



# ELEMENT MATERIALS TECHNOLOGY

(formerly PCTEST)

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## RF EXPOSURE PART 1 TEST REPORT

### Applicant Name:

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

### Date of Testing:

09/15/2024 – 11/04/2024

### Test Site/Locations:

Element, Columbia, MD, USA  
Element Morgan Hill, CA, USA  
Element, Suwon, Korea

### Document Serial No.:

1M2408260069-01.A3L (Rev1)

FCC ID:

A3LSMS938B

APPLICANT:

SAMSUNG ELECTRONICS CO., LTD.

DUT Type:

Portable Handset

Application Type:

Certification

FCC Rule Part(s):

CFR §2.1093

Model(s):

SM-S938B/DS

Additional Model(s):

SM-S938B

| Equipment Class                               | Band & Mode       | Tx Frequency                                                                                             | SAR            |                     |                   |                    |
|-----------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------|----------------|---------------------|-------------------|--------------------|
|                                               |                   |                                                                                                          | 1g Head (W/kg) | 1g Body-Worn (W/kg) | 1g Hotspot (W/kg) | 1g Preamble (W/kg) |
| PCE                                           | OSMPPREEDGE 800   | 824.20 - 848.80 MHz                                                                                      | 1.03           | 0.52                | 0.70              | N/A                |
| PCE                                           | OSMPPREEDGE 1900  | 1850.20 - 1909.80 MHz                                                                                    | <0.1           | 0.42                | 0.90              | N/A                |
| PCE                                           | UMTS 800          | 824.40 - 848.60 MHz                                                                                      | 0.96           | 0.50                | 0.62              | N/A                |
| PCE                                           | UMTS 1700         | 1710.2 - 1725.8 MHz                                                                                      | 0.13           | 0.69                | 1.01              | N/A                |
| PCE                                           | UMTS 1900         | 1850.4 - 1907.6 MHz                                                                                      | 0.17           | 0.53                | 1.16              | N/A                |
| PCE                                           | LTE Band 14       | 680.7 - 715.3 MHz                                                                                        | 1.18           | 0.36                | 0.47              | N/A                |
| PCE                                           | LTE Band 17       | 726.5 - 732.5 MHz                                                                                        | N/A            | N/A                 | N/A               | N/A                |
| PCE                                           | LTE Band 13       | 779.5 - 784.5 MHz                                                                                        | 1.07           | 0.51                | 0.71              | N/A                |
| PCE                                           | LTE Band 25       | 814.7 - 848.3 MHz                                                                                        | 1.17           | 0.52                | 0.68              | N/A                |
| PCE                                           | LTE Band 5        | 851.7 - 868.3 MHz                                                                                        | N/A            | N/A                 | N/A               | N/A                |
| PCE                                           | LTE Band 36       | 1710.7 - 1725.3 MHz                                                                                      | 1.00           | 0.45                | 1.06              | N/A                |
| PCE                                           | LTE Band 4        | 1710.7 - 1725.3 MHz                                                                                      | N/A            | N/A                 | N/A               | N/A                |
| PCE                                           | LTE Band 25       | 1850.7 - 1914.3 MHz                                                                                      | 1.09           | 0.44                | 1.18              | N/A                |
| PCE                                           | LTE Band 7        | 1920.7 - 1930.3 MHz                                                                                      | N/A            | N/A                 | N/A               | N/A                |
| PCE                                           | LTE Band 31       | 2486.5 - 2497.5 MHz                                                                                      | 1.05           | 0.49                | 0.50              | N/A                |
| PCE                                           | NR Band 41        | 2810.5 - 3060.5 MHz                                                                                      | 0.98           | 0.59                | 0.70              | N/A                |
| PCE                                           | NR Band 48        | 3712.5 - 3777.5 MHz                                                                                      | 1.01           | 0.78                | 1.03              | N/A                |
| PCE                                           | NR Band 42        | 3712.5 - 3777.5 MHz                                                                                      | 1.00           | 0.56                | 0.89              | N/A                |
| PCE                                           | NR Band 42        | 3712.5 - 3777.5 MHz                                                                                      | N/A            | N/A                 | N/A               | N/A                |
| PCE                                           | NR Band 42        | 3712.5 - 3777.5 MHz                                                                                      | N/A            | N/A                 | N/A               | N/A                |
| PCE                                           | NR Band 42        | 3712.5 - 3777.5 MHz                                                                                      | 1.25           | 0.41                | 0.47              | N/A                |
| PCE                                           | NR Band 42        | 3712.5 - 3777.5 MHz                                                                                      | 0.81           | 0.39                | 0.54              | N/A                |
| PCE                                           | NR Band 42        | 3712.5 - 3777.5 MHz                                                                                      | 0.76           | 0.54                | 0.81              | N/A                |
| DTS                                           | 2.4 GHz WIF       | 2412 - 2472 MHz                                                                                          | 0.76           | 0.54                | 0.81              | N/A                |
| NI                                            | 5 GHz WIF         | UNII-1: 5150 - 5240 MHz                                                                                  | 0.89           | 0.48                | 0.48              | 1.81               |
|                                               |                   | UNII-2A: 5250 - 5320 MHz                                                                                 |                |                     |                   |                    |
|                                               |                   | UNII-2C: 5300 - 5700 MHz                                                                                 |                |                     |                   |                    |
|                                               |                   | UNII-3: 5740 - 6020 MHz                                                                                  |                |                     |                   |                    |
|                                               |                   | UNII-4: 5945 - 5985 MHz                                                                                  |                |                     |                   |                    |
| RCD                                           | 5 GHz WIF         | UNII-5: 6035 - 6435 MHz                                                                                  | 1.04           | <0.1                | N/A               | 0.38               |
|                                               |                   | UNII-6: 6435 - 6515 MHz                                                                                  |                |                     |                   |                    |
|                                               |                   | UNII-7: 6515 - 6775 MHz                                                                                  |                |                     |                   |                    |
|                                               |                   | UNII-8: 6875 - 7115 MHz                                                                                  |                |                     |                   |                    |
| DIS                                           | 2.4 GHz Bluetooth | 2402 - 2480 MHz                                                                                          | 0.58           | 0.18                | 0.52              | N/A                |
| DOX                                           | RF                | 13.56 MHz                                                                                                | N/A            | N/A                 | N/A               | <0.1               |
| UWB                                           | UWB               | 649.0 - 787.7 MHz                                                                                        | N/A            | N/A                 | N/A               | <0.1               |
| Simultaneous SAR per 100W (60/30/30/30/30/30) |                   |                                                                                                          | 1.04           | 1.40                | 1.40              | 1.81               |
| Equipment Class                               | Band & Mode       | Tx Frequency                                                                                             | RF Exposure    |                     |                   | Reported PD (W/m²) |
|                                               |                   |                                                                                                          | Head           | Body-Worn           | Preamble          |                    |
| RCD                                           | 6 GHz WIF         | UNII-5: 5935 - 6415 MHz<br>UNII-6: 6415 - 6515 MHz<br>UNII-7: 6515 - 6775 MHz<br>UNII-8: 6875 - 7115 MHz | 6.38           | 0.53                | 8.65              | 5.70               |
| UWB                                           | UWB               | 649.0 - 787.7 MHz                                                                                        | N/A            | N/A                 | N/A               | 0.89               |

Note: This revised test report 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 1.9 of this report; for North American frequency bands only.

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

  
RJ Ortanez  
Executive Vice President



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|                                             |                                |                                   |
|---------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: A3LSMS938B                          | RF EXPOSURE PART 1 TEST REPORT | Approved by:<br>Technical Manager |
| Document S/N:<br>1M2408260069-01.A3L (Rev1) | DUT Type:<br>Portable Handset  | Page 1 of 131                     |

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|                                                    |                                       |                                          |
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# 1 TEST LABORATORY INFORMATION

## 1.1 Introduction

This test report for device subject to testing at an accredited testing laboratory has been generated by the testing laboratory that tested the device. Measurements were performed at various locations within Element Materials Technology. Detailed location and accredited information regarding the testing laboratories are provided below.

## 1.2 Test Laboratories Information

### 1.2.1 Testing Laboratory 1

|                        |                                                                                                          |
|------------------------|----------------------------------------------------------------------------------------------------------|
| Test Firm Name         | ELEMENT MATERIALS TECHNOLOGY WASHINGTON DC LLC                                                           |
| Test Lab Location      | 7185 Oakland Mills Road, Columbia, MD 21046, United States<br>Tel. +1.410.290.6652 / Fax +1.410.290.6654 |
| Accreditation Info.    | Lab Code. (ISED): 2451B                                                                                  |
|                        | CAB Identifier (NIST): US0110                                                                            |
|                        | ISO/IEC 17025 (A2LA): CERT #2041.01                                                                      |
|                        |                        |
| Measurement System No. | C, E, G, H, J, L, O, R, S                                                                                |

### 1.2.1 Testing Laboratory 2

|                        |                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------|
| Test Firm Name         | ELEMENT MATERIALS TECHNOLOGY SAN JOSE, CA                                                             |
| Test Lab Location      | 18855 Adams Ct, Morgan Hill, CA 95037 USA United States<br>Tel. +1.408.538.5600 / Fax +1.410.290.6654 |
| Accreditation Info.    | Lab Code. (ISED): 22831                                                                               |
|                        | CAB Identifier (NIST): US0211                                                                         |
|                        | ISO/IEC 17025 (A2LA): CERT #2041.02                                                                   |
|                        |                   |
| Measurement System No. | AM1, AM4, AM7, AM8, AM13, AM14                                                                        |

### 1.2.2 Testing Laboratory 3

|                        |                                                                                          |
|------------------------|------------------------------------------------------------------------------------------|
| Test Firm Name         | ELEMENT MATERIALS TECHNOLOGY SUWON, LTD.                                                 |
| Test Lab Location      | Yongin-si, Gyeonggi-do, 16954, South Korea<br>Tel. +82.31.660.7391 / Fax +82)31-660-7318 |
| Accreditation Info.    | Lab Code. (ISED): 26168                                                                  |
|                        | CAB Identifier (NIST): KR0169                                                            |
|                        | ISO/IEC 17025 (A2LA): CERT #2041.04                                                      |
|                        |      |
| Measurement System No. | K2, K3, K4, K6                                                                           |

**Note:** For each test performed, the test site can be verified with the probe serial numbers specified in the table of Test System Verification and Equipment List.

|                                             |                                |                                   |
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## 2 DEVICE UNDER TEST

### 2.1 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 12        | Voice/Data      | 699.7 - 715.3 MHz                                                                                                                          |
| LTE Band 17        | Voice/Data      | 706.5 - 713.5 MHz                                                                                                                          |
| LTE Band 13        | Voice/Data      | 779.5 - 784.5 MHz                                                                                                                          |
| LTE Band 26        | Voice/Data      | 814.7 - 848.3 MHz                                                                                                                          |
| LTE Band 5         | Voice/Data      | 824.7 - 848.3 MHz                                                                                                                          |
| LTE Band 66        | Voice/Data      | 1710.7 - 1779.3 MHz                                                                                                                        |
| LTE Band 4         | Voice/Data      | 1710.7 - 1754.3 MHz                                                                                                                        |
| LTE Band 25        | Voice/Data      | 1850.7 - 1914.3 MHz                                                                                                                        |
| LTE Band 2         | Voice/Data      | 1850.7 - 1909.3 MHz                                                                                                                        |
| LTE Band 41        | Voice/Data      | 2498.5 - 2687.5 MHz                                                                                                                        |
| NR Band n5         | Voice/Data      | 826.5 - 846.5 MHz                                                                                                                          |
| NR Band n66        | Voice/Data      | 1712.5 - 1777.5 MHz                                                                                                                        |
| NR Band n25        | Voice/Data      | 1852.5 - 1912.5 MHz                                                                                                                        |
| NR Band n2         | Voice/Data      | 1852.5 - 1907.5 MHz                                                                                                                        |
| NR Band n41        | Voice/Data      | 2501.01 - 2685 MHz                                                                                                                         |
| NR Band n77        | Voice/Data      | 3455.01 - 3544.98 MHz;<br>3705 - 3975 MHz                                                                                                  |
| 2.4 GHz WIFI       | Voice/Data      | 2412 - 2462 MHz                                                                                                                            |
| 5 GHz WIFI         | Voice/Data      | U-NII-1: 5180 - 5240 MHz<br>U-NII-2A: 5260 - 5320 MHz<br>U-NII-2C: 5500 - 5720 MHz<br>U-NII-3: 5745 - 5825 MHz<br>U-NII-4: 5845 - 5885 MHz |
| 6 GHz WIFI         | Voice/Data      | U-NII-5: 5945 - 6415 MHz<br>U-NII-6: 6435 - 6515 MHz<br>U-NII-7: 6535 - 6875 MHz<br>U-NII-8: 6895 - 7115 MHz                               |
| 2.4 GHz Bluetooth  | Data            | 2402 - 2480 MHz                                                                                                                            |
| NFC                | Data            | 13.56 MHz                                                                                                                                  |
| UWB                | Data            | 6489.6 - 7987.2 MHz                                                                                                                        |

|                                             |                                |                                   |
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## 2.2 Data Referencing

| Reference Device   |              | Variant Device     | Key differences                                                            |
|--------------------|--------------|--------------------|----------------------------------------------------------------------------|
| FCC ID: A3LSMS938U |              | FCC ID: A3LSMS938B | See change documentation                                                   |
| Equipment Class    | Mode         | Data Referencing   | Comments                                                                   |
| DTS                | 2.4 GHz WIFI | Y                  | See RF Exposure Report Section 12.17, 12.18 for spot-check data            |
| NII                | 5 GHz WIFI   | Y                  | See RF Exposure Report Section 12.19, 12.20 for spot-check data            |
| 6CD                | 6 GHz WIFI   | Y/N                | See RF Exposure Report Section 12.21, 12.22 for spot-check and tested data |
| DSS                | 2.4 GHz BT   | Y/N                | See RF Exposure Report Section 12.23, 12.24 for spot-check and tested data |

Per manufacturer declaration, there are two portable handset devices FCC ID: A3LSMS938U and FCC ID: A3LSMS938B, with high degree of similarity, reference model FCC ID: A3LSMS938U and variant model FCC ID: A3LSMS938B. Both models share the same material, form factor, circuit design, and components, including antennas and their locations. The reference and variant models use the same material, form factor, circuit design, and components, including antennas and their locations. The reference and variant models have the same tune-up tolerances at WIFI/BT.

Per FCC Approved Data Referencing Test Plan, testing was done fully on the reference model FCC ID: A3LSMS938U, while spot-check verification has been performed on variant model FCC ID: A3LSMS938B. The spot check verification has been performed in the worst case for each exposure condition and if the spot check SAR value was higher, it was applied to the simultaneous transmission results and SAR CHAR on variant model FCC ID: A3LSMS938B. The reference and variant model comparison data summary is included in section 12. Please see unlicensed SAR reference test data in Appendix K: for complete compliance evaluation for the reference model.

|                                                    |                                       |                                          |
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## 2.3 Time-Averaging Algorithm for RF Exposure Compliance

### 2.3.1 Time-Averaged Algorithm

This Device is enabled with the Qualcomm® Smart Transmit Gen2 feature with antenna grouping. This feature performs time-averaging algorithm in real time to control and manage transmitting power and ensure the time-averaged RF exposure is in compliance with FCC requirements all the time. Refer to Compliance Summary document for detailed description of Qualcomm® Smart Transmit feature (report SN could be found in Section 2.11– Bibliography).

The Smart Transmit algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of  $SAR_{design\_target}$  below the predefined time-averaged power limit (i.e.,  $P_{limit}$  for WWAN sub-6/WLAN/BT radio), for each characterized technology and band. Characterization is achieved by determining  $P_{limit}$  for WWAN sub-6/WLAN/BT that corresponds to the exposure design targets after accounting for all device design related uncertainties, i.e.,  $SAR_{design\_target}$  (<FCC SAR Limit) for sub-6 radio. The SAR characterization is denoted as SAR char in this report (see SAR Summary Section and Part 0 SAR Test Results for  $P_{limit}$  Calculations Appendix).

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

|                                             |                                |                                   |
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|                          |         |                  | Maximum<br>Tune-Up<br>Output<br>Power* | Body-Worn,<br>Hotspot, or Phablet | Head               |
|--------------------------|---------|------------------|----------------------------------------|-----------------------------------|--------------------|
| Exposure Scenario        |         |                  |                                        | 1g/10g                            | 1g                 |
| Averaging Volume         |         |                  |                                        |                                   |                    |
| Spacing                  |         |                  |                                        |                                   |                    |
| DSI                      |         |                  | 0                                      | 0mm                               | 1                  |
| Technology/Band          | Antenna | Antenna<br>Group | P <sub>max</sub>                       | P <sub>limit</sub>                | P <sub>limit</sub> |
| GSM 850                  | A       | AG0              | 25.1                                   | 29.8                              | 29.8               |
| GSM 850                  | E       | AG1              | 25.1                                   | 26.5                              | 21.0               |
| GSM 1900                 | A       | AG0              | 22.1                                   | 18.8                              | 32.7               |
| UMTS 850                 | A       | AG0              | 24.0                                   | 28.5                              | 30.3               |
| UMTS 850                 | E       | AG1              | 24.0                                   | 27.0                              | 20.5               |
| UMTS 1750                | A       | AG0              | 23.0                                   | 19.0                              | 30.6               |
| UMTS 1900                | A       | AG0              | 23.0                                   | 18.0                              | 30.2               |
| LTE Band 12/17           | A       | AG0              | 24.3                                   | 27.5                              | 28.5               |
| LTE Band 12/17           | E       | AG1              | 24.3                                   | 26.0                              | 21.5               |
| LTE Band 13              | A       | AG0              | 24.0                                   | 27.2                              | 28.1               |
| LTE Band 13              | E       | AG1              | 24.0                                   | 26.4                              | 21.5               |
| LTE Band 26/5            | A       | AG0              | 24.0                                   | 28.2                              | 29.5               |
| LTE Band 26/5            | E       | AG1              | 24.0                                   | 26.5                              | 21.0               |
| LTE Band 66/4            | A       | AG0              | 23.5                                   | 19.0                              | 31.2               |
| LTE Band 66/4            | F       | AG1              | 23.5                                   | 21.0                              | 18.5               |
| LTE Band 25/2            | A       | AG0              | 23.0                                   | 18.0                              | 30.3               |
| LTE Band 25/2            | F       | AG1              | 23.0                                   | 20.0                              | 19.0               |
| LTE Band 41 PC3          | B       | AG0              | 22.0                                   | 19.0                              | 34.0               |
| LTE Band 41 PC3          | F       | AG1              | 22.0                                   | 19.0                              | 15.5               |
| LTE Band 41 PC2          | B       | AG0              | 21.4                                   | 19.0                              | 34.0               |
| LTE Band 41 PC2          | F       | AG1              | 21.4                                   | 19.0                              | 15.5               |
| NR Band n5               | A       | AG0              | 24.0                                   | 25.9                              | 30.1               |
| NR Band n5               | E       | AG1              | 24.0                                   | 26.5                              | 21.0               |
| NR Band n66              | A       | AG0              | 23.0                                   | 19.0                              | 31.5               |
| NR Band n66              | F       | AG1              | 22.5                                   | 21.0                              | 18.5               |
| NR Band n25/n2           | A       | AG0              | 22.5                                   | 18.0                              | 28.9               |
| NR Band n25/n2           | F       | AG1              | 22.5                                   | 20.0                              | 19.0               |
| NR Band n41 PC3 (Path 1) | F       | AG1              | 24.0                                   | 18.5                              | 16.5               |
| NR Band n41 PC3 (Path 1) | B       | AG0              | 21.0                                   | 19.0                              | 16.5               |
| NR Band n41 PC3 (Path 1) | E       | AG1              | 20.0                                   | 16.0                              | 13.5               |
| NR Band n41 PC3 (Path 1) | D       | AG0              | 19.0                                   | 16.0                              | 13.5               |
| NR Band n41 PC3 (Path 2) | B       | AG0              | 24.0                                   | 20.0                              | 21.0               |
| NR Band n41 PC3 (Path 2) | F       | AG1              | 21.0                                   | 18.5                              | 16.5               |
| NR Band n41 PC3 (Path 2) | D       | AG0              | 22.0                                   | 18.0                              | 19.0               |
| NR Band n41 PC3 (Path 2) | E       | AG1              | 18.0                                   | 16.0                              | 16.0               |
| NR Band n77 PC2          | F       | AG1              | 25.0                                   | 18.5                              | 14.5               |
| NR Band n77 PC2          | C       | AG0              | 19.0                                   | 14.0                              | 10.0               |
| NR Band n77 PC2          | I       | AG1              | 24.0                                   | 18.5                              | 14.5               |
| NR Band n77 PC2          | D       | AG0              | 19.0                                   | 14.0                              | 10.0               |
| 2.4 GHz WIFI             | H       | AG1              | 19.0                                   | 19.5                              | 16.0               |
| 2.4 GHz WIFI             | J       | AG1              | 19.0                                   | 25.4                              | 16.0               |
| 2.4 GHz WIFI             | MIMO    | AG1              | 17.0                                   | 19.4                              | 16.0               |
| 5 GHz WIFI               | H       | AG1              | 17.0                                   | 15.0                              | 15.0               |
| 5 GHz WIFI               | E       | AG1              | 17.0                                   | 15.0                              | 15.0               |
| 5 GHz WIFI               | MIMO    | AG1              | 17.0                                   | 15.0                              | 15.0               |
| 6 GHz WIFI               | H       | AG1              | 16.0                                   | 8.0                               | 16.8               |
| 6 GHz WIFI               | E       | AG1              | 16.0                                   | 8.0                               | 22.9               |
| 6 GHz WIFI               | MIMO    | AG1              | 16.0                                   | 8.0                               | 17.0               |
| 2.4 GHz Bluetooth        | H       | AG1              | 17.4                                   | 21.3                              | 18.5               |
| 2.4 GHz Bluetooth        | J       | AG1              | 17.4                                   | 25.9                              | 20.4               |
| 2.4 GHz Bluetooth        | MIMO    | AG1              | 12.9                                   | 17.9                              | 17.2               |
| 2.4 GHz Bluetooth LE     | H       | AG1              | 18.9                                   | 21.3                              | 18.9               |
| 2.4 GHz Bluetooth LE     | J       | AG1              | 18.4                                   | 25.9                              | 20.4               |
| 2.4 GHz Bluetooth LE     | MIMO    | AG1              | 12.9                                   | 17.9                              | 17.2               |

The maximum time-averaged output power (dBm) for any WWAN sub-6/WLAN/BT technology, band, and DSI is the minimum of ("P<sub>limit</sub> EFS" and "Maximum tune up output power P<sub>max</sub>") + 1dB device uncertainty. SAR values in this report were scaled to this maximum time-averaged output power to determine compliance per KDB Publication 447498 D01v06.

|                                             |                                |                                   |
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## 2.4 Nominal and Maximum Output Power Specifications

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

Note: Targets for 802.11ax/be RU operations can be found in 802.11ax/be RU SAR Exclusion Appendix.

### 2.4.1 Licensed Output Power

| GSM/GPRS/EDGE 850                        |                   |                   |                                    |            |            |            |                                     |            |            |            |
|------------------------------------------|-------------------|-------------------|------------------------------------|------------|------------|------------|-------------------------------------|------------|------------|------------|
| Antenna A                                |                   |                   |                                    |            |            |            |                                     |            |            |            |
| Power Level                              |                   | Voice<br>(in dBm) | Data - Burst Average GMSK (in dBm) |            |            |            | Data - Burst Average 8-PSK (in dBm) |            |            |            |
|                                          |                   | 1 TX Slot         | 1 TX Slots                         | 2 TX Slots | 3 TX Slots | 4 TX Slots | 1 TX Slots                          | 2 TX Slots | 3 TX Slots | 4 TX Slots |
| P <sub>max</sub>                         | Max Allowed Power | 33.6              | 33.6                               | 32.2       | 30.5       | 28.5       | 28.0                                | 26.0       | 24.0       | 23.0       |
|                                          | Nominal           | 32.6              | 32.6                               | 31.2       | 29.5       | 27.5       | 27.0                                | 25.0       | 23.0       | 22.0       |
| DSI = 0 (Body-Worn, Hotspot, or Phablet) | Max Allowed Power | 33.6              | 33.6                               | 32.2       | 30.5       | 28.5       | 28.0                                | 26.0       | 24.0       | 23.0       |
|                                          | Nominal           | 32.6              | 32.6                               | 31.2       | 29.5       | 27.5       | 27.0                                | 25.0       | 23.0       | 22.0       |
| DSI = 1 (Head)                           | Max Allowed Power | 33.6              | 33.6                               | 32.2       | 30.5       | 28.5       | 28.0                                | 26.0       | 24.0       | 23.0       |
|                                          | Nominal           | 32.6              | 32.6                               | 31.2       | 29.5       | 27.5       | 27.0                                | 25.0       | 23.0       | 22.0       |

| GSM/GPRS/EDGE 850                        |                   |                   |                                    |            |            |            |                                     |            |            |            |
|------------------------------------------|-------------------|-------------------|------------------------------------|------------|------------|------------|-------------------------------------|------------|------------|------------|
| Antenna E                                |                   |                   |                                    |            |            |            |                                     |            |            |            |
| Power Level                              |                   | Voice<br>(in dBm) | Data - Burst Average GMSK (in dBm) |            |            |            | Data - Burst Average 8-PSK (in dBm) |            |            |            |
|                                          |                   | 1 TX Slot         | 1 TX Slots                         | 2 TX Slots | 3 TX Slots | 4 TX Slots | 1 TX Slots                          | 2 TX Slots | 3 TX Slots | 4 TX Slots |
| P <sub>max</sub>                         | Max Allowed Power | 33.6              | 33.6                               | 32.2       | 30.5       | 28.5       | 28.0                                | 26.0       | 24.0       | 23.0       |
|                                          | Nominal           | 32.6              | 32.6                               | 31.2       | 29.5       | 27.5       | 27.0                                | 25.0       | 23.0       | 22.0       |
| DSI = 0 (Body-Worn, Hotspot, or Phablet) | Max Allowed Power | 33.6              | 33.6                               | 32.2       | 30.5       | 28.5       | 28.0                                | 26.0       | 24.0       | 23.0       |
|                                          | Nominal           | 32.6              | 32.6                               | 31.2       | 29.5       | 27.5       | 27.0                                | 25.0       | 23.0       | 22.0       |
| DSI = 1 (Head)                           | Max Allowed Power | 31.2              | 31.2                               | 28.2       | 26.4       | 25.2       | 28.0                                | 26.0       | 24.0       | 23.0       |
|                                          | Nominal           | 30.2              | 30.2                               | 27.2       | 25.4       | 24.2       | 27.0                                | 25.0       | 23.0       | 22.0       |

| GSM/GPRS/EDGE 1900                       |                   |                   |                                    |            |            |            |                                     |            |            |            |
|------------------------------------------|-------------------|-------------------|------------------------------------|------------|------------|------------|-------------------------------------|------------|------------|------------|
| Antenna A                                |                   |                   |                                    |            |            |            |                                     |            |            |            |
| Power Level                              |                   | Voice<br>(in dBm) | Data - Burst Average GMSK (in dBm) |            |            |            | Data - Burst Average 8-PSK (in dBm) |            |            |            |
|                                          |                   | 1 TX Slot         | 1 TX Slots                         | 2 TX Slots | 3 TX Slots | 4 TX Slots | 1 TX Slots                          | 2 TX Slots | 3 TX Slots | 4 TX Slots |
| P <sub>max</sub>                         | Max Allowed Power | 30.8              | 30.8                               | 28.7       | 27.5       | 25.5       | 27.0                                | 25.0       | 23.0       | 22.0       |
|                                          | Nominal           | 29.8              | 29.8                               | 27.7       | 26.5       | 24.5       | 26.0                                | 24.0       | 22.0       | 21.0       |
| DSI = 0 (Body-Worn, Hotspot, or Phablet) | Max Allowed Power | 29.0              | 29.0                               | 26.0       | 24.2       | 23.0       | 27.0                                | 25.0       | 23.0       | 22.0       |
|                                          | Nominal           | 28.0              | 28.0                               | 25.0       | 23.2       | 22.0       | 26.0                                | 24.0       | 22.0       | 21.0       |
| DSI = 1 (Head)                           | Max Allowed Power | 30.8              | 30.8                               | 28.7       | 27.5       | 25.5       | 27.0                                | 25.0       | 23.0       | 22.0       |
|                                          | Nominal           | 29.8              | 29.8                               | 27.7       | 26.5       | 24.5       | 26.0                                | 24.0       | 22.0       | 21.0       |

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

|                                             |                                |                                   |
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| UMTS Band 5 (850 MHz)                    |                   |                                         |                  |                  |                     |
|------------------------------------------|-------------------|-----------------------------------------|------------------|------------------|---------------------|
| Antenna A                                |                   |                                         |                  |                  |                     |
| Power Level                              |                   | Modulated Average Output Power (in dBm) |                  |                  |                     |
|                                          |                   | 3GPP WCDMA Rel 99                       | 3GPP HSDPA Rel 5 | 3GPP HSUPA Rel 6 | 3GPP DC-HSDPA Rel 8 |
| Pmax                                     | Max Allowed Power | 25.0                                    | 24.0             | 24.0             | 24.0                |
|                                          | Nominal           | 24.0                                    | 23.0             | 23.0             | 23.0                |
| DSI = 0 (Body-Worn, Hotspot, or Phablet) | Max Allowed Power | 25.0                                    | 24.0             | 24.0             | 24.0                |
|                                          | Nominal           | 24.0                                    | 23.0             | 23.0             | 23.0                |
| DSI = 1 (Head)                           | Max Allowed Power | 25.0                                    | 24.0             | 24.0             | 24.0                |
|                                          | Nominal           | 24.0                                    | 23.0             | 23.0             | 23.0                |

| UMTS Band 5 (850 MHz)                    |                   |                                         |                  |                  |                     |
|------------------------------------------|-------------------|-----------------------------------------|------------------|------------------|---------------------|
| Antenna E                                |                   |                                         |                  |                  |                     |
| Power Level                              |                   | Modulated Average Output Power (in dBm) |                  |                  |                     |
|                                          |                   | 3GPP WCDMA Rel 99                       | 3GPP HSDPA Rel 5 | 3GPP HSUPA Rel 6 | 3GPP DC-HSDPA Rel 8 |
| Pmax                                     | Max Allowed Power | 25.0                                    | 24.0             | 24.0             | 24.0                |
|                                          | Nominal           | 24.0                                    | 23.0             | 23.0             | 23.0                |
| DSI = 0 (Body-Worn, Hotspot, or Phablet) | Max Allowed Power | 25.0                                    | 24.0             | 24.0             | 24.0                |
|                                          | Nominal           | 24.0                                    | 23.0             | 23.0             | 23.0                |
| DSI = 1 (Head)                           | Max Allowed Power | 21.5                                    | 20.5             | 20.5             | 20.5                |
|                                          | Nominal           | 20.5                                    | 19.5             | 19.5             | 19.5                |

| UMTS Band 4 (1750 MHz)                   |                   |                                         |                  |                  |                     |
|------------------------------------------|-------------------|-----------------------------------------|------------------|------------------|---------------------|
| Antenna A                                |                   |                                         |                  |                  |                     |
| Power Level                              |                   | Modulated Average Output Power (in dBm) |                  |                  |                     |
|                                          |                   | 3GPP WCDMA Rel 99                       | 3GPP HSDPA Rel 5 | 3GPP HSUPA Rel 6 | 3GPP DC-HSDPA Rel 8 |
| Pmax                                     | Max Allowed Power | 24.0                                    | 23.0             | 23.0             | 23.0                |
|                                          | Nominal           | 23.0                                    | 22.0             | 22.0             | 22.0                |
| DSI = 0 (Body-Worn, Hotspot, or Phablet) | Max Allowed Power | 20.0                                    | 19.0             | 19.0             | 19.0                |
|                                          | Nominal           | 19.0                                    | 18.0             | 18.0             | 18.0                |
| DSI = 1 (Head)                           | Max Allowed Power | 24.0                                    | 23.0             | 23.0             | 23.0                |
|                                          | Nominal           | 23.0                                    | 22.0             | 22.0             | 22.0                |

| UMTS Band 2 (1900 MHz)                   |                   |                                         |                  |                  |                     |
|------------------------------------------|-------------------|-----------------------------------------|------------------|------------------|---------------------|
| Antenna A                                |                   |                                         |                  |                  |                     |
| Power Level                              |                   | Modulated Average Output Power (in dBm) |                  |                  |                     |
|                                          |                   | 3GPP WCDMA Rel 99                       | 3GPP HSDPA Rel 5 | 3GPP HSUPA Rel 6 | 3GPP DC-HSDPA Rel 8 |
| Pmax                                     | Max Allowed Power | 24.0                                    | 23.0             | 23.0             | 23.0                |
|                                          | Nominal           | 23.0                                    | 22.0             | 22.0             | 22.0                |
| DSI = 0 (Body-Worn, Hotspot, or Phablet) | Max Allowed Power | 19.0                                    | 18.0             | 18.0             | 18.0                |
|                                          | Nominal           | 18.0                                    | 17.0             | 17.0             | 17.0                |
| DSI = 1 (Head)                           | Max Allowed Power | 24.0                                    | 23.0             | 23.0             | 23.0                |
|                                          | Nominal           | 23.0                                    | 22.0             | 22.0             | 22.0                |

|                                             |                                |                                   |
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| Mode / Band     | Antenna |                   | Modulated Average Output Power (in dBm) |                                          |                |
|-----------------|---------|-------------------|-----------------------------------------|------------------------------------------|----------------|
|                 |         |                   | Pmax                                    | DSI = 0 (Body-Worn, Hotspot, or Phablet) | DSI = 1 (Head) |
| LTE Band 12/17  | A       | Max Allowed Power | 25.3                                    | 25.3                                     | 25.3           |
|                 |         | Nominal           | 24.3                                    | 24.3                                     | 24.3           |
| LTE Band 12/17  | E       | Max Allowed Power | 25.3                                    | 25.3                                     | 22.5           |
|                 |         | Nominal           | 24.3                                    | 24.3                                     | 21.5           |
| LTE Band 13     | A       | Max Allowed Power | 25.0                                    | 25.0                                     | 25.0           |
|                 |         | Nominal           | 24.0                                    | 24.0                                     | 24.0           |
| LTE Band 13     | E       | Max Allowed Power | 25.0                                    | 25.0                                     | 22.5           |
|                 |         | Nominal           | 24.0                                    | 24.0                                     | 21.5           |
| LTE Band 26/5   | A       | Max Allowed Power | 25.0                                    | 25.0                                     | 25.0           |
|                 |         | Nominal           | 24.0                                    | 24.0                                     | 24.0           |
| LTE Band 26/5   | E       | Max Allowed Power | 25.0                                    | 25.0                                     | 22.0           |
|                 |         | Nominal           | 24.0                                    | 24.0                                     | 21.0           |
| LTE Band 66/4   | A       | Max Allowed Power | 24.5                                    | 20.0                                     | 24.5           |
|                 |         | Nominal           | 23.5                                    | 19.0                                     | 23.5           |
| LTE Band 66/4   | F       | Max Allowed Power | 24.5                                    | 22.0                                     | 19.5           |
|                 |         | Nominal           | 23.5                                    | 21.0                                     | 18.5           |
| LTE Band 25/2   | A       | Max Allowed Power | 24.0                                    | 19.0                                     | 24.0           |
|                 |         | Nominal           | 23.0                                    | 18.0                                     | 23.0           |
| LTE Band 25/2   | F       | Max Allowed Power | 24.0                                    | 21.0                                     | 20.0           |
|                 |         | Nominal           | 23.0                                    | 20.0                                     | 19.0           |
| LTE Band 41 PC3 | B       | Max Allowed Power | 25.0                                    | 22.0                                     | 25.0           |
|                 |         | Nominal           | 24.0                                    | 21.0                                     | 24.0           |
| LTE Band 41 PC3 | F       | Max Allowed Power | 25.0                                    | 22.0                                     | 18.5           |
|                 |         | Nominal           | 24.0                                    | 21.0                                     | 17.5           |
| LTE Band 41 PC2 | B       | Max Allowed Power | 26.0                                    | 23.6                                     | 26.0           |
|                 |         | Nominal           | 25.0                                    | 22.6                                     | 25.0           |
| LTE Band 41 PC2 | F       | Max Allowed Power | 26.0                                    | 23.6                                     | 20.1           |
|                 |         | Nominal           | 25.0                                    | 22.6                                     | 19.1           |

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

|                                                    |                                       |                                          |
|----------------------------------------------------|---------------------------------------|------------------------------------------|
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| Mode / Band              | Antenna |                   | Modulated Average Output Power (in dBm) |                                          |                |
|--------------------------|---------|-------------------|-----------------------------------------|------------------------------------------|----------------|
|                          |         |                   | Pmax                                    | DSI = 0 (Body-Worn, Hotspot, or Phablet) | DSI = 1 (Head) |
| NR Band n5               | A       | Max Allowed Power | 25.0                                    | 25.0                                     | 25.0           |
|                          |         | Nominal           | 24.0                                    | 24.0                                     | 24.0           |
| NR Band n5               | E       | Max Allowed Power | 25.0                                    | 25.0                                     | 22.0           |
|                          |         | Nominal           | 24.0                                    | 24.0                                     | 21.0           |
| NR Band n66              | A       | Max Allowed Power | 24.0                                    | 20.0                                     | 24.0           |
|                          |         | Nominal           | 23.0                                    | 19.0                                     | 23.0           |
| NR Band n66              | F       | Max Allowed Power | 23.5                                    | 22.0                                     | 19.5           |
|                          |         | Nominal           | 22.5                                    | 21.0                                     | 18.5           |
| NR Band n25/n2           | A       | Max Allowed Power | 23.5                                    | 19.0                                     | 23.5           |
|                          |         | Nominal           | 22.5                                    | 18.0                                     | 22.5           |
| NR Band n25/n2           | F       | Max Allowed Power | 23.5                                    | 21.0                                     | 20.0           |
|                          |         | Nominal           | 22.5                                    | 20.0                                     | 19.0           |
| NR Band n41 PC3 (Path 1) | F       | Max Allowed Power | 25.0                                    | 19.5                                     | 17.5           |
|                          |         | Nominal           | 24.0                                    | 18.5                                     | 16.5           |
| NR Band n41 PC3 (Path 1) | B       | Max Allowed Power | 22.0                                    | 20.0                                     | 17.5           |
|                          |         | Nominal           | 21.0                                    | 19.0                                     | 16.5           |
| NR Band n41 PC3 (Path 1) | E       | Max Allowed Power | 21.0                                    | 17.0                                     | 14.5           |
|                          |         | Nominal           | 20.0                                    | 16.0                                     | 13.5           |
| NR Band n41 PC3 (Path 1) | D       | Max Allowed Power | 20.0                                    | 17.0                                     | 14.5           |
|                          |         | Nominal           | 19.0                                    | 16.0                                     | 13.5           |
| NR Band n41 PC3 (Path 2) | B       | Max Allowed Power | 25.0                                    | 21.0                                     | 22.0           |
|                          |         | Nominal           | 24.0                                    | 20.0                                     | 21.0           |
| NR Band n41 PC3 (Path 2) | F       | Max Allowed Power | 22.0                                    | 19.5                                     | 17.5           |
|                          |         | Nominal           | 21.0                                    | 18.5                                     | 16.5           |
| NR Band n41 PC3 (Path 2) | D       | Max Allowed Power | 23.0                                    | 19.0                                     | 20.0           |
|                          |         | Nominal           | 22.0                                    | 18.0                                     | 19.0           |
| NR Band n41 PC3 (Path 2) | E       | Max Allowed Power | 19.0                                    | 17.0                                     | 17.0           |
|                          |         | Nominal           | 18.0                                    | 16.0                                     | 16.0           |
| NR Band n77 PC2          | F       | Max Allowed Power | 26.0                                    | 19.5                                     | 15.5           |
|                          |         | Nominal           | 25.0                                    | 18.5                                     | 14.5           |
| NR Band n77 PC2          | C       | Max Allowed Power | 20.0                                    | 15.0                                     | 11.0           |
|                          |         | Nominal           | 19.0                                    | 14.0                                     | 10.0           |
| NR Band n77 PC2          | I       | Max Allowed Power | 25.0                                    | 19.5                                     | 15.5           |
|                          |         | Nominal           | 24.0                                    | 18.5                                     | 14.5           |
| NR Band n77 PC2          | D       | Max Allowed Power | 20.0                                    | 15.0                                     | 11.0           |
|                          |         | Nominal           | 19.0                                    | 14.0                                     | 10.0           |

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

|                                                    |                                       |                                          |
|----------------------------------------------------|---------------------------------------|------------------------------------------|
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- Pmax, DSI=0 (Body-worn, Hotspot or Phablet)

- $DSI=1$  (RCV)

### 2.4.3 5 GHz WLAN Output Power

- $P_{max}$

- DSI=0 (Body-worn, Hotspot or Phablet), DSI=1 (Head)

|                                             |                                |                                   |
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## 2.4.4 6 GHz WLAN Output Power

The below table is applicable is applicable in the following conditions:

- Pmax, DSI = 1 (Head)

| Mode                               |        | Band               | IEEE 802.11 Modulated/Frame Output Power (in dBm) |                    |             |                    |             |                    |             |                    |             |                    |             |                    |              |                              |             |                              |             |  |
|------------------------------------|--------|--------------------|---------------------------------------------------|--------------------|-------------|--------------------|-------------|--------------------|-------------|--------------------|-------------|--------------------|-------------|--------------------|--------------|------------------------------|-------------|------------------------------|-------------|--|
|                                    |        |                    | SISO                                              |                    |             |                    |             |                    | SISO        |                    |             |                    |             |                    | SISO in MIMO |                              |             |                              |             |  |
|                                    |        |                    | Antenna H                                         |                    |             |                    |             |                    | Antenna E   |                    |             |                    |             |                    | MIMO         |                              |             |                              |             |  |
|                                    |        | a                  |                                                   | ax (SU)            |             | be (SU)            |             | a                  |             | ax (SU)            |             | be (SU)            |             | a<br>(CDD + STBC)  |              | ax (SU)<br>(CDD + STBC, SDM) |             | be (SU)<br>(CDD + STBC, SDM) |             |  |
| Maximum / Nominal Power            |        | Max                | Nom.                                              | Max                | Nom.        | Max                | Nom.        | Max                | Nom.        | Max                | Nom.        | Max                | Nom.        | Max                | Nom.         | Max                          | Nom.        | Max                          | Nom.        |  |
| 6 GHz WiFi<br>(20MHz BW)<br>- LPI  | UNII-5 | 9.5<br>ch. 2: 8.0  | 8.5<br>7.0                                        | 10.0<br>ch. 2: 7.0 | 9.0<br>6.0  | 10.0<br>ch. 2: 7.0 | 9.0<br>6.0  | 9.5<br>ch. 2: 8.0  | 8.5<br>7.0  | 10.0<br>ch. 2: 7.0 | 9.0<br>6.0  | 10.0<br>ch. 2: 7.0 | 9.0<br>6.0  | 9.5<br>ch. 2: 8.0  | 8.5<br>7.0   | 10.0<br>ch. 2: 7.0           | 9.0<br>6.0  | 10.0<br>ch. 2: 7.0           | 9.0<br>6.0  |  |
|                                    | UNII-6 | 10.0               | 9.0                                               | 10.0               | 9.0         | 10.0               | 9.0         | 10.0               | 9.0         | 10.0               | 9.0         | 10.0               | 9.0         | 10.0               | 9.0          | 10.0                         | 9.0         | 10.0                         | 9.0         |  |
|                                    | UNII-7 | 10.0               | 9.0                                               | 10.0               | 9.0         | 10.0               | 9.0         | 10.0               | 9.0         | 10.0               | 9.0         | 10.0               | 9.0         | 10.0               | 9.0          | 10.0                         | 9.0         | 10.0                         | 9.0         |  |
|                                    | UNII-8 | 10.0               | 9.0                                               | 10.0               | 9.0         | 10.0               | 9.0         | 10.0               | 9.0         | 10.0               | 9.0         | 10.0               | 9.0         | 10.0               | 9.0          | 10.0                         | 9.0         | 10.0                         | 9.0         |  |
| 6 GHz WiFi<br>(40MHz BW)<br>- LPI  | UNII-5 |                    |                                                   | 13.0               | 12.0        | 13.0               | 12.0        |                    |             | 13.0               | 12.0        | 13.0               | 12.0        |                    |              | 13.0                         | 12.0        | 13.0                         | 12.0        |  |
|                                    | UNII-6 |                    |                                                   | 13.0               | 12.0        | 13.0               | 12.0        |                    |             | 13.0               | 12.0        | 13.0               | 12.0        |                    |              |                              |             |                              |             |  |
|                                    | UNII-7 |                    |                                                   | 13.0               | 12.0        | 13.0               | 12.0        |                    |             | 13.0               | 12.0        | 13.0               | 12.0        |                    |              |                              |             |                              |             |  |
|                                    | UNII-8 |                    |                                                   | 13.0               | 12.0        | 13.0               | 12.0        |                    |             | 13.0               | 12.0        | 13.0               | 12.0        |                    |              |                              |             |                              |             |  |
| 6 GHz WiFi<br>(80MHz BW)<br>- LPI  | UNII-5 |                    |                                                   | 16.0               | 15.0        | 16.0               | 15.0        |                    |             | 16.0               | 15.0        | 16.0               | 15.0        |                    |              | 16.0                         | 15.0        | 16.0                         | 15.0        |  |
|                                    | UNII-6 |                    |                                                   | 16.0               | 15.0        | 16.0               | 15.0        |                    |             | 16.0               | 15.0        | 16.0               | 15.0        |                    |              |                              |             |                              |             |  |
|                                    | UNII-7 |                    |                                                   | 16.0               | 15.0        | 16.0               | 15.0        |                    |             | 16.0               | 15.0        | 16.0               | 15.0        |                    |              |                              |             |                              |             |  |
|                                    | UNII-8 |                    |                                                   | 15.5               | 14.5        | 15.5               | 14.5        |                    |             | 15.5               | 14.5        | 15.5               | 14.5        |                    |              |                              |             |                              |             |  |
| 6 GHz WiFi<br>(160MHz BW)<br>- LPI | UNII-5 |                    |                                                   | 15.0               | 14.0        | 15.0               | 14.0        |                    |             | 15.0               | 14.0        | 15.0               | 14.0        |                    |              | 15.0                         | 14.0        | 15.0                         | 14.0        |  |
|                                    | UNII-6 |                    |                                                   | 15.0               | 14.0        | 15.0               | 14.0        |                    |             | 15.0               | 14.0        | 15.0               | 14.0        |                    |              |                              |             |                              |             |  |
|                                    | UNII-7 |                    |                                                   | 14.5               | 13.5        | 14.5               | 13.5        |                    |             | 14.5               | 13.5        | 14.5               | 13.5        |                    |              |                              |             |                              |             |  |
|                                    | UNII-8 |                    |                                                   | 14.5               | 13.5        | 14.5               | 13.5        |                    |             | 14.5               | 13.5        | 14.5               | 13.5        |                    |              |                              |             |                              |             |  |
| 6 GHz WiFi<br>(320MHz BW)<br>- LPI | UNII-5 |                    |                                                   |                    |             | 15.0               | 14.0        |                    |             |                    |             | 15.0               | 14.0        |                    |              |                              |             | 15.0                         | 14.0        |  |
|                                    | UNII-6 |                    |                                                   |                    |             | 15.0               | 14.0        |                    |             |                    |             | 15.0               | 14.0        |                    |              |                              |             | 15.0                         | 14.0        |  |
|                                    | UNII-7 |                    |                                                   |                    |             | 14.5               | 13.5        |                    |             |                    |             | 14.5               | 13.5        |                    |              |                              |             | 14.5                         | 13.5        |  |
|                                    | UNII-8 |                    |                                                   |                    |             | 14.5               | 13.5        |                    |             |                    |             | 14.5               | 13.5        |                    |              |                              |             | 14.5                         | 13.5        |  |
| Mode                               |        | Band               | IEEE 802.11 Modulated/Frame Output Power (in dBm) |                    |             |                    |             |                    |             |                    |             |                    |             |                    |              |                              |             |                              |             |  |
|                                    |        |                    | SISO                                              |                    |             |                    |             |                    | SISO        |                    |             |                    |             |                    | SISO in MIMO |                              |             |                              |             |  |
|                                    |        |                    | Antenna H                                         |                    |             |                    |             |                    | Antenna E   |                    |             |                    |             |                    | MIMO         |                              |             |                              |             |  |
|                                    |        | a                  |                                                   | ax (SU)            |             | be (SU)            |             | a                  |             | ax (SU)            |             | be (SU)            |             | a<br>(CDD + STBC)  |              | ax (SU)<br>(CDD + STBC, SDM) |             | be (SU)<br>(CDD + STBC, SDM) |             |  |
| Maximum / Nominal Power            |        | Max                | Nom.                                              | Max                | Nom.        | Max                | Nom.        | Max                | Nom.        | Max                | Nom.        | Max                | Nom.        | Max                | Nom.         | Max                          | Nom.        | Max                          | Nom.        |  |
| 6 GHz WiFi<br>(20MHz BW)<br>- SP   | UNII-5 | 17.0<br>ch. 2: 8.0 | 16.0<br>7.0                                       | 17.0<br>ch. 2: 7.0 | 16.0<br>6.0 | 17.0<br>ch. 2: 7.0 | 16.0<br>6.0 | 17.0<br>ch. 2: 8.0 | 16.0<br>7.0 | 17.0<br>ch. 2: 7.0 | 16.0<br>6.0 | 17.0<br>ch. 2: 7.0 | 16.0<br>6.0 | 17.0<br>ch. 2: 8.0 | 16.0<br>7.0  | 17.0<br>ch. 2: 7.0           | 16.0<br>6.0 | 17.0<br>ch. 2: 7.0           | 16.0<br>6.0 |  |
|                                    | UNII-7 | 17.0               | 16.0                                              | 17.0               | 16.0        | 17.0               | 16.0        | 17.0               | 16.0        | 17.0               | 16.0        | 17.0               | 16.0        | 17.0               | 16.0         | 17.0                         | 16.0        | 17.0                         | 16.0        |  |
| 6 GHz WiFi<br>(40MHz BW)<br>- SP   | UNII-5 |                    |                                                   | 17.0               | 16.0        | 17.0               | 16.0        |                    |             | 17.0               | 16.0        | 17.0               | 16.0        |                    |              | 17.0                         | 16.0        | 17.0                         | 16.0        |  |
|                                    | UNII-7 |                    |                                                   | 17.0               | 16.0        | 17.0               | 16.0        |                    |             | 17.0               | 16.0        | 17.0               | 16.0        |                    |              |                              |             |                              |             |  |
| 6 GHz WiFi<br>(80MHz BW)<br>- SP   | UNII-5 |                    |                                                   | 16.0               | 15.0        | 16.0               | 15.0        |                    |             | 16.0               | 15.0        | 16.0               | 15.0        |                    |              | 16.0                         | 15.0        | 16.0                         | 15.0        |  |
|                                    | UNII-7 |                    |                                                   | 16.0               | 15.0        | 16.0               | 15.0        |                    |             | 16.0               | 15.0        | 16.0               | 15.0        |                    |              |                              |             |                              |             |  |
| 6 GHz WiFi<br>(160MHz BW)<br>- SP  | UNII-5 |                    |                                                   | 15.0               | 14.0        | 15.0               | 14.0        |                    |             | 15.0               | 14.0        | 15.0               | 14.0        |                    |              | 15.0                         | 14.0        | 15.0                         | 14.0        |  |
|                                    | UNII-7 |                    |                                                   | 14.5               | 13.5        | 14.5               | 13.5        |                    |             | 14.5               | 13.5        | 14.5               | 13.5        |                    |              |                              |             |                              |             |  |
| 6 GHz WiFi<br>(320MHz BW)<br>- SP  | UNII-5 |                    |                                                   |                    |             | 15.0               | 14.0        |                    |             |                    |             | 15.0               | 14.0        |                    |              |                              |             | 15.0                         | 14.0        |  |
|                                    | UNII-7 |                    |                                                   |                    |             | 14.5               | 13.5        |                    |             |                    |             | 14.5               | 13.5        |                    |              |                              |             | 14.5                         | 13.5        |  |
| Mode                               |        | Band               | IEEE 802.11 Modulated/Frame Output Power (in dBm) |                    |             |                    |             |                    |             |                    |             |                    |             |                    |              |                              |             |                              |             |  |
|                                    |        |                    | SISO                                              |                    |             |                    |             |                    | SISO        |                    |             |                    |             |                    | SISO in MIMO |                              |             |                              |             |  |
|                                    |        |                    | Antenna H                                         |                    |             |                    |             |                    | Antenna E   |                    |             |                    |             |                    | MIMO         |                              |             |                              |             |  |
|                                    |        | a                  |                                                   | ax (SU)            |             | be (SU)            |             | a                  |             | ax (SU)            |             | be (SU)            |             | a<br>(CDD + STBC)  |              | ax (SU)<br>(CDD + STBC, SDM) |             | be (SU)<br>(CDD + STBC, SDM) |             |  |
| Maximum / Nominal Power            |        | Max                | Nom.                                              | Max                | Nom.        | Max                | Nom.        | Max                | Nom.        | Max                | Nom.        | Max                | Nom.        | Max                | Nom.         | Max                          | Nom.        | Max                          | Nom.        |  |
| 6 GHz WiFi<br>(20MHz BW)<br>- VLP  | UNII-5 | 5.5                | 4.5                                               | 6.0                | 5.0         | 6.0                | 5.0         | 5.5                | 4.5         | 6.0                | 5.0         | 6.0                | 5.0         | 5.5                | 4.5          | 6.0                          | 5.0         | 6.0                          | 5.0         |  |
|                                    | UNII-7 | 6.0                | 5.0                                               | 6.0                | 5.0         | 6.0                | 5.0         | 6.0                | 5.0         | 6.0                | 5.0         | 6.0                | 5.0         | 6.0                | 5.0          | 6.0                          | 5.0         | 6.0                          | 5.0         |  |
| 6 GHz WiFi<br>(40MHz BW)<br>- VLP  | UNII-5 |                    |                                                   | 9.0                | 8.0         | 9.0                | 8.0         |                    |             | 9.0                | 8.0         | 9.0                | 8.0         |                    |              | 9.0                          | 8.0         | 9.0                          | 8.0         |  |
|                                    | UNII-7 |                    |                                                   | 9.0                | 8.0         | 9.0                | 8.0         |                    |             | 9.0                | 8.0         | 9.0                | 8.0         |                    |              |                              |             |                              |             |  |
| 6 GHz WiFi<br>(80MHz BW)<br>- VLP  | UNII-5 |                    |                                                   | 12.0               | 11.0        | 12.0               | 11.0        |                    |             | 12.0               | 11.0        | 12.0               | 11.0        |                    |              | 12.0                         | 11.0        | 12.0                         | 11.0        |  |
|                                    | UNII-7 |                    |                                                   | 12.0               | 11.0        | 12.0               | 11.0        |                    |             | 12.0               | 11.0        | 12.0               | 11.0        |                    |              |                              |             |                              |             |  |
| 6 GHz WiFi<br>(160MHz BW)<br>- VLP | UNII-5 |                    |                                                   | 12.0               | 11.0        | 12.0               | 11.0        |                    |             | 12.0               | 11.0        | 12.0               | 11.0        |                    |              | 12.0                         | 11.0        | 12.0                         | 11.0        |  |
|                                    | UNII-7 |                    |                                                   | 12.0               | 11.0        | 12.0               | 11.0        |                    |             | 12.0               | 11.0        | 12.0               | 11.0        |                    |              |                              |             |                              |             |  |
| 6 GHz WiFi<br>(320MHz BW)<br>- VLP | UNII-5 |                    |                                                   |                    |             | 12.0               | 11.0        |                    |             |                    |             | 12.0               | 11.0        |                    |              |                              |             | 12.0                         | 11.0        |  |
|                                    | UNII-7 |                    |                                                   |                    |             | 12.0               | 11.0        |                    |             |                    |             | 12.0               | 11.0        |                    |              |                              |             |                              |             |  |

|                                             |                                |                                   |
|---------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: A3LSMS938B                          | RF EXPOSURE PART 1 TEST REPORT | Approved by:<br>Technical Manager |
| Document S/N:<br>1M2408260069-01.A3L (Rev1) | DUT Type:<br>Portable Handset  | Page 13 of 131                    |



The below table is applicable in the following conditions:

- DSI=0 (Body-worn or Phablet)

| Mode                         | Band   | IEEE 802.11 Modulated/Frame Output Power (in dBm) |      |         |       |         |      |           |      |         |      |         |      |                   |       |                              |      |                              |      |
|------------------------------|--------|---------------------------------------------------|------|---------|-------|---------|------|-----------|------|---------|------|---------|------|-------------------|-------|------------------------------|------|------------------------------|------|
|                              |        | SISO                                              |      |         |       |         |      | SISO      |      |         |      |         |      | SISO in MIMO      |       |                              |      |                              |      |
|                              |        | Antenna H                                         |      |         |       |         |      | Antenna E |      |         |      |         |      | MIMO              |       |                              |      |                              |      |
|                              |        | a                                                 |      | ax (SU) |       | be (SU) |      | a         |      | ax (SU) |      | be (SU) |      | a<br>(CDD + STBC) |       | ax (SU)<br>(CDD + STBC, SDM) |      | be (SU)<br>(CDD + STBC, SDM) |      |
| Maximum / Nominal Power      |        | Max                                               | Nom. | Max     | Nom.  | Max     | Nom. | Max       | Nom. | Max     | Nom. | Max     | Nom. | Max               | Nom.  | Max                          | Nom. | Max                          | Nom. |
| 6 GHz WiFi (20MHz BW) - LPI  | UNII-5 | 9.0                                               | 8.0  | 9.0     | 8.0   | 9.0     | 8.0  | 9.0       | 8.0  | 9.0     | 8.0  | 9.0     | 8.0  | 9.0               | 8.0   | 9.0                          | 8.0  | 9.0                          | 8.0  |
|                              |        | ch. 2                                             | 8.0  | 7.0     | ch. 2 | 7.0     | 6.0  | ch. 2     | 8.0  | 7.0     | 6.0  | ch. 2   | 7.0  | 6.0               | ch. 2 | 7.0                          | 6.0  | ch. 2                        | 7.0  |
|                              | UNII-6 | 9.0                                               | 8.0  | 9.0     | 8.0   | 9.0     | 8.0  | 9.0       | 8.0  | 9.0     | 8.0  | 9.0     | 8.0  | 9.0               | 8.0   | 9.0                          | 8.0  | 9.0                          | 8.0  |
|                              | UNII-7 | 9.0                                               | 8.0  | 9.0     | 8.0   | 9.0     | 8.0  | 9.0       | 8.0  | 9.0     | 8.0  | 9.0     | 8.0  | 9.0               | 8.0   | 9.0                          | 8.0  | 9.0                          | 8.0  |
| 6 GHz WiFi (40MHz BW) - LPI  | UNII-8 | 9.0                                               | 8.0  | 9.0     | 8.0   | 9.0     | 8.0  | 9.0       | 8.0  | 9.0     | 8.0  | 9.0     | 8.0  | 9.0               | 8.0   | 9.0                          | 8.0  | 9.0                          | 8.0  |
|                              | UNII-5 |                                                   |      | 9.0     | 8.0   | 9.0     | 8.0  |           |      | 9.0     | 8.0  | 9.0     | 8.0  |                   |       | 9.0                          | 8.0  | 9.0                          | 8.0  |
|                              | UNII-6 |                                                   |      | 9.0     | 8.0   | 9.0     | 8.0  |           |      | 9.0     | 8.0  | 9.0     | 8.0  |                   |       | 9.0                          | 8.0  | 9.0                          | 8.0  |
|                              | UNII-7 |                                                   |      | 9.0     | 8.0   | 9.0     | 8.0  |           |      | 9.0     | 8.0  | 9.0     | 8.0  |                   |       | 9.0                          | 8.0  | 9.0                          | 8.0  |
| 6 GHz WiFi (80MHz BW) - LPI  | UNII-8 |                                                   |      | 9.0     | 8.0   | 9.0     | 8.0  |           |      | 9.0     | 8.0  | 9.0     | 8.0  |                   |       | 9.0                          | 8.0  | 9.0                          | 8.0  |
|                              | UNII-5 |                                                   |      | 9.0     | 8.0   | 9.0     | 8.0  |           |      | 9.0     | 8.0  | 9.0     | 8.0  |                   |       | 9.0                          | 8.0  | 9.0                          | 8.0  |
|                              | UNII-6 |                                                   |      | 9.0     | 8.0   | 9.0     | 8.0  |           |      | 9.0     | 8.0  | 9.0     | 8.0  |                   |       | 9.0                          | 8.0  | 9.0                          | 8.0  |
|                              | UNII-7 |                                                   |      | 9.0     | 8.0   | 9.0     | 8.0  |           |      | 9.0     | 8.0  | 9.0     | 8.0  |                   |       | 9.0                          | 8.0  | 9.0                          | 8.0  |
| 6 GHz WiFi (160MHz BW) - LPI | UNII-8 |                                                   |      | 9.0     | 8.0   | 9.0     | 8.0  |           |      | 9.0     | 8.0  | 9.0     | 8.0  |                   |       | 9.0                          | 8.0  | 9.0                          | 8.0  |
|                              | UNII-5 |                                                   |      | 9.0     | 8.0   | 9.0     | 8.0  |           |      | 9.0     | 8.0  | 9.0     | 8.0  |                   |       | 9.0                          | 8.0  | 9.0                          | 8.0  |
|                              | UNII-6 |                                                   |      | 9.0     | 8.0   | 9.0     | 8.0  |           |      | 9.0     | 8.0  | 9.0     | 8.0  |                   |       | 9.0                          | 8.0  | 9.0                          | 8.0  |
|                              | UNII-7 |                                                   |      | 9.0     | 8.0   | 9.0     | 8.0  |           |      | 9.0     | 8.0  | 9.0     | 8.0  |                   |       | 9.0                          | 8.0  | 9.0                          | 8.0  |
| 6 GHz WiFi (320MHz BW) - LPI | UNII-8 |                                                   |      | 9.0     | 8.0   | 9.0     | 8.0  |           |      | 9.0     | 8.0  | 9.0     | 8.0  |                   |       | 9.0                          | 8.0  | 9.0                          | 8.0  |
|                              | UNII-5 |                                                   |      |         |       | 9.0     | 8.0  |           |      |         |      | 9.0     | 8.0  |                   |       |                              |      | 9.0                          | 8.0  |
|                              | UNII-6 |                                                   |      |         |       | 9.0     | 8.0  |           |      |         |      | 9.0     | 8.0  |                   |       |                              |      | 9.0                          | 8.0  |
|                              | UNII-7 |                                                   |      |         |       | 9.0     | 8.0  |           |      |         |      | 9.0     | 8.0  |                   |       |                              |      | 9.0                          | 8.0  |
| 6 GHz WiFi (320MHz BW) - SP  | UNII-8 |                                                   |      |         |       | 9.0     | 8.0  |           |      |         |      | 9.0     | 8.0  |                   |       |                              |      | 9.0                          | 8.0  |
|                              | UNII-5 |                                                   |      |         |       |         |      |           |      |         |      |         |      |                   |       |                              |      |                              |      |
|                              | UNII-6 |                                                   |      |         |       |         |      |           |      |         |      |         |      |                   |       |                              |      |                              |      |
|                              | UNII-7 |                                                   |      |         |       |         |      |           |      |         |      |         |      |                   |       |                              |      |                              |      |
| 6 GHz WiFi (20MHz BW) - SP   | UNII-5 | 9.0                                               | 8.0  | 9.0     | 8.0   | 9.0     | 8.0  | 9.0       | 8.0  | 9.0     | 8.0  | 9.0     | 8.0  | 9.0               | 8.0   | 9.0                          | 8.0  | 9.0                          | 8.0  |
|                              |        | ch. 2                                             | 8.0  | 7.0     | ch. 2 | 7.0     | 6.0  | ch. 2     | 8.0  | 7.0     | 6.0  | ch. 2   | 7.0  | 6.0               | ch. 2 | 7.0                          | 6.0  | ch. 2                        | 7.0  |
|                              | UNII-7 | 9.0                                               | 8.0  | 9.0     | 8.0   | 9.0     | 8.0  | 9.0       | 8.0  | 9.0     | 8.0  | 9.0     | 8.0  | 9.0               | 8.0   | 9.0                          | 8.0  | 9.0                          | 8.0  |
|                              | UNII-8 |                                                   |      | 9.0     | 8.0   | 9.0     | 8.0  |           |      | 9.0     | 8.0  | 9.0     | 8.0  |                   |       | 9.0                          | 8.0  | 9.0                          | 8.0  |
| 6 GHz WiFi (40MHz BW) - SP   | UNII-5 |                                                   |      | 9.0     | 8.0   | 9.0     | 8.0  |           |      | 9.0     | 8.0  | 9.0     | 8.0  |                   |       | 9.0                          | 8.0  | 9.0                          | 8.0  |
|                              | UNII-7 |                                                   |      | 9.0     | 8.0   | 9.0     | 8.0  |           |      | 9.0     | 8.0  | 9.0     | 8.0  |                   |       | 9.0                          | 8.0  | 9.0                          | 8.0  |
|                              | UNII-8 |                                                   |      | 9.0     | 8.0   | 9.0     | 8.0  |           |      | 9.0     | 8.0  | 9.0     | 8.0  |                   |       | 9.0                          | 8.0  | 9.0                          | 8.0  |
|                              | UNII-5 |                                                   |      | 9.0     | 8.0   | 9.0     | 8.0  |           |      | 9.0     | 8.0  | 9.0     | 8.0  |                   |       | 9.0                          | 8.0  | 9.0                          | 8.0  |
| 6 GHz WiFi (80MHz BW) - SP   | UNII-7 |                                                   |      | 9.0     | 8.0   | 9.0     | 8.0  |           |      | 9.0     | 8.0  | 9.0     | 8.0  |                   |       | 9.0                          | 8.0  | 9.0                          | 8.0  |
|                              | UNII-8 |                                                   |      | 9.0     | 8.0   | 9.0     | 8.0  |           |      | 9.0     | 8.0  | 9.0     | 8.0  |                   |       | 9.0                          | 8.0  | 9.0                          | 8.0  |
|                              | UNII-5 |                                                   |      | 9.0     | 8.0   | 9.0     | 8.0  |           |      | 9.0     | 8.0  | 9.0     | 8.0  |                   |       | 9.0                          | 8.0  | 9.0                          | 8.0  |
|                              | UNII-7 |                                                   |      | 9.0     | 8.0   | 9.0     | 8.0  |           |      | 9.0     | 8.0  | 9.0     | 8.0  |                   |       | 9.0                          | 8.0  | 9.0                          | 8.0  |
| 6 GHz WiFi (160MHz BW) - SP  | UNII-8 |                                                   |      | 9.0     | 8.0   | 9.0     | 8.0  |           |      | 9.0     | 8.0  | 9.0     | 8.0  |                   |       | 9.0                          | 8.0  | 9.0                          | 8.0  |
|                              | UNII-5 |                                                   |      | 9.0     | 8.0   | 9.0     | 8.0  |           |      | 9.0     | 8.0  | 9.0     | 8.0  |                   |       | 9.0                          | 8.0  | 9.0                          | 8.0  |
|                              | UNII-6 |                                                   |      | 9.0     | 8.0   | 9.0     | 8.0  |           |      | 9.0     | 8.0  | 9.0     | 8.0  |                   |       | 9.0                          | 8.0  | 9.0                          | 8.0  |
|                              | UNII-7 |                                                   |      | 9.0     | 8.0   | 9.0     | 8.0  |           |      | 9.0     | 8.0  | 9.0     | 8.0  |                   |       | 9.0                          | 8.0  | 9.0                          | 8.0  |
| 6 GHz WiFi (320MHz BW) - SP  | UNII-8 |                                                   |      | 9.0     | 8.0   | 9.0     | 8.0  |           |      | 9.0     | 8.0  | 9.0     | 8.0  |                   |       | 9.0                          | 8.0  | 9.0                          | 8.0  |
|                              | UNII-5 |                                                   |      |         |       | 9.0     | 8.0  |           |      |         |      | 9.0     | 8.0  |                   |       |                              |      | 9.0                          | 8.0  |
|                              | UNII-6 |                                                   |      |         |       | 9.0     | 8.0  |           |      |         |      | 9.0     | 8.0  |                   |       |                              |      | 9.0                          | 8.0  |
|                              | UNII-7 |                                                   |      |         |       | 9.0     | 8.0  |           |      |         |      | 9.0     | 8.0  |                   |       |                              |      | 9.0                          | 8.0  |

|                                             |                                |                                   |
|---------------------------------------------|--------------------------------|-----------------------------------|
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## 2.4.5 2.4 GHz Bluetooth Output Power

The below table is applicable in the following conditions:

- Pmax, DSI=0 (Body-worn, Hotspot or Phablet), DSI=1 (Head)

| Mode                    | Data Rate | Modulated Output Power (in dBm) |      |           |      |           |      |           |      |      |      |
|-------------------------|-----------|---------------------------------|------|-----------|------|-----------|------|-----------|------|------|------|
|                         |           | Single Antenna                  |      |           |      | Dual Mode |      |           |      |      |      |
|                         |           | Antenna H                       |      | Antenna J |      | Antenna H |      | Antenna J |      | MIMO |      |
| Maximum / Nominal Power |           | Max                             | Nom. | Max       | Nom. | Max       | Nom. | Max       | Nom. | Max  | Nom. |
| Bluetooth               | 1Mbps     | 19.5                            | 18.5 | 19.5      | 18.5 | 15.0      | 14.0 | 14.0      | 13.0 | 17.5 | 16.5 |
| Bluetooth EDR           | 2Mbps     | 16.5                            | 15.5 | 16.5      | 15.5 | 12.5      | 11.5 | 12.5      | 11.5 | 15.5 | 14.5 |
| Bluetooth EDR           | 3Mbps     | 16.0                            | 15.0 | 16.0      | 15.0 | 12.5      | 11.5 | 12.5      | 11.5 | 15.5 | 14.5 |
| Bluetooth LE            | 1Mbps     | 20.5                            | 19.5 | 20.0      | 19.0 | 13.0      | 12.0 | 12.0      | 11.0 | 15.5 | 14.5 |
| Bluetooth LE            | 2Mbps     | 20.5                            | 19.5 | 20.0      | 19.0 | 13.0      | 12.0 | 12.0      | 11.0 | 15.5 | 14.5 |
| Bluetooth LE            | 125kbps   | 13.0                            | 12.0 | 11.0      | 10.0 | N/A       | N/A  | N/A       | N/A  | N/A  | N/A  |
| Bluetooth LE            | 500kbps   | 13.0                            | 12.0 | 11.0      | 10.0 | N/A       | N/A  | N/A       | N/A  | N/A  | N/A  |

|                                                    |                                       |                                          |
|----------------------------------------------------|---------------------------------------|------------------------------------------|
| <b>FCC ID: A3LSMS938B</b>                          | <b>RF EXPOSURE PART 1 TEST REPORT</b> | <b>Approved by:</b><br>Technical Manager |
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## 2.5 DUT Antenna Locations

The overall dimensions of this device are  $> 9 \times 5$  cm. A diagram showing the location of the device antennas can be found in DUT Antenna Diagram & SAR Test Setup Photographs Appendix. Since the display diagonal dimension of this device is  $> 150$  mm and  $< 200$  mm, it is considered a “phablet.” Exact antenna dimensions and separation distances are shown in the Technical Descriptions in the FCC filing.

**Table 2-1**  
**Device Edges/Sides for SAR Testing**

| Antenna | Back | Front | Top | Bottom | Right | Left |
|---------|------|-------|-----|--------|-------|------|
| A       | Yes  | Yes   | No  | Yes    | Yes   | Yes  |
| B       | Yes  | Yes   | No  | Yes    | Yes   | No   |
| C       | Yes  | Yes   | No  | Yes    | Yes   | No   |
| D       | Yes  | Yes   | No  | Yes    | No    | Yes  |
| E       | Yes  | Yes   | Yes | No     | Yes   | No   |
| F       | Yes  | Yes   | Yes | No     | No    | Yes  |
| H       | Yes  | Yes   | Yes | No     | No    | Yes  |
| I       | Yes  | Yes   | No  | No     | No    | Yes  |
| J       | Yes  | Yes   | Yes | No     | Yes   | No   |
| MIMO    | Yes  | Yes   | Yes | No     | Yes   | Yes  |

Note: Particular DUT edges were not required to be evaluated for wireless router SAR or phablet SAR if the edges were greater than 2.5 cm from the transmitting antenna according to FCC KDB Publication 941225 D06v02r01 Section III and FCC KDB Publication 648474 D01v06r03. 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, U-NII-4, and WIFI6E operations are disabled.

## 2.6 Near Field Communications (NFC) Antenna

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

|                                             |                                |                                   |
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## 2.7 Simultaneous Transmission Capabilities

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

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

**Table 2-2  
Simultaneous Transmission Scenarios**

| No. | Capable Transmit Configuration                                               | Head | Body Worn Accessory | Wireless Router | Phablet | Notes                                             |
|-----|------------------------------------------------------------------------------|------|---------------------|-----------------|---------|---------------------------------------------------|
| 1   | GSM voice + 2.4 GHz Bluetooth SISO                                           | Yes* | Yes                 | N/A             | Yes     | * Bluetooth Tethering is considered only on Ant H |
| 2   | GSM voice + 2.4 GHz Bluetooth Dual                                           | Yes  | Yes                 | N/A             | Yes     |                                                   |
| 3   | GSM voice + 2.4 GHz WLAN MIMO                                                | Yes  | Yes                 | N/A             | Yes     |                                                   |
| 4   | GSM voice + 2.4 GHz WLAN SISO                                                | Yes  | Yes                 | N/A             | Yes     |                                                   |
| 5   | GSM voice + 5 GHz WLAN MIMO                                                  | Yes  | Yes                 | N/A             | Yes     |                                                   |
| 6   | GSM voice + 5 GHz WLAN SISO                                                  | Yes  | Yes                 | N/A             | Yes     |                                                   |
| 7   | GSM voice + 6 GHz WLAN MIMO                                                  | Yes  | Yes                 | N/A             | Yes     |                                                   |
| 8   | GSM voice + 6 GHz WLAN SISO                                                  | Yes  | Yes                 | N/A             | Yes     |                                                   |
| 9   | GSM voice + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO                              | Yes  | Yes                 | N/A             | Yes     |                                                   |
| 10  | GSM voice + 2.4 GHz WLAN MIMO + 5 GHz WLAN SISO                              | Yes  | Yes                 | N/A             | Yes     |                                                   |
| 11  | GSM voice + 2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO                              | Yes  | Yes                 | N/A             | Yes     |                                                   |
| 12  | GSM voice + 2.4 GHz WLAN MIMO + 6 GHz WLAN SISO                              | Yes  | Yes                 | N/A             | Yes     |                                                   |
| 13  | GSM voice + 2.4 GHz WLAN SISO + 5 GHz WLAN MIMO                              | Yes  | Yes                 | N/A             | Yes     |                                                   |
| 14  | GSM voice + 2.4 GHz WLAN SISO + 5 GHz WLAN SISO                              | Yes  | Yes                 | N/A             | Yes     |                                                   |
| 15  | GSM voice + 2.4 GHz WLAN SISO + 6 GHz WLAN MIMO                              | Yes  | Yes                 | N/A             | Yes     |                                                   |
| 16  | GSM voice + 2.4 GHz WLAN SISO + 6 GHz WLAN SISO                              | Yes  | Yes                 | N/A             | Yes     |                                                   |
| 17  | GSM voice + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant J                     | Yes* | Yes                 | N/A             | Yes     | * Bluetooth Tethering is considered only on Ant H |
| 18  | GSM voice + 2.4 GHz Bluetooth SISO + 5 GHz WLAN MIMO                         | Yes* | Yes                 | N/A             | Yes     | * Bluetooth Tethering is considered only on Ant H |
| 19  | GSM voice + 2.4 GHz Bluetooth SISO + 5 GHz WLAN SISO                         | Yes* | Yes                 | N/A             | Yes     | * Bluetooth Tethering is considered only on Ant H |
| 20  | GSM voice + 2.4 GHz Bluetooth SISO + 6 GHz WLAN MIMO                         | Yes* | Yes                 | N/A             | Yes     | * Bluetooth Tethering is considered only on Ant H |
| 21  | GSM voice + 2.4 GHz Bluetooth SISO + 6 GHz WLAN SISO                         | Yes* | Yes                 | N/A             | Yes     | * Bluetooth Tethering is considered only on Ant H |
| 22  | GSM voice + 2.4 GHz Bluetooth Dual + 5 GHz WLAN MIMO                         | Yes  | Yes                 | N/A             | Yes     |                                                   |
| 23  | GSM voice + 2.4 GHz Bluetooth Dual + 5 GHz WLAN SISO                         | Yes  | Yes                 | N/A             | Yes     |                                                   |
| 24  | GSM voice + 2.4 GHz Bluetooth Dual + 6 GHz WLAN MIMO                         | Yes  | Yes                 | N/A             | Yes     |                                                   |
| 25  | GSM voice + 2.4 GHz Bluetooth Dual + 6 GHz WLAN SISO                         | Yes  | Yes                 | N/A             | Yes     |                                                   |
| 26  | GSM voice + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant J + 5 GHz WLAN MIMO   | Yes* | Yes                 | N/A             | Yes     | * Bluetooth Tethering is considered only on Ant H |
| 27  | GSM voice + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant J + 5 GHz WLAN SISO   | Yes* | Yes                 | N/A             | Yes     | * Bluetooth Tethering is considered only on Ant H |
| 28  | GSM voice + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant J + 6 GHz WLAN MIMO   | Yes* | Yes                 | N/A             | Yes     | * Bluetooth Tethering is considered only on Ant H |
| 29  | GSM voice + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant J + 6 GHz WLAN SISO   | Yes* | Yes                 | N/A             | Yes     | * Bluetooth Tethering is considered only on Ant H |
| 30  | UMTS/LTE/NR + 2.4 GHz Bluetooth SISO                                         | Yes* | Yes                 | N/A             | Yes     | * Bluetooth Tethering is considered only on Ant H |
| 31  | UMTS/LTE/NR + 2.4 GHz Bluetooth Dual                                         | Yes  | Yes                 | N/A             | Yes     |                                                   |
| 32  | UMTS/LTE/NR + 2.4 GHz WLAN MIMO                                              | Yes  | Yes                 | Yes             | Yes     |                                                   |
| 33  | UMTS/LTE/NR + 2.4 GHz WLAN SISO                                              | Yes  | Yes                 | Yes             | Yes     |                                                   |
| 34  | UMTS/LTE/NR + 5 GHz WLAN MIMO                                                | Yes  | Yes                 | Yes             | Yes     |                                                   |
| 35  | UMTS/LTE/NR + 5 GHz WLAN SISO                                                | Yes  | Yes                 | Yes             | Yes     |                                                   |
| 36  | UMTS/LTE/NR + 6 GHz WLAN MIMO                                                | Yes  | Yes                 | N/A             | Yes     |                                                   |
| 37  | UMTS/LTE/NR + 6 GHz WLAN SISO                                                | Yes  | Yes                 | N/A             | Yes     |                                                   |
| 38  | UMTS/LTE/NR + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO                            | Yes  | Yes                 | Yes             | Yes     |                                                   |
| 39  | UMTS/LTE/NR + 2.4 GHz WLAN MIMO + 5 GHz WLAN SISO                            | Yes  | Yes                 | Yes             | Yes     |                                                   |
| 40  | UMTS/LTE/NR + 2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO                            | Yes  | Yes                 | N/A             | Yes     |                                                   |
| 41  | UMTS/LTE/NR + 2.4 GHz WLAN MIMO + 6 GHz WLAN SISO                            | Yes  | Yes                 | N/A             | Yes     |                                                   |
| 42  | UMTS/LTE/NR + 2.4 GHz WLAN SISO + 5 GHz WLAN MIMO                            | Yes  | Yes                 | Yes             | Yes     |                                                   |
| 43  | UMTS/LTE/NR + 2.4 GHz WLAN SISO + 5 GHz WLAN SISO                            | Yes  | Yes                 | Yes             | Yes     |                                                   |
| 44  | UMTS/LTE/NR + 2.4 GHz WLAN SISO + 6 GHz WLAN MIMO                            | Yes  | Yes                 | N/A             | Yes     |                                                   |
| 45  | UMTS/LTE/NR + 2.4 GHz WLAN SISO + 6 GHz WLAN SISO                            | Yes  | Yes                 | N/A             | Yes     |                                                   |
| 46  | UMTS/LTE/NR + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant J                   | Yes* | Yes                 | N/A             | Yes     | * Bluetooth Tethering is considered only on Ant H |
| 47  | UMTS/LTE/NR + 2.4 GHz Bluetooth SISO + 5 GHz WLAN MIMO                       | Yes* | Yes                 | Yes*            | Yes     | * Bluetooth Tethering is considered only on Ant H |
| 48  | UMTS/LTE/NR + 2.4 GHz Bluetooth SISO + 5 GHz WLAN SISO                       | Yes* | Yes                 | Yes*            | Yes     | * Bluetooth Tethering is considered only on Ant H |
| 49  | UMTS/LTE/NR + 2.4 GHz Bluetooth SISO + 6 GHz WLAN MIMO                       | Yes* | Yes                 | N/A             | Yes     | * Bluetooth Tethering is considered only on Ant H |
| 50  | UMTS/LTE/NR + 2.4 GHz Bluetooth SISO + 6 GHz WLAN SISO                       | Yes* | Yes                 | N/A             | Yes     | * Bluetooth Tethering is considered only on Ant H |
| 51  | UMTS/LTE/NR + 2.4 GHz Bluetooth Dual + 5 GHz WLAN MIMO                       | Yes  | Yes                 | N/A             | Yes     |                                                   |
| 52  | UMTS/LTE/NR + 2.4 GHz Bluetooth Dual + 5 GHz WLAN SISO                       | Yes  | Yes                 | N/A             | Yes     |                                                   |
| 53  | UMTS/LTE/NR + 2.4 GHz Bluetooth Dual + 6 GHz WLAN MIMO                       | Yes  | Yes                 | N/A             | Yes     |                                                   |
| 54  | UMTS/LTE/NR + 2.4 GHz Bluetooth Dual + 6 GHz WLAN SISO                       | Yes  | Yes                 | N/A             | Yes     |                                                   |
| 55  | UMTS/LTE/NR + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant J + 5 GHz WLAN MIMO | Yes* | Yes                 | Yes*            | Yes     | * Bluetooth Tethering is considered only on Ant H |
| 56  | UMTS/LTE/NR + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant J + 5 GHz WLAN SISO | Yes* | Yes                 | Yes*            | Yes     | * Bluetooth Tethering is considered only on Ant H |
| 57  | UMTS/LTE/NR + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant J + 6 GHz WLAN MIMO | Yes* | Yes                 | N/A             | Yes     | * Bluetooth Tethering is considered only on Ant H |
| 58  | UMTS/LTE/NR + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant J + 6 GHz WLAN SISO | Yes* | Yes                 | N/A             | Yes     | * Bluetooth Tethering is considered only on Ant H |
| 59  | LTE + NR                                                                     | Yes  | Yes                 | N/A             | Yes     |                                                   |
| 60  | LTE + NR + 2.4 GHz Bluetooth SISO                                            | Yes* | Yes                 | Yes*            | Yes     | * Bluetooth Tethering is considered only on Ant H |
| 61  | LTE + NR + 2.4 GHz Bluetooth Dual                                            | Yes  | Yes                 | N/A             | Yes     |                                                   |
| 62  | LTE + NR + 2.4 GHz WLAN MIMO                                                 | Yes  | Yes                 | Yes             | Yes     |                                                   |
| 63  | LTE + NR + 2.4 GHz WLAN SISO                                                 | Yes  | Yes                 | Yes             | Yes     |                                                   |
| 64  | LTE + NR + 5 GHz WLAN MIMO                                                   | Yes  | Yes                 | Yes             | Yes     |                                                   |
| 65  | LTE + NR + 5 GHz WLAN SISO                                                   | Yes  | Yes                 | Yes             | Yes     |                                                   |
| 66  | LTE + NR + 6 GHz WLAN MIMO                                                   | Yes  | Yes                 | Yes             | Yes     |                                                   |
| 67  | LTE + NR + 6 GHz WLAN SISO                                                   | Yes  | Yes                 | N/A             | Yes     |                                                   |
| 68  | LTE + NR + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO                               | Yes  | Yes                 | Yes             | Yes     |                                                   |
| 69  | LTE + NR + 2.4 GHz WLAN MIMO + 5 GHz WLAN SISO                               | Yes  | Yes                 | Yes             | Yes     |                                                   |
| 70  | LTE + NR + 2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO                               | Yes  | Yes                 | N/A             | Yes     |                                                   |
| 71  | LTE + NR + 2.4 GHz WLAN MIMO + 6 GHz WLAN SISO                               | Yes  | Yes                 | N/A             | Yes     |                                                   |
| 72  | LTE + NR + 2.4 GHz WLAN SISO + 5 GHz WLAN MIMO                               | Yes  | Yes                 | Yes             | Yes     |                                                   |
| 73  | LTE + NR + 2.4 GHz WLAN SISO + 5 GHz WLAN SISO                               | Yes  | Yes                 | Yes             | Yes     |                                                   |
| 74  | LTE + NR + 2.4 GHz WLAN SISO + 6 GHz WLAN MIMO                               | Yes  | Yes                 | N/A             | Yes     |                                                   |
| 75  | LTE + NR + 2.4 GHz WLAN SISO + 6 GHz WLAN SISO                               | Yes  | Yes                 | N/A             | Yes     |                                                   |
| 76  | LTE + NR + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant J                      | Yes* | Yes                 | Yes*            | Yes     | * Bluetooth Tethering is considered only on Ant H |
| 77  | LTE + NR + 2.4 GHz Bluetooth SISO + 5 GHz WLAN MIMO                          | Yes* | Yes                 | Yes*            | Yes     | * Bluetooth Tethering is considered only on Ant H |
| 78  | LTE + NR + 2.4 GHz Bluetooth SISO + 5 GHz WLAN SISO                          | Yes* | Yes                 | Yes*            | Yes     | * Bluetooth Tethering is considered only on Ant H |
| 79  | LTE + NR + 2.4 GHz Bluetooth SISO + 6 GHz WLAN MIMO                          | Yes* | Yes                 | N/A             | Yes     | * Bluetooth Tethering is considered only on Ant H |
| 80  | LTE + NR + 2.4 GHz Bluetooth SISO + 6 GHz WLAN SISO                          | Yes* | Yes                 | N/A             | Yes     | * Bluetooth Tethering is considered only on Ant H |
| 81  | LTE + NR + 2.4 GHz Bluetooth Dual + 5 GHz WLAN MIMO                          | Yes  | Yes                 | N/A             | Yes     |                                                   |
| 82  | LTE + NR + 2.4 GHz Bluetooth Dual + 5 GHz WLAN SISO                          | Yes  | Yes                 | N/A             | Yes     |                                                   |
| 83  | LTE + NR + 2.4 GHz Bluetooth Dual + 6 GHz WLAN MIMO                          | Yes  | Yes                 | N/A             | Yes     |                                                   |
| 84  | LTE + NR + 2.4 GHz Bluetooth Dual + 6 GHz WLAN SISO                          | Yes  | Yes                 | N/A             | Yes     |                                                   |
| 85  | LTE + NR + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant J + 5 GHz WLAN MIMO    | Yes* | Yes                 | Yes*            | Yes     | * Bluetooth Tethering is considered only on Ant H |
| 86  | LTE + NR + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant J + 5 GHz WLAN SISO    | Yes* | Yes                 | Yes*            | Yes     | * Bluetooth Tethering is considered only on Ant H |
| 87  | LTE + NR + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant J + 6 GHz WLAN MIMO    | Yes* | Yes                 | N/A             | Yes     | * Bluetooth Tethering is considered only on Ant H |
| 88  | LTE + NR + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant J + 6 GHz WLAN SISO    | Yes* | Yes                 | N/A             | Yes     | * Bluetooth Tethering is considered only on Ant H |
| 89  | GPS/EDGE + 2.4 GHz Bluetooth SISO                                            | N/A  | N/A                 | Yes*            | Yes     | * Bluetooth Tethering is considered only on Ant H |
| 90  | GPS/EDGE + 2.4 GHz Bluetooth Dual                                            | N/A  | N/A                 | Yes             | Yes     |                                                   |
| 91  | GPS/EDGE + 2.4 GHz WLAN MIMO                                                 | N/A  | N/A                 | Yes             | Yes     |                                                   |
| 92  | GPS/EDGE + 2.4 GHz WLAN SISO                                                 | N/A  | N/A                 | Yes             | Yes     |                                                   |
| 93  | GPS/EDGE + 5 GHz WLAN MIMO                                                   | N/A  | N/A                 | Yes             | Yes     |                                                   |
| 94  | GPS/EDGE + 5 GHz WLAN SISO                                                   | N/A  | N/A                 | Yes             | Yes     |                                                   |
| 95  | GPS/EDGE + 6 GHz WLAN MIMO                                                   | N/A  | N/A                 | N/A             | Yes     |                                                   |
| 96  | GPS/EDGE + 6 GHz WLAN SISO                                                   | N/A  | N/A                 | N/A             | Yes     |                                                   |
| 97  | GPS/EDGE + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO                               | N/A  | N/A                 | Yes             | Yes     |                                                   |
| 98  | GPS/EDGE + 2.4 GHz WLAN MIMO + 5 GHz WLAN SISO                               | N/A  | N/A                 | Yes             | Yes     |                                                   |
| 99  | GPS/EDGE + 2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO                               | N/A  | N/A                 | N/A             | Yes     |                                                   |
| 100 | GPS/EDGE + 2.4 GHz WLAN MIMO + 6 GHz WLAN SISO                               | N/A  | N/A                 | N/A             | Yes     |                                                   |
| 101 | GPS/EDGE + 2.4 GHz WLAN SISO + 5 GHz WLAN MIMO                               | N/A  | N/A                 | N/A             | Yes     |                                                   |
| 102 | GPS/EDGE + 2.4 GHz WLAN SISO + 5 GHz WLAN SISO                               | N/A  | N/A                 | N/A             | Yes     |                                                   |
| 103 | GPS/EDGE + 2.4 GHz WLAN SISO + 6 GHz WLAN MIMO                               | N/A  | N/A                 | N/A             | Yes     |                                                   |
| 104 | GPS/EDGE + 2.4 GHz WLAN SISO + 6 GHz WLAN SISO                               | N/A  | N/A                 | N/A             | Yes     |                                                   |
| 105 | GPS/EDGE + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant J                      | N/A  | N/A                 | Yes*            | Yes     | * Bluetooth Tethering is considered               |
| 106 | GPS/EDGE + 2.4 GHz Bluetooth SISO + 5 GHz WLAN MIMO                          | N/A  | N/A                 | Yes*            | Yes     | * Bluetooth Tethering is considered               |
| 107 | GPS/EDGE + 2.4 GHz Bluetooth SISO + 5 GHz WLAN SISO                          | N/A  | N/A                 | Yes*            | Yes     | * Bluetooth Tethering is considered               |
| 108 | GPS/EDGE + 2.4 GHz Bluetooth SISO + 6 GHz WLAN MIMO                          | N/A  | N/A                 | N/A             | Yes     |                                                   |
| 109 | GPS/EDGE + 2.4 GHz Bluetooth SISO + 6 GHz WLAN SISO                          | N/A  | N/A                 | N/A             | Yes     |                                                   |
| 110 | GPS/EDGE + 2.4 GHz Bluetooth Dual + 5 GHz WLAN MIMO                          | N/A  | N/A                 | Yes             | Yes     |                                                   |
| 111 | GPS/EDGE + 2.4 GHz Bluetooth Dual + 5 GHz WLAN SISO                          | N/A  | N/A                 | Yes             | Yes     |                                                   |
| 112 | GPS/EDGE + 2.4 GHz Bluetooth Dual + 6 GHz WLAN MIMO                          | N/A  | N/A                 | N/A             | Yes     |                                                   |
| 113 | GPS/EDGE + 2.4 GHz Bluetooth Dual + 6 GHz WLAN SISO                          | N/A  | N/A                 | N/A             | Yes     |                                                   |
| 114 | GPS/EDGE + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant J + 5 GHz WLAN MIMO    | N/A  | N/A                 | Yes*            | Yes     | * Bluetooth Tethering is considered               |
| 115 | GPS/EDGE + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant J + 5 GHz WLAN SISO    | N/A  | N/A                 | Yes*            | Yes     | * Bluetooth Tethering is considered               |
| 116 | GPS/EDGE + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant J + 6 GHz WLAN MIMO    | N/A  | N/A                 | N/A             | Yes     |                                                   |
| 117 | GPS/EDGE + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant J + 6 GHz WLAN SISO    | N/A  | N/A                 | N/A             | Yes     |                                                   |

|                                                    |                                       |                                          |
|----------------------------------------------------|---------------------------------------|------------------------------------------|
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1. No other simultaneous scenarios besides described above is supported for this model.
2. SISO represents 2.4 GHz WLAN/BT transmission on Ant H or Ant J, and 5/6 GHz transmission on Ant H or Ant E.
3. 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.
4. Per the manufacturer, WIFI Direct is not expected to be used in conjunction with a held-to-ear or body-worn accessory voice call. Therefore, there are no simultaneous transmission scenarios involving WIFI direct beyond that listed in the above table.
5. 5 GHz Wireless Router is only supported for the U-NII-3 by S/W, therefore U-NII-1, U-NII-2A, U-NII-2C, and U-NII-4 were not evaluated for wireless router conditions.
6. 6 GHz Wireless Router is not supported, therefore it was not evaluated for wireless router conditions.
7. This device supports 2x2 MIMO Tx for WLAN 802.11a/b/g/n/ac/ax/be. 802.11a/b/g/n/ac/ax/be supports CDD and STBC and 802.11n/ac/ax/be additionally supports SDM.
8. This device supports VoWIFI.
9. This device supports Bluetooth Tethering on Ant H only.
10. This device supports VoLTE.
11. This device supports VoNR.
12. LTE + 5G NR FR1 Scenarios are limited to EN-DC combinations with anchor bands as shown in the NR FR1 checklist.
13. UWB and NFC were evaluated for phablet based on expected usage conditions.

## 2.8 Miscellaneous SAR Test Considerations

### (A) WIFI/BT

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

Since Wireless Router operations are not allowed by the chipset firmware using U-NII-1, U-NII-2A, U-NII-2C, U-NII-4 WIFI and 6 GHz, only 2.4 GHz WIFI, 2.4 GHz Bluetooth, and U-NII-3 WIFI Hotspot SAR tests and combinations are considered for SAR with respect to Wireless Router configurations according to FCC KDB 941225 D06v02r01.

This device supports IEEE 802.11ax/be with the following features:

- a) Up to 320 MHz Bandwidth only for 6GHz
- b) Up to 160 MHz Bandwidth only for 5/6 GHz
- c) Up to 20 MHz Bandwidth only for 2.4 GHz
- d) 2 Tx antenna output
- e) Up to 4KQAM is supported
- f) TDWR and Band gap channels are supported for 5/6 GHz
- g) MU-MIMO UL Operations are not supported

Per FCC KDB Publication 648474 D01v06r03, this device is considered a "phablet" since the display diagonal dimension is greater than 150mm 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, U-NII-4 WIFI and 6 GHz, phablet SAR tests were performed. Phablet SAR was not evaluated for 2.4 GHz WLAN, 2.4 GHz Bluetooth, and U-NII-3 WLAN operations since wireless router 1g SAR was < 1.2 W/kg.

Per April 2019 TCB Workshop Notes and FCC guidance, SAR testing for 802.11ax/be follows initial test configuration procedures of KDB 248227, with 802.11ax/be considered a higher order 802.11 mode.

|                                                    |                                       |                                          |
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Per FCC guidance, SAR was performed using 6.5 GHz SAR probe calibration factors for WIFI 6GHz/UWB and 8GHz SAR probe calibration factors for UWB. FCC KDB 648474, FCC KDB 941225 D07 and FCC KDB 248227 were followed for test positions, distances, and modes. Absorbed power density (APD) using a 4cm<sup>2</sup> averaging area is reported based on SAR measurements. Incident power density is evaluated at 2mm ensuring that the resolution is sufficient such that integrated power density (iPD) between d=2mm and d=λ/5mm is ≥ -1dB per equipment manufacturer guidance. Power density results are scaled up for uncertainty above 30%. Per TCB workshop October 2020 notes, 5 channels were tested for WIFI 6 GHz.

#### **(B) Licensed Transmitter(s)**

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

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

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

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

Per FCC KDB Publication 648474 D01v06r03, this device is considered a "phablet" since the display diagonal dimension is greater than 150mm and less than 200mm. Therefore, phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR > 1.2 W/kg.

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

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

This device supports both Power Class 2 (PC2) and Power Class 3 (PC3) for LTE Band 41. Per May 2017 TCB Workshop Notes, SAR tests were performed with Power Class 3 (given the specific UL/DL limitations for Power Class 2). Additionally, SAR testing for the power class 2 condition was evaluated for the highest configuration in Power Class 3 for each test configuration to confirm the results were scalable linearly (See Section 15).

|                                                    |                                       |                                          |
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This device can transmit with antenna switching for bands/modes on antenna A,B,D,E, and F. SAR tests were performed for each antenna where switching is used per band/mode to ensure compliance. Antennas and indicated band/modes are included in section 2.4.1 of this report.

Per FCC Guidance, C-Band for NR n77 (3705 – 3975 MHz) was fully tested according to FCC procedures. For each exposure condition and antenna, the worst-case position was additionally evaluated for the NR n77 DoD (3455.01 – 3544.98 MHz).

This device uses two transmit pathways for n41 operations (Path 1 and Path 2). For each exposure condition, the pathway with the highest target power was fully evaluated. The worst case for each antenna and exposure condition was additionally evaluated using the other path.

NR implementation supports SA and NSA mode. In EN-DC mode, NR operates with the LTE Bands shown in the NR FR1 checklist acting as anchor bands. Per FCC guidance, SAR tests for NR Bands and LTE Anchors Bands were performed separately due to limitations in SAR probe calibration factors.

SRS was tested with CW signal per Qualcomm guidance in 80-w2112-4.

Per Qualcomm guidance in 80-W2112-4, when hotspot mode applies, 10-g extremity SAR is required for the surfaces and edges with hotspot mode 1g reported SAR > 1.2 W/kg. For surfaces and edges with hotspot mode 1g SAR < 1.2 W/kg, the 10-g extremity can be excluded when the normalized *SAR\_design\_target* for extremity DSI is less than or equal to that of hotspot DSI.

$$SAR\_design\_target\_extremity \leq \frac{SAR\_design\_target\_hotspot}{1g\ SAR\ limit} * 10g\ SAR\ limit$$

## 2.9 Guidance Applied

- IEEE 1528-2013
- FCC KDB Publication 941225 D01v03r01, D05v02r05, D05Av01r02, D06v02r01 (2G/3G/4G and Hotspot)
- FCC KDB Publication 248227 D01v02r02 (SAR Considerations for 802.11 Devices)
- FCC KDB Publication 447498 D01v06 (General SAR Guidance)
- FCC KDB Publication 865664 D01v01r04, D02v01r02 (SAR Measurements up to 6 GHz)
- FCC KDB Publication 648474 D01v06r03 (Phablet Procedures)
- October 2013 TCB Workshop Notes (GPRS Testing Considerations)
- May 2017 TCB Workshop Notes (LTE 4x4 Downlink MIMO)
- November 2017, April 2018, October 2018 TCB Workshop Notes (LTE Carrier Aggregation)
- April 2019 TCB Workshop Notes (IEEE 802.11ax, Dynamic Antenna Tuning)
- November 2017, October 2018, April 2019, November 2019, October 2020 TCBC Workshop Notes (6-8 GHz)
- SPEAG DASY6 Application Note (Interim Procedures for Devices Operating at 6-10 GHz) (Nov 2021)
- IEC/IEEE 63195-1:2022
- IEC 62479:2010

|                                             |                                |                                   |
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## 2.10 Device Serial Numbers

Several samples with identical hardware were used to support SAR testing. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units. The serial numbers used for each test are indicated alongside the results in Section 12.

## 2.11 Bibliography

| Report Type                                      | Report Serial Number |
|--------------------------------------------------|----------------------|
| RF Exposure Part 0 Test Report – Reference Model | 1M2408260067-31.A3L  |
| RF Exposure Part 1 Test Report – Reference Model | 1M2408260067-23.A3L  |
| RF Exposure Part 2 Test Report – Reference Model | 1M2408260067-24.A3L  |
| RF Exposure Part 0 Test Report                   | 1M2408260069-27.A3L  |
| RF Exposure Part 2 Test Report                   | 1M2408260069-02.A3L  |
| RF Exposure Compliance Summary Report            | 1M2408260069-03.A3L  |

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# 3 LTE AND NR INFORMATION

| LTE Information                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                 |                |              |
|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------|----------------|--------------|
| Form Factor                                                                                                       | Portable Handset                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |                 |                |              |
| Frequency Range of each LTE transmission band                                                                     | LTE Band 12: 699.7 - 715.3 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |                 |                |              |
|                                                                                                                   | LTE Band 17: 706.5 - 713.5 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |                 |                |              |
|                                                                                                                   | LTE Band 13: 779.5 - 784.5 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |                 |                |              |
|                                                                                                                   | LTE Band 26: 814.7 - 848.3 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |                 |                |              |
|                                                                                                                   | LTE Band 5: 824.7 - 848.3 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |                 |                |              |
|                                                                                                                   | LTE Band 66: 1710.7 - 1779.3 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |                 |                |              |
|                                                                                                                   | LTE Band 4: 1710.7 - 1754.3 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                 |                |              |
|                                                                                                                   | LTE Band 25: 1850.7 - 1914.3 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |                 |                |              |
|                                                                                                                   | LTE Band 2: 1850.7 - 1909.3 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                 |                |              |
|                                                                                                                   | LTE Band 41: 2498.5 - 2687.5 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |                 |                |              |
| Channel Bandwidths                                                                                                | LTE Band 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |                 |                |              |
|                                                                                                                   | LTE Band 17: 5 MHz, 10 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |                 |                |              |
|                                                                                                                   | LTE Band 13: 5 MHz, 10 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |                 |                |              |
|                                                                                                                   | LTE Band 26: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |                 |                |              |
|                                                                                                                   | LTE Band 5: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |                 |                |              |
|                                                                                                                   | LTE Band 66: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |                 |                |              |
|                                                                                                                   | LTE Band 4: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |                 |                |              |
|                                                                                                                   | LTE Band 25: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |                 |                |              |
|                                                                                                                   | LTE Band 2: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |                 |                |              |
|                                                                                                                   | LTE Band 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |                 |                |              |
| Channel Numbers and Frequencies (MHz)                                                                             | Low                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Low-Mid        | Mid             | Mid-High       | High         |
| LTE Band 12: 1.4 MHz                                                                                              | 699.7 (23017)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 707.5 (23095)  | 715.3 (23173)   |                |              |
| LTE Band 12: 3 MHz                                                                                                | 700.5 (23025)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 707.5 (23095)  | 714.5 (23165)   |                |              |
| LTE Band 12: 5 MHz                                                                                                | 701.5 (23035)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 707.5 (23095)  | 713.5 (23155)   |                |              |
| LTE Band 12: 10 MHz                                                                                               | 704 (23060)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 707.5 (23095)  | 711 (23130)     |                |              |
| LTE Band 17: 5 MHz                                                                                                | 706.5 (23755)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 710 (23790)    | 713.5 (23825)   |                |              |
| LTE Band 17: 10 MHz                                                                                               | 709 (23780)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 710 (23790)    | 711 (23800)     |                |              |
| LTE Band 13: 5 MHz                                                                                                | 779.5 (23205)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 782 (23230)    | 784.5 (23255)   |                |              |
| LTE Band 13: 10 MHz                                                                                               | (N/A)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 782 (23230)    | (N/A)           |                |              |
| LTE Band 26: 1.4 MHz                                                                                              | 814.7 (26697)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 831.5 (26865)  | 848.3 (27033)   |                |              |
| LTE Band 26: 3 MHz                                                                                                | 815.5 (26705)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 831.5 (26865)  | 847.5 (27025)   |                |              |
| LTE Band 26: 5 MHz                                                                                                | 816.5 (26715)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 831.5 (26865)  | 846.5 (27015)   |                |              |
| LTE Band 26: 10 MHz                                                                                               | 819 (26740)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 831.5 (26865)  | 844 (26990)     |                |              |
| LTE Band 26: 15 MHz                                                                                               | 821.5 (26785)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 831.5 (26865)  | 841.5 (26965)   |                |              |
| LTE Band 5: 1.4 MHz                                                                                               | 824.7 (20407)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 836.5 (20525)  | 848.3 (20643)   |                |              |
| LTE Band 5: 3 MHz                                                                                                 | 825.5 (20415)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 836.5 (20525)  | 847.5 (20635)   |                |              |
| LTE Band 5: 5 MHz                                                                                                 | 826.5 (20425)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 836.5 (20525)  | 846.5 (20625)   |                |              |
| LTE Band 5: 10 MHz                                                                                                | 829 (20450)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 836.5 (20525)  | 844 (20600)     |                |              |
| LTE Band 66: 1.4 MHz                                                                                              | 1710.7 (131979)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1745 (132322)  | 1779.3 (132665) |                |              |
| LTE Band 66: 3 MHz                                                                                                | 1711.5 (131987)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1745 (132322)  | 1778.5 (132657) |                |              |
| LTE Band 66: 5 MHz                                                                                                | 1712.5 (131997)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1745 (132322)  | 1777.5 (132647) |                |              |
| LTE Band 66: 10 MHz                                                                                               | 1715 (132022)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1745 (132322)  | 1775 (132622)   |                |              |
| LTE Band 66: 15 MHz                                                                                               | 1717.5 (132047)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1745 (132322)  | 1772.5 (132597) |                |              |
| LTE Band 66: 20 MHz                                                                                               | 1720 (132072)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1745 (132322)  | 1770 (132572)   |                |              |
| LTE Band 4: 1.4 MHz                                                                                               | 1710.7 (19957)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1732.5 (20175) | 1754.3 (20393)  |                |              |
| LTE Band 4: 3 MHz                                                                                                 | 1711.5 (19965)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1732.5 (20175) | 1753.5 (20385)  |                |              |
| LTE Band 4: 5 MHz                                                                                                 | 1712.5 (19975)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1732.5 (20175) | 1752.5 (20375)  |                |              |
| LTE Band 4: 10 MHz                                                                                                | 1715 (20000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1732.5 (20175) | 1750 (20350)    |                |              |
| LTE Band 4: 15 MHz                                                                                                | 1717.5 (20025)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1732.5 (20175) | 1747.5 (20325)  |                |              |
| LTE Band 4: 20 MHz                                                                                                | 1720 (20050)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1732.5 (20175) | 1745 (20300)    |                |              |
| LTE Band 25: 1.4 MHz                                                                                              | 1850.7 (26047)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1882.5 (26365) | 1914.3 (26683)  |                |              |
| LTE Band 25: 3 MHz                                                                                                | 1851.5 (26055)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1882.5 (26365) | 1913.5 (26675)  |                |              |
| LTE Band 25: 5 MHz                                                                                                | 1852.5 (26065)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1882.5 (26365) | 1912.5 (26665)  |                |              |
| LTE Band 25: 10 MHz                                                                                               | 1855 (26090)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1882.5 (26365) | 1910 (26640)    |                |              |
| LTE Band 25: 15 MHz                                                                                               | 1857.5 (26115)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1882.5 (26365) | 1907.5 (26615)  |                |              |
| LTE Band 25: 20 MHz                                                                                               | 1860 (26140)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1882.5 (26365) | 1905 (26590)    |                |              |
| LTE Band 2: 1.4 MHz                                                                                               | 1850.7 (18607)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1880 (18900)   | 1909.3 (19193)  |                |              |
| LTE Band 2: 3 MHz                                                                                                 | 1851.5 (18615)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1880 (18900)   | 1908.5 (19185)  |                |              |
| LTE Band 2: 5 MHz                                                                                                 | 1852.5 (18625)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1880 (18900)   | 1907.5 (19175)  |                |              |
| LTE Band 2: 10 MHz                                                                                                | 1855 (18650)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1880 (18900)   | 1905 (19150)    |                |              |
| LTE Band 2: 15 MHz                                                                                                | 1857.5 (18675)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1880 (18900)   | 1902.5 (19125)  |                |              |
| LTE Band 2: 20 MHz                                                                                                | 1860 (18700)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1880 (18900)   | 1900 (19100)    |                |              |
| LTE Band 41: 5 MHz                                                                                                | 2506 (39750)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2549.5 (40185) | 2593 (40620)    | 2636.5 (41055) | 2680 (41490) |
| LTE Band 41: 10 MHz                                                                                               | 2506 (39750)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2549.5 (40185) | 2593 (40620)    | 2636.5 (41055) | 2680 (41490) |
| LTE Band 41: 15 MHz                                                                                               | 2506 (39750)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2549.5 (40185) | 2593 (40620)    | 2636.5 (41055) | 2680 (41490) |
| LTE Band 41: 20 MHz                                                                                               | 2506 (39750)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2549.5 (40185) | 2593 (40620)    | 2636.5 (41055) | 2680 (41490) |
| UE Category                                                                                                       | UL UE Cat 18, DL UE Cat 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |                 |                |              |
| Modulations Supported in UL                                                                                       | QPSK, 16QAM, 64QAM, 256QAM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |                 |                |              |
| LTE MPR Permanently implemented per 3GPP TS 36.101 section 6.2.3-6.2.5? (manufacturer attestation to be provided) | YES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |                 |                |              |
| A-MPR (Additional MPR) disabled for SAR Testing?                                                                  | YES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |                 |                |              |
| LTE Carrier Aggregation Possible Combinations                                                                     | The technical description includes all the possible carrier aggregation combinations                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                 |                |              |
| LTE Additional Information                                                                                        | This device does not support full CA features on 3GPP Release 16. It supports carrier aggregation, downlink MIMO features as shown in the RF Conducted Powers section of this report and the Downlink LTE CA RF Conducted Powers Appendix. All uplink communications are identical to the Release 8 Specifications. Uplink communications are done on the PCC. The following LTE Release 16 Features are not supported: Relay, HetNet, Enhanced MIMO, eICIC, eMBMS, Wifi Offloading, Cross-Carrier Scheduling, Enhanced SC-FDMA. |                |                 |                |              |

|                                             |                                |                                   |
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| NR Information                                         |                                                                                                                  |                  |                  |                  |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|------------------|------------------|------------------|
| Form Factor                                            | Portable Handset                                                                                                 |                  |                  |                  |
| Frequency Range of each NR transmission band           | NR Band n5: 68.5 - 686.5 MHz                                                                                     |                  |                  |                  |
|                                                        | NR Band n66: 1712.5 - 1777.5 MHz                                                                                 |                  |                  |                  |
|                                                        | NR Band n25: 1852.5 - 1912.5 MHz                                                                                 |                  |                  |                  |
|                                                        | NR Band n2: 1852.5 - 1907.5 MHz                                                                                  |                  |                  |                  |
|                                                        | NR Band n41: 2501.01 - 2685 MHz                                                                                  |                  |                  |                  |
|                                                        | NR Band n77: 3455.01 - 3544.98 MHz; 3705 - 3975 MHz                                                              |                  |                  |                  |
| Channel Bandwidths                                     | NR Band n77 DoD: 3455.01 - 3544.98 MHz                                                                           |                  |                  |                  |
|                                                        | NR Band n5: 5 MHz, 10 MHz, 15 MHz, 20 MHz                                                                        |                  |                  |                  |
|                                                        | NR Band n66: 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 35 MHz, 40 MHz, 45 MHz                               |                  |                  |                  |
|                                                        | NR Band n25: 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 35 MHz, 40 MHz                                       |                  |                  |                  |
|                                                        | NR Band n2: 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 35 MHz, 40 MHz                                        |                  |                  |                  |
|                                                        | NR Band n41: 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz     |                  |                  |                  |
| Channel Numbers and Frequencies (MHz)                  | NR Band n77: 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz     |                  |                  |                  |
|                                                        | NR Band n77 DoD: 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz |                  |                  |                  |
|                                                        |                                                                                                                  |                  |                  |                  |
|                                                        |                                                                                                                  |                  |                  |                  |
|                                                        |                                                                                                                  |                  |                  |                  |
|                                                        |                                                                                                                  |                  |                  |                  |
| NR Band n5: 5 MHz                                      | 826.5 (169300)                                                                                                   |                  | 836.5 (167300)   | 846.5 (169300)   |
| NR Band n5: 10 MHz                                     | 829 (169300)                                                                                                     |                  | 836.5 (167300)   | 844 (169800)     |
| NR Band n5: 15 MHz                                     | 831.5 (169300)                                                                                                   |                  | 836.5 (167300)   | 841.5 (169300)   |
| NR Band n5: 20 MHz                                     | 834 (169800)                                                                                                     |                  | 836.5 (167300)   | 839 (167800)     |
| NR Band n66: 5 MHz                                     | 1712.5 (342500)                                                                                                  |                  | 1745 (349000)    | 1777.5 (355500)  |
| NR Band n66: 10 MHz                                    | 1715 (343000)                                                                                                    |                  | 1745 (349000)    | 1775 (355000)    |
| NR Band n66: 15 MHz                                    | 1717.5 (343500)                                                                                                  |                  | 1745 (349000)    | 1772.5 (354500)  |
| NR Band n66: 20 MHz                                    | 1720 (344000)                                                                                                    |                  | 1745 (349000)    | 1770 (354000)    |
| NR Band n66: 25 MHz                                    | 1722.5 (344500)                                                                                                  |                  | 1745 (349000)    | 1767.5 (353500)  |
| NR Band n66: 30 MHz                                    | 1725 (345000)                                                                                                    |                  | 1745 (349000)    | 1765 (353000)    |
| NR Band n66: 35 MHz                                    | 1727.5 (345500)                                                                                                  |                  | 1745 (349000)    | 1762.5 (352500)  |
| NR Band n66: 40 MHz                                    | 1730 (346000)                                                                                                    |                  | 1745 (349000)    | 1760 (352000)    |
| NR Band n66: 45 MHz                                    | 1732.5 (346500)                                                                                                  |                  | 1745 (349000)    | 1757.5 (351500)  |
| NR Band n25: 5 MHz                                     | 1852.5 (370500)                                                                                                  |                  | 1882.5 (376500)  | 1912.5 (382500)  |
| NR Band n25: 10 MHz                                    | 1855 (371000)                                                                                                    |                  | 1882.5 (376500)  | 1910 (382000)    |
| NR Band n25: 15 MHz                                    | 1857.5 (371500)                                                                                                  |                  | 1882.5 (376500)  | 1907.5 (381500)  |
| NR Band n25: 20 MHz                                    | 1860 (372000)                                                                                                    |                  | 1882.5 (376500)  | 1905 (381000)    |
| NR Band n25: 25 MHz                                    | 1862.5 (372500)                                                                                                  |                  | 1882.5 (376500)  | 1902.5 (380500)  |
| NR Band n25: 30 MHz                                    | 1865 (373000)                                                                                                    |                  | 1882.5 (376500)  | 1900 (380000)    |
| NR Band n25: 35 MHz                                    | 1867.5 (373500)                                                                                                  |                  | 1882.5 (376500)  | 1897.5 (379500)  |
| NR Band n25: 40 MHz                                    | 1870 (374000)                                                                                                    |                  | 1882.5 (376500)  | 1895 (379000)    |
| NR Band n2: 5 MHz                                      | 1852.5 (370500)                                                                                                  |                  | 1880 (376000)    | 1907.5 (381500)  |
| NR Band n2: 10 MHz                                     | 1855 (371000)                                                                                                    |                  | 1880 (376000)    | 1905 (381000)    |
| NR Band n2: 15 MHz                                     | 1857.5 (371500)                                                                                                  |                  | 1880 (376000)    | 1902.5 (380500)  |
| NR Band n2: 20 MHz                                     | 1860 (372000)                                                                                                    |                  | 1880 (376000)    | 1900 (380000)    |
| NR Band n2: 25 MHz                                     | (N/A)                                                                                                            |                  | 1880 (376000)    | (N/A)            |
| NR Band n2: 30 MHz                                     | (N/A)                                                                                                            |                  | 1880 (376000)    | (N/A)            |
| NR Band n2: 35 MHz                                     | (N/A)                                                                                                            |                  | 1880 (376000)    | (N/A)            |
| NR Band n2: 40 MHz                                     | (N/A)                                                                                                            |                  | 1880 (376000)    | (N/A)            |
| NR Band n41: 10 MHz                                    | 2501.01 (500202)                                                                                                 | 2547 (509400)    | 2592.99 (518598) | 2639.01 (527802) |
| NR Band n41: 15 MHz                                    | 2503.5 (500700)                                                                                                  | 2548.26 (509852) | 2592.99 (518598) | 2637.75 (527550) |
| NR Band n41: 20 MHz                                    | 2506.02 (501204)                                                                                                 | 2549.49 (509898) | 2592.99 (518598) | 2636.49 (527298) |
| NR Band n41: 25 MHz                                    | 2508.51 (501702)                                                                                                 | 2550.75 (510150) | 2592.99 (518598) | 2635.26 (527052) |
| NR Band n41: 30 MHz                                    | 2511 (502200)                                                                                                    | 2552.01 (510402) | 2592.99 (518598) | 2634 (526800)    |
| NR Band n41: 35 MHz                                    | 2513.52 (502704)                                                                                                 | 2553.24 (510648) | 2592.99 (518598) | 2632.74 (526548) |
| NR Band n41: 40 MHz                                    | 2516.01 (503202)                                                                                                 | 2557.34 (513468) | (N/A)            | 2618.67 (523734) |
| NR Band n41: 45 MHz                                    | 2518.5 (503700)                                                                                                  | 2558.18 (513636) | 2617.83 (523566) | 2667.48 (533496) |
| NR Band n41: 50 MHz                                    | 2521.02 (504204)                                                                                                 |                  | 2592.99 (518598) | 2664.99 (532998) |
| NR Band n41: 60 MHz                                    | 2526 (505200)                                                                                                    |                  | 2592.99 (518598) | 2659.98 (531996) |
| NR Band n41: 70 MHz                                    | 2531.01 (506202)                                                                                                 |                  | (N/A)            | 2655 (531000)    |
| NR Band n41: 80 MHz                                    | 2536.02 (507204)                                                                                                 |                  | (N/A)            | 2649.99 (529998) |
| NR Band n41: 90 MHz                                    | 2541 (508200)                                                                                                    |                  | (N/A)            | 2644.98 (528996) |
| NR Band n41: 100 MHz                                   | 2592.99 (518598)                                                                                                 |                  | 2592.99 (518598) | 2640 (528000)    |
| NR Band n77 DoD: 10 MHz                                | 3455.01 (630334)                                                                                                 |                  | 3500.01 (633334) | 3544.98 (636332) |
| NR Band n77 DoD: 15 MHz                                | 3457.5 (630500)                                                                                                  |                  | 3500.01 (633334) | 3542.49 (636166) |
| NR Band n77 DoD: 20 MHz                                | 3460.02 (630668)                                                                                                 |                  | 3500.01 (633334) | 3540 (636000)    |
| NR Band n77 DoD: 25 MHz                                | 3462.51 (630834)                                                                                                 |                  | 3500.01 (633334) | 3537.48 (635832) |
| NR Band n77 DoD: 30 MHz                                | 3465 (631000)                                                                                                    |                  | 3500.01 (633334) | 3534.99 (635666) |
| NR Band n77 DoD: 40 MHz                                | 3470.01 (631334)                                                                                                 |                  | (N/A)            | 3529.98 (635332) |
| NR Band n77 DoD: 50 MHz                                | 3475.02 (631668)                                                                                                 |                  | (N/A)            | 3525 (635000)    |
| NR Band n77 DoD: 60 MHz                                | (N/A)                                                                                                            |                  | 3500.01 (633334) | (N/A)            |
| NR Band n77 DoD: 70 MHz                                | (N/A)                                                                                                            |                  | 3500.01 (633334) | (N/A)            |
| NR Band n77 DoD: 80 MHz                                | (N/A)                                                                                                            |                  | 3500.01 (633334) | (N/A)            |
| NR Band n77 DoD: 90 MHz                                | (N/A)                                                                                                            |                  | 3500.01 (633334) | (N/A)            |
| NR Band n77 DoD: 100 MHz                               | (N/A)                                                                                                            |                  | 3500.01 (633334) | (N/A)            |
| NR Band n77: 10 MHz                                    | 3705 (647000)                                                                                                    | 3759 (650600)    | 3813 (654200)    | 3867 (657800)    |
| NR Band n77: 15 MHz                                    | 3707.52 (647168)                                                                                                 | 3760.5 (650700)  | 3813.51 (654234) | 3866.48 (657766) |
| NR Band n77: 20 MHz                                    | 3710.01 (647334)                                                                                                 | 3762 (650800)    | 3813.99 (654266) | 3866.01 (657734) |
| NR Band n77: 25 MHz                                    | 3712.5 (647500)                                                                                                  | 3763.5 (650900)  | 3814.5 (654300)  | 3865.5 (657700)  |
| NR Band n77: 30 MHz                                    | 3715.02 (647666)                                                                                                 | 3765 (651000)    | 3815.01 (654334) | 3864.99 (657666) |
| NR Band n77: 40 MHz                                    | 3720 (648000)                                                                                                    | 3768 (651200)    | 3816 (654400)    | 3864 (657600)    |
| NR Band n77: 50 MHz                                    | 3725.01 (648334)                                                                                                 | 3782.49 (652166) | (N/A)            | 3864 (657600)    |
| NR Band n77: 60 MHz                                    | 3730.02 (649668)                                                                                                 | 3803.34 (653556) | (N/A)            | 3864 (657600)    |
| NR Band n77: 70 MHz                                    | 3735 (649000)                                                                                                    | 3804.99 (653666) | (N/A)            | 3864 (657600)    |
| NR Band n77: 80 MHz                                    | 3740.01 (649334)                                                                                                 | (N/A)            | 3840 (656000)    | 3864 (657600)    |
| NR Band n77: 90 MHz                                    | 3745.02 (649668)                                                                                                 | (N/A)            | 3840 (656000)    | 3864 (657600)    |
| NR Band n77: 100 MHz                                   | 3750 (650000)                                                                                                    | (N/A)            | 3840 (656000)    | 3864 (657600)    |
| SCS for NR Band n5, n66, n25, n2                       | 15 kHz                                                                                                           |                  |                  |                  |
| SCS for NR Band n41, n77, n77 DoD                      | 30 kHz                                                                                                           |                  |                  |                  |
| Modulations Supported in UL                            | DFT-s-OFDM: m/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM<br>CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM                          |                  |                  |                  |
| A-MPR (Additional MPDR) disabled for SAR Testing?      | YES                                                                                                              |                  |                  |                  |
| EN-DC and NR Carrier Aggregation Possible Combinations | The technical description includes all the possible carrier aggregation combinations                             |                  |                  |                  |
| LTE Anchor Bands for NR Band n5                        | 706                                                                                                              |                  |                  |                  |
| LTE Anchor Bands for NR Band n66                       | 2/5/12/13                                                                                                        |                  |                  |                  |
| LTE Anchor Bands for NR Band n25                       | 12/13                                                                                                            |                  |                  |                  |
| LTE Anchor Bands for NR Band n2                        | 4/5/12/13/66                                                                                                     |                  |                  |                  |
| LTE Anchor Bands for NR Band n41                       | 2/4/5/12/26/66                                                                                                   |                  |                  |                  |
| LTE Anchor Bands for NR Band n77                       | 2/5/12/13/66                                                                                                     |                  |                  |                  |
| LTE Anchor Bands for NR Band n77 DoD                   | 2/5/12/13/66                                                                                                     |                  |                  |                  |

|                                             |                                |                                   |
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## 4 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.

### 4.1 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 ( $\rho$ ). It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body (see Equation 4-1).

**Equation 4-1**  
**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:

- $\sigma$  = conductivity of the tissue-simulating material (S/m)
- $\rho$  = 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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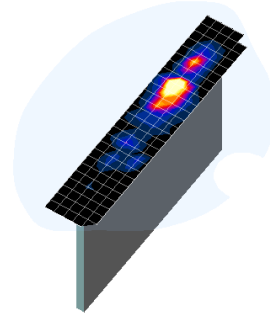
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## 5 DOSIMETRIC ASSESSMENT

### 5.1 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 5-1) 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 5-1) 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 5-1. 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 5-1**  
**Sample SAR Area**  
**Scan**

**Table 5-1**  
**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                              | Graded Grid                 |                                          |                                          |
|              |                                                                                           |                                                                                           |                                           | $\Delta z_{\text{zoom}}(n)$ | $\Delta z_{\text{zoom}}(1)^*$            |                                          |
| $\leq 2$ GHz | $\leq 15$                                                                                 | $\leq 8$                                                                                  | $\leq 5$                                  | $\leq 4$                    | $\leq 1.5^* \Delta z_{\text{zoom}}(n-1)$ | $\geq 30$                                |
| 2-3 GHz      | $\leq 12$                                                                                 | $\leq 5$                                                                                  | $\leq 5$                                  | $\leq 4$                    | $\leq 1.5^* \Delta z_{\text{zoom}}(n-1)$ | $\geq 30$                                |
| 3-4 GHz      | $\leq 12$                                                                                 | $\leq 5$                                                                                  | $\leq 4$                                  | $\leq 3$                    | $\leq 1.5^* \Delta z_{\text{zoom}}(n-1)$ | $\geq 28$                                |
| 4-5 GHz      | $\leq 10$                                                                                 | $\leq 4$                                                                                  | $\leq 3$                                  | $\leq 2.5$                  | $\leq 1.5^* \Delta z_{\text{zoom}}(n-1)$ | $\geq 25$                                |
| 5-6 GHz      | $\leq 10$                                                                                 | $\leq 4$                                                                                  | $\leq 2$                                  | $\leq 2$                    | $\leq 1.5^* \Delta z_{\text{zoom}}(n-1)$ | $\geq 22$                                |

\*Also compliant to IEEE 1528-2013 Table 6

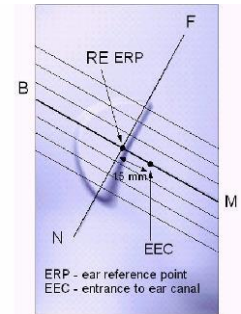
|                                                    |                                       |                                          |
|----------------------------------------------------|---------------------------------------|------------------------------------------|
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## 6 DEFINITION OF REFERENCE POINTS

### 6.1 EAR REFERENCE POINT

Figure 6-2 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 6-1. 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 6-1). 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].



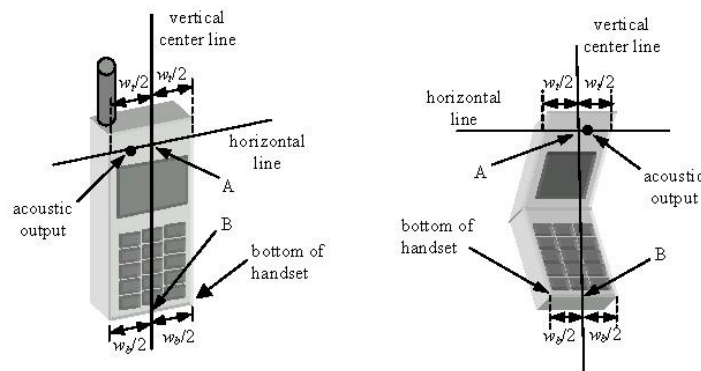
**Figure 6-1**  
Close-Up Side view  
of ERP

### 6.2 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 6-3). 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 6-2**  
Front, back and side view of SAM Twin Phantom



**Figure 6-3**  
Handset Vertical Center & Horizontal Line Reference Points

|                                             |                                |                                   |
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## 7 TEST CONFIGURATION POSITIONS

### 7.1 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  $\delta = 0.02$ .

### 7.2 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 7-1), 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.

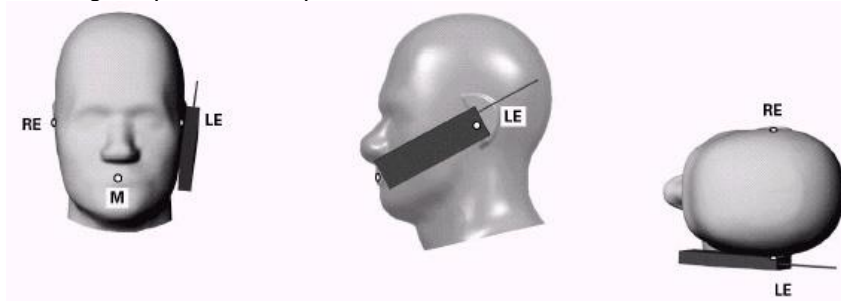


Figure 7-1 Front, Side and Top View of Cheek Position

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 7-2).

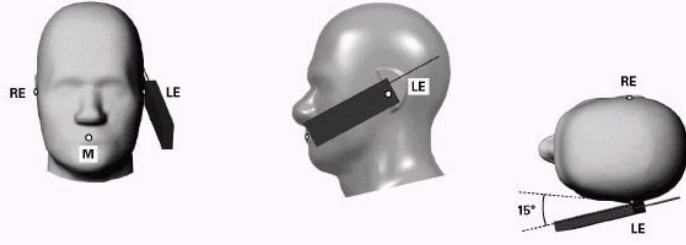
### 7.3 Positioning for Ear / 15° Tilt

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

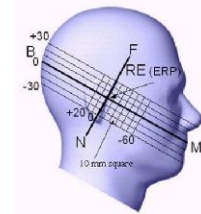
1. While maintaining the orientation of the phone, the phone was retracted parallel to the reference plane far enough to enable a rotation of the phone by 15 degrees.
2. The phone was then rotated around the horizontal line by 15 degrees.
3. While maintaining the orientation of the phone, the phone was 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 7-2).

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**Figure 7-2 Front, Side and Top View of Ear/15° Tilt Position**



**Figure 7-3 Side view w/ relevant markings**

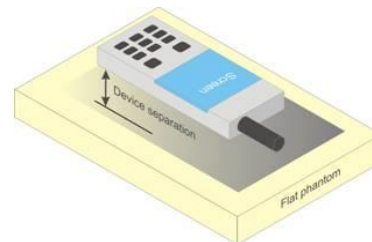
## 7.4 SAR Evaluations near the Mouth/Jaw Regions of the SAM Phantom

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 D01v06r03. 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.

## 7.5 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 7-4). Per FCC KDB Publication 648474 D01v06r03, 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 7-4 Sample Body-Worn Diagram**

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

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

Body-worn accessories may not always be supplied or available as options for some devices intended to be authorized for body-worn use. In this case, a test configuration with a separation distance between the back of the device and the flat phantom is used. Test position spacing was documented. Transmitters that are designed to operate in front of a person's face, as in push-to-talk configurations, are tested for SAR compliance with the front of the device positioned to face the flat phantom in head fluid. For devices that are carried next to the body such as a shoulder, waist or chest-worn transmitters, SAR compliance is tested with the accessories, including headsets and microphones, attached to the device and positioned against a flat phantom in a normal use configuration.

## 7.6 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.

## 7.7 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.

## 7.8 Phablet Configurations

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

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support voice calls next to the ear, the phablets procedures outlined in KDB Publication 648474 D01v06r03 should be applied to evaluate SAR compliance. A device marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance. In addition to the normally required head and body-worn accessory SAR test procedures required for handsets, the UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna  $\leq 25$  mm from that surface or edge, in direct contact with the phantom, for 10g SAR. The UMPC mini-tablet 1g SAR at 5 mm is not required. When hotspot mode applies, 10g SAR is required only for the surfaces and edges with hotspot mode 1g SAR  $> 1.2$  W/kg.

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## 8 RF EXPOSURE LIMITS

### 8.1 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.

### 8.2 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 8-1**  
**SAR Human Exposure Specified in ANSI/IEEE C95.1-1992 and Health Canada Safety Code 6**

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

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

|                                                    |                                       |                                          |
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### 8.3 RF Exposure Limits for Frequencies above 6 GHz

Per §1.1310 (d)(3), the MPE limits are applied for frequencies above 6 GHz. Power Density is expressed in units of  $W/m^2$  or  $mW/cm^2$ .

Peak Spatially Averaged Power Density was evaluated over a circular area of  $4\text{ cm}^2$  per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes.

**Table 8-2**  
**Human Exposure Limits Specified in FCC 47 CFR §1.1310**

| Human Exposure to Radiofrequency (RF) Radiation Limits        |                                |                           |
|---------------------------------------------------------------|--------------------------------|---------------------------|
| Frequency Range<br>[MHz]                                      | Power Density<br>[ $mW/cm^2$ ] | Average Time<br>[Minutes] |
| (A) Limits For Occupational / Controlled Environments         |                                |                           |
| 1,500 – 100,000                                               | 5.0                            | 6                         |
| (B) Limits For General Population / Uncontrolled Environments |                                |                           |
| 1,500 – 100,000                                               | 1.0                            | 30                        |

Note:  $1.0\text{ mW/cm}^2$  is  $10\text{ W/m}^2$

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## 9 FCC MEASUREMENT PROCEDURES

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

### 9.1 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.

### 9.2 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.

### 9.3 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.

### 9.4 SAR Measurement Conditions for UMTS

#### 9.4.1 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.

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#### 9.4.2 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.

#### 9.4.3 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.

#### 9.4.4 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.

#### 9.4.5 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.

#### 9.4.6 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.

### 9.5 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).

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### 9.5.1 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.

### 9.5.2 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.

### 9.5.3 A-MPR

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

### 9.5.4 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.

### 9.5.5 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.

### 9.5.6 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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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.

## 9.6 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.

### 9.6.1 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.

### 9.6.2 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.

### 9.6.3 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.

### 9.6.4 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 mini-tablet, procedures for initial test position can be applied. Using the transmission mode determined by the DSSS procedure or initial test configuration, area scans are measured for all

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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.

## 9.6.5 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.

## 9.6.6 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 April 2019 TCB Workshop and FCC guidance, 802.11ax/be was considered the highest order 802.11 mode. When the maximum output power are the same for multiple test channels, either according to the default or additional power measurement requirements, SAR is measured using the channel closest to the middle of the frequency band or aggregated band. When there are multiple channels with the same maximum output power, SAR is measured using the higher number channel.

## 9.6.7 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

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802.11 mode is considered for SAR measurements (See Section 9.6.6). When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

## 9.6.8 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.

## 9.6.9 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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## 10 RF CONDUCTED POWERS

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

### 10.1 GSM Conducted Powers

**Table 10-1**  
Measured  $P_{max}$  for all DSI for GSM 850 Ant A  
Measured  $P_{limit}$  for DSI = 0 (Body-worn, Hotspot or Phablet) for GSM 1900 Ant A

| 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          | 33.36                 | 33.32                 | 31.73                | 29.65                | 27.92                | 27.76                | 25.89                | 23.52                | 22.58                |
|                                                | 190          | 33.21                 | 33.13                 | 31.70                | 29.85                | 27.94                | 27.05                | 25.88                | 23.73                | 22.67                |
|                                                | 251          | 33.02                 | 32.91                 | 31.31                | 29.43                | 27.48                | 27.11                | 25.25                | 23.67                | 22.91                |
| GSM 1900                                       | 512          | 27.84                 | 27.91                 | 24.80                | 22.80                | 21.29                | 25.33                | 23.93                | 21.89                | 20.94                |
|                                                | 661          | 27.55                 | 27.51                 | 24.65                | 23.27                | 21.83                | 25.41                | 24.07                | 22.06                | 21.17                |
|                                                | 810          | 27.75                 | 27.66                 | 24.58                | 23.21                | 21.75                | 25.90                | 23.90                | 21.90                | 20.92                |
| 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          | 24.16                 | 24.12                 | 25.54                | 25.22                | 24.74                | 18.56                | 19.70                | 19.09                | 19.40                |
|                                                | 190          | 24.01                 | 23.93                 | 25.51                | 25.42                | 24.76                | 17.85                | 19.69                | 19.30                | 19.49                |
|                                                | 251          | 23.82                 | 23.71                 | 25.12                | 25.00                | 24.30                | 17.91                | 19.06                | 19.24                | 19.73                |
| GSM 1900                                       | 512          | 18.64                 | 18.71                 | 18.61                | 18.37                | 18.11                | 16.13                | 17.74                | 17.46                | 17.76                |
|                                                | 661          | 18.35                 | 18.31                 | 18.46                | 18.84                | 18.65                | 16.21                | 17.88                | 17.63                | 17.99                |
|                                                | 810          | 18.55                 | 18.46                 | 18.39                | 18.78                | 18.57                | 16.70                | 17.71                | 17.47                | 17.74                |
| GSM 850                                        | Frame        | 23.40                 | 23.40                 | 25.01                | 25.07                | 24.32                | 17.80                | 18.81                | 18.57                | 18.82                |
| GSM 1900                                       | Avg.Targets: | 18.80                 | 18.80                 | 18.81                | 18.77                | 18.82                | 16.80                | 17.81                | 17.57                | 17.82                |

|                                             |                                |                                   |
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**Table 10-2**  
**Measured  $P_{max}$  for DSI = 1 (Head) for GSM 1900 Ant A**

| Maximum Burst-Averaged Output Power            |                     |                       |                       |                      |                      |                      |                      |                      |                      |                      |
|------------------------------------------------|---------------------|-----------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                                                |                     | Voice                 | GPRS/EDGE Data (GMSK) |                      |                      |                      | EDGE Data (8-PSK)    |                      |                      |                      |
| Band                                           | Channel             | GSM [dBm] CS (1 Slot) | GPRS [dBm] 1 Tx Slot  | GPRS [dBm] 2 Tx Slot | GPRS [dBm] 3 Tx Slot | GPRS [dBm] 4 Tx Slot | EDGE [dBm] 1 Tx Slot | EDGE [dBm] 2 Tx Slot | EDGE [dBm] 3 Tx Slot | EDGE [dBm] 4 Tx Slot |
| GSM 1900                                       | 512                 | 29.62                 | 29.58                 | 27.09                | 25.93                | 24.06                | 25.01                | 23.62                | 21.51                | 20.61                |
|                                                | 661                 | 29.43                 | 29.31                 | 27.19                | 26.19                | 24.12                | 25.18                | 23.73                | 21.64                | 20.91                |
|                                                | 810                 | 29.52                 | 29.36                 | 27.23                | 26.13                | 24.14                | 25.51                | 23.61                | 21.61                | 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 |
| GSM 1900                                       | 512                 | 20.42                 | 20.38                 | 20.90                | 21.50                | 20.88                | 15.81                | 17.43                | 17.08                | 17.43                |
|                                                | 661                 | 20.23                 | 20.11                 | 21.00                | 21.76                | 20.94                | 15.98                | 17.54                | 17.21                | 17.73                |
|                                                | 810                 | 20.32                 | 20.16                 | 21.04                | 21.70                | 20.96                | 16.31                | 17.42                | 17.18                | 17.45                |
| GSM 1900                                       | Frame Avg. Targets: | 20.60                 | 20.60                 | 21.51                | 22.07                | 21.32                | 16.80                | 17.81                | 17.57                | 17.82                |

**Table 10-3**  
**Measured  $P_{max}$  for DSI = 0 (Body-worn, Hotspot or Phablet) for GSM 850 Ant E**

| 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                 | 33.47                 | 33.48                 | 31.78                | 29.75                | 27.98                | 27.13                | 25.48                | 23.60                | 22.57                |
|                                                | 190                 | 33.47                 | 33.43                 | 31.75                | 29.77                | 28.01                | 27.00                | 25.48                | 23.40                | 22.52                |
|                                                | 251                 | 32.94                 | 32.86                 | 31.35                | 29.45                | 27.74                | 27.13                | 25.20                | 23.13                | 22.23                |
| 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                 | 24.27                 | 24.28                 | 25.59                | 25.32                | 24.80                | 17.93                | 19.29                | 19.17                | 19.39                |
|                                                | 190                 | 24.27                 | 24.23                 | 25.56                | 25.34                | 24.83                | 17.80                | 19.29                | 18.97                | 19.34                |
|                                                | 251                 | 23.74                 | 23.66                 | 25.16                | 25.02                | 24.56                | 17.93                | 19.01                | 18.70                | 19.05                |
| GSM 850                                        | Frame Avg. Targets: | 23.40                 | 23.40                 | 25.01                | 25.07                | 24.32                | 17.80                | 18.81                | 18.57                | 18.82                |

|                                             |                                |  |  |  |  |  |                                   |
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**Table 10-4**  
**Measured  $P_{limit}$  for DSI = 1 (Head) for GSM 850 Ant E**

| 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                 | 30.77                 | 30.81                 | 27.61                | 25.98                | 24.77                | 27.20                | 25.55                | 23.60                | 22.62                |
|                                                | 190                 | 30.66                 | 30.74                 | 27.59                | 25.91                | 24.44                | 27.19                | 25.46                | 23.43                | 22.58                |
|                                                | 251                 | 30.25                 | 30.34                 | 27.22                | 25.30                | 24.01                | 26.71                | 25.21                | 23.16                | 22.10                |
| 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                 | 21.57                 | 21.61                 | 21.42                | 21.55                | 21.59                | 18.00                | 19.36                | 19.17                | 19.44                |
|                                                | 190                 | 21.46                 | 21.54                 | 21.40                | 21.48                | 21.26                | 17.99                | 19.27                | 19.00                | 19.40                |
|                                                | 251                 | 21.05                 | 21.14                 | 21.03                | 20.87                | 20.83                | 17.51                | 19.02                | 18.73                | 18.92                |
| GSM 850                                        | Frame Avg. Targets: | 21.00                 | 21.00                 | 21.01                | 20.97                | 21.02                | 17.80                | 18.81                | 18.57                | 18.82                |

Note:

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

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



**Figure 10-1**  
**Power Measurement Setup**

|                                             |                                |                                   |
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## 10.2 UMTS Conducted Powers

Table 10-5  
Measured  $P_{max}$  for all DSI for UMTS 850 Ant A

Measured  $P_{limit}$  for DSI = 0 (Body-worn, Hotspot or Phablet) for UMTS 1750 & UMTS 1900 Ant A

| 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       | 24.12               | 24.42 | 24.61 | 19.46          | 19.50 | 19.58 | 18.38          | 18.21 | 18.24 | -             |
| 99                   |          | 12.2 kbps AMR       | 24.10               | 24.47 | 24.63 | 19.44          | 19.52 | 19.56 | 18.39          | 18.20 | 18.25 | -             |
| 6                    | HSDPA    | Subtest 1           | 23.10               | 23.42 | 23.60 | 18.43          | 18.49 | 18.57 | 17.36          | 17.19 | 17.20 | 0             |
| 6                    |          | Subtest 2           | 23.10               | 23.43 | 23.62 | 18.44          | 18.50 | 18.53 | 17.35          | 17.18 | 17.16 | 0             |
| 6                    |          | Subtest 3           | 22.60               | 22.92 | 23.09 | 17.94          | 17.99 | 18.03 | 16.85          | 16.68 | 16.68 | 0.5           |
| 6                    |          | Subtest 4           | 22.59               | 22.91 | 23.09 | 17.94          | 17.96 | 18.04 | 16.84          | 16.68 | 16.68 | 0.5           |
| 6                    | HSUPA    | Subtest 1           | 23.13               | 23.43 | 23.57 | 18.41          | 18.52 | 18.53 | 17.37          | 17.18 | 17.19 | 0             |
| 6                    |          | Subtest 2           | 21.10               | 21.44 | 21.59 | 16.40          | 16.50 | 16.53 | 15.35          | 15.18 | 15.18 | 2             |
| 6                    |          | Subtest 3           | 22.11               | 22.41 | 22.61 | 17.46          | 17.51 | 17.54 | 16.34          | 16.21 | 16.21 | 1             |
| 6                    |          | Subtest 4           | 21.06               | 21.45 | 21.59 | 16.46          | 16.49 | 16.57 | 15.36          | 15.17 | 15.20 | 2             |
| 6                    |          | Subtest 5           | 23.11               | 23.41 | 23.63 | 18.50          | 18.55 | 18.54 | 17.37          | 17.26 | 17.27 | 0             |
| 8                    | DC-HSDPA | Subtest 1           | 23.08               | 23.42 | 23.61 | 18.47          | 18.51 | 18.57 | 17.36          | 17.21 | 17.25 | 0             |
| 8                    |          | Subtest 2           | 23.10               | 23.42 | 23.62 | 18.46          | 18.53 | 18.54 | 17.32          | 17.17 | 17.24 | 0             |
| 8                    |          | Subtest 3           | 22.61               | 22.90 | 23.12 | 17.96          | 18.02 | 18.07 | 16.85          | 16.71 | 16.70 | 0.5           |
| 8                    |          | Subtest 4           | 22.60               | 22.90 | 23.11 | 17.98          | 17.99 | 18.01 | 16.85          | 16.72 | 16.76 | 0.5           |

Table 10-6  
Measured  $P_{max}$  for DSI = 1 (Head) for UMTS 1750 & UMTS 1900 Ant A

| 3GPP Release Version | Mode     | 3GPP 34.121 Subtest | AWS Band [dBm] |       |       | PCS Band [dBm] |       |       | 3GPP MPR [dB] |
|----------------------|----------|---------------------|----------------|-------|-------|----------------|-------|-------|---------------|
|                      |          |                     | 1312           | 1412  | 1513  | 9262           | 9400  | 9538  |               |
| 99                   | WCDMA    | 12.2 kbps RMC       | 22.77          | 22.76 | 22.81 | 22.69          | 22.57 | 22.68 | -             |
| 99                   |          | 12.2 kbps AMR       | 22.77          | 22.80 | 22.81 | 22.70          | 22.55 | 22.62 | -             |
| 6                    | HSDPA    | Subtest 1           | 21.93          | 21.97 | 22.07 | 22.02          | 21.85 | 21.89 | 0             |
| 6                    |          | Subtest 2           | 21.92          | 21.99 | 22.05 | 21.92          | 21.99 | 22.05 | 0             |
| 6                    |          | Subtest 3           | 21.44          | 21.49 | 21.53 | 21.44          | 21.49 | 21.53 | 0.5           |
| 6                    |          | Subtest 4           | 21.45          | 21.50 | 21.54 | 21.51          | 21.34 | 21.37 | 0.5           |
| 6                    | HSUPA    | Subtest 1           | 21.98          | 22.06 | 22.13 | 22.09          | 21.88 | 21.86 | 0             |
| 6                    |          | Subtest 2           | 20.01          | 20.01 | 20.06 | 20.02          | 19.80 | 19.81 | 2             |
| 6                    |          | Subtest 3           | 20.95          | 20.98 | 21.08 | 21.05          | 20.83 | 20.83 | 1             |
| 6                    |          | Subtest 4           | 19.93          | 20.02 | 20.06 | 19.99          | 19.84 | 19.79 | 2             |
| 6                    |          | Subtest 5           | 21.95          | 22.15 | 22.09 | 22.03          | 21.85 | 21.88 | 0             |
| 8                    | DC-HSDPA | Subtest 1           | 21.99          | 22.10 | 22.08 | 22.10          | 21.85 | 21.93 | 0             |
| 8                    |          | Subtest 2           | 21.96          | 22.05 | 22.06 | 22.03          | 21.80 | 21.83 | 0             |
| 8                    |          | Subtest 3           | 21.52          | 21.56 | 21.54 | 21.51          | 21.37 | 21.37 | 0.5           |
| 8                    |          | Subtest 4           | 21.48          | 21.49 | 21.54 | 21.53          | 21.35 | 21.42 | 0.5           |

|                                             |                                |                                   |
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**Table 10-7**  
**Measured  $P_{max}$  for DSI = 0 (Body-worn, Hotspot or Phablet) for UMTS 850 Ant E**

| 3GPP Release Version | Mode     | 3GPP 34.121 Subtest | Cellular Band [dBm] |       |       | 3GPP MPR [dB] |
|----------------------|----------|---------------------|---------------------|-------|-------|---------------|
|                      |          |                     | 4132                | 4183  | 4233  |               |
| 99                   | WCDMA    | 12.2 kbps RMC       | 24.25               | 24.58 | 24.78 | -             |
| 99                   |          | 12.2 kbps AMR       | 24.30               | 24.59 | 24.63 | -             |
| 6                    | HSDPA    | Subtest 1           | 23.28               | 23.57 | 23.74 | 0             |
| 6                    |          | Subtest 2           | 23.28               | 23.60 | 23.75 | 0             |
| 6                    |          | Subtest 3           | 22.76               | 23.07 | 23.23 | 0.5           |
| 6                    |          | Subtest 4           | 22.74               | 23.08 | 23.23 | 0.5           |
| 6                    | HSUPA    | Subtest 1           | 23.23               | 23.56 | 23.73 | 0             |
| 6                    |          | Subtest 2           | 21.19               | 21.49 | 21.71 | 2             |
| 6                    |          | Subtest 3           | 22.18               | 22.47 | 22.68 | 1             |
| 6                    |          | Subtest 4           | 21.16               | 21.49 | 21.71 | 2             |
| 6                    |          | Subtest 5           | 23.17               | 23.51 | 23.70 | 0             |
| 8                    | DC-HSDPA | Subtest 1           | 23.08               | 23.35 | 23.63 | 0             |
| 8                    |          | Subtest 2           | 23.09               | 23.37 | 23.60 | 0             |
| 8                    |          | Subtest 3           | 23.12               | 22.82 | 23.12 | 0.5           |
| 8                    |          | Subtest 4           | 22.57               | 22.85 | 23.09 | 0.5           |

**Table 10-8**  
**Measured  $P_{limit}$  for DSI = 1 (Head) for UMTS 850 Ant E**

| 3GPP Release Version | Mode     | 3GPP 34.121 Subtest | Cellular Band [dBm] |       |       | 3GPP MPR [dB] |
|----------------------|----------|---------------------|---------------------|-------|-------|---------------|
|                      |          |                     | 4132                | 4183  | 4233  |               |
| 99                   | WCDMA    | 12.2 kbps RMC       | 21.00               | 21.33 | 21.48 | -             |
| 99                   |          | 12.2 kbps AMR       | 21.04               | 21.36 | 21.49 | -             |
| 6                    | HSDPA    | Subtest 1           | 19.91               | 20.19 | 20.42 | 0             |
| 6                    |          | Subtest 2           | 19.92               | 20.21 | 20.44 | 0             |
| 6                    |          | Subtest 3           | 19.41               | 19.69 | 19.88 | 0.5           |
| 6                    |          | Subtest 4           | 19.42               | 19.69 | 19.91 | 0.5           |
| 6                    | HSUPA    | Subtest 1           | 19.89               | 20.18 | 20.42 | 0             |
| 6                    |          | Subtest 2           | 17.92               | 18.17 | 18.41 | 2             |
| 6                    |          | Subtest 3           | 18.88               | 19.16 | 19.41 | 1             |
| 6                    |          | Subtest 4           | 17.89               | 18.18 | 18.39 | 2             |
| 6                    |          | Subtest 5           | 19.93               | 20.19 | 20.41 | 0             |
| 8                    | DC-HSDPA | Subtest 1           | 19.87               | 20.15 | 20.42 | 0             |
| 8                    |          | Subtest 2           | 19.88               | 20.17 | 20.40 | 0             |
| 8                    |          | Subtest 3           | 19.38               | 19.64 | 19.89 | 0.5           |
| 8                    |          | Subtest 4           | 19.37               | 19.64 | 19.92 | 0.5           |

|                                             |                                |                                   |
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#### 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 10-2**  
**Power Measurement Setup**

|                                                    |                                       |                                          |
|----------------------------------------------------|---------------------------------------|------------------------------------------|
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## 10.3 LTE Conducted Powers

Note: Per FCC KDB Publication 941225 D05v02r05, LTE SAR for the lower bandwidths was not required for testing 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. Lower bandwidth conducted powers for all LTE bands can be found in LTE and NR Lower Bandwidth RF Conducted Powers Appendix.

Note: Some bands do 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.

### LTE Carrier Aggregation Notes:

1. This device supports uplink carrier aggregation for LTE CA\_48C, 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.

### 10.3.1 LTE Band 12

**Table 10-9**  
**LTE Band 12 Ant A Measured  $P_{Max}$  for all DSI - 10 MHz Bandwidth**

| LTE Band 12<br>10 MHz Bandwidth |         |           |                          |                              |          |
|---------------------------------|---------|-----------|--------------------------|------------------------------|----------|
| Modulation                      | RB Size | RB Offset | Mid Channel              | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                 |         |           | 23095<br>(707.5 MHz)     |                              |          |
|                                 |         |           | Conducted Power<br>[dBm] |                              |          |
| QPSK                            | 1       | 0         | 24.07                    | 0                            | 0        |
|                                 | 1       | 25        | <b>24.27</b>             |                              | 0        |
|                                 | 1       | 49        | 24.18                    |                              | 0        |
|                                 | 25      | 0         | 23.05                    | 0-1                          | 1        |
|                                 | 25      | 12        | <b>23.16</b>             |                              | 1        |
|                                 | 25      | 25        | 23.15                    |                              | 1        |
| 16QAM                           | 50      | 0         | 23.04                    | 0-1                          | 1        |
|                                 | 1       | 0         | 23.18                    |                              | 1        |
|                                 | 1       | 25        | 23.32                    |                              | 1        |
|                                 | 1       | 49        | 23.12                    | 0-2                          | 1        |
|                                 | 25      | 0         | 22.04                    |                              | 2        |
|                                 | 25      | 12        | 22.15                    |                              | 2        |
| 64QAM                           | 25      | 25        | 22.14                    | 0-2                          | 2        |
|                                 | 50      | 0         | 22.07                    |                              | 2        |
|                                 | 1       | 0         | 22.32                    |                              | 2        |
|                                 | 1       | 25        | 22.38                    | 0-3                          | 2        |
|                                 | 1       | 49        | 22.45                    |                              | 2        |
|                                 | 25      | 0         | 21.08                    |                              | 3        |
| 256QAM                          | 25      | 12        | 21.13                    | 0-5                          | 3        |
|                                 | 25      | 25        | 21.15                    |                              | 3        |
|                                 | 50      | 0         | 21.07                    |                              | 3        |
|                                 | 1       | 0         | 19.09                    | 0-5                          | 5        |
|                                 | 1       | 25        | 19.30                    |                              | 5        |
|                                 | 1       | 49        | 19.18                    |                              | 5        |
|                                 | 25      | 0         | 19.05                    |                              | 5        |
|                                 | 25      | 12        | 19.14                    |                              | 5        |
|                                 | 25      | 25        | 19.14                    |                              | 5        |
|                                 | 50      | 0         | 19.01                    |                              | 5        |

|                                             |                                |                                   |
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**Table 10-10**
**LTE Band 12 Ant E Measured  $P_{Max}$  for DSI = 0 (Body-worn, Hotspot or Phablet) - 10 MHz Bandwidth**

| LTE Band 12<br>10 MHz Bandwidth |         |           |                          |                              |          |
|---------------------------------|---------|-----------|--------------------------|------------------------------|----------|
| Modulation                      | RB Size | RB Offset | Mid Channel              | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                 |         |           | 23095<br>(707.5 MHz)     |                              |          |
|                                 |         |           | Conducted Power<br>[dBm] |                              |          |
| QPSK                            | 1       | 0         | 24.06                    | 0                            | 0        |
|                                 | 1       | 25        | 24.15                    |                              | 0        |
|                                 | 1       | 49        | 24.12                    |                              | 0        |
|                                 | 25      | 0         | 23.19                    | 0-1                          | 1        |
|                                 | 25      | 12        | 23.26                    |                              | 1        |
|                                 | 25      | 25        | 23.29                    |                              | 1        |
|                                 | 50      | 0         | 23.18                    |                              | 1        |
| 16QAM                           | 1       | 0         | 23.37                    | 0-1                          | 1        |
|                                 | 1       | 25        | 23.46                    |                              | 1        |
|                                 | 1       | 49        | 23.27                    |                              | 1        |
|                                 | 25      | 0         | 22.18                    | 0-2                          | 2        |
|                                 | 25      | 12        | 22.31                    |                              | 2        |
|                                 | 25      | 25        | 22.27                    |                              | 2        |
|                                 | 50      | 0         | 22.18                    |                              | 2        |
| 64QAM                           | 1       | 0         | 22.34                    | 0-2                          | 2        |
|                                 | 1       | 25        | 22.54                    |                              | 2        |
|                                 | 1       | 49        | 22.39                    |                              | 2        |
|                                 | 25      | 0         | 21.18                    | 0-3                          | 3        |
|                                 | 25      | 12        | 21.31                    |                              | 3        |
|                                 | 25      | 25        | 21.26                    |                              | 3        |
|                                 | 50      | 0         | 21.15                    |                              | 3        |
| 256QAM                          | 1       | 0         | 19.19                    | 0-5                          | 5        |
|                                 | 1       | 25        | 19.40                    |                              | 5        |
|                                 | 1       | 49        | 19.33                    |                              | 5        |
|                                 | 25      | 0         | 19.14                    |                              | 5        |
|                                 | 25      | 12        | 19.26                    |                              | 5        |
|                                 | 25      | 25        | 19.24                    |                              | 5        |
|                                 | 50      | 0         | 19.15                    |                              | 5        |

**Table 10-11**
**LTE Band 12 Ant E Measured  $P_{Limit}$  for DSI = 1 (Head) - 10 MHz Bandwidth**

| LTE Band 12<br>10 MHz Bandwidth |         |           |                          |                              |          |
|---------------------------------|---------|-----------|--------------------------|------------------------------|----------|
| Modulation                      | RB Size | RB Offset | Mid Channel              | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                 |         |           | 23095<br>(707.5 MHz)     |                              |          |
|                                 |         |           | Conducted Power<br>[dBm] |                              |          |
| QPSK                            | 1       | 0         | 21.28                    | 0                            | 0        |
|                                 | 1       | 25        | 21.36                    |                              | 0        |
|                                 | 1       | 49        | 21.45                    |                              | 0        |
|                                 | 25      | 0         | 21.39                    | 0-1                          | 0        |
|                                 | 25      | 12        | 21.51                    |                              | 0        |
|                                 | 25      | 25        | 21.49                    |                              | 0        |
|                                 | 50      | 0         | 21.43                    |                              | 0        |
| 16QAM                           | 1       | 0         | 21.56                    | 0-1                          | 0        |
|                                 | 1       | 25        | 21.60                    |                              | 0        |
|                                 | 1       | 49        | 21.62                    |                              | 0        |
|                                 | 25      | 0         | 21.42                    | 0-2                          | 0        |
|                                 | 25      | 12        | 21.54                    |                              | 0        |
|                                 | 25      | 25        | 21.51                    |                              | 0        |
|                                 | 50      | 0         | 21.44                    |                              | 0        |
| 64QAM                           | 1       | 0         | 21.60                    | 0-2                          | 0        |
|                                 | 1       | 25        | 21.80                    |                              | 0        |
|                                 | 1       | 49        | 21.69                    |                              | 0        |
|                                 | 25      | 0         | 21.18                    | 0-3                          | 0.2      |
|                                 | 25      | 12        | 21.28                    |                              | 0.2      |
|                                 | 25      | 25        | 21.26                    |                              | 0.2      |
|                                 | 50      | 0         | 21.17                    |                              | 0.2      |
| 256QAM                          | 1       | 0         | 19.21                    | 0-5                          | 2.2      |
|                                 | 1       | 25        | 19.40                    |                              | 2.2      |
|                                 | 1       | 49        | 19.25                    |                              | 2.2      |
|                                 | 25      | 0         | 19.12                    |                              | 2.2      |
|                                 | 25      | 12        | 19.23                    |                              | 2.2      |
|                                 | 25      | 25        | 19.26                    |                              | 2.2      |
|                                 | 50      | 0         | 19.13                    |                              | 2.2      |

|                                             |                                |                                   |
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## 10.3.2 LTE Band 13

**Table 10-12**  
**LTE Band 13 Ant A Measured  $P_{Max}$  for all DSI - 10 MHz Bandwidth**

| LTE Band 13<br>10 MHz Bandwidth |         |           |                                                  |                              |          |
|---------------------------------|---------|-----------|--------------------------------------------------|------------------------------|----------|
| Modulation                      | RB Size | RB Offset | Mid Channel                                      | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                 |         |           | 23230<br>(782.0 MHz)<br>Conducted Power<br>[dBm] |                              |          |
| QPSK                            | 1       | 0         | 24.25                                            | 0                            | 0        |
|                                 | 1       | 25        | 24.28                                            |                              | 0        |
|                                 | 1       | 49        | 24.24                                            |                              | 0        |
|                                 | 25      | 0         | 23.43                                            | 0-1                          | 1        |
|                                 | 25      | 12        | 23.44                                            |                              | 1        |
|                                 | 25      | 25        | 23.45                                            |                              | 1        |
|                                 | 50      | 0         | 23.38                                            |                              | 1        |
| 16QAM                           | 1       | 0         | 23.51                                            | 0-1                          | 1        |
|                                 | 1       | 25        | 23.67                                            |                              | 1        |
|                                 | 1       | 49        | 23.63                                            |                              | 1        |
|                                 | 25      | 0         | 22.44                                            | 0-2                          | 2        |
|                                 | 25      | 12        | 22.44                                            |                              | 2        |
|                                 | 25      | 25        | 22.48                                            |                              | 2        |
|                                 | 50      | 0         | 22.41                                            |                              | 2        |
| 64QAM                           | 1       | 0         | 22.61                                            | 0-2                          | 2        |
|                                 | 1       | 25        | 22.65                                            |                              | 2        |
|                                 | 1       | 49        | 22.71                                            |                              | 2        |
|                                 | 25      | 0         | 21.46                                            | 0-3                          | 3        |
|                                 | 25      | 12        | 21.45                                            |                              | 3        |
|                                 | 25      | 25        | 21.46                                            |                              | 3        |
|                                 | 50      | 0         | 21.39                                            |                              | 3        |
| 256QAM                          | 1       | 0         | 19.68                                            | 0-5                          | 5        |
|                                 | 1       | 25        | 19.66                                            |                              | 5        |
|                                 | 1       | 49        | 19.53                                            |                              | 5        |
|                                 | 25      | 0         | 19.39                                            |                              | 5        |
|                                 | 25      | 12        | 19.44                                            |                              | 5        |
|                                 | 25      | 25        | 19.40                                            |                              | 5        |
|                                 | 50      | 0         | 19.37                                            |                              | 5        |

**Table 10-13**  
**LTE Band 13 Ant E Measured  $P_{Max}$  for DSI = 0 (Body-worn, Hotspot or Phablet) - 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         | 24.40                                            | 0                            | 0        |
|                                 | 1       | 25        | 24.52                                            |                              | 0        |
|                                 | 1       | 49        | 24.44                                            |                              | 0        |
|                                 | 25      | 0         | 23.53                                            | 0-1                          | 1        |
|                                 | 25      | 12        | 23.57                                            |                              | 1        |
|                                 | 25      | 25        | 23.59                                            |                              | 1        |
|                                 | 50      | 0         | 23.55                                            |                              | 1        |
| 16QAM                           | 1       | 0         | 23.61                                            | 0-1                          | 1        |
|                                 | 1       | 25        | 23.87                                            |                              | 1        |
|                                 | 1       | 49        | 23.76                                            |                              | 1        |
|                                 | 25      | 0         | 22.57                                            | 0-2                          | 2        |
|                                 | 25      | 12        | 22.62                                            |                              | 2        |
|                                 | 25      | 25        | 22.63                                            |                              | 2        |
|                                 | 50      | 0         | 22.55                                            |                              | 2        |
| 64QAM                           | 1       | 0         | 22.72                                            | 0-2                          | 2        |
|                                 | 1       | 25        | 22.85                                            |                              | 2        |
|                                 | 1       | 49        | 22.75                                            |                              | 2        |
|                                 | 25      | 0         | 21.57                                            | 0-3                          | 3        |
|                                 | 25      | 12        | 21.59                                            |                              | 3        |
|                                 | 25      | 25        | 21.61                                            |                              | 3        |
|                                 | 50      | 0         | 21.55                                            |                              | 3        |
| 256QAM                          | 1       | 0         | 19.85                                            | 0-5                          | 5        |
|                                 | 1       | 25        | 19.71                                            |                              | 5        |
|                                 | 1       | 49        | 19.63                                            |                              | 5        |
|                                 | 25      | 0         | 19.47                                            |                              | 5        |
|                                 | 25      | 12        | 19.54                                            |                              | 5        |
|                                 | 25      | 25        | 19.62                                            |                              | 5        |
|                                 | 50      | 0         | 19.50                                            |                              | 5        |

|                                             |                                |                                   |
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**Table 10-14**  
**LTE Band 13 Ant E Measured  $P_{Limit}$  for DSI = 1 (Head) - 10 MHz Bandwidth**

| LTE Band 13<br>10 MHz Bandwidth |         |           |                          |                              |          |
|---------------------------------|---------|-----------|--------------------------|------------------------------|----------|
| Modulation                      | RB Size | RB Offset | Mid Channel              | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                 |         |           | 23230<br>(782.0 MHz)     |                              |          |
|                                 |         |           | Conducted Power<br>[dBm] |                              |          |
| QPSK                            | 1       | 0         | 21.97                    | 0                            | 0        |
|                                 | 1       | 25        | <b>22.05</b>             |                              | 0        |
|                                 | 1       | 49        | 21.91                    |                              | 0        |
|                                 | 25      | 0         | 21.83                    | 0-1                          | 0        |
|                                 | 25      | 12        | 21.84                    |                              | 0        |
|                                 | 25      | 25        | <b>21.85</b>             |                              | 0        |
|                                 | 50      | 0         | 21.83                    |                              | 0        |
| 16QAM                           | 1       | 0         | 22.04                    | 0-1                          | 0        |
|                                 | 1       | 25        | 22.27                    |                              | 0        |
|                                 | 1       | 49        | 22.24                    |                              | 0        |
|                                 | 25      | 0         | 21.89                    | 0-2                          | 0        |
|                                 | 25      | 12        | 21.91                    |                              | 0        |
|                                 | 25      | 25        | 21.94                    |                              | 0        |
|                                 | 50      | 0         | 21.83                    |                              | 0        |
| 64QAM                           | 1       | 0         | 22.10                    | 0-2                          | 0        |
|                                 | 1       | 25        | 22.20                    |                              | 0        |
|                                 | 1       | 49        | 22.06                    |                              | 0        |
|                                 | 25      | 0         | 21.58                    | 0-3                          | 0.5      |
|                                 | 25      | 12        | 21.55                    |                              | 0.5      |
|                                 | 25      | 25        | 21.61                    |                              | 0.5      |
|                                 | 50      | 0         | 21.55                    |                              | 0.5      |
| 256QAM                          | 1       | 0         | 19.51                    | 0-5                          | 2.5      |
|                                 | 1       | 25        | 19.84                    |                              | 2.5      |
|                                 | 1       | 49        | 19.65                    |                              | 2.5      |
|                                 | 25      | 0         | 19.51                    |                              | 2.5      |
|                                 | 25      | 12        | 19.55                    |                              | 2.5      |
|                                 | 25      | 25        | 19.61                    |                              | 2.5      |
|                                 | 50      | 0         | 19.52                    |                              | 2.5      |

### 10.3.3 LTE Band 26

**Table 10-15**  
**LTE Band 26 Ant A Measured  $P_{Max}$  for all DSI - 15 MHz Bandwidth**

| LTE Band 26 (Cell)<br>15 MHz Bandwidth |         |           |                          |                              |          |
|----------------------------------------|---------|-----------|--------------------------|------------------------------|----------|
| Modulation                             | RB Size | RB Offset | Mid Channel              | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                        |         |           | 26865<br>(831.5 MHz)     |                              |          |
|                                        |         |           | Conducted Power<br>[dBm] |                              |          |
| QPSK                                   | 1       | 0         | 24.29                    | 0                            | 0        |
|                                        | 1       | 36        | <b>24.33</b>             |                              | 0        |
|                                        | 1       | 74        | 24.16                    |                              | 0        |
|                                        | 36      | 0         | 23.18                    | 0-1                          | 1        |
|                                        | 36      | 18        | 23.17                    |                              | 1        |
|                                        | 36      | 37        | <b>23.21</b>             |                              | 1        |
|                                        | 75      | 0         | 23.15                    |                              | 1        |
| 16QAM                                  | 1       | 0         | 23.33                    | 0-1                          | 1        |
|                                        | 1       | 36        | 23.41                    |                              | 1        |
|                                        | 1       | 74        | 23.32                    |                              | 1        |
|                                        | 36      | 0         | 22.24                    | 0-2                          | 2        |
|                                        | 36      | 18        | 22.23                    |                              | 2        |
|                                        | 36      | 37        | 22.24                    |                              | 2        |
|                                        | 75      | 0         | 22.27                    |                              | 2        |
| 64QAM                                  | 1       | 0         | 22.37                    | 0-2                          | 2        |
|                                        | 1       | 36        | 22.29                    |                              | 2        |
|                                        | 1       | 74        | 22.18                    |                              | 2        |
|                                        | 36      | 0         | 21.27                    | 0-3                          | 3        |
|                                        | 36      | 18        | 21.24                    |                              | 3        |
|                                        | 36      | 37        | 21.27                    |                              | 3        |
|                                        | 75      | 0         | 21.23                    |                              | 3        |
| 256QAM                                 | 1       | 0         | 19.45                    | 0-5                          | 5        |
|                                        | 1       | 36        | 19.52                    |                              | 5        |
|                                        | 1       | 74        | 19.36                    |                              | 5        |
|                                        | 36      | 0         | 19.21                    |                              | 5        |
|                                        | 36      | 18        | 19.24                    |                              | 5        |
|                                        | 36      | 37        | 19.23                    |                              | 5        |
|                                        | 75      | 0         | 19.26                    |                              | 5        |

|                                             |                                |                                   |
|---------------------------------------------|--------------------------------|-----------------------------------|
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**Table 10-16**
**LTE Band 26 Ant E Measured  $P_{Max}$  for DSI = 0 (Body-worn, Hotspot or Phablet) - 15 MHz Bandwidth**

| LTE Band 26 (Cell)<br>15 MHz Bandwidth |         |           |                                                  |                              |          |
|----------------------------------------|---------|-----------|--------------------------------------------------|------------------------------|----------|
| Modulation                             | RB Size | RB Offset | Mid Channel                                      | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                        |         |           | 26865<br>(831.5 MHz)<br>Conducted Power<br>[dBm] |                              |          |
| QPSK                                   | 1       | 0         | 24.11                                            | 0                            | 0        |
|                                        | 1       | 36        | 24.23                                            |                              | 0        |
|                                        | 1       | 74        | 24.17                                            |                              | 0        |
|                                        | 36      | 0         | 23.30                                            | 0-1                          | 1        |
|                                        | 36      | 18        | 23.26                                            |                              | 1        |
|                                        | 36      | 37        | 23.22                                            |                              | 1        |
|                                        | 75      | 0         | 23.25                                            |                              | 1        |
| 16QAM                                  | 1       | 0         | 23.31                                            | 0-1                          | 1        |
|                                        | 1       | 36        | 23.51                                            |                              | 1        |
|                                        | 1       | 74        | 23.32                                            |                              | 1        |
|                                        | 36      | 0         | 22.31                                            | 0-2                          | 2        |
|                                        | 36      | 18        | 22.32                                            |                              | 2        |
|                                        | 36      | 37        | 22.33                                            |                              | 2        |
|                                        | 75      | 0         | 22.32                                            |                              | 2        |
| 64QAM                                  | 1       | 0         | 22.52                                            | 0-2                          | 2        |
|                                        | 1       | 36        | 22.61                                            |                              | 2        |
|                                        | 1       | 74        | 22.49                                            |                              | 2        |
|                                        | 36      | 0         | 21.32                                            | 0-3                          | 3        |
|                                        | 36      | 18        | 21.27                                            |                              | 3        |
|                                        | 36      | 37        | 21.32                                            |                              | 3        |
|                                        | 75      | 0         | 21.35                                            |                              | 3        |
| 256QAM                                 | 1       | 0         | 19.41                                            | 0-5                          | 5        |
|                                        | 1       | 36        | 19.53                                            |                              | 5        |
|                                        | 1       | 74        | 19.46                                            |                              | 5        |
|                                        | 36      | 0         | 19.28                                            |                              | 5        |
|                                        | 36      | 18        | 19.27                                            |                              | 5        |
|                                        | 36      | 37        | 19.31                                            |                              | 5        |
|                                        | 75      | 0         | 19.32                                            |                              | 5        |

**Table 10-17**
**LTE Band 26 Ant E Measured  $P_{Limit}$  for DSI = 1 (Head) - 15 MHz Bandwidth**

| LTE Band 26 (Cell)<br>15 MHz Bandwidth |         |           |                                                  |                              |          |
|----------------------------------------|---------|-----------|--------------------------------------------------|------------------------------|----------|
| Modulation                             | RB Size | RB Offset | Mid Channel                                      | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                        |         |           | 26865<br>(831.5 MHz)<br>Conducted Power<br>[dBm] |                              |          |
| QPSK                                   | 1       | 0         | 20.90                                            | 0                            | 0        |
|                                        | 1       | 36        | 20.97                                            |                              | 0        |
|                                        | 1       | 74        | 20.87                                            |                              | 0        |
|                                        | 36      | 0         | 21.01                                            | 0-1                          | 0        |
|                                        | 36      | 18        | 21.00                                            |                              | 0        |
|                                        | 36      | 37        | 21.00                                            |                              | 0        |
|                                        | 75      | 0         | 20.93                                            |                              | 0        |
| 16QAM                                  | 1       | 0         | 21.10                                            | 0-1                          | 0        |
|                                        | 1       | 36        | 21.23                                            |                              | 0        |
|                                        | 1       | 74        | 21.04                                            |                              | 0        |
|                                        | 36      | 0         | 21.05                                            | 0-2                          | 0        |
|                                        | 36      | 18        | 21.07                                            |                              | 0        |
|                                        | 36      | 37        | 21.04                                            |                              | 0        |
|                                        | 75      | 0         | 21.07                                            |                              | 0        |
| 64QAM                                  | 1       | 0         | 21.10                                            | 0-2                          | 0        |
|                                        | 1       | 36        | 21.31                                            |                              | 0        |
|                                        | 1       | 74        | 21.16                                            |                              | 0        |
|                                        | 36      | 0         | 20.94                                            | 0-3                          | 0        |
|                                        | 36      | 18        | 21.07                                            |                              | 0        |
|                                        | 36      | 37        | 21.08                                            |                              | 0        |
|                                        | 75      | 0         | 21.11                                            |                              | 0        |
| 256QAM                                 | 1       | 0         | 19.42                                            | 0-5                          | 2        |
|                                        | 1       | 36        | 19.48                                            |                              | 2        |
|                                        | 1       | 74        | 19.29                                            |                              | 2        |
|                                        | 36      | 0         | 19.26                                            |                              | 2        |
|                                        | 36      | 18        | 19.24                                            |                              | 2        |
|                                        | 36      | 37        | 19.26                                            |                              | 2        |
|                                        | 75      | 0         | 19.32                                            |                              | 2        |

|                                             |                                |                                   |
|---------------------------------------------|--------------------------------|-----------------------------------|
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## 10.3.4 LTE Band 66

**Table 10-18**  
**LTE Band 66 (AWS) Ant A Measured  $P_{Limit}$  for DSI = 0 (Body-worn, Hotspot or Phablet)**  
**- 20 MHz Bandwidth**

| LTE Band 66 (AWS)<br>20 MHz Bandwidth |         |           |                        |                        |                        |                              |          |
|---------------------------------------|---------|-----------|------------------------|------------------------|------------------------|------------------------------|----------|
| Modulation                            | RB Size | RB Offset | Low Channel            | Mid Channel            | High Channel           | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                       |         |           | 132072<br>(1720.0 MHz) | 132322<br>(1745.0 MHz) | 132572<br>(1770.0 MHz) |                              |          |
|                                       |         |           | Conducted Power [dBm]  |                        |                        |                              |          |
| QPSK                                  | 1       | 0         | 19.24                  | 19.24                  | 19.39                  | 0                            | 0        |
|                                       | 1       | 50        | 19.30                  | 19.24                  | 19.36                  |                              | 0        |
|                                       | 1       | 99        | 19.24                  | 19.13                  | 19.30                  |                              | 0        |
|                                       | 50      | 0         | 19.28                  | 19.32                  | 19.38                  | 0-1                          | 0        |
|                                       | 50      | 25        | 19.36                  | 19.33                  | 19.30                  |                              | 0        |
|                                       | 50      | 50        | 19.31                  | 19.31                  | 19.29                  |                              | 0        |
|                                       | 100     | 0         | 19.33                  | 19.33                  | 19.36                  |                              | 0        |
| 16QAM                                 | 1       | 0         | 19.45                  | 19.64                  | 19.61                  | 0-1                          | 0        |
|                                       | 1       | 50        | 19.50                  | 19.78                  | 19.61                  |                              | 0        |
|                                       | 1       | 99        | 19.41                  | 19.50                  | 19.56                  |                              | 0        |
|                                       | 50      | 0         | 19.32                  | 19.35                  | 19.31                  | 0-2                          | 0        |
|                                       | 50      | 25        | 19.37                  | 19.43                  | 19.32                  |                              | 0        |
|                                       | 50      | 50        | 19.33                  | 19.34                  | 19.33                  |                              | 0        |
|                                       | 100     | 0         | 19.38                  | 19.39                  | 19.24                  |                              | 0        |
| 64QAM                                 | 1       | 0         | 19.48                  | 19.63                  | 19.48                  | 0-2                          | 0        |
|                                       | 1       | 50        | 19.48                  | 19.58                  | 19.53                  |                              | 0        |
|                                       | 1       | 99        | 19.34                  | 19.43                  | 19.51                  |                              | 0        |
|                                       | 50      | 0         | 19.26                  | 19.33                  | 19.30                  | 0-3                          | 0        |
|                                       | 50      | 25        | 19.38                  | 19.38                  | 19.27                  |                              | 0        |
|                                       | 50      | 50        | 19.32                  | 19.30                  | 19.31                  |                              | 0        |
|                                       | 100     | 0         | 19.34                  | 19.35                  | 19.25                  |                              | 0        |
| 256QAM                                | 1       | 0         | 18.52                  | 18.51                  | 18.52                  | 0-5                          | 0.5      |
|                                       | 1       | 50        | 18.62                  | 18.63                  | 18.66                  |                              | 0.5      |
|                                       | 1       | 99        | 18.60                  | 18.50                  | 18.44                  |                              | 0.5      |
|                                       | 50      | 0         | 18.42                  | 18.39                  | 18.39                  |                              | 0.5      |
|                                       | 50      | 25        | 18.47                  | 18.47                  | 18.40                  |                              | 0.5      |
|                                       | 50      | 50        | 18.40                  | 18.44                  | 18.40                  |                              | 0.5      |
|                                       | 100     | 0         | 18.45                  | 18.43                  | 18.37                  |                              | 0.5      |

**Table 10-19**  
**LTE Band 66 (AWS) Ant A Measured  $P_{Max}$  for DSI = 1 (Head) - 20 MHz Bandwidth**

| LTE Band 66 (AWS)<br>20 MHz Bandwidth |         |           |                        |                        |                        |                              |          |
|---------------------------------------|---------|-----------|------------------------|------------------------|------------------------|------------------------------|----------|
| Modulation                            | RB Size | RB Offset | Low Channel            | Mid Channel            | High Channel           | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                       |         |           | 132072<br>(1720.0 MHz) | 132322<br>(1745.0 MHz) | 132572<br>(1770.0 MHz) |                              |          |
|                                       |         |           | Conducted Power [dBm]  |                        |                        |                              |          |
| QPSK                                  | 1       | 0         | 23.36                  | 23.44                  | 23.54                  | 0                            | 0        |
|                                       | 1       | 50        | 23.42                  | 23.47                  | 23.48                  |                              | 0        |
|                                       | 1       | 99        | 23.39                  | 23.36                  | 23.51                  |                              | 0        |
|                                       | 50      | 0         | 22.39                  | 22.43                  | 22.50                  | 0-1                          | 1        |
|                                       | 50      | 25        | 22.46                  | 22.45                  | 22.45                  |                              | 1        |
|                                       | 50      | 50        | 22.42                  | 22.43                  | 22.47                  |                              | 1        |
|                                       | 100     | 0         | 22.47                  | 22.47                  | 22.48                  |                              | 1        |
| 16QAM                                 | 1       | 0         | 22.64                  | 22.74                  | 22.71                  | 0-1                          | 1        |
|                                       | 1       | 50        | 22.66                  | 22.73                  | 22.70                  |                              | 1        |
|                                       | 1       | 99        | 22.65                  | 22.48                  | 22.69                  |                              | 1        |
|                                       | 50      | 0         | 21.39                  | 21.46                  | 21.45                  | 0-2                          | 2        |
|                                       | 50      | 25        | 21.48                  | 21.52                  | 21.45                  |                              | 2        |
|                                       | 50      | 50        | 21.46                  | 21.47                  | 21.46                  |                              | 2        |
|                                       | 100     | 0         | 21.45                  | 21.52                  | 21.40                  |                              | 2        |
| 64QAM                                 | 1       | 0         | 21.62                  | 21.58                  | 21.75                  | 0-2                          | 2        |
|                                       | 1       | 50        | 21.73                  | 21.72                  | 21.73                  |                              | 2        |
|                                       | 1       | 99        | 21.56                  | 21.55                  | 21.66                  |                              | 2        |
|                                       | 50      | 0         | 20.37                  | 20.46                  | 20.40                  | 0-3                          | 3        |
|                                       | 50      | 25        | 20.46                  | 20.51                  | 20.40                  |                              | 3        |
|                                       | 50      | 50        | 20.41                  | 20.44                  | 20.43                  |                              | 3        |
|                                       | 100     | 0         | 20.43                  | 20.51                  | 20.39                  |                              | 3        |
| 256QAM                                | 1       | 0         | 18.59                  | 18.62                  | 18.57                  | 0-5                          | 5        |
|                                       | 1       | 50        | 18.48                  | 18.75                  | 18.61                  |                              | 5        |
|                                       | 1       | 99        | 18.46                  | 18.45                  | 18.52                  |                              | 5        |
|                                       | 50      | 0         | 18.35                  | 18.46                  | 18.44                  |                              | 5        |
|                                       | 50      | 25        | 18.45                  | 18.50                  | 18.39                  |                              | 5        |
|                                       | 50      | 50        | 18.43                  | 18.43                  | 18.42                  |                              | 5        |
|                                       | 100     | 0         | 18.43                  | 18.49                  | 18.37                  |                              | 5        |

|                                                    |                                       |                                          |
|----------------------------------------------------|---------------------------------------|------------------------------------------|
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**Table 10-20**  
**LTE Band 66 (AWS) Ant F Measured  $P_{Limit}$  for DSI = 0 (Body-worn, Hotspot or Phablet)**  
**- 20 MHz Bandwidth**

| LTE Band 66 (AWS)<br>20 MHz Bandwidth |         |           |                        |                        |                        |                              |          |     |
|---------------------------------------|---------|-----------|------------------------|------------------------|------------------------|------------------------------|----------|-----|
| Modulation                            | RB Size | RB Offset | Low Channel            | Mid Channel            | High Channel           | MPR Allowed per<br>3GPP [dB] | MPR [dB] |     |
|                                       |         |           | 132072<br>(1720.0 MHz) | 132322<br>(1745.0 MHz) | 132572<br>(1770.0 MHz) |                              |          |     |
|                                       |         |           | Conducted Power [dBm]  |                        |                        |                              |          |     |
| QPSK                                  | 1       | 0         | 20.82                  | 20.76                  | 20.93                  | 0                            | 0        |     |
|                                       | 1       | 50        | 20.85                  | 20.74                  | 20.92                  |                              | 0        |     |
|                                       | 1       | 99        | 20.87                  | 20.73                  | 20.91                  |                              | 0        |     |
|                                       | 50      | 0         | 20.89                  | 20.89                  | 20.96                  | 0-1                          | 0        |     |
|                                       | 50      | 25        | 20.92                  | 20.91                  | 20.92                  |                              | 0        |     |
|                                       | 50      | 50        | 20.90                  | 20.91                  | 20.91                  |                              | 0        |     |
| 16QAM                                 | 100     | 0         | 20.91                  | 20.87                  | 20.90                  | 0-1                          | 0        |     |
|                                       | 1       | 0         | 21.01                  | 21.12                  | 21.06                  |                              | 0        |     |
|                                       | 1       | 50        | 20.99                  | 21.33                  | 21.23                  |                              | 0        |     |
|                                       | 1       | 99        | 21.09                  | 21.05                  | 21.13                  | 0-2                          | 0        |     |
|                                       | 50      | 0         | 20.90                  | 20.86                  | 20.83                  |                              | 0        |     |
|                                       | 50      | 25        | 20.92                  | 20.93                  | 20.97                  |                              | 0        |     |
| 64QAM                                 | 50      | 50        | 20.87                  | 20.93                  | 20.91                  | 0-2                          | 0        |     |
|                                       | 100     | 0         | 20.88                  | 20.90                  | 20.90                  |                              | 0        |     |
|                                       | 1       | 0         | 21.06                  | 21.10                  | 21.00                  |                              | 0-2      | 0   |
|                                       | 1       | 50        | 21.02                  | 21.22                  | 21.12                  | 0                            |          |     |
|                                       | 1       | 99        | 21.00                  | 21.03                  | 21.09                  | 0                            |          |     |
|                                       | 50      | 0         | 20.11                  | 20.07                  | 20.04                  | 0-3                          | 0.5      |     |
| 50                                    | 25      | 20.13     | 20.17                  | 20.12                  | 0.5                    |                              |          |     |
| 50                                    | 50      | 20.09     | 20.11                  | 20.12                  | 0.5                    |                              |          |     |
| 256QAM                                | 100     | 0         | 20.10                  | 20.10                  | 20.15                  | 0-3                          | 0.5      |     |
|                                       | 1       | 0         | 18.16                  | 18.27                  | 18.18                  |                              | 0-5      | 2.5 |
|                                       | 1       | 50        | 18.24                  | 18.31                  | 18.20                  |                              |          | 2.5 |
|                                       | 1       | 99        | 18.30                  | 18.35                  | 18.27                  | 2.5                          |          |     |
|                                       | 50      | 0         | 18.10                  | 18.09                  | 18.03                  | 2.5                          |          |     |
|                                       | 50      | 25        | 18.12                  | 18.16                  | 18.16                  | 2.5                          |          |     |
| 50                                    | 50      | 18.10     | 18.14                  | 18.11                  | 2.5                    |                              |          |     |
| 100                                   | 0       | 18.11     | 18.11                  | 18.11                  | 2.5                    |                              |          |     |

**Table 10-21**  
**LTE Band 66 (AWS) Ant F Measured  $P_{Limit}$  for DSI = 1 (Head) - 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         | 18.22                  | 18.22                  | 18.39                  | 0                            | 0        |
|                                       | 1       | 50        | 18.28                  | 18.28                  | 18.36                  |                              | 0        |
|                                       | 1       | 99        | 18.29                  | 18.17                  | 18.38                  |                              | 0        |
|                                       | 50      | 0         | 18.36                  | 18.33                  | 18.38                  | 0-1                          | 0        |
|                                       | 50      | 25        | 18.35                  | 18.34                  | 18.33                  |                              | 0        |
|                                       | 50      | 50        | 18.32                  | 18.35                  | 18.35                  |                              | 0        |
| 16QAM                                 | 100     | 0         | 18.32                  | 18.34                  | 18.36                  | 0                            |          |
|                                       | 1       | 0         | 18.51                  | 18.65                  | 18.58                  | 0-1                          | 0        |
|                                       | 1       | 50        | 18.54                  | 18.60                  | 18.73                  |                              | 0        |
|                                       | 1       | 99        | 18.49                  | 18.48                  | 18.66                  |                              | 0        |
|                                       | 50      | 0         | 18.35                  | 18.33                  | 18.33                  | 0-2                          | 0        |
|                                       | 50      | 25        | 18.36                  | 18.42                  | 18.45                  |                              | 0        |
| 64QAM                                 | 50      | 50        | 18.35                  | 18.37                  | 18.35                  |                              | 0        |
|                                       | 100     | 0         | 18.35                  | 18.39                  | 18.39                  | 0-2                          | 0        |
|                                       | 1       | 0         | 18.42                  | 18.48                  | 18.56                  |                              | 0        |
|                                       | 1       | 50        | 18.53                  | 18.60                  | 18.56                  |                              | 0-3      |
|                                       | 1       | 99        | 18.54                  | 18.50                  | 18.50                  | 0                            |          |
|                                       | 50      | 0         | 18.33                  | 18.33                  | 18.28                  | 0                            |          |
| 256QAM                                | 50      | 25        | 18.35                  | 18.41                  | 18.40                  | 0-5                          | 0        |
|                                       | 50      | 50        | 18.33                  | 18.38                  | 18.35                  |                              | 0        |
|                                       | 100     | 0         | 18.32                  | 18.39                  | 18.36                  |                              | 0        |
|                                       | 1       | 0         | 18.08                  | 18.28                  | 18.21                  | 0-5                          | 0        |
|                                       | 1       | 50        | 18.28                  | 18.46                  | 18.23                  |                              | 0        |
|                                       | 1       | 99        | 18.20                  | 18.18                  | 18.23                  |                              | 0        |
| 50                                    | 0       | 18.08     | 18.05                  | 18.05                  | 0                      |                              |          |
| 50                                    | 25      | 18.09     | 18.13                  | 18.14                  | 0                      |                              |          |
| 50                                    | 50      | 18.11     | 18.06                  | 18.09                  | 0                      |                              |          |
| 100                                   | 0       | 18.08     | 18.10                  | 18.15                  | 0                      |                              |          |

|                                                    |                                       |                                          |
|----------------------------------------------------|---------------------------------------|------------------------------------------|
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## 10.3.5 LTE Band 25

**Table 10-22**  
**LTE Band 25 (PCS) Ant A Measured  $P_{Limit}$  for DSI = 0 (Body-worn, Hotspot or Phablet)**  
**- 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         | 18.21                 | 18.22                 | 18.33                 | 0                            | 0        |
|                                       | 1       | 50        | 18.23                 | 18.29                 | 18.36                 |                              | 0        |
|                                       | 1       | 99        | 18.25                 | 18.27                 | 18.35                 |                              | 0        |
|                                       | 50      | 0         | 18.23                 | 18.35                 | 18.32                 | 0-1                          | 0        |
|                                       | 50      | 25        | 18.30                 | 18.36                 | 18.32                 |                              | 0        |
|                                       | 50      | 50        | 18.28                 | 18.39                 | 18.40                 |                              | 0        |
|                                       | 100     | 0         | 18.26                 | 18.31                 | 18.32                 |                              | 0        |
| 16QAM                                 | 1       | 0         | 18.40                 | 18.59                 | 18.54                 | 0-1                          | 0        |
|                                       | 1       | 50        | 18.49                 | 18.73                 | 18.65                 |                              | 0        |
|                                       | 1       | 99        | 18.43                 | 18.70                 | 18.49                 |                              | 0        |
|                                       | 50      | 0         | 18.21                 | 18.34                 | 18.33                 | 0-2                          | 0        |
|                                       | 50      | 25        | 18.30                 | 18.37                 | 18.34                 |                              | 0        |
|                                       | 50      | 50        | 18.28                 | 18.41                 | 18.39                 |                              | 0        |
|                                       | 100     | 0         | 18.26                 | 18.33                 | 18.30                 |                              | 0        |
| 64QAM                                 | 1       | 0         | 18.43                 | 18.58                 | 18.46                 | 0-2                          | 0        |
|                                       | 1       | 50        | 18.40                 | 18.58                 | 18.51                 |                              | 0        |
|                                       | 1       | 99        | 18.48                 | 18.55                 | 18.57                 |                              | 0        |
|                                       | 50      | 0         | 18.23                 | 18.36                 | 18.33                 | 0-3                          | 0        |
|                                       | 50      | 25        | 18.28                 | 18.37                 | 18.35                 |                              | 0        |
|                                       | 50      | 50        | 18.27                 | 18.43                 | 18.44                 |                              | 0        |
|                                       | 100     | 0         | 18.23                 | 18.32                 | 18.35                 |                              | 0        |
| 256QAM                                | 1       | 0         | 18.27                 | 18.46                 | 18.46                 | 0-5                          | 0        |
|                                       | 1       | 50        | 18.42                 | 18.51                 | 18.53                 |                              | 0        |
|                                       | 1       | 99        | 18.51                 | 18.53                 | 18.40                 |                              | 0        |
|                                       | 50      | 0         | 18.19                 | 18.34                 | 18.29                 | 0                            |          |
|                                       | 50      | 25        | 18.27                 | 18.40                 | 18.34                 | 0                            |          |
|                                       | 50      | 50        | 18.26                 | 18.35                 | 18.36                 | 0                            |          |
|                                       | 100     | 0         | 18.26                 | 18.33                 | 18.27                 | 0                            |          |

**Table 10-23**  
**LTE Band 25 (PCS) Ant A Measured  $P_{Max}$  for DSI = 1 (Head) - 20 MHz Bandwidth**

| LTE Band 25 (PCS)<br>20 MHz Bandwidth |         |           |                       |                       |                       |                              |          |
|---------------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                            | RB Size | RB Offset | Low Channel           | Mid Channel           | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                       |         |           | 26140<br>(1860.0 MHz) | 26365<br>(1882.5 MHz) | 26590<br>(1905.0 MHz) |                              |          |
|                                       |         |           | Conducted Power [dBm] |                       |                       |                              |          |
| QPSK                                  | 1       | 0         | 23.30                 | 23.41                 | 23.42                 | 0                            | 0        |
|                                       | 1       | 50        | 23.36                 | 23.55                 | 23.51                 |                              | 0        |
|                                       | 1       | 99        | 23.41                 | 23.50                 | 23.42                 |                              | 0        |
|                                       | 50      | 0         | 22.35                 | 22.45                 | 22.44                 | 0-1                          | 1        |
|                                       | 50      | 25        | 22.45                 | 22.48                 | 22.49                 |                              | 1        |
|                                       | 50      | 50        | 22.40                 | 22.56                 | 22.52                 |                              | 1        |
|                                       | 100     | 0         | 22.41                 | 22.46                 | 22.47                 |                              | 1        |
| 16QAM                                 | 1       | 0         | 22.62                 | 22.64                 | 22.61                 | 0-1                          | 1        |
|                                       | 1       | 50        | 22.65                 | 22.79                 | 22.70                 |                              | 1        |
|                                       | 1       | 99        | 22.70                 | 22.68                 | 22.58                 |                              | 1        |
|                                       | 50      | 0         | 21.33                 | 21.47                 | 21.48                 | 0-2                          | 2        |
|                                       | 50      | 25        | 21.45                 | 21.50                 | 21.47                 |                              | 2        |
|                                       | 50      | 50        | 21.44                 | 21.54                 | 21.55                 |                              | 2        |
|                                       | 100     | 0         | 21.42                 | 21.45                 | 21.45                 |                              | 2        |
| 64QAM                                 | 1       | 0         | 21.56                 | 21.58                 | 21.74                 | 0-2                          | 2        |
|                                       | 1       | 50        | 21.65                 | 21.70                 | 21.81                 |                              | 2        |
|                                       | 1       | 99        | 21.72                 | 21.73                 | 21.74                 |                              | 2        |
|                                       | 50      | 0         | 20.32                 | 20.46                 | 20.44                 | 0-3                          | 3        |
|                                       | 50      | 25        | 20.45                 | 20.51                 | 20.48                 |                              | 3        |
|                                       | 50      | 50        | 20.41                 | 20.52                 | 20.53                 |                              | 3        |
|                                       | 100     | 0         | 20.43                 | 20.45                 | 20.44                 |                              | 3        |
| 256QAM                                | 1       | 0         | 18.52                 | 18.56                 | 18.49                 | 0-5                          | 5        |
|                                       | 1       | 50        | 18.68                 | 18.65                 | 18.67                 |                              | 5        |
|                                       | 1       | 99        | 18.63                 | 18.50                 | 18.58                 |                              | 5        |
|                                       | 50      | 0         | 18.32                 | 18.47                 | 18.41                 |                              | 5        |
|                                       | 50      | 25        | 18.45                 | 18.47                 | 18.44                 |                              | 5        |
|                                       | 50      | 50        | 18.39                 | 18.50                 | 18.50                 |                              | 5        |
|                                       | 100     | 0         | 18.37                 | 18.46                 | 18.41                 |                              | 5        |

|                                                    |                                       |  |                                          |
|----------------------------------------------------|---------------------------------------|--|------------------------------------------|
| <b>FCC ID: A3LSMS938B</b>                          | <b>RF EXPOSURE PART 1 TEST REPORT</b> |  | <b>Approved by:</b><br>Technical Manager |
| <b>Document S/N:</b><br>1M2408260069-01.A3L (Rev1) | <b>DUT Type:</b><br>Portable Handset  |  | Page 52 of 131                           |

**Table 10-24**  
**LTE Band 25 (PCS) Ant F Measured  $P_{Limit}$  for DSI = 0 (Body-worn, Hotspot or Phablet)**  
**- 20 MHz Bandwidth**

| LTE Band 25 (PCS)<br>20 MHz Bandwidth |         |           |                       |                       |                       |                              |          |
|---------------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                            | RB Size | RB Offset | Low Channel           | Mid Channel           | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                       |         |           | 26140<br>(1860.0 MHz) | 26365<br>(1882.5 MHz) | 26590<br>(1905.0 MHz) |                              |          |
|                                       |         |           | Conducted Power [dBm] |                       |                       |                              |          |
| QPSK                                  | 1       | 0         | 19.77                 | 20.10                 | 20.04                 | 0                            | 0        |
|                                       | 1       | 50        | 19.86                 | 20.25                 | 20.09                 |                              | 0        |
|                                       | 1       | 99        | 19.84                 | 20.11                 | 20.05                 |                              | 0        |
|                                       | 50      | 0         | 19.85                 | 20.03                 | 20.09                 | 0-1                          | 0        |
|                                       | 50      | 25        | 19.98                 | 20.06                 | 20.10                 |                              | 0        |
|                                       | 50      | 50        | 19.98                 | 20.16                 | 20.15                 |                              | 0        |
|                                       | 100     | 0         | 19.90                 | 20.10                 | 20.07                 |                              | 0        |
| 16QAM                                 | 1       | 0         | 20.12                 | 20.21                 | 20.31                 | 0-1                          | 0        |
|                                       | 1       | 50        | 20.22                 | 20.41                 | 20.40                 |                              | 0        |
|                                       | 1       | 99        | 20.27                 | 20.32                 | 20.30                 |                              | 0        |
|                                       | 50      | 0         | 19.88                 | 20.06                 | 20.12                 | 0-2                          | 0        |
|                                       | 50      | 25        | 20.01                 | 20.08                 | 20.12                 |                              | 0        |
|                                       | 50      | 50        | 20.00                 | 20.19                 | 20.15                 |                              | 0        |
|                                       | 100     | 0         | 19.96                 | 20.04                 | 20.09                 |                              | 0        |
| 64QAM                                 | 1       | 0         | 20.09                 | 20.21                 | 20.34                 | 0-2                          | 0        |
|                                       | 1       | 50        | 20.11                 | 20.33                 | 20.32                 |                              | 0        |
|                                       | 1       | 99        | 20.15                 | 20.21                 | 20.20                 |                              | 0        |
|                                       | 50      | 0         | 19.89                 | 20.03                 | 20.08                 | 0-3                          | 0        |
|                                       | 50      | 25        | 19.96                 | 20.11                 | 20.13                 |                              | 0        |
|                                       | 50      | 50        | 19.99                 | 20.16                 | 20.17                 |                              | 0        |
|                                       | 100     | 0         | 19.93                 | 20.04                 | 20.07                 |                              | 0        |
| 256QAM                                | 1       | 0         | 18.26                 | 18.23                 | 18.50                 | 0-5                          | 2        |
|                                       | 1       | 50        | 18.31                 | 18.47                 | 18.52                 |                              | 2        |
|                                       | 1       | 99        | 18.26                 | 18.39                 | 18.50                 |                              | 2        |
|                                       | 50      | 0         | 18.08                 | 18.24                 | 18.28                 |                              | 2        |
|                                       | 50      | 25        | 18.20                 | 18.31                 | 18.31                 |                              | 2        |
|                                       | 50      | 50        | 18.15                 | 18.31                 | 18.32                 |                              | 2        |
|                                       | 100     | 0         | 18.16                 | 18.25                 | 18.29                 |                              | 2        |

**Table 10-25**  
**LTE Band 25 (PCS) Ant F Measured  $P_{Limit}$  for DSI = 1 (Head) - 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         | 18.93                 | 18.96                 | 19.02                 | 0                            | 0        |
|                                       | 1       | 50        | 18.96                 | 19.10                 | 18.98                 |                              | 0        |
|                                       | 1       | 99        | 18.92                 | 19.06                 | 19.00                 |                              | 0        |
|                                       | 50      | 0         | 18.86                 | 19.00                 | 19.05                 | 0-1                          | 0        |
|                                       | 50      | 25        | 18.98                 | 19.05                 | 19.07                 |                              | 0        |
|                                       | 50      | 50        | 18.97                 | 19.18                 | 19.16                 |                              | 0        |
|                                       | 100     | 0         | 18.90                 | 19.08                 | 19.04                 |                              | 0        |
| 16QAM                                 | 1       | 0         | 19.07                 | 19.16                 | 19.37                 | 0-1                          | 0        |
|                                       | 1       | 50        | 19.11                 | 19.25                 | 19.46                 |                              | 0        |
|                                       | 1       | 99        | 19.06                 | 19.24                 | 19.32                 |                              | 0        |
|                                       | 50      | 0         | 18.84                 | 19.01                 | 19.06                 | 0-2                          | 0        |
|                                       | 50      | 25        | 18.96                 | 19.02                 | 19.08                 |                              | 0        |
|                                       | 50      | 50        | 18.94                 | 19.12                 | 19.15                 |                              | 0        |
|                                       | 100     | 0         | 18.92                 | 18.99                 | 19.08                 |                              | 0        |
| 64QAM                                 | 1       | 0         | 19.10                 | 19.15                 | 19.36                 | 0-2                          | 0        |
|                                       | 1       | 50        | 19.20                 | 19.35                 | 19.40                 |                              | 0        |
|                                       | 1       | 99        | 19.05                 | 19.23                 | 19.33                 |                              | 0        |
|                                       | 50      | 0         | 18.88                 | 18.99                 | 19.10                 | 0-3                          | 0        |
|                                       | 50      | 25        | 18.99                 | 19.05                 | 19.08                 |                              | 0        |
|                                       | 50      | 50        | 18.95                 | 19.12                 | 19.16                 |                              | 0        |
|                                       | 100     | 0         | 18.94                 | 19.05                 | 19.05                 |                              | 0        |
| 256QAM                                | 1       | 0         | 18.17                 | 18.38                 | 18.50                 | 0-5                          | 1        |
|                                       | 1       | 50        | 18.27                 | 18.59                 | 18.51                 |                              | 1        |
|                                       | 1       | 99        | 18.28                 | 18.44                 | 18.46                 |                              | 1        |
|                                       | 50      | 0         | 18.07                 | 18.24                 | 18.26                 |                              | 1        |
|                                       | 50      | 25        | 18.20                 | 18.25                 | 18.34                 |                              | 1        |
|                                       | 50      | 50        | 18.13                 | 18.31                 | 18.34                 |                              | 1        |
|                                       | 100     | 0         | 18.16                 | 18.23                 | 18.29                 |                              | 1        |

|                                             |                                |  |                                   |
|---------------------------------------------|--------------------------------|--|-----------------------------------|
| FCC ID: A3LSMS938B                          | RF EXPOSURE PART 1 TEST REPORT |  | Approved by:<br>Technical Manager |
| Document S/N:<br>1M2408260069-01.A3L (Rev1) | DUT Type:<br>Portable Handset  |  | Page 53 of 131                    |

## 10.3.6 LTE Band 41

Table 10-26

LTE Band 41 PC3 Ant B Measured  $P_{Limit}$  for DSI = 0 (Body-worn, Hotspot or Phablet) - 20 MHz Bandwidth

| LTE Band 41<br>20 MHz Bandwidth |         |           |                                      |                                          |                                      |                                           |                                       |                              |          |
|---------------------------------|---------|-----------|--------------------------------------|------------------------------------------|--------------------------------------|-------------------------------------------|---------------------------------------|------------------------------|----------|
| Modulation                      | RB Size | RB Offset | Low Channel<br>39750<br>(2506.0 MHz) | Low-Mid Channel<br>40185<br>(2549.5 MHz) | Mid Channel<br>40620<br>(2593.0 MHz) | Mid-High Channel<br>41055<br>(2636.5 MHz) | High Channel<br>41490<br>(2680.0 MHz) | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
| Conducted Power [dBm]           |         |           |                                      |                                          |                                      |                                           |                                       |                              |          |
| QPSK                            | 1       | 0         | 21.65                                | 21.44                                    | 21.31                                | 21.35                                     | 21.52                                 | 0                            | 0        |
|                                 | 1       | 50        | 21.63                                | 21.39                                    | 21.39                                | 21.48                                     | 21.66                                 |                              | 0        |
|                                 | 1       | 99        | 21.67                                | 21.36                                    | 21.36                                | 21.41                                     | 21.53                                 |                              | 0        |
|                                 | 50      | 0         | 21.70                                | 21.49                                    | 21.50                                | 21.54                                     | 21.71                                 | 0-1                          | 0        |
|                                 | 50      | 25        | 21.66                                | 21.42                                    | 21.54                                | 21.60                                     | 21.67                                 |                              | 0        |
|                                 | 50      | 50        | 21.73                                | 21.40                                    | 21.40                                | 21.57                                     | 21.72                                 |                              | 0        |
|                                 | 100     | 0         | 21.64                                | 21.38                                    | 21.50                                | 21.58                                     | 21.53                                 |                              | 0        |
| 16QAM                           | 1       | 0         | 21.72                                | 21.49                                    | 21.23                                | 21.51                                     | 21.38                                 | 0-1                          | 0        |
|                                 | 1       | 50        | 21.73                                | 21.57                                    | 21.48                                | 21.51                                     | 21.55                                 |                              | 0        |
|                                 | 1       | 99        | 21.61                                | 21.49                                    | 21.31                                | 21.50                                     | 21.62                                 |                              | 0        |
|                                 | 50      | 0         | 21.73                                | 21.52                                    | 21.50                                | 21.59                                     | 21.71                                 | 0-2                          | 0        |
|                                 | 50      | 25        | 21.67                                | 21.43                                    | 21.52                                | 21.61                                     | 21.74                                 |                              | 0        |
|                                 | 50      | 50        | 21.65                                | 21.40                                    | 21.44                                | 21.57                                     | 21.72                                 |                              | 0        |
|                                 | 100     | 0         | 21.62                                | 21.39                                    | 21.49                                | 21.55                                     | 21.72                                 |                              | 0        |
| 64QAM                           | 1       | 0         | 21.56                                | 21.47                                    | 21.21                                | 21.34                                     | 21.59                                 | 0-2                          | 0        |
|                                 | 1       | 50        | 21.68                                | 21.39                                    | 21.41                                | 21.49                                     | 21.72                                 |                              | 0        |
|                                 | 1       | 99        | 21.58                                | 21.43                                    | 21.35                                | 21.48                                     | 21.56                                 |                              | 0        |
|                                 | 50      | 0         | 21.55                                | 21.32                                    | 21.32                                | 21.36                                     | 21.50                                 | 0-3                          | 0        |
|                                 | 50      | 25        | 21.49                                | 21.27                                    | 21.40                                | 21.40                                     | 21.58                                 |                              | 0        |
|                                 | 50      | 50        | 21.45                                | 21.21                                    | 21.26                                | 21.40                                     | 21.53                                 |                              | 0        |
|                                 | 100     | 0         | 21.45                                | 21.21                                    | 21.35                                | 21.40                                     | 21.50                                 |                              | 0        |
| 256QAM                          | 1       | 0         | 19.38                                | 19.24                                    | 19.21                                | 19.18                                     | 19.34                                 | 0-5                          | 2        |
|                                 | 1       | 50        | 19.52                                | 19.28                                    | 19.24                                | 19.33                                     | 19.40                                 |                              | 2        |
|                                 | 1       | 99        | 19.27                                | 19.04                                    | 19.04                                | 19.11                                     | 19.40                                 |                              | 2        |
|                                 | 50      | 0         | 19.52                                | 19.30                                    | 19.29                                | 19.34                                     | 19.50                                 |                              | 2        |
|                                 | 50      | 25        | 19.46                                | 19.23                                    | 19.33                                | 19.40                                     | 19.54                                 |                              | 2        |
|                                 | 50      | 50        | 19.43                                | 19.20                                    | 19.21                                | 19.39                                     | 19.52                                 |                              | 2        |
|                                 | 100     | 0         | 19.41                                | 19.20                                    | 19.30                                | 19.37                                     | 19.49                                 |                              | 2        |

Table 10-27

LTE Band 41 PC2 Ant B Measured  $P_{Limit}$  for DSI = 0 (Body-worn, Hotspot or Phablet) - 20 MHz Bandwidth

| LTE Band 41<br>20 MHz Bandwidth |         |           |                                      |                                          |                                      |                                           |                                       |                              |          |
|---------------------------------|---------|-----------|--------------------------------------|------------------------------------------|--------------------------------------|-------------------------------------------|---------------------------------------|------------------------------|----------|
| Modulation                      | RB Size | RB Offset | Low Channel<br>39750<br>(2506.0 MHz) | Low-Mid Channel<br>40185<br>(2549.5 MHz) | Mid Channel<br>40620<br>(2593.0 MHz) | Mid-High Channel<br>41055<br>(2636.5 MHz) | High Channel<br>41490<br>(2680.0 MHz) | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
| Conducted Power [dBm]           |         |           |                                      |                                          |                                      |                                           |                                       |                              |          |
| QPSK                            | 1       | 0         | 23.38                                | 23.16                                    | 23.00                                | 23.11                                     | 23.28                                 | 0                            | 0        |
|                                 | 1       | 50        | 23.33                                | 23.12                                    | 23.08                                | 23.18                                     | 23.38                                 |                              | 0        |
|                                 | 1       | 99        | 23.41                                | 23.07                                    | 22.92                                | 23.11                                     | 23.27                                 |                              | 0        |
|                                 | 50      | 0         | 23.35                                | 23.17                                    | 23.12                                | 23.19                                     | 23.38                                 | 0-1                          | 0        |
|                                 | 50      | 25        | 23.36                                | 23.11                                    | 23.19                                | 23.29                                     | 23.36                                 |                              | 0        |
|                                 | 50      | 50        | 23.40                                | 23.06                                    | 23.08                                | 23.23                                     | 23.33                                 |                              | 0        |
|                                 | 100     | 0         | 23.30                                | 23.08                                    | 23.12                                | 23.22                                     | 23.31                                 |                              | 0        |

|                                             |                                |                                   |
|---------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: A3LSMS938B                          | RF EXPOSURE PART 1 TEST REPORT | Approved by:<br>Technical Manager |
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**Table 10-28**  
**LTE Band 41 PC3 Ant B Measured  $P_{Max}$  for DSI = 1 (Head) - 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         | 24.54                 | 24.34                 | 24.24                 | 24.31                 | 24.42                 | 0                            | 0        |
|                                 | 1       | 50        | 24.56                 | 24.32                 | 24.38                 | 24.48                 | 24.51                 |                              | 0        |
|                                 | 1       | 99        | 24.65                 | 24.25                 | 24.33                 | 24.41                 | 24.52                 |                              | 0        |
|                                 | 50      | 0         | 23.65                 | 23.44                 | 23.47                 | 23.48                 | 23.63                 | 0-1                          | 1        |
|                                 | 50      | 25        | 23.59                 | 23.40                 | 23.50                 | 23.58                 | 23.64                 |                              | 1        |
|                                 | 50      | 50        | 23.68                 | 23.35                 | 23.42                 | 23.54                 | 23.62                 |                              | 1        |
|                                 | 100     | 0         | 23.60                 | 23.31                 | 23.44                 | 23.50                 | 23.59                 |                              | 1        |
| 16QAM                           | 1       | 0         | 23.63                 | 23.52                 | 23.26                 | 23.27                 | 23.65                 | 0-1                          | 1        |
|                                 | 1       | 50        | 23.66                 | 23.44                 | 23.43                 | 23.49                 | 23.71                 |                              | 1        |
|                                 | 1       | 99        | 23.55                 | 23.43                 | 23.34                 | 23.38                 | 23.58                 |                              | 1        |
|                                 | 50      | 0         | 22.63                 | 22.42                 | 22.44                 | 22.49                 | 22.61                 | 0-2                          | 2        |
|                                 | 50      | 25        | 22.61                 | 22.35                 | 22.51                 | 22.54                 | 22.68                 |                              | 2        |
|                                 | 50      | 50        | 22.57                 | 22.31                 | 22.38                 | 22.52                 | 22.62                 |                              | 2        |
|                                 | 100     | 0         | 22.55                 | 22.33                 | 22.46                 | 22.50                 | 22.63                 |                              | 2        |
| 64QAM                           | 1       | 0         | 22.67                 | 22.25                 | 22.30                 | 22.20                 | 22.43                 | 0-2                          | 2        |
|                                 | 1       | 50        | 22.50                 | 22.36                 | 22.50                 | 22.40                 | 22.63                 |                              | 2        |
|                                 | 1       | 99        | 22.48                 | 22.28                 | 22.26                 | 22.25                 | 22.61                 |                              | 2        |
|                                 | 50      | 0         | 21.64                 | 21.44                 | 21.44                 | 21.49                 | 21.61                 | 0-3                          | 3        |
|                                 | 50      | 25        | 21.58                 | 21.36                 | 21.46                 | 21.54                 | 21.62                 |                              | 3        |
|                                 | 50      | 50        | 21.53                 | 21.34                 | 21.39                 | 21.55                 | 21.66                 |                              | 3        |
|                                 | 100     | 0         | 21.52                 | 21.31                 | 21.46                 | 21.51                 | 21.61                 |                              | 3        |
| 256QAM                          | 1       | 0         | 19.47                 | 19.31                 | 19.16                 | 19.29                 | 19.40                 | 0-5                          | 5        |
|                                 | 1       | 50        | 19.63                 | 19.25                 | 19.32                 | 19.47                 | 19.71                 |                              | 5        |
|                                 | 1       | 99        | 19.43                 | 19.20                 | 19.17                 | 19.39                 | 19.44                 |                              | 5        |
|                                 | 50      | 0         | 19.57                 | 19.37                 | 19.40                 | 19.45                 | 19.52                 |                              | 5        |
|                                 | 50      | 25        | 19.52                 | 19.32                 | 19.44                 | 19.51                 | 19.58                 |                              | 5        |
|                                 | 50      | 50        | 19.46                 | 19.27                 | 19.31                 | 19.49                 | 19.59                 |                              | 5        |
|                                 | 100     | 0         | 19.49                 | 19.27                 | 19.39                 | 19.48                 | 19.55                 |                              | 5        |

**Table 10-29**  
**LTE Band 41 PC2 Ant B Measured  $P_{Max}$  for DSI = 1 (Head) - 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         | 25.11                 | 25.15                 | 25.11                 | 25.13                 | 25.17                 | 0                            | 0        |
|                                 | 1       | 50        | 25.14                 | 25.12                 | 25.14                 | 25.16                 | 25.07                 |                              | 0        |
|                                 | 1       | 99        | 25.18                 | 25.15                 | 25.17                 | 25.12                 | 25.09                 |                              | 0        |
|                                 | 50      | 0         | 24.50                 | 24.34                 | 24.30                 | 24.40                 | 24.48                 | 0-1                          | 1        |
|                                 | 50      | 25        | 24.48                 | 24.27                 | 24.37                 | 24.45                 | 24.52                 |                              | 1        |
|                                 | 50      | 50        | 24.55                 | 24.24                 | 24.26                 | 24.39                 | 24.52                 |                              | 1        |
|                                 | 100     | 0         | 24.54                 | 24.25                 | 24.33                 | 24.39                 | 24.53                 |                              | 1        |

|                                             |                                |                                   |
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Table 10-30

LTE Band 41 PC3 Ant F Measured  $P_{Limit}$  for DSI = 0 (Body-worn, Hotspot or Phablet) - 20 MHz Bandwidth

| LTE Band 41<br>20 MHz Bandwidth |         |           |                       |                       |                       |                       |                       |                              |          |
|---------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                      | RB Size | RB Offset | Low Channel           | Low-Mid Channel       | Mid Channel           | Mid-High Channel      | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                 |         |           | 39750<br>(2506.0 MHz) | 40185<br>(2549.5 MHz) | 40620<br>(2593.0 MHz) | 41055<br>(2636.5 MHz) | 41490<br>(2680.0 MHz) |                              |          |
|                                 |         |           | Conducted Power [dBm] |                       |                       |                       |                       |                              |          |
| QPSK                            | 1       | 0         | 21.36                 | 21.20                 | 21.16                 | 21.00                 | 21.01                 | 0                            | 0        |
|                                 | 1       | 50        | 21.37                 | 21.18                 | 21.30                 | 21.12                 | 21.09                 |                              | 0        |
|                                 | 1       | 99        | 21.40                 | 21.14                 | 21.16                 | 20.95                 | 21.03                 |                              | 0        |
|                                 | 50      | 0         | 21.48                 | 21.29                 | 21.32                 | 21.21                 | 21.24                 | 0-1                          | 0        |
|                                 | 50      | 25        | 21.50                 | 21.27                 | 21.35                 | 21.24                 | 21.22                 |                              | 0        |
|                                 | 50      | 50        | 21.51                 | 21.29                 | 21.30                 | 21.09                 | 21.19                 |                              | 0        |
|                                 | 100     | 0         | 21.37                 | 21.26                 | 21.26                 | 21.19                 | 21.19                 |                              | 0        |
| 16QAM                           | 1       | 0         | 21.55                 | 21.20                 | 21.24                 | 21.24                 | 21.27                 | 0-1                          | 0        |
|                                 | 1       | 50        | 21.56                 | 21.21                 | 21.48                 | 21.25                 | 21.29                 |                              | 0        |
|                                 | 1       | 99        | 21.48                 | 21.30                 | 21.21                 | 21.22                 | 21.12                 |                              | 0        |
|                                 | 50      | 0         | 21.50                 | 21.30                 | 21.31                 | 21.21                 | 21.19                 | 0-2                          | 0        |
|                                 | 50      | 25        | 21.49                 | 21.31                 | 21.33                 | 21.22                 | 21.20                 |                              | 0        |
|                                 | 50      | 50        | 21.37                 | 21.27                 | 21.26                 | 21.15                 | 21.22                 |                              | 0        |
|                                 | 100     | 0         | 21.48                 | 21.25                 | 21.35                 | 21.24                 | 21.18                 |                              | 0        |
| 64QAM                           | 1       | 0         | 21.43                 | 21.18                 | 21.29                 | 21.17                 | 21.11                 | 0-2                          | 0        |
|                                 | 1       | 50        | 21.42                 | 21.21                 | 21.26                 | 21.18                 | 21.07                 |                              | 0        |
|                                 | 1       | 99        | 21.30                 | 21.03                 | 21.20                 | 21.04                 | 21.05                 |                              | 0        |
|                                 | 50      | 0         | 21.45                 | 21.27                 | 21.27                 | 21.20                 | 21.16                 | 0-3                          | 0        |
|                                 | 50      | 25        | 21.45                 | 21.30                 | 21.28                 | 21.20                 | 21.19                 |                              | 0        |
|                                 | 50      | 50        | 21.34                 | 21.23                 | 21.24                 | 21.09                 | 21.14                 |                              | 0        |
|                                 | 100     | 0         | 21.43                 | 21.25                 | 21.25                 | 21.17                 | 21.17                 |                              | 0        |
| 256QAM                          | 1       | 0         | 19.47                 | 19.10                 | 19.21                 | 19.03                 | 18.96                 | 0-5                          | 2        |
|                                 | 1       | 50        | 19.41                 | 19.12                 | 19.25                 | 19.26                 | 19.13                 |                              | 2        |
|                                 | 1       | 99        | 19.25                 | 19.06                 | 19.13                 | 18.97                 | 19.08                 |                              | 2        |
|                                 | 50      | 0         | 19.43                 | 19.23                 | 19.26                 | 19.15                 | 19.18                 |                              | 2        |
|                                 | 50      | 25        | 19.44                 | 19.27                 | 19.28                 | 19.24                 | 19.18                 |                              | 2        |
|                                 | 50      | 50        | 19.34                 | 19.22                 | 19.25                 | 19.08                 | 19.14                 |                              | 2        |
|                                 | 100     | 0         | 19.44                 | 19.25                 | 19.27                 | 19.18                 | 19.18                 |                              | 2        |

Table 10-31

LTE Band 41 PC2 Ant F Measured  $P_{Limit}$  for DSI = 0 (Body-worn, Hotspot or Phablet) - 20 MHz Bandwidth

| LTE Band 41      |         |           |                       |                       |                       |                       |                       |                           |          |
|------------------|---------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------------------------|----------|
| 20 MHz Bandwidth |         |           |                       |                       |                       |                       |                       |                           |          |
| Modulation       | RB Size | RB Offset | Low Channel           | Low-Mid Channel       | Mid Channel           | Mid-High Channel      | High Channel          | MPR Allowed per 3GPP [dB] | MPR [dB] |
|                  |         |           | 39750<br>(2506.0 MHz) | 40185<br>(2549.5 MHz) | 40620<br>(2593.0 MHz) | 41055<br>(2636.5 MHz) | 41490<br>(2680.0 MHz) |                           |          |
|                  |         |           | Conducted Power [dBm] |                       |                       |                       |                       |                           |          |
| QPSK             | 1       | 0         | 23.10                 | 22.93                 | 22.85                 | 22.74                 | 22.81                 | 0                         | 0        |
|                  | 1       | 50        | 23.16                 | 22.93                 | 23.00                 | 22.91                 | 22.87                 |                           | 0        |
|                  | 1       | 99        | 23.18                 | 22.80                 | 22.86                 | 22.70                 | 22.77                 |                           | 0        |
|                  | 50      | 0         | 23.16                 | 22.99                 | 22.99                 | 22.95                 | 22.95                 | 0-1                       | 0        |
|                  | 50      | 25        | 23.22                 | 23.01                 | 23.02                 | 22.97                 | 22.98                 |                           | 0        |
|                  | 50      | 50        | 23.23                 | 22.96                 | 23.01                 | 22.85                 | 22.90                 |                           | 0        |
|                  | 100     | 0         | 23.15                 | 22.95                 | 23.00                 | 22.93                 | 22.95                 |                           | 0        |

|                                             |                                |                                   |
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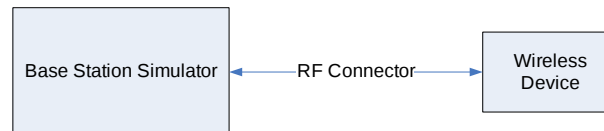
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**Table 10-32**  
**LTE Band 41 PC3 Ant F Measured  $P_{Limit}$  for DSI = 1 (Head) - 20 MHz Bandwidth**

| 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         | 17.80                 | 17.65                 | 17.67                 | 17.62                 | 17.59                 | 0                            | 0        |
|                                 | 1       | 50        | 17.78                 | 17.65                 | 17.80                 | 17.73                 | 17.77                 |                              | 0        |
|                                 | 1       | 99        | 17.84                 | 17.67                 | 17.68                 | 17.58                 | 17.65                 |                              | 0        |
|                                 | 50      | 0         | 17.88                 | 17.76                 | 17.78                 | 17.73                 | 17.72                 | 0-1                          | 0        |
|                                 | 50      | 25        | 17.87                 | 17.74                 | 17.82                 | 17.76                 | 17.76                 |                              | 0        |
|                                 | 50      | 50        | 17.89                 | 17.74                 | 17.80                 | 17.70                 | 17.81                 |                              | 0        |
|                                 | 100     | 0         | 17.83                 | 17.73                 | 17.79                 | 17.76                 | 17.71                 |                              | 0        |
| 16QAM                           | 1       | 0         | 17.86                 | 17.83                 | 17.64                 | 17.60                 | 17.70                 | 0-1                          | 0        |
|                                 | 1       | 50        | 17.77                 | 17.85                 | 17.71                 | 17.77                 | 17.88                 |                              | 0        |
|                                 | 1       | 99        | 17.64                 | 17.81                 | 17.72                 | 17.49                 | 17.76                 |                              | 0        |
|                                 | 50      | 0         | 17.89                 | 17.76                 | 17.75                 | 17.73                 | 17.67                 | 0-2                          | 0        |
|                                 | 50      | 25        | 17.91                 | 17.78                 | 17.77                 | 17.81                 | 17.73                 |                              | 0        |
|                                 | 50      | 50        | 17.85                 | 17.75                 | 17.73                 | 17.66                 | 17.78                 |                              | 0        |
|                                 | 100     | 0         | 17.85                 | 17.73                 | 17.75                 | 17.74                 | 17.70                 |                              | 0        |
| 64QAM                           | 1       | 0         | 17.78                 | 17.77                 | 17.74                 | 17.55                 | 17.69                 | 0-2                          | 0        |
|                                 | 1       | 50        | 17.78                 | 17.67                 | 17.78                 | 17.70                 | 17.81                 |                              | 0        |
|                                 | 1       | 99        | 17.70                 | 17.64                 | 17.62                 | 17.57                 | 17.64                 |                              | 0        |
|                                 | 50      | 0         | 17.91                 | 17.77                 | 17.75                 | 17.75                 | 17.68                 | 0-3                          | 0        |
|                                 | 50      | 25        | 17.93                 | 17.74                 | 17.81                 | 17.81                 | 17.74                 |                              | 0        |
|                                 | 50      | 50        | 17.88                 | 17.75                 | 17.75                 | 17.69                 | 17.80                 |                              | 0        |
|                                 | 100     | 0         | 17.86                 | 17.75                 | 17.76                 | 17.76                 | 17.66                 |                              | 0        |
| 256QAM                          | 1       | 0         | 17.78                 | 17.71                 | 17.65                 | 17.70                 | 17.62                 | 0-5                          | 0        |
|                                 | 1       | 50        | 17.84                 | 17.73                 | 17.77                 | 17.71                 | 17.80                 |                              | 0        |
|                                 | 1       | 99        | 17.61                 | 17.64                 | 17.75                 | 17.65                 | 17.76                 |                              | 0        |
|                                 | 50      | 0         | 17.89                 | 17.78                 | 17.80                 | 17.78                 | 17.72                 |                              | 0        |
|                                 | 50      | 25        | 17.93                 | 17.82                 | 17.81                 | 17.86                 | 17.74                 |                              | 0        |
|                                 | 50      | 50        | 17.84                 | 17.78                 | 17.79                 | 17.73                 | 17.79                 |                              | 0        |
|                                 | 100     | 0         | 17.88                 | 17.74                 | 17.79                 | 17.80                 | 17.70                 |                              | 0        |

**Table 10-33**  
**LTE Band 41 PC2 Ant F Measured  $P_{Limit}$  for DSI = 1 (Head) - 20 MHz Bandwidth**

| LTE Band 41      |         |           |                       |                       |                       |                       |                       |                           |          |
|------------------|---------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------------------------|----------|
| 20 MHz Bandwidth |         |           |                       |                       |                       |                       |                       |                           |          |
| Modulation       | RB Size | RB Offset | Low Channel           | Low-Mid Channel       | Mid Channel           | Mid-High Channel      | High Channel          | MPR Allowed per 3GPP [dB] | MPR [dB] |
|                  |         |           | 39750<br>(2506.0 MHz) | 40185<br>(2549.5 MHz) | 40620<br>(2593.0 MHz) | 41055<br>(2636.5 MHz) | 41490<br>(2680.0 MHz) |                           |          |
|                  |         |           | Conducted Power [dBm] |                       |                       |                       |                       |                           |          |
| QPSK             | 1       | 0         | 19.68                 | 19.40                 | 19.39                 | 19.37                 | 19.35                 | 0                         | 0        |
|                  | 1       | 50        | 19.69                 | 19.46                 | 19.64                 | 19.48                 | 19.49                 |                           | 0        |
|                  | 1       | 99        | 19.71                 | 19.41                 | 19.41                 | 19.44                 | 19.28                 |                           | 0        |
|                  | 50      | 0         | 19.70                 | 19.58                 | 19.52                 | 19.51                 | 19.41                 | 0-1                       | 0        |
|                  | 50      | 25        | 19.72                 | 19.55                 | 19.55                 | 19.53                 | 19.45                 |                           | 0        |
|                  | 50      | 50        | 19.74                 | 19.54                 | 19.53                 | 19.42                 | 19.52                 |                           | 0        |
|                  | 100     | 0         | 19.67                 | 19.52                 | 19.50                 | 19.50                 | 19.43                 |                           | 0        |



**Figure 10-3**  
**Power Measurement Setup**

|                                                    |                                       |                                          |
|----------------------------------------------------|---------------------------------------|------------------------------------------|
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## 10.4 NR Conducted Powers

Per October 2020 TCB Workshop Guidance, NR FR1 SAR evaluations are being generally based on adapting the existing LTE SAR procedures (FCC KDB Publication 941225 D05v02r05). Therefore, NR SAR for the lower bandwidths was not required for testing based on the measured output power and the reported NR SAR for the highest bandwidth. Lower bandwidth conducted powers for all NR bands can be found in LTE and NR Lower Bandwidth RF Conducted Powers Appendix.

Note: Some bands do not support non-overlapping channels. Per FCC Guidance, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

### 10.4.1 NR Band n5

Table 10-34  
NR Band n5 Ant A Measured  $P_{Max}$  for all DSI - 20 MHz Bandwidth

| NR Band n5<br>20 MHz Bandwidth |         |           |                                             |                           |          |
|--------------------------------|---------|-----------|---------------------------------------------|---------------------------|----------|
| Modulation                     | RB Size | RB Offset | Channel                                     | MPR Allowed per 3GPP [dB] | MPR [dB] |
|                                |         |           | 167300 (836.5 MHz)<br>Conducted Power [dBm] |                           |          |
| DFT-s-OFDM QPSK                | 1       | 1         | 23.89                                       | 0                         | 0.0      |
|                                | 1       | 53        | <b>23.93</b>                                |                           | 0.0      |
|                                | 1       | 104       | 23.87                                       |                           | 0.0      |
|                                | 50      | 0         | 22.77                                       | 0-1                       | 1.0      |
|                                | 50      | 28        | <b>23.83</b>                                | 0                         | 0.0      |
|                                | 50      | 56        | 22.76                                       | 0-1                       | 1.0      |
|                                | 100     | 0         | 22.87                                       |                           | 1.0      |
| DFT-s-OFDM 16QAM               | 1       | 1         | 22.59                                       | 0-1                       | 1.0      |
| CP-OFDM QPSK                   | 1       | 1         | 22.37                                       | 0-1.5                     | 1.5      |

|                                             |                                |                                   |
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Table 10-35

NR Band n5 Ant E Measured  $P_{Max}$  for DSI = 0 (Body-worn, Hotspot or Phablet) - 20 MHz Bandwidth

| NR Band n5<br>20 MHz Bandwidth |         |           |                                             |                           |          |
|--------------------------------|---------|-----------|---------------------------------------------|---------------------------|----------|
| Modulation                     | RB Size | RB Offset | Channel                                     | MPR Allowed per 3GPP [dB] | MPR [dB] |
|                                |         |           | 167300 (836.5 MHz)<br>Conducted Power [dBm] |                           |          |
| DFT-s-OFDM QPSK                | 1       | 1         | 23.90                                       | 0                         | 0.0      |
|                                | 1       | 53        | 23.95                                       |                           | 0.0      |
|                                | 1       | 104       | <b>24.01</b>                                |                           | 0.0      |
|                                | 50      | 0         | 22.90                                       | 0-1                       | 1.0      |
|                                | 50      | 28        | <b>23.95</b>                                | 0                         | 0.0      |
|                                | 50      | 56        | 22.86                                       | 0-1                       | 1.0      |
|                                | 100     | 0         | 23.01                                       |                           | 1.0      |
| DFT-s-OFDM 16QAM               | 1       | 1         | 22.68                                       | 0-1                       | 1.0      |
| CP-OFDM QPSK                   | 1       | 1         | 22.44                                       | 0-1.5                     | 1.5      |

Table 10-36

NR Band n5 Ant E Measured  $P_{Limit}$  for DSI = 1 (Head) - 20 MHz Bandwidth

| NR Band n5<br>20 MHz Bandwidth |         |           |                                             |                           |          |
|--------------------------------|---------|-----------|---------------------------------------------|---------------------------|----------|
| Modulation                     | RB Size | RB Offset | Channel                                     | MPR Allowed per 3GPP [dB] | MPR [dB] |
|                                |         |           | 167300 (836.5 MHz)<br>Conducted Power [dBm] |                           |          |
| DFT-s-OFDM QPSK                | 1       | 1         | 20.76                                       | 0                         | 0.0      |
|                                | 1       | 53        | <b>20.79</b>                                |                           | 0.0      |
|                                | 1       | 104       | 20.70                                       |                           | 0.0      |
|                                | 50      | 0         | 20.66                                       | 0-1                       | 0.0      |
|                                | 50      | 28        | <b>20.73</b>                                | 0                         | 0.0      |
|                                | 50      | 56        | 20.63                                       | 0-1                       | 0.0      |
|                                | 100     | 0         | 20.72                                       |                           | 0.0      |
| DFT-s-OFDM 16QAM               | 1       | 1         | 20.45                                       | 0-1                       | 0.0      |
| CP-OFDM QPSK                   | 1       | 1         | 20.76                                       | 0-1.5                     | 0.0      |

|                                             |                                |                                   |
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## 10.4.2 NR Band n66

Table 10-37

NR Band n66 Ant A Measured  $P_{Limit}$  for DSI = 0 (Body-worn, Hotspot or Phablet) - 45 MHz Bandwidth

| NR Band n66<br>45 MHz Bandwidth |         |           |                                            |                           |          |
|---------------------------------|---------|-----------|--------------------------------------------|---------------------------|----------|
| Modulation                      | RB Size | RB Offset | Channel                                    | MPR Allowed per 3GPP [dB] | MPR [dB] |
|                                 |         |           | 349000 (1745 MHz)<br>Conducted Power [dBm] |                           |          |
| DFT-s-OFDM QPSK                 | 1       | 1         | 18.95                                      | 0                         | 0.0      |
|                                 | 1       | 121       | 19.02                                      |                           | 0.0      |
|                                 | 1       | 240       | <b>19.15</b>                               |                           | 0.0      |
|                                 | 120     | 0         | <b>19.05</b>                               | 0-1                       | 0.0      |
|                                 | 120     | 61        | 18.98                                      | 0                         | 0.0      |
|                                 | 120     | 122       | 18.96                                      | 0-1                       | 0.0      |
|                                 | 240     | 0         | 18.95                                      |                           | 0.0      |
| DFT-s-OFDM 16QAM                | 1       | 1         | 18.99                                      | 0-1                       | 0.0      |
| CP-OFDM QPSK                    | 1       | 1         | 19.19                                      | 0-1.5                     | 0.0      |

Table 10-38

NR Band n66 Ant A Measured  $P_{Max}$  for DSI = 1 (Head) - 45 MHz Bandwidth

| NR Band n66<br>45 MHz Bandwidth |         |           |                                            |                           |          |
|---------------------------------|---------|-----------|--------------------------------------------|---------------------------|----------|
| Modulation                      | RB Size | RB Offset | Channel                                    | MPR Allowed per 3GPP [dB] | MPR [dB] |
|                                 |         |           | 349000 (1745 MHz)<br>Conducted Power [dBm] |                           |          |
| DFT-s-OFDM QPSK                 | 1       | 1         | 22.52                                      | 0                         | 0.0      |
|                                 | 1       | 121       | 22.43                                      |                           | 0.0      |
|                                 | 1       | 240       | <b>22.53</b>                               |                           | 0.0      |
|                                 | 120     | 0         | 21.48                                      | 0-1                       | 1.0      |
|                                 | 120     | 61        | <b>22.48</b>                               | 0                         | 0.0      |
|                                 | 120     | 122       | 21.39                                      | 0-1                       | 1.0      |
|                                 | 240     | 0         | 21.40                                      |                           | 1.0      |
| DFT-s-OFDM 16QAM                | 1       | 1         | 21.32                                      | 0-1                       | 1.0      |
| CP-OFDM QPSK                    | 1       | 1         | 21.07                                      | 0-1.5                     | 1.5      |

|                                             |                                |                                   |
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**Table 10-39**  
NR Band n66 Ant F Measured  $P_{Limit}$  for DSI = 0 (Body-worn, Hotspot or Phablet) - 45 MHz Bandwidth

| NR Band n66<br>45 MHz Bandwidth |         |           |                                            |                           |          |
|---------------------------------|---------|-----------|--------------------------------------------|---------------------------|----------|
| Modulation                      | RB Size | RB Offset | Channel                                    | MPR Allowed per 3GPP [dB] | MPR [dB] |
|                                 |         |           | 349000 (1745 MHz)<br>Conducted Power [dBm] |                           |          |
| DFT-s-OFDM QPSK                 | 1       | 1         | <b>20.83</b>                               | 0                         | 0.0      |
|                                 | 1       | 121       | 20.72                                      |                           | 0.0      |
|                                 | 1       | 240       | 20.75                                      |                           | 0.0      |
|                                 | 120     | 0         | <b>20.75</b>                               | 0-1                       | 0.0      |
|                                 | 120     | 61        | 20.71                                      | 0                         | 0.0      |
|                                 | 120     | 122       | 20.66                                      | 0-1                       | 0.0      |
|                                 | 240     | 0         | 20.66                                      |                           | 0.0      |
| DFT-s-OFDM 16QAM                | 1       | 1         | 20.75                                      | 0-1                       | 0.0      |
| CP-OFDM QPSK                    | 1       | 1         | 20.82                                      | 0-1.5                     | 0.0      |

**Table 10-40**  
NR Band n66 Ant F Measured  $P_{Limit}$  for DSI = 1 (Head) - 45 MHz Bandwidth

| NR Band n66<br>45 MHz Bandwidth |         |           |                                            |                           |          |
|---------------------------------|---------|-----------|--------------------------------------------|---------------------------|----------|
| Modulation                      | RB Size | RB Offset | Channel                                    | MPR Allowed per 3GPP [dB] | MPR [dB] |
|                                 |         |           | 349000 (1745 MHz)<br>Conducted Power [dBm] |                           |          |
| DFT-s-OFDM QPSK                 | 1       | 1         | 17.96                                      | 0                         | 0.0      |
|                                 | 1       | 121       | <b>17.98</b>                               |                           | 0.0      |
|                                 | 1       | 240       | 17.92                                      |                           | 0.0      |
|                                 | 120     | 0         | <b>17.98</b>                               | 0-1                       | 0.0      |
|                                 | 120     | 61        | 17.86                                      | 0                         | 0.0      |
|                                 | 120     | 122       | 17.72                                      | 0-1                       | 0.0      |
|                                 | 240     | 0         | 17.93                                      |                           | 0.0      |
| DFT-s-OFDM 16QAM                | 1       | 1         | 17.88                                      | 0-1                       | 0.0      |
| CP-OFDM QPSK                    | 1       | 1         | 17.99                                      | 0-1.5                     | 0.0      |

|                                             |                                |                                   |
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### 10.4.3 NR Band n25

Table 10-41

NR Band n25 Ant A Measured  $P_{Limit}$  for DSI = 0 (Body-worn, Hotspot or Phablet) - 40 MHz Bandwidth

| NR Band n25<br>40 MHz Bandwidth |         |           |                                              |                           |          |
|---------------------------------|---------|-----------|----------------------------------------------|---------------------------|----------|
| Modulation                      | RB Size | RB Offset | Channel                                      | MPR Allowed per 3GPP [dB] | MPR [dB] |
|                                 |         |           | 376500 (1882.5 MHz)<br>Conducted Power [dBm] |                           |          |
| DFT-s-OFDM QPSK                 | 1       | 1         | 18.15                                        | 0                         | 0.0      |
|                                 | 1       | 108       | 18.00                                        |                           | 0.0      |
|                                 | 1       | 214       | 18.14                                        |                           | 0.0      |
|                                 | 108     | 0         | 17.97                                        | 0-1                       | 0.0      |
|                                 | 108     | 54        | 18.05                                        | 0                         | 0.0      |
|                                 | 108     | 108       | 17.91                                        | 0-1                       | 0.0      |
|                                 | 216     | 0         | 18.00                                        |                           | 0.0      |
| DFT-s-OFDM 16QAM                | 1       | 1         | 18.09                                        | 0-1                       | 0.0      |
| CP-OFDM QPSK                    | 1       | 1         | 18.28                                        | 0-1.5                     | 0.0      |

Table 10-42

NR Band n25 Ant A Measured  $P_{Max}$  for DSI = 1 (Head) - 40 MHz Bandwidth

| NR Band n25<br>40 MHz Bandwidth |         |           |                                              |                           |          |
|---------------------------------|---------|-----------|----------------------------------------------|---------------------------|----------|
| Modulation                      | RB Size | RB Offset | Channel                                      | MPR Allowed per 3GPP [dB] | MPR [dB] |
|                                 |         |           | 376500 (1882.5 MHz)<br>Conducted Power [dBm] |                           |          |
| DFT-s-OFDM QPSK                 | 1       | 1         | 22.78                                        | 0                         | 0.0      |
|                                 | 1       | 108       | 22.62                                        |                           | 0.0      |
|                                 | 1       | 214       | 22.61                                        |                           | 0.0      |
|                                 | 108     | 0         | 21.68                                        | 0-1                       | 1.0      |
|                                 | 108     | 54        | 22.68                                        | 0                         | 0.0      |
|                                 | 108     | 108       | 21.53                                        | 0-1                       | 1.0      |
|                                 | 216     | 0         | 21.65                                        |                           | 1.0      |
| DFT-s-OFDM 16QAM                | 1       | 1         | 21.72                                        | 0-1                       | 1.0      |
| CP-OFDM QPSK                    | 1       | 1         | 21.26                                        | 0-1.5                     | 1.5      |

|                                             |                                |                                   |
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Table 10-43

NR Band n25 Ant F Measured  $P_{Limit}$  for DSI = 0 (Body-worn, Hotspot or Phablet) - 40 MHz Bandwidth

| NR Band n25<br>40 MHz Bandwidth |         |           |                                              |                           |          |
|---------------------------------|---------|-----------|----------------------------------------------|---------------------------|----------|
| Modulation                      | RB Size | RB Offset | Channel                                      | MPR Allowed per 3GPP [dB] | MPR [dB] |
|                                 |         |           | 376500 (1882.5 MHz)<br>Conducted Power [dBm] |                           |          |
| DFT-s-OFDM QPSK                 | 1       | 1         | 19.70                                        | 0                         | 0.0      |
|                                 | 1       | 108       | 19.73                                        |                           | 0.0      |
|                                 | 1       | 214       | <b>19.85</b>                                 |                           | 0.0      |
|                                 | 108     | 0         | 19.62                                        | 0-1                       | 0.0      |
|                                 | 108     | 54        | <b>19.83</b>                                 | 0                         | 0.0      |
|                                 | 108     | 108       | 19.69                                        | 0-1                       | 0.0      |
|                                 | 216     | 0         | 19.78                                        |                           | 0.0      |
| DFT-s-OFDM 16QAM                | 1       | 1         | 19.65                                        | 0-1                       | 0.0      |
| CP-OFDM QPSK                    | 1       | 1         | 19.84                                        | 0-1.5                     | 0.0      |

Table 10-44

NR Band n25 Ant F Measured  $P_{Limit}$  for DSI = 1 (Head) - 40 MHz Bandwidth

| NR Band n25<br>40 MHz Bandwidth |         |           |                                              |                           |          |
|---------------------------------|---------|-----------|----------------------------------------------|---------------------------|----------|
| Modulation                      | RB Size | RB Offset | Channel                                      | MPR Allowed per 3GPP [dB] | MPR [dB] |
|                                 |         |           | 376500 (1882.5 MHz)<br>Conducted Power [dBm] |                           |          |
| DFT-s-OFDM QPSK                 | 1       | 1         | 18.64                                        | 0                         | 0.0      |
|                                 | 1       | 108       | 18.69                                        |                           | 0.0      |
|                                 | 1       | 214       | <b>18.90</b>                                 |                           | 0.0      |
|                                 | 108     | 0         | 18.53                                        | 0-1                       | 0.0      |
|                                 | 108     | 54        | <b>18.72</b>                                 | 0                         | 0.0      |
|                                 | 108     | 108       | 18.62                                        | 0-1                       | 0.0      |
|                                 | 216     | 0         | 18.64                                        |                           | 0.0      |
| DFT-s-OFDM 16QAM                | 1       | 1         | 18.57                                        | 0-1                       | 0.0      |
| CP-OFDM QPSK                    | 1       | 1         | 18.84                                        | 0-1.5                     | 0.0      |

|                                             |                                |                                   |
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#### 10.4.4 NR Band n41

Table 10-45

NR Band n41 PC2 Antenna F Path 1 Measured  $P_{Limit}$  for DSI = 0 (Body-worn, Hotspot or Phablet)  
- 100 MHz Bandwidth

| NR Band n41<br>100 MHz Bandwidth |         |           |                                               |                           |          |
|----------------------------------|---------|-----------|-----------------------------------------------|---------------------------|----------|
| Modulation                       | RB Size | RB Offset | Channel                                       | MPR Allowed per 3GPP [dB] | MPR [dB] |
|                                  |         |           | 518598 (2592.99 MHz)<br>Conducted Power [dBm] |                           |          |
| DFT-s-OFDM QPSK                  | 1       | 1         | 19.49                                         | 0                         | 0.0      |
|                                  | 1       | 137       | <b>19.50</b>                                  |                           | 0.0      |
|                                  | 1       | 271       | 19.37                                         |                           | 0.0      |
|                                  | 135     | 0         | 19.47                                         | 0-1                       | 0.0      |
|                                  | 135     | 69        | <b>19.49</b>                                  | 0                         | 0.0      |
|                                  | 135     | 138       | 19.42                                         | 0-1                       | 0.0      |
|                                  | 270     | 0         | 19.41                                         |                           | 0.0      |
| DFT-s-OFDM 16QAM                 | 1       | 1         | 19.48                                         | 0-1                       | 0.0      |
| CP-OFDM QPSK                     | 1       | 1         | 19.48                                         | 0-1.5                     | 0.0      |

Table 10-46

NR Band n41 PC2 Antenna F Path 1 Measured  $P_{Limit}$  for DSI = 1 (Head) - 100 MHz Bandwidth

| NR Band n41<br>100 MHz Bandwidth |         |           |                                               |                           |          |
|----------------------------------|---------|-----------|-----------------------------------------------|---------------------------|----------|
| Modulation                       | RB Size | RB Offset | Channel                                       | MPR Allowed per 3GPP [dB] | MPR [dB] |
|                                  |         |           | 518598 (2592.99 MHz)<br>Conducted Power [dBm] |                           |          |
| DFT-s-OFDM QPSK                  | 1       | 1         | 17.03                                         | 0                         | 0.0      |
|                                  | 1       | 137       | <b>17.17</b>                                  |                           | 0.0      |
|                                  | 1       | 271       | 16.94                                         |                           | 0.0      |
|                                  | 135     | 0         | 17.08                                         | 0-1                       | 0.0      |
|                                  | 135     | 69        | <b>17.14</b>                                  | 0                         | 0.0      |
|                                  | 135     | 138       | 17.05                                         | 0-1                       | 0.0      |
|                                  | 270     | 0         | 17.13                                         |                           | 0.0      |
| DFT-s-OFDM 16QAM                 | 1       | 1         | 17.08                                         | 0-1                       | 0.0      |
| CP-OFDM QPSK                     | 1       | 1         | 17.11                                         | 0-1.5                     | 0.0      |

|                                             |                                |                                   |
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Table 10-47

NR Band n41 PC2 Antenna B & E & D Path 1 Measured  $P_{Limit}$  for DSI = 0 (Body-worn, Hotspot or Phablet) - 100 MHz Bandwidth

| NR Band n41<br>100 MHz Bandwidth |                          |
|----------------------------------|--------------------------|
| Channel                          |                          |
| Antenna                          | 518598<br>(2592.99 MHz)  |
|                                  | Conducted<br>Power [dBm] |
| SRS #2 Ant B                     | 19.50                    |
| SRS #3 Ant E                     | 16.17                    |
| SRS #4 Ant D                     | 16.58                    |

Table 10-48

NR Band n41 PC2 Antenna B & E & D Path 1 Measured  $P_{Limit}$  for DSI = 1 (Head) - 100 MHz Bandwidth

| NR Band n41<br>100 MHz Bandwidth |                          |
|----------------------------------|--------------------------|
| Channel                          |                          |
| Antenna                          | 518598<br>(2592.99 MHz)  |
|                                  | Conducted<br>Power [dBm] |
| SRS #2 Ant B                     | 17.03                    |
| SRS #3 Ant E                     | 13.79                    |
| SRS #4 Ant D                     | 14.05                    |

|                                             |                                |                                   |
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**Table 10-49**  
**NR Band n41 PC2 Antenna B Path 2 Measured  $P_{Limit}$  for DSI = 0 (Body-worn, Hotspot or Phablet)**  
**- 100 MHz Bandwidth**

| NR Band n41<br>100 MHz Bandwidth |         |           |                       |                           |          |
|----------------------------------|---------|-----------|-----------------------|---------------------------|----------|
| Modulation                       | RB Size | RB Offset | Channel               | MPR Allowed per 3GPP [dB] | MPR [dB] |
|                                  |         |           | 518598 (2592.99 MHz)  |                           |          |
|                                  |         |           | Conducted Power [dBm] |                           |          |
| DFT-s-OFDM QPSK                  | 1       | 1         | 20.77                 | 0                         | 0.0      |
|                                  | 1       | 137       | <b>20.95</b>          |                           | 0.0      |
|                                  | 1       | 271       | 20.93                 |                           | 0.0      |
|                                  | 135     | 0         | 20.87                 | 0-1                       | 0.0      |
|                                  | 135     | 69        | <b>20.93</b>          | 0                         | 0.0      |
|                                  | 135     | 138       | 20.91                 | 0-1                       | 0.0      |
|                                  | 270     | 0         | 20.89                 |                           | 0.0      |
| DFT-s-OFDM 16QAM                 | 1       | 1         | 20.91                 | 0-1                       | 0.0      |
| CP-OFDM QPSK                     | 1       | 1         | 20.92                 | 0-1.5                     | 0.0      |

**Table 10-50**  
**NR Band n41 PC2 Antenna B Path 2 Measured  $P_{Limit}$  for DSI = 1 (Head) - 100 MHz Bandwidth**

| NR Band n41<br>100 MHz Bandwidth |         |           |                       |                           |          |
|----------------------------------|---------|-----------|-----------------------|---------------------------|----------|
| Modulation                       | RB Size | RB Offset | Channel               | MPR Allowed per 3GPP [dB] | MPR [dB] |
|                                  |         |           | 518598 (2592.99 MHz)  |                           |          |
|                                  |         |           | Conducted Power [dBm] |                           |          |
| DFT-s-OFDM QPSK                  | 1       | 1         | 21.78                 | 0                         | 0.0      |
|                                  | 1       | 137       | <b>21.87</b>          |                           | 0.0      |
|                                  | 1       | 271       | 21.81                 |                           | 0.0      |
|                                  | 135     | 0         | 21.81                 | 0-1                       | 0.0      |
|                                  | 135     | 69        | <b>21.88</b>          | 0                         | 0.0      |
|                                  | 135     | 138       | 21.85                 | 0-1                       | 0.0      |
|                                  | 270     | 0         | 21.81                 |                           | 0.0      |
| DFT-s-OFDM 16QAM                 | 1       | 1         | 21.81                 | 0-1                       | 0.0      |
| CP-OFDM QPSK                     | 1       | 1         | 21.84                 | 0-1.5                     | 0.0      |

|                                             |                                |                                   |
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Table 10-51

NR Band n41 PC2 Antenna F & D Path 2 Measured  $P_{Limit}$  for DSI = 0 (Body-worn, Hotspot or Phablet) and  
NR Band n41 PC2 Antenna E Path 2 Measured  $P_{Limit}$  for all DSI – 100 MHz Bandwidth

| NR Band n41<br>100 MHz Bandwidth |                          |
|----------------------------------|--------------------------|
| Channel                          |                          |
| Antenna                          | 518598<br>(2592.99 MHz)  |
|                                  | Conducted<br>Power [dBm] |
| SRS #2 Ant F                     | 19.20                    |
| SRS #3 Ant D                     | 18.38                    |
| SRS #4 Ant E                     | 16.33                    |

Table 10-52

NR Band n41 PC2 Antenna F & D Path 2 Measured  $P_{Limit}$  for DSI = 1 (Head) - 100 MHz Bandwidth

| NR Band n41<br>100 MHz Bandwidth |                          |
|----------------------------------|--------------------------|
| Channel                          |                          |
| Antenna                          | 518598<br>(2592.99 MHz)  |
|                                  | Conducted<br>Power [dBm] |
| SRS #2 Ant F                     | 17.27                    |
| SRS #3 Ant D                     | 19.45                    |

|                                             |                                |                                   |
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## 10.4.5 NR Band n77

Table 10-53

NR Band n77 DoD Antenna F Measured  $P_{Limit}$  for DSI = 0 (Body-worn, Hotspot or Phablet)  
- 100 MHz Bandwidth

| NR Band n77 DoD<br>100 MHz Bandwidth |         |           |                                               |                           |          |
|--------------------------------------|---------|-----------|-----------------------------------------------|---------------------------|----------|
| Modulation                           | RB Size | RB Offset | Channel                                       | MPR Allowed per 3GPP [dB] | MPR [dB] |
|                                      |         |           | 633334 (3500.01 MHz)<br>Conducted Power [dBm] |                           |          |
| DFT-s-OFDM QPSK                      | 1       | 1         | 19.12                                         | 0                         | 0.0      |
|                                      | 1       | 137       | 18.90                                         |                           | 0.0      |
|                                      | 1       | 271       | <b>19.31</b>                                  |                           | 0.0      |
|                                      | 135     | 0         | 19.03                                         | 0-1                       | 0.0      |
|                                      | 135     | 69        | 18.95                                         | 0                         | 0.0      |
|                                      | 135     | 138       | <b>19.07</b>                                  | 0-1                       | 0.0      |
|                                      | 270     | 0         | 19.02                                         |                           | 0.0      |
| DFT-s-OFDM 16QAM                     | 1       | 1         | 19.02                                         | 0-1                       | 0.0      |
| CP-OFDM QPSK                         | 1       | 1         | 19.02                                         | 0-1.5                     | 0.0      |

Table 10-54

NR Band n77 DoD Antenna F Measured  $P_{Limit}$  for DSI = 1 (Head) - 100 MHz Bandwidth

| NR Band n77 DoD<br>100 MHz Bandwidth |         |           |                                               |                           |          |
|--------------------------------------|---------|-----------|-----------------------------------------------|---------------------------|----------|
| Modulation                           | RB Size | RB Offset | Channel                                       | MPR Allowed per 3GPP [dB] | MPR [dB] |
|                                      |         |           | 633334 (3500.01 MHz)<br>Conducted Power [dBm] |                           |          |
| DFT-s-OFDM QPSK                      | 1       | 1         | 15.09                                         | 0                         | 0.0      |
|                                      | 1       | 137       | 14.86                                         |                           | 0.0      |
|                                      | 1       | 271       | <b>15.22</b>                                  |                           | 0.0      |
|                                      | 135     | 0         | 14.97                                         | 0-1                       | 0.0      |
|                                      | 135     | 69        | 14.94                                         | 0                         | 0.0      |
|                                      | 135     | 138       | <b>15.15</b>                                  | 0-1                       | 0.0      |
|                                      | 270     | 0         | 15.01                                         |                           | 0.0      |
| DFT-s-OFDM 16QAM                     | 1       | 1         | 15.02                                         | 0-1                       | 0.0      |
| CP-OFDM QPSK                         | 1       | 1         | 15.05                                         | 0-1.5                     | 0.0      |

|                                             |                                |                                   |
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Table 10-55

NR Band n77 DoD Antenna C, I, D Measured  $P_{Limit}$  for DSI = 0 (Body-worn, Hotspot or Phablet)  
- 100 MHz Bandwidth

| NR Band n77 DoD<br>100 MHz Bandwidth |                          |
|--------------------------------------|--------------------------|
| Channel                              |                          |
| Antenna                              | 633334<br>(3500.01 MHz)  |
|                                      | Conducted<br>Power [dBm] |
| SRS #2 Ant C                         | 14.45                    |
| SRS #3 Ant I                         | 18.49                    |
| SRS #4 Ant D                         | 14.76                    |

Table 10-56

NR Band n77 DoD Antenna C, I, D Measured  $P_{Limit}$  for DSI = 1 (Head) - 100 MHz Bandwidth

| NR Band n77 DoD<br>100 MHz Bandwidth |                          |
|--------------------------------------|--------------------------|
| Channel                              |                          |
| Antenna                              | 633334<br>(3500.01 MHz)  |
|                                      | Conducted<br>Power [dBm] |
| SRS #2 Ant C                         | 10.51                    |
| SRS #3 Ant I                         | 14.58                    |
| SRS #4 Ant D                         | 10.71                    |

|                                             |                                |                                   |
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**Table 10-57**  
**NR Band n77 Antenna F Measured  $P_{Limit}$  for DSI = 0 (Body-worn, Hotspot or Phablet)**  
**- 100 MHz Bandwidth**

| NR Band n77<br>100 MHz Bandwidth |         |              |                       |                      |                                       |             |
|----------------------------------|---------|--------------|-----------------------|----------------------|---------------------------------------|-------------|
|                                  |         |              | Channel               |                      | MPR<br>Allowed<br>per<br>3GPP<br>[dB] | MPR<br>[dB] |
| Modulation                       | RB Size | RB<br>Offset | 650000<br>(3750 MHz)  | 662000<br>(3930 MHz) |                                       |             |
|                                  |         |              | Conducted Power [dBm] |                      |                                       |             |
| DFT-s-OFDM<br>QPSK               | 1       | 1            | 19.08                 | <b>19.40</b>         | 0                                     | 0.0         |
|                                  | 1       | 137          | 18.89                 | 19.16                |                                       | 0.0         |
|                                  | 1       | 271          | 19.05                 | 19.05                |                                       | 0.0         |
|                                  | 135     | 0            | 18.98                 | <b>19.28</b>         | 0-1                                   | 0.0         |
|                                  | 135     | 69           | 18.87                 | 19.25                | 0                                     | 0.0         |
|                                  | 135     | 138          | 18.85                 | 19.13                | 0-1                                   | 0.0         |
|                                  | 270     | 0            | 18.88                 | 19.17                |                                       | 0.0         |
| DFT-s-OFDM<br>16QAM              | 1       | 1            | 18.86                 | 19.26                | 0-1                                   | 0.0         |
| CP-OFDM<br>QPSK                  | 1       | 1            | 18.90                 | 19.27                | 0-1.5                                 | 0.0         |

**Table 10-58**  
**NR Band n77 Antenna F Measured  $P_{Limit}$  for DSI = 1 (Head) - 100 MHz Bandwidth**

| NR Band n77<br>100 MHz Bandwidth |         |              |                       |                      |                                       |             |
|----------------------------------|---------|--------------|-----------------------|----------------------|---------------------------------------|-------------|
|                                  |         |              | Channel               |                      | MPR<br>Allowed<br>per<br>3GPP<br>[dB] | MPR<br>[dB] |
| Modulation                       | RB Size | RB<br>Offset | 650000<br>(3750 MHz)  | 662000<br>(3930 MHz) |                                       |             |
|                                  |         |              | Conducted Power [dBm] |                      |                                       |             |
| DFT-s-OFDM<br>QPSK               | 1       | 1            | 15.04                 | <b>15.32</b>         | 0                                     | 0.0         |
|                                  | 1       | 137          | 14.80                 | 15.12                |                                       | 0.0         |
|                                  | 1       | 271          | 14.99                 | 15.04                |                                       | 0.0         |
|                                  | 135     | 0            | 14.95                 | <b>15.19</b>         | 0-1                                   | 0.0         |
|                                  | 135     | 69           | 14.87                 | 15.15                | 0                                     | 0.0         |
|                                  | 135     | 138          | 14.85                 | 15.10                | 0-1                                   | 0.0         |
|                                  | 270     | 0            | 14.88                 | 15.15                |                                       | 0.0         |
| DFT-s-OFDM<br>16QAM              | 1       | 1            | 14.83                 | 15.11                | 0-1                                   | 0.0         |
| CP-OFDM<br>QPSK                  | 1       | 1            | 14.94                 | 15.18                | 0-1.5                                 | 0.0         |

|                                             |                                |                                   |
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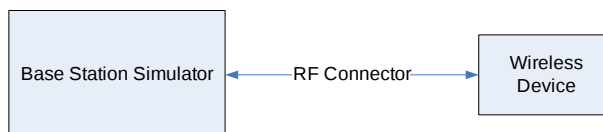
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**Table 10-59**  
**NR Band n77 Antenna C, I, D Measured  $P_{Limit}$  for DSI = 0 (Body-worn, Hotspot or Phablet)**  
**- 100 MHz Bandwidth**

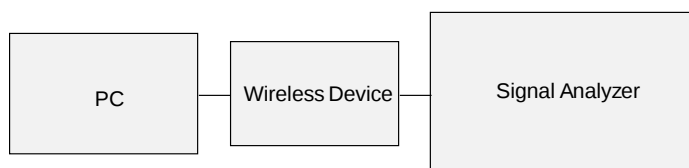
| NR Band n77<br>100 MHz Bandwidth |                       |                      |
|----------------------------------|-----------------------|----------------------|
| Channel                          |                       |                      |
| Antenna                          | 650000<br>(3750 MHz)  | 662000<br>(3930 MHz) |
|                                  | Conducted Power [dBm] |                      |
| SRS #2 Ant C                     | 13.47                 | <b>13.69</b>         |
| SRS #3 Ant I                     | 18.63                 | <b>19.34</b>         |
| SRS #4 Ant D                     | <b>14.34</b>          | 13.92                |

**Table 10-60**  
**NR Band n77 Antenna C, I, D Measured  $P_{Limit}$  for DSI = 1 (Head) - 100 MHz Bandwidth**

| NR Band n77<br>100 MHz Bandwidth |                       |                      |
|----------------------------------|-----------------------|----------------------|
| Channel                          |                       |                      |
| Antenna                          | 650000<br>(3750 MHz)  | 662000<br>(3930 MHz) |
|                                  | Conducted Power [dBm] |                      |
| SRS #2 Ant C                     | 9.46                  | <b>9.68</b>          |
| SRS #3 Ant I                     | 14.62                 | <b>15.35</b>         |
| SRS #4 Ant D                     | <b>10.30</b>          | 9.88                 |



**Figure 10-4**  
**Power Measurement Setup – NR FDD**



**Figure 10-5**  
**Power Measurement Setup – NR TDD**

|                                                    |                                       |                                          |
|----------------------------------------------------|---------------------------------------|------------------------------------------|
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## 10.5 WLAN Conducted Powers

Table 10-61

2.4 GHz WLAN Measured for Data Referencing  $P_{Limit}$  Average RF Power for DSI = 1 (Head) – Ant H

| 2.4GHz WIFI (20MHz 802.11b SISO ANT1) |         |          |                       |
|---------------------------------------|---------|----------|-----------------------|
| Freq. [MHz]                           | Channel | Detector | Conducted Power [dBm] |
| 2412                                  | 1       | Average  | 16.80                 |
| 2437                                  | 6       |          | 16.90                 |
| 2462                                  | 11      |          | 16.60                 |

Table 10-62

2.4 GHz WLAN Measured for Data Referencing  $P_{Limit}$  Average RF Power for DSI = 1 (Head) – Ant J

| 2.4GHz WIFI (20MHz 802.11b SISO ANT2) |         |          |                       |
|---------------------------------------|---------|----------|-----------------------|
| Freq. [MHz]                           | Channel | Detector | Conducted Power [dBm] |
| 2412                                  | 1       | Average  | 16.99                 |
| 2437                                  | 6       |          | 16.80                 |
| 2462                                  | 11      |          | 16.80                 |

Table 10-63

2.4 GHz WLAN Measured for Data Referencing  $P_{Limit}$  Average RF Power for DSI = 1 (Head) – MIMO

| 2.4GHz WIFI (20MHz 802.11g MIMO) |         |          |                       |       |       |
|----------------------------------|---------|----------|-----------------------|-------|-------|
| Freq [MHz]                       | Channel | Detector | Conducted Power [dBm] |       |       |
|                                  |         |          | ANT1                  | ANT2  | MIMO  |
| 2412                             | 1       | Average  | 15.87                 | 16.87 | 19.41 |
| 2437                             | 6       |          | 15.49                 | 16.59 | 19.09 |
| 2462                             | 11      |          | 15.90                 | 16.53 | 19.24 |

Table 10-64

2.4 GHz WLAN Measured for Data Referencing  $P_{Max}$  Average RF Power for DSI = 0 (Body-worn, Hotspot or Phablet) – Ant H

| 2.4GHz WIFI (20MHz 802.11b SISO ANT1) |         |          |                       |
|---------------------------------------|---------|----------|-----------------------|
| Freq. [MHz]                           | Channel | Detector | Conducted Power [dBm] |
| 2412                                  | 1       | Average  | 19.60                 |
| 2437                                  | 6       |          | 19.80                 |
| 2462                                  | 11      |          | 19.97                 |

Table 10-65

2.4 GHz WLAN Measured for Data Referencing  $P_{Max}$  Average RF Power for DSI = 0 (Body-worn, Hotspot or Phablet) – Ant J

| 2.4GHz WIFI (20MHz 802.11b SISO ANT2) |         |          |                       |
|---------------------------------------|---------|----------|-----------------------|
| Freq. [MHz]                           | Channel | Detector | Conducted Power [dBm] |
| 2412                                  | 1       | Average  | 19.30                 |
| 2437                                  | 6       |          | 19.70                 |
| 2462                                  | 11      |          | 19.50                 |

|                                             |                                |                                   |
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**Table 10-66**

**2.4 GHz WLAN Measured for Data Referencing  $P_{Max}$  Average RF Power for DSI = 0 (Body-worn, Hotspot or Phablet) – MIMO**

| 2.4GHz WIFI (20MHz 802.11g MIMO) |         |          |                       |       |       |
|----------------------------------|---------|----------|-----------------------|-------|-------|
| Freq [MHz]                       | Channel | Detector | Conducted Power [dBm] |       |       |
|                                  |         |          | ANT1                  | ANT2  | MIMO  |
| 2412                             | 1       | Average  | 17.56                 | 17.33 | 20.46 |
| 2437                             | 6       |          | 17.37                 | 17.24 | 20.32 |
| 2462                             | 11      |          | 17.61                 | 17.27 | 20.45 |

**Table 10-67**

**5 GHz WLAN Measured for Data Referencing  $P_{Limit}$  Average RF Power for all DSI – Ant H**

| 5GHz WIFI (80MHz 802.11ac SISO ANT1) |             |         |                            |
|--------------------------------------|-------------|---------|----------------------------|
| Band                                 | Freq. [MHz] | Channel | Avg. Conducted Power [dBm] |
| UNII-1                               | 5210        | 42      | 14.96                      |
| UNII-2A                              | 5290        | 58      | 15.62                      |
| UNII-2C                              | 5530        | 106     | 15.23                      |
|                                      | 5610        | 122     | 14.95                      |
|                                      | 5690        | 138     | 14.85                      |
| UNII-3                               | 5775        | 155     | 15.20                      |
| UNII-4                               | 5885        | 171     | 15.55                      |

**Table 10-68**

**5 GHz WLAN Measured for Data Referencing  $P_{Limit}$  Average RF Power for all DSI – Ant E**

| 5GHz WIFI (80MHz 802.11ac SISO ANT2) |             |         |                            |
|--------------------------------------|-------------|---------|----------------------------|
| Band                                 | Freq. [MHz] | Channel | Avg. Conducted Power [dBm] |
| UNII-1                               | 5210        | 42      | 15.37                      |
| UNII-2A                              | 5290        | 58      | 15.52                      |
| UNII-2C                              | 5530        | 106     | 15.31                      |
|                                      | 5610        | 122     | 15.82                      |
|                                      | 5690        | 138     | 15.67                      |
| UNII-3                               | 5775        | 155     | 15.84                      |
| UNII-4                               | 5885        | 171     | 15.96                      |

**Table 10-69**

**5 GHz WLAN Measured for Data Referencing  $P_{Limit}$  Average RF Power for all DSI – MIMO**

| 5GHz WIFI (80MHz 802.11ac MIMO) |            |         |                             |       |       |
|---------------------------------|------------|---------|-----------------------------|-------|-------|
| Band                            | Freq [MHz] | Channel | Avg. Conducted Powers [dBm] |       |       |
|                                 |            |         | ANT1                        | ANT2  | MIMO  |
| UNII-1                          | 5210       | 42      | 15.08                       | 15.29 | 18.20 |
| UNII-2A                         | 5290       | 58      | 15.68                       | 15.36 | 18.53 |
| UNII-2C                         | 5530       | 106     | 14.70                       | 15.49 | 18.12 |
|                                 | 5610       | 122     | 14.36                       | 15.76 | 18.13 |
|                                 | 5690       | 138     | 14.15                       | 15.66 | 17.98 |
| UNII-3                          | 5775       | 155     | 14.60                       | 15.88 | 18.30 |
| UNII-4                          | 5885       | 171     | 14.94                       | 15.93 | 18.47 |

|                                             |                                |                                   |
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**Table 10-70**

**6 GHz WLAN Measured for Data Referencing  $P_{Limit}$  Average RF Power for DSI = 0 (Body-worn or Phablet),  
– Ant H**

| 6GHz WIFI (160MHz 802.11ax SISO ANT1) |             |         |                            |
|---------------------------------------|-------------|---------|----------------------------|
| Band                                  | Freq. [MHz] | Channel | Avg. Conducted Power [dBm] |
| UNII-5                                | 6025        | 15      | 8.75                       |
|                                       | 6345        | 79      | 8.55                       |
| UNII-6                                | 6505        | 111     | 8.60                       |
| UNII-7                                | 6665        | 143     | 8.50                       |
| UNII-8                                | 6985        | 207     | 8.74                       |

**Table 10-71**

**6 GHz WLAN Measured for Data Referencing  $P_{Limit}$  Average RF Power for DSI = 0 (Body-worn or Phablet),  
– Ant E**

| 6GHz WIFI (160MHz 802.11ax SISO ANT2) |             |         |                            |
|---------------------------------------|-------------|---------|----------------------------|
| Band                                  | Freq. [MHz] | Channel | Avg. Conducted Power [dBm] |
| UNII-5                                | 6025        | 15      | 8.98                       |
|                                       | 6345        | 79      | 8.99                       |
| UNII-6                                | 6505        | 111     | 8.98                       |
| UNII-7                                | 6665        | 143     | 8.19                       |
| UNII-8                                | 6985        | 207     | 8.70                       |

**Table 10-72**

**6 GHz WLAN Measured for Data Referencing  $P_{Limit}$  Average RF Power for DSI = 0 (Body-worn or Phablet),  
– MIMO**

| 6GHz WIFI (160MHz 802.11ax MIMO) |            |         |                             |      |       |
|----------------------------------|------------|---------|-----------------------------|------|-------|
| Band                             | Freq [MHz] | Channel | Avg. Conducted Powers [dBm] |      |       |
|                                  |            |         | ANT1                        | ANT2 | MIMO  |
| UNII-5                           | 6025       | 15      | 8.80                        | 8.52 | 11.67 |
|                                  | 6345       | 79      | 8.57                        | 8.94 | 11.77 |
| UNII-6                           | 6505       | 111     | 8.35                        | 8.84 | 11.61 |
| UNII-7                           | 6665       | 143     | 8.00                        | 8.56 | 11.30 |
| UNII-8                           | 6985       | 207     | 8.14                        | 8.90 | 11.55 |

|                                             |                                |                                   |
|---------------------------------------------|--------------------------------|-----------------------------------|
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**Table 10-73**
**6 GHz WLAN Measured for Data Referencing  $P_{Max}$  Average RF Power for DSI = 1 (Head) – Ant H**

| 6GHz WIFI (40MHz 802.11ax SISO ANT1) |             |         |                            | 6GHz WIFI (80MHz 802.11ax SISO ANT1) |             |         |                            |
|--------------------------------------|-------------|---------|----------------------------|--------------------------------------|-------------|---------|----------------------------|
| Band                                 | Freq. [MHz] | Channel | Avg. Conducted Power [dBm] | Band                                 | Freq. [MHz] | Channel | Avg. Conducted Power [dBm] |
| UNII-5                               | 5965        | 3       | 16.87                      | UNII-6                               | 6465        | 103     | 15.56                      |
|                                      | 6285        | 67      | 16.75                      |                                      | 7025        | 215     | 15.30                      |
| UNII-7                               | 6685        | 147     | 16.16                      |                                      |             |         |                            |

**Table 10-74**
**6 GHz WLAN Measured for Data Referencing  $P_{Max}$  Average RF Power for DSI = 1 (Head) – Ant E**

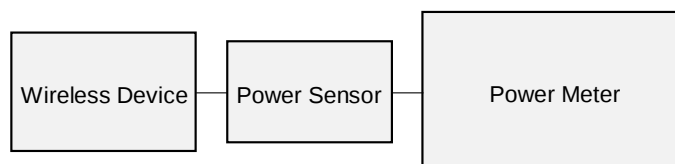
| 6GHz WIFI (40MHz 802.11ax SISO ANT2) |             |         |                            | 6GHz WIFI (80MHz 802.11ax SISO ANT2) |             |         |                            |
|--------------------------------------|-------------|---------|----------------------------|--------------------------------------|-------------|---------|----------------------------|
| Band                                 | Freq. [MHz] | Channel | Avg. Conducted Power [dBm] | Band                                 | Freq. [MHz] | Channel | Avg. Conducted Power [dBm] |
| UNII-5                               | 5965        | 3       | 16.79                      | UNII-6                               | 6465        | 103     | 15.28                      |
|                                      | 6285        | 67      | 16.49                      |                                      | 7025        | 215     | 14.95                      |
| UNII-7                               | 6685        | 147     | 16.00                      |                                      |             |         |                            |

**Table 10-75**
**6 GHz WLAN Measured for Data Referencing  $P_{Max}$  Average RF Power for DSI = 1 (Head) – MIMO**

| 6GHz WIFI (40MHz 802.11ax MIMO) |            |         |                             |       |       |
|---------------------------------|------------|---------|-----------------------------|-------|-------|
| Band                            | Freq [MHz] | Channel | Avg. Conducted Powers [dBm] |       |       |
|                                 |            |         | ANT1                        | ANT2  | MIMO  |
| UNII-5                          | 5965       | 3       | 16.93                       | 16.64 | 19.80 |
|                                 | 6285       | 67      | 16.80                       | 16.68 | 19.75 |
| UNII-7                          | 6685       | 147     | 16.64                       | 16.52 | 19.59 |
| 6GHz WIFI (80MHz 802.11ax MIMO) |            |         |                             |       |       |
| Band                            | Freq [MHz] | Channel | Avg. Conducted Powers [dBm] |       |       |
|                                 |            |         | ANT1                        | ANT2  | MIMO  |
| UNII-6                          | 6465       | 103     | 15.54                       | 15.20 | 18.38 |
| UNII-8                          | 7025       | 215     | 15.37                       | 15.03 | 18.21 |

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

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



**Figure 10-6**  
**Power Measurement Setup**

|                                                    |                                       |                                          |
|----------------------------------------------------|---------------------------------------|------------------------------------------|
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## 10.6 Bluetooth Conducted Powers

Table 10-76

Bluetooth Measured for Data Referencing  $P_{Max}$  Average RF Power for all DSI – Ant H

| Frequency [MHz] | Data Rate [Mbps] | Mod. | Power Scheme | Channel No. | Avg Conducted Power |        |
|-----------------|------------------|------|--------------|-------------|---------------------|--------|
|                 |                  |      |              |             | [dBm]               | [mW]   |
| 2402            | 1.0              | GFSK | ePA          | 0           | 16.96               | 49.659 |
| 2441            | 1.0              | GFSK | ePA          | 39          | 18.38               | 68.865 |
| 2480            | 1.0              | GFSK | ePA          | 78          | 17.47               | 55.847 |

Table 10-77

Bluetooth Measured for Data Referencing  $P_{Max}$  Average RF Power for all DSI – Ant J

| Frequency [MHz] | Data Rate [Mbps] | Mod. | Power Scheme | Channel No. | Avg Conducted Power |        |
|-----------------|------------------|------|--------------|-------------|---------------------|--------|
|                 |                  |      |              |             | [dBm]               | [mW]   |
| 2402            | 1.0              | GFSK | ePA          | 0           | 17.95               | 62.373 |
| 2441            | 1.0              | GFSK | ePA          | 39          | 18.48               | 70.469 |
| 2480            | 1.0              | GFSK | ePA          | 78          | 17.52               | 56.494 |

Table 10-78

Bluetooth  $P_{Limit}$  Average RF Power for all DSI – MIMO

| Frequency [MHz] | Data Rate [Mbps] | Mod.           | Power Scheme | Channel No. | ANT1 Avg Conducted Power |        | ANT2 Avg Conducted Power |        | Dual Avg Conducted Power |        |
|-----------------|------------------|----------------|--------------|-------------|--------------------------|--------|--------------------------|--------|--------------------------|--------|
|                 |                  |                |              |             | [dBm]                    | [mW]   | [dBm]                    | [mW]   | [dBm]                    | [mW]   |
| 2402            | 1.0              | GFSK           | iPA          | 0           | 12.48                    | 17.701 | 12.36                    | 17.219 | 15.43                    | 34.920 |
| 2441            | 1.0              | GFSK           | iPA          | 39          | 13.70                    | 23.442 | 12.72                    | 18.707 | 16.25                    | 42.149 |
| 2480            | 1.0              | GFSK           | iPA          | 78          | 13.05                    | 20.184 | 12.07                    | 16.106 | 15.60                    | 36.290 |
| 2402            | 2.0              | $\pi/4$ -DQPSK | iPA          | 0           | 9.53                     | 8.974  | 9.28                     | 8.472  | 12.42                    | 17.447 |
| 2441            | 2.0              | $\pi/4$ -DQPSK | iPA          | 39          | 10.77                    | 11.940 | 9.55                     | 9.016  | 13.21                    | 20.956 |
| 2480            | 2.0              | $\pi/4$ -DQPSK | iPA          | 78          | 10.05                    | 10.116 | 8.97                     | 7.889  | 12.55                    | 18.004 |
| 2402            | 3.0              | 8DPSK          | iPA          | 0           | 9.82                     | 9.594  | 9.28                     | 8.472  | 12.57                    | 18.066 |
| 2441            | 3.0              | 8DPSK          | iPA          | 39          | 10.76                    | 11.912 | 9.54                     | 8.995  | 13.20                    | 20.907 |
| 2480            | 3.0              | 8DPSK          | iPA          | 78          | 10.07                    | 10.162 | 8.99                     | 7.925  | 12.57                    | 18.088 |

|                                             |                                |                                   |
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**Table 10-79**  
**Bluetooth LE Measured for Data Referencing  $P_{Max}$  Average RF Power for all DSI – Ant H**

| Frequency<br>[MHz] | Data Rate<br>[Mbps] | Channel<br>No. | Bluetooth<br>Mode | Peak Conducted<br>Power |         |
|--------------------|---------------------|----------------|-------------------|-------------------------|---------|
|                    |                     |                |                   | [dBm]                   | [mW]    |
| 2402               | 1 Mbps              | 0              | LE                | 19.39                   | 86.816  |
| 2440               | 1 Mbps              | 19             | LE                | 20.15                   | 103.610 |
| 2480               | 1 Mbps              | 39             | LE                | 19.27                   | 84.450  |

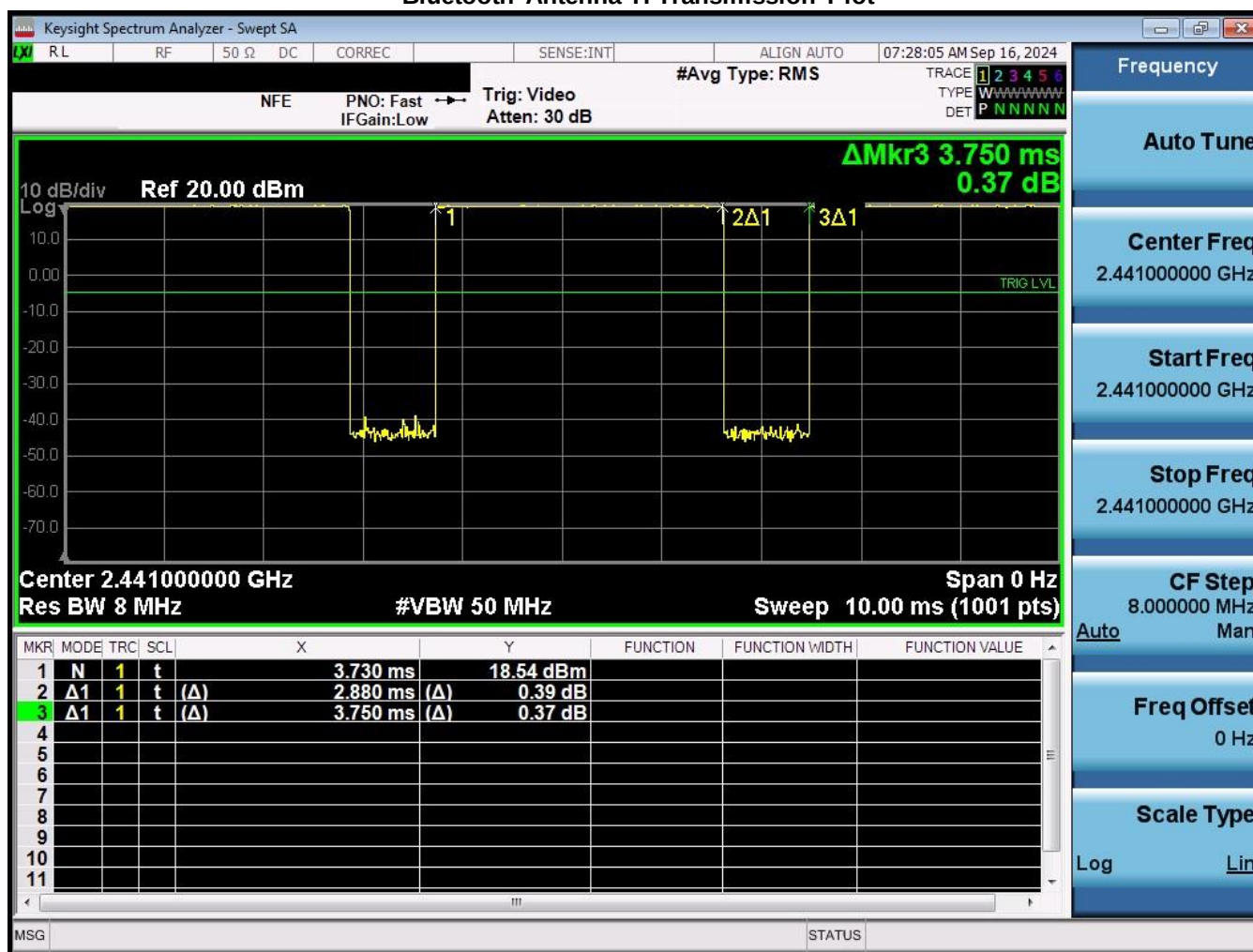
**Table 10-80**  
**Bluetooth Measured for Data Referencing  $P_{Max}$  Average RF Power for all DSI – Ant J**

| Frequency<br>[MHz] | Data Rate<br>[Mbps] | Channel<br>No. | Bluetooth<br>Mode | Peak Conducted<br>Power |        |
|--------------------|---------------------|----------------|-------------------|-------------------------|--------|
|                    |                     |                |                   | [dBm]                   | [mW]   |
| 2402               | 1 Mbps              | 0              | LE                | 19.52                   | 89.433 |
| 2440               | 1 Mbps              | 19             | LE                | 19.61                   | 91.411 |
| 2480               | 1 Mbps              | 39             | LE                | 19.08                   | 80.816 |

|                                                    |                                       |                                          |
|----------------------------------------------------|---------------------------------------|------------------------------------------|
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**Figure 10-7**  
**Bluetooth Antenna H Transmission Plot**

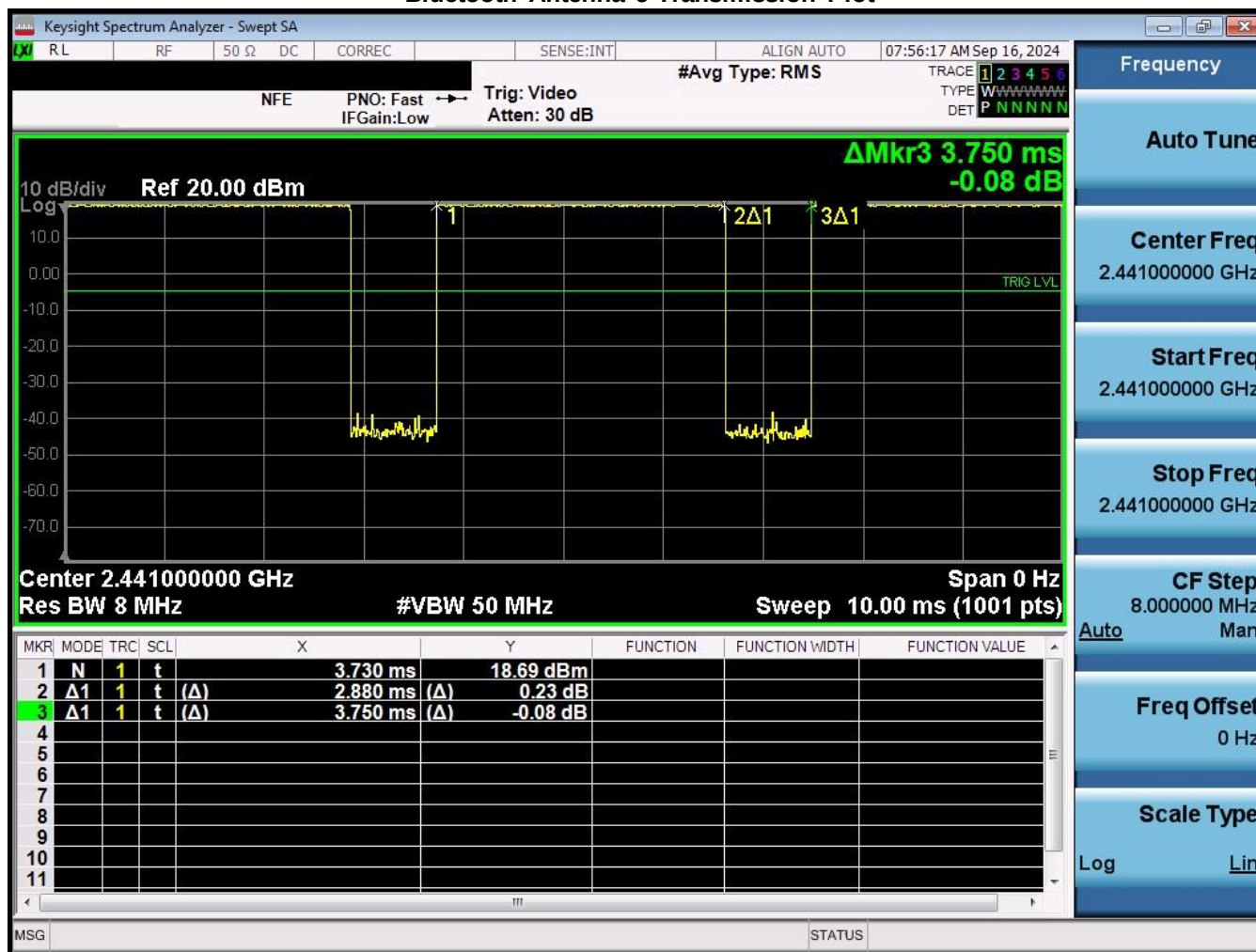


**Equation 10-1**  
**Bluetooth Antenna H Duty Cycle Calculation**

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.88\text{ms}}{3.75\text{ms}} * 100\% = 76.8\%$$

|                                             |                                |                                   |
|---------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: A3LSMS938B                          | RF EXPOSURE PART 1 TEST REPORT | Approved by:<br>Technical Manager |
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**Figure 10-8**  
**Bluetooth Antenna J Transmission Plot**



**Equation 10-2**  
**Bluetooth Antenna J Duty Cycle Calculation**

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.88ms}{3.75ms} * 100\% = 76.8\%$$

|                                             |                                |                                   |
|---------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: A3LSMS938B                          | RF EXPOSURE PART 1 TEST REPORT | Approved by:<br>Technical Manager |
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Figure 10-9  
Bluetooth MIMO Transmission Plot



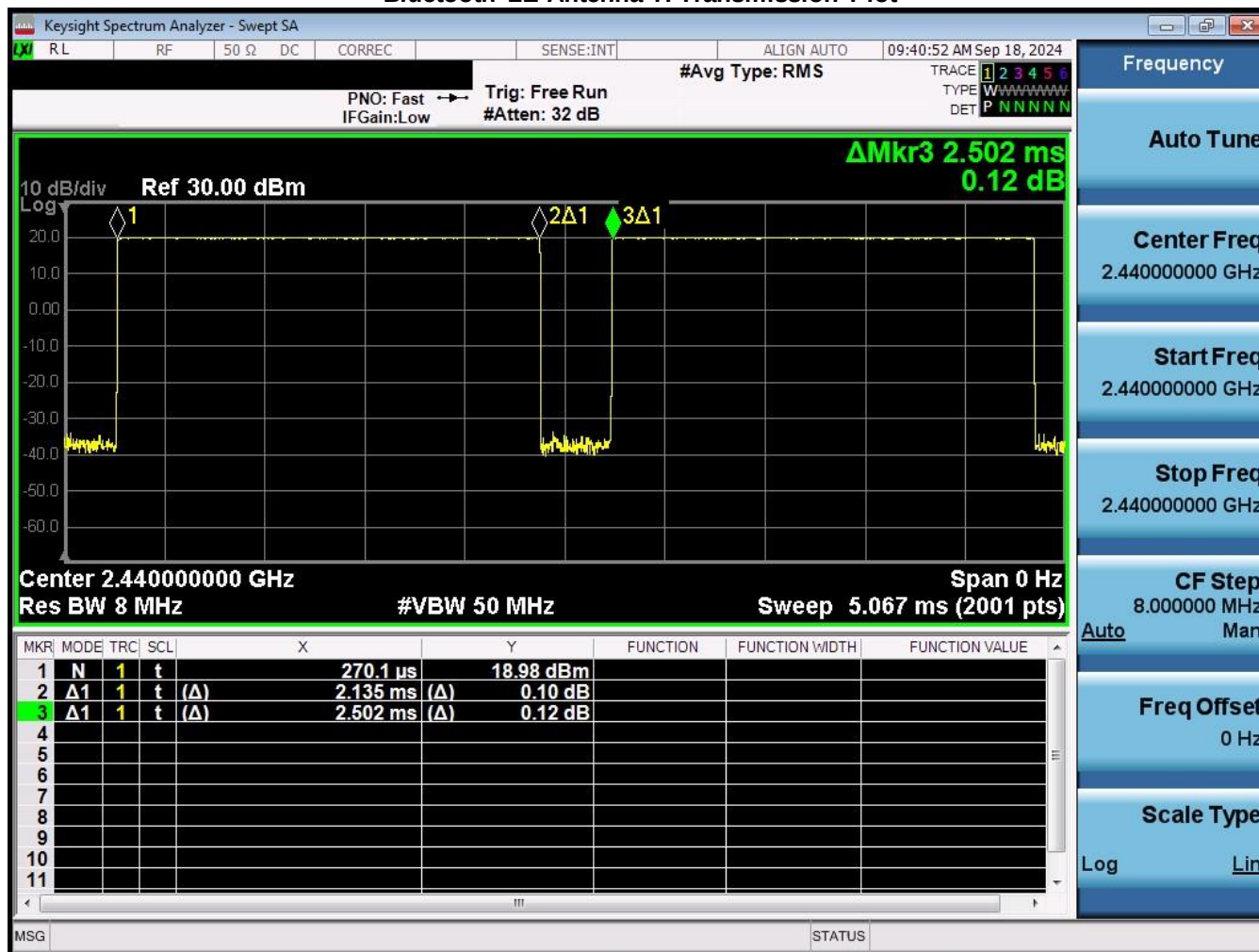
Equation 10-3  
Bluetooth MIMO Duty Cycle Calculation

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.890\text{ms}}{3.750\text{ms}} * 100\% = 77.07\%$$

|                                             |                                |                                   |
|---------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: A3LSMS938B                          | RF EXPOSURE PART 1 TEST REPORT | Approved by:<br>Technical Manager |
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Figure 10-10  
Bluetooth LE Antenna H Transmission Plot



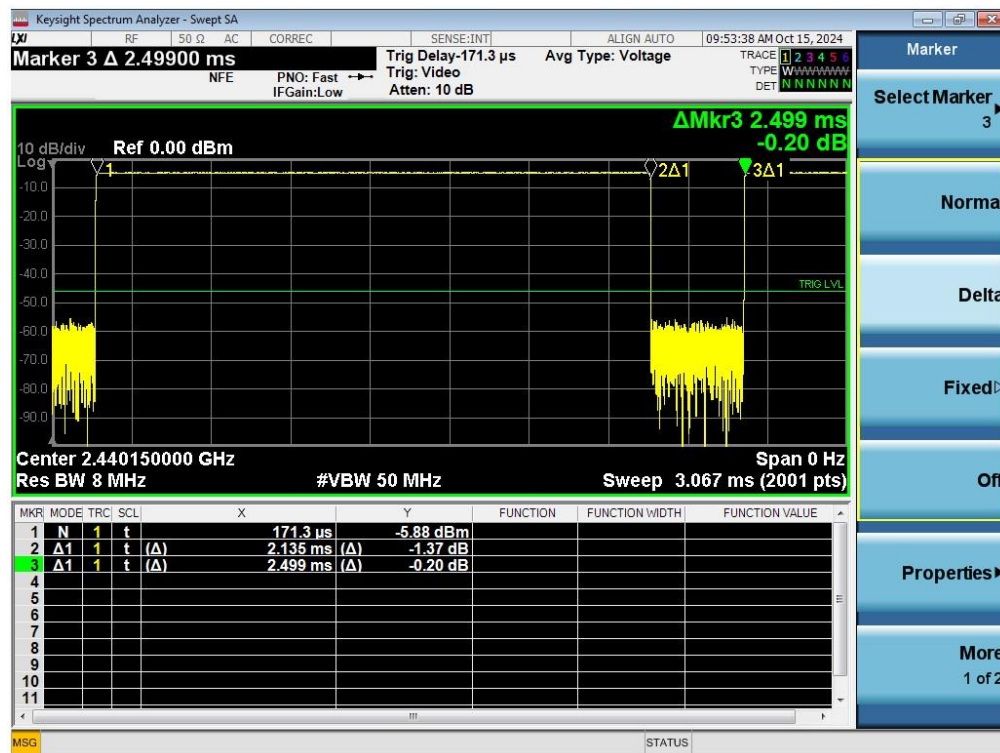
Equation 10-4  
Bluetooth LE Antenna H Duty Cycle Calculation

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.135\text{ms}}{2.502\text{ms}} * 100\% = 85.33\%$$

|                                             |                                |                                   |
|---------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: A3LSMS938B                          | RF EXPOSURE PART 1 TEST REPORT | Approved by:<br>Technical Manager |
| Document S/N:<br>1M2408260069-01.A3L (Rev1) | DUT Type:<br>Portable Handset  | Page 81 of 131                    |

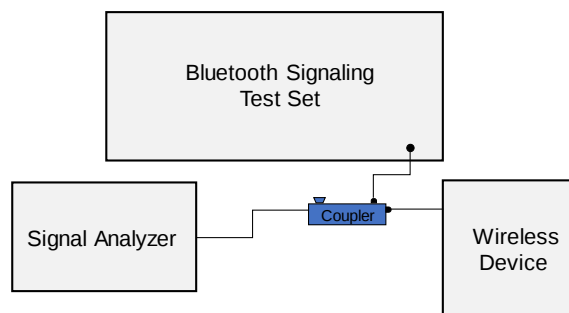
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**Figure 10-11**  
**Bluetooth LE Antenna J Transmission Plot**



**Equation 10-5**  
**Bluetooth LE Antenna J Duty Cycle Calculation**

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.135\text{ms}}{2.499\text{ms}} * 100\% = 85.43\%$$



**Figure 10-12**  
**Power Measurement Setup**

|                                             |                                |                                   |
|---------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: A3LSMS938B                          | RF EXPOSURE PART 1 TEST REPORT | Approved by:<br>Technical Manager |
| Document S/N:<br>1M2408260069-01.A3L (Rev1) | DUT Type:<br>Portable Handset  | Page 82 of 131                    |

# 11 SYSTEM VERIFICATION

## 11.1 Tissue Verification

**Table 11-1**  
**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 $\epsilon$ |
|------------------------------------|-------------|-------------------------------------|--------------------------|---------------------------------------|------------------------------------------|-------------------------------------|----------------------------------------|----------------|------------------|
| 10/07/2024                         | 30 Head     | 24.5                                | 4                        | 0.724                                 | 54.414                                   | 0.750                               | 55.000                                 | -3.47%         | -1.07%           |
|                                    |             |                                     | 6                        | 0.724                                 | 53.759                                   | 0.750                               | 55.000                                 | -3.47%         | -2.26%           |
|                                    |             |                                     | 12                       | 0.725                                 | 52.535                                   | 0.750                               | 55.000                                 | -3.33%         | -4.48%           |
|                                    |             |                                     | 13                       | 0.725                                 | 52.450                                   | 0.750                               | 55.000                                 | -3.33%         | -4.64%           |
|                                    |             |                                     | 14                       | 0.725                                 | 52.387                                   | 0.750                               | 55.000                                 | -3.33%         | -4.75%           |
|                                    |             |                                     | 60                       | 0.736                                 | 52.200                                   | 0.753                               | 54.325                                 | -2.26%         | -3.91%           |
|                                    |             |                                     | 65                       | 0.737                                 | 52.144                                   | 0.753                               | 54.213                                 | -2.12%         | -3.82%           |
|                                    |             |                                     | 150                      | 0.765                                 | 50.609                                   | 0.760                               | 52.300                                 | 0.66%          | -3.23%           |
| 09/17/2024                         | 750 Head    | 22.5                                | 680                      | 0.885                                 | 40.339                                   | 0.888                               | 42.305                                 | -0.34%         | -4.65%           |
|                                    |             |                                     | 695                      | 0.890                                 | 40.285                                   | 0.889                               | 42.227                                 | 0.11%          | -4.60%           |
|                                    |             |                                     | 700                      | 0.892                                 | 40.269                                   | 0.889                               | 42.201                                 | 0.34%          | -4.58%           |
|                                    |             |                                     | 710                      | 0.895                                 | 40.234                                   | 0.890                               | 42.149                                 | 0.56%          | -4.54%           |
|                                    |             |                                     | 725                      | 0.901                                 | 40.188                                   | 0.891                               | 42.071                                 | 1.12%          | -4.48%           |
|                                    |             |                                     | 750                      | 0.911                                 | 40.115                                   | 0.894                               | 41.942                                 | 1.90%          | -4.36%           |
|                                    |             |                                     | 770                      | 0.918                                 | 40.048                                   | 0.895                               | 41.838                                 | 2.57%          | -4.28%           |
|                                    |             |                                     | 785                      | 0.923                                 | 39.991                                   | 0.896                               | 41.760                                 | 3.01%          | -4.24%           |
|                                    |             |                                     | 800                      | 0.928                                 | 39.939                                   | 0.897                               | 41.682                                 | 3.46%          | -4.18%           |
|                                    |             |                                     | 680                      | 0.858                                 | 43.688                                   | 0.888                               | 42.305                                 | -3.38%         | 3.27%            |
| 10/09/2024                         | 750 Head    | 23.6                                | 695                      | 0.863                                 | 43.626                                   | 0.889                               | 42.227                                 | -2.92%         | 3.31%            |
|                                    |             |                                     | 710                      | 0.867                                 | 43.584                                   | 0.890                               | 42.149                                 | -2.58%         | 3.40%            |
|                                    |             |                                     | 725                      | 0.873                                 | 43.558                                   | 0.891                               | 42.071                                 | -2.02%         | 3.53%            |
|                                    |             |                                     | 750                      | 0.882                                 | 43.538                                   | 0.894                               | 41.942                                 | -1.34%         | 3.81%            |
|                                    |             |                                     | 770                      | 0.888                                 | 43.487                                   | 0.895                               | 41.838                                 | -0.78%         | 3.94%            |
|                                    |             |                                     | 785                      | 0.892                                 | 43.420                                   | 0.896                               | 41.760                                 | -0.45%         | 3.98%            |
|                                    |             |                                     | 800                      | 0.897                                 | 43.344                                   | 0.897                               | 41.682                                 | 0.00%          | 3.99%            |
|                                    |             |                                     | 815                      | 0.936                                 | 39.883                                   | 0.898                               | 41.594                                 | 4.23%          | -4.11%           |
| 09/15/2024                         | 835 Head    | 23.1                                | 820                      | 0.938                                 | 39.874                                   | 0.899                               | 41.578                                 | 4.34%          | -4.10%           |
|                                    |             |                                     | 835                      | 0.943                                 | 39.844                                   | 0.900                               | 41.500                                 | 4.78%          | -3.99%           |
|                                    |             |                                     | 850                      | 0.948                                 | 39.808                                   | 0.916                               | 41.500                                 | 3.49%          | -4.08%           |
| 09/17/2024                         | 835 Head    | 22.5                                | 815                      | 0.934                                 | 39.897                                   | 0.898                               | 41.594                                 | 4.01%          | -4.08%           |
|                                    |             |                                     | 820                      | 0.936                                 | 39.888                                   | 0.899                               | 41.578                                 | 4.12%          | -4.06%           |
|                                    |             |                                     | 835                      | 0.942                                 | 39.861                                   | 0.900                               | 41.500                                 | 4.67%          | -3.95%           |
|                                    |             |                                     | 850                      | 0.947                                 | 39.820                                   | 0.916                               | 41.500                                 | 3.38%          | -4.05%           |
| 10/02/2024                         | 835 Head    | 21.7                                | 815                      | 0.902                                 | 42.668                                   | 0.898                               | 41.594                                 | 0.45%          | 2.58%            |
|                                    |             |                                     | 820                      | 0.904                                 | 42.650                                   | 0.899                               | 41.578                                 | 0.56%          | 2.58%            |
|                                    |             |                                     | 835                      | 0.910                                 | 42.598                                   | 0.900                               | 41.500                                 | 1.11%          | 2.65%            |
|                                    |             |                                     | 850                      | 0.916                                 | 42.550                                   | 0.916                               | 41.500                                 | 0.00%          | 2.53%            |
|                                    |             |                                     | 815                      | 0.912                                 | 42.211                                   | 0.898                               | 41.594                                 | 1.56%          | 1.48%            |
| 10/23/2024                         | 835 Head    | 20.5                                | 820                      | 0.914                                 | 42.198                                   | 0.899                               | 41.578                                 | 1.67%          | 1.49%            |
|                                    |             |                                     | 835                      | 0.920                                 | 42.165                                   | 0.900                               | 41.500                                 | 2.22%          | 1.60%            |
|                                    |             |                                     | 850                      | 0.926                                 | 42.126                                   | 0.916                               | 41.500                                 | 1.09%          | 1.51%            |
|                                    |             |                                     | 820                      | 0.904                                 | 42.650                                   | 0.899                               | 41.578                                 | 0.56%          | 2.58%            |
| 09/15/2024                         | 1750 Head   | 22.1                                | 1705                     | 1.282                                 | 40.369                                   | 1.343                               | 40.145                                 | -4.54%         | 0.56%            |
|                                    |             |                                     | 1710                     | 1.284                                 | 40.360                                   | 1.345                               | 40.141                                 | -4.54%         | 0.55%            |
|                                    |             |                                     | 1710                     | 1.287                                 | 40.351                                   | 1.348                               | 40.136                                 | -4.53%         | 0.54%            |
|                                    |             |                                     | 1720                     | 1.292                                 | 40.336                                   | 1.354                               | 40.126                                 | -4.58%         | 0.52%            |
|                                    |             |                                     | 1745                     | 1.306                                 | 40.308                                   | 1.368                               | 40.087                                 | -4.53%         | 0.55%            |
|                                    |             |                                     | 1750                     | 1.309                                 | 40.303                                   | 1.371                               | 40.079                                 | -4.52%         | 0.56%            |
|                                    |             |                                     | 1770                     | 1.319                                 | 40.294                                   | 1.383                               | 40.047                                 | -4.63%         | 0.62%            |
|                                    |             |                                     | 1790                     | 1.329                                 | 40.262                                   | 1.394                               | 40.016                                 | -4.66%         | 0.61%            |
|                                    |             |                                     | 1700                     | 1.335                                 | 39.286                                   | 1.343                               | 40.145                                 | -0.60%         | -2.14%           |
|                                    |             |                                     | 1705                     | 1.338                                 | 39.282                                   | 1.345                               | 40.141                                 | -0.52%         | -2.14%           |
| 09/16/2024                         | 1750 Head   | 22.0                                | 1710                     | 1.341                                 | 39.280                                   | 1.348                               | 40.136                                 | -0.52%         | -2.13%           |
|                                    |             |                                     | 1720                     | 1.347                                 | 39.276                                   | 1.354                               | 40.126                                 | -0.52%         | -2.12%           |
|                                    |             |                                     | 1745                     | 1.362                                 | 39.257                                   | 1.368                               | 40.087                                 | -0.44%         | -2.07%           |
|                                    |             |                                     | 1750                     | 1.365                                 | 39.251                                   | 1.371                               | 40.079                                 | -0.44%         | -2.07%           |
|                                    |             |                                     | 1770                     | 1.377                                 | 39.212                                   | 1.383                               | 40.047                                 | -0.43%         | -2.09%           |
|                                    |             |                                     | 1790                     | 1.390                                 | 39.171                                   | 1.394                               | 40.016                                 | -0.29%         | -2.11%           |
|                                    |             |                                     | 1700                     | 1.333                                 | 40.502                                   | 1.343                               | 40.145                                 | -0.74%         | 0.89%            |
|                                    |             |                                     | 1705                     | 1.336                                 | 40.490                                   | 1.345                               | 40.141                                 | -0.67%         | 0.87%            |
| 09/16/2024                         | 1750 Head   | 21.8                                | 1710                     | 1.340                                 | 40.479                                   | 1.348                               | 40.136                                 | -0.59%         | 0.85%            |
|                                    |             |                                     | 1720                     | 1.346                                 | 40.458                                   | 1.354                               | 40.126                                 | -0.59%         | 0.83%            |
|                                    |             |                                     | 1745                     | 1.361                                 | 40.411                                   | 1.368                               | 40.087                                 | -0.51%         | 0.81%            |
|                                    |             |                                     | 1750                     | 1.364                                 | 40.401                                   | 1.371                               | 40.079                                 | -0.51%         | 0.80%            |
|                                    |             |                                     | 1770                     | 1.374                                 | 40.365                                   | 1.383                               | 40.047                                 | -0.65%         | 0.79%            |
|                                    |             |                                     | 1790                     | 1.385                                 | 40.335                                   | 1.394                               | 40.016                                 | -0.65%         | 0.80%            |
|                                    |             |                                     | 1700                     | 1.286                                 | 39.286                                   | 1.343                               | 40.145                                 | -4.24%         | -2.14%           |
|                                    |             |                                     | 1705                     | 1.289                                 | 39.280                                   | 1.345                               | 40.141                                 | -4.16%         | -2.14%           |
| 09/16/2024                         | 1750 Head   | 21.2                                | 1710                     | 1.292                                 | 39.275                                   | 1.348                               | 40.136                                 | -4.15%         | -2.15%           |
|                                    |             |                                     | 1720                     | 1.298                                 | 39.271                                   | 1.354                               | 40.126                                 | -4.14%         | -2.13%           |
|                                    |             |                                     | 1745                     | 1.313                                 | 39.256                                   | 1.368                               | 40.087                                 | -4.02%         | -2.07%           |
|                                    |             |                                     | 1750                     | 1.316                                 | 39.253                                   | 1.371                               | 40.079                                 | -4.01%         | -2.06%           |
|                                    |             |                                     | 1770                     | 1.327                                 | 39.219                                   | 1.383                               | 40.047                                 | -4.05%         | -2.07%           |
|                                    |             |                                     | 1790                     | 1.340                                 | 39.176                                   | 1.394                               | 40.016                                 | -3.87%         | -2.10%           |

|                                             |                                |                                   |
|---------------------------------------------|--------------------------------|-----------------------------------|
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| Document S/N:<br>1M2408260069-01.A3L (Rev1) | DUT Type:<br>Portable Handset  | Page 83 of 131                    |

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**Table 11-2**  
**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 $\epsilon$ |
|------------------------------------|-------------|-------------------------------------|--------------------------|---------------------------------------|------------------------------------------|-------------------------------------|----------------------------------------|----------------|------------------|
| 10/02/2024                         | 1750 Head   | 19.3                                | 1700                     | 1.323                                 | 39.517                                   | 1.343                               | 40.145                                 | -1.49%         | -1.56%           |
|                                    |             |                                     | 1705                     | 1.326                                 | 39.507                                   | 1.345                               | 40.141                                 | -1.41%         | -1.58%           |
|                                    |             |                                     | 1710                     | 1.329                                 | 39.495                                   | 1.348                               | 40.136                                 | -1.41%         | -1.60%           |
|                                    |             |                                     | 1720                     | 1.335                                 | 39.473                                   | 1.354                               | 40.126                                 | -1.40%         | -1.63%           |
|                                    |             |                                     | 1745                     | 1.351                                 | 39.417                                   | 1.368                               | 40.087                                 | -1.24%         | -1.67%           |
|                                    |             |                                     | 1750                     | 1.354                                 | 39.407                                   | 1.371                               | 40.079                                 | -1.24%         | -1.68%           |
|                                    |             |                                     | 1770                     | 1.366                                 | 39.366                                   | 1.383                               | 40.047                                 | -1.23%         | -1.70%           |
|                                    |             |                                     | 1790                     | 1.378                                 | 39.331                                   | 1.394                               | 40.016                                 | -1.15%         | -1.71%           |
| 10/02/2024                         | 1750 Head   | 21.3                                | 1700                     | 1.326                                 | 39.663                                   | 1.343                               | 40.145                                 | -1.27%         | -1.20%           |
|                                    |             |                                     | 1705                     | 1.329                                 | 39.656                                   | 1.345                               | 40.141                                 | -1.19%         | -1.21%           |
|                                    |             |                                     | 1710                     | 1.332                                 | 39.648                                   | 1.348                               | 40.136                                 | -1.19%         | -1.22%           |
|                                    |             |                                     | 1720                     | 1.338                                 | 39.628                                   | 1.354                               | 40.126                                 | -1.18%         | -1.24%           |
|                                    |             |                                     | 1745                     | 1.353                                 | 39.573                                   | 1.368                               | 40.087                                 | -1.10%         | -1.28%           |
|                                    |             |                                     | 1750                     | 1.356                                 | 39.562                                   | 1.371                               | 40.079                                 | -1.09%         | -1.29%           |
|                                    |             |                                     | 1770                     | 1.368                                 | 39.526                                   | 1.383                               | 40.047                                 | -1.08%         | -1.30%           |
|                                    |             |                                     | 1790                     | 1.380                                 | 39.497                                   | 1.394                               | 40.016                                 | -1.00%         | -1.30%           |
| 10/16/2024                         | 1750 Head   | 21.9                                | 1700                     | 1.316                                 | 40.679                                   | 1.343                               | 40.145                                 | -2.01%         | 1.33%            |
|                                    |             |                                     | 1705                     | 1.319                                 | 40.672                                   | 1.345                               | 40.141                                 | -1.93%         | 1.32%            |
|                                    |             |                                     | 1710                     | 1.322                                 | 40.666                                   | 1.348                               | 40.136                                 | -1.93%         | 1.32%            |
|                                    |             |                                     | 1720                     | 1.328                                 | 40.647                                   | 1.354                               | 40.126                                 | -1.92%         | 1.30%            |
|                                    |             |                                     | 1745                     | 1.344                                 | 40.586                                   | 1.368                               | 40.087                                 | -1.75%         | 1.24%            |
|                                    |             |                                     | 1750                     | 1.346                                 | 40.577                                   | 1.371                               | 40.079                                 | -1.82%         | 1.24%            |
|                                    |             |                                     | 1770                     | 1.359                                 | 40.541                                   | 1.383                               | 40.047                                 | -1.74%         | 1.23%            |
|                                    |             |                                     | 1790                     | 1.370                                 | 40.504                                   | 1.394                               | 40.016                                 | -1.72%         | 1.22%            |
| 09/15/2024                         | 1900 Head   | 22.1                                | 1850                     | 1.360                                 | 40.152                                   | 1.400                               | 40.000                                 | -2.86%         | 0.38%            |
|                                    |             |                                     | 1860                     | 1.366                                 | 40.145                                   | 1.400                               | 40.000                                 | -2.43%         | 0.36%            |
|                                    |             |                                     | 1880                     | 1.377                                 | 40.136                                   | 1.400                               | 40.000                                 | -1.64%         | 0.34%            |
|                                    |             |                                     | 1900                     | 1.388                                 | 40.108                                   | 1.400                               | 40.000                                 | -0.86%         | 0.27%            |
|                                    |             |                                     | 1905                     | 1.390                                 | 40.099                                   | 1.400                               | 40.000                                 | -0.71%         | 0.25%            |
|                                    |             |                                     | 1910                     | 1.393                                 | 40.090                                   | 1.400                               | 40.000                                 | -0.50%         | 0.23%            |
|                                    |             |                                     | 1920                     | 1.398                                 | 40.070                                   | 1.400                               | 40.000                                 | -0.14%         | 0.18%            |
|                                    |             |                                     | 1850                     | 1.376                                 | 39.081                                   | 1.400                               | 40.000                                 | -1.71%         | -2.30%           |
| 09/16/2024                         | 1900 Head   | 21.2                                | 1860                     | 1.381                                 | 39.054                                   | 1.400                               | 40.000                                 | -1.36%         | -2.34%           |
|                                    |             |                                     | 1880                     | 1.393                                 | 39.029                                   | 1.400                               | 40.000                                 | -0.50%         | -2.43%           |
|                                    |             |                                     | 1900                     | 1.407                                 | 38.998                                   | 1.400                               | 40.000                                 | 0.50%          | -2.51%           |
|                                    |             |                                     | 1905                     | 1.410                                 | 38.990                                   | 1.400                               | 40.000                                 | 0.71%          | -2.52%           |
|                                    |             |                                     | 1910                     | 1.413                                 | 38.983                                   | 1.400                               | 40.000                                 | 0.93%          | -2.54%           |
|                                    |             |                                     | 1920                     | 1.420                                 | 38.970                                   | 1.400                               | 40.000                                 | 1.43%          | -2.58%           |
|                                    |             |                                     | 1850                     | 1.425                                 | 39.077                                   | 1.400                               | 40.000                                 | 1.79%          | -2.31%           |
|                                    |             |                                     | 1860                     | 1.431                                 | 39.059                                   | 1.400                               | 40.000                                 | 2.21%          | -2.35%           |
| 09/16/2024                         | 1900 Head   | 22.0                                | 1880                     | 1.443                                 | 39.024                                   | 1.400                               | 40.000                                 | 3.07%          | -2.44%           |
|                                    |             |                                     | 1900                     | 1.456                                 | 38.994                                   | 1.400                               | 40.000                                 | 4.00%          | -2.52%           |
|                                    |             |                                     | 1905                     | 1.459                                 | 38.987                                   | 1.400                               | 40.000                                 | 4.21%          | -2.53%           |
|                                    |             |                                     | 1910                     | 1.463                                 | 38.981                                   | 1.400                               | 40.000                                 | 4.50%          | -2.55%           |
|                                    |             |                                     | 1920                     | 1.470                                 | 38.966                                   | 1.400                               | 40.000                                 | 5.00%          | -2.59%           |
|                                    |             |                                     | 1850                     | 1.422                                 | 40.236                                   | 1.400                               | 40.000                                 | 1.57%          | 0.59%            |
|                                    |             |                                     | 1860                     | 1.427                                 | 40.214                                   | 1.400                               | 40.000                                 | 1.93%          | 0.53%            |
|                                    |             |                                     | 1880                     | 1.438                                 | 40.183                                   | 1.400                               | 40.000                                 | 2.71%          | 0.46%            |
| 09/16/2024                         | 1900 Head   | 21.8                                | 1900                     | 1.448                                 | 40.166                                   | 1.400                               | 40.000                                 | 3.43%          | 0.41%            |
|                                    |             |                                     | 1905                     | 1.451                                 | 40.163                                   | 1.400                               | 40.000                                 | 3.64%          | 0.41%            |
|                                    |             |                                     | 1910                     | 1.454                                 | 40.160                                   | 1.400                               | 40.000                                 | 3.86%          | 0.40%            |
|                                    |             |                                     | 1920                     | 1.460                                 | 40.153                                   | 1.400                               | 40.000                                 | 4.29%          | 0.38%            |
|                                    |             |                                     | 1850                     | 1.414                                 | 39.230                                   | 1.400                               | 40.000                                 | 1.00%          | -1.93%           |
|                                    |             |                                     | 1860                     | 1.420                                 | 39.214                                   | 1.400                               | 40.000                                 | 1.43%          | -1.97%           |
|                                    |             |                                     | 1880                     | 1.432                                 | 39.186                                   | 1.400                               | 40.000                                 | 2.29%          | -2.04%           |
|                                    |             |                                     | 1900                     | 1.445                                 | 39.165                                   | 1.400                               | 40.000                                 | 3.21%          | -2.09%           |
| 10/02/2024                         | 1900 Head   | 19.3                                | 1905                     | 1.448                                 | 39.160                                   | 1.400                               | 40.000                                 | 3.43%          | -2.10%           |
|                                    |             |                                     | 1910                     | 1.451                                 | 39.156                                   | 1.400                               | 40.000                                 | 3.64%          | -2.11%           |
|                                    |             |                                     | 1920                     | 1.458                                 | 39.145                                   | 1.400                               | 40.000                                 | 4.14%          | -2.14%           |
|                                    |             |                                     | 1850                     | 1.380                                 | 41.848                                   | 1.400                               | 40.000                                 | -1.43%         | 4.62%            |
|                                    |             |                                     | 1860                     | 1.386                                 | 41.830                                   | 1.400                               | 40.000                                 | -1.00%         | 4.58%            |
|                                    |             |                                     | 1880                     | 1.400                                 | 41.798                                   | 1.400                               | 40.000                                 | 0.00%          | 4.50%            |
|                                    |             |                                     | 1900                     | 1.413                                 | 41.771                                   | 1.400                               | 40.000                                 | 0.93%          | 4.43%            |
|                                    |             |                                     | 1905                     | 1.416                                 | 41.764                                   | 1.400                               | 40.000                                 | 1.14%          | 4.41%            |
| 10/07/2024                         | 1900 Head   | 19.8                                | 1910                     | 1.419                                 | 41.758                                   | 1.400                               | 40.000                                 | 1.36%          | 4.40%            |
|                                    |             |                                     | 1920                     | 1.425                                 | 41.742                                   | 1.400                               | 40.000                                 | 1.79%          | 4.35%            |
|                                    |             |                                     | 1850                     | 1.405                                 | 40.444                                   | 1.400                               | 40.000                                 | 0.36%          | 1.11%            |
|                                    |             |                                     | 1860                     | 1.412                                 | 40.432                                   | 1.400                               | 40.000                                 | 0.86%          | 1.08%            |
|                                    |             |                                     | 1880                     | 1.423                                 | 40.413                                   | 1.400                               | 40.000                                 | 1.64%          | 1.03%            |
|                                    |             |                                     | 1900                     | 1.435                                 | 40.402                                   | 1.400                               | 40.000                                 | 2.50%          | 1.01%            |
|                                    |             |                                     | 1905                     | 1.438                                 | 40.399                                   | 1.400                               | 40.000                                 | 2.71%          | 1.00%            |
|                                    |             |                                     | 1910                     | 1.441                                 | 40.396                                   | 1.400                               | 40.000                                 | 2.93%          | 0.99%            |
| 10/16/2024                         | 1900 Head   | 21.9                                | 1920                     | 1.447                                 | 40.390                                   | 1.400                               | 40.000                                 | 3.36%          | 0.98%            |
|                                    |             |                                     | 2300                     | 1.731                                 | 38.407                                   | 1.670                               | 39.500                                 | 3.65%          | -2.77%           |
|                                    |             |                                     | 2310                     | 1.738                                 | 38.393                                   | 1.679                               | 39.480                                 | 3.51%          | -2.75%           |
|                                    |             |                                     | 2320                     | 1.746                                 | 38.378                                   | 1.687                               | 39.460                                 | 3.50%          | -2.74%           |
|                                    |             |                                     | 2400                     | 1.808                                 | 38.271                                   | 1.756                               | 39.289                                 | 2.96%          | -2.59%           |
|                                    |             |                                     | 2450                     | 1.849                                 | 38.190                                   | 1.800                               | 39.200                                 | 2.72%          | -2.58%           |
|                                    |             |                                     | 2480                     | 1.873                                 | 38.142                                   | 1.833                               | 39.162                                 | 2.18%          | -2.60%           |
|                                    |             |                                     | 2500                     | 1.890                                 | 38.099                                   | 1.855                               | 39.136                                 | 1.89%          | -2.65%           |
| 10/02/2024                         | 2450 Head   | 20.9                                | 2510                     | 1.899                                 | 38.078                                   | 1.866                               | 39.123                                 | 1.77%          | -2.67%           |
|                                    |             |                                     | 2535                     | 1.921                                 | 38.029                                   | 1.893                               | 39.092                                 | 1.48%          | -2.72%           |
|                                    |             |                                     | 2550                     | 1.933                                 | 38.003                                   | 1.909                               | 39.073                                 | 1.26%          | -2.74%           |
|                                    |             |                                     | 2560                     | 1.942                                 | 37.986                                   | 1.920                               | 39.060                                 | 1.15%          | -2.75%           |
|                                    |             |                                     | 2600                     | 1.974                                 | 37.908                                   | 1.964                               | 39.009                                 | 0.51%          | -2.82%           |
|                                    |             |                                     | 2650                     | 2.016                                 | 37.819                                   | 2.018                               | 38.945                                 | -0.10%         | -2.89%           |
|                                    |             |                                     | 2680                     | 2.039                                 | 37.762                                   | 2.051                               | 38.907                                 | -0.59%         | -2.94%           |
|                                    |             |                                     | 2700                     | 2.055                                 | 37.720                                   | 2.073                               | 38.882                                 | -0.87%         | -2.99%           |

|                                                    |                                       |                                          |
|----------------------------------------------------|---------------------------------------|------------------------------------------|
| <b>FCC ID: A3LSMS938B</b>                          | <b>RF EXPOSURE PART 1 TEST REPORT</b> | <b>Approved by:</b><br>Technical Manager |
| <b>Document S/N:</b><br>1M2408260069-01.A3L (Rev1) | <b>DUT Type:</b><br>Portable Handset  | Page 84 of 131                           |

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**Table 11-3**  
**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 $\epsilon$ |
|------------------------------------|-------------|-------------------------------------|--------------------------|---------------------------------------|------------------------------------------|-------------------------------------|----------------------------------------|----------------|------------------|
| 10/07/2024                         | 2450 Head   | 21.0                                | 2300                     | 1.692                                 | 38.258                                   | 1.670                               | 39.500                                 | 1.32%          | -3.14%           |
|                                    |             |                                     | 2310                     | 1.699                                 | 38.239                                   | 1.679                               | 39.480                                 | 1.19%          | -3.14%           |
|                                    |             |                                     | 2320                     | 1.707                                 | 38.220                                   | 1.687                               | 39.460                                 | 1.19%          | -3.14%           |
|                                    |             |                                     | 2400                     | 1.762                                 | 38.097                                   | 1.756                               | 39.289                                 | 0.34%          | -3.03%           |
|                                    |             |                                     | 2450                     | 1.799                                 | 38.018                                   | 1.800                               | 39.200                                 | -0.06%         | -3.02%           |
|                                    |             |                                     | 2480                     | 1.821                                 | 37.974                                   | 1.833                               | 39.162                                 | -0.65%         | -3.03%           |
|                                    |             |                                     | 2500                     | 1.836                                 | 37.938                                   | 1.855                               | 39.136                                 | -1.02%         | -3.06%           |
|                                    |             |                                     | 2510                     | 1.844                                 | 37.923                                   | 1.866                               | 39.123                                 | -1.18%         | -3.07%           |
|                                    |             |                                     | 2535                     | 1.864                                 | 37.890                                   | 1.893                               | 39.092                                 | -1.53%         | -3.07%           |
|                                    |             |                                     | 2550                     | 1.876                                 | 37.873                                   | 1.909                               | 39.073                                 | -1.73%         | -3.07%           |
|                                    |             |                                     | 2560                     | 1.884                                 | 37.861                                   | 1.920                               | 39.060                                 | -1.88%         | -3.07%           |
|                                    |             |                                     | 2600                     | 1.915                                 | 37.805                                   | 1.964                               | 39.009                                 | -2.49%         | -3.09%           |
|                                    |             |                                     | 2650                     | 1.956                                 | 37.735                                   | 2.018                               | 38.945                                 | -3.07%         | -3.11%           |
|                                    |             |                                     | 2680                     | 1.980                                 | 37.691                                   | 2.051                               | 38.907                                 | -3.46%         | -3.13%           |
|                                    |             |                                     | 2700                     | 1.996                                 | 37.655                                   | 2.073                               | 38.882                                 | -3.71%         | -3.16%           |
|                                    |             |                                     | 2300                     | 1.676                                 | 38.553                                   | 1.670                               | 39.500                                 | 0.36%          | -2.40%           |
| 10/09/2024                         | 2450 Head   | 21.0                                | 2310                     | 1.684                                 | 38.535                                   | 1.679                               | 39.480                                 | 0.30%          | -2.39%           |
|                                    |             |                                     | 2320                     | 1.692                                 | 38.517                                   | 1.687                               | 39.460                                 | 0.30%          | -2.39%           |
|                                    |             |                                     | 2400                     | 1.753                                 | 38.388                                   | 1.756                               | 39.289                                 | -0.17%         | -2.29%           |
|                                    |             |                                     | 2450                     | 1.792                                 | 38.302                                   | 1.800                               | 39.200                                 | -0.44%         | -2.29%           |
|                                    |             |                                     | 2480                     | 1.815                                 | 38.256                                   | 1.833                               | 39.162                                 | -0.98%         | -2.31%           |
|                                    |             |                                     | 2500                     | 1.829                                 | 38.219                                   | 1.855                               | 39.136                                 | -1.40%         | -2.34%           |
|                                    |             |                                     | 2510                     | 1.837                                 | 38.200                                   | 1.866                               | 39.123                                 | -1.55%         | -2.36%           |
|                                    |             |                                     | 2535                     | 1.857                                 | 38.164                                   | 1.893                               | 39.092                                 | -1.90%         | -2.37%           |
|                                    |             |                                     | 2550                     | 1.869                                 | 38.147                                   | 1.909                               | 39.073                                 | -2.10%         | -2.37%           |
|                                    |             |                                     | 2560                     | 1.877                                 | 38.136                                   | 1.920                               | 39.060                                 | -2.24%         | -2.37%           |
|                                    |             |                                     | 2600                     | 1.908                                 | 38.078                                   | 1.964                               | 39.009                                 | -2.85%         | -2.39%           |
|                                    |             |                                     | 2650                     | 1.950                                 | 38.008                                   | 2.018                               | 38.945                                 | -3.37%         | -2.41%           |
|                                    |             |                                     | 2680                     | 1.974                                 | 37.960                                   | 2.051                               | 38.907                                 | -3.75%         | -2.43%           |
|                                    |             |                                     | 2700                     | 1.990                                 | 37.923                                   | 2.073                               | 38.882                                 | -4.00%         | -2.47%           |
|                                    |             |                                     | 2300                     | 1.694                                 | 39.170                                   | 1.670                               | 39.500                                 | 1.44%          | -0.84%           |
|                                    |             |                                     | 2310                     | 1.701                                 | 39.157                                   | 1.679                               | 39.480                                 | 1.31%          | -0.82%           |
| 10/14/2024                         | 2450 Head   | 20.8                                | 2320                     | 1.709                                 | 39.143                                   | 1.687                               | 39.460                                 | 1.30%          | -0.80%           |
|                                    |             |                                     | 2400                     | 1.770                                 | 39.042                                   | 1.756                               | 39.289                                 | 0.80%          | -0.63%           |
|                                    |             |                                     | 2450                     | 1.811                                 | 38.974                                   | 1.800                               | 39.200                                 | 0.61%          | -0.58%           |
|                                    |             |                                     | 2480                     | 1.834                                 | 38.930                                   | 1.833                               | 39.162                                 | 0.05%          | -0.59%           |
|                                    |             |                                     | 2500                     | 1.849                                 | 38.893                                   | 1.855                               | 39.136                                 | -0.32%         | -0.62%           |
|                                    |             |                                     | 2510                     | 1.858                                 | 38.876                                   | 1.866                               | 39.123                                 | -0.43%         | -0.63%           |
|                                    |             |                                     | 2535                     | 1.880                                 | 38.839                                   | 1.893                               | 39.092                                 | -0.69%         | -0.65%           |
|                                    |             |                                     | 2550                     | 1.893                                 | 38.820                                   | 1.909                               | 39.073                                 | -0.84%         | -0.65%           |
|                                    |             |                                     | 2560                     | 1.901                                 | 38.809                                   | 1.920                               | 39.060                                 | -0.99%         | -0.64%           |
|                                    |             |                                     | 2600                     | 1.933                                 | 38.743                                   | 1.964                               | 39.009                                 | -1.58%         | -0.68%           |
|                                    |             |                                     | 2650                     | 1.976                                 | 38.658                                   | 2.018                               | 38.945                                 | -2.08%         | -0.74%           |
|                                    |             |                                     | 2680                     | 2.000                                 | 38.612                                   | 2.051                               | 38.907                                 | -2.49%         | -0.76%           |
|                                    |             |                                     | 2700                     | 2.016                                 | 38.578                                   | 2.073                               | 38.882                                 | -2.75%         | -0.78%           |
|                                    |             |                                     | 2300                     | 1.691                                 | 40.762                                   | 1.670                               | 39.500                                 | 1.26%          | 3.19%            |
|                                    |             |                                     | 2310                     | 1.698                                 | 40.741                                   | 1.679                               | 39.480                                 | 1.13%          | 3.19%            |
|                                    |             |                                     | 2320                     | 1.704                                 | 40.722                                   | 1.687                               | 39.460                                 | 1.01%          | 3.20%            |
| 10/21/2024                         | 2450 Head   | 21.0                                | 2400                     | 1.768                                 | 40.618                                   | 1.756                               | 39.289                                 | 0.68%          | 3.38%            |
|                                    |             |                                     | 2450                     | 1.809                                 | 40.548                                   | 1.800                               | 39.200                                 | 0.50%          | 3.44%            |
|                                    |             |                                     | 2480                     | 1.836                                 | 40.499                                   | 1.833                               | 39.162                                 | 0.16%          | 3.41%            |
|                                    |             |                                     | 2500                     | 1.852                                 | 40.450                                   | 1.855                               | 39.136                                 | -0.16%         | 3.36%            |
|                                    |             |                                     | 2510                     | 1.860                                 | 40.431                                   | 1.866                               | 39.123                                 | -0.32%         | 3.34%            |
|                                    |             |                                     | 2535                     | 1.883                                 | 40.397                                   | 1.893                               | 39.092                                 | -0.53%         | 3.34%            |
|                                    |             |                                     | 2550                     | 1.899                                 | 40.374                                   | 1.909                               | 39.073                                 | -0.52%         | 3.33%            |
|                                    |             |                                     | 2560                     | 1.909                                 | 40.360                                   | 1.920                               | 39.060                                 | -0.57%         | 3.33%            |
|                                    |             |                                     | 2600                     | 1.943                                 | 40.293                                   | 1.964                               | 39.009                                 | -1.07%         | 3.29%            |
|                                    |             |                                     | 2650                     | 1.989                                 | 40.221                                   | 2.018                               | 38.945                                 | -1.44%         | 3.28%            |
|                                    |             |                                     | 2680                     | 2.016                                 | 40.157                                   | 2.051                               | 38.907                                 | -1.71%         | 3.21%            |
|                                    |             |                                     | 2700                     | 2.030                                 | 40.133                                   | 2.073                               | 38.882                                 | -2.07%         | 3.22%            |
|                                    |             |                                     | 2300                     | 1.722                                 | 38.592                                   | 1.670                               | 39.500                                 | 3.11%          | -2.30%           |
|                                    |             |                                     | 2310                     | 1.729                                 | 38.578                                   | 1.679                               | 39.480                                 | 2.98%          | -2.28%           |
|                                    |             |                                     | 2320                     | 1.738                                 | 38.563                                   | 1.687                               | 39.460                                 | 3.02%          | -2.27%           |
|                                    |             |                                     | 2400                     | 1.801                                 | 38.442                                   | 1.756                               | 39.289                                 | 2.56%          | -2.16%           |
| 10/23/2024                         | 2450 Head   | 20.2                                | 2450                     | 1.843                                 | 38.349                                   | 1.800                               | 39.200                                 | 2.39%          | -2.17%           |
|                                    |             |                                     | 2480                     | 1.867                                 | 38.295                                   | 1.833                               | 39.162                                 | 1.85%          | -2.21%           |
|                                    |             |                                     | 2500                     | 1.883                                 | 38.258                                   | 1.855                               | 39.136                                 | 1.51%          | -2.24%           |
|                                    |             |                                     | 2510                     | 1.891                                 | 38.238                                   | 1.866                               | 39.123                                 | 1.34%          | -2.26%           |
|                                    |             |                                     | 2535                     | 1.912                                 | 38.184                                   | 1.893                               | 39.092                                 | 1.00%          | -2.32%           |
|                                    |             |                                     | 2550                     | 1.924                                 | 38.154                                   | 1.909                               | 39.073                                 | 0.79%          | -2.35%           |
|                                    |             |                                     | 2560                     | 1.932                                 | 38.138                                   | 1.920                               | 39.060                                 | 0.63%          | -2.36%           |
|                                    |             |                                     | 2600                     | 1.964                                 | 38.063                                   | 1.964                               | 39.009                                 | 0.00%          | -2.43%           |
|                                    |             |                                     | 2650                     | 2.003                                 | 37.968                                   | 2.018                               | 38.945                                 | -0.74%         | -2.51%           |
|                                    |             |                                     | 2680                     | 2.027                                 | 37.922                                   | 2.051                               | 38.907                                 | -1.17%         | -2.53%           |
|                                    |             |                                     | 2700                     | 2.043                                 | 37.882                                   | 2.073                               | 38.882                                 | -1.45%         | -2.57%           |

|                                             |                                |                                   |
|---------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: A3LSMS938B                          | RF EXPOSURE PART 1 TEST REPORT | Approved by:<br>Technical Manager |
| Document S/N:<br>1M2408260069-01.A3L (Rev1) | DUT Type:<br>Portable Handset  | Page 85 of 131                    |

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**Table 11-4**  
**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 $\epsilon$ |
|------------------------------------|----------------|-------------------------------------|--------------------------|---------------------------------------|------------------------------------------|-------------------------------------|----------------------------------------|----------------|------------------|
| 11/04/2024                         | 2450 Head      | 21.0                                | 2350                     | 1.722                                 | 38.312                                   | 1.670                               | 39.500                                 | 3.11%          | -3.01%           |
|                                    |                |                                     | 2310                     | 1.730                                 | 38.282                                   | 1.679                               | 39.480                                 | 3.04%          | -3.01%           |
|                                    |                |                                     | 2320                     | 1.737                                 | 38.275                                   | 1.687                               | 39.460                                 | 2.96%          | -3.00%           |
|                                    |                |                                     | 2400                     | 1.796                                 | 38.142                                   | 1.756                               | 39.289                                 | 2.28%          | -2.92%           |
|                                    |                |                                     | 2450                     | 1.836                                 | 38.051                                   | 1.800                               | 39.200                                 | 1.94%          | -2.93%           |
|                                    |                |                                     | 2480                     | 1.857                                 | 37.995                                   | 1.833                               | 39.162                                 | 1.31%          | -2.98%           |
|                                    |                |                                     | 2500                     | 1.872                                 | 37.953                                   | 1.855                               | 39.136                                 | 0.92%          | -3.02%           |
|                                    |                |                                     | 2510                     | 1.880                                 | 37.936                                   | 1.866                               | 39.123                                 | 0.75%          | -3.03%           |
|                                    |                |                                     | 2535                     | 1.900                                 | 37.895                                   | 1.893                               | 39.092                                 | 0.37%          | -3.06%           |
|                                    |                |                                     | 2550                     | 1.912                                 | 37.875                                   | 1.909                               | 39.073                                 | 0.16%          | -3.07%           |
|                                    |                |                                     | 2560                     | 1.920                                 | 37.860                                   | 1.920                               | 39.060                                 | 0.00%          | -3.07%           |
|                                    |                |                                     | 2600                     | 1.951                                 | 37.790                                   | 1.964                               | 39.009                                 | -0.66%         | -3.12%           |
|                                    |                |                                     | 2650                     | 1.992                                 | 37.713                                   | 2.018                               | 38.945                                 | -1.29%         | -3.16%           |
|                                    |                |                                     | 2680                     | 2.015                                 | 37.670                                   | 2.051                               | 38.907                                 | -1.76%         | -3.18%           |
|                                    |                |                                     | 2700                     | 2.031                                 | 37.635                                   | 2.073                               | 38.882                                 | -2.03%         | -3.21%           |
|                                    |                |                                     | 3300                     | 2.594                                 | 37.760                                   | 2.708                               | 38.157                                 | -4.21%         | -1.04%           |
|                                    |                |                                     | 3350                     | 2.640                                 | 37.686                                   | 2.759                               | 38.100                                 | -4.31%         | -1.09%           |
|                                    |                |                                     | 3450                     | 2.730                                 | 37.514                                   | 2.861                               | 37.986                                 | -4.58%         | -1.24%           |
|                                    |                |                                     | 3500                     | 2.777                                 | 37.415                                   | 2.913                               | 37.929                                 | -4.67%         | -1.36%           |
|                                    |                |                                     | 3550                     | 2.825                                 | 37.342                                   | 2.964                               | 37.871                                 | -4.69%         | -1.40%           |
| 10/07/2024                         | 3600 Head      | 19.1                                | 3560                     | 2.834                                 | 37.315                                   | 2.974                               | 37.860                                 | -4.71%         | -1.44%           |
|                                    |                |                                     | 3600                     | 2.873                                 | 37.243                                   | 3.015                               | 37.814                                 | -4.71%         | -1.51%           |
|                                    |                |                                     | 3650                     | 2.925                                 | 37.158                                   | 3.066                               | 37.757                                 | -4.60%         | -1.59%           |
|                                    |                |                                     | 3690                     | 2.964                                 | 37.091                                   | 3.107                               | 37.711                                 | -4.60%         | -1.64%           |
|                                    |                |                                     | 3700                     | 2.975                                 | 37.067                                   | 3.117                               | 37.700                                 | -4.56%         | -1.68%           |
|                                    |                |                                     | 3750                     | 3.026                                 | 36.982                                   | 3.169                               | 37.643                                 | -4.51%         | -1.76%           |
|                                    |                |                                     | 3900                     | 3.178                                 | 36.723                                   | 3.323                               | 37.471                                 | -4.36%         | -2.00%           |
|                                    |                |                                     | 3930                     | 3.209                                 | 36.658                                   | 3.353                               | 37.437                                 | -4.25%         | -2.08%           |
|                                    |                |                                     | 4100                     | 3.385                                 | 36.372                                   | 3.528                               | 37.243                                 | -3.97%         | -2.34%           |
|                                    |                |                                     | 4150                     | 3.443                                 | 36.285                                   | 3.579                               | 37.186                                 | -3.80%         | -2.42%           |
|                                    |                |                                     | 3300                     | 2.587                                 | 38.028                                   | 2.708                               | 38.157                                 | -4.47%         | 2.28%            |
|                                    |                |                                     | 3350                     | 2.632                                 | 38.954                                   | 2.759                               | 38.100                                 | -4.60%         | 2.24%            |
|                                    |                |                                     | 3450                     | 2.725                                 | 38.785                                   | 2.861                               | 37.986                                 | -4.75%         | 2.10%            |
|                                    |                |                                     | 3500                     | 2.770                                 | 38.681                                   | 2.913                               | 37.929                                 | -4.91%         | 1.98%            |
|                                    |                |                                     | 3550                     | 2.818                                 | 38.589                                   | 2.964                               | 37.871                                 | -4.93%         | 1.90%            |
|                                    |                |                                     | 3560                     | 2.827                                 | 38.565                                   | 2.974                               | 37.860                                 | -4.94%         | 1.86%            |
|                                    |                |                                     | 3600                     | 2.867                                 | 38.508                                   | 3.015                               | 37.814                                 | -4.91%         | 1.84%            |
|                                    |                |                                     | 3650                     | 2.917                                 | 38.426                                   | 3.066                               | 37.757                                 | -4.86%         | 1.77%            |
|                                    |                |                                     | 3690                     | 2.953                                 | 38.359                                   | 3.107                               | 37.711                                 | -4.96%         | 1.72%            |
| 10/14/2024                         | 3600 Head      | 20.8                                | 3700                     | 2.964                                 | 38.342                                   | 3.117                               | 37.700                                 | -4.91%         | 1.70%            |
|                                    |                |                                     | 3750                     | 3.013                                 | 38.269                                   | 3.169                               | 37.643                                 | -4.92%         | 1.66%            |
|                                    |                |                                     | 3900                     | 3.165                                 | 38.018                                   | 3.323                               | 37.471                                 | -4.75%         | 1.46%            |
|                                    |                |                                     | 3930                     | 3.195                                 | 37.969                                   | 3.353                               | 37.437                                 | -4.71%         | 1.42%            |
|                                    |                |                                     | 4100                     | 3.376                                 | 37.695                                   | 3.528                               | 37.243                                 | -4.31%         | 1.21%            |
|                                    |                |                                     | 4150                     | 3.430                                 | 37.625                                   | 3.579                               | 37.186                                 | -4.16%         | 1.18%            |
|                                    |                |                                     | 5150                     | 4.562                                 | 34.739                                   | 4.608                               | 35.050                                 | -1.00%         | -3.64%           |
|                                    |                |                                     | 5160                     | 4.575                                 | 34.725                                   | 4.618                               | 35.040                                 | -0.93%         | -3.65%           |
|                                    |                |                                     | 5170                     | 4.588                                 | 34.703                                   | 4.629                               | 35.030                                 | -0.89%         | -3.68%           |
|                                    |                |                                     | 5180                     | 4.600                                 | 34.679                                   | 4.635                               | 35.009                                 | -0.76%         | -3.69%           |
|                                    |                |                                     | 5190                     | 4.613                                 | 34.662                                   | 4.645                               | 35.998                                 | -0.69%         | -3.71%           |
|                                    |                |                                     | 5200                     | 4.625                                 | 34.648                                   | 4.655                               | 35.986                                 | -0.64%         | -3.72%           |
|                                    |                |                                     | 5210                     | 4.638                                 | 34.625                                   | 4.666                               | 35.975                                 | -0.60%         | -3.75%           |
|                                    |                |                                     | 5220                     | 4.650                                 | 34.601                                   | 4.676                               | 35.963                                 | -0.56%         | -3.79%           |
|                                    |                |                                     | 5240                     | 4.674                                 | 34.571                                   | 4.696                               | 35.940                                 | -0.47%         | -3.81%           |
|                                    |                |                                     | 5250                     | 4.687                                 | 34.557                                   | 4.706                               | 35.929                                 | -0.40%         | -3.82%           |
|                                    |                |                                     | 5260                     | 4.697                                 | 34.539                                   | 4.717                               | 35.917                                 | -0.42%         | -3.84%           |
|                                    |                |                                     | 5270                     | 4.707                                 | 34.523                                   | 4.727                               | 35.906                                 | -0.42%         | -3.85%           |
|                                    |                |                                     | 5290                     | 4.716                                 | 34.501                                   | 4.737                               | 35.894                                 | -0.44%         | -3.88%           |
|                                    |                |                                     | 5290                     | 4.728                                 | 34.480                                   | 4.748                               | 35.883                                 | -0.42%         | -3.91%           |
| 10/14/2024                         | 5200-5800 Head | 20.8                                | 5300                     | 4.743                                 | 34.458                                   | 4.758                               | 35.871                                 | -0.32%         | -3.94%           |
|                                    |                |                                     | 5310                     | 4.755                                 | 34.441                                   | 4.768                               | 35.860                                 | -0.27%         | -3.96%           |
|                                    |                |                                     | 5320                     | 4.766                                 | 34.426                                   | 4.778                               | 35.849                                 | -0.25%         | -3.97%           |
|                                    |                |                                     | 5500                     | 4.956                                 | 34.105                                   | 4.963                               | 35.643                                 | -0.14%         | -4.32%           |
|                                    |                |                                     | 5510                     | 4.968                                 | 34.076                                   | 4.973                               | 35.632                                 | -0.10%         | -4.37%           |
|                                    |                |                                     | 5520                     | 4.982                                 | 34.057                                   | 4.983                               | 35.620                                 | -0.02%         | -4.39%           |
|                                    |                |                                     | 5530                     | 4.998                                 | 34.032                                   | 4.994                               | 35.609                                 | 0.08%          | -4.43%           |
|                                    |                |                                     | 5540                     | 5.010                                 | 34.013                                   | 5.004                               | 35.597                                 | 0.12%          | -4.45%           |
|                                    |                |                                     | 5550                     | 5.021                                 | 34.003                                   | 5.014                               | 35.586                                 | 0.14%          | -4.45%           |
|                                    |                |                                     | 5560                     | 5.033                                 | 33.993                                   | 5.024                               | 35.574                                 | 0.18%          | -4.44%           |
|                                    |                |                                     | 5580                     | 5.057                                 | 33.942                                   | 5.045                               | 35.551                                 | 0.24%          | -4.53%           |
|                                    |                |                                     | 5600                     | 5.080                                 | 33.886                                   | 5.065                               | 35.529                                 | 0.30%          | -4.62%           |
|                                    |                |                                     | 5610                     | 5.096                                 | 33.863                                   | 5.076                               | 35.518                                 | 0.39%          | -4.66%           |
|                                    |                |                                     | 5620                     | 5.114                                 | 33.843                                   | 5.086                               | 35.506                                 | 0.55%          | -4.68%           |
|                                    |                |                                     | 5640                     | 5.139                                 | 33.819                                   | 5.106                               | 35.483                                 | 0.65%          | -4.69%           |
|                                    |                |                                     | 5660                     | 5.162                                 | 33.791                                   | 5.127                               | 35.460                                 | 0.68%          | -4.71%           |
|                                    |                |                                     | 5670                     | 5.177                                 | 33.768                                   | 5.137                               | 35.449                                 | 0.78%          | -4.74%           |
|                                    |                |                                     | 5680                     | 5.192                                 | 33.746                                   | 5.147                               | 35.437                                 | 0.87%          | -4.77%           |
|                                    |                |                                     | 5690                     | 5.206                                 | 33.729                                   | 5.158                               | 35.426                                 | 0.93%          | -4.79%           |
|                                    |                |                                     | 5700                     | 5.219                                 | 33.717                                   | 5.168                               | 35.414                                 | 0.99%          | -4.79%           |
|                                    |                |                                     | 5710                     | 5.230                                 | 33.704                                   | 5.178                               | 35.403                                 | 1.00%          | -4.80%           |
|                                    |                |                                     | 5720                     | 5.243                                 | 33.694                                   | 5.188                               | 35.391                                 | 1.06%          | -4.80%           |
|                                    |                |                                     | 5745                     | 5.271                                 | 33.653                                   | 5.214                               | 35.363                                 | 1.09%          | -4.84%           |
|                                    |                |                                     | 5750                     | 5.277                                 | 33.639                                   | 5.219                               | 35.357                                 | 1.11%          | -4.85%           |
|                                    |                |                                     | 5755                     | 5.282                                 | 33.631                                   | 5.224                               | 35.351                                 | 1.11%          | -4.87%           |
|                                    |                |                                     | 5765                     | 5.294                                 | 33.620                                   | 5.234                               | 35.340                                 | 1.15%          | -4.87%           |
|                                    |                |                                     | 5775                     | 5.305                                 | 33.621                                   | 5.245                               | 35.329                                 | 1.14%          | -4.83%           |
|                                    |                |                                     | 5785                     | 5.317                                 | 33.617                                   | 5.255                               | 35.317                                 | 1.18%          | -4.81%           |
|                                    |                |                                     | 5795                     | 5.330                                 | 33.602                                   | 5.265                               | 35.305                                 | 1.23%          | -4.82%           |
|                                    |                |                                     | 5800                     | 5.336                                 | 33.589                                   | 5.270                               | 35.300                                 | 1.25%          | -4.85%           |
|                                    |                |                                     | 5800                     | 5.336                                 | 33.589                                   | 5.270                               | 35.300                                 | 1.25%          | -4.85%           |
|                                    |                |                                     | 5805                     | 5.341                                 | 33.576                                   | 5.275                               | 35.294                                 | 1.25%          | -4.87%           |
|                                    |                |                                     | 5825                     | 5.364                                 | 33.544                                   | 5.296                               | 35.271                                 | 1.28%          | -4.90%           |
|                                    |                |                                     | 5835                     | 5.375                                 | 33.524                                   | 5.305                               | 35.250                                 | 1.39%          | -4.84%           |
|                                    |                |                                     | 5845                     | 5.391                                 | 33.505                                   | 5.315                               | 35.210                                 | 1.43%          | -4.84%           |
|                                    |                |                                     | 5850                     | 5.394                                 | 33.498                                   | 5.320                               | 35.200                                 | 1.39%          | -4.84%           |
|                                    |                |                                     | 5855                     | 5.398                                 | 33.493                                   | 5.325                               | 35.197                                 | 1.37%          | -4.84%           |
|                                    |                |                                     | 5865                     | 5.409                                 | 33.491                                   | 5.336                               | 35.190                                 | 1.37%          | -4.83%           |
|                                    |                |                                     | 5865                     | 5.409                                 | 33.491                                   | 5.336                               | 35.190                                 | 1.37%          | -4.83%           |
|                                    |                |                                     | 5865                     | 5.409                                 | 33.491                                   | 5.336                               | 35.190                                 | 1.37%          | -4.83%           |
|                                    |                |                                     | 5865                     | 5.409                                 | 33.491                                   | 5.336                               | 35.190                                 | 1.37%          | -4.83%           |
|                                    |                |                                     | 5875                     | 5.422                                 | 33.486                                   | 5.347                               | 35.183                                 | 1.40%          | -4.82%           |
|                                    |                |                                     | 5885                     | 5.435                                 | 33.469                                   | 5.357                               | 35.177                                 | 1.47%          | -4.88%           |
|                                    |                |                                     | 5895                     | 5.453                                 | 33.409                                   | 5.379                               | 35.163                                 | 1.38%          | -4.99%           |

|                                             |                                |                                   |
|---------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: A3LSMS938B                          | RF EXPOSURE PART 1 TEST REPORT | Approved by:<br>Technical Manager |
| Document S/N:<br>1M2408260069-01.A3L (Rev1) | DUT Type:<br>Portable Handset  | Page 86 of 131                    |

**Table 11-5**  
**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 $\epsilon$ |
|------------------------------------|-------------|-------------------------------------|--------------------------|---------------------------------------|------------------------------------------|-------------------------------------|----------------------------------------|----------------|------------------|
| 10/14/2024                         | 6000 Head   | 20.6                                | 5935                     | 5.355                                 | 34.518                                   | 5.411                               | 35.143                                 | -1.03%         | -1.78%           |
|                                    |             |                                     | 5970                     | 5.387                                 | 34.462                                   | 5.448                               | 35.120                                 | -1.12%         | -1.87%           |
|                                    |             |                                     | 5985                     | 5.408                                 | 34.426                                   | 5.464                               | 35.110                                 | -1.02%         | -1.95%           |
|                                    |             |                                     | 6000                     | 5.433                                 | 34.390                                   | 5.480                               | 35.100                                 | -0.86%         | -2.02%           |
|                                    |             |                                     | 6025                     | 5.471                                 | 34.341                                   | 5.510                               | 35.070                                 | -0.71%         | -2.08%           |
|                                    |             |                                     | 6065                     | 5.511                                 | 34.293                                   | 5.557                               | 35.022                                 | -0.83%         | -2.11%           |
|                                    |             |                                     | 6075                     | 5.523                                 | 34.296                                   | 5.569                               | 35.010                                 | -0.83%         | -2.13%           |
|                                    |             |                                     | 6085                     | 5.538                                 | 34.246                                   | 5.580                               | 34.998                                 | -0.75%         | -2.15%           |
|                                    |             |                                     | 6185                     | 5.658                                 | 34.090                                   | 5.698                               | 34.878                                 | -0.70%         | -2.29%           |
|                                    |             |                                     | 6275                     | 5.772                                 | 33.893                                   | 5.805                               | 34.770                                 | -0.57%         | -2.52%           |
|                                    |             |                                     | 6285                     | 5.780                                 | 33.874                                   | 5.816                               | 34.758                                 | -0.62%         | -2.54%           |
|                                    |             |                                     | 6305                     | 5.805                                 | 33.839                                   | 5.840                               | 34.734                                 | -0.60%         | -2.58%           |
|                                    |             |                                     | 6345                     | 5.858                                 | 33.788                                   | 5.887                               | 34.686                                 | -0.49%         | -2.59%           |
|                                    |             |                                     | 6475                     | 6.001                                 | 33.575                                   | 6.041                               | 34.530                                 | -0.66%         | -2.77%           |
|                                    |             |                                     | 6485                     | 6.010                                 | 33.552                                   | 6.052                               | 34.518                                 | -0.69%         | -2.80%           |
|                                    |             |                                     | 6500                     | 6.029                                 | 33.510                                   | 6.070                               | 34.500                                 | -0.68%         | -2.87%           |
|                                    |             |                                     | 6505                     | 6.035                                 | 33.497                                   | 6.076                               | 34.494                                 | -0.67%         | -2.89%           |
|                                    |             |                                     | 6545                     | 6.094                                 | 33.418                                   | 6.122                               | 34.446                                 | -0.46%         | -2.95%           |
|                                    |             |                                     | 6665                     | 6.240                                 | 33.197                                   | 6.265                               | 34.302                                 | -0.40%         | -3.22%           |
|                                    |             |                                     | 6675                     | 6.250                                 | 33.195                                   | 6.273                               | 34.290                                 | -0.37%         | -3.19%           |
|                                    |             |                                     | 6685                     | 6.257                                 | 33.181                                   | 6.285                               | 34.278                                 | -0.45%         | -3.20%           |
|                                    |             |                                     | 6715                     | 6.275                                 | 33.111                                   | 6.319                               | 34.242                                 | -0.70%         | -3.30%           |
|                                    |             |                                     | 6785                     | 6.382                                 | 33.025                                   | 6.400                               | 34.158                                 | -0.28%         | -3.32%           |
|                                    |             |                                     | 6825                     | 6.406                                 | 32.936                                   | 6.447                               | 34.110                                 | -0.64%         | -3.44%           |
|                                    |             |                                     | 6985                     | 6.613                                 | 32.656                                   | 6.633                               | 33.918                                 | -0.30%         | -3.72%           |
|                                    |             |                                     | 7025                     | 6.638                                 | 32.633                                   | 6.680                               | 33.870                                 | -0.63%         | -3.65%           |
|                                    |             |                                     | 7500                     | 7.242                                 | 31.752                                   | 7.240                               | 33.300                                 | 0.03%          | -4.65%           |
| 10/21/2024                         | 6000 Head   | 21.0                                | 5935                     | 5.313                                 | 34.736                                   | 5.411                               | 35.143                                 | -1.81%         | -1.16%           |
|                                    |             |                                     | 5970                     | 5.344                                 | 34.681                                   | 5.448                               | 35.120                                 | -1.91%         | -1.25%           |
|                                    |             |                                     | 5985                     | 5.367                                 | 34.641                                   | 5.464                               | 35.110                                 | -1.78%         | -1.34%           |
|                                    |             |                                     | 6000                     | 5.402                                 | 34.629                                   | 5.480                               | 35.100                                 | -1.42%         | -1.34%           |
|                                    |             |                                     | 6025                     | 5.469                                 | 34.661                                   | 5.510                               | 35.070                                 | -0.74%         | -1.17%           |
|                                    |             |                                     | 6065                     | 5.498                                 | 34.645                                   | 5.557                               | 35.022                                 | -1.06%         | -1.08%           |
|                                    |             |                                     | 6075                     | 5.500                                 | 34.625                                   | 5.569                               | 35.010                                 | -1.24%         | -1.16%           |
|                                    |             |                                     | 6085                     | 5.507                                 | 34.598                                   | 5.580                               | 34.998                                 | -1.31%         | -1.26%           |
|                                    |             |                                     | 6185                     | 5.628                                 | 34.372                                   | 5.698                               | 34.878                                 | -1.23%         | -1.45%           |
|                                    |             |                                     | 6275                     | 5.747                                 | 34.208                                   | 5.805                               | 34.770                                 | -1.00%         | -1.62%           |
|                                    |             |                                     | 6285                     | 5.754                                 | 34.187                                   | 5.816                               | 34.758                                 | -1.07%         | -1.64%           |
|                                    |             |                                     | 6305                     | 5.762                                 | 34.157                                   | 5.840                               | 34.734                                 | -1.34%         | -1.66%           |
|                                    |             |                                     | 6345                     | 5.822                                 | 34.061                                   | 5.887                               | 34.686                                 | -1.10%         | -1.80%           |
|                                    |             |                                     | 6475                     | 5.990                                 | 33.844                                   | 6.041                               | 34.530                                 | -0.84%         | -1.99%           |
|                                    |             |                                     | 6485                     | 5.999                                 | 33.843                                   | 6.052                               | 34.518                                 | -0.88%         | -1.96%           |
|                                    |             |                                     | 6500                     | 6.006                                 | 33.848                                   | 6.070                               | 34.500                                 | -1.05%         | -1.89%           |
|                                    |             |                                     | 6505                     | 6.008                                 | 33.840                                   | 6.076                               | 34.494                                 | -1.12%         | -1.90%           |
|                                    |             |                                     | 6545                     | 6.048                                 | 33.693                                   | 6.122                               | 34.446                                 | -1.21%         | -2.22%           |
|                                    |             |                                     | 6665                     | 6.196                                 | 33.454                                   | 6.265                               | 34.302                                 | -1.10%         | -2.38%           |
|                                    |             |                                     | 6675                     | 6.208                                 | 33.435                                   | 6.273                               | 34.290                                 | -1.04%         | -2.49%           |
|                                    |             |                                     | 6685                     | 6.221                                 | 33.420                                   | 6.285                               | 34.278                                 | -1.02%         | -2.50%           |
|                                    |             |                                     | 6715                     | 6.269                                 | 33.431                                   | 6.319                               | 34.242                                 | -0.79%         | -2.37%           |
|                                    |             |                                     | 6785                     | 6.340                                 | 33.221                                   | 6.400                               | 34.158                                 | -0.94%         | -2.74%           |
|                                    |             |                                     | 6825                     | 6.395                                 | 33.236                                   | 6.447                               | 34.110                                 | -0.79%         | -2.56%           |
|                                    |             |                                     | 6985                     | 6.553                                 | 33.003                                   | 6.633                               | 33.918                                 | -1.21%         | -2.70%           |
|                                    |             |                                     | 6995                     | 6.558                                 | 32.963                                   | 6.644                               | 33.906                                 | -1.29%         | -2.78%           |
|                                    |             |                                     | 7000                     | 6.560                                 | 32.943                                   | 6.650                               | 33.900                                 | -1.35%         | -2.82%           |
|                                    |             |                                     | 7005                     | 6.563                                 | 32.928                                   | 6.656                               | 33.894                                 | -1.40%         | -2.85%           |
|                                    |             |                                     | 7025                     | 6.590                                 | 32.867                                   | 6.680                               | 33.870                                 | -1.35%         | -2.96%           |
|                                    |             |                                     | 7500                     | 7.129                                 | 32.080                                   | 7.240                               | 33.300                                 | -1.53%         | -3.66%           |
| 11/04/2024                         | 6000 Head   | 20.1                                | 7980                     | 7.732                                 | 31.341                                   | 7.816                               | 32.724                                 | -1.07%         | -4.23%           |
|                                    |             |                                     | 8000                     | 7.787                                 | 31.449                                   | 7.840                               | 32.700                                 | -0.68%         | -3.83%           |
|                                    |             |                                     | 5935                     | 5.591                                 | 35.234                                   | 5.411                               | 35.143                                 | 3.33%          | 0.26%            |
|                                    |             |                                     | 5970                     | 5.604                                 | 35.002                                   | 5.448                               | 35.120                                 | 2.86%          | -0.34%           |
|                                    |             |                                     | 5985                     | 5.655                                 | 34.929                                   | 5.464                               | 35.110                                 | 3.50%          | -0.52%           |
|                                    |             |                                     | 6000                     | 5.683                                 | 34.961                                   | 5.480                               | 35.100                                 | 3.70%          | -0.40%           |
|                                    |             |                                     | 6025                     | 5.695                                 | 34.903                                   | 5.510                               | 35.070                                 | 2.65%          | -0.48%           |
|                                    |             |                                     | 6065                     | 5.735                                 | 34.746                                   | 5.557                               | 35.022                                 | 3.20%          | -0.79%           |
|                                    |             |                                     | 6075                     | 5.757                                 | 34.726                                   | 5.569                               | 35.010                                 | 3.38%          | -0.81%           |
|                                    |             |                                     | 6085                     | 5.789                                 | 34.723                                   | 5.580                               | 34.998                                 | 3.75%          | -0.79%           |
|                                    |             |                                     | 6185                     | 5.916                                 | 34.565                                   | 5.698                               | 34.878                                 | 3.83%          | -0.90%           |
|                                    |             |                                     | 6275                     | 6.019                                 | 34.384                                   | 5.805                               | 34.770                                 | 3.69%          | -1.11%           |
|                                    |             |                                     | 6285                     | 6.033                                 | 34.404                                   | 5.816                               | 34.758                                 | 3.73%          | -1.02%           |
|                                    |             |                                     | 6305                     | 6.046                                 | 34.437                                   | 5.840                               | 34.734                                 | 3.53%          | -0.86%           |
|                                    |             |                                     | 6345                     | 6.077                                 | 34.250                                   | 5.887                               | 34.686                                 | 3.23%          | -1.26%           |
|                                    |             |                                     | 6475                     | 6.254                                 | 34.015                                   | 6.041                               | 34.530                                 | 3.53%          | -1.49%           |
|                                    |             |                                     | 6485                     | 6.262                                 | 33.992                                   | 6.052                               | 34.518                                 | 3.47%          | -1.52%           |
|                                    |             |                                     | 6500                     | 6.267                                 | 34.028                                   | 6.070                               | 34.500                                 | 3.25%          | -1.37%           |
|                                    |             |                                     | 6505                     | 6.274                                 | 34.027                                   | 6.076                               | 34.494                                 | 3.26%          | -1.35%           |
|                                    |             |                                     | 6545                     | 6.320                                 | 33.827                                   | 6.122                               | 34.446                                 | 3.23%          | -1.80%           |
|                                    |             |                                     | 6665                     | 6.517                                 | 33.607                                   | 6.265                               | 34.302                                 | 4.02%          | -2.03%           |
|                                    |             |                                     | 6675                     | 6.518                                 | 33.642                                   | 6.273                               | 34.290                                 | 3.91%          | -1.89%           |
|                                    |             |                                     | 6685                     | 6.520                                 | 33.708                                   | 6.285                               | 34.278                                 | 3.74%          | -1.66%           |
|                                    |             |                                     | 6715                     | 6.540                                 | 33.609                                   | 6.319                               | 34.242                                 | 3.50%          | -1.85%           |
|                                    |             |                                     | 6785                     | 6.637                                 | 33.544                                   | 6.400                               | 34.158                                 | 3.70%          | -1.80%           |
|                                    |             |                                     | 6825                     | 6.632                                 | 33.313                                   | 6.447                               | 34.110                                 | 2.87%          | -2.34%           |
|                                    |             |                                     | 6985                     | 6.838                                 | 33.053                                   | 6.633                               | 33.918                                 | 3.09%          | -2.55%           |
|                                    |             |                                     | 6995                     | 6.837                                 | 33.012                                   | 6.644                               | 33.906                                 | 2.90%          | -2.64%           |
|                                    |             |                                     | 7000                     | 6.829                                 | 32.982                                   | 6.650                               | 33.900                                 | 2.69%          | -2.71%           |
|                                    |             |                                     | 7005                     | 6.819                                 | 32.954                                   | 6.656                               | 33.894                                 | 2.45%          | -2.77%           |
|                                    |             |                                     | 7025                     | 6.826                                 | 32.865                                   | 6.680                               | 33.870                                 | 2.19%          | -2.97%           |

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.

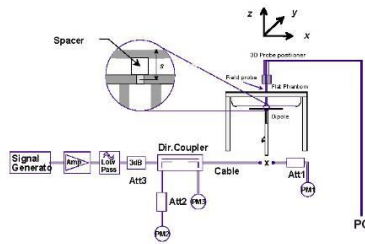
|                                                    |                                       |                                          |
|----------------------------------------------------|---------------------------------------|------------------------------------------|
| <b>FCC ID: A3LSMS938B</b>                          | <b>RF EXPOSURE PART 1 TEST REPORT</b> | <b>Approved by:</b><br>Technical Manager |
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## 11.2 SAR 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 SAR System Validation Appendix.

**Table 11-6**  
**System Verification Results – 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 | DAE  | Measured SAR 1g (W/kg) | 1W Target SAR 1g (W/kg) | 1W Normalized SAR 1g (W/kg) | Deviation 1g (%) | Measured SAR 10g (W/kg) | 1W Target SAR 10g (W/kg) | 1W Normalized SAR 10g (W/kg) | Deviation 10g (%) | Measured 4cm2 APD (W/m2) | 1W Target 4cm2 APD (W/m2) | 1W Normalized 4cm2 APD | Deviation 4cm2 APD (%) |
| AM14                                     | 13                     | HEAD        | 10-07-2024 | 22.6            | 23.2              | 1.00            | 1004      | 7308     | 534  | 0.55                   | 0.58                    | 0.55                        | -4.50%           | 0.34                    | 0.36                     | 0.34                         | -4.78%            | N/A                      | N/A                       | N/A                    | N/A                    |
| J                                        | 750                    | HEAD        | 09-17-2024 | 23.9            | 23.0              | 0.20            | 1161      | 7406     | 1677 | 1.73                   | 8.44                    | 8.65                        | 2.49%            | 1.13                    | 5.51                     | 5.65                         | 2.54%             | N/A                      | N/A                       | N/A                    | N/A                    |
| S                                        | 750                    | HEAD        | 10-09-2024 | 23.2            | 22.6              | 0.20            | 1054      | 7803     | 1583 | 1.77                   | 8.52                    | 8.85                        | 3.87%            | 1.18                    | 5.60                     | 5.90                         | 5.36%             | N/A                      | N/A                       | N/A                    | N/A                    |
| J                                        | 835                    | HEAD        | 09-15-2024 | 24.3            | 23.1              | 0.20            | 40047     | 7406     | 1677 | 2.05                   | 9.65                    | 10.25                       | 6.22%            | 1.33                    | 6.31                     | 6.65                         | 5.39%             | N/A                      | N/A                       | N/A                    | N/A                    |
| J                                        | 835                    | HEAD        | 09-17-2024 | 23.9            | 23.0              | 0.20            | 40047     | 7406     | 1677 | 2.07                   | 9.65                    | 10.35                       | 7.25%            | 1.34                    | 6.31                     | 6.70                         | 6.18%             | N/A                      | N/A                       | N/A                    | N/A                    |
| K3                                       | 835                    | HEAD        | 10-02-2024 | 22.7            | 21.7              | 0.20            | 40119     | 7558     | 1364 | 1.95                   | 9.96                    | 9.75                        | -2.11%           | 1.28                    | 6.48                     | 6.40                         | -1.23%            | N/A                      | N/A                       | N/A                    | N/A                    |
| K6                                       | 835                    | HEAD        | 10-23-2024 | 20.5            | 20.5              | 0.20            | 40119     | 7402     | 1502 | 2.10                   | 9.96                    | 10.50                       | 5.42%            | 1.38                    | 6.48                     | 6.90                         | 6.48%             | N/A                      | N/A                       | N/A                    | N/A                    |
| S                                        | 1750                   | HEAD        | 09-15-2024 | 22.5            | 21.1              | 0.10            | 1148      | 7803     | 1583 | 3.72                   | 37.20                   | 37.20                       | 0.00%            | 2.01                    | 19.40                    | 20.10                        | 3.61%             | N/A                      | N/A                       | N/A                    | N/A                    |
| C                                        | 1750                   | HEAD        | 09-16-2024 | 22.6            | 21.8              | 0.10            | 1150      | 7659     | 1407 | 3.83                   | 36.90                   | 38.30                       | 3.79%            | 2.05                    | 19.40                    | 20.50                        | 5.67%             | N/A                      | N/A                       | N/A                    | N/A                    |
| E                                        | 1750                   | HEAD        | 09-16-2024 | 22.3            | 22.0              | 0.10            | 1150      | 7409     | 1334 | 3.87                   | 36.90                   | 38.70                       | 4.88%            | 2.07                    | 19.40                    | 20.70                        | 6.70%             | N/A                      | N/A                       | N/A                    | N/A                    |
| O                                        | 1750                   | HEAD        | 09-16-2024 | 21.9            | 21.0              | 0.10            | 1148      | 3914     | 728  | 3.82                   | 37.20                   | 38.20                       | 2.69%            | 2.05                    | 19.40                    | 20.50                        | 5.67%             | N/A                      | N/A                       | N/A                    | N/A                    |
| K4                                       | 1750                   | HEAD        | 10-02-2024 | 20.0            | 19.3              | 0.10            | 1092      | 7565     | 1466 | 3.80                   | 36.80                   | 38.00                       | 3.26%            | 2.02                    | 19.40                    | 20.20                        | 4.12%             | N/A                      | N/A                       | N/A                    | N/A                    |
| E                                        | 1750                   | HEAD        | 10-02-2024 | 23.5            | 22.4              | 0.10            | 1148      | 7409     | 1334 | 3.67                   | 37.20                   | 36.70                       | -1.34%           | 1.95                    | 19.40                    | 19.50                        | 0.52%             | N/A                      | N/A                       | N/A                    | N/A                    |
| K4                                       | 1750                   | HEAD        | 10-16-2024 | 22.2            | 21.9              | 0.10            | 1051      | 7565     | 1466 | 3.87                   | 37.00                   | 38.70                       | 4.59%            | 2.06                    | 19.50                    | 20.60                        | 5.64%             | N/A                      | N/A                       | N/A                    | N/A                    |
| S                                        | 1900                   | HEAD        | 09-15-2024 | 22.5            | 21.1              | 0.10            | 50880     | 7803     | 1583 | 4.32                   | 39.60                   | 43.20                       | 9.09%            | N/A                     | N/A                      | N/A                          | N/A               | N/A                      | N/A                       | N/A                    | N/A                    |
| E                                        | 1900                   | HEAD        | 09-16-2024 | 22.3            | 22.0              | 0.10            | 50148     | 7409     | 1334 | 4.25                   | 40.10                   | 42.50                       | 5.99%            | 2.20                    | 21.00                    | 22.00                        | 4.76%             | N/A                      | N/A                       | N/A                    | N/A                    |
| C                                        | 1900                   | HEAD        | 09-16-2024 | 22.6            | 21.8              | 0.10            | 50148     | 7659     | 1407 | 4.18                   | 40.10                   | 41.80                       | 4.24%            | 2.16                    | 21.00                    | 21.60                        | 2.86%             | N/A                      | N/A                       | N/A                    | N/A                    |
| O                                        | 1900                   | HEAD        | 09-16-2024 | 21.9            | 21.0              | 0.10            | 50880     | 3914     | 728  | 4.20                   | 39.60                   | 42.00                       | 6.06%            | 2.20                    | 20.70                    | 22.00                        | 6.28%             | N/A                      | N/A                       | N/A                    | N/A                    |
| K4                                       | 1900                   | HEAD        | 10-02-2024 | 20.0            | 19.3              | 0.10            | 50206     | 7565     | 1466 | 4.14                   | 39.80                   | 41.40                       | 4.02%            | 2.14                    | 20.70                    | 21.40                        | 3.38%             | N/A                      | N/A                       | N/A                    | N/A                    |
| O                                        | 1900                   | HEAD        | 10-07-2024 | 21.9            | 21.1              | 0.10            | 50148     | 3914     | 728  | 4.23                   | 40.10                   | 42.30                       | 5.49%            | 2.21                    | 21.00                    | 22.10                        | 5.24%             | N/A                      | N/A                       | N/A                    | N/A                    |
| K4                                       | 1900                   | HEAD        | 10-16-2024 | 22.2            | 21.9              | 0.10            | 50141     | 7565     | 1466 | 4.09                   | 40.30                   | 40.90                       | 1.49%            | 2.12                    | 21.00                    | 21.20                        | 0.95%             | N/A                      | N/A                       | N/A                    | N/A                    |
| K2                                       | 2450                   | HEAD        | 10-02-2024 | 20.9            | 20.9              | 0.10            | 945       | 7640     | 1645 | 5.62                   | 53.40                   | 56.20                       | 5.24%            | 2.62                    | 25.10                    | 26.20                        | 4.38%             | N/A                      | N/A                       | N/A                    | N/A                    |
| K2                                       | 2450                   | HEAD        | 10-14-2024 | 21.0            | 20.8              | 0.10            | 945       | 7640     | 1645 | 5.46                   | 53.40                   | 54.60                       | 2.25%            | 2.55                    | 25.10                    | 25.50                        | 1.59%             | N/A                      | N/A                       | N/A                    | N/A                    |
| K3                                       | 2450                   | HEAD        | 10-21-2024 | 22.2            | 21.0              | 0.10            | 882       | 7558     | 1364 | 5.53                   | 53.00                   | 55.30                       | 4.34%            | 2.59                    | 24.90                    | 25.90                        | 4.02%             | N/A                      | N/A                       | N/A                    | N/A                    |
| K2                                       | 2450                   | HEAD        | 10-23-2024 | 20.0            | 20.2              | 0.10            | 945       | 7640     | 1645 | 5.52                   | 53.40                   | 55.20                       | 3.37%            | 2.57                    | 25.10                    | 25.70                        | 2.39%             | N/A                      | N/A                       | N/A                    | N/A                    |
| K2                                       | 2450                   | HEAD        | 11-04-2024 | 20.7            | 21.0              | 0.10            | 945       | 7640     | 1645 | 5.54                   | 53.40                   | 55.40                       | 3.75%            | 2.58                    | 25.10                    | 25.80                        | 2.79%             | N/A                      | N/A                       | N/A                    | N/A                    |
| K2                                       | 2600                   | HEAD        | 10-02-2024 | 20.9            | 20.9              | 0.10            | 1009      | 7640     | 1645 | 5.62                   | 56.60                   | 56.20                       | -0.71%           | 2.53                    | 25.50                    | 25.30                        | -0.78%            | N/A                      | N/A                       | N/A                    | N/A                    |
| K2                                       | 2600                   | HEAD        | 10-07-2024 | 21.0            | 21.1              | 0.10            | 1009      | 7640     | 1645 | 5.53                   | 56.60                   | 55.30                       | -2.30%           | 2.49                    | 25.50                    | 24.90                        | -2.35%            | N/A                      | N/A                       | N/A                    | N/A                    |
| K2                                       | 2600                   | HEAD        | 10-09-2024 | 21.0            | 21.0              | 0.10            | 1009      | 7640     | 1645 | 5.26                   | 56.60                   | 52.60                       | -7.07%           | 2.37                    | 25.50                    | 23.70                        | -7.06%            | N/A                      | N/A                       | N/A                    | N/A                    |
| K2                                       | 2600                   | HEAD        | 10-14-2024 | 21.0            | 20.8              | 0.10            | 1009      | 7640     | 1645 | 5.56                   | 56.60                   | 55.60                       | -1.77%           | 2.50                    | 25.50                    | 25.00                        | -1.96%            | N/A                      | N/A                       | N/A                    | N/A                    |
| K4                                       | 3500                   | HEAD        | 10-07-2024 | 21.4            | 20.4              | 0.10            | 1127      | 7565     | 1466 | 6.40                   | 65.60                   | 64.00                       | -2.44%           | 2.45                    | 24.80                    | 24.50                        | -1.21%            | N/A                      | N/A                       | N/A                    | N/A                    |
| K4                                       | 3500                   | HEAD        | 10-14-2024 | 21.4            | 20.8              | 0.10            | 1127      | 7565     | 1466 | 6.37                   | 65.60                   | 63.70                       | -2.90%           | 2.44                    | 24.80                    | 24.40                        | -1.61%            | N/A                      | N/A                       | N/A                    | N/A                    |
| K4                                       | 3700                   | HEAD        | 10-07-2024 | 21.4            | 20.4              | 0.10            | 1096      | 7565     | 1466 | 6.78                   | 67.60                   | 67.80                       | 0.30%            | 2.52                    | 24.70                    | 25.20                        | 2.02%             | N/A                      | N/A                       | N/A                    | N/A                    |
| K4                                       | 3700                   | HEAD        | 10-14-2024 | 21.4            | 20.8              | 0.10            | 1096      | 7565     | 1466 | 6.68                   | 67.60                   | 66.80                       | -1.18%           | 2.48                    | 24.70                    | 24.80                        | 0.40%             | N/A                      | N/A                       | N/A                    | N/A                    |
| K4                                       | 3900                   | HEAD        | 10-07-2024 | 21.4            | 20.4              | 0.10            | 1074      | 7565     | 1466 | 7.02                   | 68.70                   | 70.20                       | 2.18%            | 2.47                    | 24.00                    | 24.70                        | 2.92%             | N/A                      | N/A                       | N/A                    | N/A                    |
| K4                                       | 3900                   | HEAD        | 10-14-2024 | 21.4            | 20.8              | 0.10            | 1074      | 7565     | 1466 | 6.67                   | 68.70                   | 66.70                       | -2.91%           | 2.36                    | 24.00                    | 23.60                        | -1.67%            | N/A                      | N/A                       | N/A                    | N/A                    |
| K6                                       | 5250                   | HEAD        | 10-14-2024 | 20.8            | 20.8              | 0.05            | 1237      | 7402     | 1502 | 3.73                   | 80.10                   | 74.60                       | -6.87%           | 1.06                    | 22.90                    | 21.20                        | -7.42%            | N/A                      | N/A                       | N/A                    | N/A                    |
| K6                                       | 5600                   | HEAD        | 10-14-2024 | 20.8            | 20.8              | 0.05            | 1237      | 7402     | 1502 | 4.08                   | 82.00                   | 81.60                       | -0.49%           | 1.16                    | 23.30                    | 23.20                        | -0.43%            | N/A                      | N/A                       | N/A                    | N/A                    |
| K6                                       | 5750                   | HEAD        | 10-14-2024 | 20.8            | 20.8              | 0.05            | 1237      | 7402     | 1502 | 4.03                   | 79.20                   | 80.60                       | 1.77%            | 1.15                    | 22.50                    | 23.00                        | 2.22%             | N/A                      | N/A                       | N/A                    | N/A                    |
| K6                                       | 5850                   | HEAD        | 10-14-2024 | 20.8            | 20.8              | 0.05            | 1237      | 7402     | 1502 | 3.99                   | 80.40                   | 79.80                       | -0.75%           | 1.14                    | 22.80                    | 22.80                        | 0.00%             | N/A                      | N/A                       | N/A                    | N/A                    |
| AM7                                      | 6500                   | HEAD        | 10-14-2024 | 21.0            | 19.8              | 0.03            | 1018      | 7421     | 604  | 6.89                   | 293.00                  | 275.60                      | -5.94%           | 1.27                    | 53.90                    | 50.80                        | -5.75%            | 31.00                    | 1310.00                   | 1240.00                | -5.34%                 |
| R                                        | 6500                   | HEAD        | 10-21-2024 | 21.0            | 21.0              | 0.03            | 1111      | 7527     | 1272 | 7.89                   | 291.00                  | 315.60                      | 8.45%            | 1.45                    | 53.50                    | 58.00                        | 8.41%             | 35.20                    | 1300.00                   | 1408.00                | 8.31%                  |
| C                                        | 6500                   | HEAD        | 11-04-2024 | 20.7            | 20.1              | 0.03            | 1111      | 7659     | 1407 | 6.73                   | 291.00                  | 269.20                      | -7.49%           | 1.26                    | 53.50                    | 50.40                        | -5.79%            | 30.40                    | 1300.00                   | 1216.00                | -6.46%                 |
| R                                        | 8000                   | HEAD        | 10-21-2024 | 21.0            | 21.0              | 0.03            | 1007      | 7527     | 1272 | 6.83                   | 269.00                  | 273.20                      | 1.56%            | 1.14                    | 45.30                    | 45.60                        | 0.66%             | 27.60                    | 1110.00                   | 1104.00                | -0.54%                 |



**Figure 11-1**  
**System Verification Setup Diagram**



**Figure 11-2**  
**System Verification Setup Photo**

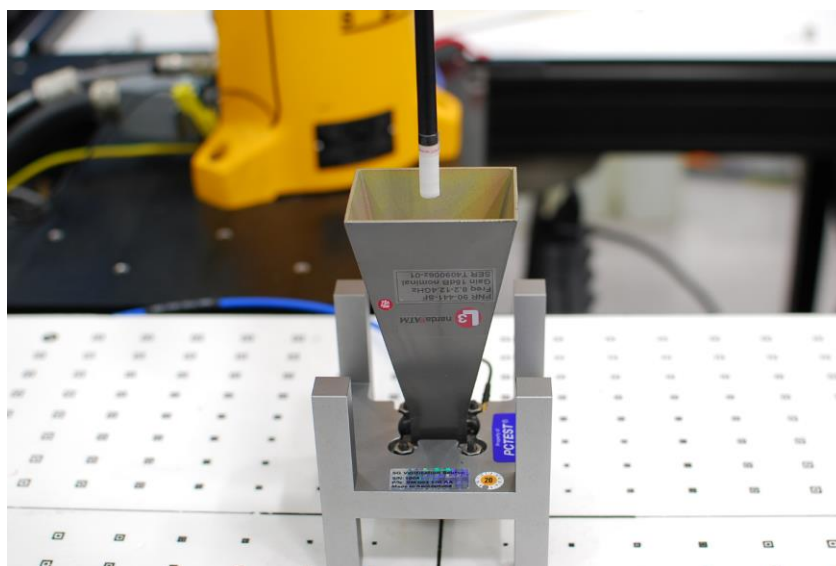
|                                             |                                |                                   |
|---------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: A3LSMS938B                          | RF EXPOSURE PART 1 TEST REPORT | Approved by:<br>Technical Manager |
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### 11.3 Power Density Test System Verification

The system was verified to be within  $\pm 0.66$  dB of the power density targets on the calibration certificate according to the test system specification in the user's manual and calibration facility recommendation. The 0.66 dB deviation threshold represents the expanded uncertainty for system performance checks using SPEAG's mmWave verification sources. The same spatial resolution and measurement region used in the source calibration was applied during the system check.

The measured power density distribution of verification source was also confirmed through visual inspection to have no noticeable differences, both spatially (shape) and numerically (level) from the distribution provided by the manufacturer, per November 2017 TCBC Workshop Notes.



**Figure 11-3**  
**System Verification Setup Photo**

**Table 11-7**  
**10 GHz Verifications**

| System Verification |                 |            |            |           |           |                                                        |        |                |                                                       |        |                |
|---------------------|-----------------|------------|------------|-----------|-----------|--------------------------------------------------------|--------|----------------|-------------------------------------------------------|--------|----------------|
| System              | Frequency (GHz) | Date       | Source S/N | Probe S/N | Prad (mW) | Normal psPD (W/m <sup>2</sup> over 4 cm <sup>2</sup> ) |        | Deviation (dB) | Total psPD (W/m <sup>2</sup> over 4 cm <sup>2</sup> ) |        | Deviation (dB) |
|                     |                 |            |            |           |           | Measured                                               | Target |                | Measured                                              | Target |                |
| Q                   | 10              | 10/20/2024 | 1002       | 9622      | 93.3      | 58.50                                                  | 54.60  | 0.30           | 58.80                                                 | 54.90  | 0.30           |
| Q                   | 10              | 10/27/2024 | 1002       | 9622      | 93.3      | 56.40                                                  | 54.60  | 0.14           | 56.70                                                 | 54.90  | 0.14           |

Note: A **10 mm distance spacing** was used from the reference horn antenna aperture to the probe element.

|                                             |                                |                                   |
|---------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: A3LSMS938B                          | RF EXPOSURE PART 1 TEST REPORT | Approved by:<br>Technical Manager |
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# 12 SAR DATA SUMMARY

## 12.1 GSM 850 Standalone SAR

Table 12-1

| Exposure                                                                                        | Band / Mode | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Drift [dB] | Frequency [MHz] | Channel # | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position                                   | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | Plimit [dBm] | Overall Plimit [dBm] | EFS Plimit [dBm] |
|-------------------------------------------------------------------------------------------------|-------------|----------------------|------|---------------|------------|------------------|-----------------|-----------|-------------------------|-----------------------|-------------------------------------------------|--------------|------------------------|----------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|
| Head                                                                                            | GSM 850     | GSM                  | A    | 0832M         | 1:8.3      | 0.04             | 824.20          | 128       | 33.6                    | 33.36                 | Right Cheek                                     | 0            | 0.066                  | 1.057                | 0.070                  | 0.242                  | 0.151                   |        | 35.9         |                      |                  |
| Head                                                                                            | GSM 850     | GSM                  | A    | 0832M         | 1:8.3      | -0.04            | 824.20          | 128       | 33.6                    | 33.36                 | Right Tilt                                      | 0            | 0.044                  | 1.057                | 0.047                  | 0.161                  | 0.101                   |        | 37.7         | 34.4                 | 29.8             |
| Head                                                                                            | GSM 850     | GSM                  | A    | 0832M         | 1:8.3      | 0.16             | 824.20          | 128       | 33.6                    | 33.36                 | Left Cheek                                      | 0            | 0.093                  | 1.057                | 0.098                  | 0.341                  | 0.213                   |        | 34.4         |                      |                  |
| Head                                                                                            | GSM 850     | GSM                  | A    | 0832M         | 1:8.3      | 0.06             | 824.20          | 128       | 33.6                    | 33.36                 | Left Tilt                                       | 0            | 0.045                  | 1.057                | 0.048                  | 0.165                  | 0.103                   |        | 37.6         |                      |                  |
| ANSI/IEEE CS6.1 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 12-2

| Exposure                                                                                        | Band / Mode | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Drift [dB] | Frequency [MHz] | Channel # | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position                                   | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | Plimit [dBm] | Overall Plimit [dBm] | EFS Plimit [dBm] |
|-------------------------------------------------------------------------------------------------|-------------|----------------------|------|---------------|------------|------------------|-----------------|-----------|-------------------------|-----------------------|-------------------------------------------------|--------------|------------------------|----------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|
| Head                                                                                            | GSM 850     | GSM                  | E    | 0832M         | 1:8.3      | 0.04             | 824.20          | 128       | 31.2                    | 30.77                 | Right Cheek                                     | 0            | 0.717                  | 1.104                | 0.792                  | 0.792                  | 0.495                   |        | 23.0         |                      |                  |
| Head                                                                                            | GSM 850     | GSM                  | E    | 0832M         | 1:8.3      | 0.01             | 824.20          | 128       | 31.2                    | 30.77                 | Right Tilt                                      | 0            | 0.583                  | 1.104                | 0.644                  | 0.644                  | 0.403                   |        | 23.9         |                      |                  |
| Head                                                                                            | GSM 850     | GSM                  | E    | 0832M         | 1:8.3      | 0.01             | 824.20          | 128       | 31.2                    | 30.77                 | Left Cheek                                      | 0            | 0.930                  | 1.104                | 1.027                  | 1.027                  | 0.642                   | A1     | 21.8         |                      |                  |
| Head                                                                                            | GSM 850     | GSM                  | E    | 0832M         | 1:8.3      | 0.06             | 836.60          | 190       | 31.2                    | 30.66                 | Left Cheek                                      | 0            | 0.800                  | 1.132                | 0.906                  | 0.906                  | 0.566                   |        | 22.4         | 21.8                 | 21.0             |
| Head                                                                                            | GSM 850     | GSM                  | E    | 0832M         | 1:8.3      | 0.03             | 848.80          | 251       | 31.2                    | 30.25                 | Left Cheek                                      | 0            | 0.709                  | 1.245                | 0.883                  | 0.883                  | 0.552                   |        | 22.5         |                      |                  |
| Head                                                                                            | GSM 850     | GSM                  | E    | 0832M         | 1:8.3      | 0.04             | 824.20          | 128       | 31.2                    | 30.77                 | Left Tilt                                       | 0            | 0.750                  | 1.104                | 0.828                  | 0.828                  | 0.518                   |        | 22.8         |                      |                  |
| Head                                                                                            | GSM 850     | GSM                  | E    | 0832M         | 1:8.3      | 0.05             | 836.60          | 190       | 31.2                    | 30.66                 | Left Tilt                                       | 0            | 0.663                  | 1.132                | 0.751                  | 0.751                  | 0.469                   |        | 23.2         |                      |                  |
| Head                                                                                            | GSM 850     | GSM                  | E    | 0832M         | 1:8.3      | 0.05             | 848.80          | 251       | 31.2                    | 30.25                 | Left Tilt                                       | 0            | 0.604                  | 1.245                | 0.752                  | 0.752                  | 0.470                   |        | 23.2         |                      |                  |
| ANSI/IEEE CS6.1 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 12-3

| Exposure                                 | Band / Mode | Service / Modulation | Ant.             | Serial Number | Duty Cycle | Power Drift [dB] | Frequency [MHz] | Channel # | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position        | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | Plimit [dBm] | Overall Plimit [dBm] | EFS Plimit [dBm] |      |
|------------------------------------------|-------------|----------------------|------------------|---------------|------------|------------------|-----------------|-----------|-------------------------|-----------------------|----------------------|--------------|------------------------|----------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|------|
| Body worn/Hotspot                        | GPRES 850   | GPRES 3 Tx Slots     | A                | 0832M         | 1:2.76     | -0.14            | 836.60          | 190       | 30.5                    | 29.85                 | Back                 | 10           | 0.337                  | 1.163                | 0.391                  | 0.918                  | 0.574                   |        | 30.1         |                      |                  |      |
|                                          | Hotspot     | GPRES 850            | GPRES 3 Tx Slots | A             | 0832M      | 1:2.76           | -0.03           | 836.60    | 190                     | 30.5                  | 29.85                | Front        | 10                     | 0.182                | 1.163                  | 0.211                  | 0.496                   | 0.310  |              | 32.8                 | 30.1             | 29.8 |
|                                          | Hotspot     | GPRES 850            | GPRES 3 Tx Slots | A             | 0832M      | 1:2.76           | 0.02            | 836.60    | 190                     | 30.5                  | 29.85                | Bottom       | 10                     | 0.113                | 1.163                  | 0.131                  | 0.308                   | 0.193  |              | 34.8                 |                  |      |
|                                          | Hotspot     | GPRES 850            | GPRES 3 Tx Slots | A             | 0832M      | 1:2.76           | -0.19           | 836.60    | 190                     | 30.5                  | 29.85                | Right        | 10                     | 0.065                | 1.163                  | 0.075                  | 0.177                   | 0.111  |              | 37.2                 |                  |      |
|                                          | Hotspot     | GPRES 850            | GPRES 3 Tx Slots | A             | 0832M      | 1:2.76           | 0.00            | 836.60    | 190                     | 30.5                  | 29.85                | Left         | 10                     | 0.147                | 1.163                  | 0.171                  | 0.400                   | 0.250  |              | 33.7                 |                  |      |
| ANSI/IEEE CS6.1 1992 - SAFETY LIMIT      |             |                      |                  |               |            |                  |                 |           |                         |                       | Body                 |              |                        |                      |                        |                        |                         |        |              |                      |                  |      |
| Spatial Peak                             |             |                      |                  |               |            |                  |                 |           |                         |                       | 1.6 W/kg (mW/g)      |              |                        |                      |                        |                        |                         |        |              |                      |                  |      |
| Uncontrolled Exposure/General Population |             |                      |                  |               |            |                  |                 |           |                         |                       | averaged over 1 gram |              |                        |                      |                        |                        |                         |        |              |                      |                  |      |

Table 12-4

| Exposure                                 | Band / Mode | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Drift [dB] | Frequency [MHz] | Channel # | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position   | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | Plimit [dBm] | Overall Plimit [dBm] | EFS Plimit [dBm] |
|------------------------------------------|-------------|----------------------|------|---------------|------------|------------------|-----------------|-----------|-------------------------|-----------------------|-----------------|--------------|------------------------|----------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|
| Body-worn/Hotspot                        | GPRES 850   | GPRES 3 Tx Slots     | E    | 0832M         | 1:2.76     | -0.01            | 836.60          | 190       | 30.5                    | 29.77                 | Back            | 10           | 0.443                  | 1.183                | 0.524                  | 0.575                  | 0.359                   | A2     | 28.8         | 27.6                 | 26.5             |
| Hotspot                                  | GPRES 850   | GPRES 3 Tx Slots     | E    | 0832M         | 1:2.76     | -0.06            | 836.60          | 190       | 30.5                    | 29.77                 | Front           | 10           | 0.551                  | 1.183                | 0.652                  | 0.715                  | 0.447                   |        | 27.5         |                      |                  |
| Hotspot                                  | GPRES 850   | GPRES 3 Tx Slots     | E    | 0832M         | 1:2.76     | 0.01             | 836.60          | 190       | 30.5                    | 29.77                 | Top             | 10           | 0.592                  | 1.183                | 0.700                  | 0.768                  | 0.480                   | A3     | 27.6         |                      |                  |
| Hotspot                                  | GPRES 850   | GPRES 3 Tx Slots     | E    | 0832M         | 1:2.76     | -0.02            | 836.60          | 190       | 30.5                    | 29.77                 | Right           | 10           | 0.342                  | 1.183                | 0.405                  | 0.444                  | 0.278                   |        | 30.0         |                      |                  |
| ANSI/IEEE CS91.5 1992 - SAFETY LIMIT     |             |                      |      |               |            |                  |                 |           |                         |                       | Body            |              |                        |                      |                        |                        |                         |        |              |                      |                  |
| Spatial Peak                             |             |                      |      |               |            |                  |                 |           |                         |                       | 1.6 W/kg (mW/g) |              |                        |                      |                        |                        |                         |        |              |                      |                  |
| Uncontrolled Exposure/General Population |             |                      |      |               |            |                  |                 |           |                         |                       |                 |              |                        |                      |                        |                        |                         |        |              |                      |                  |

|                                             |                                |  |  |  |  |  |  |  |  |  |  |  |  |  |                                   |  |  |  |  |  |
|---------------------------------------------|--------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------------------------------|--|--|--|--|--|
| FCC ID: A3LSMS938B                          | RF EXPOSURE PART 1 TEST REPORT |  |  |  |  |  |  |  |  |  |  |  |  |  | Approved by:<br>Technical Manager |  |  |  |  |  |
| Document S/N:<br>1M2408260069-01.A3L (Rev1) | DUT Type:<br>Portable Handset  |  |  |  |  |  |  |  |  |  |  |  |  |  | Page 90 of 131                    |  |  |  |  |  |

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## 12.2 GSM 1900 Standalone SAR

Table 12-5

| Exposure                                                                                        | Band / Mode | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Drift [dB] | Frequency [MHz] | Channel # | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position | Spacing [mm] | Measured 1g SAR [W/kg]                          | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | Plimit [dBm] | Overall Plimit [dBm] | EPS Plimit [dBm] |
|-------------------------------------------------------------------------------------------------|-------------|----------------------|------|---------------|------------|------------------|-----------------|-----------|-------------------------|-----------------------|---------------|--------------|-------------------------------------------------|----------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|
| Head                                                                                            | GSM 1900    | GSM                  | A    | 0820M         | 1:8.3      | 0.10             | 1850.20         | 512       | 30.8                    | 29.62                 | Right Cheek   | 0            | 0.032                                           | 1.312                | 0.042                  | 0.541                  | 0.338                   | A4     | 35.3         | 35.3                 | 32.7             |
| Head                                                                                            | GSM 1900    | GSM                  | A    | 0820M         | 1:8.3      | 0.06             | 1850.20         | 512       | 30.8                    | 29.62                 | Right Tilt    | 0            | 0.012                                           | 1.312                | 0.016                  | 0.203                  | 0.127                   |        | 39.6         |                      |                  |
| Head                                                                                            | GSM 1900    | GSM                  | A    | 0820M         | 1:8.3      | 0.03             | 1850.20         | 512       | 30.8                    | 29.62                 | Left Cheek    | 0            | 0.020                                           | 1.312                | 0.026                  | 0.338                  | 0.211                   |        | 37.4         |                      |                  |
| Head                                                                                            | GSM 1900    | GSM                  | A    | 0820M         | 1:8.3      | -0.07            | 1850.20         | 512       | 30.8                    | 29.62                 | Left Tilt     | 0            | 0.026                                           | 1.312                | 0.034                  | 0.440                  | 0.275                   |        | 36.2         |                      |                  |
| 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 12-6

| Exposure                                                                                        | Band / Mode | Service / Modulation | Ant.            | Serial Number | Duty Cycle | Power Drift [dB] | Frequency [MHz] | Channel # | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position | Spacing [mm] | Measured 1g SAR [W/kg]                          | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | Plimit [dBm] | Overall Plimit [dBm] | EPS Plimit [dBm] |      |
|-------------------------------------------------------------------------------------------------|-------------|----------------------|-----------------|---------------|------------|------------------|-----------------|-----------|-------------------------|-----------------------|---------------|--------------|-------------------------------------------------|----------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|------|
| Body-worn/Hotspot                                                                               | GPRS 1900   | GPRS 4 Tx Slots      | A               | 0820M         | 1:2.076    | -0.05            | 1880.00         | 661       | 23.0                    | 21.83                 | Back          | 10           | 0.323                                           | 1.309                | 0.423                  | 0.423                  | 0.264                   | A5     | 23.5         | 20.2                 | 18.8             |      |
|                                                                                                 | GPRS 1900   | GPRS 4 Tx Slots      | A               | 0820M         | 1:2.076    | -0.07            | 1880.00         | 661       | 23.0                    | 21.83                 | Front         | 10           | 0.229                                           | 1.309                | 0.300                  | 0.300                  | 0.188                   |        | 25.0         |                      |                  |      |
|                                                                                                 | Hotspot     | GPRS 1900            | GPRS 4 Tx Slots | A             | 0820M      | 1:2.076          | 0.01            | 1850.20   | 512                     | 23.0                  | 21.29         | Bottom       | 10                                              | 0.416                | 1.483                  | 0.617                  | 0.617                   | 0.386  | 21.9         |                      |                  |      |
|                                                                                                 | Hotspot     | GPRS 1900            | GPRS 4 Tx Slots | A             | 0820M      | 1:2.076          | -0.06           | 1880.00   | 661                     | 23.0                  | 21.83         | Bottom       | 10                                              | 0.642                | 1.309                  | 0.840                  | 0.840                   | 0.525  |              |                      |                  | 20.5 |
|                                                                                                 | Hotspot     | GPRS 1900            | GPRS 4 Tx Slots | A             | 0820M      | 1:2.076          | 0.01            | 1909.80   | 810                     | 23.0                  | 21.75         | Bottom       | 10                                              | 0.675                | 1.334                  | 0.900                  | 0.900                   | 0.563  | A6           |                      |                  | 20.2 |
|                                                                                                 | Hotspot     | GPRS 1900            | GPRS 4 Tx Slots | A             | 0820M      | 1:2.076          | -0.05           | 1880.00   | 661                     | 23.0                  | 21.83         | Right        | 10                                              | 0.025                | 1.309                  | 0.033                  | 0.033                   | 0.021  |              |                      |                  | 34.6 |
|                                                                                                 | Hotspot     | GPRS 1900            | GPRS 4 Tx Slots | A             | 0820M      | 1:2.076          | -0.01           | 1880.00   | 661                     | 23.0                  | 21.83         | Left         | 10                                              | 0.027                | 1.309                  | 0.035                  | 0.035                   | 0.022  |              |                      |                  | 34.3 |
| 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 |                      |                        |                        |                         |        |              |                      |                  |      |

## 12.3 UMTS 850 Standalone SAR

Table 12-7

| Exposure                                 | Band / Mode | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Drift [dB] | Frequency [MHz] | Channel # | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position | Spacing [mm]                                    | Tune state | Measured 1g SAR [W/kg] | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | Plimit [dBm] | Overall Plimit [dBm] | EPS Plimit [dBm] |
|------------------------------------------|-------------|----------------------|------|---------------|------------|------------------|-----------------|-----------|-------------------------|-----------------------|---------------|-------------------------------------------------|------------|------------------------|----------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|
| Head                                     | UMTS 850    | RMC                  | A    | 0832M         | 1:1        | -0.18            | 846.60          | 4233      | 25.0                    | 24.61                 | Right Cheek   | 0                                               | 10         | 0.075                  | 1.094                | 0.082                  | 0.278                  | 0.174                   |        | 35.8         | 34.9                 | 30.3             |
| Head                                     | UMTS 850    | RMC                  | A    | 0832M         | 1:1        | 0.08             | 846.60          | 4233      | 25.0                    | 24.61                 | Right Tilt    | 0                                               | 10         | 0.047                  | 1.094                | 0.051                  | 0.174                  | 0.109                   |        | 37.8         |                      |                  |
| Head                                     | UMTS 850    | RMC                  | A    | 0832M         | 1:1        | 0.11             | 846.60          | 4233      | 25.0                    | 24.61                 | Left Cheek    | 0                                               | 10         | 0.092                  | 1.094                | 0.101                  | 0.341                  | 0.213                   |        | 34.9         |                      |                  |
| Head                                     | UMTS 850    | RMC                  | A    | 0832M         | 1:1        | 0.08             | 846.60          | 4233      | 25.0                    | 24.61                 | Left Tilt     | 0                                               | 10         | 0.044                  | 1.094                | 0.048                  | 0.163                  | 0.102                   |        | 38.1         |                      |                  |
| ANSI/IEEE C95.1 1992 - SAFETY LIMIT      |             |                      |      |               |            |                  |                 |           |                         |                       |               |                                                 |            |                        |                      |                        |                        |                         |        |              |                      |                  |
| Spatial Peak                             |             |                      |      |               |            |                  |                 |           |                         |                       |               |                                                 |            |                        |                      |                        |                        |                         |        |              |                      |                  |
| Uncontrolled Exposure/General Population |             |                      |      |               |            |                  |                 |           |                         |                       |               | Head<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |            |                        |                      |                        |                        |                         |        |              |                      |                  |

Table 12-8

| Exposure                                                                                        | Band / Mode | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Drift [dB] | Frequency [MHz] | Channel # | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position | Spacing [mm] | Measured 1g SAR [W/kg]                          | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | Plimit [dBm] | Overall Plimit [dBm] | EPS Plimit [dBm] |
|-------------------------------------------------------------------------------------------------|-------------|----------------------|------|---------------|------------|------------------|-----------------|-----------|-------------------------|-----------------------|---------------|--------------|-------------------------------------------------|----------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|
| Head                                                                                            | UMTS 850    | RMC                  | E    | 0832M         | 1:1        | 0.09             | 846.60          | 4233      | 21.5                    | 21.48                 | Right Cheek   | 0            | 0.651                                           | 1.005                | 0.654                  | 0.654                  | 0.409                   |        | 23.3         | 21.6                 | 20.5             |
| Head                                                                                            | UMTS 850    | RMC                  | E    | 0832M         | 1:1        | 0.02             | 846.60          | 4233      | 21.5                    | 21.48                 | Right Tilt    | 0            | 0.588                                           | 1.005                | 0.591                  | 0.591                  | 0.369                   |        | 23.7         |                      |                  |
| Head                                                                                            | UMTS 850    | RMC                  | E    | 0832M         | 1:1        | 0.04             | 826.40          | 4132      | 21.5                    | 21.00                 | Left Cheek    | 0            | 0.851                                           | 1.122                | 0.959                  | 0.959                  | 0.599                   |        | 21.6         |                      |                  |
| Head                                                                                            | UMTS 850    | RMC                  | E    | 0832M         | 1:1        | 0.04             | 836.60          | 4183      | 21.5                    | 21.33                 | Left Cheek    | 0            | 0.872                                           | 1.040                | 0.907                  | 0.907                  | 0.567                   | A7     | 21.9         |                      |                  |
| Head                                                                                            | UMTS 850    | RMC                  | E    | 0832M         | 1:1        | 0.06             | 846.60          | 4233      | 21.5                    | 21.48                 | Left Cheek    | 0            | 0.830                                           | 1.005                | 0.834                  | 0.834                  | 0.521                   |        | 22.2         |                      |                  |
| Head                                                                                            | UMTS 850    | RMC                  | E    | 0832M         | 1:1        | 0.06             | 846.60          | 4233      | 21.5                    | 21.48                 | Left Tilt     | 0            | 0.790                                           | 1.005                | 0.794                  | 0.794                  | 0.496                   |        | 22.5         |                      |                  |
| 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 12-9

| Exposure                                 | Band / Mode | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Drift [dB] | Frequency [MHz] | Channel # | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position | Spacing [mm] | Tune state           | Measured 1g SAR [W/kg] | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | Plimit [dBm] | Overall Plimit [dBm] | EPS Plimit [dBm] |
|------------------------------------------|-------------|----------------------|------|---------------|------------|------------------|-----------------|-----------|-------------------------|-----------------------|---------------|--------------|----------------------|------------------------|----------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|
| Body worn/Hotspot                        | UMTS 850    | RMC                  | A    | 0832M         | 1:1        | -0.02            | 846.60          | 4233      | 25.0                    | 24.61                 | Back          | 10           | 12                   | 0.227                  | 1.094                | 0.268                  | 0.801                  | 0.501                   |        | 29.4         | 29.4                 | 28.5             |
| Hotspot                                  | UMTS 850    | RMC                  | A    | 0832M         | 1:1        | 0.01             | 846.60          | 4233      | 25.0                    | 24.61                 | Front         | 10           | 12                   | 0.176                  | 1.094                | 0.193                  | 0.413                  | 0.269                   |        | 32.1         |                      |                  |
| Hotspot                                  | UMTS 850    | RMC                  | A    | 0832M         | 1:1        | 0.02             | 846.60          | 4233      | 25.0                    | 24.61                 | Bottom        | 10           | 11                   | 0.116                  | 1.094                | 0.127                  | 0.284                  | 0.178                   |        | 33.9         |                      |                  |
| Hotspot                                  | UMTS 850    | RMC                  | A    | 0832M         | 1:1        | -0.03            | 846.60          | 4233      | 25.0                    | 24.61                 | Right         | 10           | 11                   | 0.049                  | 1.094                | 0.054                  | 0.120                  | 0.075                   |        | 37.7         |                      |                  |
| Hotspot                                  | UMTS 850    | RMC                  | A    | 0832M         | 1:1        | 0.00             | 846.60          | 4233      | 25.0                    | 24.61                 | Left          | 10           | 11                   | 0.123                  | 1.094                | 0.135                  | 0.301                  | 0.188                   |        | 33.7         |                      |                  |
| 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 12-10

| Exposure                                                                                        | Band / Mode | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Drift [dB] | Frequency [MHz] | Channel # | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position | Spacing [mm] | Measured 1g SAR [W/kg]                          | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | Plimit [dBm] | Overall Plimit [dBm] | EPS Plimit [dBm] |
|-------------------------------------------------------------------------------------------------|-------------|----------------------|------|---------------|------------|------------------|-----------------|-----------|-------------------------|-----------------------|---------------|--------------|-------------------------------------------------|----------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|
| Body-worn/Hotspot                                                                               | UMTS 850    | RMC                  | E    | 0832M         | 1:1        | 0.01             | 846.60          | 4233      | 25.0                    | 24.78                 | Back          | 10           | 0.473                                           | 1.052                | 0.498                  | 0.788                  | 0.493                   | A8     | 28.0         | 27.0                 | 27.0             |
| Hotspot                                                                                         | UMTS 850    | RMC                  | E    | 0832M         | 1:1        | 0.00             | 846.60          | 4233      | 25.0                    | 24.78                 | Front         | 10           | 0.477                                           | 1.052                | 0.502                  | 0.795                  | 0.497                   |        | 27.8         |                      |                  |
| Hotspot                                                                                         | UMTS 850    | RMC                  | E    | 0832M         | 1:1        | -0.02            | 846.60          | 4233      | 25.0                    | 24.78                 | Top           | 10           | 0.589                                           | 1.052                | 0.620                  | 0.982                  | 0.614                   | A9     | 27.0         |                      |                  |
| Hotspot                                                                                         | UMTS 850    | RMC                  | E    | 0832M         | 1:1        | 0.00             | 846.60          | 4233      | 25.0                    | 24.78                 | Right         | 10           | 0.346                                           | 1.052                | 0.364                  | 0.577                  | 0.361                   |        | 29.3         |                      |                  |
| 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: A3LSMS938B                          | RF EXPOSURE PART 1 TEST REPORT |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Approved by:<br>Technical Manager |  |  |  |  |  |
| Document S/N:<br>1M2408260069-01.A3L (Rev1) | DUT Type:<br>Portable Handset  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Page 91 of 131                    |  |  |  |  |  |

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## 12.4 UMTS 1750 Standalone SAR

Table 12-11

| Exposure                                                                                        | Band / Mode | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Drift [dB] | Frequency [MHz] | Channel # | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position | Spacing [mm]                                    | Tune state | Measured 1g SAR [W/kg] | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | Plimit [dBm] | Overall Plimit [dBm] | EPS Plimit [dBm] |
|-------------------------------------------------------------------------------------------------|-------------|----------------------|------|---------------|------------|------------------|-----------------|-----------|-------------------------|-----------------------|---------------|-------------------------------------------------|------------|------------------------|----------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|
| Head                                                                                            | UMTS 1750   | RMC                  | A    | 0820M         | 1-1        | -0.00            | 1752.60         | 1513      | 24.0                    | 22.81                 | Right Cheek   | 0                                               | 99         | 0.102                  | 1.315                | 0.144                  | 0.618                  | 0.363                   | A10    | 32.7         | 32.7                 | 30.6             |
| Head                                                                                            | UMTS 1750   | RMC                  | A    | 0820M         | 1-1        | -0.12            | 1752.60         | 1513      | 24.0                    | 22.81                 | Right Tilt    | 0                                               | 99         | 0.045                  | 1.315                | 0.059                  | 0.271                  | 0.169                   |        | 36.2         |                      |                  |
| Head                                                                                            | UMTS 1750   | RMC                  | A    | 0820M         | 1-1        | -0.01            | 1752.60         | 1513      | 24.0                    | 22.81                 | Left Cheek    | 0                                               | 99         | 0.056                  | 1.315                | 0.074                  | 0.337                  | 0.211                   |        | 35.3         |                      |                  |
| Head                                                                                            | UMTS 1750   | RMC                  | A    | 0820M         | 1-1        | -0.10            | 1752.60         | 1513      | 24.0                    | 22.81                 | Left Tilt     | 0                                               | 99         | 0.044                  | 1.315                | 0.058                  | 0.265                  | 0.166                   |        | 36.3         |                      |                  |
| 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 12-12

| Exposure                                                                                        | Band / Mode | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Drift [dB] | Frequency [MHz] | Channel # | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position | Spacing [mm]                                    | Tune state | Measured 1g SAR [W/kg] | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | Plimit [dBm] | Overall Plimit [dBm] | EPS Plimit [dBm] |
|-------------------------------------------------------------------------------------------------|-------------|----------------------|------|---------------|------------|------------------|-----------------|-----------|-------------------------|-----------------------|---------------|-------------------------------------------------|------------|------------------------|----------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|
| Body-worn/Hotspot                                                                               | UMTS 1750   | RMC                  | A    | 0820M         | 1-1        | 0.01             | 1752.60         | 1513      | 20.0                    | 19.58                 | Back          | 10                                              | 99         | 0.625                  | 1.102                | 0.689                  | 0.689                  | 0.431                   | A11    | 21.6         |                      |                  |
| Hotspot                                                                                         | UMTS 1750   | RMC                  | A    | 0820M         | 1-1        | -0.01            | 1752.60         | 1513      | 20.0                    | 19.58                 | Front         | 10                                              | 99         | 0.483                  | 1.102                | 0.532                  | 0.532                  | 0.333                   |        | 22.7         |                      |                  |
| Hotspot                                                                                         | UMTS 1750   | RMC                  | A    | 0820M         | 1-1        | 0.00             | 1712.40         | 1312      | 20.0                    | 19.46                 | Bottom        | 10                                              | 107        | 0.801                  | 1.132                | 0.907                  | 0.907                  | 0.567                   |        | 20.4         |                      |                  |
| Hotspot                                                                                         | UMTS 1750   | RMC                  | A    | 0820M         | 1-1        | -0.02            | 1732.40         | 1412      | 20.0                    | 19.50                 | Bottom        | 10                                              | 107        | 0.843                  | 1.122                | 0.946                  | 0.946                  | 0.591                   |        | 20.2         |                      |                  |
| Hotspot                                                                                         | UMTS 1750   | RMC                  | A    | 0820M         | 1-1        | 0.01             | 1752.60         | 1513      | 20.0                    | 19.58                 | Bottom        | 10                                              | 27         | 0.917                  | 1.102                | 1.011                  | 1.011                  | 0.632                   | A12    | 19.9         |                      |                  |
| Hotspot                                                                                         | UMTS 1750   | RMC                  | A    | 0820M         | 1-1        | -0.08            | 1752.60         | 1513      | 20.0                    | 19.58                 | Bottom        | 10                                              | 27         | 0.784                  | 1.102                | 1.003                  | 1.003                  | 0.626                   |        | 19.9         |                      |                  |
| Hotspot                                                                                         | UMTS 1750   | RMC                  | A    | 0820M         | 1-1        | 0.00             | 1752.60         | 1513      | 20.0                    | 19.58                 | Right         | 10                                              | 99         | 0.076                  | 1.102                | 0.084                  | 0.084                  | 0.053                   |        | 30.7         |                      |                  |
| Hotspot                                                                                         | UMTS 1750   | RMC                  | A    | 0820M         | 1-1        | 0.01             | 1752.60         | 1513      | 20.0                    | 19.58                 | Left          | 10                                              | 99         | 0.074                  | 1.102                | 0.082                  | 0.082                  | 0.051                   |        | 30.8         |                      |                  |
| 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

## 12.5 UMTS 1900 Standalone SAR

Table 12-13

| Exposure                                                                                        | Band / Mode | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Drift [dB] | Frequency [MHz] | Channel # | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position | Spacing [mm]                                    | Tune state | Measured 1g SAR [W/kg] | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | Plimit [dBm] | Overall Plimit [dBm] | EPS Plimit [dBm] |
|-------------------------------------------------------------------------------------------------|-------------|----------------------|------|---------------|------------|------------------|-----------------|-----------|-------------------------|-----------------------|---------------|-------------------------------------------------|------------|------------------------|----------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|
| Head                                                                                            | UMTS 1900   | RMC                  | A    | 0820M         | 1-1        | 0.06             | 1852.40         | 9262      | 24.0                    | 22.69                 | Right Cheek   | 0                                               | 108        | 0.085                  | 1.352                | 0.115                  | 0.479                  | 0.299                   | A13    | 33.3         |                      |                  |
| Head                                                                                            | UMTS 1900   | RMC                  | A    | 0820M         | 1-1        | -0.15            | 1852.40         | 9262      | 24.0                    | 22.69                 | Right Tilt    | 0                                               | 109        | 0.070                  | 1.352                | 0.095                  | 0.395                  | 0.247                   |        | 34.2         |                      |                  |
| Head                                                                                            | UMTS 1900   | RMC                  | A    | 0820M         | 1-1        | -0.20            | 1852.40         | 9262      | 24.0                    | 22.69                 | Left Cheek    | 0                                               | 109        | 0.060                  | 1.352                | 0.081                  | 0.338                  | 0.211                   |        | 34.9         |                      |                  |
| Head                                                                                            | UMTS 1900   | RMC                  | A    | 0820M         | 1-1        | 0.02             | 1852.40         | 9262      | 24.0                    | 22.69                 | Left Tilt     | 0                                               | 109        | 0.064                  | 1.352                | 0.087                  | 0.361                  | 0.226                   |        | 34.6         |                      |                  |
| 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 12-14

| Exposure                                                                                        | Band / Mode | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Drift [dB] | Frequency [MHz] | Channel # | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position | Spacing [mm]                                    | Tune state | Measured 1g SAR [W/kg] | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | Plimit [dBm] | Overall Plimit [dBm] | EPS Plimit [dBm] |
|-------------------------------------------------------------------------------------------------|-------------|----------------------|------|---------------|------------|------------------|-----------------|-----------|-------------------------|-----------------------|---------------|-------------------------------------------------|------------|------------------------|----------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|
| Body-worn/Hotspot                                                                               | UMTS 1900   | RMC                  | A    | 0820M         | 1-1        | 0.01             | 1852.40         | 9262      | 19.0                    | 18.38                 | Back          | 10                                              | 108        | 0.463                  | 1.153                | 0.532                  | 0.532                  | 0.333                   | A14    | 21.7         |                      |                  |
| Hotspot                                                                                         | UMTS 1900   | RMC                  | A    | 0820M         | 1-1        | -0.01            | 1852.40         | 9262      | 19.0                    | 18.38                 | Front         | 10                                              | 108        | 0.363                  | 1.153                | 0.416                  | 0.416                  | 0.260                   |        | 22.8         |                      |                  |
| Hotspot                                                                                         | UMTS 1900   | RMC                  | A    | 0820M         | 1-1        | -0.02            | 1852.40         | 9262      | 19.0                    | 18.38                 | Bottom        | 10                                              | 99         | 0.883                  | 1.153                | 1.018                  | 1.018                  | 0.636                   |        | 18.9         |                      |                  |
| Hotspot                                                                                         | UMTS 1900   | RMC                  | A    | 0820M         | 1-1        | 0.01             | 1880.00         | 9400      | 19.0                    | 18.21                 | Bottom        | 10                                              | 108        | 0.802                  | 1.199                | 0.962                  | 0.962                  | 0.601                   |        | 19.1         |                      |                  |
| Hotspot                                                                                         | UMTS 1900   | RMC                  | A    | 0820M         | 1-1        | 0.01             | 1807.60         | 9538      | 19.0                    | 18.24                 | Bottom        | 10                                              | 99         | 0.987                  | 1.191                | 1.176                  | 1.176                  | 0.795                   | A15    | 18.2         |                      |                  |
| Hotspot                                                                                         | UMTS 1900   | RMC                  | A    | 0820M         | 1-1        | 0.10             | 1852.40         | 9262      | 19.0                    | 18.38                 | Right         | 10                                              | 108        | 0.043                  | 1.153                | 0.050                  | 0.050                  | 0.031                   |        | 32.0         |                      |                  |
| Hotspot                                                                                         | UMTS 1900   | RMC                  | A    | 0820M         | 1-1        | -0.01            | 1852.40         | 9262      | 19.0                    | 18.38                 | Left          | 10                                              | 109        | 0.053                  | 1.153                | 0.061                  | 0.061                  | 0.038                   |        | 31.1         |                      |                  |
| 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: A3LSMS938B                          | RF EXPOSURE PART 1 TEST REPORT | Approved by:<br>Technical Manager |
| Document S/N:<br>1M2408260069-01.A3L (Rev1) | DUT Type:<br>Portable Handset  | Page 92 of 131                    |

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## 12.6 LTE Band 12 Standalone SAR

Table 12-15

| Exposure                                 | Band / Mode | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Drift [dB] | Frequency [MHz] | Channel # | MPR [dB] | Max Allowed Power [dBm] | Conducted Power [dBm] | RB Size                                         | RB Offset | Test Position | Spacing [mm] | Tune state | Measured 1g SAR [W/kg] | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | PLimit [dBm] | Overall PLimit [dBm] | RFS PLimit [dBm] |
|------------------------------------------|-------------|-----------------|----------------------|------|---------------|------------|------------------|-----------------|-----------|----------|-------------------------|-----------------------|-------------------------------------------------|-----------|---------------|--------------|------------|------------------------|----------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|
| Head                                     | LTE Band 12 | 10              | QPSK                 | A    | 0813M         | 1:1        | -0.17            | 707.50          | 23095     | 0.0      | 25.3                    | 24.27                 | 1                                               | 25        | Right Cheek   | 0            | 63         | 0.125                  | 1.268                | 0.159                  | 0.311                  | 0.207                   |        | 33.3         |                      |                  |
| Head                                     | LTE Band 12 | 10              | QPSK                 | A    | 0813M         | 1:1        | -0.05            | 707.50          | 23095     | 1.0      | 24.9                    | 23.16                 | 25                                              | 12        | Right Cheek   | 0            | 63         | 0.097                  | 1.300                | 0.126                  | 0.312                  | 0.208                   |        | 33.2         |                      |                  |
| Head                                     | LTE Band 12 | 10              | QPSK                 | A    | 0813M         | 1:1        | -0.03            | 707.50          | 23095     | 0.0      | 25.3                    | 24.27                 | 1                                               | 25        | Right Tilt    | 0            | 63         | 0.063                  | 1.268                | 0.080                  | 0.167                  | 0.104                   |        | 36.2         |                      |                  |
| Head                                     | LTE Band 12 | 10              | QPSK                 | A    | 0813M         | 1:1        | -0.03            | 707.50          | 23095     | 1.0      | 24.3                    | 23.16                 | 25                                              | 12        | Right Tilt    | 0            | 63         | 0.050                  | 1.300                | 0.065                  | 0.171                  | 0.107                   |        | 36.1         |                      |                  |
| Head                                     | LTE Band 12 | 10              | QPSK                 | A    | 0813M         | 1:1        | 0.02             | 707.50          | 23095     | 0.0      | 25.3                    | 24.27                 | 1                                               | 25        | Left Cheek    | 0            | 63         | 0.136                  | 1.268                | 0.160                  | 0.314                  | 0.209                   |        | 33.2         |                      |                  |
| Head                                     | LTE Band 12 | 10              | QPSK                 | A    | 0813M         | 1:1        | -0.03            | 707.50          | 23095     | 1.0      | 24.3                    | 23.16                 | 25                                              | 12        | Left Cheek    | 0            | 63         | 0.099                  | 1.300                | 0.120                  | 0.319                  | 0.212                   |        | 33.2         |                      |                  |
| Head                                     | LTE Band 12 | 10              | QPSK                 | A    | 0813M         | 1:1        | 0.14             | 707.50          | 23095     | 0.0      | 25.3                    | 24.27                 | 1                                               | 25        | Left Tilt     | 0            | 63         | 0.075                  | 1.268                | 0.099                  | 0.199                  | 0.124                   |        | 35.5         |                      |                  |
| Head                                     | LTE Band 12 | 10              | QPSK                 | A    | 0813M         | 1:1        | -0.08            | 707.50          | 23095     | 1.0      | 24.3                    | 23.16                 | 25                                              | 12        | Left Tilt     | 0            | 63         | 0.054                  | 1.300                | 0.070                  | 0.185                  | 0.116                   |        | 35.8         |                      |                  |
| ANSI/IEEE C95.1 1992 - SAFETY LIMIT      |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |                                                 |           |               |              |            |                        |                      |                        |                        |                         |        |              |                      |                  |
| Spatial Peak                             |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |                                                 |           |               |              |            |                        |                      |                        |                        |                         |        |              |                      |                  |
| Uncontrolled Exposure/General Population |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       | Head<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |           |               |              |            |                        |                      |                        |                        |                         |        |              |                      |                  |

Table 12-16

| Exposure                                 | Band / Mode | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Drift [dB] | Frequency [MHz] | Channel # | MPR [dB] | Max Allowed Power [dBm] | Conducted Power [dBm] | RB Size | RB Offset | Test Position | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | PLimit [dBm] | Overall PLimit [dBm] | RFS PLimit [dBm] |
|------------------------------------------|-------------|-----------------|----------------------|------|---------------|------------|------------------|-----------------|-----------|----------|-------------------------|-----------------------|---------|-----------|---------------|--------------|------------------------|----------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|
| Head                                     | LTE Band 12 | 10              | QPSK                 | E    | 0813M         | 1:1        | -0.04            | 707.50          | 23095     | 0.0      | 22.5                    | 21.45                 | 1       | 49        | Right Cheek   | 0            | 0.443                  | 1.274                | 0.613                  | 0.613                  | 0.383                   |        | 24.6         |                      |                  |
| Head                                     | LTE Band 12 | 10              | QPSK                 | E    | 0813M         | 1:1        | -0.05            | 707.50          | 23095     | 0.0      | 22.5                    | 21.51                 | 25      | 12        | Right Cheek   | 0            | 0.443                  | 1.256                | 0.556                  | 0.556                  | 0.348                   |        | 25.0         |                      |                  |
| Head                                     | LTE Band 12 | 10              | QPSK                 | E    | 0813M         | 1:1        | 0.14             | 707.50          | 23095     | 0.0      | 22.5                    | 21.45                 | 1       | 49        | Right Tilt    | 0            | 0.416                  | 1.274                | 0.530                  | 0.530                  | 0.331                   |        | 25.2         |                      |                  |
| Head                                     | LTE Band 12 | 10              | QPSK                 | E    | 0813M         | 1:1        | -0.02            | 707.50          | 23095     | 0.0      | 22.5                    | 21.51                 | 25      | 12        | Right Tilt    | 0            | 0.405                  | 1.256                | 0.490                  | 0.490                  | 0.305                   |        | 25.3         |                      |                  |
| Head                                     | LTE Band 12 | 10              | QPSK                 | E    | 0813M         | 1:1        | -0.01            | 707.50          | 23095     | 0.0      | 22.5                    | 21.45                 | 1       | 49        | Left Cheek    | 0            | 0.529                  | 1.274                | 1.184                  | 1.184                  | 0.740                   | A16    | 21.7         |                      | 21.5             |
| Head                                     | LTE Band 12 | 10              | QPSK                 | E    | 0813M         | 1:1        | -0.02            | 707.50          | 23095     | 0.0      | 22.5                    | 21.51                 | 25      | 12        | Left Cheek    | 0            | 0.525                  | 1.256                | 1.036                  | 1.036                  | 0.648                   |        | 22.8         |                      |                  |
| Head                                     | LTE Band 12 | 10              | QPSK                 | E    | 0813M         | 1:1        | -0.03            | 707.50          | 23095     | 0.0      | 22.5                    | 21.45                 | 1       | 49        | Left Cheek    | 0            | 0.500                  | 1.279                | 1.023                  | 1.023                  | 0.639                   |        | 22.3         |                      |                  |
| Head                                     | LTE Band 12 | 10              | QPSK                 | E    | 0813M         | 1:1        | -0.05            | 707.50          | 23095     | 0.0      | 22.5                    | 21.45                 | 1       | 49        | Left Tilt     | 0            | 0.580                  | 1.274                | 0.739                  | 0.739                  | 0.462                   |        | 23.8         |                      |                  |
| Head                                     | LTE Band 12 | 10              | QPSK                 | E    | 0813M         | 1:1        | -0.01            | 707.50          | 23095     | 0.0      | 22.5                    | 21.51                 | 25      | 12        | Left Tilt     | 0            | 0.517                  | 1.256                | 0.649                  | 0.649                  | 0.406                   |        | 24.3         |                      |                  |
| ANSI/IEEE C95.1 1992 - SAFETY LIMIT      |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |                        |                      |                        |                        |                         |        |              |                      |                  |
| Spatial Peak                             |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |                        |                      |                        |                        |                         |        |              |                      |                  |
| Uncontrolled Exposure/General Population |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |                        |                      |                        |                        |                         |        |              |                      |                  |
| Head                                     |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |                        |                      |                        |                        |                         |        |              |                      |                  |
| 1.6 W/kg (mW/g)                          |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |                        |                      |                        |                        |                         |        |              |                      |                  |
| averaged over 1 gram                     |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |                        |                      |                        |                        |                         |        |              |                      |                  |

Table 12-17

| Exposure                                 | Band / Mode | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Drift [dB] | Frequency [MHz] | Channel # | MPR [dB] | Max Allowed Power [dBm] | Conducted Power [dBm] | RB Size | RB Offset | Test Position | Spacing [mm] | Tune state | Measured 1g SAR [W/kg] | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | PLimit [dBm] | Overall PLimit [dBm] | RFS PLimit [dBm] |
|------------------------------------------|-------------|-----------------|----------------------|------|---------------|------------|------------------|-----------------|-----------|----------|-------------------------|-----------------------|---------|-----------|---------------|--------------|------------|------------------------|----------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|
| Body worn/hotspot                        | LTE Band 12 | 10              | QPSK                 | A    | 0813M         | 1:1        | -0.06            | 707.50          | 23095     | 0.0      | 25.3                    | 24.27                 | 1       | 25        | Back          | 10           | 63         | 0.220                  | 1.268                | 0.279                  | 0.463                  | 0.289                   |        | 30.8         |                      |                  |
| Body worn/hotspot                        | LTE Band 12 | 10              | QPSK                 | A    | 0813M         | 1:1        | 0.01             | 707.50          | 23095     | 1.0      | 24.3                    | 23.16                 | 25      | 12        | Back          | 10           | 63         | 0.150                  | 1.300                | 0.221                  | 0.462                  | 0.289                   |        | 30.8         |                      |                  |
| Hotspot                                  | LTE Band 12 | 10              | QPSK                 | A    | 0813M         | 1:1        | 0.02             | 707.50          | 23095     | 0.0      | 25.3                    | 24.27                 | 1       | 25        | Front         | 10           | 63         | 0.181                  | 1.268                | 0.230                  | 0.381                  | 0.238                   |        | 31.6         |                      |                  |
| Hotspot                                  | LTE Band 12 | 10              | QPSK                 | A    | 0813M         | 1:1        | -0.02            | 707.50          | 23095     | 1.0      | 24.3                    | 23.16                 | 25      | 12        | Front         | 10           | 63         | 0.146                  | 1.300                | 0.182                  | 0.380                  | 0.238                   |        | 31.6         |                      |                  |
| Hotspot                                  | LTE Band 12 | 10              | QPSK                 | A    | 0813M         | 1:1        | 0.03             | 707.50          | 23095     | 0.0      | 25.3                    | 24.27                 | 1       | 25        | Bottom        | 10           | 63         | 0.047                  | 1.268                | 0.060                  | 0.099                  | 0.062                   |        | 37.5         | 30.5                 | 27.5             |
| Hotspot                                  | LTE Band 12 | 10              | QPSK                 | A    | 0813M         | 1:1        | 0.05             | 707.50          | 23095     | 1.0      | 24.3                    | 23.16                 | 25      | 12        | Bottom        | 10           | 63         | 0.098                  | 1.300                | 0.047                  | 0.098                  | 0.061                   |        | 37.5         |                      |                  |
| Hotspot                                  | LTE Band 12 | 10              | QPSK                 | A    | 0813M         | 1:1        | 0.04             | 707.50          | 23095     | 0.0      | 25.3                    | 24.27                 | 1       | 25        | Right         | 10           | 63         | 0.226                  | 1.268                | 0.288                  | 0.484                  | 0.300                   |        | 30.5         |                      |                  |
| Hotspot                                  | LTE Band 12 | 10              | QPSK                 | A    | 0813M         | 1:1        | 0.07             | 707.50          | 23095     | 1.0      | 24.3                    | 23.16                 | 25      | 12        | Right         | 10           | 63         | 0.184                  | 1.300                | 0.239                  | 0.500                  | 0.313                   |        | 30.5         |                      |                  |
| Hotspot                                  | LTE Band 12 | 10              | QPSK                 | A    | 0813M         | 1:1        | -0.01            | 707.50          | 23095     | 0.0      | 25.3                    | 24.27                 | 1       | 25        | Left          | 10           | 63         | 0.225                  | 1.268                | 0.285                  | 0.473                  | 0.296                   |        | 30.7         |                      |                  |
| Hotspot                                  | LTE Band 12 | 10              | QPSK                 | A    | 0813M         | 1:1        | -0.01            | 707.50          | 23095     | 1.0      | 24.3                    | 23.16                 | 25      | 12        | Left          | 10           | 63         | 0.171                  | 1.300                | 0.225                  | 0.470                  | 0.284                   |        | 30.7         |                      |                  |
| ANSI/IEEE C95.1 1992 - SAFETY LIMIT      |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |            |                        |                      |                        |                        |                         |        |              |                      |                  |
| Spatial Peak                             |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |            |                        |                      |                        |                        |                         |        |              |                      |                  |
| Uncontrolled Exposure/General Population |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |            |                        |                      |                        |                        |                         |        |              |                      |                  |
| Body                                     |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |            |                        |                      |                        |                        |                         |        |              |                      |                  |
| 1.6 W/kg (mW/g)                          |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |            |                        |                      |                        |                        |                         |        |              |                      |                  |
| averaged over 1 gram                     |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |            |                        |                      |                        |                        |                         |        |              |                      |                  |

Table 12-18

| Exposure                              | Band / Mode | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Drift (dB) | Frequency [MHz] | Channel # | MPR (dB) | Max Allowed Power (dBm) | Conducted Power (dBm) | RB Size | RB Offset | Test Position | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (SAR) | Plot # | PLimit [dBm] | Overall PLimit [dBm] | RFS PLimit [dBm] |
|---------------------------------------|-------------|-----------------|----------------------|------|---------------|------------|------------------|-----------------|-----------|----------|-------------------------|-----------------------|---------|-----------|---------------|--------------|------------------------|----------------------|------------------------|------------------------|----------------------|--------|--------------|----------------------|------------------|
| Body worn/Hotspot                     | LTE Band 12 | 10              | QPSK                 | E    | 0813M         | 1:1        | -0.09            | 707.50          | 23095     | 0.0      | 25.3                    | 24.15                 | 1       | 25        | Back          | 10           | 0.275                  | 1.303                | 0.358                  | 0.421                  | 0.263                | A17    | 29.7         |                      |                  |
| Body worn/Hotspot                     | LTE Band 12 | 10              | QPSK                 | E    | 0813M         | 1:1        | -0.02            | 707.50          | 23095     | 1.0      | 24.3                    | 23.29                 | 25      | 25        | Back          | 10           | 0.221                  | 1.262                | 0.279                  | 0.412                  | 0.258                |        | 29.8         |                      |                  |
| Hotspot                               | LTE Band 12 | 10              | QPSK                 | E    | 0813M         | 1:1        | 0.04             | 707.50          | 23095     | 0.0      | 25.3                    | 24.15                 | 1       | 25        | Front         | 10           | 0.266                  | 1.303                | 0.386                  | 0.453                  | 0.283                |        | 29.4         |                      |                  |
| Hotspot                               | LTE Band 12 | 10              | QPSK                 | E    | 0813M         | 1:1        | 0.01             | 707.50          | 23095     | 1.0      | 24.3                    | 23.29                 | 25      | 25        | Front         | 10           | 0.165                  | 1.262                | 0.314                  | 0.404                  | 0.309                |        | 29.0         |                      |                  |
| Hotspot                               | LTE Band 12 | 10              | QPSK                 | E    | 0813M         | 1:1        | 0.10             | 707.50          | 23095     | 0.0      | 25.3                    | 24.15                 | 1       | 25        | Top           | 10           | 0.112                  | 1.303                | 0.407                  | 0.478                  | 0.279                |        | 29.2         | 28.4                 |                  |
| Hotspot                               | LTE Band 12 | 10              | QPSK                 | E    | 0813M         | 1:1        | 0.08             | 707.50          | 23095     | 1.0      | 24.3                    | 23.29                 | 25      | 25        | Top           | 10           | 0.261                  | 1.262                | 0.329                  | 0.487                  | 0.304                |        | 29.1         |                      |                  |
| Hotspot                               | LTE Band 12 | 10              | QPSK                 | E    | 0824M         | 1:1        | -0.02            | 707.50          | 23095     | 0.0      | 25.3                    | 24.15                 | 1       | 25        | Right         | 10           | 0.161                  | 1.303                | 0.470                  | 0.553                  | 0.346                | A18    | 28.5         |                      |                  |
| Hotspot                               | LTE Band 12 | 10              | QPSK                 | E    | 0824M         | 1:1        | 0.04             | 707.50          | 23095     | 1.0      | 24.3                    | 23.29                 | 25      | 25        | Right         | 10           | 0.108                  | 1.262                | 0.389                  | 0.575                  | 0.319                |        | 28.4         |                      |                  |
| UNIQUELY CRL 1 1992 - SAFETY LIMIT    |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |                        |                      |                        |                        |                      |        |              |                      |                  |
| Spatial Peak                          |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              | 1.6 W/kg (mW/g)        |                      |                        |                        |                      |        |              |                      |                  |
| Announced Exposure General Population |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              | averaged over 16 mm    |                      |                        |                        |                      |        |              |                      |                  |

## 12.7 LTE Band 13 Standalone SAR

### Table 12-19

[illegible]

### Table 12-20

| Exposure                                   | Band / Mode | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power [dBm] | Frequency [MHz] | Channel # | MPR [dB] | Max Allowed Power [dBm] | Conducted Power [dBm] | RB Size | RB Offset | Test Position | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Rate (1g SAR) | Plus ± | Limit [dBm] | Overall Limit [dBm] | EPS limit [dBm] |
|--------------------------------------------|-------------|-----------------|----------------------|------|---------------|------------|-------------|-----------------|-----------|----------|-------------------------|-----------------------|---------|-----------|---------------|--------------|------------------------|----------------------|------------------------|------------------------|------------------------|--------|-------------|---------------------|-----------------|
| Head                                       | LTE Band 13 | 10              | QPSK                 | E    | 0813M1        | 1:1        | -0.33       | 782.00          | 23230     | 0.0      | 22.5                    | 22.05                 | 1       | 25        | Right Cheek   | 0            | 0.673                  | 1.109                | 0.746                  | 0.746                  | 0.466                  |        | 23.7        |                     |                 |
| Head                                       | LTE Band 13 | 10              | QPSK                 | E    | 0813M1        | 1:1        | -0.33       | 782.00          | 23230     | 0.0      | 22.5                    | 21.88                 | 1       | 25        | Right Cheek   | 0            | 0.667                  | 1.161                | 0.747                  | 0.747                  | 0.461                  |        | 23.7        |                     |                 |
| Head                                       | LTE Band 13 | 10              | QPSK                 | E    | 0813M1        | 1:1        | -0.02       | 782.00          | 23230     | 0.0      | 22.5                    | 21.85                 | 1       | 25        | Right Thit    | 0            | 0.669                  | 1.109                | 0.669                  | 0.669                  | 0.418                  |        | 24.2        |                     |                 |
| Head                                       | LTE Band 13 | 10              | QPSK                 | E    | 0813M1        | 1:1        | 0.01        | 782.00          | 23230     | 0.0      | 22.5                    | 21.85                 | 25      | 25        | Right Thit    | 0            | 0.590                  | 1.161                | 0.685                  | 0.685                  | 0.428                  |        | 24.1        |                     |                 |
| Head                                       | LTE Band 13 | 10              | QPSK                 | E    | 0813M1        | 1:1        | -0.33       | 782.00          | 23230     | 0.0      | 22.5                    | 21.69                 | 1       | 25        | Right Thit    | 0            | 0.662                  | 1.109                | 0.642                  | 0.642                  | 0.453                  |        | 24.3        |                     |                 |
| Head                                       | LTE Band 13 | 10              | QPSK                 | E    | 0813M1        | 1:1        | -0.01       | 782.00          | 23230     | 0.0      | 22.5                    | 21.85                 | 1       | 25        | Left Cheek    | 0            | 0.590                  | 1.109                | 0.609                  | 0.609                  | 0.568                  |        | 22.9        | 22.2                |                 |
| Head                                       | LTE Band 13 | 10              | QPSK                 | E    | 0813M1        | 1:1        | 0.02        | 782.00          | 23230     | 0.0      | 22.5                    | 21.85                 | 25      | 25        | Left Cheek    | 0            | 0.897                  | 1.161                | 1.041                  | 1.041                  | 0.651                  |        | 22.3        |                     |                 |
| Head                                       | LTE Band 13 | 10              | QPSK                 | E    | 0813M1        | 1:1        | -0.08       | 782.00          | 23230     | 0.0      | 22.5                    | 21.83                 | 50      | 25        | Left Thit     | 0            | 0.666                  | 1.109                | 0.666                  | 0.666                  | 0.466                  |        | 23.7        |                     |                 |
| Head                                       | LTE Band 13 | 10              | QPSK                 | E    | 0813M1        | 1:1        | 0.10        | 782.00          | 23230     | 0.0      | 22.5                    | 21.85                 | 1       | 25        | Left Thit     | 0            | 0.784                  | 1.109                | 0.847                  | 0.847                  | 0.529                  |        | 23.2        |                     |                 |
| Head                                       | LTE Band 13 | 10              | QPSK                 | E    | 0813M1        | 1:1        | 0.04        | 782.00          | 23230     | 0.0      | 22.5                    | 21.85                 | 25      | 25        | Left Thit     | 0            | 0.705                  | 1.161                | 0.911                  | 0.911                  | 0.569                  |        | 22.9        |                     |                 |
| Head                                       | LTE Band 13 | 10              | QPSK                 | E    | 0813M1        | 1:1        | 0.05        | 782.00          | 23230     | 0.0      | 22.5                    | 21.83                 | 50      | 0         | Left Thit     | 0            | 0.792                  | 1.167                | 0.924                  | 0.924                  | 0.578                  |        | 22.8        |                     |                 |
| ANCC/IEEE C95.1 1992 - SAFETY LIMIT        |             |                 |                      |      |               |            |             |                 |           |          |                         |                       |         |           |               |              | Head                   |                      |                        |                        |                        |        |             |                     |                 |
| Uncontrolled Exposure (General Population) |             |                 |                      |      |               |            |             |                 |           |          |                         |                       |         |           |               |              | 1.6 W/kg (mW/g)        |                      |                        |                        |                        |        |             |                     |                 |
| Controlled Exposure (Occupational)         |             |                 |                      |      |               |            |             |                 |           |          |                         |                       |         |           |               |              | 2 W/kg (mW/g)          |                      |                        |                        |                        |        |             |                     |                 |

Note: Blue entry represents variability measurement

### Table 12-21

| Exposure                                    | Band / Mode | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power DfB [dBm] | Frequency [kHz] | Channel # | MPR [dB] | Max Allowed Power [dBm] | Conducted Power [dBm] | RIS Size | RIS Offset | Test Position | Spacing [mm] | Tune state | Measured Iq SAEW [Vrms] | Power Scaling Factor | Reported Iq SAEW [Vrms] | Adjusted Iq SAEW [Vrms] | Exposure Rate [μA-S/m²] | Pict # | Film Index   | Overall FilmDB [dBm] | SFS Pict Index |
|---------------------------------------------|-------------|-----------------|----------------------|------|---------------|------------|-----------------|-----------------|-----------|----------|-------------------------|-----------------------|----------|------------|---------------|--------------|------------|-------------------------|----------------------|-------------------------|-------------------------|-------------------------|--------|--------------|----------------------|----------------|
| Body worn/HotSpot                           | LTE Band 13 | 10              | GPMK                 | A    | OEM3M         | 1:1        | -0.05           | 782.00          | 23230     | 0.0      | 25.0                    | 24.28                 | 1        | 25         | Back          | 10           | 0          | 0.290                   | 1.185                | 0.342                   | 0.568                   | 0.355                   | 29.6   |              |                      |                |
| Body worn/HotSpot                           | LTE Band 13 | 10              | GPMK                 | A    | OEM3M         | 1:1        | 0.01            | 782.00          | 23230     | 1.0      | 24.0                    | 23.45                 | 25       | 25         | Back          | 10           | 0          | 0.230                   | 1.185                | 0.264                   | 0.552                   | 0.345                   | 29.7   |              |                      |                |
| Hotspot                                     | LTE Band 13 | 10              | GPMK                 | A    | OEM3M         | 1:1        | 0.01            | 782.00          | 23230     | 1.0      | 25.0                    | 24.45                 | 25       | 25         | Front         | 10           | 0          | 0.290                   | 1.185                | 0.342                   | 0.568                   | 0.355                   | 29.6   |              |                      |                |
| Hotspot                                     | LTE Band 13 | 10              | GPMK                 | A    | OEM3M         | 1:1        | -0.01           | 782.00          | 23230     | 1.0      | 24.0                    | 23.45                 | 25       | 25         | Front         | 10           | 0          | 0.143                   | 1.185                | 0.162                   | 0.339                   | 0.212                   | 31.8   |              |                      |                |
| Hotspot                                     | LTE Band 13 | 10              | GPMK                 | A    | OEM3M         | 1:1        | 0.1             | 782.00          | 23230     | 0.0      | 25.0                    | 24.28                 | 1        | 25         | Bottom        | 10           | 0          | 0.075                   | 1.180                | 0.089                   | 0.147                   | 0.092                   | 35.5   |              |                      |                |
| Hotspot                                     | LTE Band 13 | 10              | GPMK                 | A    | OEM3M         | 1:1        | 0.0             | 782.00          | 23230     | 1.0      | 25.0                    | 24.45                 | 25       | 25         | Bottom        | 10           | 0          | 0.065                   | 1.135                | 0.099                   | 0.145                   | 0.091                   | 35.5   |              |                      |                |
| Hotspot                                     | LTE Band 13 | 10              | GPMK                 | A    | OEM3M         | 1:1        | 0.0             | 782.00          | 23230     | 0.0      | 25.0                    | 24.28                 | 1        | 25         | Right         | 10           | 0          | 0.190                   | 1.180                | 0.224                   | 0.372                   | 0.231                   | 31.4   |              |                      |                |
| Hotspot                                     | LTE Band 13 | 10              | GPMK                 | A    | OEM3M         | 1:1        | 0.0             | 782.00          | 23230     | 0.0      | 25.0                    | 24.45                 | 1        | 25         | Left          | 10           | 0          | 0.220                   | 1.135                | 0.146                   | 0.420                   | 0.146                   | 30.9   |              |                      |                |
| Hotspot                                     | LTE Band 13 | 10              | GPMK                 | A    | OEM3M         | 1:1        | 0.06            | 782.00          | 23230     | 0.0      | 25.0                    | 24.28                 | 1        | 25         | Left          | 10           | 0          | 0.318                   | 1.180                | 0.235                   | 0.423                   | 0.264                   | 30.9   |              |                      |                |
| Hotspot                                     | LTE Band 13 | 10              | GPMK                 | A    | OEM3M         | 1:1        | -0.04           | 782.00          | 23230     | 0.0      | 24.0                    | 23.45                 | 25       | 25         | Left          | 10           | 0          | 0.168                   | 1.135                | 0.191                   | 0.398                   | 0.249                   | 31.1   |              |                      |                |
| MAX CABLE LOSS SAFETY LIMIT                 |             |                 |                      |      |               |            |                 |                 |           |          |                         |                       |          |            |               |              |            |                         | Body                 |                         |                         |                         |        | Spatial Peak |                      |                |
| MIN CABLE LOSS SAFETY LIMIT                 |             |                 |                      |      |               |            |                 |                 |           |          |                         |                       |          |            |               |              |            |                         | Body                 |                         |                         |                         |        | SAR Peak     |                      |                |
| Maximum SAR Level for Absorption Resolution |             |                 |                      |      |               |            |                 |                 |           |          |                         |                       |          |            |               |              |            |                         | Body                 |                         |                         |                         |        | SAR Peak     |                      |                |

### Table 12-22

| Exposure                         | Band / Mode       | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Drift [dB] | Frequency [MHz] | Channel # | MPR [dB] | Max Allowed Power [dBm] | Conducted Power [dBm] | RB Size | RB Offset | Test Position | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | PLM1 [dBm] | Overall PLM1 [dBm] | EP5 PLM1 [dBm] | EP5 PLM2 [dBm] |
|----------------------------------|-------------------|-----------------|----------------------|------|---------------|------------|------------------|-----------------|-----------|----------|-------------------------|-----------------------|---------|-----------|---------------|--------------|------------------------|----------------------|------------------------|------------------------|-------------------------|--------|------------|--------------------|----------------|----------------|
| Body worn/Hotspot                | LTE Band 13       | 10              | GPSK                 | E    | 083BM         | 1:1        | -0.05            | 782.00          | 23230     | 0.0      | 25.0                    | 24.52                 | 1       | 25        | Back          | 10           | 0.454                  | 1.117                | 0.507                  | 0.700                  | 0.438                   | A20    | 27.9       |                    |                |                |
|                                  | Body worn/Hotspot | LTE Band 13     | GPSK                 | E    | 083BM         | 1:1        | 0.00             | 782.00          | 23230     | 1.0      | 24.0                    | 23.59                 | 1       | 25        | Back          | 10           | 0.461                  | 1.099                | 0.461                  | 0.693                  | 0.438                   | A21    | 27.9       | 26.4               | 26.4           |                |
|                                  | Hotspot           | LTE Band 13     | GPSK                 | E    | 082AM         | 1:1        | 0.01             | 782.00          | 23230     | 0.0      | 25.0                    | 24.52                 | 1       | 25        | Front         | 10           | 0.484                  | 1.117                | 0.541                  | 0.746                  | 0.466                   |        | 27.6       |                    |                |                |
|                                  | Hotspot           | LTE Band 13     | GPSK                 | E    | 082AM         | 1:1        | 0.01             | 782.00          | 23230     | 1.0      | 24.0                    | 23.59                 | 25      | 25        | Front         | 10           | 0.378                  | 1.099                | 0.415                  | 0.722                  | 0.451                   |        | 27.8       |                    |                |                |
|                                  | Hotspot           | LTE Band 13     | GPSK                 | E    | 083BM         | 1:1        | 0.20             | 782.00          | 23230     | 0.0      | 25.0                    | 24.52                 | 1       | 25        | Top           | 10           | 0.639                  | 1.117                | 0.714                  | 0.985                  | 0.610                   |        | 28.4       |                    |                |                |
|                                  | Hotspot           | LTE Band 13     | GPSK                 | E    | 083BM         | 1:1        | 0.07             | 782.00          | 23230     | 1.0      | 24.0                    | 23.59                 | 25      | 25        | Top           | 10           | 0.403                  | 1.099                | 0.443                  | 0.770                  | 0.481                   |        | 27.9       |                    |                |                |
|                                  | Hotspot           | LTE Band 13     | GPSK                 | E    | 082AM         | 1:1        | 0.10             | 782.00          | 23230     | 0.0      | 25.0                    | 24.52                 | 1       | 25        | Right         | 10           | 0.449                  | 1.117                | 0.502                  | 0.692                  | 0.433                   |        | 27.9       |                    |                |                |
|                                  | Hotspot           | LTE Band 13     | GPSK                 | E    | 082AM         | 1:1        | 0.02             | 782.00          | 23230     | 1.0      | 24.0                    | 23.59                 | 25      | 25        | Right         | 10           | 0.452                  | 1.099                | 0.497                  | 0.683                  | 0.539                   |        | 27.9       |                    |                |                |
| ANCL/CLS 1.2 1992 - SAFETY LIMIT |                   |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              | Body                   |                      |                        |                        |                         |        |            |                    |                |                |
| Spatial Peak                     |                   |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              | 1.5 W/kg (mW/g)        |                      |                        |                        |                         |        |            |                    |                |                |
| Unintentional Radiators          |                   |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |                        |                      |                        |                        |                         |        |            |                    |                |                |

|                                             |                                |                                   |
|---------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: A3LSMS938B                          | RF EXPOSURE PART 1 TEST REPORT | Approved by:<br>Technical Manager |
| Document S/N:<br>1M2408260069-01.A3L (Rev1) | DUT Type:<br>Portable Handset  | Page 94 of 131                    |

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## 12.8 LTE Band 26 (Cell) Standalone SAR

### Table 12-23

[illegible]

### Table 12-24

| Exposure                            |  | Band / Mode | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Drift [dB] | Frequency [MHz] | Channel # | MPE [dB] | Max Allowed Power [dBm] | Conducted Power [dBm] | RF Size | RF Offset | Test Position | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor                | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | Limit [dBm]      | Overall PEmt [dBm] | EPS P1 [dBm] |
|-------------------------------------|--|-------------|-----------------|----------------------|------|---------------|------------|------------------|-----------------|-----------|----------|-------------------------|-----------------------|---------|-----------|---------------|--------------|------------------------|-------------------------------------|------------------------|------------------------|-------------------------|--------|------------------|--------------------|--------------|
| Head                                |  | LTE Band 26 | 15              | QPSK                 | E    | 0833M         | 1:1        | -0.06            | 831.50          | 26865     | 0.0      | 22.0                    | 20.97                 | 1       | 36        | Right Cheek   | 0            | 0.580                  | 1.268                               | 0.735                  | 0.735                  | 0.459                   |        | 23.3             |                    |              |
| Head                                |  | LTE Band 26 | 15              | QPSK                 | E    | 0833M         | 1:1        | -0.00            | 831.50          | 26865     | 0.0      | 22.0                    | 21.01                 | 36      | 0         | Right Cheek   | 0            | 0.545                  | 1.256                               | 0.685                  | 0.685                  | 0.428                   |        | 23.6             |                    |              |
| Head                                |  | LTE Band 26 | 15              | QPSK                 | E    | 0833M         | 1:1        | -0.00            | 831.50          | 26865     | 0.0      | 22.0                    | 20.97                 | 1       | 36        | Right Tit     | 0            | 0.565                  | 1.268                               | 0.716                  | 0.716                  | 0.448                   |        | 23.4             |                    |              |
| Head                                |  | LTE Band 26 | 15              | QPSK                 | E    | 0833M         | 1:1        | -0.00            | 831.50          | 26865     | 0.0      | 22.0                    | 21.01                 | 36      | 0         | Right Tit     | 0            | 0.528                  | 1.256                               | 0.663                  | 0.663                  | 0.414                   |        | 23.7             |                    |              |
| Head                                |  | LTE Band 26 | 15              | QPSK                 | E    | 0833M         | 1:1        | -0.01            | 831.50          | 26865     | 0.0      | 22.0                    | 20.97                 | 1       | 36        | Left Cheek    | 0            | 0.625                  | 1.268                               | 1.173                  | 1.173                  | 0.733                   | A22    | 23.3             |                    |              |
| Head                                |  | LTE Band 26 | 15              | QPSK                 | E    | 0833M         | 1:1        | -0.00            | 831.50          | 26865     | 0.0      | 22.0                    | 21.01                 | 36      | 0         | Left Cheek    | 0            | 0.576                  | 1.256                               | 1.127                  | 1.127                  | 0.697                   |        | 23.6             |                    | 21.0         |
| Head                                |  | LTE Band 26 | 15              | QPSK                 | E    | 0833M         | 1:1        | -0.00            | 831.50          | 26865     | 0.0      | 22.0                    | 20.93                 | 75      | 0         | Left Cheek    | 0            | 0.821                  | 1.279                               | 1.115                  | 1.115                  | 0.693                   |        | 23.7             |                    |              |
| Head                                |  | LTE Band 26 | 15              | QPSK                 | E    | 0833M         | 1:1        | 0.10             | 831.50          | 26865     | 0.0      | 22.0                    | 20.97                 | 1       | 36        | Left Tit      | 0            | 0.944                  | 1.268                               | 1.070                  | 1.070                  | 0.669                   |        | 21.7             |                    |              |
| Head                                |  | LTE Band 26 | 15              | QPSK                 | E    | 0833M         | 1:1        | -0.03            | 831.50          | 26865     | 0.0      | 22.0                    | 21.01                 | 36      | 0         | Left Tit      | 0            | 0.856                  | 1.256                               | 1.075                  | 1.075                  | 0.672                   |        | 21.6             |                    |              |
| Head                                |  | LTE Band 26 | 15              | QPSK                 | E    | 0833M         | 1:1        | -0.03            | 831.50          | 26865     | 0.0      | 22.0                    | 20.93                 | 75      | 0         | Left Tit      | 0            | 0.829                  | 1.279                               | 1.060                  | 1.060                  | 0.663                   |        | 21.7             |                    |              |
| Anno/IEEE C95.1 1992 - SAFETY LIMIT |  |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |                        | Head                                |                        |                        |                         |        | 1.6 W/kg (mW/g)  |                    |              |
| Spatial Peak                        |  |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |                        | Unmodulated CW (General Population) |                        |                        |                         |        | 0.08 W/kg (mW/g) |                    |              |

### Table 12-25

| Table 1: Example of a 2D SAR Measurement Data Set |             |                 |                      |      |               |            |                 |                 |           |          |                         |                       |         |           |               |              |                                  |                        |                      |                        |                        |                       |        |           |                    |                |
|---------------------------------------------------|-------------|-----------------|----------------------|------|---------------|------------|-----------------|-----------------|-----------|----------|-------------------------|-----------------------|---------|-----------|---------------|--------------|----------------------------------|------------------------|----------------------|------------------------|------------------------|-----------------------|--------|-----------|--------------------|----------------|
| Exposure                                          | Band / Mode | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power DfB [dBm] | Frequency [MHz] | Channel # | MPR [dB] | Max Allowed Power [dBm] | Conducted Power [dBm] | RB Size | RB Offset | Test Position | Spacing [mm] | Tune date                        | Measured 1g SAR [W/kg] | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Rate [g-SAR] | Pict # | Pict [mm] | Overall Pict [dBm] | EPS Pict [dBm] |
| Body-worn/Hotspot                                 | LTE Band 26 | 15              | QPSK                 | A    | 0813M         | 1:1        | 0.04            | 831.50          | 26865     | 0.0      | 25.0                    | 24.33                 | 1       | 36        | Back          | 10           | 11                               | 0.405                  | 1.199                | 0.473                  | 0.987                  | 0.617                 | 28.2   |           |                    |                |
| Body-worn/Hotspot                                 | LTE Band 26 | 15              | QPSK                 | A    | 0813M         | 1:1        | 0.02            | 831.50          | 26865     | 1.0      | 24.0                    | 23.21                 | 36      | 37        | Back          | 10           | 11                               | 0.311                  | 1.167                | 0.373                  | 0.983                  | 0.613                 | 28.2   |           |                    |                |
| Hotspot                                           | LTE Band 26 | 15              | QPSK                 | A    | 0813M         | 1:1        | 0.02            | 831.50          | 26865     | 0.0      | 25.0                    | 23.21                 | 36      | 37        | Back          | 10           | 11                               | 0.267                  | 1.199                | 0.244                  | 0.983                  | 0.613                 | 28.2   |           |                    |                |
| Hotspot                                           | LTE Band 26 | 15              | QPSK                 | A    | 0813M         | 1:1        | 0.01            | 831.50          | 26865     | 1.0      | 24.0                    | 23.23                 | 36      | 37        | Front         | 10           | 11                               | 0.169                  | 1.199                | 0.197                  | 0.517                  | 0.333                 | 10.0   |           |                    |                |
| Hotspot                                           | LTE Band 26 | 15              | QPSK                 | A    | 0813M         | 1:1        | 0.04            | 831.50          | 26865     | 0.0      | 25.0                    | 24.33                 | 1       | 36        | Bottom        | 10           | 11                               | 0.118                  | 1.167                | 0.138                  | 0.296                  | 0.180                 | 33.6   |           |                    |                |
| Hotspot                                           | LTE Band 26 | 15              | QPSK                 | A    | 0813M         | 1:1        | 0.02            | 831.50          | 26865     | 1.0      | 24.0                    | 23.21                 | 36      | 37        | Bottom        | 10           | 11                               | 0.087                  | 1.199                | 0.074                  | 0.274                  | 0.171                 | 31.8   |           |                    |                |
| Hotspot                                           | LTE Band 26 | 15              | QPSK                 | A    | 0813M         | 1:1        | 0.07            | 831.50          | 26865     | 0.0      | 25.0                    | 24.33                 | 1       | 36        | Right         | 10           | 11                               | 0.097                  | 1.167                | 0.067                  | 0.139                  | 0.087                 | 36.7   |           |                    |                |
| Hotspot                                           | LTE Band 26 | 15              | QPSK                 | A    | 0813M         | 1:1        | 0.02            | 831.50          | 26865     | 1.0      | 24.0                    | 23.21                 | 36      | 37        | Right         | 10           | 11                               | 0.081                  | 1.199                | 0.069                  | 0.139                  | 0.087                 | 36.7   |           |                    |                |
| Hotspot                                           | LTE Band 26 | 15              | QPSK                 | A    | 0813M         | 1:1        | 0.04            | 831.50          | 26865     | 0.0      | 25.0                    | 24.33                 | 1       | 36        | Left          | 10           | 11                               | 0.143                  | 1.167                | 0.165                  | 0.344                  | 0.215                 | 32.8   |           |                    |                |
| Hotspot                                           | LTE Band 26 | 15              | QPSK                 | A    | 0813M         | 1:1        | 0.07            | 831.50          | 26865     | 1.0      | 24.0                    | 23.21                 | 36      | 37        | Left          | 10           | 11                               | 0.109                  | 1.199                | 0.126                  | 0.331                  | 0.207                 | 32.9   |           |                    |                |
| Average Power Level: SAFETY LIMIT                 |             |                 |                      |      |               |            |                 |                 |           |          |                         |                       |         |           |               |              |                                  |                        |                      |                        |                        |                       |        |           |                    |                |
| Spatial Peak                                      |             |                 |                      |      |               |            |                 |                 |           |          |                         |                       |         |           |               |              | Body                             |                        |                      |                        |                        |                       |        |           |                    |                |
| Maximum Power Level: General Population           |             |                 |                      |      |               |            |                 |                 |           |          |                         |                       |         |           |               |              | Restricted Power Level: 1.0 mW/g |                        |                      |                        |                        |                       |        |           |                    |                |

### Table 12-26

| Exposure                                 | Band / Mode | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Drift [dB] | Frequency [MHz] | Channel # | MPR [dB] | Max Allowed Power [dBm] | Conducted Power [dBm] | RB Size | RB Offset | Test Position | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Rate (1g SAR) | Plot # | Plimit [dBm] | Overall Plimit [dBm] | EFS Plimit [dBm] |
|------------------------------------------|-------------|-----------------|----------------------|------|---------------|------------|------------------|-----------------|-----------|----------|-------------------------|-----------------------|---------|-----------|---------------|--------------|------------------------|----------------------|------------------------|------------------------|------------------------|--------|--------------|----------------------|------------------|
| Body worn/Hotspot                        | LTE Band 26 | 15              | GPSS                 | E    | 0833M         | 1:1        | -0.06            | 831.50          | 26865     | 0.0      | 25.0                    | 24.23                 | 1       | 36        | Back          | 10           | 0.431                  | 1.194                | 0.517                  | 0.730                  | 0.456                  | A21    | 27.8         |                      |                  |
| Body worn/Hotspot                        | LTE Band 26 | 15              | GPSS                 | E    | 0833M         | 1:1        | -0.06            | 831.50          | 26865     | 1.0      | 24.0                    | 23.30                 | 36      | 0         | Back          | 10           | 0.314                  | 1.175                | 0.360                  | 0.656                  |                        |        |              |                      |                  |
| Hotspot                                  | LTE Band 26 | 15              | GPSS                 | E    | 0824M         | 1:1        | -0.11            | 831.50          | 26865     | 0.0      | 25.0                    | 24.30                 | 1       | 36        | Front         | 10           | 0.434                  | 1.194                | 0.518                  | 0.732                  | 0.458                  |        | 27.8         |                      |                  |
| Hotspot                                  | LTE Band 26 | 15              | GPSS                 | E    | 0824M         | 1:1        | -0.02            | 831.50          | 26865     | 1.0      | 24.0                    | 23.30                 | 36      | 0         | Front         | 10           | 0.318                  | 1.175                | 0.397                  | 0.706                  | 0.443                  |        | 28.0         |                      |                  |
| Hotspot                                  | LTE Band 26 | 15              | GPSS                 | E    | 0833M         | 1:1        | -0.09            | 831.50          | 26865     | 0.0      | 25.0                    | 24.23                 | 1       | 36        | Top           | 10           | 0.434                  | 1.194                | 0.678                  | 0.918                  | 0.464                  | A24    | 28.4         | 26.6                 |                  |
| Hotspot                                  | LTE Band 26 | 15              | GPSS                 | E    | 0833M         | 1:1        | -0.01            | 831.50          | 26865     | 1.0      | 24.0                    | 23.30                 | 36      | 0         | Top           | 10           | 0.424                  | 1.175                | 0.498                  | 0.886                  | 0.554                  |        | 27.0         |                      |                  |
| Hotspot                                  | LTE Band 26 | 15              | GPSS                 | E    | 0824M         | 1:1        | -0.04            | 831.50          | 26865     | 0.0      | 25.0                    | 24.23                 | 1       | 36        | Right         | 10           | 0.462                  | 1.194                | 0.552                  | 0.779                  | 0.487                  |        | 27.5         |                      |                  |
| Hotspot                                  | LTE Band 26 | 15              | GPSS                 | E    | 0824M         | 1:1        | -0.03            | 831.50          | 26865     | 1.0      | 24.0                    | 23.30                 | 36      | 0         | Right         | 10           | 0.308                  | 1.175                | 0.362                  | 0.643                  | 0.403                  |        | 28.4         |                      |                  |
| ANU/IEL CTS 1.1 1992 - SAFETY LIMIT      |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |                        | Body                 |                        |                        |                        |        |              |                      |                  |
| Spatial Peak                             |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |                        | 1.6 W/kg (mW/g)      |                        |                        |                        |        |              |                      |                  |
| Uncontrolled Exposure General Population |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |                        | 0.08 W/kg (mW/g)     |                        |                        |                        |        |              |                      |                  |

|                                             |                                |                                   |
|---------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: A3LSMS938B                          | RF EXPOSURE PART 1 TEST REPORT | Approved by:<br>Technical Manager |
| Document S/N:<br>1M2408260069-01.A3L (Rev1) | DUT Type:<br>Portable Handset  | Page 95 of 131                    |



## 12.9 LTE Band 66 (AWS) Standalone SAR

Table 12-27

| Exposure                                 | Band / Mode | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Drift [dB] | Frequency [MHz] | Channel # | MPR [dB] | Max Allowed Power [dBm] | Conducted Power [dBm] | RB Size | RB Offset | Test Position | Spacing [mm] | Tune state | Measured 1g SAR [W/kg] | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | Pinnt [dBm] | Overall Pinnt [dBm] | EFS Pinnt [dBm] |
|------------------------------------------|-------------|-----------------|----------------------|------|---------------|------------|------------------|-----------------|-----------|----------|-------------------------|-----------------------|---------|-----------|---------------|--------------|------------|------------------------|----------------------|------------------------|------------------------|-------------------------|--------|-------------|---------------------|-----------------|
| Head                                     | LTE Band 66 | 20              | QPSK                 | A    | 0738M         | 1:1        | -0.07            | 1770.00         | 132572    | 0.0      | 24.5                    | 23.54                 | 1       | 0         | Right Cheek   | 0            | 99         | 0.094                  | 1.247                | 0.117                  | 0.548                  | 0.943                   |        | 33.8        |                     |                 |
| Head                                     | LTE Band 66 | 20              | QPSK                 | A    | 0738M         | 1:1        | -0.07            | 1770.00         | 132572    | 1.0      | 25.5                    | 22.50                 | 50      | 0         | Right Cheek   | 0            | 99         | 0.099                  | 1.239                | 0.099                  | 0.586                  | 0.986                   |        | 33.5        |                     |                 |
| Head                                     | LTE Band 66 | 20              | QPSK                 | A    | 0738M         | 1:1        | -0.10            | 1770.00         | 132572    | 0.0      | 24.5                    | 23.54                 | 1       | 0         | Right Thigh   | 0            | 141        | 0.059                  | 1.247                | 0.024                  | 0.111                  | 0.069                   |        | 40.7        |                     |                 |
| Head                                     | LTE Band 66 | 20              | QPSK                 | A    | 0738M         | 1:1        | 0.09             | 1770.00         | 132572    | 1.0      | 23.5                    | 22.50                 | 50      | 0         | Right Thigh   | 0            | 141        | 0.017                  | 1.239                | 0.023                  | 0.126                  | 0.079                   |        | 40.1        |                     |                 |
| Head                                     | LTE Band 66 | 20              | QPSK                 | A    | 0738M         | 1:1        | 0.04             | 1770.00         | 132572    | 0.0      | 24.5                    | 23.54                 | 1       | 0         | Left Cheek    | 0            | 99         | 0.094                  | 1.247                | 0.072                  | 0.338                  | 0.911                   |        | 36.3        |                     | 33.5            |
| Head                                     | LTE Band 66 | 20              | QPSK                 | A    | 0738M         | 1:1        | -0.05            | 1770.00         | 132572    | 1.0      | 23.5                    | 22.50                 | 50      | 0         | Left Cheek    | 0            | 99         | 0.043                  | 1.258                | 0.054                  | 0.319                  | 0.939                   |        | 36.1        |                     |                 |
| Head                                     | LTE Band 66 | 20              | QPSK                 | A    | 0738M         | 1:1        | 0.04             | 1770.00         | 132572    | 0.0      | 24.5                    | 23.54                 | 1       | 0         | Left Thigh    | 0            | 99         | 0.096                  | 1.247                | 0.082                  | 0.385                  | 0.243                   |        | 35.3        |                     |                 |
| Head                                     | LTE Band 66 | 20              | QPSK                 | A    | 0738M         | 1:1        | -0.03            | 1770.00         | 132572    | 1.0      | 23.5                    | 22.50                 | 50      | 0         | Left Thigh    | 0            | 99         | 0.045                  | 1.258                | 0.037                  | 0.334                  | 0.209                   |        | 35.8        |                     |                 |
| AND/IEEE C95.1.1992 - SAFETY LIMIT       |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |            | Head                   |                      |                        |                        |                         |        |             |                     |                 |
| Spatial Peak                             |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |            | 1.6 W/kg (mW/g)        |                      |                        |                        |                         |        |             |                     |                 |
| Uncontrolled Exposure/General Population |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |            | averaged over 1 gram   |                      |                        |                        |                         |        |             |                     |                 |

Table 12-28

| Exposure                                 | Band / Mode | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Drift [dB] | Frequency [MHz] | Channel # | MPR [dB] | Max Allowed Power [dBm] | Conducted Power [dBm] | RB Size | RB Offset | Test Position | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | Pinnt [dBm] | Overall Pinnt [dBm] | EFS Pinnt [dBm] |
|------------------------------------------|-------------|-----------------|----------------------|------|---------------|------------|------------------|-----------------|-----------|----------|-------------------------|-----------------------|---------|-----------|---------------|--------------|------------------------|----------------------|------------------------|------------------------|-------------------------|--------|-------------|---------------------|-----------------|
| Head                                     | LTE Band 66 | 20              | QPSK                 | F    | 0827M         | 1:1        | 0.04             | 1720.00         | 132072    | 0.0      | 19.5                    | 18.29                 | 1       | 99        | Right Cheek   | 0            | 0.571                  | 1.321                | 0.754                  | 0.754                  | 0.471                   |        | 20.7        |                     |                 |
| Head                                     | LTE Band 66 | 20              | QPSK                 | F    | 0827M         | 1:1        | 0.04             | 1745.00         | 132322    | 0.0      | 19.5                    | 18.28                 | 1       | 50        | Right Cheek   | 0            | 0.685                  | 1.324                | 0.920                  | 0.920                  | 0.575                   |        | 19.8        |                     |                 |
| Head                                     | LTE Band 66 | 20              | QPSK                 | F    | 0827M         | 1:1        | 0.04             | 1770.00         | 132572    | 0.0      | 19.5                    | 18.39                 | 1       | 0         | Right Cheek   | 0            | 0.471                  | 1.291                | 0.866                  | 0.866                  | 0.541                   |        | 20.1        |                     |                 |
| Head                                     | LTE Band 66 | 20              | QPSK                 | F    | 0827M         | 1:1        | -0.05            | 1720.00         | 132072    | 0.0      | 19.5                    | 18.39                 | 50      | 0         | Right Cheek   | 0            | 0.430                  | 1.300                | 0.819                  | 0.819                  | 0.512                   |        | 20.3        |                     |                 |
| Head                                     | LTE Band 66 | 20              | QPSK                 | F    | 0827M         | 1:1        | 0.04             | 1745.00         | 132322    | 0.0      | 19.5                    | 18.35                 | 50      | 0         | Right Cheek   | 0            | 0.485                  | 1.303                | 0.893                  | 0.893                  | 0.558                   |        | 19.9        |                     |                 |
| Head                                     | LTE Band 66 | 20              | QPSK                 | F    | 0827M         | 1:1        | 0.03             | 1770.00         | 132572    | 0.0      | 19.5                    | 18.38                 | 50      | 0         | Right Cheek   | 0            | 0.578                  | 1.294                | 0.877                  | 0.877                  | 0.548                   |        | 20.0        |                     |                 |
| Head                                     | LTE Band 66 | 20              | QPSK                 | F    | 0827M         | 1:1        | 0.04             | 1770.00         | 132572    | 0.0      | 19.5                    | 18.39                 | 100     | 0         | Right Cheek   | 0            | 0.772                  | 1.300                | 1.004                  | 1.004                  | 0.628                   | A25    | 19.4        |                     |                 |
| Head                                     | LTE Band 66 | 20              | QPSK                 | F    | 0827M         | 1:1        | 0.03             | 1720.00         | 132072    | 0.0      | 19.5                    | 18.29                 | 1       | 99        | Right Thigh   | 0            | 0.707                  | 1.321                | 0.934                  | 0.934                  | 0.584                   |        | 19.7        |                     |                 |
| Head                                     | LTE Band 66 | 20              | QPSK                 | F    | 0827M         | 1:1        | 0.02             | 1745.00         | 132322    | 0.0      | 19.5                    | 18.28                 | 1       | 50        | Right Thigh   | 0            | 0.755                  | 1.324                | 1.000                  | 1.000                  | 0.625                   |        | 19.5        |                     |                 |
| Head                                     | LTE Band 66 | 20              | QPSK                 | F    | 0827M         | 1:1        | 0.02             | 1770.00         | 132572    | 0.0      | 19.5                    | 18.39                 | 100     | 0         | Right Thigh   | 0            | 0.770                  | 1.291                | 0.994                  | 0.994                  | 0.611                   |        | 19.3        |                     |                 |
| Head                                     | LTE Band 66 | 20              | QPSK                 | F    | 0827M         | 1:1        | 0.03             | 1720.00         | 132072    | 0.0      | 19.5                    | 18.36                 | 50      | 0         | Right Thigh   | 0            | 0.711                  | 1.300                | 0.924                  | 0.924                  | 0.578                   |        | 19.8        |                     |                 |
| Head                                     | LTE Band 66 | 20              | QPSK                 | F    | 0827M         | 1:1        | 0.03             | 1745.00         | 132322    | 0.0      | 19.5                    | 18.35                 | 50      | 0         | Right Thigh   | 0            | 0.738                  | 1.303                | 0.962                  | 0.962                  | 0.601                   |        | 19.6        |                     |                 |
| Head                                     | LTE Band 66 | 20              | QPSK                 | F    | 0827M         | 1:1        | 0.04             | 1770.00         | 132572    | 0.0      | 19.5                    | 18.39                 | 100     | 0         | Right Thigh   | 0            | 0.756                  | 1.299                | 0.978                  | 0.978                  | 0.611                   |        | 19.5        |                     |                 |
| Head                                     | LTE Band 66 | 20              | QPSK                 | F    | 0827M         | 1:1        | 0.02             | 1770.00         | 132572    | 0.0      | 19.5                    | 18.36                 | 100     | 0         | Right Thigh   | 0            | 0.752                  | 1.300                | 0.978                  | 0.978                  | 0.611                   |        | 19.5        |                     |                 |
| Head                                     | LTE Band 66 | 20              | QPSK                 | F    | 0827M         | 1:1        | -0.03            | 1770.00         | 132572    | 0.0      | 19.5                    | 18.39                 | 1       | 0         | Left Cheek    | 0            | 0.439                  | 1.291                | 0.567                  | 0.567                  | 0.354                   |        | 21.9        |                     |                 |
| Head                                     | LTE Band 66 | 20              | QPSK                 | F    | 0827M         | 1:1        | -0.02            | 1770.00         | 132572    | 0.0      | 19.5                    | 18.39                 | 100     | 0         | Left Cheek    | 0            | 0.433                  | 1.294                | 0.586                  | 0.586                  | 0.366                   |        | 21.8        |                     |                 |
| Head                                     | LTE Band 66 | 20              | QPSK                 | F    | 0827M         | 1:1        | -0.02            | 1770.00         | 132572    | 0.0      | 19.5                    | 18.39                 | 1       | 0         | Left Thigh    | 0            | 0.528                  | 1.293                | 0.682                  | 0.682                  | 0.426                   |        | 21.1        |                     |                 |
| Head                                     | LTE Band 66 | 20              | QPSK                 | F    | 0827M         | 1:1        | -0.03            | 1770.00         | 132572    | 0.0      | 19.5                    | 18.38                 | 50      | 0         | Left Thigh    | 0            | 0.548                  | 1.294                | 0.709                  | 0.709                  | 0.443                   |        | 20.9        |                     |                 |
| AND/IEEE C95.1.1992 - SAFETY LIMIT       |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |                        | Head                 |                        |                        |                         |        |             |                     |                 |
| Spatial Peak                             |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |                        | 1.6 W/kg (mW/g)      |                        |                        |                         |        |             |                     |                 |
| Uncontrolled Exposure/General Population |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |                        | averaged over 1 gram |                        |                        |                         |        |             |                     |                 |

Table 12-29

| Exposure                                 | Band / Mode | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Drift [dB] | Frequency [MHz] | Channel # | MPR [dB] | Max Allowed Power [dBm] | Conducted Power [dBm] | RB Size | RB Offset | Test Position | Spacing [mm] | Tune state | Measured 1g SAR [W/kg] | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | Pinnt [dBm] | Overall Pinnt [dBm] | EFS Pinnt [dBm] |
|------------------------------------------|-------------|-----------------|----------------------|------|---------------|------------|------------------|-----------------|-----------|----------|-------------------------|-----------------------|---------|-----------|---------------|--------------|------------|------------------------|----------------------|------------------------|------------------------|-------------------------|--------|-------------|---------------------|-----------------|
| Body worn/Hotspot                        | LTE Band 66 | 20              | QPSK                 | A    | 0738M         | 1:1        | -0.17            | 1770.00         | 132572    | 0.0      | 20.0                    | 19.39                 | 1       | 0         | Back          | 10           | 141        | 0.201                  | 1.153                | 0.450                  | 0.450                  | 0.261                   | A26    | 23.4        |                     |                 |
| Body worn/Hotspot                        | LTE Band 66 | 20              | QPSK                 | A    | 0738M         | 1:1        | 0.13             | 1770.00         | 132572    | 0.0      | 20.0                    | 19.38                 | 50      | 0         | Back          | 10           | 141        | 0.384                  | 1.153                | 0.443                  | 0.443                  | 0.277                   |        | 23.5        |                     |                 |
| Hotspot                                  | LTE Band 66 | 20              | QPSK                 | A    | 0738M         | 1:1        | 0.03             | 1770.00         | 132572    | 0.0      | 20.0                    | 19.39                 | 1       | 0         | Front         | 10           | 99         | 0.252                  | 1.153                | 0.405                  | 0.405                  | 0.263                   |        | 23.9        |                     |                 |
| Hotspot                                  | LTE Band 66 | 20              | QPSK                 | A    | 0738M         | 1:1        | 0.15             | 1770.00         | 132572    | 0.0      | 20.0                    | 19.38                 | 50      | 0         | Front         | 10           | 99         | 0.254                  | 1.153                | 0.413                  | 0.413                  | 0.258                   |        | 23.9        |                     |                 |
| Hotspot                                  | LTE Band 66 | 20              | QPSK                 | A    | 0827M         | 1:1        | -0.03            | 1720.00         | 132072    | 0.0      | 20.0                    | 19.30                 | 1       | 50        | Bottom        | 10           | 99         | 0.431                  | 1.175                | 0.976                  | 0.976                  | 0.610                   |        | 20.1        |                     |                 |
| Hotspot                                  | LTE Band 66 | 20              | QPSK                 | A    | 0827M         | 1:1        | -0.09            | 1745.00         | 132322    | 0.0      | 20.0                    | 19.24                 | 1       | 0         | Bottom        | 10           | 28         | 0.847                  | 1.191                | 1.009                  | 1.009                  | 0.631                   |        | 19.1        |                     |                 |
| Hotspot                                  | LTE Band 66 | 20              | QPSK                 | A    | 0827M         | 1:1        | -0.07            | 1770.00         | 132572    | 0.0      | 20.0                    | 19.39                 | 1       | 0         | Bottom        | 10           | 28         | 0.830                  | 1.153                | 1.047                  | 1.047                  | 0.654                   |        | 19.7        |                     |                 |
| Hotspot                                  | LTE Band 66 | 20              | QPSK                 | A    | 0827M         | 1:1        | 0.01             | 1720.00         | 132072    | 0.0      | 20.0                    | 19.36                 | 50      | 25        | Bottom        | 10           | 28         | 0.836                  | 1.159                | 0.969                  | 0.969                  | 0.606                   |        | 20.1        | 19.7                | 19.0            |
| Hotspot                                  | LTE Band 66 | 20              | QPSK                 | A    | 0827M         | 1:1        | 0.00             | 1745.00         | 132322    | 0.0      | 20.0                    | 19.33                 | 50      | 25        | Bottom        | 10           | 28         | 0.859                  | 1.167                | 1.002                  | 1.002                  | 0.626                   |        | 19.9        |                     |                 |
| Hotspot                                  | LTE Band 66 | 20              | QPSK                 | A    | 0827M         | 1:1        | 0.01             | 1770.00         | 132572    | 0.0      | 20.0                    | 19.38                 | 50      | 0         | Bottom        | 10           | 28         | 0.911                  | 1.153                | 1.055                  | 1.055                  | 0.659                   | A27    | 19.7        |                     |                 |
| Hotspot                                  | LTE Band 66 | 20              | QPSK                 | A    | 0827M         | 1:1        | -0.02            | 1770.00         | 132572    | 0.0      | 20.0                    | 19.36                 | 100     | 0         | Bottom        | 10           | 101        | 0.845                  | 1.159                | 0.979                  | 0.979                  | 0.612                   |        | 20.0        |                     |                 |
| Hotspot                                  | LTE Band 66 | 20              | QPSK                 | A    | 0738M         | 1:1        | 0.12             | 1770.00         | 132572    | 0.0      | 20.0                    | 19.39                 | 1       | 0         | Right         | 10           | 141        | 0.052                  | 1.153                | 0.071                  | 0.071                  | 0.044                   |        | 31.4        |                     |                 |
| Hotspot                                  | LTE Band 66 | 20              | QPSK                 | A    | 0738M         | 1:1        | 0.06             | 1770.00         | 132572    | 0.0      | 20.0                    | 19.38                 | 50      | 0         | Right         | 10           | 141        | 0.066                  | 1.153                | 0.076                  | 0.076                  | 0.048                   |        | 31.1        |                     |                 |
| Hotspot                                  | LTE Band 66 | 20              | QPSK                 | A    | 0738M         | 1:1        | -0.17            | 1770.00         | 132572    | 0.0      | 20.0                    | 19.39                 | 1       | 0         | Left          | 10           | 141        | 0.039                  | 1.151                | 0.045                  | 0.045                  | 0.028                   |        | 33.4        |                     |                 |
| Hotspot                                  | LTE Band 66 | 20              | QPSK                 | A    | 0738M         | 1:1        | -0.05            | 1770.00         | 132572    | 0.0      | 20.0                    | 19.38                 | 50      | 0         | Left          | 10           | 141        | 0.040                  | 1.153                | 0.046                  | 0.046                  | 0.029                   |        | 33.3        |                     |                 |
| AND/IEEE C95.1.1992 - SAFETY LIMIT       |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |            | Body                   |                      |                        |                        |                         |        |             |                     |                 |
| Spatial Peak                             |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |            | 1.6 W/kg (mW/g)        |                      |                        |                        |                         |        |             |                     |                 |
| Uncontrolled Exposure/General Population |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |            | averaged over 10 grams |                      |                        |                        |                         |        |             |                     |                 |



## 12.10 LTE Band 25 (PCS) Standalone SAR

Table 12-31

| Exposure                                 | Band / Mode | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Drift [dB] | Frequency [MHz] | Channel # | MPR [dB] | Max Allowed Power [dBm] | Conducted Power [dBm] | RB Size | RB Offset | Test Position | Spacing [mm] | Tune state | Measured 1g SAR [W/kg] | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | PLimit [dBm] | Overall PLimit [dBm] | RF5 PLimit [dBm] |      |
|------------------------------------------|-------------|-----------------|----------------------|------|---------------|------------|------------------|-----------------|-----------|----------|-------------------------|-----------------------|---------|-----------|---------------|--------------|------------|------------------------|----------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|------|
| Head                                     | LTE Band 25 | 20              | QPSK                 | A    | 0833M         | 1:1        | 0.03             | 1882.50         | 26365     | 0.0      | 24.0                    | 23.55                 | 1       | 50        | Right Cheek   | 0            | 108        | 0.121                  | 1.109                | 0.134                  | 0.573                  | 0.958                   |        | 32.7         |                      |                  |      |
| Head                                     | LTE Band 25 | 20              | QPSK                 | A    | 0738M         | 1:1        | -0.09            | 1882.50         | 26365     | 1.0      | 23.0                    | 22.56                 | 50      | 50        | Right Cheek   | 0            | 99         | 0.081                  | 1.107                | 0.090                  | 0.461                  | 0.901                   |        | 32.6         |                      |                  |      |
| Head                                     | LTE Band 25 | 20              | QPSK                 | A    | 0738M         | 1:1        | 0.04             | 1882.50         | 26365     | 0.0      | 24.0                    | 23.55                 | 1       | 50        | Right Tilt    | 0            | 141        | 0.509                  | 1.108                | 0.050                  | 0.983                  | 0.937                   |        | 44.0         |                      |                  |      |
| Head                                     | LTE Band 25 | 20              | QPSK                 | A    | 0738M         | 1:1        | 0.18             | 1882.50         | 26365     | 1.0      | 23.0                    | 22.56                 | 50      | 50        | Right Tilt    | 0            | 141        | 0.638                  | 1.107                | 0.011                  | 0.959                  | 0.937                   |        | 42.4         |                      |                  |      |
| Head                                     | LTE Band 25 | 20              | QPSK                 | A    | 0738M         | 1:1        | 0.09             | 1882.50         | 26365     | 0.0      | 24.0                    | 23.55                 | 1       | 50        | Left Cheek    | 0            | 108        | 0.071                  | 1.109                | 0.060                  | 0.241                  | 0.913                   |        | 34.9         |                      | 32.7             | 30.1 |
| Head                                     | LTE Band 25 | 20              | QPSK                 | A    | 0738M         | 1:1        | 0.03             | 1882.50         | 26365     | 1.0      | 23.0                    | 22.56                 | 50      | 50        | Left Cheek    | 0            | 108        | 0.096                  | 1.107                | 0.062                  | 0.333                  | 0.908                   |        | 35.0         |                      |                  |      |
| Head                                     | LTE Band 25 | 20              | QPSK                 | A    | 0738M         | 1:1        | -0.11            | 1882.50         | 26365     | 0.0      | 24.0                    | 23.55                 | 1       | 50        | Left Tilt     | 0            | 108        | 0.067                  | 1.109                | 0.074                  | 0.317                  | 0.938                   |        | 35.2         |                      |                  |      |
| Head                                     | LTE Band 25 | 20              | QPSK                 | A    | 0738M         | 1:1        | -0.07            | 1882.50         | 26365     | 1.0      | 23.0                    | 22.56                 | 50      | 50        | Left Tilt     | 0            | 108        | 0.066                  | 1.107                | 0.071                  | 0.352                  | 0.945                   |        | 34.1         |                      |                  |      |
| ANSI/IEEE C63.1 1992 - SAFETY LIMIT      |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |            | Head                   |                      |                        |                        |                         |        |              |                      |                  |      |
| Spatial Peak                             |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |            | 1.6 W/kg (mW/g)        |                      |                        |                        |                         |        |              |                      |                  |      |
| Uncontrolled Exposure/General Population |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |            | averaged over 1 gram   |                      |                        |                        |                         |        |              |                      |                  |      |

Table 12-32

| Exposure                                 | Band / Mode | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Drift [dB] | Frequency [MHz] | Channel # | MPR [dB] | Max Allowed Power [dBm] | Conducted Power [dBm] | RB Size | RB Offset | Test Position | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | PLimit [dBm] | Overall PLimit [dBm] | RF5 PLimit [dBm] |
|------------------------------------------|-------------|-----------------|----------------------|------|---------------|------------|------------------|-----------------|-----------|----------|-------------------------|-----------------------|---------|-----------|---------------|--------------|------------------------|----------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|
| Head                                     | LTE Band 25 | 20              | QPSK                 | F    | 0827M         | 1:1        | 0.05             | 1860.00         | 26140     | 0.0      | 20.0                    | 18.96                 | 1       | 50        | Right Cheek   | 0            | 0.769                  | 1.271                | 0.977                  | 0.977                  | 0.611                   |        | 20.1         |                      |                  |
| Head                                     | LTE Band 25 | 20              | QPSK                 | F    | 0827M         | 1:1        | 0.06             | 1882.50         | 26365     | 0.0      | 20.0                    | 19.10                 | 1       | 50        | Right Cheek   | 0            | 0.762                  | 1.230                | 0.925                  | 0.925                  | 0.578                   |        | 20.3         |                      |                  |
| Head                                     | LTE Band 25 | 20              | QPSK                 | F    | 0827M         | 1:1        | 0.04             | 1900.00         | 26390     | 0.0      | 20.0                    | 19.02                 | 1       | 0         | Right Cheek   | 0            | 0.784                  | 1.253                | 0.977                  | 0.977                  | 0.598                   |        | 20.3         |                      |                  |
| Head                                     | LTE Band 25 | 20              | QPSK                 | F    | 0827M         | 1:1        | 0.06             | 1860.00         | 26140     | 0.0      | 20.0                    | 18.96                 | 50      | 25        | Right Cheek   | 0            | 0.788                  | 1.295                | 0.997                  | 0.997                  | 0.621                   |        | 20.0         |                      |                  |
| Head                                     | LTE Band 25 | 20              | QPSK                 | F    | 0827M         | 1:1        | 0.05             | 1882.50         | 26365     | 0.0      | 20.0                    | 19.18                 | 50      | 50        | Right Cheek   | 0            | 0.784                  | 1.208                | 0.911                  | 0.911                  | 0.569                   |        | 20.4         |                      |                  |
| Head                                     | LTE Band 25 | 20              | QPSK                 | F    | 0827M         | 1:1        | 0.02             | 1900.00         | 26390     | 0.0      | 20.0                    | 19.16                 | 50      | 50        | Right Cheek   | 0            | 0.775                  | 1.213                | 0.935                  | 0.935                  | 0.584                   |        | 20.2         |                      |                  |
| Head                                     | LTE Band 25 | 20              | QPSK                 | F    | 0827M         | 1:1        | 0.01             | 1882.50         | 26365     | 0.0      | 20.0                    | 19.08                 | 100     | 0         | Right Cheek   | 0            | 0.767                  | 1.236                | 0.948                  | 0.948                  | 0.593                   |        | 20.2         |                      |                  |
| Head                                     | LTE Band 25 | 20              | QPSK                 | F    | 0827M         | 1:1        | 0.02             | 1860.00         | 26140     | 0.0      | 20.0                    | 18.96                 | 1       | 50        | Right Tilt    | 0            | 0.847                  | 1.271                | 1.077                  | 1.077                  | 0.673                   |        | 19.6         |                      |                  |
| Head                                     | LTE Band 25 | 20              | QPSK                 | F    | 0827M         | 1:1        | 0.00             | 1882.50         | 26365     | 0.0      | 20.0                    | 19.10                 | 1       | 50        | Right Tilt    | 0            | 0.884                  | 1.250                | 1.087                  | 1.087                  | 0.679                   |        | 19.6         |                      |                  |
| Head                                     | LTE Band 25 | 20              | QPSK                 | F    | 0827M         | 1:1        | -0.02            | 1900.00         | 26390     | 0.0      | 20.0                    | 19.02                 | 1       | 0         | Right Tilt    | 0            | 0.870                  | 1.253                | 1.090                  | 1.090                  | 0.681                   |        | 19.6         |                      |                  |
| Head                                     | LTE Band 25 | 20              | QPSK                 | F    | 0827M         | 1:1        | 0.03             | 1860.00         | 26140     | 0.0      | 20.0                    | 18.96                 | 50      | 25        | Right Tilt    | 0            | 0.838                  | 1.265                | 1.085                  | 1.085                  | 0.676                   |        | 19.6         |                      |                  |
| Head                                     | LTE Band 25 | 20              | QPSK                 | F    | 0827M         | 1:1        | 0.03             | 1882.50         | 26365     | 0.0      | 20.0                    | 19.18                 | 50      | 50        | Right Tilt    | 0            | 0.872                  | 1.208                | 1.053                  | 1.053                  | 0.658                   |        | 19.7         |                      |                  |
| Head                                     | LTE Band 25 | 20              | QPSK                 | F    | 0827M         | 1:1        | 0.01             | 1900.00         | 26390     | 0.0      | 20.0                    | 19.16                 | 50      | 50        | Right Tilt    | 0            | 0.900                  | 1.213                | 1.092                  | 1.092                  | 0.683                   | A28    | 19.6         |                      |                  |
| Head                                     | LTE Band 25 | 20              | QPSK                 | F    | 0827M         | 1:1        | 0.15             | 1900.00         | 26390     | 0.5      | 20.0                    | 19.16                 | 50      | 50        | Right Tilt    | 0            | 0.901                  | 1.013                | 1.013                  | 1.013                  | 0.631                   |        | 19.9         |                      |                  |
| Head                                     | LTE Band 25 | 20              | QPSK                 | F    | 0827M         | 1:1        | 0.03             | 1882.50         | 26365     | 0.0      | 20.0                    | 19.08                 | 100     | 0         | Right Tilt    | 0            | 0.859                  | 1.236                | 1.062                  | 1.062                  | 0.664                   |        | 19.7         |                      |                  |
| Head                                     | LTE Band 25 | 20              | QPSK                 | F    | 0827M         | 1:1        | -0.01            | 1882.50         | 26365     | 0.0      | 20.0                    | 19.10                 | 1       | 50        | Left Cheek    | 0            | 0.518                  | 1.230                | 0.837                  | 0.837                  | 0.398                   |        | 21.9         |                      |                  |
| Head                                     | LTE Band 25 | 20              | QPSK                 | F    | 0827M         | 1:1        | -0.01            | 1882.50         | 26365     | 0.0      | 20.0                    | 19.18                 | 50      | 50        | Left Cheek    | 0            | 0.519                  | 1.208                | 0.627                  | 0.627                  | 0.302                   |        | 22.0         |                      |                  |
| Head                                     | LTE Band 25 | 20              | QPSK                 | F    | 0827M         | 1:1        | 0.00             | 1860.00         | 26140     | 0.0      | 20.0                    | 18.96                 | 1       | 50        | Left Tilt     | 0            | 0.644                  | 1.271                | 0.819                  | 0.819                  | 0.512                   |        | 20.8         |                      |                  |
| Head                                     | LTE Band 25 | 20              | QPSK                 | F    | 0827M         | 1:1        | 0.01             | 1882.50         | 26365     | 0.0      | 20.0                    | 19.10                 | 1       | 50        | Left Tilt     | 0            | 0.667                  | 1.230                | 0.820                  | 0.820                  | 0.511                   |        | 20.8         |                      |                  |
| Head                                     | LTE Band 25 | 20              | QPSK                 | F    | 0827M         | 1:1        | -0.03            | 1900.00         | 26390     | 0.0      | 20.0                    | 19.02                 | 1       | 0         | Left Tilt     | 0            | 0.644                  | 1.253                | 0.807                  | 0.807                  | 0.504                   |        | 20.9         |                      |                  |
| Head                                     | LTE Band 25 | 20              | QPSK                 | F    | 0827M         | 1:1        | -0.02            | 1882.50         | 26365     | 0.0      | 20.0                    | 19.18                 | 50      | 50        | Left Tilt     | 0            | 0.660                  | 1.208                | 0.797                  | 0.797                  | 0.488                   |        | 20.9         |                      |                  |
| Head                                     | LTE Band 25 | 20              | QPSK                 | F    | 0827M         | 1:1        | 0.00             | 1900.00         | 26390     | 0.0      | 20.0                    | 19.08                 | 100     | 0         | Left Tilt     | 0            | 0.646                  | 1.236                | 0.798                  | 0.798                  | 0.499                   |        | 20.9         |                      |                  |
| ANSI/IEEE C63.1 1992 - SAFETY LIMIT      |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |                        |                      |                        |                        |                         |        |              |                      |                  |
| Spatial Peak                             |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |                        | Head                 |                        |                        |                         |        |              |                      |                  |
| Uncontrolled Exposure/General Population |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |                        | 1.6 W/kg (mW/g)      |                        |                        |                         |        |              |                      |                  |
|                                          |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |                        | averaged over 1 gram |                        |                        |                         |        |              |                      |                  |

Note: Blue entry represents variability measurement

Table 12-33

| Exposure                               | Band / Mode | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Drift [dB] | Frequency [MHz] | Channel # | MPR [dB] | Max Allowed Power [dBm] | Conducted Power [dBm] | RB Size | RB Offset | Test Position | Spacing [mm] | Tune state | Measured 1g SAR [W/kg] | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | PLimit [dBm] | Overall PLimit [dBm] | RF5 PLimit [dBm] |  |
|----------------------------------------|-------------|-----------------|----------------------|------|---------------|------------|------------------|-----------------|-----------|----------|-------------------------|-----------------------|---------|-----------|---------------|--------------|------------|------------------------|----------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|--|
| Body-worn/Hotspot                      | LTE Band 25 | 20              | QPSK                 | A    | 0738M         | 1:1        | -0.04            | 1900.00         | 26390     | 0.0      | 19.0                    | 18.36                 | 1       | 50        | Back          | 10           | 99         | 0.175                  | 1.159                | 0.435                  | 0.435                  | 0.272                   | A29    | 22.6         |                      |                  |  |
| Body-worn/Hotspot                      | LTE Band 25 | 20              | QPSK                 | A    | 0738M         | 1:1        | -0.10            | 1900.00         | 26390     | 0.0      | 19.0                    | 18.40                 | 50      | 50        | Back          | 10           | 99         | 0.345                  | 1.148                | 0.439                  | 0.439                  | 0.274                   | A29    | 22.5         |                      |                  |  |
| Hotspot                                | LTE Band 25 | 20              | QPSK                 | A    | 0738M         | 1:1        | -0.10            | 1900.00         | 26390     | 0.0      | 19.0                    | 18.36                 | 1       | 50        | Front         | 10           | 108        | 0.342                  | 1.159                | 0.396                  | 0.396                  | 0.248                   |        | 23.0         |                      |                  |  |
| Hotspot                                | LTE Band 25 | 20              | QPSK                 | A    | 0738M         | 1:1        | 0.08             | 1900.00         | 26390     | 0.0      | 19.0                    | 18.40                 | 50      | 50        | Front         | 10           | 108        | 0.355                  | 1.148                | 0.408                  | 0.408                  | 0.255                   |        | 22.8         |                      |                  |  |
| Hotspot                                | LTE Band 25 | 20              | QPSK                 | A    | 0827M         | 1:1        | -0.02            | 1860.00         | 26140     | 0.0      | 19.0                    | 18.25                 | 1       | 99        | Bottom        | 10           | 99         | 0.381                  | 1.189                | 0.566                  | 0.566                  | 0.279                   | A30    | 18.3         |                      |                  |  |
| Hotspot                                | LTE Band 25 | 20              | QPSK                 | A    | 0827M         | 1:1        | 0.01             | 1882.50         | 26365     | 0.0      | 19.0                    | 18.29                 | 1       | 50        | Bottom        | 10           | 99         | 0.896                  | 1.198                | 1.150                  | 1.150                  | 0.719                   | A30    | 18.3         |                      |                  |  |
| Hotspot                                | LTE Band 25 | 20              | QPSK                 | A    | 0827M         | 1:1        | -0.01            | 1900.00         | 26390     | 0.0      | 19.0                    | 18.36                 | 1       | 50        | Bottom        | 10           | 99         | 1.020                  | 1.159                | 1.182                  | 1.182                  | 0.739                   | A30    | 18.2         |                      |                  |  |
| Hotspot                                | LTE Band 25 | 20              | QPSK                 | A    | 0824M         | 1:1        | -0.01            | 1860.00         | 26140     | 0.0      | 19.0                    | 18.30                 | 1       | 99        | Bottom        | 10           | 99         | 0.948                  | 1.198                | 1.122                  | 1.122                  | 0.705                   | A30    | 18.5         |                      |                  |  |
| Hotspot                                | LTE Band 25 | 20              | QPSK                 | A    | 0827M         | 1:1        | -0.01            | 1860.00         | 26140     | 0.0      | 19.0                    | 18.30                 | 50      | 25        | Bottom        | 10           | 99         | 0.964                  | 1.175                | 1.133                  | 1.133                  | 0.708                   |        | 18.4         |                      | 18.0             |  |
| Hotspot                                | LTE Band 25 | 20              | QPSK                 | A    | 0827M         | 1:1        | 0.00             | 1882.50         | 26365     | 0.0      | 19.0                    | 18.39                 | 50      | 50        | Bottom        | 10           | 99         | 0.990                  | 1.151                | 1.141                  | 1.141                  | 0.714                   |        | 18.4         |                      |                  |  |
| Hotspot                                | LTE Band 25 | 20              | QPSK                 | A    | 0827M         | 1:1        | -0.01            | 1900.00         | 26390     | 0.0      | 19.0                    | 18.40                 | 50      | 50        | Bottom        | 10           | 99         | 1.000                  | 1.148                | 1.148                  | 1.148                  | 0.718                   |        | 18.1         |                      |                  |  |
| Hotspot                                | LTE Band 25 | 20              | QPSK                 | A    | 0827M         | 1:1        | -0.01            | 1900.00         | 26390     | 0.0      | 19.0                    | 18.32                 | 100     | 0         | Bottom        | 10           | 99         | 1.020                  | 1.169                | 1.181                  | 1.181                  | 0.718                   |        | 18.2         |                      |                  |  |
| Hotspot                                | LTE Band 25 | 20              | QPSK                 | A    | 0738M         | 1:1        | -0.16            | 1900.00         | 26390     | 1.0      | 20.0                    | 18.36                 | 1       | 50        | Right         | 10           | 109        | 0.249                  | 1.159                | 0.077                  | 0.077                  | 0.036                   |        |              |                      |                  |  |
| Hotspot                                | LTE Band 25 | 20              | QPSK                 | A    | 0738M         | 1:1        | -0.02            | 1900.00         | 26390     | 0.0      | 19.0                    | 18.40                 | 1       | 50        | Right         | 10           | 109        | 0.347                  | 1.148                | 0.396                  | 0.396                  | 0.248                   |        |              |                      |                  |  |
| Hotspot                                | LTE Band 25 | 20              | QPSK                 | A    | 0824M         | 1:1        | 0.06             | 1900.00         | 26390     | 0.0      | 19.0                    | 18.36                 | 1       | 50        | Left          | 10           | 109        | 0.066                  | 1.159                | 0.065                  | 0.065                  | 0.041                   |        |              |                      |                  |  |
| Hotspot                                | LTE Band 25 | 20              | QPSK                 | A    | 0824M         | 1:1        | 0.02             | 1900.00         | 26390     | 0.0      | 19.0                    | 18.40                 | 50      | 50        | Left          | 10           | 109        | 0.099                  | 1.148                | 0.068                  | 0.068                  | 0.043                   |        |              |                      |                  |  |
| ANALYZE CRS 1.1902 - SAFETY UNIT       |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |            |                        |                      |                        |                        |                         |        |              |                      |                  |  |
| Spatial Peak                           |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |            | Body                   |                      |                        |                        |                         |        |              |                      |                  |  |
| Unintended Exposure/General Population |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |            | 1.6 W/kg (W/kg)        |                      |                        |                        |                         |        |              |                      |                  |  |
|                                        |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |            | averaged over 5 g/mg   |                      |                        |                        |                         |        |              |                      |                  |  |



## 12.11 LTE Band 41 Standalone SAR

Table 12-35

| Exposure                                 | Band / Mode | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Drift [dB] | Frequency [MHz] | Channel # | MPE [dB] | Max Allowed Power [dBm] | Conducted Power [dBm] | RB Size | RB Offset | Test Position | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio [1g SAR] | Port # | Plimit [dBm] | Overall Plimit [dBm] | RF5 Plimit [dBm] |
|------------------------------------------|-------------|-----------------|----------------------|------|---------------|------------|------------------|-----------------|-----------|----------|-------------------------|-----------------------|---------|-----------|---------------|--------------|------------------------|----------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|
| Head                                     | LTE Band 41 | 20              | QPSK                 | B    | 0820M         | 1:1.58     | -0.02            | 2506.00         | 39750     | 0.0      | 25.0                    | 24.65                 | 1       | 99        | Right Cheek   | 0            | 0.056                  | 1.084                | 0.061                  | 0.764                  | 0.478                   |        | 35.1         |                      | 34.0             |
| Head                                     | LTE Band 41 | 20              | QPSK                 | B    | 0820M         | 1:2.31     | 0.05             | 2506.00         | 39750     | 0.0      | 26.0                    | 25.18                 | 1       | 99        | Right Cheek   | 0            | 0.089                  | 1.208                | 0.047                  | 0.681                  | 0.426                   |        | 35.6         |                      |                  |
| Head                                     | LTE Band 41 | 20              | QPSK                 | B    | 0820M         | 1:1.58     | 0.00             | 2506.00         | 39750     | 1.0      | 24.0                    | 23.69                 | 50      | 50        | Right Cheek   | 0            | 0.044                  | 1.076                | 0.047                  | 0.751                  | 0.469                   |        | 35.2         |                      |                  |
| Head                                     | LTE Band 41 | 20              | QPSK                 | B    | 0820M         | 1:1.58     | 0.06             | 2506.00         | 39750     | 0.0      | 25.0                    | 24.65                 | 1       | 99        | Right Thr     | 0            | 0.025                  | 1.084                | 0.027                  | 0.341                  | 0.213                   |        | 38.6         |                      |                  |
| Head                                     | LTE Band 41 | 20              | QPSK                 | B    | 0820M         | 1:1.58     | 0.12             | 2506.00         | 39750     | 1.0      | 24.0                    | 23.58                 | 50      | 50        | Right Thr     | 0            | 0.019                  | 1.076                | 0.020                  | 0.324                  | 0.203                   |        | 38.9         |                      |                  |
| Head                                     | LTE Band 41 | 20              | QPSK                 | B    | 0820M         | 1:1.58     | 0.01             | 2506.00         | 39750     | 0.0      | 25.0                    | 24.65                 | 1       | 99        | Left Cheek    | 0            | 0.015                  | 1.084                | 0.011                  | 0.259                  | 0.182                   |        | 39.8         |                      |                  |
| Head                                     | LTE Band 41 | 20              | QPSK                 | B    | 0820M         | 1:1.58     | 0.07             | 2506.00         | 39750     | 1.0      | 24.0                    | 23.68                 | 50      | 50        | Left Cheek    | 0            | 0.023                  | 1.076                | 0.025                  | 0.392                  | 0.245                   |        | 38.0         |                      |                  |
| Head                                     | LTE Band 41 | 20              | QPSK                 | B    | 0820M         | 1:1.58     | 0.15             | 2506.00         | 39750     | 0.0      | 25.0                    | 24.65                 | 1       | 99        | Left Thr      | 0            | 0.021                  | 1.084                | 0.023                  | 0.287                  | 0.179                   |        | 39.4         |                      |                  |
| Head                                     | LTE Band 41 | 20              | QPSK                 | B    | 0820M         | 1:1.58     | 0.01             | 2506.00         | 39750     | 1.0      | 24.0                    | 23.68                 | 50      | 50        | Left Thr      | 0            | 0.013                  | 1.076                | 0.014                  | 0.222                  | 0.139                   |        | 40.3         |                      |                  |
| ANSI/IEEE C63.1 UN2 - SAFETY LIMIT       |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |                        | Head                 |                        |                        |                         |        |              |                      |                  |
| Spatial Peak                             |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |                        | 1.6 W/kg (mW/g)      |                        |                        |                         |        |              |                      |                  |
| Uncontrolled Exposure/General Population |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |                        | averaged over 1 gram |                        |                        |                         |        |              |                      |                  |

Note: Green entry represents HPUE measurement

Table 12-36

| Exposure                                 | Band / Mode | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Drift [dB] | Frequency [MHz] | Channel # | MPE [dB] | Max Allowed Power [dBm] | Conducted Power [dBm] | RB Size | RB Offset | Test Position | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio [1g SAR] | Port # | Plimit [dBm] | Overall Plimit [dBm] | RF5 Plimit [dBm] |
|------------------------------------------|-------------|-----------------|----------------------|------|---------------|------------|------------------|-----------------|-----------|----------|-------------------------|-----------------------|---------|-----------|---------------|--------------|------------------------|----------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|
| Head                                     | LTE Band 41 | 20              | QPSK                 | F    | 0829M         | 1:1.58     | -0.01            | 2506.00         | 39750     | 0.0      | 18.5                    | 17.84                 | 1       | 99        | Right Cheek   | 0            | 0.473                  | 1.164                | 0.551                  | 0.551                  | 0.344                   |        | 19.1         |                      |                  |
| Head                                     | LTE Band 41 | 20              | QPSK                 | F    | 0829M         | 1:1.58     | -0.02            | 2506.00         | 39750     | 0.0      | 18.5                    | 17.89                 | 50      | 50        | Right Cheek   | 0            | 0.496                  | 1.151                | 0.571                  | 0.571                  | 0.317                   |        | 18.9         |                      |                  |
| Head                                     | LTE Band 41 | 20              | QPSK                 | F    | 0829M         | 1:1.58     | 0.01             | 2506.00         | 39750     | 0.0      | 18.5                    | 17.84                 | 1       | 99        | Right Thr     | 0            | 0.486                  | 1.164                | 0.682                  | 0.682                  | 0.426                   |        | 18.1         |                      |                  |
| Head                                     | LTE Band 41 | 20              | QPSK                 | F    | 0829M         | 1:1.58     | 0.03             | 2549.50         | 40185     | 0.0      | 18.5                    | 17.67                 | 1       | 99        | Right Thr     | 0            | 0.528                  | 1.211                | 0.639                  | 0.639                  | 0.399                   |        | 18.4         |                      |                  |
| Head                                     | LTE Band 41 | 20              | QPSK                 | F    | 0829M         | 1:1.58     | -0.03            | 2593.00         | 40620     | 0.0      | 18.5                    | 17.80                 | 1       | 50        | Right Thr     | 0            | 0.584                  | 1.175                | 0.686                  | 0.686                  | 0.429                   |        | 18.1         |                      |                  |
| Head                                     | LTE Band 41 | 20              | QPSK                 | F    | 0829M         | 1:1.58     | 0.01             | 2638.50         | 41055     | 0.0      | 18.5                    | 17.73                 | 1       | 50        | Right Thr     | 0            | 0.698                  | 1.194                | 0.829                  | 0.829                  | 0.534                   |        | 17.3         |                      |                  |
| Head                                     | LTE Band 41 | 20              | QPSK                 | F    | 0829M         | 1:1.58     | -0.01            | 2680.00         | 41490     | 0.0      | 18.5                    | 17.77                 | 1       | 50        | Right Thr     | 0            | 0.867                  | 1.183                | 1.026                  | 1.026                  | 0.641                   |        | 16.4         |                      |                  |
| Head                                     | LTE Band 41 | 20              | QPSK                 | F    | 0829M         | 1:1.58     | 0.05             | 2506.00         | 39750     | 0.0      | 18.5                    | 17.89                 | 50      | 50        | Right Thr     | 0            | 0.606                  | 1.151                | 0.698                  | 0.698                  | 0.436                   |        | 18.0         |                      |                  |
| Head                                     | LTE Band 41 | 20              | QPSK                 | F    | 0829M         | 1:1.58     | 0.01             | 2549.50         | 40185     | 0.0      | 18.5                    | 17.75                 | 50      | 0         | Right Thr     | 0            | 0.557                  | 1.186                | 0.837                  | 0.837                  | 0.398                   |        | 18.4         |                      |                  |
| Head                                     | LTE Band 41 | 20              | QPSK                 | F    | 0829M         | 1:1.58     | 0.00             | 2593.00         | 40620     | 0.0      | 18.5                    | 17.82                 | 50      | 25        | Right Thr     | 0            | 0.585                  | 1.169                | 0.684                  | 0.684                  | 0.428                   |        | 18.1         |                      |                  |
| Head                                     | LTE Band 41 | 20              | QPSK                 | F    | 0829M         | 1:1.58     | 0.02             | 2638.50         | 41055     | 0.0      | 18.5                    | 17.76                 | 50      | 25        | Right Thr     | 0            | 0.707                  | 1.186                | 0.839                  | 0.839                  | 0.433                   |        | 17.9         |                      |                  |
| Head                                     | LTE Band 41 | 20              | QPSK                 | F    | 0829M         | 1:1.58     | -0.02            | 2680.00         | 41490     | 0.0      | 18.5                    | 17.81                 | 50      | 50        | Right Thr     | 0            | 0.897                  | 1.172                | 1.040                  | 1.040                  | 0.650                   |        | 16.3         |                      |                  |
| Head                                     | LTE Band 41 | 20              | QPSK                 | F    | 0829M         | 1:2.31     | 0.02             | 2680.00         | 41490     | 0.0      | 20.1                    | 18.52                 | 50      | 50        | Right Thr     | 0            | 0.916                  | 1.143                | 1.047                  | 1.047                  | 0.654                   | A31    | 16.2         |                      |                  |
| Head                                     | LTE Band 41 | 20              | QPSK                 | F    | 0829M         | 1:1.58     | -0.03            | 2506.00         | 39750     | 0.0      | 18.5                    | 17.83                 | 100     | 0         | Right Thr     | 0            | 0.621                  | 1.167                | 0.725                  | 0.725                  | 0.453                   |        | 17.9         |                      |                  |
| Head                                     | LTE Band 41 | 20              | QPSK                 | F    | 0829M         | 1:1.58     | -0.02            | 2506.00         | 39750     | 0.0      | 18.5                    | 17.84                 | 1       | 99        | Left Cheek    | 0            | 0.760                  | 1.164                | 0.803                  | 0.803                  | 0.389                   |        | 21.7         |                      |                  |
| Head                                     | LTE Band 41 | 20              | QPSK                 | F    | 0829M         | 1:1.58     | 0.04             | 2506.00         | 39750     | 0.0      | 18.5                    | 17.89                 | 50      | 50        | Left Cheek    | 0            | 0.720                  | 1.153                | 0.811                  | 0.811                  | 0.394                   |        | 21.5         |                      |                  |
| Head                                     | LTE Band 41 | 20              | QPSK                 | F    | 0829M         | 1:1.58     | -0.02            | 2506.00         | 39750     | 0.0      | 18.5                    | 17.84                 | 1       | 99        | Left Thr      | 0            | 0.779                  | 1.164                | 0.818                  | 0.818                  | 0.399                   |        | 21.4         |                      |                  |
| Head                                     | LTE Band 41 | 20              | QPSK                 | F    | 0829M         | 1:1.58     | 0.03             | 2506.00         | 39750     | 0.0      | 18.5                    | 17.89                 | 50      | 50        | Left Thr      | 0            | 0.794                  | 1.153                | 0.827                  | 0.827                  | 0.394                   |        | 21.3         |                      |                  |
| ANSI/IEEE C63.1 UN2 - SAFETY LIMIT       |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |                        | Head                 |                        |                        |                         |        |              |                      |                  |
| Spatial Peak                             |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |                        | 1.6 W/kg (mW/g)      |                        |                        |                         |        |              |                      |                  |
| Uncontrolled Exposure/General Population |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |                        | averaged over 1 gram |                        |                        |                         |        |              |                      |                  |

Note: Green entry represents HPUE measurement

Table 12-37

| Exposure                                 | Band / Mode | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Drift [dB] | Frequency [MHz] | Channel # | MPE [dB] | Max Allowed Power [dBm] | Conducted Power [dBm] | RB Size | RB Offset | Test Position | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio [1g SAR] | Port # | Plimit [dBm] | Overall Plimit [dBm] | RF5 Plimit [dBm] |
|------------------------------------------|-------------|-----------------|----------------------|------|---------------|------------|------------------|-----------------|-----------|----------|-------------------------|-----------------------|---------|-----------|---------------|--------------|------------------------|----------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|
| Body worn/Hotspot                        | LTE Band 41 | 20              | QPSK                 | B    | 0829M         | 1:1.58     | 0.00             | 2506.00         | 39750     | 0.0      | 22.0                    | 21.67                 | 1       | 99        | Back          | 10           | 0.368                  | 1.079                | 0.395                  | 0.395                  | 0.247                   | A32    | 24.0         |                      |                  |
| Body worn/Hotspot                        | LTE Band 41 | 20              | QPSK                 | B    | 0829M         | 1:1.58     | 0.01             | 2506.00         | 39750     | 0.0      | 22.0                    | 21.73                 | 50      | 50        | Back          | 10           | 0.382                  | 1.064                | 0.385                  | 0.385                  | 0.241                   |        | 24.1         |                      |                  |
| Hotspot                                  | LTE Band 41 | 20              | QPSK                 | B    | 0829M         | 1:1.58     | -0.01            | 2506.00         | 39750     | 0.0      | 22.0                    | 21.67                 | 1       | 89        | Front         | 10           | 0.389                  | 1.079                | 0.312                  | 0.312                  | 0.205                   |        | 25.0         |                      |                  |
| Hotspot                                  | LTE Band 41 | 20              | QPSK                 | B    | 0829M         | 1:1.58     | -0.03            | 2506.00         | 39750     | 0.0      | 22.0                    | 21.73                 | 50      | 50        | Front         | 10           | 0.387                  | 1.064                | 0.305                  | 0.305                  | 0.191                   |        | 25.1         |                      |                  |
| Hotspot                                  | LTE Band 41 | 20              | QPSK                 | B    | 0829M         | 1:1.58     | 0.00             | 2506.00         | 39750     | 0.0      | 22.0                    | 21.67                 | 1       | 99        | Bottom        | 10           | 0.392                  | 1.079                | 0.423                  | 0.423                  | 0.264                   |        | 23.7         |                      |                  |
| Hotspot                                  | LTE Band 41 | 20              | QPSK                 | B    | 0829M         | 1:1.58     | -0.01            | 2506.00         | 39750     | 0.0      | 22.0                    | 21.73                 | 50      | 50        | Bottom        | 10           | 0.390                  | 1.064                | 0.415                  | 0.415                  | 0.259                   |        | 23.8         |                      |                  |
| Hotspot                                  | LTE Band 41 | 20              | QPSK                 | B    | 0829M         | 1:1.58     | -0.09            | 2506.00         | 39750     | 0.0      | 22.0                    | 21.67                 | 1       | 99        | Right         | 10           | 0.400                  | 1.079                | 0.432                  | 0.432                  | 0.270                   |        | 23.6         |                      |                  |
| Hotspot                                  | LTE Band 41 | 20              | QPSK                 | B    | 0829M         | 1:2.31     | 0.02             | 2506.00         | 39750     | 0.0      | 23.6                    | 23.41                 | 1       | 99        | Right         | 10           | 0.398                  | 1.045                | 0.414                  | 0.414                  | 0.259                   |        | 23.8         |                      |                  |
| Hotspot                                  | LTE Band 41 | 20              | QPSK                 | B    | 0829M         | 1:1.58     | 0.00             | 2506.00         | 39750     | 0.0      | 22.0                    | 21.73                 | 50      | 50        | Right         | 10           | 0.397                  | 1.064                | 0.412                  | 0.412                  | 0.258                   |        | 23.8         |                      |                  |
| ANSI/IEEE C63.1 UN2 - SAFETY LIMIT       |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |                        | Body                 |                        |                        |                         |        |              |                      |                  |
| Spatial Peak                             |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |                        | 1.6 W/kg (mW/g)      |                        |                        |                         |        |              |                      |                  |
| Uncontrolled Exposure/General Population |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              |                        | averaged over 1 gram |                        |                        |                         |        |              |                      |                  |

Note: Green entry represents HPUE measurement

Table 12-38

| Exposure                                   | Band / Mode | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Drift [dB] | Frequency [MHz] | Channel # | MPE [dB] | Max Allowed Power [dBm] | Conducted Power [dBm] | RB Size | RB Offset | Test Position | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | Plimit [dBm] | Overall Plimit [dBm] | RF5 Plimit [dBm] |  |
|--------------------------------------------|-------------|-----------------|----------------------|------|---------------|------------|------------------|-----------------|-----------|----------|-------------------------|-----------------------|---------|-----------|---------------|--------------|------------------------|----------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|--|
| body worn/Hotspot                          | LTE Band 41 | 20              | QPSK                 | F    | 0829M         | 1:1.58     | -0.01            | 2506.00         | 39750     | 0.0      | 22.0                    | 21.40                 | 1       | 99        | Back          | 10           | 0.233                  | 1.148                | 0.267                  | 0.267                  | 0.167                   |        | 25.7         |                      |                  |  |
| body worn/Hotspot                          | LTE Band 41 | 20              | QPSK                 | F    | 0829M         | 1:1.58     | 0.01             | 2506.00         | 39750     | 0.0      | 22.0                    | 21.51                 | 50      | 50        | Back          | 10           | 0.263                  | 1.119                | 0.283                  | 0.283                  | 0.177                   |        | 25.4         |                      |                  |  |
| Hotspot                                    | LTE Band 41 | 20              | QPSK                 | F    | 0829M         | 1:1.58     | 0.02             | 2506.00         | 39750     | 0.0      | 22.0                    | 21.40                 | 1       | 89        | Front         | 10           | 0.238                  | 1.148                | 0.278                  | 0.278                  | 0.171                   |        | 25.6         |                      |                  |  |
| Hotspot                                    | LTE Band 41 | 20              | QPSK                 | F    | 0829M         | 1:1.58     | 0.00             | 2506.00         | 39750     | 0.0      | 22.0                    | 21.51                 | 50      | 50        | Front         | 10           | 0.250                  | 1.119                | 0.280                  | 0.280                  | 0.175                   |        | 25.5         |                      |                  |  |
| Hotspot                                    | LTE Band 41 | 20              | QPSK                 | F    | 0829M         | 1:1.58     | -0.01            | 2506.00         | 39750     | 0.0      | 22.0                    | 21.40                 | 1       | 99        | Top           | 10           | 0.425                  | 1.148                | 0.488                  | 0.488                  | 0.305                   | 31.3   | 23.0         |                      | 19.0             |  |
| Hotspot                                    | LTE Band 41 | 20              | QPSK                 | F    | 0829M         | 1:1.58     | 0.00             | 2506.00         | 39750     | 0.0      | 22.0                    | 21.51                 | 50      | 50        | Top           | 10           | 0.433                  | 1.148                | 0.501                  | 0.501                  | 0.313                   | 31.0   |              |                      |                  |  |
| Hotspot                                    | LTE Band 41 | 20              | QPSK                 | F    | 0829M         | 1:2.31     | 0.01             | 2506.00         | 39750     | 0.0      | 23.6                    | 23.23                 | 50      | 50        | Top           | 10           | 0.462                  | 1.089                | 0.492                  | 0.492                  | 0.308                   | A3.3   | 23.0         |                      |                  |  |
| Hotspot                                    | LTE Band 41 | 20              | QPSK                 | F    | 0829M         | 1:1.58     | 0.03             | 2506.00         | 39750     | 0.0      | 22.0                    | 21.40                 | 1       | 99        | Left          | 10           | 0.269                  | 1.148                | 0.088                  | 0.068                  | 0.068                   |        | 23.7         |                      |                  |  |
| Hotspot                                    | LTE Band 41 | 20              | QPSK                 | F    | 0829M         | 1:1.58     | 0.02             | 2506.00         | 39750     | 0.0      | 22.0                    | 21.51                 | 50      | 50        | Left          | 10           | 0.268                  | 1.119                | 0.065                  | 0.065                  | 0.061                   |        | 23.8         |                      |                  |  |
| ANULATED CW 1.0W - SAFETY LIMIT            |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              | Body                   |                      |                        |                        |                         |        |              |                      |                  |  |
| Spatial Peak                               |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              | 1.6 W/kg (m W/m)       |                      |                        |                        |                         |        |              |                      |                  |  |
| Unmodulated Frequency - General Population |             |                 |                      |      |               |            |                  |                 |           |          |                         |                       |         |           |               |              | Exceeded over 1.0 mm   |                      |                        |                        |                         |        |              |                      |                  |  |



## 12.12 NR Band n5 Standalone SAR

Table 12-39

| Exposure                              | Band / Mode | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Dfth [dB] | Frequency [MHz] | Channel # | Waveform   | MPE [dB] | Max Allowed Power [dBm] | Conducted Power [dBm] | RB Size | RB Offset | Test Position | Spacing [mm] | Tune state | Measured 1g SAR [W/kg] | Power Scaling Factor                     | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio [1g SAR] | Plot #               | Pinth [dBm] | Overall Pinth [dBm] | EFS Pinth [dBm] |
|---------------------------------------|-------------|-----------------|----------------------|------|---------------|------------|-----------------|-----------------|-----------|------------|----------|-------------------------|-----------------------|---------|-----------|---------------|--------------|------------|------------------------|------------------------------------------|------------------------|------------------------|-------------------------|----------------------|-------------|---------------------|-----------------|
| Head                                  | NR Band n5  | 20              | QPSK                 | A    | 0827M         | 1.1        | -0.02           | 836.50          | 167300    | DFT-s-OFDM | 0.0      | 25.0                    | 23.93                 | 1       | 53        | Right Cheek   | 0            | 0          | 0.082                  | 1.279                                    | 0.105                  | 0.339                  | 0.212                   |                      | 34.7        |                     |                 |
| Head                                  | NR Band n5  | 20              | QPSK                 | A    | 0827M         | 1.1        | -0.06           | 836.50          | 167300    | DFT-s-OFDM | 0.0      | 25.0                    | 23.81                 | 50      | 28        | Right Cheek   | 0            | 0          | 0.086                  | 1.309                                    | 0.113                  | 0.364                  | 0.220                   |                      | 34.4        |                     |                 |
| Head                                  | NR Band n5  | 20              | QPSK                 | A    | 0827M         | 1.1        | -0.21           | 836.50          | 167300    | CP-OFDM    | 1.5      | 23.5                    | 22.37                 | 1       | 1         | Right Cheek   | 0            | 0          | 0.076                  | 1.297                                    | 0.091                  | 0.415                  | 0.259                   |                      | 33.9        |                     |                 |
| Head                                  | NR Band n5  | 20              | QPSK                 | A    | 0827M         | 1.1        | -0.11           | 836.50          | 167300    | DFT-s-OFDM | 0.0      | 25.0                    | 23.85                 | 1       | 53        | Right Tit     | 0            | 0          | 0.085                  | 1.279                                    | 0.088                  | 0.219                  | 0.117                   |                      | 36.8        |                     |                 |
| Head                                  | NR Band n5  | 20              | QPSK                 | A    | 0827M         | 1.1        | -0.05           | 836.50          | 167300    | DFT-s-OFDM | 0.0      | 25.0                    | 23.81                 | 50      | 28        | Right Tit     | 0            | 0          | 0.085                  | 1.309                                    | 0.072                  | 0.233                  | 0.146                   |                      | 36.1        |                     |                 |
| Head                                  | NR Band n5  | 20              | QPSK                 | A    | 0827M         | 1.1        | 0.13            | 836.50          | 167300    | DFT-s-OFDM | 0.0      | 25.0                    | 23.93                 | 1       | 53        | Left Cheek    | 0            | 0          | 0.075                  | 1.279                                    | 0.096                  | 0.311                  | 0.194                   |                      | 35.1        |                     |                 |
| Head                                  | NR Band n5  | 20              | QPSK                 | A    | 0827M         | 1.1        | 0.05            | 836.50          | 167300    | DFT-s-OFDM | 0.0      | 25.0                    | 23.81                 | 50      | 28        | Left Cheek    | 0            | 0          | 0.081                  | 1.309                                    | 0.106                  | 0.343                  | 0.214                   |                      | 34.7        |                     |                 |
| Head                                  | NR Band n5  | 20              | QPSK                 | A    | 0827M         | 1.1        | -0.07           | 836.50          | 167300    | DFT-s-OFDM | 0.0      | 25.0                    | 23.81                 | 1       | 53        | Left Tit      | 0            | 0          | 0.084                  | 1.279                                    | 0.069                  | 0.224                  | 0.140                   |                      | 36.8        |                     |                 |
| Head                                  | NR Band n5  | 20              | QPSK                 | A    | 0827M         | 1.1        | -0.08           | 836.50          | 167300    | DFT-s-OFDM | 0.0      | 25.0                    | 23.83                 | 50      | 28        | Left Tit      | 0            | 0          | 0.088                  | 1.309                                    | 0.073                  | 0.237                  | 0.148                   |                      | 36.1        |                     |                 |
| ANSI/IEEE C63.1.1-1992 - SAFETY LIMIT |             |                 |                      |      |               |            |                 |                 |           |            |          |                         |                       |         |           |               |              |            |                        | Head                                     |                        | 1.6 W/kg (mW/g)        |                         | averaged over 1 gram |             |                     |                 |
| Spatial Peak                          |             |                 |                      |      |               |            |                 |                 |           |            |          |                         |                       |         |           |               |              |            |                        | Uncontrolled Exposure/General Population |                        |                        |                         |                      |             |                     |                 |

Table 12-40

| Exposure                              | Band / Mode | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Dfth [dB] | Frequency [MHz] | Channel # | Waveform   | MPE [dB] | Max Allowed Power [dBm] | Conducted Power [dBm] | RB Size | RB Offset | Test Position | Spacing [mm] | Tune state | Measured 1g SAR [W/kg] | Power Scaling Factor                     | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio [1g SAR] | Plot #               | Pinth [dBm] | Overall Pinth [dBm] | EFS Pinth [dBm] |
|---------------------------------------|-------------|-----------------|----------------------|------|---------------|------------|-----------------|-----------------|-----------|------------|----------|-------------------------|-----------------------|---------|-----------|---------------|--------------|------------|------------------------|------------------------------------------|------------------------|------------------------|-------------------------|----------------------|-------------|---------------------|-----------------|
| Head                                  | NR Band n5  | 20              | QPSK                 | E    | 0813M         | 1.1        | 0.05            | 836.50          | 167300    | DFT-s-OFDM | 0.0      | 22.0                    | 20.79                 | 1       | 53        | Right Cheek   | 0            | 0          | 0.092                  | 1.321                                    | 0.914                  | 0.914                  | 0.571                   |                      | 22.3        |                     |                 |
| Head                                  | NR Band n5  | 20              | QPSK                 | E    | 0813M         | 1.1        | 0.01            | 836.50          | 167300    | DFT-s-OFDM | 0.0      | 22.0                    | 20.73                 | 50      | 28        | Right Cheek   | 0            | 0          | 0.087                  | 1.340                                    | 0.934                  | 0.934                  | 0.584                   |                      | 22.2        |                     |                 |
| Head                                  | NR Band n5  | 20              | QPSK                 | E    | 0813M         | 1.1        | -0.01           | 836.50          | 167300    | DFT-s-OFDM | 0.0      | 22.0                    | 20.72                 | 100     | 0         | Right Cheek   | 0            | 0          | 0.084                  | 1.343                                    | 0.946                  | 0.946                  | 0.591                   |                      | 22.2        |                     |                 |
| Head                                  | NR Band n5  | 20              | QPSK                 | E    | 0813M         | 1.1        | 0.00            | 836.50          | 167300    | DFT-s-OFDM | 0.0      | 22.0                    | 20.78                 | 1       | 53        | Right Tit     | 0            | 0          | 0.083                  | 1.321                                    | 0.794                  | 0.794                  | 0.496                   |                      | 23.1        |                     |                 |
| Head                                  | NR Band n5  | 20              | QPSK                 | E    | 0813M         | 1.1        | 0.05            | 836.50          | 167300    | DFT-s-OFDM | 0.0      | 22.0                    | 20.73                 | 50      | 28        | Right Tit     | 0            | 0          | 0.086                  | 1.340                                    | 0.799                  | 0.799                  | 0.499                   |                      | 22.0        |                     |                 |
| Head                                  | NR Band n5  | 20              | QPSK                 | E    | 0813M         | 1.1        | -0.01           | 836.50          | 167300    | DFT-s-OFDM | 0.0      | 22.0                    | 20.79                 | 1       | 53        | Left Cheek    | 0            | 0          | 0.085                  | 1.321                                    | 1.044                  | 1.044                  | 0.653                   |                      | 21.3        |                     |                 |
| Head                                  | NR Band n5  | 20              | QPSK                 | E    | 0813M         | 1.1        | 0.01            | 836.50          | 167300    | DFT-s-OFDM | 0.0      | 22.0                    | 20.73                 | 50      | 28        | Left Cheek    | 0            | 0          | 0.080                  | 1.340                                    | 1.045                  | 1.045                  | 0.653                   |                      | 21.0        |                     |                 |
| Head                                  | NR Band n5  | 20              | QPSK                 | E    | 0813M         | 1.1        | -0.01           | 836.50          | 167300    | DFT-s-OFDM | 0.0      | 22.0                    | 20.72                 | 100     | 0         | Left Cheek    | 0            | 0          | 0.086                  | 1.343                                    | 1.037                  | 1.037                  | 0.786                   | A34                  | 21.0        |                     |                 |
| Head                                  | NR Band n5  | 20              | QPSK                 | E    | 0813M         | 1.1        | 0.05            | 836.50          | 167300    | CP-OFDM    | 0.0      | 22.0                    | 20.76                 | 1       | 1         | Left Cheek    | 0            | 0          | 0.065                  | 1.330                                    | 1.204                  | 1.204                  | 0.753                   |                      | 21.1        |                     |                 |
| Head                                  | NR Band n5  | 20              | QPSK                 | E    | 0813M         | 1.1        | 0.01            | 836.50          | 167300    | DFT-s-OFDM | 0.0      | 22.0                    | 20.79                 | 1       | 53        | Left Tit      | 0            | 0          | 0.082                  | 1.321                                    | 1.059                  | 1.059                  | 0.662                   |                      | 21.2        |                     |                 |
| Head                                  | NR Band n5  | 20              | QPSK                 | E    | 0813M         | 1.1        | 0.00            | 836.50          | 167300    | DFT-s-OFDM | 0.0      | 22.0                    | 20.73                 | 50      | 28        | Left Tit      | 0            | 0          | 0.082                  | 1.340                                    | 1.097                  | 1.097                  | 0.886                   |                      | 21.5        |                     |                 |
| Head                                  | NR Band n5  | 20              | QPSK                 | E    | 0813M         | 1.1        | 0.00            | 836.50          | 167300    | DFT-s-OFDM | 0.0      | 22.0                    | 20.72                 | 100     | 0         | Left Tit      | 0            | 0          | 0.088                  | 1.343                                    | 1.085                  | 1.085                  | 0.878                   |                      | 21.0        |                     |                 |
| ANSI/IEEE C63.1.1-1992 - SAFETY LIMIT |             |                 |                      |      |               |            |                 |                 |           |            |          |                         |                       |         |           |               |              |            |                        | Head                                     |                        | 1.6 W/kg (mW/g)        |                         | averaged over 1 gram |             |                     |                 |
| Spatial Peak                          |             |                 |                      |      |               |            |                 |                 |           |            |          |                         |                       |         |           |               |              |            |                        | Uncontrolled Exposure/General Population |                        |                        |                         |                      |             |                     |                 |

Note: Blue entry represents variability measurement

Table 12-41

| Exposure                              | Band / Mode | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Dfth [dB] | Frequency [MHz] | Channel # | Waveform   | MPE [dB] | Max Allowed Power [dBm] | Conducted Power [dBm] | RB Size | RB Offset | Test Position | Spacing [mm] | Tune state | Measured 1g SAR [W/kg] | Power Scaling Factor                     | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio [1g SAR] | Plot #               | Pinth [dBm] | Overall Pinth [dBm] | EFS Pinth [dBm] |
|---------------------------------------|-------------|-----------------|----------------------|------|---------------|------------|-----------------|-----------------|-----------|------------|----------|-------------------------|-----------------------|---------|-----------|---------------|--------------|------------|------------------------|------------------------------------------|------------------------|------------------------|-------------------------|----------------------|-------------|---------------------|-----------------|
| Body-worn/Hotspot                     | NR Band n5  | 20              | QPSK                 | A    | 0827M         | 1.1        | 0.02            | 836.50          | 167300    | DFT-s-OFDM | 0.0      | 25.0                    | 23.93                 | 1       | 53        | Back          | 10           | 10         | 0.397                  | 1.279                                    | 0.508                  | 0.625                  | 0.395                   |                      | 27.9        |                     |                 |
| Body-worn/Hotspot                     | NR Band n5  | 20              | QPSK                 | A    | 0827M         | 1.1        | -0.02           | 836.50          | 167300    | DFT-s-OFDM | 0.0      | 25.0                    | 23.81                 | 50      | 28        | Back          | 10           | 10         | 0.407                  | 1.309                                    | 0.533                  | 0.656                  | 0.400                   |                      | 27.7        |                     |                 |
| Body-worn/Hotspot                     | NR Band n5  | 20              | QPSK                 | A    | 0827M         | 1.1        | -0.18           | 836.50          | 167300    | CP-OFDM    | 1.5      | 23.5                    | 22.37                 | 1       | 1         | Back          | 10           | 10         | 0.273                  | 1.297                                    | 0.515                  | 0.613                  | 0.380                   |                      | 28.0        |                     |                 |
| Body-worn/Hotspot                     | NR Band n5  | 20              | QPSK                 | A    | 0827M         | 1.1        | -0.10           | 836.50          | 167300    | DFT-s-OFDM | 0.0      | 25.0                    | 23.83                 | 1       | 53        | Front         | 10           | 10         | 0.511                  | 1.279                                    | 0.772                  | 0.772                  | 0.305                   |                      | 30.0        |                     |                 |
| Hotspot                               | NR Band n5  | 20              | QPSK                 | A    | 0827M         | 1.1        | -0.09           | 836.50          | 167300    | DFT-s-OFDM | 0.0      | 25.0                    | 23.83                 | 50      | 28        | Front         | 10           | 10         | 0.509                  | 1.309                                    | 0.774                  | 0.774                  | 0.317                   |                      | 30.6        |                     |                 |
| Hotspot                               | NR Band n5  | 20              | QPSK                 | A    | 0827M         | 1.1        | -0.10           | 836.50          | 167300    | DFT-s-OFDM | 0.0      | 25.0                    | 23.81                 | 1       | 53        | Bottom        | 10           | 10         | 0.420                  | 1.279                                    | 0.513                  | 0.689                  | 0.118                   |                      | 33.1        |                     |                 |
| Hotspot                               | NR Band n5  | 20              | QPSK                 | A    | 0827M         | 1.1        | -0.02           | 836.50          | 167300    | DFT-s-OFDM | 0.0      | 25.0                    | 23.83                 | 50      | 28        | Bottom        | 10           | 10         | 0.418                  | 1.309                                    | 0.512                  | 0.687                  | 0.117                   |                      | 33.1        |                     |                 |
| Hotspot                               | NR Band n5  | 20              | QPSK                 | A    | 0827M         | 1.1        | -0.04           | 836.50          | 167300    | DFT-s-OFDM | 0.0      | 25.0                    | 23.81                 | 1       | 53        | Right         | 10           | 10         | 0.405                  | 1.279                                    | 0.605                  | 0.680                  | 0.095                   |                      | 36.8        |                     |                 |
| Hotspot                               | NR Band n5  | 20              | QPSK                 | A    | 0827M         | 1.1        | -0.12           | 836.50          | 167300    | DFT-s-OFDM | 0.0      | 25.0                    | 23.83                 | 50      | 28        | Right         | 10           | 10         | 0.509                  | 1.309                                    | 0.605                  | 0.681                  | 0.091                   |                      | 36.1        |                     |                 |
| Hotspot                               | NR Band n5  | 20              | QPSK                 | A    | 0827M         | 1.1        | 0.11            | 836.50          | 167300    | DFT-s-OFDM | 0.0      | 25.0                    | 23.93                 | 1       | 53        | Left          | 10           | 10         | 0.413                  | 1.279                                    | 0.417                  | 0.484                  | 0.121                   |                      | 33.0        |                     |                 |
| Hotspot                               | NR Band n5  | 20              | QPSK                 | A    | 0827M         | 1.1        | -0.08           | 836.50          | 167300    | DFT-s-OFDM | 0.0      | 25.0                    | 23.83                 | 50      | 28        | Left          | 10           | 10         | 0.421                  | 1.309                                    | 0.480                  | 0.497                  | 0.123                   |                      | 31.9        |                     |                 |
| ANSI/IEEE C63.1.1-1992 - SAFETY LIMIT |             |                 |                      |      |               |            |                 |                 |           |            |          |                         |                       |         |           |               |              |            |                        | Body                                     |                        | 1.6 W/kg (mW/g)        |                         | averaged over 1 gram |             |                     |                 |
| Spatial Peak                          |             |                 |                      |      |               |            |                 |                 |           |            |          |                         |                       |         |           |               |              |            |                        | Uncontrolled Exposure/General Population |                        |                        |                         |                      |             |                     |                 |

Table 12-42

| Exposure                                 | Band / Mode | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Dfth [dB] | Frequency [MHz] | Channel # | Waveform   | MPE [dB] | Max Allowed Power [dBm] | Conducted Power [dBm] | RB Size | RB Offset | Test Position | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio [1g SAR] | Plot # | Pinth [dBm] | Overall Pinth [dBm] | EFS Pinth [dBm] |
|------------------------------------------|-------------|-----------------|----------------------|------|---------------|------------|-----------------|-----------------|-----------|------------|----------|-------------------------|-----------------------|---------|-----------|---------------|--------------|------------------------|----------------------|------------------------|------------------------|-------------------------|--------|-------------|---------------------|-----------------|
| Body-worn/Hotspot                        | NR Band n5  | 20              | QPSK                 | E    | 0813M         | 1.1        | -0.06           | 836.50          | 167300    | DFT-s-OFDM | 0.0      | 25.0                    | 24.01                 | 1       | 104       | Back          | 10           | 0.463                  | 1.256                | 0.584                  | 0.825                  | 0.516                   | A35    | 27.9        |                     |                 |
| Body-worn/Hotspot                        | NR Band n5  | 20              | QPSK                 | E    | 0813M         | 1.1        | -0.11           | 836.50          | 167300    | DFT-s-OFDM | 0.0      | 25.0                    | 23.95                 | 50      | 28        | Back          | 10           | 0.451                  | 1.274                | 0.575                  | 0.811                  | 0.507                   |        | 27.4        |                     |                 |
| Hotspot                                  | NR Band n5  | 20              | QPSK                 | E    | 0813M         | 1.1        | 0.00            | 836.50          | 167300    | DFT-s-OFDM | 0.0      | 25.0                    | 24.01                 | 1       | 104       | Front         | 10           | 0.522                  | 1.256                | 0.656                  | 0.926                  | 0.579                   |        | 26.8        |                     |                 |
| Hotspot                                  | NR Band n5  | 20              | QPSK                 | E    | 0813M         | 1.1        | 0.02            | 836.50          | 167300    | DFT-s-OFDM | 0.0      | 25.0                    | 23.95                 | 50      | 28        | Front         | 10           | 0.525                  | 1.274                | 0.669                  | 0.944                  | 0.590                   |        | 26.7        |                     |                 |
| Hotspot                                  | NR Band n5  | 20              | QPSK                 | E    | 0813M         | 1.1        | -0.10           | 836.50          | 167300    | DFT-s-OFDM | 0.0      | 25.0                    | 24.01                 | 1       | 104       | Top           | 10           | 0.517                  | 1.256                | 0.700                  | 0.988                  | 0.618                   | A36    | 26.5        |                     |                 |
| Hotspot                                  | NR Band n5  | 20              | QPSK                 | E    | 0813M         | 1.1        | -0.04           | 836.50          | 167300    | DFT-s-OFDM | 0.0      | 25.0                    | 23.95                 | 50      | 28        | Top           | 10           | 0.544                  | 1.276                | 0.693                  | 0.979                  | 0.612                   |        | 26.5        |                     | 26.5            |
| Hotspot                                  | NR Band n5  | 20              | QPSK                 | E    | 0813M         | 1.1        | -0.06           | 836.50          | 167300    | CP-OFDM    | 1.5      | 23.5                    | 22.44                 | 1       | 1         | Top           | 10           | 0.359                  | 1.276                | 0.458                  | 0.914                  | 0.571                   |        | 26.0        |                     |                 |
| Hotspot                                  | NR Band n5  | 20              | QPSK                 | E    | 0813M         | 1.1        | -0.02           | 836.50          | 167300    | DFT-s-OFDM | 0.0      | 25.0                    | 24.01                 | 1       | 104       | Right         | 10           | 0.505                  | 1.256                | 0.468                  | 0.965                  | 0.447                   |        | 26.1        |                     |                 |
| Hotspot                                  | NR Band n5  | 20              | QPSK                 | E    | 0813M         | 1.1        | -0.04           | 836.50          | 167300    | DFT-s-OFDM | 0.0      | 25.0                    | 23.95                 | 50      | 28        | Right         | 10           | 0.482                  | 1.274                | 0.487                  | 0.987                  | 0.429                   |        | 26.1        |                     |                 |
| AMU/REX C81.1.1002 - SAFETY LIMIT        |             |                 |                      |      |               |            |                 |                 |           |            |          |                         |                       |         |           |               |              |                        |                      |                        |                        |                         |        |             |                     |                 |
| Spatial Peak                             |             |                 |                      |      |               |            |                 |                 |           |            |          | Body                    |                       |         |           |               |              |                        |                      |                        |                        |                         |        |             |                     |                 |
| Uncontrolled Exposure/General Population |             |                 |                      |      |               |            |                 |                 |           |            |          | 1.5 W/kg (mW/g)         |                       |         |           |               |              |                        |                      |                        |                        |                         |        |             |                     |                 |
|                                          |             |                 |                      |      |               |            |                 |                 |           |            |          | averaged over 1 gram    |                       |         |           |               |              |                        |                      |                        |                        |                         |        |             |                     |                 |



## 12.13 NR Band n66 Standalone SAR

Table 12-43

| Exposure                                 | Band / Mode | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Dft [dB] | Frequency [MHz] | Channel # | Waveform   | MPE [dB] | Max Allowed Power [dBm] | Conducted Power [dBm] | RB Size | RB Offset | Test Position | Spacing [mm] | Tune state | Measured 1g SAR [W/kg] | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | Pinch [dBm] | Overall Pinch [dBm] | EFS Pinch [dBm] |
|------------------------------------------|-------------|-----------------|----------------------|------|---------------|------------|----------------|-----------------|-----------|------------|----------|-------------------------|-----------------------|---------|-----------|---------------|--------------|------------|------------------------|----------------------|------------------------|------------------------|-------------------------|--------|-------------|---------------------|-----------------|
| Head                                     | NR Band n66 | 45              | QPSK                 | A    | 0744M         | 1:1        | -0.07          | 1745.00         | 349000    | DFT-s-OFDM | 0.0      | 24.0                    | 22.53                 | 1       | 240       | Right Cheek   | 0            | 99         | 0.085                  | 1.403                | 0.119                  | 0.671                  | 0.433                   |        | 33.2        |                     |                 |
|                                          | NR Band n66 | 45              | QPSK                 | A    | 0744M         | 1:1        | -0.02          | 1745.00         | 349000    | DFT-s-OFDM | 0.0      | 24.0                    | 22.48                 | 120     | 0         | Right Cheek   | 0            | 99         | 0.074                  | 1.419                | 0.105                  | 0.593                  | 0.387                   |        | 33.7        |                     |                 |
|                                          | NR Band n66 | 45              | QPSK                 | A    | 0744M         | 1:1        | 0.36           | 1745.00         | 349000    | CP-OFDM    | 1.5      | 22.5                    | 21.97                 | 1       | 1         | Right Cheek   | 0            | 100        | 0.056                  | 1.390                | 0.078                  | 0.618                  | 0.386                   |        | 33.5        |                     |                 |
|                                          | NR Band n66 | 45              | QPSK                 | A    | 0744M         | 1:1        | 0.02           | 1745.00         | 349000    | DFT-s-OFDM | 0.0      | 24.0                    | 22.53                 | 1       | 240       | Right Tilt    | 0            | 99         | 0.085                  | 1.403                | 0.045                  | 0.245                  | 0.155                   |        | 37.9        |                     |                 |
|                                          | NR Band n66 | 45              | QPSK                 | A    | 0744M         | 1:1        | 0.17           | 1745.00         | 349000    | DFT-s-OFDM | 0.0      | 24.0                    | 22.48                 | 120     | 0         | Right Tilt    | 0            | 99         | 0.066                  | 1.419                | 0.065                  | 0.387                  | 0.229                   |        | 35.1        |                     |                 |
|                                          | NR Band n66 | 45              | QPSK                 | A    | 0744M         | 1:1        | -0.18          | 1745.00         | 349000    | DFT-s-OFDM | 0.0      | 24.0                    | 22.53                 | 1       | 240       | Left Cheek    | 0            | 99         | 0.043                  | 1.403                | 0.060                  | 0.339                  | 0.212                   |        | 36.1        |                     |                 |
|                                          | NR Band n66 | 45              | QPSK                 | A    | 0744M         | 1:1        | -0.14          | 1745.00         | 349000    | DFT-s-OFDM | 0.0      | 24.0                    | 22.48                 | 120     | 0         | Left Cheek    | 0            | 99         | 0.051                  | 1.419                | 0.047                  | 0.353                  | 0.164                   |        | 37.2        |                     |                 |
|                                          | NR Band n66 | 45              | QPSK                 | A    | 0744M         | 1:1        | -0.09          | 1745.00         | 349000    | DFT-s-OFDM | 0.0      | 24.0                    | 22.53                 | 1       | 240       | Left Tilt     | 0            | 99         | 0.059                  | 1.403                | 0.055                  | 0.328                  | 0.193                   |        | 36.9        |                     |                 |
|                                          | NR Band n66 | 45              | QPSK                 | A    | 0744M         | 1:1        | 0.08           | 1745.00         | 349000    | DFT-s-OFDM | 0.0      | 24.0                    | 22.48                 | 120     | 0         | Left Tilt     | 0            | 99         | 0.038                  | 1.419                | 0.055                  | 0.311                  | 0.194                   |        | 36.5        |                     |                 |
| ANSI/IEEE C63.1992- SAFETY LIMIT         |             |                 |                      |      |               |            |                |                 |           |            |          |                         |                       |         |           |               |              |            |                        | Head                 |                        |                        |                         |        |             |                     |                 |
| Spatial Peak                             |             |                 |                      |      |               |            |                |                 |           |            |          |                         |                       |         |           |               |              |            |                        | 1.6 W/kg (mW/g)      |                        |                        |                         |        |             |                     |                 |
| Uncontrolled Exposure/General Population |             |                 |                      |      |               |            |                |                 |           |            |          |                         |                       |         |           |               |              |            |                        | averaged over 1 gram |                        |                        |                         |        |             |                     |                 |

Table 12-44

| Exposure                                                                                         | Band / Mode | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Dft [dB] | Frequency [MHz] | Channel # | Waveform   | MPE [dB] | Max Allowed Power [dBm] | Conducted Power [dBm] | RB Size | RB Offset | Test Position | Spacing [mm] | Tune state | Measured 1g SAR [W/kg] | Power Scaling Factor                            | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | Pinch [dBm] | Overall Pinch [dBm] | EFS Pinch [dBm] |
|--------------------------------------------------------------------------------------------------|-------------|-----------------|----------------------|------|---------------|------------|----------------|-----------------|-----------|------------|----------|-------------------------|-----------------------|---------|-----------|---------------|--------------|------------|------------------------|-------------------------------------------------|------------------------|------------------------|-------------------------|--------|-------------|---------------------|-----------------|
| Head                                                                                             | NR Band n66 | 45              | QPSK                 | F    | 0744M         | 1:1        | 0.00           | 1745.00         | 349000    | DFT-s-OFDM | 0.0      | 19.5                    | 17.88                 | 1       | 123       | Right Cheek   | 0            | 0          | 0.083                  | 1.419                                           | 0.909                  | 0.909                  | 0.906                   |        | 19.6        |                     |                 |
| Head                                                                                             | NR Band n66 | 45              | QPSK                 | F    | 0744M         | 1:1        | 0.01           | 1745.00         | 349000    | DFT-s-OFDM | 0.0      | 19.5                    | 17.88                 | 120     | 0         | Right Cheek   | 0            | 0          | 0.080                  | 1.419                                           | 0.979                  | 0.979                  | 0.912                   |        | 19.5        |                     |                 |
| Head                                                                                             | NR Band n66 | 45              | QPSK                 | F    | 0744M         | 1:1        | 0.01           | 1745.00         | 349000    | DFT-s-OFDM | 0.0      | 19.5                    | 17.89                 | 240     | 0         | Right Cheek   | 0            | 0          | 0.101                  | 1.419                                           | 1.006                  | 1.006                  | 0.929                   |        | 19.4        |                     |                 |
| Head                                                                                             | NR Band n66 | 45              | QPSK                 | F    | 0744M         | 1:1        | -0.03          | 1745.00         | 349000    | DFT-s-OFDM | 0.0      | 19.5                    | 17.88                 | 1       | 123       | Right Tilt    | 0            | 0          | 0.097                  | 1.419                                           | 0.989                  | 0.989                  | 0.918                   |        | 19.1        |                     |                 |
| Head                                                                                             | NR Band n66 | 45              | QPSK                 | F    | 0744M         | 1:1        | -0.02          | 1745.00         | 349000    | DFT-s-OFDM | 0.0      | 19.5                    | 17.88                 | 120     | 0         | Right Tilt    | 0            | 0          | 0.109                  | 1.419                                           | 1.006                  | 1.006                  | 0.929                   | A37    | 19.4        |                     |                 |
| Head                                                                                             | NR Band n66 | 45              | QPSK                 | F    | 0744M         | 1:1        | -0.02          | 1745.00         | 349000    | DFT-s-OFDM | 0.0      | 19.5                    | 17.89                 | 240     | 0         | Right Tilt    | 0            | 0          | 0.103                  | 1.419                                           | 1.009                  | 1.009                  | 0.931                   |        | 19.2        |                     |                 |
| Head                                                                                             | NR Band n66 | 45              | QPSK                 | F    | 0744M         | 1:1        | -0.02          | 1745.00         | 349000    | CP-OFDM    | 0.0      | 19.5                    | 17.89                 | 1       | 1         | Right Tilt    | 0            | 0          | 0.082                  | 1.419                                           | 0.956                  | 0.956                  | 0.904                   |        | 19.6        |                     |                 |
| Head                                                                                             | NR Band n66 | 45              | QPSK                 | F    | 0827M         | 1:1        | -0.04          | 1745.00         | 349000    | DFT-s-OFDM | 0.0      | 19.5                    | 17.88                 | 1       | 123       | Left Cheek    | 0            | 0          | 0.170                  | 1.419                                           | 0.667                  | 0.667                  | 0.417                   |        | 21.2        |                     |                 |
| Head                                                                                             | NR Band n66 | 45              | QPSK                 | F    | 0827M         | 1:1        | -0.05          | 1745.00         | 349000    | DFT-s-OFDM | 0.0      | 19.5                    | 17.88                 | 120     | 0         | Left Cheek    | 0            | 0          | 0.163                  | 1.419                                           | 0.657                  | 0.657                  | 0.411                   |        | 21.1        |                     |                 |
| Head                                                                                             | NR Band n66 | 45              | QPSK                 | F    | 0827M         | 1:1        | 0.08           | 1745.00         | 349000    | DFT-s-OFDM | 0.0      | 19.5                    | 17.88                 | 1       | 123       | Left Tilt     | 0            | 0          | 0.176                  | 1.419                                           | 0.817                  | 0.817                  | 0.511                   |        | 20.3        |                     |                 |
| Head                                                                                             | NR Band n66 | 45              | QPSK                 | F    | 0827M         | 1:1        | -0.02          | 1745.00         | 349000    | DFT-s-OFDM | 0.0      | 19.5                    | 17.89                 | 120     | 0         | Left Tilt     | 0            | 0          | 0.185                  | 1.419                                           | 0.830                  | 0.830                  | 0.519                   |        | 20.3        |                     |                 |
| Head                                                                                             | NR Band n66 | 45              | QPSK                 | F    | 0827M         | 1:1        | -0.01          | 1745.00         | 349000    | DFT-s-OFDM | 0.0      | 19.5                    | 17.93                 | 240     | 0         | Left Tilt     | 0            | 0          | 0.159                  | 1.419                                           | 0.802                  | 0.802                  | 0.501                   |        | 20.4        |                     |                 |
| ANSI/IEEE C63.19-2002 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |             |                 |                      |      |               |            |                |                 |           |            |          |                         |                       |         |           |               |              |            |                        | Head<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |                        |                        |                         |        |             |                     |                 |

Table 12-45

| Exposure                                                                                         | Band / Mode | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Dft [dB] | Frequency [MHz] | Channel # | Waveform   | MPE [dB] | Max Allowed Power [dBm] | Conducted Power [dBm] | RB Size | RB Offset | Test Position | Spacing [mm] | Tune state | Measured 1g SAR [W/kg] | Power Scaling Factor                            | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | Pinch [dBm] | Overall Pinch [dBm] | EFS Pinch [dBm] |
|--------------------------------------------------------------------------------------------------|-------------|-----------------|----------------------|------|---------------|------------|----------------|-----------------|-----------|------------|----------|-------------------------|-----------------------|---------|-----------|---------------|--------------|------------|------------------------|-------------------------------------------------|------------------------|------------------------|-------------------------|--------|-------------|---------------------|-----------------|
| Body-worn/Hotspot                                                                                | NR Band n66 | 45              | QPSK                 | A    | 0744M         | 1:1        | -0.08          | 1745.00         | 349000    | DFT-s-OFDM | 0.0      | 20.0                    | 19.15                 | 1       | 240       | Back          | 10           | 99         | 0.041                  | 1.216                                           | 0.779                  | 0.779                  | 0.487                   | A38    | 21.0        |                     |                 |
| Body-worn/Hotspot                                                                                | NR Band n66 | 45              | QPSK                 | A    | 0744M         | 1:1        | 0.02           | 1745.00         | 349000    | DFT-s-OFDM | 0.0      | 20.0                    | 19.05                 | 120     | 0         | Back          | 10           | 99         | 0.040                  | 1.245                                           | 0.884                  | 0.884                  | 0.428                   |        | 21.6        |                     |                 |
| Hotspot                                                                                          | NR Band n66 | 45              | QPSK                 | A    | 0744M         | 1:1        | -0.02          | 1745.00         | 349000    | DFT-s-OFDM | 0.0      | 20.0                    | 19.15                 | 1       | 240       | Front         | 10           | 99         | 0.043                  | 1.216                                           | 0.739                  | 0.739                  | 0.397                   |        | 22.6        |                     |                 |
| Hotspot                                                                                          | NR Band n66 | 45              | QPSK                 | A    | 0744M         | 1:1        | 0.03           | 1745.00         | 349000    | DFT-s-OFDM | 0.0      | 20.0                    | 19.05                 | 120     | 0         | Front         | 10           | 99         | 0.039                  | 1.245                                           | 0.846                  | 0.846                  | 0.436                   |        | 23.0        |                     |                 |
| Hotspot                                                                                          | NR Band n66 | 45              | QPSK                 | A    | 0744M         | 1:1        | -0.01          | 1745.00         | 349000    | DFT-s-OFDM | 0.0      | 20.0                    | 19.15                 | 1       | 240       | Bottom        | 10           | 27         | 0.021                  | 1.216                                           | 0.989                  | 0.989                  | 0.569                   | A39    | 20.9        |                     |                 |
| Hotspot                                                                                          | NR Band n66 | 45              | QPSK                 | A    | 0744M         | 1:1        | -0.05          | 1745.00         | 349000    | DFT-s-OFDM | 0.0      | 20.0                    | 19.05                 | 120     | 0         | Bottom        | 10           | 27         | 0.000                  | 1.245                                           | 0.996                  | 0.996                  | 0.621                   |        | 20.9        |                     |                 |
| Hotspot                                                                                          | NR Band n66 | 45              | QPSK                 | A    | 0744M         | 1:1        | 0.01           | 1745.00         | 349000    | DFT-s-OFDM | 0.0      | 20.0                    | 19.05                 | 240     | 0         | Bottom        | 10           | 27         | 0.021                  | 1.274                                           | 1.020                  | 1.020                  | 0.638                   |        | 19.9        |                     | 19.0            |
| Hotspot                                                                                          | NR Band n66 | 45              | QPSK                 | A    | 0744M         | 1:1        | -0.11          | 1745.00         | 349000    | CP-OFDM    | 0.0      | 20.0                    | 19.19                 | 1       | 1         | Bottom        | 10           | 27         | 0.792                  | 1.205                                           | 0.942                  | 0.942                  | 0.589                   |        | 20.7        |                     |                 |
| Hotspot                                                                                          | NR Band n66 | 45              | QPSK                 | A    | 0824M         | 1:1        | -0.01          | 1745.00         | 349000    | DFT-s-OFDM | 0.0      | 20.0                    | 19.15                 | 1       | 240       | Right         | 10           | 27         | 0.020                  | 1.216                                           | 0.985                  | 0.985                  | 0.593                   |        | 30.6        |                     |                 |
| Hotspot                                                                                          | NR Band n66 | 45              | QPSK                 | A    | 0824M         | 1:1        | 0.06           | 1745.00         | 349000    | DFT-s-OFDM | 0.0      | 20.0                    | 19.05                 | 120     | 0         | Right         | 10           | 27         | 0.001                  | 1.245                                           | 0.976                  | 0.976                  | 0.598                   |        | 31.1        |                     |                 |
| Hotspot                                                                                          | NR Band n66 | 45              | QPSK                 | A    | 0074M         | 1:1        | -0.11          | 1745.00         | 349000    | DFT-s-OFDM | 0.0      | 20.0                    | 19.15                 | 1       | 240       | Left          | 10           | 27         | 0.001                  | 1.216                                           | 0.962                  | 0.962                  | 0.599                   |        | 32.0        |                     |                 |
| Hotspot                                                                                          | NR Band n66 | 45              | QPSK                 | A    | 0074M         | 1:1        | -0.13          | 1745.00         | 349000    | DFT-s-OFDM | 0.0      | 20.0                    | 19.05                 | 120     | 0         | Left          | 10           | 27         | 0.003                  | 1.245                                           | 0.966                  | 0.966                  | 0.641                   |        | 31.8        |                     |                 |
| ANSI/IEEE C63.19-2002 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |             |                 |                      |      |               |            |                |                 |           |            |          |                         |                       |         |           |               |              |            |                        | Body<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |                        |                        |                         |        |             |                     |                 |

Table 12-46

| Exposure                                 | Band / Mode | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Dft [dB] | Frequency [MHz] | Channel # | Waveform   | MPE [dB] | Max Allowed Power [dBm] | Conducted Power [dBm] | RB Size | RB Offset | Test Position | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | Pinch [dBm] | Overall Pinch [dBm] | EFS Pinch [dBm] |  |  |  |
|------------------------------------------|-------------|-----------------|----------------------|------|---------------|------------|----------------|-----------------|-----------|------------|----------|-------------------------|-----------------------|---------|-----------|---------------|--------------|------------------------|----------------------|------------------------|------------------------|-------------------------|--------|-------------|---------------------|-----------------|--|--|--|
| Body-worn/Hotspot                        | NR Band n66 | 45              | QPSK                 | F    | 0824M         | 1:1        | -0.03          | 1745.00         | 349000    | DFT-s-OFDM | 0.0      | 22.0                    | 20.83                 | 1       | 1         | Back          | 10           | 0.204                  | 1.309                | 0.267                  | 0.267                  | 0.167                   |        | 27.2        |                     |                 |  |  |  |
| Body-worn/Hotspot                        | NR Band n66 | 45              | QPSK                 | F    | 0824M         | 1:1        | -0.02          | 1745.00         | 349000    | DFT-s-OFDM | 0.0      | 22.0                    | 20.75                 | 120     | 0         | Back          | 10           | 0.211                  | 1.334                | 0.281                  | 0.281                  | 0.176                   |        | 27.5        |                     |                 |  |  |  |
| Hotspot                                  | NR Band n66 | 45              | QPSK                 | F    | 0824M         | 1:1        | -0.04          | 1745.00         | 349000    | DFT-s-OFDM | 0.0      | 22.0                    | 20.83                 | 1       | 1         | Front         | 10           | 0.186                  | 1.309                | 0.243                  | 0.243                  | 0.152                   |        | 28.1        |                     |                 |  |  |  |
| Hotspot                                  | NR Band n66 | 45              | QPSK                 | F    | 0824M         | 1:1        | -0.03          | 1745.00         | 349000    | DFT-s-OFDM | 0.0      | 22.0                    | 20.75                 | 120     | 0         | Front         | 10           | 0.181                  | 1.334                | 0.241                  | 0.241                  | 0.151                   |        | 28.1        |                     |                 |  |  |  |
| Hotspot                                  | NR Band n66 | 45              | QPSK                 | F    | 0824M         | 1:1        | -0.02          | 1745.00         | 349000    | DFT-s-OFDM | 0.0      | 22.0                    | 20.83                 | 1       | 1         | Top           | 10           | 0.305                  | 1.309                | 0.661                  | 0.661                  | 0.413                   |        | 23.7        | 23.5                |                 |  |  |  |
| Hotspot                                  | NR Band n66 | 45              | QPSK                 | F    | 0824M         | 1:1        | 0.00           | 1745.00         | 349000    | DFT-s-OFDM | 0.0      | 22.0                    | 20.75                 | 120     | 0         | Top           | 10           | 0.304                  | 1.334                | 0.672                  | 0.672                  | 0.420                   |        | 23.7        | 23.5                |                 |  |  |  |
| Hotspot                                  | NR Band n66 | 45              | QPSK                 | F    | 0824M         | 1:1        | 0.07           | 1745.00         | 349000    | CP-OFDM    | 0.0      | 22.0                    | 20.82                 | 1       | 1         | Top           | 10           | 0.329                  | 1.312                | 0.694                  | 0.694                  | 0.434                   |        | 23.5        |                     |                 |  |  |  |
| Hotspot                                  | NR Band n66 | 45              | QPSK                 | F    | 0824M         | 1:1        | -0.07          | 1745.00         | 349000    | DFT-s-OFDM | 0.0      | 22.0                    | 20.83                 | 1       | 1         | Left          | 10           | 0.126                  | 1.309                | 0.165                  | 0.165                  | 0.103                   |        | 29.9        |                     |                 |  |  |  |
| Hotspot                                  | NR Band n66 | 45              | QPSK                 | F    | 0824M         | 1:1        | 0.01           | 1745.00         | 349000    | DFT-s-OFDM | 0.0      | 22.0                    | 20.75                 | 120     | 0         | Left          | 10           | 0.129                  | 1.334                | 0.172                  | 0.172                  | 0.108                   |        | 29.6        |                     |                 |  |  |  |
| ANSI/IEEE C63.19-2002 - SAFETY LIMIT     |             |                 |                      |      |               |            |                |                 |           |            |          |                         |                       |         |           |               |              |                        |                      | Body                   |                        |                         |        |             |                     |                 |  |  |  |
| Uncontrolled Exposure/General Population |             |                 |                      |      |               |            |                |                 |           |            |          |                         |                       |         |           |               |              |                        |                      | Spatial Peak           |                        |                         |        |             |                     |                 |  |  |  |
|                                          |             |                 |                      |      |               |            |                |                 |           |            |          |                         |                       |         |           |               |              |                        |                      | 1.6 W/kg (mW/g)        |                        |                         |        |             |                     |                 |  |  |  |
|                                          |             |                 |                      |      |               |            |                |                 |           |            |          |                         |                       |         |           |               |              |                        |                      | averaged over 1 gram   |                        |                         |        |             |                     |                 |  |  |  |

|                                             |                                |                                   |
|---------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: A3LSMS938B                          | RF EXPOSURE PART 1 TEST REPORT | Approved by:<br>Technical Manager |
| Document S/N:<br>1M2408260069-01.A3L (Rev1) | DUT Type:<br>Portable Handset  | Page 100 of 131                   |

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## 12.14 NR Band n25 Standalone SAR

Table 12-47

| Exposure                                | Band / Mode | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Dft [dB] | Frequency [MHz] | Channel # | Waveform   | MPR [dB] | Max Allowed Power [dBm] | Conducted Power [dBm] | RB Size | RB Offset | Test Position | Spacing [mm] | Tune state | Measured 1g SAR [W/kg] | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | Plmit [dBm] | Overall Plmit [dBm] | EFS Plmit [dBm] |
|-----------------------------------------|-------------|-----------------|----------------------|------|---------------|------------|----------------|-----------------|-----------|------------|----------|-------------------------|-----------------------|---------|-----------|---------------|--------------|------------|------------------------|----------------------|------------------------|------------------------|-------------------------|--------|-------------|---------------------|-----------------|
| Head                                    | NR Band n25 | 40              | QPSK                 | A    | 0744M         | 1.1        | 0.04           | 1882.50         | 376500    | DFT-s-OFDM | 0.0      | 23.5                    | 22.78                 | 1       | 1         | Right Cheek   | 0            | 108        | 0.006                  | 1.180                | 0.113                  | 0.393                  | 0.246                   | 32.9   | 32.5        | 28.9                |                 |
| Head                                    | NR Band n25 | 40              | QPSK                 | A    | 0744M         | 1.1        | 0.02           | 1882.50         | 376500    | DFT-s-OFDM | 0.0      | 23.5                    | 22.68                 | 108     | 54        | Right Cheek   | 0            | 108        | 0.002                  | 1.208                | 0.123                  | 0.427                  | 0.267                   | 32.5   |             |                     |                 |
| Head                                    | NR Band n25 | 40              | QPSK                 | A    | 0744M         | 1.1        | 0.04           | 1882.50         | 376500    | CP-OFDM    | 1.5      | 22.0                    | 21.26                 | 1       | 1         | Right Cheek   | 0            | 108        | 0.005                  | 1.186                | 0.077                  | 0.378                  | 0.236                   | 33.1   |             |                     |                 |
| Head                                    | NR Band n25 | 40              | QPSK                 | A    | 0744M         | 1.1        | -0.06          | 1882.50         | 376500    | DFT-s-OFDM | 0.0      | 23.5                    | 22.78                 | 1       | 1         | Right Tit     | 0            | 108        | 0.005                  | 1.180                | 0.060                  | 0.299                  | 0.151                   | 35.7   |             |                     |                 |
| Head                                    | NR Band n25 | 40              | QPSK                 | A    | 0744M         | 1.1        | -0.38          | 1882.50         | 376500    | DFT-s-OFDM | 0.0      | 23.5                    | 22.68                 | 108     | 54        | Right Tit     | 0            | 108        | 0.005                  | 1.208                | 0.039                  | 0.134                  | 0.084                   | 37.6   |             |                     |                 |
| Head                                    | NR Band n25 | 40              | QPSK                 | A    | 0744M         | 1.1        | 0.06           | 1882.50         | 376500    | DFT-s-OFDM | 0.0      | 23.5                    | 22.78                 | 1       | 1         | Left Cheek    | 0            | 108        | 0.006                  | 1.180                | 0.078                  | 0.270                  | 0.189                   | 34.5   |             |                     |                 |
| Head                                    | NR Band n25 | 40              | QPSK                 | A    | 0744M         | 1.1        | 0.01           | 1882.50         | 376500    | DFT-s-OFDM | 0.0      | 23.5                    | 22.68                 | 108     | 54        | Left Cheek    | 0            | 108        | 0.005                  | 1.208                | 0.103                  | 0.356                  | 0.223                   | 33.3   |             |                     |                 |
| Head                                    | NR Band n25 | 40              | QPSK                 | A    | 0744M         | 1.1        | 0.03           | 1882.50         | 376500    | DFT-s-OFDM | 0.0      | 23.5                    | 22.78                 | 1       | 1         | Left Tit      | 0            | 108        | 0.009                  | 1.180                | 0.070                  | 0.241                  | 0.151                   | 35.0   |             |                     |                 |
| Head                                    | NR Band n25 | 40              | QPSK                 | A    | 0744M         | 1.1        | -0.15          | 1882.50         | 376500    | DFT-s-OFDM | 0.0      | 23.5                    | 22.68                 | 108     | 54        | Left Tit      | 0            | 108        | 0.002                  | 1.208                | 0.075                  | 0.260                  | 0.163                   | 34.7   |             |                     |                 |
| UNCLASSIFIED ORS 13992 - SAFETY LIMIT   |             |                 |                      |      |               |            |                |                 |           |            |          |                         |                       |         |           |               |              |            | Head                   |                      |                        |                        |                         |        |             |                     |                 |
| Spatial Peak                            |             |                 |                      |      |               |            |                |                 |           |            |          |                         |                       |         |           |               |              |            | 1.6 W/kg (mW/g)        |                      |                        |                        |                         |        |             |                     |                 |
| Annualized Exposure (Safety Population) |             |                 |                      |      |               |            |                |                 |           |            |          |                         |                       |         |           |               |              |            | averaged over 1 gram   |                      |                        |                        |                         |        |             |                     |                 |

Table 12-48

| Exposure                               | Band / Mode | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Dft [dB] | Frequency [MHz] | Channel # | Waveform   | MPR [dB] | Max Allowed Power [dBm] | Conducted Power [dBm] | RB Size | RB Offset | Test Position | Spacing [mm] | Tune state | Measured 1g SAR [W/kg]                  | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | Plmit [dBm] | Overall Plmit [dBm] | EFS Plmit [dBm] |
|----------------------------------------|-------------|-----------------|----------------------|------|---------------|------------|----------------|-----------------|-----------|------------|----------|-------------------------|-----------------------|---------|-----------|---------------|--------------|------------|-----------------------------------------|----------------------|------------------------|------------------------|-------------------------|--------|-------------|---------------------|-----------------|
| Head                                   | NR Band n25 | 40              | QPSK                 | F    | 0744M         | 1.1        | -0.01          | 1882.50         | 376500    | DFT-s-OFDM | 0.0      | 20.0                    | 18.90                 | 1       | 214       | Right Cheek   | 0            | 99         | 0.720                                   | 1.288                | 0.914                  | 0.914                  | 0.571                   | 20.1   | 19.8        | 19.0                |                 |
| Head                                   | NR Band n25 | 40              | QPSK                 | F    | 0744M         | 1.1        | 0.01           | 1882.50         | 376500    | DFT-s-OFDM | 0.0      | 20.0                    | 18.72                 | 108     | 54        | Right Cheek   | 0            | 99         | 0.786                                   | 1.343                | 0.988                  | 0.988                  | 0.618                   | 20.0   |             |                     |                 |
| Head                                   | NR Band n25 | 40              | QPSK                 | F    | 0744M         | 1.1        | 0.01           | 1882.50         | 376500    | DFT-s-OFDM | 0.0      | 20.0                    | 18.84                 | 216     | 0         | Right Cheek   | 0            | 99         | 0.789                                   | 1.308                | 0.999                  | 0.999                  | 0.624                   | 20.0   |             |                     |                 |
| Head                                   | NR Band n25 | 40              | QPSK                 | F    | 0744M         | 1.1        | 0.00           | 1882.50         | 376500    | CP-OFDM    | 0.0      | 20.0                    | 18.84                 | 1       | 1         | Right Cheek   | 0            | 99         | 0.744                                   | 1.306                | 0.998                  | 0.998                  | 0.624                   | 20.0   |             |                     |                 |
| Head                                   | NR Band n25 | 40              | QPSK                 | F    | 0744M         | 1.1        | 0.02           | 1882.50         | 376500    | DFT-s-OFDM | 0.0      | 20.0                    | 18.90                 | 1       | 214       | Right Tit     | 0            | 99         | 0.763                                   | 1.288                | 0.970                  | 0.970                  | 0.606                   | 20.1   |             |                     |                 |
| Head                                   | NR Band n25 | 40              | QPSK                 | F    | 0744M         | 1.1        | 0.01           | 1882.50         | 376500    | DFT-s-OFDM | 0.0      | 20.0                    | 18.72                 | 108     | 54        | Right Tit     | 0            | 99         | 0.744                                   | 1.343                | 1.026                  | 1.026                  | 0.641                   | 19.9   |             |                     |                 |
| Head                                   | NR Band n25 | 40              | QPSK                 | F    | 0744M         | 1.1        | 0.02           | 1882.50         | 376500    | DFT-s-OFDM | 0.0      | 20.0                    | 18.84                 | 216     | 0         | Right Tit     | 0            | 99         | 0.764                                   | 1.308                | 1.045                  | 1.045                  | 0.653                   | 19.8   |             |                     |                 |
| Head                                   | NR Band n25 | 40              | QPSK                 | F    | 0744M         | 1.1        | 0.05           | 1882.50         | 376500    | CP-OFDM    | 0.0      | 20.0                    | 18.84                 | 1       | 1         | Right Tit     | 0            | 99         | 0.786                                   | 1.306                | 1.000                  | 1.000                  | 0.625                   | A40    | 19.8        |                     |                 |
| Head                                   | NR Band n25 | 40              | QPSK                 | F    | 0827M         | 1.1        | -0.04          | 1882.50         | 376500    | DFT-s-OFDM | 0.0      | 20.0                    | 18.78                 | 108     | 54        | Right Tit     | 0            | 99         | 0.653                                   | 1.288                | 0.687                  | 0.687                  | 0.439                   | 21.6   |             |                     |                 |
| Head                                   | NR Band n25 | 40              | QPSK                 | F    | 0827M         | 1.1        | 0.03           | 1882.50         | 376500    | DFT-s-OFDM | 0.0      | 20.0                    | 18.72                 | 108     | 54        | Left Cheek    | 0            | 99         | 0.633                                   | 1.343                | 0.716                  | 0.716                  | 0.448                   | 21.4   |             |                     |                 |
| Head                                   | NR Band n25 | 40              | QPSK                 | F    | 0827M         | 1.1        | 0.01           | 1882.50         | 376500    | DFT-s-OFDM | 0.0      | 20.0                    | 18.90                 | 1       | 214       | Left Tit      | 0            | 99         | 0.684                                   | 1.288                | 0.881                  | 0.881                  | 0.551                   | 20.2   |             |                     |                 |
| Head                                   | NR Band n25 | 40              | QPSK                 | F    | 0827M         | 1.1        | -0.03          | 1882.50         | 376500    | DFT-s-OFDM | 0.0      | 20.0                    | 18.72                 | 108     | 54        | Left Tit      | 0            | 99         | 0.629                                   | 1.343                | 0.900                  | 0.900                  | 0.563                   | 20.4   |             |                     |                 |
| ANSI/IEEE C95.1 1992 - SAFETY LIMIT    |             |                 |                      |      |               |            |                |                 |           |            |          |                         |                       |         |           |               |              |            | 1.6 W/kg (mW/g)<br>averaged over 1 gram |                      |                        |                        |                         |        |             |                     |                 |
| Spatial Peak                           |             |                 |                      |      |               |            |                |                 |           |            |          |                         |                       |         |           |               |              |            | Spatial Peak                            |                      |                        |                        |                         |        |             |                     |                 |
| Unintended Exposure/General Population |             |                 |                      |      |               |            |                |                 |           |            |          |                         |                       |         |           |               |              |            |                                         |                      |                        |                        |                         |        |             |                     |                 |

Table 12-49

| Exposure                               | Band / Mode | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Dft [dB] | Frequency [MHz] | Channel # | Waveform   | MPR [dB] | Max Allowed Power [dBm] | Conducted Power [dBm] | RB Size | RB Offset | Test Position | Spacing [mm] | Tune state | Measured 1g SAR [W/kg]                  | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | Plmit [dBm] | Overall Plmit [dBm] | EFS Plmit [dBm] |
|----------------------------------------|-------------|-----------------|----------------------|------|---------------|------------|----------------|-----------------|-----------|------------|----------|-------------------------|-----------------------|---------|-----------|---------------|--------------|------------|-----------------------------------------|----------------------|------------------------|------------------------|-------------------------|--------|-------------|---------------------|-----------------|
| Body-worn/Hotspot                      | NR Band n25 | 40              | QPSK                 | A    | 0744M         | 1.1        | -0.06          | 1882.50         | 376500    | DFT-s-OFDM | 0.0      | 19.0                    | 18.15                 | 1       | 1         | Back          | 10           | 99         | 0.505                                   | 1.216                | 0.620                  | 0.620                  | 0.388                   | 21.0   | 18.2        | 18.0                |                 |
| Body-worn/Hotspot                      | NR Band n25 | 40              | QPSK                 | A    | 0744M         | 1.1        | 0.04           | 1882.50         | 376500    | DFT-s-OFDM | 0.0      | 19.0                    | 18.05                 | 108     | 54        | Back          | 10           | 99         | 0.532                                   | 1.245                | 0.662                  | 0.662                  | 0.454                   | A41    |             |                     | 20.7            |
| Hotspot                                | NR Band n25 | 40              | QPSK                 | F    | 0744M         | 1.1        | -0.02          | 1882.50         | 376500    | DFT-s-OFDM | 0.0      | 19.0                    | 18.15                 | 1       | 1         | Front         | 10           | 99         | 0.552                                   | 1.216                | 0.604                  | 0.604                  | 0.393                   | 22.0   |             |                     |                 |
| Hotspot                                | NR Band n25 | 40              | QPSK                 | A    | 0744M         | 1.1        | -0.07          | 1882.50         | 376500    | DFT-s-OFDM | 0.0      | 19.0                    | 18.05                 | 108     | 54        | Front         | 10           | 99         | 0.580                                   | 1.245                | 0.648                  | 0.648                  | 0.386                   | 22.4   |             |                     |                 |
| Hotspot                                | NR Band n25 | 40              | QPSK                 | F    | 0744M         | 1.1        | 0.01           | 1882.50         | 376500    | DFT-s-OFDM | 0.0      | 19.0                    | 18.15                 | 1       | 1         | Bottom        | 10           | 99         | 0.624                                   | 1.216                | 1.136                  | 1.136                  | 0.710                   | 18.4   |             |                     |                 |
| Hotspot                                | NR Band n25 | 40              | QPSK                 | A    | 0744M         | 1.1        | -0.03          | 1882.50         | 376500    | DFT-s-OFDM | 0.0      | 19.0                    | 18.05                 | 108     | 54        | Bottom        | 10           | 99         | 0.505                                   | 1.245                | 1.105                  | 1.105                  | 0.728                   | 18.3   |             |                     |                 |
| Hotspot                                | NR Band n25 | 40              | QPSK                 | F    | 0744M         | 1.1        | -0.02          | 1882.50         | 376500    | DFT-s-OFDM | 0.0      | 19.0                    | 18.00                 | 216     | 0         | Bottom        | 10           | 99         | 0.543                                   | 1.259                | 1.187                  | 1.187                  | 0.742                   | 18.2   |             |                     |                 |
| Hotspot                                | NR Band n25 | 40              | QPSK                 | A    | 0744M         | 1.1        | -0.01          | 1882.50         | 376500    | CP-OFDM    | 0.0      | 19.0                    | 18.18                 | 1       | 1         | Bottom        | 10           | 99         | 0.583                                   | 1.180                | 1.113                  | 1.113                  | 0.696                   | A42    |             |                     | 18.5            |
| Hotspot                                | NR Band n25 | 40              | QPSK                 | A    | 0824M         | 1.1        | -0.01          | 1882.50         | 376500    | DFT-s-OFDM | 0.0      | 19.0                    | 18.15                 | 1       | 1         | Right         | 10           | 99         | 0.604                                   | 1.216                | 0.604                  | 0.604                  | 0.394                   | 31.7   |             |                     |                 |
| Hotspot                                | NR Band n25 | 40              | QPSK                 | A    | 0824M         | 1.1        | -0.06          | 1882.50         | 376500    | DFT-s-OFDM | 0.0      | 19.0                    | 18.05                 | 108     | 54        | Right         | 10           | 99         | 0.606                                   | 1.245                | 0.600                  | 0.600                  | 0.398                   | 31.2   |             |                     |                 |
| Hotspot                                | NR Band n25 | 40              | QPSK                 | F    | 0714M         | 1.1        | -0.03          | 1882.50         | 376500    | DFT-s-OFDM | 0.0      | 19.0                    | 18.15                 | 1       | 1         | Left          | 10           | 99         | 0.608                                   | 1.216                | 0.608                  | 0.608                  | 0.399                   | 31.1   |             |                     |                 |
| Hotspot                                | NR Band n25 | 40              | QPSK                 | A    | 0074M         | 1.1        | -0.07          | 1882.50         | 376500    | DFT-s-OFDM | 0.0      | 19.0                    | 18.05                 | 108     | 54        | Left          | 10           | 99         | 0.588                                   | 1.245                | 0.600                  | 0.600                  | 0.398                   | 31.2   |             |                     |                 |
| UNCLASSIFIED CDS 1.1992 - SAFETY LIMIT |             |                 |                      |      |               |            |                |                 |           |            |          |                         |                       |         |           |               |              |            | Body                                    |                      |                        |                        |                         |        |             |                     |                 |
| SAR/Power                              |             |                 |                      |      |               |            |                |                 |           |            |          |                         |                       |         |           |               |              |            | 1.6 W/kg (mW/g)<br>averaged over 1 gram |                      |                        |                        |                         |        |             |                     |                 |
| Annoyed/Exposure (General Population)  |             |                 |                      |      |               |            |                |                 |           |            |          |                         |                       |         |           |               |              |            |                                         |                      |                        |                        |                         |        |             |                     |                 |

Table 12-50

| Exposure                                   | Band / Mode | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Dft [dB] | Frequency [MHz] | Channel # | Waveform   | MPR [dB] | Max Allowed Power [dBm] | Conducted Power [dBm] | RB Size | RB Offset | Test Position | Spacing [mm] | Tune state | Measured 1g SAR [W/kg] | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | Plmit [dBm] | Overall Plmit [dBm] | EFS Plmit [dBm] |
|--------------------------------------------|-------------|----------------------|------|---------------|------------|----------------|-----------------|-----------|------------|----------|-------------------------|-----------------------|---------|-----------|---------------|--------------|------------|------------------------|----------------------|------------------------|------------------------|-------------------------|--------|-------------|---------------------|-----------------|
| Body-worn/Hotspot                          | NR Band n25 | QPSK                 | F    | 0824M         | 1.1        | -0.00          | 1882.50         | 376500    | DFT-s-OFDM | 0.0      | 21.0                    | 19.85                 | 1       | 214       | Back          | 10           | 99         | 0.186                  | 1.103                | 0.242                  | 0.242                  | 0.151                   | 27.1   | 23.3        | 20.0                |                 |
| Body-worn/Hotspot                          | NR Band n25 | QPSK                 | F    | 0824M         | 1.1        | -0.02          | 1882.50         | 376500    | DFT-s-OFDM | 0.0      | 21.0                    | 19.81                 | 108     | 54        | Back          | 10           | 99         | 0.192                  | 1.109                | 0.251                  | 0.251                  | 0.157                   | 26.9   |             |                     |                 |
| Hotspot                                    | NR Band n25 | QPSK                 | F    | 0824M         | 1.1        | 0.03           | 1882.50         | 376500    | DFT-s-OFDM | 0.0      | 21.0                    | 19.85                 | 1       | 214       | Front         | 10           | 99         | 0.134                  | 1.103                | 0.175                  | 0.175                  | 0.109                   | 28.5   |             |                     |                 |
| Hotspot                                    | NR Band n25 | QPSK                 | F    | 0824M         | 1.1        | -0.01          | 1882.50         | 376500    | DFT-s-OFDM | 0.0      | 21.0                    | 19.83                 | 108     | 54        | Front         | 10           | 99         | 0.140                  | 1.109                | 0.183                  | 0.183                  | 0.114                   | 28.3   |             |                     |                 |
| Hotspot                                    | NR Band n25 | QPSK                 | F    | 0824M         | 1.1        | 0.01           | 1882.50         | 376500    | DFT-s-OFDM | 0.0      | 21.0                    | 19.85                 | 1       | 214       | Top           | 10           | 99         | 0.425                  | 1.103                | 0.554                  | 0.554                  | 0.386                   | 23.5   |             |                     |                 |
| Hotspot                                    | NR Band n25 | QPSK                 | F    | 0824M         | 1.1        | 0.03           | 1882.50         | 376500    | DFT-s-OFDM | 0.0      | 21.0                    | 19.83                 | 108     | 54        | Top           | 10           | 99         | 0.441                  | 1.109                | 0.577                  | 0.577                  | 0.381                   | 23.3   |             |                     |                 |
| Hotspot                                    | NR Band n25 | QPSK                 | F    | 0824M         | 1.1        | -0.05          | 1882.50         | 376500    | CP-OFDM    | 0.0      | 21.0                    | 19.84                 | 1       | 1         | Top           | 10           | 99         | 0.420                  | 1.106                | 0.588                  | 0.588                  | 0.388                   | 23.3   |             |                     |                 |
| Hotspot                                    | NR Band n25 | QPSK                 | F    | 0824M         | 1.1        | 0.01           | 1882.50         | 376500    | DFT-s-OFDM | 0.0      | 21.0                    | 19.85                 | 1       | 214       | Left          | 10           | 99         | 0.027                  | 1.103                | 0.074                  | 0.074                  | 0.046                   | 32.2   |             |                     |                 |
| Hotspot                                    | NR Band n25 | QPSK                 | F    | 0824M         | 1.1        | 0.18           | 1882.50         | 376500    | DFT-s-OFDM | 0.0      | 21.0                    | 19.83                 | 108     | 54        | Left          | 10           | 99         | 0.048                  | 1.109                | 0.063                  | 0.063                  | 0.039                   | 33.0   |             |                     |                 |
| ANALYSE CH1.092 - SAFETY LIMIT             |             |                      |      |               |            |                |                 |           |            |          |                         |                       |         |           |               |              |            |                        | Body                 |                        |                        |                         |        |             |                     |                 |
| Spatial Peak                               |             |                      |      |               |            |                |                 |           |            |          |                         |                       |         |           |               |              |            |                        | 1.6 W/kg (mW/g)      |                        |                        |                         |        |             |                     |                 |
| Uncontrolled Exposure - General Population |             |                      |      |               |            |                |                 |           |            |          |                         |                       |         |           |               |              |            |                        | averaged over 1 gram |                        |                        |                         |        |             |                     |                 |



## 12.15 NR Band n41 Standalone SAR

Table 12-51

| Exposure                                 | Band / Mode | Bandwidth [MHz] | Service / Modulation | Ant. | Path | Serial Number | Duty Cycle | Power DfR [dB] | Frequency [MHz] | Channel # | Waveform   | MFR [dB] | Max Allowed Power [dBm] | Conducted Power [dBm] | RF Size | RF Offset | Test Position | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | Plimb [dBm] | Overall Plimb [dBm] | EPS Plimb [dBm] |
|------------------------------------------|-------------|-----------------|----------------------|------|------|---------------|------------|----------------|-----------------|-----------|------------|----------|-------------------------|-----------------------|---------|-----------|---------------|--------------|------------------------|----------------------|------------------------|------------------------|-------------------------|--------|-------------|---------------------|-----------------|
| Head                                     | NR Band n41 | 100             | QPSK                 | F    | 1    | 0832M         | 1:1        | 0.05           | 2592.99         | 518998    | DTT-e-OFDM | 0.0      | 17.5                    | 17.17                 | 1       | 137       | Right Cheek   | 0            | 0.779                  | 1.079                | 0.841                  | 0.841                  | 0.526                   |        | 18.2        |                     |                 |
| Head                                     | NR Band n41 | 100             | QPSK                 | F    | 1    | 0832M         | 1:1        | 0.01           | 2592.99         | 518998    | DTT-e-OFDM | 0.0      | 17.5                    | 17.17                 | 135     | 69        | Right Cheek   | 0            | 0.777                  | 1.086                | 0.838                  | 0.838                  | 0.524                   |        | 18.2        |                     |                 |
| Head                                     | NR Band n41 | 100             | QPSK                 | F    | 1    | 0832M         | 1:1        | 0.00           | 2592.99         | 518998    | DTT-e-OFDM | 0.0      | 17.5                    | 17.13                 | 290     | 0         | Right Cheek   | 0            | 0.789                  | 1.089                | 0.859                  | 0.859                  | 0.537                   |        | 18.1        |                     |                 |
| Head                                     | NR Band n41 | 100             | QPSK                 | F    | 1    | 0832M         | 1:1        | 0.01           | 2592.99         | 518998    | DTT-e-OFDM | 0.0      | 17.5                    | 17.17                 | 1       | 137       | Right Tilt    | 0            | 0.886                  | 1.079                | 1.185                  | 1.185                  | 0.728                   |        | 16.9        |                     |                 |
| Head                                     | NR Band n41 | 100             | QPSK                 | F    | 1    | 0832M         | 1:1        | 0.00           | 2592.99         | 518998    | DTT-e-OFDM | 0.0      | 17.5                    | 17.13                 | 135     | 69        | Right Tilt    | 0            | 0.886                  | 1.086                | 1.184                  | 1.184                  | 0.726                   |        | 16.9        |                     |                 |
| Head                                     | NR Band n41 | 100             | QPSK                 | F    | 1    | 0832M         | 1:1        | 0.02           | 2592.99         | 518998    | DTT-e-OFDM | 0.0      | 17.5                    | 17.13                 | 290     | 0         | Right Tilt    | 0            | 0.889                  | 1.089                | 1.241                  | 1.241                  | 0.769                   |        | 16.5        |                     |                 |
| Head                                     | NR Band n41 | 100             | QPSK                 | F    | 1    | 0832M         | 1:1        | 0.02           | 2592.99         | 518998    | DTT-e-OFDM | 0.0      | 17.5                    | 17.13                 | 290     | 0         | Right Tilt    | 0            | 0.889                  | 1.089                | 1.242                  | 1.242                  | 0.769                   | A43    | 16.5        | 16.5                |                 |
| Head                                     | NR Band n41 | 100             | QPSK                 | F    | 1    | 0832M         | 1:1        | 0.00           | 2592.99         | 518998    | CP-OFDM    | 0.0      | 17.5                    | 17.11                 | 1       | 1         | Right Tilt    | 0            | 1.000                  | 1.004                | 1.160                  | 1.160                  | 0.725                   |        | 16.8        |                     |                 |
| Head                                     | NR Band n41 | 100             | QPSK                 | F    | 1    | 0832M         | 1:1        | 0.01           | 2592.99         | 518998    | DTT-e-OFDM | 0.0      | 17.5                    | 17.17                 | 1       | 137       | Left Cheek    | 0            | 0.282                  | 1.079                | 0.115                  | 0.115                  | 0.197                   |        | 22.5        |                     |                 |
| Head                                     | NR Band n41 | 100             | QPSK                 | F    | 1    | 0832M         | 1:1        | 0.01           | 2592.99         | 518998    | DTT-e-OFDM | 0.0      | 17.5                    | 17.14                 | 135     | 69        | Left Cheek    | 0            | 0.286                  | 1.086                | 0.111                  | 0.111                  | 0.196                   |        | 22.5        |                     |                 |
| Head                                     | NR Band n41 | 100             | QPSK                 | F    | 1    | 0832M         | 1:1        | 0.00           | 2592.99         | 518998    | DTT-e-OFDM | 0.0      | 17.5                    | 17.17                 | 1       | 137       | Left Tilt     | 0            | 0.383                  | 1.079                | 0.413                  | 0.413                  | 0.258                   |        | 21.3        |                     |                 |
| Head                                     | NR Band n41 | 100             | QPSK                 | F    | 1    | 0832M         | 1:1        | 0.01           | 2592.99         | 518998    | DTT-e-OFDM | 0.0      | 17.5                    | 17.14                 | 135     | 69        | Left Tilt     | 0            | 0.376                  | 1.086                | 0.408                  | 0.408                  | 0.255                   |        | 21.3        |                     |                 |
| ANSI/IEEE C95.1 1982 - SAFETY LIMIT      |             |                 |                      |      |      |               |            |                |                 |           |            |          |                         |                       |         |           |               |              | Head                   |                      |                        |                        |                         |        |             |                     |                 |
| Spatial Peak                             |             |                 |                      |      |      |               |            |                |                 |           |            |          |                         |                       |         |           |               |              | 1.6 W/kg (mW/g)        |                      |                        |                        |                         |        |             |                     |                 |
| Uncontrolled Exposure/General Population |             |                 |                      |      |      |               |            |                |                 |           |            |          |                         |                       |         |           |               |              | averaged over 1 gram   |                      |                        |                        |                         |        |             |                     |                 |

Note: Blue entry represents variability measurement

Table 12-52

| Exposure                                 | Band / Mode | Bandwidth [MHz] | Service / Modulation | Ant. | Path | Serial Number | Duty Cycle | Power DfR [dB] | Frequency [MHz] | Channel # | Waveform   | MFR [dB] | Max Allowed Power [dBm] | Conducted Power [dBm] | RF Size | RF Offset | Test Position | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | Plimb [dBm] | Overall Plimb [dBm] | EPS Plimb [dBm] |
|------------------------------------------|-------------|-----------------|----------------------|------|------|---------------|------------|----------------|-----------------|-----------|------------|----------|-------------------------|-----------------------|---------|-----------|---------------|--------------|------------------------|----------------------|------------------------|------------------------|-------------------------|--------|-------------|---------------------|-----------------|
| Head                                     | NR Band n41 | 100             | QPSK                 | B    | 2    | 0832M         | 1:1        | 0.05           | 2592.99         | 518998    | DTT-e-OFDM | 0.0      | 22.0                    | 21.87                 | 1       | 137       | Right Cheek   | 0            | 0.082                  | 1.030                | 0.084                  | 0.084                  | 0.051                   |        | 32.7        |                     |                 |
| Head                                     | NR Band n41 | 100             | QPSK                 | B    | 2    | 0832M         | 1:1        | 0.10           | 2592.99         | 518998    | DTT-e-OFDM | 0.0      | 22.0                    | 21.88                 | 135     | 69        | Right Cheek   | 0            | 0.084                  | 1.028                | 0.086                  | 0.086                  | 0.052                   |        | 32.6        |                     |                 |
| Head                                     | NR Band n41 | 100             | QPSK                 | B    | 2    | 0832M         | 1:1        | 0.03           | 2592.99         | 518998    | CP-OFDM    | 0.0      | 22.0                    | 21.84                 | 1       | 1         | Right Cheek   | 0            | 0.088                  | 1.038                | 0.091                  | 0.091                  | 0.057                   |        | 32.3        |                     |                 |
| Head                                     | NR Band n41 | 100             | QPSK                 | B    | 2    | 0832M         | 1:1        | 0.00           | 2592.99         | 518998    | DTT-e-OFDM | 0.0      | 22.0                    | 21.87                 | 1       | 137       | Right Tilt    | 0            | 0.091                  | 1.030                | 0.044                  | 0.044                  | 0.038                   |        | 35.7        |                     |                 |
| Head                                     | NR Band n41 | 100             | QPSK                 | B    | 2    | 0832M         | 1:1        | 0.02           | 2592.99         | 518998    | CP-OFDM    | 0.0      | 22.0                    | 21.88                 | 135     | 69        | Right Tilt    | 0            | 0.041                  | 1.028                | 0.042                  | 0.042                  | 0.035                   |        | 35.5        |                     |                 |
| Head                                     | NR Band n41 | 100             | QPSK                 | B    | 2    | 0832M         | 1:1        | 0.02           | 2592.99         | 518998    | DTT-e-OFDM | 0.0      | 22.0                    | 21.87                 | 1       | 137       | Left Cheek    | 0            | 0.021                  | 1.030                | 0.032                  | 0.032                  | 0.020                   |        | 36.9        | 32.1                |                 |
| Head                                     | NR Band n41 | 100             | QPSK                 | B    | 2    | 0832M         | 1:1        | 0.10           | 2592.99         | 518998    | DTT-e-OFDM | 0.0      | 22.0                    | 21.88                 | 135     | 69        | Left Cheek    | 0            | 0.024                  | 1.028                | 0.035                  | 0.035                  | 0.022                   |        | 36.5        |                     |                 |
| Head                                     | NR Band n41 | 100             | QPSK                 | B    | 2    | 0832M         | 1:1        | 0.04           | 2592.99         | 518998    | DTT-e-OFDM | 0.0      | 22.0                    | 21.87                 | 1       | 137       | Left Tilt     | 0            | 0.004                  | 1.030                | 0.035                  | 0.035                  | 0.022                   |        | 36.5        |                     |                 |
| Head                                     | NR Band n41 | 100             | QPSK                 | B    | 2    | 0832M         | 1:1        | 0.10           | 2592.99         | 518998    | DTT-e-OFDM | 0.0      | 22.0                    | 21.88                 | 135     | 69        | Left Tilt     | 0            | 0.025                  | 1.028                | 0.038                  | 0.038                  | 0.022                   |        | 36.4        | 21.0                |                 |
| ANSI/IEEE C95.1 1982 - SAFETY LIMIT      |             |                 |                      |      |      |               |            |                |                 |           |            |          |                         |                       |         |           |               |              |                        | Head                 |                        |                        |                         |        |             |                     |                 |
| Spatial Peak                             |             |                 |                      |      |      |               |            |                |                 |           |            |          |                         |                       |         |           |               |              |                        | 1.6 W/kg (mW/g)      |                        |                        |                         |        |             |                     |                 |
| Uncontrolled Exposure/General Population |             |                 |                      |      |      |               |            |                |                 |           |            |          |                         |                       |         |           |               |              |                        | averaged over 1 gram |                        |                        |                         |        |             |                     |                 |

Table 12-53

| Exposure                                 | Band / Mode | Bandwidth [MHz] | Ant. | Path | Serial Number | Duty Cycle | Power DfB [dB] | Frequency [MHz] | Channel # | Waveform | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | Plimit [dBm] | Overall Plimit [dBm] | EPS Plimit [dBm] |
|------------------------------------------|-------------|-----------------|------|------|---------------|------------|----------------|-----------------|-----------|----------|-------------------------|-----------------------|---------------|--------------|------------------------|----------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|
| Head                                     | NR Band n41 | 100             | D    | 2    | 0832M         | 1:1        | 0.09           | 2592.99         | 518998    | CW/SRS   | 20.0                    | 19.45                 | Right Cheek   | 0            | 0.000                  | 1.135                | 0.000                  | 0.000                  | 0.000                   |        | 59.4         |                      |                  |
| Head                                     | NR Band n41 | 100             | D    | 2    | 0832M         | 1:1        | 0.09           | 2592.99         | 518998    | CW/SRS   | 20.0                    | 19.45                 | Right Tilt    | 0            | 0.000                  | 1.135                | 0.000                  | 0.000                  | 0.000                   |        | 59.4         |                      |                  |
| Head                                     | NR Band n41 | 100             | D    | 2    | 0832M         | 1:1        | 0.01           | 2592.99         | 518998    | CW/SRS   | 20.0                    | 19.45                 | Left Cheek    | 0            | 0.000                  | 1.135                | 0.000                  | 0.000                  | 0.000                   |        | 59.4         | 19.0                 |                  |
| Head                                     | NR Band n41 | 100             | D    | 2    | 0832M         | 1:1        | 0.05           | 2592.99         | 518998    | CW/SRS   | 20.0                    | 19.45                 | Left Tilt     | 0            | 0.000                  | 1.135                | 0.000                  | 0.000                  | 0.000                   |        | 59.4         |                      |                  |
| 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 12-54

| Exposure                                 | Band / Mode | Bandwidth [MHz] | Ant. | Path | Serial Number | Duty Cycle | Power Drift [dB] | Frequency [MHz] | Channel # | Waveform | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | Plimit [dBm] | Overall Plimit [dBm] | EPS Plimit [dBm] |
|------------------------------------------|-------------|-----------------|------|------|---------------|------------|------------------|-----------------|-----------|----------|-------------------------|-----------------------|---------------|--------------|------------------------|----------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|
| Head                                     | NR Band n41 | 100             | E    | 2    | 0832M         | 1:1        | -0.10            | 2592.99         | 518998    | CW/SRS   | 17.0                    | 16.33                 | Right Cheek   | 0            | 0.317                  | 1.167                | 0.370                  | 0.370                  | 0.231                   |        | 21.3         |                      |                  |
| Head                                     | NR Band n41 | 100             | E    | 2    | 0832M         | 1:1        | -0.08            | 2592.99         | 518998    | CW/SRS   | 17.0                    | 16.33                 | Right Tilt    | 0            | 0.308                  | 1.167                | 0.359                  | 0.359                  | 0.224                   |        | 21.4         |                      |                  |
| Head                                     | NR Band n41 | 100             | E    | 2    | 0832M         | 1:1        | -0.13            | 2592.99         | 518998    | CW/SRS   | 17.0                    | 16.33                 | Left Cheek    | 0            | 0.736                  | 1.167                | 0.859                  | 0.859                  | 0.537                   |        | 17.6         |                      |                  |
| Head                                     | NR Band n41 | 100             | E    | 2    | 0832M         | 1:1        | -0.01            | 2592.99         | 518998    | CW/SRS   | 17.0                    | 16.33                 | Left Tilt     | 0            | 0.579                  | 1.167                | 0.676                  | 0.676                  | 0.423                   |        | 18.7         |                      |                  |
| 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 12-55

| Exposure                                | Band / Mode | Bandwidth [MHz] | Service / Modulation | Ant. | Path | Serial Number | Duty Cycle | Power DfR [dB] | Frequency [MHz] | Channel # | Waveform   | MFR [dB] | Max Allowed Power [dBm] | Conducted Power [dBm] | RF Size         | RF Offset | Test Position | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | Plimb [dBm] | Overall Plimb [dBm] | EPS Plimb [dBm] |
|-----------------------------------------|-------------|-----------------|----------------------|------|------|---------------|------------|----------------|-----------------|-----------|------------|----------|-------------------------|-----------------------|-----------------|-----------|---------------|--------------|------------------------|----------------------|------------------------|------------------------|-------------------------|--------|-------------|---------------------|-----------------|
| Body-worn/Hotspot                       | NR Band n41 | 100             | QPSK                 | F    | 1    | 0832M         | 1:1        | 0.00           | 2592.99         | 518998    | DTT-e-OFDM | 0.0      | 19.5                    | 19.50                 | 1               | 137       | Back          | 10           | 0.108                  | 1.000                | 0.118                  | 0.118                  | 0.099                   |        | 27.3        |                     |                 |
| Body-worn/Hotspot                       | NR Band n41 | 100             | QPSK                 | F    | 1    | 0832M         | 1:1        | 0.06           | 2592.99         | 518998    | DTT-e-OFDM | 0.0      | 19.5                    | 19.49                 | 135             | 69        | Back          | 10           | 0.109                  | 1.002                | 0.119                  | 0.119                  | 0.099                   |        | 27.4        |                     |                 |
| Hotspot                                 | NR Band n41 | 100             | QPSK                 | F    | 1    | 0832M         | 1:1        | 0.01           | 2592.99         | 518998    | DTT-e-OFDM | 0.0      | 19.5                    | 19.50                 | 1               | 137       | Front         | 10           | 0.202                  | 1.000                | 0.202                  | 0.202                  | 0.126                   |        | 26.4        |                     |                 |
| Hotspot                                 | NR Band n41 | 100             | QPSK                 | F    | 1    | 0832M         | 1:1        | 0.03           | 2592.99         | 518998    | DTT-e-OFDM | 0.0      | 19.5                    | 19.49                 | 135             | 69        | Front         | 10           | 0.201                  | 1.002                | 0.201                  | 0.201                  | 0.126                   |        | 26.4        |                     |                 |
| Hotspot                                 | NR Band n41 | 100             | QPSK                 | F    | 1    | 0832M         | 1:1        | 0.02           | 2592.99         | 518998    | DTT-e-OFDM | 0.0      | 19.5                    | 19.50                 | 1               | 137       | Top           | 10           | 0.396                  | 1.000                | 0.396                  | 0.396                  | 0.248                   |        | 23.5        |                     | 18.5            |
| Hotspot                                 | NR Band n41 | 100             | QPSK                 | F    | 1    | 0832M         | 1:1        | 0.02           | 2592.99         | 518998    | DTT-e-OFDM | 0.0      | 19.5                    | 19.49                 | 135             | 69        | Top           | 10           | 0.399                  | 1.002                | 0.391                  | 0.391                  | 0.244                   |        | 23.5        |                     |                 |
| Hotspot                                 | NR Band n41 | 100             | QPSK                 | F    | 1    | 0832M         | 1:1        | 0.03           | 2592.99         | 518998    | DTT-e-OFDM | 0.0      | 19.5                    | 19.49                 | 135             | 69        | Top           | 10           | 0.397                  | 1.000                | 0.397                  | 0.397                  | 0.248                   |        | 23.5        |                     |                 |
| Hotspot                                 | NR Band n41 | 100             | QPSK                 | F    | 1    | 0832M         | 1:1        | 0.12           | 2592.99         | 518998    | DTT-e-OFDM | 0.0      | 19.5                    | 19.50                 | 1               | 137       | Left          | 10           | 0.041                  | 1.000                | 0.043                  | 0.043                  | 0.027                   |        | 33.0        |                     |                 |
| Hotspot                                 | NR Band n41 | 100             | QPSK                 | F    | 1    | 0832M         | 1:1        | 0.00           | 2592.99         | 518998    | DTT-e-OFDM | 0.0      | 19.5                    | 19.49                 | 135             | 69        | Left          | 10           | 0.044                  | 1.002                | 0.044                  | 0.044                  | 0.028                   |        | 33.0        |                     |                 |
| ANSI/IEEE C95.1 1992 - SAFETY LIMIT     |             |                 |                      |      |      |               |            |                |                 |           |            |          |                         |                       | Body            |           |               |              |                        |                      |                        |                        |                         |        |             |                     |                 |
| Spatial Peak                            |             |                 |                      |      |      |               |            |                |                 |           |            |          |                         |                       | 1.6 W/kg (mW/g) |           |               |              |                        |                      |                        |                        |                         |        |             |                     |                 |
| Uncontrolled Power (General Population) |             |                 |                      |      |      |               |            |                |                 |           |            |          |                         |                       | 0.0001          |           |               |              |                        |                      |                        |                        |                         |        |             |                     |                 |



Table 12-57

| Exposure                                                                                        | Band / Mode | Bandwidth [MHz] | Ant. | Path | Serial Number | Duty Cycle | Power Drift [dB] | Frequency [MHz] | Channel # | Waveform | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position | Spacing [mm] | Measured 1g SAR [W/kg]                          | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | P1mit [dBm] | Overall P1mit [dBm] | EPS P1mit [dBm] |
|-------------------------------------------------------------------------------------------------|-------------|-----------------|------|------|---------------|------------|------------------|-----------------|-----------|----------|-------------------------|-----------------------|---------------|--------------|-------------------------------------------------|----------------------|------------------------|------------------------|-------------------------|--------|-------------|---------------------|-----------------|
| Body-worn/Hotspot                                                                               | NR Band n41 | 100             | D    | 2    | 0812M         | 1:1        | -0.09            | 2592.99         | 518598    | CW/SRS   | 19.0                    | 18.38                 | Back          | 10           | 0.225                                           | 1.133                | 0.294                  | 0.294                  | 0.084                   |        | 24.3        |                     |                 |
| Hotspot                                                                                         | NR Band n41 | 100             | D    | 2    | 0812M         | 1:1        | 0.07             | 2592.99         | 518598    | CW/SRS   | 19.0                    | 18.38                 | Front         | 10           | 0.025                                           | 1.133                | 0.029                  | 0.029                  | 0.018                   |        | 34.4        | 24.3                | 18.0            |
| Hotspot                                                                                         | NR Band n41 | 100             | D    | 2    | 0812M         | 1:1        | -0.12            | 2592.99         | 518598    | CW/SRS   | 19.0                    | 18.38                 | Bottom        | 10           | 0.044                                           | 1.133                | 0.051                  | 0.051                  | 0.032                   |        | 31.9        |                     |                 |
| Hotspot                                                                                         | NR Band n41 | 100             | D    | 2    | 0812M         | 1:1        | 0.20             | 2592.99         | 518598    | CW/SRS   | 19.0                    | 18.38                 | Left          | 10           | 0.022                                           | 1.133                | 0.025                  | 0.025                  | 0.016                   |        | 34.9        |                     |                 |
| 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 12-58

| Exposure                                                                                        | Band / Mode | Bandwidth [MHz] | Ant. | Path | Serial Number | Duty Cycle | Power Drift [dB] | Frequency [MHz] | Channel # | Waveform | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position | Spacing [mm] | Measured 1g SAR [W/kg]                          | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | P1mit [dBm] | Overall P1mit [dBm] | EPS P1mit [dBm] |
|-------------------------------------------------------------------------------------------------|-------------|-----------------|------|------|---------------|------------|------------------|-----------------|-----------|----------|-------------------------|-----------------------|---------------|--------------|-------------------------------------------------|----------------------|------------------------|------------------------|-------------------------|--------|-------------|---------------------|-----------------|
| Body-worn/Hotspot                                                                               | NR Band n41 | 100             | E    | 2    | 0829M         | 1:1        | 0.04             | 2592.99         | 518598    | CW/SRS   | 17.0                    | 16.33                 | Back          | 10           | 0.069                                           | 1.167                | 0.081                  | 0.081                  | 0.051                   |        | 27.9        |                     |                 |
| Hotspot                                                                                         | NR Band n41 | 100             | E    | 2    | 0829M         | 1:1        | -0.06            | 2592.99         | 518598    | CW/SRS   | 17.0                    | 16.33                 | Front         | 10           | 0.105                                           | 1.167                | 0.123                  | 0.123                  | 0.077                   |        | 26.1        | 24.9                | 16.0            |
| Hotspot                                                                                         | NR Band n41 | 100             | E    | 2    | 0829M         | 1:1        | -0.18            | 2592.99         | 518598    | CW/SRS   | 17.0                    | 16.33                 | Top           | 10           | 0.136                                           | 1.167                | 0.159                  | 0.159                  | 0.099                   |        | 24.9        |                     |                 |
| Hotspot                                                                                         | NR Band n41 | 100             | E    | 2    | 0829M         | 1:1        | -0.07            | 2592.99         | 518598    | CW/SRS   | 17.0                    | 16.33                 | Right         | 10           | 0.129                                           | 1.167                | 0.140                  | 0.140                  | 0.088                   |        | 25.5        |                     |                 |
| 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 |                      |                        |                        |                         |        |             |                     |                 |

## 12.16 NR Band n77 Standalone SAR

Table 12-59

| Exposure                                                                                        | Band / Mode     | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Drift [dB] | Frequency [MHz] | Channel # | Waveform   | MPR [dB] | Max Allowed Power [dBm] | Conducted Power [dBm] | RB Size | RB Offset                                       | Test Position | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | P1mit [dBm] | Overall P1mit [dBm] | PS P1mit [dBm] |
|-------------------------------------------------------------------------------------------------|-----------------|-----------------|----------------------|------|---------------|------------|------------------|-----------------|-----------|------------|----------|-------------------------|-----------------------|---------|-------------------------------------------------|---------------|--------------|------------------------|----------------------|------------------------|------------------------|-------------------------|--------|-------------|---------------------|----------------|
| Head                                                                                            | NR Band n77     | 100             | QPSK                 | F    | 0820M         | 1:1        | 0.04             | 3750.00         | 650000    | EPT-4-QPSK | 0.0      | 15.5                    | 15.04                 | 1       | 1                                               | Right Cheek   | 0            | 0.687                  | 1.112                | 0.708                  | 0.708                  | 0.443                   |        | 16.9        |                     |                |
| Head                                                                                            | NR Band n77     | 100             | QPSK                 | F    | 0820M         | 1:1        | -0.02            | 3930.00         | 662000    | EPT-4-QPSK | 0.0      | 15.5                    | 15.32                 | 1       | 1                                               | Right Cheek   | 0            | 0.569                  | 1.042                | 0.593                  | 0.593                  | 0.371                   |        | 17.7        |                     |                |
| Head                                                                                            | NR Band n77     | 100             | QPSK                 | F    | 0820M         | 1:1        | -0.08            | 3750.00         | 650000    | EPT-4-QPSK | 0.0      | 15.5                    | 14.95                 | 135     | 0                                               | Right Cheek   | 0            | 0.607                  | 1.135                | 0.649                  | 0.649                  | 0.411                   |        | 17.1        |                     |                |
| Head                                                                                            | NR Band n77     | 100             | QPSK                 | F    | 0820M         | 1:1        | 0.10             | 3930.00         | 662000    | EPT-4-QPSK | 0.0      | 15.5                    | 15.19                 | 135     | 0                                               | Right Cheek   | 0            | 0.531                  | 1.074                | 0.570                  | 0.570                  | 0.356                   |        | 17.9        |                     |                |
| Head                                                                                            | NR Band n77 DoD | 100             | QPSK                 | F    | 0820M         | 1:1        | 0.01             | 3500.01         | 633334    | EPT-4-QPSK | 0.0      | 15.5                    | 15.12                 | 1       | 270                                             | Right Tilt    | 0            | 0.666                  | 1.067                | 0.711                  | 0.711                  | 0.444                   |        | 16.5        |                     |                |
| Head                                                                                            | NR Band n77     | 100             | QPSK                 | F    | 0820M         | 1:1        | 0.04             | 3750.00         | 650000    | EPT-4-QPSK | 0.0      | 15.5                    | 15.04                 | 1       | 1                                               | Right Tilt    | 0            | 0.722                  | 1.112                | 0.814                  | 0.814                  | 0.505                   | A45    | 16.5        |                     |                |
| Head                                                                                            | NR Band n77     | 100             | QPSK                 | F    | 0820M         | 1:1        | 0.00             | 3930.00         | 662000    | EPT-4-QPSK | 0.0      | 15.5                    | 15.32                 | 1       | 1                                               | Right Tilt    | 0            | 0.693                  | 1.042                | 0.694                  | 0.694                  | 0.432                   |        | 17.2        |                     |                |
| Head                                                                                            | NR Band n77     | 100             | QPSK                 | F    | 0820M         | 1:1        | 0.01             | 3750.00         | 650000    | EPT-4-QPSK | 0.0      | 15.5                    | 14.95                 | 135     | 0                                               | Right Tilt    | 0            | 0.694                  | 1.135                | 0.786                  | 0.786                  | 0.483                   |        | 16.5        |                     |                |
| Head                                                                                            | NR Band n77     | 100             | QPSK                 | F    | 0820M         | 1:1        | -0.04            | 3930.00         | 662000    | EPT-4-QPSK | 0.0      | 15.5                    | 15.19                 | 135     | 0                                               | Right Tilt    | 0            | 0.622                  | 1.074                | 0.668                  | 0.668                  | 0.418                   |        | 17.2        |                     |                |
| Head                                                                                            | NR Band n77     | 100             | QPSK                 | F    | 0820M         | 1:1        | -0.01            | 3930.00         | 662000    | EPT-4-QPSK | 0.0      | 15.5                    | 15.15                 | 270     | 0                                               | Right Tilt    | 0            | 0.540                  | 1.084                | 0.585                  | 0.585                  | 0.366                   |        | 17.8        |                     |                |
| Head                                                                                            | NR Band n77     | 100             | QPSK                 | F    | 0820M         | 1:1        | -0.04            | 3930.00         | 662000    | CP-QPSK    | 0.0      | 15.5                    | 15.18                 | 1       | 1                                               | Right Tilt    | 0            | 0.604                  | 1.076                | 0.650                  | 0.650                  | 0.406                   |        | 17.1        |                     |                |
| Head                                                                                            | NR Band n77     | 100             | QPSK                 | F    | 0820M         | 1:1        | 0.02             | 3930.00         | 662000    | EPT-4-QPSK | 0.0      | 15.5                    | 15.32                 | 1       | 1                                               | Left Cheek    | 0            | 0.248                  | 1.042                | 0.258                  | 0.258                  | 0.161                   |        | 21.3        |                     |                |
| Head                                                                                            | NR Band n77     | 100             | QPSK                 | F    | 0820M         | 1:1        | -0.01            | 3930.00         | 662000    | EPT-4-QPSK | 0.0      | 15.5                    | 15.19                 | 135     | 0                                               | Left Cheek    | 0            | 0.229                  | 1.074                | 0.242                  | 0.242                  | 0.151                   |        | 21.6        |                     |                |
| Head                                                                                            | NR Band n77     | 100             | QPSK                 | F    | 0820M         | 1:1        | -0.06            | 3930.00         | 662000    | EPT-4-QPSK | 0.0      | 15.5                    | 15.32                 | 1       | 1                                               | Left Tilt     | 0            | 0.248                  | 1.042                | 0.258                  | 0.258                  | 0.161                   |        | 21.6        |                     |                |
| Head                                                                                            | NR Band n77     | 100             | QPSK                 | F    | 0820M         | 1:1        | 0.05             | 3930.00         | 662000    | EPT-4-QPSK | 0.0      | 15.5                    | 15.19                 | 135     | 0                                               | Left Tilt     | 0            | 0.206                  | 1.074                | 0.221                  | 0.221                  | 0.138                   |        | 22.0        |                     |                |
| 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 12-60

| Exposure                                                                                        | Band / Mode     | Bandwidth [MHz] | Ant. | Serial Number | Duty Cycle | Power Drift [dB] | Frequency [MHz] | Channel # | Waveform | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor                            | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | P1mit [dBm] | Overall P1mit [dBm] | EPS P1mit [dBm] |
|-------------------------------------------------------------------------------------------------|-----------------|-----------------|------|---------------|------------|------------------|-----------------|-----------|----------|-------------------------|-----------------------|---------------|--------------|------------------------|-------------------------------------------------|------------------------|------------------------|-------------------------|--------|-------------|---------------------|-----------------|
| Head                                                                                            | NR Band n77 DoD | 100             | C    | 0820M         | 1:1        | 0.03             | 3500.01         | 633334    | CW/SRS   | 11.0                    | 10.51                 | Right Cheek   | 0            | 0.000                  | 1.119                                           | 0.000                  | 0.000                  | 0.000                   |        | 50.5        |                     |                 |
| Head                                                                                            | NR Band n77     | 100             | C    | 0820M         | 1:1        | 0.01             | 3930.00         | 662000    | CW/SRS   | 11.0                    | 9.68                  | Right Cheek   | 0            | 0.011                  | 1.355                                           | 0.015                  | 0.015                  | 0.009                   |        | 29.2        |                     |                 |
| Head                                                                                            | NR Band n77     | 100             | C    | 0820M         | 1:1        | 0.04             | 3930.00         | 662000    | CW/SRS   | 11.0                    | 9.68                  | Right Tilt    | 0            | 0.003                  | 1.355                                           | 0.004                  | 0.004                  | 0.003                   |        | 34.9        | 29.2                | 10.0            |
| Head                                                                                            | NR Band n77     | 100             | C    | 0820M         | 1:1        | 0.06             | 3930.00         | 662000    | CW/SRS   | 11.0                    | 9.68                  | Left Cheek    | 0            | 0.003                  | 1.355                                           | 0.004                  | 0.004                  | 0.003                   |        | 34.9        |                     |                 |
| Head                                                                                            | NR Band n77     | 100             | C    | 0820M         | 1:1        | 0.05             | 3930.00         | 662000    | CW/SRS   | 11.0                    | 9.68                  | Left Tilt     | 0            | 0.006                  | 1.355                                           | 0.008                  | 0.008                  | 0.005                   |        | 31.8        |                     |                 |
| 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 12-61

| Exposure                                                                                        | Band / Mode     | Bandwidth [kHz] | Ant. | Serial Number | Duty Cycle | Power Drift [dB] | Frequency [MHz] | Channel # | Waveform | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor                            | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | P1mit [dBm] | Overall P1mit [dBm] | EPS P1mit [dBm] |
|-------------------------------------------------------------------------------------------------|-----------------|-----------------|------|---------------|------------|------------------|-----------------|-----------|----------|-------------------------|-----------------------|---------------|--------------|------------------------|-------------------------------------------------|------------------------|------------------------|-------------------------|--------|-------------|---------------------|-----------------|
| Head                                                                                            | NR Band n77 DoD | 100             | I    | 0820M         | 1:1        | 0.02             | 3500.01         | 633334    | CW/SRS   | 15.5                    | 14.58                 | Right Cheek   | 0            | 0.294                  | 1.236                                           | 0.289                  | 0.289                  | 0.181                   |        | 20.8        |                     |                 |
| Head                                                                                            | NR Band n77     | 100             | I    | 0820M         | 1:1        | -0.09            | 3930.00         | 662000    | CW/SRS   | 15.5                    | 15.35                 | Right Cheek   | 0            | 0.301                  | 1.035                                           | 0.312                  | 0.312                  | 0.195                   |        | 20.5        |                     |                 |
| Head                                                                                            | NR Band n77     | 100             | I    | 0820M         | 1:1        | 0.03             | 3930.00         | 662000    | CW/SRS   | 15.5                    | 15.35                 | Right Tilt    | 0            | 0.026                  | 1.035                                           | 0.027                  | 0.027                  | 0.017                   |        | 51.2        | 20.5                | 14.5            |
| Head                                                                                            | NR Band n77     | 100             | I    | 0820M         | 1:1        | 0.00             | 3930.00         | 662000    | CW/SRS   | 15.5                    | 15.35                 | Left Cheek    | 0            | 0.272                  | 1.035                                           | 0.282                  | 0.282                  | 0.176                   |        | 21.0        |                     |                 |
| Head                                                                                            | NR Band n77     | 100             | I    | 0820M         | 1:1        | 0.04             | 3930.00         | 662000    | CW/SRS   | 15.5                    | 15.35                 | Left Tilt     | 0            | 0.030                  | 1.035                                           | 0.031                  | 0.031                  | 0.019                   |        | 30.5        |                     |                 |
| 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 12-62

| Exposure                                 | Band / Mode     | Bandwidth [MHz] | Ant. | Serial Number | Duty Cycle | Power Drift [dB] | Frequency [MHz] | Channel # | Waveform | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | P1mit [dBm] | Overall P1mit [dBm] | EPS P1mit [dBm] |
|------------------------------------------|-----------------|-----------------|------|---------------|------------|------------------|-----------------|-----------|----------|-------------------------|-----------------------|---------------|--------------|------------------------|----------------------|------------------------|------------------------|-------------------------|--------|-------------|---------------------|-----------------|
| Head                                     | NR Band n77 DoD | 100             | D    | 0820M         | 1:1        | 0.02             | 3500.01         | 633334    | CW/SRS   | 11.0                    | 10.71                 | Right Cheek   | 0            | 0.000                  | 1.069                | 0.000                  | 0.000                  | 0.000                   |        | 50.7        |                     |                 |
| Head                                     | NR Band n77     | 100             | D    | 0820M         | 1:1        | 0.09             | 3750.00         | 650000    | CW/SRS   | 11.0                    | 10.30                 | Right Cheek   | 0            | 0.000                  | 1.175                | 0.000                  | 0.000                  | 0.000                   |        | 50.2        |                     |                 |
| Head                                     | NR Band n77     | 100             | D    | 0820M         | 1:1        | 0.01             | 3750.00         | 650000    | CW/SRS   | 11.0                    | 10.30                 | Right Tilt    | 0            | 0.000                  | 1.175                | 0.000                  | 0.000                  | 0.000                   |        | 50.2        |                     | 50.2            |
| Head                                     | NR Band n77     | 100             | D    | 0820M         | 1:1        | 0.04             | 3750.00         | 650000    | CW/SRS   | 11.0                    | 10.30                 | Left Cheek    | 0            | 0.000                  | 1.175                | 0.000                  | 0.000                  | 0.000                   |        | 50.2        |                     | 50.2            |
| Head                                     | NR Band n77     | 100             | D    | 0820M         | 1:1        | 0.05             | 3750.00         | 650000    | CW/SRS   | 11.0                    | 10.30                 | Left Tilt     | 0            | 0.000                  | 1.175                | 0.000                  | 0.000                  | 0.000                   |        | 50.2        |                     | 50.2            |
| ANSI/IEEE C95.1 1992 - SAFETY LIMIT      |                 |                 |      |               |            |                  |                 |           |          |                         |                       |               |              |                        | Head                 |                        |                        |                         |        |             |                     |                 |
| Spatial Peak                             |                 |                 |      |               |            |                  |                 |           |          |                         |                       |               |              |                        | 1.6 W/kg (mW/g)      |                        |                        |                         |        |             |                     |                 |
| Uncontrolled Exposure/General Population |                 |                 |      |               |            |                  |                 |           |          |                         |                       |               |              |                        | averaged over 1 gram |                        |                        |                         |        |             |                     |                 |

|                                             |                                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |
|---------------------------------------------|--------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------------------------------|--|--|--|--|--|--|
| FCC ID: A3LSMS938B                          | RF EXPOSURE PART 1 TEST REPORT |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Approved by:<br>Technical Manager |  |  |  |  |  |  |
| Document S/N:<br>1M2408260069-01.A3L (Rev1) | DUT Type:<br>Portable Handset  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Page 103 of 131                   |  |  |  |  |  |  |

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Table 12-63

| Exposure                                                 | Band / Mode     | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Drift [dB] | Frequency [MHz] | Channel # | Waveform   | MPE [dB] | Max Allowed Power [dBm] | Conducted Power [dBm]                           | RF Size | RF Offset | Test Position | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Pict # | Plimit [dBm] | Overall Plimit [dBm] | EPS Plimit [dBm] |  |
|----------------------------------------------------------|-----------------|-----------------|----------------------|------|---------------|------------|------------------|-----------------|-----------|------------|----------|-------------------------|-------------------------------------------------|---------|-----------|---------------|--------------|------------------------|----------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|--|
| Body-worn/Hotspot                                        | NR Band n77 DoD | 100             | QPSK                 | F    | 0820M         | 1:1        | -0.02            | 3500.01         | 633334    | DFT-s-OFDM | 0.0      | 19.5                    | 19.31                                           | 1       | 271       | Back          | 10           | 0.269                  | 1.045                | 0.261                  | 0.261                  | 0.163                   |        | 25.9         |                      |                  |  |
| Body-worn/Hotspot                                        | NR Band n77     | 100             | QPSK                 | F    | 0820M         | 1:1        | 0.03             | 3930.00         | 662000    | DFT-s-OFDM | 0.0      | 19.5                    | 19.40                                           | 1       | 1         | Back          | 10           | 0.362                  | 1.023                | 0.370                  | 0.370                  | 0.231                   |        | 23.8         |                      |                  |  |
| Body-worn/Hotspot                                        | NR Band n77     | 100             | QPSK                 | F    | 0820M         | 1:1        | 0.00             | 3930.00         | 662000    | DFT-s-OFDM | 0.0      | 19.5                    | 19.28                                           | 135     | 0         | Back          | 10           | 0.367                  | 1.052                | 0.386                  | 0.386                  | 0.241                   | A47    | 23.6         |                      |                  |  |
| Hotspot                                                  | NR Band n77     | 100             | QPSK                 | F    | 0820M         | 1:1        | -0.02            | 3930.00         | 662000    | DFT-s-OFDM | 0.0      | 19.5                    | 19.40                                           | 1       | 1         | Front         | 10           | 0.151                  | 1.023                | 0.154                  | 0.154                  | 0.096                   |        | 27.0         |                      |                  |  |
| Hotspot                                                  | NR Band n77     | 100             | QPSK                 | F    | 0820M         | 1:1        | -0.02            | 3930.00         | 662000    | DFT-s-OFDM | 0.0      | 19.5                    | 19.28                                           | 135     | 0         | Front         | 10           | 0.150                  | 1.052                | 0.158                  | 0.158                  | 0.099                   |        | 27.5         |                      |                  |  |
| Hotspot                                                  | NR Band n77 DoD | 100             | QPSK                 | F    | 0820M         | 1:1        | 0.00             | 3500.01         | 633334    | DFT-s-OFDM | 0.0      | 19.5                    | 19.31                                           | 1       | 271       | Top           | 10           | 0.113                  | 1.045                | 0.136                  | 0.136                  | 0.105                   | A48    | 22.1         | 22.2                 | 18.5             |  |
| Hotspot                                                  | NR Band n77     | 100             | QPSK                 | F    | 0820M         | 1:1        | 0.00             | 3930.00         | 662000    | DFT-s-OFDM | 0.0      | 19.5                    | 19.40                                           | 1       | 1         | Top           | 10           | 0.383                  | 1.023                | 0.395                  | 0.395                  | 0.247                   |        | 23.9         |                      |                  |  |
| Hotspot                                                  | NR Band n77     | 100             | QPSK                 | F    | 0820M         | 1:1        | -0.01            | 3930.00         | 662000    | DFT-s-OFDM | 0.0      | 19.5                    | 19.28                                           | 135     | 0         | Top           | 10           | 0.159                  | 1.024                | 0.178                  | 0.178                  | 0.106                   |        | 23.7         |                      |                  |  |
| Hotspot                                                  | NR Band n77     | 100             | QPSK                 | F    | 0820M         | 1:1        | 0.00             | 3930.00         | 662000    | CP-OFDM    | 0.0      | 19.5                    | 19.27                                           | 1       | 1         | Top           | 10           | 0.402                  | 1.054                | 0.424                  | 0.424                  | 0.265                   |        | 23.2         |                      |                  |  |
| Hotspot                                                  | NR Band n77     | 100             | QPSK                 | F    | 0820M         | 1:1        | 0.00             | 3930.00         | 662000    | DFT-s-OFDM | 0.0      | 19.5                    | 19.40                                           | 1       | 1         | Left          | 10           | 0.196                  | 1.023                | 0.198                  | 0.198                  | 0.068                   |        | 29.1         |                      |                  |  |
| Hotspot                                                  | NR Band n77     | 100             | QPSK                 | F    | 0820M         | 1:1        | 0.00             | 3930.00         | 662000    | DFT-s-OFDM | 0.0      | 19.5                    | 19.28                                           | 135     | 0         | Left          | 10           | 0.193                  | 1.052                | 0.116                  | 0.116                  | 0.073                   |        | 28.6         |                      |                  |  |
| ANSI/IEEE C95.1.1992 - SAFETY LIMIT                      |                 |                 |                      |      |               |            |                  |                 |           |            |          |                         | Body<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |         |           |               |              |                        |                      |                        |                        |                         |        |              |                      |                  |  |
| Spatial Peak<br>Uncontrolled Exposure/General Population |                 |                 |                      |      |               |            |                  |                 |           |            |          |                         |                                                 |         |           |               |              |                        |                      |                        |                        |                         |        |              |                      |                  |  |

Table 12-64

| Exposure                                                 | Band / Mode     | Bandwidth [MHz] | Ant. | Serial Number | Duty Cycle | Power Drift [dB] | Frequency [MHz] | Channel # | Waveform | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position | Spacing [mm] | Measured 1g SAR [W/kg]                          | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Pict # | Plimit [dBm] | Overall Plimit [dBm] | EPS Plimit [dBm] |  |  |
|----------------------------------------------------------|-----------------|-----------------|------|---------------|------------|------------------|-----------------|-----------|----------|-------------------------|-----------------------|---------------|--------------|-------------------------------------------------|----------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|--|--|
| Body-worn/Hotspot                                        | NR Band n77 DoD | 100             | C    | 0820M         | 1:1        | 0.03             | 3500.01         | 633334    | CW/SRS   | 15.0                    | 14.45                 | Back          | 10           | 0.096                                           | 1.135                | 0.109                  | 0.109                  | 0.068                   |        | 24.6         |                      |                  |  |  |
| Body-worn/Hotspot                                        | NR Band n77     | 100             | C    | 0820M         | 1:1        | -0.02            | 3930.00         | 662000    | CW/SRS   | 15.0                    | 13.69                 | Back          | 10           | 0.094                                           | 1.352                | 0.127                  | 0.127                  | 0.079                   |        | 23.9         |                      |                  |  |  |
| Hotspot                                                  | NR Band n77     | 100             | C    | 0820M         | 1:1        | 0.12             | 3930.00         | 662000    | CW/SRS   | 15.0                    | 13.69                 | Front         | 10           | 0.096                                           | 1.352                | 0.076                  | 0.076                  | 0.048                   |        | 26.2         |                      |                  |  |  |
| Hotspot                                                  | NR Band n77     | 100             | C    | 0820M         | 1:1        | 0.08             | 3930.00         | 662000    | CW/SRS   | 15.0                    | 13.69                 | Bottom        | 10           | 0.044                                           | 1.352                | 0.032                  | 0.032                  | 0.020                   |        | 29.8         |                      |                  |  |  |
| Hotspot                                                  | NR Band n77 DoD | 100             | C    | 0820M         | 1:1        | 0.00             | 3500.01         | 633334    | CW/SRS   | 15.0                    | 14.45                 | Right         | 10           | 0.138                                           | 1.135                | 0.157                  | 0.157                  | 0.098                   |        | 23.0         |                      |                  |  |  |
| Hotspot                                                  | NR Band n77     | 100             | C    | 0820M         | 1:1        | 0.00             | 3930.00         | 662000    | CW/SRS   | 15.0                    | 13.69                 | Right         | 10           | 0.139                                           | 1.352                | 0.188                  | 0.188                  | 0.118                   |        | 22.2         |                      |                  |  |  |
| ANSI/IEEE C95.1.1992 - SAFETY LIMIT                      |                 |                 |      |               |            |                  |                 |           |          |                         |                       |               |              | Body<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |                      |                        |                        |                         |        |              |                      |                  |  |  |
| Special Peak<br>Uncontrolled Exposure/General Population |                 |                 |      |               |            |                  |                 |           |          |                         |                       |               |              |                                                 |                      |                        |                        |                         |        |              |                      |                  |  |  |

Table 12-65

| Exposure                                                 | Band / Mode     | Bandwidth [MHz] | Ant. | Serial Number | Duty Cycle | Power Drift [dB] | Frequency [MHz] | Channel # | Waveform | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor                            | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Pict # | Plimit [dBm] | Overall Plimit [dBm] | EPS Plimit [dBm] |
|----------------------------------------------------------|-----------------|-----------------|------|---------------|------------|------------------|-----------------|-----------|----------|-------------------------|-----------------------|---------------|--------------|------------------------|-------------------------------------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|
| Body-worn/Hotspot                                        | NR Band n77 DoD | 100             | I    | 0820M         | 1:1        | 0.04             | 3500.01         | 633334    | CW/SRS   | 19.5                    | 18.49                 | Back          | 10           | 0.085                  | 1.262                                           | 0.107                  | 0.107                  | 0.067                   |        | 29.1         |                      |                  |
| Body-worn/Hotspot                                        | NR Band n77     | 100             | I    | 0820M         | 1:1        | 0.19             | 3930.00         | 662000    | CW/SRS   | 19.5                    | 19.34                 | Back          | 10           | 0.088                  | 1.038                                           | 0.091                  | 0.091                  | 0.057                   |        | 29.8         |                      |                  |
| Hotspot                                                  | NR Band n77 DoD | 100             | I    | 0820M         | 1:1        | 0.05             | 3500.01         | 633334    | CW/SRS   | 19.5                    | 18.49                 | Front         | 10           | 0.099                  | 1.262                                           | 0.125                  | 0.125                  | 0.078                   |        | 28.5         | 26.9                 | 18.5             |
| Hotspot                                                  | NR Band n77     | 100             | I    | 0820M         | 1:1        | 0.13             | 3930.00         | 662000    | CW/SRS   | 19.5                    | 19.34                 | Front         | 10           | 0.119                  | 1.038                                           | 0.180                  | 0.180                  | 0.113                   |        | 26.9         |                      |                  |
| Hotspot                                                  | NR Band n77     | 100             | I    | 0820M         | 1:1        | 0.14             | 3930.00         | 662000    | CW/SRS   | 19.5                    | 19.34                 | Left          | 10           | 0.074                  | 1.038                                           | 0.077                  | 0.077                  | 0.048                   |        | 30.6         |                      |                  |
| ANSI/IEEE C95.1.1992 - SAFETY LIMIT                      |                 |                 |      |               |            |                  |                 |           |          |                         |                       |               |              |                        | Body<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |                        |                        |                         |        |              |                      |                  |
| Spatial Peak<br>Uncontrolled Exposure/General Population |                 |                 |      |               |            |                  |                 |           |          |                         |                       |               |              |                        |                                                 |                        |                        |                         |        |              |                      |                  |

Table 12-66

| Exposure                                                 | Band / Mode     | Bandwidth [kHz] | Ant. | Serial Number | Duty Cycle | Power Drift [dB] | Frequency [MHz] | Channel # | Waveform | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position | Spacing [mm] | Measured 1g SAR [W/kg]                          | Power Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Pict # | Plimit [dBm] | Overall Plimit [dBm] | EPS Plimit [dBm] |
|----------------------------------------------------------|-----------------|-----------------|------|---------------|------------|------------------|-----------------|-----------|----------|-------------------------|-----------------------|---------------|--------------|-------------------------------------------------|----------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|
| Body-worn/Hotspot                                        | NR Band n77 DoD | 100             | D    | 0820M         | 1:1        | -0.02            | 3500.01         | 633334    | CW/SRS   | 15.0                    | 14.76                 | Back          | 10           | 0.117                                           | 1.057                | 0.124                  | 0.124                  | 0.078                   |        | 24.0         |                      |                  |
| Body-worn/Hotspot                                        | NR Band n77     | 100             | D    | 0820M         | 1:1        | 0.05             | 3750.00         | 650000    | CW/SRS   | 15.0                    | 14.34                 | Back          | 10           | 0.093                                           | 1.164                | 0.108                  | 0.108                  | 0.068                   |        | 24.6         |                      |                  |
| Hotspot                                                  | NR Band n77     | 100             | D    | 0820M         | 1:1        | 0.04             | 3750.00         | 650000    | CW/SRS   | 15.0                    | 14.34                 | Front         | 10           | 0.095                                           | 1.164                | 0.096                  | 0.096                  | 0.064                   |        | 37.3         | 24.0                 | 14.0             |
| Hotspot                                                  | NR Band n77     | 100             | D    | 0820M         | 1:1        | 0.13             | 3750.00         | 650000    | CW/SRS   | 15.0                    | 14.34                 | Bottom        | 10           | 0.024                                           | 1.164                | 0.028                  | 0.028                  | 0.018                   |        | 30.5         |                      |                  |
| Hotspot                                                  | NR Band n77     | 100             | D    | 0820M         | 1:1        | 0.07             | 3750.00         | 650000    | CW/SRS   | 15.0                    | 14.34                 | Left          | 10           | 0.003                                           | 1.164                | 0.003                  | 0.003                  | 0.002                   |        | 39.5         |                      |                  |
| ANSI/IEEE C95.1.1992 - SAFETY LIMIT                      |                 |                 |      |               |            |                  |                 |           |          |                         |                       |               |              | Body<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |                      |                        |                        |                         |        |              |                      |                  |
| Spatial Peak<br>Uncontrolled Exposure/General Population |                 |                 |      |               |            |                  |                 |           |          |                         |                       |               |              |                                                 |                      |                        |                        |                         |        |              |                      |                  |

|                                             |                                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |
|---------------------------------------------|--------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------------------------------|--|--|--|--|--|--|--|--|--|
| FCC ID: A3LSMS938B                          | RF EXPOSURE PART 1 TEST REPORT |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Approved by:<br>Technical Manager |  |  |  |  |  |  |  |  |  |
| Document S/N:<br>1M2408260069-01.A3L (Rev1) | DUT Type:<br>Portable Handset  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Page 104 of 131                   |  |  |  |  |  |  |  |  |  |



## 12.17 2.4 GHz WIFI SISO Standalone SAR

Table 12-67

### 2.4 GHz WIFI Antenna H Head Spot-check Verification for Data Referencing

| Exposure                                                                                        | Band / Mode                 | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle [%] | Power Drift [dB] | Frequency [MHz] | Channel # | Data Rate [Mbps] | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position                                   | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Duty Cycle Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | PLimit [dBm] | Overall PLimit [dBm] | RF5 PLimit [dBm] | Reported 1g SAR for Reference model [W/kg] |
|-------------------------------------------------------------------------------------------------|-----------------------------|-----------------|----------------------|------|---------------|----------------|------------------|-----------------|-----------|------------------|-------------------------|-----------------------|-------------------------------------------------|--------------|------------------------|----------------------|---------------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|--------------------------------------------|
| Head                                                                                            | 2.4 GHz WIFI / IEEE 802.11b | 22              | DSSS                 | H    | 0742M         | 98.74          | 0.01             | 2412.00         | 1         | 1                | 17.0                    | 16.80                 | Right Cheek                                     | 0            | 0.720                  | 1.047                | 1.013                     | 0.764                  | 0.764                  | 0.478                   | A40    | 18.1         | 18.1                 | 16.0             | 0.784                                      |
| 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 12-68

### 2.4 GHz WIFI Antenna J Head Spot-check Verification for Data Referencing

| Exposure                                                                                        | Band / Mode                 | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle [%] | Power Drift [dB] | Frequency [MHz] | Channel # | Data Rate [Mbps] | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position                                   | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Duty Cycle Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | PLimit [dBm] | Overall PLimit [dBm] | RF5 PLimit [dBm] | Reported 1g SAR for Reference model [W/kg] |
|-------------------------------------------------------------------------------------------------|-----------------------------|-----------------|----------------------|------|---------------|----------------|------------------|-----------------|-----------|------------------|-------------------------|-----------------------|-------------------------------------------------|--------------|------------------------|----------------------|---------------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|--------------------------------------------|
| Head                                                                                            | 2.4 GHz WIFI / IEEE 802.11b | 22              | DSSS                 | J    | 0742M         | 97.51          | 0.00             | 2412.00         | 1         | 1                | 17.0                    | 16.99                 | Left Cheek                                      | 0            | 0.294                  | 1.002                | 1.026                     | 0.302                  | 0.302                  | 0.189                   |        | 22.1         | 22.1                 | 16.0             | 0.431                                      |
| 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 12-69

### 2.4 GHz WIFI Antenna H Body-worn/Hotspot Spot-check Verification for Data Referencing

| Exposure                                                                                        | Band / Mode                 | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle [%] | Power Drift [dB] | Frequency [MHz] | Channel # | Data Rate [Mbps] | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position                                   | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Duty Cycle Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | PLimit [dBm] | Overall PLimit [dBm] | RF5 PLimit [dBm] | Reported 1g SAR for Reference model [W/kg] |
|-------------------------------------------------------------------------------------------------|-----------------------------|-----------------|----------------------|------|---------------|----------------|------------------|-----------------|-----------|------------------|-------------------------|-----------------------|-------------------------------------------------|--------------|------------------------|----------------------|---------------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|--------------------------------------------|
| Body-worn                                                                                       | 2.4 GHz WIFI / IEEE 802.11b | 22              | DSSS                 | H    | 0742M         | 98.74          | 0.02             | 2412.00         | 11        | 1                | 20.0                    | 19.97                 | Back                                            | 10           | 0.329                  | 1.007                | 1.013                     | 0.336                  | 0.336                  | 0.210                   | A50    | 24.7         | 20.9                 | 19.5             | 0.394                                      |
| Hotspot                                                                                         | 2.4 GHz WIFI / IEEE 802.11b | 22              | DSSS                 | H    | 0742M         | 98.74          | 0.03             | 2412.00         | 11        | 1                | 20.0                    | 19.97                 | Left                                            | 10           | 0.794                  | 1.007                | 1.013                     | 0.810                  | 0.810                  | 0.506                   | A51    | 20.9         |                      |                  | 0.795                                      |
| 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 12-70

### 2.4 GHz WIFI Antenna J Body-worn/Hotspot Spot-check Verification for Data Referencing

| Exposure                                                                                        | Band / Mode                 | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle [%] | Power Drift [dB] | Frequency [MHz] | Channel # | Data Rate [Mbps] | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position                                   | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Duty Cycle Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | PLimit [dBm] | Overall PLimit [dBm] | RF5 PLimit [dBm] | Reported 1g SAR for Reference model [W/kg] |
|-------------------------------------------------------------------------------------------------|-----------------------------|-----------------|----------------------|------|---------------|----------------|------------------|-----------------|-----------|------------------|-------------------------|-----------------------|-------------------------------------------------|--------------|------------------------|----------------------|---------------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|--------------------------------------------|
| Body-worn                                                                                       | 2.4 GHz WIFI / IEEE 802.11b | 22              | DSSS                 | J    | 0742M         | 97.51          | -0.05            | 2412.00         | 1         | 1                | 20.0                    | 19.93                 | Back                                            | 10           | 0.065                  | 1.175                | 1.026                     | 0.078                  | 0.272                  | 0.170                   |        | 31.0         | 30.3                 | 25.4             | 0.071                                      |
| Hotspot                                                                                         | 2.4 GHz WIFI / IEEE 802.11b | 22              | DSSS                 | J    | 0742M         | 97.51          | 0.09             | 2412.00         | 1         | 1                | 20.0                    | 19.93                 | Front                                           | 10           | 0.077                  | 1.175                | 1.026                     | 0.093                  | 0.322                  | 0.201                   |        | 30.3         |                      |                  | 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 |              |                        |                      |                           |                        |                        |                         |        |              |                      |                  |                                            |

## 12.18 2.4 GHz WIFI MIMO Standalone SAR

Table 12-71

### 2.4 GHz WIFI Antenna MIMO Head Spot-check Verification for Data Referencing

| Exposure                                                                                        | Band / Mode                 | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle [%] | Power Drift [dB] | Frequency [MHz] | Channel # | Data Rate [Mbps] | Max Allowed Power [dBm] | Conducted Power [dBm] | Max Allowed Power (2nd ant) [dBm] | Conducted Power (2nd ant) [dBm]                | Test Position | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Duty Cycle Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | PLimit [dBm] | Overall PLimit [dBm] | RF5 PLimit [dBm] | Reported 1g SAR for Reference model [W/kg] |
|-------------------------------------------------------------------------------------------------|-----------------------------|-----------------|----------------------|------|---------------|----------------|------------------|-----------------|-----------|------------------|-------------------------|-----------------------|-----------------------------------|------------------------------------------------|---------------|--------------|------------------------|----------------------|---------------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|--------------------------------------------|
| Head                                                                                            | 2.4 GHz (WIFI) IEEE 802.11g | 20              | OFDM                 | MIMO | 0742M         | 97.68          | 0.00             | 2412.00         | 1         | 6                | 17.0                    | 15.87                 | 17.0                              | 16.87                                          | Right Cheek   | 0            | 0.561                  | 1.297                | 1.024                     | 0.745                  | 0.745                  | 0.466                   |        | 18.2         | 18.2                 | 16.0             | 0.635                                      |
| ANSI/IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |                             |                 |                      |      |               |                |                  |                 |           |                  |                         |                       |                                   | Head<br>2 W/kg (mW/g)<br>averaged over 10 gram |               |              |                        |                      |                           |                        |                        |                         |        |              |                      |                  |                                            |

Note: To achieve the 20 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 17 dBm.

Note: To achieve the 20 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 17 dBm.

Table 12-72

### 2.4 GHz WIFI Antenna MIMO Body-worn/Hotspot Spot-check Verification for Data Referencing

| Exposure                                                                                        | Band / Mode                 | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle [%] | Power Drift [dB] | Frequency [MHz] | Channel # | Data Rate [Mbps] | Max Allowed Power [dBm] | Conducted Power [dBm] | Max Allowed Power (2nd ant) [dBm] | Conducted Power (2nd ant) [dBm]                 | Test Position | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Duty Cycle Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | PLimit [dBm] | Overall PLimit [dBm] | RF5 PLimit [dBm] | Reported 1g SAR for Reference Model [W/kg] |
|-------------------------------------------------------------------------------------------------|-----------------------------|-----------------|----------------------|------|---------------|----------------|------------------|-----------------|-----------|------------------|-------------------------|-----------------------|-----------------------------------|-------------------------------------------------|---------------|--------------|------------------------|----------------------|---------------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|--------------------------------------------|
| Body-worn                                                                                       | 2.4 GHz WIFI / IEEE 802.11a | 20              | OFDM                 | MIMO | 0742M         | 97.68          | 0.03             | 2412.00         | 1         | 6                | 18.0                    | 17.56                 | 18.0                              | 17.33                                           | Back          | 10           | 0.321                  | 1.168                | 1.024                     | 0.264                  | 0.365                  | 0.228                   |        | 23.7         | 20.6                 | 19.4             | 0.274                                      |
| Hotspot                                                                                         | 2.4 GHz WIFI / IEEE 802.11a | 20              | OFDM                 | MIMO | 0742M         | 97.68          | 0.00             | 2412.00         | 1         | 6                | 18.0                    | 17.56                 | 18.0                              | 17.33                                           | Left          | 10           | 0.481                  | 1.168                | 1.024                     | 0.244                  | 0.732                  | 0.426                   |        |              |                      |                  | 0.487                                      |
| 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: A3LSMS938B                          | RF EXPOSURE PART 1 TEST REPORT | Approved by:<br>Technical Manager |
| Document S/N:<br>1M2408260069-01.A3L (Rev1) | DUT Type:<br>Portable Handset  | Page 105 of 131                   |

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## 12.19 5 GHz WIFI SISO Standalone SAR

Table 12-73

### 5 GHz WIFI Antenna H Head Spot-check Verification for Data Referencing

| Exposure                                                                                        | Band / Mode                | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle [%] | Power DfH [dB] | Frequency [MHz] | Channel # | U-NII band | Data Rate [Mbps] | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position                                   | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Duty Cycle Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | Plimit [dBm] | Overall Plimit [dBm] | EPS Plimit [dBm] | Reported 1g SAR for Reference model [W/kg] |
|-------------------------------------------------------------------------------------------------|----------------------------|-----------------|----------------------|------|---------------|----------------|----------------|-----------------|-----------|------------|------------------|-------------------------|-----------------------|-------------------------------------------------|--------------|------------------------|----------------------|---------------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|--------------------------------------------|
| Head                                                                                            | 5 GHz WiFi / IEEE 802.11ac | 80              | OFDM                 | H    | 0742M         | 91.35          | 0.00           | 5610.00         | 122       | U-NII-2C   | 29.3             | 16.0                    | 14.95                 | Right Cheek                                     | 0            | 0.639                  | 1.274                | 1.095                     | 0.891                  | 0.891                  | 0.557                   | A52    | 16.5         | 16.5                 | 15.0             | 0.798                                      |
| 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 12-74

### 5 GHz WIFI Antenna E Head Spot-check Verification for Data Referencing

| Exposure                                                                                        | Band / Mode                | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle [%] | Power DfH [dB] | Frequency [MHz] | Channel # | U-NII band | Data Rate [Mbps] | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position                                   | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Duty Cycle Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | Plimit [dBm] | Overall Plimit [dBm] | EPS Plimit [dBm] | Reported 1g SAR for Reference model [W/kg] |
|-------------------------------------------------------------------------------------------------|----------------------------|-----------------|----------------------|------|---------------|----------------|----------------|-----------------|-----------|------------|------------------|-------------------------|-----------------------|-------------------------------------------------|--------------|------------------------|----------------------|---------------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|--------------------------------------------|
| Head                                                                                            | 5 GHz WiFi / IEEE 802.11ac | 80              | OFDM                 | E    | 0742M         | 96.96          | 0.09           | 5290.00         | 58        | U-NII-2A   | 29.3             | -16.0                   | -15.52                | Right TIR                                       | 0            | 0.342                  | 1.117                | 1.031                     | 0.394                  | 0.394                  | 0.246                   |        | 20.0         | 20.0                 | 15.0             | 0.508                                      |
| ANSI/IEEE C95.1 1992 - SAR TV LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |                            |                 |                      |      |               |                |                |                 |           |            |                  |                         |                       | Head<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |              |                        |                      |                           |                        |                        |                         |        |              |                      |                  |                                            |

Table 12-75

### 5 GHz WIFI Antenna H Body-worn/Hotspot Spot-check Verification for Data Referencing

| Exposure                                 | Band / Mode                | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle [%] | Power Drift [dB] | Frequency [MHz] | Channel # | U-NII band | Data Rate [Mbps] | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Duty Cycle Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | PLimit [dBm] | Overall PLimit [dBm] | EPS PLimit [dBm] | Reported 1g SAR for Reference model [W/kg] |
|------------------------------------------|----------------------------|-----------------|----------------------|------|---------------|----------------|------------------|-----------------|-----------|------------|------------------|-------------------------|-----------------------|---------------|--------------|------------------------|----------------------|---------------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|--------------------------------------------|
| Body worn                                | 5 GHz WIFI / IEEE 802.11ac | 80              | OFDM                 | H    | 0700M         | 91.35          | 0.06             | 5610.00         | 122       | U-NII-2C   | 58.5             | 16.0                    | 14.95                 | Back          | 10           | 0.196                  | 1.274                | 1.095                     | 0.273                  | 0.273                  | 0.171                   |        | 21.6         | 19.1                 | 15.0             | 0.232                                      |
| Hotspot                                  | 5 GHz WIFI / IEEE 802.11ac | 80              | OFDM                 | H    | 0742M         | 91.35          | -0.03            | 5775.00         | 135       | U-NII-3    | 58.5             | 16.0                    | 15.20                 | Left          | 10           | 0.364                  | 1.250                | 1.095                     | 0.479                  | 0.479                  | 0.299                   | A54    | 19.1         |                      | 0.402            |                                            |
| 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 12-76

### 5 GHz WIFI Antenna E Body-worn/Hotspot Spot-check Verification for Data Referencing

| Exposure                                 | Band / Mode                | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle [%] | Power DfH [dB] | Frequency [MHz] | Channel # | U-NII band | Data Rate [Mbps] | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Duty Cycle Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | Plimit [dBm] | Overall Plimit [dBm] | EPS Plimit [dBm] | Reported 1g SAR for Reference model [W/kg] |
|------------------------------------------|----------------------------|-----------------|----------------------|------|---------------|----------------|----------------|-----------------|-----------|------------|------------------|-------------------------|-----------------------|---------------|--------------|------------------------|----------------------|---------------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|--------------------------------------------|
| Body worn                                | 5 GHz WIFI / IEEE 802.11ac | 80              | OFDM                 | E    | 0742M         | 56.56          | 0.07           | 5855.00         | 171       | U-NII-4    | 29.3             | 16.0                    | 15.96                 | Back          | 10           | 0.314                  | 1.009                | 1.031                     | 0.347                  | 0.347                  | 0.217                   |        | 20.5         | 20.5                 | 15.0             | 0.383                                      |
|                                          |                            |                 |                      |      | 0742M         | 56.56          | -0.11          | 5775.00         | 135       | U-NII-3    | 29.3             | 16.0                    | 15.84                 | Back          | 10           | 0.264                  | 1.038                | 1.031                     | 0.283                  | 0.283                  | 0.177                   |        | 21.4         |                      |                  | 0.293                                      |
| 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 12-77

### 5 GHz WIFI Antenna H Phablet Spot-check Verification for Data Referencing

|                                          | Band / Mode                | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle [%] | Power DfH [dB] | Frequency [MHz] | Channel # | U-NII band | Data Rate [Mbps] | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position   | Spacing [mm] | Measured 10g SAR [W/kg] | Power Scaling Factor | Duty Cycle Scaling Factor | Reported 10g SAR [W/kg] | Adjusted 10g SAR [W/kg] | Exposure Ratio (10g SAR) | Plot # | Plimit [dBm] | Overall Plimit [dBm]   | EPS Plimit [dBm] | Reported 10g SAR for Reference model [W/kg] |  |
|------------------------------------------|----------------------------|-----------------|----------------------|------|---------------|----------------|----------------|-----------------|-----------|------------|------------------|-------------------------|-----------------------|-----------------|--------------|-------------------------|----------------------|---------------------------|-------------------------|-------------------------|--------------------------|--------|--------------|------------------------|------------------|---------------------------------------------|--|
| Phablet                                  | 5 GHz WIFI / IEEE 802.11ac | 80              | OFDM                 | H    | 0742M         | 91.35          | -0.05          | 56.10.00        | 122       | U-NII-2C   | 58.5             | -16.0                   | -14.95                | Left            | 0            | 1.300                   | 1.274                | 1.095                     | 1.824                   | 1.814                   | 0.454                    | A05    | 17.0         | 17.0                   | 15.0             | 1.871                                       |  |
| ANSI/IEEE C95.1 1992 - SAFETY LIMIT      |                            |                 |                      |      |               |                |                |                 |           |            |                  |                         |                       |                 |              |                         |                      |                           |                         |                         |                          |        |              |                        |                  |                                             |  |
| Spatial Peak                             |                            |                 |                      |      |               |                |                |                 |           |            |                  |                         |                       | Phablet         |              |                         |                      |                           |                         |                         |                          |        |              |                        |                  |                                             |  |
| Uncontrolled Exposure/General Population |                            |                 |                      |      |               |                |                |                 |           |            |                  |                         |                       | 4.0 W/kg (mW/g) |              |                         |                      |                           |                         |                         |                          |        |              | averaged over 10 grams |                  |                                             |  |

Table 12-78

### 5 GHz WIFI Antenna E Phablet Spot-check Verification for Data Referencing

| Exposure                                                                                        | Band / Mode                | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle [%] | Power DfH [dB] | Frequency [MHz] | Channel # | U-NII band | Data Rate [Mbps] | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position                                        | Spacing [mm] | Measured 10g SAR [W/kg] | Power Scaling Factor | Duty Cycle Scaling Factor | Reported 10g SAR [W/kg] | Adjusted 10g SAR [W/kg] | Exposure Ratio (10g SAR) | Plot # | Plimit [dBm] | Overall Plimit [dBm] | EPS Plimit [dBm] | Reported 10g SAR for Reference model [W/kg] |
|-------------------------------------------------------------------------------------------------|----------------------------|-----------------|----------------------|------|---------------|----------------|----------------|-----------------|-----------|------------|------------------|-------------------------|-----------------------|------------------------------------------------------|--------------|-------------------------|----------------------|---------------------------|-------------------------|-------------------------|--------------------------|--------|--------------|----------------------|------------------|---------------------------------------------|
| Phablet                                                                                         | 5 GHz WiFi / IEEE 802.11ac | 80              | OFDM                 | E    | 0742M         | 96.96          | -0.07          | 5855.00         | 171       | U-NII-4    | 29.3             | 16.0                    | 15.96                 | Back                                                 | 0            | 0.343                   | 1.009                | 1.031                     | 0.357                   | 0.357                   | 0.089                    |        | 24.4         | 24.4                 | 15.0             | 0.383                                       |
| 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: A3LSMS938B                          | RF EXPOSURE PART 1 TEST REPORT |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Approved by:<br>Technical Manager |  |  |  |  |  |  |  |
| Document S/N:<br>1M2408260069-01.A3L (Rev1) | DUT Type:<br>Portable Handset  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Page 106 of 131                   |  |  |  |  |  |  |  |

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## 12.20 5 GHz WIFI MIMO Standalone SAR

Table 12-79

### 5 GHz WIFI Antenna MIMO Head Spot-check Verification for Data Referencing

| Exposure                                                                                        | Band / Mode              | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle [%] | Power Drift [dB] | Frequency [MHz] | Channel # | U-NII band | Data Rate [Mbps] | Max Allowed Power [dBm] | Conducted Power [dBm] | Max Allowed Power (2nd ant) [dBm] | Conducted Power (2nd ant) [dBm] | Test Position                                   | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Duty Cycle Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | Plimit [dBm] | Overall Plimit [dBm] | EPS Plimit [dBm] | Reported 1g SAR for Reference Model [W/kg] |
|-------------------------------------------------------------------------------------------------|--------------------------|-----------------|----------------------|------|---------------|----------------|------------------|-----------------|-----------|------------|------------------|-------------------------|-----------------------|-----------------------------------|---------------------------------|-------------------------------------------------|--------------|------------------------|----------------------|---------------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|--------------------------------------------|
| Head                                                                                            | 5 GHz WIFI IEEE 802.11ac | 80              | OFDM                 | MIMO | 0742M         | 92.29          | -0.02            | 5620.00         | 122       | U-NII-2C   | 58.5             | 16.0                    | 14.36                 | 16.0                              | 15.76                           | Right Cheek                                     | 0            | 0.476                  | 1.450                | 1.084                     | 0.750                  | 0.750                  | 0.469                   |        | 12.2         | 12.2                 | 15.0             | 0.797                                      |
| ANSI/IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |                          |                 |                      |      |               |                |                  |                 |           |            |                  |                         |                       |                                   |                                 | Head<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |              |                        |                      |                           |                        |                        |                         |        |              |                      |                  |                                            |

Note: To achieve the 10 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 16 dBm.

Table 12-80

### 5 GHz WIFI Antenna MIMO Body-worn/Hotspot Spot-check Verification for Data Referencing

| Exposure                                                                                        | Band / Mode              | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle [%] | Power Drift [dB] | Frequency [MHz] | Channel # | U-NII band | Data Rate [Mbps] | Max Allowed Power [dBm] | Conducted Power [dBm] | Max Allowed Power (2nd ant) [dBm] | Conducted Power (2nd ant) [dBm] | Test Position                                   | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Duty Cycle Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | Plimit [dBm] | Overall Plimit [dBm] | EPS Plimit [dBm] | Reported 1g SAR for Reference Model [W/kg] |
|-------------------------------------------------------------------------------------------------|--------------------------|-----------------|----------------------|------|---------------|----------------|------------------|-----------------|-----------|------------|------------------|-------------------------|-----------------------|-----------------------------------|---------------------------------|-------------------------------------------------|--------------|------------------------|----------------------|---------------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|--------------------------------------------|
| Body-worn                                                                                       | 5 GHz WIFI IEEE 802.11ac | 80              | OFDM                 | MIMO | 0742M         | 92.29          | -0.01            | 5855.00         | 171       | U-NII-3    | 58.5             | 16.0                    | 14.94                 | 16.0                              | 15.39                           | Back                                            | 10           | 0.340                  | 1.276                | 1.084                     | 0.477                  | 0.477                  | 0.208                   | A13    | 19.2         | 19.2                 | 15.0             | 0.410                                      |
| Hotspot                                                                                         | 5 GHz WIFI IEEE 802.11ac | 80              | OFDM                 | MIMO | 0742M         | 99.67          | -0.01            | 5775.00         | 135       | U-NII-3    | 58.5             | 16.0                    | 14.80                 | 16.0                              | 15.38                           | Back                                            | 10           | 0.249                  | 1.385                | 1.085                     | 0.372                  | 0.372                  | 0.235                   |        | 19.2         | 19.2                 | 15.0             | 0.406                                      |
| 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: To achieve the 10 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 16 dBm.

Table 12-81

### 5 GHz WIFI Antenna MIMO Phablet Spot-check Verification for Data Referencing

| Exposure                                                                                        | Band / Mode              | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle [%] | Power Drift [dB] | Frequency [MHz] | Channel # | U-NII band | Data Rate [Mbps] | Max Allowed Power [dBm] | Conducted Power [dBm] | Max Allowed Power (2nd ant) [dBm] | Conducted Power (2nd ant) [dBm] | Test Position                                        | Spacing [mm] | Measured 10g SAR [W/kg] | Power Scaling Factor | Duty Cycle Scaling Factor | Reported 10g SAR [W/kg] | Adjusted 10g SAR [W/kg] | Exposure Ratio (10g SAR) | Plot # | Plimit [dBm] | Overall Plimit [dBm] | EPS Plimit [dBm] | Reported 10g SAR for Reference Model [W/kg] |
|-------------------------------------------------------------------------------------------------|--------------------------|-----------------|----------------------|------|---------------|----------------|------------------|-----------------|-----------|------------|------------------|-------------------------|-----------------------|-----------------------------------|---------------------------------|------------------------------------------------------|--------------|-------------------------|----------------------|---------------------------|-------------------------|-------------------------|--------------------------|--------|--------------|----------------------|------------------|---------------------------------------------|
| Phablet                                                                                         | 5 GHz WIFI IEEE 802.11ac | 80              | OFDM                 | MIMO | 0742M         | 92.29          | -0.03            | 5610.00         | 122       | U-NII-2C   | 58.5             | 16.0                    | 14.36                 | 16.0                              | 15.76                           | Left                                                 | 0            | 1.805                   | 1.453                | 1.084                     | 1.582                   | 1.582                   | 0.395                    |        | 17.9         | 17.9                 | 15.0             | 1.836                                       |
| ANSI/IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |                          |                 |                      |      |               |                |                  |                 |           |            |                  |                         |                       |                                   |                                 | Phablet<br>4.0 W/kg (mW/g)<br>averaged over 10 grams |              |                         |                      |                           |                         |                         |                          |        |              |                      |                  |                                             |

Note: To achieve the 10 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 16 dBm.

## 12.21 6 GHz WIFI SISO Standalone SAR and APD

Table 12-82

| Exposure                                 | Band / Mode              | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle [%] | Power Drift [dB] | Frequency [MHz] | Channel # | Data Rate [Mbps] | Max Allowed Power [dBm] | Conducted Power [dBm] | Max Allowed Power (2nd ant) [dBm] | Conducted Power (2nd ant) [dBm] | Test Position | Spacing [mm]         | Measured 1g SAR [W/kg] | Power Scaling Factor | Duty Cycle Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | Plimit [dBm] | Overall Plimit [dBm] | EPS Plimit [dBm] |  |  |
|------------------------------------------|--------------------------|-----------------|----------------------|------|---------------|----------------|------------------|-----------------|-----------|------------------|-------------------------|-----------------------|-----------------------------------|---------------------------------|---------------|----------------------|------------------------|----------------------|---------------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|--|--|
| Head                                     | 6 GHz WIFI IEEE 802.11ax | 40              | OFDM                 | H    | 0835M         | 99.67          | -0.15            | 5965.00         | 3         | 16.3             | 17.0                    | 16.87                 | Right Cheek                       | 0                               | 0.809         | 1.030                | 1.003                  | 0.836                | 0.836                     | 0.523                  |                        | 17.7                    |        |              |                      |                  |  |  |
| Head                                     | 6 GHz WIFI IEEE 802.11ax | 40              | OFDM                 | H    | 0835M         | 99.67          | -0.04            | 6285.00         | 67        | 16.3             | 17.0                    | 16.76                 | Right Cheek                       | 0                               | 0.981         | 1.059                | 1.003                  | 1.042                | 1.042                     | 0.652                  | A55                    | 16.8                    |        |              |                      |                  |  |  |
| Head                                     | 6 GHz WIFI IEEE 802.11ax | 40              | OFDM                 | H    | 0835M         | 99.67          | 0.00             | 6285.00         | 67        | 16.3             | 17.0                    | 16.76                 | Right Cheek                       | 0                               | 0.981         | 1.059                | 1.003                  | 0.937                | 0.937                     | 0.586                  |                        | 17.2                    |        |              |                      |                  |  |  |
| Head                                     | 6 GHz WIFI IEEE 802.11ax | 80              | OFDM                 | H    | 0835M         | 99.67          | 0.00             | 6465.00         | 103       | 34.0             | 16.0                    | 15.56                 | Right Cheek                       | 0                               | 0.676         | 1.107                | 1.003                  | 0.751                | 0.902                     | 0.564                  |                        | 17.2                    |        |              |                      |                  |  |  |
| Head                                     | 6 GHz WIFI IEEE 802.11ax | 40              | OFDM                 | H    | 0835M         | 99.67          | 0.03             | 6685.00         | 147       | 16.3             | 17.0                    | 16.36                 | Right Cheek                       | 0                               | 0.611         | 1.213                | 1.003                  | 0.743                | 0.743                     | 0.464                  |                        | 19.2                    |        |              |                      |                  |  |  |
| Head                                     | 6 GHz WIFI IEEE 802.11ax | 80              | OFDM                 | H    | 0835M         | 99.67          | 0.05             | 7025.00         | 215       | 34.0             | 15.5                    | 15.30                 | Right Cheek                       | 0                               | 0.225         | 1.047                | 1.003                  | 0.236                | 0.319                     | 0.199                  |                        | 17.2                    |        |              |                      |                  |  |  |
| Head                                     | 6 GHz WIFI IEEE 802.11ax | 40              | OFDM                 | H    | 0835M         | 99.67          | 0.05             | 5965.00         | 3         | 16.3             | 17.0                    | 16.87                 | Right Tilt                        | 0                               | 0.319         | 1.030                | 1.003                  | 0.330                | 0.330                     | 0.206                  |                        | 21.8                    |        |              |                      |                  |  |  |
| Head                                     | 6 GHz WIFI IEEE 802.11ax | 40              | OFDM                 | H    | 0835M         | 99.67          | 0.09             | 6285.00         | 67        | 16.3             | 17.0                    | 16.76                 | Right Tilt                        | 0                               | 0.456         | 1.059                | 1.003                  | 0.431                | 0.431                     | 0.209                  |                        | 20.6                    |        |              |                      |                  |  |  |
| Head                                     | 6 GHz WIFI IEEE 802.11ax | 40              | OFDM                 | H    | 0835M         | 99.67          | 0.02             | 5965.00         | 3         | 16.3             | 17.0                    | 16.87                 | Left Cheek                        | 0                               | 0.182         | 1.030                | 1.003                  | 0.188                | 0.188                     | 0.118                  |                        | 24.2                    |        |              |                      |                  |  |  |
| Head                                     | 6 GHz WIFI IEEE 802.11ax | 40              | OFDM                 | H    | 0835M         | 99.67          | -0.09            | 6285.00         | 67        | 16.3             | 17.0                    | 16.76                 | Left Cheek                        | 0                               | 0.182         | 1.059                | 1.003                  | 0.193                | 0.193                     | 0.123                  |                        | 24.1                    |        |              |                      |                  |  |  |
| Head                                     | 6 GHz WIFI IEEE 802.11ax | 40              | OFDM                 | H    | 0835M         | 99.67          | 0.17             | 5965.00         | 3         | 16.3             | 17.0                    | 16.87                 | Left Tilt                         | 0                               | 0.309         | 1.030                | 1.003                  | 0.216                | 0.216                     | 0.135                  |                        | 21.6                    |        |              |                      |                  |  |  |
| Head                                     | 6 GHz WIFI IEEE 802.11ax | 40              | OFDM                 | H    | 0835M         | 99.67          | -0.12            | 6285.00         | 67        | 16.3             | 17.0                    | 16.76                 | Left Tilt                         | 0                               | 0.212         | 1.059                | 1.003                  | 0.225                | 0.225                     | 0.143                  |                        | 24.4                    |        |              |                      |                  |  |  |
| ANSI/IEEE C95.1 1992 - SAFETY LIMIT      |                          |                 |                      |      |               |                |                  |                 |           |                  |                         |                       |                                   |                                 |               | Head                 |                        |                      |                           |                        |                        |                         |        |              |                      |                  |  |  |
| Spatial Peak                             |                          |                 |                      |      |               |                |                  |                 |           |                  |                         |                       |                                   |                                 |               | 1.6 W/kg (mW/g)      |                        |                      |                           |                        |                        |                         |        |              |                      |                  |  |  |
| Uncontrolled Exposure/General Population |                          |                 |                      |      |               |                |                  |                 |           |                  |                         |                       |                                   |                                 |               | averaged over 1 gram |                        |                      |                           |                        |                        |                         |        |              |                      |                  |  |  |

Note: Blue entry represents variability measurement

| Exposure | Band / Mode              | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle [%] | Power Drift [dB] | Frequency [MHz] | Channel # | Data Rate [Mbps] | Max Allowed Power [dBm] | Conducted Power [dBm] | Max Allowed Power (2nd ant) [dBm] | Conducted Power (2nd ant) [dBm] | Test Position | Spacing [mm] | Measured APD [W/m <sup>2</sup> (4cm <sup>2</sup> )] | Power Scaling Factor | Duty Cycle Scaling Factor | Reported APD [W/m <sup>2</sup> (4cm <sup>2</sup> )] | Adjusted APD [W/m <sup>2</sup> (4cm <sup>2</sup> )] | APD Exposure Ratio | Plot # | Plimit [dBm] | Overall Plimit [dBm] | EPS Plimit [dBm] | Reported 1g APD for Reference Model [W/m <sup>2</sup> (4cm <sup>2</sup> )] |
|----------|--------------------------|-----------------|----------------------|------|---------------|----------------|------------------|-----------------|-----------|------------------|-------------------------|-----------------------|-----------------------------------|---------------------------------|---------------|--------------|-----------------------------------------------------|----------------------|---------------------------|-----------------------------------------------------|-----------------------------------------------------|--------------------|--------|--------------|----------------------|------------------|----------------------------------------------------------------------------|
| Head     | 6 GHz WIFI IEEE 802.11ax | 40              | OFDM                 | H    | 0835M         | 99.67          | -0.15            | 5965.00         | 3         | 16.3             | 17.0                    | 16.87                 | 16.3                              | 17.0                            | Right Cheek   | 0            | 4.960                                               | 1.030                | 1.003                     | 5.124                                               | 5.124                                               | 0.256              |        | 21.9         |                      |                  |                                                                            |
| Head     | 6 GHz WIFI IEEE 802.11ax | 40              | OFDM                 | H    | 0835M         | 99.67          | -0.04            | 6285.00         | 67        | 16.3             | 17.0                    | 16.76                 | 16.3                              | 17.0                            | Right Cheek   | 0            | 6.010                                               | 1.059                | 1.003                     | 6.884                                               | 6.884                                               | 0.319              |        | 21.0         |                      |                  |                                                                            |
| Head     | 6 GHz WIFI IEEE 802.11ax | 40              | OFDM                 | H    | 0835M         | 99.67          | -0.04            | 6285.00         | 67        | 16.3             | 17.0                    | 16.76                 | 16.3                              | 17.0                            | Right Cheek   | 0            | 5.410                                               | 1.059                | 1.003                     | 5.746                                               | 5.746                                               | 0.287              |        | 21.4         |                      |                  |                                                                            |
| Head     | 6 GHz WIFI IEEE 802.11ax | 80              | OFDM                 | H    | 0835M         | 99.67          | 0.00             | 6465.00         | 103       | 34.0             | 16.0                    | 15.56                 | 16.3                              | 17.0                            | Right Cheek   | 0            | 4.840                                               | 1.107                | 1.003                     | 4.819                                               | 5.790                                               | 0.290              |        | 21.2         |                      |                  |                                                                            |
| Head     | 6 GHz WIFI IEEE 802.11ax | 40              | OFDM                 | H    | 0835M         | 99.67          | 0.03             | 6685.00         | 147       | 16.3             | 17.0                    | 16.36                 | 16.3                              | 17.0                            | Right Cheek   | 0            | 3.510                                               | 1.213                | 1.003                     | 4.470                                               | 4.770                                               | 0.214              |        | 22.7         |                      |                  |                                                                            |
| Head     | 6 GHz WIFI IEEE 802.11ax | 80              | OFDM                 | H    | 0835M         | 99.67          | 0.03             | 7025.00         | 215       | 34.0             | 15.5                    | 15.30                 | 16.3                              | 17.0                            | Right Cheek   | 0            | 1.210                                               | 1.047                | 1.003                     | 1.271                                               | 1.715                                               | 0.086              |        | 26.5         |                      |                  |                                                                            |
| Head     | 6 GHz WIFI IEEE 802.11ax | 40              | OFDM                 | H    | 0835M         | 99.67          | 0.05             | 5965.00         | 3         | 16.3             | 17.0                    | 16.87                 | 16.3                              | 17.0                            | Right Tilt    | 0            | 2.170                                               | 1.030                | 1.003                     | 2.242                                               | 2.242                                               | 0.112              |        | 25.5         |                      |                  |                                                                            |
| Head     | 6 GHz WIFI IEEE 802.11ax | 40              | OFDM                 | H    | 0835M         | 99.67          | 0.09             | 6285.00         | 67        | 16.3             | 17.0                    | 16.76                 | 16.3                              | 17.0                            | Right Tilt    | 0            | 2.600                                               | 1.059                | 1.003                     | 2.762                                               | 2.762                                               | 0.136              |        | 24.6         |                      |                  |                                                                            |
| Head     | 6 GHz WIFI IEEE 802.11ax | 40              | OFDM                 | H    | 0835M         | 99.67          | 0.02             | 5965.00         | 3         | 16.3             | 17.0                    | 16.87                 | 16.3                              | 17.0                            | Left Cheek    | 0            | 1.480                                               | 1.030                | 1.003                     | 1.384                                               | 1.384                                               | 0.099              |        | 27.6         |                      |                  |                                                                            |
| Head     | 6 GHz WIFI IEEE 802.11ax | 40              | OFDM                 | H    | 0835M         | 99.67          | -0.09            | 6285.00         | 67        | 16.3             | 17.0                    | 16.76                 | 16.3                              | 17.0                            | Left Cheek    | 0            | 1.480                                               | 1.059                | 1.003                     | 1.572                                               | 1.572                                               | 0.079              |        | 27.1         |                      |                  |                                                                            |
| Head     | 6 GHz WIFI IEEE 802.11ax | 40              | OFDM                 | H    | 0835M         | 99.67          | 0.17             | 5965.00         | 3         | 16.3             | 17.0                    | 16.87                 | 16.3                              | 17.0                            | Left Tilt     | 0            | 1.600                                               | 1.030                | 1.003                     | 1.653                                               | 1.653                                               | 0.083              |        | 26.9         |                      |                  |                                                                            |
| Head     | 6 GHz WIFI IEEE 802.11ax | 40              | OFDM                 | H    | 0835M         | 99.67          | -0.12            | 6285.00         | 67        | 16.3             | 17.0                    | 16.76                 | 16.3                              | 17.0                            | Left Tilt     | 0            | 1.440                                               | 1.059                | 1.003                     | 1.742                                               | 1.742                                               | 0.087              |        | 26.6         |                      |                  |                                                                            |

Table 12-83

### 6 GHz WIFI Antenna E Head Spot-check Verification for Data Referencing

| Exposure                                                                                        | Band / Mode                | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle [%] | Power Drift [dB] | Frequency [MHz] | Channel # | Data Rate [Mbps] | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position                                   | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Duty Cycle Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio (1g SAR) | Plot # | Plimit [dBm] | Overall Plimit [dBm] | EPS Plimit [dBm] | Reported 1g SAR for Reference Model [W/kg] |
|-------------------------------------------------------------------------------------------------|----------------------------|-----------------|----------------------|------|---------------|----------------|------------------|-----------------|-----------|------------------|-------------------------|-----------------------|-------------------------------------------------|--------------|------------------------|----------------------|---------------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|--------------------------------------------|
| Head                                                                                            | 6 GHz WiFi / IEEE 802.11ax | 40              | OFDM                 | E    | 0835M         | 99.67          | 0.01             | 6685.00         | 147       | 16.3             | 17.0                    | 16.00                 | Right Cheek                                     | 0            | 0.123                  | 1.259                | 1.003                     | 0.155                  | 0.604                  | 0.378                   |        | 25.0         | 25.0                 | 22.9             | 0.256                                      |
| 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 |              |                        |                      |                           |                        |                        |                         |        |              |                      |                  |                                            |

| Exposure | Band / Mode              | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle [%] | Power Drift [dB] | Frequency [MHz] | Channel # | Data Rate [Mbps] | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position | Spacing [mm] | Measured APD [W/m <sup>2</sup> (4cm <sup>2</sup> )] | Power Scaling Factor | Duty Cycle Scaling Factor | Reported APD [W/m <sup>2</sup> (4cm <sup>2</sup> )] | Adjusted APD [W/m <sup>2</sup> (4cm <sup>2</sup> )] | APD Exposure Ratio | Plot # | Plimit [dBm] | Overall Plimit [dBm] | EPS Plimit [dBm] | Reported 1g APD for Reference Model [W/m <sup>2</sup> (4cm <sup>2</sup> )] |
|----------|--------------------------|-----------------|----------------------|------|---------------|----------------|------------------|-----------------|-----------|------------------|-------------------------|-----------------------|---------------|--------------|-----------------------------------------------------|----------------------|---------------------------|-----------------------------------------------------|-----------------------------------------------------|--------------------|--------|--------------|----------------------|------------------|----------------------------------------------------------------------------|
| Head     | 6 GHz WIFI IEEE 802.11ax | 40              | OFDM                 | E    | 0835M         | 99.67          | -0.01            | 6685.00         | 147       | 16.3             | 17.0                    | 16.00                 | Right Cheek   | 0            | 0.782                                               | 1.259                | 1.003                     | 0.987                                               | 3.842                                               | 0.192              |        | 29.1         | 29.1                 | 22.9             | 1.482                                                                      |

|                                             |                                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                   |  |  |  |  |
|---------------------------------------------|--------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------------------------------|--|--|--|--|
| FCC ID: A3LSMS938B                          | RF EXPOSURE PART 1 TEST REPORT |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Approved by:<br>Technical Manager |  |  |  |  |
| Document S/N:<br>1M2408260069-01.A3L (Rev1) | DUT Type:<br>Portable Handset  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Page 107 of 131                   |  |  |  |  |

Table 12-84

6 GHz WIFI Antenna H Body-worn Spot-check Verification for Data Referencing

| Exposure                                                                                          | Band / Mode                | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle [%] | Power Drift [dB] | Frequency [MHz] | Channel # | Data Rate [Mbps] | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position | Spacing [mm] | Measured 1g SAR [W/kg]                          | Power Scaling Factor | Duty Cycle Scaling Factor | Reported 1g SAR [W/kg]     | Adjusted 1g SAR [W/kg]     | Exposure Ratio (1g SAR) | Plot # | Plimit [dBm] | Overall Plimit [dBm] | EFS Plimit [dBm] | Reported 1g SAR for Reference model [W/kg]        |
|---------------------------------------------------------------------------------------------------|----------------------------|-----------------|----------------------|------|---------------|----------------|------------------|-----------------|-----------|------------------|-------------------------|-----------------------|---------------|--------------|-------------------------------------------------|----------------------|---------------------------|----------------------------|----------------------------|-------------------------|--------|--------------|----------------------|------------------|---------------------------------------------------|
| Body-worn                                                                                         | 6 GHz WiFi / IEEE 802.11ax | 160             | OFDM                 | H    | 0833M         | 99.67          | -0.01            | 6985.00         | 207       | 68.1             | 9.0                     | 8.74                  | Back          | 10           | 0.054                                           | 1.062                | 1.003                     | 0.055                      | 0.055                      | 0.009                   |        | 27.2         | 27.2                 | 8.0              | 0.006                                             |
| ANSI/IEEE C95.1.2-2012 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |                            |                 |                      |      |               |                |                  |                 |           |                  |                         |                       |               |              | Body<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |                      |                           |                            |                            |                         |        |              |                      |                  |                                                   |
| Exposure                                                                                          | Band / Mode                | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle [%] | Power Drift [dB] | Frequency [MHz] | Channel # | Data Rate [Mbps] | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position | Spacing [mm] | Measured APO [W/m² (4cm²)]                      | Power Scaling Factor | Duty Cycle Scaling Factor | Reported APO [W/m² (4cm²)] | Adjusted APO [W/m² (4cm²)] | APD Exposure Ratio      | Plot # | Plimit [dBm] | Overall Plimit [dBm] | EFS Plimit [dBm] | Reported 1g APO for Reference Model [W/m² (4cm²)] |
| Body-worn                                                                                         | 6 GHz WiFi / IEEE 802.11ax | 160             | OFDM                 | H    | 0833M         | 99.67          | -0.01            | 6985.00         | 207       | 68.1             | 9.0                     | 8.74                  | Back          | 10           | 0.127                                           | 1.062                | 1.003                     | 0.135                      | 0.135                      | 0.007                   |        | 29.7         | 29.7                 | 8.0              | 0.057                                             |

Table 12-85

6 GHz WIFI Antenna E Body-worn Spot-check Verification for Data Referencing

| Exposure                                                                                          | Band / Mode                | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle [%] | Power Drift [dB] | Frequency [MHz] | Channel # | Data Rate [Mbps] | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position | Spacing [mm] | Measured 1g SAR [W/kg]                          | Power Scaling Factor | Duty Cycle Scaling Factor | Reported 1g SAR [W/kg]     | Adjusted 1g SAR [W/kg]     | Exposure Ratio (1g SAR) | Plot # | Plimit [dBm] | Overall Plimit [dBm] | EFS Plimit [dBm] | Reported 1g SAR for Reference model [W/kg]        |
|---------------------------------------------------------------------------------------------------|----------------------------|-----------------|----------------------|------|---------------|----------------|------------------|-----------------|-----------|------------------|-------------------------|-----------------------|---------------|--------------|-------------------------------------------------|----------------------|---------------------------|----------------------------|----------------------------|-------------------------|--------|--------------|----------------------|------------------|---------------------------------------------------|
| Body-worn                                                                                         | 6 GHz WiFi / IEEE 802.11ax | 160             | OFDM                 | E    | 0747M         | 99.67          | -0.02            | 6025.00         | 15        | 68.1             | 9.0                     | 8.98                  | Back          | 10           | 0.053                                           | 1.005                | 1.003                     | 0.053                      | 0.053                      | 0.033                   |        | 21.7         | 21.7                 | 8.0              | 0.064                                             |
| ANSI/IEEE C95.1.2-2012 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |                            |                 |                      |      |               |                |                  |                 |           |                  |                         |                       |               |              | Body<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |                      |                           |                            |                            |                         |        |              |                      |                  |                                                   |
| Exposure                                                                                          | Band / Mode                | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle [%] | Power Drift [dB] | Frequency [MHz] | Channel # | Data Rate [Mbps] | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position | Spacing [mm] | Measured APO [W/m² (4cm²)]                      | Power Scaling Factor | Duty Cycle Scaling Factor | Reported APO [W/m² (4cm²)] | Adjusted APO [W/m² (4cm²)] | APD Exposure Ratio      | Plot # | Plimit [dBm] | Overall Plimit [dBm] | EFS Plimit [dBm] | Reported 1g APO for Reference Model [W/m² (4cm²)] |
| Body-worn                                                                                         | 6 GHz WiFi / IEEE 802.11ax | 160             | OFDM                 | E    | 0747M         | 99.67          | -0.02            | 6025.00         | 15        | 68.1             | 9.0                     | 8.98                  | Back          | 10           | 0.427                                           | 1.005                | 1.003                     | 0.430                      | 0.430                      | 0.022                   |        | 24.7         | 24.7                 | 8.0              | 0.517                                             |

Table 12-86

6 GHz WIFI Antenna H Phablet Spot-check Verification for Data Referencing

| Exposure                                                                                          | Band / Mode                | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle [%] | Power Drift [dB] | Frequency [MHz] | Channel # | Data Rate [Mbps] | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position | Spacing [mm] | Measured 10g SAR [W/kg]                              | Power Scaling Factor | Duty Cycle Scaling Factor | Reported 10g SAR [W/kg]    | Adjusted 10g SAR [W/kg]    | Exposure Ratio (10g SAR) | Plot # | Plimit [dBm] | Overall Plimit [dBm] | EFS Plimit [dBm] | Reported 10g SAR for Reference model [W/kg]        |
|---------------------------------------------------------------------------------------------------|----------------------------|-----------------|----------------------|------|---------------|----------------|------------------|-----------------|-----------|------------------|-------------------------|-----------------------|---------------|--------------|------------------------------------------------------|----------------------|---------------------------|----------------------------|----------------------------|--------------------------|--------|--------------|----------------------|------------------|----------------------------------------------------|
| Phablet                                                                                           | 6 GHz WiFi / IEEE 802.11ax | 160             | OFDM                 | H    | 0747M         | 99.67          | -0.09            | 6025.00         | 15        | 68.1             | 9.0                     | 8.75                  | Left          | 0            | 0.353                                                | 1.059                | 1.003                     | 0.375                      | 0.375                      | 0.004                    | ASR    | 17.2         | 17.2                 | 8.0              | 0.377                                              |
| ANSI/IEEE C95.1.2-2012 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |                            |                 |                      |      |               |                |                  |                 |           |                  |                         |                       |               |              | Phablet<br>4.0 W/kg (mW/g)<br>averaged over 10 grams |                      |                           |                            |                            |                          |        |              |                      |                  |                                                    |
| Exposure                                                                                          | Band / Mode                | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle [%] | Power Drift [dB] | Frequency [MHz] | Channel # | Data Rate [Mbps] | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position | Spacing [mm] | Measured APO [W/m² (4cm²)]                           | Power Scaling Factor | Duty Cycle Scaling Factor | Reported APO [W/m² (4cm²)] | Adjusted APO [W/m² (4cm²)] | APD Exposure Ratio       | Plot # | Plimit [dBm] | Overall Plimit [dBm] | EFS Plimit [dBm] | Reported 10g APO for Reference Model [W/m² (4cm²)] |
| Phablet                                                                                           | 6 GHz WiFi / IEEE 802.11ax | 160             | OFDM                 | H    | 0747M         | 99.67          | -0.09            | 6025.00         | 15        | 68.1             | 9.0                     | 8.75                  | Left          | 0            | 8.380                                                | 1.059                | 1.003                     | 8.901                      | 8.901                      | 0.445                    | ASR    | 11.5         | 11.5                 | 8.0              | 8.939                                              |

Table 12-87

6 GHz WIFI Antenna E Phablet Spot-check Verification for Data Referencing

| Exposure                                                                                        | Band / Mode                | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle [%] | Power Drift [dB] | Frequency [MHz] | Channel # | Data Rate [Mbps] | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position | Spacing [mm] | Measured 10g SAR [W/kg]                              | Power Scaling Factor | Duty Cycle Scaling Factor | Reported 10g SAR [W/kg]    | Adjusted 10g SAR [W/kg]    | Exposure Ratio (10g SAR) | Plot # | Plimit [dBm] | Overall Plimit [dBm] | EFS Plimit [dBm] | Reported 10g SAR for Reference model [W/kg]        |
|-------------------------------------------------------------------------------------------------|----------------------------|-----------------|----------------------|------|---------------|----------------|------------------|-----------------|-----------|------------------|-------------------------|-----------------------|---------------|--------------|------------------------------------------------------|----------------------|---------------------------|----------------------------|----------------------------|--------------------------|--------|--------------|----------------------|------------------|----------------------------------------------------|
| Phablet                                                                                         | 6 GHz WiFi / IEEE 802.11ax | 160             | OFDM                 | E    | 0747M         | 99.67          | -0.09            | 6025.00         | 15        | 68.1             | 9.0                     | 8.98                  | Back          | 0            | 0.083                                                | 1.005                | 1.003                     | 0.084                      | 0.084                      | 0.021                    |        | 23.7         | 23.7                 | 8.0              | 0.096                                              |
| ANSI/IEEE C95.1-2012 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |                            |                 |                      |      |               |                |                  |                 |           |                  |                         |                       |               |              | Phablet<br>4.0 W/kg (mW/g)<br>averaged over 10 grams |                      |                           |                            |                            |                          |        |              |                      |                  |                                                    |
| Exposure                                                                                        | Band / Mode                | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle [%] | Power Drift [dB] | Frequency [MHz] | Channel # | Data Rate [Mbps] | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position | Spacing [mm] | Measured APO [W/m² (4cm²)]                           | Power Scaling Factor | Duty Cycle Scaling Factor | Reported APO [W/m² (4cm²)] | Adjusted APO [W/m² (4cm²)] | APD Exposure Ratio       | Plot # | Plimit [dBm] | Overall Plimit [dBm] | EFS Plimit [dBm] | Reported 10g APO for Reference Model [W/m² (4cm²)] |
| Phablet                                                                                         | 6 GHz WiFi / IEEE 802.11ax | 160             | OFDM                 | E    | 0747M         | 99.67          | -0.09            | 6025.00         | 15        | 68.1             | 9.0                     | 8.98                  | Back          | 0            | 1.920                                                | 1.005                | 1.003                     | 1.935                      | 1.935                      | 0.097                    |        | 18.2         | 18.2                 | 8.0              | 2.232                                              |

|                                             |                                |                                   |
|---------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: A3LSMS938B                          | RF EXPOSURE PART 1 TEST REPORT | Approved by:<br>Technical Manager |
| Document S/N:<br>1M2408260069-01.A3L (Rev1) | DUT Type:<br>Portable Handset  | Page 108 of 131                   |

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## 12.22 6 GHz WIFI MIMO Standalone SAR and APD

Table 12-88

### 6 GHz WIFI Antenna MIMO Head Spot-check Verification for Data Referencing

| Exposure                                                                                          | Band / Mode                | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle [%] | Power DfR [dB] | Frequency [MHz] | Channel # | Data Rate [Mbps] | Max Allowed Power [dBm] | Conducted Power [dBm] | Max Allowed Power (2nd ant) [dBm] | Conducted Power (2nd ant) [dBm] | Test Position                                     | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Duty Cycle Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Rate [g SAR] | Plot # | Plm1 [dBm] | Overall Plm1 [dBm] | ETS Plm1 [dBm] | Reported 1g SAR for Reference model [W/kg] |
|---------------------------------------------------------------------------------------------------|----------------------------|-----------------|----------------------|------|---------------|----------------|----------------|-----------------|-----------|------------------|-------------------------|-----------------------|-----------------------------------|---------------------------------|---------------------------------------------------|--------------|------------------------|----------------------|---------------------------|------------------------|------------------------|-----------------------|--------|------------|--------------------|----------------|--------------------------------------------|
| Head                                                                                              | 6 GHz WiFi / IEEE 802.11ax | 40              | OFDM                 | MIMO | 0833M         | 99.67          | -0.03          | 6285.00         | 67        | 32.5             | 17.0                    | 16.80                 | 17.0                              | 16.68                           | Right Cheek                                       | 0            | 0.884                  | 1.076                | 1.003                     | 0.954                  | 0.954                  | 0.506                 |        | 17.2       | 17.2               | 17.0           | 0.806                                      |
| ANSI/IEEE C95.3 D902 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure - General Population |                            |                 |                      |      |               |                |                |                 |           |                  |                         |                       |                                   |                                 | Head<br>1.6 W/kg (mW/g)<br>averaged over 1 g mass |              |                        |                      |                           |                        |                        |                       |        |            |                    |                |                                            |

Note: To achieve the 20 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 17 dBm.

| Exposure | Band / Mode                | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle [%] | Power DfM [dB] | Frequency [MHz] | Channel # | Data Rate [Mbps] | Max Allowed Power [dBm] | Conducted Power [dBm] | Max Allowed Power (2nd ant) [dBm] | Conducted Power (2nd ant) [dBm] | Test Position | Spacing [mm] | Measured APD [W/m <sup>2</sup> /sec/m <sup>2</sup> ] | Power Scaling Factor | Duty Cycle Scaling Factor | Reported APD [W/m <sup>2</sup> /sec/m <sup>2</sup> ] | Adjusted APD [W/m <sup>2</sup> /sec/m <sup>2</sup> ] | APD Exposure Rate | Plot # | Plmch [dBm] | Chmch Plmch [dBm] | ETS Plmch [dBm] | Reported 1g APD for Reference model [W/kg] |
|----------|----------------------------|-----------------|----------------------|------|---------------|----------------|----------------|-----------------|-----------|------------------|-------------------------|-----------------------|-----------------------------------|---------------------------------|---------------|--------------|------------------------------------------------------|----------------------|---------------------------|------------------------------------------------------|------------------------------------------------------|-------------------|--------|-------------|-------------------|-----------------|--------------------------------------------|
| Head     | 6 GHz WiFi / IEEE 802.11ax | 40              | OFDM                 | MIMO | 0833M         | 99.52          | -0.00          | 6285.00         | 67        | 32.5             | 17.0                    | 16.80                 | 17.0                              | 16.68                           | Right Cheek   | 0            | 6.480                                                | 1.076                | 1.003                     | 5.925                                                | 5.925                                                | 0.206             |        | 21.3        | 21.3              | 17.0            | 4.158                                      |

Note: To achieve the 20 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 17 dBm.

Table 12-89

### 6 GHz WIFI Antenna MIMO Body-worn Spot-check Verification for Data Referencing

| Exposure                                                                                        | Band / Mode                | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle [%] | Power DfM [dB] | Frequency [MHz] | Channel # | Data Rate [Mbps] | Max Allowed Power [dBm] | Conducted Power [dBm] | Max Allowed Power (2nd ant) [dBm] | Conducted Power (2nd ant) [dBm] | Test Position                                   | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Duty Cycle Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Rate [g SAR] | Plot # | Plmch [dBm] | Overall Plmch [dBm] | ETS Plmch [dBm] | Reported 1g SAR for Reference model [W/kg] |
|-------------------------------------------------------------------------------------------------|----------------------------|-----------------|----------------------|------|---------------|----------------|----------------|-----------------|-----------|------------------|-------------------------|-----------------------|-----------------------------------|---------------------------------|-------------------------------------------------|--------------|------------------------|----------------------|---------------------------|------------------------|------------------------|-----------------------|--------|-------------|---------------------|-----------------|--------------------------------------------|
| Body-worn                                                                                       | 6 GHz WiFi / IEEE 802.11ax | 160             | OFDM                 | MIMO | 0742M         | 99.67          | -0.08          | 6025.00         | 15        | 136.1            | 9.0                     | 8.80                  | 9.0                               | 8.53                            | Back                                            | 50           | 0.060                  | 1.117                | 1.003                     | 0.067                  | 0.067                  | 0.040                 | 26.7   | 20.7        | 8.0                 | 0.063           |                                            |
| ANSI/IEEE C95.3 D902 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |                            |                 |                      |      |               |                |                |                 |           |                  |                         |                       |                                   |                                 | Body<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |              |                        |                      |                           |                        |                        |                       |        |             |                     |                 |                                            |

Note: To achieve the 12 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 9 dBm.

| Exposure  | Band/ Mode                 | Bandwidth [MHz] | Service/ Modulation | Ant. | Serial Number | Duty Cycle [%] | Power DfM [dB] | Frequency [MHz] | Channel # | Data Rate [Mbps] | Max Allowed Power [dBm] | Conducted Power [dBm] | Max Allowed Power (2nd ant) [dBm] | Conducted Power (2nd ant) [dBm] | Test Position | Spacing [mm] | Measured APD [W/m <sup>2</sup> /sec/m <sup>2</sup> ] | Power Scaling Factor | Duty Cycle Scaling Factor | Reported APD [W/m <sup>2</sup> /sec/m <sup>2</sup> ] | Adjusted APD [W/m <sup>2</sup> /sec/m <sup>2</sup> ] | APD Exposure Rate | Plot # | Plmch [dBm] | Chmch Plmch [dBm] | ETS Plmch [dBm] | Reported 1g APD for Reference model [W/kg] |
|-----------|----------------------------|-----------------|---------------------|------|---------------|----------------|----------------|-----------------|-----------|------------------|-------------------------|-----------------------|-----------------------------------|---------------------------------|---------------|--------------|------------------------------------------------------|----------------------|---------------------------|------------------------------------------------------|------------------------------------------------------|-------------------|--------|-------------|-------------------|-----------------|--------------------------------------------|
| Body-worn | 6 GHz WiFi / IEEE 802.11ax | 160             | OFDM                | MIMO | 0742M         | 99.67          | -0.08          | 6025.00         | 15        | 136.1            | 9.0                     | 8.80                  | 9.0                               | 8.53                            | Back          | 50           | 0.482                                                | 1.117                | 1.003                     | 0.540                                                | 0.540                                                | 0.027             | 45.7   | 23.7        | 23.7              | 8.0             | 0.513                                      |

Note: To achieve the 12 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 9 dBm.

Table 12-90

### 6 GHz WIFI Antenna MIMO Phablet Spot-check Verification for Data Referencing

| Exposure                                                                                          | Band / Mode               | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle [%] | Power DfR [dB] | Frequency [MHz] | Channel # | Data Rate [Mbps] | Max Allowed Power [dBm] | Conducted Power [dBm] | Max Allowed Power (2nd ant) [dBm] | Conducted Power (2nd ant) [dBm] | Test Position                                         | Spacing [mm] | Measured 10g SAR [W/kg] | Power Scaling Factor | Duty Cycle Scaling Factor | Reported 10g SAR [W/kg] | Adjusted 10g SAR [W/kg] | Exposure Rate (10g SAR) | Plot # | Plimit [dBm] | Overall Plimit [dBm] | ETS Plimit [dBm] | Reported 10g SAR for Reference model [W/kg] |
|---------------------------------------------------------------------------------------------------|---------------------------|-----------------|----------------------|------|---------------|----------------|----------------|-----------------|-----------|------------------|-------------------------|-----------------------|-----------------------------------|---------------------------------|-------------------------------------------------------|--------------|-------------------------|----------------------|---------------------------|-------------------------|-------------------------|-------------------------|--------|--------------|----------------------|------------------|---------------------------------------------|
| Phablet                                                                                           | 6 GHz WPA / IEEE 802.11ax | 160             | OFDM                 | MIMO | 0833M         | 99.67          | -0.09          | 6505.00         | 111       | 136.1            | 9.0                     | 8.35                  | 9.0                               | 8.64                            | Left                                                  | 0            | 0.276                   | 1.161                | 1.003                     | 0.321                   | 0.321                   | 0.080                   |        | 17.9         | 17.9                 | 8.0              | 0.146                                       |
| ANSI/IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure - General Population |                           |                 |                      |      |               |                |                |                 |           |                  |                         |                       |                                   |                                 | Phablet<br>4.0 mW/g (mW/g)<br>averaged over 10 g mass |              |                         |                      |                           |                         |                         |                         |        |              |                      |                  |                                             |

Note: To achieve the 12 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 9 dBm.

| Exposure | Band / Mode                | Bandwidth [MHz] | Service / Modulation | Ant. | Serial Number | Duty Cycle [%] | Power DfM [dB] | Frequency [MHz] | Channel # | Data Rate [Mbps] | Max Allowed Power [dBm] | Conducted Power [dBm] | Max Allowed Power (2nd ant) [dBm] | Conducted Power (2nd ant) [dBm] | Test Position | Spacing [mm] | Measured APD [W/m <sup>2</sup> /sec/m <sup>2</sup> ] | Power Scaling Factor | Duty Cycle Scaling Factor | Reported APD [W/m <sup>2</sup> /sec/m <sup>2</sup> ] | Adjusted APD [W/m <sup>2</sup> /sec/m <sup>2</sup> ] | APD Exposure Rate | Plot # | Plmch [dBm] | Chmch Plmch [dBm] | ETS Plmch [dBm] | Reported 10g APD for Reference model [W/kg] |
|----------|----------------------------|-----------------|----------------------|------|---------------|----------------|----------------|-----------------|-----------|------------------|-------------------------|-----------------------|-----------------------------------|---------------------------------|---------------|--------------|------------------------------------------------------|----------------------|---------------------------|------------------------------------------------------|------------------------------------------------------|-------------------|--------|-------------|-------------------|-----------------|---------------------------------------------|
| Phablet  | 6 GHz WiFi / IEEE 802.11ax | 160             | OFDM                 | MIMO | 0833M         | 99.52          | -0.00          | 6505.00         | 111       | 136.1            | 9.0                     | 8.35                  | 9.0                               | 8.64                            | Left          | 0            | 6.510                                                | 1.161                | 1.003                     | 7.581                                                | 7.581                                                | 0.179             |        | 22.2        | 22.2              | 8.0             | 8.158                                       |

Note: To achieve the 12 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 9 dBm.

|                                             |                                |                                   |
|---------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: A3LSMS938B                          | RF EXPOSURE PART 1 TEST REPORT | Approved by:<br>Technical Manager |
| Document S/N:<br>1M2408260069-01.A3L (Rev1) | DUT Type:<br>Portable Handset  | Page 109 of 131                   |

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## 12.23 2.4 GHz Bluetooth SISO Standalone SAR

Table 12-91

### 2.4 GHz Bluetooth Antenna H Head Spot-check Verification for Data Referencing

| Exposure                                                                                        | Band / Mode       | Service / Modulation | Ant. | Serial Number | Duty Cycle [%] | Power Drift [dB] | Frequency [MHz] | Channel # | Data Rate [Mbps] | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position                                   | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Duty Cycle Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio [1g SAR] | Plot # | Plimit [dBm] | Overall Plimit [dBm] | EFS Plimit [dBm] | Reported 1g SAR for Reference model [W/kg] |
|-------------------------------------------------------------------------------------------------|-------------------|----------------------|------|---------------|----------------|------------------|-----------------|-----------|------------------|-------------------------|-----------------------|-------------------------------------------------|--------------|------------------------|----------------------|---------------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|--------------------------------------------|
| Head                                                                                            | 2.4 GHz Bluetooth | FHSS                 | H    | 0742M         | 76.80          | 0.00             | 2441.00         | 39        | 1                | 19.5                    | 18.98                 | Right Cheek                                     | 0            | 0.747                  | 1.294                | 1.016                     | 0.982                  | 1.005                  | 0.628                   | A59    | 18.5         | 18.5                 | 18.5             | 0.919                                      |
| 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 12-92

### 2.4 GHz Bluetooth Antenna J Head Spot-check Verification for Data Referencing

| Exposure                                                                                        | Band / Mode          | Service / Modulation | Ant. | Serial Number | Duty Cycle [%] | Power Drift [dB] | Frequency [MHz] | Channel # | Data Rate [Mbps] | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position                                   | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Duty Cycle Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio [1g SAR] | Plot # | Plimit [dBm] | Overall Plimit [dBm] | EFS Plimit [dBm] | Reported 1g SAR for Reference model [W/kg] |
|-------------------------------------------------------------------------------------------------|----------------------|----------------------|------|---------------|----------------|------------------|-----------------|-----------|------------------|-------------------------|-----------------------|-------------------------------------------------|--------------|------------------------|----------------------|---------------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|--------------------------------------------|
| Head                                                                                            | 2.4 GHz Bluetooth LE | DSSS                 | J    | 0742M         | 85.33          | 0.00             | 2440.00         | 19        | 1                | 20.0                    | 19.61                 | Left Cheek                                      | 0            | 0.516                  | 1.094                | 1.020                     | 0.576                  | 0.725                  | 0.453                   | A61    | 21.7         | 21.7                 | 20.4             | 0.703                                      |
| 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 12-93

### 2.4 GHz Bluetooth Antenna H Body-worn/Hotspot Spot-check Verification for Data Referencing

| Exposure                                                                                        | Band / Mode          | Service / Modulation | Ant. | Serial Number | Duty Cycle [%] | Power Drift [dB] | Frequency [MHz] | Channel # | Data Rate [Mbps] | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position                                   | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Duty Cycle Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio [1g SAR] | Plot # | Plimit [dBm] | Overall Plimit [dBm] | EFS Plimit [dBm] | Reported 1g SAR for Reference model [W/kg] |
|-------------------------------------------------------------------------------------------------|----------------------|----------------------|------|---------------|----------------|------------------|-----------------|-----------|------------------|-------------------------|-----------------------|-------------------------------------------------|--------------|------------------------|----------------------|---------------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|--------------------------------------------|
| Body-worn/Hotspot                                                                               | 2.4 GHz Bluetooth LE | DSSS                 | H    | 0742M         | 85.33          | 0.04             | 2440.00         | 19        | 1                | 20.5                    | 20.15                 | Back                                            | 10           | 0.199                  | 1.083                | 1.020                     | 0.176                  | 0.242                  | 0.151                   | A60    | 27.4         | 22.7                 | 21.3             | 0.210                                      |
| Hotspot                                                                                         | 2.4 GHz Bluetooth LE | DSSS                 | H    | 0742M         | 85.33          | 0.02             | 2440.00         | 19        | 1                | 20.5                    | 20.15                 | Left                                            | 10           | 0.467                  | 1.083                | 1.020                     | 0.516                  | 0.712                  | 0.445                   | A61    | 22.7         | 30.3                 | 25.9             | 0.490                                      |
| 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 12-94

### 2.4 GHz Bluetooth Antenna J Body-worn/Hotspot Spot-check Verification for Data Referencing

| Exposure                                                                                        | Band / Mode          | Service / Modulation | Ant. | Serial Number | Duty Cycle [%] | Power Drift [dB] | Frequency [MHz] | Channel # | Data Rate [Mbps] | Max Allowed Power [dBm] | Conducted Power [dBm] | Test Position                                   | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Duty Cycle Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio [1g SAR] | Plot # | Plimit [dBm] | Overall Plimit [dBm] | EFS Plimit [dBm] | Reported 1g SAR for Reference model [W/kg] |
|-------------------------------------------------------------------------------------------------|----------------------|----------------------|------|---------------|----------------|------------------|-----------------|-----------|------------------|-------------------------|-----------------------|-------------------------------------------------|--------------|------------------------|----------------------|---------------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|--------------------------------------------|
| Body-worn/Hotspot                                                                               | 2.4 GHz Bluetooth LE | DSSS                 | J    | 0742M         | 85.33          | 0.09             | 2440.00         | 19        | 1                | 20.0                    | 19.61                 | Back                                            | 10           | 0.056                  | 1.094                | 1.020                     | 0.062                  | 0.279                  | 0.174                   |        | 33.4         | 30.3                 | 25.9             | 0.052                                      |
| Hotspot                                                                                         | 2.4 GHz Bluetooth LE | DSSS                 | J    | 0742M         | 85.33          | 0.01             | 2440.00         | 19        | 1                | 20.0                    | 19.61                 | Front                                           | 10           | 0.073                  | 1.094                | 1.020                     | 0.080                  | 0.359                  | 0.224                   |        | 30.3         | 30.3                 | 25.9             | 0.087                                      |
| 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 |              |                        |                      |                           |                        |                        |                         |        |              |                      |                  |                                            |

## 12.24 2.4 GHz Bluetooth Dual Standalone SAR

Table 12-95

| Exposure                                 | Band / Mode       | Service / Modulation | Ant. | Serial Number | Duty Cycle [%] | Power Drift [dB] | Frequency [MHz] | Channel # | Data Rate [Mbps] | Max Allowed Power [dBm] | Conducted Power [dBm] | Max Allowed Power (2nd ant) [dBm] | Conducted Power (2nd ant) [dBm] | Test Position | Spacing [mm] | Measured 1g SAR [W/kg] | Power Scaling Factor | Duty Cycle Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio [1g SAR] | Plot # | Plimit [dBm] | Overall Plimit [dBm] | EFS Plimit [dBm] |  |  |
|------------------------------------------|-------------------|----------------------|------|---------------|----------------|------------------|-----------------|-----------|------------------|-------------------------|-----------------------|-----------------------------------|---------------------------------|---------------|--------------|------------------------|----------------------|---------------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|--|--|
| Head                                     | 2.4 GHz Bluetooth | FHSS                 | MIMO | 0742M         | 77.07          | -0.04            | 2441.00         | 39        | 1                | 15.0                    | 13.70                 | 14.0                              | 12.72                           | Right Cheek   | 0            | 0.273                  | 1.349                | 1.025                     | 0.377                  | 0.988                  | 0.616                   |        | 17.2         |                      |                  |  |  |
| Head                                     | 2.4 GHz Bluetooth | FHSS                 | MIMO | 0742M         | 77.07          | -0.01            | 2441.00         | 39        | 1                | 15.0                    | 13.70                 | 14.0                              | 12.72                           | Right T8      | 0            | 0.187                  | 1.349                | 1.025                     | 0.203                  | 0.532                  | 0.333                   |        | 19.5         |                      |                  |  |  |
| Head                                     | 2.4 GHz Bluetooth | FHSS                 | MIMO | 0742M         | 77.07          | -0.01            | 2441.00         | 39        | 1                | 15.0                    | 13.70                 | 14.0                              | 12.72                           | Left Cheek    | 0            | 0.108                  | 1.349                | 1.025                     | 0.149                  | 0.391                  | 0.244                   |        | 21.2         | 17.2                 | 17.2             |  |  |
| Head                                     | 2.4 GHz Bluetooth | FHSS                 | MIMO | 0742M         | 77.07          | 0.10             | 2441.00         | 39        | 1                | 15.0                    | 13.70                 | 14.0                              | 12.72                           | Left T8       | 0            | 0.053                  | 1.349                | 1.025                     | 0.073                  | 0.192                  | 0.120                   |        | 24.3         |                      |                  |  |  |
| ANSI/IEEE C95.1 1992 - SAFETY LIMIT      |                   |                      |      |               |                |                  |                 |           |                  |                         |                       | Head                              |                                 |               |              |                        |                      |                           |                        |                        |                         |        |              |                      |                  |  |  |
| Spatial Peak                             |                   |                      |      |               |                |                  |                 |           |                  |                         |                       | 1.6 W/kg (mW/g)                   |                                 |               |              |                        |                      |                           |                        |                        |                         |        |              |                      |                  |  |  |
| Uncontrolled Exposure/General Population |                   |                      |      |               |                |                  |                 |           |                  |                         |                       | averaged over 1 gram              |                                 |               |              |                        |                      |                           |                        |                        |                         |        |              |                      |                  |  |  |

Note: To achieve the 17.5 dBm maximum allowed MIMO power shown in the documentation, Antenna H transmits at a maximum allowed power of 15.0 dBm, and Antenna J transmits at a maximum allowed power of 14.0 dBm.

Table 12-96

| Exposure                                 | Band / Mode       | Service / Modulation | Ant. | Serial Number | Duty Cycle [%] | Power Drift [dB] | Frequency [MHz] | Channel # | Data Rate [Mbps] | Max Allowed Power [dBm] | Conducted Power [dBm] | Max Allowed Power (2nd ant) [dBm] | Conducted Power (2nd ant) [dBm] | Test Position | Spacing [mm] | Measured 1g SAR [W/kg]               | Power Scaling Factor | Duty Cycle Scaling Factor | Reported 1g SAR [W/kg] | Adjusted 1g SAR [W/kg] | Exposure Ratio [1g SAR] | Plot # | Plimit [dBm] | Overall Plimit [dBm] | EFS Plimit [dBm] |  |
|------------------------------------------|-------------------|----------------------|------|---------------|----------------|------------------|-----------------|-----------|------------------|-------------------------|-----------------------|-----------------------------------|---------------------------------|---------------|--------------|--------------------------------------|----------------------|---------------------------|------------------------|------------------------|-------------------------|--------|--------------|----------------------|------------------|--|
| Body-worn/Hotspot                        | 2.4 GHz Bluetooth | FHSS                 | MIMO | 0742M         | 77.07          | -0.02            | 2441.00         | 39        | 1                | 15.0                    | 13.70                 | 14.0                              | 12.72                           | Back          | 10           | 0.060                                | 1.349                | 1.025                     | 0.083                  | 0.255                  | 0.159                   |        | 23.8         |                      |                  |  |
|                                          | Hotspot           | 2.4 GHz Bluetooth    | FHSS | MIMO          | 0742M          | 77.07            | -0.03           | 2441.00   | 39               | 1                       | 15.0                  | 13.70                             | 14.0                            | 12.72         | Front        | 10                                   | 0.061                | 1.349                     | 1.025                  | 0.084                  | 0.259                   | 0.162  |              | 23.7                 |                  |  |
|                                          | Hotspot           | 2.4 GHz Bluetooth    | FHSS | MIMO          | 0742M          | 77.07            | 0.17            | 2441.00   | 39               | 1                       | 15.0                  | 13.70                             | 14.0                            | 12.72         | Top          | 10                                   | 0.039                | 1.349                     | 1.025                  | 0.054                  | 0.166                   | 0.104  |              | 25.6                 |                  |  |
|                                          | Hotspot           | 2.4 GHz Bluetooth    | FHSS | MIMO          | 0742M          | 77.07            | -0.02           | 2441.00   | 39               | 1                       | 15.0                  | 13.70                             | 14.0                            | 12.72         | Right        | 10                                   | 0.063                | 1.349                     | 1.025                  | 0.064                  | 0.063                   | 0.008  |              | 36.8                 |                  |  |
|                                          | Hotspot           | 2.4 GHz Bluetooth    | FHSS | MIMO          | 0742M          | 77.07            | -0.13           | 2441.00   | 39               | 1                       | 15.0                  | 13.70                             | 14.0                            | 12.72         | Left         | 10                                   | 0.130                | 1.349                     | 1.025                  | 0.180                  | 0.553                   | 0.346  |              | 20.4                 |                  |  |
| ANSI/IEEE C95.1 1992 - SAFETY LIMIT      |                   |                      |      |               |                |                  |                 |           |                  |                         |                       |                                   |                                 |               |              |                                      |                      |                           |                        |                        |                         |        |              |                      |                  |  |
| Spatial Peak                             |                   |                      |      |               |                |                  |                 |           |                  |                         |                       |                                   |                                 |               |              |                                      |                      |                           |                        |                        |                         |        |              |                      |                  |  |
| Uncontrolled Exposure/General Population |                   |                      |      |               |                |                  |                 |           |                  |                         |                       |                                   |                                 |               |              | Body                                 |                      |                           |                        |                        |                         |        |              |                      |                  |  |
|                                          |                   |                      |      |               |                |                  |                 |           |                  |                         |                       |                                   |                                 |               |              | 1.6 W/kg (mW/g) averaged over 1 gram |                      |                           |                        |                        |                         |        |              |                      |                  |  |

Note: To achieve the 17.5 dBm maximum allowed MIMO power shown in the documentation, Antenna H transmits at a maximum allowed power of 15.0 dBm, and Antenna J transmits at a maximum allowed power of 14.0 dBm.

|                                             |                                |                                   |
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## 12.25 UWB Standalone SAR

Table 12-97

| Exposure                                                                                        | Band / Mode | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Drift [dB] | Frequency [MHz] | Channel # | Test Position                                        | Spacing [mm] | Measured 10g SAR [W/kg]                             | Exposure Ratio (10g SAR) | Plot # |
|-------------------------------------------------------------------------------------------------|-------------|----------------------|------|---------------|------------|------------------|-----------------|-----------|------------------------------------------------------|--------------|-----------------------------------------------------|--------------------------|--------|
| Phablet                                                                                         | UWB         | CW                   | 1    | 0710M         | 1:1        | 0.05             | 6489.60         | 5         | Back                                                 | 0            | 0.000                                               | 0.000                    |        |
| Phablet                                                                                         | UWB         | CW                   | 1    | 0710M         | 1:1        | 0.04             | 7987.20         | 9         | Back                                                 | 0            | 0.000                                               | 0.000                    |        |
| Phablet                                                                                         | UWB         | CW                   | 1    | 0710M         | 1:1        | 0.07             | 6489.60         | 5         | Front                                                | 0            | 0.000                                               | 0.000                    |        |
| Phablet                                                                                         | UWB         | CW                   | 1    | 0710M         | 1:1        | 0.07             | 7987.20         | 9         | Front                                                | 0            | 0.000                                               | 0.000                    |        |
| Phablet                                                                                         | UWB         | CW                   | 1    | 0710M         | 1:1        | 0.03             | 6489.60         | 5         | Top                                                  | 0            | 0.001                                               | 0.000                    |        |
| Phablet                                                                                         | UWB         | CW                   | 1    | 0710M         | 1:1        | 0.02             | 7987.20         | 9         | Top                                                  | 0            | 0.001                                               | 0.000                    |        |
| Phablet                                                                                         | UWB         | CW                   | 1    | 0710M         | 1:1        | 0.05             | 6489.60         | 5         | Left                                                 | 0            | 0.002                                               | 0.001                    | A62    |
| Phablet                                                                                         | UWB         | CW                   | 1    | 0710M         | 1:1        | 0.08             | 7987.20         | 9         | Left                                                 | 0            | 0.001                                               | 0.000                    |        |
| 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 |              |                                                     |                          |        |
| Exposure                                                                                        | Band / Mode | Service / Modulation | Ant. | Serial Number | Duty Cycle | Power Drift [dB] | Frequency [MHz] | Channel # | Test Position                                        | Spacing [mm] | Measured APD [W/m <sup>2</sup> (4cm <sup>2</sup> )] | APD Exposure Ratio       | Plot # |
| Phablet                                                                                         | UWB         | CW                   | 1    | 0710M         | 1:1        | 0.05             | 6489.60         | 5         | Back                                                 | 0            | 0.010                                               | 0.001                    |        |
| Phablet                                                                                         | UWB         | CW                   | 1    | 0710M         | 1:1        | 0.04             | 7987.20         | 9         | Back                                                 | 0            | 0.002                                               | 0.000                    |        |
| Phablet                                                                                         | UWB         | CW                   | 1    | 0710M         | 1:1        | 0.07             | 6489.60         | 5         | Front                                                | 0            | 0.003                                               | 0.000                    |        |
| Phablet                                                                                         | UWB         | CW                   | 1    | 0710M         | 1:1        | 0.07             | 7987.20         | 9         | Front                                                | 0            | 0.000                                               | 0.000                    |        |
| Phablet                                                                                         | UWB         | CW                   | 1    | 0710M         | 1:1        | 0.03             | 6489.60         | 5         | Top                                                  | 0            | 0.027                                               | 0.001                    |        |
| Phablet                                                                                         | UWB         | CW                   | 1    | 0710M         | 1:1        | 0.02             | 7987.20         | 9         | Top                                                  | 0            | 0.028                                               | 0.001                    |        |
| Phablet                                                                                         | UWB         | CW                   | 1    | 0710M         | 1:1        | 0.05             | 6489.60         | 5         | Left                                                 | 0            | 0.041                                               | 0.002                    | A62    |
| Phablet                                                                                         | UWB         | CW                   | 1    | 0710M         | 1:1        | 0.08             | 7987.20         | 9         | Left                                                 | 0            | 0.024                                               | 0.001                    |        |

## 12.26 NFC Standalone SAR

Table 12-98

| Exposure                                                                                        | Band / Mode | Signal Type | Ant. | Serial Number | Power Drift [dB] | Frequency [MHz] | Test Position                                        | Spacing [mm] | Measured 10g SAR [W/kg] | Exposure Ratio (10g SAR) | Plot # |
|-------------------------------------------------------------------------------------------------|-------------|-------------|------|---------------|------------------|-----------------|------------------------------------------------------|--------------|-------------------------|--------------------------|--------|
| Phablet                                                                                         | NFC         | B           | NFC  | 0839M         | 0.05             | 13.60           | Back                                                 | 0            | 0.009                   | 0.002                    | A63    |
| Phablet                                                                                         | NFC         | B           | NFC  | 0839M         | 0.03             | 13.60           | Front                                                | 0            | 0.000                   | 0.000                    |        |
| Phablet                                                                                         | NFC         | B           | NFC  | 0839M         | 0.03             | 13.60           | Top                                                  | 0            | 0.000                   | 0.000                    |        |
| Phablet                                                                                         | NFC         | B           | NFC  | 0839M         | 0.08             | 13.60           | Bottom                                               | 0            | 0.000                   | 0.000                    |        |
| Phablet                                                                                         | NFC         | B           | NFC  | 0839M         | 0.08             | 13.60           | Right                                                | 0            | 0.000                   | 0.000                    |        |
| Phablet                                                                                         | NFC         | B           | NFC  | 0839M         | 0.01             | 13.60           | Left                                                 | 0            | 0.000                   | 0.000                    |        |
| 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 |              |                         |                          |        |

|                                             |                                |                                   |
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## SAR Test Notes

### General Notes:

1. The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, and FCC KDB Publication 447498 D01v06.
2. Batteries are fully charged at the beginning of the SAR measurements.
3. Liquid tissue depth was at least 15.0 cm for all frequencies.
4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D01v06.
6. Device was tested using a fixed spacing for body-worn accessory testing. A separation distance of 10 mm was considered because the manufacturer has determined that there will be body-worn accessories available in the marketplace for users to support this separation distance.
7. Per FCC KDB Publication 648474 D01v06r03, body-worn SAR was evaluated without a headset connected to the device. Since the standalone reported body-worn SAR was  $\leq 1.2$  W/kg, no additional body-worn SAR evaluations using a headset cable were required.
8. Per FCC KDB 865664 D01v01r04, variability SAR tests were performed when the measured SAR results for a frequency band were greater than or equal to 0.8 W/kg. Repeated SAR measurements are highlighted in the tables above for clarity. Please see Section 14 for variability analysis.
9. During SAR Testing for the Wireless Router conditions per FCC KDB Publication 941225 D06v02r01, the actual Portable Hotspot operation (with actual simultaneous transmission of a transmitter with WIFI) was not activated (See Section 7.7 for more details).
10. Per FCC KDB Publication 648474 D01v06r03, this device is considered a "phablet" since the display diagonal dimension is  $> 150$  mm and  $< 200$  mm. Therefore, phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR  $> 1.2$  W/kg.
11. This device supports dynamic antenna tuning for some bands. Per FCC Guidance, SAR was measured according to the normally required SAR measurement configurations with tuner active. The auto-tune state determined by the device was verified before and after each SAR measurement and is listed in tables above. Please see Section 15 for supplemental data.
12. Unless otherwise noted, when 10g SAR measurement is considered, a factor of 2.5 is applied to the 1g thresholds for the equivalent test cases.
13. This device uses Qualcomm Smart Transmit for WWAN/WLAN/BT operations to control and manage transmitting power in real time to ensure RF Exposure compliance. Per FCC Guidance, compliance for was assessed at the minimum of the time averaged power and the maximum output power for each band/mode/exposure condition (DSI).
14. Per October 2020 TCB Workshop notes, absorbed power density (APD) using a 4cm<sup>2</sup> averaging area is reported based on SAR measurements.

### GSM Test Notes:

1. Body-Worn accessory testing is typically associated with voice operations. Therefore, GSM voice was evaluated for body-worn SAR.
2. Justification for reduced test configurations per KDB Publication 941225 D01v03r01 and October 2013 TCB Workshop Notes: The source-based frame-averaged output power was evaluated for all GPRS/EDGE slot configurations. The configuration with the highest target frame averaged output power was evaluated for hotspot SAR. When the maximum frame-averaged powers are equivalent across two or more slots (within 0.25 dB), the configuration with the most number of time slots was tested.
3. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) SAR measured at the 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).

### UMTS Notes:

|                                                    |                                       |                                          |
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1. UMTS mode was tested under RMC 12.2 kbps with HSPA Inactive per KDB Publication 941225 D01v03r01. AMR and HSPA SAR was not required per the 3G Test Reduction Procedure in KDB Publication 941225 D01v03r01.
2. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) SAR measured at the 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).

#### LTE Notes:

1. LTE test configurations are determined according to SAR Evaluation Considerations for LTE Devices in FCC KDB Publication 941225 D05v02r04. The general test procedures used for testing can be found in Section 9.5.4.
2. MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.
3. A-MPR was disabled for all SAR tests by setting NS=01 and MCC=001 on the base station simulator. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).
4. Per FCC KDB Publication 447498 D01v06, when the reported 1g SAR measured at the highest output power channel in a given a test configuration was  $> 0.6$  W/kg for LTE B41/48, testing at the other channels was required for such test configurations.
5. TDD LTE was tested per the guidance provided in FCC KDB Publication 941225 D05v02r04. Testing was performed using UL-DL configuration 0 with 6 UL subframes and 2 S subframes using extended cyclic prefix only and special subframe configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Section 4, the duty factor for special subframe configuration 6 using extended cyclic prefix is 0.633.
6. Per KDB Publication 941225 D05Av01r02, SAR for downlink only LTE CA operations was not needed since the maximum average output power in LTE CA mode was not  $>0.25$  dB higher than the maximum output power when downlink carrier aggregation was inactive.

#### NR Notes:

1. NR implementation supports SA and NSA mode. In EN-DC mode, NR operates with the LTE Bands shown in the NR FR1 checklist acting as anchor bands. Per FCC guidance, SAR tests for NR Bands and LTE Anchors Bands were performed separately due to limitations in SAR probe calibration factors.
2. Due to test setup limitations, SAR testing for NR TDD was performed using test mode software to establish the connection.
3. Simultaneous transmission analysis for EN-DC operations is addressed in the Part 2 Test Report (Serial Number can be found in the bibliography).
4. This device additionally supports some EN-DC conditions where additional LTE carriers are added on the downlink only.
5. Per FCC Guidance, NR modulations and RB Sizes/Offsets were selected for testing such that configurations with the highest output power were evaluated for SAR tests.
6. Per FCC KDB Publication 447498 D01v06, when the reported NR Band n77 C-Band SAR measured at the highest output power channel in a given a test configuration was  $> 0.4$  W/kg for 1g evaluations and  $> 1$  W/kg for 10g evaluation, testing at the other channels was required for such test configurations.
7. Per FCC KDB Publication 447498 D01v06, when the reported NR Band n41 SAR measured at the highest output power channel in a given a test configuration was  $> 0.6$  W/kg for 1g evaluations and  $> 1.5$  W/kg for 10g evaluation, testing at the other channels was required for such test configurations.
8. SRS was tested with CW signal per Qualcomm guidance in 80-w2112-4.
9. For final implementation, NR Band n41 and n77 slot configuration is synchronized using maximum duty cycle of 100%. SAR testing was performed using FTM mode with a 100% duty cycle applied to match final duty cycle.

|                                                    |                                       |                                          |
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10. Per FCC Guidance, C-Band for NR n77 (3705 – 3975 MHz) was fully tested according to FCC procedures. For each exposure condition and antenna, the worst-case position was additionally evaluated for the NR n77 DoD (3455.01 – 3544.98 MHz).
11. This device uses two transmit pathways for n41 operations (Path 1 and Path 2). For each exposure condition, the pathway with the highest target power was fully evaluated. The worst case for each antenna and exposure condition was additionally evaluated using the other path.

#### WLAN Notes:

1. For held-to-ear, hotspot, and phablet operations, the initial test position procedures were applied. The test position with the highest extrapolated peak SAR will be used as the initial test position. When reported SAR for the initial test position is  $\leq 0.4$  W/kg for 1g evaluations, no additional testing for the remaining test positions was required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is  $\leq 0.8$  W/kg or all test positions are measured.
2. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 2.4 GHz WIFI single transmission chain operations, the highest measured maximum output power channel for DSSS was selected for SAR measurement. SAR for OFDM modes (2.4 GHz 802.11g/n/ax) was not required due to the maximum allowed powers and the highest reported DSSS SAR. See Section 9.6.5 for more information.
3. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 5 GHz WIFI 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 9.6.6 for more information.
4. Per KDB Publication 248227 D01v02r02, SAR for MIMO was evaluated by following the simultaneous SAR provisions from KDB Publication 447498 D01v06 by either evaluating the sum of the 1g SAR values of each antenna transmitting independently or making a SAR measurement with both antennas transmitting simultaneously. Please see Multi-TX and Antenna SAR Considerations Appendix for complete analysis.
5. When the maximum reported 1g averaged SAR is  $\leq 0.8$  W/kg, SAR testing on additional channels was not required. Otherwise, SAR for the next highest output power channel was required until the reported SAR result was  $\leq 1.20$  W/kg for 1g evaluations or all test channels were measured.
6. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools. The reported SAR was scaled to the 100% transmission duty factor to determine compliance. Procedures used to measure the duty factor are identical to that in the associated EMC test reports.
7. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.
8. Per FCC guidance, SAR was performed using 6.5 GHz SAR probe calibration factor for WIFI 6E. Per October 2020 TCB Workshop notes, 5 channels were tested for WIFI 6E.

#### Bluetooth Notes

1. Bluetooth SAR was measured with the device connected to a call box with hopping disabled with DH5 operation and Tx Tests test mode type. Per October 2016 TCB Workshop Notes, the reported SAR was scaled to the 79% transmission duty factor for Bluetooth and 87% transmission duty factor for Bluetooth LE to determine compliance. See RF Conducted Power Section for the time domain plot and calculation for the duty factor of the device.
2. Head and Hotspot Bluetooth SAR were evaluated for BT BDR tethering applications.
3. The highest frame average power configurations for both Bluetooth and Bluetooth LE were evaluated for SAR. The worst case configuration was used for the remaining test positions as the most conservative scenario.

#### UWB Notes:

1. UWB was evaluated for phablet based on expected usage conditions.
2. Per FCC guidance, SAR was performed using 6.5 GHz/8GHz probe calibration factor for UWB.

|                                                    |                                       |                                          |
|----------------------------------------------------|---------------------------------------|------------------------------------------|
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# 13 POWER DENSITY DATA SUMMARY

## 13.1 6 GHz WIFI Power Density Results

Table 13-1

| MEASUREMENT RESULTS                        |         |          |         |                 |                                     |                               |                                     |                               |                  |              |                                 |                   |                  |       |                |               |                        |                                                   |                        |                             |                                 |                                        |                                |                                       |        |
|--------------------------------------------|---------|----------|---------|-----------------|-------------------------------------|-------------------------------|-------------------------------------|-------------------------------|------------------|--------------|---------------------------------|-------------------|------------------|-------|----------------|---------------|------------------------|---------------------------------------------------|------------------------|-----------------------------|---------------------------------|----------------------------------------|--------------------------------|---------------------------------------|--------|
| Frequency (MHz)                            | Channel | Mode     | Service | Bandwidth (MHz) | Maximum Allowed Power (Ant H) [dBm] | Conducted Power (Ant H) [dBm] | Maximum Allowed Power (Ant E) [dBm] | Conducted Power (Ant E) [dBm] | Power Drift (dB) | Spacing (mm) | Antenna Config.                 | DUT Serial Number | Data Rate (Mbps) | Side  | Duty Cycle (%) | Grid Step (A) | PD (W/m <sup>2</sup> ) | Scaling Factor for Measurement Uncertainty - 10dB | Scaling Factor (Power) | Scaling Factor (Duty Cycle) | Normal psPD (W/m <sup>2</sup> ) | Scaled Normal psPD (W/m <sup>2</sup> ) | Total psPD (W/m <sup>2</sup> ) | Scaled Total psPD (W/m <sup>2</sup> ) | Plot # |
| 6025.00                                    | 15      | 802.11ax | OFDM    | 160             | 9.00                                | 8.75                          | -                                   | -                             | -0.07            | 2            | 1                               | 0821M             | MCS0             | Back  | 99.67          | 0.125         | 1.130                  | 1.554                                             | 1.059                  | 1.003                       | 1.030                           | 1.700                                  | 1.120                          | 1.849                                 |        |
| 6025.00                                    | 15      | 802.11ax | OFDM    | 160             | 9.00                                | 8.75                          | -                                   | -                             | -0.86            | 2            | 1                               | 0821M             | MCS0             | Front | 99.67          | 0.125         | 0.634                  | 1.554                                             | 1.059                  | 1.003                       | 0.287                           | 0.474                                  | 0.411                          | 0.678                                 |        |
| 6025.00                                    | 15      | 802.11ax | OFDM    | 160             | 9.00                                | 8.75                          | -                                   | -                             | -0.11            | 2            | 1                               | 0821M             | MCS0             | Top   | 99.67          | 0.125         | 0.310                  | 1.554                                             | 1.059                  | 1.003                       | 0.281                           | 0.464                                  | 0.456                          | 0.753                                 |        |
| 6025.00                                    | 15      | 802.11ax | OFDM    | 160             | 9.00                                | 8.75                          | -                                   | -                             | -0.04            | 2            | 1                               | 0821M             | MCS0             | Left  | 99.67          | 0.125         | 0.848                  | 1.554                                             | 1.059                  | 1.003                       | 1.700                           | 2.806                                  | 2.240                          | 3.697                                 |        |
| 6345.00                                    | 79      | 802.11ax | OFDM    | 160             | 9.00                                | 8.55                          | -                                   | -                             | -0.09            | 2            | 1                               | 0821M             | MCS0             | Left  | 99.67          | 0.125         | 0.738                  | 1.554                                             | 1.109                  | 1.003                       | 1.110                           | 1.919                                  | 1.380                          | 2.385                                 |        |
| 6505.00                                    | 111     | 802.11ax | OFDM    | 160             | 9.00                                | 8.60                          | -                                   | -                             | 0.04             | 2            | 1                               | 0821M             | MCS0             | Left  | 99.67          | 0.125         | 1.350                  | 1.554                                             | 1.096                  | 1.003                       | 1.940                           | 3.314                                  | 2.220                          | 3.792                                 |        |
| 6665.00                                    | 143     | 802.11ax | OFDM    | 160             | 9.00                                | 8.50                          | -                                   | -                             | 0.08             | 2            | 1                               | 0821M             | MCS0             | Left  | 99.67          | 0.125         | 1.150                  | 1.554                                             | 1.122                  | 1.003                       | 1.660                           | 2.903                                  | 2.090                          | 3.655                                 |        |
| 6985.00                                    | 207     | 802.11ax | OFDM    | 160             | 9.00                                | 8.74                          | -                                   | -                             | -0.26            | 2            | 1                               | 0821M             | MCS0             | Left  | 99.67          | 0.125         | 0.810                  | 1.554                                             | 1.062                  | 1.003                       | 0.623                           | 1.031                                  | 0.803                          | 1.329                                 |        |
| 6025.00                                    | 15      | 802.11ax | OFDM    | 160             | 9.00                                | 8.75                          | -                                   | -                             | 0.40             | 9.95         | 1                               | 0821M             | MCS0             | Left  | 99.67          | 0.125         | 0.862                  | 1.554                                             | 1.059                  | 1.003                       | 0.725                           | 1.197                                  | 0.927                          | 1.530                                 |        |
| 6025.00                                    | 15      | 802.11ax | OFDM    | 160             | 9.00                                | 8.75                          | -                                   | -                             | 0.40             | 9.95         | 1                               | 0821M             | MCS0             | Left  | 99.67          | 0.125         | 0.862                  | 1.554                                             | 1.059                  | 1.003                       | 0.725                           | 1.197                                  | 0.927                          | 1.530                                 |        |
| 6345.00                                    | 79      | 802.11ax | OFDM    | 160             | -                                   | -                             | 9.00                                | 8.99                          | 0.18             | 2            | 2                               | 0821M             | MCS0             | Back  | 99.67          | 0.125         | 1.060                  | 1.554                                             | 1.002                  | 1.003                       | 1.230                           | 1.921                                  | 1.460                          | 2.280                                 |        |
| 6345.00                                    | 79      | 802.11ax | OFDM    | 160             | -                                   | -                             | 9.00                                | 8.99                          | 0.87             | 2            | 2                               | 0821M             | MCS0             | Front | 99.67          | 0.125         | 0.376                  | 1.554                                             | 1.002                  | 1.003                       | 0.287                           | 0.448                                  | 0.329                          | 0.514                                 |        |
| 6345.00                                    | 79      | 802.11ax | OFDM    | 160             | -                                   | -                             | 9.00                                | 8.99                          | 0.14             | 2            | 2                               | 0821M             | MCS0             | Top   | 99.67          | 0.125         | 0.540                  | 1.554                                             | 1.002                  | 1.003                       | 0.346                           | 0.540                                  | 0.486                          | 0.759                                 |        |
| 6345.00                                    | 79      | 802.11ax | OFDM    | 160             | -                                   | -                             | 9.00                                | 8.99                          | 0.23             | 2            | 2                               | 0821M             | MCS0             | Right | 99.67          | 0.125         | 0.893                  | 1.554                                             | 1.002                  | 1.003                       | 0.384                           | 0.600                                  | 0.444                          | 0.693                                 |        |
| 6025.00                                    | 15      | 802.11ax | OFDM    | 160             | -                                   | -                             | 9.00                                | 8.98                          | 0.11             | 2            | 2                               | 0821M             | MCS0             | Back  | 99.67          | 0.125         | 1.070                  | 1.554                                             | 1.005                  | 1.003                       | 1.380                           | 2.162                                  | 1.550                          | 2.428                                 |        |
| 6505.00                                    | 111     | 802.11ax | OFDM    | 160             | -                                   | -                             | 9.00                                | 8.80                          | -0.09            | 2            | 2                               | 0821M             | MCS0             | Back  | 99.67          | 0.125         | 1.280                  | 1.554                                             | 1.047                  | 1.003                       | 1.080                           | 1.762                                  | 1.320                          | 2.154                                 |        |
| 6665.00                                    | 143     | 802.11ax | OFDM    | 160             | -                                   | -                             | 9.00                                | 8.19                          | -0.24            | 2            | 2                               | 0821M             | MCS0             | Back  | 99.67          | 0.125         | 1.280                  | 1.554                                             | 1.205                  | 1.003                       | 0.768                           | 1.442                                  | 0.866                          | 1.627                                 |        |
| 6985.00                                    | 207     | 802.11ax | OFDM    | 160             | -                                   | -                             | 9.00                                | 8.70                          | -0.15            | 2            | 2                               | 0821M             | MCS0             | Back  | 99.67          | 0.125         | 1.110                  | 1.554                                             | 1.072                  | 1.003                       | 0.656                           | 1.096                                  | 0.755                          | 1.262                                 |        |
| 6345.00                                    | 79      | 802.11ax | OFDM    | 160             | -                                   | -                             | 9.00                                | 8.99                          | -1.73            | 9.45         | 2                               | 0821M             | MCS0             | Back  | 99.67          | 0.125         | 0.477                  | 1.554                                             | 1.002                  | 1.003                       | 0.223                           | 0.348                                  | 0.232                          | 0.362                                 |        |
| 6345.00                                    | 79      | 802.11ax | OFDM    | 160             | 9.00                                | 8.57                          | 9.00                                | 8.94                          | 3.13             | 2            | MIMO                            | 0830M             | MCS0             | Back  | 99.67          | 0.125         | -                      | 1.554                                             | 1.104                  | 1.003                       | 2.770                           | 4.767                                  | 2.900                          | 4.990                                 |        |
| 6345.00                                    | 79      | 802.11ax | OFDM    | 160             | 9.00                                | 8.57                          | 9.00                                | 8.94                          | 0.16             | 2            | MIMO                            | 0830M             | MCS0             | Front | 99.67          | 0.125         | -                      | 1.554                                             | 1.104                  | 1.003                       | 0.401                           | 0.690                                  | 0.441                          | 0.759                                 |        |
| 6345.00                                    | 79      | 802.11ax | OFDM    | 160             | 9.00                                | 8.57                          | 9.00                                | 8.94                          | 0.55             | 2            | MIMO                            | 0830M             | MCS0             | Top   | 99.67          | 0.125         | -                      | 1.554                                             | 1.104                  | 1.003                       | 1.650                           | 2.839                                  | 1.770                          | 3.046                                 |        |
| 6345.00                                    | 79      | 802.11ax | OFDM    | 160             | 9.00                                | 8.57                          | 9.00                                | 8.94                          | 2.40             | 2            | MIMO                            | 0830M             | MCS0             | Right | 99.67          | 0.125         | -                      | 1.554                                             | 1.104                  | 1.003                       | 2.380                           | 4.095                                  | 2.550                          | 4.388                                 |        |
| 6345.00                                    | 79      | 802.11ax | OFDM    | 160             | 9.00                                | 8.57                          | 9.00                                | 8.94                          | 0.14             | 2            | MIMO                            | 0830M             | MCS0             | Left  | 99.67          | 0.125         | -                      | 1.554                                             | 1.104                  | 1.003                       | 2.830                           | 4.870                                  | 3.240                          | 5.575                                 | A64    |
| 6025.00                                    | 15      | 802.11ax | OFDM    | 160             | 9.00                                | 8.80                          | 9.00                                | 8.52                          | -0.06            | 2            | MIMO                            | 0830M             | MCS0             | Left  | 99.67          | 0.125         | -                      | 1.554                                             | 1.117                  | 1.003                       | 2.220                           | 3.865                                  | 2.810                          | 4.892                                 |        |
| 6505.00                                    | 111     | 802.11ax | OFDM    | 160             | 9.00                                | 8.35                          | 9.00                                | 8.84                          | -0.04            | 2            | MIMO                            | 0830M             | MCS0             | Left  | 99.67          | 0.125         | -                      | 1.554                                             | 1.161                  | 1.003                       | 2.140                           | 3.873                                  | 3.150                          | 5.700                                 |        |
| 6665.00                                    | 143     | 802.11ax | OFDM    | 160             | 9.00                                | 8.00                          | 9.00                                | 8.56                          | -0.06            | 2            | MIMO                            | 0830M             | MCS0             | Left  | 99.67          | 0.125         | -                      | 1.554                                             | 1.259                  | 1.003                       | 0.948                           | 1.860                                  | 1.270                          | 2.492                                 |        |
| 6985.00                                    | 207     | 802.11ax | OFDM    | 160             | 9.00                                | 8.14                          | 9.00                                | 8.90                          | -0.04            | 2            | MIMO                            | 0830M             | MCS0             | Left  | 99.67          | 0.125         | -                      | 1.554                                             | 1.219                  | 1.003                       | 0.471                           | 0.895                                  | 0.716                          | 1.360                                 |        |
| 47 CFR 81.1310 - SAFETY LIMIT              |         |          |         |                 |                                     |                               |                                     |                               |                  |              | Power Density                   |                   |                  |       |                |               |                        |                                                   |                        |                             |                                 |                                        |                                |                                       |        |
| Spatial Average                            |         |          |         |                 |                                     |                               |                                     |                               |                  |              | 10 W/m <sup>2</sup>             |                   |                  |       |                |               |                        |                                                   |                        |                             |                                 |                                        |                                |                                       |        |
| Uncontrolled Exposure / General Population |         |          |         |                 |                                     |                               |                                     |                               |                  |              | averaged over 4 cm <sup>2</sup> |                   |                  |       |                |               |                        |                                                   |                        |                             |                                 |                                        |                                |                                       |        |

|                                             |                                |                                   |
|---------------------------------------------|--------------------------------|-----------------------------------|
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## 13.2 UWB Power Density Results

Table 13-2

| MEASUREMENT RESULTS                                                                            |         |      |                  |              |                 |                                                 |       |               |            |                                                          |                    |                           |                   |                          |        |
|------------------------------------------------------------------------------------------------|---------|------|------------------|--------------|-----------------|-------------------------------------------------|-------|---------------|------------|----------------------------------------------------------|--------------------|---------------------------|-------------------|--------------------------|--------|
| Frequency (MHz)                                                                                | Channel | Mode | Power Drift (dB) | Spacing (mm) | Antenna Config. | DUT Serial Number                               | Side  | Grid Step (λ) | iPD (W/m²) | Scaling Factor for Measurement Uncertainty per IEC 62479 | Normal psPD (W/m²) | Scaled Normal psPD (W/m²) | Total psPD (W/m²) | Scaled Total psPD (W/m²) | Plot # |
| 6489.60                                                                                        | 5       | CW   | 0.12             | 2            | 1               | 0710M                                           | Back  | 0.125         | -          | 1.554                                                    | 0.266              | 0.413                     | 0.275             | 0.427                    |        |
| 6489.60                                                                                        | 5       | CW   | -0.16            | 2            | 1               | 0710M                                           | Front | 0.125         | -          | 1.554                                                    | 0.301              | 0.468                     | 0.309             | 0.480                    |        |
| 6489.60                                                                                        | 5       | CW   | -0.11            | 2            | 1               | 0710M                                           | Top   | 0.125         | 0.860      | 1.554                                                    | 0.232              | 0.361                     | 0.241             | 0.375                    |        |
| 6489.60                                                                                        | 5       | CW   | 0.12             | 2            | 9.24            | 0710M                                           | Top   | 0.125         | 0.452      | 1.554                                                    | 0.127              | 0.197                     | 0.131             | 0.204                    |        |
| 6489.60                                                                                        | 5       | CW   | 0.17             | 2            | 1               | 0710M                                           | Left  | 0.125         | -          | 1.554                                                    | 0.533              | 0.828                     | 0.573             | 0.890                    | A65    |
| 7987.20                                                                                        | 9       | CW   | -0.11            | 2            | 1               | 0710M                                           | Back  | 0.125         | -          | 1.554                                                    | 0.139              | 0.216                     | 0.143             | 0.222                    |        |
| 7987.20                                                                                        | 9       | CW   | 0.18             | 2            | 1               | 0710M                                           | Front | 0.125         | -          | 1.554                                                    | 0.486              | 0.755                     | 0.500             | 0.777                    |        |
| 7987.20                                                                                        | 9       | CW   | 0.15             | 2            | 1               | 0710M                                           | Top   | 0.125         | -          | 1.554                                                    | 0.081              | 0.126                     | 0.083             | 0.129                    |        |
| 7987.20                                                                                        | 9       | CW   | 0.13             | 2            | 1               | 0710M                                           | Left  | 0.125         | -          | 1.554                                                    | 0.221              | 0.343                     | 0.230             | 0.357                    |        |
| 47 CFR §1.1310 - SAFETY LIMIT<br>Spatial Average<br>Uncontrolled Exposure / General Population |         |      |                  |              |                 | Power Density<br>10 W/m²<br>averaged over 4 cm² |       |               |            |                                                          |                    |                           |                   |                          |        |

### Power Density General Notes

1. The manufacturer has confirmed that the devices tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
2. Batteries are fully charged at the beginning of the measurements. The DUT was connected to a wall charger for some measurements due to the test duration. It was confirmed that the charger plugged into this DUT did not impact the near-field PD test results.
3. Power density was calculated by repeated E-field measurements on two measurement planes separated by  $\lambda/4$ .
4. 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.
5. Per FCC guidance and equipment manufacturer guidance, power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty > 30%. Total expanded uncertainty of 2.68 dB (85.4%) was used to determine the psPD measurement scaling factor.
6. Per equipment manufacturer guidance, power density was measured at  $d=2\text{mm}$  and  $d=\lambda/5\text{mm}$  using the same grid size and grid step size for some frequencies and surfaces. The integrated Power Density (iPD) was calculated based on these measurements. Since iPD ratio between the two distances is  $\geq -1\text{dB}$ , the grid step was sufficient for determining compliance at  $d=2\text{mm}$ .
7. psPD for MIMO was evaluated by making a measurement with both antennas transmitting simultaneously.
8. PTP-PR algorithm was used during psPD measurement and calculations.
9. PD results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04.

|                                             |                                |                                   |
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## 14 SAR MEASUREMENT VARIABILITY

### 14.1 Measurement Variability

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

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

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

**Table 14-1**  
**Head SAR Measurement Variability Results**

| HEAD VARIABILITY RESULTS                 |           |        |                                |                                       |       |                      |                |                   |                       |       |                       |       |                       |
|------------------------------------------|-----------|--------|--------------------------------|---------------------------------------|-------|----------------------|----------------|-------------------|-----------------------|-------|-----------------------|-------|-----------------------|
| Band                                     | FREQUENCY |        | Mode                           | Service                               | Side  | Test Position        | Antenna Config | Measured SAR (1g) | 1st Repeated SAR (1g) | Ratio | 2nd Repeated SAR (1g) | Ratio | 3rd Repeated SAR (1g) |
|                                          | MHz       | Ch.    |                                |                                       |       |                      |                | (W/kg)            | (W/kg)                |       | (W/kg)                |       | (W/kg)                |
| 750                                      | 782.00    | 23230  | LTE Band 13, 10 MHz Bandwidth  | QPSK, 1 RB, 25 RB Offset              | Left  | Cheek                | E              | 0.940             | 0.820                 | 1.15  | N/A                   | N/A   | N/A                   |
| 835                                      | 836.50    | 167300 | NR Band n5, 20 MHz Bandwidth   | DFT-s-OFDM, QPSK, 100 RB, 0 RB Offset | Left  | Cheek                | E              | 0.936             | 0.847                 | 1.11  | N/A                   | N/A   | N/A                   |
| 1900                                     | 1905.00   | 26590  | LTE Band 25, 20 MHz Bandwidth  | QPSK, 50 RB, 50 RB Offset             | Right | Tilt                 | F              | 0.900             | 0.835                 | 1.08  | N/A                   | N/A   | N/A                   |
| 2600                                     | 2592.99   | 518598 | NR Band n41, 100 MHz Bandwidth | DFT-s-OFDM, QPSK, 270 RB, 0 RB Offset | Right | Tilt                 | F              | 1.150             | 1.130                 | 1.02  | N/A                   | N/A   | N/A                   |
| 6500                                     | 6285.00   | 67     | 6 GHz Wi-Fi IEEE 802.11ax      | OFDM                                  | Right | Cheek                | H              | 0.981             | 0.882                 | 1.11  | N/A                   | N/A   | N/A                   |
| 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 14-2**  
**Body SAR Measurement Variability Results**

| BODY VARIABILITY RESULTS                 |           |       |                               |                          |        |                      |                |                   |                       |       |                       |       |                       |
|------------------------------------------|-----------|-------|-------------------------------|--------------------------|--------|----------------------|----------------|-------------------|-----------------------|-------|-----------------------|-------|-----------------------|
| Band                                     | FREQUENCY |       | Mode                          | Service                  | Side   | Spacing              | Antenna Config | Measured SAR (1g) | 1st Repeated SAR (1g) | Ratio | 2nd Repeated SAR (1g) | Ratio | 3rd Repeated SAR (1g) |
|                                          | MHz       | Ch.   |                               |                          |        |                      |                | (W/kg)            | (W/kg)                |       | (W/kg)                |       | (W/kg)                |
| 1750                                     | 1752.60   | 1513  | UMTS 1750                     | RMC                      | Bottom | 10 mm                | A              | 0.917             | 0.908                 | 1.01  | N/A                   | N/A   | N/A                   |
| 1900                                     | 1905.00   | 26590 | LTE Band 25, 20 MHz Bandwidth | QPSK, 1 RB, 50 RB Offset | Bottom | 10 mm                | A              | 1.020             | 0.968                 | 1.05  | 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 |                |                   |                       |       |                       |       |                       |

### 14.2 Measurement Uncertainty

The measured SAR was  $< 1.5$  W/kg for 1g and  $< 3.75$  W/kg for 10g for all frequency bands. Therefore, per KDB Publication 865664 D01v01r04, the extended measurement uncertainty analysis per IEEE 1528-2013 was not required.

|                                             |                                |                                   |
|---------------------------------------------|--------------------------------|-----------------------------------|
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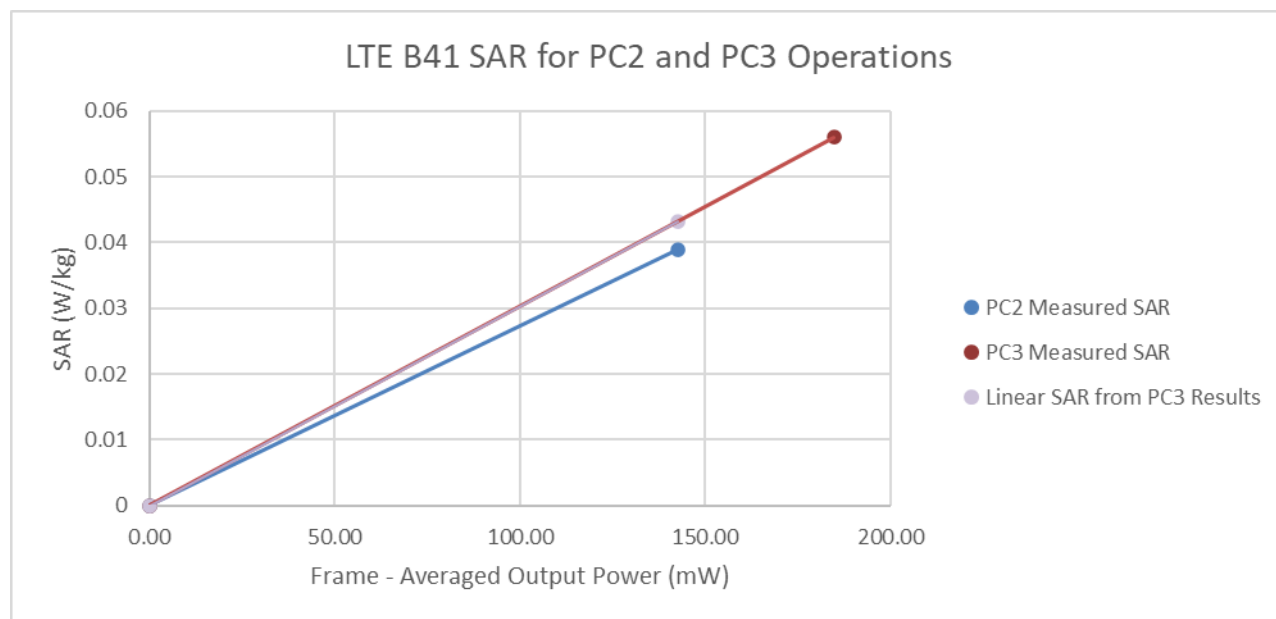
## 15 ADDITIONAL TESTING PER FCC GUIDANCE

### 15.1 LTE Band 41 Power Class 2 and Power Class 3 Linearity

This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operations is 43.3 % using UL-DL configuration 1. Per May 2017 TCB Workshop Notes based on the device behavior, all SAR tests were performed using Power Class 3. SAR with Power Class 2 at the highest power and available duty factor was additionally performed for the Power Class 3 configuration with the highest SAR for each exposure condition. The linearity between the Power Class 2 and Power Class 3 SAR results and the respective frame averaged powers was calculated to determine that the results were linear. Per May 2017 TCB Workshop, no additional SAR measurements were required since the linearity between power classes was < 10% and all reported SAR values were < 1.4 W/kg for 1g and < 3.5 W/kg for 10g.

**Table 15-1**  
**LTE Band 41 Antenna B Head Linearity Data**

|                                     | LTE Band 41 PC3 | LTE Band 41 PC2 |
|-------------------------------------|-----------------|-----------------|
| Maximum Allowed Output Power (dBm)  | 25.00           | 26.00           |
| Measured Output Power (dBm)         | 24.65           | 25.18           |
| Measured SAR (W/kg)                 | 0.056           | 0.039           |
| Measured Power (mW)                 | 291.74          | 329.61          |
| Duty Cycle                          | 63.3%           | 43.3%           |
| Frame Averaged Output Power (mW)    | 184.67          | 142.72          |
| % deviation from expected linearity |                 | -9.89%          |



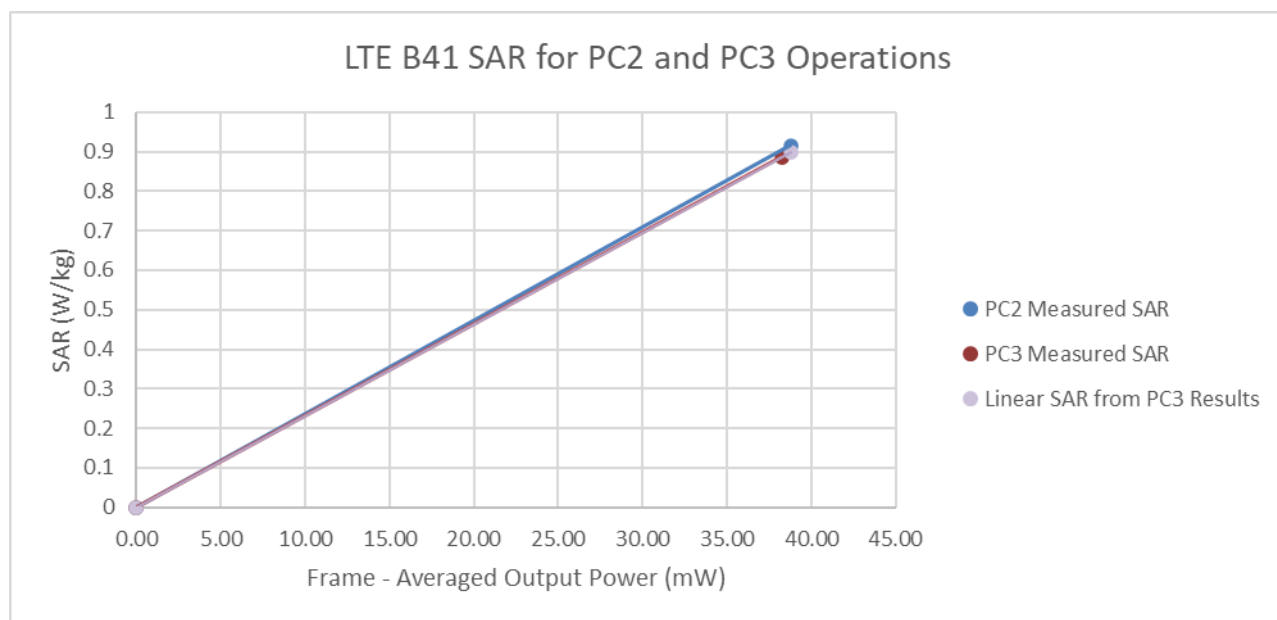
**Figure 15-1**  
**LTE Band 41 Antenna B Head Linearity**

|                                                    |                                       |                                          |
|----------------------------------------------------|---------------------------------------|------------------------------------------|
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**Table 15-2**  
**LTE Band 41 Antenna F Head Linearity Data**

|                                     | LTE Band 41 PC3 | LTE Band 41 PC2 |
|-------------------------------------|-----------------|-----------------|
| Maximum Allowed Output Power (dBm)  | 18.50           | 20.10           |
| Measured Output Power (dBm)         | 17.81           | 19.52           |
| Measured SAR (W/kg)                 | 0.887           | 0.916           |
| Measured Power (mW)                 | 60.39           | 89.54           |
| Duty Cycle                          | 63.3%           | 43.3%           |
| Frame Averaged Output Power (mW)    | 38.23           | 38.77           |
| % deviation from expected linearity |                 | 1.83%           |



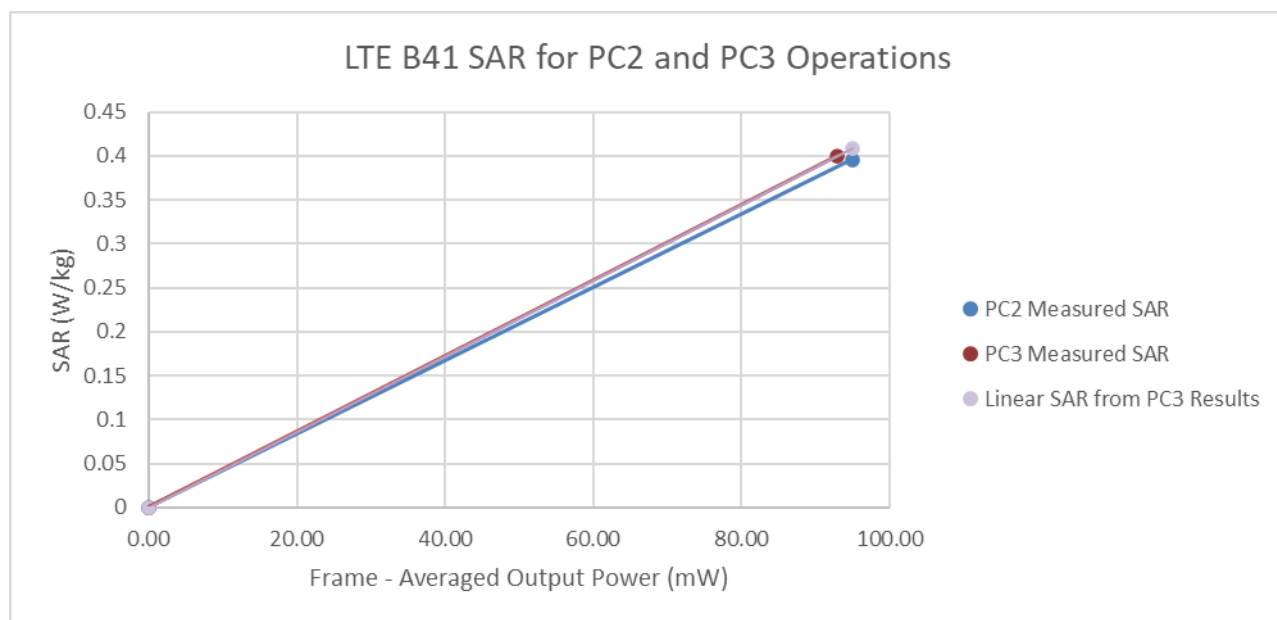
**Figure 15-2**  
**LTE Band 41 Antenna F Head Linearity**

|                                                    |                                       |                                          |
|----------------------------------------------------|---------------------------------------|------------------------------------------|
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**Table 15-3**  
**LTE Band 41 Antenna B Body-Worn/Hotspot Linearity Data**

|                                     | LTE Band 41 PC3 | LTE Band 41 PC2 |
|-------------------------------------|-----------------|-----------------|
| Maximum Allowed Output Power (dBm)  | 22.00           | 23.60           |
| Measured Output Power (dBm)         | 21.67           | 23.41           |
| Measured SAR (W/kg)                 | 0.400           | 0.396           |
| Measured Power (mW)                 | 146.89          | 219.28          |
| Duty Cycle                          | 63.3%           | 43.3%           |
| Frame Averaged Output Power (mW)    | 92.98           | 94.95           |
| % deviation from expected linearity |                 | -3.05%          |



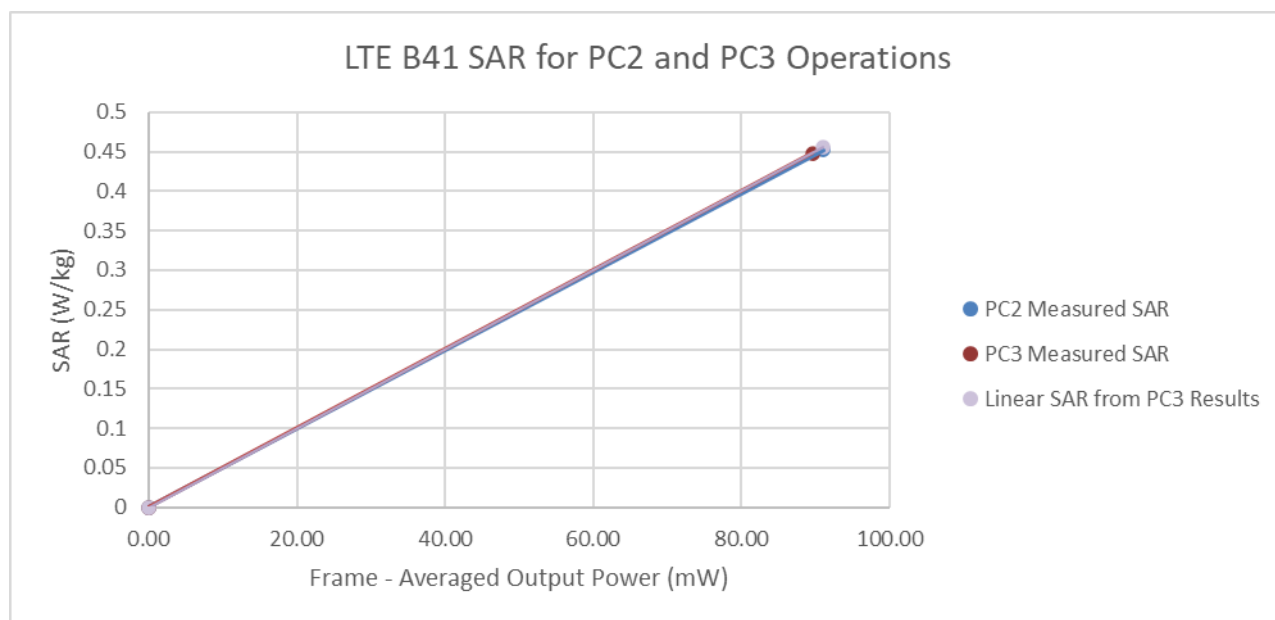
**Figure 15-3**  
**LTE Band 41 Antenna B Body-Worn/hotspot Linearity**

|                                                    |                                       |                                          |
|----------------------------------------------------|---------------------------------------|------------------------------------------|
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**Table 15-4**  
**LTE Band 41 Antenna F Body-worn/Hotspot Linearity Data**

|                                     | LTE Band 41 PC3 | LTE Band 41 PC2 |
|-------------------------------------|-----------------|-----------------|
| Maximum Allowed Output Power (dBm)  | 22.00           | 23.60           |
| Measured Output Power (dBm)         | 21.51           | 23.23           |
| Measured SAR (W/kg)                 | 0.448           | 0.452           |
| Measured Power (mW)                 | 141.58          | 210.38          |
| Duty Cycle                          | 63.3%           | 43.3%           |
| Frame Averaged Output Power (mW)    | 89.62           | 91.09           |
| % deviation from expected linearity |                 | -0.74%          |



**Figure 15-4**  
**LTE Band 41 Antenna F Body-worn/Hotspot Linearity**

|                                                    |                                       |                                          |
|----------------------------------------------------|---------------------------------------|------------------------------------------|
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## 15.2 Tuner Testing

Per April 2019 TCB Workshop Notes, the following test procedures were followed to demonstrate that the SAR results in Section 11 represented the appropriate SAR test conditions. For bands with dynamic tuning implemented, SAR was measured according to the required FCC SAR test procedures with the dynamic tuner active to allow the device to automatically tune to the antenna state for the respective RF exposure test configurations. 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 144 tuner states were divided among the aggregate band, mode and exposure combinations. Single point time-sweep measurements were performed at the peak SAR location determined by the zoom scan of the configuration with the highest measured 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  $> 1.2 \text{ W/kg}$  for a particular band/mode/exposure condition, point SAR measurements were made for all 144 states.

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

|                                                    |                                       |                                          |
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**Table 15-5**  
**UMTS Supplemental Head SAR Data**

| Supplemental Head SAR Data         |            |                                    |             |                                    |             |
|------------------------------------|------------|------------------------------------|-------------|------------------------------------|-------------|
| UMTS B5                            |            | UMTS B4                            |             | UMTS B2                            |             |
| RMC                                |            | RMC                                |             | RMC                                |             |
| Test Position                      | Left Cheek | Test Position                      | Right Cheek | Test Position                      | Right Cheek |
| Frequency (MHz)                    | 846.60     | Frequency (MHz)                    | 1752.60     | Frequency (MHz)                    | 1852.40     |
| Channel                            | 4233       | Channel                            | 1513        | Channel                            | 9262        |
| Measured 1g SAR (W/kg)             | 0.092      | Measured 1g SAR (W/kg)             | 0.102       | Measured 1g SAR (W/kg)             | 0.085       |
| Average Value of Time Sweep (W/kg) |            | Average Value of Time Sweep (W/kg) |             | Average Value of Time Sweep (W/kg) |             |
| Auto-tune (State 10)               | 0.095      | Auto-tune (State 99)               | 0.113       | Auto-tune (State 108)              | 0.096       |
| Default (State 0)                  | 0.065      | Default (State 0)                  | 0.081       | Default (State 0)                  | 0.061       |
| State 0                            | 0.065      | State 1                            | 0.075       | State 2                            | 0.054       |
| State 10                           | 0.086      | State 46                           | 0.099       | State 45                           | 0.092       |
| State 47                           | 0.080      | State 94                           | 0.021       | State 93                           | 0.012       |
| State 95                           | 0.037      | State 97                           | 0.015       | State 98                           | 0.005       |
| State 96                           | 0.031      | State 99                           | 0.109       | State 108                          | 0.092       |
| State 117                          | 0.064      | State 118                          | 0.096       | State 119                          | 0.016       |
| State 141                          | 0.055      | State 142                          | 0.088       | State 141                          | 0.094       |

**Table 15-6**  
**LTE Supplemental Head SAR Data**

| Supplemental Head SAR Data                 |            |                                           |            |                                            |            |                                           |             |                                            |             |
|--------------------------------------------|------------|-------------------------------------------|------------|--------------------------------------------|------------|-------------------------------------------|-------------|--------------------------------------------|-------------|
| LTE B12                                    |            | LTE B13                                   |            | LTE B26                                    |            | LTE B66                                   |             | LTE B25                                    |             |
| QPSK, 10 MHz Bandwidth, 1 RB, 25 RB Offset |            | QPSK, 10 MHz Bandwidth, 1 RB, 25RB Offset |            | QPSK, 15 MHz Bandwidth, 1 RB, 36 RB Offset |            | QPSK, 20 MHz Bandwidth, 1 RB, 0 RB Offset |             | QPSK, 20 MHz Bandwidth, 1 RB, 50 RB Offset |             |
| Test Position                              | Left Cheek | Test Position                             | Left Cheek | Test Position                              | Left Cheek | Test Position                             | Right Cheek | Test Position                              | Right Cheek |
| Frequency (MHz)                            | 707.50     | Frequency (MHz)                           | 782.00     | Frequency (MHz)                            | 831.50     | Frequency (MHz)                           | 1770.00     | Frequency (MHz)                            | 1882.50     |
| Channel                                    | 23095      | Channel                                   | 23230      | Channel                                    | 26865      | Channel                                   | 132572      | Channel                                    | 26365       |
| Measured 1g SAR (W/kg)                     | 0.126      | Measured 1g SAR (W/kg)                    | 0.142      | Measured 1g SAR (W/kg)                     | 0.104      | Measured 1g SAR (W/kg)                    | 0.094       | Measured 1g SAR (W/kg)                     | 0.121       |
| 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 63)                       | 0.137      | Auto-tune (State 0)                       | 0.132      | Auto-tune (State 10)                       | 0.118      | Auto-tune (State 99)                      | 0.101       | Auto-tune (State 108)                      | 0.121       |
| Default (State 0)                          | 0.100      | Default (State 0)                         | 0.150      | Default (State 0)                          | 0.080      | Default (State 0)                         | 0.088       | Default (State 0)                          | 0.071       |
| State 4                                    | 0.061      | State 0                                   | 0.150      | State 7                                    | 0.030      | State 11                                  | 0.094       | State 13                                   | 0.094       |
| State 43                                   | 0.037      | State 5                                   | 0.126      | State 10                                   | 0.109      | State 36                                  | 0.009       | State 34                                   | 0.073       |
| State 63                                   | 0.119      | State 42                                  | 0.045      | State 40                                   | 0.024      | State 84                                  | 0.092       | State 82                                   | 0.109       |
| State 91                                   | 0.083      | State 90                                  | 0.079      | State 88                                   | 0.026      | State 99                                  | 0.107       | State 104                                  | 0.109       |
| State 99                                   | 0.096      | State 100                                 | 0.078      | State 101                                  | 0.059      | State 103                                 | 0.114       | State 108                                  | 0.116       |
| State 120                                  | 0.117      | State 121                                 | 0.138      | State 122                                  | 0.059      | State 124                                 | 0.107       | State 125                                  | 0.008       |
| State 140                                  | 0.089      | State 139                                 | 0.050      | State 138                                  | 0.078      | State 136                                 | 0.020       | State 135                                  | 0.125       |

**Table 15-7**  
**NR Supplemental Head SAR Data**

| Supplemental Head SAR Data                             |             |                                                       |             |                                                        |             |
|--------------------------------------------------------|-------------|-------------------------------------------------------|-------------|--------------------------------------------------------|-------------|
| NR Band n5                                             |             | NR Band n66                                           |             | NR Band n25                                            |             |
| DFT-s-OFDM QPSK, 20 MHz Bandwidth, 50 RB, 28 RB Offset |             | DFTs-OFDM QPSK, 45 MHz Bandwidth, 1 RB, 240 RB Offset |             | DFTs-OFDM QPSK, 40 MHz Bandwidth, 108 RB, 54 RB Offset |             |
| Test Position                                          | Right Cheek | Test Position                                         | Right Cheek | Test Position                                          | Right Cheek |
| Frequency (MHz)                                        | 836.50      | Frequency (MHz)                                       | 1745.00     | Frequency (MHz)                                        | 1882.50     |
| Channel                                                | 167300      | Channel                                               | 349000      | Channel                                                | 376500      |
| Measured 1g SAR (W/kg)                                 | 0.086       | Measured 1g SAR (W/kg)                                | 0.085       | Measured 1g SAR (W/kg)                                 | 0.102       |
| 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)                                    | 0.083       | Auto-tune (State 99)                                  | 0.082       | Auto-tune (State 108)                                  | 0.111       |
| Default (State 0)                                      | 0.084       | Default (State 0)                                     | 0.049       | Default (State 0)                                      | 0.063       |
| State 0                                                | 0.084       | State 21                                              | 0.007       | State 22                                               | 0.005       |
| State 19                                               | 0.069       | State 26                                              | 0.001       | State 25                                               | 0.002       |
| State 28                                               | 0.070       | State 74                                              | 0.005       | State 73                                               | 0.005       |
| State 76                                               | 0.044       | State 99                                              | 0.078       | State 107                                              | 0.072       |
| State 105                                              | 0.032       | State 106                                             | 0.059       | State 108                                              | 0.106       |
| State 126                                              | 0.036       | State 127                                             | 0.015       | State 128                                              | 0.096       |
| State 134                                              | 0.072       | State 133                                             | 0.068       | State 132                                              | 0.012       |

|                                                    |                                       |                                          |
|----------------------------------------------------|---------------------------------------|------------------------------------------|
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**Table 15-8**  
**UMTS Supplemental Body SAR Data**

| Supplemental Body SAR Data         |        |                                    |         |                                    |         |
|------------------------------------|--------|------------------------------------|---------|------------------------------------|---------|
| UMTS B5                            |        | UMTS B4                            |         | UMTS B2                            |         |
| RMC                                |        | RMC                                |         | RMC                                |         |
| Test Position                      | Back   | Test Position                      | Bottom  | Test Position                      | Bottom  |
| Spacing                            | 10 mm  | Spacing                            | 10 mm   | Spacing                            | 10 mm   |
| Frequency (MHz)                    | 846.60 | Frequency (MHz)                    | 1752.60 | Frequency (MHz)                    | 1907.60 |
| Channel                            | 4233   | Channel                            | 1513    | Channel                            | 9538    |
| Measured 1g SAR (W/kg)             | 0.327  | Measured 1g SAR (W/kg)             | 0.917   | Measured 1g SAR (W/kg)             | 0.987   |
| Average Value of Time Sweep (W/kg) |        | Average Value of Time Sweep (W/kg) |         | Average Value of Time Sweep (W/kg) |         |
| Auto-tune (State 12)               | 0.362  | Auto-tune (State 27)               | 1.020   | Auto-tune (State 99)               | 1.100   |
| Default (State 0)                  | 0.315  | Default (State 0)                  | 0.898   | Default (State 0)                  | 0.788   |
| State 12                           | 0.378  | State 22                           | 0.160   | State 21                           | 0.124   |
| State 23                           | 0.213  | State 25                           | 0.119   | State 26                           | 0.071   |
| State 24                           | 0.185  | State 27                           | 1.060   | State 69                           | 0.773   |
| State 72                           | 0.316  | State 70                           | 0.712   | State 99                           | 1.100   |
| State 108                          | 0.199  | State 109                          | 0.876   | State 110                          | 1.020   |
| State 129                          | 0.198  | State 130                          | 0.732   | State 129                          | 0.991   |
| State 131                          | 0.249  | State 132                          | 0.225   | State 133                          | 1.030   |

**Table 15-9**  
**LTE Supplemental Body SAR Data**

| Supplemental Body SAR Data                 |        |                                            |        |                                            |        |                                            |         |                                            |         |
|--------------------------------------------|--------|--------------------------------------------|--------|--------------------------------------------|--------|--------------------------------------------|---------|--------------------------------------------|---------|
| LTE B12                                    |        | LTE B13                                    |        | LTE B26                                    |        | LTE B66                                    |         | LTE B25                                    |         |
| QPSK, 10 MHz Bandwidth, 1 RB, 25 RB Offset |        | QPSK, 10 MHz Bandwidth, 1 RB, 25 RB Offset |        | QPSK, 15 MHz Bandwidth, 1 RB, 36 RB Offset |        | QPSK, 20 MHz Bandwidth, 50 RB, 0 RB Offset |         | QPSK, 20 MHz Bandwidth, 1 RB, 50 RB Offset |         |
| Test Position                              | Right  | Test Position                              | Back   | Test Position                              | Back   | Test Position                              | Bottom  | Test Position                              | Bottom  |
| Spacing                                    | 10 mm  | Spacing                                    | 10 mm  | Spacing                                    | 10 mm  | Spacing                                    | 10 mm   | Spacing                                    | 10 mm   |
| Frequency (MHz)                            | 707.50 | Frequency (MHz)                            | 782.00 | Frequency (MHz)                            | 831.50 | Frequency (MHz)                            | 1770.00 | Frequency (MHz)                            | 1905.00 |
| Channel                                    | 23095  | Channel                                    | 23230  | Channel                                    | 26865  | Channel                                    | 132572  | Channel                                    | 26590   |
| Measured 1g SAR (W/kg)                     | 0.235  | Measured 1g SAR (W/kg)                     | 0.290  | Measured 1g SAR (W/kg)                     | 0.405  | Measured 1g SAR (W/kg)                     | 0.915   | Measured 1g SAR (W/kg)                     | 1.020   |
| 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 63)                       | 0.244  | Auto-tune (State 0)                        | 0.326  | Auto-tune (State 11)                       | 0.438  | Auto-tune (State 28)                       | 1.010   | Auto-tune (State 99)                       | 1.160   |
| Default (State 0)                          | 0.224  | Default (State 0)                          | 0.325  | Default (State 0)                          | 0.336  | Default (State 0)                          | 0.658   | Default (State 0)                          | 1.130   |
| State 19                                   | 0.170  | State 0                                    | 0.325  | State 11                                   | 0.453  | State 12                                   | 0.608   | State 10                                   | 1.040   |
| State 28                                   | 0.280  | State 18                                   | 0.218  | State 16                                   | 0.140  | State 28                                   | 1.010   | State 37                                   | 0.131   |
| State 63                                   | 0.270  | State 29                                   | 0.221  | State 31                                   | 0.245  | State 35                                   | 0.745   | State 58                                   | 0.182   |
| State 67                                   | 0.217  | State 66                                   | 0.233  | State 64                                   | 0.303  | State 60                                   | 0.195   | State 99                                   | 1.15    |
| State 111                                  | 0.148  | State 112                                  | 0.208  | State 113                                  | 0.290  | State 115                                  | 0.567   | State 116                                  | 0.996   |
| State 128                                  | 0.217  | State 127                                  | 0.155  | State 126                                  | 0.270  | State 124                                  | 0.746   | State 123                                  | 0.208   |
| State 134                                  | 0.238  | State 135                                  | 0.090  | State 136                                  | 0.269  | State 138                                  | 0.107   | State 139                                  | 1.1     |

**Table 15-10**  
**NR Supplemental Body SAR Data**

| Supplemental Body SAR Data                             |        |                                                        |         |                                                   |         |
|--------------------------------------------------------|--------|--------------------------------------------------------|---------|---------------------------------------------------|---------|
| NR Band n5                                             |        | NR Band n66                                            |         | NR Band n25                                       |         |
| DFT-s-OFDM QPSK, 20 MHz Bandwidth, 50 RB, 28 RB Offset |        | DFT-s-OFDM QPSK, 45 MHz Bandwidth, 1 RB, 240 RB Offset |         | CP-OFDM QPSK, 40 MHz Bandwidth, 1 RB, 1 RB Offset |         |
| Test Position                                          | Back   | Test Position                                          | Bottom  | Test Position                                     | Bottom  |
| Spacing                                                | 10 mm  | Spacing                                                | 10 mm   | Spacing                                           | 10 mm   |
| Frequency (MHz)                                        | 836.50 | Frequency (MHz)                                        | 1745.00 | Frequency (MHz)                                   | 1882.50 |
| Channel                                                | 167300 | Channel                                                | 349000  | Channel                                           | 376500  |
| Measured 1g SAR (W/kg)                                 | 0.407  | Measured 1g SAR (W/kg)                                 | 0.813   | Measured 1g SAR (W/kg)                            | 0.943   |
| Average Value of Time Sweep (W/kg)                     |        | Average Value of Time Sweep (W/kg)                     |         | Average Value of Time Sweep (W/kg)                |         |
| Auto-tune (State 10)                                   | 0.445  | Auto-tune (State 27)                                   | 0.946   | Auto-tune (State 99)                              | 1.030   |
| Default (State 0)                                      | 0.337  | Default (State 0)                                      | 0.845   | Default (State 0)                                 | 0.715   |
| State 4                                                | 0.215  | State 2                                                | 0.754   | State 1                                           | 0.627   |
| State 10                                               | 0.418  | State 27                                               | 0.951   | State 46                                          | 0.958   |
| State 43                                               | 0.055  | State 45                                               | 0.630   | State 62                                          | 0.120   |
| State 59                                               | 0.225  | State 61                                               | 0.251   | State 99                                          | 1.040   |
| State 117                                              | 0.334  | State 118                                              | 0.760   | State 119                                         | 0.147   |
| State 122                                              | 0.243  | State 121                                              | 0.156   | State 120                                         | 0.942   |
| State 140                                              | 0.289  | State 141                                              | 0.738   | State 142                                         | 0.868   |

|                                                    |                                       |                                          |
|----------------------------------------------------|---------------------------------------|------------------------------------------|
| <b>FCC ID: A3LSMS938B</b>                          | <b>RF EXPOSURE PART 1 TEST REPORT</b> | <b>Approved by:</b><br>Technical Manager |
| <b>Document S/N:</b><br>1M2408260069-01.A3L (Rev1) | <b>DUT Type:</b><br>Portable Handset  | Page 124 of 131                          |

# 16 EQUIPMENT LIST

| Manufacturer            | Model       | Description                                   | Cal Date   | Cal Interval | Cal Due    | Serial Number |
|-------------------------|-------------|-----------------------------------------------|------------|--------------|------------|---------------|
| Agilent                 | E4404B      | Spectrum Analyzer                             | N/A        | N/A          | N/A        | MP45112423    |
| Agilent                 | E4438C      | ESG Vector Signal Generator                   | 11/24/2023 | Annual       | 11/24/2024 | MP49288382    |
| Agilent                 | E4438C      | ESG Vector Signal Generator                   | 11/24/2023 | Annual       | 11/24/2024 | MP49288378    |
| Agilent                 | N9020A      | MMX Vector Signal Generator                   | 7/8/2024   | Annual       | 7/8/2025   | MP48010233    |
| Agilent                 | N5182A      | MMX Vector Signal Generator                   | 3/7/2024   | Annual       | 3/7/2025   | MP47426033    |
| Agilent                 | 8753ES      | S-Parameter Vector Network Analyzer           | 1/2/2024   | Annual       | 1/2/2025   | MP40002473    |
| Agilent                 | 8753ES      | S-Parameter Vector Network Analyzer           | 3/5/2024   | Annual       | 3/5/2025   | MP40002670    |
| Agilent                 | E5511C      | Wireless Communications Test Set              | CBT        | N/A          | CBT        | GB46103798    |
| Agilent                 | E5511C      | Wireless Communications Test Set              | CBT        | N/A          | CBT        | US41140255    |
| Agilent                 | E5511C      | Wireless Communications Test Set              | 1/10/2024  | Annual       | 1/10/2025  | MP50262130    |
| Agilent                 | N4910A      | Wireless Connectivity Test Set                | N/A        | N/A          | N/A        | GB46170464    |
| Amplifier Research      | 15510A      | Amplifier                                     | CBT        | N/A          | CBT        | 433973        |
| Amplifier Research      | 15510A      | Amplifier                                     | CBT        | N/A          | CBT        | 433974        |
| Amplifier Research      | 155A100C    | Amplifier                                     | CBT        | N/A          | CBT        | 350112        |
| Amplifier Research      | E5510A03    | Amplifier                                     | 7/10/2024  | Annual       | 7/10/2025  | 390982        |
| Anritsu                 | MRB110B     | I/O Adapter                                   | CBT        | N/A          | CBT        | 6261747885    |
| Anritsu                 | ML2495A     | Power Meter                                   | 6/24/2024  | Annual       | 6/24/2025  | 1848005       |
| Anritsu                 | ML2495A     | Power Meter                                   | 7/8/2024   | Annual       | 7/8/2025   | 209908        |
| Anritsu                 | MA2411B     | Pulse Power Sensor                            | 9/5/2024   | Annual       | 9/5/2025   | 1726262       |
| Anritsu                 | MA2411B     | Pulse Power Sensor                            | 11/8/2023  | Annual       | 11/8/2024  | 1027293       |
| Anritsu                 | MT8821C     | Radio Communication Analyzer MT8821C          | 12/15/2023 | Annual       | 12/15/2024 | 626065106     |
| Anritsu                 | MT8821C     | Radio Communication Analyzer MT8821C          | 5/15/2024  | Annual       | 5/15/2025  | 6262150047    |
| Anritsu                 | MT8821C     | Radio Communication Analyzer MT8821C          | 5/30/2024  | Annual       | 5/30/2025  | 6262044715    |
| Anritsu                 | MT8800A     | Radio Communication Test Station              | 4/21/2024  | N/A          | 4/21/2025  | 6272371439    |
| Anritsu                 | MT8800A     | Radio Communication Test Station              | 4/10/2024  | Annual       | 4/10/2025  | 6261987983    |
| Anritsu                 | MT8800A     | Radio Communication Test Station              | 5/2/2024   | Annual       | 5/2/2025   | 6273317436    |
| Anritsu                 | MA2410A     | USB Power Sensor                              | 12/4/2023  | Annual       | 12/4/2024  | 122051        |
| Anritsu                 | MA2410A     | USB Power Sensor                              | 4/15/2024  | Annual       | 4/15/2025  | 1827528       |
| Mini-Circuits           | PWR-4GHZ    | USB Power Sensor                              | 6/12/2024  | Annual       | 6/12/2025  | 13001070013   |
| Anritsu                 | MA2408A     | Microscale Peak Power Sensor                  | 4/8/2024   | Annual       | 4/8/2025   | 11879         |
| Anritsu                 | MA2410A     | USB Power Sensor                              | 7/9/2024   | Annual       | 7/9/2025   | 1246112       |
| Anritsu                 | MA2410A     | USB Power Sensor                              | 1/10/2024  | Annual       | 1/10/2025  | 1346157       |
| Control Company         | 4052        | Long Stem Thermometer                         | 2/27/2024  | Biennial     | 2/27/2026  | 24617446      |
| Control Company         | 4052        | Long Stem Thermometer                         | 2/27/2024  | Biennial     | 2/27/2026  | 24617396      |
| Control Company         | 4052        | Long Stem Thermometer                         | 2/27/2024  | Biennial     | 2/27/2026  | 24617395      |
| Control Company         | 4052        | Ultra Long Stem Thermometer                   | 1/15/2024  | Annual       | 1/15/2025  | 34628907      |
| Control Company         | 4040        | Therm / Clock Humidity Monitor                | 4/15/2024  | Biennial     | 4/15/2026  | 24633208      |
| Control Company         | 4040        | Therm / Clock Humidity Monitor                | 4/15/2024  | Biennial     | 4/15/2026  | 246310282     |
| Control Company         | 5687H       | Therm / Clock Humidity Monitor                | 2/16/2024  | Biennial     | 2/16/2026  | 246140553     |
| Testo                   | 608-HI      | ALARM HYGROMETER                              | 4/11/2024  | Annual       | 4/11/2025  | 83118971      |
| Testo                   | 608-HI      | ALARM HYGROMETER                              | 4/11/2024  | Annual       | 4/11/2025  | 83118952      |
| Testo                   | 608-HI      | ALARM HYGROMETER                              | 4/11/2024  | Annual       | 4/11/2025  | 83118953      |
| Midrange                | 500-100-30  | CD-9 ASK Direct Digital Caliper               | 2/16/2022  | Triennial    | 2/16/2025  | 246238413     |
| Navisphere Technologies | N9201A      | MMA Signal Analyzer                           | 4/11/2024  | Annual       | 4/11/2025  | MP4500644     |
| Agilent                 | N9201A      | MMA Signal Analyzer                           | 6/14/2024  | Annual       | 6/14/2025  | MP4547022     |
| Navisphere Technologies | N9201A      | MMA Signal Analyzer                           | 7/8/2024   | Annual       | 7/8/2025   | MP40002939    |
| MCCL                    | BW-N60W1+   | 6dB Attenuator                                | CBT        | N/A          | CBT        | 1139          |
| MCCL                    | BW-N120W1+  | Attenuator                                    | 7/9/2024   | Annual       | 7/9/2025   | 1507          |
| Mini-Circuits           | VLF-6000+   | Low Pass Filter DC to 6000 MHz                | CBT        | N/A          | CBT        | N/A           |
| Mini-Circuits           | VLF-6000+   | Low Pass Filter DC to 6000 MHz                | 7/10/2024  | Annual       | 7/10/2025  | 31634         |
| Mini-Circuits           | BW-N20W1+   | DC to 18 GHz Precision Fixed 20 dB Attenuator | CBT        | N/A          | CBT        | N/A           |
| Mini-Circuits           | NLP-1200+   | Low Pass Filter DC to 1200 MHz                | CBT        | N/A          | CBT        | N/A           |
| Mini-Circuits           | NLP-1200+   | Low Pass Filter DC to 1200 MHz                | 7/10/2024  | Annual       | 7/10/2025  | U013305138    |
| Mini-Circuits           | NLP-250H+   | Low Pass Filter DC to 250 MHz                 | CBT        | N/A          | CBT        | N/A           |
| Mini-Circuits           | NLP-250H+   | Low Pass Filter DC to 250 MHz                 | 7/10/2024  | Annual       | 7/10/2025  | U013305107    |
| Mini-Circuits           | BW-N20W1+   | Power Attenuator                              | CBT        | N/A          | CBT        | 1226          |
| Mini-Circuits           | DUC10-81.5+ | Directional Coupler                           | CBT        | N/A          | CBT        | 2950          |
| Narda                   | 4772.3      | Directional Coupler                           | 7/9/2024   | Annual       | 7/9/2025   | 2113          |
| Narda                   | 4772.3      | Attenuator (dB)                               | CBT        | N/A          | CBT        | 8406          |
| MCCL                    | BW-N10W1+   | Attenuator                                    | 7/9/2024   | Annual       | 7/9/2025   | 1608          |
| Narda                   | BW-510W2    | Attenuator (dB)                               | CBT        | N/A          | CBT        | 120           |
| Seslock                 | NC-100      | Torque Wrench                                 | CBT        | N/A          | CBT        | 2221.7        |
| Seslock                 | NC-100      | Torque Wrench                                 | 4/2/2024   | Biennial     | 4/2/2026   | 1742          |
| Rohde & Schwarz         | CMW500      | Wideband Radio Communication Tester           | 1/10/2024  | Annual       | 1/10/2025  | 131494        |
| Rohde & Schwarz         | CMW500      | Wideband Radio Communication Tester           | 8/10/2023  | Biennial     | 8/10/2025  | 140544        |
| Rohde & Schwarz         | CMW500      | Wideband Radio Communication Tester           | 4/9/2024   | Annual       | 4/9/2025   | 148736        |
| Rohde & Schwarz         | CMW500      | Wideband Radio Communication Tester           | 7/8/2024   | Annual       | 7/8/2025   | 168868        |
| Rohde & Schwarz         | CMW500      | Wideband Radio Communication Tester           | 1/10/2024  | Annual       | 1/10/2025  | 150117        |
| Rohde & Schwarz         | CMW500      | Wideband Radio Communication Tester           | 1/12/2024  | Annual       | 1/12/2025  | 171075        |
| SPEAG                   | DAS-3.5     | Portable DiElectric Assessment Kit            | 11/23/2023 | Annual       | 11/23/2024 | 1277          |
| SPEAG                   | DAS-3.5     | Portable DiElectric Assessment Kit            | 8/7/2024   | Annual       | 8/7/2025   | 1045          |
| SPEAG                   | DAS-3.5     | Portable DiElectric Assessment Kit            | 7/8/2024   | Annual       | 7/8/2025   | 1039          |
| SPEAG                   | MAIA        | Modulation and Audio Interference Analyzer    | N/A        | N/A          | N/A        | 1337          |
| SPEAG                   | MAIA        | Modulation and Audio Interference Analyzer    | N/A        | N/A          | N/A        | 1335          |
| SPEAG                   | MAIA        | Modulation and Audio Interference Analyzer    | N/A        | N/A          | N/A        | 1323          |
| SPEAG                   | MAIA        | Modulation and Audio Interference Analyzer    | N/A        | N/A          | N/A        | 1390          |
| SPEAG                   | DAK-12      | DiElectric Assessment Kit (MHz - 30MHz)       | 3/11/2024  | Annual       | 3/11/2025  | 1102          |
| SPEAG                   | CLA-11      | Confined Loop Antenna                         | 11/9/2023  | Annual       | 11/9/2024  | 1054          |
| SPEAG                   | DT70V1      | 750 Mhz SAR Dipole                            | 10/10/2021 | Triennial    | 10/10/2024 | 1161          |
| SPEAG                   | DT70V3      | 750 Mhz SAR Dipole                            | 3/14/2022  | Triennial    | 3/14/2025  | 1054          |
| SPEAG                   | DBSV2       | 815 Mhz SAR Dipole                            | 4/8/2024   | Annual       | 4/8/2025   | 40119         |
| SPEAG                   | DBSV2       | 815 Mhz SAR Dipole                            | 3/14/2022  | Triennial    | 3/14/2025  | 40047         |
| SPEAG                   | D175V2      | 1750 Mhz SAR Dipole                           | 5/10/2024  | Annual       | 5/10/2025  | 1050          |
| SPEAG                   | D175V2      | 1750 Mhz SAR Dipole                           | 10/22/2021 | Triennial    | 10/22/2024 | 1150          |
| SPEAG                   | D175V2      | 1750 Mhz SAR Dipole                           | 4/15/2024  | Annual       | 4/15/2025  | 1052          |
| SPEAG                   | D175V2      | 1750 Mhz SAR Dipole                           | 1/8/2024   | Triennial    | 1/8/2025   | 1146          |
| SPEAG                   | D190V2      | 1900 Mhz SAR Dipole                           | 6/8/2022   | Triennial    | 6/8/2025   | 54880         |
| SPEAG                   | D190V2      | 1900 Mhz SAR Dipole                           | 2/21/2023  | Triennial    | 2/21/2026  | 54048         |
| SPEAG                   | D190V2      | 1900 Mhz SAR Dipole                           | 4/12/2024  | Annual       | 4/12/2025  | 54041         |
| SPEAG                   | D190V2      | 1900 Mhz SAR Dipole                           | 5/10/2024  | Annual       | 5/10/2025  | 54026         |
| SPEAG                   | D245V2      | 2450 Mhz SAR Dipole                           | 5/10/2024  | Annual       | 5/10/2025  | 945           |
| SPEAG                   | D245V2      | 2450 Mhz SAR Dipole                           | 3/8/2024   | Annual       | 3/8/2025   | 882           |
| SPEAG                   | D245V2      | 2450 Mhz SAR Dipole                           | 6/14/2024  | Annual       | 6/14/2025  | 1059          |
| SPEAG                   | D190V2      | 1900 Mhz SAR Dipole                           | 4/10/2024  | Annual       | 4/10/2025  | 1127          |
| SPEAG                   | D170V2      | 1700 Mhz SAR Dipole                           | 6/10/2024  | Annual       | 6/10/2025  | 1096          |
| SPEAG                   | D190V2      | 1900 Mhz SAR Dipole                           | 6/10/2024  | Annual       | 6/10/2025  | 1074          |
| SPEAG                   | DS16HV2     | 1.6 GHz SAR Dipole                            | 4/9/2024   | Annual       | 4/9/2025   | 1237          |
| SPEAG                   | DS16HV2     | 1.6 GHz SAR Dipole                            | 2/22/2024  | Annual       | 2/22/2025  | 1111          |
| SPEAG                   | DS16HV2     | 1.6 GHz SAR Dipole                            | 1/10/2024  | Annual       | 1/10/2025  | 1018          |
| SPEAG                   | DS16HV2     | 1.6 GHz SAR Dipole                            | 3/4/2024   | Annual       | 3/4/2025   | 1007          |
| SPEAG                   | DS16HV2     | 1.6 GHz SAR Dipole                            | 3/5/2024   | Annual       | 3/5/2025   | 1000          |
| SPEAG                   | DAE4        | Day Data Acquisition Electronics              | 9/10/2024  | Annual       | 9/10/2025  | 1364          |
| SPEAG                   | DAE4        | Day Data Acquisition Electronics              | 3/8/2024   | Annual       | 3/8/2025   | 1350          |
| SPEAG                   | DAE4        | Day Data Acquisition Electronics              | 1/16/2024  | Annual       | 1/16/2025  | 1460          |
| SPEAG                   | DAE4        | Day Data Acquisition Electronics              | 2/9/2024   | Annual       | 2/9/2025   | 1445          |
| SPEAG                   | DAE4        | Day Data Acquisition Electronics              | 7/8/2024   | Annual       | 7/8/2025   | 1077          |
| SPEAG                   | DAE4        | Day Data Acquisition Electronics              | 7/8/2024   | Annual       | 7/8/2025   | 1183          |
| SPEAG                   | DAE4        | Day Data Acquisition Electronics              | 6/11/2024  | Annual       | 6/11/2025  | 1134          |
| SPEAG                   | DAE4        | Day Data Acquisition Electronics              | 4/18/2024  | Annual       | 4/18/2025  | 1407          |
| SPEAG                   | DAE4        | Day Data Acquisition Electronics              | 1/8/2024   | Annual       | 1/8/2025   | 728           |
| SPEAG                   | DAE4        | Day Data Acquisition Electronics              | 5/11/2024  | Annual       | 5/11/2025  | 1171          |
| SPEAG                   | DAE4        | Day Data Acquisition Electronics              | 3/6/2024   | Annual       | 3/6/2025   | 604           |
| SPEAG                   | DAE4        | Day Data Acquisition Electronics              | 3/6/2024   | Annual       | 3/6/2025   | 534           |
| SPEAG                   | DAE4        | Day Data Acquisition Electronics              | 9/10/2024  | Annual       | 9/10/2025  | 1449          |
| SPEAG                   | EK30V4      | SAR Probe                                     | 9/11/2024  | Annual       | 9/11/2025  | 7558          |
| SPEAG                   | EK30V4      | SAR Probe                                     | 5/10/2024  | Annual       | 5/10/2025  | 7462          |
| SPEAG                   | EK30V4      | SAR Probe                                     | 1/16/2024  | Annual       | 1/16/2025  | 7565          |
| SPEAG                   | EK30V4      | SAR Probe                                     | 2/9/2024   | Annual       | 2/9/2025   | 7540          |
| SPEAG                   | EK30V4      | SAR Probe                                     | 7/18/2024  | Annual       | 7/18/2025  | 7406          |
| SPEAG                   | EK30V4      | SAR Probe                                     | 6/28/2024  | Annual       | 6/28/2025  | 7601          |
| SPEAG                   | EK30V4      | SAR Probe                                     | 6/17/2024  | Annual       | 6/17/2025  | 7460          |
| SPEAG                   | EK30V4      | SAR Probe                                     | 4/11/2024  | Annual       | 4/11/2025  | 7059          |
| SPEAG                   | EK30V4      | SAR Probe                                     | 5/10/2024  | Annual       | 5/10/2025  | 8945          |
| SPEAG                   | EK30V4      | SAR Probe                                     | 1/8/2024   | Annual       | 1/8/2025   | 7527          |
| SPEAG                   | EK30V4      | SAR Probe                                     | 5/11/2024  | Annual       | 5/11/2025  | 7421          |
| SPEAG                   | EK30V4      | SAR Probe                                     | 2/9/2024   | Annual       | 2/9/2025   | 7309          |
| SPEAG                   | EK30V4      | SAR Probe                                     | 2/2/2024   | Annual       | 2/2/2025   | 9622          |

Note: 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.

Note: All equipment was used solely within its respective calibration period.

|                                                    |                                       |                                          |
|----------------------------------------------------|---------------------------------------|------------------------------------------|
| <b>FCC ID: A3LSMS938B</b>                          | <b>RF EXPOSURE PART 1 TEST REPORT</b> | <b>Approved by:</b><br>Technical Manager |
| <b>Document S/N:</b><br>1M2408260069-01.A3L (Rev1) | <b>DUT Type:</b><br>Portable Handset  | Page 125 of 131                          |

## 17 MEASUREMENT UNCERTAINTIES

Applicable for SAR measurements < 6GHz:

| a                                                                             | b                    | c             | d              | e=<br>f(d,k) | f                     | g                        | h =<br>c x f/e                 | i =<br>c x g/e                   | k              |
|-------------------------------------------------------------------------------|----------------------|---------------|----------------|--------------|-----------------------|--------------------------|--------------------------------|----------------------------------|----------------|
| Uncertainty Component                                                         | IEEE<br>1528<br>Sec. | 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                                                             | E.2.1                | 7             | N              | 1            | 1                     | 1                        | 7.0                            | 7.0                              | ∞              |
| Axial Isotropy                                                                | E.2.2                | 0.25          | N              | 1            | 0.7                   | 0.7                      | 0.2                            | 0.2                              | ∞              |
| Hemishperical Isotropy                                                        | E.2.2                | 1.3           | N              | 1            | 0.7                   | 0.7                      | 0.9                            | 0.9                              | ∞              |
| Boundary Effect                                                               | E.2.3                | 2             | R              | 1.73         | 1                     | 1                        | 1.2                            | 1.2                              | ∞              |
| Linearity                                                                     | E.2.4                | 0.3           | N              | 1            | 1                     | 1                        | 0.3                            | 0.3                              | ∞              |
| System Detection Limits                                                       | E.2.4                | 0.25          | R              | 1.73         | 1                     | 1                        | 0.1                            | 0.1                              | ∞              |
| Modulation Response                                                           | E.2.5                | 4.8           | R              | 1.73         | 1                     | 1                        | 2.8                            | 2.8                              | ∞              |
| Readout Electronics                                                           | E.2.6                | 0.3           | N              | 1            | 1                     | 1                        | 0.3                            | 0.3                              | ∞              |
| Response Time                                                                 | E.2.7                | 0.8           | R              | 1.73         | 1                     | 1                        | 0.5                            | 0.5                              | ∞              |
| Integration Time                                                              | E.2.8                | 2.6           | R              | 1.73         | 1                     | 1                        | 1.5                            | 1.5                              | ∞              |
| RF Ambient Conditions - Noise                                                 | E.6.1                | 3             | R              | 1.73         | 1                     | 1                        | 1.7                            | 1.7                              | ∞              |
| RF Ambient Conditions - Reflections                                           | E.6.1                | 3             | R              | 1.73         | 1                     | 1                        | 1.7                            | 1.7                              | ∞              |
| Probe Positioner Mechanical Tolerance                                         | E.6.2                | 0.8           | R              | 1.73         | 1                     | 1                        | 0.5                            | 0.5                              | ∞              |
| Probe Positioning w/ respect to Phantom                                       | E.6.3                | 6.7           | R              | 1.73         | 1                     | 1                        | 3.9                            | 3.9                              | ∞              |
| Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation | E.5                  | 4             | R              | 1.73         | 1                     | 1                        | 2.3                            | 2.3                              | ∞              |
| <b>Test Sample Related</b>                                                    |                      |               |                |              |                       |                          |                                |                                  |                |
| Test Sample Positioning                                                       | E.4.2                | 3.12          | N              | 1            | 1                     | 1                        | 3.1                            | 3.1                              | 35             |
| Device Holder Uncertainty                                                     | E.4.1                | 1.67          | N              | 1            | 1                     | 1                        | 1.7                            | 1.7                              | 5              |
| Output Power Variation - SAR drift measurement                                | E.2.9                | 5             | R              | 1.73         | 1                     | 1                        | 2.9                            | 2.9                              | ∞              |
| SAR Scaling                                                                   | E.6.5                | 0             | R              | 1.73         | 1                     | 1                        | 0.0                            | 0.0                              | ∞              |
| <b>Phantom &amp; Tissue Parameters</b>                                        |                      |               |                |              |                       |                          |                                |                                  |                |
| Phantom Uncertainty (Shape & Thickness tolerances)                            | E.3.1                | 7.6           | R              | 1.73         | 1.0                   | 1.0                      | 4.4                            | 4.4                              | ∞              |
| Liquid Conductivity - measurement uncertainty                                 | E.3.3                | 4.3           | N              | 1            | 0.78                  | 0.71                     | 3.3                            | 3.0                              | 76             |
| Liquid Permittivity - measurement uncertainty                                 | E.3.3                | 4.2           | N              | 1            | 0.23                  | 0.26                     | 1.0                            | 1.1                              | 75             |
| Liquid Conductivity - Temperature Uncertainty                                 | E.3.4                | 3.4           | R              | 1.73         | 0.78                  | 0.71                     | 1.5                            | 1.4                              | ∞              |
| Liquid Permittivity - Temperature Uncertainty                                 | E.3.4                | 0.6           | R              | 1.73         | 0.23                  | 0.26                     | 0.1                            | 0.1                              | ∞              |
| Liquid Conductivity - deviation from target values                            | E.3.2                | 5.0           | R              | 1.73         | 0.64                  | 0.43                     | 1.8                            | 1.2                              | ∞              |
| Liquid Permittivity - deviation from target values                            | E.3.2                | 5.0           | R              | 1.73         | 0.60                  | 0.49                     | 1.7                            | 1.4                              | ∞              |
| <b>Combined Standard Uncertainty (k=1)</b>                                    |                      |               |                |              |                       |                          | RSS                            | 12.2                             | 12.0           |
| <b>Expanded Uncertainty</b><br>(95% CONFIDENCE LEVEL)                         |                      |               |                |              |                       |                          | k=2                            | 24.4                             | 24.0           |

The above measurement uncertainties are according to IEEE Std. 1528-2013

|                                                    |                                       |                                          |
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Applicable for SAR measurements > 6GHz:

| a                                                                             | b                    | c             | d              | e=<br>f(d,k) | f                     | g                        | h =<br>c x f/e                 | i =<br>c x g/e                   | k              |
|-------------------------------------------------------------------------------|----------------------|---------------|----------------|--------------|-----------------------|--------------------------|--------------------------------|----------------------------------|----------------|
| Uncertainty Component                                                         | IEEE<br>1528<br>Sec. | 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                                                             | E.2.1                | 9.3           | N              | 1            | 1                     | 1                        | 9.3                            | 9.3                              | ∞              |
| Axial Isotropy                                                                | E.2.2                | 0.25          | N              | 1            | 0.7                   | 0.7                      | 0.2                            | 0.2                              | ∞              |
| Hemishperical Isotropy                                                        | E.2.2                | 1.3           | N              | 1            | 0.7                   | 0.7                      | 0.9                            | 0.9                              | ∞              |
| Boundary Effect                                                               | E.2.3                | 2             | R              | 1.73         | 1                     | 1                        | 1.2                            | 1.2                              | ∞              |
| Linearity                                                                     | E.2.4                | 0.3           | N              | 1            | 1                     | 1                        | 0.3                            | 0.3                              | ∞              |
| System Detection Limits                                                       | E.2.4                | 0.25          | R              | 1.73         | 1                     | 1                        | 0.1                            | 0.1                              | ∞              |
| Modulation Response                                                           | E.2.5                | 4.8           | R              | 1.73         | 1                     | 1                        | 2.8                            | 2.8                              | ∞              |
| Readout Electronics                                                           | E.2.6                | 0.3           | N              | 1            | 1                     | 1                        | 0.3                            | 0.3                              | ∞              |
| Response Time                                                                 | E.2.7                | 0.8           | R              | 1.73         | 1                     | 1                        | 0.5                            | 0.5                              | ∞              |
| Integration Time                                                              | E.2.8                | 2.6           | R              | 1.73         | 1                     | 1                        | 1.5                            | 1.5                              | ∞              |
| RF Ambient Conditions - Noise                                                 | E.6.1                | 3             | R              | 1.73         | 1                     | 1                        | 1.7                            | 1.7                              | ∞              |
| RF Ambient Conditions - Reflections                                           | E.6.1                | 3             | R              | 1.73         | 1                     | 1                        | 1.7                            | 1.7                              | ∞              |
| Probe Positioner Mechanical Tolerance                                         | E.6.2                | 0.8           | R              | 1.73         | 1                     | 1                        | 0.5                            | 0.5                              | ∞              |
| Probe Positioning w/ respect to Phantom                                       | E.6.3                | 6.7           | R              | 1.73         | 1                     | 1                        | 3.9                            | 3.9                              | ∞              |
| Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation | E.5                  | 4             | R              | 1.73         | 1                     | 1                        | 2.3                            | 2.3                              | ∞              |
| <b>Test Sample Related</b>                                                    |                      |               |                |              |                       |                          |                                |                                  |                |
| Test Sample Positioning                                                       | E.4.2                | 3.12          | N              | 1            | 1                     | 1                        | 3.1                            | 3.1                              | 35             |
| Device Holder Uncertainty                                                     | E.4.1                | 1.67          | N              | 1            | 1                     | 1                        | 1.7                            | 1.7                              | 5              |
| Output Power Variation - SAR drift measurement                                | E.2.9                | 5             | R              | 1.73         | 1                     | 1                        | 2.9                            | 2.9                              | ∞              |
| SAR Scaling                                                                   | E.6.5                | 0             | R              | 1.73         | 1                     | 1                        | 0.0                            | 0.0                              | ∞              |
| <b>Phantom &amp; Tissue Parameters</b>                                        |                      |               |                |              |                       |                          |                                |                                  |                |
| Phantom Uncertainty (Shape & Thickness tolerances)                            | E.3.1                | 7.6           | R              | 1.73         | 1.0                   | 1.0                      | 4.4                            | 4.4                              | ∞              |
| Liquid Conductivity - measurement uncertainty                                 | E.3.3                | 4.3           | N              | 1            | 0.78                  | 0.71                     | 3.3                            | 3.0                              | 76             |
| Liquid Permittivity - measurement uncertainty                                 | E.3.3                | 4.2           | N              | 1            | 0.23                  | 0.26                     | 1.0                            | 1.1                              | 75             |
| Liquid Conductivity - Temperature Uncertainty                                 | E.3.4                | 3.4           | R              | 1.73         | 0.78                  | 0.71                     | 1.5                            | 1.4                              | ∞              |
| Liquid Permittivity - Temperature Uncertainty                                 | E.3.4                | 0.6           | R              | 1.73         | 0.23                  | 0.26                     | 0.1                            | 0.1                              | ∞              |
| Liquid Conductivity - deviation from target values                            | E.3.2                | 5.0           | R              | 1.73         | 0.64                  | 0.43                     | 1.8                            | 1.2                              | ∞              |
| Liquid Permittivity - deviation from target values                            | E.3.2                | 5.0           | R              | 1.73         | 0.60                  | 0.49                     | 1.7                            | 1.4                              | ∞              |
| <b>Combined Standard Uncertainty (k=1)</b>                                    |                      |               |                |              |                       |                          | RSS                            | 13.8                             | 13.6           |
| <b>Expanded Uncertainty</b><br>(95% CONFIDENCE LEVEL)                         |                      |               |                |              |                       |                          | k=2                            | 27.6                             | 27.1           |

The above measurement uncertainties are according to IEEE Std. 1528-2013

|                                                    |                                       |                                          |
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Applicable for Power Density Measurements:

| a                                                     | b              | c              | d    | e              | f =<br>c x f/e           | g              |
|-------------------------------------------------------|----------------|----------------|------|----------------|--------------------------|----------------|
| Uncertainty Component                                 | Unc.<br>(± dB) | Prob.<br>Dist. | Div. | c <sub>i</sub> | u <sub>i</sub><br>(± dB) | v <sub>i</sub> |
| <b>Measurement System</b>                             |                |                |      |                |                          |                |
| Calibration                                           | 0.49           | N              | 1    | 1              | 0.49                     | ∞              |
| Probe Correction                                      | 0.00           | R              | 1.73 | 1              | 0.00                     | ∞              |
| Frequency Response                                    | 0.20           | R              | 1.73 | 1              | 0.12                     | ∞              |
| Sensor Cross Coupling                                 | 0.00           | R              | 1.73 | 1              | 0.00                     | ∞              |
| Isotropy                                              | 0.50           | R              | 1.73 | 1              | 0.29                     | ∞              |
| Linearity                                             | 0.20           | R              | 1.73 | 1              | 0.12                     | ∞              |
| Probe Scattering                                      | 0.00           | R              | 1.73 | 1              | 0.00                     | ∞              |
| Probe Positioning offset                              | 0.30           | R              | 1.73 | 1              | 0.17                     | ∞              |
| Probe Positioning Repeatability                       | 0.04           | R              | 1.73 | 1              | 0.02                     | ∞              |
| Sensor Mechanical Offset                              | 0.00           | R              | 1.73 | 1              | 0.00                     | ∞              |
| Probe Spatial Resolution                              | 0.00           | R              | 1.73 | 1              | 0.00                     | ∞              |
| Field Impedance Dependence                            | 0.00           | R              | 1.73 | 1              | 0.00                     | ∞              |
| Amplitude and Phase Drift                             | 0.00           | R              | 1.73 | 1              | 0.00                     | ∞              |
| Amplitude and Phase Noise                             | 0.04           | R              | 1.73 | 1              | 0.02                     | ∞              |
| Measurement Area Truncation                           | 0.00           | R              | 1.73 | 1              | 0.00                     | ∞              |
| Data Acquisition                                      | 0.03           | N              | 1    | 1              | 0.03                     | ∞              |
| Sampling                                              | 0.00           | R              | 1.73 | 1              | 0.00                     | ∞              |
| Field Reconstruction                                  | 2.00           | R              | 1.73 | 1              | 1.15                     | ∞              |
| Forward Transformation                                | 0.00           | R              | 1.73 | 1              | 0.00                     | ∞              |
| Power Density Scaling                                 | 0.00           | R              | 1.73 | 1              | 0.00                     | ∞              |
| Spatial Averaging                                     | 0.10           | R              | 1.73 | 1              | 0.06                     | ∞              |
| System Detection Limit                                | 0.04           | R              | 1.73 | 1              | 0.02                     | ∞              |
| <b>Test Sample Related</b>                            |                |                |      |                |                          |                |
| Probe Coupling with DUT                               | 0.00           | R              | 1.73 | 1              | 0.00                     | ∞              |
| Modulation Response                                   | 0.40           | R              | 1.73 | 1              | 0.23                     | ∞              |
| Integration Time                                      | 0.00           | R              | 1.73 | 1              | 0.00                     | ∞              |
| Response Time                                         | 0.00           | R              | 1.73 | 1              | 0.00                     | ∞              |
| Device Holder Influence                               | 0.10           | R              | 1.73 | 1              | 0.06                     | ∞              |
| DUT alignment                                         | 0.00           | R              | 1.73 | 1              | 0.00                     | ∞              |
| RF Ambient Conditions                                 | 0.04           | R              | 1.73 | 1              | 0.02                     | ∞              |
| Ambient Reflections                                   | 0.04           | R              | 1.73 | 1              | 0.02                     | ∞              |
| Immunity/Secondary Reception                          | 0.00           | R              | 1.73 | 1              | 0.00                     | ∞              |
| Drift of DUT                                          | 0.21           | R              | 1.73 | 1              | 0.12                     | ∞              |
| <b>Combined Standard Uncertainty (k=1)</b>            |                |                |      |                | RSS                      | 1.34           |
| <b>Expanded Uncertainty</b><br>(95% CONFIDENCE LEVEL) |                |                |      |                | k=2                      | 2.68           |

|                                                    |                                       |                                          |
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## 18 CONCLUSION

### 18.1 Measurement Conclusion

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

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

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