No   |
| UMTS 1750          | Yes  | Yes   | No  | Yes    | Yes   | No   |
| UMTS 1900          | Yes  | Yes   | No  | Yes    | Yes   | No   |
| 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 26 (Cell) | Yes  | Yes   | No  | Yes    | Yes   | No   |
| LTE Band 66 (AWS)  | Yes  | Yes   | No  | Yes    | Yes   | No   |
| LTE Band 25 (PCS)  | Yes  | Yes   | No  | Yes    | Yes   | No   |
| LTE Band 30        | Yes  | Yes   | No  | Yes    | Yes   | No   |
| LTE Band 7         | Yes  | Yes   | No  | Yes    | Yes   | No   |
| LTE Band 41        | Yes  | Yes   | No  | Yes    | Yes   | No   |
| 2.4 GHz WLAN Ant 1 | Yes  | Yes   | Yes | No     | Yes   | No   |
| 2.4 GHz WLAN Ant 2 | Yes  | Yes   | Yes | No     | No    | No   |
| 2.4 GHz WLAN MIMO  | Yes  | Yes   | Yes | No     | Yes   | No   |
| 5 GHz WLAN Ant 1   | Yes  | Yes   | Yes | No     | Yes   | No   |
| 5 GHz WLAN Ant 2   | Yes  | Yes   | Yes | No     | No    | No   |
| 5 GHz WLAN MIMO    | Yes  | Yes   | Yes | No     | Yes   | No   |
| Bluetooth          | Yes  | Yes   | Yes | No     | Yes   | No   |

Note: Particular DUT edges were not required to be evaluated for wireless router SAR, phablet SAR or UMPC mini-tablet SAR if the edges were greater than 2.5 cm from the transmitting antenna according to FCC KDB Publication 941225 D06v02r01 Section III, FCC KDB Publication 941225 D07v01r02 and FCC KDB Publication 648474 D04v01r03. The distances between the transmit antennas and the edges of the device are included in the filing. When wireless router mode is enabled, U-NII-1, U-NII-2A, U-NII-2C operations are disabled.

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 12 of 176                  |

## 1.5 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 F.

## 1.6 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 1-3**  
**Simultaneous Transmission Scenarios**

| No. | Capable Transmit Configuration                    | Head             | Body-Worn Accessory | Wireless Router  | Phablet | Mini Tablet | Notes                                          |
|-----|---------------------------------------------------|------------------|---------------------|------------------|---------|-------------|------------------------------------------------|
| 1   | GSM voice + 2.4 GHz Wi-Fi                         | Yes              | Yes                 | N/A              | Yes     | Yes         |                                                |
| 2   | GSM voice + 5 GHz Wi-Fi                           | Yes              | Yes                 | N/A              | Yes     | Yes         |                                                |
| 3   | GSM voice + 2.4 GHz Bluetooth                     | Yes <sup>^</sup> | Yes                 | N/A              | Yes     | Yes         | <sup>^</sup> Bluetooth Tethering is considered |
| 4   | GSM voice + 2.4 GHz Bluetooth + 5 GHz Wi-Fi       | Yes <sup>^</sup> | Yes                 | N/A              | Yes     | Yes         | <sup>^</sup> Bluetooth Tethering is considered |
| 5   | GSM voice + 2.4 GHz Wi-Fi MIMO                    | Yes              | Yes                 | N/A              | Yes     | Yes         |                                                |
| 6   | GSM voice + 5 GHz Wi-Fi MIMO                      | Yes              | Yes                 | N/A              | Yes     | Yes         |                                                |
| 7   | GSM voice + 2.4 GHz Wi-Fi + 5 GHz Wi-Fi           | Yes              | Yes                 | N/A              | Yes     | Yes         |                                                |
| 8   | GSM voice + 2.4 GHz Wi-Fi MIMO + 5 GHz Wi-Fi MIMO | Yes              | Yes                 | N/A              | Yes     | Yes         |                                                |
| 9   | GSM voice + 2.4 GHz Bluetooth + 5 GHz Wi-Fi MIMO  | Yes <sup>^</sup> | Yes                 | N/A              | Yes     | Yes         | <sup>^</sup> Bluetooth Tethering is considered |
| 10  | UMTS + 2.4 GHz Wi-Fi                              | Yes              | Yes                 | Yes              | Yes     | Yes         |                                                |
| 11  | UMTS + 5 GHz Wi-Fi                                | Yes              | Yes                 | Yes              | Yes     | Yes         |                                                |
| 12  | UMTS + 2.4 GHz Bluetooth                          | Yes <sup>^</sup> | Yes                 | Yes <sup>^</sup> | Yes     | Yes         | <sup>^</sup> Bluetooth Tethering is considered |
| 13  | UMTS + 2.4 GHz Bluetooth + 5 GHz Wi-Fi            | Yes <sup>^</sup> | Yes                 | Yes <sup>^</sup> | Yes     | Yes         | <sup>^</sup> Bluetooth Tethering is considered |
| 14  | UMTS + 2.4 GHz Wi-Fi MIMO                         | Yes              | Yes                 | Yes              | Yes     | Yes         |                                                |
| 15  | UMTS + 5 GHz Wi-Fi MIMO                           | Yes              | Yes                 | Yes              | Yes     | Yes         |                                                |
| 16  | UMTS + 2.4 GHz Wi-Fi + 5 GHz Wi-Fi                | Yes              | Yes                 | Yes              | Yes     | Yes         |                                                |
| 17  | UMTS + 2.4 GHz Wi-Fi MIMO + 5 GHz Wi-Fi MIMO      | Yes              | Yes                 | Yes              | Yes     | Yes         |                                                |
| 18  | UMTS + 2.4 GHz Bluetooth + 5 GHz Wi-Fi MIMO       | Yes <sup>^</sup> | Yes                 | Yes <sup>^</sup> | Yes     | Yes         | <sup>^</sup> Bluetooth Tethering is considered |
| 19  | LTE + 2.4 GHz Wi-Fi                               | Yes              | Yes                 | Yes              | Yes     | Yes         |                                                |
| 20  | LTE + 5 GHz Wi-Fi                                 | Yes              | Yes                 | Yes              | Yes     | Yes         |                                                |
| 21  | LTE + 2.4 GHz Bluetooth                           | Yes <sup>^</sup> | Yes                 | Yes <sup>^</sup> | Yes     | Yes         | <sup>^</sup> Bluetooth Tethering is considered |
| 22  | LTE + 2.4 GHz Bluetooth + 5 GHz Wi-Fi             | Yes <sup>^</sup> | Yes                 | Yes <sup>^</sup> | Yes     | Yes         | <sup>^</sup> Bluetooth Tethering is considered |
| 23  | LTE + 2.4 GHz Wi-Fi MIMO                          | Yes              | Yes                 | Yes              | Yes     | Yes         |                                                |
| 24  | LTE + 5 GHz Wi-Fi MIMO                            | Yes              | Yes                 | Yes              | Yes     | Yes         |                                                |
| 25  | LTE + 2.4 GHz Wi-Fi + 5 GHz Wi-Fi                 | Yes              | Yes                 | Yes              | Yes     | Yes         |                                                |
| 26  | LTE + 2.4 GHz Wi-Fi MIMO + 5 GHz Wi-Fi MIMO       | Yes              | Yes                 | Yes              | Yes     | Yes         |                                                |
| 27  | LTE + 2.4 GHz Bluetooth + 5 GHz Wi-Fi MIMO        | Yes <sup>^</sup> | Yes                 | Yes <sup>^</sup> | Yes     | Yes         | <sup>^</sup> Bluetooth Tethering is considered |
| 28  | GPRS/EDGE + 2.4 GHz Wi-Fi                         | N/A              | N/A                 | Yes              | Yes     | Yes         |                                                |
| 29  | GPRS/EDGE + 5 GHz Wi-Fi                           | N/A              | N/A                 | Yes              | Yes     | Yes         |                                                |
| 30  | GPRS/EDGE + 2.4 GHz Bluetooth                     | N/A              | N/A                 | Yes <sup>^</sup> | Yes     | Yes         | <sup>^</sup> Bluetooth Tethering is considered |
| 31  | GPRS/EDGE + 2.4 GHz Bluetooth + 5 GHz Wi-Fi       | N/A              | N/A                 | Yes <sup>^</sup> | Yes     | Yes         | <sup>^</sup> Bluetooth Tethering is considered |
| 32  | GPRS/EDGE + 2.4 GHz Wi-Fi MIMO                    | N/A              | N/A                 | Yes              | Yes     | Yes         |                                                |
| 33  | GPRS/EDGE + 5 GHz Wi-Fi MIMO                      | N/A              | N/A                 | Yes              | Yes     | Yes         |                                                |
| 34  | GPRS/EDGE + 2.4 GHz Wi-Fi + 5 GHz Wi-Fi           | N/A              | N/A                 | Yes              | Yes     | Yes         |                                                |
| 35  | GPRS/EDGE + 2.4 GHz Wi-Fi MIMO + 5 GHz Wi-Fi MIMO | N/A              | N/A                 | Yes              | Yes     | Yes         |                                                |
| 36  | GPRS/EDGE + 2.4 GHz Bluetooth + 5 GHz Wi-Fi MIMO  | N/A              | N/A                 | Yes <sup>^</sup> | Yes     | Yes         | <sup>^</sup> Bluetooth Tethering is considered |

- 2.4 GHz WLAN and 2.4 GHz Bluetooth share the same antenna path and cannot transmit simultaneously.
- All licensed modes share the same antenna path and cannot transmit simultaneously.
- When the user utilizes multiple services in UMTS 3G mode it uses multi-Radio Access Bearer or multi-RAB. The power control is based on a physical control channel (Dedicated Physical Control Channel [DPCCH]) and power control will be adjusted to meet the needs of both services. Therefore, the UMTS+WLAN scenario also represents the UMTS Voice/DATA + WLAN Hotspot scenario.
- Per the manufacturer, WIFI Direct is not expected to be used in conjunction with a held-to-ear or body-worn accessory voice call. Therefore, there are no simultaneous transmission scenarios involving WIFI direct beyond that listed in the above table.

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 13 of 176                  |

5. 5 GHz Wireless Router is only supported for the U-NII-3 by S/W, therefore U-NII-1, U-NII2A, and U-NII2C were not evaluated for wireless router conditions.
6. This device supports 2x2 MIMO Tx for WLAN 802.11a/g/n/ac/ax. 802.11a/g/n/ac/ax supports CDD and STBC and 802.11n/ac/ax additionally supports SDM. Each WLAN antenna can transmit independently or together when operating with MIMO.
7. This device supports VOLTE.
8. This device supports VoWIFI.
9. This device supports Bluetooth Tethering.

## 1.7 Miscellaneous SAR Test Considerations

### (A) WIFI/BT

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

This device supports channel 1-13 for 2.4 GHz WLAN. However, due to the reduced output power for channels 12 and 13, channels 1, 6, and 11 were considered for SAR testing per KDB 248227 D01v02r02.

Since Wireless Router operations are not allowed by the chipset firmware using U-NII-1, U-NII-2A & U-NII-2C WIFI, only 2.4 GHz 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 Guidance, SAR testing was not required for 802.11ax when applying the initial test configuration procedures of KDB 248227, with 802.11ax considered a higher order 802.11 mode. The 802.11ax RU SAR testing exclusion analysis can be found in Appendix I.

This device supports IEEE 802.11ax with the following features:

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

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

### (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.

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 14 of 176                  |

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.

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 downlink only LTE CA operations was not needed since the maximum average output power in downlink only 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 H.

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 64QAM on the uplink 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  $\leq 1.45$ W/kg, per Section 5.2.4 of FCC KDB Publication 941225 D05v02r05.

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

This device supports LTE Carrier Aggregation (CA) for LTE Band 66 and LTE B7 with two component carriers in the uplink. SAR Measurements and conducted powers were evaluated per 2017 Fall TCB Workshop Notes.

## 1.8 Guidance Applied

- IEEE 1528-2013
- FCC KDB Publication 941225 D01v03r01, D05v02r04, D05Av01r02, D06v02r01, D07v01r02 (2G/3G/4G Hotspot and UMPC Mini-Tablet)
- 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)
- April 2018 TCB Workshop Notes (LTE Carrier Aggregation)

## 1.9 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.

|                                         |                                                                                                                                                                                                        |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  <b>SAR EVALUATION REPORT</b>  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                                                                                                                                       | DUT Type:<br>Portable Handset   |
|                                         |                                                                                                                                                                                                        | Page 15 of 176                  |

| LTE Information                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |                 |                |
|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------|----------------|
| Form Factor                                                                                                       | Portable Handset                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                 |                |
| Frequency Range of each LTE transmission band                                                                     | LTE Band 71 (665.5 - 695.5 MHz)                                                                                                                                                                                                                                                                                                                                                                                                                              |                |                 |                |
|                                                                                                                   | LTE Band 12 (699.7 - 715.3 MHz)                                                                                                                                                                                                                                                                                                                                                                                                                              |                |                 |                |
|                                                                                                                   | LTE Band 13 (779.5 - 784.5 MHz)                                                                                                                                                                                                                                                                                                                                                                                                                              |                |                 |                |
|                                                                                                                   | LTE Band 14 (780.5 - 795.5 MHz)                                                                                                                                                                                                                                                                                                                                                                                                                              |                |                 |                |
|                                                                                                                   | LTE Band 26 (Cell) (814.7 - 848.3 MHz)                                                                                                                                                                                                                                                                                                                                                                                                                       |                |                 |                |
|                                                                                                                   | LTE Band 5 (Cell) (824.7 - 848.3 MHz)                                                                                                                                                                                                                                                                                                                                                                                                                        |                |                 |                |
|                                                                                                                   | LTE Band 66 (AWS) (1710.7 - 1779.3 MHz)                                                                                                                                                                                                                                                                                                                                                                                                                      |                |                 |                |
|                                                                                                                   | LTE Band 4 (AWS) (1710.7 - 1754.3 MHz)                                                                                                                                                                                                                                                                                                                                                                                                                       |                |                 |                |
|                                                                                                                   | LTE Band 25 (PCS) (1850.7 - 1914.3 MHz)                                                                                                                                                                                                                                                                                                                                                                                                                      |                |                 |                |
|                                                                                                                   | LTE Band 2 (PCS) (1850.7 - 1909.3 MHz)                                                                                                                                                                                                                                                                                                                                                                                                                       |                |                 |                |
|                                                                                                                   | LTE Band 30 (2307.5 - 2312.5 MHz)                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                 |                |
|                                                                                                                   | LTE Band 7 (2502.5 - 2567.5 MHz)                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                 |                |
|                                                                                                                   | LTE Band 41 (2498.5 - 2687.5 MHz)                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                 |                |
|                                                                                                                   | LTE Band 38 (2572.5 - 2617.5 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 13: 5 MHz, 10 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |                 |                |
|                                                                                                                   | LTE Band 14: 5 MHz, 10 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |                 |                |
|                                                                                                                   | LTE Band 26 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz                                                                                                                                                                                                                                                                                                                                                                                                    |                |                 |                |
|                                                                                                                   | LTE Band 5 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz                                                                                                                                                                                                                                                                                                                                                                                                     |                |                 |                |
|                                                                                                                   | LTE Band 66 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz                                                                                                                                                                                                                                                                                                                                                                                             |                |                 |                |
|                                                                                                                   | LTE Band 4 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz                                                                                                                                                                                                                                                                                                                                                                                              |                |                 |                |
|                                                                                                                   | LTE Band 25 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz                                                                                                                                                                                                                                                                                                                                                                                             |                |                 |                |
|                                                                                                                   | LTE Band 2 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz                                                                                                                                                                                                                                                                                                                                                                                              |                |                 |                |
|                                                                                                                   | LTE Band 30: 5 MHz, 10 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |                 |                |
|                                                                                                                   | LTE Band 7: 5 MHz, 10 MHz, 15 MHz, 20 MHz                                                                                                                                                                                                                                                                                                                                                                                                                    |                |                 |                |
|                                                                                                                   | LTE Band 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz                                                                                                                                                                                                                                                                                                                                                                                                                   |                |                 |                |
|                                                                                                                   | LTE Band 38: 5 MHz, 10 MHz, 15 MHz, 20 MHz                                                                                                                                                                                                                                                                                                                                                                                                                   |                |                 |                |
| Channel Numbers and Frequencies (MHz)                                                                             | Low                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Low-Mid        | Mid             | Mid-High       |
|                                                                                                                   | High                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                |                 |                |
| LTE Band 71: 5 MHz                                                                                                | 665.5 (133147)                                                                                                                                                                                                                                                                                                                                                                                                                                               | 690.5 (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 13: 5 MHz                                                                                                | 779.5 (23205)                                                                                                                                                                                                                                                                                                                                                                                                                                                | 782 (23230)    | 784.5 (23255)   |                |
| LTE Band 13: 10 MHz                                                                                               | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 782 (23230)    | N/A             |                |
| LTE Band 14: 5 MHz                                                                                                | 790.5 (23305)                                                                                                                                                                                                                                                                                                                                                                                                                                                | 793 (23330)    | 795.5 (23355)   |                |
| LTE Band 14: 10 MHz                                                                                               | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 793 (23330)    | N/A             |                |
| LTE Band 26 (Cell): 1.4 MHz                                                                                       | 814.7 (26697)                                                                                                                                                                                                                                                                                                                                                                                                                                                | 831.5 (26865)  | 848.3 (27033)   |                |
| LTE Band 26 (Cell): 3 MHz                                                                                         | 815.5 (26705)                                                                                                                                                                                                                                                                                                                                                                                                                                                | 831.5 (26865)  | 847.5 (27025)   |                |
| LTE Band 26 (Cell): 5 MHz                                                                                         | 816.5 (26715)                                                                                                                                                                                                                                                                                                                                                                                                                                                | 831.5 (26865)  | 846.5 (27015)   |                |
| LTE Band 26 (Cell): 10 MHz                                                                                        | 819 (26740)                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 831.5 (26865)  | 844 (26990)     |                |
| LTE Band 26 (Cell): 15 MHz                                                                                        | 821.5 (26765)                                                                                                                                                                                                                                                                                                                                                                                                                                                | 831.5 (26865)  | 841.5 (26965)   |                |
| LTE Band 5 (Cell): 1.4 MHz                                                                                        | 824.7 (26047)                                                                                                                                                                                                                                                                                                                                                                                                                                                | 836.5 (26525)  | 848.3 (26043)   |                |
| LTE Band 5 (Cell): 3 MHz                                                                                          | 825.5 (26045)                                                                                                                                                                                                                                                                                                                                                                                                                                                | 836.5 (26525)  | 847.5 (26035)   |                |
| LTE Band 5 (Cell): 5 MHz                                                                                          | 826.5 (26045)                                                                                                                                                                                                                                                                                                                                                                                                                                                | 836.5 (26525)  | 846.5 (26025)   |                |
| LTE Band 5 (Cell): 10 MHz                                                                                         | 829 (26040)                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 836.5 (26525)  | 844 (26000)     |                |
| LTE Band 66 (AWS): 1.4 MHz                                                                                        | 1710.7 (13197)                                                                                                                                                                                                                                                                                                                                                                                                                                               | 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 25 (PCS): 1.4 MHz                                                                                        | 1850.7 (26047)                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1882.5 (26365) | 1914.3 (26683)  |                |
| LTE Band 25 (PCS): 3 MHz                                                                                          | 1851.5 (26055)                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1882.5 (26365) | 1913.5 (26675)  |                |
| LTE Band 25 (PCS): 5 MHz                                                                                          | 1852.5 (26065)                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1882.5 (26365) | 1912.5 (26665)  |                |
| LTE Band 25 (PCS): 10 MHz                                                                                         | 1855 (26090)                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1882.5 (26365) | 1910 (26640)    |                |
| LTE Band 25 (PCS): 15 MHz                                                                                         | 1857.5 (26115)                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1882.5 (26365) | 1907.5 (26615)  |                |
| LTE Band 25 (PCS): 20 MHz                                                                                         | 1860 (26140)                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1882.5 (26365) | 1905 (26590)    |                |
| LTE Band 2 (PCS): 1.4 MHz                                                                                         | 1850.7 (18607)                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1880 (18900)   | 1909.3 (19193)  |                |
| LTE Band 2 (PCS): 3 MHz                                                                                           | 1851.5 (18615)                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1880 (18900)   | 1908.5 (19185)  |                |
| LTE Band 2 (PCS): 5 MHz                                                                                           | 1852.5 (18625)                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1880 (18900)   | 1907.5 (19175)  |                |
| LTE Band 2 (PCS): 10 MHz                                                                                          | 1855 (18650)                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1880 (18900)   | 1905 (19150)    |                |
| LTE Band 2 (PCS): 15 MHz                                                                                          | 1857.5 (18675)                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1880 (18900)   | 1902.5 (19125)  |                |
| LTE Band 2 (PCS): 20 MHz                                                                                          | 1860 (18700)                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1880 (18900)   | 1900 (19100)    |                |
| LTE Band 30: 5 MHz                                                                                                | 2307.5 (27785)                                                                                                                                                                                                                                                                                                                                                                                                                                               | 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) |
| LTE Band 41: 10 MHz                                                                                               | 2506 (39750)                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2549.5 (40185) | 2593 (40620)    | 2636.5 (41055) |
| LTE Band 41: 15 MHz                                                                                               | 2506 (39750)                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2549.5 (40185) | 2593 (40620)    | 2636.5 (41055) |
| LTE Band 41: 20 MHz                                                                                               | 2506 (39750)                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2549.5 (40185) | 2593 (40620)    | 2636.5 (41055) |
| LTE Band 38: 5 MHz                                                                                                | 2572.5 (37775)                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2595 (38000)   | 2617.5 (38225)  |                |
| LTE Band 38: 10 MHz                                                                                               | 2575 (37800)                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2595 (38000)   | 2615 (38200)    |                |
| LTE Band 38: 15 MHz                                                                                               | 2577.5 (37825)                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2595 (38000)   | 2612.5 (38175)  |                |
| LTE Band 38: 20 MHz                                                                                               | 2580 (37850)                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2595 (38000)   | 2610 (38150)    |                |
| UE Category                                                                                                       | DL UE Cat 18 (QPSK, 16QAM, 64QAM, 256QAM); UL UE Cat 13 (QPSK, 16QAM, 64QAM)                                                                                                                                                                                                                                                                                                                                                                                 |                |                 |                |
| Modulations Supported in UL                                                                                       | QPSK, 16QAM, 64QAM                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |                 |                |
| LTE MPR Permanently implemented per 3GPP TS 36.101 section 6.2.3-6.2.57 (manufacturer attestation to be provided) | YES                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                |                 |                |
| A-MPR (Additional MPR) disabled for SAR                                                                           | 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 14. It supports carrier aggregation as shown in Section 9 and Appendix H. 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 14 Features are not supported: Relay, HeNet, Enhanced eICIC, WiFi Offloading, MDH, eMBMS, Cross-Carrier Scheduling, Enhanced SC-FDMA. |                |                 |                |

|                                         |                                                                                     |                               |                                                                                       |                                 |
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| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 16 of 176                  |

### 3 INTRODUCTION

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

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

#### 3.1 SAR Definition

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

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

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

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

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

where:

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

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

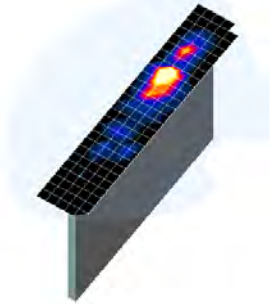
|                                         |                                                                                     |                               |                                                                                       |                                 |
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| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 17 of 176                  |

## 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>( $\Delta x_{\text{zoom}}, \Delta y_{\text{zoom}}$ ) | Maximum Zoom Scan Spatial Resolution (mm)   |                               |                                      | Minimum Zoom Scan Volume (mm)<br>(x,y,z) |
|-----------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------|-------------------------------|--------------------------------------|------------------------------------------|
|           |                                                                                           |                                                                                           | Uniform Grid<br>$\Delta z_{\text{zoom}}(n)$ | Graded Grid                   |                                      |                                          |
|           |                                                                                           |                                                                                           |                                             | $\Delta z_{\text{zoom}}(1)^*$ | $\Delta z_{\text{zoom}}(n>1)^*$      |                                          |
| ≤ 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                                     |

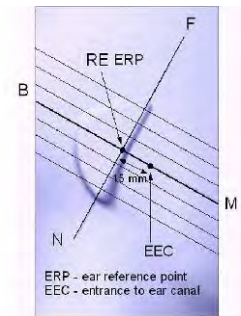
\*Also compliant to IEEE 1528-2013 Table 6

|                                         |                                                                                     |                               |  |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|--|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |  |                                                                                       | Page 18 of 176                  |

## 5 DEFINITION OF REFERENCE POINTS

### 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].



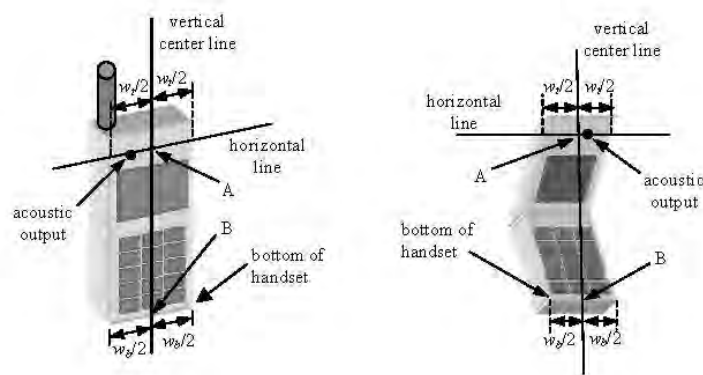
**Figure 5-1**  
Close-Up Side view  
of ERP

### 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

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 19 of 176                  |

## 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

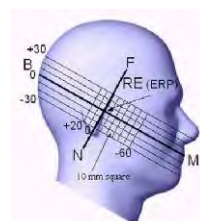
With the test device aligned in the “Cheek Position”:

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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| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                                                                           | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 20 of 176                         |



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



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

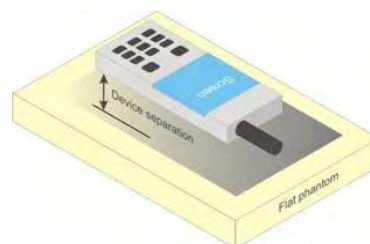
## 6.4 SAR Evaluations near the Mouth/Jaw Regions of the SAM Phantom

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

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

## 6.5 Body-Worn Accessory Configurations

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



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

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

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 21 of 176                  |

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

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

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

## 6.6 Extremity Exposure Configurations

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

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

## 6.7 Wireless Router Configurations

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

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

## 6.8 Phablet Configurations

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

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 22 of 176                  |

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

## 6.9 Proximity Sensor Considerations

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

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

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

## 6.10 UMPC Mini-Tablet Configurations

Small hand-held tablets and devices of similar form factors that are designed primarily for interactive hand-held use next to or near the body of users require body SAR and extremity SAR evaluation. This type of mini-tablets is normally optimized for mobile web access and multimedia use. UMPC test procedures are applicable to devices with a display and overall diagonal dimension  $\leq 20$  cm. Devices are to be setup according to KDB publication 941225 D07v01r02 requirements and are configured with maximum output power during SAR assessment for a worst case SAR evaluation.

Per KDB Publication 941225 D07v01r02, UMPC mini-tablet devices must be tested on all surfaces and edges with an antenna  $\leq 25$  mm from that surface or edge. A test separation distance of 10 mm may be considered for 1g SAR, with the addition of 10g SAR measurement at 0 mm test separation distance for all measured 1g (10mm) SAR configurations to address hand exposure.

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 23 of 176                  |

## 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) |
| Peak Spatial Average SAR<br>Head                             | 1.6                                                                       | 8.0                                                               |
| Whole Body SAR                                               | 0.08                                                                      | 0.4                                                               |
| Peak Spatial Average SAR<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.

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 24 of 176                  |

## 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 UMTS

#### 8.4.1 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.

|                                                |                                                                                                                                   |                                      |                                                                                       |                                        |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMF900F                             |  <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                                                                           | <b>DUT Type:</b><br>Portable Handset | Page 25 of 176                                                                        |                                        |

#### 8.4.2 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 “1’s”. 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.

#### 8.4.3 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.

#### 8.4.4 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.

#### 8.4.5 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.

#### 8.4.6 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.

### 8.5 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).

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 26 of 176                  |

### 8.5.1 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.

### 8.5.2 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.

### 8.5.3 A-MPR

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

### 8.5.4 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.

### 8.5.5 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.

### 8.5.6 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

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|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMF900F                             |  <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                                                                           | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 27 of 176                         |

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 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.

## 8.6 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.

### 8.6.1 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.

### 8.6.2 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.

### 8.6.3 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.

### 8.6.4 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 UMPC, procedures for initial test position can be applied. Using the transmission

|                                                |                                                                                     |                                      |                                                                                       |                                        |
|------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMF900F                             |  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                             | <b>DUT Type:</b><br>Portable Handset | Page 28 of 176                                                                        |                                        |

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.

### 8.6.5 2.4 GHz SAR Test Requirements

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

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

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

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

When the same maximum output power was specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration with the largest channel bandwidth, lowest order modulation and lowest data rate. When the maximum output power of a channel is the same for equivalent OFDM configurations; for example, 802.11a, 802.11n and 802.11ac or 802.11g and 802.11n with the same channel bandwidth, modulation and data rate etc., the lower order 802.11 mode i.e., 802.11a, then 802.11n and 802.11ac or 802.11g then 802.11n, is used for SAR measurement. Per FCC Guidance, 802.11ax was considered a higher order 802.11 mode when compared to a/b/g/n/ac to apply KDB Publication 248227 Guidance. 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.

### 8.6.7 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

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 29 of 176                  |

802.11 mode is considered for SAR measurements (See Section 8.6.6). When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

### 8.6.8 Subsequent Test Configuration Procedures

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

### 8.6.9 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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|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset | Page 30 of 176                                                                        |                                 |

## 9 RF CONDUCTED POWERS

### 9.1 GSM Conducted Powers

**Table 9-1**  
**Maximum Conducted Power**

| Maximum Burst-Averaged Output Power |         |                       |                       |                      |                      |                      |                      |                      |                      |                      |
|-------------------------------------|---------|-----------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                                     |         | Voice                 | GPRS/EDGE Data (GMSK) |                      |                      |                      | EDGE Data (8-PSK)    |                      |                      |                      |
| Band                                | Channel | GSM [dBm] CS (1 Slot) | GPRS [dBm] 1 Tx Slot  | GPRS [dBm] 2 Tx Slot | GPRS [dBm] 3 Tx Slot | GPRS [dBm] 4 Tx Slot | EDGE [dBm] 1 Tx Slot | EDGE [dBm] 2 Tx Slot | EDGE [dBm] 3 Tx Slot | EDGE [dBm] 4 Tx Slot |
| GSM 850                             | 128     | 32.98                 | 32.83                 | 32.15                | <b>29.65</b>         | 27.63                | 26.90                | 25.45                | 23.20                | 22.02                |
|                                     | 190     | 33.06                 | 32.88                 | 31.86                | <b>29.88</b>         | 28.21                | 27.08                | 25.60                | 23.50                | 22.58                |
|                                     | 251     | 33.38                 | 33.08                 | 31.81                | <b>29.93</b>         | 27.54                | 27.15                | 25.45                | 23.40                | 22.14                |
| GSM 1900                            | 512     | 29.94                 | 29.91                 | <b>28.82</b>         | 26.88                | 24.83                | 25.82                | 24.50                | 22.37                | 21.31                |
|                                     | 661     | 29.82                 | 29.79                 | <b>28.80</b>         | 26.75                | 24.62                | 25.61                | 24.40                | 22.40                | 20.98                |
|                                     | 810     | 29.73                 | 29.72                 | <b>28.72</b>         | 26.71                | 24.38                | 25.55                | 24.05                | 22.31                | 20.76                |

| Calculated Maximum Frame-Averaged Output Power |         |                       |                       |                      |                      |                      |                      |                      |                      |                      |
|------------------------------------------------|---------|-----------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                                                |         | Voice                 | GPRS/EDGE Data (GMSK) |                      |                      |                      | EDGE Data (8-PSK)    |                      |                      |                      |
| Band                                           | Channel | GSM [dBm] CS (1 Slot) | GPRS [dBm] 1 Tx Slot  | GPRS [dBm] 2 Tx Slot | GPRS [dBm] 3 Tx Slot | GPRS [dBm] 4 Tx Slot | EDGE [dBm] 1 Tx Slot | EDGE [dBm] 2 Tx Slot | EDGE [dBm] 3 Tx Slot | EDGE [dBm] 4 Tx Slot |
| GSM 850                                        | 128     | 23.95                 | 23.80                 | 26.13                | <b>25.39</b>         | 24.62                | 17.87                | 19.43                | 18.94                | 19.01                |
|                                                | 190     | 24.03                 | 23.85                 | 25.84                | <b>25.62</b>         | 25.20                | 18.05                | 19.58                | 19.24                | 19.57                |
|                                                | 251     | 24.35                 | 24.05                 | 25.79                | <b>25.67</b>         | 24.53                | 18.12                | 19.43                | 19.14                | 19.13                |
| GSM 1900                                       | 512     | 20.91                 | 20.88                 | <b>22.80</b>         | 22.62                | 21.82                | 16.79                | 18.48                | 18.11                | 18.30                |
|                                                | 661     | 20.79                 | 20.76                 | <b>22.78</b>         | 22.49                | 21.61                | 16.58                | 18.38                | 18.14                | 17.97                |
|                                                | 810     | 20.70                 | 20.69                 | <b>22.70</b>         | 22.45                | 21.37                | 16.52                | 18.03                | 18.05                | 17.75                |

|          |                     |       |       |              |              |       |       |       |       |       |
|----------|---------------------|-------|-------|--------------|--------------|-------|-------|-------|-------|-------|
| GSM 850  | Frame Avg. Targets: | 23.97 | 23.97 | 25.98        | <b>25.74</b> | 24.49 | 17.97 | 19.48 | 19.24 | 19.49 |
| GSM 1900 |                     | 21.47 | 21.47 | <b>23.48</b> | 22.74        | 21.99 | 16.97 | 18.48 | 18.24 | 18.49 |

|                                         |                                                                                     |                               |                       |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|-----------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  |                               | SAR EVALUATION REPORT |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                       |                                                                                       | Page 31 of 176                  |

**Table 9-2**  
**Reduced Conducted Powers- Hotspot Mode Active**

| Maximum Burst-Averaged Output Power |         |                            |                            |                            |                            |                            |                            |                            |                            |
|-------------------------------------|---------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Band                                | Channel | GPRS/EDGE Data<br>(GMSK)   |                            |                            |                            | EDGE Data<br>(8-PSK)       |                            |                            |                            |
|                                     |         | GPRS<br>[dBm]<br>1 Tx Slot | GPRS<br>[dBm]<br>2 Tx Slot | GPRS<br>[dBm]<br>3 Tx Slot | GPRS<br>[dBm]<br>4 Tx Slot | EDGE<br>[dBm]<br>1 Tx Slot | EDGE<br>[dBm]<br>2 Tx Slot | EDGE<br>[dBm]<br>3 Tx Slot | EDGE<br>[dBm]<br>4 Tx Slot |
| GSM 1900                            | 512     | 28.13                      | <b>27.13</b>               | 25.59                      | 23.45                      | 26.12                      | 24.42                      | 22.26                      | 21.20                      |
|                                     | 661     | 28.07                      | <b>27.08</b>               | 25.40                      | 22.63                      | 25.83                      | 24.33                      | 22.26                      | 20.91                      |
|                                     | 810     | 27.64                      | <b>26.91</b>               | 24.97                      | 22.09                      | 25.40                      | 23.93                      | 22.33                      | 20.68                      |

| Calculated Maximum Frame-Averaged Output Power |         |                            |                            |                            |                            |                            |                            |                            |                            |
|------------------------------------------------|---------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Band                                           | Channel | GPRS/EDGE Data<br>(GMSK)   |                            |                            |                            | EDGE Data<br>(8-PSK)       |                            |                            |                            |
|                                                |         | GPRS<br>[dBm]<br>1 Tx Slot | GPRS<br>[dBm]<br>2 Tx Slot | GPRS<br>[dBm]<br>3 Tx Slot | GPRS<br>[dBm]<br>4 Tx Slot | EDGE<br>[dBm]<br>1 Tx Slot | EDGE<br>[dBm]<br>2 Tx Slot | EDGE<br>[dBm]<br>3 Tx Slot | EDGE<br>[dBm]<br>4 Tx Slot |
| GSM 1900                                       | 512     | 19.10                      | <b>21.11</b>               | 21.33                      | 20.44                      | 17.09                      | 18.40                      | 18.00                      | 18.19                      |
|                                                | 661     | 19.04                      | <b>21.06</b>               | 21.14                      | 19.62                      | 16.80                      | 18.31                      | 18.00                      | 17.90                      |
|                                                | 810     | 18.61                      | <b>20.89</b>               | 20.71                      | 19.08                      | 16.37                      | 17.91                      | 18.07                      | 17.67                      |

|          |                        |       |              |       |       |       |       |       |       |
|----------|------------------------|-------|--------------|-------|-------|-------|-------|-------|-------|
| GSM 1900 | Frame<br>Avg. Targets: | 19.47 | <b>21.48</b> | 20.74 | 19.99 | 16.97 | 18.48 | 18.24 | 18.49 |
|----------|------------------------|-------|--------------|-------|-------|-------|-------|-------|-------|

|                                         |                                                                                                                                   |                               |  |                                                                                       |                                 |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | <b>SAR EVALUATION REPORT</b>  |  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                                                                  | DUT Type:<br>Portable Handset |  |                                                                                       | Page 32 of 176                  |

**Table 9-3**  
**Reduced Conducted Powers- Grip Sensor Active**

| Maximum Burst-Averaged Output Power |         |                       |                       |                      |                      |                      |                      |                      |                      |                      |
|-------------------------------------|---------|-----------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                                     |         | Voice                 | GPRS/EDGE Data (GMSK) |                      |                      |                      | EDGE Data (8-PSK)    |                      |                      |                      |
| Band                                | Channel | GSM [dBm] CS (1 Slot) | GPRS [dBm] 1 Tx Slot  | GPRS [dBm] 2 Tx Slot | GPRS [dBm] 3 Tx Slot | GPRS [dBm] 4 Tx Slot | EDGE [dBm] 1 Tx Slot | EDGE [dBm] 2 Tx Slot | EDGE [dBm] 3 Tx Slot | EDGE [dBm] 4 Tx Slot |
| <b>GSM 1900</b>                     | 512     | 27.23                 | 27.40                 | 26.23                | 24.78                | 22.35                | 25.98                | 24.20                | 22.14                | 21.25                |
|                                     | 661     | 27.22                 | 27.24                 | 26.33                | 24.57                | 21.74                | 25.65                | 24.10                | 22.37                | 20.99                |
|                                     | 810     | 27.12                 | 26.89                 | 26.17                | 24.08                | 22.06                | 25.85                | 23.82                | 22.16                | 20.63                |

| Calculated Maximum Frame-Averaged Output Power |         |                       |                       |                      |                      |                      |                      |                      |                      |                      |
|------------------------------------------------|---------|-----------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                                                |         | Voice                 | GPRS/EDGE Data (GMSK) |                      |                      |                      | EDGE Data (8-PSK)    |                      |                      |                      |
| Band                                           | Channel | GSM [dBm] CS (1 Slot) | GPRS [dBm] 1 Tx Slot  | GPRS [dBm] 2 Tx Slot | GPRS [dBm] 3 Tx Slot | GPRS [dBm] 4 Tx Slot | EDGE [dBm] 1 Tx Slot | EDGE [dBm] 2 Tx Slot | EDGE [dBm] 3 Tx Slot | EDGE [dBm] 4 Tx Slot |
| <b>GSM 1900</b>                                | 512     | 18.20                 | 18.37                 | 20.21                | 20.52                | 19.34                | 16.95                | 18.18                | 17.88                | 18.24                |
|                                                | 661     | 18.19                 | 18.21                 | 20.31                | 20.31                | 18.73                | 16.62                | 18.08                | 18.11                | 17.98                |
|                                                | 810     | 18.09                 | 17.86                 | 20.15                | 19.82                | 19.05                | 16.82                | 17.80                | 17.90                | 17.62                |

|                 |                           |       |       |       |       |       |       |       |       |       |
|-----------------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>GSM 1900</b> | <b>Frame Avg.Targets:</b> | 18.47 | 18.47 | 20.48 | 19.74 | 18.99 | 16.97 | 18.48 | 18.24 | 18.49 |
|-----------------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

Note:

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

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



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

|                                                |                                                                                     |                                      |                                                                                       |                                        |
|------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMF900F                             |  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                             | <b>DUT Type:</b><br>Portable Handset | Page 33 of 176                                                                        |                                        |

## 9.2 UMTS Conducted Powers

**Table 9-4**  
**Maximum Conducted Power**

| 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       | 24.17               | 24.19 | 24.21 | 24.14          | 24.17 | 24.08 | 24.35          | 24.32 | 24.30 | -             |
| 99                   |          | 12.2 kbps AMR       | 24.25               | 24.25 | 24.28 | 24.12          | 24.15 | 24.19 | 24.24          | 24.07 | 24.05 | -             |
| 6                    | HSDPA    | Subtest 1           | 23.13               | 23.28 | 23.42 | 23.40          | 23.49 | 23.23 | 23.24          | 23.26 | 23.14 | 0             |
| 6                    |          | Subtest 2           | 23.16               | 23.30 | 23.44 | 23.41          | 23.48 | 23.22 | 23.29          | 23.29 | 23.14 | 0             |
| 6                    |          | Subtest 3           | 22.64               | 22.81 | 22.94 | 22.90          | 23.00 | 22.75 | 22.80          | 22.78 | 22.62 | 0.5           |
| 6                    |          | Subtest 4           | 22.63               | 22.78 | 22.94 | 22.91          | 22.98 | 22.72 | 22.76          | 22.75 | 22.61 | 0.5           |
| 6                    | HSUPA    | Subtest 1           | 23.16               | 23.31 | 23.49 | 23.43          | 23.48 | 23.32 | 23.30          | 23.32 | 23.09 | 0             |
| 6                    |          | Subtest 2           | 21.16               | 21.30 | 21.45 | 21.45          | 21.47 | 21.33 | 21.49          | 21.50 | 21.39 | 2             |
| 6                    |          | Subtest 3           | 22.14               | 22.32 | 22.42 | 22.41          | 22.50 | 22.37 | 22.31          | 22.42 | 22.13 | 1             |
| 6                    |          | Subtest 4           | 21.13               | 21.29 | 21.44 | 21.50          | 21.44 | 21.39 | 21.29          | 21.32 | 21.11 | 2             |
| 6                    |          | Subtest 5           | 23.15               | 23.33 | 23.48 | 23.48          | 23.47 | 23.41 | 23.35          | 23.31 | 23.13 | 0             |
| 8                    | DC-HSDPA | Subtest 1           | 23.11               | 23.30 | 23.44 | 23.33          | 23.42 | 23.16 | 23.22          | 23.23 | 23.11 | 0             |
| 8                    |          | Subtest 2           | 23.09               | 23.29 | 23.42 | 23.35          | 23.42 | 23.16 | 23.28          | 23.25 | 23.13 | 0             |
| 8                    |          | Subtest 3           | 22.95               | 22.80 | 22.90 | 22.86          | 22.96 | 22.71 | 22.81          | 22.80 | 22.63 | 0.5           |
| 8                    |          | Subtest 4           | 22.99               | 22.82 | 22.89 | 22.83          | 22.90 | 22.64 | 22.79          | 22.77 | 22.65 | 0.5           |

**Table 9-5**  
**Reduced Conducted Powers- Hotspot Mode Active**

| 3GPP Release Version | Mode     | 3GPP 34.121 Subtest | AWS Band [dBm] |       |       | PCS Band [dBm] |       |       | 3GPP MPR [dB] |
|----------------------|----------|---------------------|----------------|-------|-------|----------------|-------|-------|---------------|
|                      |          |                     | 1312           | 1412  | 1513  | 9262           | 9400  | 9538  |               |
| 99                   | WCDMA    | 12.2 kbps RMC       | 20.18          | 20.26 | 19.86 | 20.59          | 20.41 | 20.41 | -             |
| 99                   |          | 12.2 kbps AMR       | 20.19          | 20.26 | 19.95 | 20.61          | 20.51 | 20.42 | -             |
| 6                    | HSDPA    | Subtest 1           | 19.16          | 19.23 | 18.98 | 19.55          | 19.56 | 19.42 | 0             |
| 6                    |          | Subtest 2           | 19.05          | 19.16 | 18.92 | 19.55          | 19.58 | 19.41 | 0             |
| 6                    |          | Subtest 3           | 18.52          | 18.62 | 18.38 | 19.07          | 19.11 | 18.98 | 0.5           |
| 6                    |          | Subtest 4           | 18.47          | 18.60 | 18.36 | 19.09          | 19.12 | 18.97 | 0.5           |
| 6                    | HSUPA    | Subtest 1           | 18.83          | 18.89 | 18.74 | 19.43          | 19.45 | 19.29 | 0             |
| 6                    |          | Subtest 2           | 16.75          | 16.81 | 16.61 | 17.37          | 17.38 | 17.26 | 2             |
| 6                    |          | Subtest 3           | 17.73          | 17.81 | 17.60 | 18.36          | 18.39 | 18.25 | 1             |
| 6                    |          | Subtest 4           | 16.73          | 16.82 | 16.64 | 17.35          | 17.40 | 17.26 | 2             |
| 6                    |          | Subtest 5           | 18.25          | 18.33 | 18.12 | 18.88          | 18.91 | 18.78 | 0             |
| 8                    | DC-HSDPA | Subtest 1           | 19.07          | 19.14 | 18.96 | 19.57          | 19.62 | 19.39 | 0             |
| 8                    |          | Subtest 2           | 19.03          | 19.13 | 18.97 | 19.56          | 19.63 | 19.42 | 0             |
| 8                    |          | Subtest 3           | 18.61          | 18.65 | 18.38 | 19.12          | 19.18 | 18.99 | 0.5           |
| 8                    |          | Subtest 4           | 18.62          | 18.69 | 18.42 | 19.13          | 19.20 | 19.01 | 0.5           |

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 34 of 176                  |

**Table 9-6**  
**Reduced Conducted Powers - 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       | 19.63          | 19.80 | 19.45 | 19.63          | 19.68 | 19.55 | -             |
| 99                   |          | 12.2 kbps AMR       | 19.68          | 19.80 | 19.44 | 19.66          | 19.54 | 19.59 | -             |
| 6                    | HSDPA    | Subtest 1           | 18.18          | 18.30 | 18.05 | 18.80          | 18.85 | 18.70 | 0             |
| 6                    |          | Subtest 2           | 18.20          | 18.29 | 18.06 | 18.79          | 18.86 | 18.70 | 0             |
| 6                    |          | Subtest 3           | 17.68          | 17.79 | 17.56 | 18.32          | 18.35 | 18.20 | 0.5           |
| 6                    |          | Subtest 4           | 17.70          | 17.80 | 17.56 | 18.33          | 18.35 | 18.16 | 0.5           |
| 6                    | HSUPA    | Subtest 1           | 18.21          | 18.32 | 18.11 | 18.86          | 18.98 | 18.79 | 0             |
| 6                    |          | Subtest 2           | 16.23          | 16.34 | 16.11 | 16.99          | 17.15 | 16.88 | 2             |
| 6                    |          | Subtest 3           | 17.23          | 17.39 | 17.15 | 17.90          | 18.09 | 17.83 | 1             |
| 6                    |          | Subtest 4           | 16.32          | 16.45 | 16.21 | 16.93          | 17.15 | 16.85 | 2             |
| 6                    |          | Subtest 5           | 17.75          | 17.81 | 17.60 | 18.45          | 18.55 | 18.37 | 0             |
| 8                    | DC-HSDPA | Subtest 1           | 18.34          | 18.41 | 18.23 | 18.84          | 18.89 | 18.66 | 0             |
| 8                    |          | Subtest 2           | 18.30          | 18.40 | 18.24 | 18.83          | 18.90 | 18.69 | 0             |
| 8                    |          | Subtest 3           | 17.88          | 17.92 | 17.65 | 18.39          | 18.45 | 18.26 | 0.5           |
| 8                    |          | Subtest 4           | 17.89          | 17.96 | 17.69 | 18.40          | 18.47 | 18.28 | 0.5           |

#### DC-HSDPA considerations

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

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



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

|                                                |                                                                                     |                                      |                                                                                       |                                        |
|------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMF900F                             |  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                             | <b>DUT Type:</b><br>Portable Handset | Page 35 of 176                                                                        |                                        |

## 9.3 LTE Conducted Powers

### 9.3.1 LTE Band 71

**Table 9-7**  
**LTE Band 71 Conducted Powers - 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         | 24.62                    | 0                            | 0        |
|                                 | 1       | 50        | 24.52                    |                              | 0        |
|                                 | 1       | 99        | 24.48                    |                              | 0        |
|                                 | 50      | 0         | 23.75                    | 0-1                          | 1        |
|                                 | 50      | 25        | 23.70                    |                              | 1        |
|                                 | 50      | 50        | 23.71                    |                              | 1        |
|                                 | 100     | 0         | 23.68                    |                              | 1        |
| 16QAM                           | 1       | 0         | 24.20                    | 0-1                          | 1        |
|                                 | 1       | 50        | 24.10                    |                              | 1        |
|                                 | 1       | 99        | 23.82                    |                              | 1        |
|                                 | 50      | 0         | 22.70                    | 0-2                          | 2        |
|                                 | 50      | 25        | 22.68                    |                              | 2        |
|                                 | 50      | 50        | 22.67                    |                              | 2        |
|                                 | 100     | 0         | 22.56                    |                              | 2        |
| 64QAM                           | 1       | 0         | 22.99                    | 0-2                          | 2        |
|                                 | 1       | 50        | 22.91                    |                              | 2        |
|                                 | 1       | 99        | 22.84                    |                              | 2        |
|                                 | 50      | 0         | 21.78                    | 0-3                          | 3        |
|                                 | 50      | 25        | 21.79                    |                              | 3        |
|                                 | 50      | 50        | 21.77                    |                              | 3        |
|                                 | 100     | 0         | 21.69                    |                              | 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.

**Table 9-8**  
**LTE Band 71 Conducted Powers - 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         | 24.43                    | 0                            | 0        |
|                                 | 1       | 36        | 24.35                    |                              | 0        |
|                                 | 1       | 74        | 24.41                    |                              | 0        |
|                                 | 36      | 0         | 23.62                    | 0-1                          | 1        |
|                                 | 36      | 18        | 23.65                    |                              | 1        |
|                                 | 36      | 37        | 23.60                    |                              | 1        |
|                                 | 75      | 0         | 23.62                    |                              | 1        |
| 16QAM                           | 1       | 0         | 24.07                    | 0-1                          | 1        |
|                                 | 1       | 36        | 24.09                    |                              | 1        |
|                                 | 1       | 74        | 24.08                    |                              | 1        |
|                                 | 36      | 0         | 22.57                    | 0-2                          | 2        |
|                                 | 36      | 18        | 22.57                    |                              | 2        |
|                                 | 36      | 37        | 22.58                    |                              | 2        |
|                                 | 75      | 0         | 22.59                    |                              | 2        |
| 64QAM                           | 1       | 0         | 22.56                    | 0-2                          | 2        |
|                                 | 1       | 36        | 22.53                    |                              | 2        |
|                                 | 1       | 74        | 22.58                    |                              | 2        |
|                                 | 36      | 0         | 21.62                    | 0-3                          | 3        |
|                                 | 36      | 18        | 21.64                    |                              | 3        |
|                                 | 36      | 37        | 21.63                    |                              | 3        |
|                                 | 75      | 0         | 21.60                    |                              | 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.

|                                                |                                                                                     |                                      |                                                                                       |                                        |
|------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMF900F                             |  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                             | <b>DUT Type:</b><br>Portable Handset | Page 36 of 176                                                                        |                                        |

**Table 9-9**  
**LTE Band 71 Conducted Powers - 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         | 24.42                 | 24.44                 | 24.18                 | 0                            | 0        |
|                                 | 1       | 25        | 24.29                 | 24.30                 | 24.29                 |                              | 0        |
|                                 | 1       | 49        | 24.32                 | 24.43                 | 24.30                 |                              | 0        |
|                                 | 25      | 0         | 23.40                 | 23.41                 | 23.43                 | 0-1                          | 1        |
|                                 | 25      | 12        | 23.42                 | 23.42                 | 23.43                 |                              | 1        |
|                                 | 25      | 25        | 23.39                 | 23.39                 | 23.38                 |                              | 1        |
| 16QAM                           | 50      | 0         | 23.36                 | 23.41                 | 23.40                 |                              | 1        |
|                                 | 1       | 0         | 23.60                 | 23.92                 | 23.82                 | 0-1                          | 1        |
|                                 | 1       | 25        | 23.66                 | 23.87                 | 23.81                 |                              | 1        |
|                                 | 1       | 49        | 23.58                 | 23.98                 | 23.88                 |                              |          |
|                                 | 25      | 0         | 22.43                 | 22.44                 | 22.49                 | 0-2                          | 2        |
|                                 | 25      | 12        | 22.41                 | 22.46                 | 22.44                 |                              | 2        |
|                                 | 25      | 25        | 22.39                 | 22.47                 | 22.46                 |                              | 2        |
| 64QAM                           | 50      | 0         | 22.34                 | 22.39                 | 22.43                 |                              | 2        |
|                                 | 1       | 0         | 22.40                 | 22.51                 | 22.34                 | 0-2                          | 2        |
|                                 | 1       | 25        | 22.34                 | 22.38                 | 22.41                 |                              | 2        |
|                                 | 1       | 49        | 22.30                 | 22.55                 | 22.36                 |                              |          |
|                                 | 25      | 0         | 21.49                 | 21.46                 | 21.45                 | 0-3                          | 3        |
|                                 | 25      | 12        | 21.45                 | 21.45                 | 21.42                 |                              | 3        |
|                                 | 25      | 25        | 21.44                 | 21.43                 | 21.44                 |                              | 3        |
| 50                              | 0       | 21.39     | 21.42                 | 21.46                 | 3                     |                              |          |

**Table 9-10**  
**LTE Band 71 Conducted Powers - 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         | 24.17                 | 24.11                 | 24.32                 | 0                            | 0        |
|                                | 1       | 12        | 24.26                 | 24.27                 | 24.48                 |                              | 0        |
|                                | 1       | 24        | 24.25                 | 24.29                 | 24.44                 |                              | 0        |
|                                | 12      | 0         | 23.45                 | 23.34                 | 23.38                 | 0-1                          | 1        |
|                                | 12      | 6         | 23.46                 | 23.44                 | 23.47                 |                              | 1        |
|                                | 12      | 13        | 23.41                 | 23.43                 | 23.50                 |                              | 1        |
|                                | 25      | 0         | 23.41                 | 23.47                 | 23.38                 |                              | 1        |
| 16QAM                          | 1       | 0         | 23.50                 | 23.57                 | 23.72                 | 0-1                          | 1        |
|                                | 1       | 12        | 23.59                 | 23.73                 | 23.85                 |                              | 1        |
|                                | 1       | 24        | 23.65                 | 23.72                 | 23.80                 |                              | 1        |
|                                | 12      | 0         | 22.37                 | 22.36                 | 22.50                 | 0-2                          | 2        |
|                                | 12      | 6         | 22.47                 | 22.44                 | 22.58                 |                              | 2        |
|                                | 12      | 13        | 22.47                 | 22.48                 | 22.64                 |                              | 2        |
|                                | 25      | 0         | 22.50                 | 22.51                 | 22.34                 |                              | 2        |
| 64QAM                          | 1       | 0         | 22.36                 | 22.46                 | 22.49                 | 0-2                          | 2        |
|                                | 1       | 12        | 22.48                 | 22.62                 | 22.58                 |                              | 2        |
|                                | 1       | 24        | 22.55                 | 22.63                 | 22.55                 |                              | 2        |
|                                | 12      | 0         | 21.41                 | 21.40                 | 21.29                 | 0-3                          | 3        |
|                                | 12      | 6         | 21.48                 | 21.52                 | 21.38                 |                              | 3        |
|                                | 12      | 13        | 21.50                 | 21.51                 | 21.43                 |                              | 3        |
|                                | 25      | 0         | 21.48                 | 21.44                 | 21.35                 |                              | 3        |

|                                                |                                                                                     |                                      |                                                                                       |                                        |
|------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMF900F                             |  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                             | <b>DUT Type:</b><br>Portable Handset | Page 37 of 176                                                                        |                                        |

### 9.3.2

### LTE Band 12

**Table 9-11**  
**LTE Band 12 Conducted Powers - 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)<br>Conducted Power<br>[dBm] |                              |          |
| QPSK                            | 1       | 0         | 23.81                                            | 0                            | 0        |
|                                 | 1       | 25        | 24.26                                            |                              | 0        |
|                                 | 1       | 49        | 24.12                                            |                              | 0        |
|                                 | 25      | 0         | 23.48                                            | 0-1                          | 1        |
|                                 | 25      | 12        | 23.43                                            |                              | 1        |
|                                 | 25      | 25        | 23.31                                            |                              | 1        |
| 16QAM                           | 50      | 0         | 23.43                                            | 0-1                          | 1        |
|                                 | 1       | 0         | 23.14                                            |                              | 1        |
|                                 | 1       | 25        | 23.54                                            |                              | 1        |
|                                 | 1       | 49        | 23.55                                            | 0-2                          | 1        |
|                                 | 25      | 0         | 22.48                                            |                              | 2        |
|                                 | 25      | 12        | 22.40                                            |                              | 2        |
| 64QAM                           | 25      | 25        | 22.42                                            | 0-2                          | 2        |
|                                 | 50      | 0         | 22.38                                            |                              | 2        |
|                                 | 1       | 0         | 22.01                                            | 0-3                          | 2        |
|                                 | 1       | 25        | 22.41                                            |                              | 2        |
|                                 | 1       | 49        | 22.51                                            |                              | 2        |
|                                 | 25      | 0         | 21.47                                            | 0-3                          | 3        |
|                                 | 25      | 12        | 21.48                                            |                              | 3        |
|                                 | 25      | 25        | 21.44                                            |                              | 3        |
|                                 | 50      | 0         | 21.45                                            |                              | 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.

**Table 9-12**  
**LTE Band 12 Conducted Powers - 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         | 23.79                 | 24.36                | 24.27                | 0                            | 0        |
|                                | 1       | 12        | 23.70                 | 24.50                | 24.00                |                              | 0        |
|                                | 1       | 24        | 23.93                 | 24.40                | 23.80                |                              | 0        |
|                                | 12      | 0         | 23.41                 | 23.45                | 23.39                | 0-1                          | 1        |
|                                | 12      | 6         | 23.53                 | 23.54                | 23.48                |                              | 1        |
|                                | 12      | 13        | 23.44                 | 23.53                | 23.45                |                              | 1        |
| 16QAM                          | 25      | 0         | 23.48                 | 23.52                | 23.40                | 0-1                          | 1        |
|                                | 1       | 0         | 23.09                 | 23.44                | 23.64                |                              | 1        |
|                                | 1       | 12        | 22.81                 | 23.58                | 23.35                |                              | 1        |
|                                | 1       | 24        | 23.25                 | 23.54                | 23.07                | 0-2                          | 1        |
|                                | 12      | 0         | 22.46                 | 22.48                | 22.61                |                              | 2        |
|                                | 12      | 6         | 22.52                 | 22.59                | 22.70                |                              | 2        |
| 64QAM                          | 12      | 13        | 22.53                 | 22.55                | 22.61                | 0-2                          | 2        |
|                                | 25      | 0         | 22.56                 | 22.52                | 22.46                |                              | 2        |
|                                | 1       | 0         | 21.93                 | 22.65                | 22.43                | 0-2                          | 2        |
|                                | 1       | 12        | 21.87                 | 22.78                | 22.09                |                              | 2        |
|                                | 1       | 24        | 22.12                 | 22.71                | 21.78                |                              | 2        |
|                                | 12      | 0         | 21.49                 | 21.55                | 21.40                | 0-3                          | 3        |
| 12                             | 6       | 21.65     | 21.64                 | 21.46                | 3                    |                              |          |
| 12                             | 13      | 21.57     | 21.60                 | 21.42                | 3                    |                              |          |
|                                | 25      | 0         | 21.53                 | 21.58                | 21.48                |                              | 3        |

|                                         |                                                                                     |                               |                       |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|-----------------------|---------------------------------------------------------------------------------------|---------------------------------|
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| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset | Page 38 of 176        |                                                                                       |                                 |

**Table 9-13**  
**LTE Band 12 Conducted Powers - 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         | 23.82                 | 24.28                | 23.83                | 0                            | 0        |
|                                | 1       | 7         | 23.63                 | 24.44                | 23.65                |                              | 0        |
|                                | 1       | 14        | 23.66                 | 24.36                | 23.66                |                              | 0        |
|                                | 8       | 0         | 23.41                 | 23.44                | 23.34                | 0-1                          | 1        |
|                                | 8       | 4         | 23.47                 | 23.51                | 23.45                |                              | 1        |
|                                | 8       | 7         | 23.46                 | 23.47                | 23.37                |                              | 1        |
| 16QAM                          | 15      | 0         | 23.50                 | 23.48                | 23.42                | 0-1                          | 1        |
|                                | 1       | 0         | 22.99                 | 23.84                | 23.26                |                              | 1        |
|                                | 1       | 7         | 22.81                 | 23.83                | 22.92                |                              | 1        |
|                                | 1       | 14        | 22.62                 | 23.87                | 22.99                | 0-2                          | 1        |
|                                | 8       | 0         | 22.46                 | 22.57                | 22.48                |                              | 2        |
|                                | 8       | 4         | 22.54                 | 22.67                | 22.58                |                              | 2        |
| 64QAM                          | 8       | 7         | 22.45                 | 22.62                | 22.50                | 0-2                          | 2        |
|                                | 15      | 0         | 22.40                 | 22.50                | 22.52                |                              | 2        |
|                                | 1       | 0         | 21.67                 | 22.37                | 22.17                |                              | 0-2      |
|                                | 1       | 7         | 21.62                 | 22.44                | 21.91                | 2                            |          |
|                                | 1       | 14        | 21.65                 | 22.46                | 21.92                | 0-3                          |          |
|                                | 8       | 0         | 21.48                 | 21.50                | 21.34                |                              | 3        |
| 8                              | 4       | 21.60     | 21.59                 | 21.44                | 3                    |                              |          |
|                                | 8       | 7         | 21.57                 | 21.58                | 21.49                |                              | 3        |
|                                | 15      | 0         | 21.62                 | 21.48                | 21.48                |                              | 3        |

**Table 9-14**  
**LTE Band 12 Conducted Powers -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         | 23.81                 | 23.99                | 23.60                | 0                            | 0        |
|                                  | 1       | 2         | 23.83                 | 24.03                | 23.67                |                              | 0        |
|                                  | 1       | 5         | 23.66                 | 24.10                | 23.66                |                              | 0        |
|                                  | 3       | 0         | 23.74                 | 23.68                | 23.67                |                              | 0        |
|                                  | 3       | 2         | 23.76                 | 23.72                | 23.69                |                              | 0        |
|                                  | 3       | 3         | 23.69                 | 23.65                | 23.65                |                              | 0        |
| 16QAM                            | 6       | 0         | 23.38                 | 23.34                | 23.34                | 0-1                          | 1        |
|                                  | 1       | 0         | 22.98                 | 22.95                | 22.95                | 0-1                          | 1        |
|                                  | 1       | 2         | 23.03                 | 23.02                | 23.02                |                              | 1        |
|                                  | 1       | 5         | 22.88                 | 23.03                | 23.03                |                              | 1        |
|                                  | 3       | 0         | 22.94                 | 22.92                | 22.68                |                              | 1        |
|                                  | 3       | 2         | 22.94                 | 22.68                | 22.72                |                              | 1        |
| 64QAM                            | 3       | 3         | 22.87                 | 22.79                | 22.68                | 0-2                          | 1        |
|                                  | 6       | 0         | 22.38                 | 22.36                | 22.36                |                              | 2        |
|                                  | 1       | 0         | 21.73                 | 21.58                | 21.88                | 0-2                          | 2        |
|                                  | 1       | 2         | 21.76                 | 21.93                | 21.94                |                              | 2        |
|                                  | 1       | 5         | 21.55                 | 21.91                | 21.91                |                              | 2        |
|                                  | 3       | 0         | 21.82                 | 21.87                | 21.82                |                              | 2        |
| 3                                | 2       | 21.83     | 21.94                 | 21.87                | 2                    |                              |          |
| 3                                | 3       | 21.78     | 21.86                 | 21.82                | 0-3                  | 2                            |          |
| 6                                | 0       | 21.47     | 21.42                 | 21.38                |                      | 3                            |          |

|                                                |                                                                                     |                                      |                                                                                       |                                        |
|------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
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| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                             | <b>DUT Type:</b><br>Portable Handset | Page 39 of 176                                                                        |                                        |

### 9.3.3

### LTE Band 13

**Table 9-15**  
**LTE Band 13 Conducted Powers - 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)<br>Conducted Power<br>[dBm] |                              |          |
| QPSK                            | 1       | 0         | 23.91                                            | 0                            | 0        |
|                                 | 1       | 25        | 23.90                                            |                              | 0        |
|                                 | 1       | 49        | 24.02                                            |                              | 0        |
|                                 | 25      | 0         | 23.11                                            | 0-1                          | 1        |
|                                 | 25      | 12        | 23.08                                            |                              | 1        |
|                                 | 25      | 25        | 23.09                                            |                              | 1        |
| 16QAM                           | 50      | 0         | 23.08                                            | 0-1                          | 1        |
|                                 | 1       | 0         | 23.22                                            |                              | 1        |
|                                 | 1       | 25        | 23.25                                            |                              | 1        |
|                                 | 1       | 49        | 23.32                                            | 0-2                          | 1        |
|                                 | 25      | 0         | 22.11                                            |                              | 2        |
|                                 | 25      | 12        | 22.13                                            |                              | 2        |
| 64QAM                           | 25      | 25        | 22.10                                            | 0-2                          | 2        |
|                                 | 50      | 0         | 22.09                                            |                              | 2        |
|                                 | 1       | 0         | 22.30                                            | 0-2                          | 2        |
|                                 | 1       | 25        | 22.16                                            |                              | 2        |
|                                 | 1       | 49        | 22.19                                            | 0-3                          | 2        |
|                                 | 25      | 0         | 21.09                                            |                              | 3        |
|                                 | 25      | 12        | 21.08                                            |                              | 3        |
|                                 | 25      | 25        | 21.06                                            |                              | 3        |
|                                 | 50      | 0         | 21.11                                            |                              | 3        |

**Table 9-16**  
**LTE Band 13 Conducted Powers - 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)<br>Conducted Power<br>[dBm] |                              |          |
| QPSK                           | 1       | 0         | 23.94                                            | 0                            | 0        |
|                                | 1       | 12        | 23.88                                            |                              | 0        |
|                                | 1       | 24        | 23.87                                            |                              | 0        |
|                                | 12      | 0         | 23.01                                            | 0-1                          | 1        |
|                                | 12      | 6         | 22.99                                            |                              | 1        |
|                                | 12      | 13        | 22.98                                            |                              | 1        |
| 16QAM                          | 25      | 0         | 22.95                                            | 0-1                          | 1        |
|                                | 1       | 0         | 23.20                                            |                              | 1        |
|                                | 1       | 12        | 23.13                                            | 0-1                          | 1        |
|                                | 1       | 24        | 23.17                                            |                              | 1        |
|                                | 12      | 0         | 22.13                                            | 0-2                          | 2        |
|                                | 12      | 6         | 22.14                                            |                              | 2        |
| 64QAM                          | 12      | 13        | 22.11                                            |                              | 2        |
|                                | 25      | 0         | 21.99                                            | 0-2                          | 2        |
|                                | 1       | 0         | 22.02                                            |                              | 2        |
|                                | 1       | 12        | 22.00                                            | 0-2                          | 2        |
|                                | 1       | 24        | 21.93                                            |                              | 2        |
|                                | 12      | 0         | 20.92                                            | 0-3                          | 3        |
|                                | 12      | 6         | 20.88                                            |                              | 3        |
|                                | 12      | 13        | 20.91                                            |                              | 3        |
|                                | 25      | 0         | 20.95                                            |                              | 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.

|                                         |                                                                                     |                               |                                                                                       |                                 |
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| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 40 of 176                  |

### 9.3.4

### LTE Band 14

**Table 9-17**  
**LTE Band 14 Conducted Powers - 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)<br>Conducted Power<br>[dBm] |                              |          |
| QPSK                            | 1       | 0         | 24.23                                            | 0                            | 0        |
|                                 | 1       | 25        | 24.17                                            |                              | 0        |
|                                 | 1       | 49        | 24.11                                            |                              | 0        |
|                                 | 25      | 0         | 23.28                                            | 0-1                          | 1        |
|                                 | 25      | 12        | 23.30                                            |                              | 1        |
|                                 | 25      | 25        | 23.05                                            |                              | 1        |
|                                 | 50      | 0         | 23.19                                            |                              | 1        |
| 16QAM                           | 1       | 0         | 23.45                                            | 0-1                          | 1        |
|                                 | 1       | 25        | 23.04                                            |                              | 1        |
|                                 | 1       | 49        | 23.15                                            |                              | 1        |
|                                 | 25      | 0         | 22.39                                            | 0-2                          | 2        |
|                                 | 25      | 12        | 22.28                                            |                              | 2        |
|                                 | 25      | 25        | 22.07                                            |                              | 2        |
|                                 | 50      | 0         | 22.25                                            |                              | 2        |
| 64QAM                           | 1       | 0         | 22.26                                            | 0-2                          | 2        |
|                                 | 1       | 25        | 22.40                                            |                              | 2        |
|                                 | 1       | 49        | 22.15                                            |                              | 2        |
|                                 | 25      | 0         | 21.36                                            | 0-3                          | 3        |
|                                 | 25      | 12        | 21.38                                            |                              | 3        |
|                                 | 25      | 25        | 21.12                                            |                              | 3        |
|                                 | 50      | 0         | 21.23                                            |                              | 3        |

**Table 9-18**  
**LTE Band 14 Conducted Powers - 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)<br>Conducted Power<br>[dBm] |                              |          |
| QPSK                           | 1       | 0         | 23.95                                            | 0                            | 0        |
|                                | 1       | 12        | 23.97                                            |                              | 0        |
|                                | 1       | 24        | 23.92                                            |                              | 0        |
|                                | 12      | 0         | 23.09                                            | 0-1                          | 1        |
|                                | 12      | 6         | 23.18                                            |                              | 1        |
|                                | 12      | 13        | 23.08                                            |                              | 1        |
|                                | 25      | 0         | 23.12                                            |                              | 1        |
| 16QAM                          | 1       | 0         | 23.27                                            | 0-1                          | 1        |
|                                | 1       | 12        | 23.31                                            |                              | 1        |
|                                | 1       | 24        | 23.25                                            |                              | 1        |
|                                | 12      | 0         | 22.11                                            | 0-2                          | 2        |
|                                | 12      | 6         | 22.16                                            |                              | 2        |
|                                | 12      | 13        | 22.13                                            |                              | 2        |
|                                | 25      | 0         | 22.19                                            |                              | 2        |
| 64QAM                          | 1       | 0         | 22.17                                            | 0-2                          | 2        |
|                                | 1       | 12        | 22.20                                            |                              | 2        |
|                                | 1       | 24        | 22.17                                            |                              | 2        |
|                                | 12      | 0         | 21.19                                            | 0-3                          | 3        |
|                                | 12      | 6         | 21.25                                            |                              | 3        |
|                                | 12      | 13        | 21.15                                            |                              | 3        |
|                                | 25      | 0         | 21.12                                            |                              | 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.

|                                         |                                                                                     |                               |                                                                                       |                                 |
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| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 41 of 176                  |

### 9.3.5

### LTE Band 26 (Cell)

**Table 9-19**  
**LTE Band 26 (Cell) Conducted Powers - 15 MHz Bandwidth**

| LTE Band 26 (Cell)<br>15 MHz Bandwidth |         |           |                                     |                              |          |
|----------------------------------------|---------|-----------|-------------------------------------|------------------------------|----------|
| Modulation                             | RB Size | RB Offset | Mid Channel<br>26865<br>(831.5 MHz) | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                        |         |           | Conducted Power<br>[dBm]            |                              |          |
| QPSK                                   | 1       | 0         | 24.22                               | 0                            | 0        |
|                                        | 1       | 36        | 24.17                               |                              | 0        |
|                                        | 1       | 74        | 24.16                               |                              | 0        |
|                                        | 36      | 0         | 23.26                               | 0-1                          | 1        |
|                                        | 36      | 18        | 23.25                               |                              | 1        |
|                                        | 36      | 37        | 23.27                               |                              | 1        |
|                                        | 75      | 0         | 23.24                               |                              | 1        |
| 16QAM                                  | 1       | 0         | 23.47                               | 0-1                          | 1        |
|                                        | 1       | 36        | 23.45                               |                              | 1        |
|                                        | 1       | 74        | 23.40                               |                              | 1        |
|                                        | 36      | 0         | 22.27                               | 0-2                          | 2        |
|                                        | 36      | 18        | 22.26                               |                              | 2        |
|                                        | 36      | 37        | 22.23                               |                              | 2        |
|                                        | 75      | 0         | 22.29                               |                              | 2        |
| 64QAM                                  | 1       | 0         | 22.44                               | 0-2                          | 2        |
|                                        | 1       | 36        | 22.46                               |                              | 2        |
|                                        | 1       | 74        | 22.42                               |                              | 2        |
|                                        | 36      | 0         | 21.31                               | 0-3                          | 3        |
|                                        | 36      | 18        | 21.28                               |                              | 3        |
|                                        | 36      | 37        | 21.32                               |                              | 3        |
|                                        | 75      | 0         | 21.19                               |                              | 3        |

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

**Table 9-20**  
**LTE Band 26 (Cell) Conducted Powers - 10 MHz Bandwidth**

| LTE Band 26 (Cell)<br>10 MHz Bandwidth |         |           |                       |                      |                      |                              |          |
|----------------------------------------|---------|-----------|-----------------------|----------------------|----------------------|------------------------------|----------|
| Modulation                             | RB Size | RB Offset | Low Channel           | Mid Channel          | High Channel         | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                        |         |           | 26740<br>(819.0 MHz)  | 26865<br>(831.5 MHz) | 26990<br>(844.0 MHz) |                              |          |
|                                        |         |           | Conducted Power [dBm] |                      |                      |                              |          |
| QPSK                                   | 1       | 0         | 23.73                 | 24.36                | 23.65                | 0                            | 0        |
|                                        | 1       | 25        | 23.30                 | 24.28                | 23.69                |                              | 0        |
|                                        | 1       | 49        | 23.93                 | 24.06                | 23.43                |                              | 0        |
|                                        | 25      | 0         | 22.81                 | 23.30                | 23.00                | 0-1                          | 1        |
|                                        | 25      | 12        | 22.48                 | 23.38                | 23.31                |                              | 1        |
|                                        | 25      | 25        | 22.48                 | 23.35                | 23.14                |                              | 1        |
|                                        | 50      | 0         | 22.61                 | 23.34                | 23.07                |                              | 1        |
| 16QAM                                  | 1       | 0         | 22.88                 | 23.65                | 22.96                | 0-1                          | 1        |
|                                        | 1       | 25        | 22.51                 | 23.60                | 22.94                |                              | 1        |
|                                        | 1       | 49        | 23.07                 | 23.62                | 22.50                |                              | 1        |
|                                        | 25      | 0         | 21.84                 | 22.37                | 21.99                | 0-2                          | 2        |
|                                        | 25      | 12        | 21.65                 | 22.37                | 22.31                |                              | 2        |
|                                        | 25      | 25        | 21.51                 | 22.36                | 22.17                |                              | 2        |
|                                        | 50      | 0         | 21.60                 | 22.37                | 22.07                |                              | 2        |
| 64QAM                                  | 1       | 0         | 21.79                 | 22.30                | 22.23                | 0-2                          | 2        |
|                                        | 1       | 25        | 21.51                 | 22.26                | 22.26                |                              | 2        |
|                                        | 1       | 49        | 22.18                 | 22.32                | 21.70                |                              | 2        |
|                                        | 25      | 0         | 21.01                 | 21.50                | 21.26                | 0-3                          | 3        |
|                                        | 25      | 12        | 20.74                 | 21.63                | 21.40                |                              | 3        |
|                                        | 25      | 25        | 20.75                 | 21.60                | 21.35                |                              | 3        |
|                                        | 50      | 0         | 20.81                 | 21.55                | 21.30                |                              | 3        |

|                                         |                                                                                     |                               |                       |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|-----------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  |                               | SAR EVALUATION REPORT |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                       |                                                                                       | Page 42 of 176                  |

**Table 9-21**  
**LTE Band 26 (Cell) Conducted Powers - 5 MHz Bandwidth**

| LTE Band 26 (Cell)<br>5 MHz Bandwidth |         |           |                       |                      |                      |                              |          |
|---------------------------------------|---------|-----------|-----------------------|----------------------|----------------------|------------------------------|----------|
| Modulation                            | RB Size | RB Offset | Low Channel           | Mid Channel          | High Channel         | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                       |         |           | 26715<br>(816.5 MHz)  | 26865<br>(831.5 MHz) | 27015<br>(846.5 MHz) |                              |          |
|                                       |         |           | Conducted Power [dBm] |                      |                      |                              |          |
| QPSK                                  | 1       | 0         | 23.59                 | 24.09                | 23.73                | 0                            | 0        |
|                                       | 1       | 12        | 23.56                 | 24.22                | 23.71                |                              | 0        |
|                                       | 1       | 24        | 23.30                 | 24.26                | 23.56                |                              | 0        |
|                                       | 12      | 0         | 23.07                 | 23.32                | 23.39                | 0-1                          | 1        |
|                                       | 12      | 6         | 22.97                 | 23.39                | 23.37                |                              | 1        |
|                                       | 12      | 13        | 22.60                 | 23.35                | 22.84                |                              | 1        |
| 16QAM                                 | 25      | 0         | 22.73                 | 23.35                | 22.99                | 1                            |          |
|                                       | 1       | 0         | 22.93                 | 23.37                | 22.98                | 0-1                          | 1        |
|                                       | 1       | 12        | 22.93                 | 23.50                | 22.91                |                              | 1        |
|                                       | 1       | 24        | 22.63                 | 23.49                | 22.56                |                              | 0-2      |
|                                       | 12      | 0         | 22.08                 | 22.29                | 22.31                | 2                            |          |
|                                       | 12      | 6         | 21.94                 | 22.40                | 22.39                | 2                            |          |
|                                       | 12      | 13        | 21.62                 | 22.35                | 21.90                | 2                            |          |
| 64QAM                                 | 25      | 0         | 21.73                 | 22.35                | 22.06                | 2                            |          |
|                                       | 1       | 0         | 21.38                 | 22.43                | 22.36                | 0-2                          | 2        |
|                                       | 1       | 12        | 21.46                 | 22.61                | 22.31                |                              | 2        |
|                                       | 1       | 24        | 21.30                 | 22.61                | 21.74                |                              | 2        |
|                                       | 12      | 0         | 21.30                 | 21.48                | 21.55                | 0-3                          | 3        |
|                                       | 12      | 6         | 21.21                 | 21.57                | 21.56                |                              | 3        |
|                                       | 12      | 13        | 20.82                 | 21.57                | 21.21                |                              | 3        |
| 25                                    | 0       | 21.05     | 21.55                 | 21.30                | 3                    |                              |          |

**Table 9-22**  
**LTE Band 26 (Cell) Conducted Powers - 3 MHz Bandwidth**

| LTE Band 26 (Cell)<br>3 MHz Bandwidth |         |           |                       |                      |                      |                              |          |
|---------------------------------------|---------|-----------|-----------------------|----------------------|----------------------|------------------------------|----------|
| Modulation                            | RB Size | RB Offset | Low Channel           | Mid Channel          | High Channel         | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                       |         |           | 26705<br>(815.5 MHz)  | 26865<br>(831.5 MHz) | 27025<br>(847.5 MHz) |                              |          |
|                                       |         |           | Conducted Power [dBm] |                      |                      |                              |          |
| QPSK                                  | 1       | 0         | 23.41                 | 24.18                | 23.67                | 0                            | 0        |
|                                       | 1       | 7         | 23.47                 | 24.26                | 23.37                |                              | 0        |
|                                       | 1       | 14        | 23.37                 | 24.17                | 23.31                |                              | 0        |
|                                       | 8       | 0         | 23.08                 | 23.31                | 23.25                | 0-1                          | 1        |
|                                       | 8       | 4         | 23.09                 | 23.39                | 22.93                |                              | 1        |
|                                       | 8       | 7         | 22.98                 | 23.31                | 22.62                |                              | 1        |
| 15                                    | 0       | 23.00     | 23.34                 | 22.88                | 1                    |                              |          |
| 16QAM                                 | 1       | 0         | 22.58                 | 23.59                | 23.30                | 0-1                          | 1        |
|                                       | 1       | 7         | 22.67                 | 23.60                | 23.10                |                              | 1        |
|                                       | 1       | 14        | 22.54                 | 23.58                | 22.64                |                              | 1        |
|                                       | 8       | 0         | 22.10                 | 22.39                | 22.31                | 0-2                          | 2        |
|                                       | 8       | 4         | 22.11                 | 22.45                | 22.14                |                              | 2        |
|                                       | 8       | 7         | 21.98                 | 22.45                | 21.80                |                              | 2        |
|                                       | 15      | 0         | 22.06                 | 22.36                | 22.00                |                              | 2        |
| 64QAM                                 | 1       | 0         | 21.49                 | 22.59                | 21.71                | 0-2                          | 2        |
|                                       | 1       | 7         | 21.60                 | 22.60                | 21.63                |                              | 2        |
|                                       | 1       | 14        | 21.57                 | 22.58                | 21.31                |                              | 2        |
|                                       | 8       | 0         | 21.33                 | 21.52                | 21.25                | 0-3                          | 3        |
|                                       | 8       | 4         | 21.37                 | 21.61                | 21.21                |                              | 3        |
|                                       | 8       | 7         | 21.27                 | 21.53                | 20.83                |                              | 3        |
|                                       | 15      | 0         | 21.24                 | 21.59                | 21.28                |                              | 3        |

|                                                |                                                                                     |                                      |                                                                                       |                                        |
|------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMF900F                             |  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                             | <b>DUT Type:</b><br>Portable Handset | Page 43 of 176                                                                        |                                        |

**Table 9-23**  
**LTE Band 26 (Cell) Conducted Powers -1.4 MHz Bandwidth**

| LTE Band 26 (Cell)<br>1.4 MHz Bandwidth |         |           |                       |                      |                      |                              |          |
|-----------------------------------------|---------|-----------|-----------------------|----------------------|----------------------|------------------------------|----------|
| Modulation                              | RB Size | RB Offset | Low Channel           | Mid Channel          | High Channel         | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                         |         |           | 26697<br>(814.7 MHz)  | 26865<br>(831.5 MHz) | 27033<br>(848.3 MHz) |                              |          |
|                                         |         |           | Conducted Power [dBm] |                      |                      |                              |          |
| QPSK                                    | 1       | 0         | 23.48                 | 24.37                | 23.34                | 0                            | 0        |
|                                         | 1       | 2         | 23.59                 | 24.54                | 23.22                |                              | 0        |
|                                         | 1       | 5         | 23.53                 | 24.48                | 23.00                |                              | 0        |
|                                         | 3       | 0         | 23.51                 | 24.37                | 23.35                |                              | 0        |
|                                         | 3       | 2         | 23.60                 | 24.46                | 23.24                |                              | 0        |
|                                         | 3       | 3         | 23.57                 | 24.40                | 23.13                |                              | 0        |
|                                         | 6       | 0         | 23.16                 | 23.49                | 22.51                | 0-1                          | 1        |
| 16QAM                                   | 1       | 0         | 22.54                 | 23.49                | 22.68                | 0-1                          | 1        |
|                                         | 1       | 2         | 22.69                 | 23.61                | 22.58                |                              | 1        |
|                                         | 1       | 5         | 22.67                 | 23.62                | 22.35                |                              | 1        |
|                                         | 3       | 0         | 22.67                 | 23.54                | 22.39                |                              | 1        |
|                                         | 3       | 2         | 22.76                 | 23.69                | 22.28                |                              | 1        |
|                                         | 3       | 3         | 22.71                 | 23.63                | 22.15                |                              | 1        |
|                                         | 6       | 0         | 22.14                 | 22.56                | 21.61                | 0-2                          | 2        |
| 64QAM                                   | 1       | 0         | 21.37                 | 22.61                | 21.69                | 0-2                          | 2        |
|                                         | 1       | 2         | 21.54                 | 22.65                | 21.63                |                              | 2        |
|                                         | 1       | 5         | 21.39                 | 22.63                | 21.41                |                              | 2        |
|                                         | 3       | 0         | 21.73                 | 22.71                | 21.78                |                              | 2        |
|                                         | 3       | 2         | 21.85                 | 22.85                | 21.66                |                              | 2        |
|                                         | 3       | 3         | 21.89                 | 22.74                | 21.55                |                              | 2        |
|                                         | 6       | 0         | 21.17                 | 21.37                | 20.65                | 0-3                          | 3        |

### 9.3.6 LTE Band 66 (AWS)

**Table 9-24**  
**LTE Band 66 (AWS) Max Conducted Powers - 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         | 24.24                  | 24.14                  | 24.06                  | 0                            | 0        |   |
|                                       | 1       | 50        | 24.06                  | 23.98                  | 23.93                  |                              | 0        |   |
|                                       | 1       | 99        | 23.98                  | 24.08                  | 23.94                  |                              | 0        |   |
|                                       | 50      | 0         | 23.33                  | 23.27                  | 23.23                  | 0-1                          | 1        |   |
|                                       | 50      | 25        | 23.28                  | 23.18                  | 23.32                  |                              | 1        |   |
|                                       | 50      | 50        | 23.25                  | 23.26                  | 23.18                  |                              | 1        |   |
| 16QAM                                 | 100     | 0         | 23.28                  | 23.22                  | 23.20                  | 0-1                          | 1        |   |
|                                       | 1       | 0         | 23.41                  | 23.37                  | 23.31                  |                              | 0-1      | 1 |
|                                       | 1       | 50        | 23.49                  | 23.26                  | 23.21                  |                              |          | 1 |
|                                       | 1       | 99        | 23.46                  | 23.41                  | 23.27                  | 0-2                          |          | 1 |
|                                       | 50      | 0         | 22.36                  | 22.23                  | 22.22                  |                              | 2        |   |
|                                       | 50      | 25        | 22.26                  | 22.27                  | 22.21                  |                              | 2        |   |
| 50                                    | 50      | 22.20     | 22.18                  | 22.17                  | 2                      |                              |          |   |
| 64QAM                                 | 100     | 0         | 22.27                  | 22.20                  | 22.23                  | 0-2                          | 2        |   |
|                                       | 1       | 0         | 22.39                  | 22.27                  | 22.37                  |                              | 0-2      | 2 |
|                                       | 1       | 50        | 22.35                  | 22.32                  | 22.18                  |                              |          | 2 |
|                                       | 1       | 99        | 22.29                  | 22.33                  | 22.22                  | 0-3                          |          | 2 |
|                                       | 50      | 0         | 21.33                  | 21.24                  | 21.21                  |                              | 3        |   |
|                                       | 50      | 25        | 21.31                  | 21.15                  | 21.23                  |                              | 3        |   |
| 50                                    | 50      | 21.30     | 21.17                  | 21.22                  | 3                      |                              |          |   |
|                                       | 100     | 0         | 21.29                  | 21.22                  | 21.22                  |                              | 3        |   |

|                                                |                                                                                     |                                      |                                                                                       |                                        |
|------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMF900F                             |  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                             | <b>DUT Type:</b><br>Portable Handset | Page 44 of 176                                                                        |                                        |

**Table 9-25**  
**LTE Band 66 (AWS) Max Conducted Powers - 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         | 24.26                  | 24.01                  | 24.45                  | 0                            | 0        |
|                                       | 1       | 36        | 24.26                  | 24.23                  | 24.39                  |                              | 0        |
|                                       | 1       | 74        | 24.19                  | 24.12                  | 24.15                  |                              | 0        |
|                                       | 36      | 0         | 23.55                  | 23.31                  | 23.44                  | 0-1                          | 1        |
|                                       | 36      | 18        | 23.53                  | 23.48                  | 23.43                  |                              | 1        |
|                                       | 36      | 37        | 23.45                  | 23.35                  | 23.35                  |                              | 1        |
|                                       | 75      | 0         | 23.47                  | 23.42                  | 23.42                  |                              | 1        |
| 16QAM                                 | 1       | 0         | 23.39                  | 23.62                  | 23.70                  | 0-1                          | 1        |
|                                       | 1       | 36        | 23.57                  | 23.78                  | 23.66                  |                              | 1        |
|                                       | 1       | 74        | 23.52                  | 23.71                  | 23.50                  |                              | 1        |
|                                       | 36      | 0         | 22.48                  | 22.31                  | 22.48                  | 0-2                          | 2        |
|                                       | 36      | 18        | 22.50                  | 22.47                  | 22.52                  |                              | 2        |
|                                       | 36      | 37        | 22.41                  | 22.36                  | 22.38                  |                              | 2        |
|                                       | 75      | 0         | 22.51                  | 22.46                  | 22.41                  |                              | 2        |
| 64QAM                                 | 1       | 0         | 22.23                  | 22.11                  | 22.61                  | 0-2                          | 2        |
|                                       | 1       | 36        | 22.46                  | 22.21                  | 22.51                  |                              | 2        |
|                                       | 1       | 74        | 22.31                  | 22.15                  | 22.52                  |                              | 2        |
|                                       | 36      | 0         | 21.60                  | 21.35                  | 21.49                  | 0-3                          | 3        |
|                                       | 36      | 18        | 21.61                  | 21.53                  | 21.49                  |                              | 3        |
|                                       | 36      | 37        | 21.51                  | 21.41                  | 21.36                  |                              | 3        |
|                                       | 75      | 0         | 21.52                  | 21.41                  | 21.39                  |                              | 3        |

**Table 9-26**  
**LTE Band 66 (AWS) Max Conducted Powers - 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         | 24.02                  | 23.96                  | 24.08                  | 0                            | 0        |
|                                       | 1       | 25        | 24.05                  | 23.93                  | 24.05                  |                              | 0        |
|                                       | 1       | 49        | 24.02                  | 23.97                  | 24.12                  |                              | 0        |
|                                       | 25      | 0         | 23.33                  | 23.23                  | 23.23                  | 0-1                          | 1        |
|                                       | 25      | 12        | 23.32                  | 23.22                  | 23.18                  |                              | 1        |
|                                       | 25      | 25        | 23.27                  | 23.15                  | 23.19                  |                              | 1        |
| 16QAM                                 | 50      | 0         | 23.32                  | 23.18                  | 23.19                  | 0-1                          | 1        |
|                                       | 1       | 0         | 23.43                  | 23.61                  | 23.65                  |                              | 1        |
|                                       | 1       | 25        | 23.35                  | 23.50                  | 23.60                  |                              | 1        |
|                                       | 1       | 49        | 23.37                  | 23.61                  | 23.66                  | 0-2                          | 1        |
|                                       | 25      | 0         | 22.45                  | 22.30                  | 22.31                  |                              | 2        |
|                                       | 25      | 12        | 22.40                  | 22.31                  | 22.29                  |                              | 2        |
| 64QAM                                 | 25      | 25        | 22.28                  | 22.27                  | 22.23                  | 0-2                          | 2        |
|                                       | 50      | 0         | 22.27                  | 22.19                  | 22.20                  |                              | 2        |
|                                       | 1       | 0         | 22.43                  | 22.05                  | 22.03                  | 0-2                          | 2        |
|                                       | 1       | 25        | 22.37                  | 21.98                  | 21.95                  |                              | 2        |
|                                       | 1       | 49        | 22.41                  | 22.04                  | 22.06                  |                              | 2        |
|                                       | 25      | 0         | 21.36                  | 21.31                  | 21.29                  | 0-3                          | 3        |
| 25                                    | 12      | 21.40     | 21.29                  | 21.28                  | 3                      |                              |          |
| 25                                    | 25      | 21.36     | 21.23                  | 21.28                  | 3                      |                              |          |
| 50                                    | 0       | 21.28     | 21.23                  | 21.24                  |                        | 3                            |          |

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset | Page 45 of 176                                                                        |                                 |

**Table 9-27**  
**LTE Band 66 (AWS) Max Conducted Powers - 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         | 24.10                  | 24.13                  | 24.15                  | 0                            | 0        |
|                                      | 1       | 12        | 24.19                  | 24.15                  | 24.22                  |                              | 0        |
|                                      | 1       | 24        | 24.18                  | 24.17                  | 24.28                  |                              | 0        |
|                                      | 12      | 0         | 23.31                  | 23.19                  | 23.25                  | 0-1                          | 1        |
|                                      | 12      | 6         | 23.36                  | 23.26                  | 23.25                  |                              | 1        |
|                                      | 12      | 13        | 23.33                  | 23.25                  | 23.25                  |                              | 1        |
| 16QAM                                | 25      | 0         | 23.34                  | 23.18                  | 23.19                  | 0-1                          | 1        |
|                                      | 1       | 0         | 23.35                  | 23.27                  | 23.58                  |                              | 1        |
|                                      | 1       | 12        | 23.42                  | 23.27                  | 23.65                  |                              | 1        |
|                                      | 1       | 24        | 23.43                  | 23.31                  | 23.60                  | 0-2                          | 1        |
|                                      | 12      | 0         | 22.36                  | 22.21                  | 22.41                  |                              | 2        |
|                                      | 12      | 6         | 22.37                  | 22.21                  | 22.47                  |                              | 2        |
| 64QAM                                | 12      | 13        | 22.38                  | 22.28                  | 22.47                  | 0-2                          | 2        |
|                                      | 25      | 0         | 22.42                  | 22.20                  | 22.21                  |                              | 2        |
|                                      | 1       | 0         | 22.35                  | 22.65                  | 21.94                  |                              | 0-2      |
|                                      | 1       | 12        | 22.42                  | 22.69                  | 22.04                  | 2                            |          |
|                                      | 1       | 24        | 22.46                  | 22.74                  | 21.97                  | 2                            |          |
|                                      | 64QAM   | 12        | 0                      | 21.36                  | 21.35                  | 21.33                        | 0-3      |
| 12                                   |         | 6         | 21.41                  | 21.36                  | 21.36                  | 3                            |          |
| 12                                   |         | 13        | 21.39                  | 21.38                  | 21.35                  | 3                            |          |
| 25                                   |         | 0         | 21.33                  | 21.21                  | 21.28                  | 3                            |          |

**Table 9-28**  
**LTE Band 66 (AWS) Max Conducted Powers - 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         | 24.19                  | 24.23                  | 23.92                  | 0                            | 0        |
|                                      | 1       | 7         | 24.16                  | 24.20                  | 23.95                  |                              | 0        |
|                                      | 1       | 14        | 24.20                  | 24.24                  | 24.03                  |                              | 0        |
|                                      | 8       | 0         | 23.21                  | 23.32                  | 23.00                  | 0-1                          | 1        |
|                                      | 8       | 4         | 23.32                  | 23.33                  | 23.02                  |                              | 1        |
|                                      | 8       | 7         | 23.24                  | 23.29                  | 23.05                  |                              | 1        |
| 16QAM                                | 15      | 0         | 23.30                  | 23.30                  | 23.02                  | 0-1                          | 1        |
|                                      | 1       | 0         | 23.41                  | 23.46                  | 23.04                  |                              | 1        |
|                                      | 1       | 7         | 23.45                  | 23.49                  | 23.26                  |                              | 1        |
|                                      | 1       | 14        | 23.50                  | 23.60                  | 23.24                  | 0-2                          | 1        |
|                                      | 8       | 0         | 22.33                  | 22.38                  | 22.11                  |                              | 2        |
|                                      | 8       | 4         | 22.30                  | 22.39                  | 22.06                  |                              | 2        |
| 64QAM                                | 8       | 7         | 22.47                  | 22.39                  | 22.11                  | 0-2                          | 2        |
|                                      | 15      | 0         | 22.30                  | 22.30                  | 22.06                  |                              | 2        |
|                                      | 1       | 0         | 22.75                  | 22.38                  | 22.13                  | 0-2                          | 2        |
|                                      | 1       | 7         | 22.51                  | 22.45                  | 22.32                  |                              | 2        |
|                                      | 1       | 14        | 22.49                  | 22.50                  | 22.21                  | 0-3                          | 2        |
|                                      | 8       | 0         | 21.35                  | 21.38                  | 21.09                  |                              | 3        |
| 8                                    | 4       | 21.32     | 21.34                  | 21.12                  | 3                      |                              |          |
| 64QAM                                | 8       | 7         | 21.37                  | 21.40                  | 21.10                  | 0-3                          | 3        |
|                                      | 15      | 0         | 21.35                  | 21.37                  | 21.07                  |                              | 3        |

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset | Page 46 of 176                                                                        |                                 |

**Table 9-29**  
**LTE Band 66 (AWS) Max Conducted Powers -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         | 24.10                  | 23.87                  | 24.01                  | 0                            | 0        |
|                                        | 1       | 2         | 24.19                  | 23.96                  | 23.99                  |                              | 0        |
|                                        | 1       | 5         | 24.19                  | 23.95                  | 23.95                  |                              | 0        |
|                                        | 3       | 0         | 24.12                  | 23.95                  | 23.93                  |                              | 0        |
|                                        | 3       | 2         | 24.19                  | 24.03                  | 24.07                  |                              | 0        |
|                                        | 3       | 3         | 24.15                  | 23.91                  | 23.97                  |                              | 0        |
|                                        | 6       | 0         | 23.20                  | 22.99                  | 23.08                  | 0-1                          | 1        |
| 16QAM                                  | 1       | 0         | 23.41                  | 23.28                  | 23.26                  | 0-1                          | 1        |
|                                        | 1       | 2         | 23.47                  | 23.26                  | 23.25                  |                              | 1        |
|                                        | 1       | 5         | 23.37                  | 23.24                  | 23.30                  |                              | 1        |
|                                        | 3       | 0         | 23.29                  | 23.00                  | 23.08                  |                              | 1        |
|                                        | 3       | 2         | 23.28                  | 23.09                  | 23.15                  |                              | 1        |
|                                        | 3       | 3         | 23.32                  | 23.10                  | 23.13                  |                              | 1        |
|                                        | 6       | 0         | 22.31                  | 22.11                  | 22.12                  | 0-2                          | 2        |
| 64QAM                                  | 1       | 0         | 22.33                  | 22.46                  | 22.30                  | 0-2                          | 2        |
|                                        | 1       | 2         | 22.43                  | 22.00                  | 22.33                  |                              | 2        |
|                                        | 1       | 5         | 22.48                  | 22.18                  | 22.04                  |                              | 2        |
|                                        | 3       | 0         | 22.27                  | 22.08                  | 22.12                  |                              | 2        |
|                                        | 3       | 2         | 22.39                  | 22.16                  | 22.23                  |                              | 2        |
|                                        | 3       | 3         | 22.25                  | 22.14                  | 22.18                  |                              | 2        |
|                                        | 6       | 0         | 21.16                  | 21.04                  | 21.05                  | 0-3                          | 3        |

**Table 9-30**  
**LTE Band 66 (AWS) Reduced Conducted Powers - 20 MHz Bandwidth - Hotspot Mode Active**

| LTE Band 66 (AWS)<br>20 MHz Bandwidth |         |           |                        |                        |                        |                              |          |
|---------------------------------------|---------|-----------|------------------------|------------------------|------------------------|------------------------------|----------|
| Modulation                            | RB Size | RB Offset | Low Channel            | Mid Channel            | High Channel           | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                       |         |           | 132072<br>(1720.0 MHz) | 132322<br>(1745.0 MHz) | 132572<br>(1770.0 MHz) |                              |          |
|                                       |         |           | Conducted Power [dBm]  |                        |                        |                              |          |
| QPSK                                  | 1       | 0         | 19.86                  | 19.60                  | 19.70                  | 0                            | 0        |
|                                       | 1       | 50        | 19.70                  | 19.46                  | 19.54                  |                              | 0        |
|                                       | 1       | 99        | 19.74                  | 19.63                  | 19.36                  |                              | 0        |
|                                       | 50      | 0         | 19.93                  | 19.78                  | 19.82                  | 0-1                          | 0        |
|                                       | 50      | 25        | 19.88                  | 19.84                  | 19.83                  |                              | 0        |
|                                       | 50      | 50        | 19.87                  | 19.78                  | 19.84                  |                              | 0        |
|                                       | 100     | 0         | 19.77                  | 19.77                  | 19.84                  |                              | 0        |
| 16QAM                                 | 1       | 0         | 19.97                  | 19.98                  | 19.98                  | 0-1                          | 0        |
|                                       | 1       | 50        | 19.93                  | 19.78                  | 19.91                  |                              | 0        |
|                                       | 1       | 99        | 19.89                  | 19.86                  | 19.86                  |                              | 0        |
|                                       | 50      | 0         | 19.91                  | 19.80                  | 19.95                  | 0-2                          | 0        |
|                                       | 50      | 25        | 19.90                  | 19.76                  | 19.86                  |                              | 0        |
|                                       | 50      | 50        | 19.81                  | 19.78                  | 19.78                  |                              | 0        |
|                                       | 100     | 0         | 19.86                  | 19.75                  | 19.83                  |                              | 0        |
| 64QAM                                 | 1       | 0         | 19.99                  | 19.90                  | 19.89                  | 0-2                          | 0        |
|                                       | 1       | 50        | 19.90                  | 19.82                  | 19.89                  |                              | 0        |
|                                       | 1       | 99        | 19.97                  | 19.89                  | 19.90                  |                              | 0        |
|                                       | 50      | 0         | 19.98                  | 19.87                  | 19.85                  | 0-3                          | 0        |
|                                       | 50      | 25        | 19.95                  | 19.87                  | 19.85                  |                              | 0        |
|                                       | 50      | 50        | 19.86                  | 19.85                  | 19.79                  |                              | 0        |
|                                       | 100     | 0         | 19.98                  | 19.76                  | 19.83                  |                              | 0        |

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 47 of 176                  |

**Table 9-31**  
**LTE Band 66 (AWS) Reduced Conducted Powers - 15 MHz Bandwidth - Hotspot Mode Active**

| LTE Band 66 (AWS)<br>15 MHz Bandwidth |         |           |                        |                        |                        |                              |          |
|---------------------------------------|---------|-----------|------------------------|------------------------|------------------------|------------------------------|----------|
| Modulation                            | RB Size | RB Offset | Low Channel            | Mid Channel            | High Channel           | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                       |         |           | 132047<br>(1717.5 MHz) | 132322<br>(1745.0 MHz) | 132597<br>(1772.5 MHz) |                              |          |
|                                       |         |           | Conducted Power [dBm]  |                        |                        |                              |          |
| QPSK                                  | 1       | 0         | 19.74                  | 19.59                  | 19.54                  | 0                            | 0        |
|                                       | 1       | 36        | 19.68                  | 19.64                  | 19.63                  |                              | 0        |
|                                       | 1       | 74        | 19.61                  | 19.59                  | 19.52                  |                              | 0        |
|                                       | 36      | 0         | 19.88                  | 19.79                  | 19.72                  | 0-1                          | 0        |
|                                       | 36      | 18        | 19.80                  | 19.81                  | 19.72                  |                              | 0        |
|                                       | 36      | 37        | 19.80                  | 19.66                  | 19.66                  |                              | 0        |
|                                       | 75      | 0         | 19.85                  | 19.71                  | 19.70                  |                              | 0        |
| 16QAM                                 | 1       | 0         | 20.02                  | 19.88                  | 19.96                  | 0-1                          | 0        |
|                                       | 1       | 36        | 19.87                  | 19.99                  | 19.88                  |                              | 0        |
|                                       | 1       | 74        | 19.98                  | 19.95                  | 19.89                  |                              | 0        |
|                                       | 36      | 0         | 19.86                  | 19.81                  | 19.75                  | 0-2                          | 0        |
|                                       | 36      | 18        | 19.84                  | 19.76                  | 19.77                  |                              | 0        |
|                                       | 36      | 37        | 19.79                  | 19.82                  | 19.69                  |                              | 0        |
|                                       | 75      | 0         | 19.77                  | 19.74                  | 19.72                  |                              | 0        |
| 64QAM                                 | 1       | 0         | 20.04                  | 19.73                  | 19.88                  | 0-2                          | 0        |
|                                       | 1       | 36        | 20.08                  | 19.98                  | 19.84                  |                              | 0        |
|                                       | 1       | 74        | 19.81                  | 19.93                  | 19.70                  |                              | 0        |
|                                       | 36      | 0         | 19.94                  | 19.78                  | 19.85                  | 0-3                          | 0        |
|                                       | 36      | 18        | 19.88                  | 19.81                  | 19.77                  |                              | 0        |
|                                       | 36      | 37        | 19.92                  | 19.91                  | 19.79                  |                              | 0        |
|                                       | 75      | 0         | 19.87                  | 19.71                  | 19.76                  |                              | 0        |

**Table 9-32**  
**LTE Band 66 (AWS) Reduced Conducted Powers - 10 MHz Bandwidth - Hotspot Mode Active**

| LTE Band 66 (AWS)<br>10 MHz Bandwidth |         |           |                        |                        |                        |                              |          |
|---------------------------------------|---------|-----------|------------------------|------------------------|------------------------|------------------------------|----------|
| Modulation                            | RB Size | RB Offset | Low Channel            | Mid Channel            | High Channel           | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                       |         |           | 132022<br>(1715.0 MHz) | 132322<br>(1745.0 MHz) | 132622<br>(1775.0 MHz) |                              |          |
|                                       |         |           | Conducted Power [dBm]  |                        |                        |                              |          |
| QPSK                                  | 1       | 0         | 19.55                  | 19.46                  | 19.40                  | 0                            | 0        |
|                                       | 1       | 25        | 19.65                  | 19.43                  | 19.46                  |                              | 0        |
|                                       | 1       | 49        | 19.75                  | 19.46                  | 19.47                  |                              | 0        |
|                                       | 25      | 0         | 19.60                  | 19.60                  | 19.64                  | 0-1                          | 0        |
|                                       | 25      | 12        | 19.71                  | 19.63                  | 19.49                  |                              | 0        |
|                                       | 25      | 25        | 19.76                  | 19.56                  | 19.47                  |                              | 0        |
|                                       | 50      | 0         | 19.71                  | 19.57                  | 19.51                  |                              | 0        |
| 16QAM                                 | 1       | 0         | 19.94                  | 19.76                  | 19.71                  | 0-1                          | 0        |
|                                       | 1       | 25        | 19.70                  | 19.53                  | 19.47                  |                              | 0        |
|                                       | 1       | 49        | 19.70                  | 19.67                  | 19.80                  |                              | 0        |
|                                       | 25      | 0         | 19.75                  | 19.66                  | 19.54                  | 0-2                          | 0        |
|                                       | 25      | 12        | 19.68                  | 19.65                  | 19.59                  |                              | 0        |
|                                       | 25      | 25        | 19.68                  | 19.59                  | 19.55                  |                              | 0        |
|                                       | 50      | 0         | 19.74                  | 19.57                  | 19.63                  |                              | 0        |
| 64QAM                                 | 1       | 0         | 19.84                  | 19.69                  | 19.56                  | 0-2                          | 0        |
|                                       | 1       | 25        | 19.81                  | 19.70                  | 19.25                  |                              | 0        |
|                                       | 1       | 49        | 19.86                  | 19.87                  | 19.67                  |                              | 0        |
|                                       | 25      | 0         | 19.74                  | 19.59                  | 19.61                  | 0-3                          | 0        |
|                                       | 25      | 12        | 19.80                  | 19.62                  | 19.82                  |                              | 0        |
|                                       | 25      | 25        | 19.71                  | 19.58                  | 19.57                  |                              | 0        |
|                                       | 50      | 0         | 19.74                  | 19.59                  | 19.65                  |                              | 0        |

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 48 of 176                  |

Table 9-33

## LTE Band 66 (AWS) Reduced Conducted Powers - 5 MHz Bandwidth - Hotspot Mode Active

| LTE Band 66 (AWS)<br>5 MHz Bandwidth |         |           |                        |                        |                        |                              |          |
|--------------------------------------|---------|-----------|------------------------|------------------------|------------------------|------------------------------|----------|
| Modulation                           | RB Size | RB Offset | Low Channel            | Mid Channel            | High Channel           | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                      |         |           | 131997<br>(1712.5 MHz) | 132322<br>(1745.0 MHz) | 132647<br>(1777.5 MHz) |                              |          |
|                                      |         |           | Conducted Power [dBm]  |                        |                        |                              |          |
| QPSK                                 | 1       | 0         | 19.70                  | 19.45                  | 19.40                  | 0                            | 0        |
|                                      | 1       | 12        | 19.65                  | 19.48                  | 19.31                  |                              | 0        |
|                                      | 1       | 24        | 19.66                  | 19.54                  | 19.45                  |                              | 0        |
|                                      | 12      | 0         | 19.74                  | 19.57                  | 19.55                  | 0-1                          | 0        |
|                                      | 12      | 6         | 19.78                  | 19.63                  | 19.58                  |                              | 0        |
|                                      | 12      | 13        | 19.75                  | 19.55                  | 19.58                  |                              | 0        |
| 16QAM                                | 25      | 0         | 19.74                  | 19.61                  | 19.54                  | 0                            |          |
|                                      | 1       | 0         | 19.92                  | 19.86                  | 19.66                  | 0-1                          | 0        |
|                                      | 1       | 12        | 19.98                  | 19.64                  | 19.78                  |                              | 0        |
|                                      | 1       | 24        | 19.94                  | 19.82                  | 19.81                  |                              | 0        |
|                                      | 12      | 0         | 19.83                  | 19.60                  | 19.67                  | 0-2                          | 0        |
|                                      | 12      | 6         | 19.87                  | 19.66                  | 19.68                  |                              | 0        |
| 12                                   | 13      | 19.78     | 19.68                  | 19.65                  | 0                      |                              |          |
| 64QAM                                | 25      | 0         | 19.80                  | 19.63                  | 19.58                  | 0                            |          |
|                                      | 1       | 0         | 19.99                  | 19.79                  | 19.90                  | 0-2                          | 0        |
|                                      | 1       | 12        | 19.95                  | 19.55                  | 19.79                  |                              | 0        |
|                                      | 1       | 24        | 19.98                  | 19.84                  | 19.92                  |                              | 0        |
|                                      | 12      | 0         | 19.82                  | 19.62                  | 19.63                  | 0-3                          | 0        |
|                                      | 12      | 6         | 19.89                  | 19.77                  | 19.64                  |                              | 0        |
| 12                                   | 13      | 19.84     | 19.75                  | 19.61                  | 0                      |                              |          |
|                                      | 25      | 0         | 19.74                  | 19.60                  | 19.54                  | 0                            |          |

Table 9-34

## LTE Band 66 (AWS) Reduced Conducted Powers - 3 MHz Bandwidth - Hotspot Mode Active

| LTE Band 66 (AWS)<br>3 MHz Bandwidth |         |           |                        |                        |                        |                              |          |
|--------------------------------------|---------|-----------|------------------------|------------------------|------------------------|------------------------------|----------|
| Modulation                           | RB Size | RB Offset | Low Channel            | Mid Channel            | High Channel           | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                      |         |           | 131987<br>(1711.5 MHz) | 132322<br>(1745.0 MHz) | 132657<br>(1778.5 MHz) |                              |          |
|                                      |         |           | Conducted Power [dBm]  |                        |                        |                              |          |
| QPSK                                 | 1       | 0         | 19.62                  | 19.47                  | 19.39                  | 0                            | 0        |
|                                      | 1       | 7         | 19.60                  | 19.45                  | 19.49                  |                              | 0        |
|                                      | 1       | 14        | 19.68                  | 19.50                  | 19.40                  |                              | 0        |
|                                      | 8       | 0         | 19.72                  | 19.50                  | 19.48                  | 0-1                          | 0        |
|                                      | 8       | 4         | 19.71                  | 19.65                  | 19.50                  |                              | 0        |
|                                      | 8       | 7         | 19.73                  | 19.54                  | 19.54                  |                              | 0        |
|                                      | 15      | 0         | 19.86                  | 19.60                  | 19.55                  |                              | 0        |
| 16QAM                                | 1       | 0         | 19.92                  | 19.70                  | 19.66                  | 0-1                          | 0        |
|                                      | 1       | 7         | 19.88                  | 19.71                  | 19.59                  |                              | 0        |
|                                      | 1       | 14        | 19.95                  | 19.88                  | 19.61                  |                              | 0        |
|                                      | 8       | 0         | 19.79                  | 19.72                  | 19.56                  | 0-2                          | 0        |
|                                      | 8       | 4         | 19.79                  | 19.70                  | 19.47                  |                              | 0        |
|                                      | 8       | 7         | 19.87                  | 19.60                  | 19.63                  |                              | 0        |
|                                      | 15      | 0         | 19.79                  | 19.61                  | 19.51                  |                              | 0        |
| 64QAM                                | 1       | 0         | 19.82                  | 19.48                  | 19.71                  | 0-2                          | 0        |
|                                      | 1       | 7         | 19.84                  | 19.74                  | 19.59                  |                              | 0        |
|                                      | 1       | 14        | 19.92                  | 19.67                  | 19.66                  |                              | 0        |
|                                      | 8       | 0         | 19.80                  | 19.82                  | 19.62                  | 0-3                          | 0        |
|                                      | 8       | 4         | 19.88                  | 19.69                  | 19.49                  |                              | 0        |
|                                      | 8       | 7         | 19.83                  | 19.61                  | 19.75                  |                              | 0        |
|                                      | 15      | 0         | 19.76                  | 19.63                  | 19.14                  |                              | 0        |

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 49 of 176                  |

**Table 9-35**

**LTE Band 66 (AWS) Reduced Conducted Powers - 1.4 MHz Bandwidth - Hotspot Mode Active**

| LTE Band 66 (AWS)<br>1.4 MHz Bandwidth |         |           |                        |                        |                        |                              |          |
|----------------------------------------|---------|-----------|------------------------|------------------------|------------------------|------------------------------|----------|
| Modulation                             | RB Size | RB Offset | Low Channel            | Mid Channel            | High Channel           | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                        |         |           | 131979<br>(1710.7 MHz) | 132322<br>(1745.0 MHz) | 132665<br>(1779.3 MHz) |                              |          |
|                                        |         |           | Conducted Power [dBm]  |                        |                        |                              |          |
| QPSK                                   | 1       | 0         | 19.56                  | 19.37                  | 19.33                  | 0                            | 0        |
|                                        | 1       | 2         | 19.60                  | 19.51                  | 19.47                  |                              | 0        |
|                                        | 1       | 5         | 19.63                  | 19.39                  | 19.34                  |                              | 0        |
|                                        | 3       | 0         | 19.58                  | 19.43                  | 19.32                  |                              | 0        |
|                                        | 3       | 2         | 19.55                  | 19.38                  | 19.39                  |                              | 0        |
|                                        | 3       | 3         | 19.56                  | 19.37                  | 19.33                  |                              | 0        |
|                                        | 6       | 0         | 19.69                  | 19.55                  | 19.43                  | 0-1                          | 0        |
| 16QAM                                  | 1       | 0         | 19.83                  | 19.67                  | 19.66                  | 0-1                          | 0        |
|                                        | 1       | 2         | 19.89                  | 19.93                  | 19.68                  |                              | 0        |
|                                        | 1       | 5         | 19.63                  | 19.70                  | 19.74                  |                              | 0        |
|                                        | 3       | 0         | 19.89                  | 19.56                  | 19.49                  |                              | 0        |
|                                        | 3       | 2         | 19.74                  | 19.60                  | 19.55                  |                              | 0        |
|                                        | 3       | 3         | 19.71                  | 19.66                  | 19.34                  |                              | 0        |
|                                        | 6       | 0         | 19.68                  | 19.53                  | 19.44                  | 0-2                          | 0        |
| 64QAM                                  | 1       | 0         | 19.55                  | 19.41                  | 19.64                  | 0-2                          | 0        |
|                                        | 1       | 2         | 19.70                  | 19.99                  | 19.60                  |                              | 0        |
|                                        | 1       | 5         | 19.76                  | 19.65                  | 19.88                  |                              | 0        |
|                                        | 3       | 0         | 19.52                  | 19.52                  | 19.53                  |                              | 0        |
|                                        | 3       | 2         | 19.68                  | 19.47                  | 19.62                  |                              | 0        |
|                                        | 3       | 3         | 19.53                  | 19.63                  | 19.48                  |                              | 0        |
|                                        | 6       | 0         | 19.73                  | 19.50                  | 19.47                  | 0-3                          | 0        |

**Table 9-36**

**LTE Band 66 (AWS) Reduced Conducted Powers - 20 MHz Bandwidth - Grip Sensor Active**

| 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         | 18.84                  | 18.57                  | 18.63                  | 0                            | 0        |
|                                       | 1       | 50        | 18.62                  | 18.54                  | 18.50                  |                              | 0        |
|                                       | 1       | 99        | 18.62                  | 18.58                  | 18.47                  |                              | 0        |
|                                       | 50      | 0         | 18.97                  | 18.73                  | 18.78                  | 0-1                          | 0        |
|                                       | 50      | 25        | 18.83                  | 18.75                  | 18.75                  |                              | 0        |
|                                       | 50      | 50        | 18.75                  | 18.71                  | 18.72                  |                              | 0        |
|                                       | 100     | 0         | 18.72                  | 18.83                  | 18.62                  | 0                            |          |
| 16QAM                                 | 1       | 0         | 18.92                  | 18.76                  | 18.91                  | 0-1                          | 0        |
|                                       | 1       | 50        | 18.86                  | 18.72                  | 18.51                  |                              | 0        |
|                                       | 1       | 99        | 18.82                  | 18.76                  | 18.82                  |                              | 0        |
|                                       | 50      | 0         | 18.81                  | 18.68                  | 18.75                  | 0-2                          | 0        |
|                                       | 50      | 25        | 18.77                  | 18.71                  | 18.73                  |                              | 0        |
|                                       | 50      | 50        | 18.72                  | 18.64                  | 18.69                  |                              | 0        |
|                                       | 100     | 0         | 18.77                  | 18.65                  | 18.71                  | 0                            |          |
| 64QAM                                 | 1       | 0         | 18.72                  | 18.75                  | 18.86                  | 0-2                          | 0        |
|                                       | 1       | 50        | 18.64                  | 18.73                  | 18.59                  |                              | 0        |
|                                       | 1       | 99        | 18.58                  | 18.82                  | 18.74                  |                              | 0        |
|                                       | 50      | 0         | 18.87                  | 18.70                  | 18.77                  | 0-3                          | 0        |
|                                       | 50      | 25        | 18.82                  | 18.93                  | 18.75                  |                              | 0        |
|                                       | 50      | 50        | 18.79                  | 18.65                  | 18.76                  |                              | 0        |
|                                       | 100     | 0         | 18.77                  | 18.64                  | 18.77                  | 0                            |          |

|                                         |                                                                                     |                               |                       |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|-----------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  |                               | SAR EVALUATION REPORT |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                       |                                                                                       | Page 50 of 176                  |

Table 9-37

## LTE Band 66 (AWS) Reduced Conducted Powers - 15 MHz Bandwidth - Grip Sensor Active

| 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         | 18.89                  | 18.77                  | 18.84                  | 0                            | 0        |
|                                       | 1       | 36        | 18.88                  | 18.88                  | 18.87                  |                              | 0        |
|                                       | 1       | 74        | 18.82                  | 18.82                  | 18.78                  |                              | 0        |
|                                       | 36      | 0         | 19.03                  | 18.89                  | 18.97                  | 0-1                          | 0        |
|                                       | 36      | 18        | 18.97                  | 18.91                  | 18.94                  |                              | 0        |
|                                       | 36      | 37        | 18.91                  | 18.88                  | 18.93                  |                              | 0        |
|                                       | 75      | 0         | 18.96                  | 18.96                  | 18.87                  |                              | 0        |
| 16QAM                                 | 1       | 0         | 19.20                  | 19.14                  | 18.95                  | 0-1                          | 0        |
|                                       | 1       | 36        | 19.23                  | 18.97                  | 19.20                  |                              | 0        |
|                                       | 1       | 74        | 19.04                  | 19.07                  | 19.08                  |                              | 0        |
|                                       | 36      | 0         | 19.08                  | 19.02                  | 19.03                  | 0-2                          | 0        |
|                                       | 36      | 18        | 19.06                  | 18.91                  | 18.98                  |                              | 0        |
|                                       | 36      | 37        | 19.00                  | 18.90                  | 18.97                  |                              | 0        |
|                                       | 75      | 0         | 19.04                  | 18.92                  | 18.95                  |                              | 0        |
| 64QAM                                 | 1       | 0         | 19.09                  | 19.08                  | 19.05                  | 0-2                          | 0        |
|                                       | 1       | 36        | 19.29                  | 19.03                  | 19.08                  |                              | 0        |
|                                       | 1       | 74        | 19.20                  | 19.20                  | 18.57                  |                              | 0        |
|                                       | 36      | 0         | 19.06                  | 19.03                  | 19.03                  | 0-3                          | 0        |
|                                       | 36      | 18        | 19.20                  | 18.94                  | 19.02                  |                              | 0        |
|                                       | 36      | 37        | 19.02                  | 18.93                  | 19.04                  |                              | 0        |
|                                       | 75      | 0         | 19.10                  | 18.93                  | 18.94                  |                              | 0        |

Table 9-38

## LTE Band 66 (AWS) Reduced Conducted Powers - 10 MHz Bandwidth - Grip Sensor Active

| 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         | 18.95                  | 18.64                  | 18.45                  | 0                            | 0        |
|                                       | 1       | 25        | 18.79                  | 18.66                  | 18.54                  |                              | 0        |
|                                       | 1       | 49        | 18.54                  | 18.56                  | 18.57                  |                              | 0        |
|                                       | 25      | 0         | 18.92                  | 18.72                  | 18.76                  | 0-1                          | 0        |
|                                       | 25      | 12        | 18.97                  | 18.80                  | 18.80                  |                              | 0        |
|                                       | 25      | 25        | 18.60                  | 18.78                  | 18.71                  |                              | 0        |
|                                       | 50      | 0         | 18.67                  | 18.77                  | 18.74                  |                              | 0        |
| 16QAM                                 | 1       | 0         | 18.91                  | 18.89                  | 18.96                  | 0-1                          | 0        |
|                                       | 1       | 25        | 19.10                  | 18.89                  | 18.82                  |                              | 0        |
|                                       | 1       | 49        | 19.06                  | 19.04                  | 18.93                  |                              | 0        |
|                                       | 25      | 0         | 18.89                  | 18.80                  | 18.79                  | 0-2                          | 0        |
|                                       | 25      | 12        | 18.88                  | 18.82                  | 18.79                  |                              | 0        |
|                                       | 25      | 25        | 18.83                  | 18.77                  | 18.73                  |                              | 0        |
|                                       | 50      | 0         | 18.84                  | 18.79                  | 18.73                  |                              | 0        |
| 64QAM                                 | 1       | 0         | 19.02                  | 18.92                  | 18.84                  | 0-2                          | 0        |
|                                       | 1       | 25        | 18.94                  | 18.88                  | 18.84                  |                              | 0        |
|                                       | 1       | 49        | 19.14                  | 18.05                  | 19.04                  |                              | 0        |
|                                       | 25      | 0         | 18.93                  | 18.83                  | 18.75                  | 0-3                          | 0        |
|                                       | 25      | 12        | 18.90                  | 18.80                  | 18.82                  |                              | 0        |
|                                       | 25      | 25        | 18.87                  | 18.84                  | 18.75                  |                              | 0        |
|                                       | 50      | 0         | 18.93                  | 18.84                  | 18.79                  |                              | 0        |

|                                         |                                                                                     |                               |                       |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|-----------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  |                               | SAR EVALUATION REPORT |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                       |                                                                                       | Page 51 of 176                  |

Table 9-39

**LTE Band 66 (AWS) Reduced Conducted Powers - 5 MHz Bandwidth - Grip Sensor Active**

| LTE Band 66 (AWS)<br>5 MHz Bandwidth |         |           |                        |                        |                        |                              |          |
|--------------------------------------|---------|-----------|------------------------|------------------------|------------------------|------------------------------|----------|
| Modulation                           | RB Size | RB Offset | Low Channel            | Mid Channel            | High Channel           | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                      |         |           | 131997<br>(1712.5 MHz) | 132322<br>(1745.0 MHz) | 132647<br>(1777.5 MHz) |                              |          |
|                                      |         |           | Conducted Power [dBm]  |                        |                        |                              |          |
| QPSK                                 | 1       | 0         | 18.77                  | 18.55                  | 18.55                  | 0                            | 0        |
|                                      | 1       | 12        | 18.78                  | 18.60                  | 18.67                  |                              | 0        |
|                                      | 1       | 24        | 18.83                  | 18.66                  | 18.64                  |                              | 0        |
|                                      | 12      | 0         | 18.88                  | 18.65                  | 18.63                  | 0-1                          | 0        |
|                                      | 12      | 6         | 18.94                  | 18.79                  | 18.70                  |                              | 0        |
|                                      | 12      | 13        | 18.93                  | 18.70                  | 18.73                  |                              | 0        |
| 16QAM                                | 25      | 0         | 18.93                  | 18.73                  | 18.74                  | 0-1                          | 0        |
|                                      | 1       | 0         | 19.11                  | 18.88                  | 18.86                  |                              | 0        |
|                                      | 1       | 12        | 19.05                  | 18.97                  | 18.94                  |                              | 0        |
|                                      | 1       | 24        | 19.16                  | 18.95                  | 18.96                  | 0-2                          | 0        |
|                                      | 12      | 0         | 18.96                  | 18.75                  | 18.68                  |                              | 0        |
|                                      | 12      | 6         | 19.01                  | 18.85                  | 18.79                  |                              | 0        |
| 64QAM                                | 12      | 13        | 18.97                  | 18.76                  | 18.80                  | 0-2                          | 0        |
|                                      | 25      | 0         | 18.93                  | 18.74                  | 18.75                  |                              | 0        |
|                                      | 1       | 0         | 19.09                  | 18.80                  | 18.85                  |                              | 0-2      |
|                                      | 1       | 12        | 19.14                  | 18.91                  | 18.89                  | 0                            |          |
|                                      | 1       | 24        | 19.12                  | 18.93                  | 18.90                  | 0                            |          |
|                                      | 64QAM   | 12        | 0                      | 18.95                  | 18.73                  | 18.65                        | 0-3      |
| 12                                   |         | 6         | 19.05                  | 18.77                  | 18.80                  | 0                            |          |
| 12                                   |         | 13        | 18.99                  | 18.83                  | 18.76                  | 0                            |          |
| 25                                   |         | 0         | 18.93                  | 18.72                  | 18.77                  | 0                            |          |

Table 9-40

**LTE Band 66 (AWS) Reduced Conducted Powers - 3 MHz Bandwidth - Grip Sensor Active**

| 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         | 18.77                  | 18.55                  | 18.84                  | 0                            | 0        |
|                                      | 1       | 7         | 18.76                  | 18.70                  | 18.59                  |                              | 0        |
|                                      | 1       | 14        | 18.74                  | 18.63                  | 18.65                  |                              | 0        |
|                                      | 8       | 0         | 18.75                  | 18.57                  | 18.65                  | 0-1                          | 0        |
|                                      | 8       | 4         | 18.94                  | 18.67                  | 18.69                  |                              | 0        |
|                                      | 8       | 7         | 18.92                  | 18.65                  | 18.74                  |                              | 0        |
| 16QAM                                | 15      | 0         | 18.91                  | 18.65                  | 18.69                  | 0-1                          | 0        |
|                                      | 1       | 0         | 18.91                  | 18.85                  | 18.81                  |                              | 0        |
|                                      | 1       | 7         | 19.10                  | 18.89                  | 18.86                  |                              | 0        |
|                                      | 1       | 14        | 18.90                  | 18.83                  | 18.74                  | 0-2                          | 0        |
|                                      | 8       | 0         | 19.12                  | 18.73                  | 18.53                  |                              | 0        |
|                                      | 8       | 4         | 19.13                  | 18.74                  | 18.85                  |                              | 0        |
| 64QAM                                | 8       | 7         | 18.90                  | 18.77                  | 18.91                  | 0-2                          | 0        |
|                                      | 15      | 0         | 18.93                  | 18.70                  | 18.72                  |                              | 0        |
|                                      | 1       | 0         | 19.16                  | 18.54                  | 18.89                  |                              | 0-2      |
|                                      | 1       | 7         | 19.02                  | 18.69                  | 18.85                  | 0                            |          |
|                                      | 1       | 14        | 19.10                  | 18.69                  | 19.23                  | 0-3                          |          |
|                                      | 8       | 0         | 19.12                  | 18.57                  | 18.71                  |                              | 0        |
| 8                                    | 4       | 18.87     | 18.63                  | 18.86                  | 0                      |                              |          |
| 8                                    | 7       | 19.06     | 18.65                  | 18.78                  | 0                      |                              |          |
|                                      | 15      | 0         | 18.90                  | 18.66                  | 18.78                  |                              | 0        |

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 52 of 176                  |

Table 9-41

## LTE Band 66 (AWS) Reduced Conducted Powers - 1.4 MHz Bandwidth – Grip Sensor Active

| 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         | 18.69                  | 18.59                  | 18.37                  | 0                            | 0        |
|                                        | 1       | 2         | 18.87                  | 18.70                  | 18.42                  |                              | 0        |
|                                        | 1       | 5         | 18.74                  | 18.85                  | 18.35                  |                              | 0        |
|                                        | 3       | 0         | 18.77                  | 18.76                  | 18.40                  |                              | 0        |
|                                        | 3       | 2         | 18.87                  | 18.69                  | 18.40                  |                              | 0        |
|                                        | 3       | 3         | 18.73                  | 18.65                  | 18.48                  |                              | 0        |
|                                        | 6       | 0         | 18.80                  | 18.67                  | 18.52                  | 0-1                          | 0        |
| 16QAM                                  | 1       | 0         | 19.05                  | 18.58                  | 18.42                  | 0-1                          | 0        |
|                                        | 1       | 2         | 19.21                  | 18.67                  | 18.75                  |                              | 0        |
|                                        | 1       | 5         | 19.04                  | 18.57                  | 18.50                  |                              | 0        |
|                                        | 3       | 0         | 18.85                  | 18.75                  | 18.55                  |                              | 0        |
|                                        | 3       | 2         | 18.90                  | 18.74                  | 18.72                  |                              | 0        |
|                                        | 3       | 3         | 19.12                  | 18.58                  | 18.61                  |                              | 0        |
|                                        | 6       | 0         | 18.95                  | 18.81                  | 18.35                  | 0-2                          | 0        |
| 64QAM                                  | 1       | 0         | 19.09                  | 18.76                  | 18.72                  | 0-2                          | 0        |
|                                        | 1       | 2         | 18.99                  | 18.80                  | 18.50                  |                              | 0        |
|                                        | 1       | 5         | 18.89                  | 18.92                  | 18.47                  |                              | 0        |
|                                        | 3       | 0         | 18.85                  | 18.93                  | 18.57                  |                              | 0        |
|                                        | 3       | 2         | 18.71                  | 18.61                  | 18.45                  |                              | 0        |
|                                        | 3       | 3         | 19.02                  | 18.88                  | 18.65                  |                              | 0        |
|                                        | 6       | 0         | 18.70                  | 18.65                  | 18.72                  | 0-3                          | 0        |

## 9.3.7

## LTE Band 25 (PCS)

Table 9-42

## LTE Band 25 (PCS) Max Conducted Powers - 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         | 24.10                 | 23.88                 | 23.81                 | 0                            | 0        |
|                                       | 1       | 50        | 24.06                 | 23.95                 | 23.82                 |                              | 0        |
|                                       | 1       | 99        | 24.08                 | 23.87                 | 23.83                 |                              | 0        |
|                                       | 50      | 0         | 23.13                 | 22.93                 | 22.89                 | 0-1                          | 1        |
|                                       | 50      | 25        | 23.17                 | 23.03                 | 23.01                 |                              | 1        |
|                                       | 50      | 50        | 23.20                 | 22.80                 | 23.05                 |                              | 1        |
|                                       | 100     | 0         | 23.18                 | 22.98                 | 22.91                 |                              | 1        |
| 16QAM                                 | 1       | 0         | 23.41                 | 23.16                 | 23.08                 | 0-1                          | 1        |
|                                       | 1       | 50        | 23.45                 | 23.21                 | 23.11                 |                              | 1        |
|                                       | 1       | 99        | 23.36                 | 23.24                 | 23.20                 |                              | 1        |
|                                       | 50      | 0         | 22.11                 | 21.93                 | 21.85                 | 0-2                          | 2        |
|                                       | 50      | 25        | 22.20                 | 21.98                 | 21.90                 |                              | 2        |
|                                       | 50      | 50        | 22.19                 | 21.81                 | 21.99                 |                              | 2        |
|                                       | 100     | 0         | 22.11                 | 21.95                 | 21.89                 |                              | 2        |
| 64QAM                                 | 1       | 0         | 22.33                 | 22.19                 | 22.02                 | 0-2                          | 2        |
|                                       | 1       | 50        | 22.31                 | 22.21                 | 22.33                 |                              | 2        |
|                                       | 1       | 99        | 22.37                 | 22.14                 | 22.14                 |                              | 2        |
|                                       | 50      | 0         | 21.13                 | 20.98                 | 20.88                 | 0-3                          | 3        |
|                                       | 50      | 25        | 21.18                 | 21.05                 | 20.97                 |                              | 3        |
|                                       | 50      | 50        | 21.20                 | 20.78                 | 20.95                 |                              | 3        |
|                                       | 100     | 0         | 21.17                 | 20.97                 | 20.88                 |                              | 3        |

FCC ID: A3LSMF900F



SAR EVALUATION REPORT



Approved by:  
Quality Manager

Document S/N:

Test Dates:

DUT Type:

1M1901280020-01-R1.A3L

2/11/19 - 3/10/19

Portable Handset

Page 53 of 176

**Table 9-43**  
**LTE Band 25 (PCS) Max Conducted Powers - 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         | 24.06                 | 24.03                 | 23.99                 | 0                            | 0        |
|                                       | 1       | 36        | 24.14                 | 23.92                 | 24.03                 |                              | 0        |
|                                       | 1       | 74        | 24.19                 | 23.97                 | 23.90                 |                              | 0        |
|                                       | 36      | 0         | 23.08                 | 23.03                 | 23.03                 | 0-1                          | 1        |
|                                       | 36      | 18        | 23.30                 | 23.16                 | 23.04                 |                              | 1        |
|                                       | 36      | 37        | 23.27                 | 23.05                 | 23.07                 |                              | 1        |
|                                       | 75      | 0         | 23.26                 | 23.08                 | 22.98                 |                              | 1        |
| 16QAM                                 | 1       | 0         | 23.35                 | 23.31                 | 23.19                 | 0-1                          | 1        |
|                                       | 1       | 36        | 23.40                 | 23.20                 | 23.19                 |                              | 1        |
|                                       | 1       | 74        | 23.47                 | 23.16                 | 23.27                 |                              | 1        |
|                                       | 36      | 0         | 22.12                 | 22.09                 | 21.96                 | 0-2                          | 2        |
|                                       | 36      | 18        | 22.26                 | 22.11                 | 22.04                 |                              | 2        |
|                                       | 36      | 37        | 22.29                 | 22.12                 | 22.07                 |                              | 2        |
|                                       | 75      | 0         | 22.24                 | 22.08                 | 22.00                 |                              | 2        |
| 64QAM                                 | 1       | 0         | 22.30                 | 22.27                 | 22.16                 | 0-2                          | 2        |
|                                       | 1       | 36        | 22.41                 | 22.21                 | 22.16                 |                              | 2        |
|                                       | 1       | 74        | 22.29                 | 22.17                 | 22.14                 |                              | 2        |
|                                       | 36      | 0         | 21.23                 | 21.11                 | 20.97                 | 0-3                          | 3        |
|                                       | 36      | 18        | 21.27                 | 21.14                 | 21.06                 |                              | 3        |
|                                       | 36      | 37        | 21.33                 | 21.16                 | 21.09                 |                              | 3        |
|                                       | 75      | 0         | 21.19                 | 21.08                 | 21.02                 |                              | 3        |

**Table 9-44**  
**LTE Band 25 (PCS) Max Conducted Powers - 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         | 24.08                 | 24.05                 | 23.72                 | 0                            | 0        |
|                                       | 1       | 25        | 23.96                 | 23.76                 | 23.76                 |                              | 0        |
|                                       | 1       | 49        | 23.97                 | 23.92                 | 23.79                 |                              | 0        |
|                                       | 25      | 0         | 23.10                 | 22.92                 | 22.87                 | 0-1                          | 1        |
|                                       | 25      | 12        | 23.14                 | 22.96                 | 22.86                 |                              | 1        |
|                                       | 25      | 25        | 23.15                 | 22.98                 | 22.88                 |                              | 1        |
|                                       | 50      | 0         | 23.13                 | 22.96                 | 22.86                 |                              | 1        |
| 16QAM                                 | 1       | 0         | 23.21                 | 23.04                 | 22.96                 | 0-1                          | 1        |
|                                       | 1       | 25        | 23.27                 | 23.22                 | 23.01                 |                              | 1        |
|                                       | 1       | 49        | 22.93                 | 23.31                 | 23.08                 |                              | 1        |
|                                       | 25      | 0         | 22.11                 | 21.91                 | 21.78                 | 0-2                          | 2        |
|                                       | 25      | 12        | 22.04                 | 22.04                 | 21.86                 |                              | 2        |
|                                       | 25      | 25        | 22.06                 | 21.98                 | 21.87                 |                              | 2        |
|                                       | 50      | 0         | 22.02                 | 21.93                 | 21.86                 |                              | 2        |
| 64QAM                                 | 1       | 0         | 22.08                 | 22.26                 | 21.66                 | 0-2                          | 2        |
|                                       | 1       | 25        | 22.13                 | 22.01                 | 21.94                 |                              | 2        |
|                                       | 1       | 49        | 22.20                 | 21.95                 | 22.07                 |                              | 2        |
|                                       | 25      | 0         | 21.14                 | 20.92                 | 20.82                 | 0-3                          | 3        |
|                                       | 25      | 12        | 21.11                 | 20.81                 | 20.90                 |                              | 3        |
|                                       | 25      | 25        | 21.08                 | 20.94                 | 20.89                 |                              | 3        |
|                                       | 50      | 0         | 21.07                 | 20.93                 | 20.87                 |                              | 3        |

|                                                |                                                                                     |                                      |                                                                                       |                                        |
|------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMF900F                             |  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                             | <b>DUT Type:</b><br>Portable Handset | Page 54 of 176                                                                        |                                        |

**Table 9-45**  
**LTE Band 25 (PCS) Max Conducted Powers - 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         | 23.95                 | 23.84                 | 23.73                 | 0                            | 0        |
|                                      | 1       | 12        | 24.02                 | 23.91                 | 23.82                 |                              | 0        |
|                                      | 1       | 24        | 24.10                 | 23.89                 | 23.81                 |                              | 0        |
|                                      | 12      | 0         | 23.09                 | 22.91                 | 22.88                 | 0-1                          | 1        |
|                                      | 12      | 6         | 23.15                 | 22.97                 | 22.92                 |                              | 1        |
|                                      | 12      | 13        | 23.17                 | 22.96                 | 22.90                 |                              | 1        |
|                                      | 25      | 0         | 23.10                 | 22.91                 | 22.91                 |                              | 1        |
| 16QAM                                | 1       | 0         | 23.14                 | 23.30                 | 23.02                 | 0-1                          | 1        |
|                                      | 1       | 12        | 23.26                 | 23.10                 | 22.94                 |                              | 1        |
|                                      | 1       | 24        | 23.26                 | 23.07                 | 23.11                 |                              | 1        |
|                                      | 12      | 0         | 22.08                 | 21.92                 | 21.85                 | 0-2                          | 2        |
|                                      | 12      | 6         | 22.15                 | 22.01                 | 21.95                 |                              | 2        |
|                                      | 12      | 13        | 22.10                 | 21.99                 | 21.93                 |                              | 2        |
|                                      | 25      | 0         | 22.07                 | 21.92                 | 21.73                 |                              | 2        |
| 64QAM                                | 1       | 0         | 22.19                 | 22.13                 | 21.83                 | 0-2                          | 2        |
|                                      | 1       | 12        | 22.22                 | 22.11                 | 22.06                 |                              | 2        |
|                                      | 1       | 24        | 22.29                 | 22.09                 | 22.10                 |                              | 2        |
|                                      | 12      | 0         | 21.09                 | 20.94                 | 20.91                 | 0-3                          | 3        |
|                                      | 12      | 6         | 21.15                 | 21.00                 | 20.98                 |                              | 3        |
|                                      | 12      | 13        | 21.14                 | 20.99                 | 20.96                 |                              | 3        |
|                                      | 25      | 0         | 21.07                 | 20.89                 | 20.94                 |                              | 3        |

**Table 9-46**  
**LTE Band 25 (PCS) Max Conducted Powers - 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         | 23.86                 | 23.80                 | 23.73                 | 0                            | 0        |
|                                      | 1       | 7         | 23.97                 | 23.81                 | 23.82                 |                              | 0        |
|                                      | 1       | 14        | 23.99                 | 23.85                 | 23.82                 |                              | 0        |
|                                      | 8       | 0         | 23.12                 | 22.89                 | 22.83                 | 0-1                          | 1        |
|                                      | 8       | 4         | 23.09                 | 22.95                 | 22.91                 |                              | 1        |
|                                      | 8       | 7         | 23.08                 | 22.96                 | 22.92                 |                              | 1        |
| 16QAM                                | 15      | 0         | 23.11                 | 22.95                 | 22.88                 | 0-1                          | 1        |
|                                      | 1       | 0         | 23.15                 | 22.98                 | 23.09                 |                              | 1        |
|                                      | 1       | 7         | 23.23                 | 23.00                 | 23.06                 |                              | 1        |
|                                      | 1       | 14        | 23.21                 | 23.10                 | 23.13                 | 0-2                          | 1        |
|                                      | 8       | 0         | 22.11                 | 21.98                 | 21.90                 |                              | 2        |
|                                      | 8       | 4         | 22.15                 | 22.02                 | 22.01                 |                              | 2        |
| 64QAM                                | 8       | 7         | 22.12                 | 22.00                 | 21.91                 | 0-2                          | 2        |
|                                      | 15      | 0         | 22.07                 | 21.93                 | 21.87                 |                              | 2        |
|                                      | 1       | 0         | 22.14                 | 21.84                 | 21.90                 | 0-2                          | 2        |
|                                      | 1       | 7         | 22.07                 | 21.99                 | 22.18                 |                              | 2        |
|                                      | 1       | 14        | 22.55                 | 22.15                 | 22.06                 | 0-3                          | 2        |
|                                      | 8       | 0         | 21.11                 | 20.99                 | 20.88                 |                              | 3        |
| 8                                    | 4       | 21.13     | 21.05                 | 20.97                 | 3                     |                              |          |
| 8                                    | 7       | 21.08     | 20.99                 | 20.92                 | 3                     |                              |          |
|                                      | 15      | 0         | 21.07                 | 20.92                 | 20.89                 |                              | 3        |

|                                                |                                                                                     |                                      |                                                                                       |                                        |
|------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMF900F                             |  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                             | <b>DUT Type:</b><br>Portable Handset | Page 55 of 176                                                                        |                                        |

**Table 9-47**  
**LTE Band 25 (PCS) Max Conducted Powers -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         | 23.89                 | 23.78                 | 23.76                 | 0                            | 0        |
|                                        | 1       | 2         | 24.01                 | 23.96                 | 23.79                 |                              | 0        |
|                                        | 1       | 5         | 23.92                 | 24.03                 | 23.72                 |                              | 0        |
|                                        | 3       | 0         | 23.90                 | 23.76                 | 23.77                 |                              | 0        |
|                                        | 3       | 2         | 23.93                 | 23.90                 | 23.84                 |                              | 0        |
|                                        | 3       | 3         | 23.95                 | 23.86                 | 23.70                 |                              | 0        |
|                                        | 6       | 0         | 23.02                 | 22.89                 | 22.84                 | 0-1                          | 1        |
| 16QAM                                  | 1       | 0         | 23.31                 | 23.01                 | 22.97                 | 0-1                          | 1        |
|                                        | 1       | 2         | 23.08                 | 23.13                 | 23.03                 |                              | 1        |
|                                        | 1       | 5         | 23.16                 | 23.05                 | 23.06                 |                              | 1        |
|                                        | 3       | 0         | 23.05                 | 22.98                 | 22.88                 |                              | 1        |
|                                        | 3       | 2         | 23.17                 | 23.01                 | 22.96                 |                              | 1        |
|                                        | 3       | 3         | 23.13                 | 23.01                 | 22.94                 |                              | 1        |
|                                        | 6       | 0         | 22.19                 | 21.94                 | 21.91                 | 0-2                          | 2        |
| 64QAM                                  | 1       | 0         | 22.42                 | 22.03                 | 22.03                 | 0-2                          | 2        |
|                                        | 1       | 2         | 22.13                 | 22.31                 | 22.15                 |                              | 2        |
|                                        | 1       | 5         | 22.19                 | 22.06                 | 21.85                 |                              | 2        |
|                                        | 3       | 0         | 21.95                 | 21.79                 | 21.93                 |                              | 2        |
|                                        | 3       | 2         | 22.18                 | 22.06                 | 21.96                 |                              | 2        |
|                                        | 3       | 3         | 22.17                 | 21.97                 | 22.02                 |                              | 2        |
|                                        | 6       | 0         | 21.03                 | 20.82                 | 21.05                 | 0-3                          | 3        |

**Table 9-48**  
**LTE Band 25 (PCS) Reduced Conducted Powers - 20 MHz Bandwidth - Hotspot Mode Active**

| 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         | 20.43                 | 20.36                 | 20.33                 | 0                            | 0        |
|                                       | 1       | 50        | 20.45                 | 20.25                 | 20.08                 |                              | 0        |
|                                       | 1       | 99        | 20.55                 | 20.24                 | 20.21                 |                              | 0        |
|                                       | 50      | 0         | 20.56                 | 20.39                 | 20.32                 | 0-1                          | 0        |
|                                       | 50      | 25        | 20.63                 | 20.43                 | 20.34                 |                              | 0        |
|                                       | 50      | 50        | 20.59                 | 20.47                 | 20.38                 |                              | 0        |
|                                       | 100     | 0         | 20.50                 | 20.33                 | 20.32                 |                              | 0        |
| 16QAM                                 | 1       | 0         | 20.65                 | 20.65                 | 20.43                 | 0-1                          | 0        |
|                                       | 1       | 50        | 20.58                 | 20.78                 | 20.19                 |                              | 0        |
|                                       | 1       | 99        | 20.72                 | 20.35                 | 20.49                 |                              | 0        |
|                                       | 50      | 0         | 20.53                 | 20.41                 | 20.31                 | 0-2                          | 0        |
|                                       | 50      | 25        | 20.60                 | 20.48                 | 20.35                 |                              | 0        |
|                                       | 50      | 50        | 20.66                 | 20.46                 | 20.38                 |                              | 0        |
|                                       | 100     | 0         | 20.55                 | 20.43                 | 20.32                 |                              | 0        |
| 64QAM                                 | 1       | 0         | 20.65                 | 20.64                 | 20.44                 | 0-2                          | 0        |
|                                       | 1       | 50        | 20.72                 | 20.42                 | 20.46                 |                              | 0        |
|                                       | 1       | 99        | 20.49                 | 20.55                 | 20.51                 |                              | 0        |
|                                       | 50      | 0         | 20.61                 | 20.46                 | 20.32                 | 0-3                          | 0        |
|                                       | 50      | 25        | 20.65                 | 20.49                 | 20.40                 |                              | 0        |
|                                       | 50      | 50        | 20.64                 | 20.53                 | 20.39                 |                              | 0        |
|                                       | 100     | 0         | 20.61                 | 20.46                 | 20.35                 |                              | 0        |

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset | Page 56 of 176                                                                        |                                 |

Table 9-49

## LTE Band 25 (PCS) Reduced Conducted Powers - 15 MHz Bandwidth - Hotspot Mode Active

| 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         | 20.35                 | 20.23                 | 20.20                 | 0                            | 0        |
|                                       | 1       | 36        | 20.43                 | 20.11                 | 20.13                 |                              | 0        |
|                                       | 1       | 74        | 20.48                 | 20.18                 | 20.22                 |                              | 0        |
|                                       | 36      | 0         | 20.56                 | 20.27                 | 20.39                 | 0-1                          | 0        |
|                                       | 36      | 18        | 20.56                 | 20.33                 | 20.35                 |                              | 0        |
|                                       | 36      | 37        | 20.59                 | 20.31                 | 20.35                 |                              | 0        |
|                                       | 75      | 0         | 20.58                 | 20.32                 | 20.36                 |                              | 0        |
| 16QAM                                 | 1       | 0         | 20.64                 | 20.47                 | 20.50                 | 0-1                          | 0        |
|                                       | 1       | 36        | 20.61                 | 20.54                 | 20.44                 |                              | 0        |
|                                       | 1       | 74        | 20.70                 | 20.48                 | 20.43                 |                              | 0        |
|                                       | 36      | 0         | 20.48                 | 20.35                 | 20.27                 | 0-2                          | 0        |
|                                       | 36      | 18        | 20.57                 | 20.32                 | 20.33                 |                              | 0        |
|                                       | 36      | 37        | 20.50                 | 20.36                 | 20.40                 |                              | 0        |
|                                       | 75      | 0         | 20.57                 | 20.34                 | 20.31                 |                              | 0        |
| 64QAM                                 | 1       | 0         | 20.62                 | 20.51                 | 20.43                 | 0-2                          | 0        |
|                                       | 1       | 36        | 20.65                 | 20.46                 | 20.40                 |                              | 0        |
|                                       | 1       | 74        | 20.72                 | 20.45                 | 20.46                 |                              | 0        |
|                                       | 36      | 0         | 20.57                 | 20.31                 | 20.32                 | 0-3                          | 0        |
|                                       | 36      | 18        | 20.62                 | 20.42                 | 20.35                 |                              | 0        |
|                                       | 36      | 37        | 20.64                 | 20.41                 | 20.40                 |                              | 0        |
|                                       | 75      | 0         | 20.56                 | 20.33                 | 20.35                 |                              | 0        |

Table 9-50

## LTE Band 25 (PCS) Reduced Conducted Powers - 10 MHz Bandwidth - Hotspot Mode Active

| 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         | 20.31                 | 20.09                 | 20.00                 | 0                            | 0        |
|                                       | 1       | 25        | 20.31                 | 20.06                 | 20.04                 |                              | 0        |
|                                       | 1       | 49        | 20.30                 | 20.08                 | 20.12                 |                              | 0        |
|                                       | 25      | 0         | 20.36                 | 20.21                 | 20.16                 | 0-1                          | 0        |
|                                       | 25      | 12        | 20.49                 | 20.25                 | 20.18                 |                              | 0        |
|                                       | 25      | 25        | 20.43                 | 20.27                 | 20.20                 |                              | 0        |
|                                       | 50      | 0         | 20.38                 | 20.27                 | 20.20                 |                              | 0        |
| 16QAM                                 | 1       | 0         | 20.55                 | 20.14                 | 20.18                 | 0-1                          | 0        |
|                                       | 1       | 25        | 20.47                 | 20.11                 | 20.36                 |                              | 0        |
|                                       | 1       | 49        | 20.39                 | 20.12                 | 20.36                 |                              | 0        |
|                                       | 25      | 0         | 20.45                 | 20.22                 | 20.14                 | 0-2                          | 0        |
|                                       | 25      | 12        | 20.39                 | 20.25                 | 20.18                 |                              | 0        |
|                                       | 25      | 25        | 20.51                 | 20.27                 | 20.16                 |                              | 0        |
|                                       | 50      | 0         | 20.38                 | 20.24                 | 20.22                 |                              | 0        |
| 64QAM                                 | 1       | 0         | 20.52                 | 20.20                 | 20.27                 | 0-2                          | 0        |
|                                       | 1       | 25        | 20.51                 | 20.37                 | 20.47                 |                              | 0        |
|                                       | 1       | 49        | 20.51                 | 20.42                 | 20.39                 |                              | 0        |
|                                       | 25      | 0         | 20.41                 | 20.33                 | 20.19                 | 0-3                          | 0        |
|                                       | 25      | 12        | 20.43                 | 20.28                 | 20.20                 |                              | 0        |
|                                       | 25      | 25        | 20.41                 | 20.27                 | 20.25                 |                              | 0        |
|                                       | 50      | 0         | 20.43                 | 20.31                 | 20.23                 |                              | 0        |

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 57 of 176                  |

**Table 9-51**

**LTE Band 25 (PCS) Reduced Conducted Powers - 5 MHz Bandwidth - Hotspot Mode Active**

| 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         | 20.31                 | 20.10                 | 19.95                 | 0                            | 0        |
|                                      | 1       | 12        | 20.31                 | 20.18                 | 20.04                 |                              | 0        |
|                                      | 1       | 24        | 20.33                 | 20.25                 | 20.03                 |                              | 0        |
|                                      | 12      | 0         | 20.36                 | 20.16                 | 20.12                 | 0-1                          | 0        |
|                                      | 12      | 6         | 20.41                 | 20.27                 | 20.23                 |                              | 0        |
|                                      | 12      | 13        | 20.42                 | 20.31                 | 20.21                 |                              | 0        |
|                                      | 25      | 0         | 20.42                 | 20.26                 | 20.21                 |                              | 0        |
| 16QAM                                | 1       | 0         | 20.47                 | 20.48                 | 20.26                 | 0-1                          | 0        |
|                                      | 1       | 12        | 20.55                 | 20.45                 | 20.34                 |                              | 0        |
|                                      | 1       | 24        | 20.41                 | 20.34                 | 20.27                 |                              | 0        |
|                                      | 12      | 0         | 20.37                 | 20.25                 | 20.11                 | 0-2                          | 0        |
|                                      | 12      | 6         | 20.46                 | 20.37                 | 20.24                 |                              | 0        |
|                                      | 12      | 13        | 20.47                 | 20.38                 | 20.25                 |                              | 0        |
|                                      | 25      | 0         | 20.41                 | 20.23                 | 20.20                 |                              | 0        |
| 64QAM                                | 1       | 0         | 20.48                 | 20.36                 | 20.21                 | 0-2                          | 0        |
|                                      | 1       | 12        | 20.59                 | 20.44                 | 20.31                 |                              | 0        |
|                                      | 1       | 24        | 20.57                 | 20.46                 | 20.28                 |                              | 0        |
|                                      | 12      | 0         | 20.44                 | 20.30                 | 20.21                 | 0-3                          | 0        |
|                                      | 12      | 6         | 20.48                 | 20.42                 | 20.29                 |                              | 0        |
|                                      | 12      | 13        | 20.49                 | 20.37                 | 20.28                 |                              | 0        |
|                                      | 25      | 0         | 20.45                 | 20.30                 | 20.20                 |                              | 0        |

**Table 9-52**

**LTE Band 25 (PCS) Reduced Conducted Powers - 3 MHz Bandwidth - Hotspot Mode Active**

| 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         | 20.22                 | 20.26                 | 19.94                 | 0                            | 0        |
|                                      | 1       | 7         | 20.25                 | 20.27                 | 20.07                 |                              | 0        |
|                                      | 1       | 14        | 20.23                 | 20.14                 | 20.08                 |                              | 0        |
|                                      | 8       | 0         | 20.36                 | 20.18                 | 20.12                 | 0-1                          | 0        |
|                                      | 8       | 4         | 20.43                 | 20.28                 | 20.21                 |                              | 0        |
|                                      | 8       | 7         | 20.37                 | 20.26                 | 20.19                 |                              | 0        |
|                                      | 15      | 0         | 20.46                 | 20.29                 | 20.24                 |                              | 0        |
| 16QAM                                | 1       | 0         | 20.40                 | 20.29                 | 20.22                 | 0-1                          | 0        |
|                                      | 1       | 7         | 20.48                 | 20.52                 | 20.07                 |                              | 0        |
|                                      | 1       | 14        | 20.57                 | 20.42                 | 20.38                 |                              | 0        |
|                                      | 8       | 0         | 20.46                 | 20.15                 | 20.19                 | 0-2                          | 0        |
|                                      | 8       | 4         | 20.49                 | 20.33                 | 20.19                 |                              | 0        |
|                                      | 8       | 7         | 20.43                 | 20.33                 | 20.28                 |                              | 0        |
|                                      | 15      | 0         | 20.39                 | 20.26                 | 20.19                 |                              | 0        |
| 64QAM                                | 1       | 0         | 20.33                 | 20.29                 | 20.20                 | 0-2                          | 0        |
|                                      | 1       | 7         | 20.53                 | 20.50                 | 20.24                 |                              | 0        |
|                                      | 1       | 14        | 20.49                 | 20.39                 | 20.32                 |                              | 0        |
|                                      | 8       | 0         | 20.42                 | 20.29                 | 20.25                 | 0-3                          | 0        |
|                                      | 8       | 4         | 20.51                 | 20.36                 | 20.26                 |                              | 0        |
|                                      | 8       | 7         | 20.48                 | 20.38                 | 20.27                 |                              | 0        |
|                                      | 15      | 0         | 20.31                 | 20.27                 | 20.20                 |                              | 0        |

|                                                |                                                                                     |                                      |                                                                                       |                                        |
|------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMF900F                             |  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                             | <b>DUT Type:</b><br>Portable Handset | Page 58 of 176                                                                        |                                        |

Table 9-53

## LTE Band 25 (PCS) Reduced Conducted Powers -1.4 MHz Bandwidth - Hotspot Mode Active

| 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         | 20.20                 | 20.04                 | 19.95                 | 0                            | 0        |
|                                        | 1       | 2         | 20.36                 | 20.10                 | 20.08                 |                              | 0        |
|                                        | 1       | 5         | 20.21                 | 20.06                 | 19.91                 |                              | 0        |
|                                        | 3       | 0         | 20.23                 | 20.15                 | 20.03                 |                              | 0        |
|                                        | 3       | 2         | 20.35                 | 20.14                 | 20.06                 |                              | 0        |
|                                        | 3       | 3         | 20.29                 | 20.03                 | 19.97                 |                              | 0        |
|                                        | 6       | 0         | 20.43                 | 20.20                 | 20.10                 | 0-1                          | 0        |
| 16QAM                                  | 1       | 0         | 20.67                 | 20.42                 | 20.25                 | 0-1                          | 0        |
|                                        | 1       | 2         | 20.44                 | 20.39                 | 20.29                 |                              | 0        |
|                                        | 1       | 5         | 20.38                 | 20.33                 | 20.37                 |                              | 0        |
|                                        | 3       | 0         | 20.44                 | 20.22                 | 20.13                 |                              | 0        |
|                                        | 3       | 2         | 20.43                 | 20.26                 | 20.22                 |                              | 0        |
|                                        | 3       | 3         | 20.42                 | 20.23                 | 20.13                 |                              | 0        |
|                                        | 6       | 0         | 20.28                 | 20.23                 | 20.16                 | 0-2                          | 0        |
| 64QAM                                  | 1       | 0         | 20.45                 | 20.53                 | 20.29                 | 0-2                          | 0        |
|                                        | 1       | 2         | 20.53                 | 20.56                 | 20.45                 |                              | 0        |
|                                        | 1       | 5         | 20.43                 | 20.24                 | 20.33                 |                              | 0        |
|                                        | 3       | 0         | 20.34                 | 20.28                 | 20.27                 |                              | 0        |
|                                        | 3       | 2         | 20.52                 | 20.37                 | 20.29                 |                              | 0        |
|                                        | 3       | 3         | 20.49                 | 20.38                 | 20.32                 |                              | 0        |
|                                        | 6       | 0         | 20.35                 | 20.20                 | 20.17                 | 0-3                          | 0        |

Table 9-54

## LTE Band 25 (PCS) Reduced Conducted Powers - 20 MHz Bandwidth - Grip Sensor Active

| 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         | 20.35                 | 20.16                 | 20.49                 | 0                            | 0        |
|                                       | 1       | 50        | 20.32                 | 20.12                 | 20.07                 |                              | 0        |
|                                       | 1       | 99        | 20.36                 | 20.14                 | 20.12                 |                              | 0        |
|                                       | 50      | 0         | 20.40                 | 20.38                 | 20.17                 | 0-1                          | 0        |
|                                       | 50      | 25        | 20.38                 | 20.34                 | 20.37                 |                              | 0        |
|                                       | 50      | 50        | 20.41                 | 20.32                 | 20.22                 |                              | 0        |
|                                       | 100     | 0         | 20.29                 | 20.12                 | 20.22                 |                              | 0        |
| 16QAM                                 | 1       | 0         | 20.49                 | 20.50                 | 20.15                 | 0-1                          | 0        |
|                                       | 1       | 50        | 20.47                 | 20.49                 | 20.08                 |                              | 0        |
|                                       | 1       | 99        | 20.50                 | 20.45                 | 20.25                 |                              | 0        |
|                                       | 50      | 0         | 20.44                 | 20.30                 | 20.43                 | 0-2                          | 0        |
|                                       | 50      | 25        | 20.45                 | 20.37                 | 20.23                 |                              | 0        |
|                                       | 50      | 50        | 20.48                 | 20.26                 | 20.23                 |                              | 0        |
|                                       | 100     | 0         | 20.42                 | 20.31                 | 20.20                 |                              | 0        |
| 64QAM                                 | 1       | 0         | 20.48                 | 20.36                 | 20.42                 | 0-2                          | 0        |
|                                       | 1       | 50        | 20.47                 | 20.47                 | 20.49                 |                              | 0        |
|                                       | 1       | 99        | 20.48                 | 20.40                 | 20.31                 |                              | 0        |
|                                       | 50      | 0         | 20.36                 | 20.29                 | 20.22                 | 0-3                          | 0        |
|                                       | 50      | 25        | 20.46                 | 20.48                 | 20.29                 |                              | 0        |
|                                       | 50      | 50        | 20.48                 | 20.40                 | 20.29                 |                              | 0        |
|                                       | 100     | 0         | 20.50                 | 20.39                 | 20.20                 |                              | 0        |

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 59 of 176                  |

**Table 9-55**  
**LTE Band 25 (PCS) Reduced Conducted Powers - 15 MHz Bandwidth - Grip Sensor Active**

| 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         | 20.14                 | 20.12                 | 20.00                 | 0                            | 0        |
|                                       | 1       | 36        | 20.31                 | 20.08                 | 19.97                 |                              | 0        |
|                                       | 1       | 74        | 20.31                 | 20.18                 | 20.04                 |                              | 0        |
|                                       | 36      | 0         | 20.32                 | 20.20                 | 20.05                 | 0-1                          | 0        |
|                                       | 36      | 18        | 20.39                 | 20.26                 | 20.15                 |                              | 0        |
|                                       | 36      | 37        | 20.35                 | 20.26                 | 20.18                 |                              | 0        |
|                                       | 75      | 0         | 20.34                 | 20.22                 | 20.12                 |                              | 0        |
| 16QAM                                 | 1       | 0         | 20.48                 | 20.34                 | 20.28                 | 0-1                          | 0        |
|                                       | 1       | 36        | 20.43                 | 20.43                 | 20.28                 |                              | 0        |
|                                       | 1       | 74        | 20.50                 | 20.44                 | 20.47                 |                              | 0        |
|                                       | 36      | 0         | 20.33                 | 20.19                 | 20.06                 | 0-2                          | 0        |
|                                       | 36      | 18        | 20.37                 | 20.26                 | 20.13                 |                              | 0        |
|                                       | 36      | 37        | 20.42                 | 20.26                 | 20.18                 |                              | 0        |
|                                       | 75      | 0         | 20.38                 | 20.18                 | 20.15                 |                              | 0        |
| 64QAM                                 | 1       | 0         | 20.50                 | 20.39                 | 20.20                 | 0-2                          | 0        |
|                                       | 1       | 36        | 20.49                 | 20.36                 | 20.22                 |                              | 0        |
|                                       | 1       | 74        | 20.50                 | 20.38                 | 20.37                 |                              | 0        |
|                                       | 36      | 0         | 20.36                 | 20.22                 | 20.10                 | 0-3                          | 0        |
|                                       | 36      | 18        | 20.43                 | 20.35                 | 20.20                 |                              | 0        |
|                                       | 36      | 37        | 20.46                 | 20.32                 | 20.22                 |                              | 0        |
|                                       | 75      | 0         | 20.37                 | 20.27                 | 20.12                 |                              | 0        |

**Table 9-56**  
**LTE Band 25 (PCS) Reduced Conducted Powers - 10 MHz Bandwidth - Grip Sensor Active**

| 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         | 20.13                 | 19.87                 | 20.01                 | 0                            | 0        |
|                                       | 1       | 25        | 20.06                 | 19.80                 | 19.88                 |                              | 0        |
|                                       | 1       | 49        | 20.04                 | 19.82                 | 19.84                 |                              | 0        |
|                                       | 25      | 0         | 20.15                 | 19.95                 | 19.91                 | 0-1                          | 0        |
|                                       | 25      | 12        | 20.19                 | 19.96                 | 19.96                 |                              | 0        |
|                                       | 25      | 25        | 20.26                 | 19.99                 | 19.99                 |                              | 0        |
|                                       | 50      | 0         | 20.27                 | 19.97                 | 19.95                 |                              | 0        |
| 16QAM                                 | 1       | 0         | 20.42                 | 20.05                 | 20.08                 | 0-1                          | 0        |
|                                       | 1       | 25        | 20.37                 | 20.17                 | 20.19                 |                              | 0        |
|                                       | 1       | 49        | 20.44                 | 20.17                 | 20.22                 |                              | 0        |
|                                       | 25      | 0         | 20.19                 | 19.98                 | 19.96                 | 0-2                          | 0        |
|                                       | 25      | 12        | 20.23                 | 19.96                 | 20.00                 |                              | 0        |
|                                       | 25      | 25        | 20.27                 | 19.97                 | 20.09                 |                              | 0        |
|                                       | 50      | 0         | 20.21                 | 19.98                 | 19.88                 |                              | 0        |
| 64QAM                                 | 1       | 0         | 20.38                 | 20.10                 | 20.04                 | 0-2                          | 0        |
|                                       | 1       | 25        | 20.32                 | 20.14                 | 20.10                 |                              | 0        |
|                                       | 1       | 49        | 20.33                 | 20.31                 | 20.17                 |                              | 0        |
|                                       | 25      | 0         | 20.17                 | 19.95                 | 19.98                 | 0-3                          | 0        |
|                                       | 25      | 12        | 20.22                 | 19.97                 | 19.96                 |                              | 0        |
|                                       | 25      | 25        | 20.20                 | 20.00                 | 19.99                 |                              | 0        |
|                                       | 50      | 0         | 20.23                 | 20.03                 | 19.98                 |                              | 0        |

|                                                |                                                                                     |                                      |                                                                                       |                                        |
|------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMF900F                             |  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                             | <b>DUT Type:</b><br>Portable Handset | Page 60 of 176                                                                        |                                        |

Table 9-57

## LTE Band 25 (PCS) Reduced Conducted Powers - 5 MHz Bandwidth - Grip Sensor Active

| 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         | 20.21                 | 20.10                 | 20.03                 | 0                            | 0        |
|                                      | 1       | 12        | 20.27                 | 20.17                 | 20.00                 |                              | 0        |
|                                      | 1       | 24        | 20.31                 | 20.12                 | 19.95                 |                              | 0        |
|                                      | 12      | 0         | 20.32                 | 20.22                 | 20.04                 | 0-1                          | 0        |
|                                      | 12      | 6         | 20.39                 | 20.30                 | 20.12                 |                              | 0        |
|                                      | 12      | 13        | 20.40                 | 20.23                 | 20.12                 |                              | 0        |
|                                      | 25      | 0         | 20.36                 | 20.22                 | 20.10                 |                              | 0        |
| 16QAM                                | 1       | 0         | 20.49                 | 20.34                 | 20.21                 | 0-1                          | 0        |
|                                      | 1       | 12        | 20.50                 | 20.50                 | 20.31                 |                              | 0        |
|                                      | 1       | 24        | 20.48                 | 20.41                 | 20.25                 |                              | 0        |
|                                      | 12      | 0         | 20.33                 | 20.27                 | 20.04                 | 0-2                          | 0        |
|                                      | 12      | 6         | 20.46                 | 20.31                 | 20.22                 |                              | 0        |
|                                      | 12      | 13        | 20.15                 | 20.28                 | 20.17                 |                              | 0        |
|                                      | 25      | 0         | 20.37                 | 20.25                 | 20.13                 |                              | 0        |
| 64QAM                                | 1       | 0         | 20.41                 | 20.39                 | 20.14                 | 0-2                          | 0        |
|                                      | 1       | 12        | 20.49                 | 20.38                 | 20.29                 |                              | 0        |
|                                      | 1       | 24        | 20.00                 | 20.43                 | 20.26                 |                              | 0        |
|                                      | 12      | 0         | 20.36                 | 20.00                 | 20.07                 | 0-3                          | 0        |
|                                      | 12      | 6         | 20.45                 | 20.33                 | 20.16                 |                              | 0        |
|                                      | 12      | 13        | 20.42                 | 20.27                 | 20.17                 |                              | 0        |
|                                      | 25      | 0         | 20.33                 | 20.27                 | 20.06                 |                              | 0        |

Table 9-58

## LTE Band 25 (PCS) Reduced Conducted Powers - 3 MHz Bandwidth - Grip Sensor Active

| 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         | 20.14                 | 20.07                 | 20.05                 | 0                            | 0        |
|                                      | 1       | 7         | 20.17                 | 20.11                 | 19.97                 |                              | 0        |
|                                      | 1       | 14        | 20.23                 | 20.15                 | 19.90                 |                              | 0        |
|                                      | 8       | 0         | 20.25                 | 20.16                 | 20.00                 | 0-1                          | 0        |
|                                      | 8       | 4         | 20.37                 | 20.23                 | 20.13                 |                              | 0        |
|                                      | 8       | 7         | 20.30                 | 20.25                 | 20.07                 |                              | 0        |
|                                      | 15      | 0         | 20.29                 | 20.25                 | 20.05                 |                              | 0        |
| 16QAM                                | 1       | 0         | 20.35                 | 20.26                 | 20.16                 | 0-1                          | 0        |
|                                      | 1       | 7         | 20.49                 | 20.39                 | 20.23                 |                              | 0        |
|                                      | 1       | 14        | 20.39                 | 20.38                 | 20.20                 |                              | 0        |
|                                      | 8       | 0         | 20.34                 | 20.28                 | 20.13                 | 0-2                          | 0        |
|                                      | 8       | 4         | 20.42                 | 20.38                 | 20.10                 |                              | 0        |
|                                      | 8       | 7         | 20.37                 | 20.37                 | 20.14                 |                              | 0        |
|                                      | 15      | 0         | 20.29                 | 20.23                 | 20.08                 |                              | 0        |
| 64QAM                                | 1       | 0         | 20.32                 | 20.30                 | 20.12                 | 0-2                          | 0        |
|                                      | 1       | 7         | 20.41                 | 20.27                 | 20.15                 |                              | 0        |
|                                      | 1       | 14        | 20.47                 | 20.35                 | 20.19                 |                              | 0        |
|                                      | 8       | 0         | 20.26                 | 20.22                 | 20.05                 | 0-3                          | 0        |
|                                      | 8       | 4         | 20.40                 | 20.31                 | 20.05                 |                              | 0        |
|                                      | 8       | 7         | 20.35                 | 20.28                 | 20.09                 |                              | 0        |
|                                      | 15      | 0         | 20.36                 | 20.24                 | 20.05                 |                              | 0        |

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 61 of 176                  |

**Table 9-59**  
**LTE Band 25 (PCS) Reduced Conducted Powers – 1.4 MHz Bandwidth - Grip Sensor Active**

| 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         | 20.07                 | 20.00                 | 20.02                 | 0                            | 0        |
|                                        | 1       | 2         | 20.18                 | 20.12                 | 19.97                 |                              | 0        |
|                                        | 1       | 5         | 20.10                 | 20.03                 | 19.83                 |                              | 0        |
|                                        | 3       | 0         | 20.11                 | 20.01                 | 19.96                 |                              | 0        |
|                                        | 3       | 2         | 20.22                 | 20.07                 | 19.88                 |                              | 0        |
|                                        | 3       | 3         | 20.15                 | 20.09                 | 19.90                 |                              | 0        |
|                                        | 6       | 0         | 20.18                 | 20.16                 | 19.97                 | 0-1                          | 0        |
| 16QAM                                  | 1       | 0         | 20.36                 | 20.17                 | 20.06                 | 0-1                          | 0        |
|                                        | 1       | 2         | 20.50                 | 20.33                 | 20.22                 |                              | 0        |
|                                        | 1       | 5         | 20.45                 | 20.40                 | 20.24                 |                              | 0        |
|                                        | 3       | 0         | 20.23                 | 20.22                 | 20.01                 |                              | 0        |
|                                        | 3       | 2         | 20.26                 | 20.22                 | 20.10                 |                              | 0        |
|                                        | 3       | 3         | 20.41                 | 20.12                 | 20.02                 |                              | 0        |
|                                        | 6       | 0         | 20.26                 | 20.20                 | 20.02                 | 0-2                          | 0        |
| 64QAM                                  | 1       | 0         | 20.34                 | 20.26                 | 20.11                 | 0-2                          | 0        |
|                                        | 1       | 2         | 20.50                 | 20.33                 | 20.17                 |                              | 0        |
|                                        | 1       | 5         | 20.37                 | 20.28                 | 20.09                 |                              | 0        |
|                                        | 3       | 0         | 20.29                 | 20.17                 | 20.02                 |                              | 0        |
|                                        | 3       | 2         | 20.32                 | 20.26                 | 20.06                 |                              | 0        |
|                                        | 3       | 3         | 20.33                 | 20.26                 | 20.08                 |                              | 0        |
|                                        | 6       | 0         | 20.21                 | 20.34                 | 19.98                 | 0-3                          | 0        |

### 9.3.8 LTE Band 30

**Table 9-60**  
**LTE Band 30 Max Conducted Powers - 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         | 24.33                    | 0                            | 0        |
|                                 | 1       | 25        | 24.20                    |                              | 0        |
|                                 | 1       | 49        | 24.08                    |                              | 0        |
|                                 | 25      | 0         | 23.32                    | 0-1                          | 1        |
|                                 | 25      | 12        | 23.35                    |                              | 1        |
|                                 | 25      | 25        | 23.24                    |                              | 1        |
|                                 | 50      | 0         | 23.26                    |                              | 1        |
| 16QAM                           | 1       | 0         | 23.45                    | 0-1                          | 1        |
|                                 | 1       | 25        | 23.34                    |                              | 1        |
|                                 | 1       | 49        | 23.05                    |                              | 1        |
|                                 | 25      | 0         | 22.36                    | 0-2                          | 2        |
|                                 | 25      | 12        | 22.28                    |                              | 2        |
|                                 | 25      | 25        | 22.20                    |                              | 2        |
|                                 | 50      | 0         | 22.28                    |                              | 2        |
| 64QAM                           | 1       | 0         | 22.37                    | 0-2                          | 2        |
|                                 | 1       | 25        | 22.26                    |                              | 2        |
|                                 | 1       | 49        | 22.23                    |                              | 2        |
|                                 | 25      | 0         | 21.40                    | 0-3                          | 3        |
|                                 | 25      | 12        | 21.32                    |                              | 3        |
|                                 | 25      | 25        | 21.24                    |                              | 3        |
|                                 | 50      | 0         | 21.32                    |                              | 3        |

|                                                |                                                                                     |                                      |                                                                                       |                                        |
|------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMF900F                             |  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                             | <b>DUT Type:</b><br>Portable Handset | Page 62 of 176                                                                        |                                        |

**Table 9-61**  
**LTE Band 30 Max Conducted Powers - 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)<br>Conducted Power<br>[dBm] |                              |          |
| QPSK                           | 1       | 0         | 24.16                                             | 0                            | 0        |
|                                | 1       | 12        | 24.09                                             |                              | 0        |
|                                | 1       | 24        | 23.91                                             |                              | 0        |
|                                | 12      | 0         | 23.25                                             | 0-1                          | 1        |
|                                | 12      | 6         | 23.17                                             |                              | 1        |
|                                | 12      | 13        | 23.08                                             |                              | 1        |
|                                | 25      | 0         | 23.17                                             |                              | 1        |
| 16QAM                          | 1       | 0         | 23.42                                             | 0-1                          | 1        |
|                                | 1       | 12        | 23.39                                             |                              | 1        |
|                                | 1       | 24        | 23.16                                             |                              | 1        |
|                                | 12      | 0         | 22.24                                             | 0-2                          | 2        |
|                                | 12      | 6         | 22.20                                             |                              | 2        |
|                                | 12      | 13        | 22.08                                             |                              | 2        |
|                                | 25      | 0         | 22.13                                             |                              | 2        |
| 64QAM                          | 1       | 0         | 22.50                                             | 0-2                          | 2        |
|                                | 1       | 12        | 22.45                                             |                              | 2        |
|                                | 1       | 24        | 22.13                                             |                              | 2        |
|                                | 12      | 0         | 21.26                                             | 0-3                          | 3        |
|                                | 12      | 6         | 21.17                                             |                              | 3        |
|                                | 12      | 13        | 21.10                                             |                              | 3        |
|                                | 25      | 0         | 21.14                                             |                              | 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.

**Table 9-62**  
**LTE Band 30 Reduced Conducted Powers - 10 MHz Bandwidth – Hotspot Mode/Grip Sensor Active**

| 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)<br>Conducted Power<br>[dBm] |                              |          |
| QPSK                            | 1       | 0         | 20.05                                             | 0                            | 0        |
|                                 | 1       | 25        | <b>20.33</b>                                      |                              | 0        |
|                                 | 1       | 49        | 19.91                                             |                              | 0        |
|                                 | 25      | 0         | 20.23                                             | 0-1                          | 0        |
|                                 | 25      | 12        | <b>20.29</b>                                      |                              | 0        |
|                                 | 25      | 25        | 20.20                                             |                              | 0        |
|                                 | 50      | 0         | 20.26                                             |                              | 0        |
| 16QAM                           | 1       | 0         | 20.32                                             | 0-1                          | 0        |
|                                 | 1       | 25        | 20.47                                             |                              | 0        |
|                                 | 1       | 49        | 20.30                                             |                              | 0        |
|                                 | 25      | 0         | 20.36                                             | 0-2                          | 0        |
|                                 | 25      | 12        | 20.23                                             |                              | 0        |
|                                 | 25      | 25        | 20.23                                             |                              | 0        |
|                                 | 50      | 0         | 20.19                                             |                              | 0        |
| 64QAM                           | 1       | 0         | 20.74                                             | 0-2                          | 0        |
|                                 | 1       | 25        | 20.62                                             |                              | 0        |
|                                 | 1       | 49        | 20.25                                             |                              | 0        |
|                                 | 25      | 0         | 20.31                                             | 0-3                          | 0        |
|                                 | 25      | 12        | 20.38                                             |                              | 0        |
|                                 | 25      | 25        | 20.15                                             |                              | 0        |
|                                 | 50      | 0         | 20.30                                             |                              | 0        |

|                                                |                                                                                     |                                      |                                                                                       |                                        |
|------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMF900F                             |  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                             | <b>DUT Type:</b><br>Portable Handset | Page 63 of 176                                                                        |                                        |

Table 9-63

## LTE Band 30 Reduced Conducted Powers - 5 MHz Bandwidth – Hotspot Mode/Grip Sensor Active

| 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         | 20.20                    | 0                            | 0        |
|                                | 1       | 12        | 20.26                    |                              | 0        |
|                                | 1       | 24        | 20.06                    |                              | 0        |
|                                | 12      | 0         | 20.28                    | 0-1                          | 0        |
|                                | 12      | 6         | 20.18                    |                              | 0        |
|                                | 12      | 13        | 20.20                    |                              | 0        |
|                                | 25      | 0         | 20.26                    |                              | 0        |
| 16QAM                          | 1       | 0         | 20.48                    | 0-1                          | 0        |
|                                | 1       | 12        | 20.52                    |                              | 0        |
|                                | 1       | 24        | 20.35                    |                              | 0        |
|                                | 12      | 0         | 20.31                    | 0-2                          | 0        |
|                                | 12      | 6         | 20.29                    |                              | 0        |
|                                | 12      | 13        | 20.25                    |                              | 0        |
|                                | 25      | 0         | 20.28                    |                              | 0        |
| 64QAM                          | 1       | 0         | 20.22                    | 0-2                          | 0        |
|                                | 1       | 12        | 20.49                    |                              | 0        |
|                                | 1       | 24        | 20.28                    |                              | 0        |
|                                | 12      | 0         | 20.30                    | 0-3                          | 0        |
|                                | 12      | 6         | 20.26                    |                              | 0        |
|                                | 12      | 13        | 20.27                    |                              | 0        |
|                                | 25      | 0         | 20.27                    |                              | 0        |

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.

## 9.3.9

## LTE Band 7

Table 9-64

## LTE Band 7 Max Conducted Powers - 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         | 24.06                 | 24.12                 | 24.07                 | 0                            | 0        |
|                                | 1       | 50        | 23.95                 | 23.98                 | 23.60                 |                              | 0        |
|                                | 1       | 99        | 24.17                 | 23.88                 | 23.83                 |                              | 0        |
|                                | 50      | 0         | 23.22                 | 22.90                 | 22.97                 | 0-1                          | 1        |
|                                | 50      | 25        | 23.20                 | 23.01                 | 22.50                 |                              | 1        |
|                                | 50      | 50        | 23.18                 | 23.04                 | 22.56                 |                              | 1        |
|                                | 100     | 0         | 23.20                 | 22.98                 | 22.62                 |                              | 1        |
| 16QAM                          | 1       | 0         | 23.35                 | 23.33                 | 23.32                 | 0-1                          | 1        |
|                                | 1       | 50        | 23.41                 | 23.30                 | 22.73                 |                              | 1        |
|                                | 1       | 99        | 23.44                 | 23.18                 | 23.14                 |                              | 1        |
|                                | 50      | 0         | 22.05                 | 22.06                 | 22.08                 | 0-2                          | 2        |
|                                | 50      | 25        | 22.21                 | 22.06                 | 21.83                 |                              | 2        |
|                                | 50      | 50        | 22.27                 | 22.01                 | 21.70                 |                              | 2        |
|                                | 100     | 0         | 22.22                 | 22.06                 | 21.69                 |                              | 2        |
| 64QAM                          | 1       | 0         | 22.39                 | 22.24                 | 22.21                 | 0-2                          | 2        |
|                                | 1       | 50        | 22.42                 | 22.20                 | 21.91                 |                              | 2        |
|                                | 1       | 99        | 22.43                 | 22.26                 | 22.09                 |                              | 2        |
|                                | 50      | 0         | 21.17                 | 21.15                 | 21.07                 | 0-3                          | 3        |
|                                | 50      | 25        | 21.28                 | 21.12                 | 20.83                 |                              | 3        |
|                                | 50      | 50        | 21.31                 | 21.04                 | 20.75                 |                              | 3        |
|                                | 100     | 0         | 21.19                 | 21.10                 | 20.85                 |                              | 3        |

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 64 of 176                  |

**Table 9-65**  
**LTE Band 7 Max Conducted Powers - 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         | 23.99                 | 24.06                 | 23.68                 | 0                            | 0        |
|                                | 1       | 36        | 24.03                 | 23.94                 | 23.18                 |                              | 0        |
|                                | 1       | 74        | 24.11                 | 23.79                 | 23.70                 |                              | 0        |
|                                | 36      | 0         | 22.61                 | 23.15                 | 22.56                 | 0-1                          | 1        |
|                                | 36      | 18        | 23.12                 | 23.04                 | 22.53                 |                              | 1        |
|                                | 36      | 37        | 23.25                 | 23.04                 | 22.79                 |                              | 1        |
|                                | 75      | 0         | 23.16                 | 23.09                 | 22.41                 |                              | 1        |
| 16QAM                          | 1       | 0         | 23.20                 | 23.50                 | 22.90                 | 0-1                          | 1        |
|                                | 1       | 36        | 23.31                 | 23.16                 | 22.61                 |                              | 1        |
|                                | 1       | 74        | 23.15                 | 22.74                 | 22.62                 |                              | 1        |
|                                | 36      | 0         | 21.78                 | 22.17                 | 21.50                 | 0-2                          | 2        |
|                                | 36      | 18        | 22.19                 | 22.15                 | 21.58                 |                              | 2        |
|                                | 36      | 37        | 22.25                 | 22.03                 | 21.80                 |                              | 2        |
|                                | 75      | 0         | 22.23                 | 22.08                 | 21.42                 |                              | 2        |
| 64QAM                          | 1       | 0         | 22.29                 | 22.46                 | 22.12                 | 0-2                          | 2        |
|                                | 1       | 36        | 22.41                 | 22.24                 | 21.59                 |                              | 2        |
|                                | 1       | 74        | 22.50                 | 22.15                 | 22.04                 |                              | 2        |
|                                | 36      | 0         | 20.98                 | 21.19                 | 20.86                 | 0-3                          | 3        |
|                                | 36      | 18        | 21.23                 | 21.17                 | 20.83                 |                              | 3        |
|                                | 36      | 37        | 21.23                 | 21.04                 | 20.85                 |                              | 3        |
|                                | 75      | 0         | 21.07                 | 21.08                 | 20.65                 |                              | 3        |

**Table 9-66**  
**LTE Band 7 Max Conducted Powers - 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         | 23.79                 | 24.07                 | 23.83                 | 0                            | 0        |
|                                | 1       | 25        | 23.86                 | 23.90                 | 23.90                 |                              | 0        |
|                                | 1       | 49        | 23.98                 | 23.96                 | 23.96                 |                              | 0        |
|                                | 25      | 0         | 22.65                 | 23.07                 | 22.93                 | 0-1                          | 1        |
|                                | 25      | 12        | 22.90                 | 23.09                 | 22.87                 |                              | 1        |
|                                | 25      | 25        | 22.80                 | 23.07                 | 22.96                 |                              | 1        |
|                                | 50      | 0         | 22.65                 | 22.81                 | 22.93                 |                              | 1        |
| 16QAM                          | 1       | 0         | 23.11                 | 23.32                 | 23.11                 | 0-1                          | 1        |
|                                | 1       | 25        | 23.27                 | 23.25                 | 23.27                 |                              | 1        |
|                                | 1       | 49        | 23.20                 | 23.27                 | 23.22                 |                              | 1        |
|                                | 25      | 0         | 21.95                 | 22.15                 | 21.97                 | 0-2                          | 2        |
|                                | 25      | 12        | 22.06                 | 22.12                 | 22.08                 |                              | 2        |
|                                | 25      | 25        | 22.02                 | 22.05                 | 22.01                 |                              | 2        |
|                                | 50      | 0         | 21.76                 | 22.07                 | 21.85                 |                              | 2        |
| 64QAM                          | 1       | 0         | 22.15                 | 22.25                 | 22.10                 | 0-2                          | 2        |
|                                | 1       | 25        | 22.25                 | 22.18                 | 22.22                 |                              | 2        |
|                                | 1       | 49        | 22.17                 | 22.23                 | 22.32                 |                              | 2        |
|                                | 25      | 0         | 21.01                 | 21.13                 | 21.00                 | 0-3                          | 3        |
|                                | 25      | 12        | 21.06                 | 21.05                 | 21.09                 |                              | 3        |
|                                | 25      | 25        | 21.04                 | 21.03                 | 21.04                 |                              | 3        |
|                                | 50      | 0         | 21.01                 | 21.07                 | 20.98                 |                              | 3        |

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset | Page 65 of 176                                                                        |                                 |

**Table 9-67**  
**LTE Band 7 Max Conducted Powers - 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         | 23.83                 | 23.96                 | 23.36                 | 0                            | 0        |
|                               | 1       | 12        | 24.08                 | 24.05                 | 23.47                 |                              | 0        |
|                               | 1       | 24        | 24.01                 | 24.00                 | 23.43                 |                              | 0        |
|                               | 12      | 0         | 22.91                 | 23.14                 | 22.35                 | 0-1                          | 1        |
|                               | 12      | 6         | 22.98                 | 23.15                 | 22.62                 |                              | 1        |
|                               | 12      | 13        | 23.00                 | 23.15                 | 22.64                 |                              | 1        |
|                               | 25      | 0         | 22.68                 | 22.92                 | 22.37                 |                              | 1        |
| 16QAM                         | 1       | 0         | 23.11                 | 23.31                 | 22.63                 | 0-1                          | 1        |
|                               | 1       | 12        | 23.38                 | 23.20                 | 22.88                 |                              | 1        |
|                               | 1       | 24        | 23.17                 | 23.40                 | 22.97                 |                              | 1        |
|                               | 12      | 0         | 21.93                 | 22.17                 | 21.64                 | 0-2                          | 2        |
|                               | 12      | 6         | 22.09                 | 22.23                 | 21.84                 |                              | 2        |
|                               | 12      | 13        | 22.07                 | 22.15                 | 21.76                 |                              | 2        |
|                               | 25      | 0         | 21.87                 | 22.12                 | 21.48                 |                              | 2        |
| 64QAM                         | 1       | 0         | 22.07                 | 22.24                 | 21.49                 | 0-2                          | 2        |
|                               | 1       | 12        | 22.16                 | 22.34                 | 21.85                 |                              | 2        |
|                               | 1       | 24        | 22.27                 | 22.23                 | 21.79                 |                              | 2        |
|                               | 12      | 0         | 20.97                 | 21.14                 | 20.77                 | 0-3                          | 3        |
|                               | 12      | 6         | 21.13                 | 21.20                 | 20.81                 |                              | 3        |
|                               | 12      | 13        | 21.08                 | 21.18                 | 20.79                 |                              | 3        |
|                               | 25      | 0         | 20.98                 | 21.12                 | 20.61                 |                              | 3        |

**Table 9-68**  
**LTE Band 7 Reduced Conducted Powers - 20 MHz Bandwidth - Hotspot Mode Active**

| LTE Band 7<br>20 MHz Bandwidth |         |           |                       |                       |                       |                              |          |
|--------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                     | RB Size | RB Offset | Low Channel           | Mid Channel           | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                |         |           | 20850<br>(2510.0 MHz) | 21100<br>(2535.0 MHz) | 21350<br>(2560.0 MHz) |                              |          |
|                                |         |           | Conducted Power [dBm] |                       |                       |                              |          |
| QPSK                           | 1       | 0         | 19.74                 | 19.66                 | 19.40                 | 0                            | 0        |
|                                | 1       | 50        | 19.49                 | 19.59                 | 19.34                 |                              | 0        |
|                                | 1       | 99        | 19.55                 | 19.47                 | 19.33                 |                              | 0        |
|                                | 50      | 0         | 19.53                 | 19.78                 | 19.53                 | 0-1                          | 0        |
|                                | 50      | 25        | 19.57                 | 19.79                 | 19.52                 |                              | 0        |
|                                | 50      | 50        | 19.65                 | 19.62                 | 19.45                 |                              | 0        |
|                                | 100     | 0         | 19.66                 | 19.64                 | 19.52                 |                              | 0        |
| 16QAM                          | 1       | 0         | 19.92                 | 19.86                 | 19.76                 | 0-1                          | 0        |
|                                | 1       | 50        | 19.88                 | 19.81                 | 19.62                 |                              | 0        |
|                                | 1       | 99        | 19.94                 | 19.75                 | 19.82                 |                              | 0        |
|                                | 50      | 0         | 19.58                 | 19.70                 | 19.56                 | 0-2                          | 0        |
|                                | 50      | 25        | 19.71                 | 19.71                 | 19.45                 |                              | 0        |
|                                | 50      | 50        | 19.74                 | 19.69                 | 19.50                 |                              | 0        |
|                                | 100     | 0         | 19.76                 | 19.66                 | 19.48                 |                              | 0        |
| 64QAM                          | 1       | 0         | 19.83                 | 19.98                 | 19.84                 | 0-2                          | 0        |
|                                | 1       | 50        | 19.90                 | 19.72                 | 19.65                 |                              | 0        |
|                                | 1       | 99        | 19.95                 | 19.93                 | 19.65                 |                              | 0        |
|                                | 50      | 0         | 19.67                 | 19.79                 | 19.74                 | 0-3                          | 0        |
|                                | 50      | 25        | 19.76                 | 19.76                 | 19.58                 |                              | 0        |
|                                | 50      | 50        | 19.81                 | 19.74                 | 19.53                 |                              | 0        |
|                                | 100     | 0         | 19.75                 | 19.74                 | 19.64                 |                              | 0        |

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset | Page 66 of 176                                                                        |                                 |

Table 9-69

## LTE Band 7 Reduced Conducted Powers - 15 MHz Bandwidth - Hotspot Mode Active

| LTE Band 7<br>15 MHz Bandwidth |         |           |                       |                       |                       |                              |          |
|--------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                     | RB Size | RB Offset | Low Channel           | Mid Channel           | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                |         |           | 20825<br>(2507.5 MHz) | 21100<br>(2535.0 MHz) | 21375<br>(2562.5 MHz) |                              |          |
|                                |         |           | Conducted Power [dBm] |                       |                       |                              |          |
| QPSK                           | 1       | 0         | 19.92                 | 19.81                 | 19.67                 | 0                            | 0        |
|                                | 1       | 36        | 19.90                 | 19.83                 | 19.62                 |                              | 0        |
|                                | 1       | 74        | 19.98                 | 19.69                 | 19.64                 |                              | 0        |
|                                | 36      | 0         | 19.97                 | 19.76                 | 19.66                 | 0-1                          | 0        |
|                                | 36      | 18        | 19.95                 | 19.86                 | 19.62                 |                              | 0        |
|                                | 36      | 37        | 19.97                 | 19.76                 | 19.63                 |                              | 0        |
|                                | 75      | 0         | 19.97                 | 19.76                 | 19.65                 |                              | 0        |
| 16QAM                          | 1       | 0         | 20.01                 | 19.76                 | 19.82                 | 0-1                          | 0        |
|                                | 1       | 36        | 20.02                 | 19.80                 | 19.80                 |                              | 0        |
|                                | 1       | 74        | 20.09                 | 19.70                 | 19.82                 |                              | 0        |
|                                | 36      | 0         | 19.92                 | 19.73                 | 19.74                 | 0-2                          | 0        |
|                                | 36      | 18        | 19.89                 | 19.82                 | 19.61                 |                              | 0        |
|                                | 36      | 37        | 19.93                 | 19.75                 | 19.62                 |                              | 0        |
|                                | 75      | 0         | 19.99                 | 19.79                 | 19.57                 |                              | 0        |
| 64QAM                          | 1       | 0         | 19.62                 | 19.45                 | 19.64                 | 0-2                          | 0        |
|                                | 1       | 36        | 19.47                 | 19.57                 | 19.51                 |                              | 0        |
|                                | 1       | 74        | 19.59                 | 19.48                 | 19.47                 |                              | 0        |
|                                | 36      | 0         | 19.55                 | 19.51                 | 19.44                 | 0-3                          | 0        |
|                                | 36      | 18        | 19.56                 | 19.53                 | 19.40                 |                              | 0        |
|                                | 36      | 37        | 19.56                 | 19.50                 | 19.29                 |                              | 0        |
|                                | 75      | 0         | 19.54                 | 19.46                 | 19.36                 |                              | 0        |

Table 9-70

## LTE Band 7 Reduced Conducted Powers - 10 MHz Bandwidth - Hotspot Mode Active

| LTE Band 7<br>10 MHz Bandwidth |         |           |                       |                       |                       |                              |          |
|--------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                     | RB Size | RB Offset | Low Channel           | Mid Channel           | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                |         |           | 20800<br>(2505.0 MHz) | 21100<br>(2535.0 MHz) | 21400<br>(2565.0 MHz) |                              |          |
|                                |         |           | Conducted Power [dBm] |                       |                       |                              |          |
| QPSK                           | 1       | 0         | 19.65                 | 19.52                 | 19.53                 | 0                            | 0        |
|                                | 1       | 25        | 19.57                 | 19.40                 | 19.57                 |                              | 0        |
|                                | 1       | 49        | 19.59                 | 19.36                 | 19.42                 |                              | 0        |
|                                | 25      | 0         | 19.53                 | 19.55                 | 19.53                 | 0-1                          | 0        |
|                                | 25      | 12        | 19.62                 | 19.63                 | 19.48                 |                              | 0        |
|                                | 25      | 25        | 19.63                 | 19.60                 | 19.54                 |                              | 0        |
|                                | 50      | 0         | 19.64                 | 19.57                 | 19.54                 |                              | 0        |
| 16QAM                          | 1       | 0         | 20.10                 | 19.92                 | 19.45                 | 0-1                          | 0        |
|                                | 1       | 25        | 20.09                 | 19.62                 | 19.35                 |                              | 0        |
|                                | 1       | 49        | 20.08                 | 19.54                 | 19.58                 |                              | 0        |
|                                | 25      | 0         | 19.77                 | 19.65                 | 19.51                 | 0-2                          | 0        |
|                                | 25      | 12        | 19.79                 | 19.68                 | 19.51                 |                              | 0        |
|                                | 25      | 25        | 19.78                 | 19.65                 | 19.52                 |                              | 0        |
|                                | 50      | 0         | 19.76                 | 19.61                 | 19.52                 |                              | 0        |
| 64QAM                          | 1       | 0         | 19.32                 | 19.34                 | 19.24                 | 0-2                          | 0        |
|                                | 1       | 25        | 19.40                 | 19.37                 | 19.27                 |                              | 0        |
|                                | 1       | 49        | 19.35                 | 19.30                 | 19.33                 |                              | 0        |
|                                | 25      | 0         | 19.36                 | 19.44                 | 19.27                 | 0-3                          | 0        |
|                                | 25      | 12        | 19.42                 | 19.40                 | 19.28                 |                              | 0        |
|                                | 25      | 25        | 19.29                 | 19.38                 | 19.30                 |                              | 0        |
|                                | 50      | 0         | 19.29                 | 19.39                 | 19.26                 |                              | 0        |

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 67 of 176                  |

**Table 9-71**  
**LTE Band 7 Reduced Conducted Powers - 5 MHz Bandwidth - Hotspot Mode Active**

| LTE Band 7<br>5 MHz Bandwidth |         |           |                       |                       |                       |                              |          |
|-------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                    | RB Size | RB Offset | Low Channel           | Mid Channel           | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                               |         |           | 20775<br>(2502.5 MHz) | 21100<br>(2535.0 MHz) | 21425<br>(2567.5 MHz) |                              |          |
|                               |         |           | Conducted Power [dBm] |                       |                       |                              |          |
| QPSK                          | 1       | 0         | 19.70                 | 19.44                 | 19.40                 | 0                            | 0        |
|                               | 1       | 12        | 19.73                 | 19.52                 | 19.52                 |                              | 0        |
|                               | 1       | 24        | 19.74                 | 19.47                 | 19.57                 |                              | 0        |
|                               | 12      | 0         | 19.76                 | 19.61                 | 19.48                 | 0-1                          | 0        |
|                               | 12      | 6         | 19.77                 | 19.67                 | 19.47                 |                              | 0        |
|                               | 12      | 13        | 19.75                 | 19.70                 | 19.60                 |                              | 0        |
|                               | 25      | 0         | 19.73                 | 19.66                 | 19.57                 |                              | 0        |
| 16QAM                         | 1       | 0         | 20.02                 | 19.48                 | 19.55                 | 0-1                          | 0        |
|                               | 1       | 12        | 20.08                 | 19.51                 | 19.59                 |                              | 0        |
|                               | 1       | 24        | 20.09                 | 19.49                 | 19.71                 |                              | 0        |
|                               | 12      | 0         | 19.98                 | 19.66                 | 19.56                 | 0-2                          | 0        |
|                               | 12      | 6         | 19.99                 | 19.71                 | 19.53                 |                              | 0        |
|                               | 12      | 13        | 19.98                 | 19.67                 | 19.62                 |                              | 0        |
|                               | 25      | 0         | 19.78                 | 19.66                 | 19.63                 |                              | 0        |
| 64QAM                         | 1       | 0         | 19.34                 | 19.53                 | 19.46                 | 0-2                          | 0        |
|                               | 1       | 12        | 19.69                 | 19.42                 | 19.61                 |                              | 0        |
|                               | 1       | 24        | 19.47                 | 19.54                 | 19.51                 |                              | 0        |
|                               | 12      | 0         | 19.46                 | 19.49                 | 19.53                 | 0-3                          | 0        |
|                               | 12      | 6         | 19.45                 | 19.47                 | 19.45                 |                              | 0        |
|                               | 12      | 13        | 19.45                 | 19.56                 | 19.32                 |                              | 0        |
|                               | 25      | 0         | 19.38                 | 19.48                 | 19.44                 |                              | 0        |

**Table 9-72**  
**LTE Band 7 Reduced Conducted Powers - 20 MHz Bandwidth - Grip Sensor Mode Active**

| 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         | 18.74                 | 18.62                 | 18.56                 | 0                            | 0        |
|                                | 1       | 50        | 18.71                 | 18.55                 | 18.43                 |                              | 0        |
|                                | 1       | 99        | 18.78                 | 18.41                 | 18.48                 |                              | 0        |
|                                | 50      | 0         | 18.85                 | 18.81                 | 18.68                 | 0-1                          | 0        |
|                                | 50      | 25        | 18.94                 | 18.80                 | 18.58                 |                              | 0        |
|                                | 50      | 50        | 18.97                 | 18.72                 | 18.51                 |                              | 0        |
| 16QAM                          | 100     | 0         | 18.73                 | 18.60                 | 18.59                 | 0-1                          | 0        |
|                                | 1       | 0         | 18.73                 | 18.95                 | 18.92                 |                              | 0        |
|                                | 1       | 50        | 18.82                 | 18.61                 | 18.69                 |                              | 0        |
|                                | 1       | 99        | 18.87                 | 18.93                 | 18.89                 | 0-2                          | 0        |
|                                | 50      | 0         | 18.88                 | 18.83                 | 18.59                 |                              | 0        |
|                                | 50      | 25        | 18.94                 | 18.83                 | 18.59                 |                              | 0        |
| 64QAM                          | 50      | 50        | 18.89                 | 18.69                 | 18.53                 | 0-2                          | 0        |
|                                | 100     | 0         | 18.96                 | 18.75                 | 18.65                 |                              | 0        |
|                                | 1       | 0         | 18.98                 | 18.81                 | 18.89                 |                              | 0-2      |
|                                | 1       | 50        | 18.93                 | 18.93                 | 18.70                 | 0                            |          |
|                                | 1       | 99        | 18.97                 | 18.75                 | 18.79                 | 0                            |          |
|                                | 50      | 0         | 18.92                 | 18.81                 | 18.69                 | 0-3                          | 0        |
| 50                             | 25      | 18.87     | 18.82                 | 18.64                 | 0                     |                              |          |
| 50                             | 50      | 18.99     | 18.80                 | 18.60                 | 0                     |                              |          |
|                                | 100     | 0         | 18.94                 | 18.79                 | 18.62                 |                              | 0        |

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset | Page 68 of 176                                                                        |                                 |

Table 9-73

## LTE Band 7 Reduced Conducted Powers - 15 MHz Bandwidth - Grip Sensor Mode Active

| 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         | 18.32                 | 18.35                 | 18.18                 | 0                            | 0        |
|                                | 1       | 36        | 18.36                 | 18.25                 | 18.02                 |                              | 0        |
|                                | 1       | 74        | 18.41                 | 18.18                 | 18.12                 |                              | 0        |
|                                | 36      | 0         | 18.41                 | 18.47                 | 18.25                 | 0-1                          | 0        |
|                                | 36      | 18        | 18.48                 | 18.45                 | 18.20                 |                              | 0        |
|                                | 36      | 37        | 18.52                 | 18.30                 | 18.22                 |                              | 0        |
|                                | 75      | 0         | 18.53                 | 18.41                 | 18.23                 |                              | 0        |
| 16QAM                          | 1       | 0         | 18.59                 | 18.58                 | 18.48                 | 0-1                          | 0        |
|                                | 1       | 36        | 18.43                 | 18.64                 | 18.40                 |                              | 0        |
|                                | 1       | 74        | 18.84                 | 18.62                 | 18.37                 |                              | 0        |
|                                | 36      | 0         | 18.41                 | 18.54                 | 18.25                 | 0-2                          | 0        |
|                                | 36      | 18        | 18.48                 | 18.51                 | 18.22                 |                              | 0        |
|                                | 36      | 37        | 18.46                 | 18.44                 | 18.23                 |                              | 0        |
|                                | 75      | 0         | 18.44                 | 18.41                 | 18.24                 |                              | 0        |
| 64QAM                          | 1       | 0         | 18.68                 | 18.68                 | 18.45                 | 0-2                          | 0        |
|                                | 1       | 36        | 18.61                 | 18.53                 | 18.56                 |                              | 0        |
|                                | 1       | 74        | 18.82                 | 18.48                 | 18.42                 |                              | 0        |
|                                | 36      | 0         | 18.48                 | 18.47                 | 18.26                 | 0-3                          | 0        |
|                                | 36      | 18        | 18.53                 | 18.54                 | 18.26                 |                              | 0        |
|                                | 36      | 37        | 18.56                 | 18.34                 | 18.25                 |                              | 0        |
|                                | 75      | 0         | 18.48                 | 18.40                 | 18.27                 |                              | 0        |

Table 9-74

## LTE Band 7 Reduced Conducted Powers - 10 MHz Bandwidth - Grip Sensor Mode Active

| 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         | 18.23                 | 18.18                 | 18.00                 | 0                            | 0        |
|                                | 1       | 25        | 18.19                 | 18.13                 | 18.02                 |                              | 0        |
|                                | 1       | 49        | 18.18                 | 18.14                 | 18.02                 |                              | 0        |
|                                | 25      | 0         | 18.27                 | 18.32                 | 18.11                 | 0-1                          | 0        |
|                                | 25      | 12        | 18.38                 | 18.28                 | 18.04                 |                              | 0        |
|                                | 25      | 25        | 18.29                 | 18.28                 | 18.03                 |                              | 0        |
|                                | 50      | 0         | 18.33                 | 18.26                 | 18.09                 |                              | 0        |
| 16QAM                          | 1       | 0         | 18.20                 | 18.44                 | 18.25                 | 0-1                          | 0        |
|                                | 1       | 25        | 18.53                 | 18.43                 | 18.23                 |                              | 0        |
|                                | 1       | 49        | 18.45                 | 18.44                 | 18.20                 |                              | 0        |
|                                | 25      | 0         | 18.35                 | 18.33                 | 18.12                 | 0-2                          | 0        |
|                                | 25      | 12        | 18.29                 | 18.32                 | 18.11                 |                              | 0        |
|                                | 25      | 25        | 18.40                 | 18.30                 | 18.11                 |                              | 0        |
|                                | 50      | 0         | 18.29                 | 18.29                 | 18.10                 |                              | 0        |
| 64QAM                          | 1       | 0         | 18.45                 | 18.48                 | 18.25                 | 0-2                          | 0        |
|                                | 1       | 25        | 18.48                 | 18.10                 | 18.31                 |                              | 0        |
|                                | 1       | 49        | 18.47                 | 18.38                 | 18.25                 |                              | 0        |
|                                | 25      | 0         | 18.34                 | 18.30                 | 18.16                 | 0-3                          | 0        |
|                                | 25      | 12        | 18.33                 | 18.31                 | 18.15                 |                              | 0        |
|                                | 25      | 25        | 18.42                 | 18.24                 | 18.13                 |                              | 0        |
|                                | 50      | 0         | 18.40                 | 18.30                 | 18.14                 |                              | 0        |

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 69 of 176                  |

**Table 9-75**  
**LTE Band 7 Reduced Conducted Powers - 5 MHz Bandwidth - Grip Sensor Mode Active**

| 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         | 18.12                 | 18.10                 | 18.00                 | 0                            | 0        |
|                               | 1       | 12        | 18.20                 | 18.23                 | 18.14                 |                              | 0        |
|                               | 1       | 24        | 18.11                 | 18.15                 | 18.16                 |                              | 0        |
|                               | 12      | 0         | 18.21                 | 18.21                 | 18.15                 | 0-1                          | 0        |
|                               | 12      | 6         | 18.22                 | 18.24                 | 18.25                 |                              | 0        |
|                               | 12      | 13        | 18.23                 | 18.31                 | 18.24                 |                              | 0        |
|                               | 25      | 0         | 18.23                 | 18.27                 | 18.21                 |                              | 0        |
| 16QAM                         | 1       | 0         | 18.40                 | 18.25                 | 18.26                 | 0-1                          | 0        |
|                               | 1       | 12        | 18.53                 | 18.35                 | 18.38                 |                              | 0        |
|                               | 1       | 24        | 18.41                 | 18.39                 | 18.37                 |                              | 0        |
|                               | 12      | 0         | 18.32                 | 18.31                 | 18.12                 | 0-2                          | 0        |
|                               | 12      | 6         | 18.37                 | 18.04                 | 18.30                 |                              | 0        |
|                               | 12      | 13        | 18.31                 | 18.33                 | 18.30                 |                              | 0        |
|                               | 25      | 0         | 18.25                 | 18.27                 | 18.18                 |                              | 0        |
| 64QAM                         | 1       | 0         | 18.50                 | 18.34                 | 18.33                 | 0-2                          | 0        |
|                               | 1       | 12        | 18.40                 | 18.39                 | 18.45                 |                              | 0        |
|                               | 1       | 24        | 18.32                 | 18.40                 | 18.42                 |                              | 0        |
|                               | 12      | 0         | 18.39                 | 18.16                 | 18.20                 | 0-3                          | 0        |
|                               | 12      | 6         | 18.28                 | 18.34                 | 18.28                 |                              | 0        |
|                               | 12      | 13        | 18.32                 | 18.35                 | 18.27                 |                              | 0        |
|                               | 25      | 0         | 18.28                 | 18.23                 | 18.10                 |                              | 0        |

### 9.3.10 LTE Band 41

**Table 9-76**  
**LTE Band 41 Max PC3 Conducted Powers - 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         | 24.30                 | 24.23                 | 24.18                 | 24.35                 | 24.13                 | 0                            | 0        |
|                                 | 1       | 50        | 24.23                 | 24.20                 | 24.15                 | 24.25                 | 24.17                 |                              | 0        |
|                                 | 1       | 99        | 24.25                 | 24.20                 | 24.13                 | 24.04                 | 24.29                 |                              | 0        |
|                                 | 50      | 0         | 23.42                 | 23.37                 | 23.41                 | 23.52                 | 23.39                 | 0-1                          | 1        |
|                                 | 50      | 25        | 23.45                 | 23.43                 | 23.42                 | 23.46                 | 23.45                 |                              | 1        |
|                                 | 50      | 50        | 23.47                 | 23.35                 | 23.39                 | 23.40                 | 23.47                 |                              | 1        |
|                                 | 100     | 0         | 23.44                 | 23.38                 | 23.37                 | 23.40                 | 23.45                 |                              | 1        |
| 16QAM                           | 1       | 0         | 23.37                 | 23.24                 | 23.25                 | 23.39                 | 23.18                 | 0-1                          | 1        |
|                                 | 1       | 50        | 23.27                 | 23.21                 | 23.15                 | 23.30                 | 23.25                 |                              | 1        |
|                                 | 1       | 99        | 23.27                 | 23.19                 | 23.14                 | 23.16                 | 23.40                 |                              | 1        |
|                                 | 50      | 0         | 22.42                 | 22.41                 | 22.38                 | 22.50                 | 22.41                 | 0-2                          | 2        |
|                                 | 50      | 25        | 22.44                 | 22.40                 | 22.40                 | 22.47                 | 22.45                 |                              | 2        |
|                                 | 50      | 50        | 22.54                 | 22.27                 | 22.35                 | 22.37                 | 22.49                 |                              | 2        |
|                                 | 100     | 0         | 22.44                 | 22.40                 | 22.38                 | 22.44                 | 22.43                 |                              | 2        |
| 64QAM                           | 1       | 0         | 22.60                 | 22.67                 | 22.49                 | 22.58                 | 22.54                 | 0-2                          | 2        |
|                                 | 1       | 50        | 22.53                 | 22.62                 | 22.56                 | 22.66                 | 22.68                 |                              | 2        |
|                                 | 1       | 99        | 22.47                 | 22.68                 | 22.54                 | 22.61                 | 22.68                 |                              | 2        |
|                                 | 50      | 0         | 21.47                 | 21.45                 | 21.42                 | 21.56                 | 21.42                 | 0-3                          | 3        |
|                                 | 50      | 25        | 21.44                 | 21.44                 | 21.44                 | 21.46                 | 21.49                 |                              | 3        |
|                                 | 50      | 50        | 21.48                 | 21.42                 | 21.40                 | 21.34                 | 21.59                 |                              | 3        |
|                                 | 100     | 0         | 21.46                 | 21.39                 | 21.35                 | 21.41                 | 21.43                 |                              | 3        |

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset | Page 70 of 176                                                                        |                                 |

**Table 9-77**  
**LTE Band 41 Max PC3 Conducted Powers - 15 MHz Bandwidth**

| LTE Band 41<br>15 MHz Bandwidth |         |           |                       |                       |                       |                       |                       |                              |          |
|---------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                      | RB Size | RB Offset | Low Channel           | Low-Mid Channel       | Mid Channel           | Mid-High Channel      | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                 |         |           | 39750<br>(2506.0 MHz) | 40185<br>(2549.5 MHz) | 40620<br>(2593.0 MHz) | 41055<br>(2636.5 MHz) | 41490<br>(2680.0 MHz) |                              |          |
|                                 |         |           | Conducted Power [dBm] |                       |                       |                       |                       |                              |          |
| QPSK                            | 1       | 0         | 23.71                 | 23.84                 | 23.81                 | 23.99                 | 23.76                 | 0                            | 0        |
|                                 | 1       | 36        | 23.60                 | 23.79                 | 23.75                 | 23.85                 | 23.74                 |                              | 0        |
|                                 | 1       | 74        | 23.66                 | 23.75                 | 23.76                 | 23.75                 | 23.85                 |                              | 0        |
|                                 | 36      | 0         | 22.81                 | 22.94                 | 22.94                 | 23.07                 | 22.91                 | 0-1                          | 1        |
|                                 | 36      | 18        | 22.82                 | 23.00                 | 22.99                 | 23.04                 | 22.94                 |                              | 1        |
|                                 | 36      | 37        | 22.80                 | 22.94                 | 22.97                 | 23.05                 | 22.96                 |                              | 1        |
|                                 | 75      | 0         | 22.83                 | 22.97                 | 22.95                 | 23.03                 | 22.93                 |                              | 1        |
| 16QAM                           | 1       | 0         | 22.71                 | 22.86                 | 22.88                 | 22.89                 | 22.80                 | 0-1                          | 1        |
|                                 | 1       | 36        | 22.63                 | 22.78                 | 22.79                 | 22.77                 | 22.78                 |                              | 1        |
|                                 | 1       | 74        | 22.67                 | 22.83                 | 22.81                 | 22.77                 | 22.84                 |                              | 1        |
|                                 | 36      | 0         | 21.71                 | 21.85                 | 21.88                 | 21.97                 | 21.85                 | 0-2                          | 2        |
|                                 | 36      | 18        | 21.73                 | 21.89                 | 21.90                 | 21.98                 | 21.87                 |                              | 2        |
|                                 | 36      | 37        | 21.75                 | 21.87                 | 22.01                 | 22.03                 | 21.89                 |                              | 2        |
|                                 | 75      | 0         | 21.81                 | 21.94                 | 21.98                 | 22.04                 | 21.93                 |                              | 2        |
| 64QAM                           | 1       | 0         | 22.56                 | 22.62                 | 22.52                 | 22.57                 | 22.62                 | 0-2                          | 2        |
|                                 | 1       | 36        | 22.48                 | 22.61                 | 22.61                 | 22.73                 | 22.65                 |                              | 2        |
|                                 | 1       | 74        | 22.55                 | 22.62                 | 22.62                 | 22.61                 | 22.71                 |                              | 2        |
|                                 | 36      | 0         | 21.43                 | 21.55                 | 21.41                 | 21.74                 | 21.67                 | 0-3                          | 3        |
|                                 | 36      | 18        | 21.58                 | 21.48                 | 21.50                 | 21.70                 | 21.65                 |                              | 3        |
|                                 | 36      | 37        | 21.46                 | 21.49                 | 21.53                 | 21.65                 | 21.59                 |                              | 3        |
|                                 | 75      | 0         | 21.44                 | 21.59                 | 21.47                 | 21.56                 | 21.60                 |                              | 3        |

**Table 9-78**  
**LTE Band 41 Max PC3 Conducted Powers - 10 MHz Bandwidth**

| LTE Band 41<br>10 MHz Bandwidth |         |           |                       |                       |                       |                       |                       |                              |          |
|---------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                      | RB Size | RB Offset | Low Channel           | Low-Mid Channel       | Mid Channel           | Mid-High Channel      | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                 |         |           | 39750<br>(2506.0 MHz) | 40185<br>(2549.5 MHz) | 40620<br>(2593.0 MHz) | 41055<br>(2636.5 MHz) | 41490<br>(2680.0 MHz) |                              |          |
|                                 |         |           | Conducted Power [dBm] |                       |                       |                       |                       |                              |          |
| QPSK                            | 1       | 0         | 23.65                 | 23.68                 | 23.75                 | 23.82                 | 23.75                 | 0                            | 0        |
|                                 | 1       | 25        | 23.55                 | 23.67                 | 23.62                 | 23.77                 | 23.71                 |                              | 0        |
|                                 | 1       | 49        | 23.55                 | 23.64                 | 23.64                 | 23.77                 | 23.66                 |                              | 0        |
|                                 | 25      | 0         | 22.69                 | 22.90                 | 22.86                 | 22.98                 | 22.88                 | 0-1                          | 1        |
|                                 | 25      | 12        | 22.71                 | 22.92                 | 22.85                 | 22.97                 | 22.87                 |                              | 1        |
|                                 | 25      | 25        | 22.65                 | 22.90                 | 22.79                 | 22.92                 | 22.81                 |                              | 1        |
| 16QAM                           | 50      | 0         | 22.74                 | 22.93                 | 22.83                 | 22.98                 | 22.85                 | 0-1                          | 1        |
|                                 | 1       | 0         | 22.65                 | 22.82                 | 22.80                 | 22.90                 | 22.78                 |                              | 1        |
|                                 | 1       | 25        | 22.54                 | 22.76                 | 22.70                 | 22.80                 | 22.78                 |                              | 1        |
|                                 | 1       | 49        | 22.58                 | 22.80                 | 22.69                 | 22.79                 | 22.68                 | 0-2                          | 1        |
|                                 | 25      | 0         | 21.70                 | 21.89                 | 21.89                 | 21.82                 | 21.90                 |                              | 2        |
|                                 | 25      | 12        | 21.71                 | 21.92                 | 21.87                 | 22.02                 | 21.88                 |                              | 2        |
| 64QAM                           | 25      | 25        | 21.67                 | 21.81                 | 21.81                 | 21.99                 | 21.83                 | 0-2                          | 2        |
|                                 | 50      | 0         | 21.71                 | 21.95                 | 21.89                 | 21.92                 | 21.89                 |                              | 2        |
|                                 | 1       | 0         | 22.49                 | 22.58                 | 22.56                 | 21.60                 | 21.56                 |                              | 0-2      |
|                                 | 1       | 25        | 22.41                 | 22.40                 | 22.58                 | 21.58                 | 21.55                 | 2                            |          |
|                                 | 1       | 49        | 22.42                 | 22.60                 | 22.50                 | 21.47                 | 21.45                 | 2                            |          |
|                                 | 25      | 0         | 21.48                 | 21.49                 | 21.49                 | 21.05                 | 20.98                 | 0-3                          | 3        |
| 25                              | 12      | 21.49     | 21.45                 | 21.61                 | 21.11                 | 20.89                 | 3                     |                              |          |
| 25                              | 25      | 21.54     | 21.50                 | 21.56                 | 21.13                 | 20.89                 | 3                     |                              |          |
|                                 | 50      | 0         | 21.50                 | 21.49                 | 21.57                 | 21.14                 | 20.98                 |                              | 3        |

|                                                |                                                                                     |                                      |                                                                                       |                                        |
|------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMF900F                             |  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                             | <b>DUT Type:</b><br>Portable Handset | Page 71 of 176                                                                        |                                        |

**Table 9-79**  
**LTE Band 41 Max PC3 Conducted Powers - 5 MHz Bandwidth**

| LTE Band 41<br>5 MHz Bandwidth |         |           |                       |                       |                       |                       |                       |                              |          |
|--------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                     | RB Size | RB Offset | Low Channel           | Low-Mid Channel       | Mid Channel           | Mid-High Channel      | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                |         |           | 39750<br>(2506.0 MHz) | 40185<br>(2549.5 MHz) | 40620<br>(2593.0 MHz) | 41055<br>(2636.5 MHz) | 41490<br>(2680.0 MHz) |                              |          |
|                                |         |           | Conducted Power [dBm] |                       |                       |                       |                       |                              |          |
| QPSK                           | 1       | 0         | 23.64                 | 23.97                 | 23.68                 | 23.79                 | 23.91                 | 0                            | 0        |
|                                | 1       | 12        | 23.64                 | 23.85                 | 23.78                 | 23.83                 | 23.75                 |                              | 0        |
|                                | 1       | 24        | 23.68                 | 23.85                 | 23.74                 | 23.82                 | 23.74                 |                              | 0        |
|                                | 12      | 0         | 22.68                 | 22.97                 | 22.80                 | 22.95                 | 22.80                 | 0-1                          | 1        |
|                                | 12      | 6         | 22.75                 | 22.98                 | 22.88                 | 22.95                 | 22.85                 |                              | 1        |
|                                | 12      | 13        | 22.72                 | 22.97                 | 22.90                 | 22.95                 | 22.87                 |                              | 1        |
|                                | 25      | 0         | 22.70                 | 22.95                 | 22.88                 | 22.95                 | 22.83                 |                              | 1        |
| 16QAM                          | 1       | 0         | 22.61                 | 22.84                 | 22.81                 | 22.86                 | 22.82                 | 0-1                          | 1        |
|                                | 1       | 12        | 22.65                 | 22.85                 | 22.78                 | 22.86                 | 22.85                 |                              | 1        |
|                                | 1       | 24        | 22.64                 | 22.89                 | 22.82                 | 22.89                 | 22.80                 |                              | 1        |
|                                | 12      | 0         | 21.68                 | 21.86                 | 21.71                 | 21.81                 | 21.84                 | 0-2                          | 2        |
|                                | 12      | 6         | 21.68                 | 21.85                 | 21.70                 | 21.86                 | 21.74                 |                              | 2        |
|                                | 12      | 13        | 21.64                 | 21.87                 | 21.77                 | 21.84                 | 21.76                 |                              | 2        |
|                                | 25      | 0         | 21.74                 | 21.99                 | 21.91                 | 21.95                 | 21.83                 |                              | 2        |
| 64QAM                          | 1       | 0         | 22.43                 | 22.56                 | 22.47                 | 22.36                 | 22.17                 | 0-2                          | 2        |
|                                | 1       | 12        | 22.47                 | 22.63                 | 22.51                 | 22.30                 | 22.21                 |                              | 2        |
|                                | 1       | 24        | 22.37                 | 22.59                 | 22.46                 | 22.08                 | 22.30                 |                              | 2        |
|                                | 12      | 0         | 21.61                 | 21.43                 | 21.44                 | 21.53                 | 21.36                 | 0-3                          | 3        |
|                                | 12      | 6         | 21.42                 | 21.41                 | 21.53                 | 21.56                 | 21.23                 |                              | 3        |
|                                | 12      | 13        | 21.58                 | 21.57                 | 21.56                 | 21.35                 | 21.33                 |                              | 3        |
|                                | 25      | 0         | 21.33                 | 21.39                 | 21.55                 | 21.27                 | 21.47                 |                              | 3        |

**Table 9-80**  
**LTE Band 41 PC3 Reduced Conducted Powers - 20 MHz Bandwidth - Hotspot Mode Active**

| LTE Band 41<br>20 MHz Bandwidth |         |           |                       |                       |                       |                       |                       |                              |          |
|---------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                      | RB Size | RB Offset | Low Channel           | Low-Mid Channel       | Mid Channel           | Mid-High Channel      | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                 |         |           | 39750<br>(2506.0 MHz) | 40185<br>(2549.5 MHz) | 40620<br>(2593.0 MHz) | 41055<br>(2636.5 MHz) | 41490<br>(2680.0 MHz) |                              |          |
|                                 |         |           | Conducted Power [dBm] |                       |                       |                       |                       |                              |          |
| QPSK                            | 1       | 0         | 21.65                 | 21.61                 | 21.65                 | 21.74                 | 21.51                 | 0                            | 0        |
|                                 | 1       | 50        | 21.57                 | 21.64                 | 21.53                 | 21.65                 | 21.56                 |                              | 0        |
|                                 | 1       | 99        | 21.60                 | 21.58                 | 21.49                 | 21.45                 | 21.80                 |                              | 0        |
|                                 | 50      | 0         | 21.81                 | 21.78                 | 21.77                 | 21.80                 | 21.70                 | 0-1                          | 0        |
|                                 | 50      | 25        | 21.83                 | 21.79                 | 21.80                 | 21.78                 | 21.82                 |                              | 0        |
|                                 | 50      | 50        | 21.82                 | 21.74                 | 21.78                 | 21.66                 | 21.85                 |                              | 0        |
|                                 | 100     | 0         | 21.64                 | 21.76                 | 21.60                 | 21.79                 | 21.71                 |                              | 0        |
| 16QAM                           | 1       | 0         | 21.71                 | 21.73                 | 21.60                 | 21.75                 | 21.57                 | 0-1                          | 0        |
|                                 | 1       | 50        | 21.58                 | 21.56                 | 21.55                 | 21.63                 | 21.60                 |                              | 0        |
|                                 | 1       | 99        | 21.68                 | 21.79                 | 21.57                 | 21.45                 | 21.76                 |                              | 0        |
|                                 | 50      | 0         | 21.88                 | 21.80                 | 21.75                 | 21.90                 | 21.81                 | 0-2                          | 0        |
|                                 | 50      | 25        | 21.81                 | 21.82                 | 21.86                 | 21.88                 | 21.81                 |                              | 0        |
|                                 | 50      | 50        | 21.83                 | 21.71                 | 21.75                 | 21.81                 | 21.86                 |                              | 0        |
|                                 | 100     | 0         | 21.81                 | 21.76                 | 21.80                 | 21.74                 | 21.83                 |                              | 0        |
| 64QAM                           | 1       | 0         | 21.45                 | 21.50                 | 21.40                 | 21.82                 | 21.45                 | 0-2                          | 0        |
|                                 | 1       | 50        | 21.38                 | 21.41                 | 21.38                 | 21.50                 | 21.56                 |                              | 0        |
|                                 | 1       | 99        | 21.42                 | 21.41                 | 21.45                 | 21.45                 | 21.59                 |                              | 0        |
|                                 | 50      | 0         | 21.38                 | 21.40                 | 21.35                 | 21.10                 | 21.40                 | 0-3                          | 1        |
|                                 | 50      | 25        | 21.36                 | 21.30                 | 21.36                 | 21.42                 | 21.40                 |                              | 1        |
|                                 | 50      | 50        | 21.37                 | 21.29                 | 21.35                 | 21.40                 | 21.39                 |                              | 1        |
|                                 | 100     | 0         | 21.35                 | 21.32                 | 21.34                 | 21.38                 | 21.30                 |                              | 1        |

|                                                |                                                                                                                                   |                                      |                                                                                       |                                        |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMF900F                             |  <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                                                                           | <b>DUT Type:</b><br>Portable Handset | Page 72 of 176                                                                        |                                        |

**Table 9-81**  
**LTE Band 41 PC3 Reduced Conducted Powers - 15 MHz Bandwidth - Hotspot Mode Active**

| LTE Band 41<br>15 MHz Bandwidth |         |           |                       |                       |                       |                       |                       |                              |          |
|---------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                      | RB Size | RB Offset | Low Channel           | Low-Mid Channel       | Mid Channel           | Mid-High Channel      | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                 |         |           | 39750<br>(2506.0 MHz) | 40185<br>(2549.5 MHz) | 40620<br>(2593.0 MHz) | 41055<br>(2636.5 MHz) | 41490<br>(2680.0 MHz) |                              |          |
|                                 |         |           | Conducted Power [dBm] |                       |                       |                       |                       |                              |          |
| QPSK                            | 1       | 0         | 21.44                 | 21.33                 | 21.32                 | 21.46                 | 21.30                 | 0                            | 0        |
|                                 | 1       | 36        | 21.36                 | 21.31                 | 21.29                 | 21.28                 | 21.28                 |                              | 0        |
|                                 | 1       | 74        | 21.25                 | 21.24                 | 21.16                 | 21.24                 | 21.42                 |                              | 0        |
|                                 | 36      | 0         | 21.56                 | 21.49                 | 21.47                 | 21.54                 | 21.43                 | 0-1                          | 0        |
|                                 | 36      | 18        | 21.54                 | 21.45                 | 21.40                 | 21.49                 | 21.47                 |                              | 0        |
|                                 | 36      | 37        | 21.53                 | 21.46                 | 21.46                 | 21.41                 | 21.46                 |                              | 0        |
|                                 | 75      | 0         | 21.62                 | 21.45                 | 21.42                 | 21.51                 | 21.46                 |                              | 0        |
| 16QAM                           | 1       | 0         | 21.48                 | 21.35                 | 21.39                 | 21.44                 | 21.33                 | 0-1                          | 0        |
|                                 | 1       | 36        | 21.43                 | 21.40                 | 21.32                 | 21.23                 | 21.25                 |                              | 0        |
|                                 | 1       | 74        | 21.32                 | 21.30                 | 21.25                 | 21.25                 | 21.36                 |                              | 0        |
|                                 | 36      | 0         | 21.33                 | 21.42                 | 21.40                 | 21.55                 | 21.37                 | 0-2                          | 0        |
|                                 | 36      | 18        | 21.45                 | 21.40                 | 21.37                 | 21.33                 | 21.28                 |                              | 0        |
|                                 | 36      | 37        | 21.46                 | 21.41                 | 21.40                 | 21.29                 | 21.37                 |                              | 0        |
|                                 | 75      | 0         | 21.46                 | 21.47                 | 21.46                 | 21.43                 | 21.46                 |                              | 0        |
| 64QAM                           | 1       | 0         | 21.58                 | 21.06                 | 21.12                 | 21.15                 | 21.08                 | 0-2                          | 0        |
|                                 | 1       | 36        | 21.24                 | 21.27                 | 21.09                 | 21.06                 | 21.17                 |                              | 0        |
|                                 | 1       | 74        | 21.17                 | 21.06                 | 21.17                 | 21.05                 | 21.14                 |                              | 0        |
|                                 | 36      | 0         | 21.03                 | 21.01                 | 21.05                 | 21.04                 | 21.02                 | 0-3                          | 1        |
|                                 | 36      | 18        | 21.15                 | 21.00                 | 21.02                 | 21.03                 | 21.05                 |                              | 1        |
|                                 | 36      | 37        | 21.12                 | 21.02                 | 21.08                 | 21.02                 | 21.07                 |                              | 1        |
|                                 | 75      | 0         | 21.14                 | 21.02                 | 21.05                 | 21.05                 | 21.08                 |                              | 1        |

**Table 9-82**  
**LTE Band 41 PC3 Reduced Conducted Powers - 10 MHz Bandwidth - Hotspot Mode Active**

| LTE Band 41<br>10 MHz Bandwidth |         |           |                       |                       |                       |                       |                       |                              |          |
|---------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                      | RB Size | RB Offset | Low Channel           | Low-Mid Channel       | Mid Channel           | Mid-High Channel      | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                 |         |           | 39750<br>(2506.0 MHz) | 40185<br>(2549.5 MHz) | 40620<br>(2593.0 MHz) | 41055<br>(2636.5 MHz) | 41490<br>(2680.0 MHz) |                              |          |
|                                 |         |           | Conducted Power [dBm] |                       |                       |                       |                       |                              |          |
| QPSK                            | 1       | 0         | 21.09                 | 21.22                 | 21.26                 | 21.33                 | 21.30                 | 0                            | 0        |
|                                 | 1       | 25        | 20.98                 | 21.25                 | 21.23                 | 21.38                 | 21.10                 |                              | 0        |
|                                 | 1       | 49        | 21.06                 | 21.14                 | 21.16                 | 21.29                 | 21.10                 |                              | 0        |
|                                 | 25      | 0         | 21.20                 | 21.40                 | 21.42                 | 21.52                 | 21.40                 | 0-1                          | 0        |
|                                 | 25      | 12        | 21.22                 | 21.41                 | 21.40                 | 21.53                 | 21.39                 |                              | 0        |
|                                 | 25      | 25        | 21.18                 | 21.35                 | 21.34                 | 21.44                 | 21.35                 |                              | 0        |
|                                 | 50      | 0         | 21.24                 | 21.37                 | 21.41                 | 21.52                 | 21.39                 |                              | 0        |
| 16QAM                           | 1       | 0         | 21.11                 | 21.26                 | 21.27                 | 21.33                 | 21.32                 | 0-1                          | 0        |
|                                 | 1       | 25        | 21.09                 | 21.27                 | 21.31                 | 21.32                 | 21.22                 |                              | 0        |
|                                 | 1       | 49        | 21.06                 | 21.17                 | 21.17                 | 21.19                 | 21.19                 |                              | 0        |
|                                 | 25      | 0         | 21.22                 | 21.44                 | 21.38                 | 21.53                 | 21.25                 | 0-2                          | 0        |
|                                 | 25      | 12        | 21.23                 | 21.44                 | 21.37                 | 21.47                 | 21.37                 |                              | 0        |
|                                 | 25      | 25        | 21.21                 | 21.37                 | 21.32                 | 21.43                 | 21.39                 |                              | 0        |
|                                 | 50      | 0         | 21.22                 | 21.45                 | 21.37                 | 21.18                 | 21.35                 |                              | 0        |
| 64QAM                           | 1       | 0         | 21.05                 | 21.09                 | 21.04                 | 21.08                 | 21.06                 | 0-2                          | 0        |
|                                 | 1       | 25        | 21.09                 | 21.08                 | 21.04                 | 21.03                 | 21.07                 |                              | 0        |
|                                 | 1       | 49        | 21.05                 | 21.03                 | 21.08                 | 21.11                 | 21.05                 |                              | 0        |
|                                 | 25      | 0         | 20.75                 | 20.94                 | 20.93                 | 21.01                 | 20.97                 | 0-3                          | 1        |
|                                 | 25      | 12        | 20.78                 | 20.89                 | 20.92                 | 20.89                 | 20.96                 |                              | 1        |
|                                 | 25      | 25        | 20.71                 | 21.03                 | 20.87                 | 21.01                 | 20.89                 |                              | 1        |
|                                 | 50      | 0         | 20.69                 | 20.77                 | 21.00                 | 20.98                 | 20.88                 |                              | 1        |

|                                                |                                                                                     |                                      |                                                                                       |                                        |
|------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMF900F                             |  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                             | <b>DUT Type:</b><br>Portable Handset | Page 73 of 176                                                                        |                                        |

Table 9-83

## LTE Band 41 PC3 Reduced Conducted Powers - 5 MHz Bandwidth - Hotspot Mode Active

| 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         | 21.07                 | 21.26                 | 21.21                 | 21.40                 | 21.30                 | 0                            | 0        |
|                                | 1       | 12        | 21.08                 | 21.26                 | 21.23                 | 21.45                 | 21.26                 |                              | 0        |
|                                | 1       | 24        | 21.05                 | 21.27                 | 21.22                 | 21.41                 | 21.24                 |                              | 0        |
|                                | 12      | 0         | 21.16                 | 21.37                 | 21.31                 | 21.47                 | 21.35                 | 0-1                          | 0        |
|                                | 12      | 6         | 21.19                 | 21.42                 | 21.36                 | 21.48                 | 21.36                 |                              | 0        |
|                                | 12      | 13        | 21.15                 | 21.39                 | 21.37                 | 21.52                 | 21.38                 |                              | 0        |
|                                | 25      | 0         | 21.19                 | 21.38                 | 21.35                 | 21.53                 | 21.36                 |                              | 0        |
| 16QAM                          | 1       | 0         | 21.10                 | 21.32                 | 21.22                 | 21.35                 | 21.27                 | 0-1                          | 0        |
|                                | 1       | 12        | 21.09                 | 21.30                 | 21.25                 | 21.37                 | 21.31                 |                              | 0        |
|                                | 1       | 24        | 21.08                 | 21.30                 | 21.22                 | 21.39                 | 21.28                 |                              | 0        |
|                                | 12      | 0         | 21.08                 | 21.29                 | 21.19                 | 21.37                 | 21.32                 | 0-2                          | 0        |
|                                | 12      | 6         | 21.11                 | 21.31                 | 21.28                 | 21.36                 | 21.23                 |                              | 0        |
|                                | 12      | 13        | 21.12                 | 21.29                 | 21.22                 | 21.39                 | 21.32                 |                              | 0        |
|                                | 25      | 0         | 21.16                 | 21.42                 | 21.40                 | 21.53                 | 21.33                 |                              | 0        |
| 64QAM                          | 1       | 0         | 20.98                 | 21.01                 | 20.93                 | 21.10                 | 21.05                 | 0-2                          | 0        |
|                                | 1       | 12        | 20.82                 | 20.98                 | 20.98                 | 21.13                 | 21.02                 |                              | 0        |
|                                | 1       | 24        | 20.81                 | 20.99                 | 20.96                 | 21.11                 | 21.06                 |                              | 0        |
|                                | 12      | 0         | 20.73                 | 20.95                 | 20.80                 | 21.02                 | 20.84                 | 0-3                          | 1        |
|                                | 12      | 6         | 20.74                 | 20.94                 | 20.85                 | 21.01                 | 20.93                 |                              | 1        |
|                                | 12      | 13        | 20.69                 | 20.90                 | 20.85                 | 21.01                 | 20.93                 |                              | 1        |
|                                | 25      | 0         | 20.75                 | 20.97                 | 20.91                 | 21.08                 | 20.93                 |                              | 1        |

Table 9-84

## LTE Band 41 PC3 Reduced Conducted Powers - 20 MHz Bandwidth - Grip Sensor Active

| 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         | 20.17                 | 20.25                 | 20.05                 | 20.18                 | 19.95                 | 0                            | 0        |
|                                 | 1       | 50        | 20.06                 | 20.05                 | 20.04                 | 20.05                 | 20.02                 |                              | 0        |
|                                 | 1       | 99        | 20.06                 | 20.06                 | 20.02                 | 19.97                 | 20.10                 |                              | 0        |
|                                 | 50      | 0         | 20.25                 | 20.26                 | 20.25                 | 20.27                 | 20.23                 | 0-1                          | 0        |
|                                 | 50      | 25        | 20.25                 | 20.20                 | 20.15                 | 20.22                 | 20.22                 |                              | 0        |
|                                 | 50      | 50        | 20.24                 | 20.19                 | 20.22                 | 20.21                 | 20.21                 |                              | 0        |
|                                 | 100     | 0         | 20.24                 | 20.23                 | 20.14                 | 20.19                 | 20.20                 |                              | 0        |
| 16QAM                           | 1       | 0         | 20.19                 | 20.23                 | 20.08                 | 20.24                 | 20.07                 | 0-1                          | 0        |
|                                 | 1       | 50        | 20.07                 | 20.12                 | 20.01                 | 20.13                 | 20.10                 |                              | 0        |
|                                 | 1       | 99        | 20.07                 | 19.93                 | 20.01                 | 19.87                 | 20.29                 |                              | 0        |
|                                 | 50      | 0         | 20.30                 | 20.40                 | 20.29                 | 20.39                 | 20.32                 | 0-2                          | 0        |
|                                 | 50      | 25        | 20.32                 | 20.25                 | 20.28                 | 20.34                 | 20.33                 |                              | 0        |
|                                 | 50      | 50        | 20.33                 | 20.25                 | 20.27                 | 20.34                 | 20.34                 |                              | 0        |
|                                 | 100     | 0         | 20.29                 | 20.35                 | 20.26                 | 20.25                 | 20.32                 |                              | 0        |
| 64QAM                           | 1       | 0         | 19.95                 | 19.98                 | 19.85                 | 20.30                 | 19.80                 | 0-2                          | 0        |
|                                 | 1       | 50        | 19.80                 | 19.86                 | 19.82                 | 20.05                 | 19.80                 |                              | 0        |
|                                 | 1       | 99        | 19.80                 | 19.63                 | 19.75                 | 19.90                 | 19.98                 |                              | 0        |
|                                 | 50      | 0         | 20.35                 | 20.45                 | 20.31                 | 19.64                 | 20.32                 | 0-3                          | 0        |
|                                 | 50      | 25        | 20.37                 | 20.43                 | 20.27                 | 20.48                 | 20.35                 |                              | 0        |
|                                 | 50      | 50        | 20.36                 | 20.28                 | 20.31                 | 20.40                 | 20.43                 |                              | 0        |
|                                 | 100     | 0         | 20.35                 | 20.38                 | 20.22                 | 20.32                 | 20.32                 |                              | 0        |

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 74 of 176                  |

Table 9-85

## LTE Band 41 PC3 Reduced Conducted Powers - 15 MHz Bandwidth - Grip Sensor Active

| 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         | 19.90                 | 20.08                 | 20.04                 | 20.33                 | 20.03                 | 0                            | 0        |
|                                 | 1       | 36        | 19.77                 | 20.02                 | 19.93                 | 20.34                 | 19.99                 |                              | 0        |
|                                 | 1       | 74        | 19.84                 | 19.96                 | 20.01                 | 20.02                 | 20.07                 |                              | 0        |
|                                 | 36      | 0         | 19.97                 | 20.22                 | 20.18                 | 20.42                 | 20.20                 | 0-1                          | 0        |
|                                 | 36      | 18        | 20.01                 | 20.21                 | 20.19                 | 20.36                 | 20.16                 |                              | 0        |
|                                 | 36      | 37        | 19.99                 | 20.17                 | 20.22                 | 20.32                 | 20.22                 |                              | 0        |
|                                 | 75      | 0         | 19.99                 | 20.18                 | 20.18                 | 20.35                 | 20.21                 |                              | 0        |
| 16QAM                           | 1       | 0         | 19.94                 | 20.15                 | 20.09                 | 20.30                 | 20.09                 | 0-1                          | 0        |
|                                 | 1       | 36        | 19.77                 | 20.03                 | 20.02                 | 20.13                 | 19.95                 |                              | 0        |
|                                 | 1       | 74        | 19.83                 | 19.99                 | 19.98                 | 19.98                 | 20.14                 |                              | 0        |
|                                 | 36      | 0         | 19.94                 | 20.14                 | 20.12                 | 20.31                 | 20.16                 | 0-2                          | 0        |
|                                 | 36      | 18        | 19.89                 | 20.14                 | 20.14                 | 20.24                 | 20.12                 |                              | 0        |
|                                 | 36      | 37        | 19.92                 | 20.07                 | 20.09                 | 20.16                 | 20.18                 |                              | 0        |
|                                 | 75      | 0         | 20.00                 | 20.18                 | 20.19                 | 20.32                 | 20.21                 |                              | 0        |
| 64QAM                           | 1       | 0         | 19.64                 | 19.84                 | 19.88                 | 20.05                 | 19.82                 | 0-2                          | 0        |
|                                 | 1       | 36        | 19.50                 | 19.79                 | 19.78                 | 19.98                 | 19.79                 |                              | 0        |
|                                 | 1       | 74        | 19.53                 | 19.79                 | 19.74                 | 19.82                 | 19.85                 |                              | 0        |
|                                 | 36      | 0         | 19.98                 | 20.21                 | 20.19                 | 20.35                 | 20.17                 | 0-3                          | 0        |
|                                 | 36      | 18        | 19.97                 | 20.23                 | 20.21                 | 20.29                 | 20.21                 |                              | 0        |
|                                 | 36      | 37        | 19.96                 | 20.17                 | 20.15                 | 20.23                 | 20.20                 |                              | 0        |
|                                 | 75      | 0         | 20.03                 | 20.26                 | 20.21                 | 20.29                 | 20.24                 |                              | 0        |

Table 9-86

## LTE Band 41 PC3 Reduced Conducted Powers - 10 MHz Bandwidth - Grip Sensor Active

| 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         | 19.77                 | 19.97                 | 19.98                 | 20.08                 | 19.92                 | 0                            | 0        |
|                                 | 1       | 25        | 19.96                 | 20.01                 | 19.93                 | 20.11                 | 19.98                 |                              | 0        |
|                                 | 1       | 49        | 19.74                 | 19.89                 | 19.82                 | 19.96                 | 19.78                 |                              | 0        |
|                                 | 25      | 0         | 19.91                 | 20.15                 | 20.12                 | 20.30                 | 20.16                 | 0-1                          | 0        |
|                                 | 25      | 12        | 19.92                 | 20.17                 | 20.11                 | 20.19                 | 20.12                 |                              | 0        |
|                                 | 25      | 25        | 19.87                 | 20.11                 | 20.05                 | 20.18                 | 20.05                 |                              | 0        |
|                                 | 50      | 0         | 19.89                 | 20.11                 | 20.12                 | 20.25                 | 20.11                 |                              | 0        |
| 16QAM                           | 1       | 0         | 19.78                 | 19.97                 | 20.04                 | 20.08                 | 20.11                 | 0-1                          | 0        |
|                                 | 1       | 25        | 19.71                 | 20.01                 | 19.96                 | 20.08                 | 20.02                 |                              | 0        |
|                                 | 1       | 49        | 19.78                 | 19.96                 | 19.98                 | 19.96                 | 19.95                 |                              | 0        |
|                                 | 25      | 0         | 19.93                 | 20.18                 | 20.18                 | 20.25                 | 20.17                 | 0-2                          | 0        |
|                                 | 25      | 12        | 19.97                 | 20.13                 | 20.13                 | 20.24                 | 20.16                 |                              | 0        |
|                                 | 25      | 25        | 19.87                 | 20.12                 | 20.09                 | 20.17                 | 20.08                 |                              | 0        |
|                                 | 50      | 0         | 19.91                 | 20.18                 | 20.12                 | 20.25                 | 20.09                 |                              | 0        |
| 64QAM                           | 1       | 0         | 19.63                 | 19.75                 | 20.20                 | 19.95                 | 19.79                 | 0-2                          | 0        |
|                                 | 1       | 25        | 19.46                 | 19.78                 | 20.03                 | 19.80                 | 19.75                 |                              | 0        |
|                                 | 1       | 49        | 19.46                 | 19.63                 | 19.87                 | 19.73                 | 19.65                 |                              | 0        |
|                                 | 25      | 0         | 19.88                 | 20.13                 | 20.17                 | 20.21                 | 20.07                 | 0-3                          | 0        |
|                                 | 25      | 12        | 19.88                 | 20.13                 | 20.16                 | 20.20                 | 20.09                 |                              | 0        |
|                                 | 25      | 25        | 19.85                 | 20.08                 | 20.07                 | 20.14                 | 20.03                 |                              | 0        |
|                                 | 50      | 0         | 19.97                 | 20.20                 | 20.15                 | 20.26                 | 20.16                 |                              | 0        |

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 75 of 176                  |

**Table 9-87**  
**LTE Band 41 PC3 Reduced Conducted Powers - 5 MHz Bandwidth - Grip Sensor Active**

| 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         | 19.80                 | 20.04                 | 20.00                 | 20.09                 | 20.05                 | 0                            | 0        |
|                                | 1       | 12        | 19.84                 | 20.04                 | 19.98                 | 20.08                 | 19.99                 |                              | 0        |
|                                | 1       | 24        | 19.80                 | 20.03                 | 19.97                 | 20.13                 | 19.99                 |                              | 0        |
|                                | 12      | 0         | 19.94                 | 20.11                 | 20.01                 | 20.18                 | 20.12                 | 0-1                          | 0        |
|                                | 12      | 6         | 19.94                 | 20.19                 | 20.10                 | 20.19                 | 20.09                 |                              | 0        |
|                                | 12      | 13        | 19.90                 | 20.16                 | 20.04                 | 20.23                 | 20.12                 |                              | 0        |
|                                | 25      | 0         | 19.94                 | 20.18                 | 20.10                 | 20.26                 | 20.07                 |                              | 0        |
| 16QAM                          | 1       | 0         | 19.80                 | 20.04                 | 20.02                 | 20.13                 | 20.09                 | 0-1                          | 0        |
|                                | 1       | 12        | 19.83                 | 20.06                 | 19.98                 | 20.08                 | 20.03                 |                              | 0        |
|                                | 1       | 24        | 19.83                 | 20.06                 | 19.98                 | 20.13                 | 20.06                 |                              | 0        |
|                                | 12      | 0         | 19.88                 | 20.06                 | 19.94                 | 20.13                 | 20.02                 | 0-2                          | 0        |
|                                | 12      | 6         | 19.82                 | 20.09                 | 20.02                 | 20.12                 | 20.02                 |                              | 0        |
|                                | 12      | 13        | 19.83                 | 20.02                 | 19.98                 | 20.11                 | 20.06                 |                              | 0        |
|                                | 25      | 0         | 19.90                 | 20.15                 | 20.12                 | 20.23                 | 20.12                 |                              | 0        |
| 64QAM                          | 1       | 0         | 19.57                 | 19.75                 | 19.82                 | 19.98                 | 19.76                 | 0-2                          | 0        |
|                                | 1       | 12        | 19.55                 | 19.78                 | 19.75                 | 19.89                 | 19.79                 |                              | 0        |
|                                | 1       | 24        | 19.56                 | 19.77                 | 19.71                 | 19.86                 | 19.76                 |                              | 0        |
|                                | 12      | 0         | 19.87                 | 20.10                 | 19.98                 | 20.10                 | 20.01                 | 0-3                          | 0        |
|                                | 12      | 6         | 19.85                 | 20.09                 | 20.06                 | 20.18                 | 20.02                 |                              | 0        |
|                                | 12      | 13        | 19.86                 | 20.09                 | 20.05                 | 20.15                 | 20.02                 |                              | 0        |
|                                | 25      | 0         | 19.92                 | 20.18                 | 20.07                 | 20.17                 | 20.05                 |                              | 0        |

### 9.3.11 LTE Uplink Carrier Aggregation Conducted Powers

**Table 9-88**  
**LTE Band 66 Uplink Carrier Aggregation Maximum Conducted Powers**

| Combination | PCC      |                     |                  |                          |                |                        |            |            |                  | SCC      |                     |                  |                          |                  |                          |            |            |                  | Power                                 |                                   |
|-------------|----------|---------------------|------------------|--------------------------|----------------|------------------------|------------|------------|------------------|----------|---------------------|------------------|--------------------------|------------------|--------------------------|------------|------------|------------------|---------------------------------------|-----------------------------------|
|             | PCC Band | PCC Bandwidth [MHz] | PCC (UL) Channel | PCC (UL) Frequency [MHz] | PCC DL Channel | PCC DL Frequency [MHz] | Modulation | PCC UL# RB | PCC UL RB Offset | SCC Band | SCC Bandwidth [MHz] | SCC (UL) Channel | SCC (UL) Frequency [MHz] | SCC (DL) Channel | SCC (DL) Frequency [MHz] | Modulation | SCC UL# RB | SCC UL RB Offset | LTE Tx Power with UL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA_66C      | LTE B66  | 20                  | 132072           | 1720.0                   | 66536          | 2120.0                 | QPSK       | 1          | 99               | LTE B66  | 20                  | 132270           | 1739.8                   | 66734            | 2139.8                   | QPSK       | 1          | 0                | 24.19                                 | 23.98                             |
| CA_66B      | LTE B66  | 10                  | 132022           | 1715.0                   | 66486          | 2115.0                 | QPSK       | 1          | 49               | LTE B66  | 10                  | 132121           | 1724.9                   | 66585            | 2124.9                   | QPSK       | 1          | 0                | 24.36                                 | 24.02                             |

**Table 9-89**  
**LTE Band 7 Uplink Carrier Aggregation Maximum Conducted Powers**

| Combination | PCC      |                     |                |                        |                |                        |            |            |                  | SCC      |                     |                |                        |                |                        |            |            |                  | Power                                 |                                   |
|-------------|----------|---------------------|----------------|------------------------|----------------|------------------------|------------|------------|------------------|----------|---------------------|----------------|------------------------|----------------|------------------------|------------|------------|------------------|---------------------------------------|-----------------------------------|
|             | 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_7C       | LTE B7   | 20                  | 20850          | 2510.0                 | 2850           | 2630.0                 | QPSK       | 1          | 99               | LTE B7   | 20                  | 21048          | 2529.8                 | 3048           | 2649.8                 | QPSK       | 1          | 0                | 23.80                                 | 24.17                             |
| CA_7C       | LTE B7   | 20                  | 21100          | 2535.0                 | 3100           | 2655.0                 | QPSK       | 1          | 0                | LTE B7   | 20                  | 20902          | 2515.2                 | 2902           | 2635.2                 | QPSK       | 1          | 99               | 24.07                                 | 24.12                             |
| CA_7C       | LTE B7   | 20                  | 21350          | 2560.0                 | 3350           | 2680.0                 | QPSK       | 1          | 0                | LTE B7   | 20                  | 21152          | 2540.2                 | 3152           | 2660.2                 | QPSK       | 1          | 99               | 23.90                                 | 24.07                             |

**Table 9-90**  
**LTE Band 66 Uplink Carrier Aggregation Reduced Conducted Powers - Hotspot Mode Active**

| Combination | PCC      |                     |                  |                          |                |                        |            |            |                  | SCC      |                     |                  |                          |                     |                             |            |            |                  | Power                                 |                                   |
|-------------|----------|---------------------|------------------|--------------------------|----------------|------------------------|------------|------------|------------------|----------|---------------------|------------------|--------------------------|---------------------|-----------------------------|------------|------------|------------------|---------------------------------------|-----------------------------------|
|             | 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 (UL/DL) Channel | SCC (UL/DL) Frequency [MHz] | Modulation | SCC UL# RB | SCC UL RB Offset | LTE Tx Power with UL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA_66C      | LTE B66  | 20                  | 132572           | 1770.0                   | 67036          | 2170.0                 | QPSK       | 50         | 0                | LTE B66  | 20                  | 132374           | 1750.2                   | 66838               | 2150.2                      | QPSK       | 50         | 50               | 20.30                                 | 19.82                             |
| CA_66B      | LTE B66  | 10                  | 132622           | 1775.0                   | 67086          | 2175.0                 | QPSK       | 25         | 0                | LTE B66  | 10                  | 132523           | 1765.1                   | 66987               | 2165.1                      | QPSK       | 25         | 25               | 19.90                                 | 19.64                             |

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset | Page 76 of 176                                                                        |                                 |

Table 9-91

## LTE Band 66 Uplink Carrier Aggregation Reduced Conducted Powers - Grip Sensor Active

| 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 | Power                                 |                                   |
|-------------|----------|---------------------|------------------|--------------------------|----------------|------------------------|------------|------------|------------------|----------|---------------------|------------------|--------------------------|------------------|--------------------------|------------|------------|------------------|---------------------------------------|-----------------------------------|
|             |          |                     |                  |                          |                |                        |            |            |                  |          |                     |                  |                          |                  |                          |            |            |                  | LTE Tx Power with UL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA_66C      | LTE B66  | 20                  | 132072           | 1720.0                   | 66536          | 2120.0                 | QPSK       | 1          | 99               | LTE B66  | 20                  | 132270           | 1739.8                   | 66734            | 2139.8                   | QPSK       | 1          | 0                | 19.17                                 | 18.62                             |
| CA_66C      | LTE B66  | 20                  | 132322           | 1745.0                   | 66786          | 2145.0                 | QPSK       | 1          | 99               | LTE B66  | 20                  | 132520           | 1764.8                   | 66984            | 2164.8                   | QPSK       | 1          | 0                | 18.90                                 | 18.58                             |
| CA_66C      | LTE B66  | 20                  | 132572           | 1770.0                   | 67036          | 2170.0                 | QPSK       | 1          | 0                | LTE B66  | 20                  | 132374           | 1750.2                   | 66838            | 2150.2                   | QPSK       | 1          | 99               | 19.05                                 | 18.63                             |
| CA_66B      | LTE B66  | 10                  | 132622           | 1775.0                   | 67086          | 2175.0                 | QPSK       | 1          | 0                | LTE B66  | 10                  | 132523           | 1765.1                   | 66987            | 2165.1                   | QPSK       | 1          | 49               | 19.00                                 | 18.45                             |
| CA_66C      | LTE B66  | 20                  | 132072           | 1720.0                   | 66536          | 2120.0                 | QPSK       | 50         | 50               | LTE B66  | 20                  | 132270           | 1739.8                   | 66734            | 2139.8                   | QPSK       | 50         | 0                | 19.31                                 | 18.75                             |
| CA_66B      | LTE B66  | 10                  | 132022           | 1715.0                   | 66486          | 2115.0                 | QPSK       | 25         | 25               | LTE B66  | 10                  | 132121           | 1724.9                   | 66585            | 2124.9                   | QPSK       | 25         | 0                | 18.94                                 | 18.60                             |
| CA_66C      | LTE B66  | 20                  | 132322           | 1745.0                   | 66786          | 2145.0                 | QPSK       | 50         | 0                | LTE B66  | 20                  | 132124           | 1725.2                   | 66588            | 2125.2                   | QPSK       | 50         | 50               | 19.10                                 | 18.73                             |
| CA_66B      | LTE B66  | 10                  | 132322           | 1745.0                   | 66786          | 2145.0                 | QPSK       | 25         | 0                | LTE B66  | 10                  | 132223           | 1735.1                   | 66687            | 2135.1                   | QPSK       | 25         | 25               | 18.99                                 | 18.72                             |
| CA_66C      | LTE B66  | 20                  | 132572           | 1770.0                   | 67036          | 2170.0                 | QPSK       | 50         | 0                | LTE B66  | 20                  | 132374           | 1750.2                   | 66838            | 2150.2                   | QPSK       | 50         | 50               | 19.25                                 | 18.78                             |
| CA_66B      | LTE B66  | 10                  | 132622           | 1775.0                   | 67086          | 2175.0                 | QPSK       | 25         | 0                | LTE B66  | 10                  | 132523           | 1765.1                   | 66987            | 2165.1                   | QPSK       | 25         | 25               | 18.93                                 | 18.76                             |

Table 9-92

## LTE Band 7 Uplink Carrier Aggregation Reduced Conducted Powers - Grip Sensor Active

| 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 | Power                                 |                                   |
|-------------|----------|---------------------|------------------|--------------------------|----------------|------------------------|------------|------------|------------------|----------|---------------------|------------------|--------------------------|------------------|--------------------------|------------|------------|------------------|---------------------------------------|-----------------------------------|
|             |          |                     |                  |                          |                |                        |            |            |                  |          |                     |                  |                          |                  |                          |            |            |                  | LTE Tx Power with UL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA_7C       | LTE B7   | 20                  | 21350            | 2560.0                   | 3350           | 2680.0                 | QPSK       | 50         | 0                | LTE B7   | 20                  | 21152            | 2540.2                   | 3152             | 2660.2                   | QPSK       | 50         | 50               | 19.18                                 | 18.68                             |

## Notes:

1. This device supports uplink carrier aggregation for LTE CA\_66B, LTE CA\_66C, and LTE CA\_7C 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 9-3  
Power Measurement Setup

## 9.4 WLAN Conducted Powers

Note: Powers for 802.11ax RU operations can be found in Appendix I.

Table 9-93

## 2.4 GHz WLAN Maximum Average RF Power – Ant 1

| 2.4GHz Conducted Power [dBm] |         |                        |         |         |              |
|------------------------------|---------|------------------------|---------|---------|--------------|
| Freq [MHz]                   | Channel | IEEE Transmission Mode |         |         |              |
|                              |         | 802.11b                | 802.11g | 802.11n | 802.11ax(SU) |
|                              |         | Average                | Average | Average | Average      |
| 2412                         | 1       | 19.97                  | 16.21   | 16.26   | 13.18        |
| 2427                         | 4       | N/A                    | 17.66   | 17.76   | 16.45        |
| 2437                         | 6       | 19.92                  | 17.91   | 17.85   | 16.67        |
| 2452                         | 9       | N/A                    | 17.47   | 17.96   | 16.63        |
| 2462                         | 11      | 19.72                  | 15.10   | 15.48   | 14.48        |

|                                         |                                                                                     |                               |                       |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|-----------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  |                               | SAR EVALUATION REPORT |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                       | Page 77 of 176                                                                        |                                 |

**Table 9-94**  
**2.4 GHz WLAN Maximum Average RF Power – Ant 2**

| 2.4GHz Conducted Power [dBm] |         |                        |         |         |              |
|------------------------------|---------|------------------------|---------|---------|--------------|
| Freq [MHz]                   | Channel | IEEE Transmission Mode |         |         |              |
|                              |         | 802.11b                | 802.11g | 802.11n | 802.11ax(SU) |
|                              |         | Average                | Average | Average | Average      |
| 2412                         | 1       | <b>19.98</b>           | 16.28   | 16.23   | 16.54        |
| 2427                         | 4       | N/A                    | 17.63   | 17.98   | N/A          |
| 2437                         | 6       | 19.95                  | 17.66   | 17.89   | 16.60        |
| 2452                         | 9       | N/A                    | 17.38   | 17.85   | 16.98        |
| 2462                         | 11      | 19.75                  | 15.10   | 15.45   | 16.91        |

**Table 9-95**  
**2.4 GHz WLAN Maximum Average RF Power – MIMO**

| 2.4GHz 802.11n Conducted Power [dBm] |         |              |              |       |
|--------------------------------------|---------|--------------|--------------|-------|
| Freq [MHz]                           | Channel | ANT1         | ANT2         | MIMO  |
| 2412                                 | 1       | 16.26        | 16.23        | 19.26 |
| 2427                                 | 4       | 17.76        | 17.98        | 20.88 |
| 2437                                 | 6       | 17.85        | 17.89        | 20.88 |
| 2452                                 | 9       | <b>17.96</b> | <b>17.85</b> | 20.92 |
| 2462                                 | 11      | 15.48        | 15.45        | 18.48 |

**Table 9-96**  
**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 | 802.11ax(SU) |
|                              |         | Average                | Average | Average | Average      |
| 2412                         | 1       | 16.79                  | 16.22   | 16.43   | 12.71        |
| 2422                         | 3       | N/A                    | 16.73   | 16.92   | 15.56        |
| 2427                         | 4       | N/A                    | N/A     | N/A     | 16.82        |
| 2437                         | 6       | 16.68                  | 16.46   | 16.60   | 16.72        |
| 2452                         | 9       | N/A                    | N/A     | N/A     | 16.32        |
| 2457                         | 10      | N/A                    | 16.60   | 16.76   | 15.02        |
| 2462                         | 11      | <b>16.85</b>           | 15.10   | 15.48   | 14.48        |

**Table 9-97**  
**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 | 802.11ax(SU) |
|                              |         | Average                | Average | Average | Average      |
| 2412                         | 1       | 16.68                  | 16.11   | 16.03   | 16.81        |
| 2422                         | 3       | N/A                    | 16.25   | 16.36   | N/A          |
| 2437                         | 6       | 16.55                  | 16.84   | 16.75   | 16.93        |
| 2457                         | 10      | N/A                    | 16.70   | 16.62   | N/A          |
| 2462                         | 11      | <b>16.82</b>           | 15.10   | 15.45   | 16.75        |

|                                                |                                                                                     |                                      |                                                                                       |                                        |
|------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMF900F                             |  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                             | <b>DUT Type:</b><br>Portable Handset | Page 78 of 176                                                                        |                                        |

**Table 9-98**  
**2.4 GHz WLAN Reduced Average RF Power – MIMO**

| 2.4GHz 802.11n Conducted Power [dBm] |         |              |              |       |
|--------------------------------------|---------|--------------|--------------|-------|
| Freq [MHz]                           | Channel | ANT1         | ANT2         | MIMO  |
| 2412                                 | 1       | 16.43        | 16.03        | 19.24 |
| 2422                                 | 3       | 16.92        | 16.36        | 19.66 |
| 2437                                 | 6       | 16.60        | 16.75        | 19.69 |
| 2457                                 | 10      | <b>16.76</b> | <b>16.62</b> | 19.70 |
| 2462                                 | 11      | 15.48        | 15.45        | 18.48 |

**Table 9-99**  
**5 GHz WLAN Maximum Average RF Power – Ant 1**

| 5GHz (20MHz) Conducted Power [dBm] |         |                        |         |          |              |
|------------------------------------|---------|------------------------|---------|----------|--------------|
| Freq [MHz]                         | Channel | IEEE Transmission Mode |         |          |              |
|                                    |         | 802.11a                | 802.11n | 802.11ac | 802.11ax(SU) |
|                                    |         | Average                | Average | Average  | Average      |
| 5180                               | 36      | 17.98                  | 17.94   | 17.96    | 15.68        |
| 5200                               | 40      | 17.99                  | 17.98   | 17.69    | 15.76        |
| 5220                               | 44      | 17.58                  | 17.99   | 17.64    | 15.72        |
| 5240                               | 48      | 17.68                  | 17.68   | 17.67    | 15.75        |
| 5260                               | 52      | 17.75                  | 17.76   | 17.71    | 15.61        |
| 5280                               | 56      | 17.80                  | 17.90   | 17.79    | 15.73        |
| 5300                               | 60      | 17.87                  | 17.89   | 17.91    | 15.70        |
| 5320                               | 64      | <b>17.91</b>           | 17.77   | 17.76    | 15.72        |
| 5500                               | 100     | <b>17.94</b>           | 17.94   | 17.98    | 15.64        |
| 5600                               | 120     | 17.74                  | 17.66   | 17.75    | 15.82        |
| 5620                               | 124     | 17.68                  | 17.72   | 17.81    | 15.79        |
| 5720                               | 144     | 17.83                  | 17.82   | 17.82    | 15.72        |
| 5745                               | 149     | 17.94                  | 17.89   | 17.96    | 15.97        |
| 5785                               | 157     | <b>17.97</b>           | 17.91   | 17.99    | 15.99        |
| 5825                               | 165     | 17.95                  | 17.93   | 17.56    | 15.79        |

|                                                |                                                                                                                                   |                                      |                                                                                       |                                        |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMF900F                             |  <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                                                                           | <b>DUT Type:</b><br>Portable Handset | Page 79 of 176                                                                        |                                        |

**Table 9-100**  
**5 GHz WLAN Maximum Average RF Power – Ant 2**

| 5GHz (20MHz) Conducted Power [dBm] |         |                        |         |          |              |
|------------------------------------|---------|------------------------|---------|----------|--------------|
| Freq [MHz]                         | Channel | IEEE Transmission Mode |         |          |              |
|                                    |         | 802.11a                | 802.11n | 802.11ac | 802.11ax(SU) |
|                                    |         | Average                | Average | Average  | Average      |
| 5180                               | 36      | 17.79                  | 17.76   | 17.73    | 15.62        |
| 5200                               | 40      | 17.85                  | 17.88   | 17.94    | 15.67        |
| 5220                               | 44      | 17.92                  | 17.95   | 17.97    | 15.77        |
| 5240                               | 48      | 17.98                  | 17.98   | 17.99    | 15.96        |
| 5260                               | 52      | 17.87                  | 17.91   | 17.89    | 15.74        |
| 5280                               | 56      | <b>17.99</b>           | 17.99   | 17.98    | 15.83        |
| 5300                               | 60      | 17.68                  | 17.69   | 17.66    | 15.98        |
| 5320                               | 64      | 17.65                  | 17.62   | 17.97    | 15.94        |
| 5500                               | 100     | 17.84                  | 17.86   | 17.82    | 15.71        |
| 5600                               | 120     | 17.68                  | 17.74   | 17.73    | 15.89        |
| 5620                               | 124     | 17.76                  | 17.71   | 17.69    | 15.92        |
| 5720                               | 144     | <b>17.98</b>           | 17.96   | 17.98    | 15.84        |
| 5745                               | 149     | 17.73                  | 17.66   | 17.81    | 15.97        |
| 5785                               | 157     | <b>17.86</b>           | 17.84   | 17.78    | 15.64        |
| 5825                               | 165     | 17.76                  | 17.77   | 17.76    | 15.98        |

**Table 9-101**  
**5 GHz WLAN Maximum Average RF Power – MIMO**

| 5GHz (20MHz) 802.11n Conducted Power [dBm] |         |              |              |              |
|--------------------------------------------|---------|--------------|--------------|--------------|
| Freq [MHz]                                 | Channel | ANT1         | ANT2         | MIMO         |
| 5180                                       | 36      | 17.94        | 17.76        | 20.86        |
| 5200                                       | 40      | 17.98        | 17.88        | 20.94        |
| 5220                                       | 44      | 17.99        | 17.95        | 20.98        |
| 5240                                       | 48      | 17.68        | 17.98        | 20.84        |
| 5260                                       | 52      | 17.76        | 17.91        | 20.85        |
| 5280                                       | 56      | <b>17.90</b> | <b>17.99</b> | <b>20.96</b> |
| 5300                                       | 60      | 17.89        | 17.69        | 20.80        |
| 5320                                       | 64      | 17.77        | 17.62        | 20.71        |
| 5500                                       | 100     | <b>17.94</b> | <b>17.86</b> | <b>20.91</b> |
| 5600                                       | 120     | 17.66        | 17.74        | 20.71        |
| 5620                                       | 124     | 17.72        | 17.71        | 20.73        |
| 5720                                       | 144     | 17.82        | 17.96        | 20.90        |
| 5745                                       | 149     | 17.89        | 17.66        | 20.79        |
| 5785                                       | 157     | <b>17.91</b> | <b>17.84</b> | <b>20.89</b> |
| 5825                                       | 165     | 17.93        | 17.77        | 20.86        |

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 80 of 176                  |

**Table 9-102**  
**5 GHz WLAN Reduced Average RF Power – Ant 1**

| 5GHz (40MHz) Conducted Power [dBm] |         |                        |          |              |
|------------------------------------|---------|------------------------|----------|--------------|
| Freq [MHz]                         | Channel | IEEE Transmission Mode |          |              |
|                                    |         | 802.11n                | 802.11ac | 802.11ax(SU) |
|                                    |         | Average                | Average  | Average      |
| 5190                               | 38      | 13.63                  | 13.63    | 13.97        |
| 5230                               | 46      | 13.68                  | 13.65    | 13.60        |
| 5270                               | 54      | 13.76                  | 13.64    | 13.75        |
| 5310                               | 62      | <b>13.87</b>           | 13.84    | 13.71        |
| 5510                               | 102     | 13.59                  | 13.57    | 13.83        |
| 5590                               | 118     | 13.86                  | 13.87    | 13.76        |
| 5630                               | 126     | 13.80                  | 13.97    | 13.77        |
| 5710                               | 142     | 13.90                  | 13.89    | 13.75        |
| 5755                               | 151     | 13.68                  | 13.69    | 13.87        |
| 5795                               | 159     | 13.45                  | 13.56    | 13.90        |

| 5GHz (80MHz) Conducted Power [dBm] |         |                        |              |
|------------------------------------|---------|------------------------|--------------|
| Freq [MHz]                         | Channel | IEEE Transmission Mode |              |
|                                    |         | 802.11ac               | 802.11ax(SU) |
|                                    |         | Average                | Average      |
| 5210                               | 42      | 12.69                  | 12.46        |
| 5290                               | 58      | 12.87                  | 12.72        |
| 5530                               | 106     | 12.86                  | 12.75        |
| 5610                               | 122     | 12.78                  | 12.55        |
| 5690                               | 138     | 12.82                  | 12.72        |
| 5775                               | 155     | 12.58                  | 12.83        |

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 81 of 176                  |

**Table 9-103**  
**5 GHz WLAN Reduced Average RF Power – Ant 2**

| 5GHz (40MHz) Conducted Power [dBm] |         |                        |          |              |
|------------------------------------|---------|------------------------|----------|--------------|
| Freq [MHz]                         | Channel | IEEE Transmission Mode |          |              |
|                                    |         | 802.11n                | 802.11ac | 802.11ax(SU) |
|                                    |         | Average                | Average  | Average      |
| 5190                               | 38      | 13.65                  | 13.60    | 13.95        |
| 5230                               | 46      | 13.74                  | 13.76    | 13.64        |
| 5270                               | 54      | 13.92                  | 13.55    | 13.76        |
| 5310                               | 62      | <b>13.94</b>           | 13.95    | 13.61        |
| 5510                               | 102     | 13.93                  | 13.88    | 13.93        |
| 5590                               | 118     | 13.95                  | 13.92    | 13.95        |
| 5630                               | 126     | 13.67                  | 13.61    | 13.95        |
| 5710                               | 142     | 13.81                  | 13.72    | 13.51        |
| 5755                               | 151     | 13.66                  | 13.71    | 13.86        |
| 5795                               | 159     | 13.53                  | 13.52    | 13.75        |

| 5GHz (80MHz) Conducted Power [dBm] |         |                        |              |
|------------------------------------|---------|------------------------|--------------|
| Freq [MHz]                         | Channel | IEEE Transmission Mode |              |
|                                    |         | 802.11ac               | 802.11ax(SU) |
|                                    |         | Average                | Average      |
| 5210                               | 42      | 12.88                  | 12.55        |
| 5290                               | 58      | 12.72                  | 12.57        |
| 5530                               | 106     | 12.80                  | 12.56        |
| 5610                               | 122     | <b>12.86</b>           | 12.47        |
| 5690                               | 138     | 12.36                  | 12.68        |
| 5775                               | 155     | <b>12.85</b>           | 12.79        |

**Table 9-104**  
**5 GHz WLAN Reduced Average RF Power – MIMO**

| 5GHz (40MHz) 802.11n Conducted Power [dBm] |         |              |              |              |
|--------------------------------------------|---------|--------------|--------------|--------------|
| Freq [MHz]                                 | Channel | ANT1         | ANT2         | MIMO         |
| 5190                                       | 38      | 13.63        | 13.65        | 16.65        |
| 5230                                       | 46      | 13.68        | 13.74        | 16.72        |
| 5270                                       | 54      | 13.76        | 13.92        | 16.85        |
| 5310                                       | 62      | <b>13.87</b> | <b>13.94</b> | <b>16.92</b> |
| 5510                                       | 102     | 13.59        | 13.93        | 16.77        |
| 5590                                       | 118     | 13.86        | 13.95        | 16.92        |
| 5630                                       | 126     | 13.80        | 13.67        | 16.75        |
| 5710                                       | 142     | 13.90        | 13.81        | 16.87        |
| 5755                                       | 151     | 13.68        | 13.66        | 16.68        |
| 5795                                       | 159     | 13.45        | 13.53        | 16.50        |

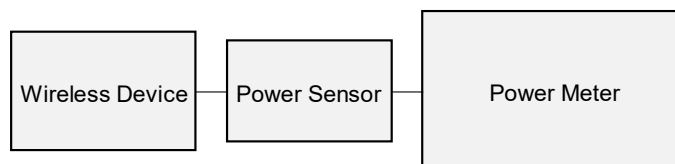
  

| 5GHz (80MHz) 802.11ac Conducted Power [dBm] |         |              |              |              |
|---------------------------------------------|---------|--------------|--------------|--------------|
| Freq [MHz]                                  | Channel | ANT1         | ANT2         | MIMO         |
| 5210                                        | 42      | 9.10         | 9.96         | 12.56        |
| 5290                                        | 58      | 9.74         | 9.76         | 12.76        |
| 5530                                        | 106     | <b>12.86</b> | <b>12.80</b> | <b>15.84</b> |
| 5610                                        | 122     | 12.78        | 12.86        | 15.83        |
| 5690                                        | 138     | 12.82        | 12.36        | 15.61        |
| 5775                                        | 155     | <b>12.58</b> | <b>12.85</b> | <b>15.73</b> |

|                                                |                                                                                     |                                      |                                                                                       |                                        |
|------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMF900F                             |  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                             | <b>DUT Type:</b><br>Portable Handset | Page 82 of 176                                                                        |                                        |

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.
- The bolded data rate and channel above were tested for SAR.



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

## 9.5 Bluetooth Conducted Powers

**Table 9-105**  
**Bluetooth Average RF Power**

| Frequency<br>[MHz] | Data<br>Rate<br>[Mbps] | Mod.           | Channel<br>No. | Avg Conducted<br>Power |        |
|--------------------|------------------------|----------------|----------------|------------------------|--------|
|                    |                        |                |                | [dBm]                  | [mW]   |
| 2402               | 1.0                    | GFSK           | 0              | <b>16.18</b>           | 41.479 |
| 2441               | 1.0                    | GFSK           | 39             | 16.13                  | 40.997 |
| 2480               | 1.0                    | GFSK           | 78             | 14.88                  | 30.781 |
| 2402               | 2.0                    | $\pi/4$ -DQPSK | 0              | 9.42                   | 8.742  |
| 2441               | 2.0                    | $\pi/4$ -DQPSK | 39             | 9.30                   | 8.509  |
| 2480               | 2.0                    | $\pi/4$ -DQPSK | 78             | 8.43                   | 6.964  |
| 2402               | 3.0                    | 8DPSK          | 0              | 9.49                   | 8.883  |
| 2441               | 3.0                    | 8DPSK          | 39             | 9.39                   | 8.688  |
| 2480               | 3.0                    | 8DPSK          | 78             | 8.53                   | 7.136  |

Note: The bolded data rates and channel above were tested for SAR.

|                                                |                                                                                     |                                      |                                                                                       |                                        |
|------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMF900F                             |  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                             | <b>DUT Type:</b><br>Portable Handset | Page 83 of 176                                                                        |                                        |

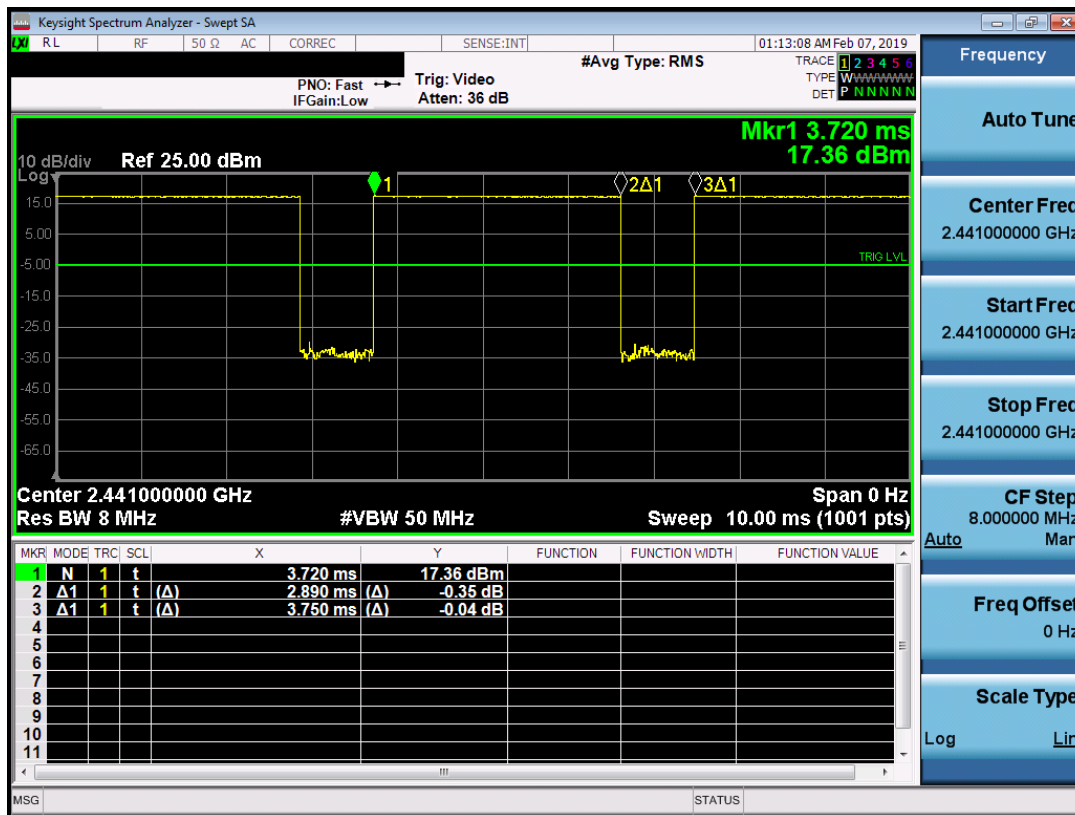


Figure 9-5  
Bluetooth Transmission Plot

Equation 9-1  
Bluetooth Duty Cycle Calculation

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.89\text{ms}}{3.75\text{ms}} * 100\% = 77.10\%$$

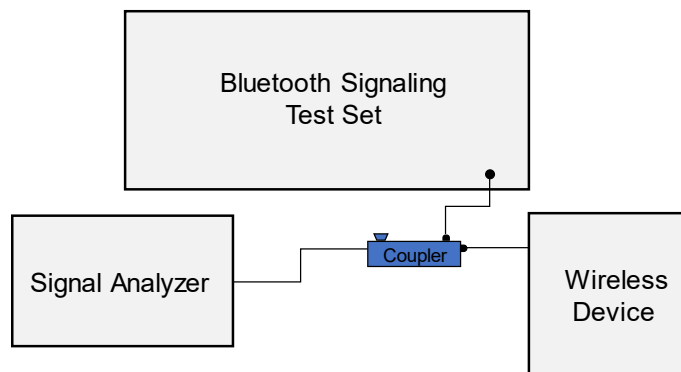


Figure 9-6  
Power Measurement Setup

|                                         |                                  |                               |                                 |
|-----------------------------------------|----------------------------------|-------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      | <b>SAR EVALUATION REPORT</b>     |                               | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19 | DUT Type:<br>Portable Handset | Page 84 of 176                  |

# 10 SYSTEM VERIFICATION

## 10.1 Tissue Verification

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

| Calibrated for Tests Performed on: | Tissue Type: | Tissue Temp During Calibration (°C) | Measured Frequency (MHz) | Measured Conductivity, $\sigma$ (S/m) | Measured Dielectric Constant, $\epsilon$ | TARGET Conductivity, $\sigma$ (S/m) | TARGET Dielectric Constant, $\epsilon$ | % dev $\sigma$ | % dev $\epsilon$ |
|------------------------------------|--------------|-------------------------------------|--------------------------|---------------------------------------|------------------------------------------|-------------------------------------|----------------------------------------|----------------|------------------|
| 2/14/2019                          | 750H         | 20.7                                | 680                      | 0.871                                 | 42.164                                   | 0.888                               | 42.305                                 | -1.91%         | -0.33%           |
|                                    |              |                                     | 695                      | 0.876                                 | 42.098                                   | 0.889                               | 42.227                                 | -1.46%         | -0.31%           |
|                                    |              |                                     | 700                      | 0.881                                 | 42.165                                   | 0.889                               | 42.201                                 | -0.90%         | -0.09%           |
|                                    |              |                                     | 710                      | 0.883                                 | 42.129                                   | 0.890                               | 42.149                                 | -0.79%         | -0.05%           |
|                                    |              |                                     | 740                      | 0.897                                 | 41.952                                   | 0.893                               | 41.994                                 | 0.45%          | -0.10%           |
|                                    |              |                                     | 755                      | 0.899                                 | 41.906                                   | 0.894                               | 41.916                                 | 0.56%          | -0.02%           |
|                                    |              |                                     | 770                      | 0.905                                 | 41.925                                   | 0.895                               | 41.838                                 | 1.12%          | 0.21%            |
|                                    |              |                                     | 785                      | 0.911                                 | 41.869                                   | 0.896                               | 41.760                                 | 1.67%          | 0.26%            |
| 2/11/2019                          | 835H         | 20.3                                | 800                      | 0.917                                 | 41.791                                   | 0.897                               | 41.682                                 | 2.23%          | 0.26%            |
|                                    |              |                                     | 820                      | 0.875                                 | 39.560                                   | 0.899                               | 41.578                                 | -2.67%         | -4.85%           |
|                                    |              |                                     | 835                      | 0.881                                 | 39.523                                   | 0.900                               | 41.500                                 | -2.11%         | -4.76%           |
|                                    |              |                                     | 850                      | 0.887                                 | 39.481                                   | 0.916                               | 41.500                                 | -3.17%         | -4.87%           |
| 3/4/2019                           | 1750H        | 21.5                                | 1710                     | 1.361                                 | 39.054                                   | 1.348                               | 40.142                                 | 0.96%          | -2.71%           |
|                                    |              |                                     | 1750                     | 1.404                                 | 38.865                                   | 1.371                               | 40.079                                 | 2.41%          | -3.03%           |
|                                    |              |                                     | 1790                     | 1.444                                 | 38.659                                   | 1.394                               | 40.016                                 | 3.59%          | -3.39%           |
| 2/19/2019                          | 1900H        | 21.3                                | 1850                     | 1.381                                 | 39.530                                   | 1.400                               | 40.000                                 | -1.36%         | -1.18%           |
|                                    |              |                                     | 1880                     | 1.397                                 | 39.474                                   | 1.400                               | 40.000                                 | -0.21%         | -1.32%           |
|                                    |              |                                     | 1910                     | 1.416                                 | 39.355                                   | 1.400                               | 40.000                                 | 1.14%          | -1.61%           |
| 3/2/2019                           | 2450H        | 21.9                                | 2300                     | 1.747                                 | 41.349                                   | 1.670                               | 39.500                                 | 4.61%          | 4.68%            |
|                                    |              |                                     | 2310                     | 1.760                                 | 41.362                                   | 1.679                               | 39.480                                 | 4.82%          | 4.77%            |
|                                    |              |                                     | 2320                     | 1.766                                 | 41.385                                   | 1.687                               | 39.460                                 | 4.68%          | 4.88%            |
| 2/11/2019                          | 2450H        | 21.1                                | 2400                     | 1.810                                 | 39.292                                   | 1.756                               | 39.289                                 | 3.08%          | 0.01%            |
|                                    |              |                                     | 2450                     | 1.849                                 | 39.238                                   | 1.800                               | 39.200                                 | 2.72%          | 0.10%            |
|                                    |              |                                     | 2500                     | 1.888                                 | 39.156                                   | 1.855                               | 39.136                                 | 1.78%          | 0.05%            |
| 2/13/2019                          | 2450H        | 20.3                                | 2400                     | 1.795                                 | 38.630                                   | 1.756                               | 39.289                                 | 2.22%          | -1.68%           |
|                                    |              |                                     | 2450                     | 1.836                                 | 38.552                                   | 1.800                               | 39.200                                 | 2.00%          | -1.65%           |
|                                    |              |                                     | 2500                     | 1.873                                 | 38.461                                   | 1.855                               | 39.136                                 | 0.97%          | -1.72%           |
|                                    |              |                                     | 2550                     | 1.913                                 | 38.385                                   | 1.909                               | 39.073                                 | 0.21%          | -1.76%           |
|                                    |              |                                     | 2600                     | 1.956                                 | 38.305                                   | 1.964                               | 39.009                                 | -0.41%         | -1.80%           |
| 02/19/2019                         | 5200H-5800H  | 21.1                                | 2650                     | 1.994                                 | 38.218                                   | 2.018                               | 38.945                                 | -1.19%         | -1.87%           |
|                                    |              |                                     | 5240                     | 4.565                                 | 34.926                                   | 4.696                               | 35.940                                 | -2.79%         | -2.82%           |
|                                    |              |                                     | 5260                     | 4.581                                 | 34.840                                   | 4.717                               | 35.917                                 | -2.88%         | -3.00%           |
|                                    |              |                                     | 5300                     | 4.642                                 | 34.821                                   | 4.758                               | 35.871                                 | -2.44%         | -2.93%           |
|                                    |              |                                     | 5320                     | 4.653                                 | 34.779                                   | 4.778                               | 35.849                                 | -2.62%         | -2.98%           |
|                                    |              |                                     | 5520                     | 4.879                                 | 34.437                                   | 4.983                               | 35.620                                 | -2.09%         | -3.32%           |
|                                    |              |                                     | 5540                     | 4.913                                 | 34.368                                   | 5.004                               | 35.597                                 | -1.82%         | -3.45%           |
|                                    |              |                                     | 5600                     | 4.978                                 | 34.279                                   | 5.065                               | 35.529                                 | -1.72%         | -3.52%           |
|                                    |              |                                     | 5620                     | 5.008                                 | 34.245                                   | 5.086                               | 35.506                                 | -1.53%         | -3.55%           |
|                                    |              |                                     | 5745                     | 5.162                                 | 34.044                                   | 5.214                               | 35.363                                 | -1.00%         | -3.73%           |
|                                    |              |                                     | 5765                     | 5.194                                 | 34.018                                   | 5.234                               | 35.340                                 | -0.76%         | -3.74%           |
|                                    |              |                                     | 5785                     | 5.213                                 | 33.965                                   | 5.255                               | 35.317                                 | -0.80%         | -3.83%           |

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset | Page 85 of 176                                                                        |                                 |

**Table 10-2**  
**Measured Body Tissue Properties**

| Calibrated for Tests Performed on: | Tissue Type | Tissue Temp During Calibration (°C) | Measured Frequency (MHz) | Measured Conductivity, $\sigma$ (S/m) | Measured Dielectric Constant, $\epsilon$ | TARGET Conductivity, $\sigma$ (S/m) | TARGET Dielectric Constant, $\epsilon$ | % dev $\sigma$ | % dev $\epsilon$ |
|------------------------------------|-------------|-------------------------------------|--------------------------|---------------------------------------|------------------------------------------|-------------------------------------|----------------------------------------|----------------|------------------|
| 2/18/2019                          | 750B        | 19.9                                | 680                      | 0.938                                 | 53.544                                   | 0.958                               | 55.804                                 | -2.09%         | -4.05%           |
|                                    |             |                                     | 695                      | 0.943                                 | 53.515                                   | 0.959                               | 55.745                                 | -1.67%         | -4.00%           |
|                                    |             |                                     | 700                      | 0.944                                 | 53.509                                   | 0.959                               | 55.726                                 | -1.56%         | -3.98%           |
|                                    |             |                                     | 710                      | 0.948                                 | 53.476                                   | 0.960                               | 55.687                                 | -1.25%         | -3.97%           |
|                                    |             |                                     | 740                      | 0.960                                 | 53.381                                   | 0.963                               | 55.570                                 | -0.31%         | -3.94%           |
|                                    |             |                                     | 755                      | 0.966                                 | 53.353                                   | 0.964                               | 55.512                                 | 0.21%          | -3.89%           |
|                                    |             |                                     | 770                      | 0.972                                 | 53.314                                   | 0.965                               | 55.453                                 | 0.73%          | -3.86%           |
|                                    |             |                                     | 785                      | 0.977                                 | 53.281                                   | 0.966                               | 55.395                                 | 1.14%          | -3.82%           |
| 2/21/2019                          | 750B        | 20.5                                | 800                      | 0.983                                 | 53.240                                   | 0.967                               | 55.336                                 | 1.65%          | -3.79%           |
|                                    |             |                                     | 740                      | 0.942                                 | 53.979                                   | 0.963                               | 55.570                                 | -2.18%         | -2.86%           |
|                                    |             |                                     | 755                      | 0.948                                 | 53.962                                   | 0.964                               | 55.512                                 | -1.66%         | -2.79%           |
|                                    |             |                                     | 770                      | 0.954                                 | 53.940                                   | 0.965                               | 55.453                                 | -1.14%         | -2.73%           |
| 2/25/2019                          | 750B        | 19.8                                | 785                      | 0.960                                 | 53.900                                   | 0.966                               | 55.395                                 | -0.62%         | -2.70%           |
|                                    |             |                                     | 800                      | 0.966                                 | 53.857                                   | 0.967                               | 55.336                                 | -0.10%         | -2.67%           |
|                                    |             |                                     | 680                      | 0.916                                 | 54.005                                   | 0.958                               | 55.804                                 | -4.38%         | -3.22%           |
|                                    |             |                                     | 695                      | 0.924                                 | 53.972                                   | 0.959                               | 55.745                                 | -3.65%         | -3.18%           |
|                                    |             |                                     | 700                      | 0.927                                 | 53.962                                   | 0.959                               | 55.726                                 | -3.34%         | -3.17%           |
| 2/13/2019                          | 835B        | 21.3                                | 710                      | 0.932                                 | 53.942                                   | 0.960                               | 55.687                                 | -2.92%         | -3.13%           |
|                                    |             |                                     | 740                      | 0.943                                 | 53.874                                   | 0.963                               | 55.570                                 | -2.08%         | -3.05%           |
|                                    |             |                                     | 755                      | 0.947                                 | 53.838                                   | 0.964                               | 55.512                                 | -1.76%         | -3.02%           |
|                                    |             |                                     | 820                      | 0.962                                 | 54.334                                   | 0.969                               | 55.258                                 | -0.72%         | -1.67%           |
| 2/18/2019                          | 835B        | 20.0                                | 835                      | 0.978                                 | 54.177                                   | 0.970                               | 55.200                                 | 0.82%          | -1.85%           |
|                                    |             |                                     | 850                      | 0.994                                 | 54.014                                   | 0.988                               | 55.154                                 | 0.61%          | -2.07%           |
|                                    |             |                                     | 820                      | 0.959                                 | 53.939                                   | 0.969                               | 55.258                                 | -1.03%         | -2.39%           |
| 2/20/2019                          | 835B        | 21.2                                | 835                      | 0.975                                 | 53.775                                   | 0.970                               | 55.200                                 | 0.52%          | -2.58%           |
|                                    |             |                                     | 850                      | 0.991                                 | 53.611                                   | 0.988                               | 55.154                                 | 0.30%          | -2.80%           |
|                                    |             |                                     | 820                      | 0.943                                 | 53.083                                   | 0.969                               | 55.258                                 | -2.68%         | -3.94%           |
| 2/20/2019                          | 1750B       | 21.7                                | 835                      | 0.957                                 | 52.932                                   | 0.970                               | 55.200                                 | -1.34%         | -4.11%           |
|                                    |             |                                     | 850                      | 0.971                                 | 52.769                                   | 0.988                               | 55.154                                 | -1.72%         | -4.32%           |
|                                    |             |                                     | 1710                     | 1.410                                 | 52.659                                   | 1.463                               | 53.537                                 | -3.62%         | -1.64%           |
| 2/22/2019                          | 1750B       | 20.8                                | 1750                     | 1.457                                 | 52.518                                   | 1.488                               | 53.432                                 | -2.08%         | -1.71%           |
|                                    |             |                                     | 1790                     | 1.495                                 | 52.430                                   | 1.514                               | 53.326                                 | -1.25%         | -1.68%           |
|                                    |             |                                     | 1710                     | 1.466                                 | 51.675                                   | 1.463                               | 53.537                                 | 0.21%          | -3.48%           |
| 2/24/2019                          | 1750B       | 21.9                                | 1750                     | 1.508                                 | 51.531                                   | 1.488                               | 53.432                                 | 1.34%          | -3.56%           |
|                                    |             |                                     | 1790                     | 1.556                                 | 51.337                                   | 1.514                               | 53.326                                 | 2.77%          | -3.73%           |
|                                    |             |                                     | 1710                     | 1.467                                 | 51.337                                   | 1.463                               | 53.537                                 | 0.27%          | -4.11%           |
| 2/26/2019                          | 1750B       | 22.3                                | 1750                     | 1.510                                 | 51.247                                   | 1.488                               | 53.432                                 | 1.48%          | -4.09%           |
|                                    |             |                                     | 1790                     | 1.550                                 | 51.102                                   | 1.514                               | 53.326                                 | 2.38%          | -4.17%           |
|                                    |             |                                     | 1710                     | 1.463                                 | 51.392                                   | 1.463                               | 53.537                                 | 0.00%          | -4.01%           |
| 3/7/2019                           | 1750B       | 20.9                                | 1750                     | 1.507                                 | 51.260                                   | 1.488                               | 53.432                                 | 1.28%          | -4.06%           |
|                                    |             |                                     | 1790                     | 1.547                                 | 51.084                                   | 1.514                               | 53.326                                 | 2.18%          | -4.20%           |
|                                    |             |                                     | 1710                     | 1.469                                 | 52.268                                   | 1.463                               | 53.537                                 | 0.41%          | -2.37%           |
| 2/11/2019                          | 1900B       | 22.2                                | 1750                     | 1.513                                 | 52.131                                   | 1.488                               | 53.432                                 | 1.68%          | -2.43%           |
|                                    |             |                                     | 1790                     | 1.556                                 | 51.989                                   | 1.514                               | 53.326                                 | 2.77%          | -2.51%           |
|                                    |             |                                     | 1850                     | 1.518                                 | 53.479                                   | 1.520                               | 53.300                                 | -0.13%         | 0.34%            |
|                                    |             |                                     | 1880                     | 1.554                                 | 53.356                                   | 1.520                               | 53.300                                 | 2.24%          | 0.11%            |
| 2/18/2019                          | 1900B       | 21.0                                | 1910                     | 1.591                                 | 53.218                                   | 1.520                               | 53.300                                 | 4.67%          | -0.15%           |
|                                    |             |                                     | 1850                     | 1.523                                 | 53.394                                   | 1.520                               | 53.300                                 | 0.20%          | 0.18%            |
|                                    |             |                                     | 1880                     | 1.557                                 | 53.283                                   | 1.520                               | 53.300                                 | 2.43%          | -0.03%           |
|                                    |             |                                     | 1910                     | 1.592                                 | 53.182                                   | 1.520                               | 53.300                                 | 4.74%          | -0.22%           |
| 2/24/2019                          | 1900B       | 22.0                                | 1850                     | 1.497                                 | 51.158                                   | 1.520                               | 53.300                                 | -1.51%         | -4.02%           |
|                                    |             |                                     | 1880                     | 1.532                                 | 51.019                                   | 1.520                               | 53.300                                 | 0.79%          | -4.28%           |
|                                    |             |                                     | 1910                     | 1.573                                 | 50.936                                   | 1.520                               | 53.300                                 | 3.49%          | -4.44%           |
| 3/2/2019                           | 1900B       | 23.0                                | 1850                     | 1.512                                 | 53.060                                   | 1.520                               | 53.300                                 | -0.53%         | -0.45%           |
|                                    |             |                                     | 1880                     | 1.547                                 | 52.956                                   | 1.520                               | 53.300                                 | 1.78%          | -0.65%           |
|                                    |             |                                     | 1910                     | 1.581                                 | 52.837                                   | 1.520                               | 53.300                                 | 4.01%          | -0.87%           |
| 3/5/2019                           | 1900B       | 20.6                                | 1850                     | 1.508                                 | 51.513                                   | 1.520                               | 53.300                                 | -0.79%         | -3.35%           |
|                                    |             |                                     | 1880                     | 1.542                                 | 51.397                                   | 1.520                               | 53.300                                 | 1.45%          | -3.57%           |
|                                    |             |                                     | 1910                     | 1.576                                 | 51.276                                   | 1.520                               | 53.300                                 | 3.68%          | -3.80%           |

|                                                |                                                                                     |                                      |                                                                                       |                                        |
|------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMF900F                             |  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                             | <b>DUT Type:</b><br>Portable Handset | Page 86 of 176                                                                        |                                        |

**Table 10-3**  
**Measured Body Tissue Properties 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 $\epsilon$ |
|------------------------------------|-------------|-------------------------------------|--------------------------|---------------------------------------|------------------------------------------|-------------------------------------|----------------------------------------|----------------|------------------|
| 3/6/2019                           | 2450B       | 21.2                                | 2300                     | 1.892                                 | 53.529                                   | 1.809                               | 52.900                                 | 4.59%          | 1.19%            |
|                                    |             |                                     | 2310                     | 1.901                                 | 53.517                                   | 1.816                               | 52.887                                 | 4.68%          | 1.19%            |
|                                    |             |                                     | 2450                     | 2.034                                 | 53.310                                   | 1.950                               | 52.700                                 | 4.31%          | 1.16%            |
|                                    |             |                                     | 2500                     | 2.082                                 | 53.242                                   | 2.021                               | 52.636                                 | 3.02%          | 1.15%            |
|                                    |             |                                     | 2550                     | 2.133                                 | 53.153                                   | 2.092                               | 52.573                                 | 1.96%          | 1.10%            |
|                                    |             |                                     | 2600                     | 2.183                                 | 53.072                                   | 2.163                               | 52.509                                 | 0.92%          | 1.07%            |
|                                    |             |                                     | 2650                     | 2.233                                 | 52.979                                   | 2.234                               | 52.445                                 | -0.04%         | 1.02%            |
|                                    |             |                                     | 2700                     | 2.285                                 | 52.885                                   | 2.305                               | 52.382                                 | -0.87%         | 0.96%            |
| 2/11/2019                          | 2450B       | 22.8                                | 2400                     | 1.979                                 | 52.094                                   | 1.902                               | 52.767                                 | 4.05%          | -1.28%           |
|                                    |             |                                     | 2450                     | 2.037                                 | 51.969                                   | 1.950                               | 52.700                                 | 4.46%          | -1.39%           |
|                                    |             |                                     | 2500                     | 2.094                                 | 51.812                                   | 2.021                               | 52.636                                 | 3.61%          | -1.57%           |
| 2/13/2019                          | 2450B       | 22.2                                | 2400                     | 1.973                                 | 52.148                                   | 1.902                               | 52.767                                 | 3.73%          | -1.17%           |
|                                    |             |                                     | 2450                     | 2.034                                 | 52.017                                   | 1.950                               | 52.700                                 | 4.31%          | -1.30%           |
|                                    |             |                                     | 2500                     | 2.093                                 | 51.855                                   | 2.021                               | 52.636                                 | 3.56%          | -1.48%           |
| 2/18/2019                          | 2450B       | 22.8                                | 2400                     | 1.980                                 | 52.672                                   | 1.902                               | 52.767                                 | 4.10%          | -0.18%           |
|                                    |             |                                     | 2450                     | 2.035                                 | 52.525                                   | 1.950                               | 52.700                                 | 4.36%          | -0.33%           |
|                                    |             |                                     | 2500                     | 2.091                                 | 52.368                                   | 2.021                               | 52.636                                 | 3.46%          | -0.51%           |
|                                    |             |                                     | 2550                     | 2.154                                 | 52.224                                   | 2.092                               | 52.573                                 | 2.96%          | -0.66%           |
|                                    |             |                                     | 2600                     | 2.216                                 | 52.048                                   | 2.163                               | 52.509                                 | 2.45%          | -0.88%           |
|                                    |             |                                     | 2650                     | 2.276                                 | 51.867                                   | 2.234                               | 52.445                                 | 1.88%          | -1.10%           |
|                                    |             |                                     | 2700                     | 2.340                                 | 51.720                                   | 2.305                               | 52.382                                 | 1.52%          | -1.26%           |
| 3/1/2019                           | 2450B       | 20.1                                | 2450                     | 2.030                                 | 52.040                                   | 1.950                               | 52.700                                 | 4.10%          | -1.25%           |
|                                    |             |                                     | 2500                     | 2.072                                 | 51.998                                   | 2.021                               | 52.636                                 | 2.52%          | -1.21%           |
|                                    |             |                                     | 2550                     | 2.123                                 | 51.891                                   | 2.092                               | 52.573                                 | 1.48%          | -1.30%           |
| 3/4/2019                           | 2450B       | 21.0                                | 2450                     | 2.037                                 | 54.469                                   | 1.950                               | 52.700                                 | 4.46%          | 3.36%            |
|                                    |             |                                     | 2500                     | 2.085                                 | 54.404                                   | 2.021                               | 52.636                                 | 3.17%          | 3.36%            |
|                                    |             |                                     | 2550                     | 2.135                                 | 54.327                                   | 2.092                               | 52.573                                 | 2.06%          | 3.34%            |
|                                    |             |                                     | 2600                     | 2.187                                 | 54.255                                   | 2.163                               | 52.509                                 | 1.11%          | 3.33%            |
|                                    |             |                                     | 2650                     | 2.236                                 | 54.167                                   | 2.234                               | 52.445                                 | 0.09%          | 3.28%            |
|                                    |             |                                     | 2700                     | 2.292                                 | 54.076                                   | 2.305                               | 52.382                                 | -0.56%         | 3.23%            |
| 3/10/2019                          | 2450B       | 23.6                                | 2450                     | 2.041                                 | 50.934                                   | 1.950                               | 52.700                                 | 4.67%          | -3.35%           |
|                                    |             |                                     | 2500                     | 2.098                                 | 50.788                                   | 2.021                               | 52.636                                 | 3.81%          | -3.51%           |
|                                    |             |                                     | 2550                     | 2.158                                 | 50.635                                   | 2.092                               | 52.573                                 | 3.15%          | -3.69%           |
|                                    |             |                                     | 2600                     | 2.217                                 | 50.492                                   | 2.163                               | 52.509                                 | 2.50%          | -3.84%           |
| 02/13/2019                         | 5200B-5800B | 20.1                                | 5240                     | 5.456                                 | 47.804                                   | 5.346                               | 48.960                                 | 2.06%          | -2.36%           |
|                                    |             |                                     | 5260                     | 5.479                                 | 47.752                                   | 5.369                               | 48.933                                 | 2.05%          | -2.41%           |
|                                    |             |                                     | 5280                     | 5.503                                 | 47.692                                   | 5.393                               | 48.906                                 | 2.04%          | -2.48%           |
|                                    |             |                                     | 5300                     | 5.531                                 | 47.697                                   | 5.416                               | 48.879                                 | 2.12%          | -2.42%           |
|                                    |             |                                     | 5320                     | 5.557                                 | 47.657                                   | 5.439                               | 48.851                                 | 2.17%          | -2.44%           |
|                                    |             |                                     | 5500                     | 5.810                                 | 47.291                                   | 5.650                               | 48.607                                 | 2.83%          | -2.71%           |
|                                    |             |                                     | 5520                     | 5.842                                 | 47.228                                   | 5.673                               | 48.580                                 | 2.98%          | -2.78%           |
|                                    |             |                                     | 5540                     | 5.879                                 | 47.211                                   | 5.696                               | 48.553                                 | 3.21%          | -2.76%           |
|                                    |             |                                     | 5560                     | 5.916                                 | 47.158                                   | 5.720                               | 48.526                                 | 3.43%          | -2.82%           |
|                                    |             |                                     | 5600                     | 5.970                                 | 47.126                                   | 5.766                               | 48.471                                 | 3.54%          | -2.77%           |
|                                    |             |                                     | 5620                     | 5.990                                 | 47.047                                   | 5.790                               | 48.444                                 | 3.45%          | -2.88%           |
|                                    |             |                                     | 5700                     | 6.123                                 | 46.927                                   | 5.883                               | 48.336                                 | 4.08%          | -2.92%           |
|                                    |             |                                     | 5745                     | 6.181                                 | 46.818                                   | 5.936                               | 48.275                                 | 4.13%          | -3.02%           |
|                                    |             |                                     | 5765                     | 6.211                                 | 46.779                                   | 5.959                               | 48.248                                 | 4.23%          | -3.04%           |
|                                    |             |                                     | 5785                     | 6.262                                 | 46.757                                   | 5.982                               | 48.220                                 | 4.68%          | -3.03%           |

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: A3LSMF900F                             |  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                             | <b>DUT Type:</b><br>Portable Handset | Page 87 of 176                                                                        |                                        |

## 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 E.

**Table 10-4**  
**System Verification Results – 1g Head**

| System Verification<br>TARGET & MEASURED |                        |             |            |                |                  |                 |           |          |                                   |                                     |                                         |                             |
|------------------------------------------|------------------------|-------------|------------|----------------|------------------|-----------------|-----------|----------|-----------------------------------|-------------------------------------|-----------------------------------------|-----------------------------|
| SAR System #                             | Tissue Frequency (MHz) | Tissue Type | Date       | Amb. Temp (°C) | Liquid Temp (°C) | Input Power (W) | Source SN | Probe SN | Measured SAR <sub>1g</sub> (W/kg) | 1 W Target SAR <sub>1g</sub> (W/kg) | 1 W Normalized SAR <sub>1g</sub> (W/kg) | Deviation <sub>1g</sub> (%) |
| G                                        | 750                    | HEAD        | 02/14/2019 | 22.9           | 20.7             | 0.200           | 1054      | 7410     | 1.710                             | 8.370                               | 8.550                                   | 2.15%                       |
| G                                        | 835                    | HEAD        | 02/11/2019 | 21.1           | 20.3             | 0.200           | 4d133     | 7410     | 1.910                             | 9.430                               | 9.550                                   | 1.27%                       |
| D                                        | 1750                   | HEAD        | 03/04/2019 | 22.0           | 21.5             | 0.100           | 1150      | 7357     | 3.590                             | 36.500                              | 35.900                                  | -1.64%                      |
| G                                        | 1900                   | HEAD        | 02/19/2019 | 23.2           | 21.3             | 0.100           | 5d149     | 7410     | 3.800                             | 39.300                              | 38.000                                  | -3.31%                      |
| E                                        | 2300                   | HEAD        | 03/02/2019 | 20.5           | 20.3             | 0.100           | 1064      | 3589     | 4.570                             | 47.600                              | 45.700                                  | -3.99%                      |
| H                                        | 2450                   | HEAD        | 02/11/2019 | 20.9           | 21.1             | 0.100           | 797       | 7409     | 5.470                             | 52.700                              | 54.700                                  | 3.80%                       |
| H                                        | 2450                   | HEAD        | 02/13/2019 | 20.9           | 20.3             | 0.100           | 797       | 7409     | 5.510                             | 52.700                              | 55.100                                  | 4.55%                       |
| H                                        | 2600                   | HEAD        | 02/13/2019 | 20.9           | 20.3             | 0.100           | 1071      | 7409     | 5.480                             | 56.300                              | 54.800                                  | -2.66%                      |
| H                                        | 5250                   | HEAD        | 02/19/2019 | 21.6           | 21.1             | 0.050           | 1237      | 7409     | 3.840                             | 81.300                              | 76.800                                  | -5.54%                      |
| H                                        | 5600                   | HEAD        | 02/19/2019 | 21.6           | 21.1             | 0.050           | 1237      | 7409     | 4.170                             | 85.700                              | 83.400                                  | -2.68%                      |
| H                                        | 5750                   | HEAD        | 02/19/2019 | 21.6           | 21.1             | 0.050           | 1237      | 7409     | 3.750                             | 80.600                              | 75.000                                  | -6.95%                      |

|                                         |                                                                                                                                                                                                        |                               |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  <b>SAR EVALUATION REPORT</b>  |                               | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                                                                                                                                       | DUT Type:<br>Portable Handset | Page 88 of 176                  |

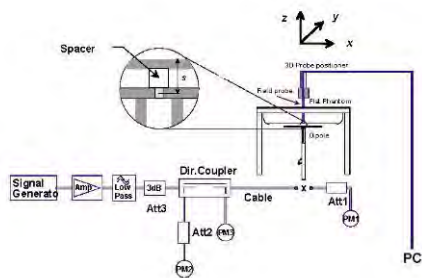
**Table 10-5**  
**System Verification Results – 1g Body**

| 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                    | BODY        | 02/18/2019 | 21.6           | 19.9             | 0.200           | 1003      | 3589     | 1.720                             | 8.580                               | 8.600                                   | 0.23%                       |
| E                                        | 750                    | BODY        | 02/21/2019 | 21.2           | 20.5             | 0.200           | 1003      | 3589     | 1.810                             | 8.580                               | 9.050                                   | 5.48%                       |
| E                                        | 750                    | BODY        | 02/25/2019 | 21.8           | 19.8             | 0.200           | 1003      | 3589     | 1.730                             | 8.580                               | 8.650                                   | 0.82%                       |
| D                                        | 835                    | BODY        | 02/13/2019 | 21.9           | 21.3             | 0.200           | 4d047     | 7357     | 2.050                             | 9.710                               | 10.250                                  | 5.56%                       |
| D                                        | 835                    | BODY        | 02/18/2019 | 21.5           | 20.0             | 0.200           | 4d047     | 7357     | 2.050                             | 9.710                               | 10.250                                  | 5.56%                       |
| D                                        | 835                    | BODY        | 02/20/2019 | 21.7           | 21.2             | 0.200           | 4d047     | 7357     | 1.960                             | 9.710                               | 9.800                                   | 0.93%                       |
| G                                        | 1750                   | BODY        | 02/20/2019 | 22.6           | 21.8             | 0.100           | 1148      | 7410     | 3.780                             | 37.000                              | 37.800                                  | 2.16%                       |
| G                                        | 1750                   | BODY        | 02/22/2019 | 23.2           | 20.8             | 0.100           | 1150      | 7410     | 3.820                             | 36.600                              | 38.200                                  | 4.37%                       |
| G                                        | 1750                   | BODY        | 02/24/2019 | 21.3           | 21.3             | 0.100           | 1150      | 7410     | 3.800                             | 36.600                              | 38.000                                  | 3.83%                       |
| G                                        | 1750                   | BODY        | 03/07/2019 | 22.6           | 20.9             | 0.100           | 1148      | 7410     | 3.830                             | 37.000                              | 38.300                                  | 3.51%                       |
| J                                        | 1900                   | BODY        | 02/11/2019 | 21.4           | 20.8             | 0.100           | 5d149     | 7488     | 4.180                             | 39.400                              | 41.800                                  | 6.09%                       |
| J                                        | 1900                   | BODY        | 02/18/2019 | 21.0           | 21.0             | 0.100           | 5d080     | 7488     | 4.190                             | 39.200                              | 41.900                                  | 6.89%                       |
| J                                        | 1900                   | BODY        | 03/02/2019 | 21.0           | 21.2             | 0.100           | 5d080     | 7488     | 4.080                             | 39.200                              | 40.800                                  | 4.08%                       |
| J                                        | 1900                   | BODY        | 03/05/2019 | 21.7           | 20.6             | 0.100           | 5d149     | 7488     | 4.210                             | 39.400                              | 42.100                                  | 6.85%                       |
| L                                        | 2300                   | BODY        | 03/06/2019 | 22.6           | 21.2             | 0.100           | 1064      | 7308     | 4.430                             | 46.500                              | 44.300                                  | -4.73%                      |
| K                                        | 2450                   | BODY        | 02/11/2019 | 21.9           | 21.1             | 0.100           | 981       | 3319     | 5.080                             | 50.900                              | 50.800                                  | -0.20%                      |
| K                                        | 2450                   | BODY        | 02/13/2019 | 22.2           | 21.2             | 0.100           | 981       | 3319     | 5.110                             | 50.900                              | 51.100                                  | 0.39%                       |
| K                                        | 2450                   | BODY        | 02/18/2019 | 21.9           | 22.8             | 0.100           | 981       | 3319     | 5.100                             | 50.900                              | 51.000                                  | 0.20%                       |
| L                                        | 2450                   | BODY        | 03/01/2019 | 22.8           | 19.8             | 0.100           | 797       | 7308     | 4.840                             | 51.100                              | 48.400                                  | -5.28%                      |
| L                                        | 2450                   | BODY        | 03/04/2019 | 21.9           | 21.0             | 0.100           | 981       | 7308     | 4.960                             | 50.900                              | 49.600                                  | -2.55%                      |
| K                                        | 2600                   | BODY        | 02/18/2019 | 21.9           | 22.8             | 0.100           | 1004      | 3319     | 5.510                             | 54.800                              | 55.100                                  | 0.55%                       |
| L                                        | 2600                   | BODY        | 03/04/2019 | 21.9           | 21.0             | 0.100           | 1004      | 7308     | 5.170                             | 54.800                              | 51.700                                  | -5.66%                      |
| L                                        | 5250                   | BODY        | 02/13/2019 | 22.6           | 20.1             | 0.050           | 1191      | 7308     | 3.870                             | 77.000                              | 77.400                                  | 0.52%                       |
| L                                        | 5600                   | BODY        | 02/13/2019 | 22.6           | 20.1             | 0.050           | 1191      | 7308     | 3.970                             | 79.200                              | 79.400                                  | 0.25%                       |
| L                                        | 5750                   | BODY        | 02/13/2019 | 22.6           | 20.1             | 0.050           | 1191      | 7308     | 3.500                             | 76.100                              | 70.000                                  | -8.02%                      |

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 89 of 176                  |

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

| System Verification<br>TARGET & MEASURED |                        |             |            |                |                  |                 |           |          |                                    |                                      |                                          |                              |
|------------------------------------------|------------------------|-------------|------------|----------------|------------------|-----------------|-----------|----------|------------------------------------|--------------------------------------|------------------------------------------|------------------------------|
| SAR System #                             | Tissue Frequency (MHz) | Tissue Type | Date       | Amb. Temp (°C) | Liquid Temp (°C) | Input Power (W) | Source SN | Probe SN | Measured SAR <sub>10g</sub> (W/kg) | 1 W Target SAR <sub>10g</sub> (W/kg) | 1 W Normalized SAR <sub>10g</sub> (W/kg) | Deviation <sub>10g</sub> (%) |
| E                                        | 750                    | BODY        | 02/21/2019 | 21.2           | 20.5             | 0.200           | 1003      | 3589     | 1.190                              | 5.710                                | 5.950                                    | 4.20%                        |
| E                                        | 750                    | BODY        | 02/25/2019 | 21.8           | 19.8             | 0.200           | 1003      | 3589     | 1.140                              | 5.710                                | 5.700                                    | -0.18%                       |
| D                                        | 835                    | BODY        | 02/18/2019 | 21.5           | 20.0             | 0.200           | 4d047     | 7357     | 1.350                              | 6.360                                | 6.750                                    | 6.13%                        |
| D                                        | 835                    | BODY        | 02/20/2019 | 21.7           | 21.2             | 0.200           | 4d047     | 7357     | 1.290                              | 6.360                                | 6.450                                    | 1.42%                        |
| G                                        | 1750                   | BODY        | 02/22/2019 | 23.2           | 20.8             | 0.100           | 1150      | 7410     | 2.010                              | 19.400                               | 20.100                                   | 3.61%                        |
| G                                        | 1750                   | BODY        | 02/24/2019 | 21.3           | 21.3             | 0.100           | 1150      | 7410     | 2.000                              | 19.400                               | 20.000                                   | 3.09%                        |
| G                                        | 1750                   | BODY        | 02/26/2019 | 22.4           | 21.3             | 0.100           | 1150      | 7410     | 2.080                              | 19.400                               | 20.800                                   | 7.22%                        |
| G                                        | 1750                   | BODY        | 03/07/2019 | 22.6           | 20.9             | 0.100           | 1148      | 7410     | 2.020                              | 19.800                               | 20.200                                   | 2.02%                        |
| J                                        | 1900                   | BODY        | 02/18/2019 | 21.0           | 21.0             | 0.100           | 5d080     | 7488     | 2.150                              | 20.600                               | 21.500                                   | 4.37%                        |
| J                                        | 1900                   | BODY        | 02/24/2019 | 21.7           | 21.5             | 0.100           | 5d149     | 7488     | 2.120                              | 20.700                               | 21.200                                   | 2.42%                        |
| J                                        | 1900                   | BODY        | 03/05/2019 | 21.7           | 20.6             | 0.100           | 5d149     | 7488     | 2.150                              | 20.700                               | 21.500                                   | 3.86%                        |
| L                                        | 2300                   | BODY        | 03/06/2019 | 22.6           | 21.2             | 0.100           | 1064      | 7308     | 2.120                              | 22.600                               | 21.200                                   | -6.19%                       |
| K                                        | 2450                   | BODY        | 02/13/2019 | 22.2           | 21.2             | 0.100           | 981       | 3319     | 2.350                              | 24.200                               | 23.500                                   | -2.89%                       |
| K                                        | 2450                   | BODY        | 02/18/2019 | 21.9           | 22.8             | 0.100           | 981       | 3319     | 2.340                              | 24.200                               | 23.400                                   | -3.31%                       |
| L                                        | 2450                   | BODY        | 03/04/2019 | 21.9           | 21.0             | 0.100           | 981       | 7308     | 2.280                              | 24.200                               | 22.800                                   | -5.79%                       |
| L                                        | 2450                   | BODY        | 03/06/2019 | 22.6           | 21.2             | 0.100           | 719       | 7308     | 2.200                              | 23.700                               | 22.000                                   | -7.17%                       |
| K                                        | 2450                   | BODY        | 03/10/2019 | 21.9           | 23.6             | 0.100           | 719       | 7417     | 2.210                              | 23.700                               | 22.100                                   | -6.75%                       |
| K                                        | 2600                   | BODY        | 02/18/2019 | 21.9           | 22.8             | 0.100           | 1004      | 3319     | 2.430                              | 24.700                               | 24.300                                   | -1.62%                       |
| L                                        | 2600                   | BODY        | 03/04/2019 | 21.9           | 21.0             | 0.100           | 1004      | 7308     | 2.310                              | 24.700                               | 23.100                                   | -6.48%                       |
| L                                        | 2600                   | BODY        | 03/06/2019 | 22.6           | 21.2             | 0.100           | 1064      | 7308     | 2.470                              | 24.400                               | 24.700                                   | 1.23%                        |
| K                                        | 2600                   | BODY        | 03/10/2019 | 21.9           | 23.6             | 0.100           | 1071      | 7417     | 2.290                              | 24.500                               | 22.900                                   | -6.53%                       |
| L                                        | 5250                   | BODY        | 02/13/2019 | 22.6           | 20.1             | 0.050           | 1191      | 7308     | 1.060                              | 21.600                               | 21.200                                   | -1.85%                       |
| L                                        | 5600                   | BODY        | 02/13/2019 | 22.6           | 20.1             | 0.050           | 1191      | 7308     | 1.090                              | 22.200                               | 21.800                                   | -1.80%                       |
| L                                        | 5750                   | BODY        | 02/13/2019 | 22.6           | 20.1             | 0.050           | 1191      | 7308     | 0.981                              | 21.200                               | 19.620                                   | -7.45%                       |



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



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

|                                                |                                                                                                                                   |                                      |                                                                                       |                                        |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMF900F                             |  <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                                                                           | <b>DUT Type:</b><br>Portable Handset | Page 90 of 176                                                                        |                                        |

# 11 SAR DATA SUMMARY

## 11.1 Standalone Head SAR Data

**Table 11-1**  
**GSM 850 Handset Head SAR**

| MEASUREMENT RESULTS                                                                               |     |           |         |                             |                       |                  |       |                                                 |                      |                 |            |          |                |                   |        |
|---------------------------------------------------------------------------------------------------|-----|-----------|---------|-----------------------------|-----------------------|------------------|-------|-------------------------------------------------|----------------------|-----------------|------------|----------|----------------|-------------------|--------|
| FREQUENCY                                                                                         |     | Mode/Band | 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     | 34.0                        | 33.06                 | -0.02            | Right | Cheek                                           | 1390M                | 1               | 1:8.3      | 0.297    | 1.242          | 0.369             | A1     |
| 836.60                                                                                            | 190 | GSM 850   | GSM     | 34.0                        | 33.06                 | 0.16             | Right | Tilt                                            | 1390M                | 1               | 1:8.3      | 0.142    | 1.242          | 0.176             |        |
| 836.60                                                                                            | 190 | GSM 850   | GSM     | 34.0                        | 33.06                 | 0.13             | Left  | Cheek                                           | 1390M                | 1               | 1:8.3      | 0.158    | 1.242          | 0.196             |        |
| 836.60                                                                                            | 190 | GSM 850   | GSM     | 34.0                        | 33.06                 | 0.13             | Left  | Tilt                                            | 1390M                | 1               | 1:8.3      | 0.111    | 1.242          | 0.138             |        |
| 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**  
**GSM 1900 Handset Head SAR**

| MEASUREMENT RESULTS                                                                               |     |           |         |                             |                       |                  |       |                                                 |                      |                 |            |          |                |                   |        |
|---------------------------------------------------------------------------------------------------|-----|-----------|---------|-----------------------------|-----------------------|------------------|-------|-------------------------------------------------|----------------------|-----------------|------------|----------|----------------|-------------------|--------|
| FREQUENCY                                                                                         |     | Mode/Band | 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     | 31.5                        | 29.82                 | 0.12             | Right | Cheek                                           | 1345M                | 1               | 1:8.3      | 0.044    | 1.472          | 0.065             |        |
| 1880.00                                                                                           | 661 | GSM 1900  | GSM     | 31.5                        | 29.82                 | 0.04             | Right | Tilt                                            | 1345M                | 1               | 1:8.3      | 0.054    | 1.472          | 0.079             |        |
| 1880.00                                                                                           | 661 | GSM 1900  | GSM     | 31.5                        | 29.82                 | -0.02            | Left  | Cheek                                           | 1345M                | 1               | 1:8.3      | 0.075    | 1.472          | 0.110             | A2     |
| 1880.00                                                                                           | 661 | GSM 1900  | GSM     | 31.5                        | 29.82                 | 0.10             | Left  | Tilt                                            | 1345M                | 1               | 1:8.3      | 0.044    | 1.472          | 0.065             |        |
| 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 11-3**  
**UMTS 850 Handset Head SAR**

| MEASUREMENT RESULTS                                                                               |      |           |         |                             |                       |           |                  |       |                                                 |                      |                 |            |          |                |                   |        |
|---------------------------------------------------------------------------------------------------|------|-----------|---------|-----------------------------|-----------------------|-----------|------------------|-------|-------------------------------------------------|----------------------|-----------------|------------|----------|----------------|-------------------|--------|
| FREQUENCY                                                                                         |      | Mode/Band | Service | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Ant State | 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                                                                                            | 4183 | UMTS 850  | RMC     | 25.5                        | 24.19                 | 0         | -0.01            | Right | Cheek                                           | 1390M                | N/A             | 1:1        | 0.319    | 1.352          | 0.431             | A3     |
| 836.60                                                                                            | 4183 | UMTS 850  | RMC     | 25.5                        | 24.19                 | 0         | 0.04             | Right | Tilt                                            | 1390M                | N/A             | 1:1        | 0.163    | 1.352          | 0.220             |        |
| 836.60                                                                                            | 4183 | UMTS 850  | RMC     | 25.5                        | 24.19                 | 0         | -0.07            | Left  | Cheek                                           | 1390M                | N/A             | 1:1        | 0.233    | 1.352          | 0.315             |        |
| 836.60                                                                                            | 4183 | UMTS 850  | RMC     | 25.5                        | 24.19                 | 0         | -0.01            | Left  | Tilt                                            | 1390M                | N/A             | 1:1        | 0.135    | 1.352          | 0.183             |        |
| 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: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 91 of 176                  |

**Table 11-4**  
**UMTS 1750 Handset Head SAR**

| MEASUREMENT RESULTS                                                                               |      |           |         |                             |                       |                  |                                                 |               |                      |            |          |                |                   |        |
|---------------------------------------------------------------------------------------------------|------|-----------|---------|-----------------------------|-----------------------|------------------|-------------------------------------------------|---------------|----------------------|------------|----------|----------------|-------------------|--------|
| FREQUENCY                                                                                         |      | Mode/Band | 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                        | 24.17                 | 0.13             | Right                                           | Cheek         | 1404M                | 1:1        | 0.103    | 1.358          | 0.140             |        |
| 1732.40                                                                                           | 1412 | UMTS 1750 | RMC     | 25.5                        | 24.17                 | 0.12             | Right                                           | Tilt          | 1404M                | 1:1        | 0.097    | 1.358          | 0.132             |        |
| 1732.40                                                                                           | 1412 | UMTS 1750 | RMC     | 25.5                        | 24.17                 | 0.09             | Left                                            | Cheek         | 1404M                | 1:1        | 0.166    | 1.358          | 0.225             | A4     |
| 1732.40                                                                                           | 1412 | UMTS 1750 | RMC     | 25.5                        | 24.17                 | 0.02             | Left                                            | Tilt          | 1404M                | 1:1        | 0.091    | 1.358          | 0.124             |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |      |           |         |                             |                       |                  | Head<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |               |                      |            |          |                |                   |        |

**Table 11-5**  
**UMTS 1900 Handset Head SAR**

| MEASUREMENT RESULTS                                                                               |      |           |         |                             |                       |                  |                                                 |               |                      |            |          |                |                   |        |
|---------------------------------------------------------------------------------------------------|------|-----------|---------|-----------------------------|-----------------------|------------------|-------------------------------------------------|---------------|----------------------|------------|----------|----------------|-------------------|--------|
| FREQUENCY                                                                                         |      | Mode/Band | 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                        | 24.32                 | 0.02             | Right                                           | Cheek         | 1345M                | 1:1        | 0.137    | 1.312          | 0.180             |        |
| 1880.00                                                                                           | 9400 | UMTS 1900 | RMC     | 25.5                        | 24.32                 | 0.06             | Right                                           | Tilt          | 1345M                | 1:1        | 0.123    | 1.312          | 0.161             |        |
| 1880.00                                                                                           | 9400 | UMTS 1900 | RMC     | 25.5                        | 24.32                 | -0.12            | Left                                            | Cheek         | 1345M                | 1:1        | 0.175    | 1.312          | 0.230             | A5     |
| 1880.00                                                                                           | 9400 | UMTS 1900 | RMC     | 25.5                        | 24.32                 | 0.17             | Left                                            | Tilt          | 1345M                | 1:1        | 0.099    | 1.312          | 0.130             |        |
| 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**  
**LTE Band 71 Handset Head SAR**

| MEASUREMENT RESULTS                                                                               |        |      |                 |                             |                       |           |                  |          |      |                                                 |            |         |           |                      |            |          |                |                   |       |    |
|---------------------------------------------------------------------------------------------------|--------|------|-----------------|-----------------------------|-----------------------|-----------|------------------|----------|------|-------------------------------------------------|------------|---------|-----------|----------------------|------------|----------|----------------|-------------------|-------|----|
| FREQUENCY                                                                                         |        | Mode | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Ant State | 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)            |       |    |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 25.5                  | 24.62     | 40               | 0.13     | 0    | Right                                           | Cheek      | QPSK    | 1         | 0                    | 1345M      | 1:1      | 0.165          | 1.225             | 0.202 | A6 |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 24.5                  | 23.75     | 40               | 0.03     | 1    | Right                                           | Cheek      | QPSK    | 50        | 0                    | 1345M      | 1:1      | 0.141          | 1.189             | 0.168 |    |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 25.5                  | 24.62     | 40               | -0.02    | 0    | Right                                           | Tilt       | QPSK    | 1         | 0                    | 1345M      | 1:1      | 0.086          | 1.225             | 0.105 |    |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 24.5                  | 23.75     | 40               | 0.01     | 1    | Right                                           | Tilt       | QPSK    | 50        | 0                    | 1345M      | 1:1      | 0.073          | 1.189             | 0.087 |    |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 25.5                  | 24.62     | 40               | -0.03    | 0    | Left                                            | Cheek      | QPSK    | 1         | 0                    | 1345M      | 1:1      | 0.127          | 1.225             | 0.156 |    |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 24.5                  | 23.75     | 40               | 0.13     | 1    | Left                                            | Cheek      | QPSK    | 50        | 0                    | 1345M      | 1:1      | 0.111          | 1.189             | 0.132 |    |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 25.5                  | 24.62     | 40               | -0.04    | 0    | Left                                            | Tilt       | QPSK    | 1         | 0                    | 1345M      | 1:1      | 0.069          | 1.225             | 0.085 |    |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 24.5                  | 23.75     | 40               | 0.01     | 1    | Left                                            | Tilt       | QPSK    | 50        | 0                    | 1345M      | 1:1      | 0.069          | 1.189             | 0.082 |    |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |        |      |                 |                             |                       |           |                  |          |      | Head<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |            |         |           |                      |            |          |                |                   |       |    |

|                                         |                                                                                     |                               |                                                                                       |                                        |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMF900F                      |  | <b>SAR EVALUATION REPORT</b>  |  | <b>Approved by:</b><br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 92 of 176                         |

**Table 11-7**  
**LTE Band 12 Handset Head SAR**

| MEASUREMENT RESULTS                                                                               |       |     |             |                 |                             |                       |           |                  |          |       |                                                 |            |         |           |                      |            |          |                |                   |        |
|---------------------------------------------------------------------------------------------------|-------|-----|-------------|-----------------|-----------------------------|-----------------------|-----------|------------------|----------|-------|-------------------------------------------------|------------|---------|-----------|----------------------|------------|----------|----------------|-------------------|--------|
| FREQUENCY                                                                                         |       |     | Mode        | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Ant State | 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 # |
|                                                                                                   |       |     |             |                 |                             |                       |           |                  |          |       |                                                 |            |         |           |                      |            | (W/kg)   |                | (W/kg)            |        |
| 707.50                                                                                            | 23095 | Mid | LTE Band 12 | 10              | 25.5                        | 24.26                 | 33        | -0.03            | 0        | Right | Cheek                                           | QPSK       | 1       | 25        | 1345M                | 1:1        | 0.190    | 1.330          | 0.253             | A7     |
| 707.50                                                                                            | 23095 | Mid | LTE Band 12 | 10              | 24.5                        | 23.48                 | 33        | -0.07            | 1        | Right | Cheek                                           | QPSK       | 25      | 0         | 1345M                | 1:1        | 0.160    | 1.265          | 0.202             |        |
| 707.50                                                                                            | 23095 | Mid | LTE Band 12 | 10              | 25.5                        | 24.26                 | 33        | 0.03             | 0        | Right | Tilt                                            | QPSK       | 1       | 25        | 1345M                | 1:1        | 0.121    | 1.330          | 0.161             |        |
| 707.50                                                                                            | 23095 | Mid | LTE Band 12 | 10              | 24.5                        | 23.48                 | 33        | 0.05             | 1        | Right | Tilt                                            | QPSK       | 25      | 0         | 1345M                | 1:1        | 0.107    | 1.265          | 0.135             |        |
| 707.50                                                                                            | 23095 | Mid | LTE Band 12 | 10              | 25.5                        | 24.26                 | 33        | 0.01             | 0        | Left  | Cheek                                           | QPSK       | 1       | 25        | 1345M                | 1:1        | 0.153    | 1.330          | 0.203             |        |
| 707.50                                                                                            | 23095 | Mid | LTE Band 12 | 10              | 24.5                        | 23.48                 | 33        | 0.08             | 1        | Left  | Cheek                                           | QPSK       | 25      | 0         | 1345M                | 1:1        | 0.134    | 1.265          | 0.170             |        |
| 707.50                                                                                            | 23095 | Mid | LTE Band 12 | 10              | 25.5                        | 24.26                 | 33        | 0.03             | 0        | Left  | Tilt                                            | QPSK       | 1       | 25        | 1345M                | 1:1        | 0.106    | 1.330          | 0.141             |        |
| 707.50                                                                                            | 23095 | Mid | LTE Band 12 | 10              | 24.5                        | 23.48                 | 33        | 0.04             | 1        | Left  | Tilt                                            | QPSK       | 25      | 0         | 1345M                | 1:1        | 0.092    | 1.265          | 0.116             |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |       |     |             |                 |                             |                       |           |                  |          |       | Head<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |            |         |           |                      |            |          |                |                   |        |

**Table 11-8**  
**LTE Band 13 Handset Head SAR**

| MEASUREMENT RESULTS                                                                               |       |      |                 |                             |                       |           |                  |          |      |                                                 |            |         |           |                      |            |          |                |                   |        |    |
|---------------------------------------------------------------------------------------------------|-------|------|-----------------|-----------------------------|-----------------------|-----------|------------------|----------|------|-------------------------------------------------|------------|---------|-----------|----------------------|------------|----------|----------------|-------------------|--------|----|
| FREQUENCY                                                                                         |       | Mode | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Ant State | 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)            |        |    |
| 782.00                                                                                            | 23230 | Mid  | LTE Band 13     | 10                          | 25.5                  | 24.02     | 32               | 0.13     | 0    | Right                                           | Cheek      | QPSK    | 1         | 49                   | 1345M      | 1:1      | 0.175          | 1.406             | 0.246  | A8 |
| 782.00                                                                                            | 23230 | Mid  | LTE Band 13     | 10                          | 24.5                  | 23.11     | 32               | 0.07     | 1    | Right                                           | Cheek      | QPSK    | 25        | 0                    | 1345M      | 1:1      | 0.169          | 1.377             | 0.233  |    |
| 782.00                                                                                            | 23230 | Mid  | LTE Band 13     | 10                          | 25.5                  | 24.02     | 32               | -0.10    | 0    | Right                                           | Tilt       | QPSK    | 1         | 49                   | 1345M      | 1:1      | 0.123          | 1.406             | 0.173  |    |
| 782.00                                                                                            | 23230 | Mid  | LTE Band 13     | 10                          | 24.5                  | 23.11     | 32               | 0.09     | 1    | Right                                           | Tilt       | QPSK    | 25        | 0                    | 1345M      | 1:1      | 0.098          | 1.377             | 0.135  |    |
| 782.00                                                                                            | 23230 | Mid  | LTE Band 13     | 10                          | 25.5                  | 24.02     | 32               | -0.03    | 0    | Left                                            | Cheek      | QPSK    | 1         | 49                   | 1345M      | 1:1      | 0.146          | 1.406             | 0.205  |    |
| 782.00                                                                                            | 23230 | Mid  | LTE Band 13     | 10                          | 24.5                  | 23.11     | 32               | -0.10    | 1    | Left                                            | Cheek      | QPSK    | 25        | 0                    | 1345M      | 1:1      | 0.126          | 1.377             | 0.174  |    |
| 782.00                                                                                            | 23230 | Mid  | LTE Band 13     | 10                          | 25.5                  | 24.02     | 32               | -0.02    | 0    | Left                                            | Tilt       | QPSK    | 1         | 49                   | 1345M      | 1:1      | 0.092          | 1.406             | 0.129  |    |
| 782.00                                                                                            | 23230 | Mid  | LTE Band 13     | 10                          | 24.5                  | 23.11     | 32               | 0.05     | 1    | Left                                            | Tilt       | QPSK    | 25        | 0                    | 1345M      | 1:1      | 0.086          | 1.377             | 0.118  |    |
| 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 14 Handset Head SAR**

| MEASUREMENT RESULTS                                                                               |       |     |             |                 |                             |                       |           |                  |          |       |                                                 |            |         |           |                      |            |          |                |                   |        |
|---------------------------------------------------------------------------------------------------|-------|-----|-------------|-----------------|-----------------------------|-----------------------|-----------|------------------|----------|-------|-------------------------------------------------|------------|---------|-----------|----------------------|------------|----------|----------------|-------------------|--------|
| FREQUENCY                                                                                         |       |     | Mode        | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Ant State | 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 # |
|                                                                                                   |       |     |             |                 |                             |                       |           |                  |          |       |                                                 |            |         |           |                      |            | (W/kg)   |                | (W/kg)            |        |
| MHz                                                                                               | Ch.   |     |             |                 |                             |                       |           |                  |          |       |                                                 |            |         |           |                      |            |          |                |                   |        |
| 793.00                                                                                            | 23330 | Mid | LTE Band 14 | 10              | 25.5                        | 24.23                 | 32        | 0.16             | 0        | Right | Cheek                                           | QPSK       | 1       | 0         | 1345M                | 1:1        | 0.193    | 1.340          | 0.259             | A9     |
| 793.00                                                                                            | 23330 | Mid | LTE Band 14 | 10              | 24.5                        | 23.30                 | 32        | 0.03             | 1        | Right | Cheek                                           | QPSK       | 25      | 12        | 1345M                | 1:1        | 0.168    | 1.318          | 0.221             |        |
| 793.00                                                                                            | 23330 | Mid | LTE Band 14 | 10              | 25.5                        | 24.23                 | 32        | 0.14             | 0        | Right | Tilt                                            | QPSK       | 1       | 0         | 1345M                | 1:1        | 0.135    | 1.340          | 0.181             |        |
| 793.00                                                                                            | 23330 | Mid | LTE Band 14 | 10              | 24.5                        | 23.30                 | 32        | 0.01             | 1        | Right | Tilt                                            | QPSK       | 25      | 12        | 1345M                | 1:1        | 0.112    | 1.318          | 0.148             |        |
| 793.00                                                                                            | 23330 | Mid | LTE Band 14 | 10              | 25.5                        | 24.23                 | 32        | -0.14            | 0        | Left  | Cheek                                           | QPSK       | 1       | 0         | 1345M                | 1:1        | 0.147    | 1.340          | 0.197             |        |
| 793.00                                                                                            | 23330 | Mid | LTE Band 14 | 10              | 24.5                        | 23.30                 | 32        | 0.01             | 1        | Left  | Cheek                                           | QPSK       | 25      | 12        | 1345M                | 1:1        | 0.131    | 1.318          | 0.173             |        |
| 793.00                                                                                            | 23330 | Mid | LTE Band 14 | 10              | 25.5                        | 24.23                 | 32        | 0.06             | 0        | Left  | Tilt                                            | QPSK       | 1       | 0         | 1345M                | 1:1        | 0.105    | 1.340          | 0.141             |        |
| 793.00                                                                                            | 23330 | Mid | LTE Band 14 | 10              | 24.5                        | 23.30                 | 32        | 0.15             | 1        | Left  | Tilt                                            | QPSK       | 25      | 12        | 1345M                | 1:1        | 0.092    | 1.318          | 0.121             |        |
| 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: A3LSMF900F                      |  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 93 of 176                  |

**Table 11-10**  
**LTE Band 26 (Cell) Handset Head SAR**

| MEASUREMENT RESULTS                      |       |      |                    |                             |                       |           |                  |          |      |                      |            |         |           |                      |            |          |                |                   |        |     |
|------------------------------------------|-------|------|--------------------|-----------------------------|-----------------------|-----------|------------------|----------|------|----------------------|------------|---------|-----------|----------------------|------------|----------|----------------|-------------------|--------|-----|
| FREQUENCY                                |       | Mode | Bandwidth [MHz]    | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Ant State | 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)            |        |     |
| 831.50                                   | 26865 | Mid  | LTE Band 26 (Cell) | 15                          | 25.5                  | 24.22     | 0                | 0.13     | 0    | Right                | Cheek      | QPSK    | 1         | 0                    | 1390M      | 1:1      | 0.285          | 1.343             | 0.383  | A10 |
| 831.50                                   | 26865 | Mid  | LTE Band 26 (Cell) | 15                          | 24.5                  | 23.27     | 0                | 0.05     | 1    | Right                | Cheek      | QPSK    | 36        | 37                   | 1390M      | 1:1      | 0.240          | 1.327             | 0.318  |     |
| 831.50                                   | 26865 | Mid  | LTE Band 26 (Cell) | 15                          | 25.5                  | 24.22     | 0                | -0.13    | 0    | Right                | Tilt       | QPSK    | 1         | 0                    | 1390M      | 1:1      | 0.133          | 1.343             | 0.179  |     |
| 831.50                                   | 26865 | Mid  | LTE Band 26 (Cell) | 15                          | 24.5                  | 23.27     | 0                | -0.03    | 1    | Right                | Tilt       | QPSK    | 36        | 37                   | 1390M      | 1:1      | 0.106          | 1.327             | 0.141  |     |
| 831.50                                   | 26865 | Mid  | LTE Band 26 (Cell) | 15                          | 25.5                  | 24.22     | 0                | -0.12    | 0    | Left                 | Cheek      | QPSK    | 1         | 0                    | 1390M      | 1:1      | 0.213          | 1.343             | 0.286  |     |
| 831.50                                   | 26865 | Mid  | LTE Band 26 (Cell) | 15                          | 24.5                  | 23.27     | 0                | -0.01    | 1    | Left                 | Cheek      | QPSK    | 36        | 37                   | 1390M      | 1:1      | 0.186          | 1.327             | 0.247  |     |
| 831.50                                   | 26865 | Mid  | LTE Band 26 (Cell) | 15                          | 25.5                  | 24.22     | 0                | -0.07    | 0    | Left                 | Tilt       | QPSK    | 1         | 0                    | 1390M      | 1:1      | 0.117          | 1.343             | 0.157  |     |
| 831.50                                   | 26865 | Mid  | LTE Band 26 (Cell) | 15                          | 24.5                  | 23.27     | 0                | -0.04    | 1    | Left                 | Tilt       | QPSK    | 36        | 37                   | 1390M      | 1:1      | 0.092          | 1.327             | 0.122  |     |
| 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 11-11**  
**LTE Band 66 (AWS) Handset 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                                   | 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               | 1720.00   | 132072 | Low    | LTE Band 66 (AWS) | 20              | 25.0                        | 24.24                 | -0.08            | 0        | Right | Cheek                                           | QPSK       | 1       | 0         | 1404M                | 1:1        | 0.091    | 1.191          | 0.108             |        |
| 1 CC Uplink                                                                                       | N/A               | 1720.00   | 132072 | Low    | LTE Band 66 (AWS) | 20              | 24.0                        | 23.33                 | 0.06             | 1        | Right | Cheek                                           | QPSK       | 50      | 0         | 1404M                | 1:1        | 0.083    | 1.167          | 0.097             |        |
| 1 CC Uplink                                                                                       | N/A               | 1720.00   | 132072 | Low    | LTE Band 66 (AWS) | 20              | 25.0                        | 24.24                 | 0.11             | 0        | Right | Tilt                                            | QPSK       | 1       | 0         | 1404M                | 1:1        | 0.135    | 1.191          | 0.161             |        |
| 1 CC Uplink                                                                                       | N/A               | 1720.00   | 132072 | Low    | LTE Band 66 (AWS) | 20              | 24.0                        | 23.33                 | 0.05             | 1        | Right | Tilt                                            | QPSK       | 50      | 0         | 1404M                | 1:1        | 0.110    | 1.167          | 0.128             |        |
| 1 CC Uplink                                                                                       | N/A               | 1720.00   | 132072 | Low    | LTE Band 66 (AWS) | 20              | 25.0                        | 24.24                 | 0.05             | 0        | Left  | Cheek                                           | QPSK       | 1       | 0         | 1404M                | 1:1        | 0.164    | 1.191          | 0.195             | A11    |
| 1 CC Uplink                                                                                       | N/A               | 1720.00   | 132072 | Low    | LTE Band 66 (AWS) | 20              | 25.0                        | 23.98                 | -0.01            | 0        | Left  | Cheek                                           | QPSK       | 1       | 99        | 1404M                | 1:1        | 0.146    | 1.285          | 0.185             |        |
| 1 CC Uplink                                                                                       | N/A               | 1715.00   | 132022 | Low    | LTE Band 66 (AWS) | 10              | 25.0                        | 24.02                 | 0.10             | 0        | Left  | Cheek                                           | QPSK       | 1       | 49        | 1404M                | 1:1        | 0.138    | 1.253          | 0.173             |        |
| 1 CC Uplink                                                                                       | N/A               | 1720.00   | 132072 | Low    | LTE Band 66 (AWS) | 20              | 24.0                        | 23.33                 | 0.07             | 1        | Left  | Cheek                                           | QPSK       | 50      | 0         | 1404M                | 1:1        | 0.136    | 1.167          | 0.159             |        |
| CA_66C 2 CC Uplink                                                                                | PCC               | 1720.00   | 132072 | Low    | LTE Band 66 (AWS) | 20              | 25.0                        | 24.19                 | 0.04             | 0        | Left  | Cheek                                           | QPSK       | 1       | 99        | 1404M                | 1:1        | 0.158    | 1.205          | 0.190             |        |
|                                                                                                   | SCC               | 1739.80   | 132270 | Low    | LTE Band 66 (AWS) | 20              |                             |                       |                  |          |       |                                                 |            | 1       | 0         |                      |            |          |                |                   |        |
| CA_66B 2 CC Uplink                                                                                | PCC               | 1715.00   | 132022 | Low    | LTE Band 66 (AWS) | 10              | 25.0                        | 24.36                 | -0.01            | 0        | Left  | Cheek                                           | QPSK       | 1       | 49        | 1404M                | 1:1        | 0.150    | 1.159          | 0.174             |        |
|                                                                                                   | SCC               | 1724.90   | 132121 | Low    | LTE Band 66 (AWS) | 10              |                             |                       |                  |          |       |                                                 |            | 1       | 0         |                      |            |          |                |                   |        |
| 1 CC Uplink                                                                                       | N/A               | 1720.00   | 132072 | Low    | LTE Band 66 (AWS) | 20              | 25.0                        | 24.24                 | 0.09             | 0        | Left  | Tilt                                            | QPSK       | 1       | 0         | 1404M                | 1:1        | 0.162    | 1.191          | 0.193             |        |
| 1 CC Uplink                                                                                       | N/A               | 1720.00   | 132072 | Low    | LTE Band 66 (AWS) | 20              | 24.0                        | 23.33                 | 0.09             | 1        | Left  | Tilt                                            | QPSK       | 50      | 0         | 1404M                | 1:1        | 0.128    | 1.167          | 0.149             |        |
| 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 25 (PCS) Handset 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)            |        |     |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20                          | 25.0                  | 24.10            | 0.03     | 0    | Right         | Cheek                                           | QPSK    | 1         | 0                    | 1345M      | 1:1      | 0.115          | 1.230             | 0.141  |     |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20                          | 24.0                  | 23.20            | 0.06     | 1    | Right         | Cheek                                           | QPSK    | 50        | 50                   | 1345M      | 1:1      | 0.087          | 1.202             | 0.105  |     |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20                          | 25.0                  | 24.10            | -0.03    | 0    | Right         | Tilt                                            | QPSK    | 1         | 0                    | 1345M      | 1:1      | 0.143          | 1.230             | 0.176  |     |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20                          | 24.0                  | 23.20            | 0.03     | 1    | Right         | Tilt                                            | QPSK    | 50        | 50                   | 1345M      | 1:1      | 0.111          | 1.202             | 0.133  |     |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20                          | 25.0                  | 24.10            | -0.08    | 0    | Left          | Cheek                                           | QPSK    | 1         | 0                    | 1345M      | 1:1      | 0.170          | 1.230             | 0.209  | A12 |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20                          | 24.0                  | 23.20            | 0.00     | 1    | Left          | Cheek                                           | QPSK    | 50        | 50                   | 1345M      | 1:1      | 0.152          | 1.202             | 0.183  |     |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20                          | 25.0                  | 24.10            | 0.07     | 0    | Left          | Tilt                                            | QPSK    | 1         | 0                    | 1345M      | 1:1      | 0.133          | 1.230             | 0.164  |     |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20                          | 24.0                  | 23.20            | 0.17     | 1    | Left          | Tilt                                            | QPSK    | 50        | 50                   | 1345M      | 1:1      | 0.096          | 1.202             | 0.115  |     |
| 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: A3LSMF900F                      |  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 94 of 176                  |

**Table 11-13**  
**LTE Band 30 Handset 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                          | 25.0                  | 24.33            | -0.10    | 0    | Right                                           | Cheek      | QPSK    | 1         | 0                    | 1359M      | 1:1      | 0.119          | 1.167             | 0.139  |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 24.0                  | 23.35            | 0.01     | 1    | Right                                           | Cheek      | QPSK    | 25        | 12                   | 1359M      | 1:1      | 0.093          | 1.161             | 0.108  |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 25.0                  | 24.33            | 0.16     | 0    | Right                                           | Tilt       | QPSK    | 1         | 0                    | 1359M      | 1:1      | 0.080          | 1.167             | 0.093  |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 24.0                  | 23.35            | 0.05     | 1    | Right                                           | Tilt       | QPSK    | 25        | 12                   | 1359M      | 1:1      | 0.069          | 1.161             | 0.080  |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 25.0                  | 24.33            | -0.06    | 0    | Left                                            | Cheek      | QPSK    | 1         | 0                    | 1359M      | 1:1      | 0.187          | 1.167             | 0.218  |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 24.0                  | 23.35            | -0.02    | 1    | Left                                            | Cheek      | QPSK    | 25        | 12                   | 1359M      | 1:1      | 0.166          | 1.161             | 0.193  |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 25.0                  | 24.33            | 0.03     | 0    | Left                                            | Tilt       | QPSK    | 1         | 0                    | 1359M      | 1:1      | 0.055          | 1.167             | 0.064  |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 24.0                  | 23.35            | 0.08     | 1    | Left                                            | Tilt       | QPSK    | 25        | 12                   | 1359M      | 1:1      | 0.036          | 1.161             | 0.042  |
| 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 7 Handset 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                                   | 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               | 2510.00   | 20850 | Low | LTE Band 7 | 20              | 24.6                        | 24.17                 | -0.09            | 0        | Right | Cheek                                           | QPSK       | 1       | 99        | 1358M                | 1:1        | 0.132    | 1.104          | 0.146             |        |
| 1 CC Uplink                                                                                       | N/A               | 2510.00   | 20850 | Low | LTE Band 7 | 20              | 23.6                        | 23.22                 | 0.12             | 1        | Right | Cheek                                           | QPSK       | 50      | 0         | 1358M                | 1:1        | 0.105    | 1.091          | 0.115             |        |
| 1 CC Uplink                                                                                       | N/A               | 2510.00   | 20850 | Low | LTE Band 7 | 20              | 24.6                        | 24.17                 | 0.04             | 0        | Right | Tilt                                            | QPSK       | 1       | 99        | 1358M                | 1:1        | 0.070    | 1.104          | 0.077             |        |
| 1 CC Uplink                                                                                       | N/A               | 2510.00   | 20850 | Low | LTE Band 7 | 20              | 23.6                        | 23.22                 | 0.06             | 1        | Right | Tilt                                            | QPSK       | 50      | 0         | 1358M                | 1:1        | 0.058    | 1.091          | 0.063             |        |
| 1 CC Uplink                                                                                       | N/A               | 2510.00   | 20850 | Low | LTE Band 7 | 20              | 24.6                        | 24.17                 | 0.04             | 0        | Left  | Cheek                                           | QPSK       | 1       | 99        | 1358M                | 1:1        | 0.144    | 1.104          | 0.159             | A14    |
| 1 CC Uplink                                                                                       | N/A               | 2510.00   | 20850 | Low | LTE Band 7 | 20              | 23.6                        | 23.22                 | 0.03             | 1        | Left  | Cheek                                           | QPSK       | 50      | 0         | 1358M                | 1:1        | 0.111    | 1.091          | 0.121             |        |
| 2 CC Uplink                                                                                       | PCC               | 2510.00   | 20850 | Low | LTE Band 7 | 20              | 24.6                        | 23.80                 | -0.06            | 0        | Left  | Cheek                                           | QPSK       | 1       | 99        | 1358M                | 1:1        | 0.135    | 1.202          | 0.162             |        |
|                                                                                                   | SCC               | 2529.80   | 21048 | Low | LTE Band 7 | 20              |                             |                       |                  |          |       |                                                 |            | 1       | 0         |                      |            |          |                |                   |        |
| 1 CC Uplink                                                                                       | N/A               | 2510.00   | 20850 | Low | LTE Band 7 | 20              | 24.6                        | 24.17                 | -0.04            | 0        | Left  | Tilt                                            | QPSK       | 1       | 99        | 1358M                | 1:1        | 0.093    | 1.104          | 0.103             |        |
| 1 CC Uplink                                                                                       | N/A               | 2510.00   | 20850 | Low | LTE Band 7 | 20              | 23.6                        | 23.22                 | 0.07             | 1        | Left  | Tilt                                            | QPSK       | 50      | 0         | 1358M                | 1:1        | 0.064    | 1.091          | 0.070             |        |
| 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 11-15**  
**LTE Band 41 Handset 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)            |        |
| 2636.50                                                                                           | 41055 | Mid-High | LTE Band 41     | 20                          | 25.0                  | 24.35            | 0.14     | 0    | Right                                           | Cheek      | QPSK    | 1         | 0                    | 1358M      | 1:1.58   | 0.047          | 1.161             | 0.055  |
| 2636.50                                                                                           | 41055 | Mid-High | LTE Band 41     | 20                          | 24.0                  | 23.52            | 0.09     | 1    | Right                                           | Cheek      | QPSK    | 50        | 0                    | 1358M      | 1:1.58   | 0.039          | 1.117             | 0.044  |
| 2636.50                                                                                           | 41055 | Mid-High | LTE Band 41     | 20                          | 25.0                  | 24.35            | 0.07     | 0    | Right                                           | Tilt       | QPSK    | 1         | 0                    | 1358M      | 1:1.58   | 0.031          | 1.161             | 0.036  |
| 2636.50                                                                                           | 41055 | Mid-High | LTE Band 41     | 20                          | 24.0                  | 23.52            | 0.15     | 1    | Right                                           | Tilt       | QPSK    | 50        | 0                    | 1358M      | 1:1.58   | 0.025          | 1.117             | 0.028  |
| 2636.50                                                                                           | 41055 | Mid-High | LTE Band 41     | 20                          | 25.0                  | 24.35            | 0.04     | 0    | Left                                            | Cheek      | QPSK    | 1         | 0                    | 1358M      | 1:1.58   | 0.082          | 1.161             | 0.095  |
| 2636.50                                                                                           | 41055 | Mid-High | LTE Band 41     | 20                          | 24.0                  | 23.52            | 0.08     | 1    | Left                                            | Cheek      | QPSK    | 50        | 0                    | 1358M      | 1:1.58   | 0.059          | 1.117             | 0.066  |
| 2636.50                                                                                           | 41055 | Mid-High | LTE Band 41     | 20                          | 25.0                  | 24.35            | 0.05     | 0    | Left                                            | Tilt       | QPSK    | 1         | 0                    | 1358M      | 1:1.58   | 0.062          | 1.161             | 0.072  |
| 2636.50                                                                                           | 41055 | Mid-High | LTE Band 41     | 20                          | 24.0                  | 23.52            | 0.01     | 1    | Left                                            | Tilt       | QPSK    | 50        | 0                    | 1358M      | 1:1.58   | 0.045          | 1.117             | 0.050  |
| 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: A3LSMF900F                      |  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 95 of 176                  |

**Table 11-16**  
**DTS Handset 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)            |        |
| 2462                                                                                              | 11  | 802.11b | DSSS    | 22              | 17.0                        | 16.85                 | 0.12             | Right | Cheek         | 1                                               | 1385M                | 1                | 99.9           | 0.070                 | -        | 1.035                  | 1.001                       | -                 |        |
| 2462                                                                                              | 11  | 802.11b | DSSS    | 22              | 17.0                        | 16.85                 | 0.07             | Right | Tilt          | 1                                               | 1385M                | 1                | 99.9           | 0.085                 | 0.050    | 1.035                  | 1.001                       | 0.052             |        |
| 2462                                                                                              | 11  | 802.11b | DSSS    | 22              | 17.0                        | 16.85                 | -0.11            | Left  | Cheek         | 1                                               | 1385M                | 1                | 99.9           | 0.044                 | -        | 1.035                  | 1.001                       | -                 |        |
| 2462                                                                                              | 11  | 802.11b | DSSS    | 22              | 17.0                        | 16.85                 | 0.03             | Left  | Tilt          | 1                                               | 1385M                | 1                | 99.9           | 0.052                 | -        | 1.035                  | 1.001                       | -                 |        |
| 2462                                                                                              | 11  | 802.11b | DSSS    | 22              | 17.0                        | 16.82                 | 0.06             | Right | Cheek         | 2                                               | 1385M                | 1                | 99.9           | 0.141                 | -        | 1.042                  | 1.001                       | -                 |        |
| 2462                                                                                              | 11  | 802.11b | DSSS    | 22              | 17.0                        | 16.82                 | 0.03             | Right | Tilt          | 2                                               | 1385M                | 1                | 99.9           | 0.161                 | 0.089    | 1.042                  | 1.001                       | 0.093             | A16    |
| 2462                                                                                              | 11  | 802.11b | DSSS    | 22              | 17.0                        | 16.82                 | -0.06            | Left  | Cheek         | 2                                               | 1385M                | 1                | 99.9           | 0.069                 | -        | 1.042                  | 1.001                       | -                 |        |
| 2462                                                                                              | 11  | 802.11b | DSSS    | 22              | 17.0                        | 16.82                 | 0.00             | Left  | Tilt          | 2                                               | 1385M                | 1                | 99.9           | 0.083                 | -        | 1.042                  | 1.001                       | -                 |        |
| 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**  
**NII Handset 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)            |        |
| 5310                                                                                              | 62  | 802.11n  | OFDM    | 40              | 14.0                        | 13.87                 | 0.09             | Right | Cheek         | 1                                               | 1365M                | 13.5             | 97.2           | 0.123                 | 0.058    | 1.030                  | 1.028                       | 0.061             | A17    |
| 5310                                                                                              | 62  | 802.11n  | OFDM    | 40              | 14.0                        | 13.87                 | 0.07             | Right | Tilt          | 1                                               | 1365M                | 13.5             | 97.2           | 0.073                 | -        | 1.030                  | 1.028                       | -                 |        |
| 5310                                                                                              | 62  | 802.11n  | OFDM    | 40              | 14.0                        | 13.87                 | 0.09             | Left  | Cheek         | 1                                               | 1365M                | 13.5             | 97.2           | 0.116                 | -        | 1.030                  | 1.028                       | -                 |        |
| 5310                                                                                              | 62  | 802.11n  | OFDM    | 40              | 14.0                        | 13.87                 | -0.09            | Left  | Tilt          | 1                                               | 1365M                | 13.5             | 97.2           | 0.082                 | -        | 1.030                  | 1.028                       | -                 |        |
| 5310                                                                                              | 62  | 802.11n  | OFDM    | 40              | 14.0                        | 13.94                 | 0.04             | Right | Cheek         | 2                                               | 1365M                | 13.5             | 97.2           | 0.086                 | -        | 1.014                  | 1.029                       | -                 |        |
| 5310                                                                                              | 62  | 802.11n  | OFDM    | 40              | 14.0                        | 13.94                 | 0.11             | Right | Tilt          | 2                                               | 1365M                | 13.5             | 97.2           | 0.174                 | 0.054    | 1.014                  | 1.029                       | 0.056             |        |
| 5310                                                                                              | 62  | 802.11n  | OFDM    | 40              | 14.0                        | 13.94                 | -0.04            | Left  | Cheek         | 2                                               | 1365M                | 13.5             | 97.2           | 0.079                 | -        | 1.014                  | 1.029                       | -                 |        |
| 5310                                                                                              | 62  | 802.11n  | OFDM    | 40              | 14.0                        | 13.94                 | 0.05             | Left  | Tilt          | 2                                               | 1365M                | 13.5             | 97.2           | 0.118                 | -        | 1.014                  | 1.029                       | -                 |        |
| 5530                                                                                              | 106 | 802.11ac | OFDM    | 80              | 14.0                        | 12.86                 | 0.00             | Right | Cheek         | 1                                               | 1365M                | 29.3             | 94.5           | 0.032                 | -        | 1.300                  | 1.058                       | -                 |        |
| 5530                                                                                              | 106 | 802.11ac | OFDM    | 80              | 14.0                        | 12.86                 | 0.10             | Right | Tilt          | 1                                               | 1365M                | 29.3             | 94.5           | 0.039                 | 0.018    | 1.300                  | 1.058                       | 0.025             |        |
| 5530                                                                                              | 106 | 802.11ac | OFDM    | 80              | 14.0                        | 12.86                 | -0.03            | Left  | Cheek         | 1                                               | 1365M                | 29.3             | 94.5           | 0.020                 | -        | 1.300                  | 1.058                       | -                 |        |
| 5530                                                                                              | 106 | 802.11ac | OFDM    | 80              | 14.0                        | 12.86                 | 0.08             | Left  | Tilt          | 1                                               | 1365M                | 29.3             | 94.5           | 0.033                 | -        | 1.300                  | 1.058                       | -                 |        |
| 5610                                                                                              | 122 | 802.11ac | OFDM    | 80              | 14.0                        | 12.86                 | 0.07             | Right | Cheek         | 2                                               | 1365M                | 29.3             | 96.2           | 0.042                 | -        | 1.300                  | 1.040                       | -                 |        |
| 5610                                                                                              | 122 | 802.11ac | OFDM    | 80              | 14.0                        | 12.86                 | 0.06             | Right | Tilt          | 2                                               | 1365M                | 29.3             | 96.2           | 0.084                 | -        | 1.300                  | 1.040                       | -                 |        |
| 5610                                                                                              | 122 | 802.11ac | OFDM    | 80              | 14.0                        | 12.86                 | -0.03            | Left  | Cheek         | 2                                               | 1365M                | 29.3             | 96.2           | 0.043                 | -        | 1.300                  | 1.040                       | -                 |        |
| 5610                                                                                              | 122 | 802.11ac | OFDM    | 80              | 14.0                        | 12.86                 | 0.08             | Left  | Tilt          | 2                                               | 1365M                | 29.3             | 96.2           | 0.090                 | 0.027    | 1.300                  | 1.040                       | 0.037             |        |
| 5775                                                                                              | 155 | 802.11ac | OFDM    | 80              | 14.0                        | 12.58                 | -0.18            | Right | Cheek         | 1                                               | 1365M                | 29.3             | 94.5           | 0.068                 | -        | 1.387                  | 1.058                       | -                 |        |
| 5775                                                                                              | 155 | 802.11ac | OFDM    | 80              | 14.0                        | 12.58                 | 0.06             | Right | Tilt          | 1                                               | 1365M                | 29.3             | 94.5           | 0.073                 | 0.026    | 1.387                  | 1.058                       | 0.038             |        |
| 5775                                                                                              | 155 | 802.11ac | OFDM    | 80              | 14.0                        | 12.58                 | -0.02            | Left  | Cheek         | 1                                               | 1365M                | 29.3             | 94.5           | 0.060                 | -        | 1.387                  | 1.058                       | -                 |        |
| 5775                                                                                              | 155 | 802.11ac | OFDM    | 80              | 14.0                        | 12.58                 | 0.09             | Left  | Tilt          | 1                                               | 1365M                | 29.3             | 94.5           | 0.072                 | -        | 1.387                  | 1.058                       | -                 |        |
| 5775                                                                                              | 155 | 802.11ac | OFDM    | 80              | 14.0                        | 12.85                 | 0.15             | Right | Cheek         | 2                                               | 1365M                | 29.3             | 96.2           | 0.039                 | -        | 1.303                  | 1.040                       | -                 |        |
| 5775                                                                                              | 155 | 802.11ac | OFDM    | 80              | 14.0                        | 12.85                 | 0.07             | Right | Tilt          | 2                                               | 1365M                | 29.3             | 96.2           | 0.074                 | 0.024    | 1.303                  | 1.040                       | 0.033             |        |
| 5775                                                                                              | 155 | 802.11ac | OFDM    | 80              | 14.0                        | 12.85                 | -0.06            | Left  | Cheek         | 2                                               | 1365M                | 29.3             | 96.2           | 0.050                 | -        | 1.303                  | 1.040                       | -                 |        |
| 5775                                                                                              | 155 | 802.11ac | OFDM    | 80              | 14.0                        | 12.85                 | 0.05             | Left  | Tilt          | 2                                               | 1365M                | 29.3             | 96.2           | 0.071                 | -        | 1.303                  | 1.040                       | -                 |        |
| 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: A3LSMF900F                      |  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 96 of 176                  |

**Table 11-18**  
**DSS Handset 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    | 16.5                        | 16.18                 | 0.14             | Right | Cheek                                           | 1358B                | 1                | 77.1           | 0.043    | 1.076                       | 1.297                       | 0.060             |        |
| 2402.00                                                                                           | 0   | Bluetooth | FHSS    | 16.5                        | 16.18                 | -0.03            | Right | Tilt                                            | 1358B                | 1                | 77.1           | 0.055    | 1.076                       | 1.297                       | 0.077             | A18    |
| 2402.00                                                                                           | 0   | Bluetooth | FHSS    | 16.5                        | 16.18                 | 0.18             | Left  | Cheek                                           | 1358B                | 1                | 77.1           | 0.023    | 1.076                       | 1.297                       | 0.032             |        |
| 2402.00                                                                                           | 0   | Bluetooth | FHSS    | 16.5                        | 16.18                 | -0.14            | Left  | Tilt                                            | 1358B                | 1                | 77.1           | 0.036    | 1.076                       | 1.297                       | 0.050             |        |
| 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 |                      |                  |                |          |                             |                             |                   |        |

## 11.2 Standalone Body-Worn SAR Data

**Table 11-19**  
**GSM/UMTS Handset Body-Worn SAR Data**

| MEASUREMENT RESULTS                                                                               |      |           |         |                             |                       |           |                  |                                                 |                      |                 |            |      |          |                |                   |        |
|---------------------------------------------------------------------------------------------------|------|-----------|---------|-----------------------------|-----------------------|-----------|------------------|-------------------------------------------------|----------------------|-----------------|------------|------|----------|----------------|-------------------|--------|
| FREQUENCY                                                                                         |      | Mode      | Service | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Ant State | Power Drift [dB] | Spacing                                         | Device Serial Number | # of Time Slots | Duty Cycle | Side | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |
| MHz                                                                                               | Ch.  |           |         |                             |                       |           |                  |                                                 |                      |                 |            |      | (W/kg)   |                | (W/kg)            |        |
| 836.60                                                                                            | 190  | GSM 850   | GSM     | 34.0                        | 33.06                 | N/A       | 0.02             | 15 mm                                           | 1365M                | 1               | 1:8.3      | back | 0.218    | 1.242          | 0.271             | A19    |
| 1880.00                                                                                           | 661  | GSM 1900  | GSM     | 31.5                        | 29.82                 | N/A       | 0.05             | 15 mm                                           | 1404M                | 1               | 1:8.3      | back | 0.182    | 1.472          | 0.268             | A21    |
| 836.60                                                                                            | 4183 | UMTS 850  | RMC     | 25.5                        | 24.19                 | 0         | 0.01             | 15 mm                                           | 1366M                | N/A             | 1:1        | back | 0.198    | 1.352          | 0.268             | A23    |
| 1712.40                                                                                           | 1312 | UMTS 1750 | RMC     | 25.5                        | 24.14                 | N/A       | -0.01            | 15 mm                                           | 1362M                | N/A             | 1:1        | back | 0.427    | 1.368          | 0.584             |        |
| 1732.40                                                                                           | 1412 | UMTS 1750 | RMC     | 25.5                        | 24.17                 | N/A       | 0.01             | 15 mm                                           | 1362M                | N/A             | 1:1        | back | 0.511    | 1.358          | 0.694             | A25    |
| 1752.60                                                                                           | 1513 | UMTS 1750 | RMC     | 25.5                        | 24.08                 | N/A       | 0.02             | 15 mm                                           | 1362M                | N/A             | 1:1        | back | 0.481    | 1.387          | 0.667             |        |
| 1880.00                                                                                           | 9400 | UMTS 1900 | RMC     | 25.5                        | 24.32                 | N/A       | -0.11            | 15 mm                                           | 1389M                | N/A             | 1:1        | back | 0.343    | 1.312          | 0.450             | A27    |
| 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: A3LSMF900F                             |  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                             | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 97 of 176                         |

**Table 11-20**  
**LTE Handset Body-Worn SAR**

| MEASUREMENT RESULTS                                                                               |        |          |                    |                 |                             |                       |           |                  |          |                                                 |            |         |           |         |      |            |          |                |                   |        |
|---------------------------------------------------------------------------------------------------|--------|----------|--------------------|-----------------|-----------------------------|-----------------------|-----------|------------------|----------|-------------------------------------------------|------------|---------|-----------|---------|------|------------|----------|----------------|-------------------|--------|
| FREQUENCY                                                                                         |        |          | Mode               | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Ant State | 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)            |        |
| 680.50                                                                                            | 133297 | Mid      | LTE Band 71        | 20              | 25.5                        | 24.62                 | 34        | 0.08             | 0        | 1360M                                           | QPSK       | 1       | 0         | 15 mm   | back | 1:1        | 0.280    | 1.225          | 0.343             | A29    |
| 680.50                                                                                            | 133297 | Mid      | LTE Band 71        | 20              | 24.5                        | 23.75                 | 34        | 0.04             | 1        | 1360M                                           | QPSK       | 50      | 0         | 15 mm   | back | 1:1        | 0.228    | 1.189          | 0.271             |        |
| 707.50                                                                                            | 23095  | Mid      | LTE Band 12        | 10              | 25.5                        | 24.26                 | 32        | 0.03             | 0        | 1360M                                           | QPSK       | 1       | 25        | 15 mm   | back | 1:1        | 0.283    | 1.330          | 0.376             | A31    |
| 707.50                                                                                            | 23095  | Mid      | LTE Band 12        | 10              | 24.5                        | 23.48                 | 32        | 0.00             | 1        | 1360M                                           | QPSK       | 25      | 0         | 15 mm   | back | 1:1        | 0.232    | 1.265          | 0.293             |        |
| 782.00                                                                                            | 23230  | Mid      | LTE Band 13        | 10              | 25.5                        | 24.02                 | 78        | -0.04            | 0        | 1389M                                           | QPSK       | 1       | 49        | 15 mm   | back | 1:1        | 0.195    | 1.406          | 0.274             | A33    |
| 782.00                                                                                            | 23230  | Mid      | LTE Band 13        | 10              | 24.5                        | 23.11                 | 78        | 0.03             | 1        | 1389M                                           | QPSK       | 25      | 0         | 15 mm   | back | 1:1        | 0.168    | 1.377          | 0.231             |        |
| 793.00                                                                                            | 23330  | Mid      | LTE Band 14        | 10              | 25.5                        | 24.23                 | 32        | 0.03             | 0        | 1389M                                           | QPSK       | 1       | 0         | 15 mm   | back | 1:1        | 0.212    | 1.340          | 0.284             | A35    |
| 793.00                                                                                            | 23330  | Mid      | LTE Band 14        | 10              | 24.5                        | 23.30                 | 32        | -0.07            | 1        | 1389M                                           | QPSK       | 25      | 12        | 15 mm   | back | 1:1        | 0.168    | 1.318          | 0.221             |        |
| 831.50                                                                                            | 26865  | Mid      | LTE Band 26 (Cell) | 15              | 25.5                        | 24.22                 | 0         | -0.05            | 0        | 1366M                                           | QPSK       | 1       | 0         | 15 mm   | back | 1:1        | 0.147    | 1.343          | 0.197             | A37    |
| 831.50                                                                                            | 26865  | Mid      | LTE Band 26 (Cell) | 15              | 24.5                        | 23.27                 | 0         | -0.04            | 1        | 1366M                                           | QPSK       | 36      | 37        | 15 mm   | back | 1:1        | 0.126    | 1.327          | 0.167             |        |
| 1720.00                                                                                           | 132072 | Low      | LTE Band 66 (AWS)  | 20              | 25.0                        | 24.24                 | N/A       | -0.03            | 0        | 1362M                                           | QPSK       | 1       | 0         | 15 mm   | back | 1:1        | 0.421    | 1.191          | 0.501             | A39    |
| 1720.00                                                                                           | 132072 | Low      | LTE Band 66 (AWS)  | 20              | 24.0                        | 23.33                 | N/A       | 0.04             | 1        | 1362M                                           | QPSK       | 50      | 0         | 15 mm   | back | 1:1        | 0.334    | 1.167          | 0.390             |        |
| 1860.00                                                                                           | 26140  | Low      | LTE Band 25 (PCS)  | 20              | 25.0                        | 24.10                 | N/A       | 0.01             | 0        | 1389M                                           | QPSK       | 1       | 0         | 15 mm   | back | 1:1        | 0.339    | 1.230          | 0.417             | A41    |
| 1860.00                                                                                           | 26140  | Low      | LTE Band 25 (PCS)  | 20              | 24.0                        | 23.20                 | N/A       | -0.06            | 1        | 1389M                                           | QPSK       | 50      | 50        | 15 mm   | back | 1:1        | 0.271    | 1.202          | 0.326             |        |
| 2310.00                                                                                           | 27710  | Mid      | LTE Band 30        | 10              | 25.0                        | 24.33                 | N/A       | 0.07             | 0        | 1404M                                           | QPSK       | 1       | 0         | 15 mm   | back | 1:1        | 0.318    | 1.167          | 0.371             | A43    |
| 2310.00                                                                                           | 27710  | Mid      | LTE Band 30        | 10              | 24.0                        | 23.35                 | N/A       | 0.03             | 1        | 1404M                                           | QPSK       | 25      | 12        | 15 mm   | back | 1:1        | 0.264    | 1.161          | 0.307             |        |
| 2510.00                                                                                           | 20850  | Low      | LTE Band 7         | 20              | 24.6                        | 24.17                 | N/A       | -0.10            | 0        | 1404M                                           | QPSK       | 1       | 99        | 15 mm   | back | 1:1        | 0.274    | 1.104          | 0.302             | A45    |
| 2510.00                                                                                           | 20850  | Low      | LTE Band 7         | 20              | 23.6                        | 23.22                 | N/A       | -0.01            | 1        | 1404M                                           | QPSK       | 50      | 0         | 15 mm   | back | 1:1        | 0.179    | 1.091          | 0.195             |        |
| 2636.50                                                                                           | 41055  | Mid-High | LTE Band 41        | 20              | 25.0                        | 24.35                 | N/A       | 0.06             | 0        | 1404M                                           | QPSK       | 1       | 0         | 15 mm   | back | 1:1.58     | 0.093    | 1.161          | 0.108             | A47    |
| 2636.50                                                                                           | 41055  | Mid-High | LTE Band 41        | 20              | 24.0                        | 23.52                 | N/A       | 0.10             | 1        | 1404M                                           | QPSK       | 50      | 0         | 15 mm   | back | 1:1.58     | 0.071    | 1.117          | 0.079             |        |
| 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 11-21**  
**DTS Handset 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              | 20.0                        | 19.97                 | 0.16             | 15 mm                                           | 1               | 1385M                | 1                | back | 99.9           | 0.127                 | 0.102    | 1.007                  | 1.001                       | 0.103             | A49    |
| 2412                                                                                              | 1   | 802.11b | DSSS    | 22              | 20.0                        | 19.98                 | 0.03             | 15 mm                                           | 2               | 1385M                | 1                | back | 99.9           | 0.114                 | 0.090    | 1.005                  | 1.001                       | 0.091             |        |
| 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 11-22**  
**NII Handset 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)            |        |
| 5320                                     | 64  | 802.11a | OFDM    | 20              | 18.0                        | 17.91                 | 0.11             | 15 mm                | 1               | 1360M                | 6                | back | 98.8           | 0.723                 | 0.330    | 1.021                  | 1.013                       | 0.341             |        |
| 5280                                     | 56  | 802.11a | OFDM    | 20              | 18.0                        | 17.99                 | 0.16             | 15 mm                | 2               | 1360M                | 6                | back | 98.7           | 0.173                 | 0.083    | 1.002                  | 1.013                       | 0.084             |        |
| 5500                                     | 100 | 802.11a | OFDM    | 20              | 18.0                        | 17.94                 | -0.08            | 15 mm                | 1               | 1360M                | 6                | back | 98.8           | 1.236                 | 0.530    | 1.014                  | 1.013                       | 0.544             | A51    |
| 5720                                     | 144 | 802.11a | OFDM    | 20              | 18.0                        | 17.98                 | 0.07             | 15 mm                | 2               | 1360M                | 6                | back | 98.7           | 0.109                 | 0.045    | 1.005                  | 1.013                       | 0.046             |        |
| 5785                                     | 157 | 802.11a | OFDM    | 20              | 18.0                        | 17.97                 | 0.06             | 15 mm                | 1               | 1360M                | 6                | back | 98.8           | 0.357                 | 0.149    | 1.007                  | 1.013                       | 0.152             |        |
| 5785                                     | 157 | 802.11a | OFDM    | 20              | 18.0                        | 17.86                 | 0.03             | 15 mm                | 2               | 1360M                | 6                | back | 98.7           | 0.080                 | 0.023    | 1.033                  | 1.013                       | 0.024             |        |
| 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: A3LSMF900F                      |  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 98 of 176                  |

**Table 11-23**  
**DSS Handset 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    | 16.5                        | 16.18                 | 0.05             | 15 mm                                           | 1385M                | 1                | back | 77.1           | 0.010    | 1.076                       | 1.297                       | 0.014             | A53    |
| 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 |                      |                  |      |                |          |                             |                             |                   |        |

## 11.3 Standalone Hotspot SAR Data

**Table 11-24**  
**GPRS Handset Hotspot SAR Data**

| MEASUREMENT RESULTS                                                                               |     |          |         |                             |                       |                  |                                                 |                      |                 |            |        |          |                |                   |        |
|---------------------------------------------------------------------------------------------------|-----|----------|---------|-----------------------------|-----------------------|------------------|-------------------------------------------------|----------------------|-----------------|------------|--------|----------|----------------|-------------------|--------|
| FREQUENCY                                                                                         |     | Mode     | Service | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | Spacing                                         | Device Serial Number | # of GPRS Slots | Duty Cycle | Side   | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |
| MHz                                                                                               | Ch. |          |         |                             |                       |                  |                                                 |                      |                 |            |        | (W/kg)   |                | (W/kg)            |        |
| 836.60                                                                                            | 190 | GSM 850  | GPRS    | 31.0                        | 29.88                 | -0.04            | 10 mm                                           | 1365M                | 3               | 1:2.76     | back   | 0.356    | 1.294          | 0.461             |        |
| 836.60                                                                                            | 190 | GSM 850  | GPRS    | 31.0                        | 29.88                 | -0.08            | 10 mm                                           | 1365M                | 3               | 1:2.76     | front  | 0.248    | 1.294          | 0.321             |        |
| 836.60                                                                                            | 190 | GSM 850  | GPRS    | 31.0                        | 29.88                 | 0.10             | 10 mm                                           | 1365M                | 3               | 1:2.76     | bottom | 0.308    | 1.294          | 0.399             |        |
| 836.60                                                                                            | 190 | GSM 850  | GPRS    | 31.0                        | 29.88                 | -0.02            | 10 mm                                           | 1365M                | 3               | 1:2.76     | right  | 0.388    | 1.294          | 0.502             | A20    |
| 1880.00                                                                                           | 661 | GSM 1900 | GPRS    | 28.5                        | 27.08                 | -0.02            | 10 mm                                           | 1404M                | 2               | 1:4.15     | back   | 0.441    | 1.387          | 0.612             |        |
| 1880.00                                                                                           | 661 | GSM 1900 | GPRS    | 28.5                        | 27.08                 | 0.05             | 10 mm                                           | 1404M                | 2               | 1:4.15     | front  | 0.172    | 1.387          | 0.239             |        |
| 1850.20                                                                                           | 512 | GSM 1900 | GPRS    | 28.5                        | 27.13                 | -0.05            | 10 mm                                           | 1404M                | 2               | 1:4.15     | bottom | 0.445    | 1.371          | 0.610             |        |
| 1880.00                                                                                           | 661 | GSM 1900 | GPRS    | 28.5                        | 27.08                 | -0.12            | 10 mm                                           | 1404M                | 2               | 1:4.15     | bottom | 0.500    | 1.387          | 0.694             |        |
| 1909.80                                                                                           | 810 | GSM 1900 | GPRS    | 28.5                        | 26.91                 | 0.07             | 10 mm                                           | 1404M                | 2               | 1:4.15     | bottom | 0.507    | 1.442          | 0.731             | A22    |
| 1880.00                                                                                           | 661 | GSM 1900 | GPRS    | 28.5                        | 27.08                 | -0.07            | 10 mm                                           | 1404M                | 2               | 1:4.15     | right  | 0.138    | 1.387          | 0.191             |        |
| 1880.00                                                                                           | 661 | GSM 1900 | GPRS    | 28.5                        | 27.08                 | 0.01             | 10 mm                                           | 1404M                | 2               | 1:4.15     | left   | 0.108    | 1.387          | 0.150             |        |
| 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: A3LSMF900F                             |  <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                                                                           | <b>DUT Type:</b><br>Portable Handset | Page 99 of 176                                                                        |                                        |

**Table 11-25**  
**UMTS Handset Hotspot SAR Data**

| MEASUREMENT RESULTS                                                                               |      |           |         |                             |                       |           |                  |                                                 |                      |            |        |          |                |                   |        |
|---------------------------------------------------------------------------------------------------|------|-----------|---------|-----------------------------|-----------------------|-----------|------------------|-------------------------------------------------|----------------------|------------|--------|----------|----------------|-------------------|--------|
| FREQUENCY                                                                                         |      | Mode      | Service | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Ant State | Power Drift [dB] | Spacing                                         | Device Serial Number | Duty Cycle | Side   | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |
| MHz                                                                                               | Ch.  |           |         |                             |                       |           |                  |                                                 |                      |            |        | (W/kg)   |                | (W/kg)            |        |
| 836.60                                                                                            | 4183 | UMTS 850  | RMC     | 25.5                        | 24.19                 | 0         | -0.09            | 10 mm                                           | 1366M                | 1:1        | back   | 0.367    | 1.352          | 0.496             |        |
| 836.60                                                                                            | 4183 | UMTS 850  | RMC     | 25.5                        | 24.19                 | 0         | 0.02             | 10 mm                                           | 1366M                | 1:1        | front  | 0.223    | 1.352          | 0.301             |        |
| 836.60                                                                                            | 4183 | UMTS 850  | RMC     | 25.5                        | 24.19                 | 0         | 0.02             | 10 mm                                           | 1366M                | 1:1        | bottom | 0.283    | 1.352          | 0.383             |        |
| 836.60                                                                                            | 4183 | UMTS 850  | RMC     | 25.5                        | 24.19                 | 0         | -0.05            | 10 mm                                           | 1366M                | 1:1        | right  | 0.382    | 1.352          | 0.516             | A24    |
| 1732.40                                                                                           | 1412 | UMTS 1750 | RMC     | 21.0                        | 20.26                 | N/A       | 0.00             | 10 mm                                           | 1407M                | 1:1        | back   | 0.352    | 1.186          | 0.417             |        |
| 1732.40                                                                                           | 1412 | UMTS 1750 | RMC     | 21.0                        | 20.26                 | N/A       | -0.03            | 10 mm                                           | 1407M                | 1:1        | front  | 0.151    | 1.186          | 0.179             |        |
| 1712.40                                                                                           | 1312 | UMTS 1750 | RMC     | 21.0                        | 20.18                 | N/A       | -0.02            | 10 mm                                           | 1407M                | 1:1        | bottom | 0.547    | 1.208          | 0.661             |        |
| 1732.40                                                                                           | 1412 | UMTS 1750 | RMC     | 21.0                        | 20.26                 | N/A       | -0.04            | 10 mm                                           | 1407M                | 1:1        | bottom | 0.615    | 1.186          | 0.729             |        |
| 1752.60                                                                                           | 1513 | UMTS 1750 | RMC     | 21.0                        | 19.86                 | N/A       | 0.01             | 10 mm                                           | 1407M                | 1:1        | bottom | 0.662    | 1.300          | 0.861             | A26    |
| 1732.40                                                                                           | 1412 | UMTS 1750 | RMC     | 21.0                        | 20.26                 | N/A       | -0.01            | 10 mm                                           | 1407M                | 1:1        | right  | 0.106    | 1.186          | 0.126             |        |
| 1732.40                                                                                           | 1412 | UMTS 1750 | RMC     | 21.0                        | 20.26                 | N/A       | -0.10            | 10 mm                                           | 1407M                | 1:1        | left   | 0.092    | 1.186          | 0.109             |        |
| 1880.00                                                                                           | 9400 | UMTS 1900 | RMC     | 21.5                        | 20.41                 | N/A       | -0.03            | 10 mm                                           | 1389M                | 1:1        | back   | 0.336    | 1.285          | 0.432             |        |
| 1880.00                                                                                           | 9400 | UMTS 1900 | RMC     | 21.5                        | 20.41                 | N/A       | 0.01             | 10 mm                                           | 1389M                | 1:1        | front  | 0.169    | 1.285          | 0.217             |        |
| 1852.40                                                                                           | 9262 | UMTS 1900 | RMC     | 21.5                        | 20.59                 | N/A       | -0.03            | 10 mm                                           | 1389M                | 1:1        | bottom | 0.671    | 1.233          | 0.827             |        |
| 1880.00                                                                                           | 9400 | UMTS 1900 | RMC     | 21.5                        | 20.41                 | N/A       | -0.06            | 10 mm                                           | 1389M                | 1:1        | bottom | 0.748    | 1.285          | 0.961             |        |
| 1907.60                                                                                           | 9538 | UMTS 1900 | RMC     | 21.5                        | 20.41                 | N/A       | -0.06            | 10 mm                                           | 1389M                | 1:1        | bottom | 0.804    | 1.285          | 1.033             | A28    |
| 1880.00                                                                                           | 9400 | UMTS 1900 | RMC     | 21.5                        | 20.41                 | N/A       | 0.00             | 10 mm                                           | 1389M                | 1:1        | right  | 0.159    | 1.285          | 0.204             |        |
| 1880.00                                                                                           | 9400 | UMTS 1900 | RMC     | 21.5                        | 20.41                 | N/A       | 0.01             | 10 mm                                           | 1389M                | 1:1        | left   | 0.104    | 1.285          | 0.134             |        |
| 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 11-26**  
**LTE Band 71 Handset Hotspot SAR**

| MEASUREMENT RESULTS                                                                               |        |      |                 |                             |                       |           |                  |          |                                                 |            |         |           |         |       |            |          |                |                   |        |     |
|---------------------------------------------------------------------------------------------------|--------|------|-----------------|-----------------------------|-----------------------|-----------|------------------|----------|-------------------------------------------------|------------|---------|-----------|---------|-------|------------|----------|----------------|-------------------|--------|-----|
| FREQUENCY                                                                                         |        | Mode | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Ant State | 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)            |        |     |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 25.5                  | 24.62     | 34               | 0.09     | 0                                               | 1360M      | QPSK    | 1         | 0       | 10 mm | back       | 1:1      | 0.295          | 1.225             | 0.361  |     |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 24.5                  | 23.75     | 34               | 0.00     | 1                                               | 1360M      | QPSK    | 50        | 0       | 10 mm | back       | 1:1      | 0.242          | 1.189             | 0.288  |     |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 25.5                  | 24.62     | 34               | -0.05    | 0                                               | 1360M      | QPSK    | 1         | 0       | 10 mm | front      | 1:1      | 0.240          | 1.225             | 0.294  |     |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 24.5                  | 23.75     | 34               | -0.02    | 1                                               | 1360M      | QPSK    | 50        | 0       | 10 mm | front      | 1:1      | 0.204          | 1.189             | 0.243  |     |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 25.5                  | 24.62     | 34               | -0.13    | 0                                               | 1360M      | QPSK    | 1         | 0       | 10 mm | bottom     | 1:1      | 0.155          | 1.225             | 0.190  |     |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 24.5                  | 23.75     | 34               | 0.00     | 1                                               | 1360M      | QPSK    | 50        | 0       | 10 mm | bottom     | 1:1      | 0.128          | 1.189             | 0.152  |     |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 25.5                  | 24.62     | 34               | -0.08    | 0                                               | 1360M      | QPSK    | 1         | 0       | 10 mm | right      | 1:1      | 0.582          | 1.225             | 0.713  | A30 |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 24.5                  | 23.75     | 34               | -0.02    | 1                                               | 1360M      | QPSK    | 50        | 0       | 10 mm | right      | 1:1      | 0.485          | 1.189             | 0.577  |     |
| 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: A3LSMF900F                      |  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 100 of 176                 |

**Table 11-27**  
**LTE Band 12 Handset Hotspot SAR**

| MEASUREMENT RESULTS                      |       |      |                 |                             |                       |           |                  |          |                      |            |         |           |         |       |            |          |                |                   |        |     |
|------------------------------------------|-------|------|-----------------|-----------------------------|-----------------------|-----------|------------------|----------|----------------------|------------|---------|-----------|---------|-------|------------|----------|----------------|-------------------|--------|-----|
| FREQUENCY                                |       | Mode | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Ant State | 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)            |        |     |
| 707.50                                   | 23095 | Mid  | LTE Band 12     | 10                          | 25.5                  | 24.26     | 32               | 0.18     | 0                    | 1360M      | QPSK    | 1         | 25      | 10 mm | back       | 1:1      | 1.330          | 0.386             |        |     |
| 707.50                                   | 23095 | Mid  | LTE Band 12     | 10                          | 24.5                  | 23.48     | 32               | 0.00     | 1                    | 1360M      | QPSK    | 25        | 0       | 10 mm | back       | 1:1      | 1.238          | 1.265             | 0.301  |     |
| 707.50                                   | 23095 | Mid  | LTE Band 12     | 10                          | 25.5                  | 24.26     | 32               | 0.11     | 0                    | 1360M      | QPSK    | 1         | 25      | 10 mm | front      | 1:1      | 1.260          | 1.330             | 0.346  |     |
| 707.50                                   | 23095 | Mid  | LTE Band 12     | 10                          | 24.5                  | 23.48     | 32               | 0.00     | 1                    | 1360M      | QPSK    | 25        | 0       | 10 mm | front      | 1:1      | 1.211          | 1.265             | 0.267  |     |
| 707.50                                   | 23095 | Mid  | LTE Band 12     | 10                          | 25.5                  | 24.26     | 32               | 0.11     | 0                    | 1360M      | QPSK    | 1         | 25      | 10 mm | bottom     | 1:1      | 1.203          | 1.330             | 0.270  |     |
| 707.50                                   | 23095 | Mid  | LTE Band 12     | 10                          | 24.5                  | 23.48     | 32               | -0.03    | 1                    | 1360M      | QPSK    | 25        | 0       | 10 mm | bottom     | 1:1      | 1.165          | 1.265             | 0.209  |     |
| 707.50                                   | 23095 | Mid  | LTE Band 12     | 10                          | 25.5                  | 24.26     | 32               | 0.12     | 0                    | 1360M      | QPSK    | 1         | 25      | 10 mm | right      | 1:1      | 1.698          | 1.330             | 0.928  | A32 |
| 707.50                                   | 23095 | Mid  | LTE Band 12     | 10                          | 24.5                  | 23.48     | 32               | -0.03    | 1                    | 1360M      | QPSK    | 25        | 0       | 10 mm | right      | 1:1      | 1.588          | 1.265             | 0.744  |     |
| 707.50                                   | 23095 | Mid  | LTE Band 12     | 10                          | 24.5                  | 23.43     | 32               | -0.02    | 1                    | 1360M      | QPSK    | 50        | 0       | 10 mm | right      | 1:1      | 1.571          | 1.279             | 0.730  |     |
| 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 11-28**  
**LTE Band 13 Handset Hotspot SAR**

| MEASUREMENT RESULTS                                                                               |       |      |                 |                             |                       |           |                  |          |                                                 |            |         |           |         |       |            |          |                |                   |        |     |
|---------------------------------------------------------------------------------------------------|-------|------|-----------------|-----------------------------|-----------------------|-----------|------------------|----------|-------------------------------------------------|------------|---------|-----------|---------|-------|------------|----------|----------------|-------------------|--------|-----|
| FREQUENCY                                                                                         |       | Mode | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Ant State | 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)            |        |     |
| 782.00                                                                                            | 23230 | Mid  | LTE Band 13     | 10                          | 25.5                  | 24.02     | 78               | -0.06    | 0                                               | 1389M      | QPSK    | 1         | 49      | 10 mm | back       | 1:1      | 0.311          | 1.406             | 0.437  |     |
| 782.00                                                                                            | 23230 | Mid  | LTE Band 13     | 10                          | 24.5                  | 23.11     | 78               | -0.10    | 1                                               | 1389M      | QPSK    | 25        | 0       | 10 mm | back       | 1:1      | 0.270          | 1.377             | 0.372  |     |
| 782.00                                                                                            | 23230 | Mid  | LTE Band 13     | 10                          | 25.5                  | 24.02     | 78               | 0.01     | 0                                               | 1389M      | QPSK    | 1         | 49      | 10 mm | front      | 1:1      | 0.204          | 1.406             | 0.287  |     |
| 782.00                                                                                            | 23230 | Mid  | LTE Band 13     | 10                          | 24.5                  | 23.11     | 78               | -0.03    | 1                                               | 1389M      | QPSK    | 25        | 0       | 10 mm | front      | 1:1      | 0.176          | 1.377             | 0.242  |     |
| 782.00                                                                                            | 23230 | Mid  | LTE Band 13     | 10                          | 25.5                  | 24.02     | 78               | -0.05    | 0                                               | 1389M      | QPSK    | 1         | 49      | 10 mm | bottom     | 1:1      | 0.214          | 1.406             | 0.301  |     |
| 782.00                                                                                            | 23230 | Mid  | LTE Band 13     | 10                          | 24.5                  | 23.11     | 78               | -0.05    | 1                                               | 1389M      | QPSK    | 25        | 0       | 10 mm | bottom     | 1:1      | 0.182          | 1.377             | 0.251  |     |
| 782.00                                                                                            | 23230 | Mid  | LTE Band 13     | 10                          | 25.5                  | 24.02     | 78               | 0.07     | 0                                               | 1389M      | QPSK    | 1         | 49      | 10 mm | right      | 1:1      | 0.416          | 1.406             | 0.585  | A34 |
| 782.00                                                                                            | 23230 | Mid  | LTE Band 13     | 10                          | 24.5                  | 23.11     | 78               | -0.02    | 1                                               | 1389M      | QPSK    | 25        | 0       | 10 mm | right      | 1:1      | 0.360          | 1.377             | 0.496  |     |
| 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 11-29**  
**LTE Band 14 Handset Hotspot SAR**

| MEASUREMENT RESULTS                                                                               |       |     |             |                 |                             |                       |           |                  |                                                 |                      |            |         |           |         |        |            |          |                |                   |        |
|---------------------------------------------------------------------------------------------------|-------|-----|-------------|-----------------|-----------------------------|-----------------------|-----------|------------------|-------------------------------------------------|----------------------|------------|---------|-----------|---------|--------|------------|----------|----------------|-------------------|--------|
| FREQUENCY                                                                                         |       |     | Mode        | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Ant State | 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 # |
|                                                                                                   |       |     |             |                 |                             |                       |           |                  |                                                 |                      |            |         |           |         |        |            | (W/kg)   |                | (W/kg)            |        |
| 793.00                                                                                            | 23330 | Mid | LTE Band 14 | 10              | 25.5                        | 24.23                 | 32        | -0.05            | 0                                               | 1389M                | QPSK       | 1       | 0         | 10 mm   | back   | 1:1        | 0.313    | 1.340          | 0.419             |        |
| 793.00                                                                                            | 23330 | Mid | LTE Band 14 | 10              | 24.5                        | 23.30                 | 32        | -0.05            | 1                                               | 1389M                | QPSK       | 25      | 12        | 10 mm   | back   | 1:1        | 0.255    | 1.318          | 0.336             |        |
| 793.00                                                                                            | 23330 | Mid | LTE Band 14 | 10              | 25.5                        | 24.23                 | 32        | -0.11            | 0                                               | 1389M                | QPSK       | 1       | 0         | 10 mm   | front  | 1:1        | 0.228    | 1.340          | 0.306             |        |
| 793.00                                                                                            | 23330 | Mid | LTE Band 14 | 10              | 24.5                        | 23.30                 | 32        | -0.02            | 1                                               | 1389M                | QPSK       | 25      | 12        | 10 mm   | front  | 1:1        | 0.188    | 1.318          | 0.248             |        |
| 793.00                                                                                            | 23330 | Mid | LTE Band 14 | 10              | 25.5                        | 24.23                 | 32        | -0.07            | 0                                               | 1389M                | QPSK       | 1       | 0         | 10 mm   | bottom | 1:1        | 0.169    | 1.340          | 0.226             |        |
| 793.00                                                                                            | 23330 | Mid | LTE Band 14 | 10              | 24.5                        | 23.30                 | 32        | -0.02            | 1                                               | 1389M                | QPSK       | 25      | 12        | 10 mm   | bottom | 1:1        | 0.146    | 1.318          | 0.192             |        |
| 793.00                                                                                            | 23330 | Mid | LTE Band 14 | 10              | 25.5                        | 24.23                 | 32        | -0.01            | 0                                               | 1389M                | QPSK       | 1       | 0         | 10 mm   | right  | 1:1        | 0.427    | 1.340          | 0.572             | A36    |
| 793.00                                                                                            | 23330 | Mid | LTE Band 14 | 10              | 24.5                        | 23.30                 | 32        | 0.00             | 1                                               | 1389M                | QPSK       | 25      | 12        | 10 mm   | right  | 1:1        | 0.349    | 1.318          | 0.460             |        |
| 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: A3LSMF900F                      |  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 101 of 176                 |

**Table 11-30**  
**LTE Band 26 (Cell) Handset Hotspot SAR**

| FREQUENCY                                                                                         |       | Mode | Bandwidth [MHz]    | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Ant State | 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)            |        |
| 831.50                                                                                            | 26865 | Mid  | LTE Band 26 (Cell) | 15                          | 25.5                  | 24.22     | 0                | -0.14    | 0                                               | 1366M      | QPSK    | 1         | 0       | 10 mm | 1:1        | 0.315    | 1.343          | 0.423             |        |
| 831.50                                                                                            | 26865 | Mid  | LTE Band 26 (Cell) | 15                          | 24.5                  | 23.27     | 0                | -0.13    | 1                                               | 1366M      | QPSK    | 36        | 37      | 10 mm | 1:1        | 0.277    | 1.327          | 0.368             |        |
| 831.50                                                                                            | 26865 | Mid  | LTE Band 26 (Cell) | 15                          | 25.5                  | 24.22     | 0                | 0.01     | 0                                               | 1366M      | QPSK    | 1         | 0       | 10 mm | 1:1        | 0.158    | 1.343          | 0.212             |        |
| 831.50                                                                                            | 26865 | Mid  | LTE Band 26 (Cell) | 15                          | 24.5                  | 23.27     | 0                | 0.00     | 1                                               | 1366M      | QPSK    | 36        | 37      | 10 mm | 1:1        | 0.145    | 1.327          | 0.192             |        |
| 831.50                                                                                            | 26865 | Mid  | LTE Band 26 (Cell) | 15                          | 25.5                  | 24.22     | 0                | -0.04    | 0                                               | 1366M      | QPSK    | 1         | 0       | 10 mm | 1:1        | 0.202    | 1.343          | 0.271             |        |
| 831.50                                                                                            | 26865 | Mid  | LTE Band 26 (Cell) | 15                          | 24.5                  | 23.27     | 0                | -0.04    | 1                                               | 1366M      | QPSK    | 36        | 37      | 10 mm | 1:1        | 0.189    | 1.327          | 0.251             |        |
| 831.50                                                                                            | 26865 | Mid  | LTE Band 26 (Cell) | 15                          | 25.5                  | 24.22     | 0                | 0.02     | 0                                               | 1366M      | QPSK    | 1         | 0       | 10 mm | 1:1        | 0.479    | 1.343          | 0.643             | A38    |
| 831.50                                                                                            | 26865 | Mid  | LTE Band 26 (Cell) | 15                          | 24.5                  | 23.27     | 0                | -0.01    | 1                                               | 1366M      | QPSK    | 36        | 37      | 10 mm | 1:1        | 0.378    | 1.327          | 0.502             |        |
| 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 11-31**  
**LTE Band 66 (AWS) Handset 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] | 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               | 1720.00   | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 20.5                  | 19.86            | 0.01     | 0                                               | 1362M      | QPSK    | 1         | 0       | 10 mm | back       | 1:1      | 0.282          | 1.159             | 0.327  |     |
| 1 CC Uplink                                                                                       | N/A               | 1720.00   | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 20.5                  | 19.93            | -0.04    | 0                                               | 1362M      | QPSK    | 50        | 0       | 10 mm | back       | 1:1      | 0.289          | 1.140             | 0.329  |     |
| 1 CC Uplink                                                                                       | N/A               | 1720.00   | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 20.5                  | 19.86            | -0.10    | 0                                               | 1362M      | QPSK    | 1         | 0       | 10 mm | front      | 1:1      | 0.157          | 1.159             | 0.182  |     |
| 1 CC Uplink                                                                                       | N/A               | 1720.00   | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 20.5                  | 19.93            | -0.01    | 0                                               | 1362M      | QPSK    | 50        | 0       | 10 mm | front      | 1:1      | 0.165          | 1.140             | 0.188  |     |
| 1 CC Uplink                                                                                       | N/A               | 1720.00   | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 20.5                  | 19.86            | -0.02    | 0                                               | 1362M      | QPSK    | 1         | 0       | 10 mm | bottom     | 1:1      | 0.548          | 1.159             | 0.635  |     |
| 1 CC Uplink                                                                                       | N/A               | 1720.00   | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 20.5                  | 19.93            | -0.09    | 0                                               | 1362M      | QPSK    | 50        | 0       | 10 mm | bottom     | 1:1      | 0.601          | 1.140             | 0.685  |     |
| 1 CC Uplink                                                                                       | N/A               | 1745.00   | 132322 | Mid  | LTE Band 66 (AWS) | 20                          | 20.5                  | 19.84            | -0.12    | 0                                               | 1362M      | QPSK    | 50        | 25      | 10 mm | bottom     | 1:1      | 0.703          | 1.164             | 0.818  |     |
| 1 CC Uplink                                                                                       | N/A               | 1770.00   | 132572 | High | LTE Band 66 (AWS) | 20                          | 20.5                  | 19.82            | -0.07    | 0                                               | 1362M      | QPSK    | 50        | 0       | 10 mm | bottom     | 1:1      | 0.709          | 1.169             | 0.829  |     |
| 1 CC Uplink                                                                                       | N/A               | 1770.00   | 132572 | High | LTE Band 66 (AWS) | 20                          | 20.5                  | 19.84            | -0.11    | 0                                               | 1362M      | QPSK    | 50        | 50      | 10 mm | bottom     | 1:1      | 0.740          | 1.164             | 0.861  |     |
| 1 CC Uplink                                                                                       | N/A               | 1775.00   | 132622 | High | LTE Band 66 (AWS) | 10                          | 20.5                  | 19.64            | -0.06    | 0                                               | 1362M      | QPSK    | 25        | 0       | 10 mm | bottom     | 1:1      | 0.704          | 1.219             | 0.858  |     |
| 1 CC Uplink                                                                                       | N/A               | 1770.00   | 132572 | High | LTE Band 66 (AWS) | 20                          | 20.5                  | 19.84            | -0.11    | 0                                               | 1362M      | QPSK    | 100       | 0       | 10 mm | bottom     | 1:1      | 0.738          | 1.164             | 0.859  |     |
| CA_66C 2 CC Uplink                                                                                | PCC               | 1770.00   | 132572 | High | LTE Band 66 (AWS) | 20                          | 20.5                  | 20.30            | -0.03    | 0                                               | 1362M      | QPSK    | 50        | 0       | 10 mm | bottom     | 1:1      | 0.830          | 1.047             | 0.869  |     |
|                                                                                                   | SCC               | 1750.20   | 132374 | High | LTE Band 66 (AWS) | 20                          |                       |                  |          |                                                 |            |         | 50        | 50      |       |            |          |                |                   |        |     |
| CA_66B 2 CC Uplink                                                                                | PCC               | 1775.00   | 132622 | High | LTE Band 66 (AWS) | 10                          | 20.5                  | 19.90            | -0.05    | 0                                               | 1362M      | QPSK    | 25        | 0       | 10 mm | bottom     | 1:1      | 0.738          | 1.148             | 0.847  |     |
|                                                                                                   | SCC               | 1765.10   | 132523 | High | LTE Band 66 (AWS) | 10                          |                       |                  |          |                                                 |            |         | 25        | 25      |       |            |          |                |                   |        |     |
| 1 CC Uplink                                                                                       | N/A               | 1720.00   | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 20.5                  | 19.86            | -0.14    | 0                                               | 1362M      | QPSK    | 1         | 0       | 10 mm | right      | 1:1      | 0.093          | 1.159             | 0.108  |     |
| 1 CC Uplink                                                                                       | N/A               | 1720.00   | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 20.5                  | 19.93            | -0.02    | 0                                               | 1362M      | QPSK    | 50        | 0       | 10 mm | right      | 1:1      | 0.102          | 1.140             | 0.116  |     |
| 1 CC Uplink                                                                                       | N/A               | 1720.00   | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 20.5                  | 19.86            | -0.02    | 0                                               | 1362M      | QPSK    | 1         | 0       | 10 mm | left       | 1:1      | 0.076          | 1.159             | 0.088  |     |
| 1 CC Uplink                                                                                       | N/A               | 1720.00   | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 20.5                  | 19.93            | -0.06    | 0                                               | 1362M      | QPSK    | 50        | 0       | 10 mm | left       | 1:1      | 0.078          | 1.140             | 0.089  |     |
| CA_66C 2 CC Uplink                                                                                | PCC               | 1770.00   | 132572 | High | LTE Band 66 (AWS) | 20                          | 20.5                  | 20.30            | -0.09    | 0                                               | 1362M      | QPSK    | 50        | 0       | 10 mm | bottom     | 1:1      | 0.831          | 1.047             | 0.870  | A40 |
|                                                                                                   | SCC               | 1750.20   | 132374 | High | LTE Band 66 (AWS) |                             |                       |                  |          |                                                 |            |         | 50        | 50      |       |            |          |                |                   |        |     |
| 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: A3LSMF900F                      |  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 102 of 176                 |

**Table 11-32**  
**LTE Band 25 (PCS) Handset 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)   |                |                   |        |
| 1860.00                                  | 26140 | Low    | LTE Band 25 (PCS) | 20              | 21.0                        | 20.55                 | -0.08            | 0                    | 1389M                | QPSK       | 1       | 99        | 10 mm   | back   | 1:1        | 0.285    | 1.109          | 0.316             |        |
| 1860.00                                  | 26140 | Low    | LTE Band 25 (PCS) | 20              | 21.0                        | 20.63                 | 0.02             | 0                    | 1389M                | QPSK       | 50      | 25        | 10 mm   | back   | 1:1        | 0.282    | 1.089          | 0.307             |        |
| 1860.00                                  | 26140 | Low    | LTE Band 25 (PCS) | 20              | 21.0                        | 20.55                 | -0.03            | 0                    | 1389M                | QPSK       | 1       | 99        | 10 mm   | front  | 1:1        | 0.169    | 1.109          | 0.187             |        |
| 1860.00                                  | 26140 | Low    | LTE Band 25 (PCS) | 20              | 21.0                        | 20.63                 | 0.03             | 0                    | 1389M                | QPSK       | 50      | 25        | 10 mm   | front  | 1:1        | 0.147    | 1.089          | 0.160             |        |
| 1860.00                                  | 26140 | Low    | LTE Band 25 (PCS) | 20              | 21.0                        | 20.55                 | -0.13            | 0                    | 1389M                | QPSK       | 1       | 99        | 10 mm   | bottom | 1:1        | 0.696    | 1.109          | 0.772             |        |
| 1882.50                                  | 26365 | Mid    | LTE Band 25 (PCS) | 20              | 21.0                        | 20.36                 | -0.17            | 0                    | 1389M                | QPSK       | 1       | 0         | 10 mm   | bottom | 1:1        | 0.732    | 1.159          | 0.848             |        |
| 1905.00                                  | 26590 | High   | LTE Band 25 (PCS) | 20              | 21.0                        | 20.33                 | -0.09            | 0                    | 1389M                | QPSK       | 1       | 0         | 10 mm   | bottom | 1:1        | 0.776    | 1.167          | 0.906             | A42    |
| 1860.00                                  | 26140 | Low    | LTE Band 25 (PCS) | 20              | 21.0                        | 20.63                 | -0.07            | 0                    | 1389M                | QPSK       | 50      | 25        | 10 mm   | bottom | 1:1        | 0.685    | 1.089          | 0.746             |        |
| 1860.00                                  | 26140 | Low    | LTE Band 25 (PCS) | 20              | 21.0                        | 20.50                 | -0.17            | 0                    | 1389M                | QPSK       | 100     | 0         | 10 mm   | bottom | 1:1        | 0.679    | 1.122          | 0.762             |        |
| 1860.00                                  | 26140 | Low    | LTE Band 25 (PCS) | 20              | 21.0                        | 20.55                 | -0.08            | 0                    | 1389M                | QPSK       | 1       | 99        | 10 mm   | right  | 1:1        | 0.138    | 1.109          | 0.153             |        |
| 1860.00                                  | 26140 | Low    | LTE Band 25 (PCS) | 20              | 21.0                        | 20.63                 | 0.01             | 0                    | 1389M                | QPSK       | 50      | 25        | 10 mm   | right  | 1:1        | 0.119    | 1.089          | 0.130             |        |
| 1860.00                                  | 26140 | Low    | LTE Band 25 (PCS) | 20              | 21.0                        | 20.55                 | 0.07             | 0                    | 1389M                | QPSK       | 1       | 99        | 10 mm   | left   | 1:1        | 0.084    | 1.109          | 0.093             |        |
| 1860.00                                  | 26140 | Low    | LTE Band 25 (PCS) | 20              | 21.0                        | 20.63                 | 0.05             | 0                    | 1389M                | QPSK       | 50      | 25        | 10 mm   | left   | 1:1        | 0.082    | 1.089          | 0.089             |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT    |       |        |                   |                 |                             |                       |                  |                      |                      |            |         |           |         |        |            |          |                |                   |        |
| Spatial Peak                             |       |        |                   |                 |                             |                       |                  | Body                 |                      |            |         |           |         |        |            |          |                |                   |        |
| Uncontrolled Exposure/General Population |       |        |                   |                 |                             |                       |                  | 1.6 W/kg (mW/g)      |                      |            |         |           |         |        |            |          |                |                   |        |
|                                          |       |        |                   |                 |                             |                       |                  | averaged over 1 gram |                      |            |         |           |         |        |            |          |                |                   |        |

**Table 11-33**  
**LTE Band 30 Handset 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                          | 21.0                  | 20.33            | 0.07     | 0                                               | 1404M      | QPSK    | 1         | 25      | 10 mm | back       | 1:1      | 0.257          | 1.167             | 0.300  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 21.0                  | 20.29            | 0.04     | 0                                               | 1404M      | QPSK    | 25        | 12      | 10 mm | back       | 1:1      | 0.269          | 1.178             | 0.317  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 21.0                  | 20.33            | 0.05     | 0                                               | 1404M      | QPSK    | 1         | 25      | 10 mm | front      | 1:1      | 0.263          | 1.167             | 0.307  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 21.0                  | 20.29            | 0.01     | 0                                               | 1404M      | QPSK    | 25        | 12      | 10 mm | front      | 1:1      | 0.276          | 1.178             | 0.325  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 21.0                  | 20.33            | -0.05    | 0                                               | 1404M      | QPSK    | 1         | 25      | 10 mm | bottom     | 1:1      | 0.648          | 1.167             | 0.756  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 21.0                  | 20.29            | -0.03    | 0                                               | 1404M      | QPSK    | 25        | 12      | 10 mm | bottom     | 1:1      | 0.665          | 1.178             | 0.783  | A44 |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 21.0                  | 20.33            | 0.02     | 0                                               | 1404M      | QPSK    | 1         | 25      | 10 mm | right      | 1:1      | 0.037          | 1.167             | 0.043  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 21.0                  | 20.29            | 0.11     | 0                                               | 1404M      | QPSK    | 25        | 12      | 10 mm | right      | 1:1      | 0.040          | 1.178             | 0.047  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 21.0                  | 20.33            | 0.07     | 0                                               | 1404M      | QPSK    | 1         | 25      | 10 mm | left       | 1:1      | 0.048          | 1.167             | 0.056  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 21.0                  | 20.29            | -0.04    | 0                                               | 1404M      | QPSK    | 25        | 12      | 10 mm | left       | 1:1      | 0.050          | 1.178             | 0.059  |     |
| 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: A3LSMF900F                             |  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                             | <b>DUT Type:</b><br>Portable Handset | Page 103 of 176                                                                       |                                        |

**Table 11-34**  
**LTE Band 7 Handset Hotspot SAR**

| MEASUREMENT RESULTS                                                                               |       |        |            |                 |                             |                       |                  |                                                 |                      |            |         |           |         |        |            |          |                |                   |        |
|---------------------------------------------------------------------------------------------------|-------|--------|------------|-----------------|-----------------------------|-----------------------|------------------|-------------------------------------------------|----------------------|------------|---------|-----------|---------|--------|------------|----------|----------------|-------------------|--------|
| FREQUENCY                                                                                         |       |        | Mode       | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB]                                        | Device Serial Number | Modulation | RB Size | RB Offset | Spacing | Side   | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |
| MHz                                                                                               | Ch.   | (W/kg) |            |                 |                             |                       |                  |                                                 |                      |            |         |           |         |        |            | (W/kg)   |                |                   |        |
| 2510.00                                                                                           | 20850 | Low    | LTE Band 7 | 20              | 20.5                        | 19.74                 | -0.03            | 0                                               | 1390M                | QPSK       | 1       | 0         | 10 mm   | back   | 1:1        | 0.149    | 1.191          | 0.177             |        |
| 2535.00                                                                                           | 21100 | Mid    | LTE Band 7 | 20              | 20.5                        | 19.79                 | 0.05             | 0                                               | 1390M                | QPSK       | 50      | 25        | 10 mm   | back   | 1:1        | 0.151    | 1.178          | 0.178             |        |
| 2510.00                                                                                           | 20850 | Low    | LTE Band 7 | 20              | 20.5                        | 19.74                 | 0.01             | 0                                               | 1390M                | QPSK       | 1       | 0         | 10 mm   | front  | 1:1        | 0.294    | 1.191          | 0.350             |        |
| 2535.00                                                                                           | 21100 | Mid    | LTE Band 7 | 20              | 20.5                        | 19.79                 | -0.06            | 0                                               | 1390M                | QPSK       | 50      | 25        | 10 mm   | front  | 1:1        | 0.237    | 1.178          | 0.279             |        |
| 2510.00                                                                                           | 20850 | Low    | LTE Band 7 | 20              | 20.5                        | 19.74                 | -0.08            | 0                                               | 1390M                | QPSK       | 1       | 0         | 10 mm   | bottom | 1:1        | 0.762    | 1.191          | 0.908             | A46    |
| 2535.00                                                                                           | 21100 | Mid    | LTE Band 7 | 20              | 20.5                        | 19.66                 | -0.07            | 0                                               | 1390M                | QPSK       | 1       | 0         | 10 mm   | bottom | 1:1        | 0.658    | 1.213          | 0.798             |        |
| 2560.00                                                                                           | 21350 | High   | LTE Band 7 | 20              | 20.5                        | 19.40                 | -0.15            | 0                                               | 1390M                | QPSK       | 1       | 0         | 10 mm   | bottom | 1:1        | 0.647    | 1.288          | 0.833             |        |
| 2535.00                                                                                           | 21100 | Mid    | LTE Band 7 | 20              | 20.5                        | 19.79                 | -0.14            | 0                                               | 1390M                | QPSK       | 50      | 25        | 10 mm   | bottom | 1:1        | 0.648    | 1.178          | 0.763             |        |
| 2510.00                                                                                           | 20850 | Low    | LTE Band 7 | 20              | 20.5                        | 19.66                 | 0.07             | 0                                               | 1390M                | QPSK       | 100     | 0         | 10 mm   | bottom | 1:1        | 0.726    | 1.213          | 0.881             |        |
| 2510.00                                                                                           | 20850 | Low    | LTE Band 7 | 20              | 20.5                        | 19.74                 | 0.02             | 0                                               | 1390M                | QPSK       | 1       | 0         | 10 mm   | right  | 1:1        | 0.053    | 1.191          | 0.063             |        |
| 2535.00                                                                                           | 21100 | Mid    | LTE Band 7 | 20              | 20.5                        | 19.79                 | 0.15             | 0                                               | 1390M                | QPSK       | 50      | 25        | 10 mm   | right  | 1:1        | 0.057    | 1.178          | 0.067             |        |
| 2510.00                                                                                           | 20850 | Low    | LTE Band 7 | 20              | 20.5                        | 19.74                 | 0.02             | 0                                               | 1390M                | QPSK       | 1       | 0         | 10 mm   | left   | 1:1        | 0.070    | 1.191          | 0.083             |        |
| 2535.00                                                                                           | 21100 | Mid    | LTE Band 7 | 20              | 20.5                        | 19.79                 | -0.04            | 0                                               | 1390M                | QPSK       | 50      | 25        | 10 mm   | left   | 1:1        | 0.068    | 1.178          | 0.080             |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |       |        |            |                 |                             |                       |                  | Body<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |                      |            |         |           |         |        |            |          |                |                   |        |

**Table 11-35**  
**LTE Band 41 Handset 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)            |        |
| 2680.00                                  | 41490 | High     | LTE Band 41 | 20              | 23.0                        | 21.80                 | -0.09            | 0                                               | 1404M                | QPSK       | 1       | 99        | 10 mm   | back   | 1:1.58     | 0.120    | 1.318          | 0.158             |        |
| 2680.00                                  | 41490 | High     | LTE Band 41 | 20              | 23.0                        | 21.85                 | -0.06            | 0                                               | 1404M                | QPSK       | 50      | 50        | 10 mm   | back   | 1:1.58     | 0.117    | 1.303          | 0.152             |        |
| 2680.00                                  | 41490 | High     | LTE Band 41 | 20              | 23.0                        | 21.80                 | 0.00             | 0                                               | 1404M                | QPSK       | 1       | 99        | 10 mm   | front  | 1:1.58     | 0.164    | 1.318          | 0.216             |        |
| 2680.00                                  | 41490 | High     | LTE Band 41 | 20              | 23.0                        | 21.85                 | -0.02            | 0                                               | 1404M                | QPSK       | 50      | 50        | 10 mm   | front  | 1:1.58     | 0.166    | 1.303          | 0.216             |        |
| 2506.00                                  | 39750 | Low      | LTE Band 41 | 20              | 23.0                        | 21.65                 | 0.00             | 0                                               | 1404M                | QPSK       | 1       | 0         | 10 mm   | bottom | 1:1.58     | 0.615    | 1.365          | 0.839             |        |
| 2549.50                                  | 40185 | Low-Mid  | LTE Band 41 | 20              | 23.0                        | 21.64                 | 0.14             | 0                                               | 1404M                | QPSK       | 1       | 50        | 10 mm   | bottom | 1:1.58     | 0.500    | 1.368          | 0.684             |        |
| 2593.00                                  | 40620 | Mid      | LTE Band 41 | 20              | 23.0                        | 21.65                 | 0.08             | 0                                               | 1404M                | QPSK       | 1       | 0         | 10 mm   | bottom | 1:1.58     | 0.513    | 1.365          | 0.700             |        |
| 2636.50                                  | 41055 | Mid-High | LTE Band 41 | 20              | 23.0                        | 21.74                 | 0.02             | 0                                               | 1404M                | QPSK       | 1       | 0         | 10 mm   | bottom | 1:1.58     | 0.551    | 1.337          | 0.737             |        |
| 2680.00                                  | 41490 | High     | LTE Band 41 | 20              | 23.0                        | 21.80                 | -0.11            | 0                                               | 1404M                | QPSK       | 1       | 99        | 10 mm   | bottom | 1:1.58     | 0.550    | 1.318          | 0.725             |        |
| 2506.00                                  | 39750 | Low      | LTE Band 41 | 20              | 23.0                        | 21.83                 | 0.19             | 0                                               | 1404M                | QPSK       | 50      | 25        | 10 mm   | bottom | 1:1.58     | 0.619    | 1.309          | 0.810             | A48    |
| 2549.50                                  | 40185 | Low-Mid  | LTE Band 41 | 20              | 23.0                        | 21.79                 | 0.13             | 0                                               | 1404M                | QPSK       | 50      | 25        | 10 mm   | bottom | 1:1.58     | 0.518    | 1.321          | 0.684             |        |
| 2593.00                                  | 40620 | Mid      | LTE Band 41 | 20              | 23.0                        | 21.80                 | 0.08             | 0                                               | 1404M                | QPSK       | 50      | 25        | 10 mm   | bottom | 1:1.58     | 0.523    | 1.318          | 0.689             |        |
| 2636.50                                  | 41055 | Mid-High | LTE Band 41 | 20              | 23.0                        | 21.80                 | -0.05            | 0                                               | 1404M                | QPSK       | 50      | 0         | 10 mm   | bottom | 1:1.58     | 0.555    | 1.318          | 0.731             |        |
| 2680.00                                  | 41490 | High     | LTE Band 41 | 20              | 23.0                        | 21.85                 | -0.10            | 0                                               | 1404M                | QPSK       | 50      | 50        | 10 mm   | bottom | 1:1.58     | 0.538    | 1.303          | 0.701             |        |
| 2636.50                                  | 41055 | Mid-High | LTE Band 41 | 20              | 23.0                        | 21.79                 | 0.01             | 0                                               | 1404M                | QPSK       | 100     | 0         | 10 mm   | bottom | 1:1.58     | 0.534    | 1.321          | 0.705             |        |
| 2680.00                                  | 41490 | High     | LTE Band 41 | 20              | 23.0                        | 21.80                 | -0.04            | 0                                               | 1404M                | QPSK       | 1       | 99        | 10 mm   | right  | 1:1.58     | 0.067    | 1.318          | 0.088             |        |
| 2680.00                                  | 41490 | High     | LTE Band 41 | 20              | 23.0                        | 21.85                 | 0.03             | 0                                               | 1404M                | QPSK       | 50      | 50        | 10 mm   | right  | 1:1.58     | 0.064    | 1.303          | 0.083             |        |
| 2680.00                                  | 41490 | High     | LTE Band 41 | 20              | 23.0                        | 21.80                 | -0.02            | 0                                               | 1404M                | QPSK       | 1       | 99        | 10 mm   | left   | 1:1.58     | 0.046    | 1.318          | 0.061             |        |
| 2680.00                                  | 41490 | High     | LTE Band 41 | 20              | 23.0                        | 21.85                 | 0.10             | 0                                               | 1404M                | QPSK       | 50      | 50        | 10 mm   | left   | 1:1.58     | 0.046    | 1.303          | 0.060             |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT    |       |          |             |                 |                             |                       |                  | Body<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |                      |            |         |           |         |        |            |          |                |                   |        |
| Spatial Peak                             |       |          |             |                 |                             |                       |                  |                                                 |                      |            |         |           |         |        |            |          |                |                   |        |
| Uncontrolled Exposure/General Population |       |          |             |                 |                             |                       |                  |                                                 |                      |            |         |           |         |        |            |          |                |                   |        |

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 104 of 176                 |

**Table 11-36**  
**WLAN Handset 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              | 20.0                        | 19.97                 | 0.02             | 10 mm                | 1               | 1385M                | 1                | back  | 99.9           | 0.294                 | -        | 1.007                  | 1.001                       | -                 |        |
| 2412                                     | 1   | 802.11b | DSSS    | 22              | 20.0                        | 19.97                 | 0.06             | 10 mm                | 1               | 1385M                | 1                | front | 99.9           | 0.059                 | -        | 1.007                  | 1.001                       | -                 |        |
| 2412                                     | 1   | 802.11b | DSSS    | 22              | 20.0                        | 19.97                 | -0.13            | 10 mm                | 1               | 1385M                | 1                | top   | 99.9           | 0.328                 | 0.231    | 1.007                  | 1.001                       | 0.233             |        |
| 2412                                     | 1   | 802.11b | DSSS    | 22              | 20.0                        | 19.97                 | 0.12             | 10 mm                | 1               | 1385M                | 1                | right | 99.9           | 0.279                 | -        | 1.007                  | 1.001                       | -                 |        |
| 2412                                     | 1   | 802.11b | DSSS    | 22              | 20.0                        | 19.98                 | 0.04             | 10 mm                | 2               | 1385M                | 1                | back  | 99.9           | 0.428                 | 0.308    | 1.005                  | 1.001                       | 0.310             | A50    |
| 2412                                     | 1   | 802.11b | DSSS    | 22              | 20.0                        | 19.98                 | -0.09            | 10 mm                | 2               | 1385M                | 1                | front | 99.9           | 0.069                 | -        | 1.005                  | 1.001                       | -                 |        |
| 2412                                     | 1   | 802.11b | DSSS    | 22              | 20.0                        | 19.98                 | 0.04             | 10 mm                | 2               | 1385M                | 1                | top   | 99.9           | 0.237                 | -        | 1.005                  | 1.001                       | -                 |        |
| 2412                                     | 1   | 802.11b | DSSS    | 22              | 20.0                        | 19.98                 | -0.02            | 10 mm                | 2               | 1385M                | 1                | left  | 99.9           | 0.114                 | -        | 1.005                  | 1.001                       | -                 |        |
| 5785                                     | 157 | 802.11a | OFDM    | 20              | 18.0                        | 17.97                 | -0.05            | 10 mm                | 1               | 1360M                | 6                | back  | 98.8           | 0.499                 | 0.178    | 1.007                  | 1.013                       | 0.182             | A52    |
| 5785                                     | 157 | 802.11a | OFDM    | 20              | 18.0                        | 17.97                 | 0.04             | 10 mm                | 1               | 1360M                | 6                | front | 98.8           | 0.057                 | -        | 1.007                  | 1.013                       | -                 |        |
| 5785                                     | 157 | 802.11a | OFDM    | 20              | 18.0                        | 17.97                 | 0.05             | 10 mm                | 1               | 1360M                | 6                | top   | 98.8           | 0.091                 | -        | 1.007                  | 1.013                       | -                 |        |
| 5785                                     | 157 | 802.11a | OFDM    | 20              | 18.0                        | 17.97                 | 0.00             | 10 mm                | 1               | 1360M                | 6                | right | 98.8           | 0.147                 | -        | 1.007                  | 1.013                       | -                 |        |
| 5785                                     | 157 | 802.11a | OFDM    | 20              | 18.0                        | 17.86                 | -0.04            | 10 mm                | 2               | 1360M                | 6                | back  | 98.7           | 0.118                 | -        | 1.033                  | 1.013                       | -                 |        |
| 5785                                     | 157 | 802.11a | OFDM    | 20              | 18.0                        | 17.86                 | 0.09             | 10 mm                | 2               | 1360M                | 6                | front | 98.7           | 0.028                 | -        | 1.033                  | 1.013                       | -                 |        |
| 5785                                     | 157 | 802.11a | OFDM    | 20              | 18.0                        | 17.86                 | 0.12             | 10 mm                | 2               | 1360M                | 6                | top   | 98.7           | 0.271                 | 0.098    | 1.033                  | 1.013                       | 0.103             |        |
| 5785                                     | 157 | 802.11a | OFDM    | 20              | 18.0                        | 17.86                 | -0.09            | 10 mm                | 2               | 1360M                | 6                | left  | 98.7           | 0.042                 | -        | 1.033                  | 1.013                       | -                 |        |
| 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**  
**DSS Handset 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    | 16.5                        | 16.18                 | 0.06             | 10 mm                                           | 1385M                | 1                | back  | 77.1           | 0.027    | 1.076                       | 1.297                       | 0.038             | A54    |
| 2402                                                                                              | 0   | Bluetooth | FHSS    | 16.5                        | 16.18                 | 0.04             | 10 mm                                           | 1385M                | 1                | front | 77.1           | 0.004    | 1.076                       | 1.297                       | 0.006             |        |
| 2402                                                                                              | 0   | Bluetooth | FHSS    | 16.5                        | 16.18                 | 0.19             | 10 mm                                           | 1385M                | 1                | top   | 77.1           | 0.020    | 1.076                       | 1.297                       | 0.028             |        |
| 2402                                                                                              | 0   | Bluetooth | FHSS    | 16.5                        | 16.18                 | 0.13             | 10 mm                                           | 1385M                | 1                | right | 77.1           | 0.020    | 1.076                       | 1.297                       | 0.028             |        |
| 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: A3LSMF900F                      |  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 105 of 176                 |

## 11.4 Standalone Phablet SAR Data

**Table 11-38**  
**GPRS/UMTS Handset Phablet SAR Data**

| MEASUREMENT RESULTS                                                                               |      |           |         |                             |                       |                  |                                                      |                      |                 |            |        |           |                |                           |        |
|---------------------------------------------------------------------------------------------------|------|-----------|---------|-----------------------------|-----------------------|------------------|------------------------------------------------------|----------------------|-----------------|------------|--------|-----------|----------------|---------------------------|--------|
| FREQUENCY                                                                                         |      | Mode      | Service | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | Spacing                                              | Device Serial Number | # of GPRS Slots | Duty Cycle | Side   | SAR (10g) | Scaling Factor | Reported SAR (10g) (W/kg) | Plot # |
| MHz                                                                                               | Ch.  |           |         |                             |                       |                  |                                                      |                      |                 |            |        | (W/kg)    |                |                           |        |
| 1880.00                                                                                           | 661  | GSM 1900  | GPRS    | 30.5                        | 28.80                 | -0.09            | 7 mm                                                 | 1404M                | 2               | 1:4.15     | back   | 0.492     | 1.479          | 0.728                     |        |
| 1880.00                                                                                           | 661  | GSM 1900  | GPRS    | 30.5                        | 28.80                 | 0.03             | 0 mm                                                 | 1404M                | 2               | 1:4.15     | front  | 0.707     | 1.479          | 1.046                     |        |
| 1880.00                                                                                           | 661  | GSM 1900  | GPRS    | 30.5                        | 28.80                 | -0.12            | 11 mm                                                | 1404M                | 2               | 1:4.15     | bottom | 0.561     | 1.479          | 0.830                     |        |
| 1880.00                                                                                           | 661  | GSM 1900  | GPRS    | 30.5                        | 28.80                 | -0.04            | 0 mm                                                 | 1404M                | 2               | 1:4.15     | right  | 0.493     | 1.479          | 0.729                     |        |
| 1880.00                                                                                           | 661  | GSM 1900  | GPRS    | 30.5                        | 28.80                 | 0.03             | 0 mm                                                 | 1404M                | 2               | 1:4.15     | left   | 0.203     | 1.479          | 0.300                     |        |
| 1880.00                                                                                           | 661  | GSM 1900  | GPRS    | 27.5                        | 26.33                 | -0.01            | 0 mm                                                 | 1404M                | 2               | 1:4.15     | back   | 1.190     | 1.309          | 1.558                     |        |
| 1850.20                                                                                           | 512  | GSM 1900  | GPRS    | 27.5                        | 26.23                 | -0.19            | 0 mm                                                 | 1404M                | 2               | 1:4.15     | bottom | 1.910     | 1.340          | 2.559                     |        |
| 1880.00                                                                                           | 661  | GSM 1900  | GPRS    | 27.5                        | 26.33                 | -0.19            | 0 mm                                                 | 1404M                | 2               | 1:4.15     | bottom | 2.010     | 1.309          | 2.631                     | A55    |
| 1909.80                                                                                           | 810  | GSM 1900  | GPRS    | 27.5                        | 26.17                 | -0.16            | 0 mm                                                 | 1404M                | 2               | 1:4.15     | bottom | 1.560     | 1.358          | 2.118                     |        |
| 1732.40                                                                                           | 1412 | UMTS 1750 | RMC     | 25.5                        | 24.17                 | -0.03            | 7 mm                                                 | 1362M                | N/A             | 1:1        | back   | 0.751     | 1.358          | 1.020                     |        |
| 1732.40                                                                                           | 1412 | UMTS 1750 | RMC     | 25.5                        | 24.17                 | -0.03            | 0 mm                                                 | 1362M                | N/A             | 1:1        | front  | 0.970     | 1.358          | 1.317                     |        |
| 1732.40                                                                                           | 1412 | UMTS 1750 | RMC     | 25.5                        | 24.17                 | -0.04            | 11 mm                                                | 1362M                | N/A             | 1:1        | bottom | 0.867     | 1.358          | 1.177                     |        |
| 1732.40                                                                                           | 1412 | UMTS 1750 | RMC     | 25.5                        | 24.17                 | -0.06            | 0 mm                                                 | 1362M                | N/A             | 1:1        | right  | 0.723     | 1.358          | 0.982                     |        |
| 1732.40                                                                                           | 1412 | UMTS 1750 | RMC     | 25.5                        | 24.17                 | 0.07             | 0 mm                                                 | 1362M                | N/A             | 1:1        | left   | 0.319     | 1.358          | 0.433                     |        |
| 1732.40                                                                                           | 1412 | UMTS 1750 | RMC     | 20.5                        | 19.80                 | -0.06            | 0 mm                                                 | 1407M                | N/A             | 1:1        | back   | 0.989     | 1.175          | 1.162                     |        |
| 1712.40                                                                                           | 1312 | UMTS 1750 | RMC     | 20.5                        | 19.63                 | -0.14            | 0 mm                                                 | 1407M                | N/A             | 1:1        | bottom | 2.060     | 1.222          | 2.517                     |        |
| 1732.40                                                                                           | 1412 | UMTS 1750 | RMC     | 20.5                        | 19.80                 | -0.16            | 0 mm                                                 | 1407M                | N/A             | 1:1        | bottom | 2.160     | 1.175          | 2.538                     | A56    |
| 1752.60                                                                                           | 1513 | UMTS 1750 | RMC     | 20.5                        | 19.45                 | 0.14             | 0 mm                                                 | 1407M                | N/A             | 1:1        | bottom | 2.000     | 1.274          | 2.548                     |        |
| 1880.00                                                                                           | 9400 | UMTS 1900 | RMC     | 25.5                        | 24.32                 | -0.07            | 7 mm                                                 | 1404M                | N/A             | 1:1        | back   | 0.655     | 1.312          | 0.859                     |        |
| 1880.00                                                                                           | 9400 | UMTS 1900 | RMC     | 25.5                        | 24.32                 | -0.13            | 0 mm                                                 | 1404M                | N/A             | 1:1        | front  | 0.914     | 1.312          | 1.199                     |        |
| 1880.00                                                                                           | 9400 | UMTS 1900 | RMC     | 25.5                        | 24.32                 | -0.05            | 11 mm                                                | 1404M                | N/A             | 1:1        | bottom | 0.723     | 1.312          | 0.949                     |        |
| 1880.00                                                                                           | 9400 | UMTS 1900 | RMC     | 25.5                        | 24.32                 | 0.16             | 0 mm                                                 | 1404M                | N/A             | 1:1        | right  | 0.585     | 1.312          | 0.768                     |        |
| 1880.00                                                                                           | 9400 | UMTS 1900 | RMC     | 25.5                        | 24.32                 | 0.00             | 0 mm                                                 | 1404M                | N/A             | 1:1        | left   | 0.256     | 1.312          | 0.336                     |        |
| 1880.00                                                                                           | 9400 | UMTS 1900 | RMC     | 21.0                        | 19.68                 | -0.09            | 0 mm                                                 | 1404M                | N/A             | 1:1        | back   | 1.170     | 1.355          | 1.585                     |        |
| 1852.40                                                                                           | 9262 | UMTS 1900 | RMC     | 21.0                        | 19.63                 | -0.13            | 0 mm                                                 | 1404M                | N/A             | 1:1        | bottom | 2.040     | 1.371          | 2.797                     |        |
| 1880.00                                                                                           | 9400 | UMTS 1900 | RMC     | 21.0                        | 19.68                 | -0.09            | 0 mm                                                 | 1404M                | N/A             | 1:1        | bottom | 2.270     | 1.355          | 3.076                     | A57    |
| 1907.60                                                                                           | 9538 | UMTS 1900 | RMC     | 21.0                        | 19.55                 | -0.11            | 0 mm                                                 | 1404M                | N/A             | 1:1        | bottom | 2.160     | 1.396          | 3.015                     |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |      |           |         |                             |                       |                  | Phablet<br>4.0 W/kg (mW/g)<br>averaged over 10 grams |                      |                 |            |        |           |                |                           |        |

|                                                |                                                                                                                                   |                                      |                                                                                       |                                        |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMF900F                             |  <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                                                                           | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 106 of 176                        |

**Table 11-39**  
**LTE Band 66 (AWS) Handset Phablet 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 (10g) | Scaling Factor | Reported SAR (10g) | Plot # |     |
| MHz                                                                                               | Ch.    |      |                   |                             |                       |                  |          |                                                      |            |         |           |         |       |            | (W/kg)    |                | (W/kg)             |        |     |
| 1720.00                                                                                           | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 25.0                  | 24.24            | 0.10     | 0                                                    | 1362M      | QPSK    | 1         | 0       | 7 mm  | back       | 1:1       | 0.795          | 1.191              | 0.947  |     |
| 1720.00                                                                                           | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 24.0                  | 23.33            | 0.07     | 1                                                    | 1362M      | QPSK    | 50        | 0       | 7 mm  | back       | 1:1       | 0.673          | 1.167              | 0.785  |     |
| 1720.00                                                                                           | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 25.0                  | 24.24            | -0.05    | 0                                                    | 1362M      | QPSK    | 1         | 0       | 0 mm  | front      | 1:1       | 1.070          | 1.191              | 1.274  |     |
| 1720.00                                                                                           | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 24.0                  | 23.33            | -0.07    | 1                                                    | 1362M      | QPSK    | 50        | 0       | 0 mm  | front      | 1:1       | 0.883          | 1.167              | 1.030  |     |
| 1720.00                                                                                           | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 25.0                  | 24.24            | -0.02    | 0                                                    | 1362M      | QPSK    | 1         | 0       | 11 mm | bottom     | 1:1       | 0.792          | 1.191              | 0.943  |     |
| 1720.00                                                                                           | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 24.0                  | 23.33            | -0.03    | 1                                                    | 1362M      | QPSK    | 50        | 0       | 11 mm | bottom     | 1:1       | 0.710          | 1.167              | 0.829  |     |
| 1720.00                                                                                           | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 25.0                  | 24.24            | -0.07    | 0                                                    | 1362M      | QPSK    | 1         | 0       | 0 mm  | right      | 1:1       | 0.784          | 1.191              | 0.934  |     |
| 1720.00                                                                                           | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 24.0                  | 23.33            | -0.06    | 1                                                    | 1362M      | QPSK    | 50        | 0       | 0 mm  | right      | 1:1       | 0.669          | 1.167              | 0.781  |     |
| 1720.00                                                                                           | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 25.0                  | 24.24            | 0.05     | 0                                                    | 1362M      | QPSK    | 1         | 0       | 0 mm  | left       | 1:1       | 0.392          | 1.191              | 0.467  |     |
| 1720.00                                                                                           | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 24.0                  | 23.33            | 0.07     | 1                                                    | 1362M      | QPSK    | 50        | 0       | 0 mm  | left       | 1:1       | 0.329          | 1.167              | 0.384  |     |
| 1720.00                                                                                           | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 19.8                  | 18.84            | -0.09    | 0                                                    | 1362M      | QPSK    | 1         | 0       | 0 mm  | back       | 1:1       | 0.893          | 1.247              | 1.114  |     |
| 1720.00                                                                                           | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 19.8                  | 18.97            | 0.00     | 0                                                    | 1362M      | QPSK    | 50        | 0       | 0 mm  | back       | 1:1       | 0.945          | 1.211              | 1.144  |     |
| 1720.00                                                                                           | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 19.8                  | 18.84            | -0.09    | 0                                                    | 1362M      | QPSK    | 1         | 0       | 0 mm  | bottom     | 1:1       | 2.020          | 1.247              | 2.519  |     |
| 1745.00                                                                                           | 132322 | Mid  | LTE Band 66 (AWS) | 20                          | 19.8                  | 18.58            | -0.16    | 0                                                    | 1362M      | QPSK    | 1         | 99      | 0 mm  | bottom     | 1:1       | 2.040          | 1.324              | 2.701  |     |
| 1770.00                                                                                           | 132572 | High | LTE Band 66 (AWS) | 20                          | 19.8                  | 18.63            | -0.11    | 0                                                    | 1362M      | QPSK    | 1         | 0       | 0 mm  | bottom     | 1:1       | 2.050          | 1.309              | 2.683  |     |
| 1720.00                                                                                           | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 19.8                  | 18.97            | -0.10    | 0                                                    | 1362M      | QPSK    | 50        | 0       | 0 mm  | bottom     | 1:1       | 2.110          | 1.211              | 2.555  |     |
| 1745.00                                                                                           | 132322 | Mid  | LTE Band 66 (AWS) | 20                          | 19.8                  | 18.75            | -0.07    | 0                                                    | 1362M      | QPSK    | 50        | 25      | 0 mm  | bottom     | 1:1       | 2.150          | 1.274              | 2.739  | A58 |
| 1770.00                                                                                           | 132572 | High | LTE Band 66 (AWS) | 20                          | 19.8                  | 18.78            | -0.08    | 0                                                    | 1362M      | QPSK    | 50        | 0       | 0 mm  | bottom     | 1:1       | 2.130          | 1.265              | 2.694  |     |
| 1745.00                                                                                           | 132322 | Mid  | LTE Band 66 (AWS) | 20                          | 19.8                  | 18.83            | -0.15    | 0                                                    | 1362M      | QPSK    | 100       | 0       | 0 mm  | bottom     | 1:1       | 2.130          | 1.250              | 2.663  |     |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |        |      |                   |                             |                       |                  |          | Phablet<br>4.0 W/kg (mW/g)<br>averaged over 10 grams |            |         |           |         |       |            |           |                |                    |        |     |

**Table 11-40**  
**LTE Band 25 (PCS) Handset Phablet 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 (10g) | Scaling Factor | Reported SAR (10g) | Plot # |     |
| MHz                                                                                               | Ch.   |      |                   |                             |                       |                  |          |                                                      |            |         |           |         |       |            | (W/kg)    |                | (W/kg)             |        |     |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20                          | 25.0                  | 24.10            | -0.01    | 0                                                    | 1362M      | QPSK    | 1         | 0       | 7 mm  | back       | 1:1       | 1.050          | 1.230              | 1.292  |     |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20                          | 24.0                  | 23.20            | 0.08     | 1                                                    | 1362M      | QPSK    | 50        | 50      | 7 mm  | back       | 1:1       | 0.863          | 1.202              | 1.037  |     |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20                          | 25.0                  | 24.10            | -0.01    | 0                                                    | 1362M      | QPSK    | 1         | 0       | 0 mm  | front      | 1:1       | 1.050          | 1.230              | 1.292  |     |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20                          | 24.0                  | 23.20            | 0.04     | 1                                                    | 1362M      | QPSK    | 50        | 50      | 0 mm  | front      | 1:1       | 0.931          | 1.202              | 1.119  |     |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20                          | 25.0                  | 24.10            | -0.09    | 0                                                    | 1362M      | QPSK    | 1         | 0       | 11 mm | bottom     | 1:1       | 0.867          | 1.230              | 1.066  |     |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20                          | 24.0                  | 23.20            | -0.08    | 1                                                    | 1362M      | QPSK    | 50        | 50      | 11 mm | bottom     | 1:1       | 0.730          | 1.202              | 0.877  |     |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20                          | 25.0                  | 24.10            | 0.01     | 0                                                    | 1362M      | QPSK    | 1         | 0       | 0 mm  | right      | 1:1       | 0.618          | 1.230              | 0.760  |     |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20                          | 24.0                  | 23.20            | -0.03    | 1                                                    | 1362M      | QPSK    | 50        | 50      | 0 mm  | right      | 1:1       | 0.543          | 1.202              | 0.653  |     |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20                          | 25.0                  | 24.10            | -0.04    | 0                                                    | 1362M      | QPSK    | 1         | 0       | 0 mm  | left       | 1:1       | 0.334          | 1.230              | 0.411  |     |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20                          | 24.0                  | 23.20            | 0.04     | 1                                                    | 1362M      | QPSK    | 50        | 50      | 0 mm  | left       | 1:1       | 0.303          | 1.202              | 0.364  |     |
| 1905.00                                                                                           | 26590 | High | LTE Band 25 (PCS) | 20                          | 20.5                  | 20.49            | 0.02     | 0                                                    | 1362M      | QPSK    | 1         | 0       | 0 mm  | back       | 1:1       | 1.550          | 1.002              | 1.553  |     |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20                          | 20.5                  | 20.41            | 0.00     | 0                                                    | 1362M      | QPSK    | 50        | 50      | 0 mm  | back       | 1:1       | 1.540          | 1.021              | 1.572  |     |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20                          | 20.5                  | 20.36            | -0.19    | 0                                                    | 1362M      | QPSK    | 1         | 99      | 0 mm  | bottom     | 1:1       | 2.700          | 1.033              | 2.789  |     |
| 1882.50                                                                                           | 26365 | Mid  | LTE Band 25 (PCS) | 20                          | 20.5                  | 20.16            | -0.02    | 0                                                    | 1362M      | QPSK    | 1         | 0       | 0 mm  | bottom     | 1:1       | 2.790          | 1.081              | 3.016  |     |
| 1905.00                                                                                           | 26590 | High | LTE Band 25 (PCS) | 20                          | 20.5                  | 20.49            | -0.14    | 0                                                    | 1362M      | QPSK    | 1         | 0       | 0 mm  | bottom     | 1:1       | 2.820          | 1.002              | 2.826  |     |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20                          | 20.5                  | 20.41            | -0.12    | 0                                                    | 1362M      | QPSK    | 50        | 50      | 0 mm  | bottom     | 1:1       | 2.750          | 1.021              | 2.808  |     |
| 1882.50                                                                                           | 26365 | Mid  | LTE Band 25 (PCS) | 20                          | 20.5                  | 20.38            | -0.16    | 0                                                    | 1362M      | QPSK    | 50        | 0       | 0 mm  | bottom     | 1:1       | 2.900          | 1.028              | 2.981  | A59 |
| 1905.00                                                                                           | 26590 | High | LTE Band 25 (PCS) | 20                          | 20.5                  | 20.37            | -0.18    | 0                                                    | 1362M      | QPSK    | 50        | 25      | 0 mm  | bottom     | 1:1       | 2.860          | 1.030              | 2.946  |     |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20                          | 20.5                  | 20.29            | -0.18    | 0                                                    | 1362M      | QPSK    | 100       | 0       | 0 mm  | bottom     | 1:1       | 2.740          | 1.050              | 2.877  |     |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |       |      |                   |                             |                       |                  |          | Phablet<br>4.0 W/kg (mW/g)<br>averaged over 10 grams |            |         |           |         |       |            |           |                |                    |        |     |

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 107 of 176                 |

**Table 11-41**  
**LTE Band 30 Handset Phablet 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 (10g) | Scaling Factor | Reported SAR (10g) | Plot # |
| MHz                                                                                               | Ch.   | (W/kg) |             |                 |                             |                       |                  |                                                      |                      |            |         |           |         |        |            | (W/kg)    |                |                    |        |
| 2310.00                                                                                           | 27710 | Mid    | LTE Band 30 | 10              | 25.0                        | 24.33                 | -0.02            | 0                                                    | 1404M                | QPSK       | 1       | 0         | 7 mm    | back   | 1:1        | 0.475     | 1.167          | 0.554              |        |
| 2310.00                                                                                           | 27710 | Mid    | LTE Band 30 | 10              | 24.0                        | 23.35                 | -0.03            | 1                                                    | 1404M                | QPSK       | 25      | 12        | 7 mm    | back   | 1:1        | 0.408     | 1.161          | 0.474              |        |
| 2310.00                                                                                           | 27710 | Mid    | LTE Band 30 | 10              | 25.0                        | 24.33                 | 0.06             | 0                                                    | 1404M                | QPSK       | 1       | 0         | 0 mm    | front  | 1:1        | 1.640     | 1.167          | 1.914              |        |
| 2310.00                                                                                           | 27710 | Mid    | LTE Band 30 | 10              | 24.0                        | 23.35                 | 0.07             | 1                                                    | 1404M                | QPSK       | 25      | 12        | 0 mm    | front  | 1:1        | 1.370     | 1.161          | 1.591              |        |
| 2310.00                                                                                           | 27710 | Mid    | LTE Band 30 | 10              | 25.0                        | 24.33                 | 0.07             | 0                                                    | 1404M                | QPSK       | 1       | 0         | 11 mm   | bottom | 1:1        | 0.635     | 1.167          | 0.741              |        |
| 2310.00                                                                                           | 27710 | Mid    | LTE Band 30 | 10              | 24.0                        | 23.35                 | -0.02            | 1                                                    | 1404M                | QPSK       | 25      | 12        | 11 mm   | bottom | 1:1        | 0.529     | 1.161          | 0.614              |        |
| 2310.00                                                                                           | 27710 | Mid    | LTE Band 30 | 10              | 25.0                        | 24.33                 | -0.03            | 0                                                    | 1404M                | QPSK       | 1       | 0         | 0 mm    | right  | 1:1        | 0.385     | 1.167          | 0.449              |        |
| 2310.00                                                                                           | 27710 | Mid    | LTE Band 30 | 10              | 24.0                        | 23.35                 | -0.08            | 1                                                    | 1404M                | QPSK       | 25      | 12        | 0 mm    | right  | 1:1        | 0.313     | 1.161          | 0.363              |        |
| 2310.00                                                                                           | 27710 | Mid    | LTE Band 30 | 10              | 25.0                        | 24.33                 | 0.03             | 0                                                    | 1404M                | QPSK       | 1       | 0         | 0 mm    | left   | 1:1        | 0.374     | 1.167          | 0.436              |        |
| 2310.00                                                                                           | 27710 | Mid    | LTE Band 30 | 10              | 24.0                        | 23.35                 | 0.14             | 1                                                    | 1404M                | QPSK       | 25      | 12        | 0 mm    | left   | 1:1        | 0.314     | 1.161          | 0.365              |        |
| 2310.00                                                                                           | 27710 | Mid    | LTE Band 30 | 10              | 21.0                        | 20.33                 | 0.15             | 0                                                    | 1404M                | QPSK       | 1       | 25        | 0 mm    | back   | 1:1        | 0.841     | 1.167          | 0.981              |        |
| 2310.00                                                                                           | 27710 | Mid    | LTE Band 30 | 10              | 21.0                        | 20.29                 | -0.05            | 0                                                    | 1404M                | QPSK       | 25      | 12        | 0 mm    | back   | 1:1        | 0.868     | 1.178          | 1.023              |        |
| 2310.00                                                                                           | 27710 | Mid    | LTE Band 30 | 10              | 21.0                        | 20.33                 | -0.10            | 0                                                    | 1404M                | QPSK       | 1       | 25        | 0 mm    | bottom | 1:1        | 2.260     | 1.167          | 2.637              |        |
| 2310.00                                                                                           | 27710 | Mid    | LTE Band 30 | 10              | 21.0                        | 20.29                 | -0.05            | 0                                                    | 1404M                | QPSK       | 25      | 12        | 0 mm    | bottom | 1:1        | 2.400     | 1.178          | 2.827              | A60    |
| 2310.00                                                                                           | 27710 | Mid    | LTE Band 30 | 10              | 21.0                        | 20.26                 | -0.05            | 0                                                    | 1404M                | QPSK       | 50      | 0         | 0 mm    | bottom | 1:1        | 2.370     | 1.186          | 2.811              |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |       |        |             |                 |                             |                       |                  | Phablet<br>4.0 W/kg (mW/g)<br>averaged over 10 grams |                      |            |         |           |         |        |            |           |                |                    |        |

**Table 11-42**  
**LTE Band 7 Handset Phablet 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 (10g) | Scaling Factor | Reported SAR (10g) | Plot # |
| MHz                                                                                               | Ch.   |      |            |                 |                             |                       |                  |          |                                                      |            |         |           |         |        |            | (W/kg)    |                | (W/kg)             |        |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7 | 20              | 24.6                        | 24.17                 | -0.02            | 0        | 1404M                                                | QPSK       | 1       | 99        | 7 mm    | back   | 1:1        | 0.425     | 1.104          | 0.469              |        |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7 | 20              | 23.6                        | 23.22                 | 0.11             | 1        | 1404M                                                | QPSK       | 50      | 0         | 7 mm    | back   | 1:1        | 0.272     | 1.091          | 0.297              |        |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7 | 20              | 24.6                        | 24.17                 | -0.02            | 0        | 1404M                                                | QPSK       | 1       | 99        | 0 mm    | front  | 1:1        | 1.810     | 1.104          | 1.998              | A61    |
| 2535.00                                                                                           | 21100 | Mid  | LTE Band 7 | 20              | 24.6                        | 24.12                 | 0.09             | 0        | 1404M                                                | QPSK       | 1       | 0         | 0 mm    | front  | 1:1        | 1.720     | 1.117          | 1.921              |        |
| 2560.00                                                                                           | 21350 | High | LTE Band 7 | 20              | 24.6                        | 24.07                 | 0.00             | 0        | 1404M                                                | QPSK       | 1       | 0         | 0 mm    | front  | 1:1        | 1.500     | 1.130          | 1.695              |        |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7 | 20              | 23.6                        | 23.22                 | 0.00             | 1        | 1404M                                                | QPSK       | 50      | 0         | 0 mm    | front  | 1:1        | 1.290     | 1.091          | 1.407              |        |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7 | 20              | 24.6                        | 24.17                 | -0.10            | 0        | 1404M                                                | QPSK       | 1       | 99        | 11 mm   | bottom | 1:1        | 0.777     | 1.104          | 0.858              |        |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7 | 20              | 23.6                        | 23.22                 | -0.11            | 1        | 1404M                                                | QPSK       | 50      | 0         | 11 mm   | bottom | 1:1        | 0.529     | 1.091          | 0.577              |        |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7 | 20              | 24.6                        | 24.17                 | -0.04            | 0        | 1404M                                                | QPSK       | 1       | 99        | 0 mm    | right  | 1:1        | 0.633     | 1.104          | 0.699              |        |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7 | 20              | 23.6                        | 23.22                 | -0.07            | 1        | 1404M                                                | QPSK       | 50      | 0         | 0 mm    | right  | 1:1        | 0.423     | 1.091          | 0.461              |        |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7 | 20              | 24.6                        | 24.17                 | -0.07            | 0        | 1404M                                                | QPSK       | 1       | 99        | 0 mm    | left   | 1:1        | 0.717     | 1.104          | 0.792              |        |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7 | 20              | 23.6                        | 23.22                 | -0.15            | 1        | 1404M                                                | QPSK       | 50      | 0         | 0 mm    | left   | 1:1        | 0.518     | 1.091          | 0.565              |        |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7 | 20              | 19.5                        | 18.78                 | -0.06            | 0        | 1404M                                                | QPSK       | 1       | 99        | 0 mm    | back   | 1:1        | 0.559     | 1.180          | 0.660              |        |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7 | 20              | 19.5                        | 18.97                 | 0.00             | 0        | 1404M                                                | QPSK       | 50      | 50        | 0 mm    | back   | 1:1        | 0.527     | 1.130          | 0.596              |        |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7 | 20              | 19.5                        | 18.78                 | -0.01            | 0        | 1404M                                                | QPSK       | 1       | 99        | 0 mm    | bottom | 1:1        | 1.680     | 1.180          | 1.982              |        |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7 | 20              | 19.5                        | 18.97                 | -0.01            | 0        | 1404M                                                | QPSK       | 50      | 50        | 0 mm    | bottom | 1:1        | 1.740     | 1.130          | 1.966              |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |       |      |            |                 |                             |                       |                  |          | Phablet<br>4.0 W/kg (mW/g)<br>averaged over 10 grams |            |         |           |         |        |            |           |                |                    |        |

|                                                |                                                                                     |                                      |                                                                                       |                                        |
|------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMF900F                             |  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                             | <b>DUT Type:</b><br>Portable Handset | Page 108 of 176                                                                       |                                        |

**Table 11-43**  
**LTE Band 41 Handset Phablet 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 (10g) | Scaling Factor | Reported SAR (10g) | Plot # |     |
| MHz                                                   | Ch.   |          |                 |                             |                       |                  |          |                                                      |            |         |           |         |       |            | (W/kg)    |                | (W/kg)             |        |     |
| 2636.50                                               | 41055 | Mid-High | LTE Band 41     | 20                          | 25.0                  | 24.35            | -0.06    | 0                                                    | 1404M      | QPSK    | 1         | 0       | 7 mm  | back       | 1:1.58    | 0.138          | 1.161              | 0.160  |     |
| 2636.50                                               | 41055 | Mid-High | LTE Band 41     | 20                          | 24.0                  | 23.52            | -0.08    | 1                                                    | 1404M      | QPSK    | 50        | 0       | 7 mm  | back       | 1:1.58    | 0.113          | 1.117              | 0.126  |     |
| 2636.50                                               | 41055 | Mid-High | LTE Band 41     | 20                          | 25.0                  | 24.35            | -0.12    | 0                                                    | 1404M      | QPSK    | 1         | 0       | 0 mm  | front      | 1:1.58    | 1.120          | 1.161              | 1.300  |     |
| 2636.50                                               | 41055 | Mid-High | LTE Band 41     | 20                          | 24.0                  | 23.52            | -0.02    | 1                                                    | 1404M      | QPSK    | 50        | 0       | 0 mm  | front      | 1:1.58    | 0.908          | 1.117              | 1.014  |     |
| 2636.50                                               | 41055 | Mid-High | LTE Band 41     | 20                          | 25.0                  | 24.35            | -0.07    | 0                                                    | 1404M      | QPSK    | 1         | 0       | 11 mm | bottom     | 1:1.58    | 0.350          | 1.161              | 0.406  |     |
| 2636.50                                               | 41055 | Mid-High | LTE Band 41     | 20                          | 24.0                  | 23.52            | -0.12    | 1                                                    | 1404M      | QPSK    | 50        | 0       | 11 mm | bottom     | 1:1.58    | 0.292          | 1.117              | 0.326  |     |
| 2636.50                                               | 41055 | Mid-High | LTE Band 41     | 20                          | 25.0                  | 24.35            | -0.05    | 0                                                    | 1404M      | QPSK    | 1         | 0       | 0 mm  | right      | 1:1.58    | 0.488          | 1.161              | 0.567  |     |
| 2636.50                                               | 41055 | Mid-High | LTE Band 41     | 20                          | 24.0                  | 23.52            | -0.03    | 1                                                    | 1404M      | QPSK    | 50        | 0       | 0 mm  | right      | 1:1.58    | 0.396          | 1.117              | 0.442  |     |
| 2636.50                                               | 41055 | Mid-High | LTE Band 41     | 20                          | 25.0                  | 24.35            | -0.19    | 0                                                    | 1404M      | QPSK    | 1         | 0       | 0 mm  | left       | 1:1.58    | 0.254          | 1.161              | 0.295  |     |
| 2636.50                                               | 41055 | Mid-High | LTE Band 41     | 20                          | 24.0                  | 23.52            | -0.18    | 1                                                    | 1404M      | QPSK    | 50        | 0       | 0 mm  | left       | 1:1.58    | 0.193          | 1.117              | 0.216  |     |
| 2549.50                                               | 40185 | Low-Mid  | LTE Band 41     | 20                          | 21.5                  | 20.25            | -0.06    | 0                                                    | 1404M      | QPSK    | 1         | 0       | 0 mm  | back       | 1:1.58    | 0.477          | 1.334              | 0.636  |     |
| 2636.50                                               | 41055 | Mid-High | LTE Band 41     | 20                          | 21.5                  | 20.27            | 0.12     | 0                                                    | 1404M      | QPSK    | 50        | 0       | 0 mm  | back       | 1:1.58    | 0.451          | 1.327              | 0.598  |     |
| 2506.00                                               | 39750 | Low      | LTE Band 41     | 20                          | 21.5                  | 20.17            | 0.07     | 0                                                    | 1404M      | QPSK    | 1         | 0       | 0 mm  | bottom     | 1:1.58    | 1.290          | 1.358              | 1.752  |     |
| 2549.50                                               | 40185 | Low-Mid  | LTE Band 41     | 20                          | 21.5                  | 20.25            | 0.05     | 0                                                    | 1404M      | QPSK    | 1         | 0       | 0 mm  | bottom     | 1:1.58    | 1.320          | 1.334              | 1.761  |     |
| 2593.00                                               | 40620 | Mid      | LTE Band 41     | 20                          | 21.5                  | 20.05            | 0.05     | 0                                                    | 1404M      | QPSK    | 1         | 0       | 0 mm  | bottom     | 1:1.58    | 1.420          | 1.396              | 1.982  |     |
| 2636.50                                               | 41055 | Mid-High | LTE Band 41     | 20                          | 21.5                  | 20.18            | 0.00     | 0                                                    | 1404M      | QPSK    | 1         | 0       | 0 mm  | bottom     | 1:1.58    | 1.640          | 1.355              | 2.222  |     |
| 2680.00                                               | 41490 | High     | LTE Band 41     | 20                          | 21.5                  | 20.10            | -0.06    | 0                                                    | 1404M      | QPSK    | 1         | 99      | 0 mm  | bottom     | 1:1.58    | 1.910          | 1.380              | 2.636  | A62 |
| 2506.00                                               | 39750 | Low      | LTE Band 41     | 20                          | 21.5                  | 20.25            | 0.10     | 0                                                    | 1404M      | QPSK    | 50        | 0       | 0 mm  | bottom     | 1:1.58    | 1.330          | 1.334              | 1.774  |     |
| 2549.50                                               | 40185 | Low-Mid  | LTE Band 41     | 20                          | 21.5                  | 20.26            | 0.15     | 0                                                    | 1404M      | QPSK    | 50        | 0       | 0 mm  | bottom     | 1:1.58    | 1.390          | 1.330              | 1.849  |     |
| 2593.00                                               | 40620 | Mid      | LTE Band 41     | 20                          | 21.5                  | 20.25            | 0.11     | 0                                                    | 1404M      | QPSK    | 50        | 0       | 0 mm  | bottom     | 1:1.58    | 1.500          | 1.334              | 2.001  |     |
| 2636.50                                               | 41055 | Mid-High | LTE Band 41     | 20                          | 21.5                  | 20.27            | 0.04     | 0                                                    | 1404M      | QPSK    | 50        | 0       | 0 mm  | bottom     | 1:1.58    | 1.740          | 1.327              | 2.309  |     |
| 2680.00                                               | 41490 | High     | LTE Band 41     | 20                          | 21.5                  | 20.23            | -0.04    | 0                                                    | 1404M      | QPSK    | 50        | 0       | 0 mm  | bottom     | 1:1.58    | 1.870          | 1.340              | 2.506  |     |
| 2506.00                                               | 39750 | Low      | LTE Band 41     | 20                          | 21.5                  | 20.24            | 0.09     | 0                                                    | 1404M      | QPSK    | 100       | 0       | 0 mm  | bottom     | 1:1.58    | 1.350          | 1.337              | 1.805  |     |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak |       |          |                 |                             |                       |                  |          | Phablet<br>4.0 W/kg (mW/g)<br>averaged over 10 grams |            |         |           |         |       |            |           |                |                    |        |     |
| Uncontrolled Exposure/General Population              |       |          |                 |                             |                       |                  |          |                                                      |            |         |           |         |       |            |           |                |                    |        |     |

**Table 11-44**  
**WLAN Handset Phablet SAR**

| MEASUREMENT RESULTS                                                                               |     |         |         |                 |                             |                       |                  |                                                      |                 |                      |                  |       |                |                       |           |                        |                             |                    |        |
|---------------------------------------------------------------------------------------------------|-----|---------|---------|-----------------|-----------------------------|-----------------------|------------------|------------------------------------------------------|-----------------|----------------------|------------------|-------|----------------|-----------------------|-----------|------------------------|-----------------------------|--------------------|--------|
| FREQUENCY                                                                                         |     | Mode    | Service | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | Spacing                                              | Antenna Config. | Device Serial Number | Data Rate (Mbps) | Side  | Duty Cycle (%) | Peak SAR of Area Scan | SAR (10g) | Scaling Factor (Power) | Scaling Factor (Duty Cycle) | Reported SAR (10g) | Plot # |
| MHz                                                                                               | Ch. |         |         |                 |                             |                       |                  |                                                      |                 |                      |                  |       |                | W/kg                  | (W/kg)    |                        |                             | (W/kg)             |        |
| 5320                                                                                              | 64  | 802.11a | OFDM    | 20              | 18.0                        | 17.91                 | 0.06             | 0 mm                                                 | 1               | 1360M                | 6                | back  | 98.8           | 8.601                 | 0.663     | 1.021                  | 1.013                       | 0.686              |        |
| 5320                                                                                              | 64  | 802.11a | OFDM    | 20              | 18.0                        | 17.91                 | 0.00             | 0 mm                                                 | 1               | 1360M                | 6                | front | 98.8           | 0.248                 | -         | 1.021                  | 1.013                       | -                  |        |
| 5320                                                                                              | 64  | 802.11a | OFDM    | 20              | 18.0                        | 17.91                 | 0.07             | 0 mm                                                 | 1               | 1360M                | 6                | top   | 98.8           | 2.309                 | -         | 1.021                  | 1.013                       | -                  |        |
| 5320                                                                                              | 64  | 802.11a | OFDM    | 20              | 18.0                        | 17.91                 | 0.09             | 0 mm                                                 | 1               | 1360M                | 6                | right | 98.8           | 1.248                 | -         | 1.021                  | 1.013                       | -                  |        |
| 5280                                                                                              | 56  | 802.11a | OFDM    | 20              | 18.0                        | 17.99                 | -0.13            | 0 mm                                                 | 2               | 1360M                | 6                | back  | 98.7           | 1.477                 | 0.214     | 1.002                  | 1.013                       | 0.217              |        |
| 5280                                                                                              | 56  | 802.11a | OFDM    | 20              | 18.0                        | 17.99                 | 0.09             | 0 mm                                                 | 2               | 1360M                | 6                | front | 98.7           | 0.466                 | -         | 1.002                  | 1.013                       | -                  |        |
| 5280                                                                                              | 56  | 802.11a | OFDM    | 20              | 18.0                        | 17.99                 | 0.06             | 0 mm                                                 | 2               | 1360M                | 6                | top   | 98.7           | 7.719                 | 0.754     | 1.002                  | 1.013                       | 0.765              |        |
| 5280                                                                                              | 56  | 802.11a | OFDM    | 20              | 18.0                        | 17.99                 | 0.09             | 0 mm                                                 | 2               | 1360M                | 6                | left  | 98.7           | 0.581                 | -         | 1.002                  | 1.013                       | -                  |        |
| 5500                                                                                              | 100 | 802.11a | OFDM    | 20              | 18.0                        | 17.94                 | 0.03             | 0 mm                                                 | 1               | 1360M                | 6                | back  | 98.8           | 5.536                 | 0.756     | 1.014                  | 1.013                       | 0.777              | A63    |
| 5500                                                                                              | 100 | 802.11a | OFDM    | 20              | 18.0                        | 17.94                 | 0.09             | 0 mm                                                 | 1               | 1360M                | 6                | front | 98.8           | 0.197                 | -         | 1.014                  | 1.013                       | -                  |        |
| 5500                                                                                              | 100 | 802.11a | OFDM    | 20              | 18.0                        | 17.94                 | -0.03            | 0 mm                                                 | 1               | 1360M                | 6                | top   | 98.8           | 4.564                 | -         | 1.014                  | 1.013                       | -                  |        |
| 5500                                                                                              | 100 | 802.11a | OFDM    | 20              | 18.0                        | 17.94                 | 0.09             | 0 mm                                                 | 1               | 1360M                | 6                | right | 98.8           | 0.838                 | -         | 1.014                  | 1.013                       | -                  |        |
| 5720                                                                                              | 144 | 802.11a | OFDM    | 20              | 18.0                        | 17.98                 | 0.00             | 0 mm                                                 | 2               | 1360M                | 6                | back  | 98.7           | 1.653                 | 0.200     | 1.005                  | 1.013                       | 0.204              |        |
| 5720                                                                                              | 144 | 802.11a | OFDM    | 20              | 18.0                        | 17.98                 | 0.09             | 0 mm                                                 | 2               | 1360M                | 6                | front | 98.7           | 0.259                 | -         | 1.005                  | 1.013                       | -                  |        |
| 5720                                                                                              | 144 | 802.11a | OFDM    | 20              | 18.0                        | 17.98                 | 0.05             | 0 mm                                                 | 2               | 1360M                | 6                | top   | 98.7           | 4.671                 | 0.601     | 1.005                  | 1.013                       | 0.612              |        |
| 5720                                                                                              | 144 | 802.11a | OFDM    | 20              | 18.0                        | 17.98                 | 0.09             | 0 mm                                                 | 2               | 1360M                | 6                | left  | 98.7           | 0.424                 | -         | 1.005                  | 1.013                       | -                  |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |     |         |         |                 |                             |                       |                  | Phablet<br>4.0 W/kg (mW/g)<br>averaged over 10 grams |                 |                      |                  |       |                |                       |           |                        |                             |                    |        |

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 109 of 176                 |

## 11.5 Standalone UMPC Body SAR Data

Table 11-45  
GPRS UMPC Body 1g SAR Data

| MEASUREMENT RESULTS                                                                               |     |          |         |                             |                       |                  |                                                      |                      |                 |            |        |          |                |                   |        |
|---------------------------------------------------------------------------------------------------|-----|----------|---------|-----------------------------|-----------------------|------------------|------------------------------------------------------|----------------------|-----------------|------------|--------|----------|----------------|-------------------|--------|
| FREQUENCY                                                                                         |     | Mode     | Service | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | Spacing                                              | Device Serial Number | # of GPRS Slots | Duty Cycle | Side   | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |
| MHz                                                                                               | Ch. |          |         |                             |                       |                  |                                                      |                      |                 |            |        | (W/kg)   |                | (W/kg)            |        |
| 824.20                                                                                            | 128 | GSM 850  | GPRS    | 31.0                        | 29.65                 | 0.17             | 10 mm                                                | 1385M                | 3               | 1:2.76     | back   | 0.519    | 1.365          | 0.708             |        |
| 836.60                                                                                            | 190 | GSM 850  | GPRS    | 31.0                        | 29.88                 | -0.11            | 10 mm                                                | 1385M                | 3               | 1:2.76     | back   | 0.606    | 1.294          | 0.784             | A64    |
| 848.80                                                                                            | 251 | GSM 850  | GPRS    | 31.0                        | 29.93                 | -0.11            | 10 mm                                                | 1385M                | 3               | 1:2.76     | back   | 0.589    | 1.279          | 0.753             |        |
| 836.60                                                                                            | 190 | GSM 850  | GPRS    | 31.0                        | 29.88                 | 0.03             | 10 mm                                                | 1385M                | 3               | 1:2.76     | front  | 0.419    | 1.294          | 0.542             |        |
| 836.60                                                                                            | 190 | GSM 850  | GPRS    | 31.0                        | 29.88                 | 0.19             | 10 mm                                                | 1385M                | 3               | 1:2.76     | bottom | 0.294    | 1.294          | 0.380             |        |
| 836.60                                                                                            | 190 | GSM 850  | GPRS    | 31.0                        | 29.88                 | -0.04            | 10 mm                                                | 1385M                | 3               | 1:2.76     | right  | 0.293    | 1.294          | 0.379             |        |
| 1850.20                                                                                           | 512 | GSM 1900 | GPRS    | 30.5                        | 28.82                 | 0.18             | 10 mm                                                | 1362M                | 2               | 1:4.15     | back   | 0.485    | 1.472          | 0.714             |        |
| 1880.00                                                                                           | 661 | GSM 1900 | GPRS    | 30.5                        | 28.80                 | 0.04             | 10 mm                                                | 1362M                | 2               | 1:4.15     | back   | 0.590    | 1.479          | 0.873             |        |
| 1909.80                                                                                           | 810 | GSM 1900 | GPRS    | 30.5                        | 28.72                 | 0.10             | 10 mm                                                | 1362M                | 2               | 1:4.15     | back   | 0.538    | 1.507          | 0.811             |        |
| 1880.00                                                                                           | 661 | GSM 1900 | GPRS    | 30.5                        | 28.80                 | 0.06             | 10 mm                                                | 1362M                | 2               | 1:4.15     | front  | 0.448    | 1.479          | 0.663             |        |
| 1850.20                                                                                           | 512 | GSM 1900 | GPRS    | 30.5                        | 28.82                 | -0.02            | 13 mm                                                | 1362M                | 2               | 1:4.15     | bottom | 0.536    | 1.472          | 0.789             |        |
| 1880.00                                                                                           | 661 | GSM 1900 | GPRS    | 30.5                        | 28.80                 | -0.10            | 13 mm                                                | 1362M                | 2               | 1:4.15     | bottom | 0.764    | 1.479          | 1.130             | A65    |
| 1909.80                                                                                           | 810 | GSM 1900 | GPRS    | 30.5                        | 28.72                 | -0.13            | 13 mm                                                | 1362M                | 2               | 1:4.15     | bottom | 0.750    | 1.507          | 1.130             |        |
| 1880.00                                                                                           | 661 | GSM 1900 | GPRS    | 27.5                        | 26.33                 | -0.11            | 10 mm                                                | 1362M                | 2               | 1:4.15     | bottom | 0.568    | 1.309          | 0.744             |        |
| 1880.00                                                                                           | 661 | GSM 1900 | GPRS    | 30.5                        | 28.80                 | -0.17            | 10 mm                                                | 1362M                | 2               | 1:4.15     | right  | 0.161    | 1.479          | 0.238             |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |     |          |         |                             |                       |                  | UMPC Body<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |                      |                 |            |        |          |                |                   |        |

|                                         |                                                                                     |                               |                       |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|-----------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  |                               | SAR EVALUATION REPORT |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                       |                                                                                       | Page 110 of 176                 |

**Table 11-46**  
**UMTS UMPC Body 1g SAR Data**

| MEASUREMENT RESULTS                                                                               |      |           |         |                             |                       |           |                  |                                                      |                      |            |        |          |                |                   |        |
|---------------------------------------------------------------------------------------------------|------|-----------|---------|-----------------------------|-----------------------|-----------|------------------|------------------------------------------------------|----------------------|------------|--------|----------|----------------|-------------------|--------|
| FREQUENCY                                                                                         |      | Mode      | Service | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Ant State | Power Drift [dB] | Spacing                                              | Device Serial Number | Duty Cycle | Side   | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |
| MHz                                                                                               | Ch.  |           |         |                             |                       |           |                  |                                                      |                      |            |        | (W/kg)   |                | (W/kg)            |        |
| 836.60                                                                                            | 4183 | UMTS 850  | RMC     | 25.5                        | 24.19                 | 0         | -0.07            | 10 mm                                                | 1366M                | 1:1        | back   | 0.315    | 1.352          | 0.426             | A66    |
| 836.60                                                                                            | 4183 | UMTS 850  | RMC     | 25.5                        | 24.19                 | 0         | 0.00             | 10 mm                                                | 1366M                | 1:1        | front  | 0.305    | 1.352          | 0.412             |        |
| 836.60                                                                                            | 4183 | UMTS 850  | RMC     | 25.5                        | 24.19                 | 0         | 0.00             | 10 mm                                                | 1366M                | 1:1        | bottom | 0.256    | 1.352          | 0.346             |        |
| 836.60                                                                                            | 4183 | UMTS 850  | RMC     | 25.5                        | 24.19                 | 0         | -0.02            | 10 mm                                                | 1366M                | 1:1        | right  | 0.251    | 1.352          | 0.339             |        |
| 1732.40                                                                                           | 1412 | UMTS 1750 | RMC     | 25.5                        | 24.17                 | N/A       | -0.06            | 10 mm                                                | 1362M                | 1:1        | back   | 0.554    | 1.358          | 0.752             |        |
| 1732.40                                                                                           | 1412 | UMTS 1750 | RMC     | 25.5                        | 24.17                 | N/A       | 0.00             | 10 mm                                                | 1362M                | 1:1        | front  | 0.557    | 1.358          | 0.756             |        |
| 1712.40                                                                                           | 1312 | UMTS 1750 | RMC     | 25.5                        | 24.14                 | N/A       | -0.04            | 13 mm                                                | 1362M                | 1:1        | bottom | 0.576    | 1.368          | 0.788             | A67    |
| 1732.40                                                                                           | 1412 | UMTS 1750 | RMC     | 25.5                        | 24.17                 | N/A       | -0.08            | 13 mm                                                | 1362M                | 1:1        | bottom | 0.562    | 1.358          | 0.763             |        |
| 1752.60                                                                                           | 1513 | UMTS 1750 | RMC     | 25.5                        | 24.08                 | N/A       | 0.04             | 13 mm                                                | 1362M                | 1:1        | bottom | 0.557    | 1.387          | 0.773             |        |
| 1732.40                                                                                           | 1412 | UMTS 1750 | RMC     | 20.5                        | 19.80                 | N/A       | -0.09            | 10 mm                                                | 1407M                | 1:1        | bottom | 0.368    | 1.175          | 0.432             |        |
| 1732.40                                                                                           | 1412 | UMTS 1750 | RMC     | 25.5                        | 24.17                 | N/A       | 0.01             | 10 mm                                                | 1362M                | 1:1        | right  | 0.259    | 1.358          | 0.352             |        |
| 1852.40                                                                                           | 9262 | UMTS 1900 | RMC     | 25.5                        | 24.35                 | N/A       | 0.09             | 10 mm                                                | 1362M                | 1:1        | back   | 0.583    | 1.303          | 0.760             |        |
| 1880.00                                                                                           | 9400 | UMTS 1900 | RMC     | 25.5                        | 24.32                 | N/A       | -0.01            | 10 mm                                                | 1362M                | 1:1        | back   | 0.664    | 1.312          | 0.871             |        |
| 1907.60                                                                                           | 9538 | UMTS 1900 | RMC     | 25.5                        | 24.30                 | N/A       | 0.00             | 10 mm                                                | 1362M                | 1:1        | back   | 0.689    | 1.318          | 0.908             |        |
| 1880.00                                                                                           | 9400 | UMTS 1900 | RMC     | 25.5                        | 24.32                 | N/A       | -0.05            | 10 mm                                                | 1362M                | 1:1        | front  | 0.567    | 1.312          | 0.744             |        |
| 1852.40                                                                                           | 9262 | UMTS 1900 | RMC     | 25.5                        | 24.35                 | N/A       | -0.07            | 13 mm                                                | 1362M                | 1:1        | bottom | 0.802    | 1.303          | 1.045             |        |
| 1880.00                                                                                           | 9400 | UMTS 1900 | RMC     | 25.5                        | 24.32                 | N/A       | -0.03            | 13 mm                                                | 1362M                | 1:1        | bottom | 0.923    | 1.312          | 1.211             |        |
| 1907.60                                                                                           | 9538 | UMTS 1900 | RMC     | 25.5                        | 24.30                 | N/A       | -0.11            | 13 mm                                                | 1362M                | 1:1        | bottom | 1.050    | 1.318          | 1.384             | A68    |
| 1880.00                                                                                           | 9400 | UMTS 1900 | RMC     | 21.0                        | 19.68                 | N/A       | -0.02            | 10 mm                                                | 1362M                | 1:1        | bottom | 0.544    | 1.355          | 0.737             |        |
| 1880.00                                                                                           | 9400 | UMTS 1900 | RMC     | 25.5                        | 24.32                 | N/A       | -0.03            | 10 mm                                                | 1362M                | 1:1        | right  | 0.216    | 1.312          | 0.283             |        |
| 1907.60                                                                                           | 9538 | UMTS 1900 | RMC     | 25.5                        | 24.30                 | N/A       | -0.02            | 13 mm                                                | 1362M                | 1:1        | bottom | 0.995    | 1.318          | 1.311             |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |      |           |         |                             |                       |           |                  | UMPC Body<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |                      |            |        |          |                |                   |        |

Note: Blue entry represents variability measurement

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 111 of 176                 |

**Table 11-47**  
**LTE Band 71 UMPC Body 1g SAR Data**

| MEASUREMENT RESULTS                                                                               |        |      |                 |                             |                       |           |                  |          |                                                      |            |         |           |         |       |            |          |                |                   |        |     |
|---------------------------------------------------------------------------------------------------|--------|------|-----------------|-----------------------------|-----------------------|-----------|------------------|----------|------------------------------------------------------|------------|---------|-----------|---------|-------|------------|----------|----------------|-------------------|--------|-----|
| FREQUENCY                                                                                         |        | Mode | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Ant State | 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)            |        |     |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 25.5                  | 24.62     | 34               | -0.16    | 0                                                    | 1358M      | QPSK    | 1         | 0       | 10 mm | back       | 1:1      | 0.253          | 1.225             | 0.310  |     |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 24.5                  | 23.75     | 34               | -0.06    | 1                                                    | 1358M      | QPSK    | 50        | 0       | 10 mm | back       | 1:1      | 0.212          | 1.189             | 0.252  |     |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 25.5                  | 24.62     | 34               | 0.01     | 0                                                    | 1358M      | QPSK    | 1         | 0       | 10 mm | front      | 1:1      | 0.257          | 1.225             | 0.315  |     |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 24.5                  | 23.75     | 34               | 0.02     | 1                                                    | 1358M      | QPSK    | 50        | 0       | 10 mm | front      | 1:1      | 0.218          | 1.189             | 0.259  |     |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 25.5                  | 24.62     | 34               | 0.03     | 0                                                    | 1358M      | QPSK    | 1         | 0       | 10 mm | bottom     | 1:1      | 0.166          | 1.225             | 0.203  |     |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 24.5                  | 23.75     | 34               | -0.05    | 1                                                    | 1358M      | QPSK    | 50        | 0       | 10 mm | bottom     | 1:1      | 0.144          | 1.189             | 0.171  |     |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 25.5                  | 24.62     | 34               | 0.03     | 0                                                    | 1358M      | QPSK    | 1         | 0       | 10 mm | right      | 1:1      | 0.347          | 1.225             | 0.425  | A69 |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 24.5                  | 23.75     | 34               | -0.01    | 1                                                    | 1358M      | QPSK    | 50        | 0       | 10 mm | right      | 1:1      | 0.290          | 1.189             | 0.345  |     |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |        |      |                 |                             |                       |           |                  |          | UMPC Body<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |            |         |           |         |       |            |          |                |                   |        |     |

**Table 11-48**  
**LTE Band 12 UMPC Body 1g SAR Data**

| MEASUREMENT RESULTS                      |       |      |                 |                             |                       |           |                  |          |                      |            |         |           |         |       |            |          |                |                   |        |     |
|------------------------------------------|-------|------|-----------------|-----------------------------|-----------------------|-----------|------------------|----------|----------------------|------------|---------|-----------|---------|-------|------------|----------|----------------|-------------------|--------|-----|
| FREQUENCY                                |       | Mode | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Ant State | 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)            |        |     |
| 707.50                                   | 23095 | Mid  | LTE Band 12     | 10                          | 25.5                  | 24.26     | 32               | 0.06     | 0                    | 1358M      | QPSK    | 1         | 25      | 10 mm | back       | 1:1      | 0.314          | 1.330             | 0.418  |     |
| 707.50                                   | 23095 | Mid  | LTE Band 12     | 10                          | 24.5                  | 23.48     | 32               | -0.04    | 1                    | 1358M      | QPSK    | 25        | 0       | 10 mm | back       | 1:1      | 0.266          | 1.265             | 0.336  |     |
| 707.50                                   | 23095 | Mid  | LTE Band 12     | 10                          | 25.5                  | 24.26     | 32               | 0.02     | 0                    | 1358M      | QPSK    | 1         | 25      | 10 mm | front      | 1:1      | 0.330          | 1.330             | 0.439  |     |
| 707.50                                   | 23095 | Mid  | LTE Band 12     | 10                          | 24.5                  | 23.48     | 32               | 0.02     | 1                    | 1358M      | QPSK    | 25        | 0       | 10 mm | front      | 1:1      | 0.278          | 1.265             | 0.352  |     |
| 707.50                                   | 23095 | Mid  | LTE Band 12     | 10                          | 25.5                  | 24.26     | 32               | 0.08     | 0                    | 1358M      | QPSK    | 1         | 25      | 10 mm | bottom     | 1:1      | 0.228          | 1.330             | 0.303  |     |
| 707.50                                   | 23095 | Mid  | LTE Band 12     | 10                          | 24.5                  | 23.48     | 32               | -0.04    | 1                    | 1358M      | QPSK    | 25        | 0       | 10 mm | bottom     | 1:1      | 0.193          | 1.265             | 0.244  |     |
| 707.50                                   | 23095 | Mid  | LTE Band 12     | 10                          | 25.5                  | 24.26     | 32               | 0.00     | 0                    | 1358M      | QPSK    | 1         | 25      | 10 mm | right      | 1:1      | 0.392          | 1.330             | 0.521  | A70 |
| 707.50                                   | 23095 | Mid  | LTE Band 12     | 10                          | 24.5                  | 23.48     | 32               | 0.00     | 1                    | 1358M      | QPSK    | 25        | 0       | 10 mm | right      | 1:1      | 0.344          | 1.265             | 0.435  |     |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT    |       |      |                 |                             |                       |           |                  |          | UMPC Body            |            |         |           |         |       |            |          |                |                   |        |     |
| Spatial Peak                             |       |      |                 |                             |                       |           |                  |          | 1.6 W/kg (mW/g)      |            |         |           |         |       |            |          |                |                   |        |     |
| Uncontrolled Exposure/General Population |       |      |                 |                             |                       |           |                  |          | averaged over 1 gram |            |         |           |         |       |            |          |                |                   |        |     |

**Table 11-49**  
**LTE Band 13 UMPC Body 1g SAR Data**

| MEASUREMENT RESULTS                                                                               |       |      |                 |                             |                       |           |                  |          |                                                      |            |         |           |         |       |            |          |                |                   |        |     |
|---------------------------------------------------------------------------------------------------|-------|------|-----------------|-----------------------------|-----------------------|-----------|------------------|----------|------------------------------------------------------|------------|---------|-----------|---------|-------|------------|----------|----------------|-------------------|--------|-----|
| FREQUENCY                                                                                         |       | Mode | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Ant State | 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)            |        |     |
| 782.00                                                                                            | 23230 | Mid  | LTE Band 13     | 10                          | 25.5                  | 24.02     | 78               | -0.13    | 0                                                    | 1389M      | QPSK    | 1         | 49      | 10 mm | back       | 1:1      | 0.495          | 1.406             | 0.696  | A71 |
| 782.00                                                                                            | 23230 | Mid  | LTE Band 13     | 10                          | 24.5                  | 23.11     | 78               | -0.07    | 1                                                    | 1389M      | QPSK    | 25        | 0       | 10 mm | back       | 1:1      | 0.395          | 1.377             | 0.544  |     |
| 782.00                                                                                            | 23230 | Mid  | LTE Band 13     | 10                          | 25.5                  | 24.02     | 78               | -0.09    | 0                                                    | 1389M      | QPSK    | 1         | 49      | 10 mm | front      | 1:1      | 0.434          | 1.406             | 0.610  |     |
| 782.00                                                                                            | 23230 | Mid  | LTE Band 13     | 10                          | 24.5                  | 23.11     | 78               | 0.00     | 1                                                    | 1389M      | QPSK    | 25        | 0       | 10 mm | front      | 1:1      | 0.350          | 1.377             | 0.482  |     |
| 782.00                                                                                            | 23230 | Mid  | LTE Band 13     | 10                          | 25.5                  | 24.02     | 78               | -0.04    | 0                                                    | 1389M      | QPSK    | 1         | 49      | 10 mm | bottom     | 1:1      | 0.310          | 1.406             | 0.436  |     |
| 782.00                                                                                            | 23230 | Mid  | LTE Band 13     | 10                          | 24.5                  | 23.11     | 78               | 0.02     | 1                                                    | 1389M      | QPSK    | 25        | 0       | 10 mm | bottom     | 1:1      | 0.233          | 1.377             | 0.321  |     |
| 782.00                                                                                            | 23230 | Mid  | LTE Band 13     | 10                          | 25.5                  | 24.02     | 78               | -0.05    | 0                                                    | 1389M      | QPSK    | 1         | 49      | 10 mm | right      | 1:1      | 0.268          | 1.406             | 0.377  |     |
| 782.00                                                                                            | 23230 | Mid  | LTE Band 13     | 10                          | 24.5                  | 23.11     | 78               | -0.03    | 1                                                    | 1389M      | QPSK    | 25        | 0       | 10 mm | right      | 1:1      | 0.219          | 1.377             | 0.302  |     |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |       |      |                 |                             |                       |           |                  |          | UMPC Body<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |            |         |           |         |       |            |          |                |                   |        |     |

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 112 of 176                 |

**Table 11-50**  
**LTE Band 14 UMPC Body 1g SAR Data**

| MEASUREMENT RESULTS                                                                               |       |      |                 |                             |                       |           |                  |          |                                                      |            |         |           |         |       |            |          |                |                   |        |     |
|---------------------------------------------------------------------------------------------------|-------|------|-----------------|-----------------------------|-----------------------|-----------|------------------|----------|------------------------------------------------------|------------|---------|-----------|---------|-------|------------|----------|----------------|-------------------|--------|-----|
| FREQUENCY                                                                                         |       | Mode | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Ant State | 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)            |        |     |
| 793.00                                                                                            | 23330 | Mid  | LTE Band 14     | 10                          | 25.5                  | 24.23     | 32               | -0.11    | 0                                                    | 1389M      | QPSK    | 1         | 0       | 10 mm | back       | 1:1      | 0.496          | 1.340             | 0.665  | A72 |
| 793.00                                                                                            | 23330 | Mid  | LTE Band 14     | 10                          | 24.5                  | 23.30     | 32               | -0.11    | 1                                                    | 1389M      | QPSK    | 25        | 12      | 10 mm | back       | 1:1      | 0.416          | 1.318             | 0.548  |     |
| 793.00                                                                                            | 23330 | Mid  | LTE Band 14     | 10                          | 25.5                  | 24.23     | 32               | 0.00     | 0                                                    | 1389M      | QPSK    | 1         | 0       | 10 mm | front      | 1:1      | 0.460          | 1.340             | 0.616  |     |
| 793.00                                                                                            | 23330 | Mid  | LTE Band 14     | 10                          | 24.5                  | 23.30     | 32               | 0.00     | 1                                                    | 1389M      | QPSK    | 25        | 12      | 10 mm | front      | 1:1      | 0.366          | 1.318             | 0.482  |     |
| 793.00                                                                                            | 23330 | Mid  | LTE Band 14     | 10                          | 25.5                  | 24.23     | 32               | 0.03     | 0                                                    | 1389M      | QPSK    | 1         | 0       | 10 mm | bottom     | 1:1      | 0.309          | 1.340             | 0.414  |     |
| 793.00                                                                                            | 23330 | Mid  | LTE Band 14     | 10                          | 24.5                  | 23.30     | 32               | 0.03     | 1                                                    | 1389M      | QPSK    | 25        | 12      | 10 mm | bottom     | 1:1      | 0.242          | 1.318             | 0.319  |     |
| 793.00                                                                                            | 23330 | Mid  | LTE Band 14     | 10                          | 25.5                  | 24.23     | 32               | -0.09    | 0                                                    | 1389M      | QPSK    | 1         | 0       | 10 mm | right      | 1:1      | 0.262          | 1.340             | 0.351  |     |
| 793.00                                                                                            | 23330 | Mid  | LTE Band 14     | 10                          | 24.5                  | 23.30     | 32               | -0.05    | 1                                                    | 1389M      | QPSK    | 25        | 12      | 10 mm | right      | 1:1      | 0.228          | 1.318             | 0.301  |     |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |       |      |                 |                             |                       |           |                  |          | UMPC Body<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |            |         |           |         |       |            |          |                |                   |        |     |

**Table 11-51**  
**LTE Band 26 (Cell) UMPC Body 1g SAR Data**

| MEASUREMENT RESULTS                                                                               |       |      |                    |                             |                       |           |                  |          |                                                      |            |         |           |         |       |            |          |                |                   |        |     |
|---------------------------------------------------------------------------------------------------|-------|------|--------------------|-----------------------------|-----------------------|-----------|------------------|----------|------------------------------------------------------|------------|---------|-----------|---------|-------|------------|----------|----------------|-------------------|--------|-----|
| FREQUENCY                                                                                         |       | Mode | Bandwidth [MHz]    | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Ant State | 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)            |        |     |
| 831.50                                                                                            | 26865 | Mid  | LTE Band 26 (Cell) | 15                          | 25.5                  | 24.22     | 0                | -0.09    | 0                                                    | 1366M      | QPSK    | 1         | 0       | 10 mm | back       | 1:1      | 0.341          | 1.343             | 0.458  | A73 |
| 831.50                                                                                            | 26865 | Mid  | LTE Band 26 (Cell) | 15                          | 24.5                  | 23.27     | 0                | -0.11    | 1                                                    | 1366M      | QPSK    | 36        | 37      | 10 mm | back       | 1:1      | 0.299          | 1.327             | 0.397  |     |
| 831.50                                                                                            | 26865 | Mid  | LTE Band 26 (Cell) | 15                          | 25.5                  | 24.22     | 0                | 0.00     | 0                                                    | 1366M      | QPSK    | 1         | 0       | 10 mm | front      | 1:1      | 0.324          | 1.343             | 0.435  |     |
| 831.50                                                                                            | 26865 | Mid  | LTE Band 26 (Cell) | 15                          | 24.5                  | 23.27     | 0                | 0.03     | 1                                                    | 1366M      | QPSK    | 36        | 37      | 10 mm | front      | 1:1      | 0.286          | 1.327             | 0.380  |     |
| 831.50                                                                                            | 26865 | Mid  | LTE Band 26 (Cell) | 15                          | 25.5                  | 24.22     | 0                | 0.02     | 0                                                    | 1366M      | QPSK    | 1         | 0       | 10 mm | bottom     | 1:1      | 0.243          | 1.343             | 0.326  |     |
| 831.50                                                                                            | 26865 | Mid  | LTE Band 26 (Cell) | 15                          | 24.5                  | 23.27     | 0                | 0.01     | 1                                                    | 1366M      | QPSK    | 36        | 37      | 10 mm | bottom     | 1:1      | 0.221          | 1.327             | 0.293  |     |
| 831.50                                                                                            | 26865 | Mid  | LTE Band 26 (Cell) | 15                          | 25.5                  | 24.22     | 0                | -0.04    | 0                                                    | 1366M      | QPSK    | 1         | 0       | 10 mm | right      | 1:1      | 0.241          | 1.343             | 0.324  |     |
| 831.50                                                                                            | 26865 | Mid  | LTE Band 26 (Cell) | 15                          | 24.5                  | 23.27     | 0                | 0.02     | 1                                                    | 1366M      | QPSK    | 36        | 37      | 10 mm | right      | 1:1      | 0.234          | 1.327             | 0.311  |     |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |       |      |                    |                             |                       |           |                  |          | UMPC Body<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |            |         |           |         |       |            |          |                |                   |        |     |

**Table 11-52**  
**LTE Band 66 (AWS) UMPC Body 1g SAR Data**

| 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)            |        |     |
| 1720.00                                                                                           | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 25.0                  | 24.24            | 0.01     | 0                                                    | 1362M      | QPSK    | 1         | 0       | 10 mm | back       | 1:1      | 0.644          | 1.191             | 0.767  |     |
| 1720.00                                                                                           | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 24.0                  | 23.33            | 0.05     | 1                                                    | 1362M      | QPSK    | 50        | 0       | 10 mm | back       | 1:1      | 0.535          | 1.167             | 0.624  |     |
| 1720.00                                                                                           | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 25.0                  | 24.24            | 0.06     | 0                                                    | 1362M      | QPSK    | 1         | 0       | 10 mm | front      | 1:1      | 0.514          | 1.191             | 0.612  |     |
| 1720.00                                                                                           | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 24.0                  | 23.33            | 0.06     | 1                                                    | 1362M      | QPSK    | 50        | 0       | 10 mm | front      | 1:1      | 0.434          | 1.167             | 0.506  |     |
| 1720.00                                                                                           | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 25.0                  | 24.24            | -0.03    | 0                                                    | 1362M      | QPSK    | 1         | 0       | 13 mm | bottom     | 1:1      | 0.646          | 1.191             | 0.769  |     |
| 1745.00                                                                                           | 132322 | Mid  | LTE Band 66 (AWS) | 20                          | 25.0                  | 24.14            | 0.03     | 0                                                    | 1362M      | QPSK    | 1         | 0       | 13 mm | bottom     | 1:1      | 0.627          | 1.219             | 0.764  |     |
| 1770.00                                                                                           | 132572 | High | LTE Band 66 (AWS) | 20                          | 25.0                  | 24.06            | 0.04     | 0                                                    | 1362M      | QPSK    | 1         | 0       | 13 mm | bottom     | 1:1      | 0.693          | 1.242             | 0.861  | A74 |
| 1720.00                                                                                           | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 24.0                  | 23.33            | 0.03     | 1                                                    | 1362M      | QPSK    | 50        | 0       | 13 mm | bottom     | 1:1      | 0.532          | 1.167             | 0.621  |     |
| 1720.00                                                                                           | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 24.0                  | 23.28            | 0.01     | 1                                                    | 1362M      | QPSK    | 100       | 0       | 13 mm | bottom     | 1:1      | 0.525          | 1.180             | 0.620  |     |
| 1720.00                                                                                           | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 25.0                  | 24.24            | -0.02    | 0                                                    | 1362M      | QPSK    | 1         | 0       | 10 mm | right      | 1:1      | 0.250          | 1.191             | 0.298  |     |
| 1720.00                                                                                           | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 24.0                  | 23.33            | -0.03    | 1                                                    | 1362M      | QPSK    | 50        | 0       | 10 mm | right      | 1:1      | 0.209          | 1.167             | 0.244  |     |
| 1720.00                                                                                           | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 19.8                  | 18.84            | 0.00     | 0                                                    | 1407M      | QPSK    | 1         | 0       | 10 mm | bottom     | 1:1      | 0.346          | 1.247             | 0.431  |     |
| 1720.00                                                                                           | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 19.8                  | 18.97            | 0.00     | 0                                                    | 1407M      | QPSK    | 50        | 0       | 10 mm | bottom     | 1:1      | 0.349          | 1.211             | 0.423  |     |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |        |      |                   |                             |                       |                  |          | UMPC Body<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |            |         |           |         |       |            |          |                |                   |        |     |

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset | Page 113 of 176                                                                       |                                 |

**Table 11-53**  
**LTE Band 25 (PCS) UMPC Body 1g SAR Data**

| 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 # |
|                                                                                                   |       |      |                   |                 |                             |                       |                  |                                                      |                      |            |         |           |         |        |            | (W/kg)   |                | (W/kg)            |        |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20              | 25.0                        | 24.10                 | 0.17             | 0                                                    | 1362M                | QPSK       | 1       | 0         | 10 mm   | back   | 1:1        | 0.528    | 1.230          | 0.649             |        |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20              | 24.0                        | 23.20                 | -0.01            | 1                                                    | 1362M                | QPSK       | 50      | 50        | 10 mm   | back   | 1:1        | 0.486    | 1.202          | 0.584             |        |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20              | 25.0                        | 24.10                 | -0.14            | 0                                                    | 1362M                | QPSK       | 1       | 0         | 10 mm   | front  | 1:1        | 0.575    | 1.230          | 0.707             |        |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20              | 24.0                        | 23.20                 | 0.07             | 1                                                    | 1362M                | QPSK       | 50      | 50        | 10 mm   | front  | 1:1        | 0.510    | 1.202          | 0.613             |        |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20              | 25.0                        | 24.10                 | -0.09            | 0                                                    | 1362M                | QPSK       | 1       | 0         | 13 mm   | bottom | 1:1        | 0.759    | 1.230          | 0.934             |        |
| 1882.50                                                                                           | 26365 | Mid  | LTE Band 25 (PCS) | 20              | 25.0                        | 23.95                 | 0.03             | 0                                                    | 1362M                | QPSK       | 1       | 50        | 13 mm   | bottom | 1:1        | 0.973    | 1.274          | 1.240             | A75    |
| 1905.00                                                                                           | 26590 | High | LTE Band 25 (PCS) | 20              | 25.0                        | 23.83                 | 0.12             | 0                                                    | 1362M                | QPSK       | 1       | 99        | 13 mm   | bottom | 1:1        | 0.853    | 1.309          | 1.117             |        |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20              | 24.0                        | 23.20                 | 0.07             | 1                                                    | 1362M                | QPSK       | 50      | 50        | 13 mm   | bottom | 1:1        | 0.680    | 1.202          | 0.817             |        |
| 1882.50                                                                                           | 26365 | Mid  | LTE Band 25 (PCS) | 20              | 24.0                        | 23.03                 | 0.05             | 1                                                    | 1362M                | QPSK       | 50      | 25        | 13 mm   | bottom | 1:1        | 0.776    | 1.250          | 0.970             |        |
| 1905.00                                                                                           | 26590 | High | LTE Band 25 (PCS) | 20              | 24.0                        | 23.05                 | -0.01            | 1                                                    | 1362M                | QPSK       | 50      | 50        | 13 mm   | bottom | 1:1        | 0.780    | 1.245          | 0.971             |        |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20              | 24.0                        | 23.18                 | 0.03             | 1                                                    | 1362M                | QPSK       | 100     | 0         | 13 mm   | bottom | 1:1        | 0.673    | 1.208          | 0.813             |        |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20              | 25.0                        | 24.10                 | -0.15            | 0                                                    | 1362M                | QPSK       | 1       | 0         | 10 mm   | right  | 1:1        | 0.170    | 1.230          | 0.209             |        |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20              | 24.0                        | 23.20                 | -0.05            | 1                                                    | 1362M                | QPSK       | 50      | 50        | 10 mm   | right  | 1:1        | 0.151    | 1.202          | 0.182             |        |
| 1905.00                                                                                           | 26590 | High | LTE Band 25 (PCS) | 20              | 20.5                        | 20.49                 | -0.04            | 0                                                    | 1362M                | QPSK       | 1       | 0         | 10 mm   | bottom | 1:1        | 0.744    | 1.002          | 0.745             |        |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20              | 20.5                        | 20.41                 | -0.02            | 0                                                    | 1362M                | QPSK       | 50      | 50        | 10 mm   | bottom | 1:1        | 0.657    | 1.021          | 0.671             |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |       |      |                   |                 |                             |                       |                  | UMPC Body<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |                      |            |         |           |         |        |            |          |                |                   |        |

**Table 11-54**  
**LTE Band 30 UMPC Body 1g SAR Data**

| 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                          | 25.0                  | 24.33            | -0.11    | 0                                                    | 1404M      | QPSK    | 1         | 0       | 10 mm | back       | 1:1      | 0.817          | 1.167             | 0.953  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 24.0                  | 23.35            | -0.05    | 1                                                    | 1404M      | QPSK    | 25        | 12      | 10 mm | back       | 1:1      | 0.670          | 1.161             | 0.778  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 24.0                  | 23.26            | -0.03    | 1                                                    | 1404M      | QPSK    | 50        | 0       | 10 mm | back       | 1:1      | 0.662          | 1.186             | 0.785  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 25.0                  | 24.33            | -0.09    | 0                                                    | 1404M      | QPSK    | 1         | 0       | 10 mm | front      | 1:1      | 0.767          | 1.167             | 0.895  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 24.0                  | 23.35            | 0.02     | 1                                                    | 1404M      | QPSK    | 25        | 12      | 10 mm | front      | 1:1      | 0.629          | 1.161             | 0.730  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 24.0                  | 23.26            | 0.09     | 1                                                    | 1404M      | QPSK    | 50        | 0       | 10 mm | front      | 1:1      | 0.635          | 1.186             | 0.753  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 25.0                  | 24.33            | -0.11    | 0                                                    | 1404M      | QPSK    | 1         | 0       | 13 mm | bottom     | 1:1      | 0.998          | 1.167             | 1.165  | A76 |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 24.0                  | 23.35            | -0.03    | 1                                                    | 1404M      | QPSK    | 25        | 12      | 13 mm | bottom     | 1:1      | 0.828          | 1.161             | 0.961  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 24.0                  | 23.26            | -0.02    | 1                                                    | 1404M      | QPSK    | 50        | 0       | 13 mm | bottom     | 1:1      | 0.820          | 1.186             | 0.973  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 25.0                  | 24.33            | 0.03     | 0                                                    | 1404M      | QPSK    | 1         | 0       | 10 mm | right      | 1:1      | 0.214          | 1.167             | 0.250  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 24.0                  | 23.35            | -0.03    | 1                                                    | 1404M      | QPSK    | 25        | 12      | 10 mm | right      | 1:1      | 0.178          | 1.161             | 0.207  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 21.0                  | 20.33            | -0.04    | 0                                                    | 1404M      | QPSK    | 1         | 25      | 10 mm | bottom     | 1:1      | 0.676          | 1.167             | 0.789  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 21.0                  | 20.29            | -0.03    | 0                                                    | 1404M      | QPSK    | 25        | 12      | 10 mm | bottom     | 1:1      | 0.717          | 1.178             | 0.845  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 21.0                  | 20.26            | -0.03    | 0                                                    | 1404M      | QPSK    | 50        | 0       | 10 mm | bottom     | 1:1      | 0.725          | 1.186             | 0.860  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 25.0                  | 24.33            | -0.15    | 0                                                    | 1404M      | QPSK    | 1         | 0       | 13 mm | bottom     | 1:1      | 0.955          | 1.167             | 1.114  |     |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |       |      |                 |                             |                       |                  |          | UMPC Body<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |            |         |           |         |       |            |          |                |                   |        |     |

Note: Blue Entry represents variability measurement

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 114 of 176                 |

**Table 11-55**  
**LTE Band 7 UMPC Body 1g SAR Data**

| 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]             | 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               | 2510.00   | 20850 | Low  | LTE Band 7 | 20              | 24.6                        | 24.17                 | -0.02            | 0                    | 1382M                | QPSK       | 1       | 99        | 10 mm   | back   | 1:1        | 0.944    | 1.104          | 1.042             |        |
| 1 CC Uplink                              | N/A               | 2535.00   | 21100 | Mid  | LTE Band 7 | 20              | 24.6                        | 24.12                 | 0.06             | 0                    | 1382M                | QPSK       | 1       | 0         | 10 mm   | back   | 1:1        | 0.968    | 1.117          | 1.081             |        |
| 1 CC Uplink                              | N/A               | 2560.00   | 21350 | High | LTE Band 7 | 20              | 24.6                        | 24.07                 | 0.00             | 0                    | 1382M                | QPSK       | 1       | 0         | 10 mm   | back   | 1:1        | 0.945    | 1.130          | 1.068             |        |
| 1 CC Uplink                              | N/A               | 2510.00   | 20850 | Low  | LTE Band 7 | 20              | 23.6                        | 23.22                 | -0.03            | 1                    | 1382M                | QPSK       | 50      | 0         | 10 mm   | back   | 1:1        | 0.519    | 1.091          | 0.566             |        |
| 1 CC Uplink                              | N/A               | 2510.00   | 20850 | Low  | LTE Band 7 | 20              | 23.6                        | 23.20                 | 0.05             | 1                    | 1382M                | QPSK       | 100     | 0         | 10 mm   | back   | 1:1        | 0.582    | 1.096          | 0.638             |        |
| 1 CC Uplink                              | N/A               | 2510.00   | 20850 | Low  | LTE Band 7 | 20              | 24.6                        | 24.17                 | -0.08            | 0                    | 1382M                | QPSK       | 1       | 99        | 10 mm   | front  | 1:1        | 0.991    | 1.104          | 1.094             |        |
| 1 CC Uplink                              | N/A               | 2535.00   | 21100 | Mid  | LTE Band 7 | 20              | 24.6                        | 24.12                 | -0.03            | 0                    | 1382M                | QPSK       | 1       | 0         | 10 mm   | front  | 1:1        | 1.070    | 1.117          | 1.195             |        |
| 1 CC Uplink                              | N/A               | 2560.00   | 21350 | High | LTE Band 7 | 20              | 24.6                        | 24.07                 | 0.01             | 0                    | 1382M                | QPSK       | 1       | 0         | 10 mm   | front  | 1:1        | 1.060    | 1.130          | 1.198             |        |
| 1 CC Uplink                              | N/A               | 2510.00   | 20850 | Low  | LTE Band 7 | 20              | 23.6                        | 23.22                 | -0.02            | 1                    | 1382M                | QPSK       | 50      | 0         | 10 mm   | front  | 1:1        | 0.558    | 1.091          | 0.609             |        |
| 1 CC Uplink                              | N/A               | 2510.00   | 20850 | Low  | LTE Band 7 | 20              | 23.6                        | 23.20                 | -0.02            | 1                    | 1382M                | QPSK       | 100     | 0         | 10 mm   | front  | 1:1        | 0.616    | 1.096          | 0.675             |        |
| 1 CC Uplink                              | N/A               | 2510.00   | 20850 | Low  | LTE Band 7 | 20              | 24.6                        | 24.17                 | -0.05            | 0                    | 1382M                | QPSK       | 1       | 99        | 13 mm   | bottom | 1:1        | 1.100    | 1.104          | 1.214             |        |
| 1 CC Uplink                              | N/A               | 2535.00   | 21100 | Mid  | LTE Band 7 | 20              | 24.6                        | 24.12                 | -0.01            | 0                    | 1382M                | QPSK       | 1       | 0         | 13 mm   | bottom | 1:1        | 1.190    | 1.117          | 1.329             |        |
| 1 CC Uplink                              | N/A               | 2560.00   | 21350 | High | LTE Band 7 | 20              | 24.6                        | 24.07                 | -0.03            | 0                    | 1382M                | QPSK       | 1       | 0         | 13 mm   | bottom | 1:1        | 1.230    | 1.130          | 1.390             | A77    |
| 1 CC Uplink                              | N/A               | 2510.00   | 20850 | Low  | LTE Band 7 | 20              | 23.6                        | 23.22                 | -0.02            | 1                    | 1382M                | QPSK       | 50      | 0         | 13 mm   | bottom | 1:1        | 0.639    | 1.091          | 0.697             |        |
| 1 CC Uplink                              | N/A               | 2510.00   | 20850 | Low  | LTE Band 7 | 20              | 23.6                        | 23.20                 | -0.01            | 1                    | 1382M                | QPSK       | 100     | 0         | 13 mm   | bottom | 1:1        | 0.726    | 1.096          | 0.796             |        |
| 2 CC Uplink                              | PCC               | 2510.00   | 20850 | Low  | LTE Band 7 | 20              | 24.6                        | 23.80                 | 0.01             | 0                    | 1382M                | QPSK       | 1       | 99        | 13 mm   | bottom | 1:1        | 0.992    | 1.202          | 1.192             |        |
|                                          | SCC               | 2529.80   | 21048 | Low  | LTE Band 7 | 20              |                             |                       |                  |                      |                      |            | 1       | 0         |         |        |            |          |                |                   |        |
| 2 CC Uplink                              | PCC               | 2535.00   | 21100 | Mid  | LTE Band 7 | 20              | 24.6                        | 24.07                 | -0.06            | 0                    | 1382M                | QPSK       | 1       | 0         | 13 mm   | bottom | 1:1        | 1.230    | 1.130          | 1.390             |        |
|                                          | SCC               | 2515.20   | 20902 | Mid  | LTE Band 7 | 20              |                             |                       |                  |                      |                      |            | 1       | 99        |         |        |            |          |                |                   |        |
| 2 CC Uplink                              | PCC               | 2560.00   | 21350 | High | LTE Band 7 | 20              | 24.6                        | 23.90                 | -0.03            | 0                    | 1382M                | QPSK       | 1       | 0         | 13 mm   | bottom | 1:1        | 1.190    | 1.175          | 1.398             |        |
|                                          | SCC               | 2540.20   | 21152 | High | LTE Band 7 | 20              |                             |                       |                  |                      |                      |            | 1       | 99        |         |        |            |          |                |                   |        |
| 1 CC Uplink                              | N/A               | 2510.00   | 20850 | Low  | LTE Band 7 | 20              | 24.6                        | 24.17                 | 0.02             | 0                    | 1382M                | QPSK       | 1       | 99        | 10 mm   | right  | 1:1        | 0.415    | 1.104          | 0.458             |        |
| 1 CC Uplink                              | N/A               | 2510.00   | 20850 | Low  | LTE Band 7 | 20              | 23.6                        | 23.22                 | 0.06             | 1                    | 1382M                | QPSK       | 50      | 0         | 10 mm   | right  | 1:1        | 0.227    | 1.091          | 0.248             |        |
| 1 CC Uplink                              | N/A               | 2510.00   | 20850 | Low  | LTE Band 7 | 20              | 19.5                        | 18.78                 | -0.03            | 0                    | 1407M                | QPSK       | 1       | 99        | 10 mm   | bottom | 1:1        | 0.431    | 1.180          | 0.509             |        |
| 1 CC Uplink                              | N/A               | 2510.00   | 20850 | Low  | LTE Band 7 | 20              | 19.5                        | 18.97                 | -0.06            | 0                    | 1407M                | QPSK       | 50      | 50        | 10 mm   | bottom | 1:1        | 0.428    | 1.130          | 0.484             |        |
| 1 CC Uplink                              | N/A               | 2510.00   | 20850 | Low  | LTE Band 7 | 20              | 24.6                        | 24.17                 | -0.07            | 0                    | 1382M                | QPSK       | 1       | 99        | 13 mm   | bottom | 1:1        | 1.140    | 1.104          | 1.259             |        |
| 1 CC Uplink                              | N/A               | 2560.00   | 21350 | High | LTE Band 7 | 20              | 24.6                        | 24.07                 | 0.06             | 0                    | 1382M                | QPSK       | 1       | 0         | 13 mm   | bottom | 1:1        | 1.200    | 1.130          | 1.356             |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT    |                   |           |       |      |            |                 |                             |                       |                  | UMPC Body            |                      |            |         |           |         |        |            |          |                |                   |        |
| Spatial Peak                             |                   |           |       |      |            |                 |                             |                       |                  | 1.6 W/kg (mW/g)      |                      |            |         |           |         |        |            |          |                |                   |        |
| Uncontrolled Exposure/General Population |                   |           |       |      |            |                 |                             |                       |                  | averaged over 1 gram |                      |            |         |           |         |        |            |          |                |                   |        |

Note: Blue entries represent variability measurements

|                                                |                                                                                     |                                      |                                                                                       |                                        |
|------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMF900F                             |  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                             | <b>DUT Type:</b><br>Portable Handset | Page 115 of 176                                                                       |                                        |

**Table 11-56**  
**LTE Band 41 UMPC Body 1g SAR Data**

| 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)            |        |
| 2506.00                                  | 39750 | Low      | LTE Band 41     | 20                          | 25.0                  | 24.30            | -0.01    | 0                    | 1404M      | QPSK    | 1         | 0       | 10 mm | back       | 1:1.58   | 0.705          | 1.175             | 0.828  |
| 2549.50                                  | 40185 | Low-Mid  | LTE Band 41     | 20                          | 25.0                  | 24.23            | -0.01    | 0                    | 1404M      | QPSK    | 1         | 0       | 10 mm | back       | 1:1.58   | 0.724          | 1.194             | 0.864  |
| 2593.00                                  | 40620 | Mid      | LTE Band 41     | 20                          | 25.0                  | 24.18            | 0.00     | 0                    | 1404M      | QPSK    | 1         | 0       | 10 mm | back       | 1:1.58   | 0.770          | 1.208             | 0.930  |
| 2636.50                                  | 41055 | Mid-High | LTE Band 41     | 20                          | 25.0                  | 24.35            | -0.01    | 0                    | 1404M      | QPSK    | 1         | 0       | 10 mm | back       | 1:1.58   | 0.794          | 1.161             | 0.922  |
| 2680.00                                  | 41490 | High     | LTE Band 41     | 20                          | 25.0                  | 24.29            | -0.14    | 0                    | 1404M      | QPSK    | 1         | 99      | 10 mm | back       | 1:1.58   | 0.791          | 1.178             | 0.932  |
| 2506.00                                  | 39750 | Low      | LTE Band 41     | 20                          | 24.0                  | 23.47            | -0.02    | 1                    | 1404M      | QPSK    | 50        | 50      | 10 mm | back       | 1:1.58   | 0.578          | 1.130             | 0.653  |
| 2549.50                                  | 40185 | Low-Mid  | LTE Band 41     | 20                          | 24.0                  | 23.43            | 0.00     | 1                    | 1404M      | QPSK    | 50        | 25      | 10 mm | back       | 1:1.58   | 0.597          | 1.140             | 0.681  |
| 2593.00                                  | 40620 | Mid      | LTE Band 41     | 20                          | 24.0                  | 23.42            | -0.15    | 1                    | 1404M      | QPSK    | 50        | 25      | 10 mm | back       | 1:1.58   | 0.653          | 1.143             | 0.746  |
| 2636.50                                  | 41055 | Mid-High | LTE Band 41     | 20                          | 24.0                  | 23.52            | 0.05     | 1                    | 1404M      | QPSK    | 50        | 0       | 10 mm | back       | 1:1.58   | 0.642          | 1.117             | 0.717  |
| 2680.00                                  | 41490 | High     | LTE Band 41     | 20                          | 24.0                  | 23.47            | -0.10    | 1                    | 1404M      | QPSK    | 50        | 50      | 10 mm | back       | 1:1.58   | 0.647          | 1.130             | 0.731  |
| 2680.00                                  | 41490 | High     | LTE Band 41     | 20                          | 24.0                  | 23.45            | -0.13    | 1                    | 1404M      | QPSK    | 100       | 0       | 10 mm | back       | 1:1.58   | 0.642          | 1.135             | 0.729  |
| 2506.00                                  | 39750 | Low      | LTE Band 41     | 20                          | 25.0                  | 24.30            | 0.04     | 0                    | 1404M      | QPSK    | 1         | 0       | 10 mm | front      | 1:1.58   | 0.638          | 1.175             | 0.750  |
| 2549.50                                  | 40185 | Low-Mid  | LTE Band 41     | 20                          | 25.0                  | 24.23            | 0.06     | 0                    | 1404M      | QPSK    | 1         | 0       | 10 mm | front      | 1:1.58   | 0.702          | 1.194             | 0.838  |
| 2593.00                                  | 40620 | Mid      | LTE Band 41     | 20                          | 25.0                  | 24.18            | 0.07     | 0                    | 1404M      | QPSK    | 1         | 0       | 10 mm | front      | 1:1.58   | 0.756          | 1.208             | 0.913  |
| 2636.50                                  | 41055 | Mid-High | LTE Band 41     | 20                          | 25.0                  | 24.35            | 0.01     | 0                    | 1404M      | QPSK    | 1         | 0       | 10 mm | front      | 1:1.58   | 0.714          | 1.161             | 0.829  |
| 2680.00                                  | 41490 | High     | LTE Band 41     | 20                          | 25.0                  | 24.29            | 0.04     | 0                    | 1404M      | QPSK    | 1         | 99      | 10 mm | front      | 1:1.58   | 0.764          | 1.178             | 0.900  |
| 2506.00                                  | 39750 | Low      | LTE Band 41     | 20                          | 24.0                  | 23.47            | 0.11     | 1                    | 1404M      | QPSK    | 50        | 50      | 10 mm | front      | 1:1.58   | 0.562          | 1.130             | 0.635  |
| 2549.50                                  | 40185 | Low-Mid  | LTE Band 41     | 20                          | 24.0                  | 23.43            | 0.10     | 1                    | 1404M      | QPSK    | 50        | 25      | 10 mm | front      | 1:1.58   | 0.583          | 1.140             | 0.665  |
| 2593.00                                  | 40620 | Mid      | LTE Band 41     | 20                          | 24.0                  | 23.42            | 0.07     | 1                    | 1404M      | QPSK    | 50        | 25      | 10 mm | front      | 1:1.58   | 0.612          | 1.143             | 0.700  |
| 2636.50                                  | 41055 | Mid-High | LTE Band 41     | 20                          | 24.0                  | 23.52            | 0.02     | 1                    | 1404M      | QPSK    | 50        | 0       | 10 mm | front      | 1:1.58   | 0.572          | 1.117             | 0.639  |
| 2680.00                                  | 41490 | High     | LTE Band 41     | 20                          | 24.0                  | 23.47            | -0.01    | 1                    | 1404M      | QPSK    | 50        | 50      | 10 mm | front      | 1:1.58   | 0.608          | 1.130             | 0.687  |
| 2680.00                                  | 41490 | High     | LTE Band 41     | 20                          | 24.0                  | 23.45            | 0.04     | 1                    | 1404M      | QPSK    | 100       | 0       | 10 mm | front      | 1:1.58   | 0.605          | 1.135             | 0.687  |
| 2506.00                                  | 39750 | Low      | LTE Band 41     | 20                          | 25.0                  | 24.30            | -0.03    | 0                    | 1404M      | QPSK    | 1         | 0       | 13 mm | bottom     | 1:1.58   | 0.810          | 1.175             | 0.952  |
| 2549.50                                  | 40185 | Low-Mid  | LTE Band 41     | 20                          | 25.0                  | 24.23            | 0.02     | 0                    | 1404M      | QPSK    | 1         | 0       | 13 mm | bottom     | 1:1.58   | 0.822          | 1.194             | 0.981  |
| 2593.00                                  | 40620 | Mid      | LTE Band 41     | 20                          | 25.0                  | 24.18            | -0.05    | 0                    | 1404M      | QPSK    | 1         | 0       | 13 mm | bottom     | 1:1.58   | 0.857          | 1.208             | 1.035  |
| 2636.50                                  | 41055 | Mid-High | LTE Band 41     | 20                          | 25.0                  | 24.35            | 0.00     | 0                    | 1404M      | QPSK    | 1         | 0       | 13 mm | bottom     | 1:1.58   | 0.901          | 1.161             | 1.046  |
| 2680.00                                  | 41490 | High     | LTE Band 41     | 20                          | 25.0                  | 24.29            | 0.03     | 0                    | 1404M      | QPSK    | 1         | 99      | 13 mm | bottom     | 1:1.58   | 0.942          | 1.178             | 1.110  |
| 2506.00                                  | 39750 | Low      | LTE Band 41     | 20                          | 24.0                  | 23.47            | -0.03    | 1                    | 1404M      | QPSK    | 50        | 50      | 13 mm | bottom     | 1:1.58   | 0.657          | 1.130             | 0.742  |
| 2549.50                                  | 40185 | Low-Mid  | LTE Band 41     | 20                          | 24.0                  | 23.43            | -0.04    | 1                    | 1404M      | QPSK    | 50        | 25      | 13 mm | bottom     | 1:1.58   | 0.677          | 1.140             | 0.772  |
| 2593.00                                  | 40620 | Mid      | LTE Band 41     | 20                          | 24.0                  | 23.42            | -0.04    | 1                    | 1404M      | QPSK    | 50        | 25      | 13 mm | bottom     | 1:1.58   | 0.714          | 1.143             | 0.816  |
| 2636.50                                  | 41055 | Mid-High | LTE Band 41     | 20                          | 24.0                  | 23.52            | -0.02    | 1                    | 1404M      | QPSK    | 50        | 0       | 13 mm | bottom     | 1:1.58   | 0.725          | 1.117             | 0.810  |
| 2680.00                                  | 41490 | High     | LTE Band 41     | 20                          | 24.0                  | 23.47            | -0.01    | 1                    | 1404M      | QPSK    | 50        | 50      | 13 mm | bottom     | 1:1.58   | 0.756          | 1.130             | 0.854  |
| 2680.00                                  | 41490 | High     | LTE Band 41     | 20                          | 24.0                  | 23.45            | 0.00     | 1                    | 1404M      | QPSK    | 100       | 0       | 13 mm | bottom     | 1:1.58   | 0.739          | 1.135             | 0.839  |
| 2636.50                                  | 41055 | Mid-High | LTE Band 41     | 20                          | 25.0                  | 24.35            | -0.07    | 0                    | 1404M      | QPSK    | 1         | 0       | 10 mm | right      | 1:1.58   | 0.381          | 1.161             | 0.442  |
| 2636.50                                  | 41055 | Mid-High | LTE Band 41     | 20                          | 24.0                  | 23.52            | -0.08    | 1                    | 1404M      | QPSK    | 50        | 0       | 10 mm | right      | 1:1.58   | 0.321          | 1.117             | 0.359  |
| 2506.00                                  | 39750 | Low      | LTE Band 41     | 20                          | 21.5                  | 20.17            | -0.09    | 0                    | 1404M      | QPSK    | 1         | 0       | 10 mm | bottom     | 1:1.58   | 0.499          | 1.358             | 0.678  |
| 2549.50                                  | 40185 | Low-Mid  | LTE Band 41     | 20                          | 21.5                  | 20.25            | -0.07    | 0                    | 1404M      | QPSK    | 1         | 0       | 10 mm | bottom     | 1:1.58   | 0.502          | 1.334             | 0.670  |
| 2593.00                                  | 40620 | Mid      | LTE Band 41     | 20                          | 21.5                  | 20.05            | -0.06    | 0                    | 1404M      | QPSK    | 1         | 0       | 10 mm | bottom     | 1:1.58   | 0.517          | 1.396             | 0.722  |
| 2636.50                                  | 41055 | Mid-High | LTE Band 41     | 20                          | 21.5                  | 20.18            | -0.05    | 0                    | 1404M      | QPSK    | 1         | 0       | 10 mm | bottom     | 1:1.58   | 0.559          | 1.355             | 0.757  |
| 2680.00                                  | 41490 | High     | LTE Band 41     | 20                          | 21.5                  | 20.10            | -0.06    | 0                    | 1404M      | QPSK    | 1         | 99      | 10 mm | bottom     | 1:1.58   | 0.596          | 1.380             | 0.822  |
| 2506.00                                  | 39750 | Low      | LTE Band 41     | 20                          | 21.5                  | 20.25            | -0.09    | 0                    | 1404M      | QPSK    | 50        | 0       | 10 mm | bottom     | 1:1.58   | 0.512          | 1.334             | 0.683  |
| 2549.50                                  | 40185 | Low-Mid  | LTE Band 41     | 20                          | 21.5                  | 20.26            | -0.05    | 0                    | 1404M      | QPSK    | 50        | 0       | 10 mm | bottom     | 1:1.58   | 0.517          | 1.330             | 0.688  |
| 2593.00                                  | 40620 | Mid      | LTE Band 41     | 20                          | 21.5                  | 20.25            | -0.06    | 0                    | 1404M      | QPSK    | 50        | 0       | 10 mm | bottom     | 1:1.58   | 0.542          | 1.334             | 0.723  |
| 2636.50                                  | 41055 | Mid-High | LTE Band 41     | 20                          | 21.5                  | 20.27            | -0.02    | 0                    | 1404M      | QPSK    | 50        | 0       | 10 mm | bottom     | 1:1.58   | 0.568          | 1.327             | 0.754  |
| 2680.00                                  | 41490 | High     | LTE Band 41     | 20                          | 21.5                  | 20.23            | -0.02    | 0                    | 1404M      | QPSK    | 50        | 0       | 10 mm | bottom     | 1:1.58   | 0.573          | 1.340             | 0.768  |
| 2506.00                                  | 39750 | Low      | LTE Band 41     | 20                          | 21.5                  | 20.24            | -0.06    | 0                    | 1404M      | QPSK    | 100       | 0       | 10 mm | bottom     | 1:1.58   | 0.498          | 1.337             | 0.666  |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT    |       |          |                 |                             |                       |                  |          | UMPC Body            |            |         |           |         |       |            |          |                |                   |        |
| Spatial Peak                             |       |          |                 |                             |                       |                  |          | 1.6 W/kg (mW/g)      |            |         |           |         |       |            |          |                |                   |        |
| Uncontrolled Exposure/General Population |       |          |                 |                             |                       |                  |          | averaged over 1 gram |            |         |           |         |       |            |          |                |                   |        |

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 116 of 176                 |

**Table 11-57**  
**DTS SISO UMPC Body 1g SAR Data**

| 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              | 20.0                        | 19.97                 | 0.10             | 10 mm                | 1               | 1385M                | 1                | back  | 99.9           | 0.550                 | 0.387    | 1.007                  | 1.001                       | 0.390             |        |
| 2412                                     | 1   | 802.11b | DSSS    | 22              | 20.0                        | 19.97                 | 0.03             | 10 mm                | 1               | 1385M                | 1                | front | 99.9           | 0.493                 | 0.418    | 1.007                  | 1.001                       | 0.421             |        |
| 2412                                     | 1   | 802.11b | DSSS    | 22              | 20.0                        | 19.97                 | 0.04             | 10 mm                | 1               | 1385M                | 1                | top   | 99.9           | 0.635                 | 0.493    | 1.007                  | 1.001                       | 0.497             | A79    |
| 2412                                     | 1   | 802.11b | DSSS    | 22              | 20.0                        | 19.97                 | 0.17             | 10 mm                | 1               | 1385M                | 1                | right | 99.9           | 0.451                 | -        | 1.007                  | 1.001                       | -                 |        |
| 2412                                     | 1   | 802.11b | DSSS    | 22              | 20.0                        | 19.98                 | 0.04             | 10 mm                | 2               | 1385M                | 1                | back  | 99.9           | 0.229                 | 0.207    | 1.005                  | 1.001                       | 0.208             |        |
| 2412                                     | 1   | 802.11b | DSSS    | 22              | 20.0                        | 19.98                 | 0.09             | 10 mm                | 2               | 1385M                | 1                | front | 99.9           | 0.124                 | -        | 1.005                  | 1.001                       | -                 |        |
| 2412                                     | 1   | 802.11b | DSSS    | 22              | 20.0                        | 19.98                 | 0.12             | 10 mm                | 2               | 1385M                | 1                | top   | 99.9           | 0.218                 | -        | 1.005                  | 1.001                       | -                 |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT    |     |         |         |                 |                             |                       |                  | UMPC Body            |                 |                      |                  |       |                |                       |          |                        |                             |                   |        |
| Spatial Peak                             |     |         |         |                 |                             |                       |                  | 1.6 W/kg (mW/g)      |                 |                      |                  |       |                |                       |          |                        |                             |                   |        |
| Uncontrolled Exposure/General Population |     |         |         |                 |                             |                       |                  | averaged over 1 gram |                 |                      |                  |       |                |                       |          |                        |                             |                   |        |

**Table 11-58**  
**DTS MIMO UMPC Body 1g SAR Data**

| MEASUREMENT RESULTS                      |     |         |         |                 |                                     |                               |                                     |                               |                  |                      |                 |                      |                  |       |                |                       |          |                        |                             |                   |        |
|------------------------------------------|-----|---------|---------|-----------------|-------------------------------------|-------------------------------|-------------------------------------|-------------------------------|------------------|----------------------|-----------------|----------------------|------------------|-------|----------------|-----------------------|----------|------------------------|-----------------------------|-------------------|--------|
| FREQUENCY                                |     | Mode    | Service | Bandwidth [MHz] | Maximum Allowed Power (Ant 1) [dBm] | Conducted Power (Ant 1) [dBm] | Maximum Allowed Power (Ant 2) [dBm] | Conducted Power (Ant 2) [dBm] | Power Drift [dB] | Spacing              | Antenna Config. | Device Serial Number | Data Rate (Mbps) | Side  | Duty Cycle (%) | Peak SAR of Area Scan | SAR (1g) | Scaling Factor (Power) | Scaling Factor (Duty Cycle) | Reported SAR (1g) | Plot # |
| MHz                                      | Ch. |         |         |                 |                                     |                               |                                     |                               |                  |                      |                 |                      |                  |       |                | W/kg                  | (W/kg)   | (W/kg)                 |                             |                   |        |
| 2452                                     | 9   | 802.11n | OFDM    | 20              | 18.0                                | 17.96                         | 18.0                                | 17.85                         | -0.02            | 10 mm                | MIMO            | 1360M                | 13               | back  | 98.7           | 0.465                 | 0.294    | 1.035                  | 1.013                       | 0.308             |        |
| 2452                                     | 9   | 802.11n | OFDM    | 20              | 18.0                                | 17.96                         | 18.0                                | 17.85                         | -0.10            | 10 mm                | MIMO            | 1360M                | 13               | front | 98.7           | 0.461                 | 0.298    | 1.035                  | 1.013                       | 0.312             |        |
| 2452                                     | 9   | 802.11n | OFDM    | 20              | 18.0                                | 17.96                         | 18.0                                | 17.85                         | -0.02            | 10 mm                | MIMO            | 1360M                | 13               | top   | 98.7           | 0.603                 | 0.407    | 1.035                  | 1.013                       | 0.427             |        |
| 2452                                     | 9   | 802.11n | OFDM    | 20              | 18.0                                | 17.96                         | 18.0                                | 17.85                         | 0.03             | 10 mm                | MIMO            | 1360M                | 13               | right | 98.7           | 0.313                 | -        | 1.035                  | 1.013                       | -                 |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT    |     |         |         |                 |                                     |                               |                                     |                               |                  | UMPC Body            |                 |                      |                  |       |                |                       |          |                        |                             |                   |        |
| Spatial Peak                             |     |         |         |                 |                                     |                               |                                     |                               |                  | 1.6 W/kg (mW/g)      |                 |                      |                  |       |                |                       |          |                        |                             |                   |        |
| Uncontrolled Exposure/General Population |     |         |         |                 |                                     |                               |                                     |                               |                  | averaged over 1 gram |                 |                      |                  |       |                |                       |          |                        |                             |                   |        |

To achieve the 21.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 18.0 dBm

**Table 11-59**  
**DTS MIMO UMPC Body 1g SAR Data for Conditions with 2.4 GHz and 5 GHz WLAN SAR**

| MEASUREMENT RESULTS                      |     |         |         |                 |                                     |                               |                                     |                               |                  |                      |                 |                      |                  |       |                |                       |          |                        |                             |                   |        |
|------------------------------------------|-----|---------|---------|-----------------|-------------------------------------|-------------------------------|-------------------------------------|-------------------------------|------------------|----------------------|-----------------|----------------------|------------------|-------|----------------|-----------------------|----------|------------------------|-----------------------------|-------------------|--------|
| FREQUENCY                                |     | Mode    | Service | Bandwidth [MHz] | Maximum Allowed Power (Ant 1) [dBm] | Conducted Power (Ant 1) [dBm] | Maximum Allowed Power (Ant 2) [dBm] | Conducted Power (Ant 2) [dBm] | Power Drift [dB] | Spacing              | Antenna Config. | Device Serial Number | Data Rate (Mbps) | Side  | Duty Cycle (%) | Peak SAR of Area Scan | SAR (1g) | Scaling Factor (Power) | Scaling Factor (Duty Cycle) | Reported SAR (1g) | Plot # |
| MHz                                      | Ch. |         |         |                 |                                     |                               |                                     |                               |                  |                      |                 |                      |                  |       |                | W/kg                  | (W/kg)   |                        |                             | (W/kg)            |        |
| 2457                                     | 10  | 802.11n | OFDM    | 20              | 17.0                                | 16.76                         | 17.0                                | 16.62                         | -0.01            | 10 mm                | MIMO            | 1360M                | 13               | back  | 98.7           | 0.317                 | 0.208    | 1.091                  | 1.013                       | 0.230             |        |
| 2457                                     | 10  | 802.11n | OFDM    | 20              | 17.0                                | 16.76                         | 17.0                                | 16.62                         | -0.07            | 10 mm                | MIMO            | 1360M                | 13               | front | 98.7           | 0.353                 | 0.206    | 1.091                  | 1.013                       | 0.228             |        |
| 2457                                     | 10  | 802.11n | OFDM    | 20              | 17.0                                | 16.76                         | 17.0                                | 16.62                         | -0.02            | 10 mm                | MIMO            | 1360M                | 13               | top   | 98.7           | 0.419                 | 0.256    | 1.091                  | 1.013                       | 0.283             |        |
| 2457                                     | 10  | 802.11n | OFDM    | 20              | 17.0                                | 16.76                         | 17.0                                | 16.62                         | 0.00             | 10 mm                | MIMO            | 1360M                | 13               | right | 98.7           | 0.191                 | -        | 1.091                  | 1.013                       | -                 |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT    |     |         |         |                 |                                     |                               |                                     |                               |                  | UMPC Body            |                 |                      |                  |       |                |                       |          |                        |                             |                   |        |
| Spatial Peak                             |     |         |         |                 |                                     |                               |                                     |                               |                  | 1.6 W/kg (mW/g)      |                 |                      |                  |       |                |                       |          |                        |                             |                   |        |
| Uncontrolled Exposure/General Population |     |         |         |                 |                                     |                               |                                     |                               |                  | averaged over 1 gram |                 |                      |                  |       |                |                       |          |                        |                             |                   |        |

DTS MIMO was additionally evaluated at the maximum allowed output power during operations with Simultaneous 2.4 GHz and 5 GHz WLAN. 5 GHz WIFI was not transmitting during the above evaluations.

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 117 of 176                 |

**Table 11-60**  
**NII SISO UMPC Body 1g SAR Data**

| 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)            |        |
| 5320                                     | 64  | 802.11a | OFDM    | 20              | 18.0                        | 17.91                 | -0.03            | 10 mm                | 1               | 1360M                | 6                | back  | 98.8           | 1.026                 | 0.475    | 1.021                  | 1.013                       | 0.491             |        |
| 5320                                     | 64  | 802.11a | OFDM    | 20              | 18.0                        | 17.91                 | -0.17            | 10 mm                | 1               | 1360M                | 6                | front | 98.8           | 0.182                 | -        | 1.021                  | 1.013                       | -                 |        |
| 5320                                     | 64  | 802.11a | OFDM    | 20              | 18.0                        | 17.91                 | 0.09             | 10 mm                | 1               | 1360M                | 6                | top   | 98.8           | 0.346                 | 0.161    | 1.021                  | 1.013                       | 0.167             |        |
| 5320                                     | 64  | 802.11a | OFDM    | 20              | 18.0                        | 17.91                 | -0.08            | 10 mm                | 1               | 1360M                | 6                | right | 98.8           | 0.085                 | -        | 1.021                  | 1.013                       | -                 |        |
| 5280                                     | 56  | 802.11a | OFDM    | 20              | 18.0                        | 17.99                 | 0.04             | 10 mm                | 2               | 1360M                | 6                | back  | 98.7           | 0.211                 | 0.101    | 1.002                  | 1.013                       | 0.103             |        |
| 5280                                     | 56  | 802.11a | OFDM    | 20              | 18.0                        | 17.99                 | 0.09             | 10 mm                | 2               | 1360M                | 6                | front | 98.7           | 0.186                 | -        | 1.002                  | 1.013                       | -                 |        |
| 5280                                     | 56  | 802.11a | OFDM    | 20              | 18.0                        | 17.99                 | 0.00             | 10 mm                | 2               | 1360M                | 6                | top   | 98.7           | 0.363                 | 0.146    | 1.002                  | 1.013                       | 0.148             |        |
| 5500                                     | 100 | 802.11a | OFDM    | 20              | 18.0                        | 17.94                 | 0.01             | 10 mm                | 1               | 1360M                | 6                | back  | 98.8           | 1.692                 | 0.722    | 1.014                  | 1.013                       | 0.742             | A80    |
| 5600                                     | 120 | 802.11a | OFDM    | 20              | 18.0                        | 17.74                 | -0.05            | 10 mm                | 1               | 1360M                | 6                | back  | 98.8           | 1.142                 | 0.548    | 1.062                  | 1.013                       | 0.590             |        |
| 5720                                     | 144 | 802.11a | OFDM    | 20              | 18.0                        | 17.83                 | 0.15             | 10 mm                | 1               | 1360M                | 6                | back  | 98.8           | 0.541                 | 0.265    | 1.040                  | 1.013                       | 0.279             |        |
| 5500                                     | 100 | 802.11a | OFDM    | 20              | 18.0                        | 17.94                 | 0.06             | 10 mm                | 1               | 1360M                | 6                | front | 98.8           | 0.446                 | 0.167    | 1.014                  | 1.013                       | 0.172             |        |
| 5500                                     | 100 | 802.11a | OFDM    | 20              | 18.0                        | 17.94                 | 0.07             | 10 mm                | 1               | 1360M                | 6                | top   | 98.8           | 0.422                 | -        | 1.014                  | 1.013                       | -                 |        |
| 5500                                     | 100 | 802.11a | OFDM    | 20              | 18.0                        | 17.94                 | -0.03            | 10 mm                | 1               | 1360M                | 6                | right | 98.8           | 0.075                 | -        | 1.014                  | 1.013                       | -                 |        |
| 5720                                     | 144 | 802.11a | OFDM    | 20              | 18.0                        | 17.98                 | -0.08            | 10 mm                | 2               | 1360M                | 6                | back  | 98.7           | 0.135                 | 0.060    | 1.005                  | 1.013                       | 0.061             |        |
| 5720                                     | 144 | 802.11a | OFDM    | 20              | 18.0                        | 17.98                 | 0.09             | 10 mm                | 2               | 1360M                | 6                | front | 98.7           | 0.227                 | -        | 1.005                  | 1.013                       | -                 |        |
| 5720                                     | 144 | 802.11a | OFDM    | 20              | 18.0                        | 17.98                 | 0.03             | 10 mm                | 2               | 1360M                | 6                | top   | 98.7           | 0.561                 | 0.221    | 1.005                  | 1.013                       | 0.225             |        |
| 5785                                     | 157 | 802.11a | OFDM    | 20              | 18.0                        | 17.97                 | -0.13            | 10 mm                | 1               | 1360M                | 6                | back  | 98.8           | 0.527                 | 0.252    | 1.007                  | 1.013                       | 0.257             |        |
| 5785                                     | 157 | 802.11a | OFDM    | 20              | 18.0                        | 17.97                 | -0.13            | 10 mm                | 1               | 1360M                | 6                | front | 98.8           | 0.360                 | -        | 1.007                  | 1.013                       | -                 |        |
| 5785                                     | 157 | 802.11a | OFDM    | 20              | 18.0                        | 17.97                 | -0.17            | 10 mm                | 1               | 1360M                | 6                | top   | 98.8           | 0.196                 | -        | 1.007                  | 1.013                       | -                 |        |
| 5785                                     | 157 | 802.11a | OFDM    | 20              | 18.0                        | 17.97                 | -0.07            | 10 mm                | 1               | 1360M                | 6                | right | 98.8           | 0.133                 | -        | 1.007                  | 1.013                       | -                 |        |
| 5785                                     | 157 | 802.11a | OFDM    | 20              | 18.0                        | 17.86                 | 0.07             | 10 mm                | 2               | 1360M                | 6                | back  | 98.7           | 0.110                 | 0.046    | 1.033                  | 1.013                       | 0.048             |        |
| 5785                                     | 157 | 802.11a | OFDM    | 20              | 18.0                        | 17.86                 | -0.03            | 10 mm                | 2               | 1360M                | 6                | front | 98.7           | 0.154                 | -        | 1.033                  | 1.013                       | -                 |        |
| 5785                                     | 157 | 802.11a | OFDM    | 20              | 18.0                        | 17.86                 | 0.06             | 10 mm                | 2               | 1360M                | 6                | top   | 98.7           | 0.436                 | 0.181    | 1.033                  | 1.013                       | 0.189             |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT    |     |         |         |                 |                             |                       |                  | UMPC Body            |                 |                      |                  |       |                |                       |          |                        |                             |                   |        |
| Spatial Peak                             |     |         |         |                 |                             |                       |                  | 1.6 W/kg (mW/g)      |                 |                      |                  |       |                |                       |          |                        |                             |                   |        |
| Uncontrolled Exposure/General Population |     |         |         |                 |                             |                       |                  | averaged over 1 gram |                 |                      |                  |       |                |                       |          |                        |                             |                   |        |

**Table 11-61**  
**NII MIMO UMPC Body 1g SAR Data**

| MEASUREMENT RESULTS                      |     |         |         |                 |                                     |                               |                                     |                               |                  |         |                 |                      |                  |       |                |                       |          |                        |                             |                   |        |
|------------------------------------------|-----|---------|---------|-----------------|-------------------------------------|-------------------------------|-------------------------------------|-------------------------------|------------------|---------|-----------------|----------------------|------------------|-------|----------------|-----------------------|----------|------------------------|-----------------------------|-------------------|--------|
| FREQUENCY                                |     | Mode    | Service | Bandwidth [MHz] | Maximum Allowed Power (Ant 1) [dBm] | Conducted Power (Ant 1) [dBm] | Maximum Allowed Power (Ant 2) [dBm] | Conducted Power (Ant 2) [dBm] | Power Drift [dB] | Spacing | Antenna Config. | Device Serial Number | Data Rate (Mbps) | Side  | Duty Cycle (%) | Peak SAR of Area Scan | SAR (1g) | Scaling Factor (Power) | Scaling Factor (Duty Cycle) | Reported SAR (1g) | Plot # |
| MHz                                      | Ch. |         |         |                 |                                     |                               |                                     |                               |                  |         |                 |                      |                  |       |                | W/kg                  | (W/kg)   |                        |                             | (W/kg)            |        |
| 5280                                     | 56  | 802.11n | OFDM    | 20              | 18.0                                | 17.90                         | 18.0                                | 17.99                         | 0.02             | 10 mm   | MIMO            | 1360M                | 13               | back  | 98.6           | 0.774                 | 0.399    | 1.023                  | 1.014                       | 0.414             |        |
| 5280                                     | 56  | 802.11n | OFDM    | 20              | 18.0                                | 17.90                         | 18.0                                | 17.99                         | 0.07             | 10 mm   | MIMO            | 1360M                | 13               | front | 98.6           | 0.237                 | 0.094    | 1.023                  | 1.014                       | 0.098             |        |
| 5280                                     | 56  | 802.11n | OFDM    | 20              | 18.0                                | 17.90                         | 18.0                                | 17.99                         | -0.16            | 10 mm   | MIMO            | 1360M                | 13               | top   | 98.6           | 0.428                 | 0.172    | 1.023                  | 1.014                       | 0.178             |        |
| 5280                                     | 56  | 802.11n | OFDM    | 20              | 18.0                                | 17.90                         | 18.0                                | 17.99                         | -0.16            | 10 mm   | MIMO            | 1360M                | 13               | right | 98.6           | 0.117                 | -        | 1.023                  | 1.014                       | -                 |        |
| 5500                                     | 100 | 802.11n | OFDM    | 20              | 18.0                                | 17.94                         | 18.0                                | 17.86                         | -0.05            | 10 mm   | MIMO            | 1360M                | 13               | back  | 98.6           | 1.297                 | 0.640    | 1.033                  | 1.014                       | 0.670             |        |
| 5620                                     | 124 | 802.11n | OFDM    | 20              | 18.0                                | 17.72                         | 18.0                                | 17.71                         | -0.04            | 10 mm   | MIMO            | 1360M                | 13               | back  | 98.6           | 0.888                 | 0.413    | 1.069                  | 1.014                       | 0.448             |        |
| 5720                                     | 144 | 802.11n | OFDM    | 20              | 18.0                                | 17.82                         | 18.0                                | 17.96                         | 0.14             | 10 mm   | MIMO            | 1360M                | 13               | back  | 98.6           | 0.606                 | 0.277    | 1.042                  | 1.014                       | 0.293             |        |
| 5500                                     | 100 | 802.11n | OFDM    | 20              | 18.0                                | 17.94                         | 18.0                                | 17.86                         | 0.04             | 10 mm   | MIMO            | 1360M                | 13               | front | 98.6           | 0.450                 | 0.163    | 1.033                  | 1.014                       | 0.171             |        |
| 5500                                     | 100 | 802.11n | OFDM    | 20              | 18.0                                | 17.94                         | 18.0                                | 17.86                         | -0.08            | 10 mm   | MIMO            | 1360M                | 13               | top   | 98.6           | 0.644                 | 0.283    | 1.033                  | 1.014                       | 0.296             |        |
| 5500                                     | 100 | 802.11n | OFDM    | 20              | 18.0                                | 17.94                         | 18.0                                | 17.86                         | -0.03            | 10 mm   | MIMO            | 1360M                | 13               | right | 98.6           | 0.139                 | -        | 1.033                  | 1.014                       | -                 |        |
| 5785                                     | 157 | 802.11n | OFDM    | 20              | 18.0                                | 17.91                         | 18.0                                | 17.84                         | 0.09             | 10 mm   | MIMO            | 1360M                | 13               | back  | 98.6           | 0.741                 | -        | 1.038                  | 1.014                       | -                 |        |
| 5785                                     | 157 | 802.11n | OFDM    | 20              | 18.0                                | 17.91                         | 18.0                                | 17.84                         | 0.16             | 10 mm   | MIMO            | 1360M                | 13               | front | 98.6           | 0.535                 | 0.206    | 1.038                  | 1.014                       | 0.217             |        |
| 5785                                     | 157 | 802.11n | OFDM    | 20              | 18.0                                | 17.91                         | 18.0                                | 17.84                         | -0.17            | 10 mm   | MIMO            | 1360M                | 13               | top   | 98.6           | 0.853                 | 0.333    | 1.038                  | 1.014                       | 0.350             |        |
| 5785                                     | 157 | 802.11n | OFDM    | 20              | 18.0                                | 17.91                         | 18.0                                | 17.84                         | 0.06             | 10 mm   | MIMO            | 1360M                | 13               | right | 98.6           | 0.153                 | -        | 1.038                  | 1.014                       | -                 |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT    |     |         |         |                 |                                     |                               |                                     |                               |                  |         |                 | UMPC Body            |                  |       |                |                       |          |                        |                             |                   |        |
| Spatial Peak                             |     |         |         |                 |                                     |                               |                                     |                               |                  |         |                 | 1.6 W/kg (mW/g)      |                  |       |                |                       |          |                        |                             |                   |        |
| Uncontrolled Exposure/General Population |     |         |         |                 |                                     |                               |                                     |                               |                  |         |                 | averaged over 1 gram |                  |       |                |                       |          |                        |                             |                   |        |

To achieve the 21.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 18.0 dBm

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset | Page 118 of 176                                                                       |                                 |

**Table 11-62**  
**NII MIMO UMPC Body 1g SAR Data for Conditions with 2.4 GHz and 5 GHz WLAN SAR**

| MEASUREMENT RESULTS                      |     |          |         |                 |                                     |                               |                                     |                               |                  |                      |                 |                      |                  |       |                |                       |          |                        |                             |                   |        |
|------------------------------------------|-----|----------|---------|-----------------|-------------------------------------|-------------------------------|-------------------------------------|-------------------------------|------------------|----------------------|-----------------|----------------------|------------------|-------|----------------|-----------------------|----------|------------------------|-----------------------------|-------------------|--------|
| FREQUENCY                                |     | Mode     | Service | Bandwidth [MHz] | Maximum Allowed Power (Ant 1) [dBm] | Conducted Power (Ant 1) [dBm] | Maximum Allowed Power (Ant 2) [dBm] | Conducted Power (Ant 2) [dBm] | Power Drift [dB] | Spacing              | Antenna Config. | Device Serial Number | Data Rate (Mbps) | Side  | Duty Cycle (%) | Peak SAR of Area Scan | SAR (1g) | Scaling Factor (Power) | Scaling Factor (Duty Cycle) | Reported SAR (1g) | Plot # |
| MHz                                      | Ch. |          |         |                 |                                     |                               |                                     |                               |                  |                      |                 |                      |                  |       |                | W/kg                  | (W/kg)   |                        |                             | (W/kg)            |        |
| 5310                                     | 62  | 802.11n  | OFDM    | 40              | 14.0                                | 13.87                         | 14.0                                | 13.94                         | 0.12             | 10 mm                | MIMO            | 1360M                | 27               | back  | 97.3           | 0.435                 | 0.195    | 1.030                  | 1.028                       | 0.206             |        |
| 5310                                     | 62  | 802.11n  | OFDM    | 40              | 14.0                                | 13.87                         | 14.0                                | 13.94                         | -0.11            | 10 mm                | MIMO            | 1360M                | 27               | front | 97.3           | 0.098                 | 0.045    | 1.030                  | 1.028                       | 0.048             |        |
| 5310                                     | 62  | 802.11n  | OFDM    | 40              | 14.0                                | 13.87                         | 14.0                                | 13.94                         | -0.08            | 10 mm                | MIMO            | 1360M                | 27               | top   | 97.3           | 0.214                 | -        | 1.030                  | 1.028                       | -                 |        |
| 5310                                     | 62  | 802.11n  | OFDM    | 40              | 14.0                                | 13.87                         | 14.0                                | 13.94                         | 0.00             | 10 mm                | MIMO            | 1360M                | 27               | right | 97.3           | 0.051                 | -        | 1.030                  | 1.028                       | -                 |        |
| 5530                                     | 106 | 802.11ac | OFDM    | 80              | 14.0                                | 12.86                         | 14.0                                | 12.80                         | 0.09             | 10 mm                | MIMO            | 1360M                | 58.5             | back  | 90.7           | 0.484                 | 0.188    | 1.318                  | 1.102                       | 0.273             |        |
| 5530                                     | 106 | 802.11ac | OFDM    | 80              | 14.0                                | 12.86                         | 14.0                                | 12.80                         | 0.02             | 10 mm                | MIMO            | 1360M                | 58.5             | front | 90.7           | 0.165                 | 0.057    | 1.318                  | 1.102                       | 0.083             |        |
| 5530                                     | 106 | 802.11ac | OFDM    | 80              | 14.0                                | 12.86                         | 14.0                                | 12.80                         | 0.00             | 10 mm                | MIMO            | 1360M                | 58.5             | top   | 90.7           | 0.225                 | -        | 1.318                  | 1.102                       | -                 |        |
| 5530                                     | 106 | 802.11ac | OFDM    | 80              | 14.0                                | 12.86                         | 14.0                                | 12.80                         | -0.09            | 10 mm                | MIMO            | 1360M                | 58.5             | right | 90.7           | 0.040                 | -        | 1.318                  | 1.102                       | -                 |        |
| 5775                                     | 155 | 802.11ac | OFDM    | 80              | 14.0                                | 12.58                         | 14.0                                | 12.85                         | 0.03             | 10 mm                | MIMO            | 1360M                | 58.5             | back  | 90.7           | 0.165                 | -        | 1.387                  | 1.102                       | -                 |        |
| 5775                                     | 155 | 802.11ac | OFDM    | 80              | 14.0                                | 12.58                         | 14.0                                | 12.85                         | 0.07             | 10 mm                | MIMO            | 1360M                | 58.5             | front | 90.7           | 0.138                 | 0.044    | 1.387                  | 1.102                       | 0.067             |        |
| 5775                                     | 155 | 802.11ac | OFDM    | 80              | 14.0                                | 12.58                         | 14.0                                | 12.85                         | 0.00             | 10 mm                | MIMO            | 1360M                | 58.5             | top   | 90.7           | 0.213                 | 0.075    | 1.387                  | 1.102                       | 0.115             |        |
| 5775                                     | 155 | 802.11ac | OFDM    | 80              | 14.0                                | 12.58                         | 14.0                                | 12.85                         | 0.00             | 10 mm                | MIMO            | 1360M                | 58.5             | right | 90.7           | 0.032                 | -        | 1.387                  | 1.102                       | -                 |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT    |     |          |         |                 |                                     |                               |                                     |                               |                  |                      |                 |                      |                  |       |                |                       |          |                        |                             |                   |        |
| Spatial Peak                             |     |          |         |                 |                                     |                               |                                     |                               |                  | UMPC Body            |                 |                      |                  |       |                |                       |          |                        |                             |                   |        |
| Uncontrolled Exposure/General Population |     |          |         |                 |                                     |                               |                                     |                               |                  | 1.6 W/kg (mW/g)      |                 |                      |                  |       |                |                       |          |                        |                             |                   |        |
|                                          |     |          |         |                 |                                     |                               |                                     |                               |                  | averaged over 1 gram |                 |                      |                  |       |                |                       |          |                        |                             |                   |        |

NII MIMO was additionally evaluated at the maximum allowed output power during operations with Simultaneous 2.4 GHz and 5 GHz WLAN. 2.4 GHz WIFI was not transmitting during the above evaluations.

**Table 11-63**  
**DSS UMPC Body 1g SAR Data**

| 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    | 16.5                        | 16.18                 | -0.09            | 10 mm   | 1385M                                                | 1                | back  | 77.1           | 0.060    | 1.076                       | 1.297                       | 0.084             |        |
| 2402                                                                                              | 0   | Bluetooth | FHSS    | 16.5                        | 16.18                 | 0.01             | 10 mm   | 1385M                                                | 1                | front | 77.1           | 0.069    | 1.076                       | 1.297                       | 0.096             |        |
| 2402                                                                                              | 0   | Bluetooth | FHSS    | 16.5                        | 16.18                 | -0.02            | 10 mm   | 1385M                                                | 1                | top   | 77.1           | 0.100    | 1.076                       | 1.297                       | 0.140             | A81    |
| 2402                                                                                              | 0   | Bluetooth | FHSS    | 16.5                        | 16.18                 | 0.00             | 10 mm   | 1385M                                                | 1                | right | 77.1           | 0.055    | 1.076                       | 1.297                       | 0.077             |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |     |           |         |                             |                       |                  |         | UMPC Body<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |                  |       |                |          |                             |                             |                   |        |

|                                                |                                                                                                                                   |                                      |                                                                                       |                                        |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMF900F                             |  <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                                                                           | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 119 of 176                        |

## 11.6 Standalone UMPC Extremity SAR Data

**Table 11-64**  
**GPRS UMPC Extremity 10g SAR Data**

| MEASUREMENT RESULTS                                                                               |     |          |         |                             |                       |                  |                                                             |                      |                 |            |        |           |                |                    |        |
|---------------------------------------------------------------------------------------------------|-----|----------|---------|-----------------------------|-----------------------|------------------|-------------------------------------------------------------|----------------------|-----------------|------------|--------|-----------|----------------|--------------------|--------|
| FREQUENCY                                                                                         |     | Mode     | Service | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | Spacing                                                     | Device Serial Number | # of GPRS Slots | Duty Cycle | Side   | SAR (10g) | Scaling Factor | Reported SAR (10g) | Plot # |
| MHz                                                                                               | Ch. |          |         |                             |                       |                  |                                                             |                      |                 |            |        | (W/kg)    |                | (W/kg)             |        |
| 836.60                                                                                            | 190 | GSM 850  | GPRS    | 31.0                        | 29.88                 | -0.05            | 0 mm                                                        | 1385M                | 3               | 1:2.76     | back   | 1.170     | 1.294          | 1.514              |        |
| 836.60                                                                                            | 190 | GSM 850  | GPRS    | 31.0                        | 29.88                 | -0.13            | 0 mm                                                        | 1385M                | 3               | 1:2.76     | front  | 0.986     | 1.294          | 1.276              |        |
| 824.20                                                                                            | 128 | GSM 850  | GPRS    | 31.0                        | 29.65                 | 0.04             | 0 mm                                                        | 1385M                | 3               | 1:2.76     | bottom | 0.892     | 1.365          | 1.218              |        |
| 836.60                                                                                            | 190 | GSM 850  | GPRS    | 31.0                        | 29.88                 | 0.12             | 0 mm                                                        | 1385M                | 3               | 1:2.76     | bottom | 1.330     | 1.294          | 1.721              | A82    |
| 848.80                                                                                            | 251 | GSM 850  | GPRS    | 31.0                        | 29.93                 | -0.10            | 0 mm                                                        | 1385M                | 3               | 1:2.76     | bottom | 0.946     | 1.279          | 1.210              |        |
| 836.60                                                                                            | 190 | GSM 850  | GPRS    | 31.0                        | 29.88                 | -0.09            | 0 mm                                                        | 1385M                | 3               | 1:2.76     | right  | 0.870     | 1.294          | 1.126              |        |
| 1880.00                                                                                           | 661 | GSM 1900 | GPRS    | 30.5                        | 28.80                 | -0.08            | 8 mm                                                        | 1362M                | 2               | 1:4.15     | back   | 0.480     | 1.479          | 0.710              |        |
| 1880.00                                                                                           | 661 | GSM 1900 | GPRS    | 30.5                        | 28.80                 | 0.01             | 8 mm                                                        | 1362M                | 2               | 1:4.15     | front  | 0.402     | 1.479          | 0.595              |        |
| 1880.00                                                                                           | 661 | GSM 1900 | GPRS    | 30.5                        | 28.80                 | -0.10            | 13 mm                                                       | 1362M                | 2               | 1:4.15     | bottom | 0.402     | 1.479          | 0.595              |        |
| 1880.00                                                                                           | 661 | GSM 1900 | GPRS    | 30.5                        | 28.80                 | 0.02             | 0 mm                                                        | 1362M                | 2               | 1:4.15     | right  | 0.468     | 1.479          | 0.692              |        |
| 1880.00                                                                                           | 661 | GSM 1900 | GPRS    | 27.5                        | 26.33                 | 0.06             | 0 mm                                                        | 1362M                | 2               | 1:4.15     | back   | 1.130     | 1.309          | 1.479              |        |
| 1880.00                                                                                           | 661 | GSM 1900 | GPRS    | 27.5                        | 26.33                 | -0.03            | 0 mm                                                        | 1362M                | 2               | 1:4.15     | front  | 0.997     | 1.309          | 1.305              |        |
| 1850.20                                                                                           | 512 | GSM 1900 | GPRS    | 27.5                        | 26.23                 | -0.17            | 0 mm                                                        | 1362M                | 2               | 1:4.15     | bottom | 1.940     | 1.340          | 2.600              |        |
| 1880.00                                                                                           | 661 | GSM 1900 | GPRS    | 27.5                        | 26.33                 | -0.06            | 0 mm                                                        | 1362M                | 2               | 1:4.15     | bottom | 2.350     | 1.309          | 3.076              | A83    |
| 1909.80                                                                                           | 810 | GSM 1900 | GPRS    | 27.5                        | 26.17                 | -0.05            | 0 mm                                                        | 1362M                | 2               | 1:4.15     | bottom | 2.290     | 1.358          | 3.110              |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |     |          |         |                             |                       |                  | UMPC Extremity<br>4.0 W/kg (mW/g)<br>averaged over 10 grams |                      |                 |            |        |           |                |                    |        |

|                                         |                                                                                     |                               |                       |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|-----------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  |                               | SAR EVALUATION REPORT |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                       |                                                                                       | Page 120 of 176                 |

**Table 11-65**  
**UMTS UMPC Extremity 10g SAR Data**

| MEASUREMENT RESULTS                                                                               |      |           |         |                             |                       |           |                  |                                                             |                      |            |        |           |                |                    |        |
|---------------------------------------------------------------------------------------------------|------|-----------|---------|-----------------------------|-----------------------|-----------|------------------|-------------------------------------------------------------|----------------------|------------|--------|-----------|----------------|--------------------|--------|
| FREQUENCY                                                                                         |      | Mode      | Service | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Ant State | Power Drift [dB] | Spacing                                                     | Device Serial Number | Duty Cycle | Side   | SAR (10g) | Scaling Factor | Reported SAR (10g) | Plot # |
| MHz                                                                                               | Ch.  |           |         |                             |                       |           |                  |                                                             |                      |            |        | (W/kg)    |                | (W/kg)             |        |
| 836.60                                                                                            | 4183 | UMTS 850  | RMC     | 25.5                        | 24.19                 | 0         | -0.06            | 0 mm                                                        | 1366M                | 1:1        | back   | 0.744     | 1.352          | 1.006              |        |
| 836.60                                                                                            | 4183 | UMTS 850  | RMC     | 25.5                        | 24.19                 | 0         | -0.03            | 0 mm                                                        | 1366M                | 1:1        | front  | 0.746     | 1.352          | 1.009              |        |
| 836.60                                                                                            | 4183 | UMTS 850  | RMC     | 25.5                        | 24.19                 | 0         | -0.04            | 0 mm                                                        | 1366M                | 1:1        | bottom | 0.457     | 1.352          | 0.618              |        |
| 826.40                                                                                            | 4132 | UMTS 850  | RMC     | 25.5                        | 24.17                 | 0         | -0.02            | 0 mm                                                        | 1366M                | 1:1        | right  | 1.110     | 1.358          | 1.507              |        |
| 836.60                                                                                            | 4183 | UMTS 850  | RMC     | 25.5                        | 24.19                 | 0         | 0.06             | 0 mm                                                        | 1366M                | 1:1        | right  | 1.110     | 1.352          | 1.501              | A84    |
| 846.60                                                                                            | 4233 | UMTS 850  | RMC     | 25.5                        | 24.21                 | 0         | -0.19            | 0 mm                                                        | 1366M                | 1:1        | right  | 1.050     | 1.346          | 1.413              |        |
| 1732.40                                                                                           | 1412 | UMTS 1750 | RMC     | 25.5                        | 24.17                 | N/A       | -0.01            | 8 mm                                                        | 1362M                | 1:1        | back   | 0.399     | 1.358          | 0.542              |        |
| 1732.40                                                                                           | 1412 | UMTS 1750 | RMC     | 25.5                        | 24.17                 | N/A       | 0.02             | 8 mm                                                        | 1362M                | 1:1        | front  | 0.438     | 1.358          | 0.595              |        |
| 1732.40                                                                                           | 1412 | UMTS 1750 | RMC     | 25.5                        | 24.17                 | N/A       | -0.08            | 13 mm                                                       | 1362M                | 1:1        | bottom | 0.294     | 1.358          | 0.399              |        |
| 1732.40                                                                                           | 1412 | UMTS 1750 | RMC     | 25.5                        | 24.17                 | N/A       | -0.10            | 0 mm                                                        | 1362M                | 1:1        | right  | 0.509     | 1.358          | 0.691              |        |
| 1732.40                                                                                           | 1412 | UMTS 1750 | RMC     | 20.5                        | 19.80                 | N/A       | -0.08            | 0 mm                                                        | 1407M                | 1:1        | back   | 1.060     | 1.175          | 1.246              |        |
| 1732.40                                                                                           | 1412 | UMTS 1750 | RMC     | 20.5                        | 19.80                 | N/A       | 0.04             | 0 mm                                                        | 1407M                | 1:1        | front  | 1.170     | 1.175          | 1.375              |        |
| 1712.40                                                                                           | 1312 | UMTS 1750 | RMC     | 20.5                        | 19.63                 | N/A       | -0.05            | 0 mm                                                        | 1407M                | 1:1        | bottom | 2.200     | 1.222          | 2.688              |        |
| 1732.40                                                                                           | 1412 | UMTS 1750 | RMC     | 20.5                        | 19.80                 | N/A       | -0.05            | 0 mm                                                        | 1407M                | 1:1        | bottom | 2.380     | 1.175          | 2.797              | A85    |
| 1752.60                                                                                           | 1513 | UMTS 1750 | RMC     | 20.5                        | 19.45                 | N/A       | -0.06            | 0 mm                                                        | 1407M                | 1:1        | bottom | 2.320     | 1.274          | 2.956              |        |
| 1880.00                                                                                           | 9400 | UMTS 1900 | RMC     | 25.5                        | 24.32                 | N/A       | 0.08             | 8 mm                                                        | 1362M                | 1:1        | back   | 0.472     | 1.312          | 0.619              |        |
| 1880.00                                                                                           | 9400 | UMTS 1900 | RMC     | 25.5                        | 24.32                 | N/A       | -0.04            | 8 mm                                                        | 1362M                | 1:1        | front  | 0.477     | 1.312          | 0.626              |        |
| 1880.00                                                                                           | 9400 | UMTS 1900 | RMC     | 25.5                        | 24.32                 | N/A       | -0.03            | 13 mm                                                       | 1362M                | 1:1        | bottom | 0.487     | 1.312          | 0.639              |        |
| 1880.00                                                                                           | 9400 | UMTS 1900 | RMC     | 25.5                        | 24.32                 | N/A       | -0.08            | 0 mm                                                        | 1362M                | 1:1        | right  | 0.579     | 1.312          | 0.760              |        |
| 1880.00                                                                                           | 9400 | UMTS 1900 | RMC     | 21.0                        | 19.68                 | N/A       | -0.03            | 0 mm                                                        | 1362M                | 1:1        | back   | 1.190     | 1.355          | 1.612              |        |
| 1880.00                                                                                           | 9400 | UMTS 1900 | RMC     | 21.0                        | 19.68                 | N/A       | -0.01            | 0 mm                                                        | 1362M                | 1:1        | front  | 1.210     | 1.355          | 1.640              |        |
| 1852.40                                                                                           | 9262 | UMTS 1900 | RMC     | 21.0                        | 19.63                 | N/A       | -0.02            | 0 mm                                                        | 1362M                | 1:1        | bottom | 2.270     | 1.371          | 3.112              |        |
| 1880.00                                                                                           | 9400 | UMTS 1900 | RMC     | 21.0                        | 19.68                 | N/A       | 0.00             | 0 mm                                                        | 1362M                | 1:1        | bottom | 2.420     | 1.355          | 3.279              | A86    |
| 1907.60                                                                                           | 9538 | UMTS 1900 | RMC     | 21.0                        | 19.55                 | N/A       | -0.05            | 0 mm                                                        | 1362M                | 1:1        | bottom | 2.350     | 1.396          | 3.281              |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |      |           |         |                             |                       |           |                  | UMPC Extremity<br>4.0 W/kg (mW/g)<br>averaged over 10 grams |                      |            |        |           |                |                    |        |

**Table 11-66**  
**LTE Band 71 UMPC Extremity 10g SAR Data**

| MEASUREMENT RESULTS                                                                               |        |      |                 |                             |                       |           |                  |          |                                                             |            |         |           |         |      |            |           |                |                    |        |     |
|---------------------------------------------------------------------------------------------------|--------|------|-----------------|-----------------------------|-----------------------|-----------|------------------|----------|-------------------------------------------------------------|------------|---------|-----------|---------|------|------------|-----------|----------------|--------------------|--------|-----|
| FREQUENCY                                                                                         |        | Mode | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Ant State | Power Drift [dB] | MPR [dB] | Device 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)             |        |     |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 25.5                  | 24.62     | 34               | -0.09    | 0                                                           | 1358M      | QPSK    | 1         | 0       | 0 mm | back       | 1:1       | 0.688          | 1.225              | 0.843  |     |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 24.5                  | 23.75     | 34               | -0.15    | 1                                                           | 1358M      | QPSK    | 50        | 0       | 0 mm | back       | 1:1       | 0.667          | 1.189              | 0.793  |     |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 25.5                  | 24.62     | 34               | 0.00     | 0                                                           | 1358M      | QPSK    | 1         | 0       | 0 mm | front      | 1:1       | 1.070          | 1.225              | 1.311  | A87 |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 24.5                  | 23.75     | 34               | 0.01     | 1                                                           | 1358M      | QPSK    | 50        | 0       | 0 mm | front      | 1:1       | 0.895          | 1.189              | 1.064  |     |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 25.5                  | 24.62     | 34               | -0.06    | 0                                                           | 1358M      | QPSK    | 1         | 0       | 0 mm | bottom     | 1:1       | 0.829          | 1.225              | 1.016  |     |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 24.5                  | 23.75     | 34               | -0.09    | 1                                                           | 1358M      | QPSK    | 50        | 0       | 0 mm | bottom     | 1:1       | 0.710          | 1.189              | 0.844  |     |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 25.5                  | 24.62     | 34               | -0.10    | 0                                                           | 1358M      | QPSK    | 1         | 0       | 0 mm | right      | 1:1       | 1.040          | 1.225              | 1.274  |     |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 24.5                  | 23.75     | 34               | -0.05    | 1                                                           | 1358M      | QPSK    | 50        | 0       | 0 mm | right      | 1:1       | 0.832          | 1.189              | 0.989  |     |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |        |      |                 |                             |                       |           |                  |          | UMPC Extremity<br>4.0 W/kg (mW/g)<br>averaged over 10 grams |            |         |           |         |      |            |           |                |                    |        |     |

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 121 of 176                 |

**Table 11-67**  
**LTE Band 12 UMPC Extremity 10g SAR Data**

| MEASUREMENT RESULTS                                                                               |       |     |             |                 |                             |                       |           |                  |                                                             |                      |            |         |           |         |        |            |           |                |                    |        |
|---------------------------------------------------------------------------------------------------|-------|-----|-------------|-----------------|-----------------------------|-----------------------|-----------|------------------|-------------------------------------------------------------|----------------------|------------|---------|-----------|---------|--------|------------|-----------|----------------|--------------------|--------|
| FREQUENCY                                                                                         |       |     | Mode        | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Ant State | Power Drift [dB] | MPR [dB]                                                    | Device 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)             |        |
| 707.50                                                                                            | 23095 | Mid | LTE Band 12 | 10              | 25.5                        | 24.26                 | 32        | -0.16            | 0                                                           | 1358M                | QPSK       | 1       | 25        | 0 mm    | back   | 1:1        | 0.924     | 1.330          | 1.229              |        |
| 707.50                                                                                            | 23095 | Mid | LTE Band 12 | 10              | 24.5                        | 23.48                 | 32        | -0.13            | 1                                                           | 1358M                | QPSK       | 25      | 0         | 0 mm    | back   | 1:1        | 0.781     | 1.265          | 0.988              |        |
| 707.50                                                                                            | 23095 | Mid | LTE Band 12 | 10              | 25.5                        | 24.26                 | 32        | -0.06            | 0                                                           | 1358M                | QPSK       | 1       | 25        | 0 mm    | front  | 1:1        | 1.080     | 1.330          | 1.436              | A88    |
| 707.50                                                                                            | 23095 | Mid | LTE Band 12 | 10              | 24.5                        | 23.48                 | 32        | 0.03             | 1                                                           | 1358M                | QPSK       | 25      | 0         | 0 mm    | front  | 1:1        | 0.946     | 1.265          | 1.197              |        |
| 707.50                                                                                            | 23095 | Mid | LTE Band 12 | 10              | 25.5                        | 24.26                 | 32        | -0.07            | 0                                                           | 1358M                | QPSK       | 1       | 25        | 0 mm    | bottom | 1:1        | 0.916     | 1.330          | 1.218              |        |
| 707.50                                                                                            | 23095 | Mid | LTE Band 12 | 10              | 24.5                        | 23.48                 | 32        | -0.09            | 1                                                           | 1358M                | QPSK       | 25      | 0         | 0 mm    | bottom | 1:1        | 0.758     | 1.265          | 0.959              |        |
| 707.50                                                                                            | 23095 | Mid | LTE Band 12 | 10              | 25.5                        | 24.26                 | 32        | -0.08            | 0                                                           | 1358M                | QPSK       | 1       | 25        | 0 mm    | right  | 1:1        | 0.867     | 1.330          | 1.153              |        |
| 707.50                                                                                            | 23095 | Mid | LTE Band 12 | 10              | 24.5                        | 23.48                 | 32        | -0.11            | 1                                                           | 1358M                | QPSK       | 25      | 0         | 0 mm    | right  | 1:1        | 0.723     | 1.265          | 0.915              |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |       |     |             |                 |                             |                       |           |                  | UMPC Extremity<br>4.0 W/kg (mW/g)<br>averaged over 10 grams |                      |            |         |           |         |        |            |           |                |                    |        |

**Table 11-68**  
**LTE Band 13 UMPC Extremity 10g SAR Data**

| MEASUREMENT RESULTS                                                                               |       |     |             |                 |                             |                       |           |                  |                                                             |                      |            |         |           |         |        |            |           |                |                    |        |
|---------------------------------------------------------------------------------------------------|-------|-----|-------------|-----------------|-----------------------------|-----------------------|-----------|------------------|-------------------------------------------------------------|----------------------|------------|---------|-----------|---------|--------|------------|-----------|----------------|--------------------|--------|
| FREQUENCY                                                                                         |       |     | Mode        | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Ant State | Power Drift [dB] | MPR [dB]                                                    | Device 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)             |        |
| 782.00                                                                                            | 23230 | Mid | LTE Band 13 | 10              | 25.5                        | 24.02                 | 78        | -0.13            | 0                                                           | 1389M                | QPSK       | 1       | 49        | 0 mm    | back   | 1:1        | 1.130     | 1.406          | 1.589              |        |
| 782.00                                                                                            | 23230 | Mid | LTE Band 13 | 10              | 24.5                        | 23.11                 | 78        | -0.12            | 1                                                           | 1389M                | QPSK       | 25      | 0         | 0 mm    | back   | 1:1        | 0.933     | 1.377          | 1.285              |        |
| 782.00                                                                                            | 23230 | Mid | LTE Band 13 | 10              | 25.5                        | 24.02                 | 78        | 0.00             | 0                                                           | 1389M                | QPSK       | 1       | 49        | 0 mm    | front  | 1:1        | 1.220     | 1.406          | 1.715              | A89    |
| 782.00                                                                                            | 23230 | Mid | LTE Band 13 | 10              | 24.5                        | 23.11                 | 78        | -0.07            | 1                                                           | 1389M                | QPSK       | 25      | 0         | 0 mm    | front  | 1:1        | 1.040     | 1.377          | 1.432              |        |
| 782.00                                                                                            | 23230 | Mid | LTE Band 13 | 10              | 25.5                        | 24.02                 | 78        | -0.18            | 0                                                           | 1389M                | QPSK       | 1       | 49        | 0 mm    | bottom | 1:1        | 0.699     | 1.406          | 0.983              |        |
| 782.00                                                                                            | 23230 | Mid | LTE Band 13 | 10              | 24.5                        | 23.11                 | 78        | -0.12            | 1                                                           | 1389M                | QPSK       | 25      | 0         | 0 mm    | bottom | 1:1        | 0.572     | 1.377          | 0.788              |        |
| 782.00                                                                                            | 23230 | Mid | LTE Band 13 | 10              | 25.5                        | 24.02                 | 78        | -0.17            | 0                                                           | 1389M                | QPSK       | 1       | 49        | 0 mm    | right  | 1:1        | 0.872     | 1.406          | 1.226              |        |
| 782.00                                                                                            | 23230 | Mid | LTE Band 13 | 10              | 24.5                        | 23.11                 | 78        | -0.07            | 1                                                           | 1389M                | QPSK       | 25      | 0         | 0 mm    | right  | 1:1        | 0.708     | 1.377          | 0.975              |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |       |     |             |                 |                             |                       |           |                  | UMPC Extremity<br>4.0 W/kg (mW/g)<br>averaged over 10 grams |                      |            |         |           |         |        |            |           |                |                    |        |

**Table 11-69**  
**LTE Band 14 UMPC Extremity 10g SAR Data**

| MEASUREMENT RESULTS                                                                               |       |     |             |                 |                             |                       |           |                  |                                                             |                      |            |         |           |         |        |            |           |                |                    |        |
|---------------------------------------------------------------------------------------------------|-------|-----|-------------|-----------------|-----------------------------|-----------------------|-----------|------------------|-------------------------------------------------------------|----------------------|------------|---------|-----------|---------|--------|------------|-----------|----------------|--------------------|--------|
| FREQUENCY                                                                                         |       |     | Mode        | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Ant State | Power Drift [dB] | MPR [dB]                                                    | Device 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)             |        |
| 793.00                                                                                            | 23330 | Mid | LTE Band 14 | 10              | 25.5                        | 24.23                 | 32        | -0.02            | 0                                                           | 1389M                | QPSK       | 1       | 0         | 0 mm    | back   | 1:1        | 1.110     | 1.340          | 1.487              |        |
| 793.00                                                                                            | 23330 | Mid | LTE Band 14 | 10              | 24.5                        | 23.30                 | 32        | -0.04            | 1                                                           | 1389M                | QPSK       | 25      | 12        | 0 mm    | back   | 1:1        | 0.893     | 1.318          | 1.177              |        |
| 793.00                                                                                            | 23330 | Mid | LTE Band 14 | 10              | 25.5                        | 24.23                 | 32        | 0.01             | 0                                                           | 1389M                | QPSK       | 1       | 0         | 0 mm    | front  | 1:1        | 1.210     | 1.340          | 1.621              | A90    |
| 793.00                                                                                            | 23330 | Mid | LTE Band 14 | 10              | 24.5                        | 23.30                 | 32        | 0.01             | 1                                                           | 1389M                | QPSK       | 25      | 12        | 0 mm    | front  | 1:1        | 0.975     | 1.318          | 1.285              |        |
| 793.00                                                                                            | 23330 | Mid | LTE Band 14 | 10              | 25.5                        | 24.23                 | 32        | 0.07             | 0                                                           | 1389M                | QPSK       | 1       | 0         | 0 mm    | bottom | 1:1        | 0.700     | 1.340          | 0.938              |        |
| 793.00                                                                                            | 23330 | Mid | LTE Band 14 | 10              | 24.5                        | 23.30                 | 32        | 0.11             | 1                                                           | 1389M                | QPSK       | 25      | 12        | 0 mm    | bottom | 1:1        | 0.567     | 1.318          | 0.747              |        |
| 793.00                                                                                            | 23330 | Mid | LTE Band 14 | 10              | 25.5                        | 24.23                 | 32        | -0.07            | 0                                                           | 1389M                | QPSK       | 1       | 0         | 0 mm    | right  | 1:1        | 0.904     | 1.340          | 1.211              |        |
| 793.00                                                                                            | 23330 | Mid | LTE Band 14 | 10              | 24.5                        | 23.30                 | 32        | -0.13            | 1                                                           | 1389M                | QPSK       | 25      | 12        | 0 mm    | right  | 1:1        | 0.731     | 1.318          | 0.963              |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |       |     |             |                 |                             |                       |           |                  | UMPC Extremity<br>4.0 W/kg (mW/g)<br>averaged over 10 grams |                      |            |         |           |         |        |            |           |                |                    |        |

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 122 of 176                 |

**Table 11-70**  
**LTE Band 26 (Cell) UMPC Extremity 10g SAR Data**

| MEASUREMENT RESULTS                                                                               |       |     |                    |                 |                             |                       |           |                  |                                                             |                      |            |         |           |         |        |            |           |                |                    |        |
|---------------------------------------------------------------------------------------------------|-------|-----|--------------------|-----------------|-----------------------------|-----------------------|-----------|------------------|-------------------------------------------------------------|----------------------|------------|---------|-----------|---------|--------|------------|-----------|----------------|--------------------|--------|
| FREQUENCY                                                                                         |       |     | Mode               | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Ant State | Power Drift [dB] | MPR [dB]                                                    | Device 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)             |        |
| 831.50                                                                                            | 26865 | Mid | LTE Band 26 (Cell) | 15              | 25.5                        | 24.22                 | 0         | -0.03            | 0                                                           | 1366M                | QPSK       | 1       | 0         | 0 mm    | back   | 1:1        | 0.742     | 1.343          | 0.997              |        |
| 831.50                                                                                            | 26865 | Mid | LTE Band 26 (Cell) | 15              | 24.5                        | 23.27                 | 0         | -0.04            | 1                                                           | 1366M                | QPSK       | 36      | 37        | 0 mm    | back   | 1:1        | 0.677     | 1.327          | 0.898              |        |
| 831.50                                                                                            | 26865 | Mid | LTE Band 26 (Cell) | 15              | 25.5                        | 24.22                 | 0         | -0.01            | 0                                                           | 1366M                | QPSK       | 1       | 0         | 0 mm    | front  | 1:1        | 0.675     | 1.343          | 0.907              |        |
| 831.50                                                                                            | 26865 | Mid | LTE Band 26 (Cell) | 15              | 24.5                        | 23.27                 | 0         | 0.01             | 1                                                           | 1366M                | QPSK       | 36      | 37        | 0 mm    | front  | 1:1        | 0.635     | 1.327          | 0.843              |        |
| 831.50                                                                                            | 26865 | Mid | LTE Band 26 (Cell) | 15              | 25.5                        | 24.22                 | 0         | -0.07            | 0                                                           | 1366M                | QPSK       | 1       | 0         | 0 mm    | bottom | 1:1        | 0.473     | 1.343          | 0.635              |        |
| 831.50                                                                                            | 26865 | Mid | LTE Band 26 (Cell) | 15              | 24.5                        | 23.27                 | 0         | -0.08            | 1                                                           | 1366M                | QPSK       | 36      | 37        | 0 mm    | bottom | 1:1        | 0.417     | 1.327          | 0.553              |        |
| 831.50                                                                                            | 26865 | Mid | LTE Band 26 (Cell) | 15              | 25.5                        | 24.22                 | 0         | -0.04            | 0                                                           | 1366M                | QPSK       | 1       | 0         | 0 mm    | right  | 1:1        | 1.110     | 1.343          | 1.491              | A91    |
| 831.50                                                                                            | 26865 | Mid | LTE Band 26 (Cell) | 15              | 24.5                        | 23.27                 | 0         | -0.07            | 1                                                           | 1366M                | QPSK       | 36      | 37        | 0 mm    | right  | 1:1        | 0.928     | 1.327          | 1.231              |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |       |     |                    |                 |                             |                       |           |                  | UMPC Extremity<br>4.0 W/kg (mW/g)<br>averaged over 10 grams |                      |            |         |           |         |        |            |           |                |                    |        |

|                                                |                                                                                     |                                      |                                                                                       |                                        |
|------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMF900F                             |  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                             | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 123 of 176                        |

**Table 11-71**  
**LTE Band 66 (AWS) UMPC Extremity 10g SAR Data**

| MEASUREMENT RESULTS                                                                               |                   |           |        |      |                   |                             |                       |                  |          |                                                             |            |         |           |         |       |            |           |                |                    |        |     |
|---------------------------------------------------------------------------------------------------|-------------------|-----------|--------|------|-------------------|-----------------------------|-----------------------|------------------|----------|-------------------------------------------------------------|------------|---------|-----------|---------|-------|------------|-----------|----------------|--------------------|--------|-----|
| 1 CC Uplink/<br>2 CC Uplink                                                                       | Component Carrier | 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 (10g) | Scaling Factor | Reported SAR (10g) | Plot # |     |
|                                                                                                   |                   | MHz       | Ch.    |      |                   |                             |                       |                  |          |                                                             |            |         |           |         |       |            | (W/kg)    |                | (W/kg)             |        |     |
| 1 CC Uplink                                                                                       | N/A               | 1720.00   | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 25.0                  | 24.24            | -0.02    | 0                                                           | 1362M      | QPSK    | 1         | 0       | 8 mm  | back       | 1:1       | 0.505          | 1.191              | 0.601  |     |
| 1 CC Uplink                                                                                       | N/A               | 1720.00   | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 24.0                  | 23.33            | 0.01     | 1                                                           | 1362M      | QPSK    | 50        | 0       | 8 mm  | back       | 1:1       | 0.421          | 1.167              | 0.491  |     |
| 1 CC Uplink                                                                                       | N/A               | 1720.00   | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 25.0                  | 24.24            | 0.03     | 0                                                           | 1362M      | QPSK    | 1         | 0       | 8 mm  | front      | 1:1       | 0.419          | 1.191              | 0.499  |     |
| 1 CC Uplink                                                                                       | N/A               | 1720.00   | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 24.0                  | 23.33            | 0.03     | 1                                                           | 1362M      | QPSK    | 50        | 0       | 8 mm  | front      | 1:1       | 0.352          | 1.167              | 0.411  |     |
| 1 CC Uplink                                                                                       | N/A               | 1720.00   | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 25.0                  | 24.24            | -0.03    | 0                                                           | 1362M      | QPSK    | 1         | 0       | 13 mm | bottom     | 1:1       | 0.340          | 1.191              | 0.405  |     |
| 1 CC Uplink                                                                                       | N/A               | 1720.00   | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 24.0                  | 23.33            | 0.03     | 1                                                           | 1362M      | QPSK    | 50        | 0       | 13 mm | bottom     | 1:1       | 0.279          | 1.167              | 0.326  |     |
| 1 CC Uplink                                                                                       | N/A               | 1720.00   | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 25.0                  | 24.24            | -0.02    | 0                                                           | 1362M      | QPSK    | 1         | 0       | 0 mm  | right      | 1:1       | 0.582          | 1.191              | 0.693  |     |
| 1 CC Uplink                                                                                       | N/A               | 1720.00   | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 24.0                  | 23.33            | -0.03    | 1                                                           | 1362M      | QPSK    | 50        | 0       | 0 mm  | right      | 1:1       | 0.486          | 1.167              | 0.567  |     |
| 1 CC Uplink                                                                                       | N/A               | 1720.00   | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 19.8                  | 18.84            | -0.08    | 0                                                           | 1407M      | QPSK    | 1         | 0       | 0 mm  | back       | 1:1       | 1.050          | 1.247              | 1.309  |     |
| 1 CC Uplink                                                                                       | N/A               | 1720.00   | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 19.8                  | 18.97            | -0.01    | 0                                                           | 1407M      | QPSK    | 50        | 0       | 0 mm  | back       | 1:1       | 1.040          | 1.211              | 1.259  |     |
| 1 CC Uplink                                                                                       | N/A               | 1720.00   | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 19.8                  | 18.84            | 0.11     | 0                                                           | 1407M      | QPSK    | 1         | 0       | 0 mm  | front      | 1:1       | 1.070          | 1.247              | 1.334  |     |
| 1 CC Uplink                                                                                       | N/A               | 1720.00   | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 19.8                  | 18.97            | 0.12     | 0                                                           | 1407M      | QPSK    | 50        | 0       | 0 mm  | front      | 1:1       | 1.080          | 1.211              | 1.308  |     |
| 1 CC Uplink                                                                                       | N/A               | 1720.00   | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 19.8                  | 18.84            | 0.02     | 0                                                           | 1407M      | QPSK    | 1         | 0       | 0 mm  | bottom     | 1:1       | 2.150          | 1.247              | 2.681  |     |
| 1 CC Uplink                                                                                       | N/A               | 1720.00   | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 19.8                  | 18.62            | -0.17    | 0                                                           | 1407M      | QPSK    | 1         | 99      | 0 mm  | bottom     | 1:1       | 1.930          | 1.312              | 2.532  |     |
| 1 CC Uplink                                                                                       | N/A               | 1745.00   | 132322 | Mid  | LTE Band 66 (AWS) | 20                          | 19.8                  | 18.58            | -0.01    | 0                                                           | 1407M      | QPSK    | 1         | 99      | 0 mm  | bottom     | 1:1       | 2.250          | 1.324              | 2.979  |     |
| 1 CC Uplink                                                                                       | N/A               | 1770.00   | 132572 | High | LTE Band 66 (AWS) | 20                          | 19.8                  | 18.63            | 0.02     | 0                                                           | 1407M      | QPSK    | 1         | 0       | 0 mm  | bottom     | 1:1       | 2.440          | 1.309              | 3.194  |     |
| 1 CC Uplink                                                                                       | N/A               | 1775.00   | 132622 | High | LTE Band 66 (AWS) | 10                          | 19.8                  | 18.45            | -0.18    | 0                                                           | 1407M      | QPSK    | 1         | 0       | 0 mm  | bottom     | 1:1       | 2.080          | 1.365              | 2.839  |     |
| 1 CC Uplink                                                                                       | N/A               | 1720.00   | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 19.8                  | 18.97            | 0.02     | 0                                                           | 1407M      | QPSK    | 50        | 0       | 0 mm  | bottom     | 1:1       | 2.220          | 1.211              | 2.688  |     |
| 1 CC Uplink                                                                                       | N/A               | 1715.00   | 132022 | Low  | LTE Band 66 (AWS) | 10                          | 19.8                  | 18.60            | -0.19    | 0                                                           | 1407M      | QPSK    | 25        | 25      | 0 mm  | bottom     | 1:1       | 1.870          | 1.318              | 2.465  |     |
| 1 CC Uplink                                                                                       | N/A               | 1720.00   | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 19.8                  | 18.75            | -0.17    | 0                                                           | 1407M      | QPSK    | 50        | 50      | 0 mm  | bottom     | 1:1       | 1.980          | 1.274              | 2.523  |     |
| 1 CC Uplink                                                                                       | N/A               | 1745.00   | 132322 | Mid  | LTE Band 66 (AWS) | 20                          | 19.8                  | 18.73            | -0.20    | 0                                                           | 1407M      | QPSK    | 50        | 0       | 0 mm  | bottom     | 1:1       | 2.160          | 1.279              | 2.763  |     |
| 1 CC Uplink                                                                                       | N/A               | 1745.00   | 132322 | Mid  | LTE Band 66 (AWS) | 20                          | 19.8                  | 18.75            | 0.00     | 0                                                           | 1407M      | QPSK    | 50        | 25      | 0 mm  | bottom     | 1:1       | 2.430          | 1.274              | 3.096  |     |
| 1 CC Uplink                                                                                       | N/A               | 1745.00   | 132322 | Mid  | LTE Band 66 (AWS) | 10                          | 19.8                  | 18.72            | -0.14    | 0                                                           | 1407M      | QPSK    | 25        | 0       | 0 mm  | bottom     | 1:1       | 2.080          | 1.282              | 2.667  |     |
| 1 CC Uplink                                                                                       | N/A               | 1770.00   | 132572 | High | LTE Band 66 (AWS) | 20                          | 19.8                  | 18.78            | 0.05     | 0                                                           | 1407M      | QPSK    | 50        | 0       | 0 mm  | bottom     | 1:1       | 2.550          | 1.265              | 3.226  |     |
| 1 CC Uplink                                                                                       | N/A               | 1775.00   | 132622 | High | LTE Band 66 (AWS) | 10                          | 19.8                  | 18.76            | -0.02    | 0                                                           | 1407M      | QPSK    | 25        | 0       | 0 mm  | bottom     | 1:1       | 2.440          | 1.271              | 3.101  |     |
| 1 CC Uplink                                                                                       | N/A               | 1745.00   | 132322 | Mid  | LTE Band 66 (AWS) | 20                          | 19.8                  | 18.83            | 0.01     | 0                                                           | 1407M      | QPSK    | 100       | 0       | 0 mm  | bottom     | 1:1       | 2.310          | 1.250              | 2.888  |     |
| CA_66C 2 CC Uplink                                                                                | PCC               | 1720.00   | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 19.8                  | 19.17            | -0.16    | 0                                                           | 1407M      | QPSK    | 1         | 99      | 0 mm  | bottom     | 1:1       | 2.210          | 1.156              | 2.555  |     |
|                                                                                                   | SCC               | 1739.80   | 132270 | Low  | LTE Band 66 (AWS) | 20                          |                       |                  |          |                                                             |            |         | 1         | 0       |       |            |           |                |                    |        |     |
| CA_66C 2 CC Uplink                                                                                | PCC               | 1745.00   | 132322 | Mid  | LTE Band 66 (AWS) | 20                          | 19.8                  | 18.90            | -0.18    | 0                                                           | 1407M      | QPSK    | 1         | 99      | 0 mm  | bottom     | 1:1       | 2.370          | 1.230              | 2.915  |     |
|                                                                                                   | SCC               | 1764.80   | 132520 | Mid  | LTE Band 66 (AWS) | 20                          |                       |                  |          |                                                             |            |         | 1         | 0       |       |            |           |                |                    |        |     |
| CA_66C 2 CC Uplink                                                                                | PCC               | 1770.00   | 132572 | High | LTE Band 66 (AWS) | 20                          | 19.8                  | 19.05            | -0.20    | 0                                                           | 1407M      | QPSK    | 1         | 0       | 0 mm  | bottom     | 1:1       | 2.560          | 1.189              | 3.044  |     |
|                                                                                                   | SCC               | 1750.20   | 132374 | High | LTE Band 66 (AWS) | 20                          |                       |                  |          |                                                             |            |         | 1         | 99      |       |            |           |                |                    |        |     |
| CA_66B 2 CC Uplink                                                                                | PCC               | 1775.00   | 132622 | High | LTE Band 66 (AWS) | 10                          | 19.8                  | 19.00            | -0.15    | 0                                                           | 1407M      | QPSK    | 1         | 0       | 0 mm  | bottom     | 1:1       | 2.440          | 1.202              | 2.933  |     |
|                                                                                                   | SCC               | 1765.10   | 132523 | High | LTE Band 66 (AWS) | 10                          |                       |                  |          |                                                             |            |         | 1         | 49      |       |            |           |                |                    |        |     |
| CA_66C 2 CC Uplink                                                                                | PCC               | 1720.00   | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 19.8                  | 19.31            | -0.12    | 0                                                           | 1407M      | QPSK    | 50        | 50      | 0 mm  | bottom     | 1:1       | 2.280          | 1.119              | 2.551  |     |
|                                                                                                   | SCC               | 1739.80   | 132270 | Low  | LTE Band 66 (AWS) | 20                          |                       |                  |          |                                                             |            |         | 50        | 0       |       |            |           |                |                    |        |     |
| CA_66B 2 CC Uplink                                                                                | PCC               | 1715.00   | 132022 | Low  | LTE Band 66 (AWS) | 10                          | 19.8                  | 18.94            | -0.11    | 0                                                           | 1407M      | QPSK    | 25        | 25      | 0 mm  | bottom     | 1:1       | 2.030          | 1.219              | 2.475  |     |
|                                                                                                   | SCC               | 1724.90   | 132121 | Low  | LTE Band 66 (AWS) | 10                          |                       |                  |          |                                                             |            |         | 25        | 0       |       |            |           |                |                    |        |     |
| CA_66C 2 CC Uplink                                                                                | PCC               | 1745.00   | 132322 | Mid  | LTE Band 66 (AWS) | 20                          | 19.8                  | 19.10            | -0.19    | 0                                                           | 1407M      | QPSK    | 50        | 0       | 0 mm  | bottom     | 1:1       | 2.440          | 1.175              | 2.867  |     |
|                                                                                                   | SCC               | 1725.20   | 132124 | Mid  | LTE Band 66 (AWS) | 20                          |                       |                  |          |                                                             |            |         | 50        | 50      |       |            |           |                |                    |        |     |
| CA_66B 2 CC Uplink                                                                                | PCC               | 1745.00   | 132322 | Mid  | LTE Band 66 (AWS) | 10                          | 19.8                  | 18.99            | -0.13    | 0                                                           | 1407M      | QPSK    | 25        | 0       | 0 mm  | bottom     | 1:1       | 2.310          | 1.205              | 2.784  |     |
|                                                                                                   | SCC               | 1735.10   | 132223 | Mid  | LTE Band 66 (AWS) | 10                          |                       |                  |          |                                                             |            |         | 25        | 25      |       |            |           |                |                    |        |     |
| CA_66C 2 CC Uplink                                                                                | PCC               | 1770.00   | 132572 | High | LTE Band 66 (AWS) | 20                          | 19.8                  | 19.25            | -0.09    | 0                                                           | 1407M      | QPSK    | 50        | 0       | 0 mm  | bottom     | 1:1       | 2.900          | 1.135              | 3.292  | A92 |
|                                                                                                   | SCC               | 1750.20   | 132374 | High | LTE Band 66 (AWS) | 20                          |                       |                  |          |                                                             |            |         | 50        | 50      |       |            |           |                |                    |        |     |
| CA_66B 2 CC Uplink                                                                                | PCC               | 1775.00   | 132622 | High | LTE Band 66 (AWS) | 10                          | 19.8                  | 18.93            | -0.02    | 0                                                           | 1407M      | QPSK    | 25        | 0       | 0 mm  | bottom     | 1:1       | 2.660          | 1.222              | 3.251  |     |
|                                                                                                   | SCC               | 1765.10   | 132523 | High | LTE Band 66 (AWS) | 10                          |                       |                  |          |                                                             |            |         | 25        | 25      |       |            |           |                |                    |        |     |
| CA_66C 2 CC Uplink                                                                                | PCC               | 1770.00   | 132572 | High | LTE Band 66 (AWS) | 20                          | 19.8                  | 19.25            | 0.06     | 0                                                           | 1407M      | QPSK    | 50        | 0       | 0 mm  | bottom     | 1:1       | 2.900          | 1.135              | 3.292  |     |
|                                                                                                   | SCC               | 1750.20   | 132374 | High | LTE Band 66 (AWS) | 20                          |                       |                  |          |                                                             |            |         | 50        | 50      |       |            |           |                |                    |        |     |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |                   |           |        |      |                   |                             |                       |                  |          | UMPC Extremity<br>4.0 W/kg (mW/g)<br>averaged over 10 grams |            |         |           |         |       |            |           |                |                    |        |     |

Note: Blue Entry represents variability measurement

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset | Page 124 of 176                                                                       |                                 |

**Table 11-72**  
**LTE Band 25 (PCS) UMPC Extremity 10g SAR Data**

| 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 (10g) | Scaling Factor | Reported SAR (10g) | Plot # |
| Mhz                                                                                               | Ch.   | (W/kg) |                   |                 |                             |                       |                  |                                                             |                      |            |         |           |         |        |            | (W/kg)    |                |                    |        |
| 1860.00                                                                                           | 26140 | Low    | LTE Band 25 (PCS) | 20              | 25.0                        | 24.10                 | -0.13            | 0                                                           | 1362M                | QPSK       | 1       | 0         | 8 mm    | back   | 1:1        | 0.540     | 1.230          | 0.664              |        |
| 1860.00                                                                                           | 26140 | Low    | LTE Band 25 (PCS) | 20              | 24.0                        | 23.20                 | -0.12            | 1                                                           | 1362M                | QPSK       | 50      | 50        | 8 mm    | back   | 1:1        | 0.460     | 1.202          | 0.553              |        |
| 1860.00                                                                                           | 26140 | Low    | LTE Band 25 (PCS) | 20              | 25.0                        | 24.10                 | 0.07             | 0                                                           | 1362M                | QPSK       | 1       | 0         | 8 mm    | front  | 1:1        | 0.418     | 1.230          | 0.514              |        |
| 1860.00                                                                                           | 26140 | Low    | LTE Band 25 (PCS) | 20              | 24.0                        | 23.20                 | 0.01             | 1                                                           | 1362M                | QPSK       | 50      | 50        | 8 mm    | front  | 1:1        | 0.371     | 1.202          | 0.446              |        |
| 1860.00                                                                                           | 26140 | Low    | LTE Band 25 (PCS) | 20              | 25.0                        | 24.10                 | 0.05             | 0                                                           | 1362M                | QPSK       | 1       | 0         | 13 mm   | bottom | 1:1        | 0.406     | 1.230          | 0.499              |        |
| 1860.00                                                                                           | 26140 | Low    | LTE Band 25 (PCS) | 20              | 24.0                        | 23.20                 | -0.10            | 1                                                           | 1362M                | QPSK       | 50      | 50        | 13 mm   | bottom | 1:1        | 0.367     | 1.202          | 0.441              |        |
| 1860.00                                                                                           | 26140 | Low    | LTE Band 25 (PCS) | 20              | 25.0                        | 24.10                 | -0.16            | 0                                                           | 1362M                | QPSK       | 1       | 0         | 0 mm    | right  | 1:1        | 0.535     | 1.230          | 0.658              |        |
| 1860.00                                                                                           | 26140 | Low    | LTE Band 25 (PCS) | 20              | 24.0                        | 23.20                 | -0.09            | 1                                                           | 1362M                | QPSK       | 50      | 50        | 0 mm    | right  | 1:1        | 0.480     | 1.202          | 0.577              |        |
| 1905.00                                                                                           | 26590 | High   | LTE Band 25 (PCS) | 20              | 20.5                        | 20.49                 | 0.06             | 0                                                           | 1362M                | QPSK       | 1       | 0         | 0 mm    | back   | 1:1        | 1.500     | 1.002          | 1.503              |        |
| 1860.00                                                                                           | 26140 | Low    | LTE Band 25 (PCS) | 20              | 20.5                        | 20.41                 | 0.10             | 0                                                           | 1362M                | QPSK       | 50      | 50        | 0 mm    | back   | 1:1        | 1.580     | 1.021          | 1.613              |        |
| 1905.00                                                                                           | 26590 | High   | LTE Band 25 (PCS) | 20              | 20.5                        | 20.49                 | -0.08            | 0                                                           | 1362M                | QPSK       | 1       | 0         | 0 mm    | front  | 1:1        | 1.490     | 1.002          | 1.493              |        |
| 1860.00                                                                                           | 26140 | Low    | LTE Band 25 (PCS) | 20              | 20.5                        | 20.41                 | -0.10            | 0                                                           | 1362M                | QPSK       | 50      | 50        | 0 mm    | front  | 1:1        | 1.500     | 1.021          | 1.532              |        |
| 1860.00                                                                                           | 26140 | Low    | LTE Band 25 (PCS) | 20              | 20.5                        | 20.36                 | -0.18            | 0                                                           | 1362M                | QPSK       | 1       | 99        | 0 mm    | bottom | 1:1        | 2.930     | 1.033          | 3.027              |        |
| 1882.50                                                                                           | 26365 | Mid    | LTE Band 25 (PCS) | 20              | 20.5                        | 20.16                 | -0.14            | 0                                                           | 1362M                | QPSK       | 1       | 0         | 0 mm    | bottom | 1:1        | 2.990     | 1.081          | 3.232              |        |
| 1905.00                                                                                           | 26590 | High   | LTE Band 25 (PCS) | 20              | 20.5                        | 20.49                 | -0.19            | 0                                                           | 1362M                | QPSK       | 1       | 0         | 0 mm    | bottom | 1:1        | 3.000     | 1.002          | 3.006              |        |
| 1860.00                                                                                           | 26140 | Low    | LTE Band 25 (PCS) | 20              | 20.5                        | 20.41                 | -0.19            | 0                                                           | 1362M                | QPSK       | 50      | 50        | 0 mm    | bottom | 1:1        | 3.080     | 1.021          | 3.145              |        |
| 1882.50                                                                                           | 26365 | Mid    | LTE Band 25 (PCS) | 20              | 20.5                        | 20.38                 | -0.16            | 0                                                           | 1362M                | QPSK       | 50      | 0         | 0 mm    | bottom | 1:1        | 3.200     | 1.028          | 3.290              | A93    |
| 1905.00                                                                                           | 26590 | High   | LTE Band 25 (PCS) | 20              | 20.5                        | 20.37                 | -0.12            | 0                                                           | 1362M                | QPSK       | 50      | 25        | 0 mm    | bottom | 1:1        | 3.170     | 1.030          | 3.265              |        |
| 1860.00                                                                                           | 26140 | Low    | LTE Band 25 (PCS) | 20              | 20.5                        | 20.29                 | -0.18            | 0                                                           | 1362M                | QPSK       | 100     | 0         | 0 mm    | bottom | 1:1        | 3.070     | 1.050          | 3.224              |        |
| 1882.50                                                                                           | 26365 | Mid    | LTE Band 25 (PCS) | 20              | 20.5                        | 20.38                 | -0.05            | 0                                                           | 1362M                | QPSK       | 50      | 0         | 0 mm    | bottom | 1:1        | 3.200     | 1.028          | 3.290              |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |       |        |                   |                 |                             |                       |                  | UMPC Extremity<br>4.0 W/kg (mW/g)<br>averaged over 10 grams |                      |            |         |           |         |        |            |           |                |                    |        |

Note: Blue Entry represents variability measurement

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 125 of 176                 |

**Table 11-73**  
**LTE Band 30 UMPC Extremity 10g SAR Data**

| 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 (10g) | Scaling Factor | Reported SAR (10g) | Plot # |
| Mhz                                                                                               | Ch.   | (W/kg) |             |                 |                             |                       |                  |          |                                                             |            |         |           |         |        |            | (W/kg)    |                |                    |        |
| 2310.00                                                                                           | 27710 | Mid    | LTE Band 30 | 10              | 25.0                        | 24.33                 | 0.04             | 0        | 1404M                                                       | QPSK       | 1       | 0         | 8 mm    | back   | 1:1        | 0.481     | 1.167          | 0.561              |        |
| 2310.00                                                                                           | 27710 | Mid    | LTE Band 30 | 10              | 24.0                        | 23.35                 | 0.01             | 1        | 1404M                                                       | QPSK       | 25      | 12        | 8 mm    | back   | 1:1        | 0.399     | 1.161          | 0.463              |        |
| 2310.00                                                                                           | 27710 | Mid    | LTE Band 30 | 10              | 25.0                        | 24.33                 | 0.02             | 0        | 1404M                                                       | QPSK       | 1       | 0         | 8 mm    | front  | 1:1        | 0.421     | 1.167          | 0.491              |        |
| 2310.00                                                                                           | 27710 | Mid    | LTE Band 30 | 10              | 24.0                        | 23.35                 | 0.00             | 1        | 1404M                                                       | QPSK       | 25      | 12        | 8 mm    | front  | 1:1        | 0.346     | 1.161          | 0.402              |        |
| 2310.00                                                                                           | 27710 | Mid    | LTE Band 30 | 10              | 25.0                        | 24.33                 | -0.11            | 0        | 1404M                                                       | QPSK       | 1       | 0         | 13 mm   | bottom | 1:1        | 0.506     | 1.167          | 0.591              |        |
| 2310.00                                                                                           | 27710 | Mid    | LTE Band 30 | 10              | 24.0                        | 23.35                 | -0.03            | 1        | 1404M                                                       | QPSK       | 25      | 12        | 13 mm   | bottom | 1:1        | 0.417     | 1.161          | 0.484              |        |
| 2310.00                                                                                           | 27710 | Mid    | LTE Band 30 | 10              | 25.0                        | 24.33                 | 0.04             | 0        | 1404M                                                       | QPSK       | 1       | 0         | 0 mm    | right  | 1:1        | 0.498     | 1.167          | 0.581              |        |
| 2310.00                                                                                           | 27710 | Mid    | LTE Band 30 | 10              | 24.0                        | 23.35                 | 0.01             | 1        | 1404M                                                       | QPSK       | 25      | 12        | 0 mm    | right  | 1:1        | 0.419     | 1.161          | 0.486              |        |
| 2310.00                                                                                           | 27710 | Mid    | LTE Band 30 | 10              | 21.0                        | 20.33                 | -0.10            | 0        | 1404M                                                       | QPSK       | 1       | 25        | 0 mm    | back   | 1:1        | 0.770     | 1.167          | 0.899              |        |
| 2310.00                                                                                           | 27710 | Mid    | LTE Band 30 | 10              | 21.0                        | 20.29                 | -0.06            | 0        | 1404M                                                       | QPSK       | 25      | 12        | 0 mm    | back   | 1:1        | 0.807     | 1.178          | 0.951              |        |
| 2310.00                                                                                           | 27710 | Mid    | LTE Band 30 | 10              | 21.0                        | 20.33                 | 0.15             | 0        | 1404M                                                       | QPSK       | 1       | 25        | 0 mm    | front  | 1:1        | 0.982     | 1.167          | 1.146              |        |
| 2310.00                                                                                           | 27710 | Mid    | LTE Band 30 | 10              | 21.0                        | 20.29                 | -0.03            | 0        | 1404M                                                       | QPSK       | 25      | 12        | 0 mm    | front  | 1:1        | 1.040     | 1.178          | 1.225              |        |
| 2310.00                                                                                           | 27710 | Mid    | LTE Band 30 | 10              | 21.0                        | 20.33                 | -0.12            | 0        | 1404M                                                       | QPSK       | 1       | 25        | 0 mm    | bottom | 1:1        | 2.780     | 1.167          | 3.244              |        |
| 2310.00                                                                                           | 27710 | Mid    | LTE Band 30 | 10              | 21.0                        | 20.29                 | 0.03             | 0        | 1404M                                                       | QPSK       | 25      | 12        | 0 mm    | bottom | 1:1        | 2.790     | 1.178          | 3.287              | A94    |
| 2310.00                                                                                           | 27710 | Mid    | LTE Band 30 | 10              | 21.0                        | 20.26                 | 0.04             | 0        | 1404M                                                       | QPSK       | 50      | 0         | 0 mm    | bottom | 1:1        | 2.750     | 1.186          | 3.262              |        |
| 2310.00                                                                                           | 27710 | Mid    | LTE Band 30 | 10              | 21.0                        | 20.29                 | 0.04             | 0        | 1404M                                                       | QPSK       | 25      | 12        | 0 mm    | bottom | 1:1        | 2.780     | 1.178          | 3.275              |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |       |        |             |                 |                             |                       |                  |          | UMPC Extremity<br>4.0 W/kg (mW/g)<br>averaged over 10 grams |            |         |           |         |        |            |           |                |                    |        |

Note: Blue Entry represents variability measurement

**Table 11-74**  
**LTE Band 7 UMPC Extremity 10g SAR Data**

| 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]                                                    | Device Serial Number | Modulation | RB Size | RB Offset | Spacing | Side   | Duty Cycle | SAR (10g) | Scaling Factor | Reported SAR (10g) | Plot # |
|                                                                                                   |                   | MHz       | Ch.   | (W/kg) |            |                 |                             |                       |                  |                                                             |                      |            |         |           |         |        |            | (W/kg)    |                |                    |        |
| 1 CC Uplink                                                                                       | N/A               | 2510.00   | 20850 | Low    | LTE Band 7 | 20              | 24.6                        | 24.17                 | 0.02             | 0                                                           | 1404M                | QPSK       | 1       | 99        | 8 mm    | back   | 1:1        | 0.646     | 1.104          | 0.713              |        |
| 1 CC Uplink                                                                                       | N/A               | 2510.00   | 20850 | Low    | LTE Band 7 | 20              | 23.6                        | 23.22                 | -0.02            | 1                                                           | 1404M                | QPSK       | 50      | 0         | 8 mm    | back   | 1:1        | 0.377     | 1.091          | 0.411              |        |
| 1 CC Uplink                                                                                       | N/A               | 2510.00   | 20850 | Low    | LTE Band 7 | 20              | 24.6                        | 24.17                 | -0.03            | 0                                                           | 1404M                | QPSK       | 1       | 99        | 8 mm    | front  | 1:1        | 0.577     | 1.104          | 0.637              |        |
| 1 CC Uplink                                                                                       | N/A               | 2510.00   | 20850 | Low    | LTE Band 7 | 20              | 23.6                        | 23.22                 | -0.09            | 1                                                           | 1404M                | QPSK       | 50      | 0         | 8 mm    | front  | 1:1        | 0.347     | 1.091          | 0.379              |        |
| 1 CC Uplink                                                                                       | N/A               | 2510.00   | 20850 | Low    | LTE Band 7 | 20              | 24.6                        | 24.17                 | -0.05            | 0                                                           | 1404M                | QPSK       | 1       | 99        | 13 mm   | bottom | 1:1        | 0.537     | 1.104          | 0.593              |        |
| 1 CC Uplink                                                                                       | N/A               | 2510.00   | 20850 | Low    | LTE Band 7 | 20              | 23.6                        | 23.22                 | -0.02            | 1                                                           | 1404M                | QPSK       | 50      | 0         | 13 mm   | bottom | 1:1        | 0.312     | 1.091          | 0.340              |        |
| 1 CC Uplink                                                                                       | N/A               | 2510.00   | 20850 | Low    | LTE Band 7 | 20              | 24.6                        | 24.17                 | -0.11            | 0                                                           | 1404M                | QPSK       | 1       | 99        | 0 mm    | right  | 1:1        | 0.820     | 1.104          | 0.905              |        |
| 1 CC Uplink                                                                                       | N/A               | 2510.00   | 20850 | Low    | LTE Band 7 | 20              | 23.6                        | 23.22                 | -0.09            | 1                                                           | 1404M                | QPSK       | 50      | 0         | 0 mm    | right  | 1:1        | 0.483     | 1.091          | 0.527              |        |
| 1 CC Uplink                                                                                       | N/A               | 2510.00   | 20850 | Low    | LTE Band 7 | 20              | 19.5                        | 18.78                 | -0.04            | 0                                                           | 1385M                | QPSK       | 1       | 99        | 0 mm    | back   | 1:1        | 0.497     | 1.180          | 0.586              |        |
| 1 CC Uplink                                                                                       | N/A               | 2510.00   | 20850 | Low    | LTE Band 7 | 20              | 19.5                        | 18.97                 | -0.02            | 0                                                           | 1385M                | QPSK       | 50      | 50        | 0 mm    | back   | 1:1        | 0.482     | 1.130          | 0.545              |        |
| 1 CC Uplink                                                                                       | N/A               | 2510.00   | 20850 | Low    | LTE Band 7 | 20              | 19.5                        | 18.78                 | 0.02             | 0                                                           | 1385M                | QPSK       | 1       | 99        | 0 mm    | front  | 1:1        | 0.888     | 1.180          | 1.048              |        |
| 1 CC Uplink                                                                                       | N/A               | 2510.00   | 20850 | Low    | LTE Band 7 | 20              | 19.5                        | 18.97                 | 0.04             | 0                                                           | 1385M                | QPSK       | 50      | 50        | 0 mm    | front  | 1:1        | 0.891     | 1.130          | 1.007              |        |
| 1 CC Uplink                                                                                       | N/A               | 2510.00   | 20850 | Low    | LTE Band 7 | 20              | 19.5                        | 18.78                 | -0.06            | 0                                                           | 1385M                | QPSK       | 1       | 99        | 0 mm    | bottom | 1:1        | 1.850     | 1.180          | 2.183              |        |
| 1 CC Uplink                                                                                       | N/A               | 2535.00   | 21100 | Mid    | LTE Band 7 | 20              | 19.5                        | 18.62                 | 0.03             | 0                                                           | 1385M                | QPSK       | 1       | 0         | 0 mm    | bottom | 1:1        | 1.840     | 1.225          | 2.254              |        |
| 1 CC Uplink                                                                                       | N/A               | 2560.00   | 21350 | High   | LTE Band 7 | 20              | 19.5                        | 18.56                 | 0.09             | 0                                                           | 1385M                | QPSK       | 1       | 0         | 0 mm    | bottom | 1:1        | 2.010     | 1.242          | 2.496              |        |
| 1 CC Uplink                                                                                       | N/A               | 2510.00   | 20850 | Low    | LTE Band 7 | 20              | 19.5                        | 18.97                 | -0.04            | 0                                                           | 1385M                | QPSK       | 50      | 50        | 0 mm    | bottom | 1:1        | 1.890     | 1.130          | 2.136              |        |
| 1 CC Uplink                                                                                       | N/A               | 2535.00   | 21100 | Mid    | LTE Band 7 | 20              | 19.5                        | 18.81                 | 0.03             | 0                                                           | 1385M                | QPSK       | 50      | 0         | 0 mm    | bottom | 1:1        | 1.930     | 1.172          | 2.262              |        |
| 1 CC Uplink                                                                                       | N/A               | 2560.00   | 21350 | High   | LTE Band 7 | 20              | 19.5                        | 18.68                 | 0.07             | 0                                                           | 1385M                | QPSK       | 50      | 0         | 0 mm    | bottom | 1:1        | 2.180     | 1.208          | 2.633              |        |
| 1 CC Uplink                                                                                       | N/A               | 2510.00   | 20850 | Low    | LTE Band 7 | 20              | 19.5                        | 18.73                 | 0.03             | 0                                                           | 1385M                | QPSK       | 100     | 0         | 0 mm    | bottom | 1:1        | 1.790     | 1.194          | 2.137              |        |
| 2 CC Uplink                                                                                       | PCC               | 2560.00   | 21350 | High   | LTE Band 7 | 20              | 19.5                        | 19.18                 | 0.01             | 0                                                           | 1385M                | QPSK       | 50      | 0         | 0 mm    | bottom | 1:1        | 2.540     | 1.076          | 2.733              | A95    |
|                                                                                                   | SCC               | 2540.20   | 21152 | High   | LTE Band 7 | 20              |                             |                       |                  |                                                             |                      |            | 50      | 50        |         |        |            |           |                |                    |        |
| 2 CC Uplink                                                                                       | PCC               | 2560.00   | 21350 | High   | LTE Band 7 | 20              | 19.5                        | 19.18                 | 0.01             | 0                                                           | 1385M                | QPSK       | 50      | 0         | 0 mm    | bottom | 1:1        | 2.510     | 1.076          | 2.701              |        |
|                                                                                                   | SCC               | 2540.20   | 21152 | High   | LTE Band 7 | 20              |                             |                       |                  |                                                             |                      |            | 50      | 50        |         |        |            |           |                |                    |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |                   |           |       |        |            |                 |                             |                       |                  | UMPC Extremity<br>4.0 W/kg (mW/g)<br>averaged over 10 grams |                      |            |         |           |         |        |            |           |                |                    |        |

Note: Blue Entry represents variability measurement

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 126 of 176                 |

**Table 11-75**  
**LTE Band 41 UMPC Extremity 10g SAR Data**

| 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 (10g) | Scaling Factor | Reported SAR (10g) | Plot # |     |
| MHz                                                                                               | Ch.   |          |                 |                             |                       |                  |          |                                                             |            |         |           |         |       |            | (W/kg)    |                | (W/kg)             |        |     |
| 2636.50                                                                                           | 41055 | Mid-High | LTE Band 41     | 20                          | 25.0                  | 24.35            | 0.02     | 0                                                           | 1404M      | QPSK    | 1         | 0       | 8 mm  | back       | 1:1.58    | 0.475          | 1.161              | 0.551  |     |
| 2636.50                                                                                           | 41055 | Mid-High | LTE Band 41     | 20                          | 24.0                  | 23.52            | 0.05     | 1                                                           | 1404M      | QPSK    | 50        | 0       | 8 mm  | back       | 1:1.58    | 0.382          | 1.117              | 0.427  |     |
| 2636.50                                                                                           | 41055 | Mid-High | LTE Band 41     | 20                          | 25.0                  | 24.35            | 0.04     | 0                                                           | 1404M      | QPSK    | 1         | 0       | 8 mm  | front      | 1:1.58    | 0.508          | 1.161              | 0.590  |     |
| 2636.50                                                                                           | 41055 | Mid-High | LTE Band 41     | 20                          | 24.0                  | 23.52            | -0.07    | 1                                                           | 1404M      | QPSK    | 50        | 0       | 8 mm  | front      | 1:1.58    | 0.411          | 1.117              | 0.459  |     |
| 2636.50                                                                                           | 41055 | Mid-High | LTE Band 41     | 20                          | 25.0                  | 24.35            | 0.00     | 0                                                           | 1404M      | QPSK    | 1         | 0       | 13 mm | bottom     | 1:1.58    | 0.424          | 1.161              | 0.492  |     |
| 2636.50                                                                                           | 41055 | Mid-High | LTE Band 41     | 20                          | 24.0                  | 23.52            | -0.02    | 1                                                           | 1404M      | QPSK    | 50        | 0       | 13 mm | bottom     | 1:1.58    | 0.339          | 1.117              | 0.379  |     |
| 2636.50                                                                                           | 41055 | Mid-High | LTE Band 41     | 20                          | 25.0                  | 24.35            | -0.14    | 0                                                           | 1404M      | QPSK    | 1         | 0       | 0 mm  | right      | 1:1.58    | 1.140          | 1.161              | 1.324  |     |
| 2636.50                                                                                           | 41055 | Mid-High | LTE Band 41     | 20                          | 24.0                  | 23.52            | -0.12    | 1                                                           | 1404M      | QPSK    | 50        | 0       | 0 mm  | right      | 1:1.58    | 0.964          | 1.117              | 1.077  |     |
| 2549.50                                                                                           | 40185 | Low-Mid  | LTE Band 41     | 20                          | 21.5                  | 20.25            | 0.10     | 0                                                           | 1404M      | QPSK    | 1         | 0       | 0 mm  | back       | 1:1.58    | 0.895          | 1.334              | 1.194  |     |
| 2636.50                                                                                           | 41055 | Mid-High | LTE Band 41     | 20                          | 21.5                  | 20.27            | 0.12     | 0                                                           | 1404M      | QPSK    | 50        | 0       | 0 mm  | back       | 1:1.58    | 1.020          | 1.327              | 1.354  |     |
| 2549.50                                                                                           | 40185 | Low-Mid  | LTE Band 41     | 20                          | 21.5                  | 20.25            | 0.01     | 0                                                           | 1404M      | QPSK    | 1         | 0       | 0 mm  | front      | 1:1.58    | 1.030          | 1.334              | 1.374  |     |
| 2506.00                                                                                           | 39750 | Low      | LTE Band 41     | 20                          | 21.5                  | 20.25            | -0.09    | 0                                                           | 1404M      | QPSK    | 50        | 0       | 0 mm  | front      | 1:1.58    | 0.843          | 1.334              | 1.125  |     |
| 2549.50                                                                                           | 40185 | Low-Mid  | LTE Band 41     | 20                          | 21.5                  | 20.26            | -0.08    | 0                                                           | 1404M      | QPSK    | 50        | 0       | 0 mm  | front      | 1:1.58    | 0.878          | 1.330              | 1.168  |     |
| 2593.00                                                                                           | 40620 | Mid      | LTE Band 41     | 20                          | 21.5                  | 20.25            | -0.06    | 0                                                           | 1404M      | QPSK    | 50        | 0       | 0 mm  | front      | 1:1.58    | 0.905          | 1.334              | 1.207  |     |
| 2636.50                                                                                           | 41055 | Mid-High | LTE Band 41     | 20                          | 21.5                  | 20.27            | 0.09     | 0                                                           | 1404M      | QPSK    | 50        | 0       | 0 mm  | front      | 1:1.58    | 1.160          | 1.327              | 1.539  |     |
| 2680.00                                                                                           | 41490 | High     | LTE Band 41     | 20                          | 21.5                  | 20.23            | -0.06    | 0                                                           | 1404M      | QPSK    | 50        | 0       | 0 mm  | front      | 1:1.58    | 0.945          | 1.340              | 1.266  |     |
| 2506.00                                                                                           | 39750 | Low      | LTE Band 41     | 20                          | 21.5                  | 20.24            | -0.03    | 0                                                           | 1404M      | QPSK    | 100       | 0       | 0 mm  | front      | 1:1.58    | 0.835          | 1.337              | 1.116  |     |
| 2506.00                                                                                           | 39750 | Low      | LTE Band 41     | 20                          | 21.5                  | 20.17            | 0.14     | 0                                                           | 1404M      | QPSK    | 1         | 0       | 0 mm  | bottom     | 1:1.58    | 1.970          | 1.358              | 2.675  |     |
| 2549.50                                                                                           | 40185 | Low-Mid  | LTE Band 41     | 20                          | 21.5                  | 20.25            | -0.07    | 0                                                           | 1404M      | QPSK    | 1         | 0       | 0 mm  | bottom     | 1:1.58    | 2.050          | 1.334              | 2.735  |     |
| 2593.00                                                                                           | 40620 | Mid      | LTE Band 41     | 20                          | 21.5                  | 20.05            | 0.05     | 0                                                           | 1404M      | QPSK    | 1         | 0       | 0 mm  | bottom     | 1:1.58    | 2.080          | 1.396              | 2.904  |     |
| 2636.50                                                                                           | 41055 | Mid-High | LTE Band 41     | 20                          | 21.5                  | 20.18            | 0.03     | 0                                                           | 1404M      | QPSK    | 1         | 0       | 0 mm  | bottom     | 1:1.58    | 2.260          | 1.355              | 3.062  |     |
| 2680.00                                                                                           | 41490 | High     | LTE Band 41     | 20                          | 21.5                  | 20.10            | 0.09     | 0                                                           | 1404M      | QPSK    | 1         | 99      | 0 mm  | bottom     | 1:1.58    | 2.350          | 1.380              | 3.243  |     |
| 2506.00                                                                                           | 39750 | Low      | LTE Band 41     | 20                          | 21.5                  | 20.25            | 0.02     | 0                                                           | 1404M      | QPSK    | 50        | 0       | 0 mm  | bottom     | 1:1.58    | 2.050          | 1.334              | 2.735  |     |
| 2549.50                                                                                           | 40185 | Low-Mid  | LTE Band 41     | 20                          | 21.5                  | 20.26            | -0.03    | 0                                                           | 1404M      | QPSK    | 50        | 0       | 0 mm  | bottom     | 1:1.58    | 2.130          | 1.330              | 2.833  |     |
| 2593.00                                                                                           | 40620 | Mid      | LTE Band 41     | 20                          | 21.5                  | 20.25            | 0.07     | 0                                                           | 1404M      | QPSK    | 50        | 0       | 0 mm  | bottom     | 1:1.58    | 2.210          | 1.334              | 2.948  |     |
| 2636.50                                                                                           | 41055 | Mid-High | LTE Band 41     | 20                          | 21.5                  | 20.27            | 0.03     | 0                                                           | 1404M      | QPSK    | 50        | 0       | 0 mm  | bottom     | 1:1.58    | 2.350          | 1.327              | 3.118  |     |
| 2680.00                                                                                           | 41490 | High     | LTE Band 41     | 20                          | 21.5                  | 20.23            | 0.03     | 0                                                           | 1404M      | QPSK    | 50        | 0       | 0 mm  | bottom     | 1:1.58    | 2.390          | 1.340              | 3.203  | A96 |
| 2506.00                                                                                           | 39750 | Low      | LTE Band 41     | 20                          | 21.5                  | 20.24            | -0.09    | 0                                                           | 1404M      | QPSK    | 100       | 0       | 0 mm  | bottom     | 1:1.58    | 2.060          | 1.337              | 2.754  |     |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |       |          |                 |                             |                       |                  |          | UMPC Extremity<br>4.0 W/kg (mW/g)<br>averaged over 10 grams |            |         |           |         |       |            |           |                |                    |        |     |

|                                                |                                                                                     |                                      |                                                                                       |                                        |
|------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMF900F                             |  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                             | <b>DUT Type:</b><br>Portable Handset | Page 127 of 176                                                                       |                                        |

**Table 11-76**  
**DTS SISO UMPC Extremity 10g SAR Data**

| MEASUREMENT RESULTS                                                                               |     |         |         |                 |                             |                       |                  |                                                             |                 |                      |                  |       |                |                       |           |                        |                             |                    |        |
|---------------------------------------------------------------------------------------------------|-----|---------|---------|-----------------|-----------------------------|-----------------------|------------------|-------------------------------------------------------------|-----------------|----------------------|------------------|-------|----------------|-----------------------|-----------|------------------------|-----------------------------|--------------------|--------|
| FREQUENCY                                                                                         |     | Mode    | Service | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | Spacing                                                     | Antenna Config. | Device Serial Number | Data Rate (Mbps) | Side  | Duty Cycle (%) | Peak SAR of Area Scan | SAR (10g) | Scaling Factor (Power) | Scaling Factor (Duty Cycle) | Reported SAR (10g) | Plot # |
| MHz                                                                                               | Ch. |         |         |                 |                             |                       |                  |                                                             |                 |                      |                  |       |                | W/kg                  | (W/kg)    |                        | (W/kg)                      |                    |        |
| 2412                                                                                              | 1   | 802.11b | DSSS    | 22              | 20.0                        | 19.97                 | 0.12             | 0 mm                                                        | 1               | 1385M                | 1                | back  | 99.9           | 5.682                 | 1.750     | 1.007                  | 1.001                       | 1.764              | A97    |
| 2412                                                                                              | 1   | 802.11b | DSSS    | 22              | 20.0                        | 19.97                 | 0.19             | 0 mm                                                        | 1               | 1385M                | 1                | front | 99.9           | 8.954                 | 3.160     | 1.007                  | 1.001                       | 3.185              |        |
| 2437                                                                                              | 6   | 802.11b | DSSS    | 22              | 20.0                        | 19.92                 | 0.06             | 0 mm                                                        | 1               | 1385M                | 1                | front | 99.9           | 6.868                 | 2.150     | 1.019                  | 1.001                       | 2.193              |        |
| 2462                                                                                              | 11  | 802.11b | DSSS    | 22              | 20.0                        | 19.72                 | -0.03            | 0 mm                                                        | 1               | 1385M                | 1                | front | 99.9           | 5.925                 | 1.850     | 1.067                  | 1.001                       | 1.976              |        |
| 2412                                                                                              | 1   | 802.11b | DSSS    | 22              | 20.0                        | 19.97                 | 0.04             | 0 mm                                                        | 1               | 1385M                | 1                | top   | 99.9           | 9.698                 | 2.380     | 1.007                  | 1.001                       | 2.399              |        |
| 2437                                                                                              | 6   | 802.11b | DSSS    | 22              | 20.0                        | 19.92                 | -0.06            | 0 mm                                                        | 1               | 1385M                | 1                | top   | 99.9           | 5.429                 | 1.550     | 1.019                  | 1.001                       | 1.581              |        |
| 2462                                                                                              | 11  | 802.11b | DSSS    | 22              | 20.0                        | 19.72                 | -0.07            | 0 mm                                                        | 1               | 1385M                | 1                | top   | 99.9           | 3.837                 | 1.120     | 1.067                  | 1.001                       | 1.196              |        |
| 2412                                                                                              | 1   | 802.11b | DSSS    | 22              | 20.0                        | 19.97                 | 0.09             | 0 mm                                                        | 1               | 1385M                | 1                | right | 99.9           | 3.846                 | 0.853     | 1.007                  | 1.001                       | 0.860              |        |
| 2412                                                                                              | 1   | 802.11b | DSSS    | 22              | 20.0                        | 19.98                 | 0.05             | 0 mm                                                        | 2               | 1385M                | 1                | back  | 99.9           | 3.788                 | 1.110     | 1.005                  | 1.001                       | 1.117              |        |
| 2412                                                                                              | 1   | 802.11b | DSSS    | 22              | 20.0                        | 19.98                 | 0.04             | 0 mm                                                        | 2               | 1385M                | 1                | front | 99.9           | 1.513                 | 0.522     | 1.005                  | 1.001                       | 0.525              |        |
| 2412                                                                                              | 1   | 802.11b | DSSS    | 22              | 20.0                        | 19.98                 | 0.02             | 0 mm                                                        | 2               | 1385M                | 1                | top   | 99.9           | 3.866                 | 0.777     | 1.005                  | 1.001                       | 0.782              |        |
| 2412                                                                                              | 1   | 802.11b | DSSS    | 22              | 20.0                        | 19.97                 | 0.08             | 0 mm                                                        | 1               | 1385M                | 1                | front | 99.9           | 5.063                 | 3.030     | 1.007                  | 1.001                       | 3.054              |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |     |         |         |                 |                             |                       |                  | UMPC Extremity<br>4.0 W/kg (mW/g)<br>averaged over 10 grams |                 |                      |                  |       |                |                       |           |                        |                             |                    |        |

Note: Blue Entry represents variability measurement

**Table 11-77**  
**DTS MIMO UMPC Extremity 10g SAR Data**

| MEASUREMENT RESULTS                                                                               |     |         |         |                 |                                     |                               |                                     |                               |                  |         |                 |                      |                  |       |                                                             |                       |           |                        |                             |                    |        |
|---------------------------------------------------------------------------------------------------|-----|---------|---------|-----------------|-------------------------------------|-------------------------------|-------------------------------------|-------------------------------|------------------|---------|-----------------|----------------------|------------------|-------|-------------------------------------------------------------|-----------------------|-----------|------------------------|-----------------------------|--------------------|--------|
| FREQUENCY                                                                                         |     | Mode    | Service | Bandwidth [MHz] | Maximum Allowed Power (Ant 1) [dBm] | Conducted Power (Ant 1) [dBm] | Maximum Allowed Power (Ant 2) [dBm] | Conducted Power (Ant 2) [dBm] | Power Drift [dB] | Spacing | Antenna Config. | Device Serial Number | Data Rate (Mbps) | Side  | Duty Cycle (%)                                              | Peak SAR of Area Scan | SAR (10g) | Scaling Factor (Power) | Scaling Factor (Duty Cycle) | Reported SAR (10g) | Plot # |
| MHz                                                                                               | Ch. |         |         |                 |                                     |                               |                                     |                               |                  |         |                 |                      |                  |       |                                                             | W/kg                  | (W/kg)    |                        |                             | (W/kg)             |        |
| 2452                                                                                              | 9   | 802.11n | OFDM    | 20              | 18.0                                | 17.96                         | 18.0                                | 17.85                         | -0.03            | 0 mm    | MIMO            | 1360M                | 13               | back  | 98.7                                                        | 3.433                 | 0.983     | 1.035                  | 1.013                       | 1.031              |        |
| 2427                                                                                              | 4   | 802.11n | OFDM    | 20              | 18.0                                | 17.76                         | 18.0                                | 17.98                         | 0.08             | 0 mm    | MIMO            | 1360M                | 13               | front | 98.7                                                        | 5.477                 | 1.120     | 1.057                  | 1.013                       | 1.199              |        |
| 2437                                                                                              | 6   | 802.11n | OFDM    | 20              | 18.0                                | 17.85                         | 18.0                                | 17.89                         | 0.09             | 0 mm    | MIMO            | 1360M                | 13               | front | 98.7                                                        | 4.466                 | 0.924     | 1.035                  | 1.013                       | 0.969              |        |
| 2452                                                                                              | 9   | 802.11n | OFDM    | 20              | 18.0                                | 17.96                         | 18.0                                | 17.85                         | 0.03             | 0 mm    | MIMO            | 1360M                | 13               | front | 98.7                                                        | 7.764                 | 1.580     | 1.035                  | 1.013                       | 1.657              |        |
| 2452                                                                                              | 9   | 802.11n | OFDM    | 20              | 18.0                                | 17.96                         | 18.0                                | 17.85                         | -0.04            | 0 mm    | MIMO            | 1360M                | 13               | top   | 98.7                                                        | 6.469                 | 1.460     | 1.035                  | 1.013                       | 1.531              |        |
| 2452                                                                                              | 9   | 802.11n | OFDM    | 20              | 18.0                                | 17.96                         | 18.0                                | 17.85                         | 0.03             | 0 mm    | MIMO            | 1360M                | 13               | right | 98.7                                                        | 2.922                 | 0.499     | 1.035                  | 1.013                       | 0.523              |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |     |         |         |                 |                                     |                               |                                     |                               |                  |         |                 |                      |                  |       | UMPC Extremity<br>4.0 W/kg (mW/g)<br>averaged over 10 grams |                       |           |                        |                             |                    |        |

Note: To achieve the 21.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 18.0 dBm.

|                                                |                                                                                     |                                      |                                                                                       |                                        |
|------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMF900F                             |  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                             | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 128 of 176                        |

**Table 11-78**  
**NII UMPC Extremity 10g SAR Data**

| MEASUREMENT RESULTS                                                                               |     |         |         |                 |                             |                       |                  |                                                             |                 |                      |                  |       |                |                       |           |                        |                             |                    |        |
|---------------------------------------------------------------------------------------------------|-----|---------|---------|-----------------|-----------------------------|-----------------------|------------------|-------------------------------------------------------------|-----------------|----------------------|------------------|-------|----------------|-----------------------|-----------|------------------------|-----------------------------|--------------------|--------|
| FREQUENCY                                                                                         |     | Mode    | Service | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | Spacing                                                     | Antenna Config. | Device Serial Number | Data Rate (Mbps) | Side  | Duty Cycle (%) | Peak SAR of Area Scan | SAR (10g) | Scaling Factor (Power) | Scaling Factor (Duty Cycle) | Reported SAR (10g) | Plot # |
| MHz                                                                                               | Ch. |         |         |                 |                             |                       |                  |                                                             |                 |                      |                  |       |                | W/kg                  | (W/kg)    |                        |                             | (W/kg)             |        |
| 5320                                                                                              | 64  | 802.11a | OFDM    | 20              | 18.0                        | 17.91                 | 0.04             | 0 mm                                                        | 1               | 1360M                | 6                | back  | 98.8           | 4.766                 | 0.747     | 1.021                  | 1.013                       | 0.773              |        |
| 5320                                                                                              | 64  | 802.11a | OFDM    | 20              | 18.0                        | 17.91                 | 0.00             | 0 mm                                                        | 1               | 1360M                | 6                | front | 98.8           | 2.671                 | 0.357     | 1.021                  | 1.013                       | 0.369              |        |
| 5320                                                                                              | 64  | 802.11a | OFDM    | 20              | 18.0                        | 17.91                 | 0.13             | 0 mm                                                        | 1               | 1360M                | 6                | top   | 98.8           | 4.142                 | -         | 1.021                  | 1.013                       | -                  |        |
| 5320                                                                                              | 64  | 802.11a | OFDM    | 20              | 18.0                        | 17.91                 | -0.02            | 0 mm                                                        | 1               | 1360M                | 6                | right | 98.8           | 1.167                 | -         | 1.021                  | 1.013                       | -                  |        |
| 5280                                                                                              | 56  | 802.11a | OFDM    | 20              | 18.0                        | 17.99                 | -0.13            | 0 mm                                                        | 2               | 1360M                | 6                | back  | 98.7           | 3.858                 | 0.430     | 1.002                  | 1.013                       | 0.436              |        |
| 5280                                                                                              | 56  | 802.11a | OFDM    | 20              | 18.0                        | 17.99                 | 0.00             | 0 mm                                                        | 2               | 1360M                | 6                | front | 98.7           | 3.423                 | -         | 1.002                  | 1.013                       | -                  |        |
| 5280                                                                                              | 56  | 802.11a | OFDM    | 20              | 18.0                        | 17.99                 | 0.00             | 0 mm                                                        | 2               | 1360M                | 6                | top   | 98.7           | 9.498                 | 0.621     | 1.002                  | 1.013                       | 0.630              |        |
| 5500                                                                                              | 100 | 802.11a | OFDM    | 20              | 18.0                        | 17.94                 | 0.01             | 0 mm                                                        | 1               | 1360M                | 6                | back  | 98.8           | 6.745                 | 0.827     | 1.014                  | 1.013                       | 0.849              | A98    |
| 5500                                                                                              | 100 | 802.11a | OFDM    | 20              | 18.0                        | 17.94                 | 0.09             | 0 mm                                                        | 1               | 1360M                | 6                | front | 98.8           | 3.752                 | 0.537     | 1.014                  | 1.013                       | 0.552              |        |
| 5500                                                                                              | 100 | 802.11a | OFDM    | 20              | 18.0                        | 17.94                 | 0.08             | 0 mm                                                        | 1               | 1360M                | 6                | top   | 98.8           | 5.582                 | -         | 1.014                  | 1.013                       | -                  |        |
| 5500                                                                                              | 100 | 802.11a | OFDM    | 20              | 18.0                        | 17.94                 | -0.13            | 0 mm                                                        | 1               | 1360M                | 6                | right | 98.8           | 0.762                 | -         | 1.014                  | 1.013                       | -                  |        |
| 5720                                                                                              | 144 | 802.11a | OFDM    | 20              | 18.0                        | 17.98                 | -0.04            | 0 mm                                                        | 2               | 1360M                | 6                | back  | 98.7           | 1.512                 | 0.268     | 1.005                  | 1.013                       | 0.273              |        |
| 5720                                                                                              | 144 | 802.11a | OFDM    | 20              | 18.0                        | 17.98                 | 0.00             | 0 mm                                                        | 2               | 1360M                | 6                | front | 98.7           | 3.042                 | -         | 1.005                  | 1.013                       | -                  |        |
| 5720                                                                                              | 144 | 802.11a | OFDM    | 20              | 18.0                        | 17.98                 | -0.03            | 0 mm                                                        | 2               | 1360M                | 6                | top   | 98.7           | 10.844                | 0.635     | 1.005                  | 1.013                       | 0.646              |        |
| 5785                                                                                              | 157 | 802.11a | OFDM    | 20              | 18.0                        | 17.97                 | -0.04            | 0 mm                                                        | 1               | 1360M                | 6                | back  | 98.8           | 5.604                 | 0.675     | 1.007                  | 1.013                       | 0.689              |        |
| 5785                                                                                              | 157 | 802.11a | OFDM    | 20              | 18.0                        | 17.97                 | -0.02            | 0 mm                                                        | 1               | 1360M                | 6                | front | 98.8           | 4.588                 | 0.571     | 1.007                  | 1.013                       | 0.582              |        |
| 5785                                                                                              | 157 | 802.11a | OFDM    | 20              | 18.0                        | 17.97                 | 0.04             | 0 mm                                                        | 1               | 1360M                | 6                | top   | 98.8           | 2.786                 | -         | 1.007                  | 1.013                       | -                  |        |
| 5785                                                                                              | 157 | 802.11a | OFDM    | 20              | 18.0                        | 17.97                 | 0.09             | 0 mm                                                        | 1               | 1360M                | 6                | right | 98.8           | 0.814                 | -         | 1.007                  | 1.013                       | -                  |        |
| 5785                                                                                              | 157 | 802.11a | OFDM    | 20              | 18.0                        | 17.86                 | 0.07             | 0 mm                                                        | 2               | 1360M                | 6                | back  | 98.7           | 1.349                 | 0.235     | 1.033                  | 1.013                       | 0.246              |        |
| 5785                                                                                              | 157 | 802.11a | OFDM    | 20              | 18.0                        | 17.86                 | 0.02             | 0 mm                                                        | 2               | 1360M                | 6                | front | 98.7           | 2.307                 | -         | 1.033                  | 1.013                       | -                  |        |
| 5785                                                                                              | 157 | 802.11a | OFDM    | 20              | 18.0                        | 17.86                 | -0.18            | 0 mm                                                        | 2               | 1360M                | 6                | top   | 98.7           | 9.326                 | 0.555     | 1.033                  | 1.013                       | 0.581              |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |     |         |         |                 |                             |                       |                  | UMPC Extremity<br>4.0 W/kg (mW/g)<br>averaged over 10 grams |                 |                      |                  |       |                |                       |           |                        |                             |                    |        |

**Table 11-79**  
**NII MIMO UMPC Extremity 10g SAR Data for Conditions with 2.4 GHz and 5 GHz WLAN SAR**

| MEASUREMENT RESULTS                      |     |          |         |                 |                                     |                               |                                     |                               |                  |                        |                 |                      |                  |       |                |                       |           |                        |                             |                    |        |
|------------------------------------------|-----|----------|---------|-----------------|-------------------------------------|-------------------------------|-------------------------------------|-------------------------------|------------------|------------------------|-----------------|----------------------|------------------|-------|----------------|-----------------------|-----------|------------------------|-----------------------------|--------------------|--------|
| FREQUENCY                                |     | Mode     | Service | Bandwidth [MHz] | Maximum Allowed Power (Ant 1) [dBm] | Conducted Power (Ant 1) [dBm] | Maximum Allowed Power (Ant 2) [dBm] | Conducted Power (Ant 2) [dBm] | Power Drift [dB] | Spacing                | Antenna Config. | Device Serial Number | Data Rate (Mbps) | Side  | Duty Cycle (%) | Peak SAR of Area Scan | SAR (10g) | Scaling Factor (Power) | Scaling Factor (Duty Cycle) | Reported SAR (10g) | Plot # |
| MHz                                      | Ch. |          |         |                 |                                     |                               |                                     |                               |                  |                        |                 |                      |                  |       |                | W/kg                  | (W/kg)    |                        |                             | (W/kg)             |        |
| 5310                                     | 62  | 802.11n  | OFDM    | 40              | 14.0                                | 13.87                         | 14.0                                | 13.94                         | -0.09            | 0 mm                   | MIMO            | 1360M                | 27               | back  | 97.3           | 2.020                 | 0.366     | 1.030                  | 1.028                       | 0.388              |        |
| 5310                                     | 62  | 802.11n  | OFDM    | 40              | 14.0                                | 13.87                         | 14.0                                | 13.94                         | -0.06            | 0 mm                   | MIMO            | 1360M                | 27               | front | 97.3           | 2.286                 | 0.210     | 1.030                  | 1.028                       | 0.222              |        |
| 5310                                     | 62  | 802.11n  | OFDM    | 40              | 14.0                                | 13.87                         | 14.0                                | 13.94                         | 0.08             | 0 mm                   | MIMO            | 1360M                | 27               | top   | 97.3           | 4.522                 | 0.378     | 1.030                  | 1.028                       | 0.400              |        |
| 5310                                     | 62  | 802.11n  | OFDM    | 40              | 14.0                                | 13.87                         | 14.0                                | 13.94                         | 0.09             | 0 mm                   | MIMO            | 1360M                | 27               | right | 97.3           | 0.613                 | -         | 1.030                  | 1.028                       | -                  |        |
| 5530                                     | 106 | 802.11ac | OFDM    | 80              | 14.0                                | 12.86                         | 14.0                                | 12.80                         | 0.11             | 0 mm                   | MIMO            | 1360M                | 58.5             | back  | 90.7           | 2.273                 | 0.341     | 1.318                  | 1.102                       | 0.495              |        |
| 5530                                     | 106 | 802.11ac | OFDM    | 80              | 14.0                                | 12.86                         | 14.0                                | 12.80                         | -0.06            | 0 mm                   | MIMO            | 1360M                | 58.5             | front | 90.7           | 2.473                 | 0.212     | 1.318                  | 1.102                       | 0.308              |        |
| 5530                                     | 106 | 802.11ac | OFDM    | 80              | 14.0                                | 12.86                         | 14.0                                | 12.80                         | 0.05             | 0 mm                   | MIMO            | 1360M                | 58.5             | top   | 90.7           | 4.253                 | 0.402     | 1.318                  | 1.102                       | 0.584              |        |
| 5530                                     | 106 | 802.11ac | OFDM    | 80              | 14.0                                | 12.86                         | 14.0                                | 12.80                         | 0.09             | 0 mm                   | MIMO            | 1360M                | 58.5             | right | 90.7           | 0.376                 | -         | 1.318                  | 1.102                       | -                  |        |
| 5775                                     | 155 | 802.11ac | OFDM    | 80              | 14.0                                | 12.58                         | 14.0                                | 12.85                         | 0.08             | 0 mm                   | MIMO            | 1360M                | 58.5             | back  | 90.7           | 2.265                 | 0.289     | 1.387                  | 1.102                       | 0.442              |        |
| 5775                                     | 155 | 802.11ac | OFDM    | 80              | 14.0                                | 12.58                         | 14.0                                | 12.85                         | 0.05             | 0 mm                   | MIMO            | 1360M                | 58.5             | front | 90.7           | 2.156                 | 0.220     | 1.387                  | 1.102                       | 0.336              |        |
| 5775                                     | 155 | 802.11ac | OFDM    | 80              | 14.0                                | 12.58                         | 14.0                                | 12.85                         | -0.04            | 0 mm                   | MIMO            | 1360M                | 58.5             | top   | 90.7           | 3.879                 | 0.277     | 1.387                  | 1.102                       | 0.423              |        |
| 5775                                     | 155 | 802.11ac | OFDM    | 80              | 14.0                                | 12.58                         | 14.0                                | 12.85                         | 0.06             | 0 mm                   | MIMO            | 1360M                | 58.5             | right | 90.7           | 0.305                 | -         | 1.387                  | 1.102                       | -                  |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT    |     |          |         |                 |                                     |                               |                                     |                               |                  |                        |                 |                      |                  |       |                |                       |           |                        |                             |                    |        |
| Spatial Peak                             |     |          |         |                 |                                     |                               |                                     |                               |                  | UMPC Extremity         |                 |                      |                  |       |                |                       |           |                        |                             |                    |        |
| Uncontrolled Exposure/General Population |     |          |         |                 |                                     |                               |                                     |                               |                  | 4.0 W/kg (mW/g)        |                 |                      |                  |       |                |                       |           |                        |                             |                    |        |
|                                          |     |          |         |                 |                                     |                               |                                     |                               |                  | averaged over 10 grams |                 |                      |                  |       |                |                       |           |                        |                             |                    |        |

NII MIMO was additionally evaluated at the maximum allowed output power during operations with Simultaneous 2.4 GHz and 5 GHz WLAN. 2.4 GHz WIFI was not transmitting during the above evaluations.

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 129 of 176                 |

**Table 11-80**  
**DSS UMPC Extremity 10g SAR Data**

| 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 (10g) | Scaling Factor (Cond Power) | Scaling Factor (Duty Cycle) | Reported SAR (10g) | Plot # |
| MHz                                                                                               | Ch. |           |         |                             |                       |                  |                                                             |                      |                  |       |                | (W/kg)    |                             |                             | (W/kg)             |        |
| 2402                                                                                              | 0   | Bluetooth | FHSS    | 16.5                        | 16.18                 | 0.04             | 0 mm                                                        | 1385M                | 1                | back  | 77.1           | 0.349     | 1.076                       | 1.297                       | 0.487              |        |
| 2402                                                                                              | 0   | Bluetooth | FHSS    | 16.5                        | 16.18                 | 0.05             | 0 mm                                                        | 1385M                | 1                | front | 77.1           | 0.623     | 1.076                       | 1.297                       | 0.869              | A99    |
| 2402                                                                                              | 0   | Bluetooth | FHSS    | 16.5                        | 16.18                 | -0.15            | 0 mm                                                        | 1385M                | 1                | top   | 77.1           | 0.519     | 1.076                       | 1.297                       | 0.724              |        |
| 2402                                                                                              | 0   | Bluetooth | FHSS    | 16.5                        | 16.18                 | -0.03            | 0 mm                                                        | 1385M                | 1                | right | 77.1           | 0.168     | 1.076                       | 1.297                       | 0.234              |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |     |           |         |                             |                       |                  | UMPC Extremity<br>4.0 W/kg (mW/g)<br>averaged over 10 grams |                      |                  |       |                |           |                             |                             |                    |        |

## 11.7 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 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 15 mm was considered because the manufacturer has determined that there will be body-worn accessories available in the marketplace for users to support this separation distance.
- 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 for 1g SAR and 2.0 W/kg for 10g SAR. Repeated SAR measurements are highlighted in the tables above for clarity. Please see Section 13 for variability analysis.
- 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.
- 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 mode does not apply or if wireless router 1g SAR  $> 1.2$  W/kg.
- This device supports dynamic antenna tuning for some bands. Per FCC Guidance, SAR was measured according to the normally required SAR measurement configurations with tuner active. The auto-tune state determined by the device was verified before and after each SAR measurement and is listed in tables above. Please see Section 14 for supplemental data.
- This device utilizes power reduction for some wireless modes and technologies, as outlined in Section 1.3. The maximum output power allowed for each transmitter and exposure condition was evaluated for SAR compliance based on expected use conditions and simultaneous transmission scenarios.
- Unless otherwise noted, when 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds below.
- Additional SAR tests for phablet SAR were evaluated per KDB 616217 Section 6 (See Section 6.9 for more information).

|                                         |                                                                                     |                               |                                                                                       |                                        |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
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| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 130 of 176                        |

- Per FCC KDB Publication 941225 D07v01r02, this device is considered a "UMPC mini-tablet" when it is in open configuration. UMPC body 1g SAR test are required on all surfaces and edges with an antenna  $\leq 25$  mm from that surface or edge at a test separation distance of 10mm. Therefore, to address hand exposure, UMPC extremity 10g SAR tests are required at a test separation distance of 0mm for all measured 1g (10 mm) SAR configurations.

#### GSM Test Notes:

- Body-Worn accessory testing is typically associated with voice operations. Therefore, GSM voice was evaluated for body-worn SAR.
- 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.
- 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.

#### UMTS Notes:

- UMTS mode in 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.
- 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:

- LTE Considerations: 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 8.5.4.
- 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.
- A-MPR was disabled for all SAR tests by setting NS=01 and MCC=001 on the base station simulator. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).
- 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.
- 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.
- 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.

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 131 of 176                 |

- For LTE Band 66, and LTE Band 7, 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.

#### WLAN Notes:

- For held-to-ear, and hotspot, phablet, and UMPC mini-tablet 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.
- Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 2.4 GHz WIFI single transmission chain operations, the highest measured maximum output power channel for DSSS was selected for SAR measurement. SAR for OFDM modes (2.4 GHz 802.11g/n/ax) was not required due to the maximum allowed powers and the highest reported DSSS SAR. See Section 8.6.5 for more information.
- 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 8.6.6 for more information.
- 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.
- 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.
- 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.
- When 10-g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

#### Bluetooth Notes

- 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 9.5 for the time domain plot and calculation for the duty factor of the device.
- Head and hotspot Bluetooth SAR were evaluated for BT BDR tethering applications.

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 132 of 176                 |

## 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.

(\*) 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 condition was used for simultaneous transmission analysis.

Per FCC KDB Publication 648474 D04 Handset SAR v01r01, the devices edges with antennas more than 2.5 cm from edge are not required to be evaluated for SAR ("–").

### 12.3 Head SAR Simultaneous Transmission Analysis: 1g Handset

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

| Exposure Condition | Mode               | 2G/3G/4G SAR (W/kg) | 2.4 GHz WLAN Ant 1 SAR (W/kg) | 2.4 GHz WLAN Ant 2 SAR (W/kg) | $\Sigma$ SAR (W/kg) |       |              |
|--------------------|--------------------|---------------------|-------------------------------|-------------------------------|---------------------|-------|--------------|
|                    |                    | 1                   | 2                             | 3                             | 1+2                 | 1+3   | 1+2+3        |
| Head SAR           | GSM 850            | 0.369               | 0.052                         | 0.093                         | 0.421               | 0.462 | 0.514        |
|                    | GSM 1900           | 0.110               | 0.052                         | 0.093                         | 0.162               | 0.203 | 0.255        |
|                    | UMTS 850           | 0.431               | 0.052                         | 0.093                         | 0.483               | 0.524 | <b>0.576</b> |
|                    | UMTS 1750          | 0.225               | 0.052                         | 0.093                         | 0.277               | 0.318 | 0.370        |
|                    | UMTS 1900          | 0.230               | 0.052                         | 0.093                         | 0.282               | 0.323 | 0.375        |
|                    | LTE Band 71        | 0.202               | 0.052                         | 0.093                         | 0.254               | 0.295 | 0.347        |
|                    | LTE Band 12        | 0.253               | 0.052                         | 0.093                         | 0.305               | 0.346 | 0.398        |
|                    | LTE Band 13        | 0.246               | 0.052                         | 0.093                         | 0.298               | 0.339 | 0.391        |
|                    | LTE Band 14        | 0.259               | 0.052                         | 0.093                         | 0.311               | 0.352 | 0.404        |
|                    | LTE Band 26 (Cell) | 0.383               | 0.052                         | 0.093                         | 0.435               | 0.476 | 0.528        |
|                    | LTE Band 66 (AWS)  | 0.195               | 0.052                         | 0.093                         | 0.247               | 0.288 | 0.340        |
|                    | LTE Band 25 (PCS)  | 0.209               | 0.052                         | 0.093                         | 0.261               | 0.302 | 0.354        |
|                    | LTE Band 30        | 0.218               | 0.052                         | 0.093                         | 0.270               | 0.311 | 0.363        |
|                    | LTE Band 7         | 0.162               | 0.052                         | 0.093                         | 0.214               | 0.255 | 0.307        |
|                    | LTE Band 41        | 0.095               | 0.052                         | 0.093                         | 0.147               | 0.188 | 0.240        |

|                                         |                                                                                     |                               |  |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|--|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |  |                                                                                       | Page 133 of 176                 |

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

| Exposure Condition | Mode               | 2G/3G/4G SAR (W/kg) | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | $\Sigma$ SAR (W/kg) |       |              |
|--------------------|--------------------|---------------------|-----------------------------|-----------------------------|---------------------|-------|--------------|
|                    |                    | 1                   | 2                           | 3                           | 1+2                 | 1+3   | 1+2+3        |
| Head SAR           | GSM 850            | 0.369               | 0.061                       | 0.056                       | 0.430               | 0.425 | 0.486        |
|                    | GSM 1900           | 0.110               | 0.061                       | 0.056                       | 0.171               | 0.166 | 0.227        |
|                    | UMTS 850           | 0.431               | 0.061                       | 0.056                       | 0.492               | 0.487 | <b>0.548</b> |
|                    | UMTS 1750          | 0.225               | 0.061                       | 0.056                       | 0.286               | 0.281 | 0.342        |
|                    | UMTS 1900          | 0.230               | 0.061                       | 0.056                       | 0.291               | 0.286 | 0.347        |
|                    | LTE Band 71        | 0.202               | 0.061                       | 0.056                       | 0.263               | 0.258 | 0.319        |
|                    | LTE Band 12        | 0.253               | 0.061                       | 0.056                       | 0.314               | 0.309 | 0.370        |
|                    | LTE Band 13        | 0.246               | 0.061                       | 0.056                       | 0.307               | 0.302 | 0.363        |
|                    | LTE Band 14        | 0.259               | 0.061                       | 0.056                       | 0.320               | 0.315 | 0.376        |
|                    | LTE Band 26 (Cell) | 0.383               | 0.061                       | 0.056                       | 0.444               | 0.439 | 0.500        |
|                    | LTE Band 66 (AWS)  | 0.195               | 0.061                       | 0.056                       | 0.256               | 0.251 | 0.312        |
|                    | LTE Band 25 (PCS)  | 0.209               | 0.061                       | 0.056                       | 0.270               | 0.265 | 0.326        |
|                    | LTE Band 30        | 0.218               | 0.061                       | 0.056                       | 0.279               | 0.274 | 0.335        |
|                    | LTE Band 7         | 0.162               | 0.061                       | 0.056                       | 0.223               | 0.218 | 0.279        |
|                    | LTE Band 41        | 0.095               | 0.061                       | 0.056                       | 0.156               | 0.151 | 0.212        |

**Table 12-3**  
**Simultaneous Transmission Scenario with 2.4 GHz WLAN MIMO and 5 GHz WLAN MIMO (Held to Ear)**

| Exposure Condition | Mode               | 2G/3G/4G SAR (W/kg) | 2.4 GHz WLAN Ant 1 SAR (W/kg) | 2.4 GHz WLAN Ant 2 SAR (W/kg) | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | $\Sigma$ SAR (W/kg) |
|--------------------|--------------------|---------------------|-------------------------------|-------------------------------|-----------------------------|-----------------------------|---------------------|
|                    |                    | 1                   | 2                             | 3                             | 4                           | 5                           | 1+2+3+4+5           |
| Head SAR           | GSM 850            | 0.369               | 0.052                         | 0.093                         | 0.061                       | 0.056                       | 0.631               |
|                    | GSM 1900           | 0.110               | 0.052                         | 0.093                         | 0.061                       | 0.056                       | 0.372               |
|                    | UMTS 850           | 0.431               | 0.052                         | 0.093                         | 0.061                       | 0.056                       | <b>0.693</b>        |
|                    | UMTS 1750          | 0.225               | 0.052                         | 0.093                         | 0.061                       | 0.056                       | 0.487               |
|                    | UMTS 1900          | 0.230               | 0.052                         | 0.093                         | 0.061                       | 0.056                       | 0.492               |
|                    | LTE Band 71        | 0.202               | 0.052                         | 0.093                         | 0.061                       | 0.056                       | 0.464               |
|                    | LTE Band 12        | 0.253               | 0.052                         | 0.093                         | 0.061                       | 0.056                       | 0.515               |
|                    | LTE Band 13        | 0.246               | 0.052                         | 0.093                         | 0.061                       | 0.056                       | 0.508               |
|                    | LTE Band 14        | 0.259               | 0.052                         | 0.093                         | 0.061                       | 0.056                       | 0.521               |
|                    | LTE Band 26 (Cell) | 0.383               | 0.052                         | 0.093                         | 0.061                       | 0.056                       | 0.645               |
|                    | LTE Band 66 (AWS)  | 0.195               | 0.052                         | 0.093                         | 0.061                       | 0.056                       | 0.457               |
|                    | LTE Band 25 (PCS)  | 0.209               | 0.052                         | 0.093                         | 0.061                       | 0.056                       | 0.471               |
|                    | LTE Band 30        | 0.218               | 0.052                         | 0.093                         | 0.061                       | 0.056                       | 0.480               |
|                    | LTE Band 7         | 0.162               | 0.052                         | 0.093                         | 0.061                       | 0.056                       | 0.424               |
|                    | LTE Band 41        | 0.095               | 0.052                         | 0.093                         | 0.061                       | 0.056                       | 0.357               |

|                                                |                                                                                     |                                      |                                                                                       |                                        |
|------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
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| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                             | <b>DUT Type:</b><br>Portable Handset | Page 134 of 176                                                                       |                                        |

**Table 12-4**  
**Simultaneous Transmission Scenario with Bluetooth and 5GHz WLAN (Held to Ear)**

| Exposure Condition | Mode               | 2G/3G/4G 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                 | 1+2+3 | 1+2+4 | 1+2+3+4      |
| Head SAR           | GSM 850            | 0.369               | 0.077                | 0.061                       | 0.056                       | 0.446               | 0.507 | 0.502 | 0.563        |
|                    | GSM 1900           | 0.110               | 0.077                | 0.061                       | 0.056                       | 0.187               | 0.248 | 0.243 | 0.304        |
|                    | UMTS 850           | 0.431               | 0.077                | 0.061                       | 0.056                       | 0.508               | 0.569 | 0.564 | <b>0.625</b> |
|                    | UMTS 1750          | 0.225               | 0.077                | 0.061                       | 0.056                       | 0.302               | 0.363 | 0.358 | 0.419        |
|                    | UMTS 1900          | 0.230               | 0.077                | 0.061                       | 0.056                       | 0.307               | 0.368 | 0.363 | 0.424        |
|                    | LTE Band 71        | 0.202               | 0.077                | 0.061                       | 0.056                       | 0.279               | 0.340 | 0.335 | 0.396        |
|                    | LTE Band 12        | 0.253               | 0.077                | 0.061                       | 0.056                       | 0.330               | 0.391 | 0.386 | 0.447        |
|                    | LTE Band 13        | 0.246               | 0.077                | 0.061                       | 0.056                       | 0.323               | 0.384 | 0.379 | 0.440        |
|                    | LTE Band 14        | 0.259               | 0.077                | 0.061                       | 0.056                       | 0.336               | 0.397 | 0.392 | 0.453        |
|                    | LTE Band 26 (Cell) | 0.383               | 0.077                | 0.061                       | 0.056                       | 0.460               | 0.521 | 0.516 | 0.577        |
|                    | LTE Band 66 (AWS)  | 0.195               | 0.077                | 0.061                       | 0.056                       | 0.272               | 0.333 | 0.328 | 0.389        |
|                    | LTE Band 25 (PCS)  | 0.209               | 0.077                | 0.061                       | 0.056                       | 0.286               | 0.347 | 0.342 | 0.403        |
|                    | LTE Band 30        | 0.218               | 0.077                | 0.061                       | 0.056                       | 0.295               | 0.356 | 0.351 | 0.412        |
|                    | LTE Band 7         | 0.162               | 0.077                | 0.061                       | 0.056                       | 0.239               | 0.300 | 0.295 | 0.356        |
|                    | LTE Band 41        | 0.095               | 0.077                | 0.061                       | 0.056                       | 0.172               | 0.233 | 0.228 | 0.289        |

## 12.4 Body-Worn Simultaneous Transmission Analysis: 1g Handset

**Table 12-5**  
**Simultaneous Transmission Scenario with 2.4 GHz WLAN (Body-Worn at 1.5 cm)**

| Exposure Condition | Mode               | 2G/3G/4G SAR (W/kg) | 2.4 GHz WLAN Ant 1 SAR (W/kg) | 2.4 GHz WLAN Ant 2 SAR (W/kg) | $\Sigma$ SAR (W/kg) |       |              |
|--------------------|--------------------|---------------------|-------------------------------|-------------------------------|---------------------|-------|--------------|
|                    |                    | 1                   | 2                             | 3                             | 1+2                 | 1+3   | 1+2+3        |
| Body-Worn          | GSM 850            | 0.271               | 0.103                         | 0.091                         | 0.374               | 0.362 | 0.465        |
|                    | GSM 1900           | 0.268               | 0.103                         | 0.091                         | 0.371               | 0.359 | 0.462        |
|                    | UMTS 850           | 0.268               | 0.103                         | 0.091                         | 0.371               | 0.359 | 0.462        |
|                    | UMTS 1750          | 0.694               | 0.103                         | 0.091                         | 0.797               | 0.785 | <b>0.888</b> |
|                    | UMTS 1900          | 0.450               | 0.103                         | 0.091                         | 0.553               | 0.541 | 0.644        |
|                    | LTE Band 71        | 0.343               | 0.103                         | 0.091                         | 0.446               | 0.434 | 0.537        |
|                    | LTE Band 12        | 0.376               | 0.103                         | 0.091                         | 0.479               | 0.467 | 0.570        |
|                    | LTE Band 13        | 0.274               | 0.103                         | 0.091                         | 0.377               | 0.365 | 0.468        |
|                    | LTE Band 14        | 0.284               | 0.103                         | 0.091                         | 0.387               | 0.375 | 0.478        |
|                    | LTE Band 26 (Cell) | 0.197               | 0.103                         | 0.091                         | 0.300               | 0.288 | 0.391        |
|                    | LTE Band 66 (AWS)  | 0.501               | 0.103                         | 0.091                         | 0.604               | 0.592 | 0.695        |
|                    | LTE Band 25 (PCS)  | 0.417               | 0.103                         | 0.091                         | 0.520               | 0.508 | 0.611        |
|                    | LTE Band 30        | 0.371               | 0.103                         | 0.091                         | 0.474               | 0.462 | 0.565        |
|                    | LTE Band 7         | 0.302               | 0.103                         | 0.091                         | 0.405               | 0.393 | 0.496        |
|                    | LTE Band 41        | 0.108               | 0.103                         | 0.091                         | 0.211               | 0.199 | 0.302        |

|                                                |                                                                                                                                   |                                      |                                                                                       |                                        |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
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| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                                                                           | <b>DUT Type:</b><br>Portable Handset | Page 135 of 176                                                                       |                                        |

**Table 12-6**  
**Simultaneous Transmission Scenario with 5 GHz WLAN (Body-Worn at 1.5 cm)**

| Exposure Condition | Mode               | 2G/3G/4G SAR (W/kg) | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | $\Sigma$ SAR (W/kg) |       |              |
|--------------------|--------------------|---------------------|-----------------------------|-----------------------------|---------------------|-------|--------------|
|                    |                    | 1                   | 2                           | 3                           | 1+2                 | 1+3   | 1+2+3        |
| Body-Worn          | GSM 850            | 0.271               | 0.544                       | 0.084                       | 0.815               | 0.355 | 0.899        |
|                    | GSM 1900           | 0.268               | 0.544                       | 0.084                       | 0.812               | 0.352 | 0.896        |
|                    | UMTS 850           | 0.268               | 0.544                       | 0.084                       | 0.812               | 0.352 | 0.896        |
|                    | UMTS 1750          | 0.694               | 0.544                       | 0.084                       | 1.238               | 0.778 | <b>1.322</b> |
|                    | UMTS 1900          | 0.450               | 0.544                       | 0.084                       | 0.994               | 0.534 | 1.078        |
|                    | LTE Band 71        | 0.343               | 0.544                       | 0.084                       | 0.887               | 0.427 | 0.971        |
|                    | LTE Band 12        | 0.376               | 0.544                       | 0.084                       | 0.920               | 0.460 | 1.004        |
|                    | LTE Band 13        | 0.274               | 0.544                       | 0.084                       | 0.818               | 0.358 | 0.902        |
|                    | LTE Band 14        | 0.284               | 0.544                       | 0.084                       | 0.828               | 0.368 | 0.912        |
|                    | LTE Band 26 (Cell) | 0.197               | 0.544                       | 0.084                       | 0.741               | 0.281 | 0.825        |
|                    | LTE Band 66 (AWS)  | 0.501               | 0.544                       | 0.084                       | 1.045               | 0.585 | 1.129        |
|                    | LTE Band 25 (PCS)  | 0.417               | 0.544                       | 0.084                       | 0.961               | 0.501 | 1.045        |
|                    | LTE Band 30        | 0.371               | 0.544                       | 0.084                       | 0.915               | 0.455 | 0.999        |
|                    | LTE Band 7         | 0.302               | 0.544                       | 0.084                       | 0.846               | 0.386 | 0.930        |
|                    | LTE Band 41        | 0.108               | 0.544                       | 0.084                       | 0.652               | 0.192 | 0.736        |

**Table 12-7**  
**Simultaneous Transmission Scenario with 2.4 GHz WLAN MIMO and 5 GHz WLAN MIMO (Body-Worn at 1.5 cm)**

| Exposure Condition | Mode               | 2G/3G/4G SAR (W/kg) | 2.4 GHz WLAN Ant 1 SAR (W/kg) | 2.4 GHz WLAN Ant 2 SAR (W/kg) | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | $\Sigma$ SAR (W/kg) |
|--------------------|--------------------|---------------------|-------------------------------|-------------------------------|-----------------------------|-----------------------------|---------------------|
|                    |                    | 1                   | 2                             | 3                             | 4                           | 5                           | 1+2+3+4+5           |
| Body-Worn          | GSM 850            | 0.271               | 0.103                         | 0.091                         | 0.544                       | 0.084                       | 1.093               |
|                    | GSM 1900           | 0.268               | 0.103                         | 0.091                         | 0.544                       | 0.084                       | 1.090               |
|                    | UMTS 850           | 0.268               | 0.103                         | 0.091                         | 0.544                       | 0.084                       | 1.090               |
|                    | UMTS 1750          | 0.694               | 0.103                         | 0.091                         | 0.544                       | 0.084                       | <b>1.516</b>        |
|                    | UMTS 1900          | 0.450               | 0.103                         | 0.091                         | 0.544                       | 0.084                       | 1.272               |
|                    | LTE Band 71        | 0.343               | 0.103                         | 0.091                         | 0.544                       | 0.084                       | 1.165               |
|                    | LTE Band 12        | 0.376               | 0.103                         | 0.091                         | 0.544                       | 0.084                       | 1.198               |
|                    | LTE Band 13        | 0.274               | 0.103                         | 0.091                         | 0.544                       | 0.084                       | 1.096               |
|                    | LTE Band 14        | 0.284               | 0.103                         | 0.091                         | 0.544                       | 0.084                       | 1.106               |
|                    | LTE Band 26 (Cell) | 0.197               | 0.103                         | 0.091                         | 0.544                       | 0.084                       | 1.019               |
|                    | LTE Band 66 (AWS)  | 0.501               | 0.103                         | 0.091                         | 0.544                       | 0.084                       | 1.323               |
|                    | LTE Band 25 (PCS)  | 0.417               | 0.103                         | 0.091                         | 0.544                       | 0.084                       | 1.239               |
|                    | LTE Band 30        | 0.371               | 0.103                         | 0.091                         | 0.544                       | 0.084                       | 1.193               |
|                    | LTE Band 7         | 0.302               | 0.103                         | 0.091                         | 0.544                       | 0.084                       | 1.124               |
|                    | LTE Band 41        | 0.108               | 0.103                         | 0.091                         | 0.544                       | 0.084                       | 0.930               |

|                                                |                                                                                     |                                      |                                                                                       |                                        |
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| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                             | <b>DUT Type:</b><br>Portable Handset | Page 136 of 176                                                                       |                                        |

**Table 12-8**  
**Simultaneous Transmission Scenario with Bluetooth and 5GHz WLAN (Body-Worn at 1.5 cm)**

| Exposure Condition | Mode               | 2G/3G/4G 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                 | 1+2+3 | 1+2+4 | 1+2+3+4      |
| Body-Worn          | GSM 850            | 0.271               | 0.014                | 0.544                       | 0.084                       | 0.285               | 0.829 | 0.369 | 0.913        |
|                    | GSM 1900           | 0.268               | 0.014                | 0.544                       | 0.084                       | 0.282               | 0.826 | 0.366 | 0.910        |
|                    | UMTS 850           | 0.268               | 0.014                | 0.544                       | 0.084                       | 0.282               | 0.826 | 0.366 | 0.910        |
|                    | UMTS 1750          | 0.694               | 0.014                | 0.544                       | 0.084                       | 0.708               | 1.252 | 0.792 | <b>1.336</b> |
|                    | UMTS 1900          | 0.450               | 0.014                | 0.544                       | 0.084                       | 0.464               | 1.008 | 0.548 | 1.092        |
|                    | LTE Band 71        | 0.343               | 0.014                | 0.544                       | 0.084                       | 0.357               | 0.901 | 0.441 | 0.985        |
|                    | LTE Band 12        | 0.376               | 0.014                | 0.544                       | 0.084                       | 0.390               | 0.934 | 0.474 | 1.018        |
|                    | LTE Band 13        | 0.274               | 0.014                | 0.544                       | 0.084                       | 0.288               | 0.832 | 0.372 | 0.916        |
|                    | LTE Band 14        | 0.284               | 0.014                | 0.544                       | 0.084                       | 0.298               | 0.842 | 0.382 | 0.926        |
|                    | LTE Band 26 (Cell) | 0.197               | 0.014                | 0.544                       | 0.084                       | 0.211               | 0.755 | 0.295 | 0.839        |
|                    | LTE Band 66 (AWS)  | 0.501               | 0.014                | 0.544                       | 0.084                       | 0.515               | 1.059 | 0.599 | 1.143        |
|                    | LTE Band 25 (PCS)  | 0.417               | 0.014                | 0.544                       | 0.084                       | 0.431               | 0.975 | 0.515 | 1.059        |
|                    | LTE Band 30        | 0.371               | 0.014                | 0.544                       | 0.084                       | 0.385               | 0.929 | 0.469 | 1.013        |
|                    | LTE Band 7         | 0.302               | 0.014                | 0.544                       | 0.084                       | 0.316               | 0.860 | 0.400 | 0.944        |
|                    | LTE Band 41        | 0.108               | 0.014                | 0.544                       | 0.084                       | 0.122               | 0.666 | 0.206 | 0.750        |

## 12.5 Hotspot SAR Simultaneous Transmission Analysis: 1g Handset

**Table 12-9**  
**Simultaneous Transmission Scenario with 2.4 GHz WLAN (Hotspot at 1.0 cm)**

| Exposure Condition | Mode               | 2G/3G/4G SAR (W/kg) | 2.4 GHz WLAN Ant 1 SAR (W/kg) | 2.4 GHz WLAN Ant 2 SAR (W/kg) | $\Sigma$ SAR (W/kg) |       |              |
|--------------------|--------------------|---------------------|-------------------------------|-------------------------------|---------------------|-------|--------------|
|                    |                    | 1                   | 2                             | 3                             | 1+2                 | 1+3   | 1+2+3        |
| Hotspot SAR        | GPRS 850           | 0.502               | 0.233                         | 0.310                         | 0.735               | 0.812 | 1.045        |
|                    | GPRS 1900          | 0.731               | 0.233                         | 0.310                         | 0.964               | 1.041 | 1.274        |
|                    | UMTS 850           | 0.516               | 0.233                         | 0.310                         | 0.749               | 0.826 | 1.059        |
|                    | UMTS 1750          | 0.861               | 0.233                         | 0.310                         | 1.094               | 1.171 | 1.404        |
|                    | UMTS 1900          | 1.033               | 0.233                         | 0.310                         | 1.266               | 1.343 | <b>1.576</b> |
|                    | LTE Band 71        | 0.713               | 0.233                         | 0.310                         | 0.946               | 1.023 | 1.256        |
|                    | LTE Band 12        | 0.928               | 0.233                         | 0.310                         | 1.161               | 1.238 | 1.471        |
|                    | LTE Band 13        | 0.585               | 0.233                         | 0.310                         | 0.818               | 0.895 | 1.128        |
|                    | LTE Band 14        | 0.572               | 0.233                         | 0.310                         | 0.805               | 0.882 | 1.115        |
|                    | LTE Band 26 (Cell) | 0.643               | 0.233                         | 0.310                         | 0.876               | 0.953 | 1.186        |
|                    | LTE Band 66 (AWS)  | 0.870               | 0.233                         | 0.310                         | 1.103               | 1.180 | 1.413        |
|                    | LTE Band 25 (PCS)  | 0.906               | 0.233                         | 0.310                         | 1.139               | 1.216 | 1.449        |
|                    | LTE Band 30        | 0.783               | 0.233                         | 0.310                         | 1.016               | 1.093 | 1.326        |
|                    | LTE Band 7         | 0.908               | 0.233                         | 0.310                         | 1.141               | 1.218 | 1.451        |
|                    | LTE Band 41        | 0.839               | 0.233                         | 0.310                         | 1.072               | 1.149 | 1.382        |

|                                                |                                                                                                                                   |                                      |                                                                                       |                                        |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
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| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                                                                           | <b>DUT Type:</b><br>Portable Handset | Page 137 of 176                                                                       |                                        |

**Table 12-10**  
**Simultaneous Transmission Scenario with 5 GHz WLAN (Hotspot at 1.0 cm)**

| Exposure Condition | Mode               | 2G/3G/4G SAR (W/kg) | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | $\Sigma$ SAR (W/kg) |       |              |
|--------------------|--------------------|---------------------|-----------------------------|-----------------------------|---------------------|-------|--------------|
|                    |                    | 1                   | 2                           | 3                           | 1+2                 | 1+3   | 1+2+3        |
| Hotspot SAR        | GPRS 850           | 0.502               | 0.182                       | 0.103                       | 0.684               | 0.605 | 0.787        |
|                    | GPRS 1900          | 0.731               | 0.182                       | 0.103                       | 0.913               | 0.834 | 1.016        |
|                    | UMTS 850           | 0.516               | 0.182                       | 0.103                       | 0.698               | 0.619 | 0.801        |
|                    | UMTS 1750          | 0.861               | 0.182                       | 0.103                       | 1.043               | 0.964 | 1.146        |
|                    | UMTS 1900          | 1.033               | 0.182                       | 0.103                       | 1.215               | 1.136 | <b>1.318</b> |
|                    | LTE Band 71        | 0.713               | 0.182                       | 0.103                       | 0.895               | 0.816 | 0.998        |
|                    | LTE Band 12        | 0.928               | 0.182                       | 0.103                       | 1.110               | 1.031 | 1.213        |
|                    | LTE Band 13        | 0.585               | 0.182                       | 0.103                       | 0.767               | 0.688 | 0.870        |
|                    | LTE Band 14        | 0.572               | 0.182                       | 0.103                       | 0.754               | 0.675 | 0.857        |
|                    | LTE Band 26 (Cell) | 0.643               | 0.182                       | 0.103                       | 0.825               | 0.746 | 0.928        |
|                    | LTE Band 66 (AWS)  | 0.870               | 0.182                       | 0.103                       | 1.052               | 0.973 | 1.155        |
|                    | LTE Band 25 (PCS)  | 0.906               | 0.182                       | 0.103                       | 1.088               | 1.009 | 1.191        |
|                    | LTE Band 30        | 0.783               | 0.182                       | 0.103                       | 0.965               | 0.886 | 1.068        |
|                    | LTE Band 7         | 0.908               | 0.182                       | 0.103                       | 1.090               | 1.011 | 1.193        |
|                    | LTE Band 41        | 0.839               | 0.182                       | 0.103                       | 1.021               | 0.942 | 1.124        |

**Table 12-11**  
**Simultaneous Transmission Scenario with 2.4 GHz WLAN MIMO and 5 GHz WLAN MIMO (Hotspot at 1.0 cm)**

| Exposure Condition | Mode               | 2G/3G/4G SAR (W/kg) | 2.4 GHz WLAN Ant 1 SAR (W/kg) | 2.4 GHz WLAN Ant 2 SAR (W/kg) | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | $\Sigma$ SAR (W/kg) |
|--------------------|--------------------|---------------------|-------------------------------|-------------------------------|-----------------------------|-----------------------------|---------------------|
|                    |                    | 1                   | 2                             | 3                             | 4                           | 5                           | 1+2+3+4+5           |
| Hotspot SAR        | GPRS 850           | 0.502               | 0.233                         | 0.310                         | 0.182                       | 0.103                       | 1.330               |
|                    | GPRS 1900          | 0.731               | 0.233                         | 0.310                         | 0.182                       | 0.103                       | <b>1.559</b>        |
|                    | UMTS 850           | 0.516               | 0.233                         | 0.310                         | 0.182                       | 0.103                       | 1.344               |
|                    | UMTS 1750          | 0.861               | 0.233                         | 0.310                         | 0.182                       | 0.103                       | See Table Below     |
|                    | UMTS 1900          | 1.033               | 0.233                         | 0.310                         | 0.182                       | 0.103                       | See Table Below     |
|                    | LTE Band 71        | 0.713               | 0.233                         | 0.310                         | 0.182                       | 0.103                       | 1.541               |
|                    | LTE Band 12        | 0.928               | 0.233                         | 0.310                         | 0.182                       | 0.103                       | See Table Below     |
|                    | LTE Band 13        | 0.585               | 0.233                         | 0.310                         | 0.182                       | 0.103                       | 1.413               |
|                    | LTE Band 14        | 0.572               | 0.233                         | 0.310                         | 0.182                       | 0.103                       | 1.400               |
|                    | LTE Band 26 (Cell) | 0.643               | 0.233                         | 0.310                         | 0.182                       | 0.103                       | 1.471               |
|                    | LTE Band 66 (AWS)  | 0.870               | 0.233                         | 0.310                         | 0.182                       | 0.103                       | See Table Below     |
|                    | LTE Band 25 (PCS)  | 0.906               | 0.233                         | 0.310                         | 0.182                       | 0.103                       | See Table Below     |
|                    | LTE Band 30        | 0.783               | 0.233                         | 0.310                         | 0.182                       | 0.103                       | See Table Below     |
|                    | LTE Band 7         | 0.908               | 0.233                         | 0.310                         | 0.182                       | 0.103                       | See Table Below     |
|                    | LTE Band 41        | 0.839               | 0.233                         | 0.310                         | 0.182                       | 0.103                       | See Table Below     |

|                                                |                                                                                     |                                      |                                                                                       |                                        |
|------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMF900F                             |  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                             | <b>DUT Type:</b><br>Portable Handset | Page 138 of 176                                                                       |                                        |

| Simult Tx   | Configuration | UMTS 1750 SAR (W/kg)         | 2.4 GHz WLAN Ant 1 SAR (W/kg) | 2.4 GHz WLAN Ant 2 SAR (W/kg) | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | Σ SAR (W/kg) | Simult Tx   | Configuration | UMTS 1900 SAR (W/kg)         | 2.4 GHz WLAN Ant 1 SAR (W/kg) | 2.4 GHz WLAN Ant 2 SAR (W/kg) | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | Σ SAR (W/kg) |
|-------------|---------------|------------------------------|-------------------------------|-------------------------------|-----------------------------|-----------------------------|--------------|-------------|---------------|------------------------------|-------------------------------|-------------------------------|-----------------------------|-----------------------------|--------------|
|             |               | 1                            | 2                             | 3                             | 4                           | 5                           | 1+2+3+4+5    |             |               | 1                            | 2                             | 3                             | 4                           | 5                           | 1+2+3+4+5    |
| Hotspot SAR | Back          | 0.417                        | 0.233*                        | 0.310                         | 0.182                       | 0.103*                      | 1.245        | Hotspot SAR | Back          | 0.432                        | 0.233*                        | 0.310                         | 0.182                       | 0.103*                      | 1.260        |
|             | Front         | 0.179                        | 0.233*                        | 0.310*                        | 0.182*                      | 0.103*                      | 1.007        |             | Front         | 0.217                        | 0.233*                        | 0.310*                        | 0.182*                      | 0.103*                      | 1.045        |
|             | Top           | -                            | 0.233                         | 0.310*                        | 0.182*                      | 0.103                       | 0.828        |             | Top           | -                            | 0.233                         | 0.310*                        | 0.182*                      | 0.103                       | 0.828        |
|             | Bottom        | 0.861                        | -                             | -                             | -                           | -                           | 0.861        |             | Bottom        | 1.033                        | -                             | -                             | -                           | -                           | 1.033        |
|             | Right         | 0.126                        | 0.233*                        | -                             | 0.182*                      | -                           | 0.541        |             | Right         | 0.204                        | 0.233*                        | -                             | 0.182*                      | -                           | 0.619        |
|             | Left          | 0.109                        | -                             | 0.310*                        | -                           | 0.103*                      | 0.522        |             | Left          | 0.134                        | -                             | 0.310*                        | -                           | 0.103*                      | 0.547        |
| Simult Tx   | Configuration | LTE Band 12 SAR (W/kg)       | 2.4 GHz WLAN Ant 1 SAR (W/kg) | 2.4 GHz WLAN Ant 2 SAR (W/kg) | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | Σ SAR (W/kg) | Simult Tx   | Configuration | LTE Band 66 (AWS) SAR (W/kg) | 2.4 GHz WLAN Ant 1 SAR (W/kg) | 2.4 GHz WLAN Ant 2 SAR (W/kg) | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | Σ SAR (W/kg) |
|             |               | 1                            | 2                             | 3                             | 4                           | 5                           | 1+2+3+4+5    |             |               | 1                            | 2                             | 3                             | 4                           | 5                           | 1+2+3+4+5    |
| Hotspot SAR | Back          | 0.386                        | 0.233*                        | 0.310                         | 0.182                       | 0.103*                      | 1.214        | Hotspot SAR | Back          | 0.329                        | 0.233*                        | 0.310                         | 0.182                       | 0.103*                      | 1.157        |
|             | Front         | 0.346                        | 0.233*                        | 0.310*                        | 0.182*                      | 0.103*                      | 1.174        |             | Front         | 0.188                        | 0.233*                        | 0.310*                        | 0.182*                      | 0.103*                      | 1.016        |
|             | Top           | -                            | 0.233                         | 0.310*                        | 0.182*                      | 0.103                       | 0.828        |             | Top           | -                            | 0.233                         | 0.310*                        | 0.182*                      | 0.103                       | 0.828        |
|             | Bottom        | 0.270                        | -                             | -                             | -                           | -                           | 0.270        |             | Bottom        | 0.870                        | -                             | -                             | -                           | -                           | 0.870        |
|             | Right         | 0.928                        | 0.233*                        | -                             | 0.182*                      | -                           | 1.343        |             | Right         | 0.116                        | 0.233*                        | -                             | 0.182*                      | -                           | 0.531        |
|             | Left          | -                            | -                             | 0.310*                        | -                           | 0.103*                      | 0.413        |             | Left          | 0.089                        | -                             | 0.310*                        | -                           | 0.103*                      | 0.502        |
| 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) | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | Σ SAR (W/kg) | Simult Tx   | Configuration | LTE Band 30 SAR (W/kg)       | 2.4 GHz WLAN Ant 1 SAR (W/kg) | 2.4 GHz WLAN Ant 2 SAR (W/kg) | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | Σ SAR (W/kg) |
|             |               | 1                            | 2                             | 3                             | 4                           | 5                           | 1+2+3+4+5    |             |               | 1                            | 2                             | 3                             | 4                           | 5                           | 1+2+3+4+5    |
| Hotspot SAR | Back          | 0.316                        | 0.233*                        | 0.310                         | 0.182                       | 0.103*                      | 1.144        | Hotspot SAR | Back          | 0.317                        | 0.233*                        | 0.310                         | 0.182                       | 0.103*                      | 1.145        |
|             | Front         | 0.187                        | 0.233*                        | 0.310*                        | 0.182*                      | 0.103*                      | 1.015        |             | Front         | 0.325                        | 0.233*                        | 0.310*                        | 0.182*                      | 0.103*                      | 1.153        |
|             | Top           | -                            | 0.233                         | 0.310*                        | 0.182*                      | 0.103                       | 0.828        |             | Top           | -                            | 0.233                         | 0.310*                        | 0.182*                      | 0.103                       | 0.828        |
|             | Bottom        | 0.906                        | -                             | -                             | -                           | -                           | 0.906        |             | Bottom        | 0.783                        | -                             | -                             | -                           | -                           | 0.783        |
|             | Right         | 0.153                        | 0.233*                        | -                             | 0.182*                      | -                           | 0.568        |             | Right         | 0.047                        | 0.233*                        | -                             | 0.182*                      | -                           | 0.462        |
|             | Left          | 0.093                        | -                             | 0.310*                        | -                           | 0.103*                      | 0.506        |             | Left          | 0.059                        | -                             | 0.310*                        | -                           | 0.103*                      | 0.472        |
| Simult Tx   | Configuration | LTE Band 7 SAR (W/kg)        | 2.4 GHz WLAN Ant 1 SAR (W/kg) | 2.4 GHz WLAN Ant 2 SAR (W/kg) | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | Σ SAR (W/kg) | Simult Tx   | Configuration | LTE Band 41 SAR (W/kg)       | 2.4 GHz WLAN Ant 1 SAR (W/kg) | 2.4 GHz WLAN Ant 2 SAR (W/kg) | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | Σ SAR (W/kg) |
|             |               | 1                            | 2                             | 3                             | 4                           | 5                           | 1+2+3+4+5    |             |               | 1                            | 2                             | 3                             | 4                           | 5                           | 1+2+3+4+5    |
| Hotspot SAR | Back          | 0.178                        | 0.233*                        | 0.310                         | 0.182                       | 0.103*                      | 1.006        | Hotspot SAR | Back          | 0.158                        | 0.233*                        | 0.310                         | 0.182                       | 0.103*                      | 0.986        |
|             | Front         | 0.350                        | 0.233*                        | 0.310*                        | 0.182*                      | 0.103*                      | 1.178        |             | Front         | 0.216                        | 0.233*                        | 0.310*                        | 0.182*                      | 0.103*                      | 1.044        |
|             | Top           | -                            | 0.233                         | 0.310*                        | 0.182*                      | 0.103                       | 0.828        |             | Top           | -                            | 0.233                         | 0.310*                        | 0.182*                      | 0.103                       | 0.828        |
|             | Bottom        | 0.908                        | -                             | -                             | -                           | -                           | 0.908        |             | Bottom        | 0.839                        | -                             | -                             | -                           | -                           | 0.839        |
|             | Right         | 0.067                        | 0.233*                        | -                             | 0.182*                      | -                           | 0.482        |             | Right         | 0.088                        | 0.233*                        | -                             | 0.182*                      | -                           | 0.503        |
|             | Left          | 0.083                        | -                             | 0.310*                        | -                           | 0.103*                      | 0.496        |             | Left          | 0.061                        | -                             | 0.310*                        | -                           | 0.103*                      | 0.474        |

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

| Exposure Condition | Mode               | 2G/3G/4G 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          | 1+2+3 | 1+2+4 | 1+2+3+4 |
| Hotspot SAR        | GPRS 850           | 0.502               | 0.038                | 0.182                       | 0.103                       | 0.540        | 0.722 | 0.787 | 0.825   |
|                    | GPRS 1900          | 0.731               | 0.038                | 0.182                       | 0.103                       | 0.769        | 0.951 | 1.016 | 1.054   |
|                    | UMTS 850           | 0.516               | 0.038                | 0.182                       | 0.103                       | 0.554        | 0.736 | 0.801 | 0.839   |
|                    | UMTS 1750          | 0.861               | 0.038                | 0.182                       | 0.103                       | 0.899        | 1.081 | 1.146 | 1.184   |
|                    | UMTS 1900          | 1.033               | 0.038                | 0.182                       | 0.103                       | 1.071        | 1.253 | 1.318 | 1.356   |
|                    | LTE Band 71        | 0.713               | 0.038                | 0.182                       | 0.103                       | 0.751        | 0.933 | 0.998 | 1.036   |
|                    | LTE Band 12        | 0.928               | 0.038                | 0.182                       | 0.103                       | 0.966        | 1.148 | 1.213 | 1.251   |
|                    | LTE Band 13        | 0.585               | 0.038                | 0.182                       | 0.103                       | 0.623        | 0.805 | 0.870 | 0.908   |
|                    | LTE Band 14        | 0.572               | 0.038                | 0.182                       | 0.103                       | 0.610        | 0.792 | 0.857 | 0.895   |
|                    | LTE Band 26 (Cell) | 0.643               | 0.038                | 0.182                       | 0.103                       | 0.681        | 0.863 | 0.928 | 0.966   |
|                    | LTE Band 66 (AWS)  | 0.870               | 0.038                | 0.182                       | 0.103                       | 0.908        | 1.090 | 1.155 | 1.193   |
|                    | LTE Band 25 (PCS)  | 0.906               | 0.038                | 0.182                       | 0.103                       | 0.944        | 1.126 | 1.191 | 1.229   |
|                    | LTE Band 30        | 0.783               | 0.038                | 0.182                       | 0.103                       | 0.821        | 1.003 | 1.068 | 1.106   |
|                    | LTE Band 7         | 0.908               | 0.038                | 0.182                       | 0.103                       | 0.946        | 1.128 | 1.193 | 1.231   |
|                    | LTE Band 41        | 0.839               | 0.038                | 0.182                       | 0.103                       | 0.877        | 1.059 | 1.124 | 1.162   |

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 139 of 176                 |

## 12.6 Phablet Simultaneous Transmission Analysis: 10g Handset

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 12-13**  
**Simultaneous Transmission Scenario with 5 GHz WLAN (Phablet)**

| Exposure Condition | Mode              | 2G/3G/4G SAR (W/kg) | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | $\Sigma$ SAR (W/kg) |       |                 |
|--------------------|-------------------|---------------------|-----------------------------|-----------------------------|---------------------|-------|-----------------|
|                    |                   | 1                   | 2                           | 3                           | 1+2                 | 1+3   | 1+2+3           |
| Phablet SAR        | GPRS 1900         | 2.631               | 0.777                       | 0.765                       | 3.408               | 3.396 | See Table Below |
|                    | UMTS 1750         | 2.548               | 0.777                       | 0.765                       | 3.325               | 3.313 | See Table Below |
|                    | UMTS 1900         | 3.076               | 0.777                       | 0.765                       | <b>3.853</b>        | 3.841 | See Table Below |
|                    | LTE Band 66 (AWS) | 2.739               | 0.777                       | 0.765                       | 3.516               | 3.504 | See Table Below |
|                    | LTE Band 25 (PCS) | 3.016               | 0.777                       | 0.765                       | 3.793               | 3.781 | See Table Below |
|                    | LTE Band 30       | 2.827               | 0.777                       | 0.765                       | 3.604               | 3.592 | See Table Below |
|                    | LTE Band 7        | 1.998               | 0.777                       | 0.765                       | 2.775               | 2.763 | 3.540           |
|                    | LTE Band 41       | 2.636               | 0.777                       | 0.765                       | 3.413               | 3.401 | See Table Below |

| Simult Tx   | Configuration | GPRS 1900 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 | UMTS 1750 SAR (W/kg)         | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | $\Sigma$ SAR (W/kg) |
|-------------|---------------|----------------------|-----------------------------|-----------------------------|---------------------|-------------|---------------|------------------------------|-----------------------------|-----------------------------|---------------------|
|             |               | 1                    | 2                           | 3                           | 1+2+3               |             |               | 1                            | 2                           | 3                           | 1+2+3               |
| Phablet SAR | Back          | 1.558                | 0.777                       | 0.217                       | 2.552               | Phablet SAR | Back          | 1.162                        | 0.777                       | 0.217                       | 2.156               |
|             | Front         | 1.046                | 0.777*                      | 0.765*                      | 2.588               |             | Front         | 1.317                        | 0.777*                      | 0.765*                      | <b>2.859</b>        |
|             | Top           | -                    | 0.777*                      | 0.765                       | 1.542               |             | Top           | -                            | 0.777*                      | 0.765                       | 1.542               |
|             | Bottom        | 2.631                | -                           | -                           | <b>2.631</b>        |             | Bottom        | 2.548                        | -                           | -                           | 2.548               |
|             | Right         | 0.729                | 0.777*                      | -                           | 1.506               |             | Right         | 0.982                        | 0.777*                      | -                           | 1.759               |
|             | Left          | 0.300                | -                           | 0.765*                      | 1.065               |             | Left          | 0.433                        | -                           | 0.765*                      | 1.198               |
| Simult Tx   | Configuration | UMTS 1900 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 66 (AWS) SAR (W/kg) | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | $\Sigma$ SAR (W/kg) |
|             |               | 1                    | 2                           | 3                           | 1+2+3               |             |               | 1                            | 2                           | 3                           | 1+2+3               |
| Phablet SAR | Back          | 1.585                | 0.777                       | 0.217                       | 2.579               | Phablet SAR | Back          | 1.144                        | 0.777                       | 0.217                       | 2.138               |
|             | Front         | 1.199                | 0.777*                      | 0.765*                      | 2.741               |             | Front         | 1.274                        | 0.777*                      | 0.765*                      | <b>2.816</b>        |
|             | Top           | -                    | 0.777*                      | 0.765                       | 1.542               |             | Top           | -                            | 0.777*                      | 0.765                       | 1.542               |
|             | Bottom        | 3.076                | -                           | -                           | <b>3.076</b>        |             | Bottom        | 2.739                        | -                           | -                           | 2.739               |
|             | Right         | 0.768                | 0.777*                      | -                           | 1.545               |             | Right         | 0.934                        | 0.777*                      | -                           | 1.711               |
|             | Left          | 0.336                | -                           | 0.765*                      | 1.101               |             | Left          | 0.467                        | -                           | 0.765*                      | 1.232               |

|                                                |                                                                                                                                   |                                      |                                                                                       |                                        |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
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| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                                                                           | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 140 of 176                        |

| 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 | LTE Band 30 SAR (W/kg) | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | Σ SAR (W/kg) |
|-------------|---------------|------------------------------|-----------------------------|-----------------------------|--------------|-------------|---------------|------------------------|-----------------------------|-----------------------------|--------------|
|             |               | 1                            | 2                           | 3                           | 1+2+3        |             |               | 1                      | 2                           | 3                           | 1+2+3        |
| Phablet SAR | Back          | 1.572                        | 0.777                       | 0.217                       | 2.566        | Phablet SAR | Back          | 1.023                  | 0.777                       | 0.217                       | 2.017        |
|             | Front         | 1.292                        | 0.777*                      | 0.765*                      | 2.834        |             | Front         | 1.914                  | 0.777*                      | 0.765*                      | 3.456        |
|             | Top           | -                            | 0.777*                      | 0.765                       | 1.542        |             | Top           | -                      | 0.777*                      | 0.765                       | 1.542        |
|             | Bottom        | 3.016                        | -                           | -                           | 3.016        |             | Bottom        | 2.827                  | -                           | -                           | 2.827        |
|             | Right         | 0.760                        | 0.777*                      | -                           | 1.537        |             | Right         | 0.449                  | 0.777*                      | -                           | 1.226        |
|             | Left          | 0.411                        | -                           | 0.765*                      | 1.176        |             | Left          | 0.436                  | -                           | 0.765*                      | 1.201        |

| 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+3        |
| Phablet SAR | Back          | 0.636                  | 0.777                       | 0.217                       | 1.630        |
|             | Front         | 1.300                  | 0.777*                      | 0.765*                      | 2.842        |
|             | Top           | -                      | 0.777*                      | 0.765                       | 1.542        |
|             | Bottom        | 2.636                  | -                           | -                           | 2.636        |
|             | Right         | 0.567                  | 0.777*                      | -                           | 1.344        |
|             | Left          | 0.295                  | -                           | 0.765*                      | 1.060        |

## 12.7 Body Simultaneous Transmission Analysis: 1g UMPC Body

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 12-14**

### Simultaneous Transmission Scenario with 2.4 GHz WLAN (UMPC Body)

| Exposure Condition | Mode               | 2G/3G/4G 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             |
| UMPC Body SAR 1g   | GPRS 850           | 0.784               | 0.497                         | 0.208                         | 1.281           | 0.992           |
|                    | GPRS 1900          | 1.130               | 0.497                         | 0.208                         | See Table Below | 1.338           |
|                    | UMTS 850           | 0.426               | 0.497                         | 0.208                         | 0.923           | 0.634           |
|                    | UMTS 1750          | 0.788               | 0.497                         | 0.208                         | 1.285           | 0.996           |
|                    | UMTS 1900          | 1.384               | 0.497                         | 0.208                         | See Table Below | 1.592           |
|                    | LTE Band 71        | 0.425               | 0.497                         | 0.208                         | 0.922           | 0.633           |
|                    | LTE Band 12        | 0.521               | 0.497                         | 0.208                         | 1.018           | 0.729           |
|                    | LTE Band 13        | 0.696               | 0.497                         | 0.208                         | 1.193           | 0.904           |
|                    | LTE Band 14        | 0.665               | 0.497                         | 0.208                         | 1.162           | 0.873           |
|                    | LTE Band 26 (Cell) | 0.458               | 0.497                         | 0.208                         | 0.955           | 0.666           |
|                    | LTE Band 66 (AWS)  | 0.861               | 0.497                         | 0.208                         | 1.358           | 1.069           |
|                    | LTE Band 25 (PCS)  | 1.240               | 0.497                         | 0.208                         | See Table Below | 1.448           |
|                    | LTE Band 30        | 1.165               | 0.497                         | 0.208                         | See Table Below | 1.373           |
|                    | LTE Band 7         | 1.398               | 0.497                         | 0.208                         | See Table Below | See Table Below |
|                    | LTE Band 41        | 1.110               | 0.497                         | 0.208                         | See Table Below | 1.318           |

|                                                |                                                                                                                                   |                                      |  |                                                                                       |                                        |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMF900F                             |  <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | <b>SAR EVALUATION REPORT</b>         |  |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                                                                           | <b>DUT Type:</b><br>Portable Handset |  | Page 141 of 176                                                                       |                                        |

| Simult Tx        | Configuration | GPRS 1900 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   |
| UMPC Body SAR 1g | Back          | 0.873                        | 0.390                         | 0.208                         | 1.263        | 1.081 |
|                  | Front         | 0.663                        | 0.421                         | 0.208*                        | 1.084        | 0.871 |
|                  | Top           | -                            | 0.497                         | 0.208*                        | 0.497        | 0.208 |
|                  | Bottom        | 1.130                        | -                             | -                             | 1.130        | 1.130 |
|                  | Right         | 0.238                        | 0.497*                        | -                             | 0.735        | 0.238 |
| 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) | Σ SAR (W/kg) |       |
|                  |               | 1                            | 2                             | 3                             | 1+2          | 1+3   |
| UMPC Body SAR 1g | Back          | 0.649                        | 0.390                         | 0.208                         | 1.039        | 0.857 |
|                  | Front         | 0.707                        | 0.421                         | 0.208*                        | 1.128        | 0.915 |
|                  | Top           | -                            | 0.497                         | 0.208*                        | 0.497        | 0.208 |
|                  | Bottom        | 1.240                        | -                             | -                             | 1.240        | 1.240 |
|                  | Right         | 0.209                        | 0.497*                        | -                             | 0.706        | 0.209 |
| Simult Tx        | Configuration | UMTS 1900 SAR (W/kg)         | 2.4 GHz WLAN Ant 1 SAR (W/kg) | 2.4 GHz WLAN Ant 2 SAR (W/kg) | Σ SAR (W/kg) |       |
|                  |               | 1                            | 2                             | 3                             | 1+2          | 1+3   |
| UMPC Body SAR 1g | Back          | 0.908                        | 0.390                         | 0.208                         | 1.298        | 1.116 |
|                  | Front         | 0.744                        | 0.421                         | 0.208*                        | 1.165        | 0.952 |
|                  | Top           | -                            | 0.497                         | 0.208*                        | 0.497        | 0.208 |
|                  | Bottom        | 1.384                        | -                             | -                             | 1.384        | 1.384 |
|                  | Right         | 0.283                        | 0.497*                        | -                             | 0.780        | 0.283 |
| Simult Tx        | Configuration | LTE Band 30 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   |
| UMPC Body SAR 1g | Back          | 0.953                        | 0.390                         | 0.208                         | 1.343        | 1.161 |
|                  | Front         | 0.895                        | 0.421                         | 0.208*                        | 1.316        | 1.103 |
|                  | Top           | -                            | 0.497                         | 0.208*                        | 0.497        | 0.208 |
|                  | Bottom        | 1.165                        | -                             | -                             | 1.165        | 1.165 |
|                  | Right         | 0.250                        | 0.497*                        | -                             | 0.747        | 0.250 |

| Simult Tx        | Configuration | LTE Band 7 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) |       | SPLSR |
|------------------|---------------|------------------------|-------------------------------|-------------------------------|--------------|-------|-------|
|                  |               | 1                      | 2                             | 3                             | 1+2          | 1+3   |       |
| UMPC Body SAR 1g | Back          | 1.081                  | 0.390                         | 0.208                         | 1.471        | 1.289 | N/A   |
|                  | Front         | 1.198                  | 0.421                         | 0.208*                        | See Note 1   | 1.406 | 0.01  |
|                  | Top           | -                      | 0.497                         | 0.208*                        | 0.497        | 0.208 | N/A   |
|                  | Bottom        | 1.398                  | -                             | -                             | 1.398        | 1.398 | N/A   |
|                  | Right         | 0.458                  | 0.497*                        | -                             | 0.955        | 0.458 | N/A   |
| Simult Tx        | Configuration | LTE Band 41 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   |       |
| UMPC Body SAR 1g | Back          | 0.932                  | 0.390                         | 0.208                         | 1.322        | 1.140 |       |
|                  | Front         | 0.913                  | 0.421                         | 0.208*                        | 1.334        | 1.121 |       |
|                  | Top           | -                      | 0.497                         | 0.208*                        | 0.497        | 0.208 |       |
|                  | Bottom        | 1.110                  | -                             | -                             | 1.110        | 1.110 |       |
|                  | Right         | 0.442                  | 0.497*                        | -                             | 0.939        | 0.442 |       |

| Exposure Condition | Mode               | 2G/3G/4G SAR (W/kg) | 2.4 GHz WLAN MIMO at 20 dBm SAR (W/kg) | Σ SAR (W/kg)    |
|--------------------|--------------------|---------------------|----------------------------------------|-----------------|
|                    |                    | 1                   | 2                                      | 1+2             |
| UMPC Body SAR 1g   | GPRS 850           | 0.784               | 0.427                                  | 1.211           |
|                    | GPRS 1900          | 1.130               | 0.427                                  | 1.557           |
|                    | UMTS 850           | 0.426               | 0.427                                  | 0.853           |
|                    | UMTS 1750          | 0.788               | 0.427                                  | 1.215           |
|                    | UMTS 1900          | 1.384               | 0.427                                  | See Table Below |
|                    | LTE Band 71        | 0.425               | 0.427                                  | 0.852           |
|                    | LTE Band 12        | 0.521               | 0.427                                  | 0.948           |
|                    | LTE Band 13        | 0.696               | 0.427                                  | 1.123           |
|                    | LTE Band 14        | 0.665               | 0.427                                  | 1.092           |
|                    | LTE Band 26 (Cell) | 0.458               | 0.427                                  | 0.885           |
|                    | LTE Band 66 (AWS)  | 0.861               | 0.427                                  | 1.288           |
|                    | LTE Band 25 (PCS)  | 1.240               | 0.427                                  | See Table Below |
|                    | LTE Band 30        | 1.165               | 0.427                                  | 1.592           |
|                    | LTE Band 7         | 1.398               | 0.427                                  | See Table Below |
|                    | LTE Band 41        | 1.110               | 0.427                                  | 1.537           |

| Simult Tx        | Configuration | UMTS 1900 SAR (W/kg)         | 2.4 GHz WLAN MIMO at 20 dBm SAR (W/kg) | Σ SAR (W/kg) |
|------------------|---------------|------------------------------|----------------------------------------|--------------|
|                  |               | 1                            | 2                                      | 1+2          |
| UMPC Body SAR 1g | Back          | 0.908                        | 0.308                                  | 1.216        |
|                  | Front         | 0.744                        | 0.312                                  | 1.056        |
|                  | Top           | -                            | 0.427                                  | 0.427        |
|                  | Bottom        | 1.384                        | -                                      | 1.384        |
|                  | Right         | 0.283                        | 0.427*                                 | 0.710        |
| Simult Tx        | Configuration | LTE Band 25 (PCS) SAR (W/kg) | 2.4 GHz WLAN MIMO at 20 dBm SAR (W/kg) | Σ SAR (W/kg) |
|                  |               | 1                            | 2                                      | 1+2          |
| UMPC Body SAR 1g | Back          | 0.649                        | 0.308                                  | 0.957        |
|                  | Front         | 0.707                        | 0.312                                  | 1.019        |
|                  | Top           | -                            | 0.427                                  | 0.427        |
|                  | Bottom        | 1.240                        | -                                      | 1.240        |
|                  | Right         | 0.209                        | 0.427*                                 | 0.636        |
| Simult Tx        | Configuration | LTE Band 7 SAR (W/kg)        | 2.4 GHz WLAN MIMO at 20 dBm SAR (W/kg) | Σ SAR (W/kg) |
|                  |               | 1                            | 2                                      | 1+2          |
| UMPC Body SAR 1g | Back          | 1.081                        | 0.308                                  | 1.389        |
|                  | Front         | 1.198                        | 0.312                                  | 1.510        |
|                  | Top           | -                            | 0.427                                  | 0.427        |
|                  | Bottom        | 1.398                        | -                                      | 1.398        |
|                  | Right         | 0.458                        | 0.427*                                 | 0.885        |

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset | Page 142 of 176                                                                       |                                 |

**Table 12-15**  
**Simultaneous Transmission Scenario with 5 GHz WLAN (UMPC Body)**

| Exposure Condition | Mode               | 2G/3G/4G SAR (W/kg) | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | $\Sigma$ SAR (W/kg) |                 |
|--------------------|--------------------|---------------------|-----------------------------|-----------------------------|---------------------|-----------------|
|                    |                    | 1                   | 2                           | 3                           | 1+2                 | 1+3             |
| UMPC Body SAR 1g   | GPRS 850           | 0.784               | 0.742                       | 0.225                       | 1.526               | 1.009           |
|                    | GPRS 1900          | 1.130               | 0.742                       | 0.225                       | See Table Below     | 1.355           |
|                    | UMTS 850           | 0.426               | 0.742                       | 0.225                       | 1.168               | 0.651           |
|                    | UMTS 1750          | 0.788               | 0.742                       | 0.225                       | <b>1.530</b>        | 1.013           |
|                    | UMTS 1900          | 1.384               | 0.742                       | 0.225                       | See Table Below     | See Table Below |
|                    | LTE Band 71        | 0.425               | 0.742                       | 0.225                       | 1.167               | 0.650           |
|                    | LTE Band 12        | 0.521               | 0.742                       | 0.225                       | 1.263               | 0.746           |
|                    | LTE Band 13        | 0.696               | 0.742                       | 0.225                       | 1.438               | 0.921           |
|                    | LTE Band 14        | 0.665               | 0.742                       | 0.225                       | 1.407               | 0.890           |
|                    | LTE Band 26 (Cell) | 0.458               | 0.742                       | 0.225                       | 1.200               | 0.683           |
|                    | LTE Band 66 (AWS)  | 0.861               | 0.742                       | 0.225                       | See Table Below     | 1.086           |
|                    | LTE Band 25 (PCS)  | 1.240               | 0.742                       | 0.225                       | See Table Below     | 1.465           |
|                    | LTE Band 30        | 1.165               | 0.742                       | 0.225                       | See Table Below     | 1.390           |
|                    | LTE Band 7         | 1.398               | 0.742                       | 0.225                       | See Table Below     | See Table Below |
|                    | LTE Band 41        | 1.110               | 0.742                       | 0.225                       | See Table Below     | 1.335           |

| Simult Tx        | Configuration | GPRS 1900 SAR (W/kg) | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | $\Sigma$ SAR (W/kg) |              | SPLSR | Simult Tx        | Configuration | UMTS 1900 SAR (W/kg) | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | $\Sigma$ SAR (W/kg) |              | SPLSR |
|------------------|---------------|----------------------|-----------------------------|-----------------------------|---------------------|--------------|-------|------------------|---------------|----------------------|-----------------------------|-----------------------------|---------------------|--------------|-------|
|                  |               | 1                    | 2                           | 3                           | 1+2                 | 1+3          |       |                  |               | 1                    | 2                           | 3                           | 1+2                 | 1+3          |       |
| UMPC Body SAR 1g | Back          | 0.873                | 0.742                       | 0.103                       | See Note 1          | 0.976        | 0.01  | UMPC Body SAR 1g | Back          | 0.908                | 0.742                       | 0.103                       | See Note 1          | 1.011        | 0.01  |
|                  | Front         | 0.663                | 0.172                       | 0.225*                      | 0.835               | 0.888        | N/A   |                  | Front         | 0.744                | 0.172                       | 0.225*                      | 0.916               | 0.969        | N/A   |
|                  | Top           | -                    | 0.167                       | 0.225                       | 0.167               | 0.225        | N/A   |                  | Top           | -                    | 0.167                       | 0.225                       | 0.167               | 0.225        | N/A   |
|                  | Bottom        | 1.130                | -                           | -                           | <b>1.130</b>        | <b>1.130</b> | N/A   |                  | Bottom        | 1.384                | -                           | -                           | <b>1.384</b>        | <b>1.384</b> | N/A   |
|                  | Right         | 0.238                | 0.742*                      | -                           | 0.980               | 0.238        | N/A   |                  | Right         | 0.283                | 0.742*                      | -                           | 1.025               | 0.283        | N/A   |

| Simult Tx        | Configuration | LTE Band 66 (AWS) SAR (W/kg) | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | Σ SAR (W/kg) |       | 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) |       |
|------------------|---------------|------------------------------|-----------------------------|-----------------------------|--------------|-------|------------------|---------------|------------------------------|-----------------------------|-----------------------------|--------------|-------|
|                  |               | 1                            | 2                           | 3                           | 1+2          | 1+3   |                  |               | 1                            | 2                           | 3                           | 1+2          | 1+3   |
| UMPC Body SAR 1g | Back          | 0.767                        | 0.742                       | 0.103                       | 1.509        | 0.870 | UMPC Body SAR 1g | Back          | 0.649                        | 0.742                       | 0.103                       | 1.391        | 0.752 |
|                  | Front         | 0.612                        | 0.172                       | 0.225*                      | 0.784        | 0.837 |                  | Front         | 0.707                        | 0.172                       | 0.225*                      | 0.879        | 0.932 |
|                  | Top           | -                            | 0.167                       | 0.225                       | 0.167        | 0.225 |                  | Top           | -                            | 0.167                       | 0.225                       | 0.167        | 0.225 |
|                  | Bottom        | 0.861                        | -                           | -                           | 0.861        | 0.861 |                  | Bottom        | 1.240                        | -                           | -                           | 1.240        | 1.240 |
|                  | Right         | 0.298                        | 0.742*                      | -                           | 1.040        | 0.298 |                  | Right         | 0.209                        | 0.742*                      | -                           | 0.951        | 0.209 |

| Simult Tx        | Configuration | LTE Band 30 SAR (W/kg) | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | $\Sigma$ SAR (W/kg) |              | SPLSR | Simult Tx        | Configuration | LTE Band 7 SAR (W/kg) | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | $\Sigma$ SAR (W/kg) |              | SPLSR |
|------------------|---------------|------------------------|-----------------------------|-----------------------------|---------------------|--------------|-------|------------------|---------------|-----------------------|-----------------------------|-----------------------------|---------------------|--------------|-------|
|                  |               | 1                      | 2                           | 3                           | 1+2                 | 1+3          |       |                  |               | 1                     | 2                           | 3                           | 1+2                 | 1+3          |       |
| UMPC Body SAR 1g | Back          | 0.953                  | 0.742                       | 0.103                       | See Note 1          | 1.056        | 0.01  | UMPC Body SAR 1g | Back          | 1.081                 | 0.742                       | 0.103                       | See Note 1          | 1.184        | 0.02  |
|                  | Front         | 0.895                  | 0.172                       | 0.225*                      | 1.067               | 1.120        | N/A   |                  | Front         | 1.198                 | 0.172                       | 0.225*                      | 1.370               | <b>1.423</b> | N/A   |
|                  | Top           | -                      | 0.167                       | 0.225                       | 0.167               | 0.225        | N/A   |                  | Top           | -                     | 0.167                       | 0.225                       | 0.167               | 0.225        | N/A   |
|                  | Bottom        | 1.165                  | -                           | -                           | <b>1.165</b>        | <b>1.165</b> | N/A   |                  | Bottom        | 1.398                 | -                           | -                           | 1.398               | 1.398        | N/A   |
|                  | Right         | 0.250                  | 0.742*                      | -                           | 0.992               | 0.250        | N/A   |                  | Right         | 0.458                 | 0.742*                      | -                           | 1.200               | 0.458        | 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) | $\Sigma$ SAR (W/kg) |       | SPLSR |
|------------------|---------------|------------------------|-----------------------------|-----------------------------|---------------------|-------|-------|
|                  |               | 1                      | 2                           | 3                           | 1+2                 | 1+3   |       |
| UMPC Body SAR 1g | Back          | 0.932                  | 0.742                       | 0.103                       | See Note 1          | 1.035 | 0.01  |
|                  | Front         | 0.913                  | 0.172                       | 0.225*                      | 1.085               | 1.138 | N/A   |
|                  | Top           | -                      | 0.167                       | 0.225                       | 0.167               | 0.225 | N/A   |
|                  | Bottom        | 1.110                  | -                           | -                           | 1.110               | 1.110 | N/A   |
|                  | Right         | 0.442                  | 0.742*                      | -                           | <b>1.184</b>        | 0.442 | N/A   |

|                                                |                                                                                     |                                      |                                                                                       |                                        |
|------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMF900F                             |  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                             | <b>DUT Type:</b><br>Portable Handset | Page 143 of 176                                                                       |                                        |

| Exposure Condition | Mode               | 2G/3G/4G SAR (W/kg) | 5 GHz WLAN MIMO at 20 dBm SAR (W/kg) | Σ SAR (W/kg)    |
|--------------------|--------------------|---------------------|--------------------------------------|-----------------|
|                    |                    | 1                   | 2                                    | 1+2             |
| UMPC Body SAR 1g   | GPRS 850           | 0.784               | 0.670                                | 1.454           |
|                    | GPRS 1900          | 1.130               | 0.670                                | See Table Below |
|                    | UMTS 850           | 0.426               | 0.670                                | 1.096           |
|                    | UMTS 1750          | 0.788               | 0.670                                | 1.458           |
|                    | UMTS 1900          | 1.384               | 0.670                                | See Table Below |
|                    | LTE Band 71        | 0.425               | 0.670                                | 1.095           |
|                    | LTE Band 12        | 0.521               | 0.670                                | 1.191           |
|                    | LTE Band 13        | 0.696               | 0.670                                | 1.366           |
|                    | LTE Band 14        | 0.665               | 0.670                                | 1.335           |
|                    | LTE Band 26 (Cell) | 0.458               | 0.670                                | 1.128           |
|                    | LTE Band 66 (AWS)  | 0.861               | 0.670                                | 1.531           |
|                    | LTE Band 25 (PCS)  | 1.240               | 0.670                                | See Table Below |
|                    | LTE Band 30        | 1.165               | 0.670                                | See Table Below |
|                    | LTE Band 7         | 1.398               | 0.670                                | See Table Below |
|                    | LTE Band 41        | 1.110               | 0.670                                | See Table Below |

| Simult Tx        | Configuration | GPRS 1900 SAR (W/kg) | 5 GHz WLAN MIMO at 20 dBm SAR (W/kg) | Σ SAR (W/kg) | Simult Tx        | Configuration | UMTS 1900 SAR (W/kg) | 5 GHz WLAN MIMO at 20 dBm SAR (W/kg) | Σ SAR (W/kg) | Simult Tx        | Configuration | LTE Band 25 (PCS) SAR (W/kg) | 5 GHz WLAN MIMO at 20 dBm SAR (W/kg) | Σ SAR (W/kg) |
|------------------|---------------|----------------------|--------------------------------------|--------------|------------------|---------------|----------------------|--------------------------------------|--------------|------------------|---------------|------------------------------|--------------------------------------|--------------|
|                  |               | 1                    | 2                                    | 1+2          |                  |               | 1                    | 2                                    | 1+2          |                  |               | 1                            | 2                                    | 1+2          |
| UMPC Body SAR 1g | Back          | 0.873                | 0.670                                | 1.543        | UMPC Body SAR 1g | Back          | 0.908                | 0.670                                | 1.578        | UMPC Body SAR 1g | Back          | 0.649                        | 0.670                                | 1.319        |
|                  | Front         | 0.663                | 0.217                                | 0.880        |                  | Front         | 0.744                | 0.217                                | 0.961        |                  | Front         | 0.707                        | 0.217                                | 0.924        |
|                  | Top           | -                    | 0.350                                | 0.350        |                  | Top           | -                    | 0.350                                | 0.350        |                  | Top           | -                            | 0.350                                | 0.350        |
|                  | Bottom        | 1.130                | -                                    | 1.130        |                  | Bottom        | 1.384                | -                                    | 1.384        |                  | Bottom        | 1.240                        | -                                    | 1.240        |
|                  | Right         | 0.238                | 0.670*                               | 0.908        |                  | Right         | 0.283                | 0.670*                               | 0.953        |                  | Right         | 0.209                        | 0.670*                               | 0.879        |

| Simult Tx        | Configuration | LTE Band 30 SAR (W/kg) | 5 GHz WLAN MIMO at 20 dBm SAR (W/kg) | Σ SAR (W/kg) | SPLSR | Simult Tx        | Configuration | LTE Band 7 SAR (W/kg) | 5 GHz WLAN MIMO at 20 dBm SAR (W/kg) | Σ SAR (W/kg) | SPLSR |
|------------------|---------------|------------------------|--------------------------------------|--------------|-------|------------------|---------------|-----------------------|--------------------------------------|--------------|-------|
|                  |               | 1                      | 2                                    | 1+2          | 1+2   |                  |               | 1                     | 2                                    | 1+2          | 1+2   |
| UMPC Body SAR 1g | Back          | 0.953                  | 0.670                                | See Note 1   | 0.01  | UMPC Body SAR 1g | Back          | 1.081                 | 0.670                                | See Note 1   | 0.01  |
|                  | Front         | 0.895                  | 0.217                                | 1.112        | N/A   |                  | Front         | 1.198                 | 0.217                                | 1.415        | N/A   |
|                  | Top           | -                      | 0.350                                | 0.350        | N/A   |                  | Top           | -                     | 0.350                                | 0.350        | N/A   |
|                  | Bottom        | 1.165                  | -                                    | 1.165        | N/A   |                  | Bottom        | 1.398                 | -                                    | 1.398        | N/A   |
|                  | Right         | 0.250                  | 0.670*                               | 0.920        | N/A   |                  | Right         | 0.458                 | 0.670*                               | 1.128        | N/A   |

| Simult Tx        | Configuration | LTE Band 41 SAR (W/kg) | 5 GHz WLAN MIMO at 20 dBm SAR (W/kg) | Σ SAR (W/kg) | SPLSR |
|------------------|---------------|------------------------|--------------------------------------|--------------|-------|
|                  |               | 1                      | 2                                    | 1+2          | 1+2   |
| UMPC Body SAR 1g | Back          | 0.932                  | 0.670                                | See Note 1   | 0.01  |
|                  | Front         | 0.913                  | 0.217                                | 1.130        | N/A   |
|                  | Top           | -                      | 0.350                                | 0.350        | N/A   |
|                  | Bottom        | 1.110                  | -                                    | 1.110        | N/A   |
|                  | Right         | 0.442                  | 0.670*                               | 1.112        | N/A   |

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 144 of 176                 |

**Table 12-16**

**Simultaneous Transmission Scenario with 2.4 GHz WLAN MIMO and 5 GHz WLAN MIMO (UMPC Body)**

| Exposure Condition | Mode               | 2G/3G/4G SAR (W/kg) | 2.4 GHz WLAN MIMO at 19 dBm SAR (W/kg) | 5 GHz WLAN MIMO at 16 dBm SAR (W/kg) | Σ SAR (W/kg)    |
|--------------------|--------------------|---------------------|----------------------------------------|--------------------------------------|-----------------|
|                    |                    | 1                   | 2                                      | 3                                    | 1+2+3           |
| UMPC Body SAR 1g   | GPRS 850           | 0.784               | 0.283                                  | 0.273                                | 1.340           |
|                    | GPRS 1900          | 1.130               | 0.283                                  | 0.273                                | See Table Below |
|                    | UMTS 850           | 0.426               | 0.283                                  | 0.273                                | 0.982           |
|                    | UMTS 1750          | 0.788               | 0.283                                  | 0.273                                | 1.344           |
|                    | UMTS 1900          | 1.384               | 0.283                                  | 0.273                                | See Table Below |
|                    | LTE Band 71        | 0.425               | 0.283                                  | 0.273                                | 0.981           |
|                    | LTE Band 12        | 0.521               | 0.283                                  | 0.273                                | 1.077           |
|                    | LTE Band 13        | 0.696               | 0.283                                  | 0.273                                | 1.252           |
|                    | LTE Band 14        | 0.665               | 0.283                                  | 0.273                                | 1.221           |
|                    | LTE Band 26 (Cell) | 0.458               | 0.283                                  | 0.273                                | 1.014           |
|                    | LTE Band 66 (AWS)  | 0.861               | 0.283                                  | 0.273                                | <b>1.417</b>    |
|                    | LTE Band 25 (PCS)  | 1.240               | 0.283                                  | 0.273                                | See Table Below |
|                    | LTE Band 30        | 1.165               | 0.283                                  | 0.273                                | See Table Below |
|                    | LTE Band 7         | 1.398               | 0.283                                  | 0.273                                | See Table Below |
|                    | LTE Band 41        | 1.110               | 0.283                                  | 0.273                                | See Table Below |

| Simult Tx        | Configuration | GPRS 1900 SAR (W/kg)         | 2.4 GHz WLAN MIMO at 19 dBm SAR (W/kg) | 5 GHz WLAN MIMO at 16 dBm SAR (W/kg) | Σ SAR (W/kg) | Simult Tx        | Configuration | UMTS 1900 SAR (W/kg)   | 2.4 GHz WLAN MIMO at 19 dBm SAR (W/kg) | 5 GHz WLAN MIMO at 16 dBm SAR (W/kg) | Σ SAR (W/kg) |
|------------------|---------------|------------------------------|----------------------------------------|--------------------------------------|--------------|------------------|---------------|------------------------|----------------------------------------|--------------------------------------|--------------|
|                  |               | 1                            | 2                                      | 3                                    | 1+3+4        |                  |               | 1                      | 2                                      | 3                                    | 1+3+4        |
| UMPC Body SAR 1g | Back          | 0.873                        | 0.230                                  | 0.273                                | <b>1.376</b> | UMPC Body SAR 1g | Back          | 0.908                  | 0.230                                  | 0.273                                | <b>1.411</b> |
|                  | Front         | 0.663                        | 0.228                                  | 0.083                                | 0.974        |                  | Front         | 0.744                  | 0.228                                  | 0.083                                | 1.055        |
|                  | Top           | -                            | 0.283                                  | 0.115                                | 0.398        |                  | Top           | -                      | 0.283                                  | 0.115                                | 0.398        |
|                  | Bottom        | 1.130                        | -                                      | -                                    | 1.130        |                  | Bottom        | 1.384                  | -                                      | -                                    | 1.384        |
|                  | Right         | 0.238                        | 0.283*                                 | 0.273*                               | 0.794        |                  | Right         | 0.283                  | 0.283*                                 | 0.273*                               | 0.839        |
| Simult Tx        | Configuration | LTE Band 25 (PCS) SAR (W/kg) | 2.4 GHz WLAN MIMO at 19 dBm SAR (W/kg) | 5 GHz WLAN MIMO at 16 dBm SAR (W/kg) | Σ SAR (W/kg) | Simult Tx        | Configuration | LTE Band 30 SAR (W/kg) | 2.4 GHz WLAN MIMO at 19 dBm SAR (W/kg) | 5 GHz WLAN MIMO at 16 dBm SAR (W/kg) | Σ SAR (W/kg) |
|                  |               | 1                            | 2                                      | 3                                    | 1+3+4        |                  |               | 1                      | 2                                      | 3                                    | 1+3+4        |
|                  | Back          | 0.649                        | 0.230                                  | 0.273                                | 1.152        |                  | Back          | 0.953                  | 0.230                                  | 0.273                                | <b>1.456</b> |
|                  | Front         | 0.707                        | 0.228                                  | 0.083                                | 1.018        |                  | Front         | 0.895                  | 0.228                                  | 0.083                                | 1.206        |
|                  | Top           | -                            | 0.283                                  | 0.115                                | 0.398        |                  | Top           | -                      | 0.283                                  | 0.115                                | 0.398        |
| UMPC Body SAR 1g | Bottom        | 1.240                        | -                                      | -                                    | <b>1.240</b> | UMPC Body SAR 1g | Bottom        | 1.165                  | -                                      | -                                    | 1.165        |
|                  | Right         | 0.209                        | 0.283*                                 | 0.273*                               | 0.765        |                  | Right         | 0.250                  | 0.283*                                 | 0.273*                               | 0.806        |
| Simult Tx        | Configuration | LTE Band 7 SAR (W/kg)        | 2.4 GHz WLAN MIMO at 19 dBm SAR (W/kg) | 5 GHz WLAN MIMO at 16 dBm SAR (W/kg) | Σ SAR (W/kg) | Simult Tx        | Configuration | LTE Band 41 SAR (W/kg) | 2.4 GHz WLAN MIMO at 19 dBm SAR (W/kg) | 5 GHz WLAN MIMO at 16 dBm SAR (W/kg) | Σ SAR (W/kg) |
|                  |               | 1                            | 2                                      | 3                                    | 1+3+4        |                  |               | 1                      | 2                                      | 3                                    | 1+3+4        |
|                  | Back          | 1.081                        | 0.230                                  | 0.273                                | <b>1.584</b> |                  | Back          | 0.932                  | 0.230                                  | 0.273                                | <b>1.435</b> |
|                  | Front         | 1.198                        | 0.228                                  | 0.083                                | 1.509        |                  | Front         | 0.913                  | 0.228                                  | 0.083                                | 1.224        |
|                  | Top           | -                            | 0.283                                  | 0.115                                | 0.398        |                  | Top           | -                      | 0.283                                  | 0.115                                | 0.398        |
| UMPC Body SAR 1g | Bottom        | 1.398                        | -                                      | -                                    | 1.398        | UMPC Body SAR 1g | Bottom        | 1.110                  | -                                      | -                                    | 1.110        |
|                  | Right         | 0.458                        | 0.283*                                 | 0.273*                               | 1.014        |                  | Right         | 0.442                  | 0.283*                                 | 0.273*                               | 0.998        |

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 145 of 176                 |

**Table 12-17**  
**Simultaneous Transmission Scenario with Bluetooth and 5GHz WLAN (UMPC Body)**

| Exposure Condition | Mode               | 2G/3G/4G 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                 | 1+2+3           | 1+2+4           |
| UMPC Body SAR 1g   | GPRS 850           | 0.784               | 0.140                | 0.742                       | 0.225                       | 0.924               | See Table Below | 1.149           |
|                    | GPRS 1900          | 1.130               | 0.140                | 0.742                       | 0.225                       | 1.270               | See Table Below | 1.495           |
|                    | UMTS 850           | 0.426               | 0.140                | 0.742                       | 0.225                       | 0.566               | 1.308           | 0.791           |
|                    | UMTS 1750          | 0.788               | 0.140                | 0.742                       | 0.225                       | 0.928               | See Table Below | 1.153           |
|                    | UMTS 1900          | 1.384               | 0.140                | 0.742                       | 0.225                       | 1.524               | See Table Below | See Table Below |
|                    | LTE Band 71        | 0.425               | 0.140                | 0.742                       | 0.225                       | 0.565               | 1.307           | 0.790           |
|                    | LTE Band 12        | 0.521               | 0.140                | 0.742                       | 0.225                       | 0.661               | 1.403           | 0.886           |
|                    | LTE Band 13        | 0.696               | 0.140                | 0.742                       | 0.225                       | 0.836               | <b>1.578</b>    | 1.061           |
|                    | LTE Band 14        | 0.665               | 0.140                | 0.742                       | 0.225                       | 0.805               | 1.547           | 1.030           |
|                    | LTE Band 26 (Cell) | 0.458               | 0.140                | 0.742                       | 0.225                       | 0.598               | 1.340           | 0.823           |
|                    | LTE Band 66 (AWS)  | 0.861               | 0.140                | 0.742                       | 0.225                       | 1.001               | See Table Below | 1.226           |
|                    | LTE Band 25 (PCS)  | 1.240               | 0.140                | 0.742                       | 0.225                       | 1.380               | See Table Below | See Table Below |
|                    | LTE Band 30        | 1.165               | 0.140                | 0.742                       | 0.225                       | 1.305               | See Table Below | 1.530           |
|                    | LTE Band 7         | 1.398               | 0.140                | 0.742                       | 0.225                       | See Table Below     | See Table Below | See Table Below |
|                    | LTE Band 41        | 1.110               | 0.140                | 0.742                       | 0.225                       | 1.250               | See Table Below | 1.475           |

| Simult Tx        | Configuration | GPRS 850 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) |              |              | SPLSR |      |      |
|------------------|---------------|----------------------|----------------------|-----------------------------|-----------------------------|---------------------|--------------|--------------|-------|------|------|
|                  |               | 1                    | 2                    | 3                           | 4                           | 1+2                 | 1+2+3        | 1+2+4        | 1+2   | 1+3  | 2+3  |
| UMPC Body SAR 1g | Back          | 0.784                | 0.084                | 0.742                       | 0.103                       | 0.868               | See note 1   | 0.971        | 0.01  | 0.01 | 0.02 |
|                  | Front         | 0.542                | 0.096                | 0.172                       | 0.225*                      | 0.638               | 0.810        | 0.863        | N/A   | N/A  | N/A  |
|                  | Top           | -                    | 0.140                | 0.167                       | 0.225                       | 0.140               | 0.307        | 0.365        | N/A   | N/A  | N/A  |
|                  | Bottom        | 0.380                | -                    | -                           | -                           | 0.380               | 0.380        | 0.380        | N/A   | N/A  | N/A  |
|                  | Right         | 0.379                | 0.077                | 0.742*                      | -                           | 0.456               | <b>1.198</b> | 0.456        | N/A   | N/A  | N/A  |
|                  |               |                      |                      |                             |                             |                     |              |              |       |      |      |
| 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) |              |              | SPLSR |      |      |
|                  |               | 1                    | 2                    | 3                           | 4                           | 1+2                 | 1+2+3        | 1+2+4        | 1+2   | 1+3  | 2+3  |
| UMPC Body SAR 1g | Back          | 0.873                | 0.084                | 0.742                       | 0.103                       | 0.957               | See note 1   | 1.060        | 0.01  | 0.01 | 0.02 |
|                  | Front         | 0.663                | 0.096                | 0.172                       | 0.225*                      | 0.759               | 0.931        | 0.984        | N/A   | N/A  | N/A  |
|                  | Top           | -                    | 0.140                | 0.167                       | 0.225                       | 0.140               | 0.307        | 0.365        | N/A   | N/A  | N/A  |
|                  | Bottom        | 1.130                | -                    | -                           | -                           | <b>1.130</b>        | <b>1.130</b> | <b>1.130</b> | N/A   | N/A  | N/A  |
|                  | Right         | 0.238                | 0.077                | 0.742*                      | -                           | 0.315               | 1.057        | 0.315        | N/A   | N/A  | N/A  |
|                  |               |                      |                      |                             |                             |                     |              |              |       |      |      |

| Simult Tx        | Configuration | UMTS 1750 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                 | 1+2+3        | 1+2+4 |
| UMPC Body SAR 1g | Back          | 0.752                | 0.084                | 0.742                       | 0.103                       | 0.836               | <b>1.578</b> | 0.939 |
|                  | Front         | 0.756                | 0.096                | 0.172                       | 0.225*                      | 0.852               | 1.024        | 1.077 |
|                  | Top           | -                    | 0.140                | 0.167                       | 0.225                       | 0.140               | 0.307        | 0.365 |
|                  | Bottom        | 0.788                | -                    | -                           | -                           | 0.788               | 0.788        | 0.788 |
|                  | Right         | 0.352                | 0.077                | 0.742*                      | -                           | 0.429               | 1.171        | 0.429 |
|                  |               |                      |                      |                             |                             |                     |              |       |

| 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) |              |              | SPLSR |      |      |
|------------------|---------------|----------------------|----------------------|-----------------------------|-----------------------------|---------------------|--------------|--------------|-------|------|------|
|                  |               | 1                    | 2                    | 3                           | 4                           | 1+2                 | 1+2+3        | 1+2+4        | 1+2   | 1+3  | 2+3  |
| UMPC Body SAR 1g | Back          | 0.908                | 0.084                | 0.742                       | 0.103                       | 0.992               | See note 1   | 1.095        | 0.01  | 0.01 | 0.02 |
|                  | Front         | 0.744                | 0.096                | 0.172                       | 0.225*                      | 0.840               | 1.012        | 1.065        | N/A   | N/A  | N/A  |
|                  | Top           | -                    | 0.140                | 0.167                       | 0.225                       | 0.140               | 0.307        | 0.365        | N/A   | N/A  | N/A  |
|                  | Bottom        | 1.384                | -                    | -                           | -                           | <b>1.384</b>        | <b>1.384</b> | <b>1.384</b> | N/A   | N/A  | N/A  |
|                  | Right         | 0.283                | 0.077                | 0.742*                      | -                           | 0.360               | 1.102        | 0.360        | N/A   | N/A  | N/A  |
|                  |               |                      |                      |                             |                             |                     |              |              |       |      |      |

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 146 of 176                 |

| Simult Tx        | Configuration | LTE Band 66 (AWS) 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                 | 1+2+3 | 1+2+4 |                  |               | 1                            | 2                    | 3                           | 4                           | 1+2                 | 1+2+3 | 1+2+4 |
| UMPC Body SAR 1g | Back          | 0.767                        | 0.084                | 0.742                       | 0.103                       | 0.851               | 1.593 | 0.954 | UMPC Body SAR 1g | Back          | 0.649                        | 0.084                | 0.742                       | 0.103                       | 0.733               | 1.475 | 0.836 |
|                  | Front         | 0.612                        | 0.096                | 0.172                       | 0.225*                      | 0.708               | 0.880 | 0.933 |                  | Front         | 0.707                        | 0.096                | 0.172                       | 0.225*                      | 0.803               | 0.975 | 1.028 |
|                  | Top           | -                            | 0.140                | 0.167                       | 0.225                       | 0.140               | 0.307 | 0.365 |                  | Top           | -                            | 0.140                | 0.167                       | 0.225                       | 0.140               | 0.307 | 0.365 |
|                  | Bottom        | 0.861                        | -                    | -                           | -                           | 0.861               | 0.861 | 0.861 |                  | Bottom        | 1.240                        | -                    | -                           | -                           | 1.240               | 1.240 | 1.240 |
|                  | Right         | 0.298                        | 0.077                | 0.742*                      | -                           | 0.375               | 1.117 | 0.375 |                  | Right         | 0.209                        | 0.077                | 0.742*                      | -                           | 0.286               | 1.028 | 0.286 |

| 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) | $\Sigma$ SAR (W/kg) |            |       | SPLSR |      |      |
|------------------|---------------|------------------------|----------------------|-----------------------------|-----------------------------|---------------------|------------|-------|-------|------|------|
|                  |               | 1                      | 2                    | 3                           | 4                           | 1+2                 | 1+2+3      | 1+2+4 | 1+2   | 1+3  | 2+3  |
| UMPC Body SAR 1g | Back          | 0.953                  | 0.084                | 0.742                       | 0.103                       | 1.037               | See note 1 | 1.140 | 0.01  | 0.01 | 0.02 |
|                  | Front         | 0.895                  | 0.096                | 0.172                       | 0.225*                      | 0.991               | 1.163      | 1.216 | N/A   | N/A  | N/A  |
|                  | Top           | -                      | 0.140                | 0.167                       | 0.225                       | 0.140               | 0.307      | 0.365 | N/A   | N/A  | N/A  |
|                  | Bottom        | 1.165                  | -                    | -                           | -                           | 1.165               | 1.165      | 1.165 | N/A   | N/A  | N/A  |
|                  | Right         | 0.250                  | 0.077                | 0.742*                      | -                           | 0.327               | 1.069      | 0.327 | N/A   | N/A  | N/A  |
| Simult Tx        | Configuration | LTE Band 7 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) |            |       | SPLSR |      |      |
|                  |               | 1                      | 2                    | 3                           | 4                           | 1+2                 | 1+2+3      | 1+2+4 | 1+2   | 1+3  | 2+3  |
| UMPC Body SAR 1g | Back          | 1.081                  | 0.084                | 0.742                       | 0.103                       | 1.165               | See note 1 | 1.268 | 0.01  | 0.02 | 0.02 |
|                  | Front         | 1.198                  | 0.096                | 0.172                       | 0.225*                      | 1.294               | 1.466      | 1.519 | N/A   | N/A  | N/A  |
|                  | Top           | -                      | 0.140                | 0.167                       | 0.225                       | 0.140               | 0.307      | 0.365 | N/A   | N/A  | N/A  |
|                  | Bottom        | 1.398                  | -                    | -                           | -                           | 1.398               | 1.398      | 1.398 | N/A   | N/A  | N/A  |
|                  | Right         | 0.458                  | 0.077                | 0.742*                      | -                           | 0.535               | 1.277      | 0.535 | N/A   | N/A  | N/A  |
| Simult Tx        | Configuration | LTE Band 41 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) |            |       | SPLSR |      |      |
|                  |               | 1                      | 2                    | 3                           | 4                           | 1+2                 | 1+2+3      | 1+2+4 | 1+2   | 1+3  | 2+3  |
| UMPC Body SAR 1g | Back          | 0.932                  | 0.084                | 0.742                       | 0.103                       | 1.016               | See note 1 | 1.119 | 0.01  | 0.01 | 0.02 |
|                  | Front         | 0.913                  | 0.096                | 0.172                       | 0.225*                      | 1.009               | 1.181      | 1.234 | N/A   | N/A  | N/A  |
|                  | Top           | -                      | 0.140                | 0.167                       | 0.225                       | 0.140               | 0.307      | 0.365 | N/A   | N/A  | N/A  |
|                  | Bottom        | 1.110                  | -                    | -                           | -                           | 1.110               | 1.110      | 1.110 | N/A   | N/A  | N/A  |
|                  | Right         | 0.442                  | 0.077                | 0.742*                      | -                           | 0.519               | 1.261      | 0.519 | N/A   | N/A  | N/A  |

| Exposure Condition | Mode               | 2G/3G/4G SAR (W/kg) | Bluetooth SAR (W/kg) | 5 GHz WLAN MIMO at 20 dBm SAR (W/kg) | $\Sigma$ SAR (W/kg) |
|--------------------|--------------------|---------------------|----------------------|--------------------------------------|---------------------|
|                    |                    | 1                   | 2                    | 3                                    | 1+2+3               |
| UMPC Body SAR 1g   | GPRS 850           | 0.784               | 0.140                | 0.670                                | 1.594               |
|                    | GPRS 1900          | 1.130               | 0.140                | 0.670                                | See Table Below     |
|                    | UMTS 850           | 0.426               | 0.140                | 0.670                                | 1.236               |
|                    | UMTS 1750          | 0.788               | 0.140                | 0.670                                | See Table Below     |
|                    | UMTS 1900          | 1.384               | 0.140                | 0.670                                | See Table Below     |
|                    | LTE Band 71        | 0.425               | 0.140                | 0.670                                | 1.235               |
|                    | LTE Band 12        | 0.521               | 0.140                | 0.670                                | 1.331               |
|                    | LTE Band 13        | 0.696               | 0.140                | 0.670                                | 1.506               |
|                    | LTE Band 14        | 0.665               | 0.140                | 0.670                                | 1.475               |
|                    | LTE Band 26 (Cell) | 0.458               | 0.140                | 0.670                                | 1.268               |
|                    | LTE Band 66 (AWS)  | 0.861               | 0.140                | 0.670                                | See Table Below     |
|                    | LTE Band 25 (PCS)  | 1.240               | 0.140                | 0.670                                | See Table Below     |
|                    | LTE Band 30        | 1.165               | 0.140                | 0.670                                | See Table Below     |
|                    | LTE Band 7         | 1.398               | 0.140                | 0.670                                | See Table Below     |
|                    | LTE Band 41        | 1.110               | 0.140                | 0.670                                | See Table Below     |

|                                         |                                                                                     |                               |                       |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|-----------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  |                               | SAR EVALUATION REPORT |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1 A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                       |                                                                                       | Page 147 of 176                 |

| Simult Tx        | Configuration | GPRS 1900 SAR (W/kg)         | Bluetooth SAR (W/kg) | 5 GHz WLAN MIMO at 20 dBm SAR (W/kg) | Σ SAR (W/kg) | SPLSR            |               |                        | Simult Tx            | Configuration                        | UMTS 1750 SAR (W/kg)         | Bluetooth SAR (W/kg) | 5 GHz WLAN MIMO at 20 dBm SAR (W/kg) | Σ SAR (W/kg) |       |      |      |
|------------------|---------------|------------------------------|----------------------|--------------------------------------|--------------|------------------|---------------|------------------------|----------------------|--------------------------------------|------------------------------|----------------------|--------------------------------------|--------------|-------|------|------|
|                  |               | 1                            | 2                    | 3                                    | 1+2+3        | 1+2              | 1+3           | 2+3                    |                      |                                      | 1                            | 2                    | 3                                    | 1+2+3        |       |      |      |
| UMPC Body SAR 1g | Back          | 0.873                        | 0.084                | 0.670                                | See note 1   | 0.01             | 0.01          | 0.02                   | UMPC Body SAR 1g     | Back                                 | 0.752                        | 0.084                | 0.670                                | 1.506        |       |      |      |
|                  | Front         | 0.663                        | 0.096                | 0.217                                | 0.976        | N/A              | N/A           | N/A                    |                      | Front                                | 0.756                        | 0.096                | 0.217                                | 1.069        |       |      |      |
|                  | Top           | -                            | 0.140                | 0.350                                | 0.490        | N/A              | N/A           | N/A                    |                      | Top                                  | -                            | 0.140                | 0.350                                | 0.490        |       |      |      |
|                  | Bottom        | 1.130                        | -                    | -                                    | 1.130        | N/A              | N/A           | N/A                    |                      | Bottom                               | 0.788                        | -                    | -                                    | 0.788        |       |      |      |
|                  | Right         | 0.238                        | 0.077                | 0.670*                               | 0.985        | N/A              | N/A           | N/A                    |                      | Right                                | 0.352                        | 0.077                | 0.670*                               | 1.099        |       |      |      |
| Simult Tx        | Configuration | UMTS 1900 SAR (W/kg)         | Bluetooth SAR (W/kg) | 5 GHz WLAN MIMO at 20 dBm SAR (W/kg) | Σ SAR (W/kg) | SPLSR            |               |                        | Simult Tx            | Configuration                        | LTE Band 66 (AWS) SAR (W/kg) | Bluetooth SAR (W/kg) | 5 GHz WLAN MIMO at 20 dBm SAR (W/kg) | Σ SAR (W/kg) |       |      |      |
|                  |               | 1                            | 2                    | 3                                    | 1+2+3        | 1+2              | 1+3           | 2+3                    |                      |                                      | 1                            | 2                    | 3                                    | 1+2+3        |       |      |      |
| UMPC Body SAR 1g | Back          | 0.908                        | 0.084                | 0.670                                | See note 1   | 0.01             | 0.01          | 0.02                   | UMPC Body SAR 1g     | Back                                 | 0.767                        | 0.084                | 0.670                                | 1.521        |       |      |      |
|                  | Front         | 0.744                        | 0.096                | 0.217                                | 1.057        | N/A              | N/A           | N/A                    |                      | Front                                | 0.612                        | 0.096                | 0.217                                | 0.925        |       |      |      |
|                  | Top           | -                            | 0.140                | 0.350                                | 0.490        | N/A              | N/A           | N/A                    |                      | Top                                  | -                            | 0.140                | 0.350                                | 0.490        |       |      |      |
|                  | Bottom        | 1.384                        | -                    | -                                    | 1.384        | N/A              | N/A           | N/A                    |                      | Bottom                               | 0.861                        | -                    | -                                    | 0.861        |       |      |      |
|                  | Right         | 0.283                        | 0.077                | 0.670*                               | 1.030        | N/A              | N/A           | N/A                    |                      | Right                                | 0.298                        | 0.077                | 0.670*                               | 1.045        |       |      |      |
| Simult Tx        | Configuration | LTE Band 25 (PCS) SAR (W/kg) | Bluetooth SAR (W/kg) | 5 GHz WLAN MIMO at 20 dBm SAR (W/kg) | Σ SAR (W/kg) | Simult Tx        | Configuration | LTE Band 30 SAR (W/kg) | Bluetooth SAR (W/kg) | 5 GHz WLAN MIMO at 20 dBm SAR (W/kg) | Σ SAR (W/kg)                 | SPLSR                |                                      |              |       |      |      |
|                  |               | 1                            | 2                    | 3                                    | 1+2+3        |                  |               | 1                      | 2                    | 3                                    | 1+2+3                        | 1+2                  | 1+3                                  | 2+3          |       |      |      |
| UMPC Body SAR 1g | Back          | 0.649                        | 0.084                | 0.670                                | 1.403        | UMPC Body SAR 1g | Back          | 0.953                  | 0.084                | 0.670                                | See note 1                   | 0.01                 | 0.01                                 | 0.02         |       |      |      |
|                  | Front         | 0.707                        | 0.096                | 0.217                                | 1.020        |                  | Front         | 0.895                  | 0.096                | 0.217                                | 1.208                        | N/A                  | N/A                                  | N/A          |       |      |      |
|                  | Top           | -                            | 0.140                | 0.350                                | 0.490        |                  | Top           | -                      | 0.140                | 0.350                                | 0.490                        | N/A                  | N/A                                  | N/A          |       |      |      |
|                  | Bottom        | 1.240                        | -                    | -                                    | 1.240        |                  | Bottom        | 1.165                  | -                    | -                                    | 1.165                        | N/A                  | N/A                                  | N/A          |       |      |      |
|                  | Right         | 0.209                        | 0.077                | 0.670*                               | 0.956        |                  | Right         | 0.250                  | 0.077                | 0.670*                               | 0.997                        | N/A                  | N/A                                  | N/A          |       |      |      |
| Simult Tx        | Configuration | LTE Band 7 SAR (W/kg)        | Bluetooth SAR (W/kg) | 5 GHz WLAN MIMO at 20 dBm SAR (W/kg) | Σ SAR (W/kg) | SPLSR            |               |                        | Simult Tx            | Configuration                        | LTE Band 41 SAR (W/kg)       | Bluetooth SAR (W/kg) | 5 GHz WLAN MIMO at 20 dBm SAR (W/kg) | Σ SAR (W/kg) | SPLSR |      |      |
|                  |               | 1                            | 2                    | 3                                    | 1+2+3        | 1+2              | 1+3           | 2+3                    |                      |                                      | 1                            | 2                    | 3                                    | 1+2+3        | 1+2   | 1+3  | 2+3  |
| UMPC Body SAR 1g | Back          | 1.081                        | 0.084                | 0.670                                | See note 1   | 0.01             | 0.01          | 0.02                   | UMPC Body SAR 1g     | Back                                 | 0.932                        | 0.084                | 0.670                                | See note 1   | 0.01  | 0.01 | 0.02 |
|                  | Front         | 1.198                        | 0.096                | 0.217                                | 1.511        | N/A              | N/A           | N/A                    |                      | Front                                | 0.913                        | 0.096                | 0.217                                | 1.226        | N/A   | N/A  | N/A  |
|                  | Top           | -                            | 0.140                | 0.350                                | 0.490        | N/A              | N/A           | N/A                    |                      | Top                                  | -                            | 0.140                | 0.350                                | 0.490        | N/A   | N/A  | N/A  |
|                  | Bottom        | 1.398                        | -                    | -                                    | 1.398        | N/A              | N/A           | N/A                    |                      | Bottom                               | 1.110                        | -                    | -                                    | 1.110        | N/A   | N/A  | N/A  |
|                  | Right         | 0.458                        | 0.077                | 0.670*                               | 1.205        | N/A              | N/A           | N/A                    |                      | Right                                | 0.442                        | 0.077                | 0.670*                               | 1.189        | N/A   | N/A  | N/A  |

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 148 of 176                 |

## 12.8 Body Simultaneous Transmission Analysis: 10g UMPC Extremity

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 12-18**

### Simultaneous Transmission Scenario with 2.4 GHz WLAN (UMPC Extremity)

| Simult Tx              | Configuration | GPRS 850 SAR (W/kg)  | 2.4 GHz WLAN Ant 1 SAR (W/kg) | 2.4 GHz WLAN Ant 2 SAR (W/kg) | 2.4 GHz WLAN MIMO at 20 dBm SAR (W/kg) | $\Sigma$ SAR (W/kg) |       |              | SPLSR |
|------------------------|---------------|----------------------|-------------------------------|-------------------------------|----------------------------------------|---------------------|-------|--------------|-------|
|                        |               | 1                    | 2                             | 3                             | 4                                      | 1+2                 | 1+3   | 1+4          | 1+2   |
| UMPC Extremity 10g SAR | Back          | 1.514                | 1.764                         | 1.117                         | 1.031                                  | <b>3.278</b>        | 2.631 | 2.545        | N/A   |
|                        | Front         | 1.276                | 3.185                         | 0.525                         | 1.657                                  | See Note 1          | 1.801 | 2.933        | 0.07  |
|                        | Top           | -                    | 2.399                         | 0.782                         | 1.531                                  | 2.399               | 0.782 | 1.531        | N/A   |
|                        | Bottom        | 1.721                | -                             | -                             | -                                      | 1.721               | 1.721 | 1.721        | N/A   |
|                        | Right         | 1.126                | 0.860                         | -                             | 0.523                                  | 1.986               | 1.126 | 1.649        | N/A   |
| Simult Tx              | Configuration | GPRS 1900 SAR (W/kg) | 2.4 GHz WLAN Ant 1 SAR (W/kg) | 2.4 GHz WLAN Ant 2 SAR (W/kg) | 2.4 GHz WLAN MIMO at 20 dBm SAR (W/kg) | $\Sigma$ SAR (W/kg) |       |              | SPLSR |
|                        |               | 1                    | 2                             | 3                             | 4                                      | 1+2                 | 1+3   | 1+4          | 1+2   |
| UMPC Extremity 10g SAR | Back          | 1.479                | 1.764                         | 1.117                         | 1.031                                  | <b>3.243</b>        | 2.596 | 2.510        | N/A   |
|                        | Front         | 1.305                | 3.185                         | 0.525                         | 1.657                                  | See Note 1          | 1.830 | 2.962        | 0.07  |
|                        | Top           | -                    | 2.399                         | 0.782                         | 1.531                                  | 2.399               | 0.782 | 1.531        | N/A   |
|                        | Bottom        | 3.110                | -                             | -                             | -                                      | 3.110               | 3.110 | 3.110        | N/A   |
|                        | Right         | 0.692                | 0.860                         | -                             | 0.523                                  | 1.552               | 0.692 | 1.215        | N/A   |
| Simult Tx              | Configuration | UMTS 850 SAR (W/kg)  | 2.4 GHz WLAN Ant 1 SAR (W/kg) | 2.4 GHz WLAN Ant 2 SAR (W/kg) | 2.4 GHz WLAN MIMO at 20 dBm SAR (W/kg) | $\Sigma$ SAR (W/kg) |       |              | SPLSR |
|                        |               | 1                    | 2                             | 3                             | 4                                      | 1+2                 | 1+3   | 1+4          | 1+2   |
| UMPC Extremity 10g SAR | Back          | 1.006                | 1.764                         | 1.117                         | 1.031                                  | <b>2.770</b>        | 2.123 | 2.037        | N/A   |
|                        | Front         | 1.009                | 3.185                         | 0.525                         | 1.657                                  | See Note 1          | 1.534 | 2.666        | 0.06  |
|                        | Top           | -                    | 2.399                         | 0.782                         | 1.531                                  | 2.399               | 0.782 | 1.531        | N/A   |
|                        | Bottom        | 0.618                | -                             | -                             | -                                      | 0.618               | 0.618 | 0.618        | N/A   |
|                        | Right         | 1.507                | 0.860                         | -                             | 0.523                                  | 2.367               | 1.507 | 2.030        | N/A   |
| Simult Tx              | Configuration | UMTS 1750 SAR (W/kg) | 2.4 GHz WLAN Ant 1 SAR (W/kg) | 2.4 GHz WLAN Ant 2 SAR (W/kg) | 2.4 GHz WLAN MIMO at 20 dBm SAR (W/kg) | $\Sigma$ SAR (W/kg) |       |              | SPLSR |
|                        |               | 1                    | 2                             | 3                             | 4                                      | 1+2                 | 1+3   | 1+4          | 1+2   |
| UMPC Extremity 10g SAR | Back          | 1.246                | 1.764                         | 1.117                         | 1.031                                  | 3.010               | 2.363 | 2.277        | N/A   |
|                        | Front         | 1.375                | 3.185                         | 0.525                         | 1.657                                  | See Note 1          | 1.900 | <b>3.032</b> | 0.06  |
|                        | Top           | -                    | 2.399                         | 0.782                         | 1.531                                  | 2.399               | 0.782 | 1.531        | N/A   |
|                        | Bottom        | 2.956                | -                             | -                             | -                                      | 2.956               | 2.956 | 2.956        | N/A   |
|                        | Right         | 0.691                | 0.860                         | -                             | 0.523                                  | 1.551               | 0.691 | 1.214        | N/A   |

|                                                |                                                                                                                                   |                                      |                                                                                       |                                        |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
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| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                                                                           | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 149 of 176                        |

| Simult Tx              | Configuration | UMTS 1900 SAR (W/kg)   | 2.4 GHz WLAN Ant 1 SAR (W/kg) | 2.4 GHz WLAN Ant 2 SAR (W/kg) | 2.4 GHz WLAN MIMO at 20 dBm SAR (W/kg) | $\Sigma$ SAR (W/kg) |       |              | SPLSR |
|------------------------|---------------|------------------------|-------------------------------|-------------------------------|----------------------------------------|---------------------|-------|--------------|-------|
|                        |               | 1                      | 2                             | 3                             | 4                                      | 1+2                 | 1+3   | 1+4          | 1+2   |
| UMPC Extremity 10g SAR | Back          | 1.612                  | 1.764                         | 1.117                         | 1.031                                  | <b>3.376</b>        | 2.729 | 2.643        | N/A   |
|                        | Front         | 1.640                  | 3.185                         | 0.525                         | 1.657                                  | See Note 1          | 2.165 | 3.297        | 0.07  |
|                        | Top           | -                      | 2.399                         | 0.782                         | 1.531                                  | 2.399               | 0.782 | 1.531        | N/A   |
|                        | Bottom        | 3.281                  | -                             | -                             | -                                      | 3.281               | 3.281 | 3.281        | N/A   |
|                        | Right         | 0.760                  | 0.860                         | -                             | 0.523                                  | 1.620               | 0.760 | 1.283        | N/A   |
| Simult Tx              | Configuration | LTE Band 71 SAR (W/kg) | 2.4 GHz WLAN Ant 1 SAR (W/kg) | 2.4 GHz WLAN Ant 2 SAR (W/kg) | 2.4 GHz WLAN MIMO at 20 dBm SAR (W/kg) | $\Sigma$ SAR (W/kg) |       |              | SPLSR |
|                        |               | 1                      | 2                             | 3                             | 4                                      | 1+2                 | 1+3   | 1+4          | 1+2   |
| UMPC Extremity 10g SAR | Back          | 0.843                  | 1.764                         | 1.117                         | 1.031                                  | 2.607               | 1.960 | 1.874        | N/A   |
|                        | Front         | 1.311                  | 3.185                         | 0.525                         | 1.657                                  | See Note 1          | 1.836 | <b>2.968</b> | 0.07  |
|                        | Top           | -                      | 2.399                         | 0.782                         | 1.531                                  | 2.399               | 0.782 | 1.531        | N/A   |
|                        | Bottom        | 1.016                  | -                             | -                             | -                                      | 1.016               | 1.016 | 1.016        | N/A   |
|                        | Right         | 1.274                  | 0.860                         | -                             | 0.523                                  | 2.134               | 1.274 | 1.797        | N/A   |
| Simult Tx              | Configuration | LTE Band 12 SAR (W/kg) | 2.4 GHz WLAN Ant 1 SAR (W/kg) | 2.4 GHz WLAN Ant 2 SAR (W/kg) | 2.4 GHz WLAN MIMO at 20 dBm SAR (W/kg) | $\Sigma$ SAR (W/kg) |       |              | SPLSR |
|                        |               | 1                      | 2                             | 3                             | 4                                      | 1+2                 | 1+3   | 1+4          | 1+2   |
| UMPC Extremity 10g SAR | Back          | 1.229                  | 1.764                         | 1.117                         | 1.031                                  | 2.993               | 2.346 | 2.260        | N/A   |
|                        | Front         | 1.436                  | 3.185                         | 0.525                         | 1.657                                  | See Note 1          | 1.961 | <b>3.093</b> | 0.07  |
|                        | Top           | -                      | 2.399                         | 0.782                         | 1.531                                  | 2.399               | 0.782 | 1.531        | N/A   |
|                        | Bottom        | 1.218                  | -                             | -                             | -                                      | 1.218               | 1.218 | 1.218        | N/A   |
|                        | Right         | 1.153                  | 0.860                         | -                             | 0.523                                  | 2.013               | 1.153 | 1.676        | N/A   |
| Simult Tx              | Configuration | LTE Band 13 SAR (W/kg) | 2.4 GHz WLAN Ant 1 SAR (W/kg) | 2.4 GHz WLAN Ant 2 SAR (W/kg) | 2.4 GHz WLAN MIMO at 20 dBm SAR (W/kg) | $\Sigma$ SAR (W/kg) |       |              | SPLSR |
|                        |               | 1                      | 2                             | 3                             | 4                                      | 1+2                 | 1+3   | 1+4          | 1+2   |
| UMPC Extremity 10g SAR | Back          | 1.589                  | 1.764                         | 1.117                         | 1.031                                  | 3.353               | 2.706 | 2.620        | N/A   |
|                        | Front         | 1.715                  | 3.185                         | 0.525                         | 1.657                                  | See Note 1          | 2.240 | <b>3.372</b> | 0.07  |
|                        | Top           | -                      | 2.399                         | 0.782                         | 1.531                                  | 2.399               | 0.782 | 1.531        | N/A   |
|                        | Bottom        | 0.983                  | -                             | -                             | -                                      | 0.983               | 0.983 | 0.983        | N/A   |
|                        | Right         | 1.226                  | 0.860                         | -                             | 0.523                                  | 2.086               | 1.226 | 1.749        | N/A   |

|                                         |                                                                                                                                                                                                        |                               |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
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| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                                                                                                                                       | DUT Type:<br>Portable Handset | Page 150 of 176                 |

| Simult Tx              | Configuration | LTE Band 14 SAR (W/kg)        | 2.4 GHz WLAN Ant 1 SAR (W/kg) | 2.4 GHz WLAN Ant 2 SAR (W/kg) | 2.4 GHz WLAN MIMO at 20 dBm SAR (W/kg) | $\Sigma$ SAR (W/kg) |              |              | SPLSR |
|------------------------|---------------|-------------------------------|-------------------------------|-------------------------------|----------------------------------------|---------------------|--------------|--------------|-------|
|                        |               | 1                             | 2                             | 3                             | 4                                      | 1+2                 | 1+3          | 1+4          | 1+2   |
| UMPC Extremity 10g SAR | Back          | 1.487                         | 1.764                         | 1.117                         | 1.031                                  | 3.251               | 2.604        | 2.518        | N/A   |
|                        | Front         | 1.621                         | 3.185                         | 0.525                         | 1.657                                  | See Note 1          | 2.146        | <b>3.278</b> | 0.07  |
|                        | Top           | -                             | 2.399                         | 0.782                         | 1.531                                  | 2.399               | 0.782        | 1.531        | N/A   |
|                        | Bottom        | 0.938                         | -                             | -                             | -                                      | 0.938               | 0.938        | 0.938        | N/A   |
|                        | Right         | 1.211                         | 0.860                         | -                             | 0.523                                  | 2.071               | 1.211        | 1.734        | N/A   |
| Simult Tx              | Configuration | LTE Band 26 (Cell) SAR (W/kg) | 2.4 GHz WLAN Ant 1 SAR (W/kg) | 2.4 GHz WLAN Ant 2 SAR (W/kg) | 2.4 GHz WLAN MIMO at 20 dBm SAR (W/kg) | $\Sigma$ SAR (W/kg) |              |              | SPLSR |
|                        |               | 1                             | 2                             | 3                             | 4                                      | 1+2                 | 1+3          | 1+4          | 1+2   |
| UMPC Extremity 10g SAR | Back          | 0.997                         | 1.764                         | 1.117                         | 1.031                                  | <b>2.761</b>        | 2.114        | 2.028        | N/A   |
|                        | Front         | 0.907                         | 3.185                         | 0.525                         | 1.657                                  | See Note 1          | 1.432        | 2.564        | 0.06  |
|                        | Top           | -                             | 2.399                         | 0.782                         | 1.531                                  | 2.399               | 0.782        | 1.531        | N/A   |
|                        | Bottom        | 0.635                         | -                             | -                             | -                                      | 0.635               | 0.635        | 0.635        | N/A   |
|                        | Right         | 1.491                         | 0.860                         | -                             | 0.523                                  | 2.351               | 1.491        | 2.014        | N/A   |
| Simult Tx              | Configuration | LTE Band 66 (AWS) SAR (W/kg)  | 2.4 GHz WLAN Ant 1 SAR (W/kg) | 2.4 GHz WLAN Ant 2 SAR (W/kg) | 2.4 GHz WLAN MIMO at 20 dBm SAR (W/kg) | $\Sigma$ SAR (W/kg) |              |              | SPLSR |
|                        |               | 1                             | 2                             | 3                             | 4                                      | 1+2                 | 1+3          | 1+4          | 1+2   |
| UMPC Extremity 10g SAR | Back          | 1.309                         | 1.764                         | 1.117                         | 1.031                                  | 3.073               | 2.426        | 2.340        | N/A   |
|                        | Front         | 1.334                         | 3.185                         | 0.525                         | 1.657                                  | See Note 1          | 1.859        | 2.991        | 0.06  |
|                        | Top           | -                             | 2.399                         | 0.782                         | 1.531                                  | 2.399               | 0.782        | 1.531        | N/A   |
|                        | Bottom        | 3.292                         | -                             | -                             | -                                      | <b>3.292</b>        | <b>3.292</b> | <b>3.292</b> | N/A   |
|                        | Right         | 0.693                         | 0.860                         | -                             | 0.523                                  | 1.553               | 0.693        | 1.216        | N/A   |
| 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) | 2.4 GHz WLAN MIMO at 20 dBm SAR (W/kg) | $\Sigma$ SAR (W/kg) |              |              | SPLSR |
|                        |               | 1                             | 2                             | 3                             | 4                                      | 1+2                 | 1+3          | 1+4          | 1+2   |
| UMPC Extremity 10g SAR | Back          | 1.613                         | 1.764                         | 1.117                         | 1.031                                  | <b>3.377</b>        | 2.730        | 2.644        | N/A   |
|                        | Front         | 1.532                         | 3.185                         | 0.525                         | 1.657                                  | See Note 1          | 2.057        | 3.189        | 0.07  |
|                        | Top           | -                             | 2.399                         | 0.782                         | 1.531                                  | 2.399               | 0.782        | 1.531        | N/A   |
|                        | Bottom        | 3.290                         | -                             | -                             | -                                      | 3.290               | 3.290        | 3.290        | N/A   |
|                        | Right         | 0.658                         | 0.860                         | -                             | 0.523                                  | 1.518               | 0.658        | 1.181        | N/A   |

|                                         |                                                                                                                                                                                                        |                               |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
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| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                                                                                                                                       | DUT Type:<br>Portable Handset | Page 151 of 176                 |

| Simult Tx              | Configuration | LTE Band 30 SAR (W/kg) | 2.4 GHz WLAN Ant 1 SAR (W/kg) | 2.4 GHz WLAN Ant 2 SAR (W/kg) | 2.4 GHz WLAN MIMO at 20 dBm SAR (W/kg) | $\Sigma$ SAR (W/kg) |              |              | SPLSR |
|------------------------|---------------|------------------------|-------------------------------|-------------------------------|----------------------------------------|---------------------|--------------|--------------|-------|
|                        |               | 1                      | 2                             | 3                             | 4                                      | 1+2                 | 1+3          | 1+4          | 1+2   |
| UMPC Extremity 10g SAR | Back          | 0.951                  | 1.764                         | 1.117                         | 1.031                                  | 2.715               | 2.068        | 1.982        | N/A   |
|                        | Front         | 1.225                  | 3.185                         | 0.525                         | 1.657                                  | See Note 1          | 1.750        | 2.882        | 0.06  |
|                        | Top           | -                      | 2.399                         | 0.782                         | 1.531                                  | 2.399               | 0.782        | 1.531        | N/A   |
|                        | Bottom        | 3.287                  | -                             | -                             | -                                      | <b>3.287</b>        | <b>3.287</b> | <b>3.287</b> | N/A   |
|                        | Right         | 0.581                  | 0.860                         | -                             | 0.523                                  | 1.441               | 0.581        | 1.104        | N/A   |
| Simult Tx              | Configuration | LTE Band 7 SAR (W/kg)  | 2.4 GHz WLAN Ant 1 SAR (W/kg) | 2.4 GHz WLAN Ant 2 SAR (W/kg) | 2.4 GHz WLAN MIMO at 20 dBm SAR (W/kg) | $\Sigma$ SAR (W/kg) |              |              | SPLSR |
|                        |               | 1                      | 2                             | 3                             | 4                                      | 1+2                 | 1+3          | 1+4          | 1+2   |
| UMPC Extremity 10g SAR | Back          | 0.713                  | 1.764                         | 1.117                         | 1.031                                  | 2.477               | 1.830        | 1.744        | N/A   |
|                        | Front         | 1.048                  | 3.185                         | 0.525                         | 1.657                                  | See Note 1          | 1.573        | 2.705        | 0.06  |
|                        | Top           | -                      | 2.399                         | 0.782                         | 1.531                                  | 2.399               | 0.782        | 1.531        | N/A   |
|                        | Bottom        | 2.733                  | -                             | -                             | -                                      | <b>2.733</b>        | <b>2.733</b> | <b>2.733</b> | N/A   |
|                        | Right         | 0.905                  | 0.860                         | -                             | 0.523                                  | 1.765               | 0.905        | 1.428        | N/A   |
| Simult Tx              | Configuration | LTE Band 41 SAR (W/kg) | 2.4 GHz WLAN Ant 1 SAR (W/kg) | 2.4 GHz WLAN Ant 2 SAR (W/kg) | 2.4 GHz WLAN MIMO at 20 dBm SAR (W/kg) | $\Sigma$ SAR (W/kg) |              |              | SPLSR |
|                        |               | 1                      | 2                             | 3                             | 4                                      | 1+2                 | 1+3          | 1+4          | 1+2   |
| UMPC Extremity 10g SAR | Back          | 1.354                  | 1.764                         | 1.117                         | 1.031                                  | 3.118               | 2.471        | 2.385        | N/A   |
|                        | Front         | 1.539                  | 3.185                         | 0.525                         | 1.657                                  | See Note 1          | 2.064        | 3.196        | 0.07  |
|                        | Top           | -                      | 2.399                         | 0.782                         | 1.531                                  | 2.399               | 0.782        | 1.531        | N/A   |
|                        | Bottom        | 3.243                  | -                             | -                             | -                                      | <b>3.243</b>        | <b>3.243</b> | <b>3.243</b> | N/A   |
|                        | Right         | 1.324                  | 0.860                         | -                             | 0.523                                  | 2.184               | 1.324        | 1.847        | N/A   |

|                                                |                                                                                                                                   |                                      |                                                                                       |                                        |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMF900F                             |  <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                                                                           | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 152 of 176                        |

**Table 12-19**  
**Simultaneous Transmission Scenario with 5 GHz WLAN (UMPC Extremity)**

| Exposure Condition     | Mode               | 2G/3G/4G SAR (W/kg) | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | $\Sigma$ SAR (W/kg) |       |                 |
|------------------------|--------------------|---------------------|-----------------------------|-----------------------------|---------------------|-------|-----------------|
|                        |                    | 1                   | 2                           | 3                           | 1+2                 | 1+3   | 1+2+3           |
| UMPC Extremity 10g SAR | GPRS 850           | 1.721               | 0.849                       | 0.646                       | 2.570               | 2.367 | 3.216           |
|                        | GPRS 1900          | 3.110               | 0.849                       | 0.646                       | <b>3.959</b>        | 3.756 | See Table Below |
|                        | UMTS 850           | 1.507               | 0.849                       | 0.646                       | 2.356               | 2.153 | 3.002           |
|                        | UMTS 1750          | 2.956               | 0.849                       | 0.646                       | 3.805               | 3.602 | See Table Below |
|                        | UMTS 1900          | 3.281               | 0.849                       | 0.646                       | See Table Below     | 3.927 | See Table Below |
|                        | LTE Band 71        | 1.311               | 0.849                       | 0.646                       | 2.160               | 1.957 | 2.806           |
|                        | LTE Band 12        | 1.436               | 0.849                       | 0.646                       | 2.285               | 2.082 | 2.931           |
|                        | LTE Band 13        | 1.715               | 0.849                       | 0.646                       | 2.564               | 2.361 | 3.210           |
|                        | LTE Band 14        | 1.621               | 0.849                       | 0.646                       | 2.470               | 2.267 | 3.116           |
|                        | LTE Band 26 (Cell) | 1.491               | 0.849                       | 0.646                       | 2.340               | 2.137 | 2.986           |
|                        | LTE Band 66 (AWS)  | 3.292               | 0.849                       | 0.646                       | See Table Below     | 3.938 | See Table Below |
|                        | LTE Band 25 (PCS)  | 3.290               | 0.849                       | 0.646                       | See Table Below     | 3.936 | See Table Below |
|                        | LTE Band 30        | 3.287               | 0.849                       | 0.646                       | See Table Below     | 3.933 | See Table Below |
|                        | LTE Band 7         | 2.733               | 0.849                       | 0.646                       | 3.582               | 3.379 | See Table Below |
|                        | LTE Band 41        | 3.243               | 0.849                       | 0.646                       | See Table Below     | 3.889 | See Table Below |

| Simult Tx              | Configuration | GPRS 1900 SAR (W/kg)         | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | $\Sigma$ SAR (W/kg) |              |              |
|------------------------|---------------|------------------------------|-----------------------------|-----------------------------|---------------------|--------------|--------------|
|                        |               | 1                            | 2                           | 3                           | 1+2                 | 1+3          | 1+2+3        |
| UMPC Extremity 10g SAR | Back          | 1.479                        | 0.849                       | 0.436                       | 2.328               | 1.915        | 2.764        |
|                        | Front         | 1.305                        | 0.582                       | 0.646*                      | 1.887               | 1.951        | 2.533        |
|                        | Top           | -                            | 0.849*                      | 0.646                       | 0.849               | 0.646        | 1.495        |
|                        | Bottom        | 3.110                        | -                           | -                           | <b>3.110</b>        | <b>3.110</b> | <b>3.110</b> |
|                        | Right         | 0.692                        | 0.849*                      | -                           | 1.541               | 0.692        | 1.541        |
| Simult Tx              | Configuration | UMTS 1750 SAR (W/kg)         | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | $\Sigma$ SAR (W/kg) |              |              |
|                        |               | 1                            | 2                           | 3                           | 1+2                 | 1+3          | 1+2+3        |
| UMPC Extremity 10g SAR | Back          | 1.246                        | 0.849                       | 0.436                       | 2.095               | 1.682        | 2.531        |
|                        | Front         | 1.375                        | 0.582                       | 0.646*                      | 1.957               | 2.021        | 2.603        |
|                        | Top           | -                            | 0.849*                      | 0.646                       | 0.849               | 0.646        | 1.495        |
|                        | Bottom        | 2.956                        | -                           | -                           | <b>2.956</b>        | <b>2.956</b> | <b>2.956</b> |
|                        | Right         | 0.691                        | 0.849*                      | -                           | 1.540               | 0.691        | 1.540        |
| Simult Tx              | Configuration | LTE Band 66 (AWS) SAR (W/kg) | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | $\Sigma$ SAR (W/kg) |              |              |
|                        |               | 1                            | 2                           | 3                           | 1+2                 | 1+3          | 1+2+3        |
| UMPC Extremity 10g SAR | Back          | 1.309                        | 0.849                       | 0.436                       | 2.158               | 1.745        | 2.594        |
|                        | Front         | 1.334                        | 0.582                       | 0.646*                      | 1.916               | 1.980        | 2.562        |
|                        | Top           | -                            | 0.849*                      | 0.646                       | 0.849               | 0.646        | 1.495        |
|                        | Bottom        | 3.292                        | -                           | -                           | <b>3.292</b>        | <b>3.292</b> | <b>3.292</b> |
|                        | Right         | 0.693                        | 0.849*                      | -                           | 1.542               | 0.693        | 1.542        |
| 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) | $\Sigma$ SAR (W/kg) |              |              |
|                        |               | 1                            | 2                           | 3                           | 1+2                 | 1+3          | 1+2+3        |
| UMPC Extremity 10g SAR | Back          | 1.613                        | 0.849                       | 0.436                       | 2.462               | 2.049        | 2.898        |
|                        | Front         | 1.532                        | 0.582                       | 0.646*                      | 2.114               | 2.178        | 2.760        |
|                        | Top           | -                            | 0.849*                      | 0.646                       | 0.849               | 0.646        | 1.495        |
|                        | Bottom        | 3.290                        | -                           | -                           | <b>3.290</b>        | <b>3.290</b> | <b>3.290</b> |
|                        | Right         | 0.658                        | 0.849*                      | -                           | 1.507               | 0.658        | 1.507        |
| 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) | $\Sigma$ SAR (W/kg) |              |              |
|                        |               | 1                            | 2                           | 3                           | 1+2                 | 1+3          | 1+2+3        |
| UMPC Extremity 10g SAR | Back          | 0.713                        | 0.849                       | 0.436                       | 1.562               | 1.149        | 1.998        |
|                        | Front         | 1.048                        | 0.582                       | 0.646*                      | 1.630               | 1.694        | 2.276        |
|                        | Top           | -                            | 0.849*                      | 0.646                       | 0.849               | 0.646        | 1.495        |
|                        | Bottom        | 2.733                        | -                           | -                           | <b>2.733</b>        | <b>2.733</b> | <b>2.733</b> |
|                        | Right         | 0.905                        | 0.849*                      | -                           | 1.754               | 0.905        | 1.754        |
| 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) | $\Sigma$ SAR (W/kg) |              |              |
|                        |               | 1                            | 2                           | 3                           | 1+2                 | 1+3          | 1+2+3        |
| UMPC Extremity 10g SAR | Back          | 1.354                        | 0.849                       | 0.436                       | 2.203               | 1.790        | 2.639        |
|                        | Front         | 1.539                        | 0.582                       | 0.646*                      | 2.121               | 2.185        | 2.767        |
|                        | Top           | -                            | 0.849*                      | 0.646                       | 0.849               | 0.646        | 1.495        |
|                        | Bottom        | 3.243                        | -                           | -                           | <b>3.243</b>        | <b>3.243</b> | <b>3.243</b> |
|                        | Right         | 1.324                        | 0.849*                      | -                           | 2.173               | 1.324        | 2.173        |

|                        |                                                                                     |                              |                                                                                       |                     |
|------------------------|-------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------|---------------------|
| FCC ID: A3LSMF900F     |  | <b>SAR EVALUATION REPORT</b> |  | <b>Approved by:</b> |
|                        |                                                                                     |                              |                                                                                       | Quality Manager     |
| <b>Document S/N:</b>   | <b>Test Dates:</b>                                                                  | <b>DUT Type:</b>             |                                                                                       |                     |
| 1M1901280020-01-R1.A3L | 2/11/19 - 3/10/19                                                                   | Portable Handset             | Page 153 of 176                                                                       |                     |

**Table 12-20**  
**Simultaneous Transmission Scenario with 2.4 GHz WLAN MIMO and 5 GHz WLAN MIMO (UMPC Extremity)**

| Exposure Condition     | Mode               | 2G/3G/4G SAR (W/kg) | 2.4 GHz WLAN MIMO at 20 dBm SAR (W/kg) | 5 GHz WLAN MIMO at 16 dBm SAR (W/kg) | Σ SAR (W/kg)    |
|------------------------|--------------------|---------------------|----------------------------------------|--------------------------------------|-----------------|
|                        |                    | 1                   | 2                                      | 3                                    | 1+2+3           |
| UMPC Extremity 10g SAR | GPRS 850           | 1.721               | 1.657                                  | 0.584                                | <b>3.962</b>    |
|                        | GPRS 1900          | 3.110               | 1.657                                  | 0.584                                | See Table Below |
|                        | UMTS 850           | 1.507               | 1.657                                  | 0.584                                | 3.748           |
|                        | UMTS 1750          | 2.956               | 1.657                                  | 0.584                                | See Table Below |
|                        | UMTS 1900          | 3.281               | 1.657                                  | 0.584                                | See Table Below |
|                        | LTE Band 71        | 1.311               | 1.657                                  | 0.584                                | 3.552           |
|                        | LTE Band 12        | 1.436               | 1.657                                  | 0.584                                | 3.677           |
|                        | LTE Band 13        | 1.715               | 1.657                                  | 0.584                                | 3.956           |
|                        | LTE Band 14        | 1.621               | 1.657                                  | 0.584                                | 3.862           |
|                        | LTE Band 26 (Cell) | 1.491               | 1.657                                  | 0.584                                | 3.732           |
|                        | LTE Band 66 (AWS)  | 3.292               | 1.657                                  | 0.584                                | See Table Below |
|                        | LTE Band 25 (PCS)  | 3.290               | 1.657                                  | 0.584                                | See Table Below |
|                        | LTE Band 30        | 3.287               | 1.657                                  | 0.584                                | See Table Below |
|                        | LTE Band 7         | 2.733               | 1.657                                  | 0.584                                | See Table Below |
|                        | LTE Band 41        | 3.243               | 1.657                                  | 0.584                                | See Table Below |

| Simult Tx              | Configuration | GPRS 1900 SAR (W/kg) | 2.4 GHz WLAN MIMO at 20 dBm SAR (W/kg) | 5 GHz WLAN MIMO at 16 dBm SAR (W/kg) | Σ SAR (W/kg) | Simult Tx              | Configuration | UMTS 1750 SAR (W/kg)         | 2.4 GHz WLAN MIMO at 20 dBm SAR (W/kg) | 5 GHz WLAN MIMO at 16 dBm SAR (W/kg) | Σ SAR (W/kg) |
|------------------------|---------------|----------------------|----------------------------------------|--------------------------------------|--------------|------------------------|---------------|------------------------------|----------------------------------------|--------------------------------------|--------------|
|                        |               | 1                    | 2                                      | 3                                    | 1+2+3        |                        |               | 1                            | 2                                      | 3                                    | 1+2+3        |
| UMPC Extremity 10g SAR | Back          | 1.479                | 1.031                                  | 0.495                                | 3.005        | UMPC Extremity 10g SAR | Back          | 1.246                        | 1.031                                  | 0.495                                | 2.772        |
|                        | Front         | 1.305                | 1.657                                  | 0.336                                | <b>3.298</b> |                        | Front         | 1.375                        | 1.657                                  | 0.336                                | <b>3.368</b> |
|                        | Top           | -                    | 1.531                                  | 0.584                                | 2.115        |                        | Top           | -                            | 1.531                                  | 0.584                                | 2.115        |
|                        | Bottom        | 3.110                | -                                      | -                                    | 3.110        |                        | Bottom        | 2.956                        | -                                      | -                                    | 2.956        |
|                        | Right         | 0.692                | 0.523                                  | 0.584*                               | 1.710        |                        | Right         | 0.691                        | 0.523                                  | 0.584*                               | 1.709        |
| Simult Tx              | Configuration | UMTS 1900 SAR (W/kg) | 2.4 GHz WLAN MIMO at 20 dBm SAR (W/kg) | 5 GHz WLAN MIMO at 16 dBm SAR (W/kg) | Σ SAR (W/kg) | Simult Tx              | Configuration | LTE Band 66 (AWS) SAR (W/kg) | 2.4 GHz WLAN MIMO at 20 dBm SAR (W/kg) | 5 GHz WLAN MIMO at 16 dBm SAR (W/kg) | Σ SAR (W/kg) |
|                        |               | 1                    | 2                                      | 3                                    | 1+2+3        |                        |               | 1                            | 2                                      | 3                                    | 1+2+3        |
| UMPC Extremity 10g SAR | Back          | 1.612                | 1.031                                  | 0.495                                | 3.138        | UMPC Extremity 10g SAR | Back          | 1.309                        | 1.031                                  | 0.495                                | 2.835        |
|                        | Front         | 1.640                | 1.657                                  | 0.336                                | <b>3.633</b> |                        | Front         | 1.334                        | 1.657                                  | 0.336                                | <b>3.327</b> |
|                        | Top           | -                    | 1.531                                  | 0.584                                | 2.115        |                        | Top           | -                            | 1.531                                  | 0.584                                | 2.115        |
|                        | Bottom        | 3.281                | -                                      | -                                    | 3.281        |                        | Bottom        | 3.292                        | -                                      | -                                    | 3.292        |
|                        | Right         | 0.760                | 0.523                                  | 0.584*                               | 1.778        |                        | Right         | 0.693                        | 0.523                                  | 0.584*                               | 1.711        |

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 154 of 176                 |

| Simult Tx              | Configuration | LTE Band 25 (PCS) SAR (W/kg) | 2.4 GHz WLAN MIMO at 20 dBm SAR (W/kg) | 5 GHz WLAN MIMO at 16 dBm SAR (W/kg) | Σ SAR (W/kg) | Simult Tx              | Configuration | LTE Band 30 SAR (W/kg) | 2.4 GHz WLAN MIMO at 20 dBm SAR (W/kg) | 5 GHz WLAN MIMO at 16 dBm SAR (W/kg) | Σ SAR (W/kg) |
|------------------------|---------------|------------------------------|----------------------------------------|--------------------------------------|--------------|------------------------|---------------|------------------------|----------------------------------------|--------------------------------------|--------------|
|                        |               | 1                            | 2                                      | 3                                    | 1+2+3        |                        |               | 1                      | 2                                      | 3                                    | 1+2+3        |
| UMPC Extremity 10g SAR | Back          | 1.613                        | 1.031                                  | 0.495                                | 3.139        | UMPC Extremity 10g SAR | Back          | 0.951                  | 1.031                                  | 0.495                                | 2.477        |
|                        | Front         | 1.532                        | 1.657                                  | 0.336                                | <b>3.525</b> |                        | Front         | 1.225                  | 1.657                                  | 0.336                                | 3.218        |
|                        | Top           | -                            | 1.531                                  | 0.584                                | 2.115        |                        | Top           | -                      | 1.531                                  | 0.584                                | 2.115        |
|                        | Bottom        | 3.290                        | -                                      | -                                    | 3.290        |                        | Bottom        | 3.287                  | -                                      | -                                    | <b>3.287</b> |
|                        | Right         | 0.658                        | 0.523                                  | 0.584*                               | 1.676        |                        | Right         | 0.581                  | 0.523                                  | 0.584*                               | 1.599        |
| Simult Tx              | Configuration | LTE Band 7 SAR (W/kg)        | 2.4 GHz WLAN MIMO at 20 dBm SAR (W/kg) | 5 GHz WLAN MIMO at 16 dBm SAR (W/kg) | Σ SAR (W/kg) | Simult Tx              | Configuration | LTE Band 41 SAR (W/kg) | 2.4 GHz WLAN MIMO at 20 dBm SAR (W/kg) | 5 GHz WLAN MIMO at 16 dBm SAR (W/kg) | Σ SAR (W/kg) |
|                        |               | 1                            | 2                                      | 3                                    | 1+2+3        |                        |               | 1                      | 2                                      | 3                                    | 1+2+3        |
| UMPC Extremity 10g SAR | Back          | 0.713                        | 1.031                                  | 0.495                                | 2.239        | UMPC Extremity 10g SAR | Back          | 1.354                  | 1.031                                  | 0.495                                | 2.880        |
|                        | Front         | 1.048                        | 1.657                                  | 0.336                                | <b>3.041</b> |                        | Front         | 1.539                  | 1.657                                  | 0.336                                | <b>3.532</b> |
|                        | Top           | -                            | 1.531                                  | 0.584                                | 2.115        |                        | Top           | -                      | 1.531                                  | 0.584                                | 2.115        |
|                        | Bottom        | 2.733                        | -                                      | -                                    | 2.733        |                        | Bottom        | 3.243                  | -                                      | -                                    | 3.243        |
|                        | Right         | 0.905                        | 0.523                                  | 0.584*                               | 1.923        |                        | Right         | 1.324                  | 0.523                                  | 0.584*                               | 2.342        |

**Table 12-21**  
**Simultaneous Transmission Scenario with Bluetooth and 5GHz WLAN (UMPC Extremity)**

| Exposure Condition     | Mode               | 2G/3G/4G 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             | 1+2+3           | 1+2+4           | 1+2+3+4         |
| UMPC Extremity 10g SAR | GPRS 850           | 1.721               | 0.869                | 0.849                       | 0.646                       | 2.590           | 3.439           | 3.236           | See Table Below |
|                        | GPRS 1900          | 3.110               | 0.869                | 0.849                       | 0.646                       | 3.979           | See Table Below | See Table Below | See Table Below |
|                        | UMTS 850           | 1.507               | 0.869                | 0.849                       | 0.646                       | 2.376           | 3.225           | 3.022           | 3.871           |
|                        | UMTS 1750          | 2.956               | 0.869                | 0.849                       | 0.646                       | 3.825           | See Table Below | See Table Below | See Table Below |
|                        | UMTS 1900          | 3.281               | 0.869                | 0.849                       | 0.646                       | See Table Below | See Table Below | See Table Below | See Table Below |
|                        | LTE Band 71        | 1.311               | 0.869                | 0.849                       | 0.646                       | 2.180           | 3.029           | 2.826           | 3.675           |
|                        | LTE Band 12        | 1.436               | 0.869                | 0.849                       | 0.646                       | 2.305           | 3.154           | 2.951           | 3.800           |
|                        | LTE Band 13        | 1.715               | 0.869                | 0.849                       | 0.646                       | 2.584           | 3.433           | 3.230           | See Table Below |
|                        | LTE Band 14        | 1.621               | 0.869                | 0.849                       | 0.646                       | 2.490           | 3.339           | 3.136           | <b>3.985</b>    |
|                        | LTE Band 26 (Cell) | 1.491               | 0.869                | 0.849                       | 0.646                       | 2.360           | 3.209           | 3.006           | 3.855           |
|                        | LTE Band 66 (AWS)  | 3.292               | 0.869                | 0.849                       | 0.646                       | See Table Below | See Table Below | See Table Below | See Table Below |
|                        | LTE Band 25 (PCS)  | 3.290               | 0.869                | 0.849                       | 0.646                       | See Table Below | See Table Below | See Table Below | See Table Below |
|                        | LTE Band 30        | 3.287               | 0.869                | 0.849                       | 0.646                       | See Table Below | See Table Below | See Table Below | See Table Below |
|                        | LTE Band 7         | 2.733               | 0.869                | 0.849                       | 0.646                       | 3.602           | See Table Below | See Table Below | See Table Below |
|                        | LTE Band 41        | 3.243               | 0.869                | 0.849                       | 0.646                       | See Table Below | See Table Below | See Table Below | See Table Below |
| Simult Tx              | Configuration      | GPRS 850 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             | 1+2+3           | 1+2+4           | 1+2+3+4         |
| UMPC Extremity 10g SAR | Back               | 1.514               | 0.487                | 0.849                       | 0.436                       | 2.001           | 2.850           | 2.437           | 3.286           |
|                        | Front              | 1.276               | 0.869                | 0.582                       | 0.646*                      | 2.145           | 2.727           | 2.791           | <b>3.373</b>    |
|                        | Top                | -                   | 0.724                | 0.849*                      | 0.646                       | 0.724           | 1.573           | 1.370           | 2.219           |
|                        | Bottom             | 1.721               | -                    | -                           | -                           | 1.721           | 1.721           | 1.721           | 1.721           |
|                        | Right              | 1.126               | 0.234                | 0.849*                      | -                           | 1.360           | 2.209           | 1.360           | 2.209           |

|                                                |                                                                                                                                   |                                      |                                                                                       |                                        |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMF900F                             |  <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                                                                           | <b>DUT Type:</b><br>Portable Handset | Page 155 of 176                                                                       |                                        |

| Simult Tx                    | Configuration | GPRS<br>1900 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                 | 1+2+3 | 1+2+4 | 1+2+3+4      |
| UMPC<br>Extremity<br>10g SAR | Back          | 1.479                              | 0.487                   | 0.849                                | 0.436                                | 1.966               | 2.815 | 2.402 | 3.251        |
|                              | Front         | 1.305                              | 0.869                   | 0.582                                | 0.646*                               | 2.174               | 2.756 | 2.820 | <b>3.402</b> |
|                              | Top           | -                                  | 0.724                   | 0.849*                               | 0.646                                | 0.724               | 1.573 | 1.370 | 2.219        |
|                              | Bottom        | 3.110                              | -                       | -                                    | -                                    | 3.110               | 3.110 | 3.110 | 3.110        |
|                              | Right         | 0.692                              | 0.234                   | 0.849*                               | -                                    | 0.926               | 1.775 | 0.926 | 1.775        |
| Simult Tx                    | Configuration | UMTS<br>1750 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                 | 1+2+3 | 1+2+4 | 1+2+3+4      |
| UMPC<br>Extremity<br>10g SAR | Back          | 1.246                              | 0.487                   | 0.849                                | 0.436                                | 1.733               | 2.582 | 2.169 | 3.018        |
|                              | Front         | 1.375                              | 0.869                   | 0.582                                | 0.646*                               | 2.244               | 2.826 | 2.890 | <b>3.472</b> |
|                              | Top           | -                                  | 0.724                   | 0.849*                               | 0.646                                | 0.724               | 1.573 | 1.370 | 2.219        |
|                              | Bottom        | 2.956                              | -                       | -                                    | -                                    | 2.956               | 2.956 | 2.956 | 2.956        |
|                              | Right         | 0.691                              | 0.234                   | 0.849*                               | -                                    | 0.925               | 1.774 | 0.925 | 1.774        |
| Simult Tx                    | Configuration | UMTS<br>1900 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                 | 1+2+3 | 1+2+4 | 1+2+3+4      |
| UMPC<br>Extremity<br>10g SAR | Back          | 1.612                              | 0.487                   | 0.849                                | 0.436                                | 2.099               | 2.948 | 2.535 | 3.384        |
|                              | Front         | 1.640                              | 0.869                   | 0.582                                | 0.646*                               | 2.509               | 3.091 | 3.155 | <b>3.737</b> |
|                              | Top           | -                                  | 0.724                   | 0.849*                               | 0.646                                | 0.724               | 1.573 | 1.370 | 2.219        |
|                              | Bottom        | 3.281                              | -                       | -                                    | -                                    | 3.281               | 3.281 | 3.281 | 3.281        |
|                              | Right         | 0.760                              | 0.234                   | 0.849*                               | -                                    | 0.994               | 1.843 | 0.994 | 1.843        |
| Simult Tx                    | Configuration | LTE Band<br>13 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                 | 1+2+3 | 1+2+4 | 1+2+3+4      |
| UMPC<br>Extremity<br>10g SAR | Back          | 1.589                              | 0.487                   | 0.849                                | 0.436                                | 2.076               | 2.925 | 2.512 | 3.361        |
|                              | Front         | 1.715                              | 0.869                   | 0.582                                | 0.646*                               | 2.584               | 3.166 | 3.230 | <b>3.812</b> |
|                              | Top           | -                                  | 0.724                   | 0.849*                               | 0.646                                | 0.724               | 1.573 | 1.370 | 2.219        |
|                              | Bottom        | 0.983                              | -                       | -                                    | -                                    | 0.983               | 0.983 | 0.983 | 0.983        |
|                              | Right         | 1.226                              | 0.234                   | 0.849*                               | -                                    | 1.460               | 2.309 | 1.460 | 2.309        |
| Simult Tx                    | Configuration | LTE Band<br>66 (AWS)<br>SAR (W/kg) | Bluetooth<br>SAR (W/kg) | 5 GHz<br>WLAN Ant<br>1 SAR<br>(W/kg) | 5 GHz<br>WLAN Ant<br>2 SAR<br>(W/kg) | $\Sigma$ SAR (W/kg) |       |       |              |
|                              |               | 1                                  | 2                       | 3                                    | 4                                    | 1+2                 | 1+2+3 | 1+2+4 | 1+2+3+4      |
| UMPC<br>Extremity<br>10g SAR | Back          | 1.309                              | 0.487                   | 0.849                                | 0.436                                | 1.796               | 2.645 | 2.232 | 3.081        |
|                              | Front         | 1.334                              | 0.869                   | 0.582                                | 0.646*                               | 2.203               | 2.785 | 2.849 | <b>3.431</b> |
|                              | Top           | -                                  | 0.724                   | 0.849*                               | 0.646                                | 0.724               | 1.573 | 1.370 | 2.219        |
|                              | Bottom        | 3.292                              | -                       | -                                    | -                                    | 3.292               | 3.292 | 3.292 | 3.292        |
|                              | Right         | 0.693                              | 0.234                   | 0.849*                               | -                                    | 0.927               | 1.776 | 0.927 | 1.776        |

|                                                |                                                                                                                                   |                                      |                                                                                       |                                        |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMF900F                             |  <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                                                                           | <b>DUT Type:</b><br>Portable Handset | Page 156 of 176                                                                       |                                        |

| Simult Tx                    | Configuration | LTE Band<br>25 (PCS)<br>SAR (W/kg) | Bluetooth<br>SAR (W/kg) | 5 GHz<br>WLAN Ant<br>1 SAR<br>(W/kg) | 5 GHz<br>WLAN Ant<br>2 SAR<br>(W/kg) | $\Sigma$ SAR (W/kg) |       |       |              |
|------------------------------|---------------|------------------------------------|-------------------------|--------------------------------------|--------------------------------------|---------------------|-------|-------|--------------|
|                              |               | 1                                  | 2                       | 3                                    | 4                                    | 1+2                 | 1+2+3 | 1+2+4 | 1+2+3+4      |
| UMPC<br>Extremity<br>10g SAR | Back          | 1.613                              | 0.487                   | 0.849                                | 0.436                                | 2.100               | 2.949 | 2.536 | 3.385        |
|                              | Front         | 1.532                              | 0.869                   | 0.582                                | 0.646*                               | 2.401               | 2.983 | 3.047 | <b>3.629</b> |
|                              | Top           | -                                  | 0.724                   | 0.849*                               | 0.646                                | 0.724               | 1.573 | 1.370 | 2.219        |
|                              | Bottom        | 3.290                              | -                       | -                                    | -                                    | 3.290               | 3.290 | 3.290 | 3.290        |
|                              | Right         | 0.658                              | 0.234                   | 0.849*                               | -                                    | 0.892               | 1.741 | 0.892 | 1.741        |
| Simult Tx                    | Configuration | LTE Band<br>30 SAR<br>(W/kg)       | Bluetooth<br>SAR (W/kg) | 5 GHz<br>WLAN Ant<br>1 SAR<br>(W/kg) | 5 GHz<br>WLAN Ant<br>2 SAR<br>(W/kg) | $\Sigma$ SAR (W/kg) |       |       |              |
|                              |               | 1                                  | 2                       | 3                                    | 4                                    | 1+2                 | 1+2+3 | 1+2+4 | 1+2+3+4      |
| UMPC<br>Extremity<br>10g SAR | Back          | 0.951                              | 0.487                   | 0.849                                | 0.436                                | 1.438               | 2.287 | 1.874 | 2.723        |
|                              | Front         | 1.225                              | 0.869                   | 0.582                                | 0.646*                               | 2.094               | 2.676 | 2.740 | <b>3.322</b> |
|                              | Top           | -                                  | 0.724                   | 0.849*                               | 0.646                                | 0.724               | 1.573 | 1.370 | 2.219        |
|                              | Bottom        | 3.287                              | -                       | -                                    | -                                    | 3.287               | 3.287 | 3.287 | 3.287        |
|                              | Right         | 0.581                              | 0.234                   | 0.849*                               | -                                    | 0.815               | 1.664 | 0.815 | 1.664        |
| Simult Tx                    | Configuration | LTE Band<br>7 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                 | 1+2+3 | 1+2+4 | 1+2+3+4      |
| UMPC<br>Extremity<br>10g SAR | Back          | 0.713                              | 0.487                   | 0.849                                | 0.436                                | 1.200               | 2.049 | 1.636 | 2.485        |
|                              | Front         | 1.048                              | 0.869                   | 0.582                                | 0.646*                               | 1.917               | 2.499 | 2.563 | <b>3.145</b> |
|                              | Top           | -                                  | 0.724                   | 0.849*                               | 0.646                                | 0.724               | 1.573 | 1.370 | 2.219        |
|                              | Bottom        | 2.733                              | -                       | -                                    | -                                    | 2.733               | 2.733 | 2.733 | 2.733        |
|                              | Right         | 0.905                              | 0.234                   | 0.849*                               | -                                    | 1.139               | 1.988 | 1.139 | 1.988        |
| Simult Tx                    | Configuration | LTE Band<br>41 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                 | 1+2+3 | 1+2+4 | 1+2+3+4      |
| UMPC<br>Extremity<br>10g SAR | Back          | 1.354                              | 0.487                   | 0.849                                | 0.436                                | 1.841               | 2.690 | 2.277 | 3.126        |
|                              | Front         | 1.539                              | 0.869                   | 0.582                                | 0.646*                               | 2.408               | 2.990 | 3.054 | <b>3.636</b> |
|                              | Top           | -                                  | 0.724                   | 0.849*                               | 0.646                                | 0.724               | 1.573 | 1.370 | 2.219        |
|                              | Bottom        | 3.243                              | -                       | -                                    | -                                    | 3.243               | 3.243 | 3.243 | 3.243        |
|                              | Right         | 1.324                              | 0.234                   | 0.849*                               | -                                    | 1.558               | 2.407 | 1.558 | 2.407        |

|                                         |                                                                                     |                               |                                                                                       |                                        |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMF900F                      |  | <b>SAR EVALUATION REPORT</b>  |  | <b>Approved by:</b><br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset | Page 157 of 176                                                                       |                                        |

## 12.9 SPLSR Evaluation and Analysis

Per FCC KDB Publication 447498 D01v06, when the sum of the standalone transmitters is more than 1.6 W/kg for 1g and 4 W/kg for 10g, the SAR sum to peak locations can be analyzed to determine SAR distribution overlaps. When the SAR peak to location ratio (shown below) for each pair of antennas is  $\leq 0.04$  for 1g and  $\leq 0.10$  for 10g, simultaneous SAR evaluation is not required. The distance between the transmitters was calculated using the following formula.

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

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

### 12.9.1 UMPC Body Front Side at 10mm SPLSR Evaluation and Analysis

Table 12-22  
Peak SAR Locations for UMPC Body Front Side at 10mm

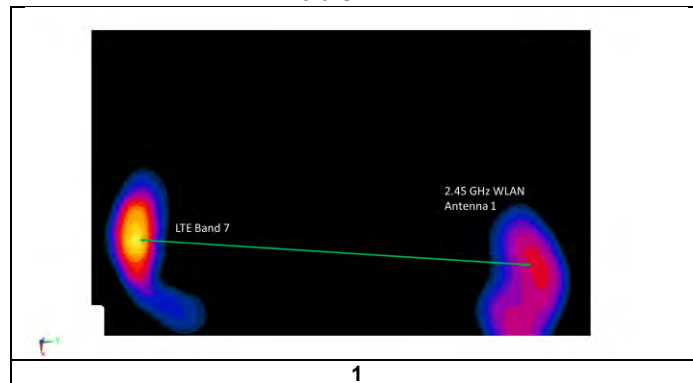
| Mode/Band          | x (mm) | y (mm) |
|--------------------|--------|--------|
| 2.4 GHz WLAN Ant 1 | 26.00  | 65.40  |
| LTE Band 7         | -3.40  | -81.00 |

Table 12-23  
UMPC Body Front Side at 10mm 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> |             |
| 2.4 GHz WLAN Ant 1 | LTE Band 7 | 0.421                 | 1.198 | 1.619                     | 149.32                            | 0.01                                   | 1           |

### 12.9.2 UMPC Body Front Side at 10mm SAR to Peak Location Separation Ratio Plots

Table 12-24



|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 158 of 176                 |

### 12.9.3 UMPC Body Back Side at 10mm SPLSR Evaluation and Analysis

**Table 12-25**  
**Peak SAR Locations for UMPC Body Back Side at 10mm**

| Mode/Band         | x (mm) | y (mm) |
|-------------------|--------|--------|
| 5 GHz WLAN Ant 1  | -46.00 | 74.00  |
| 5 GHz WLAN MIMO   | -44.00 | 78.00  |
| 2.4 GHz Bluetooth | -81.40 | 66.00  |
| GPRS 850          | -59.00 | -76.50 |
| GPRS 1900         | -41.50 | -80.00 |
| UMTS 1900         | -49.50 | -80.00 |
| LTE Band 30       | -52.60 | -82.80 |
| LTE Band 7        | -50.20 | -78.60 |
| LTE Band 41       | -50.10 | -80.40 |

|                                                |                                                                                                                                                  |                                      |                                                                                       |                                        |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| <b>FCC ID:</b> A3LSMF900F                      |  <b>PCTEST</b><br><small>ENGINEERING LABORATORY, INC.</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                                                                                          | <b>DUT Type:</b><br>Portable Handset | Page 159 of 176                                                                       |                                        |

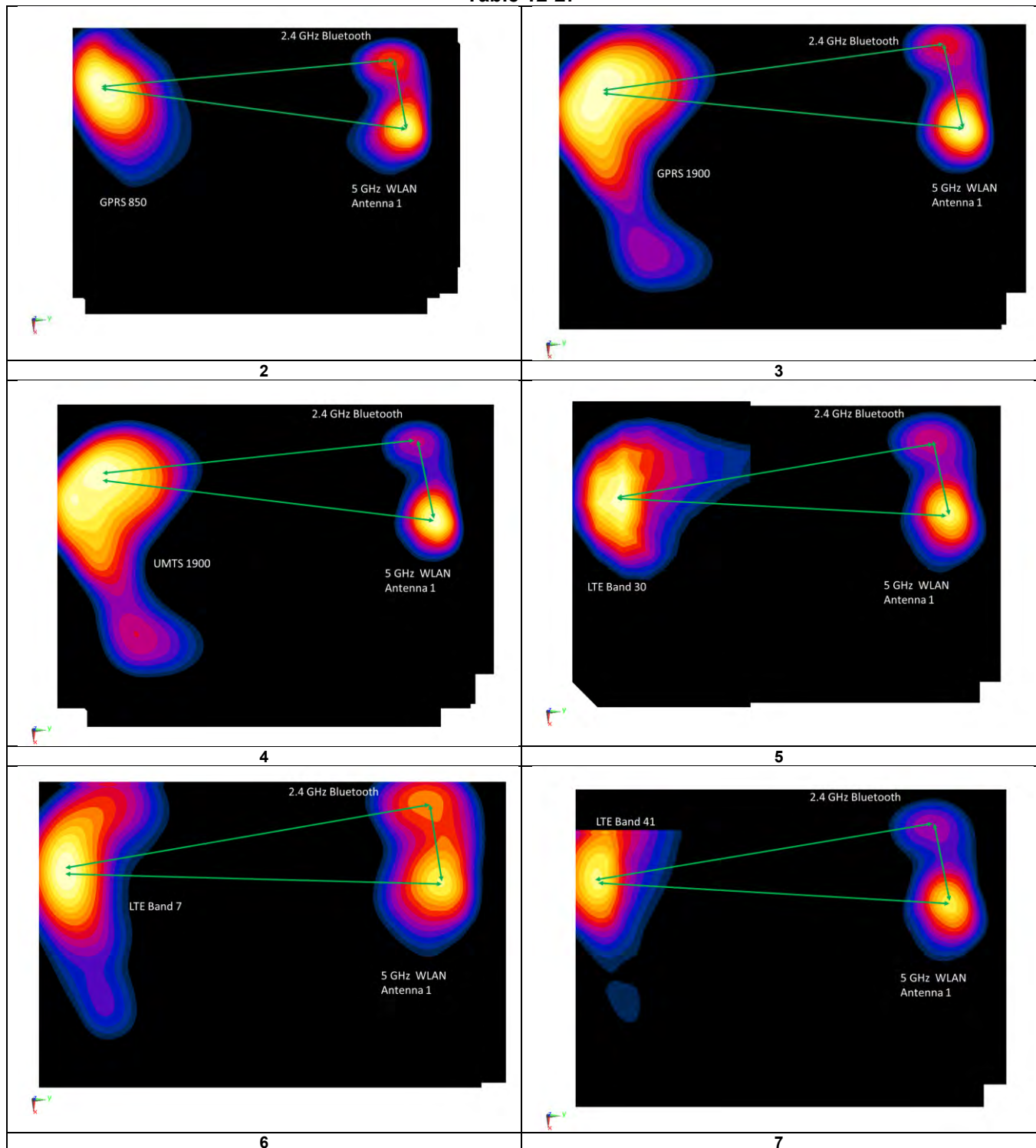
**Table 12-26**  
**UMPC Body Back Side at 10mm SAR to Peak Location Separation Ratio Calculations**

| 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>                  | $(a+b)^{1.5}/D_{a-b}$ |             |
| 5 GHz WLAN Ant 1  | GPRS 1900         | 0.742                 | 0.873 | 1.615                     | 154.07                            | 0.01                  | 3           |
| 5 GHz WLAN Ant 1  | UMTS 1900         | 0.742                 | 0.908 | 1.650                     | 154.04                            | 0.01                  | 4           |
| 5 GHz WLAN Ant 1  | LTE Band 30       | 0.742                 | 0.953 | 1.695                     | 156.94                            | 0.01                  | 5           |
| 5 GHz WLAN Ant 1  | LTE Band 7        | 0.742                 | 1.081 | 1.823                     | 152.66                            | 0.02                  | 6           |
| 5 GHz WLAN Ant 1  | LTE Band 41       | 0.742                 | 0.932 | 1.674                     | 154.45                            | 0.01                  | 7           |
| 5 GHz WLAN MIMO   | LTE Band 30       | 0.670                 | 0.953 | 1.623                     | 161.03                            | 0.01                  | 10          |
| 5 GHz WLAN MIMO   | LTE Band 7        | 0.670                 | 1.081 | 1.751                     | 156.72                            | 0.01                  | 11          |
| 5 GHz WLAN MIMO   | LTE Band 41       | 0.670                 | 0.932 | 1.602                     | 158.52                            | 0.01                  | 12          |
| 5 GHz WLAN Ant 1  | 2.4 GHz Bluetooth | 0.742                 | 0.084 | 0.826                     | 36.29                             | 0.02                  | 2           |
| 5 GHz WLAN Ant 1  | GPRS 850          | 0.742                 | 0.784 | 1.526                     | 151.06                            | 0.01                  |             |
| 2.4 GHz Bluetooth | GPRS 850          | 0.084                 | 0.784 | 0.868                     | 144.25                            | 0.01                  |             |
| 5 GHz WLAN Ant 1  | 2.4 GHz Bluetooth | 0.742                 | 0.084 | 0.826                     | 36.29                             | 0.02                  | 3           |
| 5 GHz WLAN Ant 1  | GPRS 1900         | 0.742                 | 0.873 | 1.615                     | 154.07                            | 0.01                  |             |
| 2.4 GHz Bluetooth | GPRS 1900         | 0.084                 | 0.873 | 0.957                     | 151.35                            | 0.01                  |             |
| 5 GHz WLAN Ant 1  | 2.4 GHz Bluetooth | 0.742                 | 0.084 | 0.826                     | 36.29                             | 0.02                  | 4           |
| 5 GHz WLAN Ant 1  | UMTS 1900         | 0.742                 | 0.908 | 1.650                     | 154.04                            | 0.01                  |             |
| 2.4 GHz Bluetooth | UMTS 1900         | 0.084                 | 0.908 | 0.992                     | 149.44                            | 0.01                  |             |
| 5 GHz WLAN Ant 1  | 2.4 GHz Bluetooth | 0.742                 | 0.084 | 0.826                     | 36.29                             | 0.02                  | 5           |
| 5 GHz WLAN Ant 1  | LTE Band 30       | 0.742                 | 0.953 | 1.695                     | 156.94                            | 0.01                  |             |
| 2.4 GHz Bluetooth | LTE Band 30       | 0.084                 | 0.953 | 1.037                     | 151.56                            | 0.01                  |             |
| 5 GHz WLAN Ant 1  | 2.4 GHz Bluetooth | 0.742                 | 0.084 | 0.826                     | 36.29                             | 0.02                  | 6           |
| 5 GHz WLAN Ant 1  | LTE Band 7        | 0.742                 | 1.081 | 1.823                     | 152.66                            | 0.02                  |             |
| 2.4 GHz Bluetooth | LTE Band 7        | 0.084                 | 1.081 | 1.165                     | 147.93                            | 0.01                  |             |
| 5 GHz WLAN Ant 1  | 2.4 GHz Bluetooth | 0.742                 | 0.084 | 0.826                     | 36.29                             | 0.02                  | 7           |
| 5 GHz WLAN Ant 1  | LTE Band 41       | 0.742                 | 0.932 | 1.674                     | 154.45                            | 0.01                  |             |
| 2.4 GHz Bluetooth | LTE Band 41       | 0.084                 | 0.932 | 1.016                     | 149.71                            | 0.01                  |             |
| 5 GHz WLAN MIMO   | 2.4 GHz Bluetooth | 0.670                 | 0.084 | 0.754                     | 39.28                             | 0.02                  | 8           |
| 5 GHz WLAN MIMO   | GPRS 1900         | 0.670                 | 0.873 | 1.543                     | 158.02                            | 0.01                  |             |
| 2.4 GHz Bluetooth | GPRS 1900         | 0.084                 | 0.873 | 0.957                     | 151.35                            | 0.01                  |             |
| 5 GHz WLAN MIMO   | 2.4 GHz Bluetooth | 0.670                 | 0.084 | 0.754                     | 39.28                             | 0.02                  | 9           |
| 5 GHz WLAN MIMO   | UMTS 1900         | 0.670                 | 0.908 | 1.578                     | 158.10                            | 0.01                  |             |
| 2.4 GHz Bluetooth | UMTS 1900         | 0.084                 | 0.908 | 0.992                     | 149.44                            | 0.01                  |             |
| 5 GHz WLAN MIMO   | 2.4 GHz Bluetooth | 0.670                 | 0.084 | 0.754                     | 39.28                             | 0.02                  | 10          |
| 5 GHz WLAN MIMO   | LTE Band 30       | 0.670                 | 0.953 | 1.623                     | 161.03                            | 0.01                  |             |
| 2.4 GHz Bluetooth | LTE Band 30       | 0.084                 | 0.953 | 1.037                     | 151.56                            | 0.01                  |             |
| 5 GHz WLAN MIMO   | 2.4 GHz Bluetooth | 0.670                 | 0.084 | 0.754                     | 39.28                             | 0.02                  | 11          |
| 5 GHz WLAN MIMO   | LTE Band 7        | 0.670                 | 1.081 | 1.751                     | 156.72                            | 0.01                  |             |
| 2.4 GHz Bluetooth | LTE Band 7        | 0.084                 | 1.081 | 1.165                     | 147.93                            | 0.01                  |             |
| 5 GHz WLAN MIMO   | 2.4 GHz Bluetooth | 0.670                 | 0.084 | 0.754                     | 39.28                             | 0.02                  | 12          |
| 5 GHz WLAN MIMO   | LTE Band 41       | 0.670                 | 0.932 | 1.602                     | 158.52                            | 0.01                  |             |
| 2.4 GHz Bluetooth | LTE Band 41       | 0.084                 | 0.932 | 1.016                     | 149.71                            | 0.01                  |             |

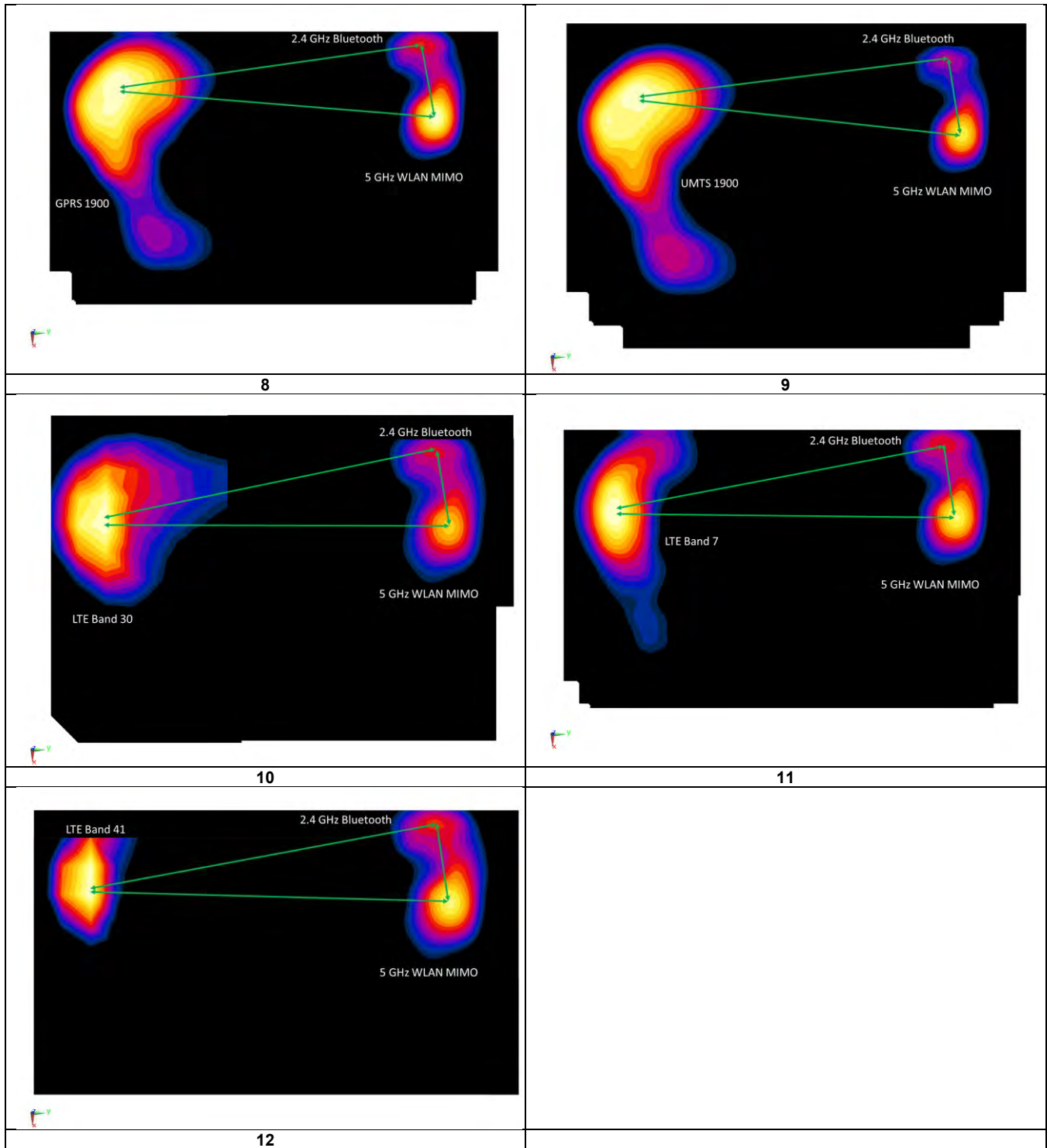
|                                                |                                                                                                                                   |                                      |                                                                                       |                                        |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMF900F                             |  <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                                                                           | <b>DUT Type:</b><br>Portable Handset | Page 160 of 176                                                                       |                                        |

## 12.9.4 UMPC Body Back Side at 10mm SAR to Peak Location Separation Ratio Plots

Table 12-27



|                                         |                                                                                                                                                                                                        |                               |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  <b>SAR EVALUATION REPORT</b>  |                               | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                                                                                                                                       | DUT Type:<br>Portable Handset | Page 161 of 176                 |



|                                         |                                                                                                                                                                                                        |                               |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  <b>SAR EVALUATION REPORT</b>  |                               | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                                                                                                                                       | DUT Type:<br>Portable Handset | Page 162 of 176                 |

## 12.9.5 UMPC Extremity Front Side at 0mm SPLSR Evaluation and Analysis

**Table 12-28**  
**Peak SAR Locations for UMPC Extremity Front Side at 0mm**

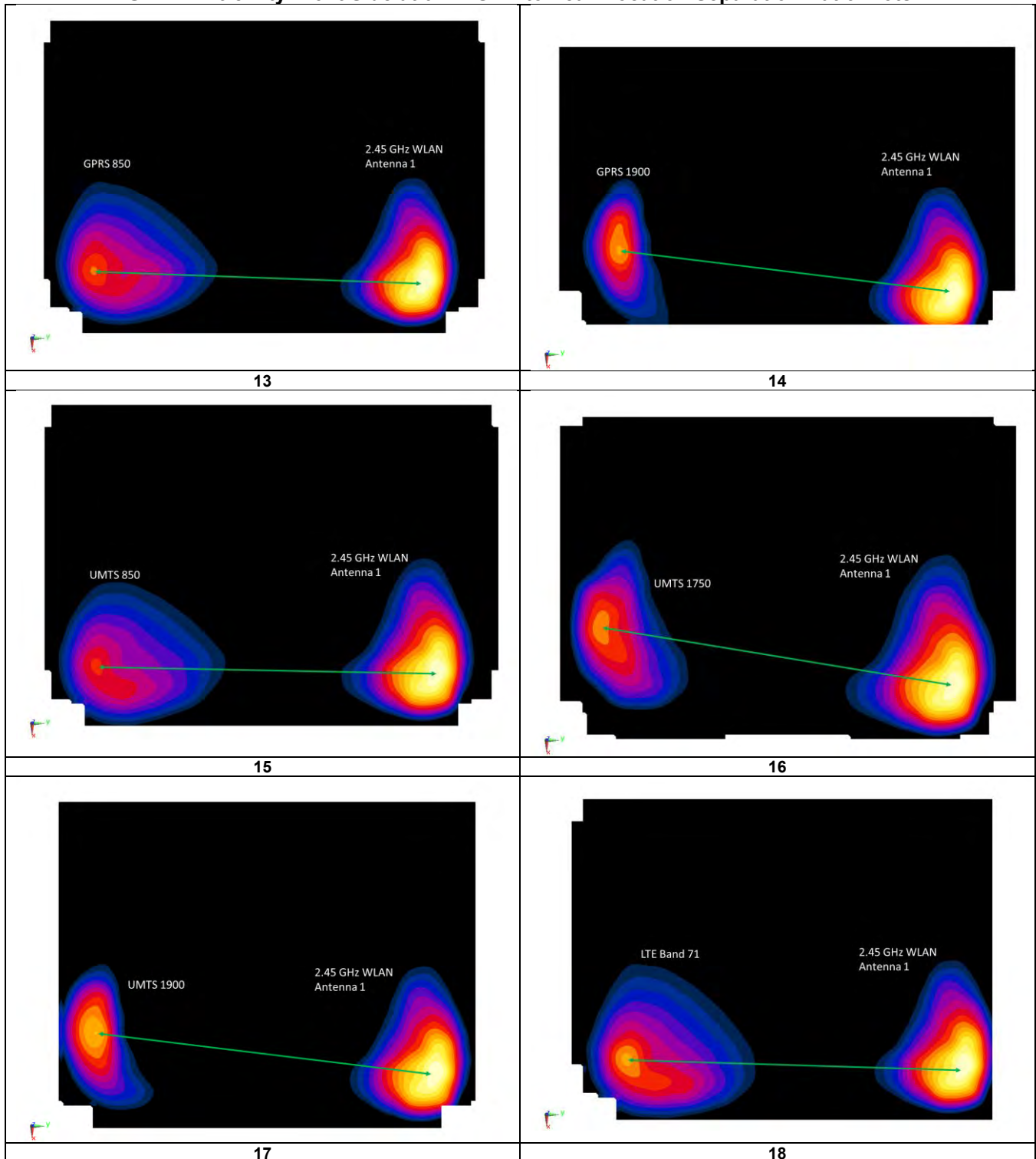
| Mode/Band          | x (mm) | y (mm) |
|--------------------|--------|--------|
| 2.4 GHz WLAN Ant 1 | 28.00  | 69.40  |
| GPRS 850           | 34.50  | -71.50 |
| GPRS 1900          | 11.50  | -75.00 |
| UMTS 850           | 36.00  | -71.50 |
| UMTS 1750          | 5.00   | -84.00 |
| UMTS 1900          | 13.00  | -76.50 |
| LTE Band 71        | 36.00  | -77.00 |
| LTE Band 12        | 36.00  | -77.00 |
| LTE Band 13        | 36.00  | -77.00 |
| LTE Band 14        | 36.00  | -77.00 |
| LTE Band 26 (Cell) | 38.50  | -75.00 |
| LTE Band 66 (AWS)  | 6.50   | -87.00 |
| LTE Band 25 (PCS)  | 10.00  | -69.50 |
| LTE Band 30        | -0.20  | -81.60 |
| LTE Band 7         | -1.00  | -79.20 |
| LTE Band 41        | -1.00  | -80.40 |

**Table 12-29**  
**UMPC Extremity Front Side at 0mm SAR to Peak Location Separation Ratio Calculations**

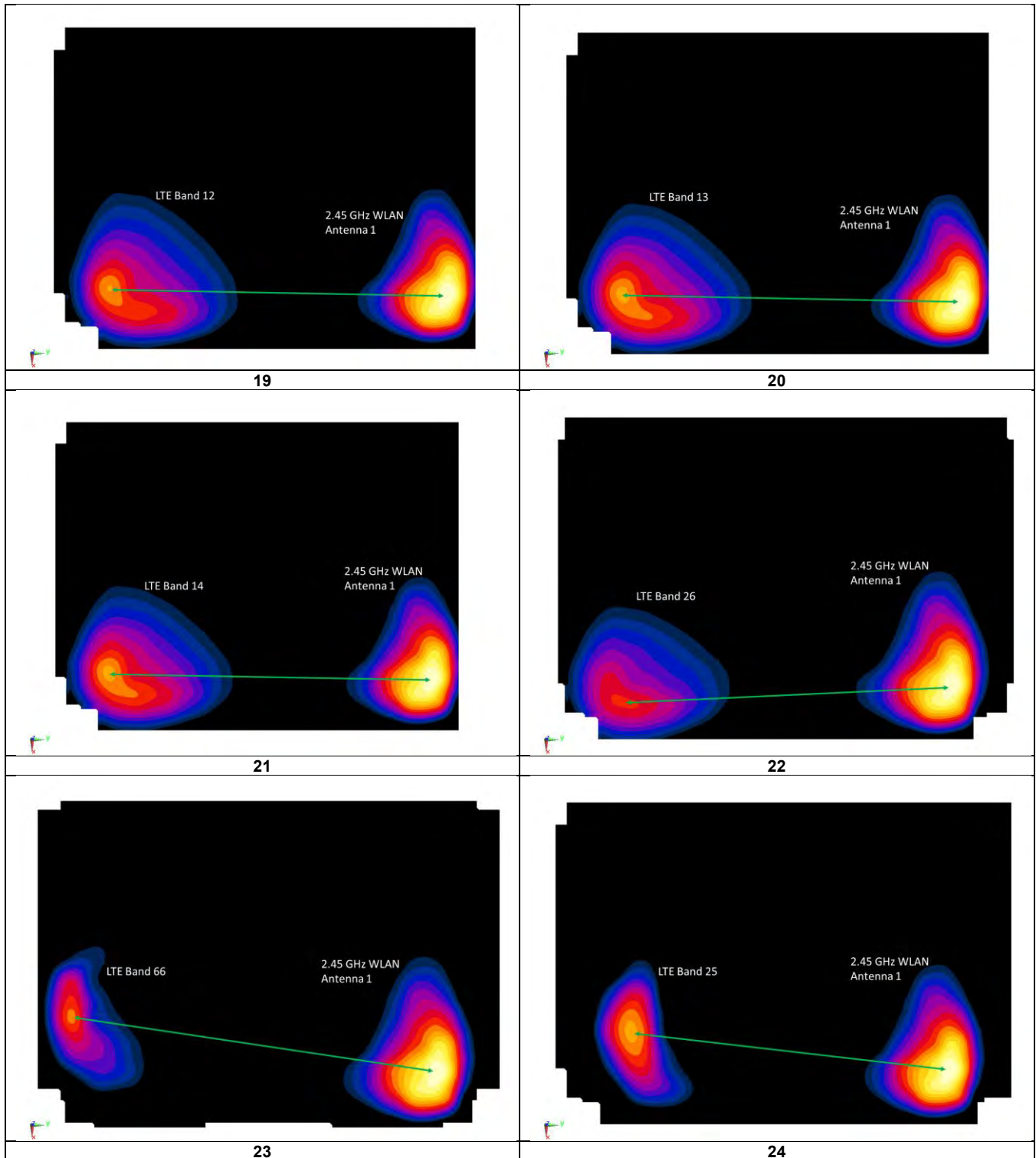
| Antenna Pair       |                    | Standalone SAR (W/kg) |       | Standalone SAR Sum (W/kg) | Peak SAR Separation Distance (mm) | SPLS Ratio            | Plot Number |
|--------------------|--------------------|-----------------------|-------|---------------------------|-----------------------------------|-----------------------|-------------|
| Ant "a"            | Ant "b"            | a                     | b     | a+b                       | D <sub>a-b</sub>                  | $(a+b)^{1.5}/D_{a-b}$ |             |
| 2.4 GHz WLAN Ant 1 | GPRS 850           | 3.185                 | 1.276 | 4.461                     | 141.05                            | 0.07                  | 13          |
| 2.4 GHz WLAN Ant 1 | GPRS 1900          | 3.185                 | 1.305 | 4.490                     | 145.34                            | 0.07                  | 14          |
| 2.4 GHz WLAN Ant 1 | UMTS 850           | 3.185                 | 1.009 | 4.194                     | 141.13                            | 0.06                  | 15          |
| 2.4 GHz WLAN Ant 1 | UMTS 1750          | 3.185                 | 1.375 | 4.560                     | 155.11                            | 0.06                  | 16          |
| 2.4 GHz WLAN Ant 1 | UMTS 1900          | 3.185                 | 1.640 | 4.825                     | 146.67                            | 0.07                  | 17          |
| 2.4 GHz WLAN Ant 1 | LTE Band 71        | 3.185                 | 1.311 | 4.496                     | 146.62                            | 0.07                  | 18          |
| 2.4 GHz WLAN Ant 1 | LTE Band 12        | 3.185                 | 1.436 | 4.621                     | 146.62                            | 0.07                  | 19          |
| 2.4 GHz WLAN Ant 1 | LTE Band 13        | 3.185                 | 1.715 | 4.900                     | 146.62                            | 0.07                  | 20          |
| 2.4 GHz WLAN Ant 1 | LTE Band 14        | 3.185                 | 1.621 | 4.806                     | 146.62                            | 0.07                  | 21          |
| 2.4 GHz WLAN Ant 1 | LTE Band 26 (Cell) | 3.185                 | 0.907 | 4.092                     | 144.78                            | 0.06                  | 22          |
| 2.4 GHz WLAN Ant 1 | LTE Band 66 (AWS)  | 3.185                 | 1.334 | 4.519                     | 157.87                            | 0.06                  | 23          |
| 2.4 GHz WLAN Ant 1 | LTE Band 25 (PCS)  | 3.185                 | 1.532 | 4.717                     | 140.06                            | 0.07                  | 24          |
| 2.4 GHz WLAN Ant 1 | LTE Band 30        | 3.185                 | 1.225 | 4.410                     | 153.61                            | 0.06                  | 25          |
| 2.4 GHz WLAN Ant 1 | LTE Band 7         | 3.185                 | 1.048 | 4.233                     | 151.40                            | 0.06                  | 26          |
| 2.4 GHz WLAN Ant 1 | LTE Band 41        | 3.185                 | 1.539 | 4.724                     | 152.58                            | 0.07                  | 27          |

|                                         |                                                                                     |                               |  |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|--|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |  |                                                                                       | Page 163 of 176                 |

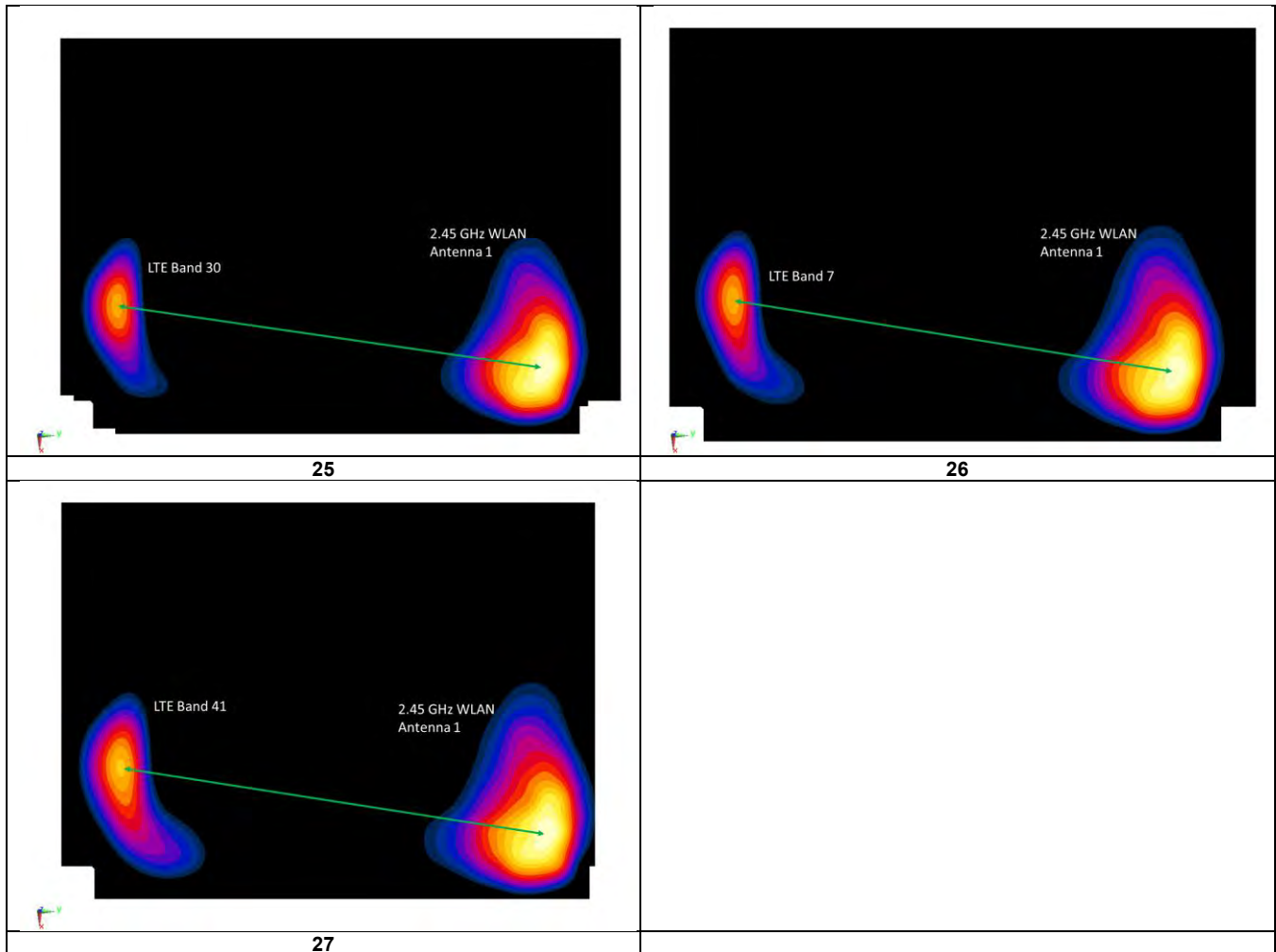
**Table 12-30**  
**UMPC Extremity Front Side at 0mm SAR to Peak Location Separation Ratio Plots**



|                                                |                                                                                     |                                      |                                                                                       |                                        |
|------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMF900F                             |  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                             | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 164 of 176                        |



|                                         |                                                                                                                                                                                                        |                               |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  <b>SAR EVALUATION REPORT</b>  |                               | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                                                                                                                                       | DUT Type:<br>Portable Handset | Page 165 of 176                 |



## 12.10 Simultaneous Transmission Conclusion

The above numerical summed SAR results and SPLSR analysis are sufficient to determine that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D01v06 and IEEE 1528- 2013 Section 6.3.4.1.

|                                         |                                                                                                                                                                                                        |                               |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  <b>SAR EVALUATION REPORT</b>  |                               | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                                                                                                                                       | DUT Type:<br>Portable Handset | Page 166 of 176                 |

## 13 SAR MEASUREMENT VARIABILITY

### 13.1 Measurement Variability

Per FCC KDB Publication 865664 D01v01r04, SAR measurement variability was assessed for each frequency band, which was determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media were required for SAR measurements in a frequency band, the variability measurement procedures were applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. These additional measurements were repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device was returned to ambient conditions (normal room temperature) with the battery fully charged before it was re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR Measurement Variability was assessed using the following procedures for each frequency band:

- 1) When the original highest measured SAR is  $\geq 0.80$  W/kg, the measurement was repeated once.
- 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was  $> 1.20$  or when the original or repeated measurement was  $\geq 1.45$  W/kg ( $\sim 10\%$  from the 1g SAR limit).
- 3) A third repeated measurement was performed only if the original, first or second repeated measurement was  $\geq 1.5$  W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is  $> 1.20$ .
- 4) Repeated measurements are not required when the original highest measured SAR is  $< 0.80$  W/kg
- 5) When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

**Table 13-1**  
**Body SAR Measurement Variability Results 1g**

| BODY VARIABILITY RESULTS                 |                   |           |        |          |                                     |                           |        |         |                      |                       |       |                       |       |                       |       |
|------------------------------------------|-------------------|-----------|--------|----------|-------------------------------------|---------------------------|--------|---------|----------------------|-----------------------|-------|-----------------------|-------|-----------------------|-------|
| Band                                     | Component Carrier | FREQUENCY |        | DUT Mode | Mode                                | Service                   | Side   | Spacing | Measured SAR (1g)    | 1st Repeated SAR (1g) | Ratio | 2nd Repeated SAR (1g) | Ratio | 3rd Repeated SAR (1g) | Ratio |
|                                          |                   | MHz       | Ch.    |          |                                     |                           |        |         | (W/kg)               | (W/kg)                |       | (W/kg)                |       | (W/kg)                |       |
| 1900                                     | N/A               | 1907.60   | 9538   | UMPC     | UMTS 1900                           | RMC                       | bottom | 13 mm   | 1.050                | 0.995                 | 1.06  | N/A                   | N/A   | N/A                   | N/A   |
| 1750                                     | PCC               | 1770.00   | 132572 | Handset  | LTE Band 66 (AWS), 20 MHz Bandwidth | QPSK, 50 RB, 0 RB Offset  | bottom | 10 mm   | 0.830                | 0.831                 | 1.00  | N/A                   | N/A   | N/A                   | N/A   |
|                                          | SCC               | 1750.20   | 132374 |          |                                     | QPSK, 50 RB, 50 RB Offset |        |         |                      |                       |       | N/A                   | N/A   | N/A                   | N/A   |
| 2300                                     | N/A               | 2310.00   | 27710  | UMPC     | LTE Band 30, 10 MHz Bandwidth       | QPSK, 1 RB, 0 RB Offset   | bottom | 13 mm   | 0.998                | 0.955                 | 1.05  | N/A                   | N/A   | N/A                   | N/A   |
| 2450                                     | N/A               | 2510.00   | 20850  | UMPC     | LTE Band 7, 20 MHz Bandwidth        | QPSK, 1 RB, 99 RB Offset  | bottom | 13 mm   | 1.100                | 1.140                 | 1.04  | N/A                   | N/A   | N/A                   | N/A   |
| 2600                                     | N/A               | 2560.00   | 21350  | UMPC     | LTE Band 7, 20 MHz Bandwidth        | QPSK, 1 RB, 0 RB Offset   | bottom | 13 mm   | 1.230                | 1.200                 | 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 |                       |       |                       |       |                       |       |

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 167 of 176                 |

**Table 13-2**  
**Body SAR Measurement Variability Results 10g**

| EXTREMITY VARIABILITY RESULTS                                                                     |                   |           |        |          |                                     |                           |                  |        |                                                        |                    |                        |       |                        |       |                        |       |
|---------------------------------------------------------------------------------------------------|-------------------|-----------|--------|----------|-------------------------------------|---------------------------|------------------|--------|--------------------------------------------------------|--------------------|------------------------|-------|------------------------|-------|------------------------|-------|
| Band                                                                                              | Component Carrier | FREQUENCY |        | Dut Mode | Mode                                | Service                   | Data Rate (Mbps) | Side   | Spacing                                                | Measured SAR (10g) | 1st Repeated SAR (10g) | Ratio | 2nd Repeated SAR (10g) | Ratio | 3rd Repeated SAR (10g) | Ratio |
|                                                                                                   |                   | MHz       | Ch.    |          |                                     |                           |                  |        |                                                        | (W/kg)             | (W/kg)                 |       | (W/kg)                 |       | (W/kg)                 |       |
| 1750                                                                                              | PCC               | 1770.00   | 132572 | UMPC     | LTE Band 66 (AWS), 20 MHz Bandwidth | QPSK, 50 RB, 0 RB Offset  | N/A              | bottom | 0 mm                                                   | 2.900              | 2.900                  | 1.00  | N/A                    | N/A   | N/A                    | N/A   |
|                                                                                                   | SCC               | 1750.20   | 132374 |          |                                     | QPSK, 50 RB, 50 RB Offset |                  |        |                                                        |                    |                        |       |                        |       |                        |       |
| 1900                                                                                              | N/A               | 1882.50   | 26365  | UMPC     | LTE Band 25 (PCS), 20 MHz Bandwidth | QPSK, 50 RB, 0 RB Offset  | N/A              | bottom | 0 mm                                                   | 3.200              | 3.200                  | 1.00  | N/A                    | N/A   | N/A                    | N/A   |
| 2300                                                                                              | N/A               | 2310.00   | 27710  | UMPC     | LTE Band 30, 10 MHz Bandwidth       | QPSK, 25 RB, 12 RB Offset | N/A              | bottom | 0 mm                                                   | 2.790              | 2.780                  | 1.00  | N/A                    | N/A   | N/A                    | N/A   |
| 2600                                                                                              | PCC               | 2560.00   | 21350  | UMPC     | LTE Band 7, 20 MHz Bandwidth        | QPSK, 50 RB, 0 RB Offset  | N/A              | bottom | 0 mm                                                   | 2.540              | 2.510                  | 1.01  | N/A                    | N/A   | N/A                    | N/A   |
|                                                                                                   | SCC               | 2540.20   | 21152  |          |                                     | QPSK, 50 RB, 50 RB Offset | N/A              |        |                                                        |                    |                        |       |                        |       |                        |       |
| 2450                                                                                              | N/A               | 2412.00   | 1      | UMPC     | 802.11b, 22 MHz Bandwidth           | DSSS , ANT 1              | 1                | front  | 0 mm                                                   | 3.160              | 3.030                  | 1.04  | N/A                    | N/A   | N/A                    | N/A   |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |                   |           |        |          |                                     |                           |                  |        | Extremity<br>4.0 W/kg (mW/g)<br>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: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 168 of 176                 |

## 14 ADDITIONAL TESTING PER FCC GUIDANCE

### 14.1 Tuner Testing

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. 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 80 tuner states were divided among the aggregate band, mode and exposure combinations so that each combination was evaluated for at least 20 tuner states and also so that at least 3 single point SAR measurements were made for every available tuner state. 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 80 states.

Per FCC Guidance, several bands/modes were combined to be treated as a single aggregate band. LTE bands 12 and 13 were considered as an aggregated band to select single point measurement configurations. The wireless configuration and exposure condition combinations were divided evenly among the two bands (i.e., the number of required single point measurements (at least 20) apply to the aggregated band). All other bands were treated independently.

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

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 169 of 176                 |

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

| Supplemental Head SAR Data         |             |                                           |             |                                            |             |                                            |             |                                           |             |                                           |             |
|------------------------------------|-------------|-------------------------------------------|-------------|--------------------------------------------|-------------|--------------------------------------------|-------------|-------------------------------------------|-------------|-------------------------------------------|-------------|
| UMTS 850                           |             | LTE Band 71                               |             | LTE Band 12                                |             | LTE Band 13                                |             | LTE Band 14                               |             | LTE Band 26                               |             |
| RMC                                |             | QPSK, 20MHz Bandwidth, 1 RB, 0 RB Offsets |             | QPSK, 10MHz Bandwidth, 1 RB, 25 RB Offsets |             | QPSK, 10MHz Bandwidth, 1 RB, 49 RB Offsets |             | QPSK, 10MHz Bandwidth, 1 RB, 0 RB Offsets |             | QPSK, 15MHz Bandwidth, 1 RB, 0 RB Offsets |             |
| Test Position                      | Right Cheek | Test Position                             | Right Cheek | Test Position                              | Right Cheek | Test Position                              | Right Cheek | Test Position                             | Right Cheek | Test Position                             | Right Cheek |
| Frequency (MHz)                    | 836.60      | Frequency (MHz)                           | 680.50      | Frequency (MHz)                            | 707.50      | Frequency (MHz)                            | 782.00      | Frequency (MHz)                           | 793.00      | Frequency (MHz)                           | 831.50      |
| Channel                            | 4183        | Channel                                   | 133297      | Channel                                    | 23095       | Channel                                    | 23230       | Channel                                   | 23330       | Channel                                   | 26865       |
| Measured 1g SAR (W/kg)             | 0.319       | Measured 1g SAR (W/kg)                    | 0.165       | Measured 1g SAR (W/kg)                     | 0.190       | Measured 1g SAR (W/kg)                     | 0.175       | Measured 1g SAR (W/kg)                    | 0.193       | Measured 1g SAR (W/kg)                    | 0.285       |
| Average Value of Time Sweep (W/kg) |             | Average Value of Time Sweep (W/kg)        |             | Average Value of Time Sweep (W/kg)         |             | Average Value of Time Sweep (W/kg)         |             | Average Value of Time Sweep (W/kg)        |             | Average Value of Time Sweep (W/kg)        |             |
| Auto-tune (State 0)                | 0.387       | Auto-tune (State 40)                      | 0.236       | Auto-tune (State 33)                       | 0.249       | Auto-tune (State 32)                       | 0.255       | Auto-tune (State 32)                      | 0.275       | Auto-tune (State 0)                       | 0.42        |
| Default (State 0)                  | 0.388       | Default (State 32)                        | 0.200       | Default (State 32)                         | 0.245       | Default (State 32)                         | 0.258       | Default (State 32)                        | 0.272       | Default (State 0)                         | 0.406       |
| State 0                            | 0.388       | State 0                                   | 0.163       | State 4                                    | 0.108       | State 0                                    | 0.193       | State 0                                   | 0.211       | State 0                                   | 0.406       |
| State 1                            | 0.387       | State 4                                   | 0.113       | State 7                                    | 0.085       | State 2                                    | 0.143       | State 3                                   | 0.147       | State 2                                   | 0.354       |
| State 4                            | 0.311       | State 8                                   | 0.090       | State 9                                    | 0.067       | State 9                                    | 0.085       | State 5                                   | 0.137       | State 5                                   | 0.342       |
| State 7                            | 0.276       | State 14                                  | 0.025       | State 13                                   | 0.025       | State 15                                   | 0.017       | State 7                                   | 0.117       | State 9                                   | 0.282       |
| State 9                            | 0.235       | State 16                                  | 0.069       | State 17                                   | 0.074       | State 16                                   | 0.116       | State 11                                  | 0.060       | State 12                                  | 0.178       |
| State 12                           | 0.134       | State 18                                  | 0.045       | State 20                                   | 0.052       | State 17                                   | 0.118       | State 12                                  | 0.042       | State 14                                  | 0.126       |
| State 13                           | 0.112       | State 19                                  | 0.042       | State 23                                   | 0.041       | State 19                                   | 0.079       | State 15                                  | 0.017       | State 17                                  | 0.155       |
| State 17                           | 0.203       | State 25                                  | 0.024       | State 25                                   | 0.032       | State 21                                   | 0.074       | State 16                                  | 0.129       | State 22                                  | 0.093       |
| State 19                           | 0.133       | State 28                                  | 0.010       | State 27                                   | 0.019       | State 27                                   | 0.030       | State 19                                  | 0.086       | State 25                                  | 0.073       |
| State 20                           | 0.129       | State 30                                  | 0.005       | State 29                                   | 0.009       | State 29                                   | 0.017       | State 23                                  | 0.067       | State 26                                  | 0.061       |
| State 23                           | 0.103       | State 32                                  | 0.200       | State 33                                   | 0.243       | State 30                                   | 0.013       | State 24                                  | 0.063       | State 28                                  | 0.038       |
| State 26                           | 0.065       | State 35                                  | 0.221       | State 36                                   | 0.199       | State 32                                   | 0.258       | State 26                                  | 0.041       | State 34                                  | 0.401       |
| State 30                           | 0.022       | State 38                                  | 0.225       | State 40                                   | 0.172       | State 37                                   | 0.182       | State 32                                  | 0.272       | State 38                                  | 0.360       |
| State 34                           | 0.378       | State 40                                  | 0.227       | State 42                                   | 0.130       | State 39                                   | 0.158       | State 36                                  | 0.195       | State 40                                  | 0.335       |
| State 37                           | 0.383       | State 41                                  | 0.210       | State 44                                   | 0.085       | State 42                                   | 0.105       | State 39                                  | 0.163       | State 42                                  | 0.251       |
| State 39                           | 0.354       | State 45                                  | 0.107       | State 46                                   | 0.055       | State 43                                   | 0.085       | State 41                                  | 0.131       | State 44                                  | 0.156       |
| State 41                           | 0.305       | State 46                                  | 0.081       | State 49                                   | 0.153       | State 45                                   | 0.053       | State 45                                  | 0.052       | State 46                                  | 0.094       |
| State 43                           | 0.221       | State 47                                  | 0.056       | State 51                                   | 0.115       | State 47                                   | 0.028       | State 49                                  | 0.198       | State 49                                  | 0.324       |
| State 48                           | 0.331       | State 50                                  | 0.142       | State 54                                   | 0.099       | State 48                                   | 0.188       | State 52                                  | 0.133       | State 53                                  | 0.263       |
| State 52                           | 0.256       | State 56                                  | 0.114       | State 57                                   | 0.075       | State 55                                   | 0.109       | State 55                                  | 0.109       | State 57                                  | 0.209       |
| State 56                           | 0.213       | State 59                                  | 0.071       | State 61                                   | 0.029       | State 57                                   | 0.080       | State 57                                  | 0.086       | State 60                                  | 0.127       |
| State 60                           | 0.099       | State 62                                  | 0.037       | State 62                                   | 0.022       | State 63                                   | 0.016       | State 61                                  | 0.032       | State 62                                  | 0.087       |
| State 67                           | 0.327       | State 67                                  | 0.205       | State 67                                   | 0.151       | State 66                                   | 0.256       | State 66                                  | 0.273       | State 66                                  | 0.391       |
| State 68                           | 0.383       | State 68                                  | 0.195       | State 68                                   | 0.145       | State 69                                   | 0.122       | State 69                                  | 0.133       | State 69                                  | 0.161       |
| State 71                           | 0.331       | State 72                                  | 0.193       | State 72                                   | 0.145       | State 72                                   | 0.201       | State 73                                  | 0.132       | State 73                                  | 0.162       |
| State 75                           | 0.332       | State 76                                  | 0.188       | State 76                                   | 0.145       | State 76                                   | 0.199       | State 77                                  | 0.131       | State 77                                  | 0.163       |

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 170 of 176                 |

**Table 14-2**  
**UMTS/LTE Supplemental Body SAR Data**

| Supplemental Body SAR Data         |                                  |                                           |                                  |                                            |                                  |                                            |                                   |                                           |                                   |                                           |                                  |
|------------------------------------|----------------------------------|-------------------------------------------|----------------------------------|--------------------------------------------|----------------------------------|--------------------------------------------|-----------------------------------|-------------------------------------------|-----------------------------------|-------------------------------------------|----------------------------------|
| UMTS 850                           |                                  | LTE Band 71                               |                                  | LTE Band 12                                |                                  | LTE Band 13                                |                                   | LTE Band 14                               |                                   | LTE Band 26                               |                                  |
| RMC                                |                                  | QPSK, 20MHz Bandwidth, 1 RB, 0 RB Offsets |                                  | QPSK, 10MHz Bandwidth, 1 RB, 25 RB Offsets |                                  | QPSK, 10MHz Bandwidth, 1 RB, 49 RB Offsets |                                   | QPSK, 10MHz Bandwidth, 1 RB, 0 RB Offsets |                                   | QPSK, 15MHz Bandwidth, 1 RB, 0 RB Offsets |                                  |
| Test Position                      | Right Edge Handset Configuration | Test Position                             | Right Edge Handset Configuration | Test Position                              | Right Edge Handset Configuration | Test Position                              | Back Side UMPC Body Configuration | Test Position                             | Back Side UMPC Body Configuration | Test Position                             | Right Edge Handset Configuration |
| Spacing                            | 10 mm                            | Spacing                                   | 10 mm                            | Spacing                                    | 10 mm                            | Spacing                                    | 10 mm                             | Spacing                                   | 10 mm                             | Spacing                                   | 10 mm                            |
| Frequency (MHz)                    | 836.60                           | Frequency (MHz)                           | 680.50                           | Frequency (MHz)                            | 707.50                           | Frequency (MHz)                            | 782.00                            | Frequency (MHz)                           | 793.00                            | Frequency (MHz)                           | 831.50                           |
| Channel                            | 4183                             | Channel                                   | 133297                           | Channel                                    | 23095                            | Channel                                    | 23230                             | Channel                                   | 23330                             | Channel                                   | 26865                            |
| Measured 1g SAR (W/kg)             | 0.382                            | Measured 1g SAR (W/kg)                    | 0.582                            | Measured 1g SAR (W/kg)                     | 0.698                            | Measured 1g SAR (W/kg)                     | 0.495                             | Measured 1g SAR (W/kg)                    | 0.496                             | Measured 1g SAR (W/kg)                    | 0.479                            |
| Average Value of Time Sweep (W/kg) |                                  | Average Value of Time Sweep (W/kg)        |                                  | Average Value of Time Sweep (W/kg)         |                                  | Average Value of Time Sweep (W/kg)         |                                   | Average Value of Time Sweep (W/kg)        |                                   | Average Value of Time Sweep (W/kg)        |                                  |
| Auto-tune (State 0)                | 0.688                            | Auto-tune (State 34)                      | 0.719                            | Auto-tune (State 32)                       | 0.855                            | Auto-tune (State 78)                       | 0.744                             | Auto-tune (State 32)                      | 0.737                             | Auto-tune (State 0)                       | 0.641                            |
| Default (State 0)                  | 0.684                            | Default (State 32)                        | 0.741                            | Default (State 32)                         | 0.821                            | Default (State 32)                         | 0.774                             | Default (State 32)                        | 0.719                             | Default (State 0)                         | 0.646                            |
| State 0                            | 0.684                            | State 2                                   | 0.431                            | State 3                                    | 0.475                            | State 0                                    | 0.593                             | State 1                                   | 0.539                             | State 0                                   | 0.646                            |
| State 1                            | 0.683                            | State 7                                   | 0.330                            | State 5                                    | 0.456                            | State 1                                    | 0.593                             | State 5                                   | 0.382                             | State 2                                   | 0.592                            |
| State 3                            | 0.593                            | State 8                                   | 0.310                            | State 8                                    | 0.382                            | State 5                                    | 0.434                             | State 8                                   | 0.324                             | State 4                                   | 0.579                            |
| State 6                            | 0.545                            | State 14                                  | 0.082                            | State 10                                   | 0.275                            | State 6                                    | 0.402                             | State 10                                  | 0.235                             | State 6                                   | 0.548                            |
| State 7                            | 0.526                            | State 15                                  | 0.058                            | State 14                                   | 0.101                            | State 11                                   | 0.226                             | State 15                                  | 0.072                             | State 9                                   | 0.478                            |
| State 10                           | 0.398                            | State 18                                  | 0.194                            | State 17                                   | 0.377                            | State 13                                   | 0.146                             | State 19                                  | 0.178                             | State 12                                  | 0.299                            |
| State 11                           | 0.339                            | State 24                                  | 0.134                            | State 20                                   | 0.273                            | State 18                                   | 0.212                             | State 21                                  | 0.168                             | State 15                                  | 0.150                            |
| State 13                           | 0.222                            | State 27                                  | 0.069                            | State 21                                   | 0.261                            | State 22                                   | 0.171                             | State 24                                  | 0.135                             | State 17                                  | 0.289                            |
| State 16                           | 0.373                            | State 31                                  | 0.020                            | State 24                                   | 0.211                            | State 27                                   | 0.082                             | State 27                                  | 0.072                             | State 18                                  | 0.216                            |
| State 21                           | 0.240                            | State 33                                  | 0.739                            | State 26                                   | 0.140                            | State 29                                   | 0.049                             | State 29                                  | 0.043                             | State 22                                  | 0.180                            |
| State 24                           | 0.195                            | State 34                                  | 0.753                            | State 30                                   | 0.048                            | State 35                                   | 0.687                             | State 32                                  | 0.719                             | State 23                                  | 0.172                            |
| State 25                           | 0.162                            | State 36                                  | 0.686                            | State 32                                   | 0.821                            | State 38                                   | 0.631                             | State 34                                  | 0.649                             | State 29                                  | 0.063                            |
| State 28                           | 0.079                            | State 39                                  | 0.612                            | State 33                                   | 0.838                            | State 40                                   | 0.599                             | State 37                                  | 0.619                             | State 31                                  | 0.036                            |
| State 31                           | 0.034                            | State 41                                  | 0.524                            | State 36                                   | 0.706                            | State 41                                   | 0.534                             | State 40                                  | 0.039                             | State 39                                  | 0.445                            |
| State 33                           | 0.675                            | State 44                                  | 0.289                            | State 38                                   | 0.652                            | State 45                                   | 0.271                             | State 43                                  | 0.025                             | State 42                                  | 0.309                            |
| State 35                           | 0.652                            | State 46                                  | 0.183                            | State 40                                   | 0.612                            | State 47                                   | 0.157                             | State 44                                  | 0.020                             | State 45                                  | 0.149                            |
| State 36                           | 0.643                            | State 51                                  | 0.435                            | State 44                                   | 0.289                            | State 50                                   | 0.429                             | State 48                                  | 0.487                             | State 49                                  | 0.544                            |
| State 44                           | 0.242                            | State 54                                  | 0.380                            | State 50                                   | 0.516                            | State 58                                   | 0.243                             | State 49                                  | 0.490                             | State 52                                  | 0.465                            |
| State 51                           | 0.487                            | State 57                                  | 0.290                            | State 51                                   | 0.502                            | State 59                                   | 0.202                             | State 54                                  | 0.318                             | State 53                                  | 0.454                            |
| State 53                           | 0.471                            | State 58                                  | 0.241                            | State 55                                   | 0.421                            | State 60                                   | 0.154                             | State 56                                  | 0.292                             | State 55                                  | 0.419                            |
| State 56                           | 0.410                            | State 59                                  | 0.200                            | State 62                                   | 0.106                            | State 61                                   | 0.127                             | State 60                                  | 0.135                             | State 58                                  | 0.319                            |
| State 59                           | 0.257                            | State 62                                  | 0.095                            | State 63                                   | 0.074                            | State 64                                   | 0.577                             | State 61                                  | 0.112                             | State 61                                  | 0.187                            |
| State 65                           | 0.376                            | State 65                                  | 0.277                            | State 65                                   | 0.372                            | State 71                                   | 0.523                             | State 64                                  | 0.037                             | State 63                                  | 0.109                            |
| State 70                           | 0.681                            | State 70                                  | 0.744                            | State 70                                   | 0.831                            | State 74                                   | 0.759                             | State 71                                  | 0.034                             | State 64                                  | 0.638                            |
| State 73                           | 0.377                            | State 74                                  | 0.743                            | State 74                                   | 0.833                            | State 78                                   | 0.773                             | State 75                                  | 0.034                             | State 75                                  | 0.535                            |
| State 77                           | 0.375                            | State 78                                  | 0.745                            | State 78                                   | 0.839                            | State 79                                   | 0.530                             | State 79                                  | 0.034                             | State 79                                  | 0.536                            |

|                                                |                                                                                     |                                      |                                                                                       |                                        |
|------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMF900F                             |  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                             | <b>DUT Type:</b><br>Portable Handset | Page 171 of 176                                                                       |                                        |

# 15 EQUIPMENT LIST

| Manufacturer          | Model           | Description                                             | Cal Date   | Cal Interval | Cal Due    | Serial Number |
|-----------------------|-----------------|---------------------------------------------------------|------------|--------------|------------|---------------|
| Agilent               | 8594A           | (9kHz-2.9GHz) Spectrum Analyzer                         | CBT        | N/A          | CBT        | 3051A00187    |
| Agilent               | 8753ES          | S-Parameter Network Analyzer                            | 7/30/2018  | Annual       | 7/30/2019  | MY40000670    |
| Agilent               | 8753ES          | S-Parameter Vector Network Analyzer                     | 8/30/2018  | Annual       | 8/30/2019  | MY40003841    |
| Agilent               | E4432B          | ESG-D Series Signal Generator                           | 4/19/2018  | Annual       | 4/19/2019  | US40053896    |
| Agilent               | E4438C          | ESG Vector Signal Generator                             | 4/18/2018  | Annual       | 4/18/2019  | MY45091346    |
| Agilent               | E5515C          | 8960 Series 10 Wireless Communications Test Set         | 12/18/2018 | Annual       | 12/18/2019 | GB42230325    |
| Agilent               | E5515C          | Wireless Communications Test Set                        | 2/7/2018   | Triennial    | 2/7/2021   | GB43304447    |
| Agilent               | N4010A          | Wireless Connectivity Test Set                          | N/A        | N/A          | N/A        | GB44450273    |
| Agilent               | N5182A          | MXG Vector Signal Generator                             | 11/28/2018 | Annual       | 11/28/2019 | MY47420603    |
| Agilent               | N5182A-506      | MXG Vector Signal Generator                             | 6/19/2018  | Annual       | 6/19/2019  | MY48180366    |
| Amplifier Research    | 1551G6          | Amplifier                                               | CBT        | N/A          | CBT        | 433972        |
| Amplifier Research    | 1551G6          | Amplifier                                               | CBT        | N/A          | CBT        | 433978        |
| Anritsu               | MA24106A        | USB Power Sensor                                        | 8/20/2018  | Annual       | 8/20/2019  | 1520504       |
| Anritsu               | MA24106A        | USB Power Sensor                                        | 7/16/2018  | Annual       | 7/16/2019  | 1520505       |
| Anritsu               | MA2411B         | Pulse Power Sensor                                      | 10/30/2018 | Annual       | 10/30/2019 | 1126066       |
| Anritsu               | MA2411B         | Pulse Power Sensor                                      | 11/20/2018 | Annual       | 11/20/2019 | 1339008       |
| Anritsu               | ML2496A         | Power Meter                                             | 6/19/2018  | Annual       | 6/19/2019  | 1306009       |
| Anritsu               | ML2496A         | Power Meter                                             | 5/21/2018  | Annual       | 5/21/2019  | 1351001       |
| Anritsu               | MT8821C         | Radio Communication Analyzer                            | 7/24/2018  | Annual       | 7/24/2019  | 6201664756    |
| Anritsu               | MT8821C         | Radio Communication Analyzer                            | 1/25/2019  | Annual       | 1/25/2020  | 6261895213    |
| Anritsu               | MT8862A         | Wireless Connectivity Test Set                          | 7/3/2018   | Annual       | 7/3/2019   | 6261782395    |
| COMTECH               | AR85729-5       | Solid State Amplifier                                   | CBT        | N/A          | CBT        | M155A00-009   |
| COMTECH               | AR85729-5/5759B | Solid State Amplifier                                   | CBT        | N/A          | CBT        | M3W1A00-1002  |
| Control Company       | 4040            | Therm./ Clock/ Humidity Monitor                         | 10/9/2018  | Biennial     | 10/9/2020  | 181647802     |
| Control Company       | 4040            | Therm./ Clock/ Humidity Monitor                         | 10/9/2018  | Biennial     | 10/9/2020  | 181647811     |
| Control Company       | 4352            | Ultra Long Stem Thermometer                             | 5/2/2017   | Biennial     | 5/2/2019   | 170330174     |
| Control Company       | 4352            | Ultra Long Stem Thermometer                             | 11/29/2018 | Biennial     | 11/29/2020 | 181766777     |
| Intelligent Weigh     | PD-3000         | Electronic Balance                                      | CBT        | N/A          | CBT        | 11081534      |
| Keysight              | 772D            | Dual Directional Coupler                                | CBT        | N/A          | CBT        | MY52180215    |
| Keysight Technologies | 85033E          | Standard Mechanical Calibration Kit (DC to 9GHz, 3.5mm) | 6/4/2018   | Annual       | 6/4/2019   | MY53401181    |
| MCL                   | BW-N6W5+        | 6dB Attenuator                                          | CBT        | N/A          | CBT        | 1139          |
| MiniCircuits          | SLP-3400+       | Low Pass Filter                                         | CBT        | N/A          | CBT        | R8979500903   |
| MiniCircuits          | VLF-6000+       | Low Pass Filter                                         | CBT        | N/A          | CBT        | N/A           |
| Mini-Circuits         | BW-N20W5        | Power Attenuator                                        | CBT        | N/A          | CBT        | 1226          |
| Mini-Circuits         | BW-N20W5+       | DC to 18 GHz Precision Fixed 20 dB Attenuator           | CBT        | N/A          | CBT        | N/A           |
| Mini-Circuits         | NLP-1200+       | Low Pass Filter DC to 1000 MHz                          | CBT        | N/A          | CBT        | N/A           |
| Mini-Circuits         | NLP-2950+       | Low Pass Filter DC to 2700 MHz                          | CBT        | N/A          | CBT        | N/A           |
| Mitutoyo              | CD-6°CSX        | Digital Caliper                                         | 4/18/2018  | Biennial     | 4/18/2020  | 13264165      |
| 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-S3W2         | Attenuator (3dB)                                        | CBT        | N/A          | CBT        | 120           |
| Pasternack            | NC-100          | Torque Wrench                                           | 5/23/2018  | Biennial     | 5/23/2020  | N/A           |
| Pasternack            | PE2209-10       | Bidirectional Coupler                                   | CBT        | N/A          | CBT        | N/A           |
| Pasternack            | PE5011-1        | Torque Wrench                                           | 7/19/2017  | Biennial     | 7/19/2019  | N/A           |
| Rohde & Schwarz       | CMW500          | Radio Communication tester                              | 8/3/2018   | Annual       | 8/3/2019   | 140144        |
| Rohde & Schwarz       | CMW500          | Radio Communication Tester                              | 11/5/2018  | Annual       | 11/5/2019  | 140148        |
| Rohde & Schwarz       | CMW500          | Wideband Radio Communication Tester                     | 1/30/2019  | Annual       | 1/30/2020  | 162125        |
| Rohde & Schwarz       | CMW500          | Wideband Radio Communication Tester                     | 10/30/2018 | Annual       | 10/30/2019 | 164948        |
| SPEAG                 | D1750V2         | 1750 MHz SAR Dipole                                     | 5/9/2017   | Biennial     | 5/9/2019   | 1148          |
| SPEAG                 | D1750V2         | 1750 MHz SAR Dipole                                     | 10/22/2018 | Annual       | 10/22/2019 | 1150          |
| SPEAG                 | D1900V2         | 1900 MHz SAR Dipole                                     | 10/23/2018 | Annual       | 10/23/2019 | 5d080         |
| SPEAG                 | D1900V2         | 1900 MHz SAR Dipole                                     | 10/23/2018 | Annual       | 10/23/2019 | 5d149         |
| SPEAG                 | D2300V2         | 2300 MHz SAR Dipole                                     | 11/8/2017  | Biennial     | 11/8/2019  | 1064          |
| SPEAG                 | D2450V2         | 2450 MHz SAR Dipole                                     | 8/17/2017  | Biennial     | 8/17/2019  | 719           |
| SPEAG                 | D2450V2         | 2450 MHz SAR Dipole                                     | 9/11/2017  | Biennial     | 9/11/2019  | 797           |
| SPEAG                 | D2450V2         | 2450 MHz SAR Dipole                                     | 8/16/2018  | Annual       | 8/16/2019  | 981           |
| SPEAG                 | D2600V2         | 2600 MHz SAR Dipole                                     | 4/11/2018  | Annual       | 4/11/2019  | 1004          |
| SPEAG                 | D2600V2         | 2600 MHz SAR Dipole                                     | 6/7/2017   | Biennial     | 6/7/2019   | 1064          |
| SPEAG                 | D2600V2         | 2600 MHz SAR Dipole                                     | 9/13/2016  | Triennial    | 9/13/2019  | 1071          |
| SPEAG                 | D5GHZV2         | 5 GHz SAR Dipole                                        | 9/21/2016  | Triennial    | 9/21/2019  | 1191          |
| SPEAG                 | D5GHZV2         | 5 GHz SAR Dipole                                        | 8/10/2018  | Annual       | 8/10/2019  | 1237          |
| SPEAG                 | D750V3          | 750 MHz SAR Dipole                                      | 3/7/2017   | Biennial     | 3/7/2019   | 1054          |
| SPEAG                 | D750V3          | 750 MHz SAR Dipole                                      | 1/15/2018  | Biennial     | 1/15/2020  | 1003          |
| SPEAG                 | D835V2          | 835 MHz SAR Dipole                                      | 10/19/2018 | Annual       | 10/19/2019 | 4d047         |
| SPEAG                 | D835V2          | 835 MHz SAR Dipole                                      | 10/19/2018 | Annual       | 10/19/2019 | 4d133         |
| SPEAG                 | DAE4            | Dasy Data Acquisition Electronics                       | 2/13/2019  | Annual       | 2/13/2020  | 665           |
| SPEAG                 | DAE4            | Dasy Data Acquisition Electronics                       | 7/11/2018  | Annual       | 7/11/2019  | 1322          |
| SPEAG                 | DAE4            | Dasy Data Acquisition Electronics                       | 6/18/2018  | Annual       | 6/18/2019  | 1334          |
| SPEAG                 | DAE4            | Dasy Data Acquisition Electronics                       | 3/7/2018   | Annual       | 3/7/2019   | 1368          |
| SPEAG                 | DAE4            | Dasy Data Acquisition Electronics                       | 4/11/2018  | Annual       | 4/11/2019  | 1407          |
| SPEAG                 | DAE4            | Dasy Data Acquisition Electronics                       | 8/22/2018  | Annual       | 8/22/2019  | 1450          |
| SPEAG                 | DAE4            | Dasy Data Acquisition Electronics                       | 1/15/2019  | Annual       | 1/15/2020  | 1530          |
| SPEAG                 | DAE4            | Dasy Data Acquisition Electronics                       | 10/3/2018  | Annual       | 10/3/2019  | 1558          |
| SPEAG                 | DAK-3.5         | Dielectric Assessment Kit                               | 9/11/2018  | Annual       | 9/11/2019  | 1091          |
| SPEAG                 | ES3DV3          | SAR Probe                                               | 3/13/2018  | Annual       | 3/13/2019  | 3319          |
| SPEAG                 | EX3DV4          | SAR Probe                                               | 1/25/2019  | Annual       | 1/25/2020  | 3589          |
| SPEAG                 | EX3DV4          | SAR Probe                                               | 8/23/2018  | Annual       | 8/23/2019  | 7308          |
| SPEAG                 | EX3DV4          | SAR Probe                                               | 4/18/2018  | Annual       | 4/18/2019  | 7357          |
| SPEAG                 | EX3DV4          | SAR Probe                                               | 6/25/2018  | Annual       | 6/25/2019  | 7409          |
| SPEAG                 | EX3DV4          | SAR Probe                                               | 7/20/2018  | Annual       | 7/20/2019  | 7410          |
| SPEAG                 | EX3DV4          | SAR Probe                                               | 2/19/2019  | Annual       | 2/19/2020  | 7417          |
| SPEAG                 | EX3DV4          | SAR Probe                                               | 1/24/2019  | Annual       | 1/24/2020  | 7488          |

Note: 1. Each Equipment item was used solely within its respective 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: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 172 of 176                 |

## 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                              | ∞              |
| Combined Standard Uncertainty (k=1)                                           | RSS           |                |              |                       |                          | 11.5                           | 11.3                             | 60             |
| Expanded Uncertainty<br>(95% CONFIDENCE LEVEL)                                | k=2           |                |              |                       |                          | 23.0                           | 22.6                             |                |

|                                                |                                                                                     |                                      |                                                                                       |                                        |
|------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMF900F                             |  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M1901280020-01-R1.A3L | <b>Test Dates:</b><br>2/11/19 - 3/10/19                                             | <b>DUT Type:</b><br>Portable Handset | Page 173 of 176                                                                       |                                        |

## 17 CONCLUSION

### 17.1 Measurement Conclusion

The SAR evaluation indicates that the EUT complies with the RF radiation exposure limits of the FCC and Innovation, Science, and Economic Development Canada, with respect to all parameters subject to this test. These measurements were taken to simulate the RF effects of RF exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The results and statements relate only to the item(s) tested.

Please note that the absorption and distribution of electromagnetic energy in the body are very complex phenomena that depend on the mass, shape, and size of the body, the orientation of the body with respect to the field vectors, and the electrical properties of both the body and the environment. Other variables that may play a substantial role in possible biological effects are those that characterize the environment (e.g. ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g. age, gender, activity level, debilitation, or disease). Because various factors may interact with one another to vary the specific biological outcome of an exposure to electromagnetic fields, any protection guide should consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables. [3]

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 174 of 176                 |

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|                                         |                                                                                                                                                                                                        |                               |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  <b>SAR EVALUATION REPORT</b>  |                               | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                                                                                                                                       | DUT Type:<br>Portable Handset | Page 175 of 176                 |

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|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMF900F                      |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M1901280020-01-R1.A3L | Test Dates:<br>2/11/19 - 3/10/19                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 176 of 176                 |

## APPENDIX A: SAR TEST DATA

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1390M**

Communication System: UID 0, GSM; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium: 835 Head Medium parameters used (interpolated):

$f = 836.6 \text{ MHz}$ ;  $\sigma = 0.882 \text{ S/m}$ ;  $\epsilon_r = 39.519$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Test Date: 02-11-2019; Ambient Temp: 21.1°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN7410; ConvF(9.81, 9.81, 9.81) @ 836.6 MHz; Calibrated: 7/20/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2018

Phantom: SAM Front; Type: SAM; Serial: 1686

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: GSM 850, Right Head, Cheek, Mid.ch**

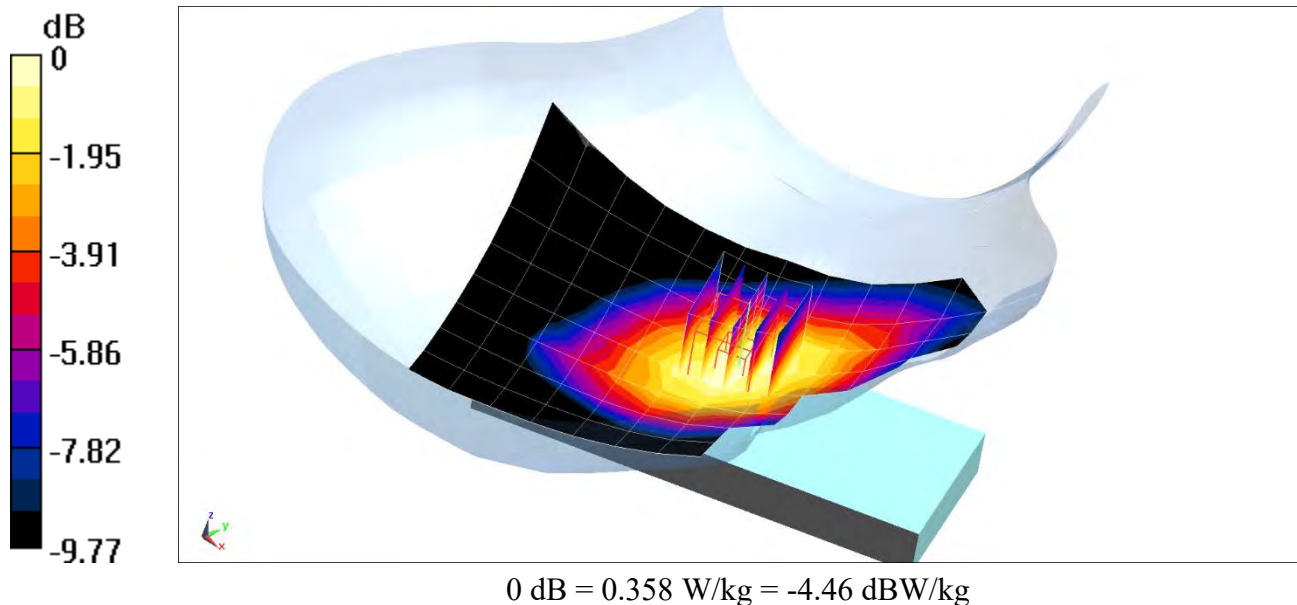
**Area Scan (9x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 18.87 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.397 W/kg

**SAR(1 g) = 0.297 W/kg**



# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1345M**

Communication System: UID 0, GSM; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: 1900 Head Medium parameters used:

$f = 1880 \text{ MHz}$ ;  $\sigma = 1.397 \text{ S/m}$ ;  $\epsilon_r = 39.474$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Test Date: 02-19-2019; Ambient Temp: 23.2°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN7410; ConvF(8.16, 8.16, 8.16) @ 1880 MHz; Calibrated: 7/20/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2018

Phantom: SAM Front; Type: SAM; Serial: 1686

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: GSM 1900, Left Head, Cheek, Mid.ch**

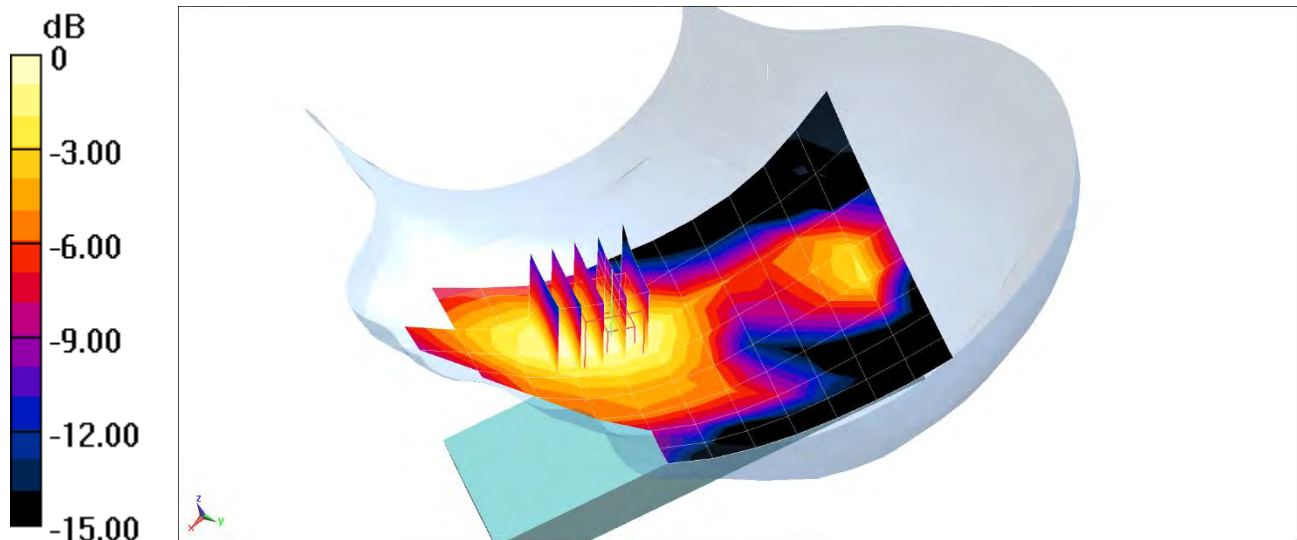
**Area Scan (9x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 7.674 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.115 W/kg

**SAR(1 g) = 0.075 W/kg**



0 dB = 0.100 W/kg = -10.00 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1390M**

Communication System: UID 0, UMTS; Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium: 835 Head Medium parameters used (interpolated):

$f = 836.6 \text{ MHz}$ ;  $\sigma = 0.882 \text{ S/m}$ ;  $\epsilon_r = 39.519$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Test Date: 02-11-2019; Ambient Temp: 21.1°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN7410; ConvF(9.81, 9.81, 9.81) @ 836.6 MHz; Calibrated: 7/20/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2018

Phantom: SAM Front; Type: SAM; Serial: 1686

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: UMTS 850, Right Head, Cheek, Mid.ch**

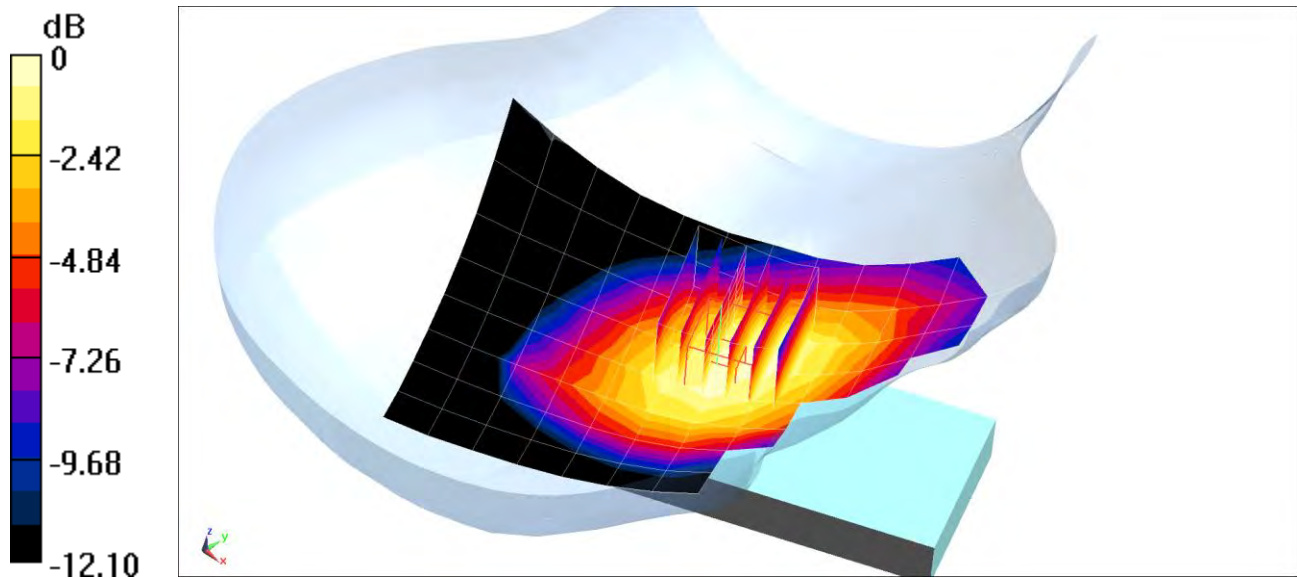
**Area Scan (9x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 19.37 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.425 W/kg

**SAR(1 g) = 0.319 W/kg**



0 dB = 0.388 W/kg = -4.11 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1404M**

Communication System: UID 0, UMTS; Frequency: 1732.4 MHz; Duty Cycle: 1:1

Medium: 1750 Head; Medium parameters used (interpolated):

$f = 1732.4 \text{ MHz}$ ;  $\sigma = 1.385 \text{ S/m}$ ;  $\epsilon_r = 38.948$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Test Date: 03-04-2019; Ambient Temp: 22.0°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7357; ConvF(8.8, 8.8, 8.8) @ 1732.4 MHz; Calibrated: 4/18/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/11/2018

Phantom: Left For Head SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:1687

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: UMTS 1750, Left Head, Cheek, Mid.ch**

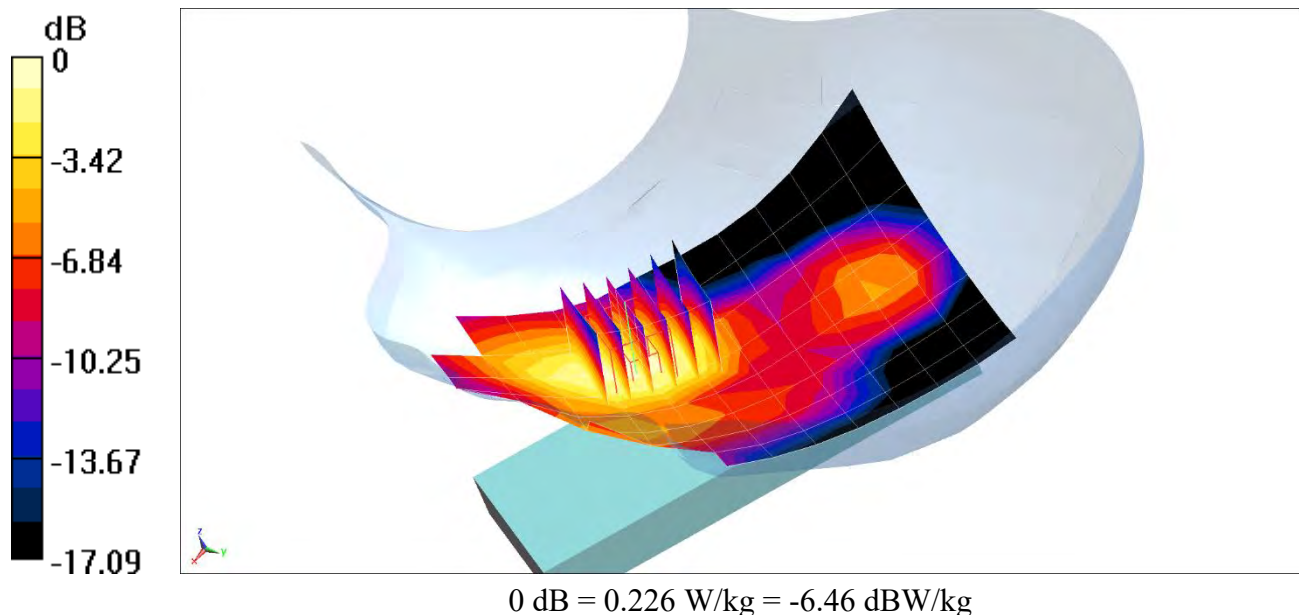
**Area Scan (9x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x6x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 11.16 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.263 W/kg

**SAR(1 g) = 0.166 W/kg**



# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1345M**

Communication System: UID 0, UMTS; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: 1900 Head Medium parameters used:

$f = 1880 \text{ MHz}$ ;  $\sigma = 1.397 \text{ S/m}$ ;  $\epsilon_r = 39.474$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Test Date: 02-19-2019; Ambient Temp: 23.2°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN7410; ConvF(8.16, 8.16, 8.16) @ 1880 MHz; Calibrated: 7/20/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2018

Phantom: SAM Front; Type: SAM; Serial: 1686

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: UMTS 1900, Left Head, Cheek, Mid.ch**

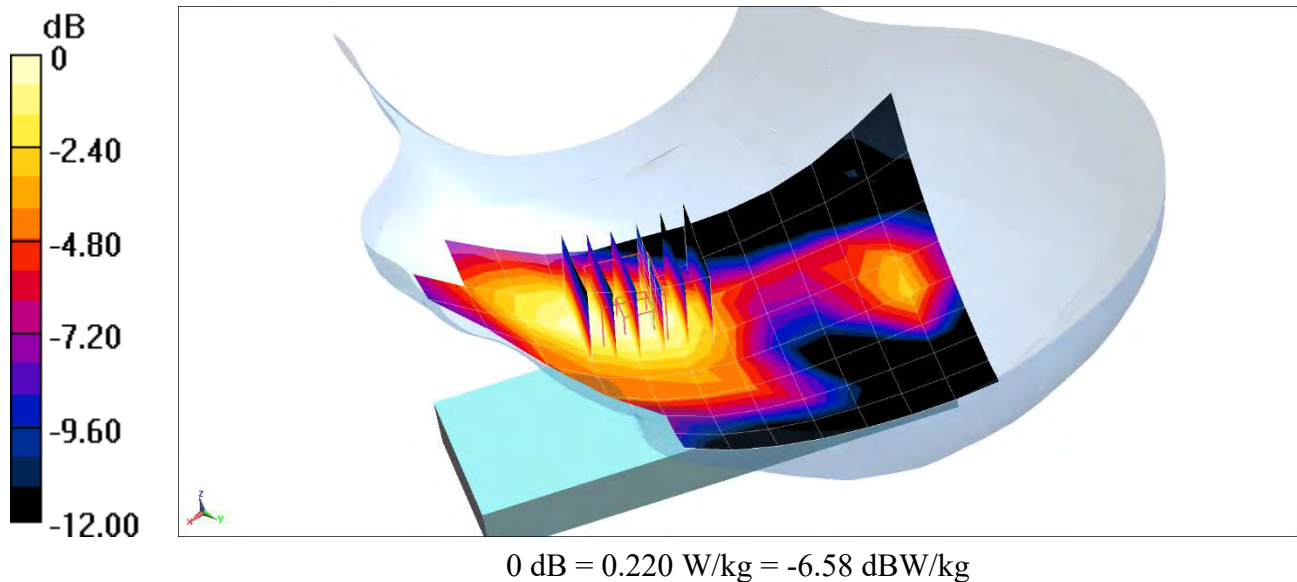
**Area Scan (9x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x6x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 11.64 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.262 W/kg

**SAR(1 g) = 0.175 W/kg**



# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1345M**

Communication System: UID 0, LTE Band 71; Frequency: 680.5 MHz; Duty Cycle: 1:1

Medium: 750 Head Medium parameters used (interpolated):

$f = 680.5 \text{ MHz}$ ;  $\sigma = 0.871 \text{ S/m}$ ;  $\epsilon_r = 42.162$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Test Date: 02-14-2019; Ambient Temp: 22.9°C; Tissue Temp: 20.7°C

Probe: EX3DV4 - SN7410; ConvF(10.13, 10.13, 10.13) @ 680.5 MHz; Calibrated: 7/20/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2018

Phantom: SAM Front; Type: SAM; Serial: 1686

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 71, Right Head, Cheek, Mid.ch,  
20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

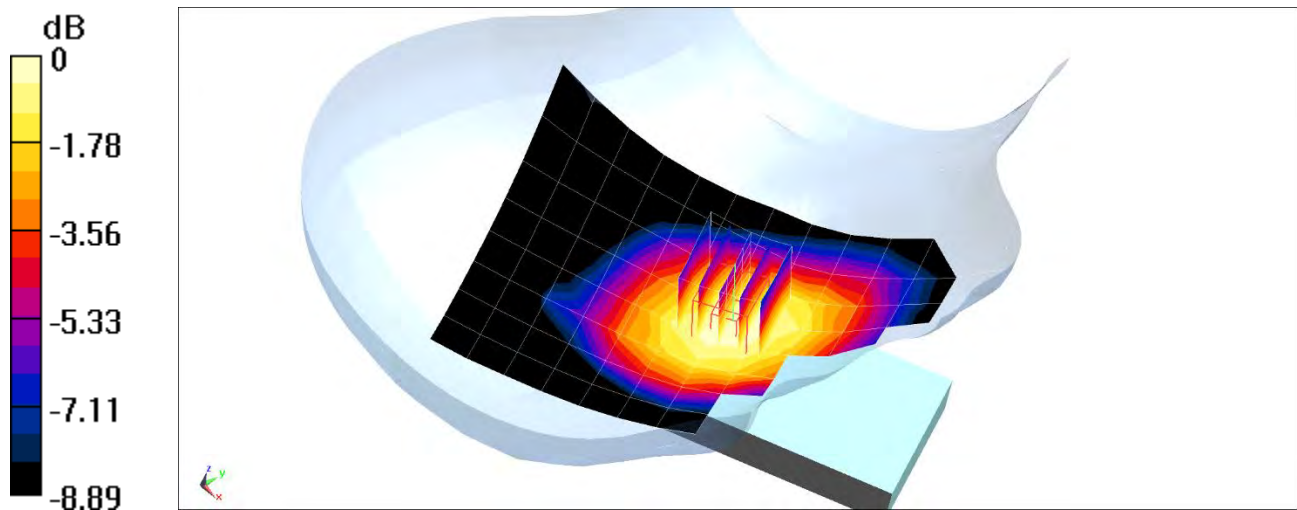
**Area Scan (9x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 14.37 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.209 W/kg

**SAR(1 g) = 0.165 W/kg**



0 dB = 0.193 W/kg = -7.14 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1345M**

Communication System: UID 0, LTE Band 12; Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium: 750 Head Medium parameters used (interpolated):

$f = 707.5$  MHz;  $\sigma = 0.883$  S/m;  $\epsilon_r = 42.138$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Test Date: 02-14-2019; Ambient Temp: 22.9°C; Tissue Temp: 20.7°C

Probe: EX3DV4 - SN7410; ConvF(10.13, 10.13, 10.13) @ 707.5 MHz; Calibrated: 7/20/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2018

Phantom: SAM Front; Type: SAM; Serial: 1686

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 12, Right Head, Cheek, Mid.ch,  
10 MHz Bandwidth, QPSK, 1 RB, 25 RB Offset**

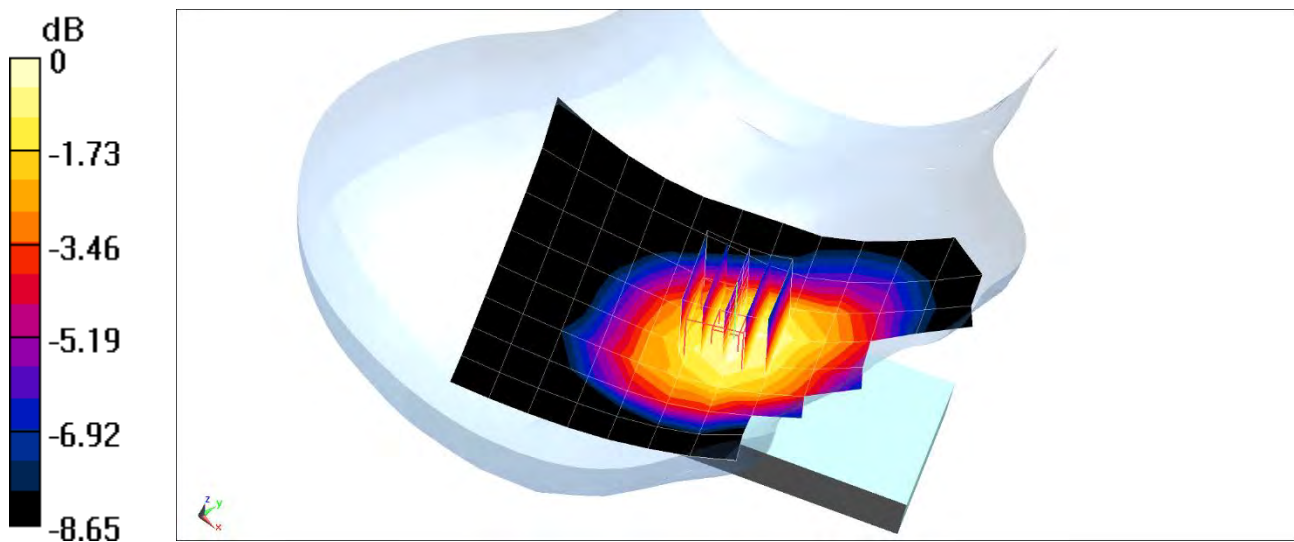
**Area Scan (9x13x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.44 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.242 W/kg

**SAR(1 g) = 0.190 W/kg**



0 dB = 0.226 W/kg = -6.46 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1345M**

Communication System: UID 0, LTE Band 13; Frequency: 782 MHz; Duty Cycle: 1:1

Medium: 750 Head Medium parameters used (interpolated):

$f = 782 \text{ MHz}$ ;  $\sigma = 0.91 \text{ S/m}$ ;  $\epsilon_r = 41.88$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Test Date: 02-14-2019; Ambient Temp: 22.9°C; Tissue Temp: 20.7°C

Probe: EX3DV4 - SN7410; ConvF(10.13, 10.13, 10.13) @ 782 MHz; Calibrated: 7/20/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2018

Phantom: SAM Front; Type: SAM; Serial: 1686

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 13, Right Head, Cheek, Mid.ch,  
10 MHz Bandwidth, QPSK, 1 RB, 49 RB Offset**

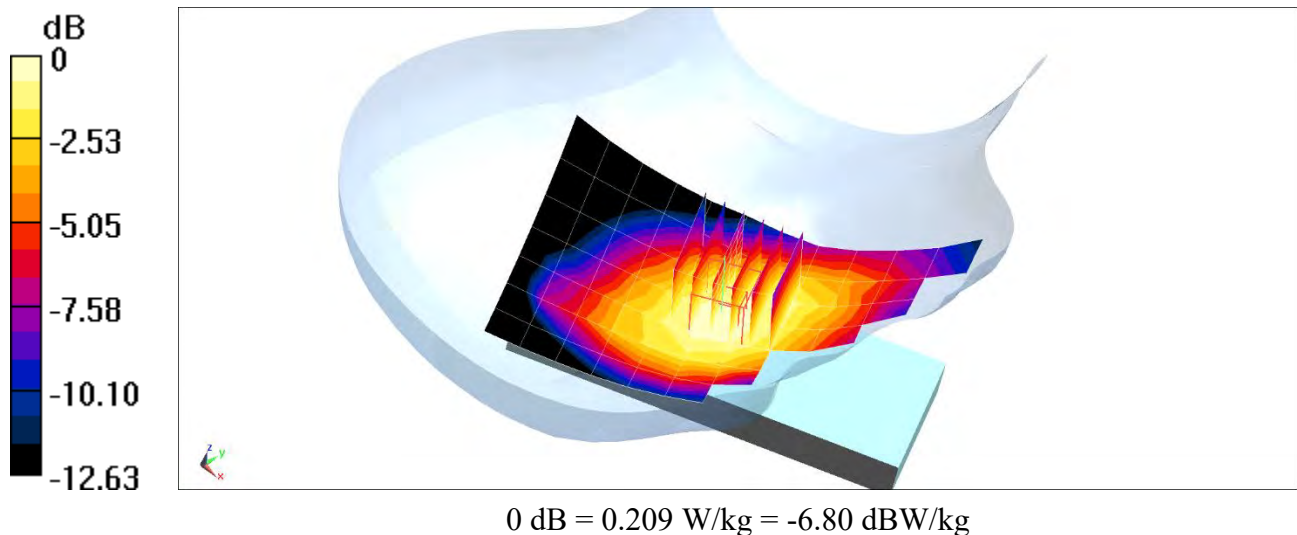
**Area Scan (8x13x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 14.37 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.226 W/kg

**SAR(1 g) = 0.175 W/kg**



# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1345M**

Communication System: UID 0, LTE Band 14; Frequency: 793 MHz; Duty Cycle: 1:1

Medium: 750 Head Medium parameters used (interpolated):

$f = 793 \text{ MHz}$ ;  $\sigma = 0.914 \text{ S/m}$ ;  $\epsilon_r = 41.827$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Test Date: 02-14-2019; Ambient Temp: 22.9°C; Tissue Temp: 20.7°C

Probe: EX3DV4 - SN7410; ConvF(10.13, 10.13, 10.13) @ 793 MHz; Calibrated: 7/20/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2018

Phantom: SAM Front; Type: SAM; Serial: 1686

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 14, Right Head, Cheek, Mid.ch,  
10 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

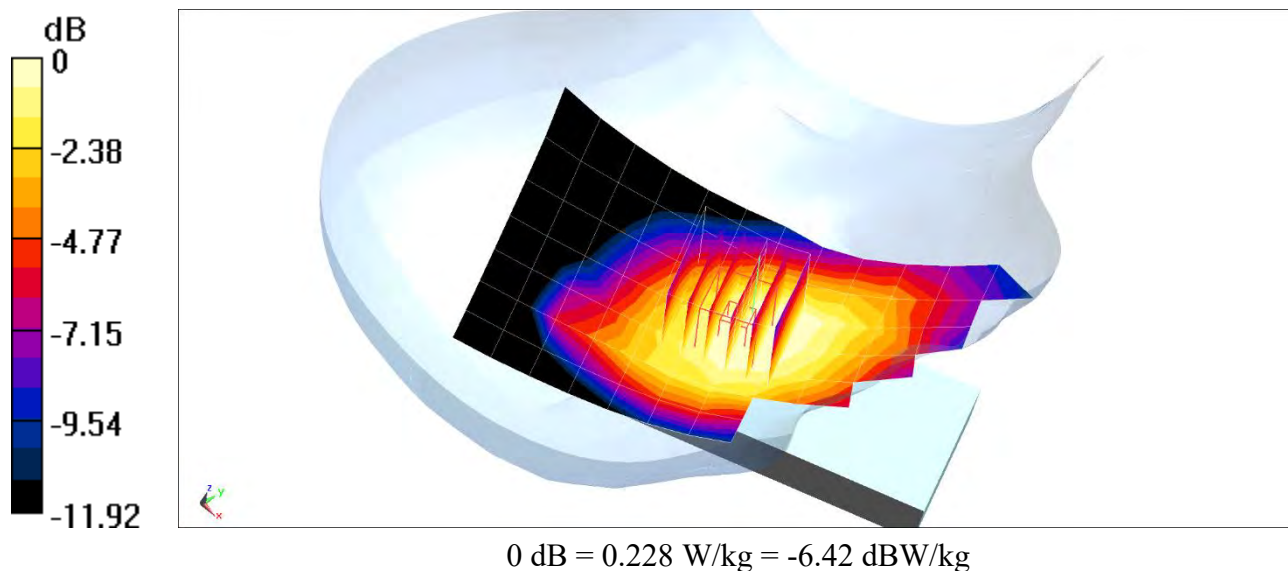
**Area Scan (9x13x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 15.60 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.249 W/kg

**SAR(1 g) = 0.193 W/kg**



# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1390M**

Communication System: UID 0, LTE Band 26; Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium: 835 Head Medium parameters used (interpolated):

$f = 831.5 \text{ MHz}$ ;  $\sigma = 0.88 \text{ S/m}$ ;  $\epsilon_r = 39.532$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Test Date: 02-11-2019; Ambient Temp: 21.1°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN7410; ConvF(9.81, 9.81, 9.81) @ 831.5 MHz; Calibrated: 7/20/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2018

Phantom: SAM Front; Type: SAM; Serial: 1686

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 26 (Cell.), Right Head, Cheek, Mid.ch,  
15 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

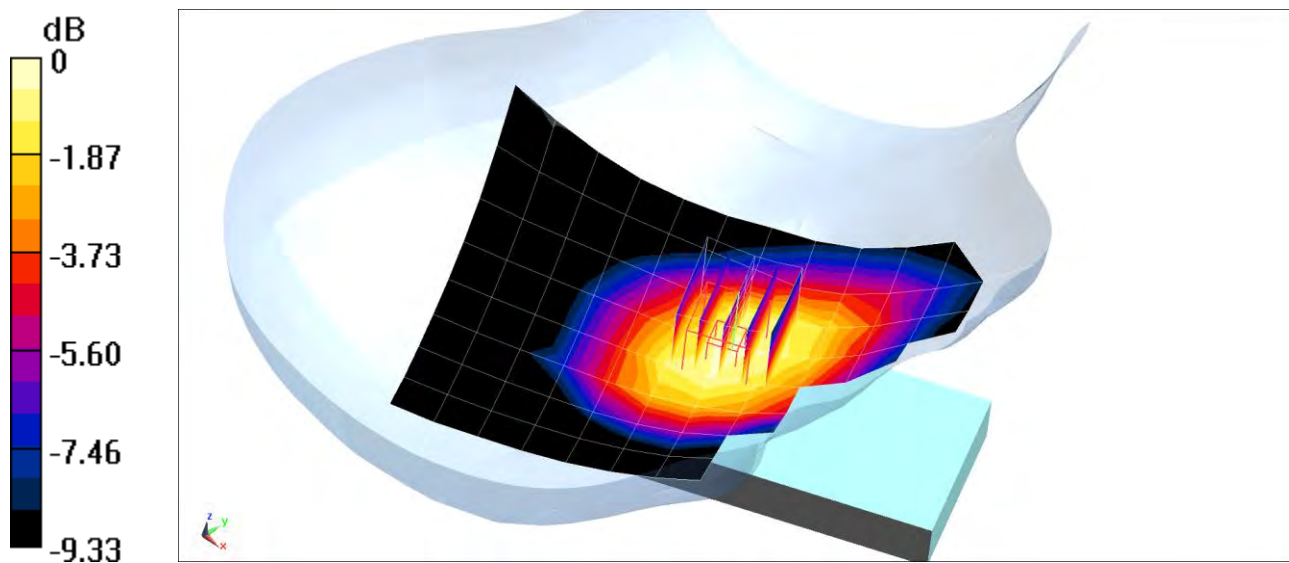
**Area Scan (9x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 18.99 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.374 W/kg

**SAR(1 g) = 0.285 W/kg**



0 dB = 0.343 W/kg = -4.65 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1404M**

Communication System: UID 0, LTE Band 66 (AWS); Frequency: 1720 MHz; Duty Cycle: 1:1

Medium: 1750 Head; Medium parameters used (interpolated):

$f = 1720 \text{ MHz}$ ;  $\sigma = 1.372 \text{ S/m}$ ;  $\epsilon_r = 39.007$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Test Date: 03-04-2019; Ambient Temp: 22.0°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7357; ConvF(8.8, 8.8, 8.8) @ 1720 MHz; Calibrated: 4/18/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/11/2018

Phantom: Left For Head SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:1687

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 66 (AWS), Left Head, Cheek, Low.ch,  
20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

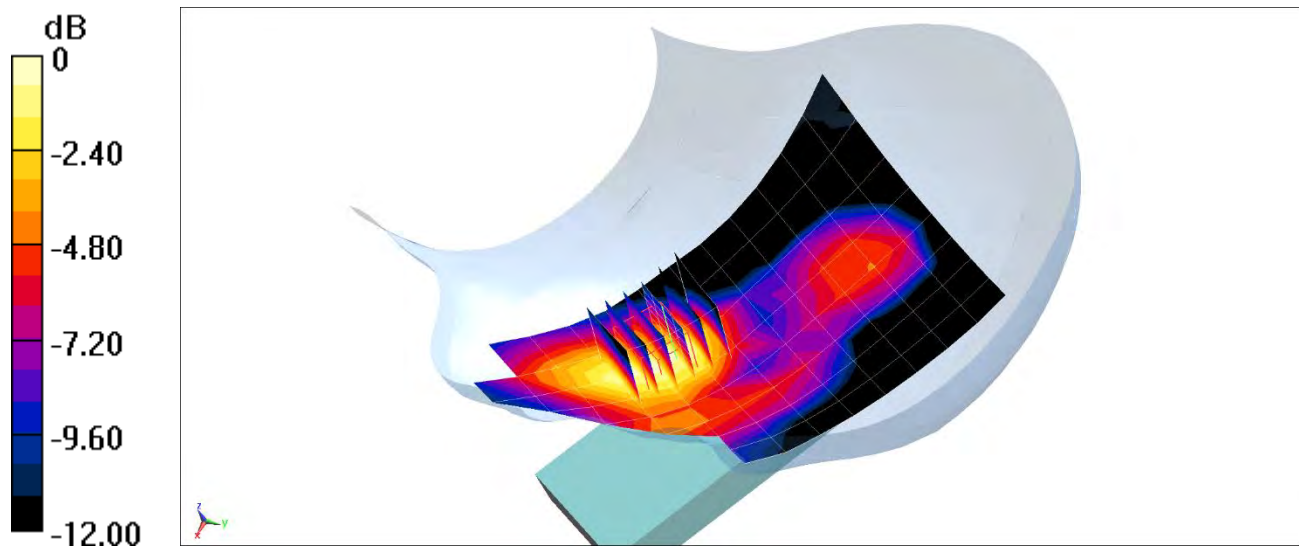
**Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x6x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.93 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.254 W/kg

**SAR(1 g) = 0.164 W/kg**



0 dB = 0.220 W/kg = -6.58 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1345M**

Communication System: UID 0, LTE Band 25 (PCS); Frequency: 1860 MHz; Duty Cycle: 1:1

Medium: 1900 Head Medium parameters used (interpolated):

$f = 1860 \text{ MHz}$ ;  $\sigma = 1.386 \text{ S/m}$ ;  $\epsilon_r = 39.511$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Test Date: 02-19-2019; Ambient Temp: 23.2°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN7410; ConvF(8.16, 8.16, 8.16) @ 1860 MHz; Calibrated: 7/20/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2018

Phantom: SAM Front; Type: SAM; Serial: 1686

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 25 (PCS), Left Head, Cheek, Low.ch,  
20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

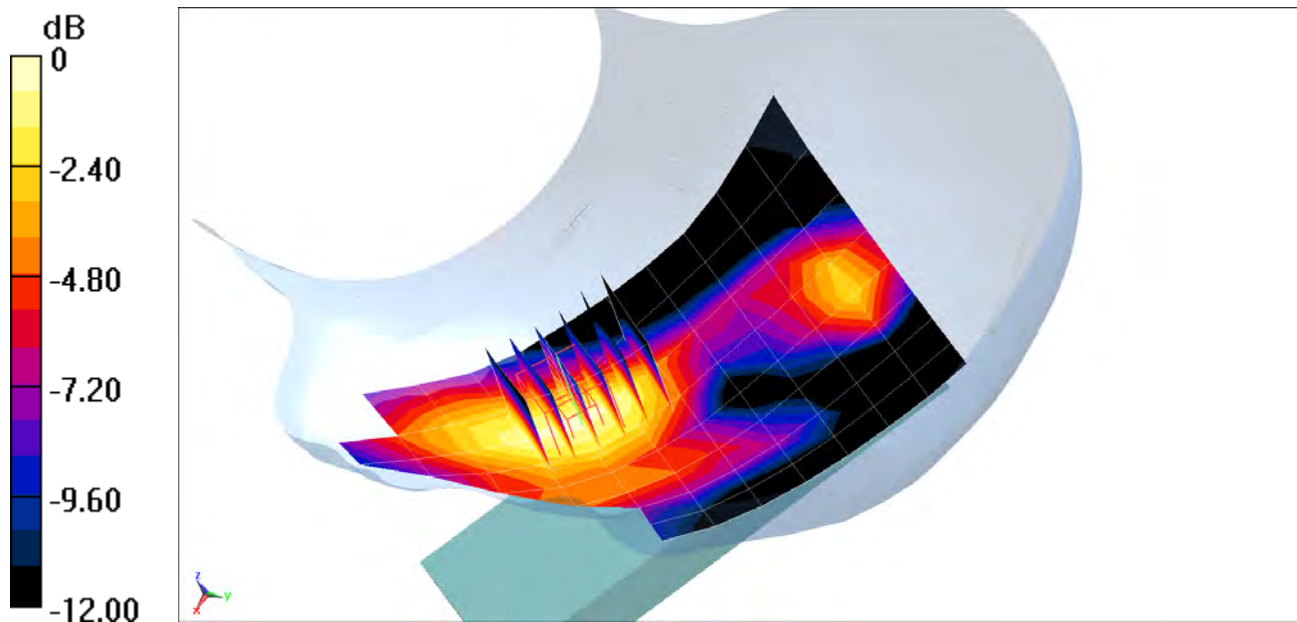
**Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x6x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.90 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.254 W/kg

**SAR(1 g) = 0.170 W/kg**



0 dB = 0.223 W/kg = -6.52 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1359M**

Communication System: UID 0, LTE Band 30; Frequency: 2310 MHz; Duty Cycle: 1:1

Medium: 2450 Head; Medium parameters used:

$f = 2310 \text{ MHz}$ ;  $\sigma = 1.76 \text{ S/m}$ ;  $\epsilon_r = 41.362$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Test Date: 03-02-2019; Ambient Temp: 20.5°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN3589; ConvF(6.77, 6.77, 6.77) @ 2310 MHz; Calibrated: 1/25/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1450; Calibrated: 8/22/2018

Phantom: SAM V5.0 Right; Type: QD000P40CD; Serial: 1647

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 30, Left Head, Cheek, Mid.ch,  
10 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

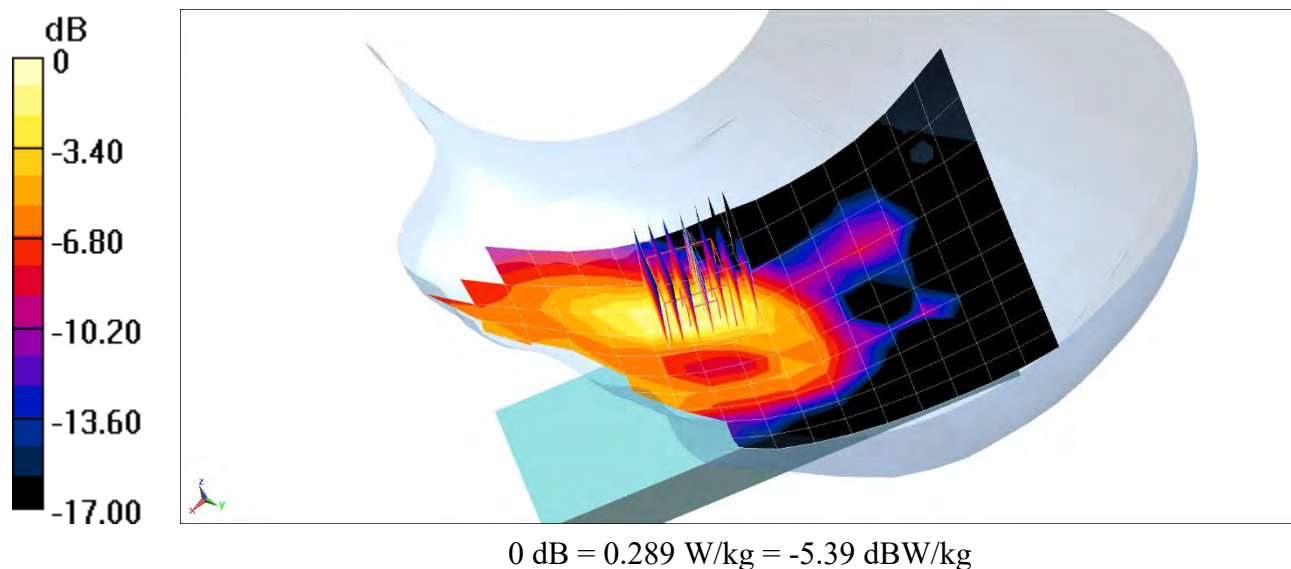
**Area Scan (11x18x1):** Measurement grid:  $dx=12\text{mm}$ ,  $dy=12\text{mm}$

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 11.56 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.351 W/kg

**SAR(1 g) = 0.187 W/kg**



# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1358M**

Communication System: UID 0, LTE Band 7; Frequency: 2510 MHz; Duty Cycle: 1:1

Medium: 2450MHz Head Medium parameters used (interpolated):

$f = 2510 \text{ MHz}$ ;  $\sigma = 1.881 \text{ S/m}$ ;  $\epsilon_r = 38.446$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Test Date: 02-13-2019; Ambient Temp: 20.9°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN7409; ConvF(7.23, 7.23, 7.23) @ 2510 MHz; Calibrated: 6/25/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1334; Calibrated: 6/18/2018

Phantom: SAM with CRP (Left); Type: SAM; Serial: 1715

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 7, Left Head, Cheek, Low.ch, QPSK,  
20 MHz Bandwidth, 1 RB, 99 RB Offset**

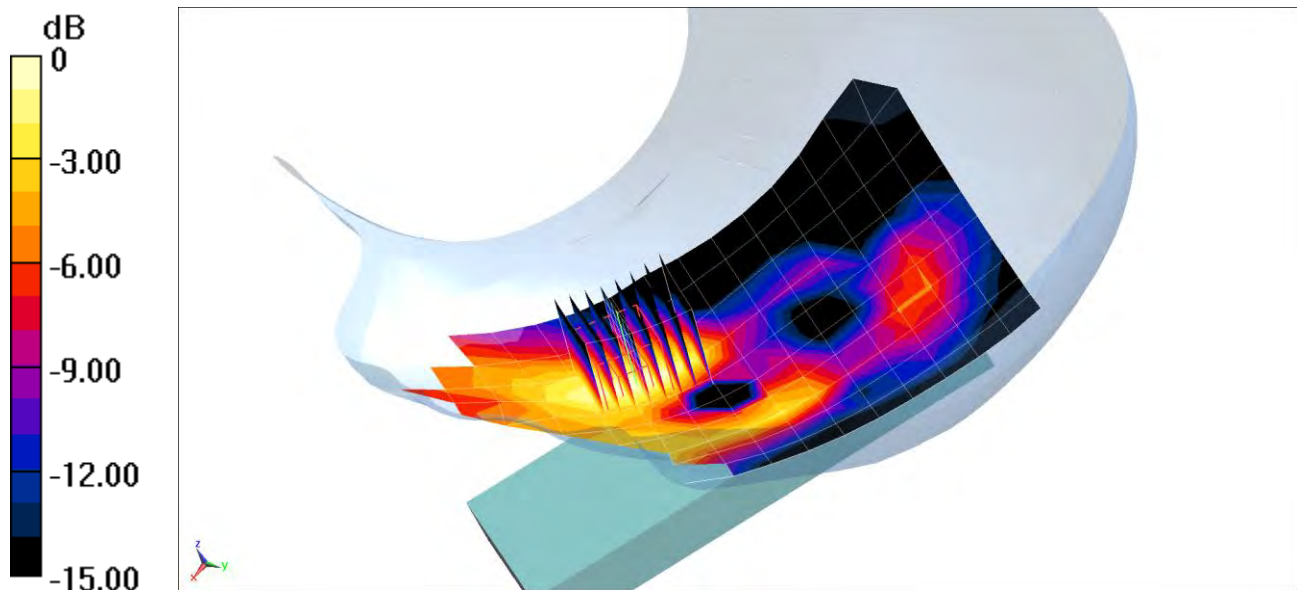
**Area Scan (11x18x1):** Measurement grid:  $dx=12\text{mm}$ ,  $dy=12\text{mm}$

**Zoom Scan (7x8x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 9.732 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.292 W/kg

**SAR(1 g) = 0.144 W/kg**



0 dB = 0.224 W/kg = -6.50 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1358M**

Communication System: UID 0, LTE Band 41; Frequency: 2636.5 MHz; Duty Cycle: 1:1.58

Medium: 2450MHz Head Medium parameters used (interpolated):

$f = 2636.5$  MHz;  $\sigma = 1.984$  S/m;  $\epsilon_r = 38.241$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Test Date: 02-13-2019; Ambient Temp: 20.9°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN7409; ConvF(6.98, 6.98, 6.98) @ 2636.5 MHz; Calibrated: 6/25/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1334; Calibrated: 6/18/2018

Phantom: SAM with CRP (Left); Type: SAM; Serial: 1715

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 41, Left Head, Cheek, Mid-High.ch, QPSK,  
20 MHz Bandwidth, 1 RB, 0 RB Offset**

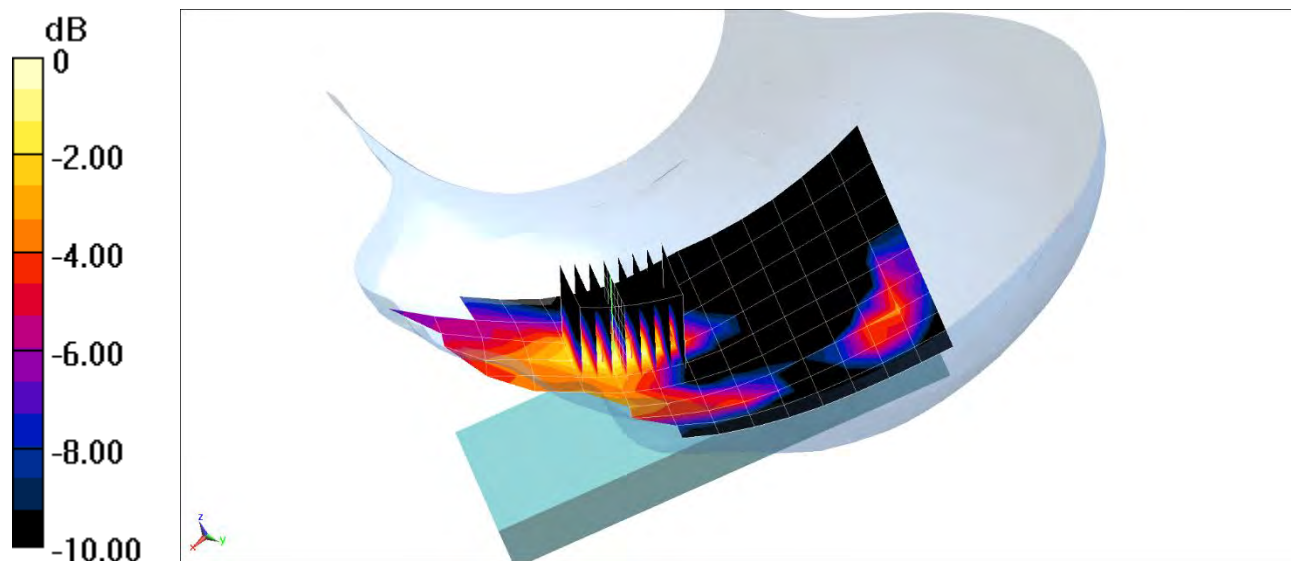
**Area Scan (10x17x1):** Measurement grid: dx=12mm, dy=12mm

**Zoom Scan (7x8x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.447 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.167 W/kg

**SAR(1 g) = 0.082 W/kg**



0 dB = 0.133 W/kg = -8.76 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1385M**

Communication System: UID 0, IEEE 802.11b; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: 2450MHz Head Medium parameters used (interpolated):

$f = 2462 \text{ MHz}$ ;  $\sigma = 1.858 \text{ S/m}$ ;  $\epsilon_r = 39.218$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Test Date: 02-11-2019; Ambient Temp: 20.9°C; Tissue Temp: 21.1°C

Probe: EX3DV4 - SN7409; ConvF(7.23, 7.23, 7.23) @ 2462 MHz; Calibrated: 6/25/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1334; Calibrated: 6/18/2018

Phantom: SAM with CRP (Left); Type: SAM; Serial: 1715

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7450)

**Mode: IEEE 802.11b, 22 MHz Bandwidth, Antenna 2, Right Head, Tilt, Ch 11, 1 Mbps**

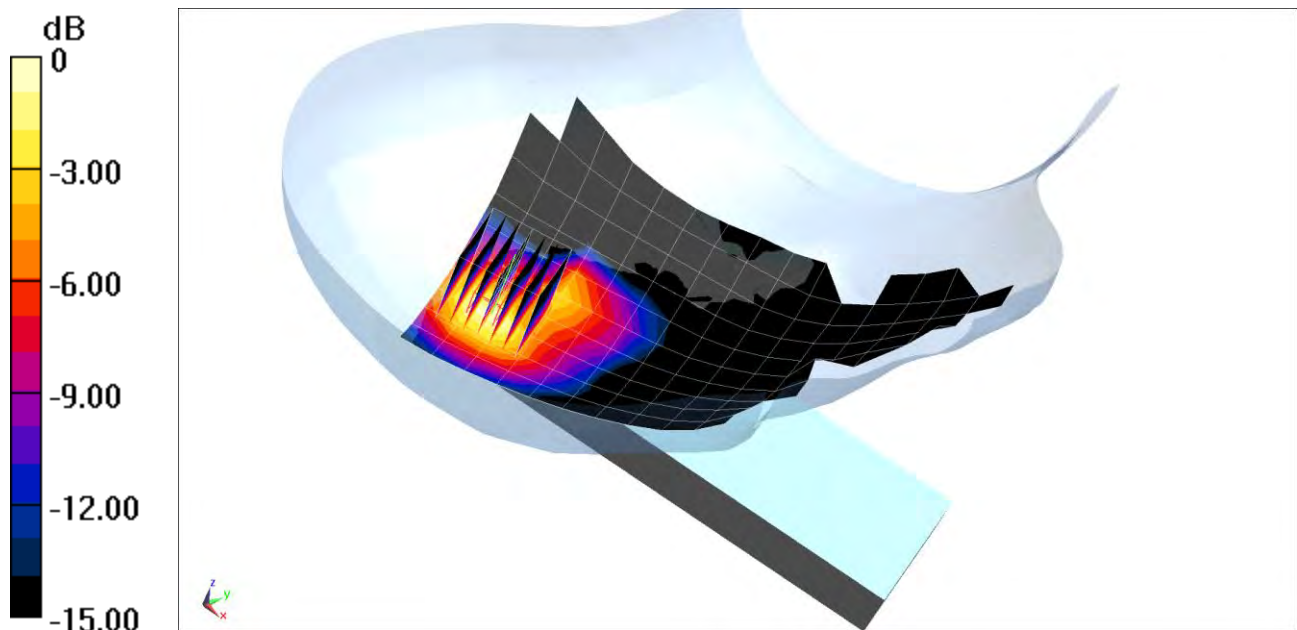
**Area Scan (11x11x1):** Measurement grid:  $dx=12\text{mm}$ ,  $dy=12\text{mm}$

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 4.865 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.208 W/kg

**SAR(1 g) = 0.089 W/kg**



0 dB = 0.145 W/kg = -8.39 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1365M**

Communication System: UID 0, IEEE 802.11n 5.2-5.8 GHz Band; Frequency: 5310 MHz; Duty Cycle: 1:1

Medium: 5GHz Head; Medium parameters used (interpolated):

$f = 5310 \text{ MHz}$ ;  $\sigma = 4.648 \text{ S/m}$ ;  $\epsilon_r = 34.8$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Test Date: 02-19-2019; Ambient Temp: 21.6°C; Tissue Temp: 21.1°C

Probe: EX3DV4 - SN7409; ConvF(5.2, 5.2, 5.2) @ 5310 MHz; Calibrated: 6/25/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1334; Calibrated: 6/18/2018

Phantom: SAM with CRP (Left); Type: SAM; Serial: 1715

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7450)

**Mode: IEEE 802.11n, Antenna 1, U-NII-2A, 40 MHz Bandwidth,  
Right Head, Cheek, Ch 62, 13.5 Mbps**

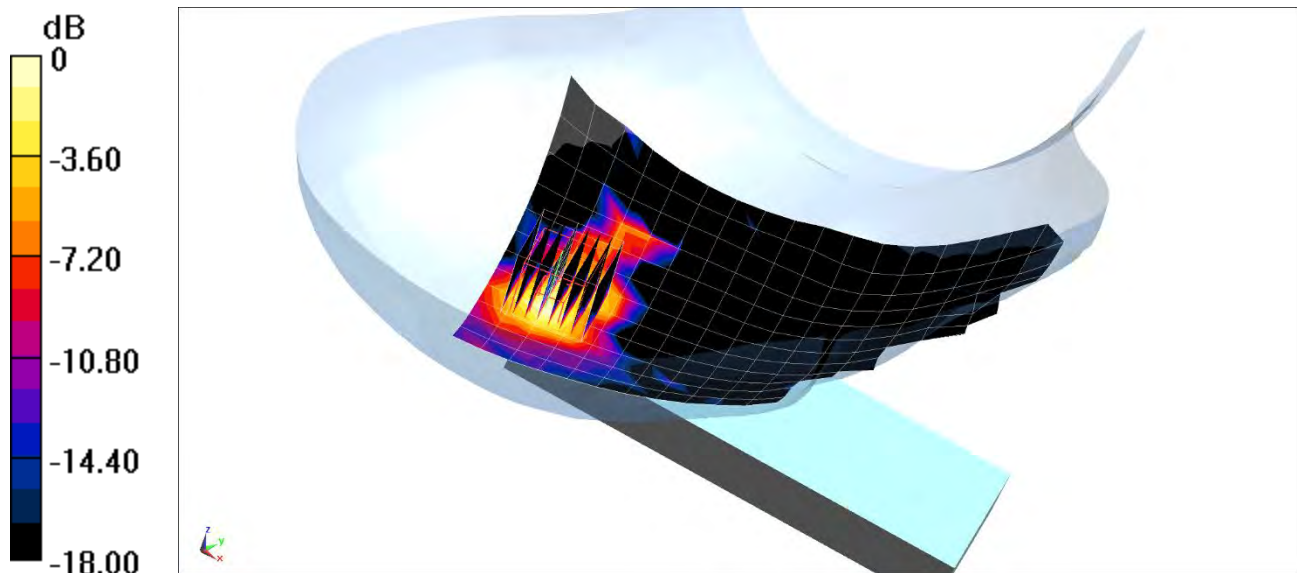
**Area Scan (13x25x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

**Zoom Scan (9x9x7)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=1.4\text{mm}$ ; Graded Ratio: 1.4

Reference Value = 2.162 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.294 W/kg

**SAR(1 g) = 0.058 W/kg**



0 dB = 0.151 W/kg = -8.21 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1358B**

Communication System: UID 0, Bluetooth; Frequency: 2402 MHz; Duty Cycle: 1:1.297

Medium: 2450MHz Head; Medium parameters used (interpolated):

$f = 2402 \text{ MHz}$ ;  $\sigma = 1.797 \text{ S/m}$ ;  $\epsilon_r = 38.627$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Test Date: 02-13-2019; Ambient Temp: 20.9°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN7409; ConvF(7.23, 7.23, 7.23) @ 2402 MHz; Calibrated: 6/25/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1334; Calibrated: 6/18/2018

Phantom: SAM with CRP (Left); Type: SAM; Serial: 1715

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7450)

**Mode: Bluetooth, Right Head, Tilt, Ch 0, 1 Mbps**

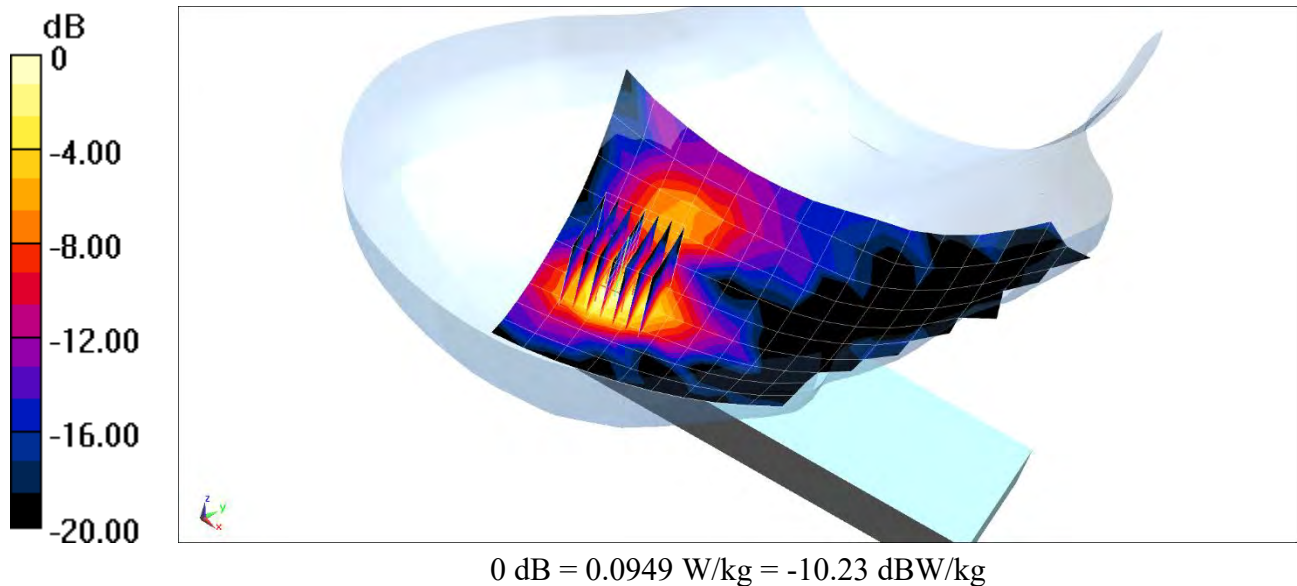
**Area Scan (11x19x1):** Measurement grid:  $dx=12\text{mm}$ ,  $dy=12\text{mm}$

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 6.116 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.118 W/kg

**SAR(1 g) = 0.055 W/kg**



# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1365M**

Communication System: UID 0, GSM; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium: 835 Body Medium parameters used (interpolated):

$f = 836.6 \text{ MHz}$ ;  $\sigma = 0.98 \text{ S/m}$ ;  $\epsilon_r = 54.16$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 02-13-2019; Ambient Temp: 21.9°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN7357; ConvF(10.17, 10.17, 10.17) @ 836.6 MHz; Calibrated: 4/18/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/11/2018

Phantom: SAM with CRP v5.0 Front; Type: QD000P40CD; Serial: 1646

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: GSM 850, Body SAR, Back side, Mid.ch**

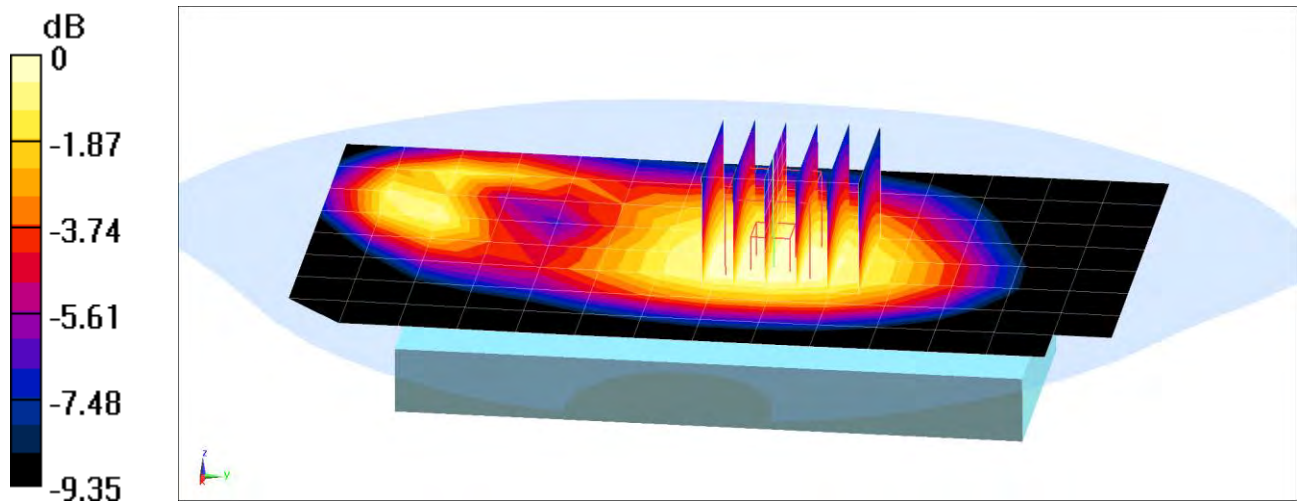
**Area Scan (9x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 15.15 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.292 W/kg

**SAR(1 g) = 0.218 W/kg**



0 dB = 0.266 W/kg = -5.75 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1365M**

Communication System: UID 0, GSM GPRS; 3 Tx slots; Frequency: 836.6 MHz; Duty Cycle: 1:2.76

Medium: 835 Body Medium parameters used (interpolated):

$f = 836.6 \text{ MHz}$ ;  $\sigma = 0.98 \text{ S/m}$ ;  $\epsilon_r = 54.16$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 02-13-2019; Ambient Temp: 21.9°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN7357; ConvF(10.17, 10.17, 10.17) @ 836.6 MHz; Calibrated: 4/18/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/11/2018

Phantom: SAM with CRP v5.0 Front; Type: QD000P40CD; Serial: 1646

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: GPRS 850, Body SAR, Right Edge, Mid.ch, 3 Tx Slots**

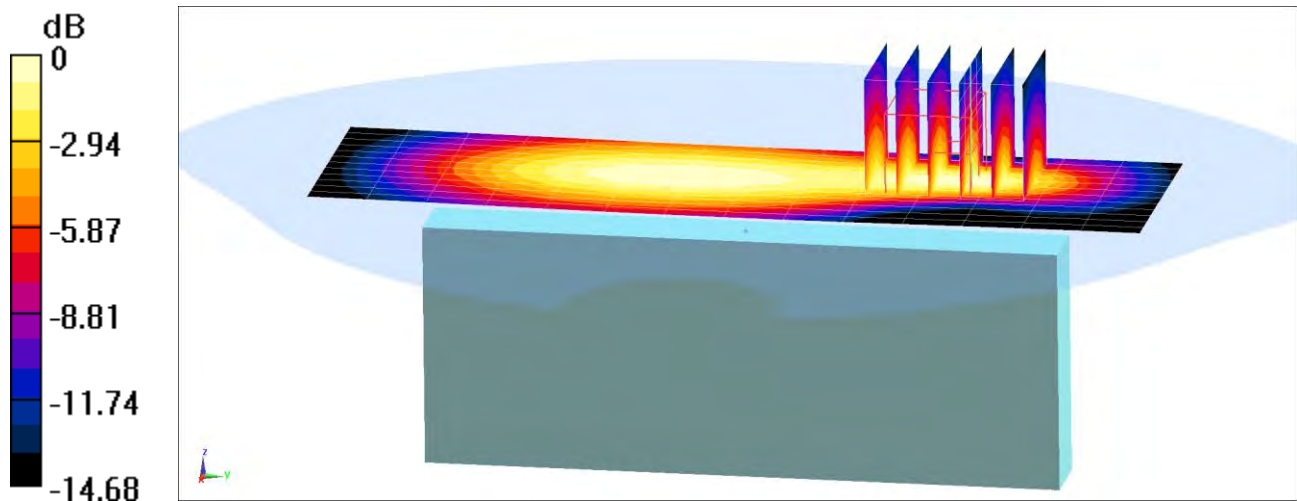
**Area Scan (13x15x1):** Measurement grid:  $dx=5\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x6x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 20.71 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.692 W/kg

**SAR(1 g) = 0.388 W/kg**



0 dB = 0.577 W/kg = -2.39 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1404M**

Communication System: UID 0, GSM; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: 1900 Body Medium parameters used:

$f = 1880 \text{ MHz}$ ;  $\sigma = 1.557 \text{ S/m}$ ;  $\epsilon_r = 53.283$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 02-18-2019; Ambient Temp: 21.0°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7488; ConvF(8.37, 8.37, 8.37) @ 1880 MHz; Calibrated: 1/24/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1530; Calibrated: 1/15/2019

Phantom: SAM Left; Type: QD000P40CC; Serial: TP: 1375

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: GSM 1900, Body SAR, Back side, Mid.ch**

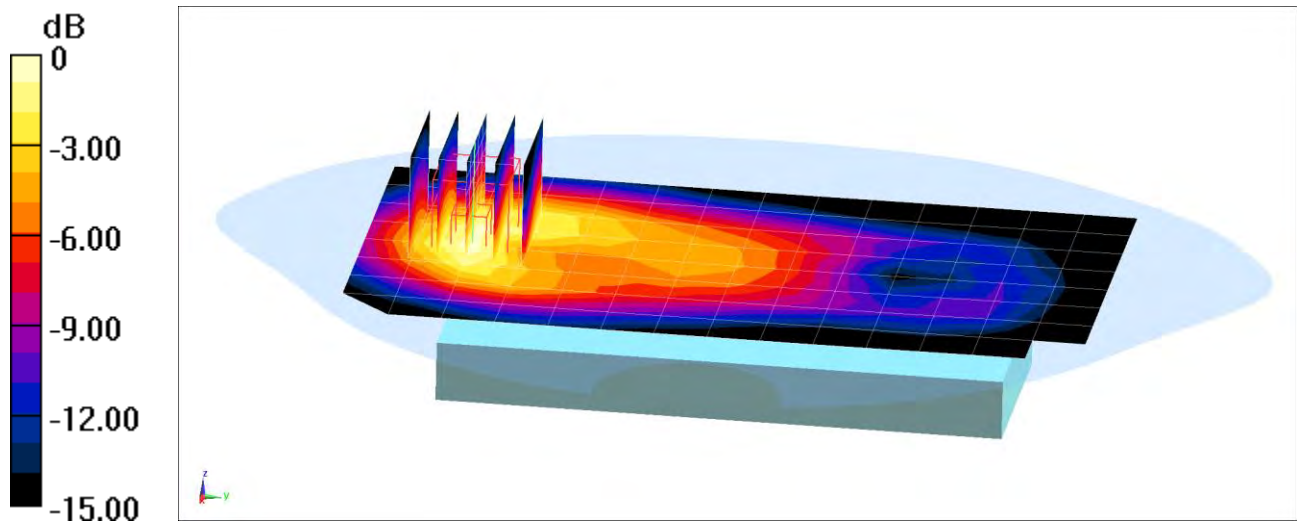
**Area Scan (9x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (6x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 11.24 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.305 W/kg

**SAR(1 g) = 0.182 W/kg**



0 dB = 0.260 W/kg = -5.85 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1404M**

Communication System: UID 0, GSM GPRS; 2 Tx slots; Frequency: 1909.8 MHz; Duty Cycle: 1:4.15

Medium: 1900 Body Medium parameters used:

$f = 1910 \text{ MHz}$ ;  $\sigma = 1.592 \text{ S/m}$ ;  $\epsilon_r = 53.182$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 02-18-2019; Ambient Temp: 21.0°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7488; ConvF(8.37, 8.37, 8.37) @ 1909.8 MHz; Calibrated: 1/24/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1530; Calibrated: 1/15/2019

Phantom: SAM Left; Type: QD000P40CC; Serial: TP: 1375

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: GPRS 1900, Body SAR, Bottom Edge, High.ch, 2 Tx Slots**

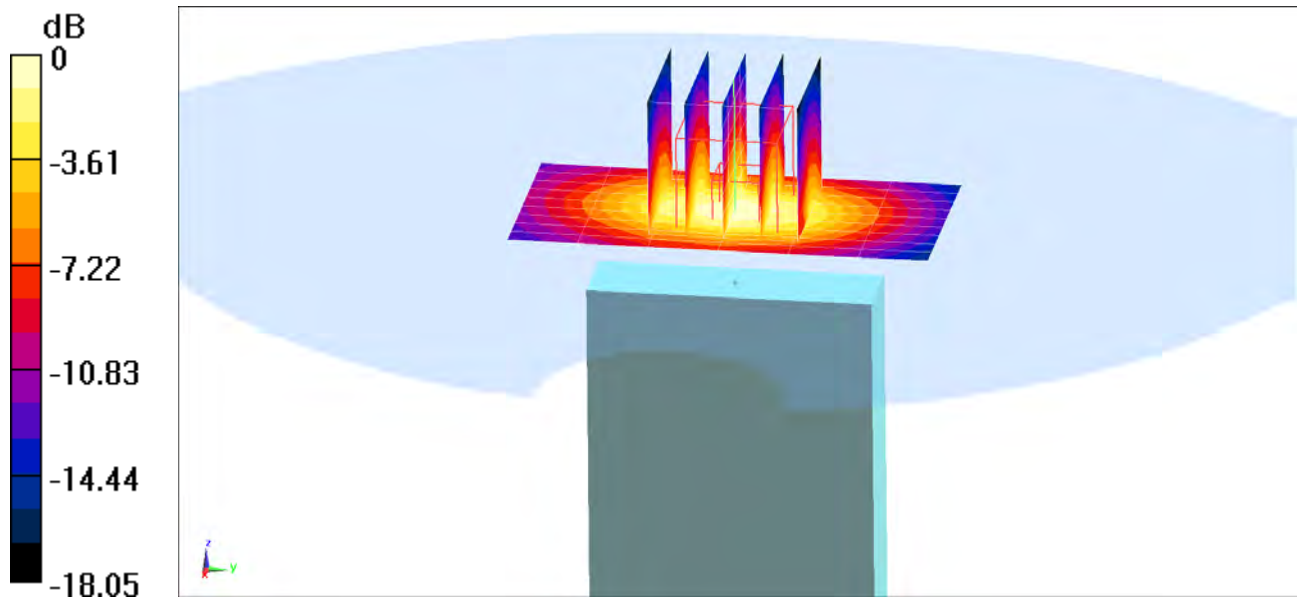
**Area Scan (10x7x1):** Measurement grid:  $dx=5\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 18.55 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.886 W/kg

**SAR(1 g) = 0.507 W/kg**



0 dB = 0.750 W/kg = -1.25 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1366M**

Communication System: UID 0, UMTS; Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium: 835 Body Medium parameters used (interpolated):

$f = 836.6 \text{ MHz}$ ;  $\sigma = 0.98 \text{ S/m}$ ;  $\epsilon_r = 54.16$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 02-13-2019; Ambient Temp: 21.9°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN7357; ConvF(10.17, 10.17, 10.17) @ 836.6 MHz; Calibrated: 4/18/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/11/2018

Phantom: SAM with CRP v5.0 Front; Type: QD000P40CD; Serial: 1646

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: UMTS 850, Body SAR, Back side, Mid.ch**

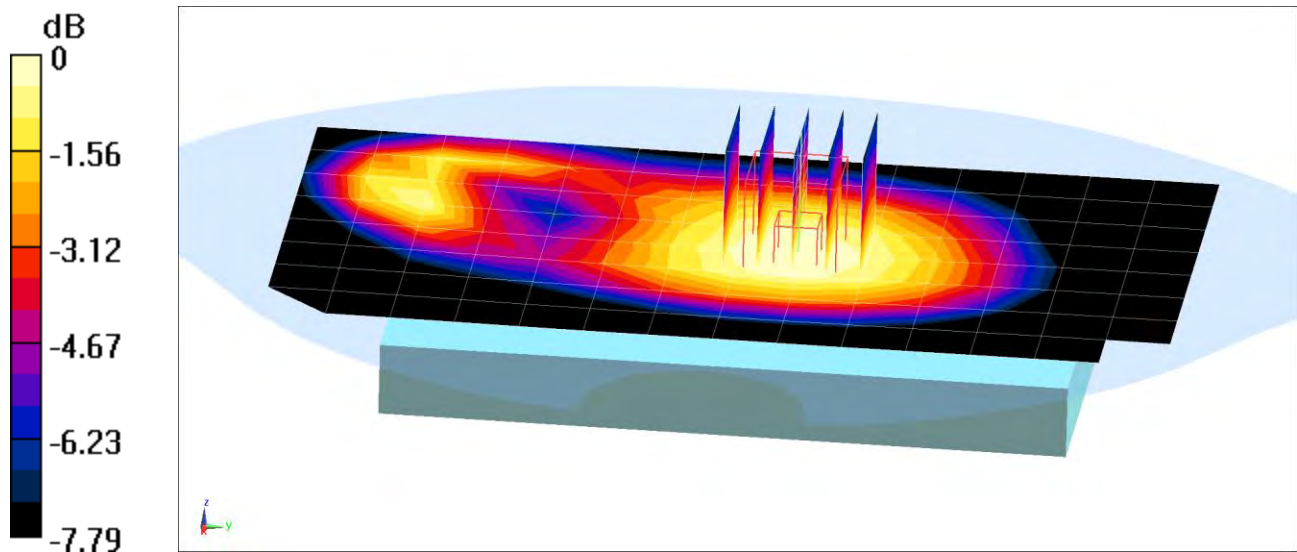
**Area Scan (9x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 14.48 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.259 W/kg

**SAR(1 g) = 0.198 W/kg**



0 dB = 0.238 W/kg = -6.23 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1366M**

Communication System: UID 0, UMTS; Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium: 835 Body Medium parameters used (interpolated):

$f = 836.6 \text{ MHz}$ ;  $\sigma = 0.98 \text{ S/m}$ ;  $\epsilon_r = 54.16$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 02-13-2019; Ambient Temp: 21.9°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN7357; ConvF(10.17, 10.17, 10.17) @ 836.6 MHz; Calibrated: 4/18/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/11/2018

Phantom: SAM with CRP v5.0 Front; Type: QD000P40CD; Serial: 1646

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: UMTS 850, Body SAR, Right Edge, Mid.ch**

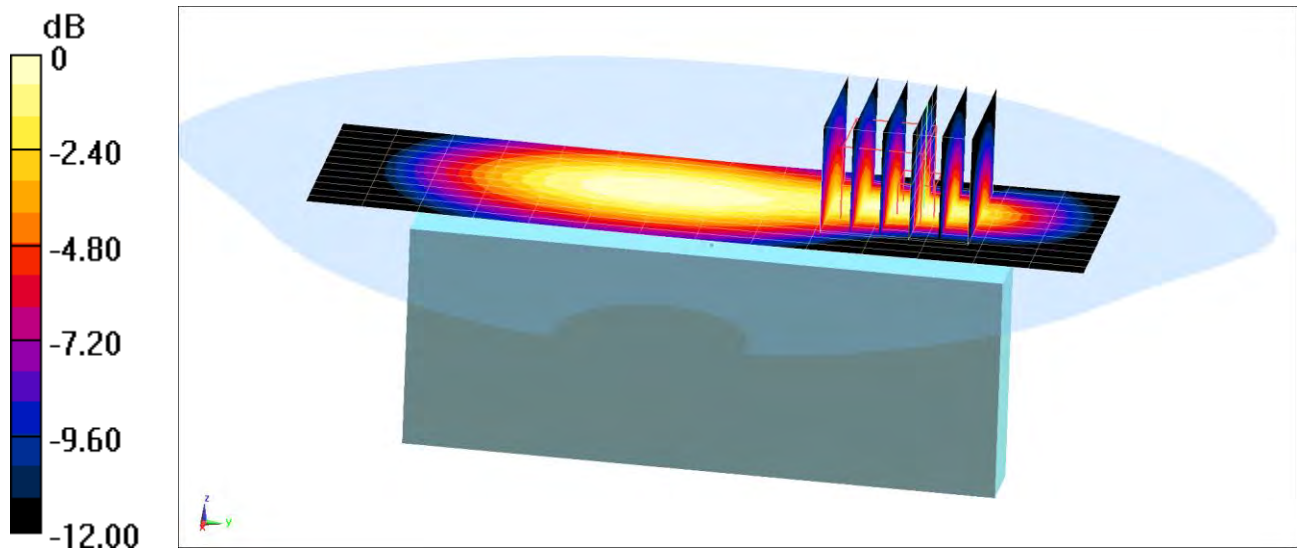
**Area Scan (13x15x1):** Measurement grid:  $dx=5\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 20.65 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.684 W/kg

**SAR(1 g) = 0.382 W/kg**



0 dB = 0.567 W/kg = -2.46 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1362M**

Communication System: UID 0, UMTS; Frequency: 1732.4 MHz; Duty Cycle: 1:1

Medium: 1750 Body; Medium parameters used (interpolated):

$f = 1732.4 \text{ MHz}$ ;  $\sigma = 1.49 \text{ S/m}$ ;  $\epsilon_r = 51.594$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 02-22-2019; Ambient Temp: 23.2°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7410; ConvF(8.06, 8.06, 8.06) @ 1732.4 MHz; Calibrated: 7/20/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2018

Phantom: SAM Left; Type: QD000P40CA; Serial: TP:82355

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: UMTS 1750, Body SAR, Back side, Mid.ch**

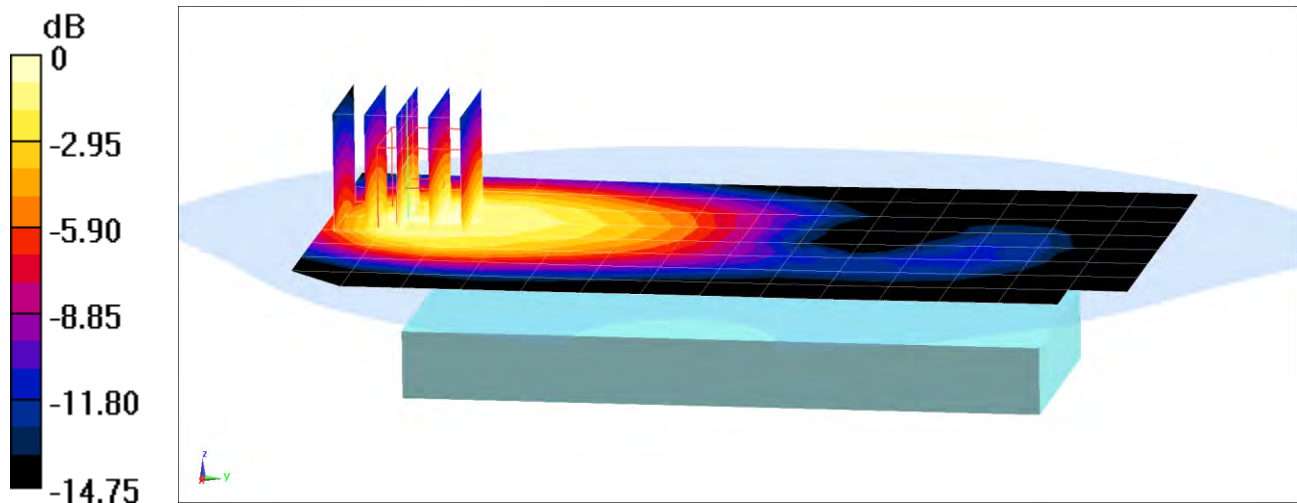
**Area Scan (9x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 19.30 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.802 W/kg

**SAR(1 g) = 0.511 W/kg**



0 dB = 0.691 W/kg = -1.61 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1407M**

Communication System: UID 0, UMTS; Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium: 1750 Body; Medium parameters used (interpolated):

$f = 1752.6 \text{ MHz}$ ;  $\sigma = 1.511 \text{ S/m}$ ;  $\epsilon_r = 51.518$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 02-22-2019; Ambient Temp: 23.2°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7410; ConvF(8.06, 8.06, 8.06) @ 1752.6 MHz; Calibrated: 7/20/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2018

Phantom: SAM Left; Type: QD000P40CA; Serial: TP:82355

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: UMTS 1750, Body SAR, Bottom Edge, High.ch**

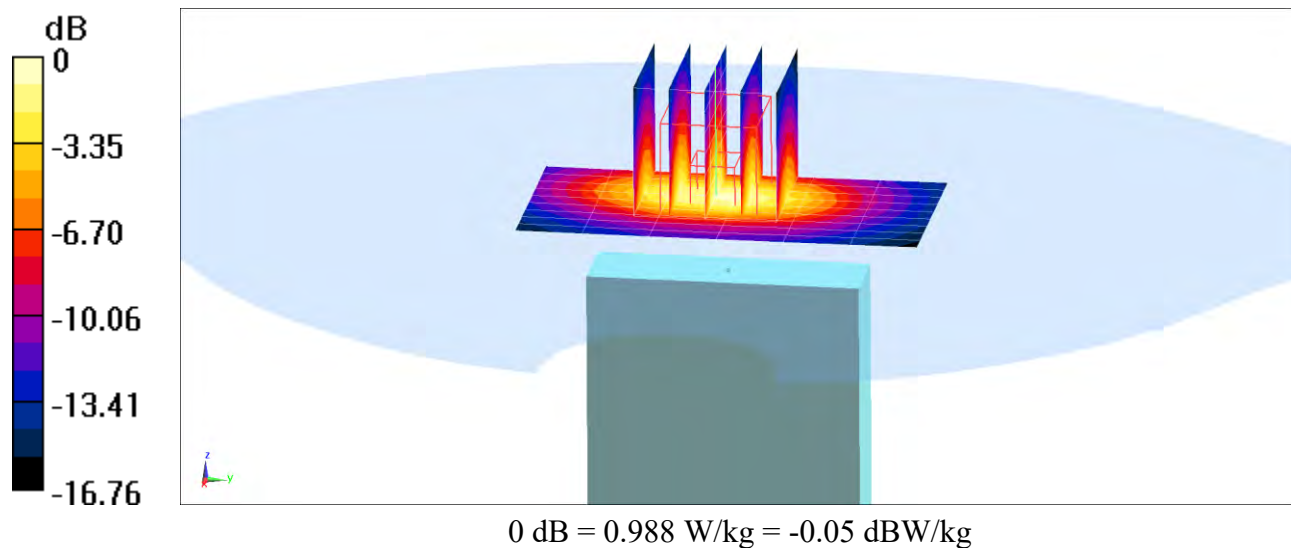
**Area Scan (10x7x1):** Measurement grid:  $dx=5\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 22.26 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.14 W/kg

**SAR(1 g) = 0.662 W/kg**



# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1389M**

Communication System: UID 0, UMTS; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: 1900 Body Medium parameters used:

$f = 1880 \text{ MHz}$ ;  $\sigma = 1.554 \text{ S/m}$ ;  $\epsilon_r = 53.356$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 02-11-2019; Ambient Temp: 21.4°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7488; ConvF(8.37, 8.37, 8.37) @ 1880 MHz; Calibrated: 1/24/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1530; Calibrated: 1/15/2019

Phantom: SAM Left; Type: QD000P40CC; Serial: TP: 1375

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7450)

**Mode: UMTS 1900, Body SAR, Back side, Mid.ch**

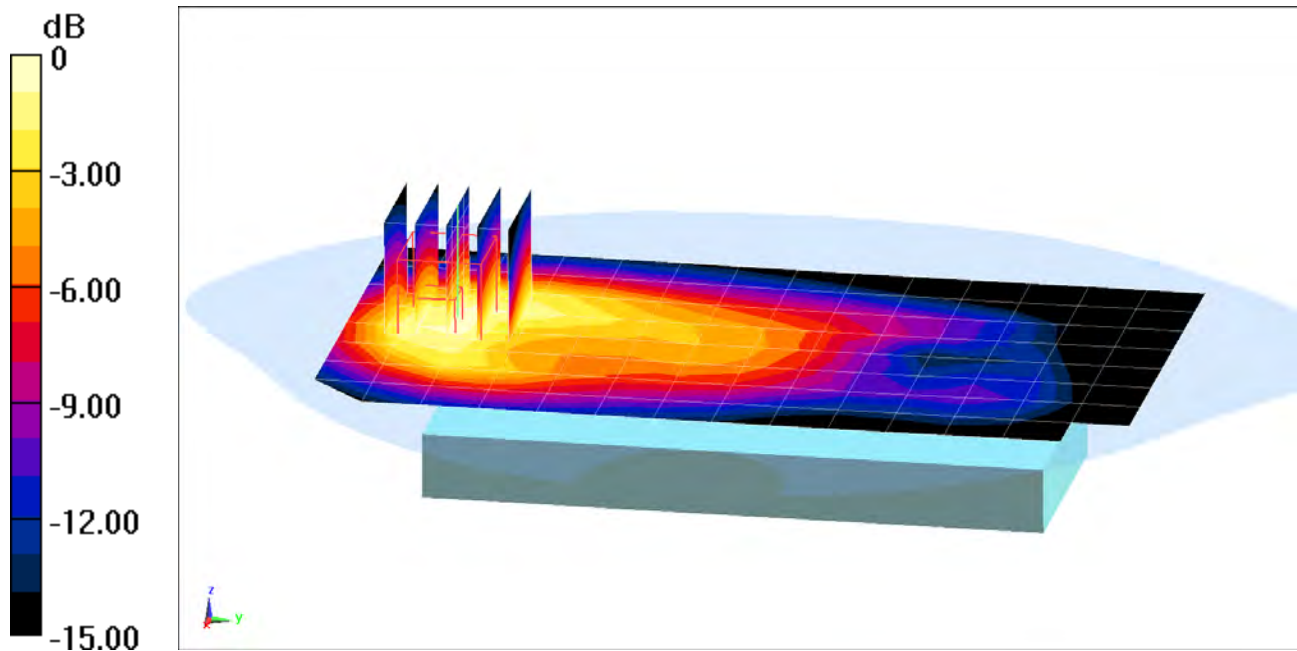
**Area Scan (9x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 15.28 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.566 W/kg

**SAR(1 g) = 0.343 W/kg**



0 dB = 0.474 W/kg = -3.24 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1389M**

Communication System: UID 0, UMTS; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: 1900 Body Medium parameters used (interpolated):

$f = 1907.6 \text{ MHz}$ ;  $\sigma = 1.588 \text{ S/m}$ ;  $\epsilon_r = 53.229$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 02-11-2019; Ambient Temp: 21.4°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7488; ConvF(8.37, 8.37, 8.37) @ 1907.6 MHz; Calibrated: 1/24/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1530; Calibrated: 1/15/2019

Phantom: SAM Left; Type: QD000P40CC; Serial: TP: 1375

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7450)

**Mode: UMTS 1900, Body SAR, Bottom Edge, High.ch**

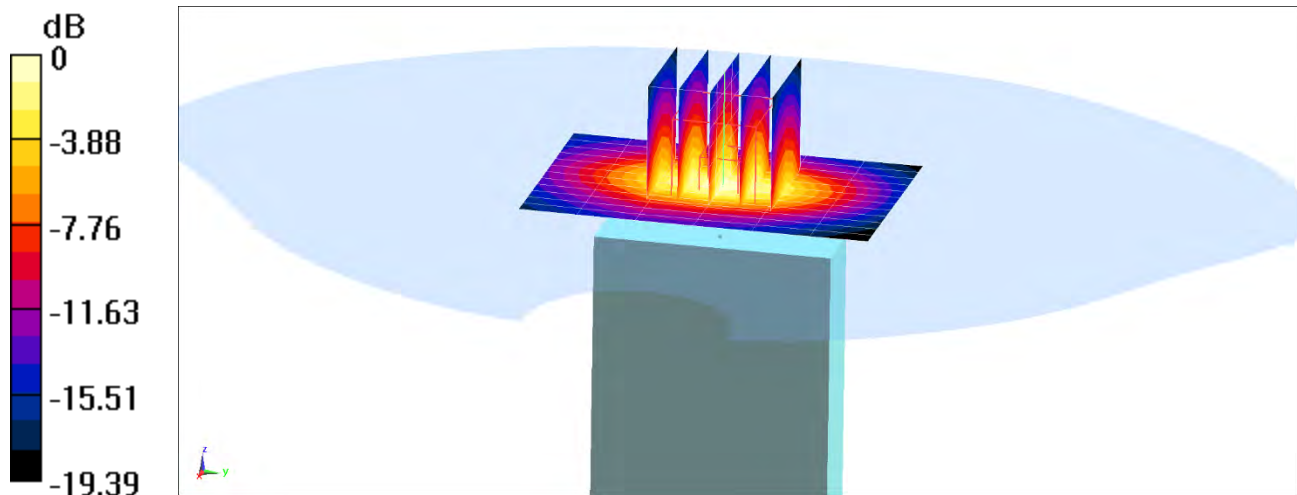
**Area Scan (13x7x1):** Measurement grid: dx=5mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.94 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.47 W/kg

**SAR(1 g) = 0.804 W/kg**



0 dB = 1.24 W/kg = 0.93 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1360M**

Communication System: UID 0, LTE Band 71; Frequency: 680.5 MHz; Duty Cycle: 1:1

Medium: 750 Body Medium parameters used (interpolated):

$f = 680.5 \text{ MHz}$ ;  $\sigma = 0.938 \text{ S/m}$ ;  $\epsilon_r = 53.543$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 02-18-2019; Ambient Temp: 21.6°C; Tissue Temp: 19.9°C

Probe: EX3DV4 - SN3589; ConvF(8.34, 8.34, 8.34) @ 680.5 MHz; Calibrated: 1/25/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1450; Calibrated: 8/22/2018

Phantom: SAM 5.0 front; Type: QD000P40CD; Serial: 1648

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 71, Body SAR, Back side, Mid.ch,  
20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

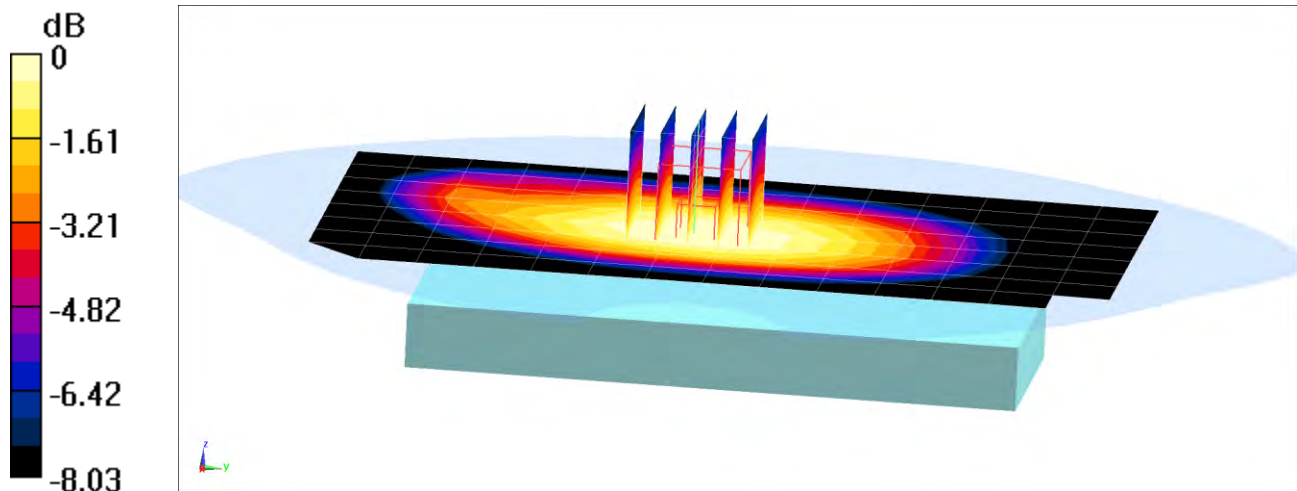
**Area Scan (9x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 17.47 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.377 W/kg

**SAR(1 g) = 0.280 W/kg**



0 dB = 0.342 W/kg = -4.66 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1360M**

Communication System: UID 0, LTE Band 71; Frequency: 680.5 MHz; Duty Cycle: 1:1

Medium: 750 Body Medium parameters used (interpolated):

$f = 680.5$  MHz;  $\sigma = 0.938$  S/m;  $\epsilon_r = 53.543$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 02-18-2019; Ambient Temp: 21.6°C; Tissue Temp: 19.9°C

Probe: EX3DV4 - SN3589; ConvF(8.34, 8.34, 8.34) @ 680.5 MHz; Calibrated: 1/25/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1450; Calibrated: 8/22/2018

Phantom: SAM 5.0 front; Type: QD000P40CD; Serial: 1648

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 71, Body SAR, Right Edge, Mid.ch,  
20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

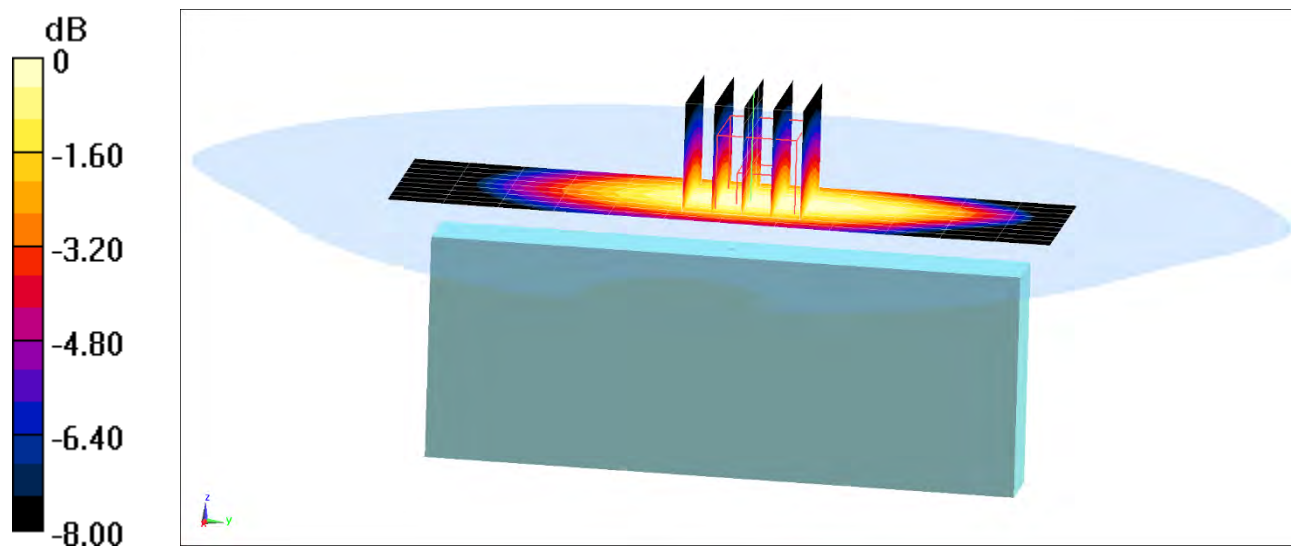
**Area Scan (10x13x1):** Measurement grid: dx=5mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.60 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.894 W/kg

**SAR(1 g) = 0.582 W/kg**



0 dB = 0.777 W/kg = -1.10 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1360M**

Communication System: UID 0, LTE Band 12; Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium: 750 Body Medium parameters used (interpolated):

$f = 707.5 \text{ MHz}$ ;  $\sigma = 0.947 \text{ S/m}$ ;  $\epsilon_r = 53.484$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 02-18-2019; Ambient Temp: 21.6°C; Tissue Temp: 19.9°C

Probe: EX3DV4 - SN3589; ConvF(8.34, 8.34, 8.34) @ 707.5 MHz; Calibrated: 1/25/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1450; Calibrated: 8/22/2018

Phantom: SAM 5.0 front; Type: QD000P40CD; Serial: 1648

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 12, Body SAR, Back side, Mid.ch,  
10 MHz Bandwidth, QPSK, 1 RB, 25 RB Offset**

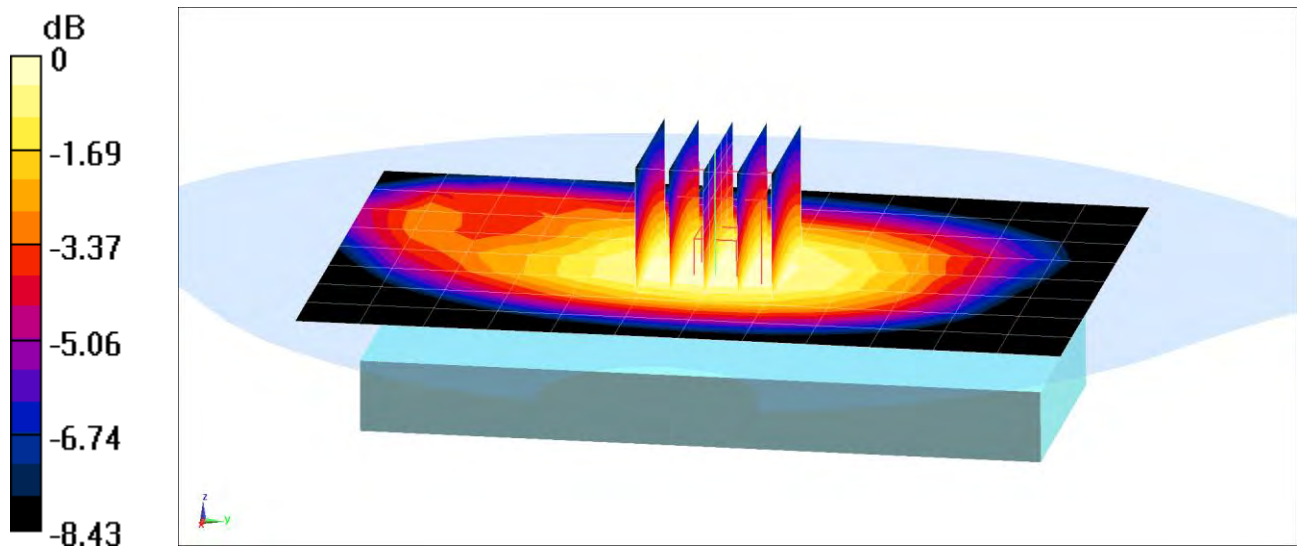
**Area Scan (9x13x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (6x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.38 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.384 W/kg

**SAR(1 g) = 0.283 W/kg**



0 dB = 0.345 W/kg = -4.62 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1360M**

Communication System: UID 0, LTE Band 12; Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium: 750 Body Medium parameters used (interpolated):

$f = 707.5 \text{ MHz}$ ;  $\sigma = 0.947 \text{ S/m}$ ;  $\epsilon_r = 53.484$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 02-18-2019; Ambient Temp: 21.6°C; Tissue Temp: 19.9°C

Probe: EX3DV4 - SN3589; ConvF(8.34, 8.34, 8.34) @ 707.5 MHz; Calibrated: 1/25/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1450; Calibrated: 8/22/2018

Phantom: SAM 5.0 front; Type: QD000P40CD; Serial: 1648

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 12, Body SAR, Right Edge, Mid.ch,  
10 MHz Bandwidth, QPSK, 1 RB, 25 RB Offset**

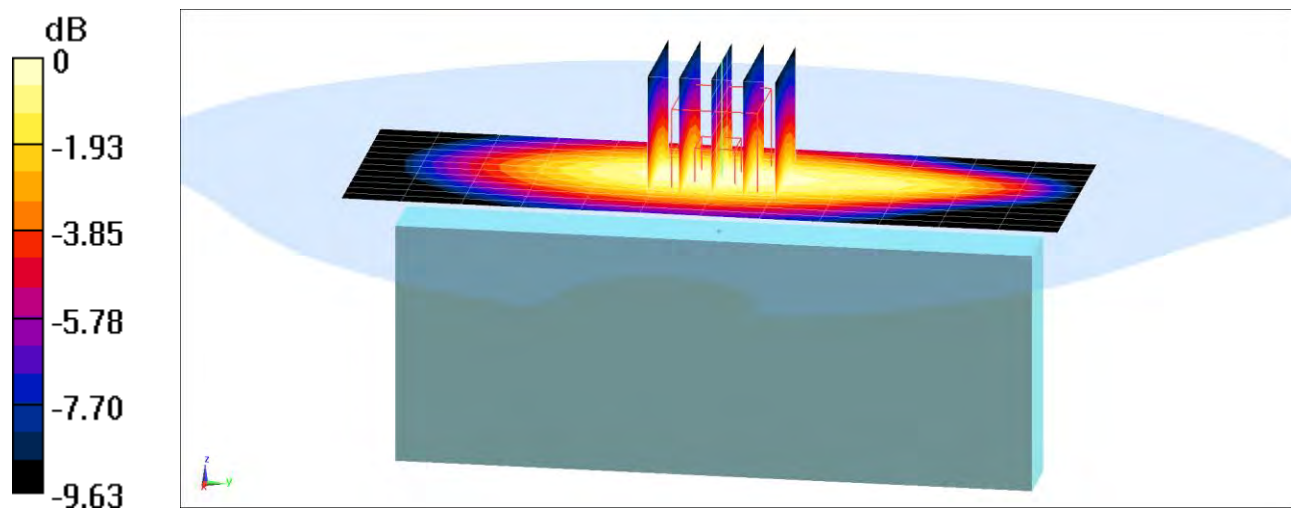
**Area Scan (13x13x1):** Measurement grid:  $dx=5\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 27.35 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.07 W/kg

**SAR(1 g) = 0.698 W/kg**



0 dB = 0.929 W/kg = -0.32 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1389M**

Communication System: UID 0, LTE Band 13; Frequency: 782 MHz; Duty Cycle: 1:1

Medium: 750 Body Medium parameters used (interpolated):

$f = 782 \text{ MHz}$ ;  $\sigma = 0.976 \text{ S/m}$ ;  $\epsilon_r = 53.288$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 02-18-2019; Ambient Temp: 21.6°C; Tissue Temp: 19.9°C

Probe: EX3DV4 - SN3589; ConvF(8.34, 8.34, 8.34) @ 782 MHz; Calibrated: 1/25/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1450; Calibrated: 8/22/2018

Phantom: SAM 5.0 front; Type: QD000P40CD; Serial: 1648

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 13, Body SAR, Back side, Mid.ch,  
10 MHz Bandwidth, QPSK, 1 RB, 49 RB Offset**

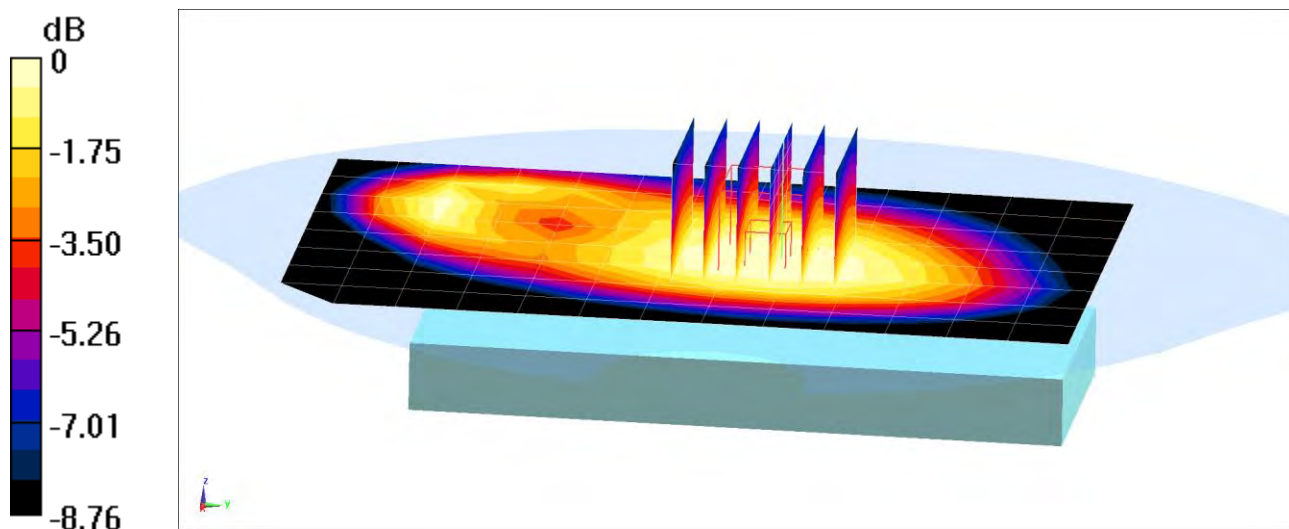
**Area Scan (9x14x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 14.30 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.265 W/kg

**SAR(1 g) = 0.195 W/kg**



0 dB = 0.238 W/kg = -6.23 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1389M**

Communication System: UID 0, LTE Band 13; Frequency: 782 MHz; Duty Cycle: 1:1

Medium: 750 Body Medium parameters used (interpolated):

$f = 782 \text{ MHz}$ ;  $\sigma = 0.976 \text{ S/m}$ ;  $\epsilon_r = 53.288$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 02-18-2019; Ambient Temp: 21.6°C; Tissue Temp: 19.9°C

Probe: EX3DV4 - SN3589; ConvF(8.34, 8.34, 8.34) @ 782 MHz; Calibrated: 1/25/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1450; Calibrated: 8/22/2018

Phantom: SAM 5.0 front; Type: QD000P40CD; Serial: 1648

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 13, Body SAR, Right Edge, Mid.ch,  
10 MHz Bandwidth, QPSK, 1 RB, 49 RB Offset**

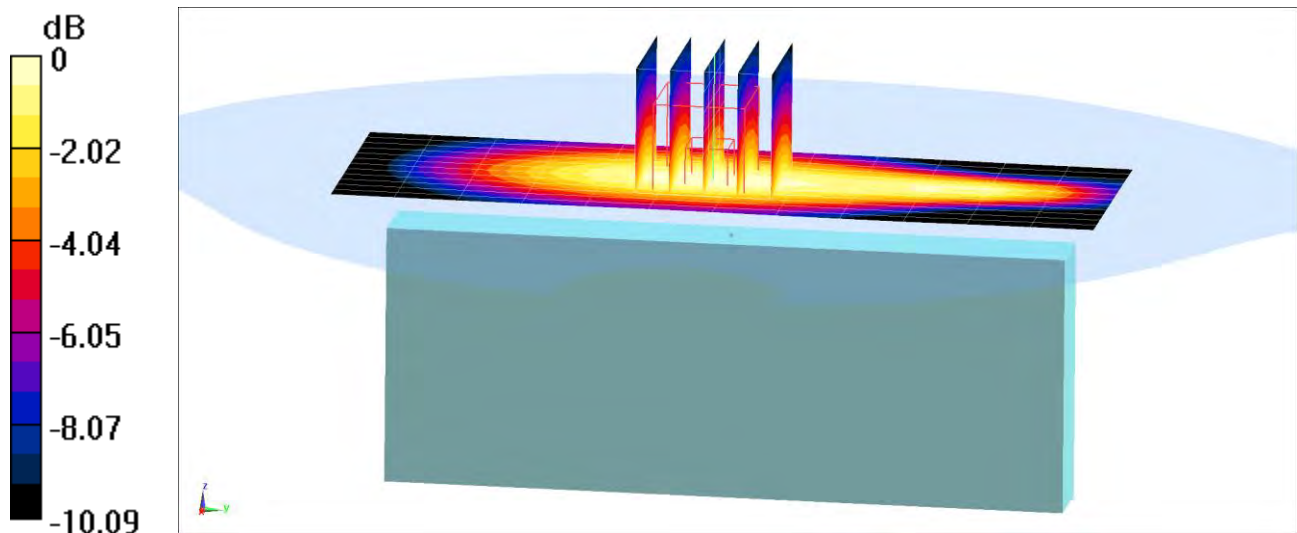
**Area Scan (13x13x1):** Measurement grid:  $dx=5\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 20.98 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.644 W/kg

**SAR(1 g) = 0.416 W/kg**



0 dB = 0.561 W/kg = -2.51 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1389M**

Communication System: UID 0, LTE Band 14; Frequency: 793 MHz; Duty Cycle: 1:1

Medium: 750 Body Medium parameters used (interpolated):

$f = 793 \text{ MHz}$ ;  $\sigma = 0.98 \text{ S/m}$ ;  $\epsilon_r = 53.259$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 02-18-2019; Ambient Temp: 21.6°C; Tissue Temp: 19.9°C

Probe: EX3DV4 - SN3589; ConvF(8.34, 8.34, 8.34) @ 793 MHz; Calibrated: 1/25/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1450; Calibrated: 8/22/2018

Phantom: SAM 5.0 front; Type: QD000P40CD; Serial: 1648

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 14, Body SAR, Back side, Mid.ch,  
10 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

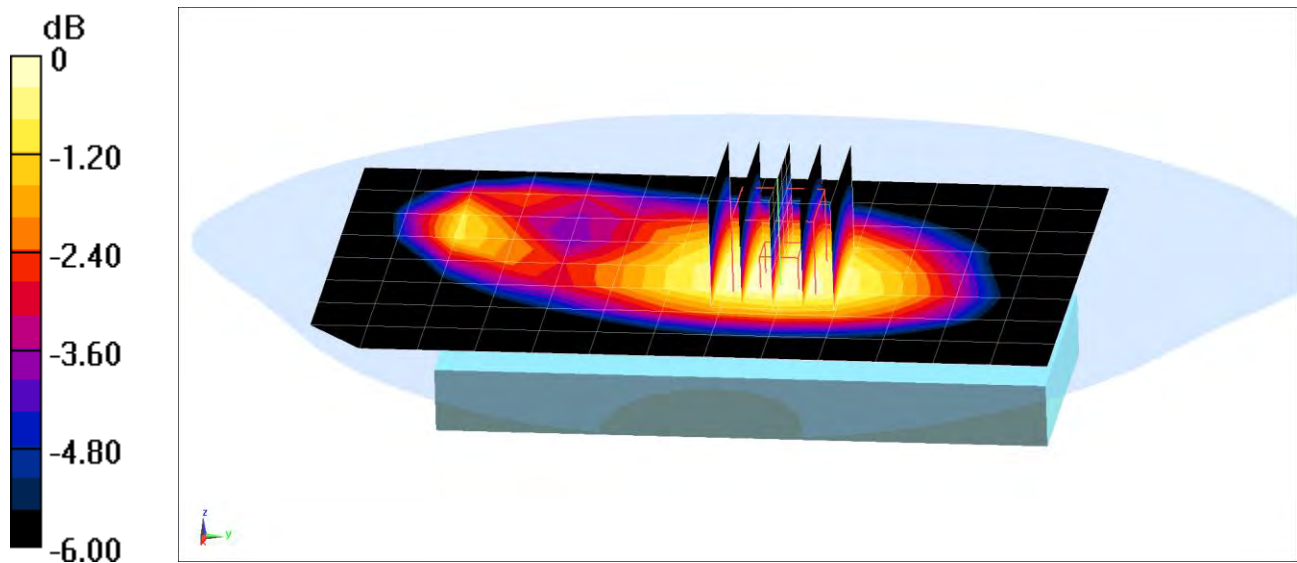
**Area Scan (9x14x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (6x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 14.85 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.293 W/kg

**SAR(1 g) = 0.212 W/kg**



0 dB = 0.262 W/kg = -5.82 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1389M**

Communication System: UID 0, LTE Band 14; Frequency: 793 MHz; Duty Cycle: 1:1

Medium: 750 Body Medium parameters used (interpolated):

$f = 793 \text{ MHz}$ ;  $\sigma = 0.98 \text{ S/m}$ ;  $\epsilon_r = 53.259$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 02-18-2019; Ambient Temp: 21.6°C; Tissue Temp: 19.9°C

Probe: EX3DV4 - SN3589; ConvF(8.34, 8.34, 8.34) @ 793 MHz; Calibrated: 1/25/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1450; Calibrated: 8/22/2018

Phantom: SAM 5.0 front; Type: QD000P40CD; Serial: 1648

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 14, Body SAR, Right Edge, Mid.ch,  
10 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

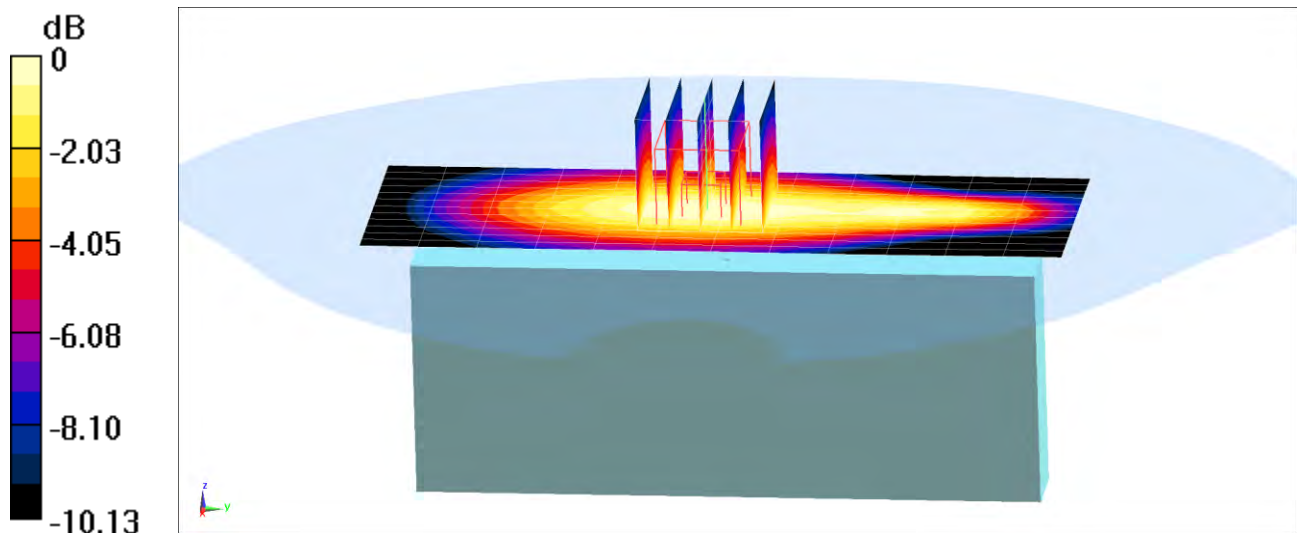
**Area Scan (13x13x1):** Measurement grid:  $dx=5\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 21.28 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.651 W/kg

**SAR(1 g) = 0.427 W/kg**



0 dB = 0.569 W/kg = -2.45 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1366M**

Communication System: UID 0, LTE Band 26; Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium: 835 Body Medium parameters used (interpolated):

$f = 831.5 \text{ MHz}$ ;  $\sigma = 0.974 \text{ S/m}$ ;  $\epsilon_r = 54.214$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 02-13-2019; Ambient Temp: 21.9°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN7357; ConvF(10.17, 10.17, 10.17) @ 831.5 MHz; Calibrated: 4/18/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/11/2018

Phantom: SAM with CRP v5.0 Front; Type: QD000P40CD; Serial: 1646

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 26 (Cell.), Body SAR, Back side, Mid.ch,  
15 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

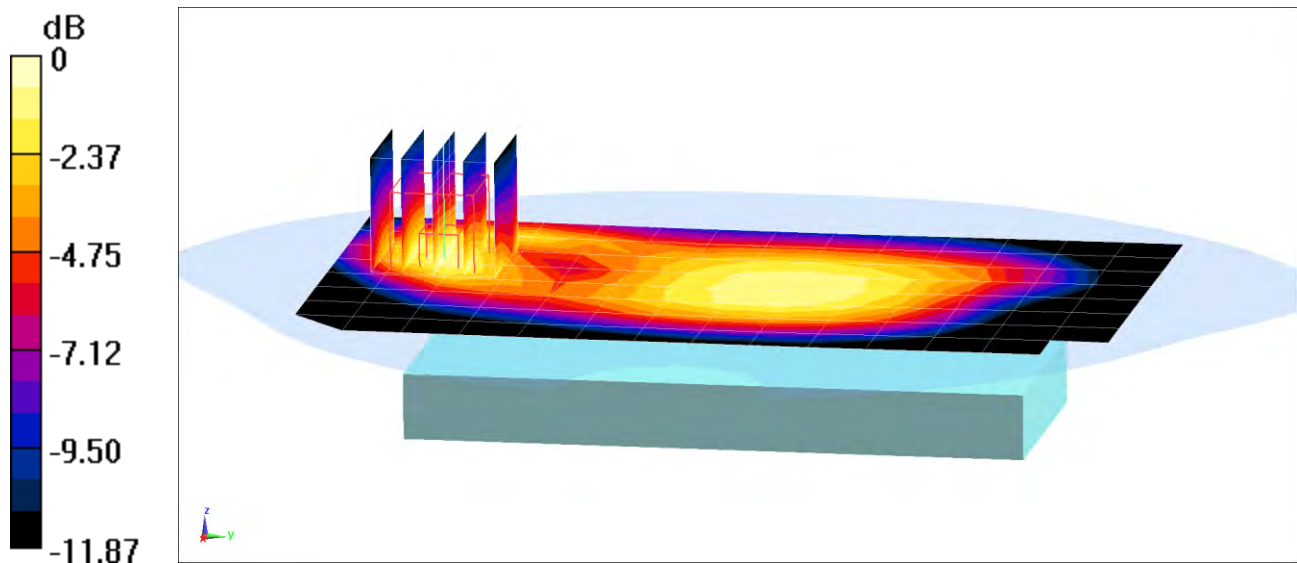
**Area Scan (9x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 12.69 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.239 W/kg

**SAR(1 g) = 0.147 W/kg**



0 dB = 0.204 W/kg = -6.90 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1366M**

Communication System: UID 0, LTE Band 26; Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium: 835 Body Medium parameters used (interpolated):

$f = 831.5$  MHz;  $\sigma = 0.974$  S/m;  $\epsilon_r = 54.214$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 02-13-2019; Ambient Temp: 21.9°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN7357; ConvF(10.17, 10.17, 10.17) @ 831.5 MHz; Calibrated: 4/18/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/11/2018

Phantom: SAM with CRP v5.0 Front; Type: QD000P40CD; Serial: 1646

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 26 (Cell.), Body SAR, Right Edge, Mid.ch,  
15 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

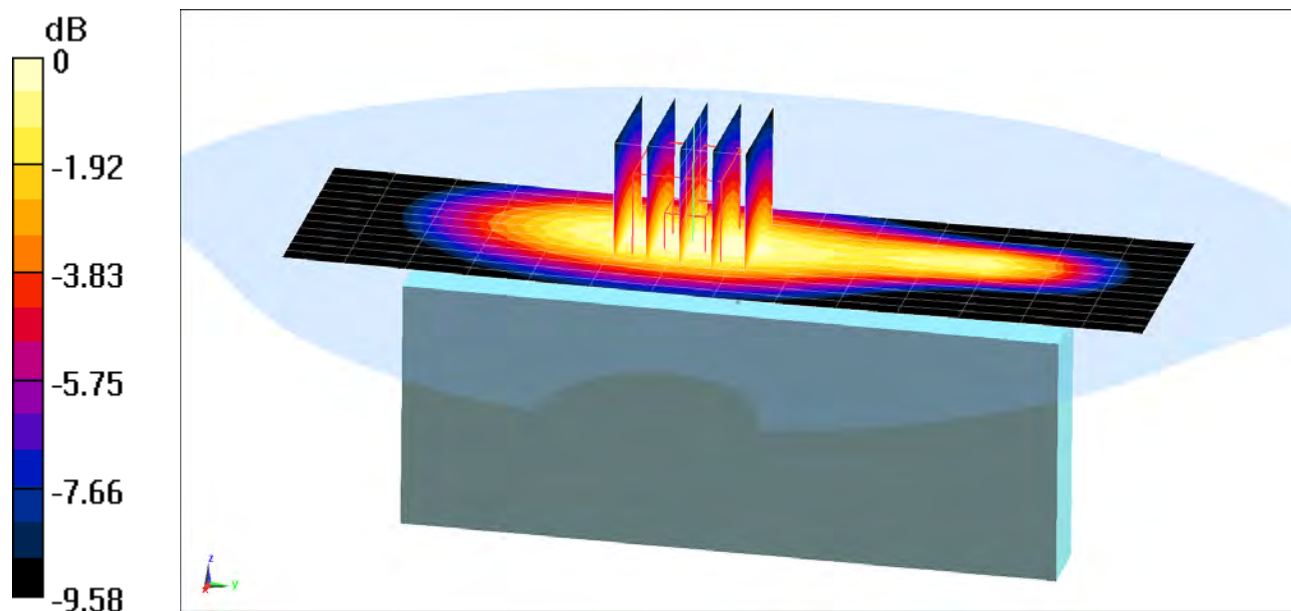
**Area Scan (13x15x1):** Measurement grid: dx=5mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.82 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.700 W/kg

**SAR(1 g) = 0.479 W/kg**



0 dB = 0.623 W/kg = -2.06 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1362M**

Communication System: UID 0, LTE Band 66 (AWS); Frequency: 1720 MHz; Duty Cycle: 1:1

Medium: 1750 Body; Medium parameters used (interpolated):

$f = 1720 \text{ MHz}$ ;  $\sigma = 1.422 \text{ S/m}$ ;  $\epsilon_r = 52.624$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 2-20-2019; Ambient Temp: 22.6°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN7410; ConvF(8.06, 8.06, 8.06) @ 1720 MHz; Calibrated: 7/20/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2018

Phantom: SAM Left; Type: QD000P40CA; Serial: TP:82355

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 66 (AWS), Body SAR, Back side, Low.ch,  
20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

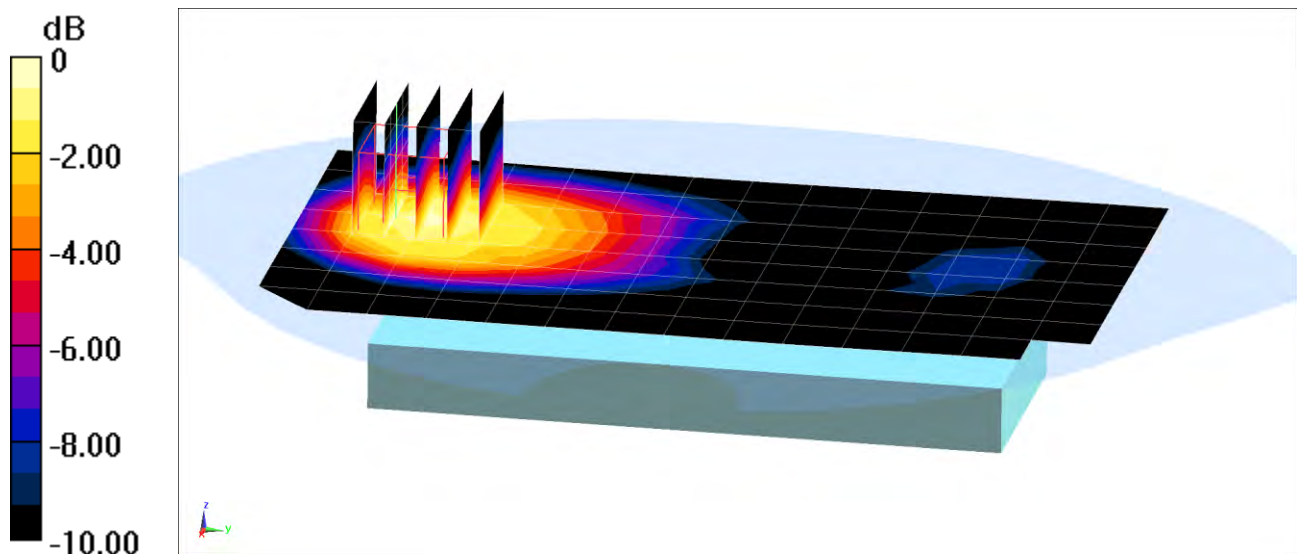
**Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.03 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.666 W/kg

**SAR(1 g) = 0.421 W/kg**



0 dB = 0.575 W/kg = -2.40 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1362M**

Communication System: UID 0, LTE Band 66 (AWS); Frequency: 1770 MHz; Duty Cycle: 1:1

Medium: 1750 Body; Medium parameters used (interpolated):

$f = 1770 \text{ MHz}$ ;  $\sigma = 1.535 \text{ S/m}$ ;  $\epsilon_r = 52.06$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 03-07-2019; Ambient Temp: 22.6°C; Tissue Temp: 20.9°C

Probe: EX3DV4 - SN7410; ConvF(8.06, 8.06, 8.06) @ 1770 MHz; Calibrated: 7/20/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2018

Phantom: SAM Left; Type: QD000P40CA; Serial: TP:82355

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 66 (AWS), ULCA CA\_66C, Body SAR, Bottom Edge,**

**PCC: 20 MHz Bandwidth, QPSK, Ch. 132572, 50 RB, 0 RB Offset**

**SCC: 20 MHz Bandwidth, QPSK, Ch. 132374, 50 RB, 50 RB Offset**

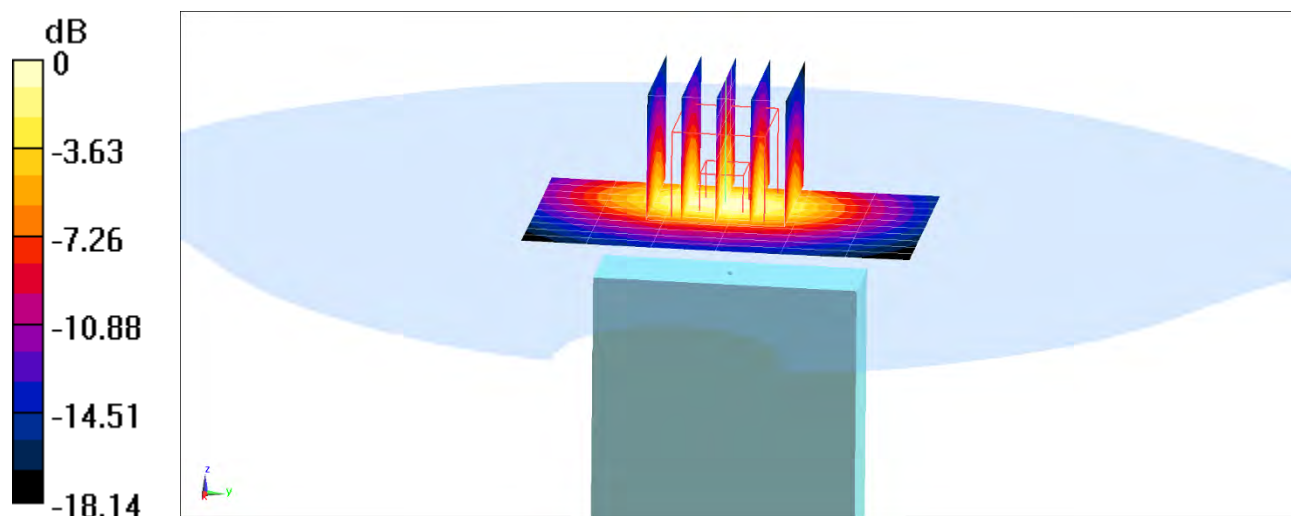
**Area Scan (11x7x1):** Measurement grid:  $dx=5\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 24.87 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.45 W/kg

**SAR(1 g) = 0.831 W/kg**



0 dB = 1.25 W/kg = 0.97 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1389M**

Communication System: UID 0, LTE Band 25 (PCS); Frequency: 1860 MHz; Duty Cycle: 1:1

Medium: 1900 Body Medium parameters used (interpolated):

$f = 1860 \text{ MHz}$ ;  $\sigma = 1.53 \text{ S/m}$ ;  $\epsilon_r = 53.438$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 02-11-2019; Ambient Temp: 21.4°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7488; ConvF(8.37, 8.37, 8.37) @ 1860 MHz; Calibrated: 1/24/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1530; Calibrated: 1/15/2019

Phantom: SAM Left; Type: QD000P40CC; Serial: TP: 1375

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 25 (PCS), Body SAR, Back side, Low.ch,  
20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

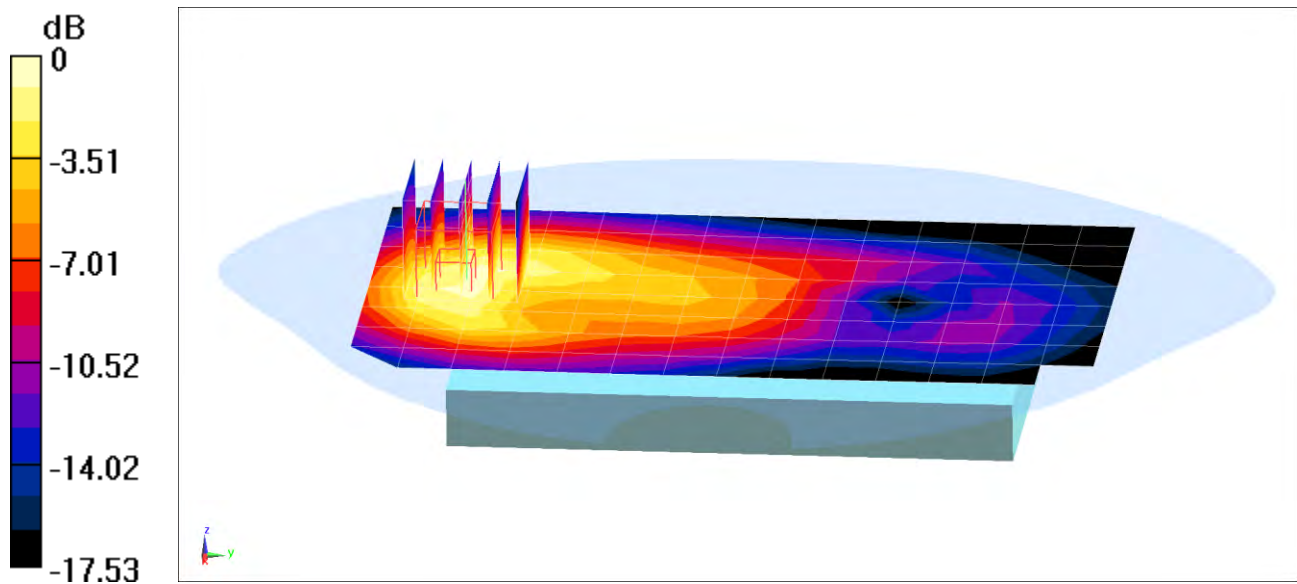
**Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.39 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.557 W/kg

**SAR(1 g) = 0.339 W/kg**



0 dB = 0.476 W/kg = -3.22 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1389M**

Communication System: UID 0, LTE Band 25 (PCS); Frequency: 1905 MHz; Duty Cycle: 1:1

Medium: 1900 Body Medium parameters used (interpolated):

$f = 1905 \text{ MHz}$ ;  $\sigma = 1.585 \text{ S/m}$ ;  $\epsilon_r = 53.241$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 02-11-2019; Ambient Temp: 21.4°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7488; ConvF(8.37, 8.37, 8.37) @ 1905 MHz; Calibrated: 1/24/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1530; Calibrated: 1/15/2019

Phantom: SAM Left; Type: QD000P40CC; Serial: TP: 1375

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 25 (PCS), Body SAR, Bottom Edge, High.ch,  
20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

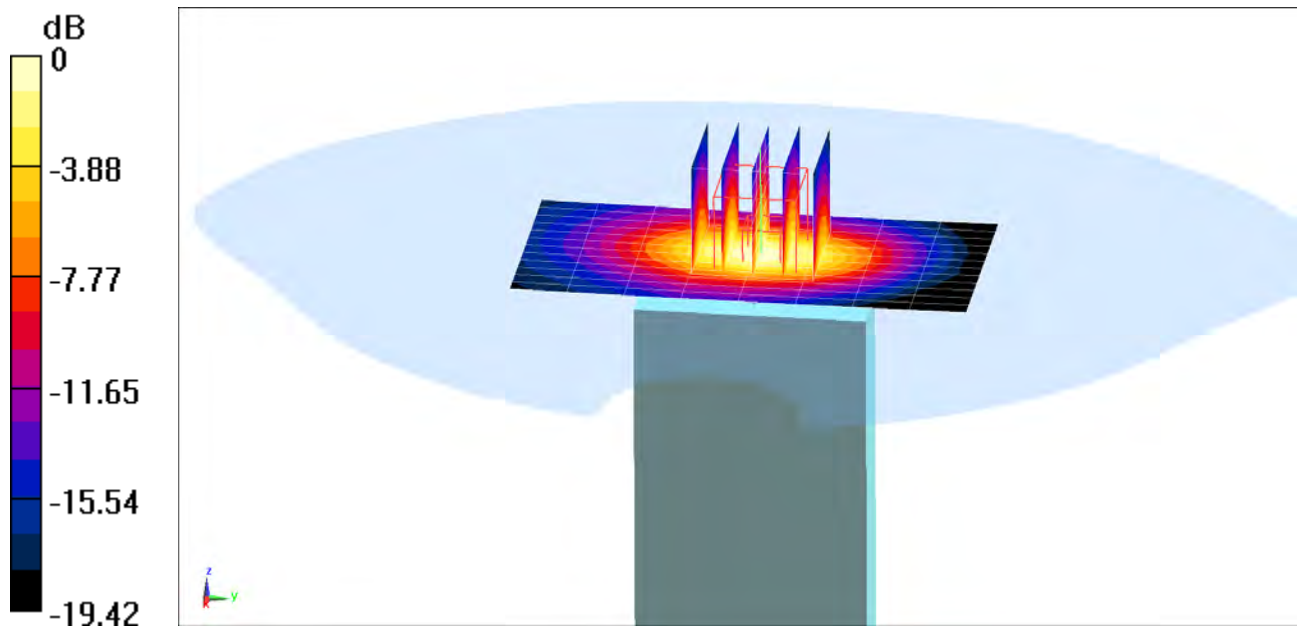
**Area Scan (13x9x1):** Measurement grid:  $dx=5\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 23.58 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.41 W/kg

**SAR(1 g) = 0.776 W/kg**



0 dB = 1.19 W/kg = 0.76 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1404M**

Communication System: UID 0, LTE Band 30; Frequency: 2310 MHz; Duty Cycle: 1:1

Medium: 2450 MHz Body; Medium parameters used:

$f = 2310 \text{ MHz}$ ;  $\sigma = 1.901 \text{ S/m}$ ;  $\epsilon_r = 53.517$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 03-06-2019; Ambient Temp: 22.6°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN7308; ConvF(7.73, 7.73, 7.73) @ 2310 MHz; Calibrated: 8/23/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1558; Calibrated: 10/3/2018

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1630

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 30, Body SAR, Back side, Mid.ch,  
10 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

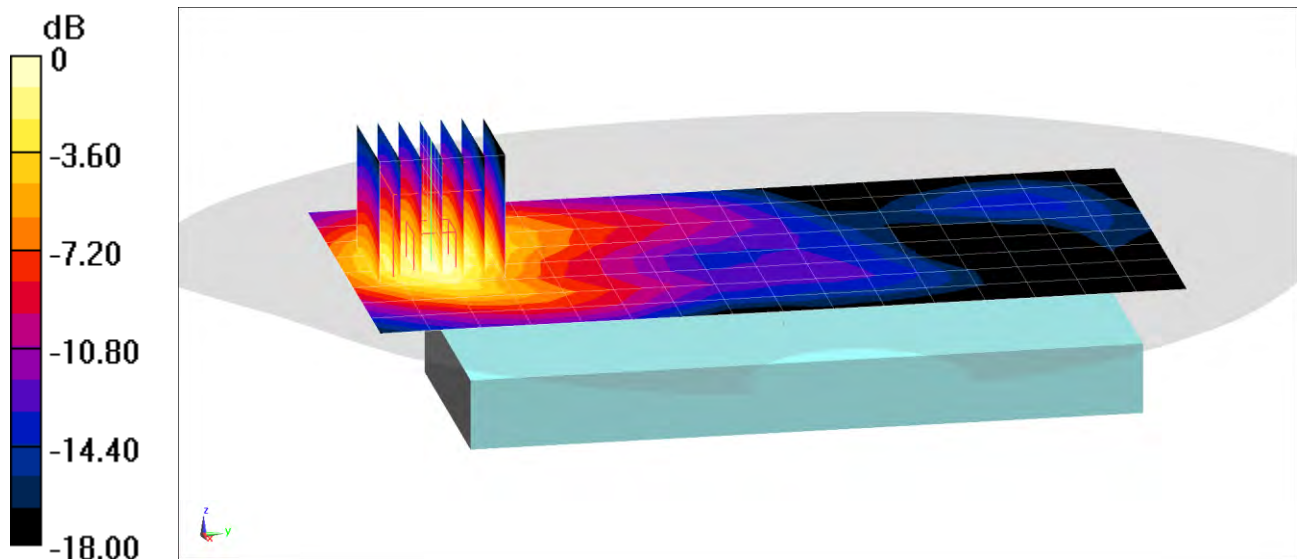
**Area Scan (9x17x1):** Measurement grid: dx=12mm, dy=12mm

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.65 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.579 W/kg

**SAR(1 g) = 0.318 W/kg**



0 dB = 0.485 W/kg = -3.14 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1404M**

Communication System: UID 0, LTE Band 30; Frequency: 2310 MHz; Duty Cycle: 1:1

Medium: 2450 MHz Body; Medium parameters used:

$f = 2310 \text{ MHz}$ ;  $\sigma = 1.901 \text{ S/m}$ ;  $\epsilon_r = 53.517$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 03-06-2019; Ambient Temp: 22.6°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN7308; ConvF(7.73, 7.73, 7.73) @ 2310 MHz; Calibrated: 8/23/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1558; Calibrated: 10/3/2018

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1630

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 30, Body SAR, Bottom Edge, Mid.ch,  
10 MHz Bandwidth, QPSK, 25 RB, 12 RB Offset**

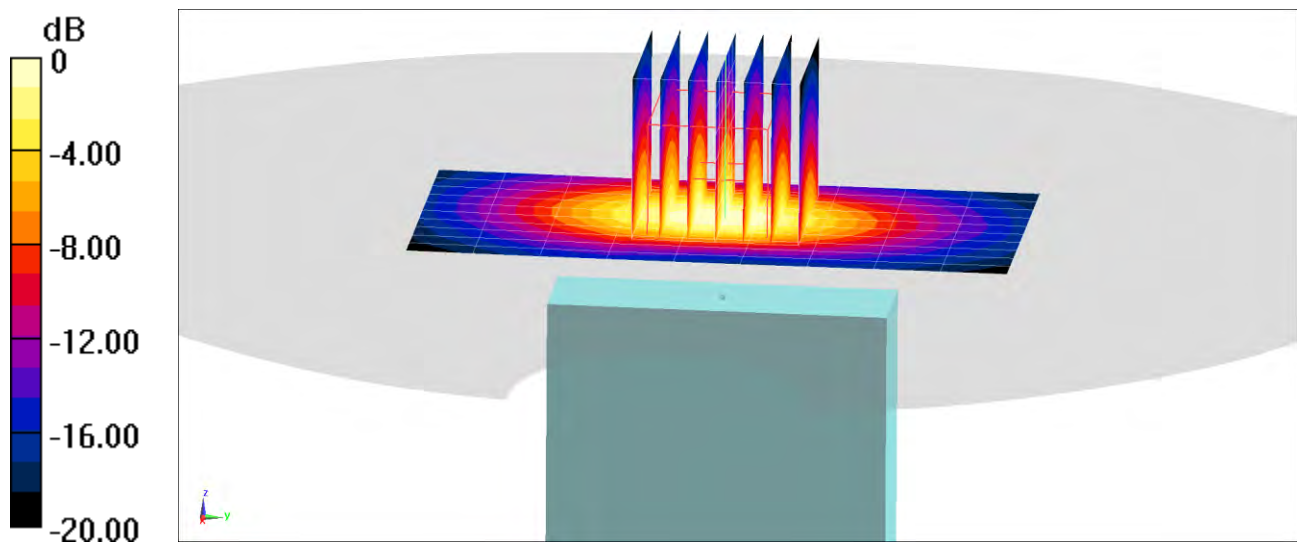
**Area Scan (11x10x1):** Measurement grid: dx=5mm, dy=12mm

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.10 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.28 W/kg

**SAR(1 g) = 0.665 W/kg**



0 dB = 1.05 W/kg = 0.21 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1404M**

Communication System: UID 0, LTE Band 7; Frequency: 2510 MHz; Duty Cycle: 1:1

Medium: 2450 MHz Body; Medium parameters used (interpolated):

$f = 2510 \text{ MHz}$ ;  $\sigma = 2.082 \text{ S/m}$ ;  $\epsilon_r = 51.977$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 03-01-2019; Ambient Temp: 22.8°C; Tissue Temp: 19.8°C

Probe: EX3DV4 - SN7308; ConvF(7.57, 7.57, 7.57) @ 2510 MHz; Calibrated: 8/23/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1558; Calibrated: 10/3/2018

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1630

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 7, Body SAR, Back side, Low.ch,  
20 MHz Bandwidth, QPSK, 1 RB, 99 RB Offset**

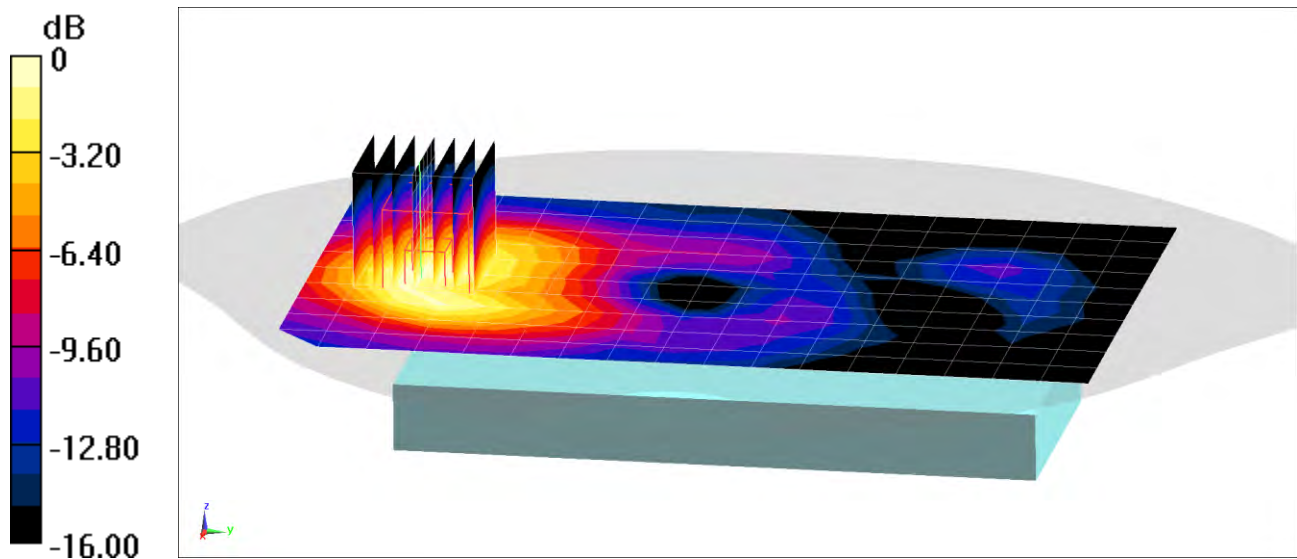
**Area Scan (11x18x1):** Measurement grid:  $dx=12\text{mm}$ ,  $dy=12\text{mm}$

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 11.66 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.530 W/kg

**SAR(1 g) = 0.274 W/kg**



0 dB = 0.424 W/kg = -3.73 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1390M**

Communication System: UID 0, LTE Band 7; Frequency: 2510 MHz; Duty Cycle: 1:1

Medium: 2450 MHz Body; Medium parameters used (interpolated):

$f = 2510 \text{ MHz}$ ;  $\sigma = 2.095 \text{ S/m}$ ;  $\epsilon_r = 54.389$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 03-04-2019; Ambient Temp: 21.9°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7308; ConvF(7.57, 7.57, 7.57) @ 2510 MHz; Calibrated: 8/23/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1558; Calibrated: 10/3/2018

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1630

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 7, Body SAR, Bottom Edge, Low.ch,  
20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

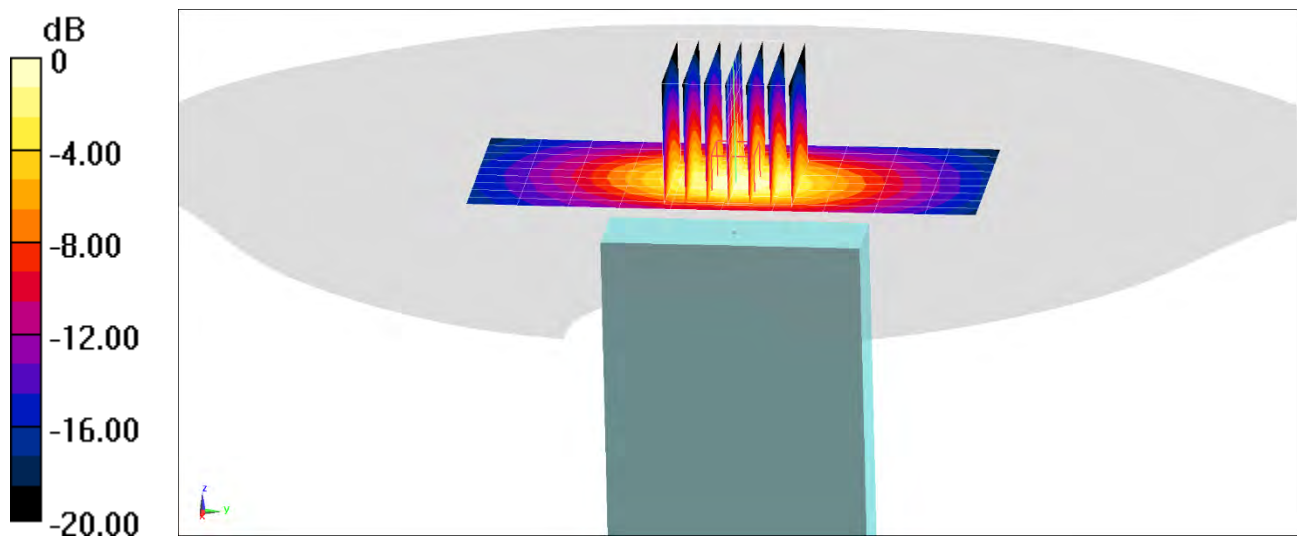
**Area Scan (10x11x1):** Measurement grid:  $dx=5\text{mm}$ ,  $dy=12\text{mm}$

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 20.12 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.48 W/kg

**SAR(1 g) = 0.762 W/kg**



0 dB = 1.23 W/kg = 0.90 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1404M**

Communication System: UID 0, LTE Band 41; Frequency: 2636.5 MHz; Duty Cycle: 1:1.58

Medium: 2450 MHz Body; Medium parameters used (interpolated):

$f = 2636.5 \text{ MHz}$ ;  $\sigma = 2.223 \text{ S/m}$ ;  $\epsilon_r = 54.191$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 03-04-2019; Ambient Temp: 21.9°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7308; ConvF(7.4, 7.4, 7.4) @ 2636.5 MHz; Calibrated: 8/23/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1558; Calibrated: 10/3/2018

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1630

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 41, Body SAR, Back side, Mid-High.ch,  
20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

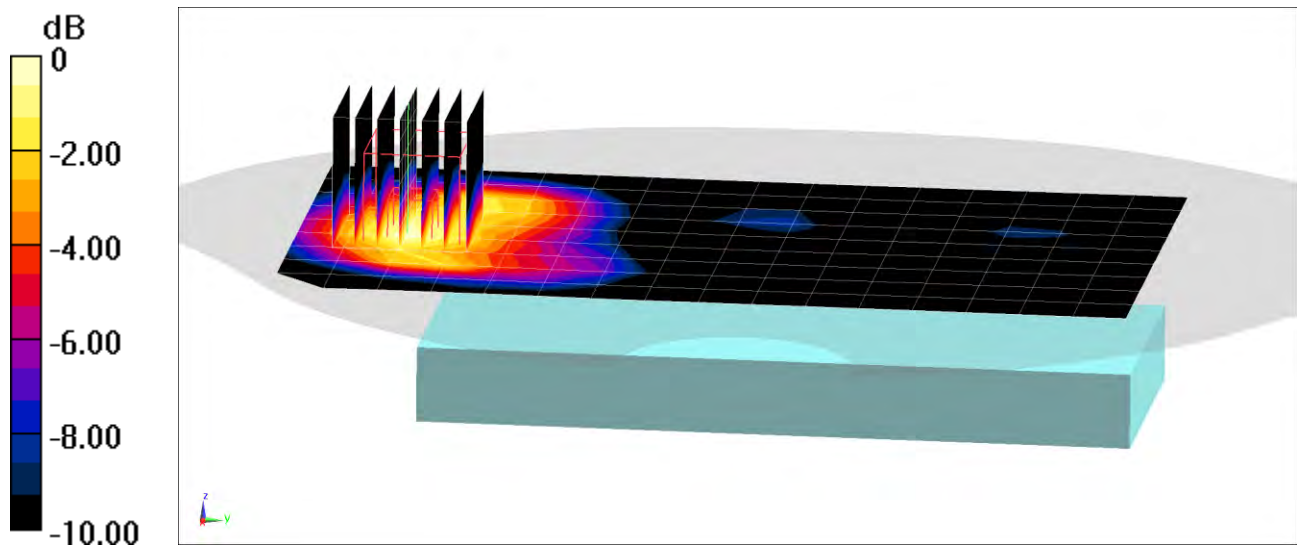
**Area Scan (10x17x1):** Measurement grid:  $dx=12\text{mm}$ ,  $dy=12\text{mm}$

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 6.740 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.184 W/kg

**SAR(1 g) = 0.093 W/kg**



0 dB = 0.149 W/kg = -8.27 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1404M**

Communication System: UID 0, LTE Band 41; Frequency: 2506 MHz; Duty Cycle: 1:1.58

Medium: 2450 MHz Body; Medium parameters used (interpolated):

$f = 2506 \text{ MHz}$ ;  $\sigma = 2.091 \text{ S/m}$ ;  $\epsilon_r = 54.395$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 03-04-2019; Ambient Temp: 21.9°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7308; ConvF(7.57, 7.57, 7.57) @ 2506 MHz; Calibrated: 8/23/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1558; Calibrated: 10/3/2018

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1630

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: Band 41, Body SAR, Bottom Edge, Low.ch,  
20 MHz Bandwidth, QPSK, 50 RB, 25 RB Offset**

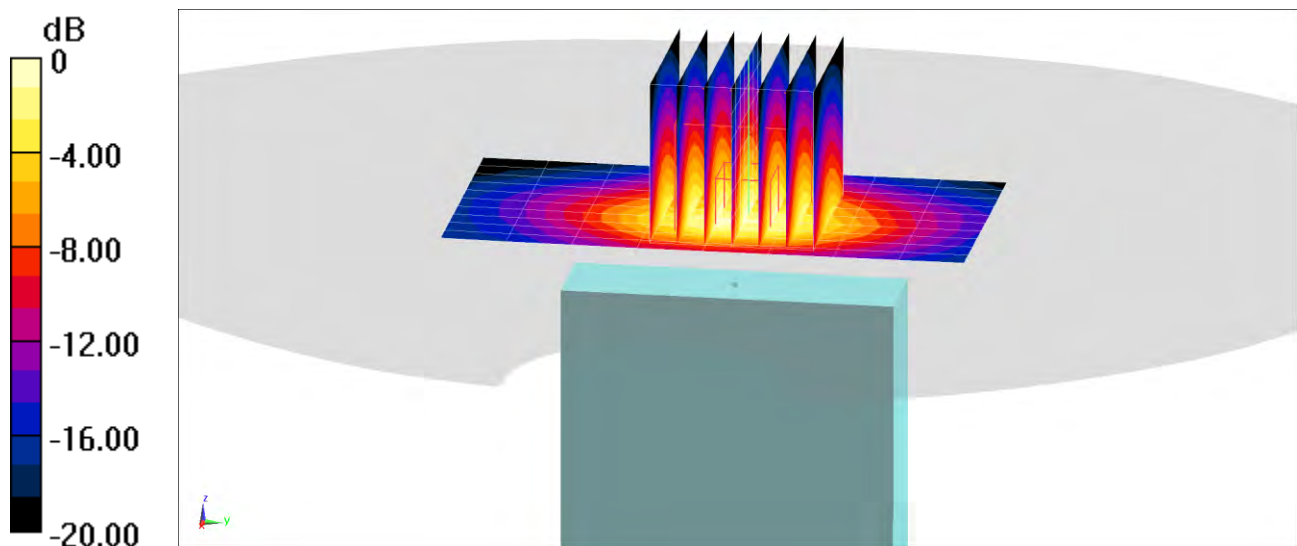
**Area Scan (11x9x1):** Measurement grid:  $dx=5\text{mm}$ ,  $dy=12\text{mm}$

**Zoom Scan (8x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 17.60 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 1.18 W/kg

**SAR(1 g) = 0.619 W/kg**



0 dB = 0.966 W/kg = -0.15 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1385M**

Communication System: UID 0, IEEE 802.11b; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: 2450 Body Medium parameters used (interpolated):

$f = 2412 \text{ MHz}$ ;  $\sigma = 1.993 \text{ S/m}$ ;  $\epsilon_r = 52.064$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 02-11-2019; Ambient Temp: 21.9°C; Tissue Temp: 21.1°C

Probe: ES3DV3 - SN3319; ConvF(4.51, 4.51, 4.51) @ 2412 MHz; Calibrated: 3/13/2018

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1368; Calibrated: 3/7/2018

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7450)

**Mode: IEEE 802.11b, 22 MHz Bandwidth, Antenna 1, Body SAR, Ch 01, 1 Mbps, Back Side**

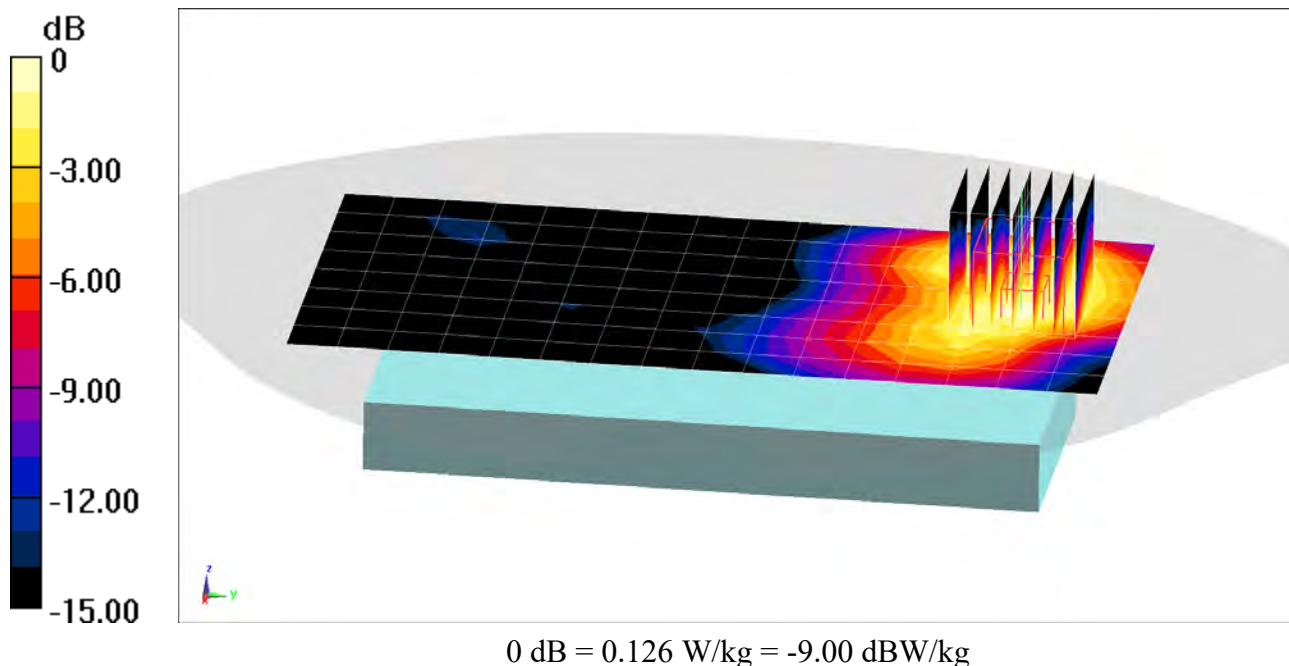
**Area Scan (9x17x1):** Measurement grid:  $dx=12\text{mm}$ ,  $dy=12\text{mm}$

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 7.687 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.186 W/kg

**SAR(1 g) = 0.102 W/kg**



# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1385M**

Communication System: UID 0, IEEE 802.11b; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: 2450 Body Medium parameters used (interpolated):

$f = 2412 \text{ MHz}$ ;  $\sigma = 1.993 \text{ S/m}$ ;  $\epsilon_r = 52.064$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 02-11-2019; Ambient Temp: 21.9°C; Tissue Temp: 21.1°C

Probe: ES3DV3 - SN3319; ConvF(4.51, 4.51, 4.51) @ 2412 MHz; Calibrated: 3/13/2018

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1368; Calibrated: 3/7/2018

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7450)

**Mode: IEEE 802.11b, 22 MHz Bandwidth, Antenna 2, Body SAR, Ch 01, 1 Mbps, Back Side**

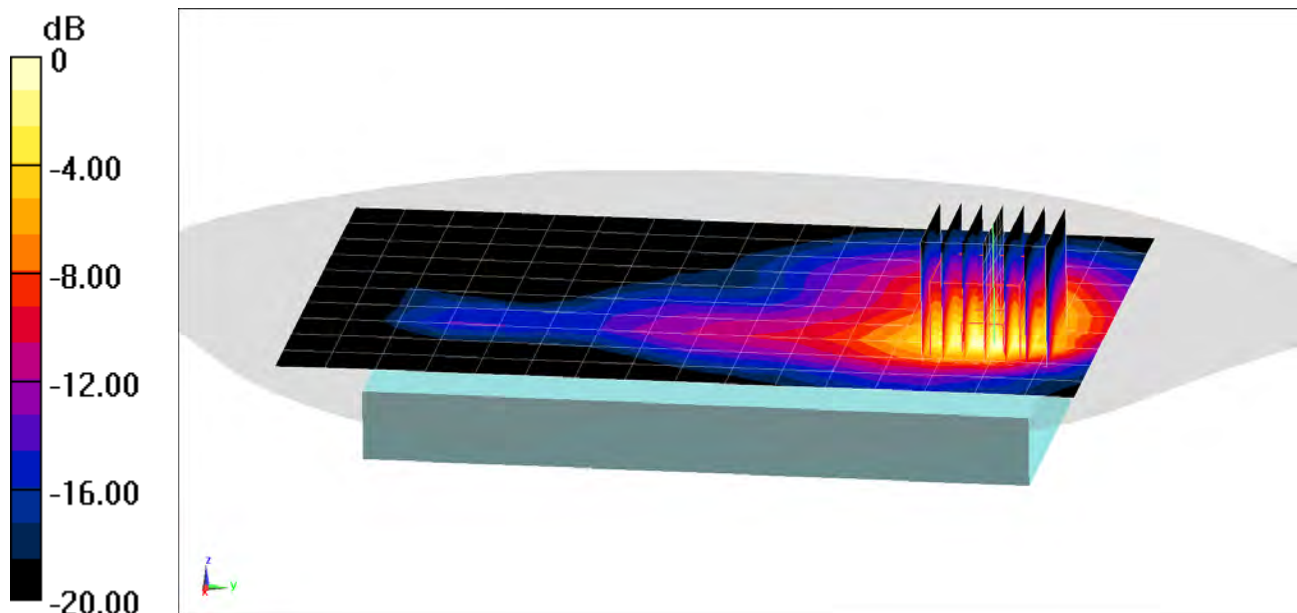
**Area Scan (11x17x1):** Measurement grid:  $dx=12\text{mm}$ ,  $dy=12\text{mm}$

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 2.434 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.703 W/kg

**SAR(1 g) = 0.308 W/kg**



0 dB = 0.424 W/kg = -3.73 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1360M**

Communication System: UID 0, IEEE 802.11a 5.2-5.8 GHz Band; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: 5 GHz Body Medium parameters used:

$f = 5500 \text{ MHz}$ ;  $\sigma = 5.81 \text{ S/m}$ ;  $\epsilon_r = 47.291$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 02-13-2019; Ambient Temp: 22.6°C; Tissue Temp: 20.1°C

Probe: EX3DV4 - SN7308; ConvF(4, 4, 4) @ 5500 MHz; Calibrated: 8/23/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1558; Calibrated: 10/3/2018

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1630

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7450)

**Mode: IEEE 802.11a, UNII-2C, 20 MHz Bandwidth, Antenna 1,  
Body SAR, Ch 100, 6 Mbps, Back Side**

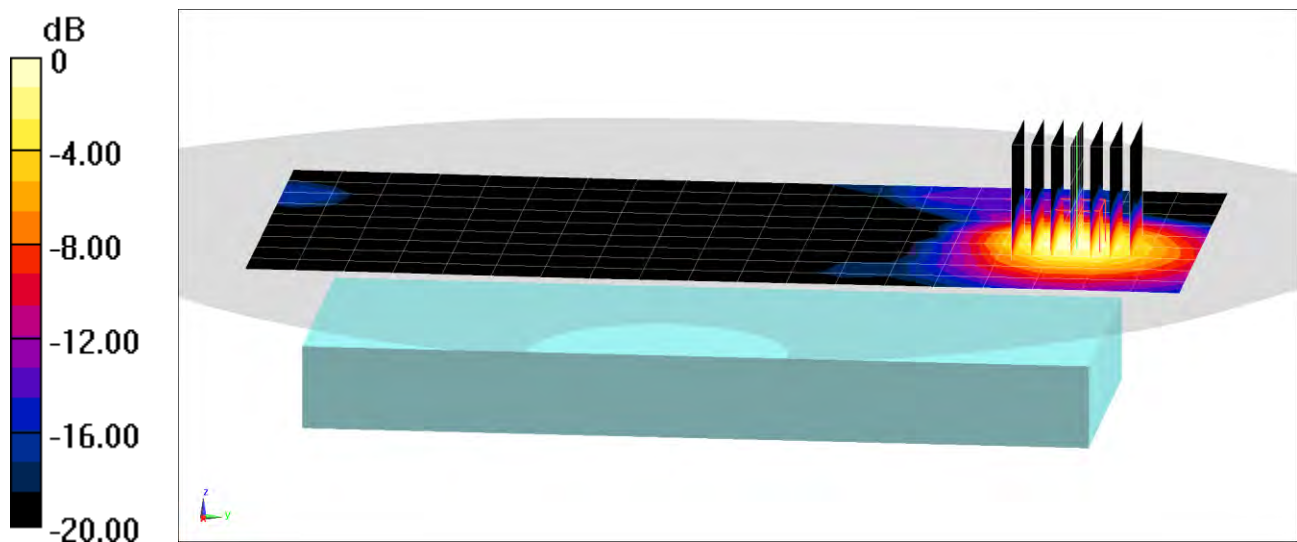
**Area Scan (8x8x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=1.4\text{mm}$ ; Graded Ratio: 1.4

Reference Value = 10.03 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.98 W/kg

**SAR(1 g) = 0.530 W/kg**



0 dB = 1.21 W/kg = 0.83 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1360M**

Communication System: UID 0, IEEE 802.11a 5.2-5.8 GHz Band; Frequency: 5785 MHz; Duty Cycle: 1:1

Medium: 5 GHz Body Medium parameters used:

$f = 5785 \text{ MHz}$ ;  $\sigma = 6.262 \text{ S/m}$ ;  $\epsilon_r = 46.757$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 02-13-2019; Ambient Temp: 22.6°C; Tissue Temp: 20.1°C

Probe: EX3DV4 - SN7308; ConvF(4.18, 4.18, 4.18) @ 5785 MHz; Calibrated: 8/23/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1558; Calibrated: 10/3/2018

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1630

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7450)

**Mode: IEEE 802.11a, UNII-3, 20 MHz Bandwidth, Antenna 1,  
Body SAR, Ch 157, 6 Mbps, Back Side**

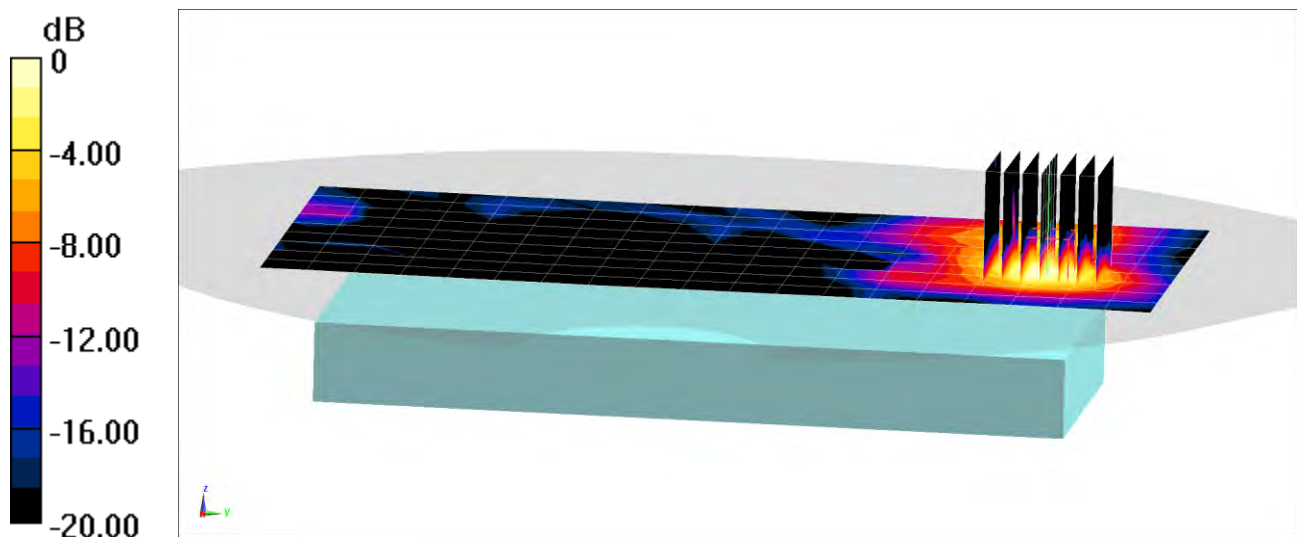
**Area Scan (8x8x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=1.4\text{mm}$ ; Graded Ratio: 1.4

Reference Value = 6.420 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.38 W/kg

**SAR(1 g) = 0.178 W/kg**



0 dB = 0.586 W/kg = -2.32 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1385M**

Communication System: UID 0, Bluetooth; Frequency: 2402 MHz; Duty Cycle: 1:1.297

Medium: 2450 Body; Medium parameters used (interpolated):

$f = 2402 \text{ MHz}$ ;  $\sigma = 1.981 \text{ S/m}$ ;  $\epsilon_r = 52.089$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 02-11-2019; Ambient Temp: 21.9°C; Tissue Temp: 21.1°C

Probe: ES3DV3 - SN3319; ConvF(4.51, 4.51, 4.51) @ 2402 MHz; Calibrated: 3/13/2018

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1368; Calibrated: 3/7/2018

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: Bluetooth, Body SAR, Ch 0, 1 Mbps, Back Side**

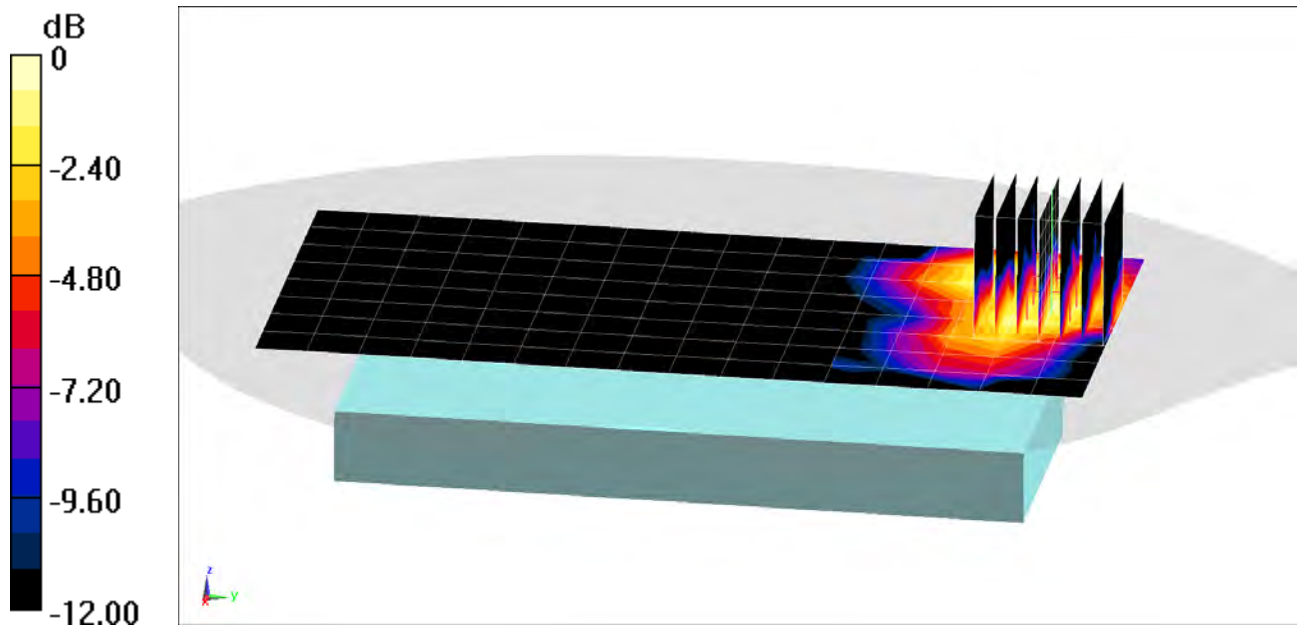
**Area Scan (9x17x1):** Measurement grid:  $dx=12\text{mm}$ ,  $dy=12\text{mm}$

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 2.361 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.0190 W/kg

**SAR(1 g) = 0.010 W/kg**



0 dB = 0.0136 W/kg = -18.66 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1385M**

Communication System: UID 0, Bluetooth; Frequency: 2402 MHz; Duty Cycle: 1:1.297

Medium: 2450 Body; Medium parameters used (interpolated):

$f = 2402 \text{ MHz}$ ;  $\sigma = 1.981 \text{ S/m}$ ;  $\epsilon_r = 52.089$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 02-11-2019; Ambient Temp: 21.9°C; Tissue Temp: 21.1°C

Probe: ES3DV3 - SN3319; ConvF(4.51, 4.51, 4.51) @ 2402 MHz; Calibrated: 3/13/2018

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1368; Calibrated: 3/7/2018

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7450)

**Mode: Bluetooth, Body SAR, Ch 0, 1 Mbps, Back Side**

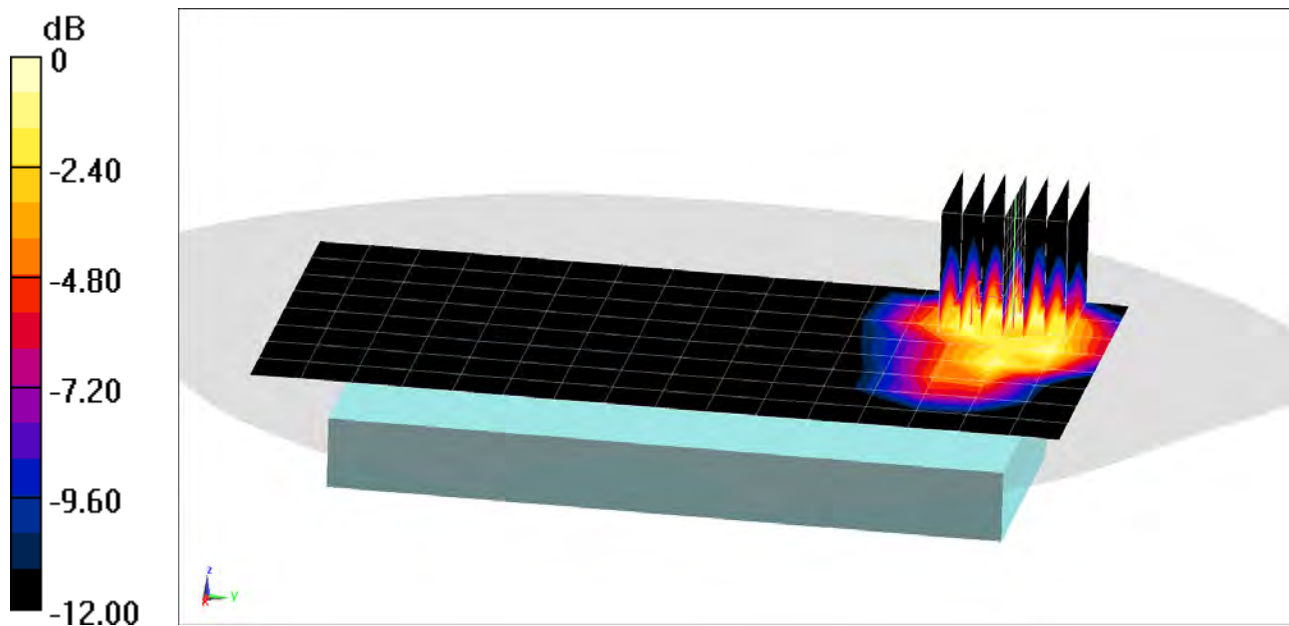
**Area Scan (9x17x1):** Measurement grid:  $dx=12\text{mm}$ ,  $dy=12\text{mm}$

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 3.986 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.0640 W/kg

**SAR(1 g) = 0.027 W/kg**



0 dB = 0.0365 W/kg = -14.38 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1404M**

Communication System: UID 0, GSM GPRS; 2 Tx slots; Frequency: 1880 MHz; Duty Cycle: 1:4.15

Medium: 1900 Body Medium parameters used:

$f = 1880 \text{ MHz}$ ;  $\sigma = 1.557 \text{ S/m}$ ;  $\epsilon_r = 53.283$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 02-18-2019; Ambient Temp: 21.0°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7488; ConvF(8.37, 8.37, 8.37) @ 1880 MHz; Calibrated: 1/24/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1530; Calibrated: 1/15/2019

Phantom: SAM Left; Type: QD000P40CC; Serial: TP: 1375

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: GPRS 1900, Phablet SAR, Bottom Edge, Mid.ch, 2 Tx Slots**

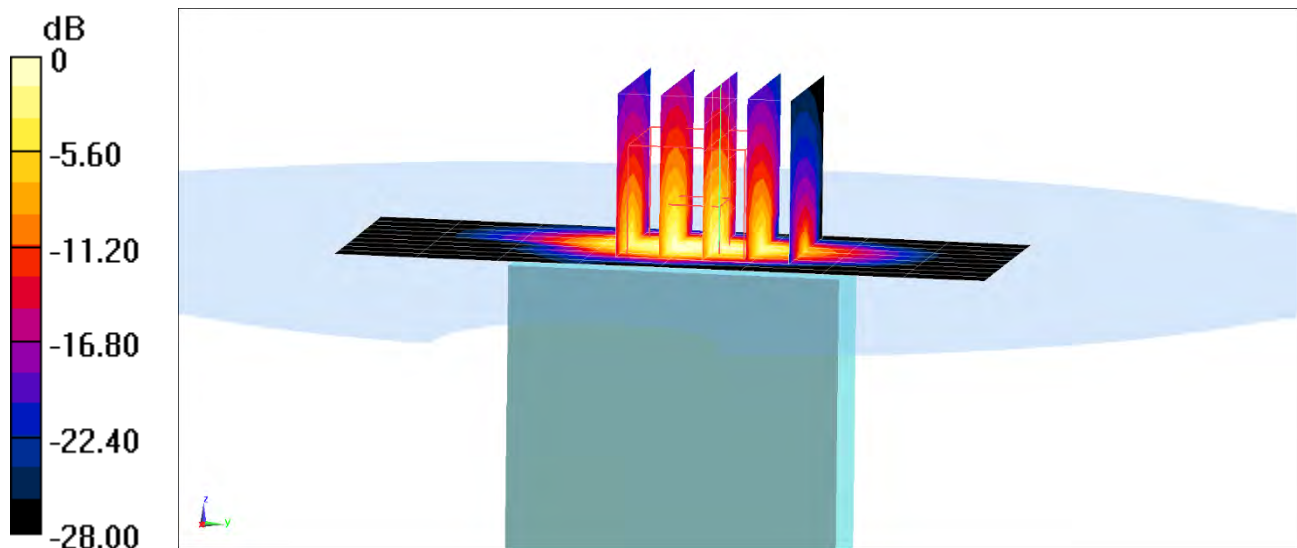
**Area Scan (10x9x1):** Measurement grid:  $dx=5\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 57.62 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 11.5 W/kg

**SAR(10 g) = 2.01 W/kg**



0 dB = 8.50 W/kg = 9.29 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1407M**

Communication System: UID 0, UMTS; Frequency: 1732.4 MHz; Duty Cycle: 1:1

Medium: 1750 Body; Medium parameters used (interpolated):

$f = 1732.4 \text{ MHz}$ ;  $\sigma = 1.49 \text{ S/m}$ ;  $\epsilon_r = 51.594$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 02-22-2019; Ambient Temp: 23.2°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7410; ConvF(8.06, 8.06, 8.06) @ 1732.4 MHz; Calibrated: 7/20/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2018

Phantom: SAM Left; Type: QD000P40CA; Serial: TP:82355

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: UMTS 1750, Phablet SAR, Bottom Edge, Mid.ch**

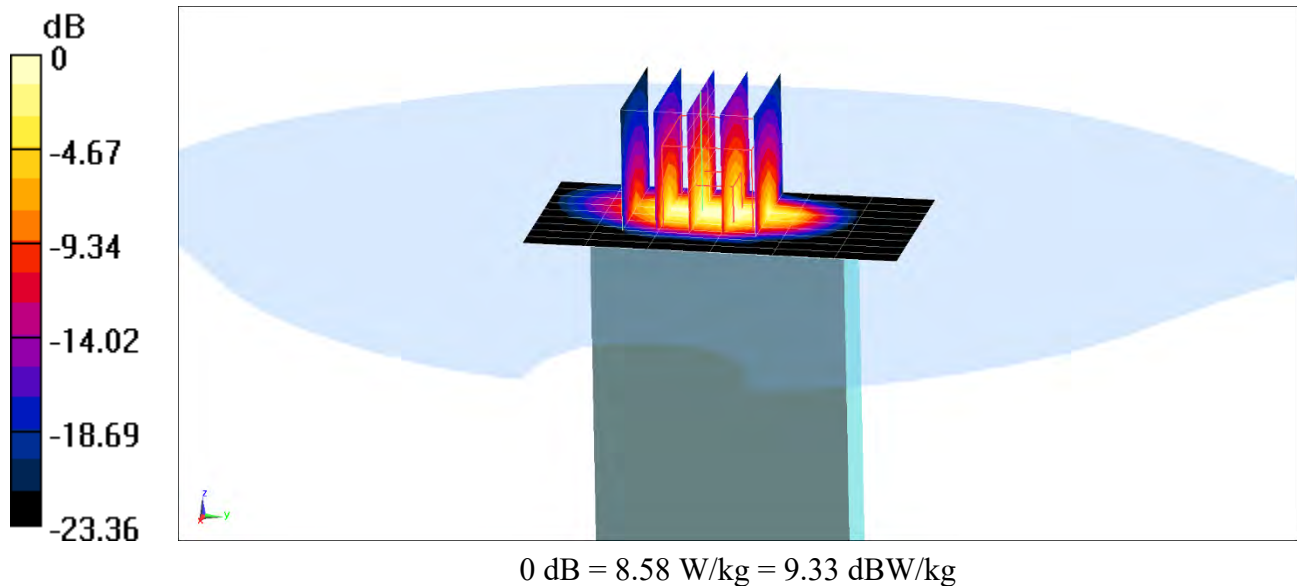
**Area Scan (10x7x1):** Measurement grid:  $dx=5\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 60.36 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 11.1 W/kg

**SAR(10 g) = 2.16 W/kg**



# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1404M**

Communication System: UID 0, UMTS; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: 1900 Body; Medium parameters used:

$f = 1880 \text{ MHz}$ ;  $\sigma = 1.532 \text{ S/m}$ ;  $\epsilon_r = 51.019$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 02-24-2019; Ambient Temp: 21.7°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7488; ConvF(8.37, 8.37, 8.37) @ 1880 MHz; Calibrated: 1/24/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1530; Calibrated: 1/15/2019

Phantom: SAM Left; Type: QD000P40CC; Serial: TP: 1375

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: UMTS 1900, Phablet SAR, Bottom Edge, Mid.ch**

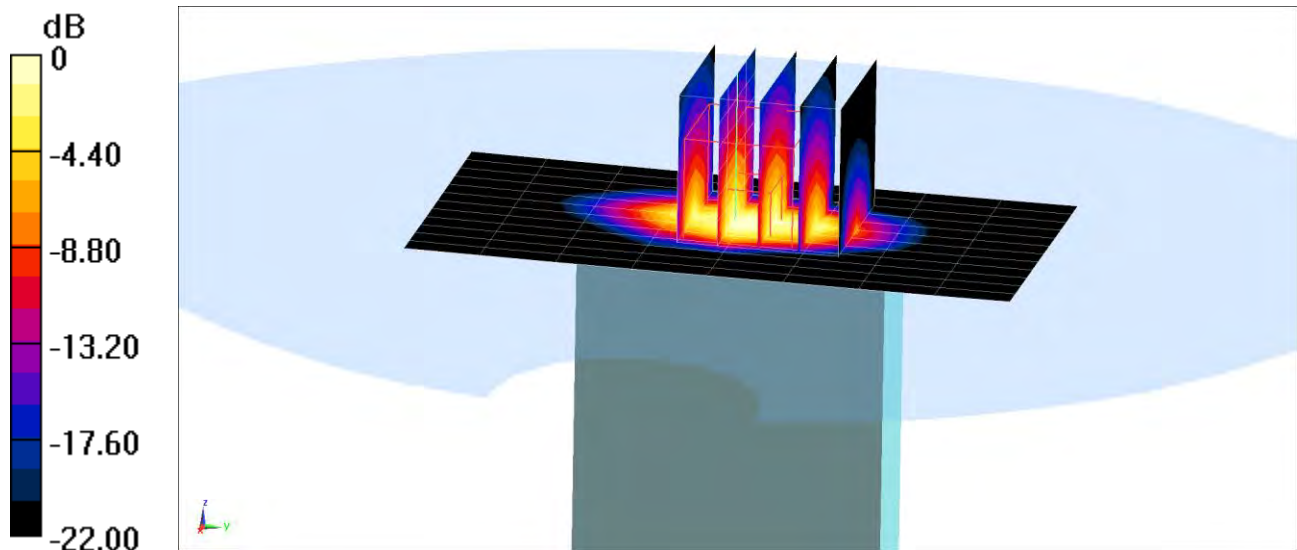
**Area Scan (13x9x1):** Measurement grid:  $dx=5\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 61.42 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 12.4 W/kg

**SAR(10 g) = 2.27 W/kg**



0 dB = 9.27 W/kg = 9.67 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1362M**

Communication System: UID 0, LTE Band 66 (AWS); Frequency: 1745 MHz; Duty Cycle: 1:1

Medium: 1750 Body; Medium parameters used (interpolated):

$f = 1745 \text{ MHz}$ ;  $\sigma = 1.505 \text{ S/m}$ ;  $\epsilon_r = 51.258$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 02-24-2019; Ambient Temp: 21.3°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN7410; ConvF(8.06, 8.06, 8.06) @ 1745 MHz; Calibrated: 7/20/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2018

Phantom: SAM Left; Type: QD000P40CA; Serial: TP:82355

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 66 (AWS), Phablet SAR, Bottom Edge, Mid.ch,  
20 MHz Bandwidth, QPSK, 50 RB, 25 RB Offset**

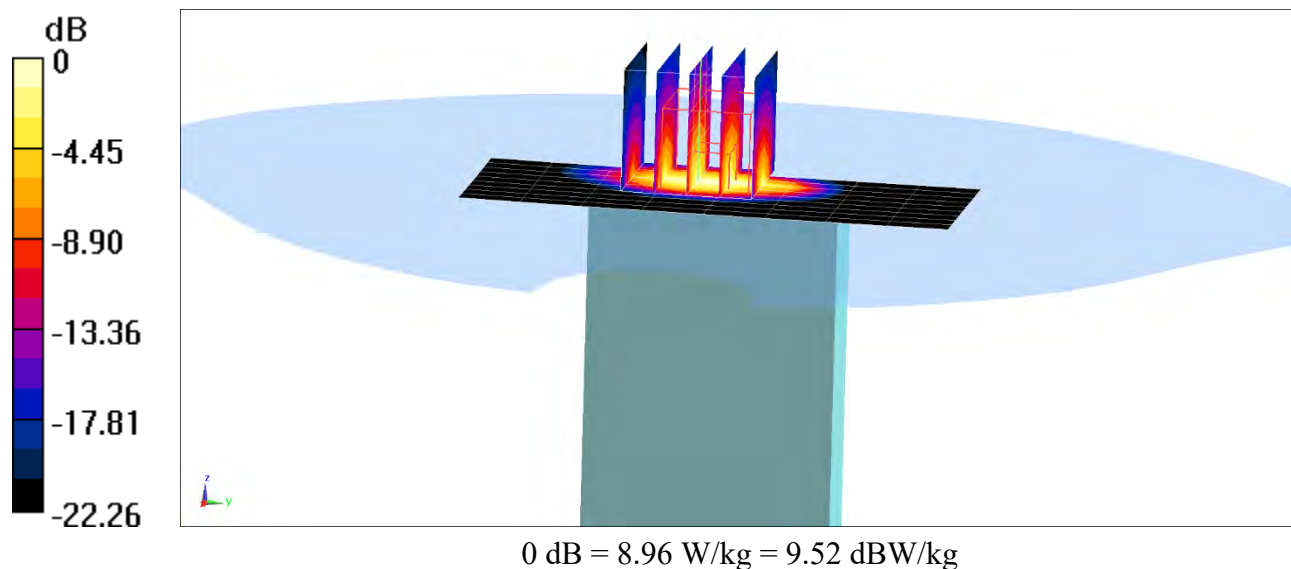
**Area Scan (10x9x1):** Measurement grid: dx=5mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 60.80 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 11.5 W/kg

**SAR(10 g) = 2.15 W/kg**



# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1362M**

Communication System: UID 0, LTE Band 25 (PCS); Frequency: 1882.5 MHz; Duty Cycle: 1:1

Medium: 1900 Body Medium parameters used (interpolated):

$f = 1882.5 \text{ MHz}$ ;  $\sigma = 1.56 \text{ S/m}$ ;  $\epsilon_r = 53.275$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 02-18-2019; Ambient Temp: 21.0°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7488; ConvF(8.37, 8.37, 8.37) @ 1882.5 MHz; Calibrated: 1/24/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1530; Calibrated: 1/15/2019

Phantom: SAM Left; Type: QD000P40CC; Serial: TP: 1375

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 25 (PCS), Phablet SAR, Bottom Edge, Mid.ch,  
20 MHz Bandwidth, QPSK, 50 RB, 0 RB Offset**

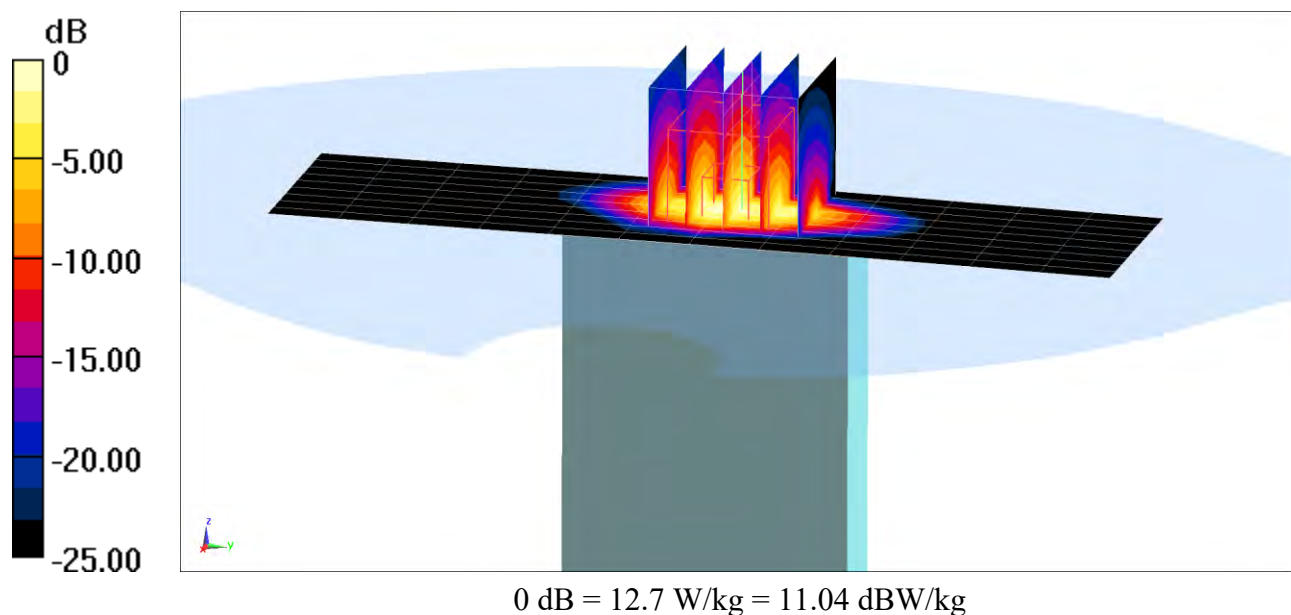
**Area Scan (10x13x1):** Measurement grid:  $dx=5\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 70.42 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 17.1 W/kg

**SAR(10 g) = 2.9 W/kg**



# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1404M**

Communication System: UID 0, LTE Band 30; Frequency: 2310 MHz; Duty Cycle: 1:1

Medium: 2450 MHz Body; Medium parameters used:

$f = 2310 \text{ MHz}$ ;  $\sigma = 1.901 \text{ S/m}$ ;  $\epsilon_r = 53.517$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 03-06-2019; Ambient Temp: 22.6°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN7308; ConvF(7.73, 7.73, 7.73) @ 2310 MHz; Calibrated: 8/23/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1558; Calibrated: 10/3/2018

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1630

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 30, Phablet SAR, Bottom Edge, Mid.ch,  
10 MHz Bandwidth, QPSK, 25 RB, 12 RB Offset**

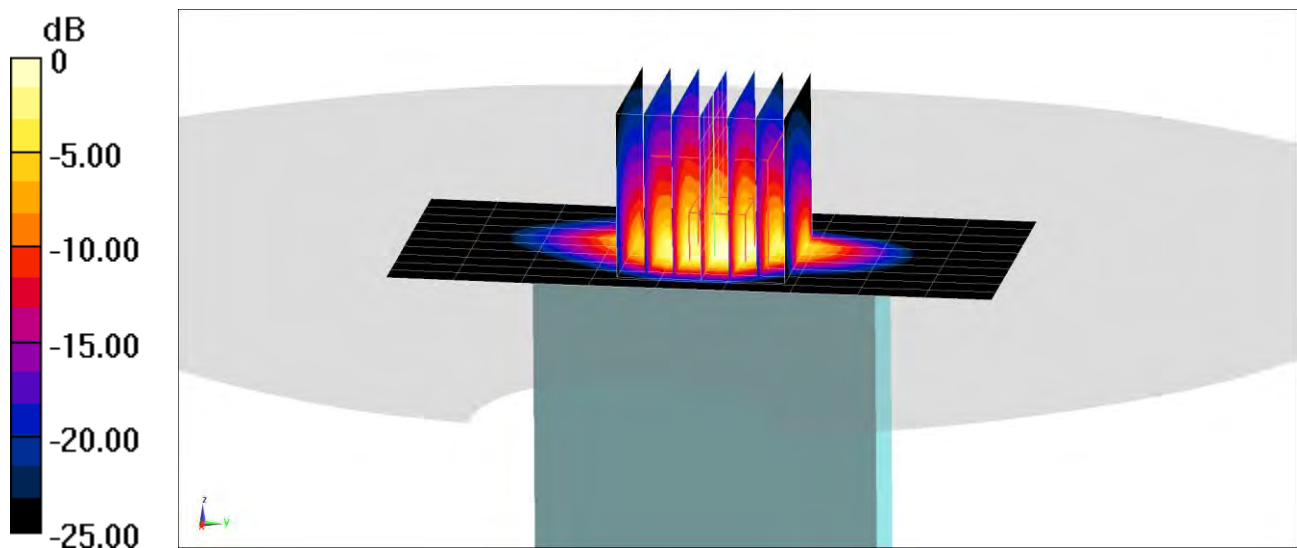
**Area Scan (11x10x1):** Measurement grid:  $dx=5\text{mm}$ ,  $dy=12\text{mm}$

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 61.19 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 13.8 W/kg

**SAR(10 g) = 2.4 W/kg**



0 dB = 10.7 W/kg = 10.29 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1404M**

Communication System: UID 0, LTE Band 7; Frequency: 2510 MHz; Duty Cycle: 1:1

Medium: 2450 MHz Body; Medium parameters used (interpolated):

$f = 2510 \text{ MHz}$ ;  $\sigma = 2.095 \text{ S/m}$ ;  $\epsilon_r = 54.389$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 03-04-2019; Ambient Temp: 21.9°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7308; ConvF(7.57, 7.57, 7.57) @ 2510 MHz; Calibrated: 8/23/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1558; Calibrated: 10/3/2018

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1630

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 7, Phablet SAR, Front side, Low.ch,  
20 MHz Bandwidth, QPSK, 1 RB, 99 RB Offset**

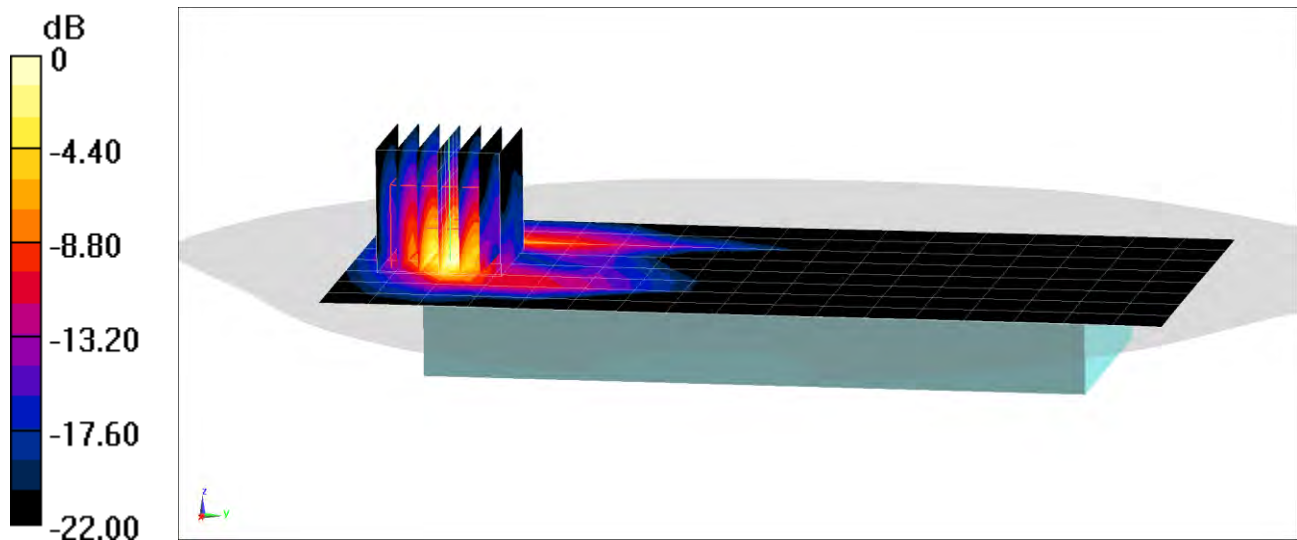
**Area Scan (9x18x1):** Measurement grid:  $dx=12\text{mm}$ ,  $dy=12\text{mm}$

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 55.97 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 14.3 W/kg

**SAR(10 g) = 1.81 W/kg**



0 dB = 10.5 W/kg = 10.21 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1404M**

Communication System: UID 0, LTE Band 41; Frequency: 2680 MHz; Duty Cycle: 1:1.58

Medium: 2450 MHz Body; Medium parameters used (interpolated):

$f = 2680 \text{ MHz}$ ;  $\sigma = 2.264 \text{ S/m}$ ;  $\epsilon_r = 52.923$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 03-06-2019; Ambient Temp: 22.6°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN7308; ConvF(7.4, 7.4, 7.4) @ 2680 MHz; Calibrated: 8/23/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1558; Calibrated: 10/3/2018

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1630

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 41, Phablet SAR, Bottom Edge, High.ch,  
20 MHz Bandwidth, QPSK, 1 RB, 99 RB Offset**

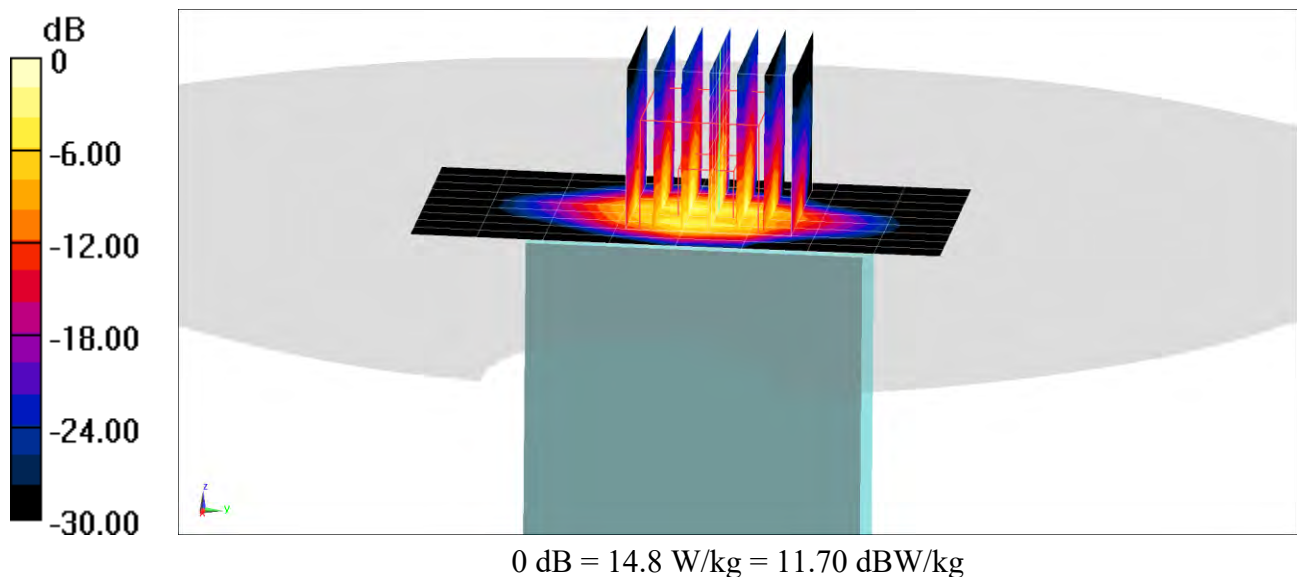
**Area Scan (10x9x1):** Measurement grid:  $dx=5\text{mm}$ ,  $dy=12\text{mm}$

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 58.84 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 19.9 W/kg

**SAR(10 g) = 1.91 W/kg**



# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1360M**

Communication System: UID 0, IEEE 802.11a 5.2-5.8 GHz Band; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: 5 GHz Body; Medium parameters used:

$f = 5500 \text{ MHz}$ ;  $\sigma = 5.81 \text{ S/m}$ ;  $\epsilon_r = 47.291$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 02-13-2019; Ambient Temp: 22.6°C; Tissue Temp: 20.1°C

Probe: EX3DV4 - SN7308; ConvF(4, 4, 4) @ 5500 MHz; Calibrated: 8/23/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1558; Calibrated: 10/3/2018

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1630

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: IEEE 802.11a, Antenna 1, U-NII-2C, 20 MHz Bandwidth,  
Phablet SAR, Ch 100, 6 Mbps, Back Side**

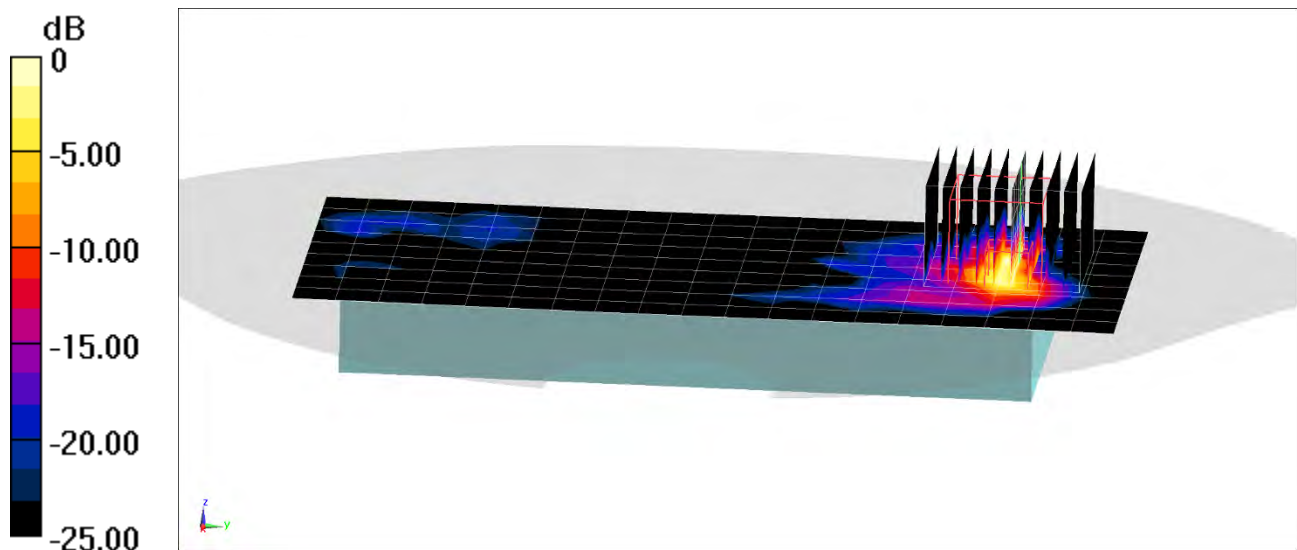
**Area Scan (9x9x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

**Zoom Scan (10x10x7)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=1.4\text{mm}$ ; Graded Ratio: 1.4

Reference Value = 23.44 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 22.0 W/kg

**SAR(10 g) = 0.756 W/kg**



0 dB = 10.7 W/kg = 10.29 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1385M**

Communication System: UID 0, GSM GPRS; 3 Tx slots; Frequency: 836.6 MHz; Duty Cycle: 1:2.76

Medium: 835 Body; Medium parameters used (interpolated):

$f = 836.6 \text{ MHz}$ ;  $\sigma = 0.958 \text{ S/m}$ ;  $\epsilon_r = 52.915$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 02-20-2019; Ambient Temp: 21.7°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN7357; ConvF(10.17, 10.17, 10.17) @ 836.6 MHz; Calibrated: 4/18/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/11/2018

Phantom: SAM with CRP v5.0 Front; Type: QD000P40CD; Serial: 1646

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: GPRS 850, UMPC Body SAR, Back side, Mid.ch, 3 Tx Slots**

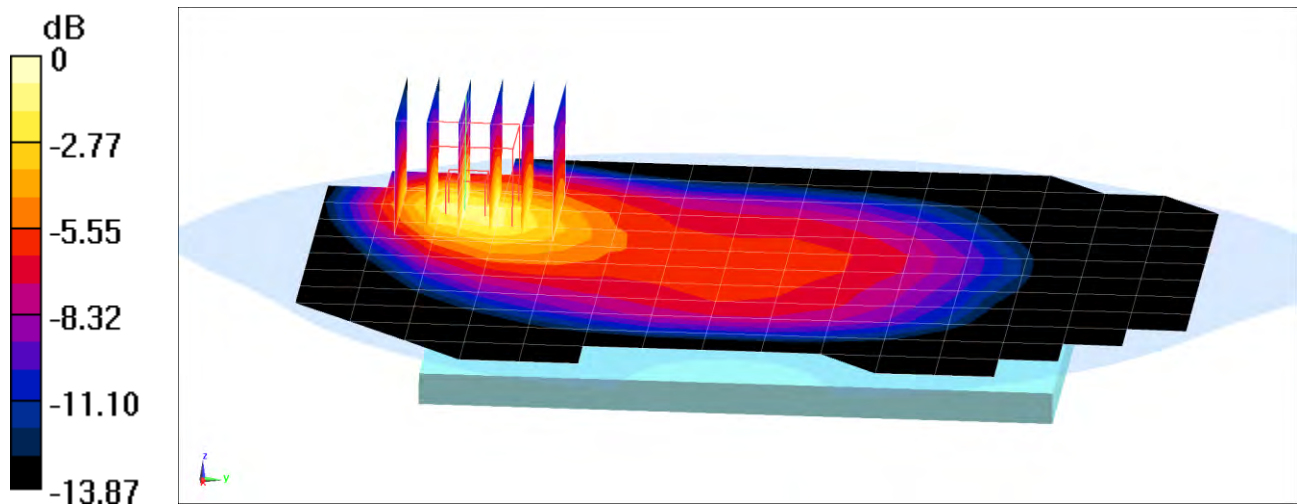
**Area Scan (13x16x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 23.28 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.998 W/kg

**SAR(1 g) = 0.606 W/kg**



0 dB = 0.841 W/kg = -0.75 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1362M**

Communication System: UID 0, GSM GPRS; 2 Tx slots; Frequency: 1880 MHz; Duty Cycle: 1:4.15

Medium: 1900 Body; Medium parameters used:

$f = 1880 \text{ MHz}$ ;  $\sigma = 1.542 \text{ S/m}$ ;  $\epsilon_r = 51.397$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.3 cm

Test Date: 03-05-2019; Ambient Temp: 21.7°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN7488; ConvF(8.37, 8.37, 8.37) @ 1880 MHz; Calibrated: 1/24/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1530; Calibrated: 1/15/2019

Phantom: SAM Left; Type: QD000P40CC; Serial: TP: 1375

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: GPRS 1900, UMPC Body SAR, Bottom Edge, Mid.ch, 2 Tx Slots**

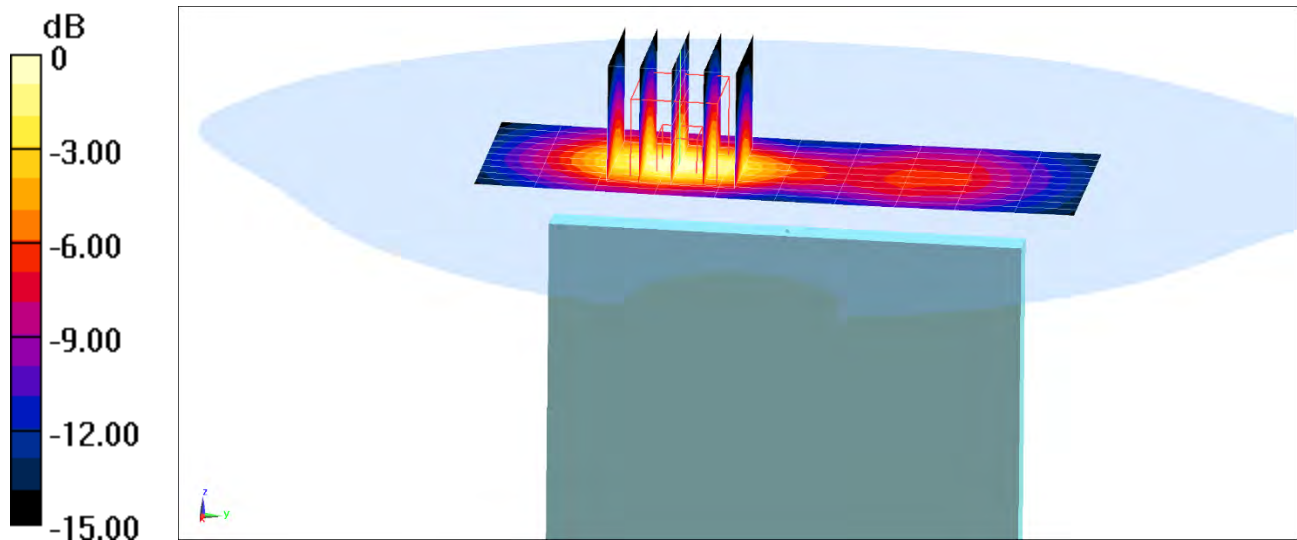
**Area Scan (11x11x1):** Measurement grid:  $dx=5\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 23.81 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 1.34 W/kg

**SAR(1 g) = 0.764 W/kg**



0 dB = 1.15 W/kg = 0.61 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1366M**

Communication System: UID 0, UMTS; Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium: 835 Body Medium parameters used (interpolated):

$f = 836.6 \text{ MHz}$ ;  $\sigma = 0.977 \text{ S/m}$ ;  $\epsilon_r = 53.758$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 02-18-2019; Ambient Temp: 21.5°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7357; ConvF(10.17, 10.17, 10.17) @ 836.6 MHz; Calibrated: 4/18/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/11/2018

Phantom: SAM with CRP v5.0 Front; Type: QD000P40CD; Serial: 1646

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: UMTS 850, UMPC Body SAR, Back side, Mid.ch**

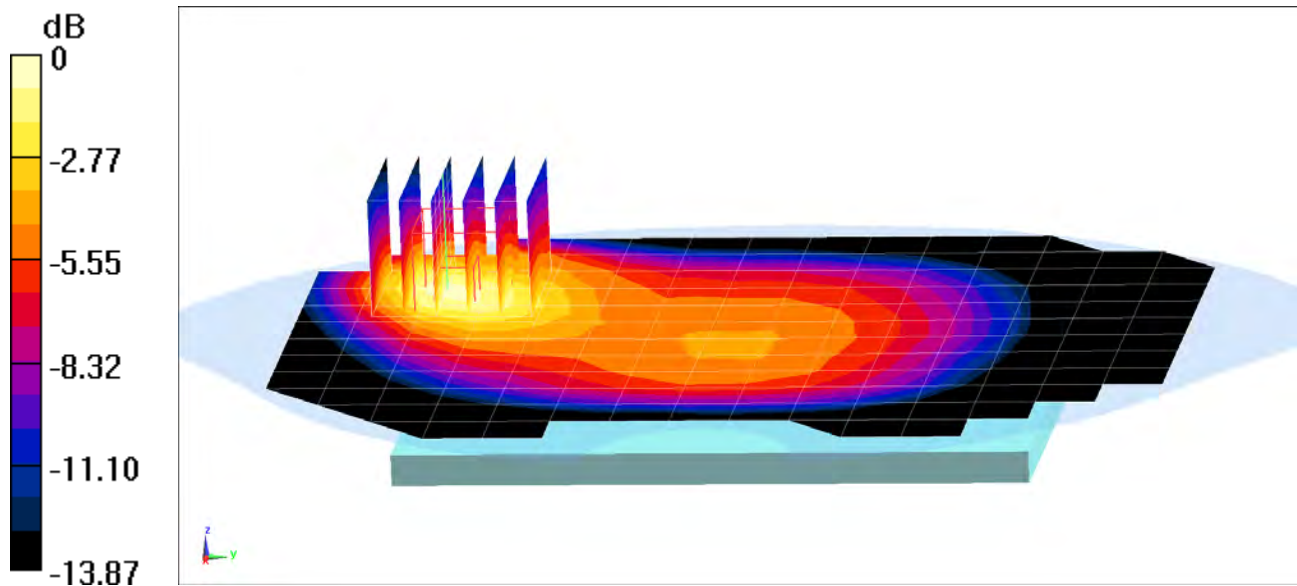
**Area Scan (13x16x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 18.24 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.525 W/kg

**SAR(1 g) = 0.315 W/kg**



0 dB = 0.437 W/kg = -3.60 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1362M**

Communication System: UID 0, UMTS; Frequency: 1712.4 MHz; Duty Cycle: 1:1

Medium: 1750 Body; Medium parameters used (interpolated):

$f = 1712.4 \text{ MHz}$ ;  $\sigma = 1.469 \text{ S/m}$ ;  $\epsilon_r = 51.666$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.3 cm

Test Date: 02-22-2019; Ambient Temp: 23.2°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7410; ConvF(8.06, 8.06, 8.06) @ 1712.4 MHz; Calibrated: 7/20/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2018

Phantom: SAM Left; Type: QD000P40CA; Serial: TP:82355

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: UMTS 1750, UMPC Body SAR, Bottom Edge, Low.ch**

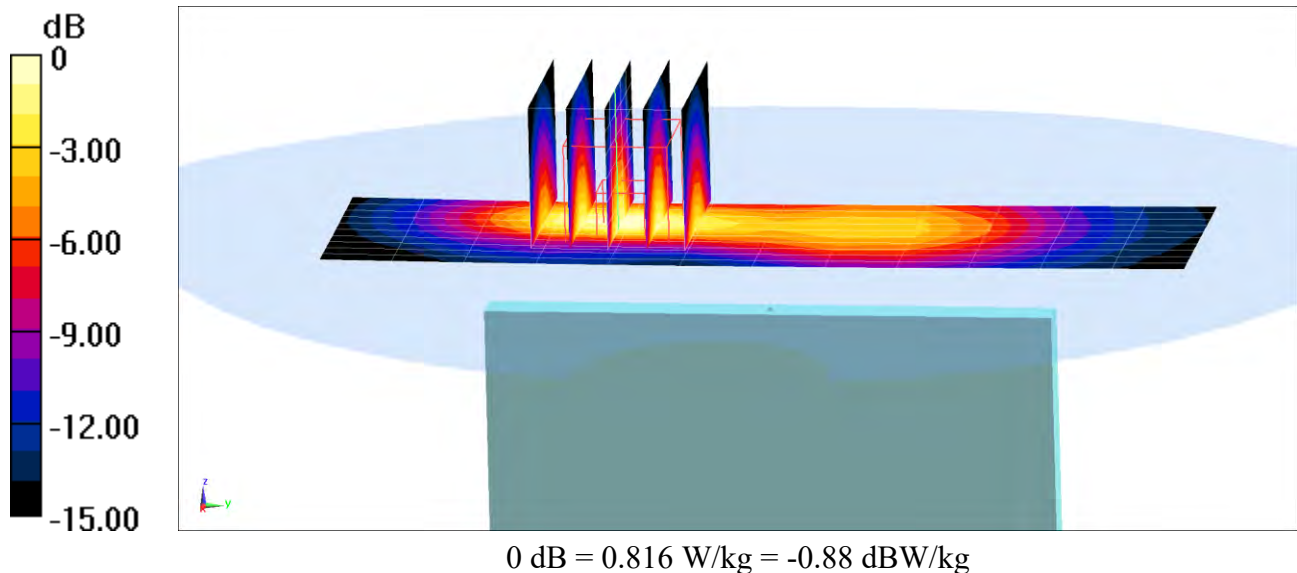
**Area Scan (11x13x1):** Measurement grid:  $dx=5\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (6x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 18.68 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.989 W/kg

**SAR(1 g) = 0.576 W/kg**



# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1362M**

Communication System: UID 0, UMTS; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: 1900 Body; Medium parameters used (interpolated):

$f = 1907.6 \text{ MHz}$ ;  $\sigma = 1.573 \text{ S/m}$ ;  $\epsilon_r = 51.286$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.3 cm

Test Date: 03-05-2019; Ambient Temp: 21.7°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN7488; ConvF(8.37, 8.37, 8.37) @ 1907.6 MHz; Calibrated: 1/24/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1530; Calibrated: 1/15/2019

Phantom: SAM Left; Type: QD000P40CC; Serial: TP: 1375

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7450)

**Mode: UMTS 1900, UMPC Body SAR, Bottom Edge, High.ch**

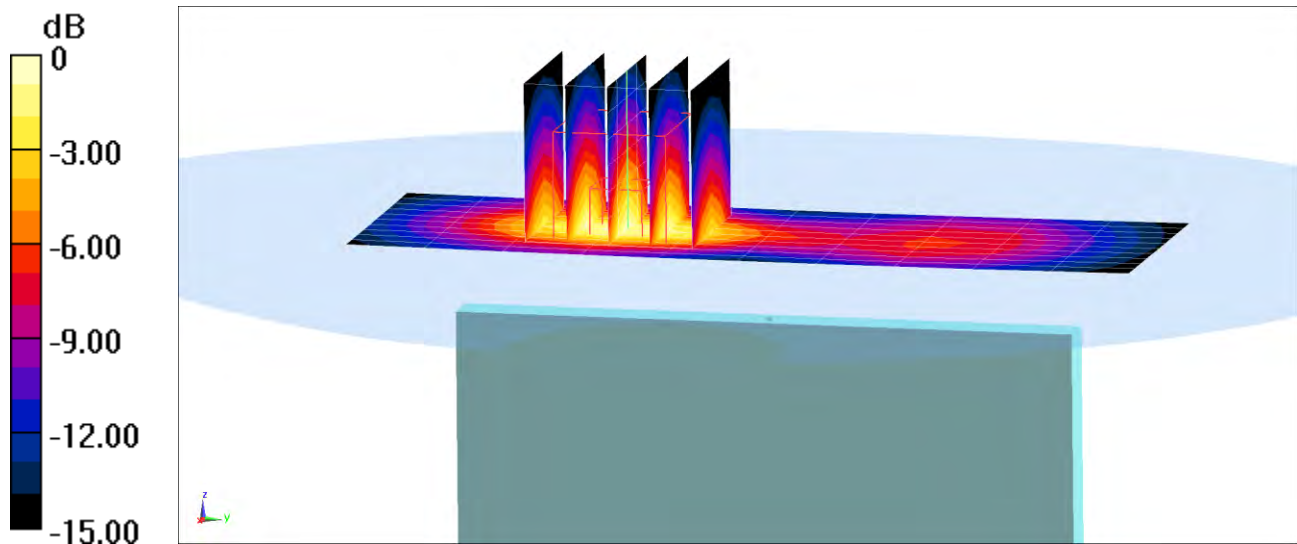
**Area Scan (11x11x1):** Measurement grid:  $dx=5\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 27.52 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 1.83 W/kg

**SAR(1 g) = 1.05 W/kg**



# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1358M**

Communication System: UID 0, LTE Band 71; Frequency: 680.5 MHz; Duty Cycle: 1:1

Medium: 750 Body; Medium parameters used (interpolated):

$f = 680.5 \text{ MHz}$ ;  $\sigma = 0.916 \text{ S/m}$ ;  $\epsilon_r = 54.004$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 02-25-2019; Ambient Temp: 21.8°C; Tissue Temp: 19.8°C

Probe: EX3DV4 - SN3589; ConvF(8.34, 8.34, 8.34) @ 680.5 MHz; Calibrated: 1/25/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1450; Calibrated: 8/22/2018

Phantom: SAM 5.0 front; Type: QD000P40CD; Serial: 1648

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 71, UMPC Body SAR, Right Edge, Mid.ch,  
20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

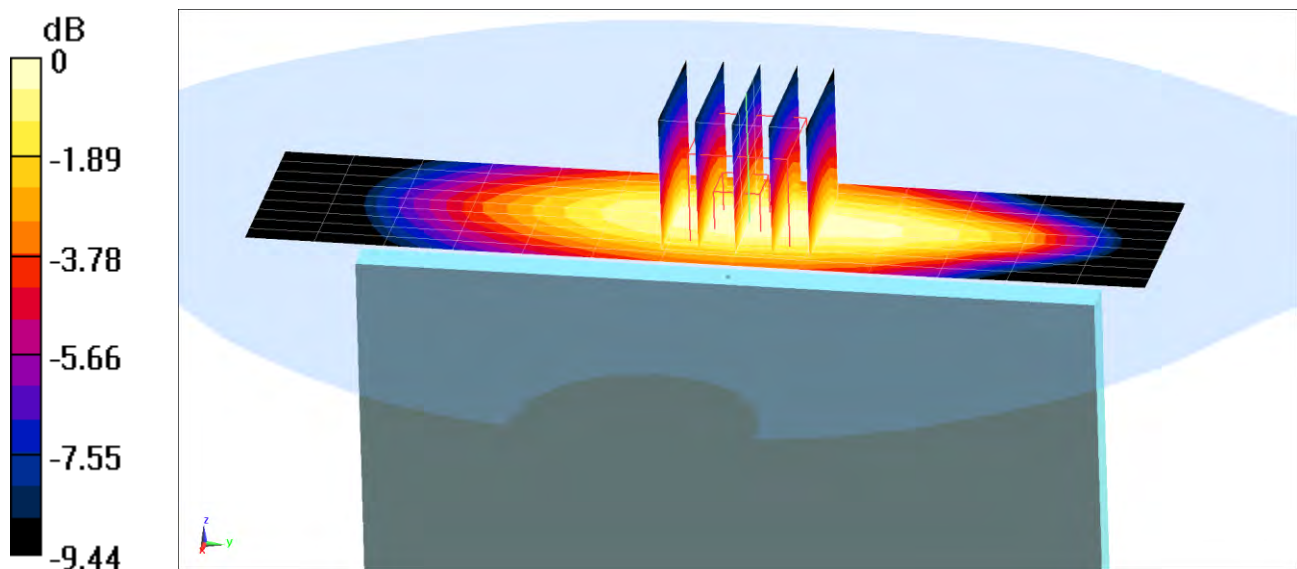
**Area Scan (10x14x1):** Measurement grid: dx=5mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.82 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.526 W/kg

**SAR(1 g) = 0.347 W/kg**



0 dB = 0.459 W/kg = -3.38 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1358M**

Communication System: UID 0, LTE Band 12; Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium: 750 Body; Medium parameters used (interpolated):

$f = 707.5 \text{ MHz}$ ;  $\sigma = 0.931 \text{ S/m}$ ;  $\epsilon_r = 53.947$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 02-25-2019; Ambient Temp: 21.8°C; Tissue Temp: 19.8°C

Probe: EX3DV4 - SN3589; ConvF(8.34, 8.34, 8.34) @ 707.5 MHz; Calibrated: 1/25/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1450; Calibrated: 8/22/2018

Phantom: SAM 5.0 front; Type: QD000P40CD; Serial: 1648

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 12, UMPC Body SAR, Right Edge, Mid.ch,  
10 MHz Bandwidth, QPSK, 1 RB, 25 RB Offset**

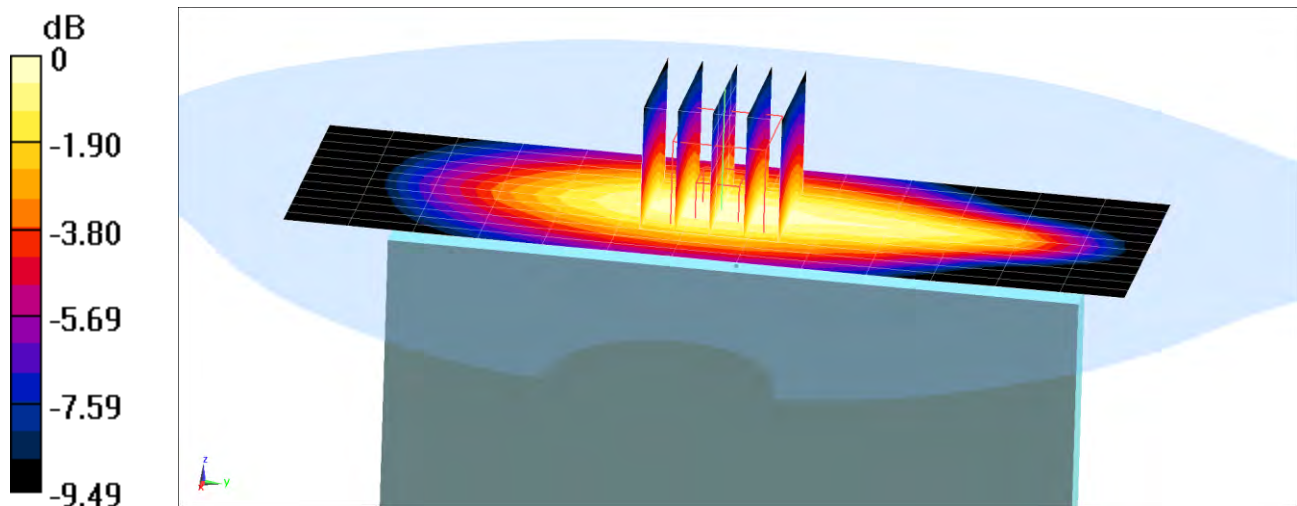
**Area Scan (13x14x1):** Measurement grid: dx=5mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.86 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.593 W/kg

**SAR(1 g) = 0.392 W/kg**



0 dB = 0.519 W/kg = -2.85 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1389M**

Communication System: UID 0, LTE Band 13; Frequency: 782 MHz; Duty Cycle: 1:1

Medium: 750 Body; Medium parameters used (interpolated):

$f = 782 \text{ MHz}$ ;  $\sigma = 0.959 \text{ S/m}$ ;  $\epsilon_r = 53.908$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 02-21-2019; Ambient Temp: 21.2°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN3589; ConvF(8.34, 8.34, 8.34) @ 782 MHz; Calibrated: 1/25/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1450; Calibrated: 8/22/2018

Phantom: SAM 5.0 front; Type: QD000P40CD; Serial: 1648

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 13, UMPC Body SAR, Back side, Mid.ch,  
10 MHz Bandwidth, QPSK, 1 RB, 49 RB Offset**

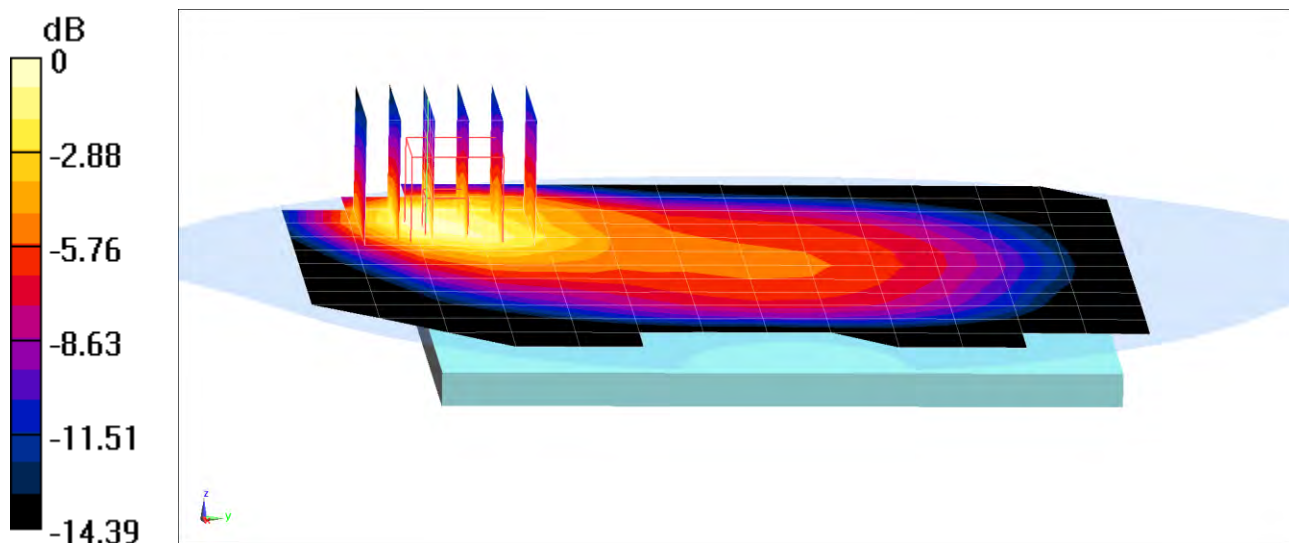
**Area Scan (13x14x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 22.87 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.873 W/kg

**SAR(1 g) = 0.495 W/kg;**



0 dB = 0.706 W/kg = -1.51 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1389M**

Communication System: UID 0, LTE Band 14; Frequency: 793 MHz; Duty Cycle: 1:1

Medium: 750 Body; Medium parameters used (interpolated):

$f = 793 \text{ MHz}$ ;  $\sigma = 0.963 \text{ S/m}$ ;  $\epsilon_r = 53.877$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 02-21-2019; Ambient Temp: 21.2°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN3589; ConvF(8.34, 8.34, 8.34) @ 793 MHz; Calibrated: 1/25/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1450; Calibrated: 8/22/2018

Phantom: SAM 5.0 front; Type: QD000P40CD; Serial: 1648

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 14, UMPC Body SAR, Back side, Mid.ch,  
10 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

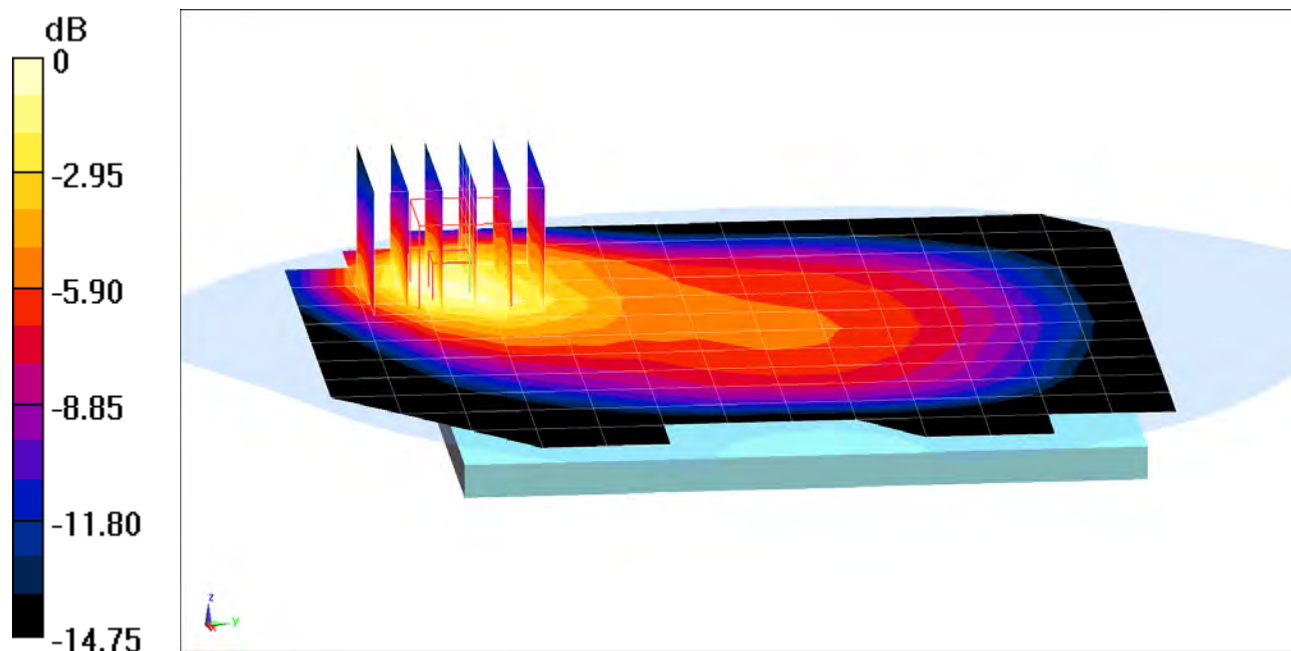
**Area Scan (13x14x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 22.73 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.880 W/kg

**SAR(1 g) = 0.496 W/kg**



0 dB = 0.708 W/kg = -1.50 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1366M**

Communication System: UID 0, LTE Band 26; Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium: 835 Body; Medium parameters used (interpolated):

$f = 831.5 \text{ MHz}$ ;  $\sigma = 0.954 \text{ S/m}$ ;  $\epsilon_r = 52.967$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 02-20-2019; Ambient Temp: 21.7°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN7357; ConvF(10.17, 10.17, 10.17) @ 831.5 MHz; Calibrated: 4/18/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/11/2018

Phantom: SAM with CRP v5.0 Front; Type: QD000P40CD; Serial: 1646

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 26 (Cell.), UMPC Body SAR, Back side, Mid.ch,  
15 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

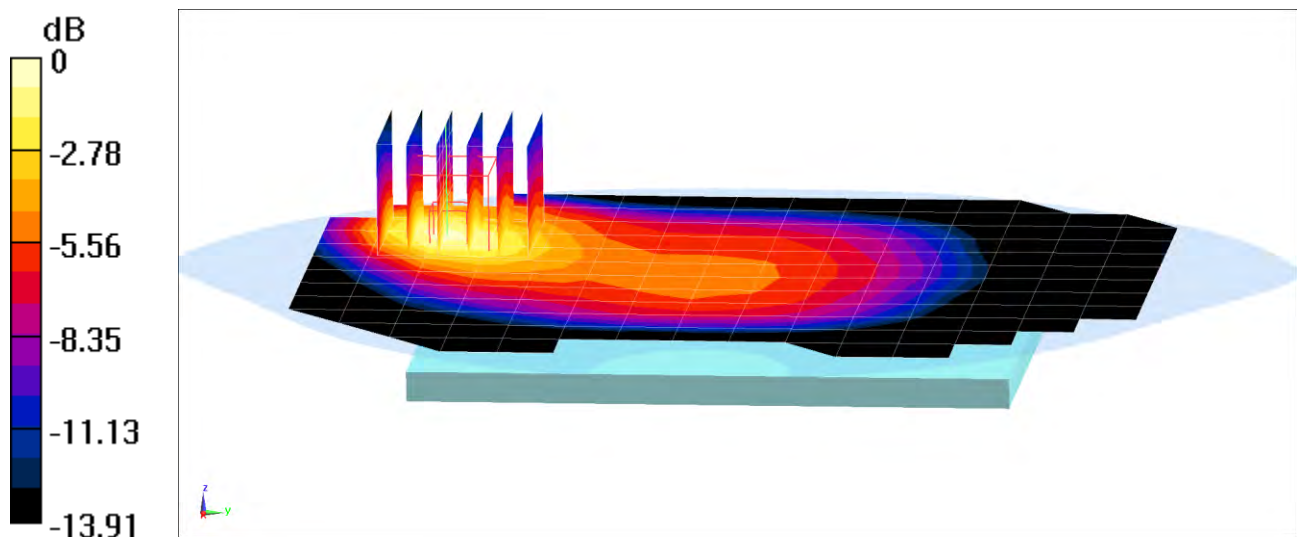
**Area Scan (13x16x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 19.46 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.579 W/kg

**SAR(1 g) = 0.341 W/kg**



0 dB = 0.486 W/kg = -3.13 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1362M**

Communication System: UID 0, LTE Band 66 (AWS); Frequency: 1770 MHz; Duty Cycle: 1:1

Medium: 1750 Body; Medium parameters used (interpolated):

$f = 1770 \text{ MHz}$ ;  $\sigma = 1.53 \text{ S/m}$ ;  $\epsilon_r = 51.175$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.3 cm

Test Date: 02-24-2019; Ambient Temp: 21.3°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN7410; ConvF(8.06, 8.06, 8.06) @ 1770 MHz; Calibrated: 7/20/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2018

Phantom: SAM Left; Type: QD000P40CA; Serial: TP:82355

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 66 (AWS), UMPC Body SAR, Bottom Edge, High.ch,  
20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

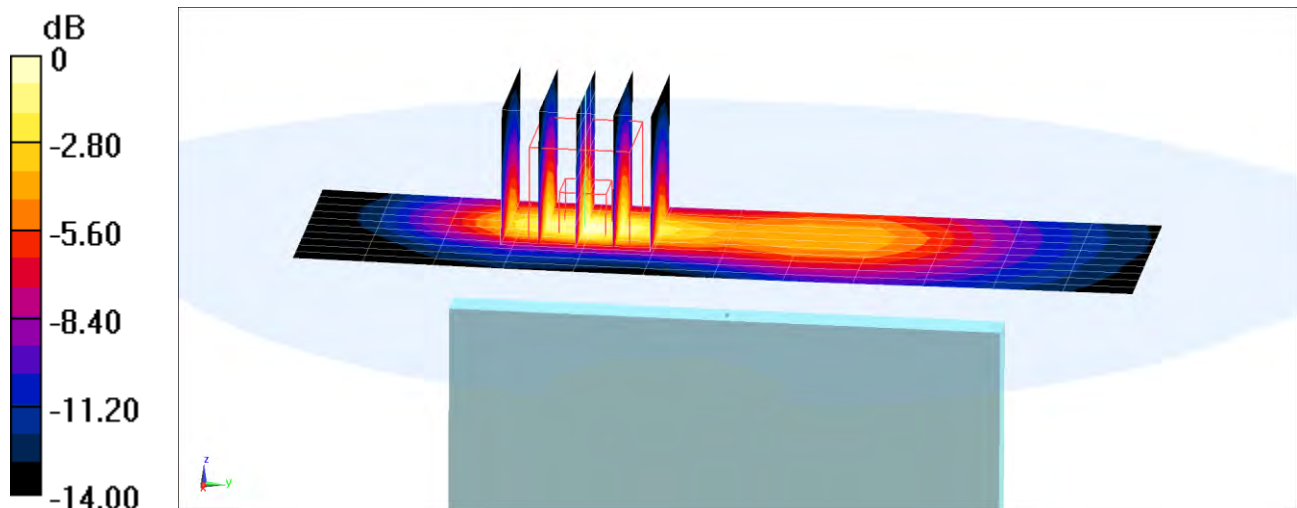
**Area Scan (11x13x1):** Measurement grid:  $dx=5\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 22.63 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.19 W/kg

**SAR(1 g) = 0.693 W/kg**



0 dB = 1.03 W/kg = 0.13 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1362M**

Communication System: UID 0, LTE Band 25 (PCS); Frequency: 1882.5 MHz; Duty Cycle: 1:1

Medium: 1900 Body; Medium parameters used (interpolated):

$f = 1882.5 \text{ MHz}$ ;  $\sigma = 1.55 \text{ S/m}$ ;  $\epsilon_r = 52.946$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.3 cm

Test Date: 03-02-2019; Ambient Temp: 21.0°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN7488; ConvF(8.37, 8.37, 8.37) @ 1882.5 MHz; Calibrated: 1/24/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1530; Calibrated: 1/15/2019

Phantom: SAM Left; Type: QD000P40CC; Serial: TP: 1375

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 25 (PCS), UMPC Body SAR, Bottom Edge, Mid.ch,  
20 MHz Bandwidth, QPSK, 1 RB, 50 RB Offset**

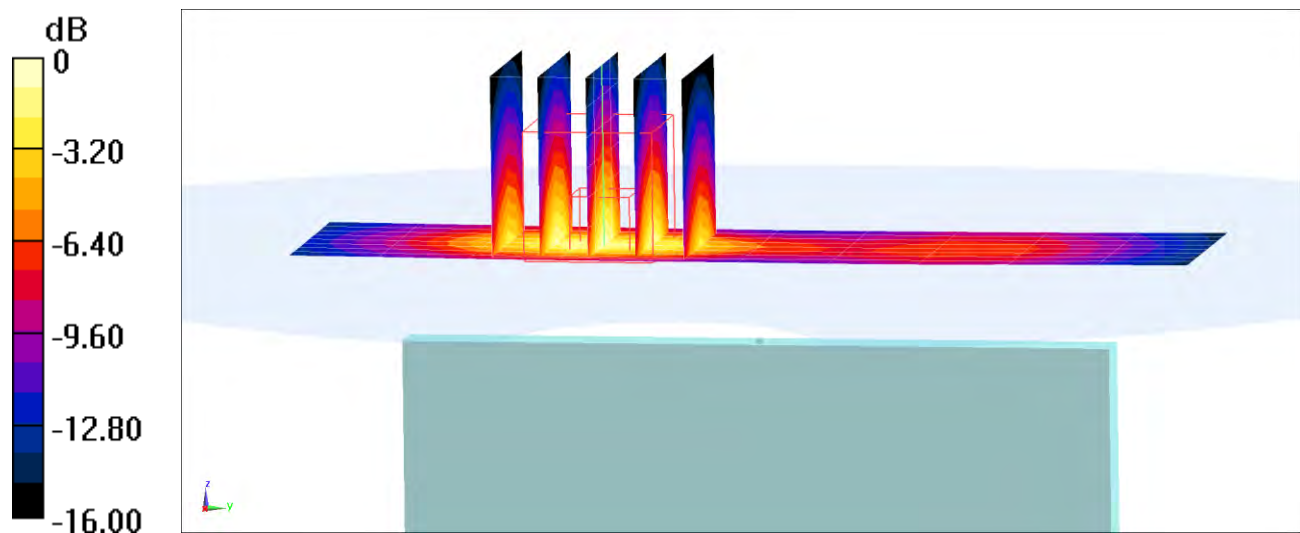
**Area Scan (9x11x1):** Measurement grid:  $dx=5\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 26.59 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.70 W/kg

**SAR(1 g) = 0.973 W/kg**



0 dB = 1.45 W/kg = 1.61 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1404M**

Communication System: UID 0, LTE Band 30; Frequency: 2310 MHz; Duty Cycle: 1:1

Medium: 2450 MHz Body; Medium parameters used:

$f = 2310 \text{ MHz}$ ;  $\sigma = 1.901 \text{ S/m}$ ;  $\epsilon_r = 53.517$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.3 cm

Test Date: 03-06-2019; Ambient Temp: 22.6°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN7308; ConvF(7.73, 7.73, 7.73) @ 2310 MHz; Calibrated: 8/23/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1558; Calibrated: 10/3/2018

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1630

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 30, UMPC Body SAR, Bottom Edge, Mid.ch,  
10 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

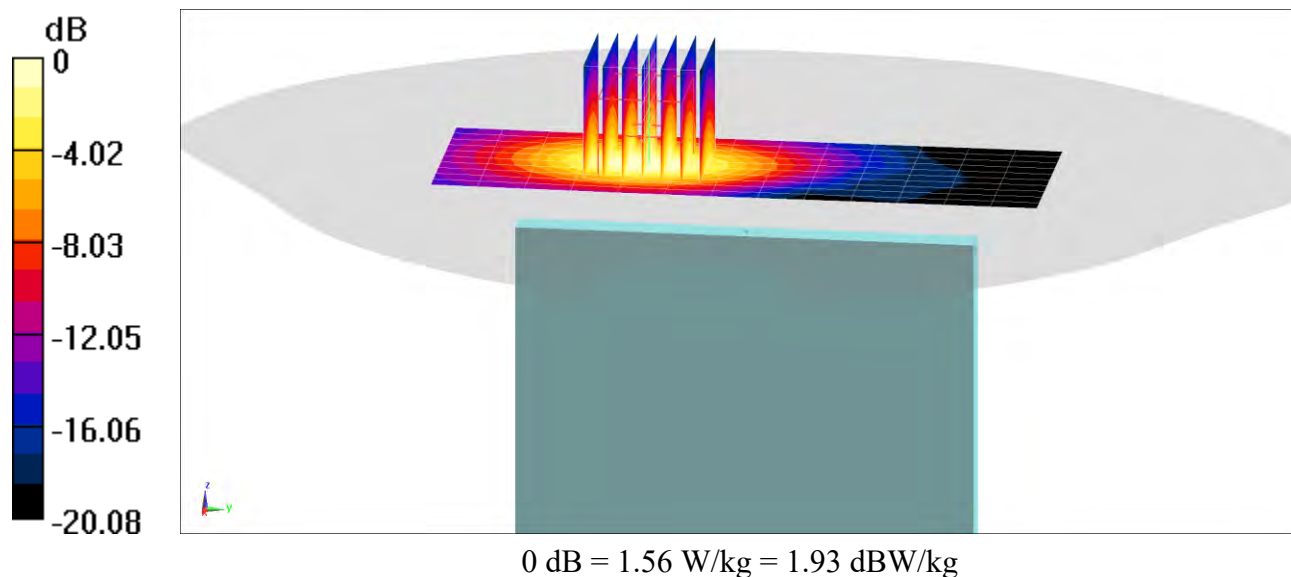
**Area Scan (11x14x1):** Measurement grid:  $dx=5\text{mm}$ ,  $dy=12\text{mm}$

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 24.57 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 1.88 W/kg

**SAR(1 g) = 0.998 W/kg**



# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1382M**

Communication System: UID 0, LTE Band 7; Frequency: 2560 MHz; Duty Cycle: 1:1

Medium: 2450 Body Medium parameters used (interpolated):

$f = 2560 \text{ MHz}$ ;  $\sigma = 2.166 \text{ S/m}$ ;  $\epsilon_r = 52.189$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.3 cm

Test Date: 02-18-2019; Ambient Temp: 21.9°C; Tissue Temp: 22.8°C

Probe: ES3DV3 - SN3319; ConvF(4.33, 4.33, 4.33) @ 2560 MHz; Calibrated: 3/13/2018

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1368; Calibrated: 3/7/2018

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 7, UMPC Body SAR, Bottom Edge, High.ch,  
20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

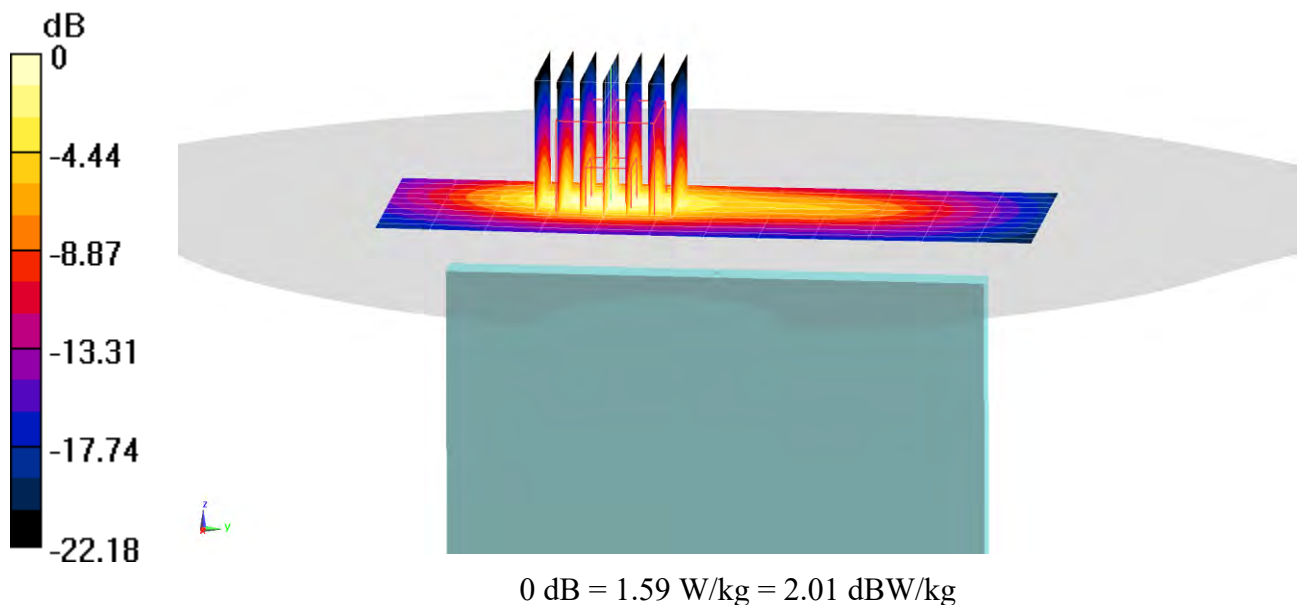
**Area Scan (10x11x1):** Measurement grid:  $dx=5\text{mm}$ ,  $dy=12\text{mm}$

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 26.62 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 2.47 W/kg

**SAR(1 g) = 1.23 W/kg**



# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1404M**

Communication System: UID 0, LTE Band 41; Frequency: 2680 MHz; Duty Cycle: 1:1.58

Medium: 2450 Body Medium parameters used (interpolated):

$f = 2680 \text{ MHz}$ ;  $\sigma = 2.314 \text{ S/m}$ ;  $\epsilon_r = 51.779$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.3 cm

Test Date: 02-18-2019; Ambient Temp: 21.9°C; Tissue Temp: 22.8°C

Probe: ES3DV3 - SN3319; ConvF(4.33, 4.33, 4.33) @ 2680 MHz; Calibrated: 3/13/2018

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1368; Calibrated: 3/7/2018

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 41, UMPC Body SAR, Bottom Edge, High.ch,  
20 MHz Bandwidth, QPSK, 1 RB, 99 RB Offset**

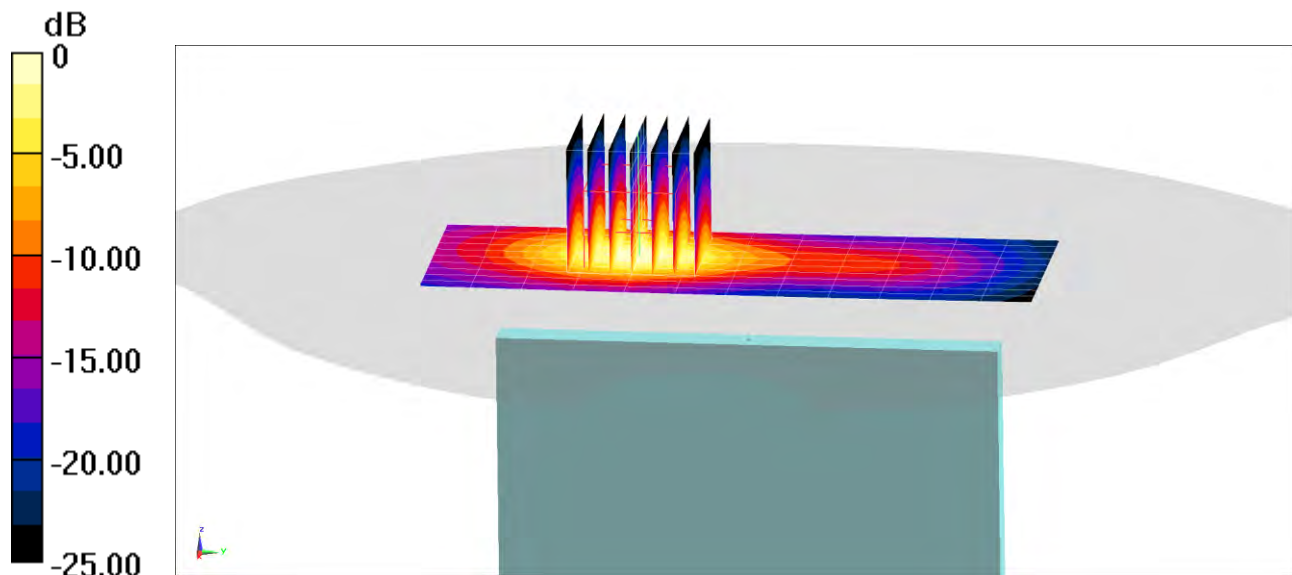
**Area Scan (11x13x1):** Measurement grid:  $dx=5\text{mm}$ ,  $dy=12\text{mm}$

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 21.84 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 2.00 W/kg

**SAR(1 g) = 0.942 W/kg**



0 dB = 1.24 W/kg = 0.93 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1385M**

Communication System: UID 0, IEEE 802.11b; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: 2450 Body Medium parameters used (interpolated):

$f = 2412 \text{ MHz}$ ;  $\sigma = 1.988 \text{ S/m}$ ;  $\epsilon_r = 52.117$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 02-13-2019; Ambient Temp: 22.2°C; Tissue Temp: 21.2°C

Probe: ES3DV3 - SN3319; ConvF(4.51, 4.51, 4.51) @ 2412 MHz; Calibrated: 3/13/2018

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1368; Calibrated: 3/7/2018

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: IEEE 802.11b, Antenna 1, 22 MHz Bandwidth, UMPC Body SAR, Ch 01, 1 Mbps, Top Edge**

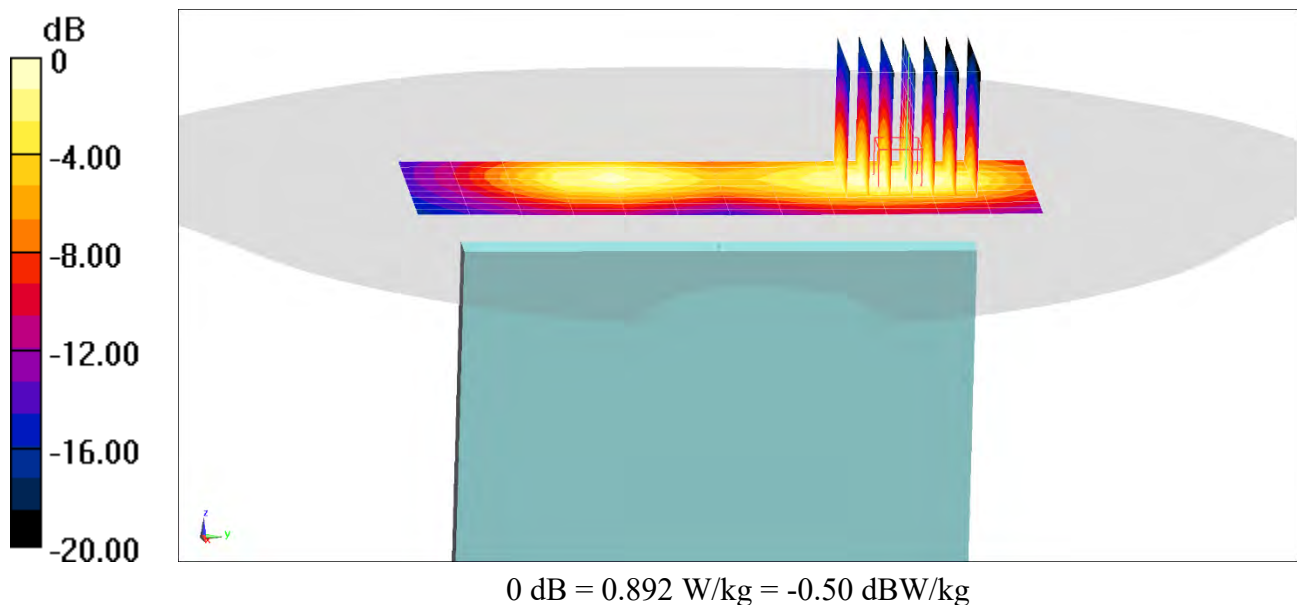
**Area Scan (10x11x1):** Measurement grid:  $dx=5\text{mm}$ ,  $dy=12\text{mm}$

**Zoom Scan (8x8x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 9.592 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.954 W/kg

**SAR(1 g) = 0.493 W/kg**



# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1360M**

Communication System: UID 0, IEEE 802.11a 5.2-5.8 GHz Band; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: 5 GHz Body; Medium parameters used:

$f = 5500 \text{ MHz}$ ;  $\sigma = 5.81 \text{ S/m}$ ;  $\epsilon_r = 47.291$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 02-13-2019; Ambient Temp: 22.6°C; Tissue Temp: 20.1°C

Probe: EX3DV4 - SN7308; ConvF(4, 4, 4) @ 5500 MHz; Calibrated: 8/23/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1558; Calibrated: 10/3/2018

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1630

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7450)

**Mode: IEEE 802.11a, Antenna 1, U-NII-2C, 20 MHz Bandwidth,  
UMPC Body SAR, Ch 100, 6 Mbps, Back Side**

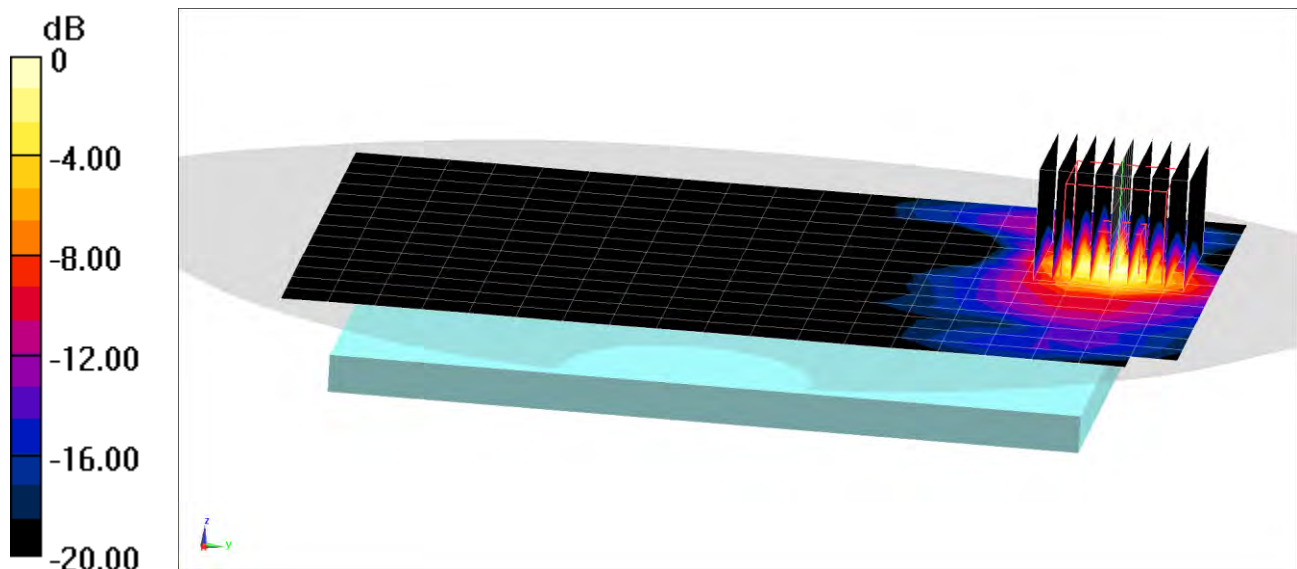
**Area Scan (15x20x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

**Zoom Scan (10x9x7)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=1.4\text{mm}$ ; Graded Ratio: 1.4

Reference Value = 11.61 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 2.83 W/kg

**SAR(1 g) = 0.722 W/kg**



0 dB = 1.72 W/kg = 2.36 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1385M**

Communication System: UID 0, Bluetooth; Frequency: 2402 MHz; Duty Cycle: 1:1.297

Medium: 2450 Body; Medium parameters used (interpolated):

$f = 2402$  MHz;  $\sigma = 1.975$  S/m;  $\epsilon_r = 52.143$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 02-13-2019; Ambient Temp: 22.2°C; Tissue Temp: 21.2°C

Probe: ES3DV3 - SN3319; ConvF(4.51, 4.51, 4.51) @ 2402 MHz; Calibrated: 3/13/2018

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1368; Calibrated: 3/7/2018

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7450)

**Mode: Bluetooth, UMPC Body SAR, Ch 0, 1 Mbps, Top Edge**

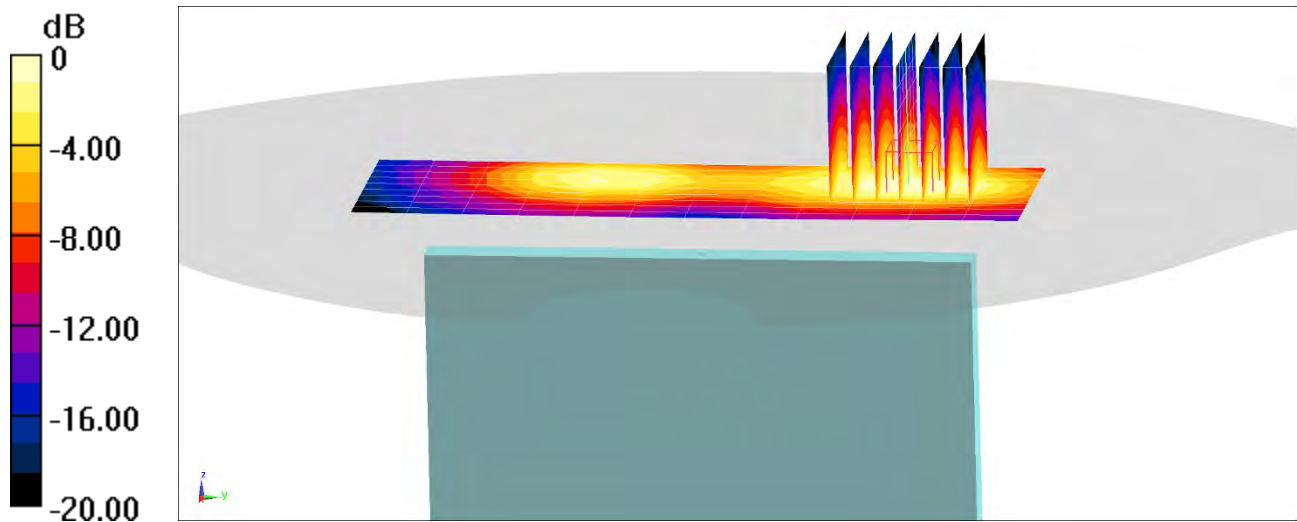
**Area Scan (10x11x1):** Measurement grid: dx=5mm, dy=12mm

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.770 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.197 W/kg

**SAR(1 g) = 0.100 W/kg**



# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1385M**

Communication System: UID 0, GSM GPRS; 3 Tx slots; Frequency: 836.6 MHz; Duty Cycle: 1:2.76

Medium: 835 Body; Medium parameters used (interpolated):

$f = 836.6$  MHz;  $\sigma = 0.958$  S/m;  $\epsilon_r = 52.915$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 02-20-2019; Ambient Temp: 21.7°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN7357; ConvF(10.17, 10.17, 10.17) @ 836.6 MHz; Calibrated: 4/18/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/11/2018

Phantom: SAM with CRP v5.0 Front; Type: QD000P40CD; Serial: 1646

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7450)

**Mode: GPRS 850, UMPC Extremity SAR, Bottom Edge, Mid.ch, 3 Tx Slots**

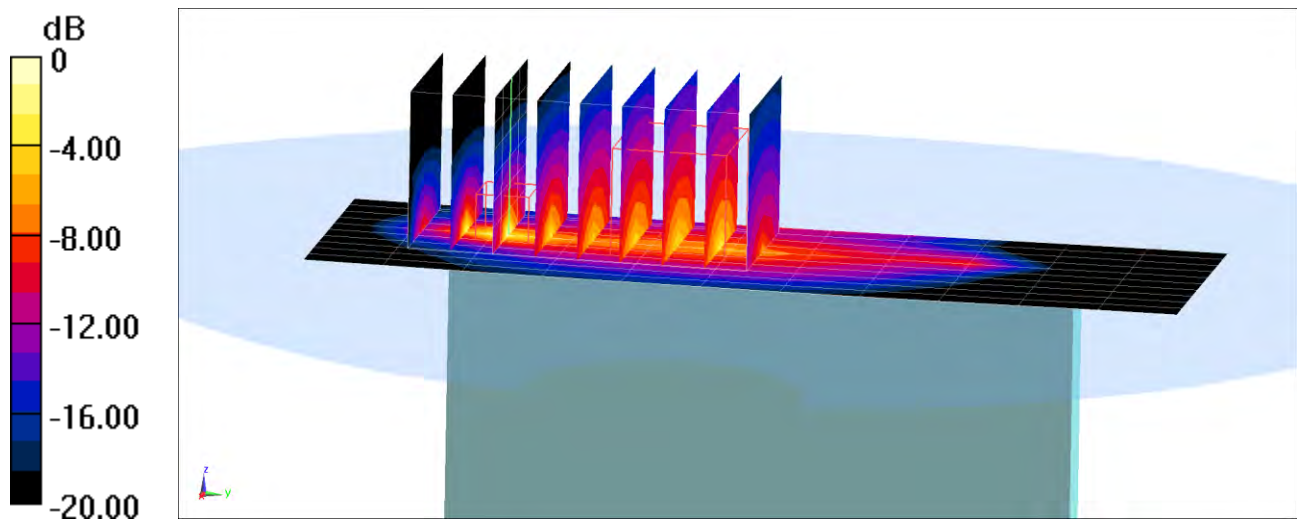
**Area Scan (11x12x1):** Measurement grid: dx=5mm, dy=15mm

**Zoom Scan (5x9x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 38.16 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 11.7 W/kg

**SAR(10 g) = 1.33 W/kg**



0 dB = 8.17 W/kg = 9.12 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1362M**

Communication System: UID 0, GSM GPRS; 2 Tx slots; Frequency: 1880 MHz; Duty Cycle: 1:4.15

Medium: 1900 Body; Medium parameters used:

$f = 1880 \text{ MHz}$ ;  $\sigma = 1.542 \text{ S/m}$ ;  $\epsilon_r = 51.397$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 03-05-2019; Ambient Temp: 21.7°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN7488; ConvF(8.37, 8.37, 8.37) @ 1880 MHz; Calibrated: 1/24/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1530; Calibrated: 1/15/2019

Phantom: SAM Left; Type: QD000P40CC; Serial: TP: 1375

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: GPRS 1900, UMPC Extremity SAR, Bottom Edge, Mid.ch, 2 Tx Slots**

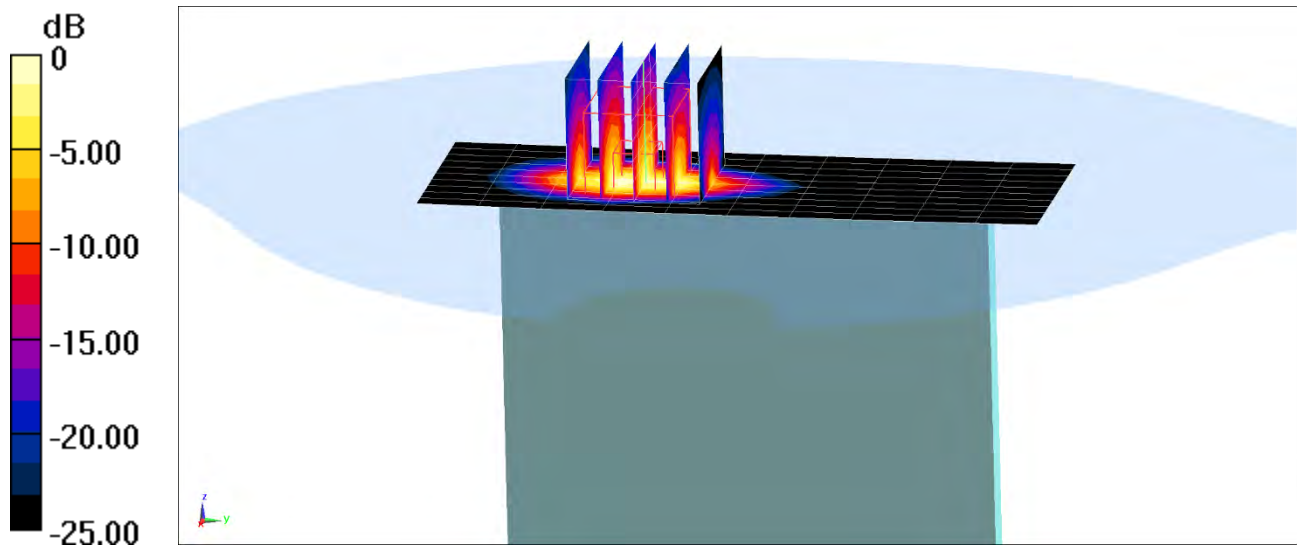
**Area Scan (11x11x1):** Measurement grid:  $dx=5\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 69.50 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 14.7 W/kg

**SAR(10 g) = 2.35 W/kg**



0 dB = 12.1 W/kg = 10.83 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1366M**

Communication System: UID 0, UMTS; Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium: 835 Body Medium parameters used (interpolated):

$f = 836.6 \text{ MHz}$ ;  $\sigma = 0.977 \text{ S/m}$ ;  $\epsilon_r = 53.758$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 02-18-2019; Ambient Temp: 21.5°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7357; ConvF(10.17, 10.17, 10.17) @ 836.6 MHz; Calibrated: 4/18/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/11/2018

Phantom: SAM with CRP v5.0 Front; Type: QD000P40CD; Serial: 1646

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7450)

**Mode: UMTS 850, UMPC Extremity SAR, Right Edge, Mid.ch**

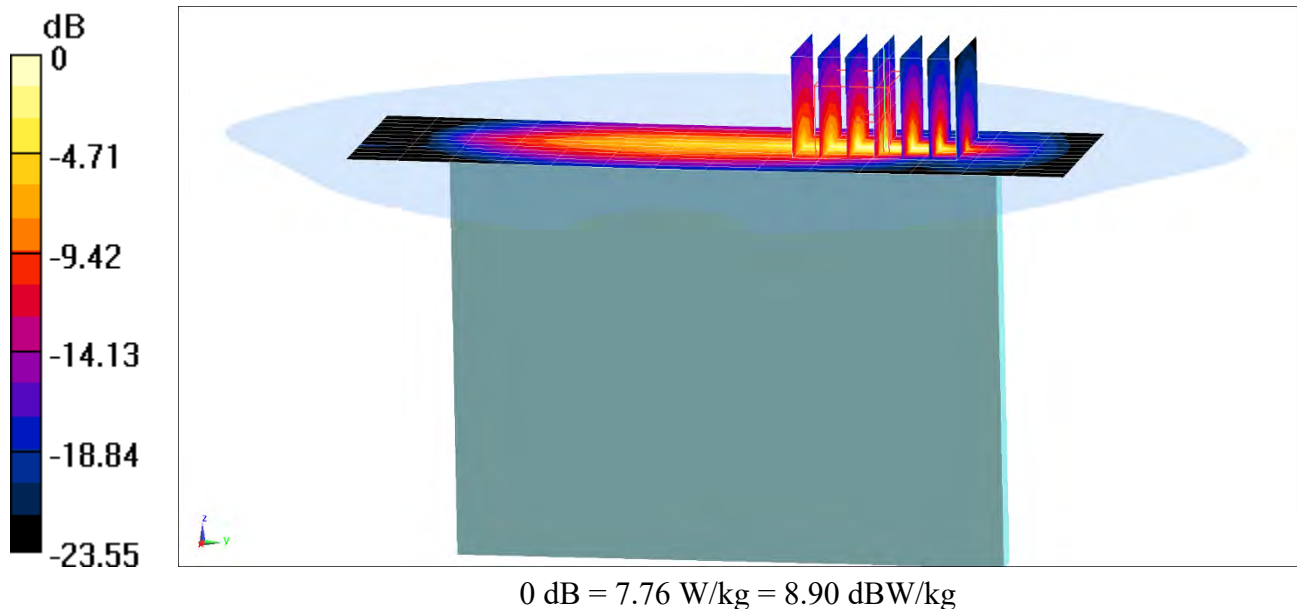
**Area Scan (13x15x1):** Measurement grid:  $dx=5\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x7x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 51.38 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 11.8 W/kg

**SAR(10 g) = 1.11 W/kg**



# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1407M**

Communication System: UID 0, UMTS; Frequency: 1732.4 MHz; Duty Cycle: 1:1

Medium: 1750 Body; Medium parameters used (interpolated):

$f = 1732.4$  MHz;  $\sigma = 1.49$  S/m;  $\epsilon_r = 51.594$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 02-22-2019; Ambient Temp: 23.2°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7410; ConvF(8.06, 8.06, 8.06) @ 1732.4 MHz; Calibrated: 7/20/2018

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2018

Phantom: SAM Left; Type: QD000P40CA; Serial: TP:82355

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: UMTS 1750, UMPC Extremity SAR, Bottom Edge, Mid.ch**

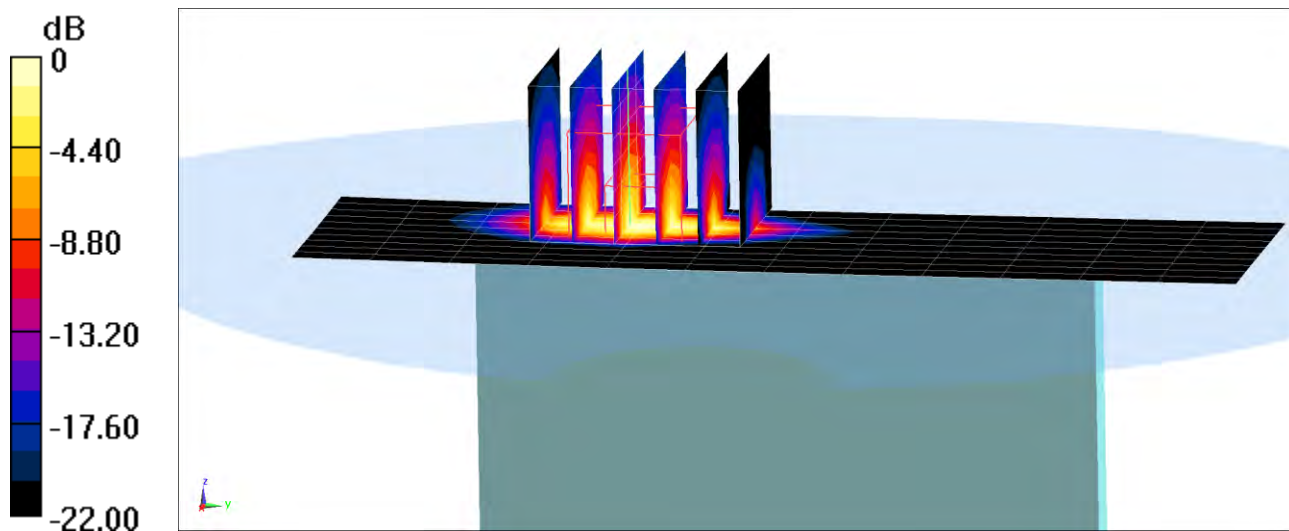
**Area Scan (11x13x1):** Measurement grid: dx=5mm, dy=15mm

**Zoom Scan (5x6x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 64.39 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 14.0 W/kg

**SAR(10 g) = 2.38 W/kg**



0 dB = 11.5 W/kg = 10.61 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1362M**

Communication System: UID 0, UMTS; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: 1900 Body; Medium parameters used:

$f = 1880 \text{ MHz}$ ;  $\sigma = 1.542 \text{ S/m}$ ;  $\epsilon_r = 51.397$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 03-05-2019; Ambient Temp: 21.7°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN7488; ConvF(8.37, 8.37, 8.37) @ 1880 MHz; Calibrated: 1/24/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1530; Calibrated: 1/15/2019

Phantom: SAM Left; Type: QD000P40CC; Serial: TP: 1375

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7450)

**Mode: UMTS 1900, UMPC Extremity SAR, Bottom Edge, Mid.ch**

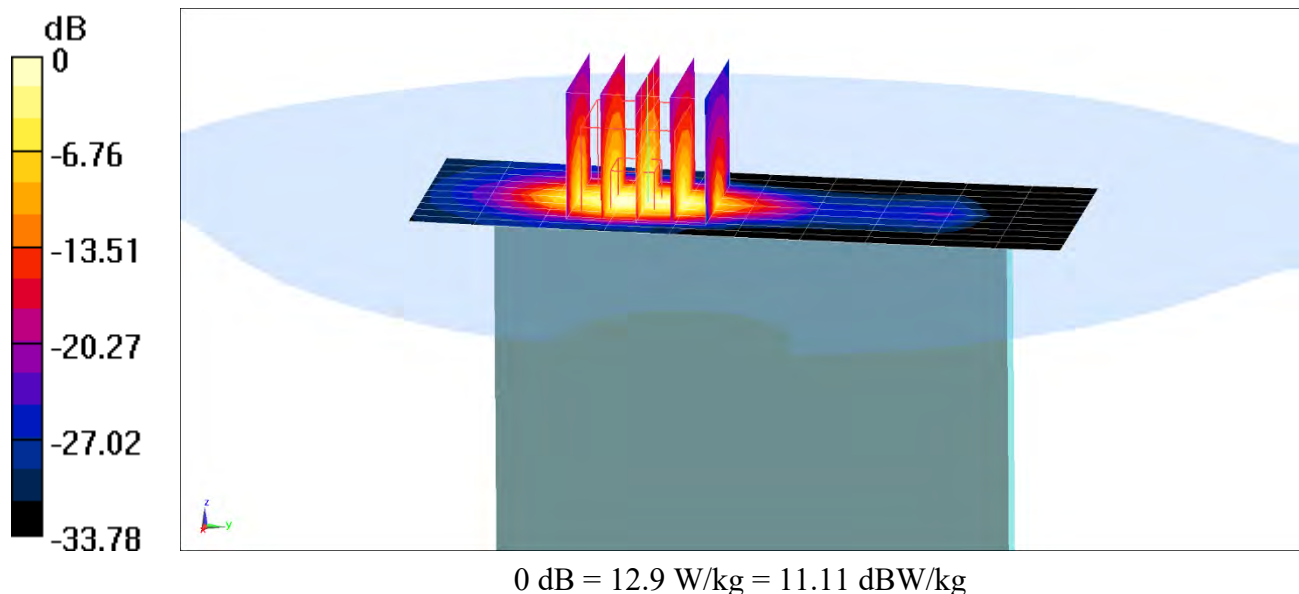
**Area Scan (11x11x1):** Measurement grid:  $dx=5\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 70.72 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 15.9 W/kg

**SAR(10 g) = 2.42 W/kg**



# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1358M**

Communication System: UID 0, LTE Band 71; Frequency: 680.5 MHz; Duty Cycle: 1:1

Medium: 750 Body; Medium parameters used (interpolated):

$f = 680.5 \text{ MHz}$ ;  $\sigma = 0.916 \text{ S/m}$ ;  $\epsilon_r = 54.004$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 02-25-2019; Ambient Temp: 21.8°C; Tissue Temp: 19.8°C

Probe: EX3DV4 - SN3589; ConvF(8.34, 8.34, 8.34) @ 680.5 MHz; Calibrated: 1/25/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1450; Calibrated: 8/22/2018

Phantom: SAM 5.0 front; Type: QD000P40CD; Serial: 1648

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 71, UMPC Extremity SAR, Front side, Mid.ch,  
20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

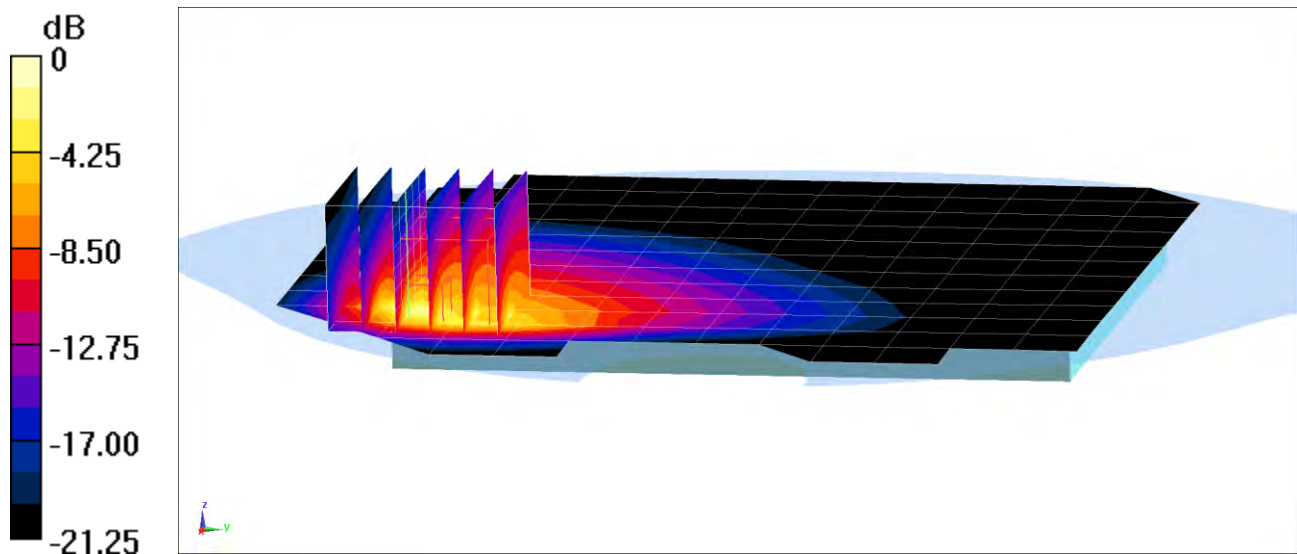
**Area Scan (13x14x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 43.24 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 8.10 W/kg

**SAR(10 g) = 1.07 W/kg**



0 dB = 5.37 W/kg = 7.30 dBW/kg

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: A3LSMF900F; Type: Portable Handset; Serial: 1358M**

Communication System: UID 0, LTE Band 12; Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium: 750 Body; Medium parameters used (interpolated):

$f = 707.5 \text{ MHz}$ ;  $\sigma = 0.931 \text{ S/m}$ ;  $\epsilon_r = 53.947$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 02-25-2019; Ambient Temp: 21.8°C; Tissue Temp: 19.8°C

Probe: EX3DV4 - SN3589; ConvF(8.34, 8.34, 8.34) @ 707.5 MHz; Calibrated: 1/25/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1450; Calibrated: 8/22/2018

Phantom: SAM 5.0 front; Type: QD000P40CD; Serial: 1648

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**Mode: LTE Band 12, UMPC Extremity SAR, Front side, Mid.ch,  
10 MHz Bandwidth, QPSK, 1 RB, 25 RB Offset**

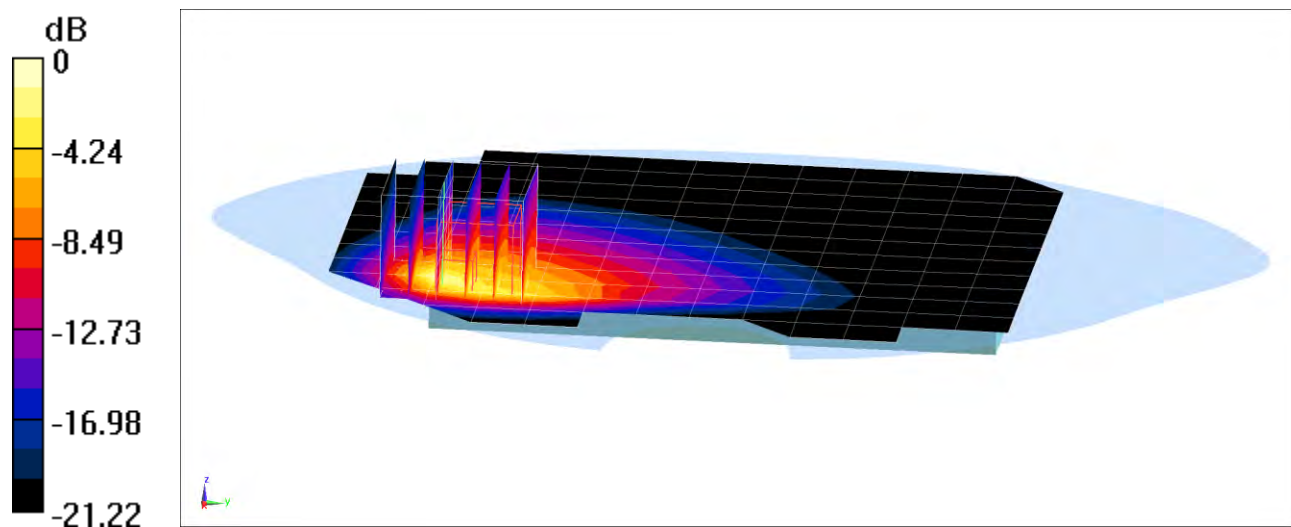
**Area Scan (13x14x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 42.88 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 7.83 W/kg

**SAR(10 g) = 1.08 W/kg**



0 dB = 5.18 W/kg = 7.14 dBW/kg