

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                                                                                                |                                      |                                                                                     |            |                                                                                       |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------|--|
| <b>Prüfbericht-Nr.:</b><br>Test report no.:                                                                                                                                                                                                                                                                                                                                                                                                                          |  | <b>CN268P4L 001</b>                                                                                                                                            | <b>Auftrags-Nr.:</b><br>Order no.:   |                                                                                     | 169872380  | Seite 1 von 61<br>Page 1 of 61                                                        |  |
| <b>Kunden-Referenz-Nr.:</b><br>Client reference no.:                                                                                                                                                                                                                                                                                                                                                                                                                 |  | N/A                                                                                                                                                            | <b>Auftragsdatum:</b><br>Order date: |                                                                                     | 2026-07-21 |                                                                                       |  |
| <b>Auftraggeber:</b><br>Client:                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | Shenzhen DOOGEE Hengtong Technology CO.,LTD<br>B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park, No. 22, Longhua New District Shenzhen, China |                                      |                                                                                     |            |                                                                                       |  |
| <b>Prüfgegenstand:</b><br>Test item:                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | Smart Phone                                                                                                                                                    |                                      |                                                                                     |            |                                                                                       |  |
| <b>Bezeichnung / Typ-Nr.:</b><br>Identification / Type no.:                                                                                                                                                                                                                                                                                                                                                                                                          |  | Note70 X<br>(Trademark: DOOGEE)                                                                                                                                |                                      |                                                                                     |            |                                                                                       |  |
| <b>Auftrags-Inhalt:</b><br>Order content:                                                                                                                                                                                                                                                                                                                                                                                                                            |  | SAR Test Report                                                                                                                                                |                                      |                                                                                     |            |                                                                                       |  |
| <b>Prüfgrundlage:</b><br>Test specification:                                                                                                                                                                                                                                                                                                                                                                                                                         |  | FCC 47 CFR § 2.1093<br>IEEE Std 1528-2013<br>IEC/IEEE 62209-1528: 2020<br>Published RF exposure KDB procedures                                                 |                                      |                                                                                     |            |                                                                                       |  |
| <b>Wareneingangsdatum:</b><br>Date of sample receipt:                                                                                                                                                                                                                                                                                                                                                                                                                |  | 2026-07-21                                                                                                                                                     |                                      |  |            |                                                                                       |  |
| <b>Prüfmuster-Nr.:</b><br>Test sample no.:                                                                                                                                                                                                                                                                                                                                                                                                                           |  | 867400020316612 /<br>867400020316620                                                                                                                           |                                      |                                                                                     |            |                                                                                       |  |
| <b>Prüfzeitraum:</b><br>Testing period:                                                                                                                                                                                                                                                                                                                                                                                                                              |  | 2026-07-25 - 2026-08-04                                                                                                                                        |                                      |                                                                                     |            |                                                                                       |  |
| <b>Ort der Prüfung:</b><br>Place of testing:                                                                                                                                                                                                                                                                                                                                                                                                                         |  | TÜV Rheinland<br>(Shenzhen) Co., Ltd.                                                                                                                          |                                      |                                                                                     |            |                                                                                       |  |
| <b>Prüflaboratorium:</b><br>Testing laboratory:                                                                                                                                                                                                                                                                                                                                                                                                                      |  | TÜV Rheinland<br>(Shenzhen) Co., Ltd.                                                                                                                          |                                      |                                                                                     |            |                                                                                       |  |
| <b>Prüfergebnis*:</b><br>Test result*:                                                                                                                                                                                                                                                                                                                                                                                                                               |  | Pass                                                                                                                                                           |                                      |                                                                                     |            |                                                                                       |  |
| <b>geprüft von:</b><br>tested by:                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                                                             |                                      | <b>genehmigt von:</b><br>authorized by:                                             |            |  |  |
| <b>Datum:</b><br>Date:                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | 2026-08-07<br><small>Signed by: Jonathan Li</small>                                                                                                            |                                      | <b>Ausstellungsdatum:</b><br>Issue date:                                            |            | 2026-08-07<br><small>Signed by: Bell Hu</small>                                       |  |
| <b>Stellung / Position:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | Sachverständige(r)/Expert                                                                                                                                      |                                      | <b>Stellung / Position:</b>                                                         |            | Sachverständige(r)/Expert                                                             |  |
| <b>Sonstiges /</b> FCC ID:2AX4Y-NOTE70X<br><b>Other:</b>                                                                                                                                                                                                                                                                                                                                                                                                             |  |                                                                                                                                                                |                                      |                                                                                     |            |                                                                                       |  |
| <b>Zustand des Prüfgegenstandes bei Anlieferung:</b><br>Condition of the test item at delivery:                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                                                                                                |                                      | Prüfmuster vollständig und unbeschädigt<br>Test item complete and undamaged         |            |                                                                                       |  |
| <small>* Legende: P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet</small><br><small>* Legend: P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested</small>                                                                                                                                               |  |                                                                                                                                                                |                                      |                                                                                     |            |                                                                                       |  |
| <b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b><br><i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i> |  |                                                                                                                                                                |                                      |                                                                                     |            |                                                                                       |  |

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**Anmerkungen**  
*Remarks*

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | <p>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.</p> <p>Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 2 | <p>Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben. Informationen zur Verifizierung der Authentizität unserer Dokumente erhalten Sie auf folgender Webseite: <a href="http://go.tuv.com/digital-signature">go.tuv.com/digital-signature</a></p> <p><i>As contractually agreed, this document has been signed digitally only. TUV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TUV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged. For information on verifying the authenticity of our documents, please visit the following website: <a href="http://go.tuv.com/digital-signature">go.tuv.com/digital-signature</a></i></p> |
| 3 | <p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben.</p> <p>Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i></p> <p><i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 4 | <p>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</p> <p><i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i></p>                                                                                                                                                                                                                                                                                       |

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**Appendix A: SAR Plots of System Verification**

**Appendix B: SAR Plots of SAR Measurement**

**Appendix C: Calibration Certificate for probe and Dipole**

**Appendix D: Photographs of EUT and setup**

## 1. General Information

### 1.1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for the EUT are as follows:

| Equipment Class                              | Mode             | Highest Reported Head SAR <sub>1g</sub> (W/kg) | Highest Reported Body-worn SAR <sub>1g</sub> (0.5 cm Gap) (W/kg) | Highest Reported Hotspot SAR <sub>1g</sub> (1.0 cm Gap) (W/kg) |
|----------------------------------------------|------------------|------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------|
| <b>PCE</b>                                   | <b>GSM850</b>    | 0.115                                          | 0.880                                                            | 0.311                                                          |
|                                              | <b>GSM1900</b>   | 0.083                                          | 0.484                                                            | 0.319                                                          |
|                                              | <b>WCDMA II</b>  | 0.148                                          | 0.706                                                            | 0.568                                                          |
|                                              | <b>WCDMA IV</b>  | 0.115                                          | 0.880                                                            | 0.457                                                          |
|                                              | <b>WCDMA V</b>   | 0.090                                          | 0.707                                                            | 0.396                                                          |
|                                              | <b>LTE 2</b>     | 0.140                                          | 0.551                                                            | 0.333                                                          |
|                                              | <b>LTE 4</b>     | 0.209                                          | 0.696                                                            | 0.466                                                          |
|                                              | <b>LTE 7</b>     | 0.083                                          | 0.705                                                            | 0.419                                                          |
|                                              | <b>LTE 12</b>    | 0.017                                          | 0.113                                                            | 0.056                                                          |
|                                              | <b>LTE 25</b>    | 0.112                                          | 0.795                                                            | 0.579                                                          |
|                                              | <b>LTE 66</b>    | 0.200                                          | 0.795                                                            | 0.547                                                          |
| <b>DTS</b>                                   | <b>2.4G WLAN</b> | 0.277                                          | 0.582                                                            | 0.219                                                          |
| <b>NII</b>                                   | <b>5.2G WLAN</b> | 0.277                                          | 0.516                                                            | 0.257                                                          |
|                                              | <b>5.8G WLAN</b> | 0.124                                          | 0.459                                                            | 0.117                                                          |
| <b>DSS</b>                                   | <b>Bluetooth</b> | 0.111                                          | 0.034                                                            | /                                                              |
| <b>Highest Simultaneous Transmission SAR</b> |                  | <b>Head (W/kg)</b>                             | <b>Body-worn (W/kg)</b>                                          | <b>Hotspot (W/kg)</b>                                          |
| <b>PCE + DTS</b>                             |                  | <b>0.554</b>                                   | <b>1.396</b>                                                     | <b>0.798</b>                                                   |
| <b>PCE + NII</b>                             |                  | 0.417                                          | 1.339                                                            | 0.696                                                          |
| <b>PCE + DSS</b>                             |                  | 0.392                                          | 0.914                                                            | 0.579                                                          |

**Note:**

This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6W/kg as averaged over any 1 gram of tissue; 10-gram SAR for Product Specific 10g SAR, limit: 4.0W/kg) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992/ IC RSS-102 Issue 6:2023, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013 and FCC KDB publications.

## 1.2. Equipment Under Test (EUT) Information

### 1.2.1. General Information

|                        |                                                                                                                                                 |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Equipment Name</b>  | Smart Phone                                                                                                                                     |
| <b>FCC ID</b>          | 2AX4Y-NOTE70X                                                                                                                                   |
| <b>Brand Name</b>      | DOOGEE                                                                                                                                          |
| <b>Model Name</b>      | Note70 X                                                                                                                                        |
| <b>Series Model</b>    | Note 70, Note70 Pro, Note70 Ultra, Note70 Max, Note 80, Note80 Pro, Note80 Ultra, Note80 Max, A11, A11 Plus, A11 Pro, A11S, A11S Plus, A11S Pro |
| <b>Mode difference</b> | The difference only lies in appearance color, memory size, and model name; all other aspects are identical.                                     |
| <b>IMEI Code</b>       | 867400020316612 / 867400020316620                                                                                                               |
| <b>HW Version</b>      | SC7302QU_MB_V1.0.0                                                                                                                              |
| <b>SW Version</b>      | D00GEE-M30 Pro-EEA-Android16.0-20260304                                                                                                         |
| <b>Antenna Type</b>    | PIFA Antenna                                                                                                                                    |
| <b>EUT Stage</b>       | Production Unit                                                                                                                                 |

### 1.2.2. Wireless Technologies

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Wireless Technology and Frequency Range</b> | GSM850: 824.2 MHz ~ 848.8 MHz<br>GSM1900: 1850.2 MHz ~ 1909.8 MHz<br>WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz<br>WCDMA Band IV: 1712.4 MHz ~ 1752.6 MHz<br>WCDMA Band V: 826.4 MHz ~ 846.6 MHz<br>LTE Band 2: 1850.7 MHz ~ 1909.3 MHz<br>LTE Band 4: 1710.7 MHz ~ 1754.3 MHz<br>LTE Band 5: 824.7 MHz ~ 848.3 MHz<br>LTE Band 12: 699 MHz ~ 716 MHz<br>LTE Band 25: 1850.7 MHz ~ 1914.3 MHz<br>LTE Band 66: 1710.7 MHz ~ 1779.3 MHz<br>WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz<br>WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz<br>WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz<br>Bluetooth: 2402 MHz ~ 2480 MHz<br>NFC: 13.56MHz |
| <b>Uplink Modulations</b>                      | GSM & GPRS & EDGE: GMSK, 8PSK<br>WCDMA: BPSK, QPSK<br>LTE: QPSK, 16QAM<br>802.11b: DSSS<br>WLAN 2.4G 802.11g/n (HT20)/HT40: OFDM<br>WLAN 5G 802.11a/n (HT20)/HT40 /ac(VHT80): OFDM<br>Bluetooth® GFSK, $\pi/4$ -DQPSK, 8-DPSK, LE<br>NFC: ASK                                                                                                                                                                                                                                                                                                                                                                   |

**Note:**

- The above EUT information is declared by manufacturer and for more detailed description please refer to the manufacturer's specifications or User's Manual.

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## 2. Test Sites

### 2.1. Test Facilities

**TÜV Rheinland (Shenzhen) Co., Ltd.**

2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, People's Republic of China

A2LA Cert. No.: 5162.01

### 2.2. Ambient Condition

|                     |             |
|---------------------|-------------|
| Ambient Temperature | 21°C - 23°C |
| Relative Humidity   | 50% - 60%   |

### 2.3. List of Test and Measurement Instruments

| Equipment                           | Manufacturer | Model          | SN         | Cal. Date     | Cal. Interval |
|-------------------------------------|--------------|----------------|------------|---------------|---------------|
| Data Acquisition Electronics        | Speag        | DAE4           | 1557       | Nov. 21, 2025 | 1 Year        |
| E-field Probe                       | Speag        | EX3DV4         | 7506       | Nov. 28, 2025 | 1 Year        |
| System Validation Dipole            | Speag        | D750V3         | 1109       | Jun. 07, 2024 | 3 Years       |
| System Validation Dipole            | Speag        | D835V2         | 4d242      | Jun. 07, 2024 | 3 Years       |
| System Validation Dipole            | Speag        | D1750V2        | 1166       | Jun. 07, 2024 | 3 Years       |
| System Validation Dipole            | Speag        | D1900V2        | 5d229      | Jun. 06, 2024 | 3 Years       |
| System Validation Dipole            | Speag        | D2450V2        | 1014       | Jun. 06, 2024 | 3 Years       |
| System Validation Dipole            | Speag        | D2600V2        | 1153       | Jun. 06, 2024 | 3 Years       |
| System Validation Dipole            | Speag        | D5GHzV2        | 1280       | Jun. 06, 2024 | 3 Years       |
| Wideband Radio Communication Tester | R&S          | CMW500         | 166305     | Sep. 23, 2025 | 1 year        |
| Signal Analyzer                     | R&S          | FSV 7          | 103665     | Sep. 23, 2025 | 1 year        |
| Vector Network Analyzer             | R&S          | ZNB 8          | 107040     | Sep. 23, 2025 | 1 year        |
| Dielectric assessment Kit           | SPEAG        | DAK-3.5        | 1269       | Oct. 09, 2024 | 3 years       |
| Signal Generator                    | R&S          | SMB 100A       | 180840     | Sep. 23, 2025 | 1 year        |
| EPM Series Power Meter              | Keysight     | N1914A         | MY58240005 | Oct. 27, 2025 | 1 year        |
| Power Sensor                        | Keysight     | N8481H         | MY58250002 | Oct. 27, 2025 | 1 year        |
| Power Sensor                        | Keysight     | N8481H         | MY58250006 | Oct. 27, 2025 | 1 year        |
| DC Power Supply                     | Topward      | 3303D          | 809332     | Oct. 27, 2025 | 1 year        |
| Coaxial Directional Coupler         | Keysight     | 773D           | MY52180552 | Oct. 27, 2025 | 1 year        |
| Coaxial Directional Coupler         | shhuaxiang   | DTO-0.4/3.9-10 | 18052101   | Oct. 27, 2025 | 1 year        |
| Coaxial attenuator                  | Keysight     | 8491A          | MY52463219 | Oct. 27, 2025 | 1 year        |
| Coaxial attenuator                  | Keysight     | 8491A          | MY52463210 | Oct. 27, 2025 | 1 year        |
| Coaxial attenuator                  | Keysight     | 8491A          | MY52463222 | Oct. 27, 2025 | 1 year        |

### 3. Measurement Uncertainty

| Source of Uncertainty                        | Tolerance<br>(± %) | Probability<br>Distribution | Divisor | Ci<br>(1g) | Ci<br>(10g) | Standard<br>Uncertainty<br>(1g) | Standard<br>Uncertainty<br>(10g) | Vi<br>Veff |
|----------------------------------------------|--------------------|-----------------------------|---------|------------|-------------|---------------------------------|----------------------------------|------------|
| <b>Measurement System Errors</b>             |                    |                             |         |            |             |                                 |                                  |            |
| Probe Calibration                            | ±13.3%             | Normal<br>(k=2)             | 2       | 1          | 1           | ± 6.65 %                        | ± 6.65 %                         | ∞          |
| Probe Calibration Drift                      | ±1.7%              | Rectangular                 | √3      | 1          | 1           | ±1.0%                           | ±1.0%                            | ∞          |
| Probe Linearity                              | ±4.7%              | Rectangular                 | √3      | 1          | 1           | ±2.7%                           | ±2.7%                            | ∞          |
| Broadband Signal                             | ±3.0%              | Rectangular                 | √3      | 1          | 1           | ±1.7%                           | ±1.7%                            | ∞          |
| Probe Isotropy                               | ±7.6%              | Rectangular                 | √3      | 1          | 1           | ±4.4%                           | ±4.4%                            | ∞          |
| Other Probe +<br>Electronic                  | ±0.7%              | Normal                      | 1       | 1          | 1           | ±0.7%                           | ±0.7%                            | ∞          |
| RF Ambient                                   | ±1.8%              | Normal                      | 1       | 1          | 1           | ±1.8%                           | ±1.8%                            | ∞          |
| Probe Positioning                            | ±0.006mm           | Normal                      | 1       | 0.14       | 0.14        | ±0.10%                          | ±0.10%                           | ∞          |
| Data Processing                              | ±1.2%              | Normal                      | 1       | 1          | 1           | ±1.2%                           | ±1.2%                            | ∞          |
| <b>Phantom and Device Errors</b>             |                    |                             |         |            |             |                                 |                                  |            |
| Conductivity<br>(meas. VDAK)                 | ±2.5%              | Normal                      | 1       | 0.78       | 0.71        | ±2.0%                           | ±1.8%                            | 100        |
| Conductivity (temp.) <sup>BB</sup>           | ±3.3%              | Rectangular                 | √3      | 0.78       | 0.71        | ±1.5%                           | ±1.4%                            | ∞          |
| Phantom Permittivity                         | ±14.0%             | Rectangular                 | √3      | 0          | 0           | ±0%                             | ±0%                              | ∞          |
| Distance DUT – TSL                           | ±2.0%              | Normal                      | 1       | 2          | 2           | ±4.0%                           | ±4.0%                            | ∞          |
| Device Positioning                           | ±2.4%/±2.8<br>%    | Normal                      | 1       | 1          | 1           | ±2.8%                           | ±2.8%                            | 30         |
| Device Holder                                | ±3.4%/±3.5<br>%    | Normal                      | 1       | 1          | 1           | ±3.5%                           | ±3.5%                            | 30         |
| DUT Modulation <sup>m</sup>                  | ±2.4%              | Rectangular                 | √3      | 1          | 1           | ±1.4%                           | ±1.4%                            | ∞          |
| Time-average SAR                             | ±1.7%              | Rectangular                 | √3      | 1          | 1           | ±1.0%                           | ±1.0%                            | ∞          |
| DUT drift                                    | ±2.5%              | Normal                      | 1       | 1          | 1           | ±2.5%                           | ±2.5%                            | 30         |
| Val Antenna Unc. <sup>val</sup>              | ±0.0%              | Normal                      | 1       | 1          | 1           | ±0%                             | ±0%                              |            |
| Unc. Input Power <sup>val</sup>              | ±0.0%              | Normal                      | 1       | 1          | 1           | ±0%                             | ±0%                              |            |
| <b>Correction to the SAR results</b>         |                    |                             |         |            |             |                                 |                                  |            |
| C(ε,σ)                                       | ±1.9%              | Normal                      | 1       | 1          | 0.84        | ±1.9%                           | ±1.6%                            |            |
| SAR scaling <sup>p</sup>                     | ±0.0%              | Rectangular                 | √3      | 1          | 1           | ±0%                             | ±0%                              |            |
| <b>Combined Standard Uncertainty (K = 1)</b> |                    |                             |         |            |             | ±12.54%                         | ±12.44%                          |            |
| <b>Expanded Uncertainty (K = 2)</b>          |                    |                             |         |            |             | ±25.1%                          | ±24.9%                           |            |

**Uncertainty budget for frequency range 300 MHz to 3 GHz**

| Source of Uncertainty                        | Tolerance<br>(± %) | Probability<br>Distribution | Divisor | Ci<br>(1g) | Ci<br>(10g) | Standard<br>Uncertainty<br>(1g) | Standard<br>Uncertainty<br>(10g) | Vi<br>Veff |
|----------------------------------------------|--------------------|-----------------------------|---------|------------|-------------|---------------------------------|----------------------------------|------------|
| <b>Measurement System Errors</b>             |                    |                             |         |            |             |                                 |                                  |            |
| Probe Calibration                            | ±13.1%             | Normal<br>(k=2)             | 2       | 1          | 1           | ± 6.55 %                        | ± 6.55 %                         | ∞          |
| Probe Calibration Drift                      | ±1.7%              | Rectangular                 | √3      | 1          | 1           | ±1.0%                           | ±1.0%                            | ∞          |
| Probe Linearity                              | ±4.7%              | Rectangular                 | √3      | 1          | 1           | ±2.7%                           | ±2.7%                            | ∞          |
| Broadband Signal                             | ±2.6%              | Rectangular                 | √3      | 1          | 1           | ±1.5%                           | ±1.5%                            | ∞          |
| Probe Isotropy                               | ±7.6%              | Rectangular                 | √3      | 1          | 1           | ±4.4%                           | ±4.4%                            | ∞          |
| Other Probe +<br>Electronic                  | ±1.2%              | Normal                      | 1       | 1          | 1           | ±1.2%                           | ±1.2%                            | ∞          |
| RF Ambient                                   | ±1.8%              | Normal                      | 1       | 1          | 1           | ±1.8%                           | ±1.8%                            | ∞          |
| Probe Positioning                            | ±0.005mm           | Normal                      | 1       | 0.29       | 0.29        | ±0.15%                          | ±0.15%                           | ∞          |
| Data Processing                              | ±2.3%              | Normal                      | 1       | 1          | 1           | ±2.3%                           | ±2.3%                            | ∞          |
| <b>Phantom and Device Errors</b>             |                    |                             |         |            |             |                                 |                                  |            |
| Conductivity (meas.) <sup>DAK</sup>          | ±2.5%              | Normal                      | 1       | 0.78       | 0.71        | ±2.0%                           | ±1.8%                            | 60         |
| Conductivity (temp.) <sup>BB</sup>           | ±3.3%              | Rectangular                 | √3      | 0.78       | 0.71        | ±1.5%                           | ±1.4%                            | ∞          |
| Phantom Permittivity                         | ±14.0%             | Rectangular                 | √3      | 0.25       | 0.25        | ±2%                             | ±2%                              | ∞          |
| Distance DUT – TSL                           | ±2.0%              | Normal                      | 1       | 2          | 2           | ±4.0%                           | ±4.0%                            | ∞          |
| Device Positioning                           | ±2.4%/±2.8%        | Normal                      | 1       | 1          | 1           | ±2.8%                           | ±2.8%                            | 30         |
| Device Holder                                | ±3.4%/±3.5%        | Normal                      | 1       | 1          | 1           | ±3.5%                           | ±3.5%                            | 30         |
| DUT Modulation <sup>m</sup>                  | ±2.4%              | Rectangular                 | √3      | 1          | 1           | ±1.4%                           | ±1.4%                            | ∞          |
| Time-average SAR                             | ±1.7%              | Rectangular                 | √3      | 1          | 1           | ±1.0%                           | ±1.0%                            | ∞          |
| DUT drift                                    | ±2.5%              | Normal                      | 1       | 1          | 1           | ±2.5%                           | ±2.5%                            | 30         |
| Val Antenna Unc. <sup>val</sup>              | ±0.0%              | Normal                      | 1       | 1          | 1           | ±0%                             | ±0%                              |            |
| Unc. Input Power <sup>val</sup>              | ±0.0%              | Normal                      | 1       | 1          | 1           | ±0%                             | ±0%                              |            |
| <b>Correction to the SAR results</b>         |                    |                             |         |            |             |                                 |                                  |            |
| Deviation to Target                          | ±1.9%              | Normal                      | 1       | 1          | 0.84        | ±1.9%                           | ±1.6%                            |            |
| SAR scaling <sup>p</sup>                     | ±0.0%              | Rectangular                 | √3      | 1          | 1           | ±0%                             | ±0%                              |            |
| <b>Combined Standard Uncertainty (K = 1)</b> |                    |                             |         |            |             | ±12.8%                          | ±12.7%                           |            |
| <b>Expanded Uncertainty (K = 2)</b>          |                    |                             |         |            |             | ±25.6%                          | ±25.4%                           |            |

**Uncertainty budget for frequency range 3 GHz to 6 GHz**

## 4. Test Specification, Methods and Procedures

The tests documented in this report were performed in accordance with FCC 47 CFR § 2.1093, IEEE STD 1528- 2013, the following FCC Published RF exposure KDB procedures & manufacturer KDB inquiries:

- KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- KDB 865664 D02 RF Exposure Reporting v01r02
- KDB 248227 D01 802 11 Wi-Fi SAR v02r02
- KDB 447498 D01 General RF Exposure Guidance v06
- KDB 648474 D04 Handset SAR v01r03
- KDB 941225 D01 3G SAR Procedures v03r01
- KDB 941225 D05 SAR for LTE Devices v02r05
- KDB 941225 D06 Hotspot Mode v02r01
- IEC/IEEE 62209-1528:2020 Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Part 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz)

In addition to the above, the following information was used:

- [TCB workshop](#) October, 2014; Page 36, RF Exposure Procedures Update (Overlapping LTE Bands)
- [TCB workshop](#) October, 2014; Page 37, LTE Considerations (LTE Band 41 Test Channels)
- [TCB workshop](#) April, 2019; Page 19, Tissue Simulating Liquids(TSL)

## 5. SAR Measurement System

### 5.1. Definition of Specific Absorption Rate (SAR)

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density ( $\rho$ ). The equation description is as below:

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

SAR is expressed in units of Watts per kilogram (W/kg)

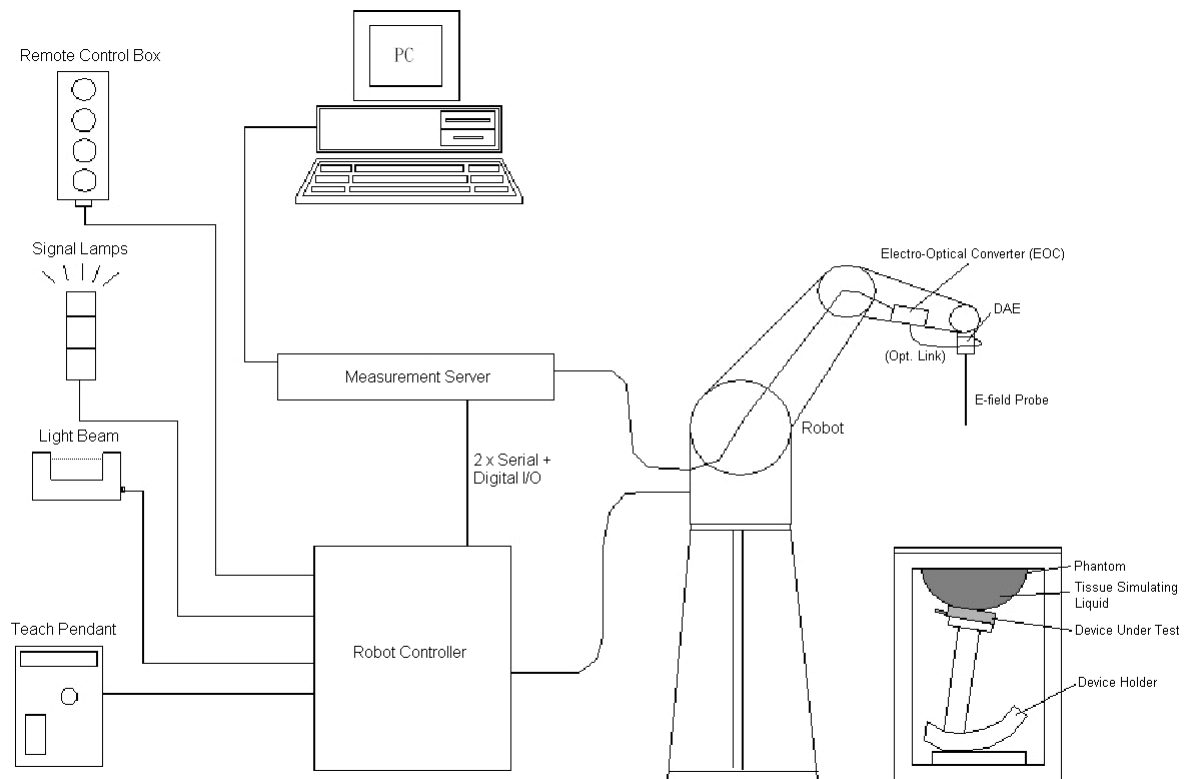
SAR measurement can be related to the electrical field in the tissue by

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

Where:  $\sigma$  is the conductivity of the tissue,  $\rho$  is the mass density of the tissue and E is the RMS electrical field strength.

### 5.2. SPEAG DASY System

DASY system consists of high precision robot, probe alignment sensor, phantom, robot controller, controlled measurement server and near-field probe. The robot includes six axes that can move to the precision position of the DASY5 software defined. The DASY software can define the area that is detected by the probe. The robot is connected to controlled box. Controlled measurement server is connected to the controlled robot box. The DAE includes amplifier, signal multiplexing, AD converter, offset measurement and surface detection. It is connected to the Electro-optical coupler (ECO). The ECO performs the conversion from the optical into digital electric signal of the DAE and transfers data to the PC.

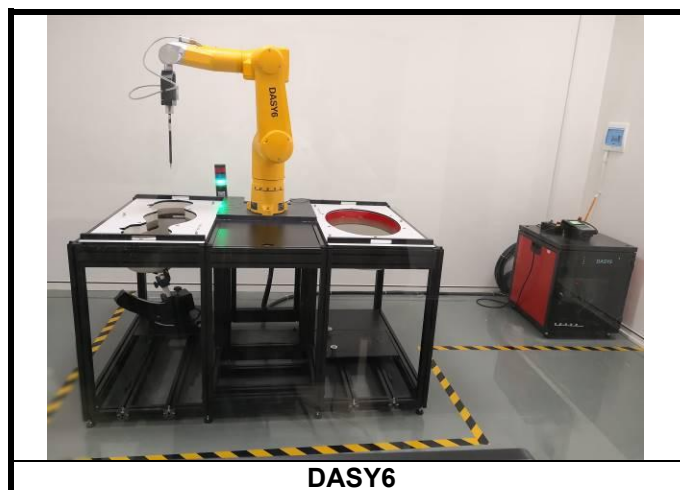


## DASY System Setup

### 5.2.1.Robot

The DASY system uses the high precision robots from Stäubli SA (France). For the 6-axis controller system, the robot controller version (DASY5: CS8c) from Stäubli is used. The Stäubli robot series have many features that are important for our application:

- High precision (repeatability  $\pm 0.035$  mm)
- High reliability (industrial design)
- Jerk-free straight movements
- Low ELF interference (the closed metallic construction shields against motor control fields)



**DASY6**

### 5.2.2. Probes

The SAR measurement is conducted with the dosimetric probe. The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency.

|                      |                                                                                                                                                          |                                                                                     |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>Model</b>         | EX3DV4                                                                                                                                                   |  |
| <b>Construction</b>  | Symmetrical design with triangular core. Built-in shielding against static charges. PEEK enclosure material (resistant to organic solvents, e.g., DGBE). |                                                                                     |
| <b>Frequency</b>     | 4 MHz – 10 GHz<br>Linearity: $\pm 0.2$ dB (30 MHz – 10 GHz)                                                                                              |                                                                                     |
| <b>Directivity</b>   | $\pm 0.1$ dB in TSL (rotation around probe axis)<br>$\pm 0.3$ dB in TSL (rotation normal to probe axis)                                                  |                                                                                     |
| <b>Dynamic Range</b> | 10 $\mu$ W/g – >100 mW/g<br>Linearity: $\pm 0.2$ dB (noise: typically <1 $\mu$ W/g)                                                                      |                                                                                     |
| <b>Dimensions</b>    | Overall length: 337 mm (tip: 20 mm)<br>Tip diameter: 2.5 mm (body: 12 mm)<br>Typical distance from probe tip to dipole centers: 1 mm                     |                                                                                     |

### 5.2.3. Data Acquisition Electronics (DAE)

|                             |                                                                                                                                                                                                                                                     |                                                                                      |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>Model</b>                | DAE4                                                                                                                                                                                                                                                |  |
| <b>Construction</b>         | Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY embedded system (fully remote controlled). Two step probe touch detector for mechanical surface detection and emergency robot stop. |                                                                                      |
| <b>Measurement Range</b>    | -100 to +300 mV (16 bit resolution and two range settings: 4mV, 400mV)                                                                                                                                                                              |                                                                                      |
| <b>Input Offset Voltage</b> | < 5 $\mu$ V (with auto zero)                                                                                                                                                                                                                        |                                                                                      |
| <b>Input Bias Current</b>   | < 50 fA                                                                                                                                                                                                                                             |                                                                                      |
| <b>Dimensions</b>           | 60 x 60 x 68 mm                                                                                                                                                                                                                                     |                                                                                      |

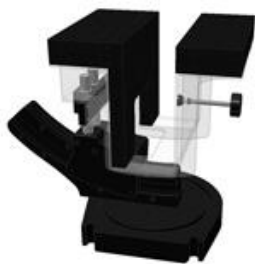
**5.2.4. Phantoms**

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                     |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>Model</b>           | Twin SAM                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
| <b>Construction</b>    | The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEC/IEEE 62209-1528. It enables the dosimetric evaluation of left and right hand phone usage as well as body-mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot. |                                                                                     |
| <b>Material</b>        | Vinylester, glass fiber reinforced (VE-GF)                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                     |
| <b>Shell Thickness</b> | $2 \pm 0.2$ mm ( $6 \pm 0.2$ mm at ear point)                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                     |
| <b>Dimensions</b>      | Length: 1000 mm<br>Width: 500 mm<br>Height: adjustable feet                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                     |
| <b>Filling Volume</b>  | approx. 25 liters                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                     |

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                      |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>Model</b>           | ELI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| <b>Construction</b>    | The ELI phantom is used for compliance testing of handheld and body-mounted wireless devices in the frequency range of 4 MHz to 10 GHz. ELI is fully compatible with the IEC/IEEE 62209-1528 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all of SPEAG's dosimetric probes and dipoles. |                                                                                      |
| <b>Material</b>        | Vinylester, glass fiber reinforced (VE-GF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                      |
| <b>Shell Thickness</b> | $2.0 \pm 0.2$ mm (bottom plate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                      |
| <b>Dimensions</b>      | Major axis: 600 mm<br>Minor axis: 400 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                      |
| <b>Filling Volume</b>  | approx. 30 liters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                      |

**5.2.5. Device Holder**

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                     |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>Model</b>        | Mounting Device                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>Construction</b> | In combination with the Twin SAM Phantom or ELI4, the Mounting Device enables the rotation of the mounted transmitter device in spherical coordinates. Rotation point is the ear opening point. Transmitter devices can be easily and accurately positioned according to IEC, IEEE, FCC or other specifications. The device holder can be locked for positioning at different phantom sections (left head, right head, flat). |                                                                                     |
| <b>Material</b>     | POM                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                     |

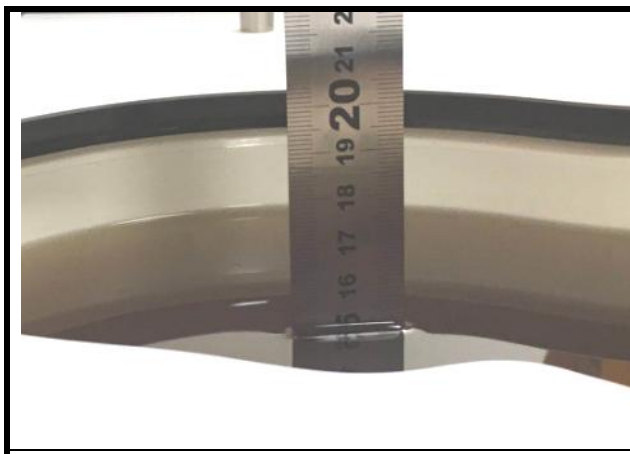
|                     |                                                                                                                                                                                                                                                                                            |                                                                                     |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>Model</b>        | Laptop Extensions Kit                                                                                                                                                                                                                                                                      |  |
| <b>Construction</b> | Simple but effective and easy-to-use extension for Mounting Device that facilitates the testing of larger devices according to IEC 62209-1528 (e.g., laptops, cameras, etc.). It is lightweight and fits easily on the upper part of the Mounting Device in place of the phone positioner. |                                                                                     |
| <b>Material</b>     | POM, Acrylic glass, Foam                                                                                                                                                                                                                                                                   |                                                                                     |

**5.2.6. System Validation Dipoles**

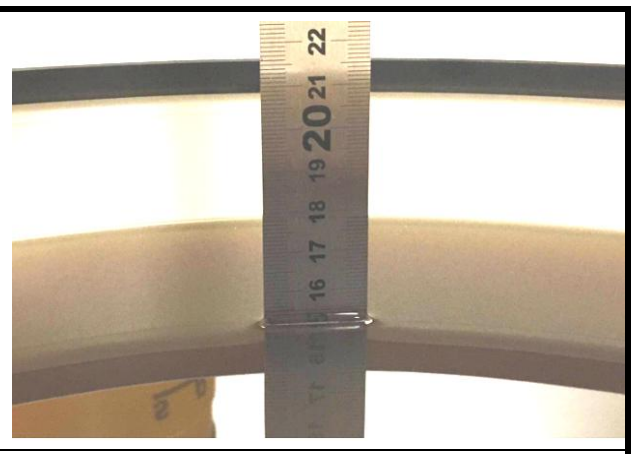
|                         |                                                                                                                                                                      |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Model</b>            | D-Serial                                                                                                                                                             |  |
| <b>Construction</b>     | Symmetrical dipole with 1/4 balun. Enables measurement of feed point impedance with NWA. Matched for use near flat phantoms filled with tissue simulating solutions. |                                                                                       |
| <b>Frequency</b>        | 750 MHz to 5800 MHz                                                                                                                                                  |                                                                                       |
| <b>Return Loss</b>      | > 20 dB                                                                                                                                                              |                                                                                       |
| <b>Power Capability</b> | > 100 W ( $f < 1\text{GHz}$ ), > 40 W ( $f > 1\text{GHz}$ )                                                                                                          |                                                                                       |

### 5.2.7. Tissue Simulating Liquids

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15 cm. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm. The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 5% are listed.



**Photo of Liquid Height for Head Position**



**Photo of Liquid Height for Body Position**

The dielectric properties of the head tissue simulating liquids are defined in IEEE 1528. The dielectric properties of the tissue simulating liquids were verified prior to the SAR evaluation using a dielectric assessment kit and a network analyzer.

**Targets of Tissue Simulating Liquid**

| Frequency (MHz) | Target Permittivity | Range of $\pm 5\%$ | Target Conductivity | Range of $\pm 5\%$ |
|-----------------|---------------------|--------------------|---------------------|--------------------|
| <b>For Head</b> |                     |                    |                     |                    |
| 750             | 41.9                | 39.8 ~ 44.0        | 0.89                | 0.85 ~ 0.93        |
| 835             | 41.5                | 39.4 ~ 43.6        | 0.90                | 0.86 ~ 0.95        |
| 900             | 41.5                | 39.4 ~ 43.6        | 0.97                | 0.92 ~ 1.02        |
| 1450            | 40.5                | 38.5 ~ 42.5        | 1.20                | 1.14 ~ 1.26        |
| 1640            | 40.3                | 38.3 ~ 42.3        | 1.29                | 1.23 ~ 1.35        |
| 1750            | 40.1                | 38.1 ~ 42.1        | 1.37                | 1.30 ~ 1.44        |
| 1800            | 40.0                | 38.0 ~ 42.0        | 1.40                | 1.33 ~ 1.47        |
| 1900            | 40.0                | 38.0 ~ 42.0        | 1.40                | 1.33 ~ 1.47        |
| 2000            | 40.0                | 38.0 ~ 42.0        | 1.40                | 1.33 ~ 1.47        |
| 2300            | 39.5                | 37.5 ~ 41.5        | 1.67                | 1.59 ~ 1.75        |
| 2450            | 39.2                | 37.2 ~ 41.2        | 1.80                | 1.71 ~ 1.89        |
| 2600            | 39.0                | 37.1 ~ 41.0        | 1.96                | 1.86 ~ 2.06        |
| 3500            | 37.9                | 36.0 ~ 39.8        | 2.91                | 2.76 ~ 3.06        |
| 5200            | 36.0                | 34.2 ~ 37.8        | 4.66                | 4.43 ~ 4.89        |
| 5300            | 35.9                | 34.1 ~ 37.7        | 4.76                | 4.52 ~ 5.00        |
| 5500            | 35.6                | 33.8 ~ 37.4        | 4.96                | 4.71 ~ 5.21        |
| 5600            | 35.5                | 33.7 ~ 37.3        | 5.07                | 4.82 ~ 5.32        |
| 5800            | 35.3                | 33.5 ~ 37.1        | 5.27                | 5.01 ~ 5.53        |

The following table gives the recipes for tissue simulating liquids.

**Recipes of Tissue Simulating Liquid**

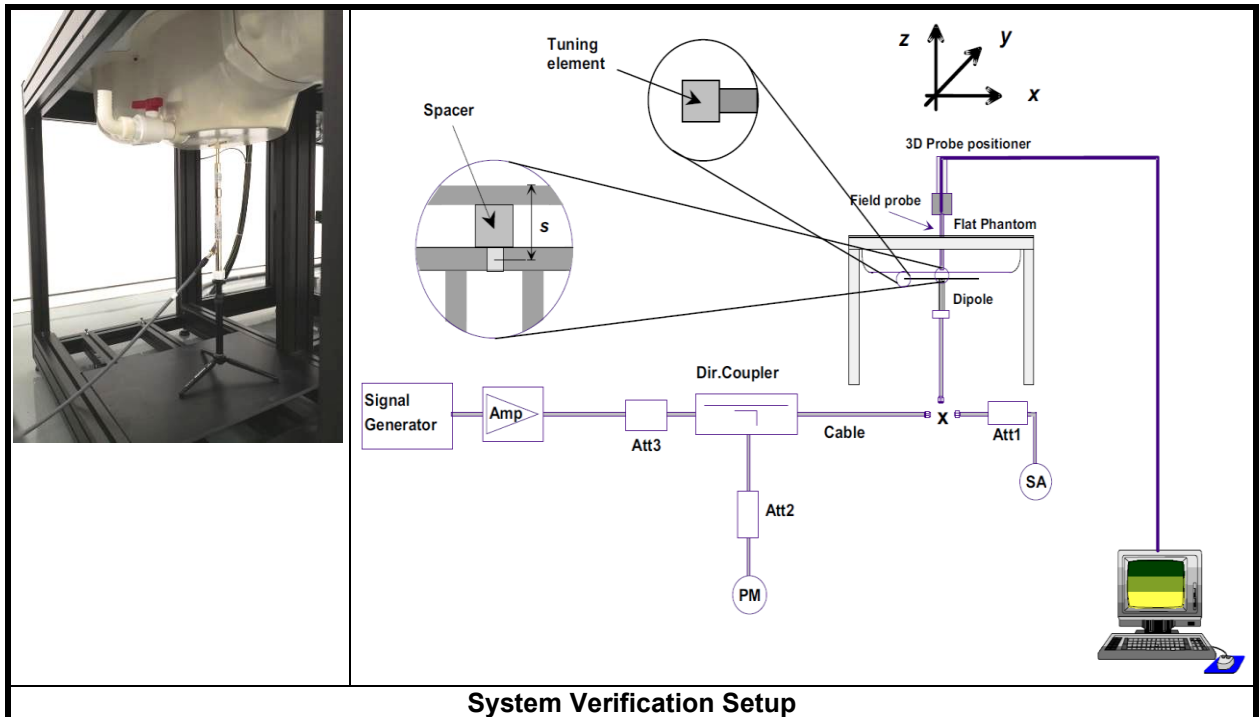
| Tissue Type | Bactericide | DGBE | HEC | NaCl | Sucrose | Triton X-100 | Water | Diethylene Glycol Mono-hexylether |
|-------------|-------------|------|-----|------|---------|--------------|-------|-----------------------------------|
| H750        | 0.2         | -    | 0.2 | 1.5  | 56.0    | -            | 42.1  | -                                 |
| H835        | 0.2         | -    | 0.2 | 1.5  | 57.0    | -            | 41.1  | -                                 |
| H900        | 0.2         | -    | 0.2 | 1.4  | 58.0    | -            | 40.2  | -                                 |
| H1450       | -           | 43.3 | -   | 0.6  | -       | -            | 56.1  | -                                 |
| H1640       | -           | 45.8 | -   | 0.5  | -       | -            | 53.7  | -                                 |
| H1750       | -           | 47.0 | -   | 0.4  | -       | -            | 52.6  | -                                 |
| H1800       | -           | 44.5 | -   | 0.3  | -       | -            | 55.2  | -                                 |
| H1900       | -           | 44.5 | -   | 0.2  | -       | -            | 55.3  | -                                 |
| H2000       | -           | 44.5 | -   | 0.1  | -       | -            | 55.4  | -                                 |
| H2300       | -           | 44.9 | -   | 0.1  | -       | -            | 55.0  | -                                 |
| H2450       | -           | 45.0 | -   | 0.1  | -       | -            | 54.9  | -                                 |
| H2600       | -           | 45.1 | -   | 0.1  | -       | -            | 54.8  | -                                 |
| H3500       | -           | 8.0  | -   | 0.2  | -       | 20.0         | 71.8  | -                                 |
| H5G         | -           | -    | -   | -    | -       | 17.2         | 65.5  | 17.3                              |

**Simulating Head Liquid (HBBL600-6000MHz), Manufactured by SPEAG:**

| Water (% by weight) | Esters, Emulsifiers, Inhibitors (% by weight) | Sodium salt (% by weight) |
|---------------------|-----------------------------------------------|---------------------------|
| 50 - 65%            | 10 - 30%                                      | 8 - 25%                   |

### 5.2.8.SAR System Verification

The system check verifies that the system operates within its specifications. It is performed daily or before every SAR measurement. The system check uses normal SAR measurements in the flat section of the phantom with a matched dipole at a specified distance. The system verification setup is shown as below.



The validation dipole is placed beneath the flat phantom with the specific spacer in place. The distance spacer is touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The spectrum analyzer measures the forward power at the location of the system check dipole connector. The signal generator is adjusted for the desired forward power (250 mW is used for 700 MHz to 2 GHz, 100 mW is used for 2.30 GHz to 6 GHz) at the dipole connector and the power meter is read at that level. After connecting the cable to the dipole, the signal generator is readjusted for the same reading at power meter.

After system check testing, the SAR result will be normalized to 1W forward input power and compared with the reference SAR value derived from validation dipole certificate report. The deviation of system check should be within 10 %.

## 6. SAR Measurement Procedure

According to the SAR test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- (a) Power reference measurement
- (b) Area scan
- (c) Zoom scan
- (d) Power drift measurement

The SAR measurement procedures for each of test conditions are as follows:

- (a) Make EUT to transmit maximum output power
- (b) Measure conducted output power through RF cable
- (c) Place the EUT in the specific position of phantom
- (d) Perform SAR testing steps on the DASY system
- (e) Record the SAR value

### 6.1. Area & Zoom Scan Procedure

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g. According to KDB 865664 D01, the resolution for Area and Zoom scan is specified in the table below.

| Items                                 | <= 2 GHz | 2-3 GHz  | 3-4 GHz  | 4-5 GHz  | 5-6 GHz  |
|---------------------------------------|----------|----------|----------|----------|----------|
| Area Scan<br>( $\Delta x, \Delta y$ ) | <= 15 mm | <= 12 mm | <= 12 mm | <= 10 mm | <= 10 mm |
| Zoom Scan<br>( $\Delta x, \Delta y$ ) | <= 8 mm  | <= 5 mm  | <= 5 mm  | <= 4 mm  | <= 4 mm  |
| Zoom Scan<br>( $\Delta z$ )           | <= 5 mm  | <= 5 mm  | <= 4 mm  | <= 3 mm  | <= 2 mm  |
| Zoom Scan<br>Volume                   | >= 30 mm | >= 30 mm | >= 28 mm | >= 25 mm | >= 22 mm |

**Note:**

When zoom scan is required and report SAR is <= 1.4 W/kg, the zoom scan resolution of  $\Delta x / \Delta y$  (2-3GHz: <= 8 mm, 3-4GHz: <= 7 mm, 4-6GHz: <= 5 mm) may be applied.

### 6.2. Volume Scan Procedure

The volume scan is used for assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing. When all volume scan were completed, the software, SEMCAD postprocessor can combine and subsequently superpose these measurement data to calculating the multiband SAR.

### 6.3. Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In DASY measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drift more than 5%, the SAR will be retested.

### 6.4. Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The DASY software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine (SEMCAD). The system always gives the maximum values for the 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- (a) Extraction of the measured data (grid and values) from the Zoom Scan
- (b) Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
- (c) Generation of a high-resolution mesh within the measured volume
- (d) Interpolation of all measured values from the measurement grid to the high-resolution grid
- (e) Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
- (f) Calculation of the averaged SAR within masses of 1g and 10g

### 6.5. SAR Averaged Methods

In DASY, the interpolation and extrapolation are both based on the modified Quadratic Shepard's method. The interpolation scheme combines a least-square fitted function method and a weighted average method which are the two basic types of computational interpolation and approximation.

Extrapolation routines are used to obtain SAR values between the lowest measurement points and the inner phantom surface. The extrapolation distance is determined by the surface detection distance and the probe sensor offset. The uncertainty increases with the extrapolation distance. To keep the uncertainty within 1% for the 1 g and 10 g cubes, the extrapolation distance should not be larger than 5 mm.

## 7. SAR Measurement Evaluation

### 7.1. EUT Configuration and Setting

#### <Connections between EUT and System Simulator>

For WWAN SAR testing, the EUT was linked and controlled by base station emulator (R&S\_CMW500). Communication between the EUT and the emulator was established by air link. The distance between the EUT and the communicating antenna of the emulator is larger than 50 cm and the output power radiated from the emulator antenna is at least 30 dB smaller than the output power of EUT. The EUT was set from the emulator to radiate maximum output power during SAR testing.

#### <Considerations Related to GSM / GPRS / EDGE for Setup and Testing>

The maximum multi-slot capability supported by this device is as below.

1. This EUT is class B device
2. This EUT supports GPRS multi-slot class 12 (max. uplink: 4, max. downlink: 4, total timeslots: 5)
3. This EUT supports EDGE multi-slot class 12 (max. uplink: 4, max. downlink: 4, total timeslots: 5)

For GSM850 frequency band, the power control level is set to 5 for GSM mode and GPRS (GMSK: CS1), and set to 8 for EDGE (GMSK: MCS1, 8PSK: MCS9). For GSM1900 frequency band, the power control level is set to 0 for GSM mode and GPRS (GMSK: CS1), and set to 2 for EDGE (GMSK: MCS1, 8PSK: MCS9).

SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.

### <Considerations Related to WCDMA for Setup and Testing>

#### WCDMA Handsets Head SAR

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.

#### WCDMA Handsets Body-worn SAR

SAR for body-worn configurations 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 other spreading codes and multiple DPDCH<sub>n</sub> configurations supported by the handset with 12.2 kbps RMC as the primary mode.

#### Handsets with Release 5 HSDPA

The 3G SAR test reduction procedure is applied to HSDPA body-worn configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for HSDPA using the HSDPA body SAR procedures in the "Release 5 HSDPA Data Devices", for the highest reported SAR body-worn exposure configuration in 12.2 kbps RMC. Handsets with both HSDPA and HSUPA are tested according to Release 6 HSPA test procedures.

#### Handsets with Release 6 HSUPA

The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) body-worn configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for HSPA using the HSPA body SAR procedures in the "Release 6 HSPA Data Devices", for the highest reported body-worn exposure SAR configuration in 12.2 kbps RMC. When VOIP is applicable for next to the ear head exposure in HSPA, the 3G SAR test reduction procedure is applied to HSPA with 12.2 kbps RMC as the primary mode; otherwise, the same HSPA configuration used for body-worn measurements is tested for next to the ear head exposure.

#### Release 5 HSDPA Data Devices

The 3G SAR test reduction procedure is applied to body SAR 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. HSDPA is configured according to the applicable UE category of a test device. The number of HS-DSCH / HS-PDSCHs, HARQ processes, minimum inter-TTI interval, transport block sizes and RV coding sequence are defined by the H-set. To maintain a consistent test configuration and stable transmission conditions, QPSK is used in the H-set for SAR testing. HS-DPCCH should be configured with a CQI feedback cycle of 4 ms and a CQI repetition factor of 2 to maintain a constant rate of active CQI slots. DPCCH and DPDCH gain factors ( $\beta_c$ ,  $\beta_d$ ), and HS-DPCCH power offset parameters ( $\Delta_{ACK}$ ,  $\Delta_{NACK}$ ,  $\Delta_{CQI}$ ) are set according to values indicated in below. The CQI value is determined by the UE category, transport block size, number of HS-PDSCHs and modulation used in the H-set.

| Sub-test | $\beta_c$              | $\beta_d$              | $\beta_d$<br>(SF) | $\beta_c / \beta_d$    | $\beta_{hs}^{(1)}$ | CM (dB) <sup>(2)</sup> | MPR |
|----------|------------------------|------------------------|-------------------|------------------------|--------------------|------------------------|-----|
| 1        | 2 / 15                 | 15 / 15                | 64                | 2 / 15                 | 4 / 15             | 0.0                    | 0   |
| 2        | 12 / 15 <sup>(3)</sup> | 15 / 15 <sup>(3)</sup> | 64                | 12 / 15 <sup>(3)</sup> | 24 / 15            | 1.0                    | 0   |
| 3        | 15 / 15                | 8 / 15                 | 64                | 15 / 8                 | 30 / 15            | 1.5                    | 0.5 |
| 4        | 15 / 15                | 4 / 15                 | 64                | 15 / 4                 | 30 / 15            | 1.5                    | 0.5 |

Note 1:  $\Delta_{ACK}$ ,  $\Delta_{NACK}$  and  $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs} / \beta_c = 30 / 15 \Leftrightarrow \beta_{hs} = 30 / 15 * \beta_c$ .

Note 2: CM = 1 for  $\beta_c / \beta_d = 12 / 15$ ,  $\beta_{hs} / \beta_c = 24 / 15$ .

Note 3: For subtest 2 the  $\beta_c / \beta_d$  ratio of 12 / 15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to  $\beta_c = 11 / 15$  and  $\beta_d = 15 / 15$ .

### Release 6 HSPA Data Devices

The 3G SAR test reduction procedure is applied to body SAR 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. Due to inner loop power control requirements in HSPA, a communication test set is required for output power and SAR tests. The 12.2 kbps RMC, FRC H-set 1 and E-DCH configurations for HSPA are configured according to the  $\beta$  values indicated in below.

| Sub-test | $\beta_c$      | $\beta_d$      | $\beta_d$ (SF) | $\beta_c / \beta_d$ | $\beta_{hs}^{(1)}$ | $\beta_{ec}$ | $\beta_{ed}$                                 | $\beta_{ed}$ (SF) | $\beta_{ed}$ (codes) | CM <sup>(2)</sup> (dB) | MPR (dB) | AG <sup>(4)</sup> Index | E-TFCI |
|----------|----------------|----------------|----------------|---------------------|--------------------|--------------|----------------------------------------------|-------------------|----------------------|------------------------|----------|-------------------------|--------|
| 1        | 11 / 15<br>(3) | 15 / 15<br>(3) | 64             | 11 / 15<br>(3)      | 22 / 15            | 209 / 225    | 1039 / 225                                   | 4                 | 1                    | 1.0                    | 0.0      | 20                      | 75     |
| 2        | 6 / 15         | 15 / 15        | 64             | 6 / 15              | 12 / 15            | 12 / 15      | 94 / 75                                      | 4                 | 1                    | 3.0                    | 2.0      | 12                      | 67     |
| 3        | 15 / 15        | 9 / 15         | 64             | 15 / 9              | 30 / 15            | 30 / 15      | $\beta_{ed1}: 47/15$<br>$\beta_{ed2}: 47/15$ | 4                 | 2                    | 2.0                    | 1.0      | 15                      | 92     |
| 4        | 2 / 15         | 15 / 15        | 64             | 2 / 15              | 4 / 15             | 2 / 15       | 56 / 75                                      | 4                 | 1                    | 3.0                    | 2.0      | 17                      | 71     |
| 5        | 15 / 15<br>(4) | 15 / 15<br>(4) | 64             | 15 / 15<br>(4)      | 30 / 15            | 24 / 15      | 134 / 15                                     | 4                 | 1                    | 1.0                    | 0.0      | 21                      | 81     |

Note 1:  $\Delta_{ACK}$ ,  $\Delta_{NACK}$  and  $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs} / \beta_c = 30 / 15 \Leftrightarrow \beta_{hs} = 30 / 15 * \beta_c$ .

Note 2: CM = 1 for  $\beta_c / \beta_d = 12 / 15$ ,  $\beta_{hs} / \beta_c = 24 / 15$ . For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note 3: For subtest 1 the  $\beta_c / \beta_d$  ratio of 11 / 15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to  $\beta_c = 10 / 15$  and  $\beta_d = 15 / 15$ .

Note 4: For subtest 5 the  $\beta_c / \beta_d$  ratio of 15 / 15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to  $\beta_c = 14 / 15$  and  $\beta_d = 15 / 15$ .

Note 5: Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g.

Note 6:  $\beta_{ed}$  cannot be set directly; it is set by Absolute Grant Value.

### <Considerations Related to LTE for Setup and Testing>

This device contains LTE transmitter which follows 3GPP standards, is category 3, supports both QPSK and 16QAM modulations, and supported LTE band and channel bandwidth is listed in below. The output power was tested per 3GPP TS 36.521-1 maximum transmit procedures for both QPSK and 16QAM modulation. The results please refer to section 4.6 of this report.

| EUT Supported LTE Band and Channel Bandwidth |            |          |          |           |           |           |
|----------------------------------------------|------------|----------|----------|-----------|-----------|-----------|
| LTE Band                                     | BW 1.4 MHz | BW 3 MHz | BW 5 MHz | BW 10 MHz | BW 15 MHz | BW 20 MHz |
| 2                                            | V          | V        | V        | V         | V         | V         |
| 4                                            | V          | V        | V        | V         | V         | V         |
| 5                                            | V          | V        | V        | V         |           |           |
| 12                                           | V          | V        | V        | V         |           |           |
| 25                                           | V          | V        | V        | V         | V         | V         |
| 66                                           | V          | V        | V        | V         | V         | V         |

The LTE maximum power reduction (MPR) in accordance with 3GPP TS 36.101 is active all times during LTE operation. The allowed MPR for the maximum output power is specified in below.

| Modulation | Channel Bandwidth / RB Configurations |          |          |           |           |           | LTE MPR Setting (dB) |
|------------|---------------------------------------|----------|----------|-----------|-----------|-----------|----------------------|
|            | BW 1.4 MHz                            | BW 3 MHz | BW 5 MHz | BW 10 MHz | BW 15 MHz | BW 20 MHz |                      |
| QPSK       | > 5                                   | > 4      | > 8      | > 12      | > 16      | > 18      | 1                    |
| 16QAM      | <= 5                                  | <= 4     | <= 8     | <= 12     | <= 16     | <= 18     | 1                    |
| 16QAM      | > 5                                   | > 4      | > 8      | > 12      | > 16      | > 18      | 2                    |

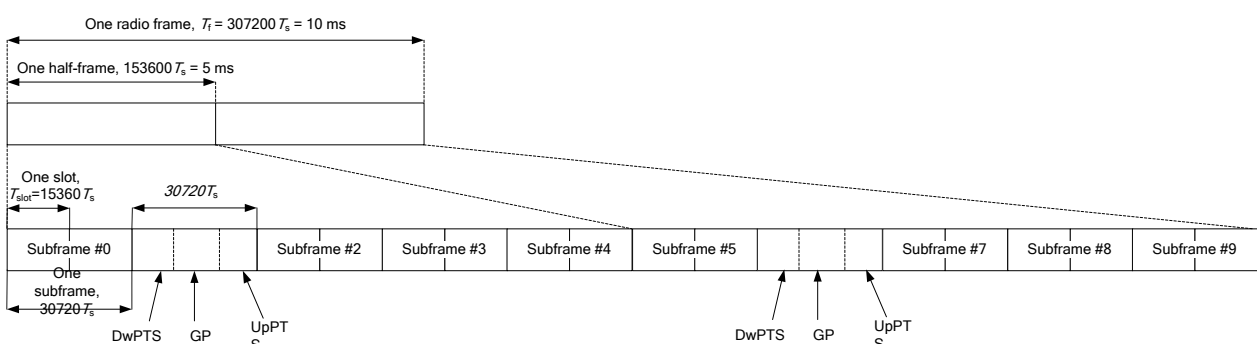
**Note:** MPR is according to the standard and implemented in the circuit (mandatory).

In addition, the device is compliant with additional maximum power reduction (A-MPR) requirements defined in 3GPP TS 36.101 section 6.2.4 that was disabled for all FCC compliance testing.

During LTE SAR testing, the related parameters of operating band, channel bandwidth, uplink channel number, modulation type, and RB was set in base station simulator. When the EUT has registered and communicated to base station simulator, the simulator set to make EUT transmitting the maximum radiated power.

### TDD-LTE Setup Configurations

According to KDB 941225 D05, SAR testing for TDD-LTE device must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP TDD-LTE configurations. The TDD-LTE of this device supports frame structure type 2 defined in 3GPP TS 36.211 section 4.2, and the frame structure configuration can be referred to below.



**3GPP TS 36.211 Frame Structure Type 2**

| Special Subframe Configuration | Normal Cyclic Prefix in Downlink |                                |                                  | Extended Cyclic Prefix in Downlink |                                |                                  |
|--------------------------------|----------------------------------|--------------------------------|----------------------------------|------------------------------------|--------------------------------|----------------------------------|
|                                | DwPTS                            | UpPTS                          |                                  | DwPTS                              | UpPTS                          |                                  |
|                                |                                  | Normal Cyclic Prefix in Uplink | Extended Cyclic Prefix in Uplink |                                    | Normal Cyclic Prefix in Uplink | Extended Cyclic Prefix in Uplink |
| 0                              | 6592 • Ts                        | 2192 • Ts                      | 2560 • Ts                        | 7680 • Ts                          | 2192 • Ts                      | 2560 • Ts                        |
| 1                              | 19760 • Ts                       |                                |                                  | 20480 • Ts                         |                                |                                  |
| 2                              | 21952 • Ts                       |                                |                                  | 23040 • Ts                         |                                |                                  |
| 3                              | 24144 • Ts                       |                                |                                  | 25600 • Ts                         |                                |                                  |
| 4                              | 26336 • Ts                       |                                |                                  | 7680 • Ts                          |                                |                                  |
| 5                              | 6592 • Ts                        | 4384 • Ts                      | 5120 • Ts                        | 20480 • Ts                         | 4384 • Ts                      | 5120 • Ts                        |
| 6                              | 19760 • Ts                       |                                |                                  | 23040 • Ts                         |                                |                                  |
| 7                              | 21952 • Ts                       |                                |                                  | 12800 • Ts                         |                                |                                  |
| 8                              | 24144 • Ts                       |                                |                                  | -                                  |                                |                                  |
| 9                              | 13168 • Ts                       |                                |                                  | -                                  |                                |                                  |

**3GPP TS 36.211 Configuration of Special Subframe**

| Uplink-Downlink Configuration | Downlink-to-Uplink Switch-Point Periodicity | Subframe Number |   |   |   |   |   |   |   |   |   |
|-------------------------------|---------------------------------------------|-----------------|---|---|---|---|---|---|---|---|---|
|                               |                                             | 0               | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 0                             | 5 ms                                        | D               | S | U | U | U | D | S | U | U | U |
| 1                             | 5 ms                                        | D               | S | U | U | D | D | S | U | U | D |
| 2                             | 5 ms                                        | D               | S | U | D | D | D | S | U | D | D |
| 3                             | 10 ms                                       | D               | S | U | U | U | D | D | D | D | D |
| 4                             | 10 ms                                       | D               | S | U | U | D | D | D | D | D | D |
| 5                             | 10 ms                                       | D               | S | U | D | D | D | D | D | D | D |
| 6                             | 5 ms                                        | D               | S | U | U | U | D | S | U | U | D |

**3GPP TS 36.211 Uplink-Downlink Configurations**

The variety of different TD-LTE uplink-downlink configurations allows a network operator to allocate the network's capacity between uplink and downlink traffic to meet the needs of the network. The uplink duty cycle of these seven configurations can readily be computed and shown in below.

| UL-DL Configuration | 0      | 1      | 2      | 3      | 4      | 5      | 6      |
|---------------------|--------|--------|--------|--------|--------|--------|--------|
| Highest Duty-Cycle  | 63.33% | 43.33% | 23.33% | 31.67% | 21.67% | 11.67% | 53.33% |

Considering the highest transmission duty cycle, TDD-LTE was tested using Uplink-Downlink Configuration 0 with 6 uplink subframe and 2 special subframe. The special subframe was set to special subframe configuration 7 using extended cyclic prefix uplink. Therefore, SAR testing for TDD-LTE was performed at the maximum output power with highest transmission duty cycle of 63.33%.

**<Considerations Related to WLAN for Setup and Testing>**

In general, various vendor specific external test software and chipset based internal test modes are typically used for SAR measurement. These chipset based test mode utilities are generally hardware and manufacturer dependent, and often include substantial flexibility to reconfigure or reprogram a device. A Wi-Fi device must be 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 for SAR measurement. The test frequencies established using test mode must correspond to the actual channel frequencies. 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. In addition, a periodic transmission duty factor is required for current generation SAR systems to measure SAR correctly. The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

According to KDB 248227 D01, this device has installed WLAN engineering testing software which can provide continuous transmitting RF signal. During WLAN SAR testing, this device was operated to transmit continuously at the maximum transmission duty with specified transmission mode, operating frequency, lowest data rate, and maximum output power.

#### **Initial Test Configuration**

An initial test configuration is determined for OFDM transmission modes in 2.4 GHz and 5 GHz bands according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band. When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, for each frequency band.

#### **Subsequent Test Configuration**

SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units. Additional power measurements may be required to determine if SAR measurements are required for subsequent highest output power channels in a subsequent test configuration. When the highest reported SAR for the initial test configuration according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is  $\leq 1.2$  W/kg, SAR is not required for that subsequent test configuration.

#### **SAR Test Configuration and Channel Selection**

When multiple channel bandwidth configurations in a frequency band have the same specified maximum output power, the initial test configuration is using largest channel bandwidth, lowest order modulation, lowest data rate, and lowest order 802.11 mode (i.e., 802.11a is chosen over 802.11n then 802.11ac or 802.11g is chosen over 802.11n). After an initial test configuration is determined, if multiple test channels have the same measured maximum output power, the channel chosen for SAR measurement is determined according to the following.

- 1) The channel closest to mid-band frequency is selected for SAR measurement.
- 2) For channels with equal separation from mid-band frequency; for example, high and low channels or two mid-band channels, the higher frequency (number) channel is selected for SAR measurement.

#### **<Considerations Related to Bluetooth for Setup and Testing>**

This device has installed Bluetooth engineering testing software which can provide continuous transmitting RF signal. During Bluetooth SAR testing, this device was operated to transmit continuously at the maximum

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transmission duty with specified transmission mode, operating frequency, lowest data rate, and maximum output power.

## 7.2.EUT Testing Position

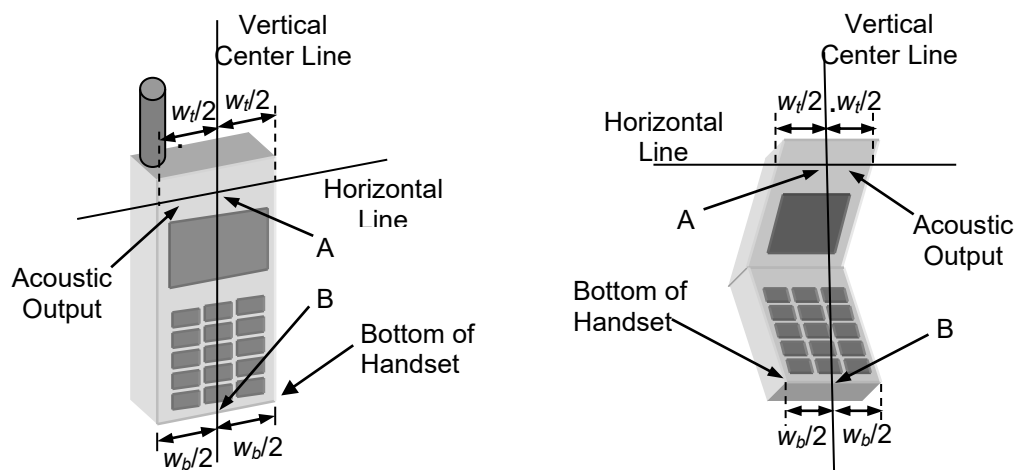
According to KDB 648474 D04, handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

### 7.2.1.Head Exposure Conditions

Head exposure is limited to next to the ear voice mode operations. Head SAR compliance is tested according to the test positions defined in IEEE Std 1528-2003 using the SAM phantom illustrated as below.

1. Define two imaginary lines on the handset

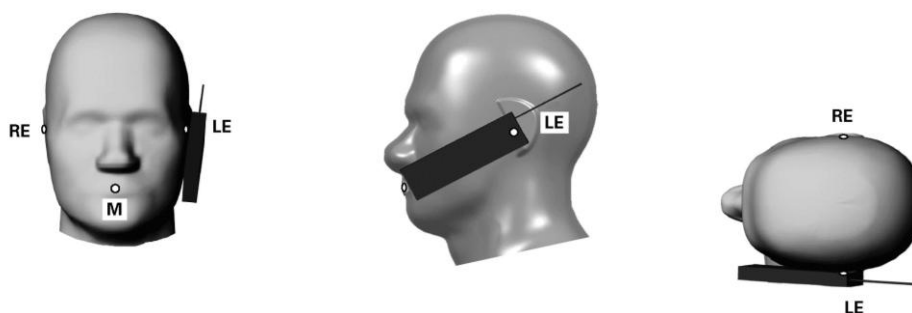
- (a) The vertical centerline passes through two points on the front side of the handset - the midpoint of the width  $w_t$  of the handset at the level of the acoustic output, and the midpoint of the width  $w_b$  of the bottom of the handset.
- (b) The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output. The horizontal line is also tangential to the face of the handset at point A.
- (c) The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily parallel to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.



**Illustration for Handset Vertical and Horizontal Reference Lines**

2. Cheek Position

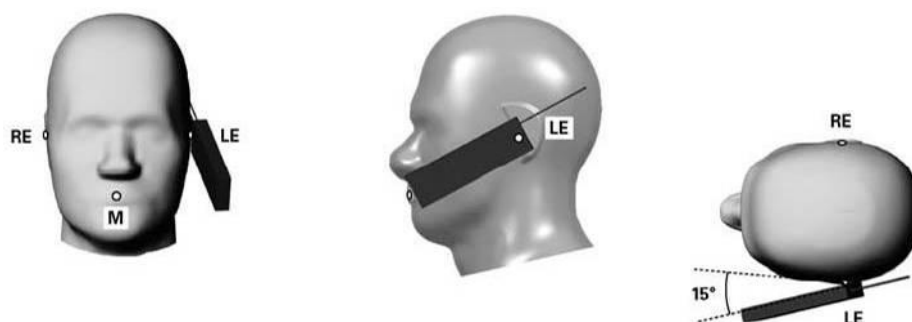
- (a) To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the three ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE.
- (b) To move the device towards the phantom with the ear piece aligned with the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost (see Fig-4.2).



**Illustration for Cheek Position**

### 3. Tilted Position

- (a) To position the device in the "cheek" position described above.
- (b) While maintaining the device the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost (see Fig-4.3).



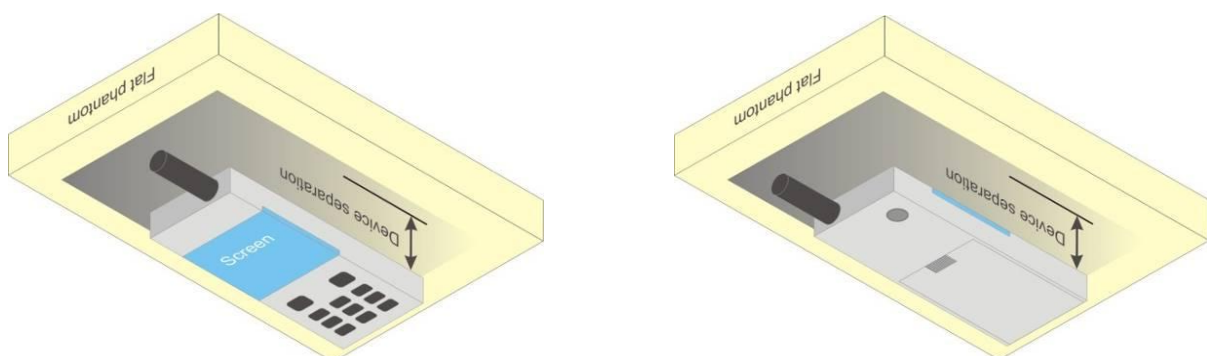
### 7.2.2. Body-worn Accessory Exposure Conditions

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 KDB 447498 D01 are 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 the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is  $> 1.2 \text{ W/kg}$ , 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.

Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics. All body-worn accessories containing metallic components are tested in conjunction with the host device.

Body-worn accessory SAR compliance is based on a single minimum test separation distance for all wireless and operating modes applicable to each body-worn accessory used by the host, and according to the relevant voice and/or data mode transmissions and operations. If a body-worn accessory supports voice only operations in its normal and expected use conditions, testing of data mode for body-worn compliance is not required.

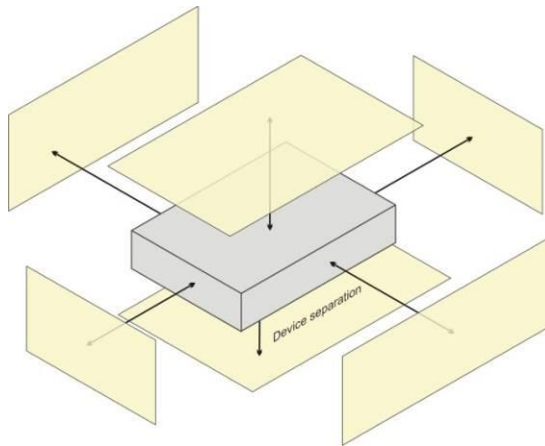
A conservative minimum test separation distance for supporting off-the-shelf body-worn accessories that may be acquired by users of consumer handsets is used to test for body-worn accessory SAR compliance. This distance is determined by the handset manufacturer, according to the requirements of Supplement C 01-01. Devices that are designed to operate on the body of users using lanyards and straps, or without requiring additional body-worn accessories, will be tested using a conservative minimum test separation distance  $\leq 5 \text{ mm}$  to support compliance.



**Illustration for Body Worn Position**

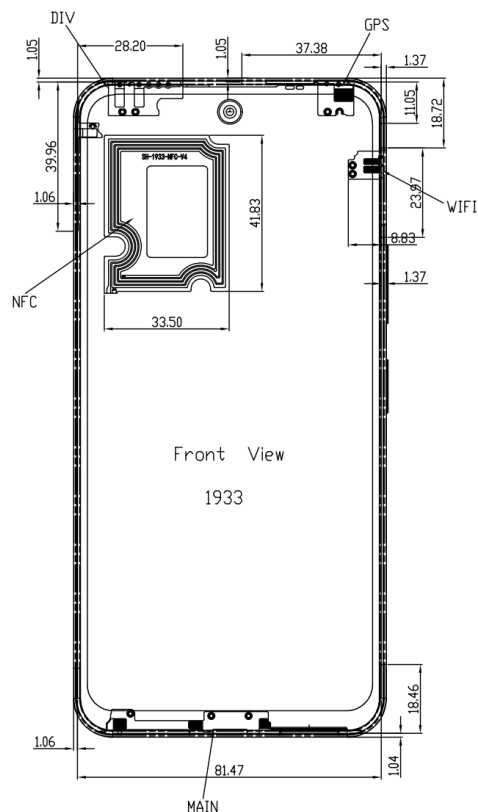
**7.2.3. Hotspot Mode Exposure Conditions**

For handsets that support hotspot mode operations, with wireless router capabilities and various web browsing functions, the relevant hand and body exposure conditions are tested according to the hotspot SAR procedures in KDB 941225 D06. A test separation distance of 10 mm is required between the phantom and all surfaces and edges with a transmitting antenna located within 25 mm from that surface or edge. When the form factor of a handset is smaller than 9 cm x 5 cm, a test separation distance of 5 mm (instead of 10 mm) is required for testing hotspot mode. When the separation distance required for body-worn accessory testing is larger than or equal to that tested for hotspot mode, in the same wireless mode and for the same surface of the phone, the hotspot mode SAR data may be used to support body-worn accessory SAR compliance for that particular configuration (surface).



### 7.3. SAR Test Exclusion Evaluations

The location of the antennas inside EUT is shown as below picture:(The Front View)



Unit: mm

The SAR measurement positions of each antenna are as below:

| Antenna            | Front Face | Rear Face | Left Side | Right Side | Top Side | Bottom Side |
|--------------------|------------|-----------|-----------|------------|----------|-------------|
| Ant (GSM/UMTS/LTE) | Yes        | Yes       | Yes       | Yes        | No       | Yes         |
| Ant (WIFI/BT)      | Yes        | Yes       | No        | Yes        | Yes      | No          |

| Mod e | The highest frequency(M Hz) | Max. Tune-up Power (mW) | Rear Face            |                   |                      | Top Side             |                   |                      | Bottom Side          |                   |                      | Left Side            |                   |                      | Right Side           |                   |                      |
|-------|-----------------------------|-------------------------|----------------------|-------------------|----------------------|----------------------|-------------------|----------------------|----------------------|-------------------|----------------------|----------------------|-------------------|----------------------|----------------------|-------------------|----------------------|
|       |                             |                         | Ant. to Surface (mm) | Calculated Result | Require SAR Testing? | Ant. to Surface (mm) | Calculated Result | Require SAR Testing? | Ant. to Surface (mm) | Calculated Result | Require SAR Testing? | Ant. to Surface (mm) | Calculated Result | Require SAR Testing? | Ant. to Surface (mm) | Calculated Result | Require SAR Testing? |
| NFC   | 13.56                       | 0.0226                  | 5                    | 45                | No                   | 11.05                | 45                | No                   | 124.12               | 45                | No                   | 10.5                 | 45                | No                   | 44                   | 45                | No                   |

**Note:**

- When separation distance  $\leq 50$  mm and the calculated result shown in above table is  $\leq 3.0$  for SAR-1g exposure condition, or  $\leq 7.5$  for SAR-10g exposure condition, the SAR testing exclusion is applied.
- When separation distance  $> 50$  mm and the device output power is less than the calculated result (power threshold, mW) shown in above table, the SAR testing exclusion is applied.

## 7.4. Simultaneous Transmission Possibilities

The simultaneous transmission possibilities for this device are listed as below.

| Simultaneous TX Combination | Capable Transmit Configurations | Head (Voice / VoIP) | Body-worn (Voice / VoIP) | Hotspot (Data) |
|-----------------------------|---------------------------------|---------------------|--------------------------|----------------|
| 1                           | GSM + WLAN+NFC                  | Yes                 | Yes                      | Yes            |
| 2                           | WCDMA + WLAN+NFC                | Yes                 | Yes                      | Yes            |
| 3                           | LTE + WLAN+NFC                  | Yes                 | Yes                      | Yes            |
| 4                           | GSM + BT+NFC                    | Yes                 | Yes                      | Yes            |
| 5                           | WCDMA + BT+NFC                  | Yes                 | Yes                      | Yes            |
| 6                           | LTE + BT +NFC                   | Yes                 | Yes                      | Yes            |

**Note :**

1. The 2.4G WLAN and 5G WLAN cannot transmit simultaneously.
2. The WLAN and Bluetooth cannot transmit simultaneously, so there is no co-location test requirement for WLAN and Bluetooth.

## 7.5. Tissue Verification

The measuring results for tissue simulating liquid are shown as below.

| Tissue Stimulant Measurement for 750MHz  |              |                             |                        |                     |                  |
|------------------------------------------|--------------|-----------------------------|------------------------|---------------------|------------------|
| Head                                     | Fr.<br>(MHz) | Dielectric Parameters (±5%) |                        | Tissue<br>Temp [°C] | Test time        |
|                                          |              | εr 41.9 (39.8-44.00)        | δ[s/m] 0.89(0.85-0.93) |                     |                  |
|                                          | 707.5        | 44.011                      | 0.866                  | 22.9                | Jul. 25, 2026    |
|                                          | 710          | 43.998                      | 0.867                  |                     |                  |
|                                          | 750          | 43.523                      | 0.913                  |                     |                  |
| Tissue Stimulant Measurement for 835MHz  |              |                             |                        |                     |                  |
| Head                                     | Fr.<br>(MHz) | Dielectric Parameters (±5%) |                        | Tissue<br>Temp [°C] | Test time        |
|                                          |              | εr 41.5 (39.4-43.6)         | δ[s/m] 0.90(0.86-0.95) |                     |                  |
|                                          | 829          | 43.405                      | 0.913                  | 22.8                | Jul. 26, 2026    |
|                                          | 835          | 43.377                      | 0.913                  |                     |                  |
|                                          | 836.4        | 43.370                      | 0.918                  |                     |                  |
|                                          | 836.6        | 43.369                      | 0.922                  |                     |                  |
|                                          | 848.6        | 43.313                      | 0.923                  |                     |                  |
| Tissue Stimulant Measurement for 835MHz  |              |                             |                        |                     |                  |
| Head                                     | Fr.<br>(MHz) | Dielectric Parameters (±5%) |                        | Tissue<br>Temp [°C] | Test time        |
|                                          |              | εr 41.5 (39.4-43.6)         | δ[s/m] 0.90(0.86-0.95) |                     |                  |
|                                          | 829          | 43.405                      | 0.915                  | 22.3                | Jul. 29, 2026    |
|                                          | 835          | 43.373                      | 0.918                  |                     |                  |
| Tissue Stimulant Measurement for 1750MHz |              |                             |                        |                     |                  |
| Head                                     | Fr.<br>(MHz) | Dielectric Parameters (±5%) |                        | Tissue<br>Temp [°C] | Test time        |
|                                          |              | εr 40.00 (38.00-42.00)      | δ[s/m]1.40(1.33-1.47)  |                     |                  |
|                                          | 1712.4       | 40.650                      | 1.368                  | 22.3                | Jul. 30, 2026    |
|                                          | 1745         | 40.574                      | 1.386                  |                     |                  |
|                                          | 1750         | 40.463                      | 1.418                  |                     |                  |
|                                          | 1752.6       | 40.457                      | 1.419                  |                     |                  |
|                                          | 1770         | 40.423                      | 1.421                  |                     |                  |
| Tissue Stimulant Measurement for 1750MHz |              |                             |                        |                     |                  |
| Head                                     | Fr.<br>(MHz) | Dielectric Parameters (±5%) |                        | Tissue<br>Temp [°C] | Test time        |
|                                          |              | εr 40.00 (38.00-42.00)      | δ[s/m]1.40(1.33-1.47)  |                     |                  |
|                                          | 1732.5       | 40.676                      | 1.385                  | 22.9                | Aug. 01,<br>2026 |
|                                          | 1745         | 40.574                      | 1.386                  |                     |                  |
|                                          | 1750         | 40.466                      | 1.398                  |                     |                  |
|                                          | 1770         | 40.423                      | 1.401                  |                     |                  |
| Tissue Stimulant Measurement for 1900MHz |              |                             |                        |                     |                  |
| Head                                     | Fr.<br>(MHz) | Dielectric Parameters (±5%) |                        | Tissue<br>Temp [°C] | Test time        |
|                                          |              | εr40.00(38.00-42.00)        | δ[s/m]1.40(1.33-1.47)  |                     |                  |
|                                          | 1850.2       | 40.339                      | 1.423                  | 23.0                | Aug. 02,<br>2026 |
|                                          | 1880         | 40.306                      | 1.445                  |                     |                  |
|                                          | 1900         | 40.271                      | 1.452                  |                     |                  |
|                                          | 1905         | 40.262                      | 1.479                  |                     |                  |

| Tissue Stimulant Measurement for 1900MHz |              |                             |                        |                     |                  |
|------------------------------------------|--------------|-----------------------------|------------------------|---------------------|------------------|
| Head                                     | Fr.<br>(MHz) | Dielectric Parameters (±5%) |                        | Tissue<br>Temp [°C] | Test time        |
|                                          |              | ε40.00(38.00-42.00)         | δ[s/m]1.40(1.33-1.47)  |                     |                  |
|                                          | 1880         | 40.306                      | 1.445                  | 21.8                | Aug. 03,<br>2026 |
|                                          | 1900         | 40.268                      | 1.458                  |                     |                  |
|                                          | 1905         | 40.262                      | 1.479                  |                     |                  |
| Tissue Stimulant Measurement for 2450MHz |              |                             |                        |                     |                  |
| Head                                     | Fr.<br>(MHz) | Dielectric Parameters (±5%) |                        | Tissue<br>Temp [°C] | Test time        |
|                                          |              | ε39.2(37.2-41.2)            | δ[s/m]1.80(1.71-1.89)  |                     |                  |
|                                          | 2402         | 41.221                      | 1.820                  | 22.5                | Aug. 04,<br>2026 |
|                                          | 2422         | 41.172                      | 1.832                  |                     |                  |
|                                          | 2437         | 40.972                      | 1.835                  |                     |                  |
|                                          | 2450         | 40.816                      | 1.839                  |                     |                  |
| Tissue Stimulant Measurement for 5250MHz |              |                             |                        |                     |                  |
| Head                                     | Fr.<br>(MHz) | Dielectric Parameters (±5%) |                        | Tissue<br>Temp [°C] | Test time        |
|                                          |              | ε 35.9 (34.2-37.8)          | δ[s/m] 4.71(4.43-4.89) |                     |                  |
|                                          | 5240         | 35.755                      | 4.486                  | 22.5                | Aug. 04,<br>2026 |
|                                          | 5250         | 35.745                      | 4.575                  |                     |                  |
| Tissue Stimulant Measurement for 5800MHz |              |                             |                        |                     |                  |
| Head                                     | Fr.<br>(MHz) | Dielectric Parameters (±5%) |                        | Tissue<br>Temp [°C] | Test time        |
|                                          |              | ε 35.3 (33.5-37.1)          | δ[s/m] 5.27(5.01-5.53) |                     |                  |
|                                          | 5745         | 34.893                      | 5.126                  | 22.5                | Aug. 04,<br>2026 |
|                                          | 5800         | 34.259                      | 5.189                  |                     |                  |
|                                          | 5825         | 34.193                      | 5.226                  |                     |                  |

**Note:**

The dielectric properties of the tissue simulating liquid must be measured within 24 hours before the SAR testing and within  $\pm 5\%$  of the target values. Liquid temperature during the SAR testing must be within  $\pm 2$  °C.

## 7.6. System Validation

The SAR measurement system was validated according to procedures in KDB 865664 D01. The validation status in tabulated summary is as below.

| Test Date     | Probe S/N | Calibration Point |      | Measured Conductivity ( $\sigma$ ) | Measured Permittivity ( $\epsilon_r$ ) | Validation for CW |                 |                | Validation for Modulation |             |      |
|---------------|-----------|-------------------|------|------------------------------------|----------------------------------------|-------------------|-----------------|----------------|---------------------------|-------------|------|
|               |           |                   |      |                                    |                                        | Sensitivity Range | Probe Linearity | Probe Isotropy | Modulation Type           | Duty Factor | PAR  |
| Jul. 25, 2026 | 7506      | Head              | 750  | 0.913                              | 43.523                                 | Pass              | Pass            | Pass           | N/A                       | N/A         | N/A  |
| Jul. 26, 2026 | 7506      | Head              | 835  | 0.913                              | 43.377                                 | Pass              | Pass            | Pass           | N/A                       | N/A         | N/A  |
| Jul. 29, 2026 | 7506      | Head              | 835  | 0.918                              | 43.373                                 | Pass              | Pass            | Pass           | N/A                       | N/A         | N/A  |
| Jul. 30, 2026 | 7506      | Head              | 1750 | 1.418                              | 40.463                                 | Pass              | Pass            | Pass           | N/A                       | N/A         | N/A  |
| Aug. 01, 2026 | 7506      | Head              | 1750 | 1.398                              | 40.466                                 | Pass              | Pass            | Pass           | GMSK                      | Pass        | N/A  |
| Aug. 02, 2026 | 7506      | Head              | 1900 | 1.452                              | 40.271                                 | Pass              | Pass            | Pass           | GMSK                      | Pass        | N/A  |
| Aug. 03, 2026 | 7506      | Head              | 1900 | 1.458                              | 40.268                                 | Pass              | Pass            | Pass           | OFDM                      | N/A         | Pass |
| Aug. 04, 2026 | 7506      | Head              | 2450 | 1.839                              | 40.816                                 | Pass              | Pass            | Pass           | OFDM                      | N/A         | Pass |
| Aug. 04, 2026 | 7506      | Head              | 5250 | 4.575                              | 35.745                                 | Pass              | Pass            | Pass           | OFDM                      | N/A         | Pass |
| Aug. 04, 2026 | 7506      | Head              | 5800 | 5.189                              | 34.259                                 | Pass              | Pass            | Pass           | OFDM                      | N/A         | Pass |

## 7.7. System Verification

The manufacturer calibrates the probes annually. Dielectric parameters of the tissue simulants were measured every day using the dielectric probe kit and the network analyzer. A system check measurement was made following the determination of the dielectric parameters of the simulant, using the dipole validation kit. A power level of 250 mW (below 2GHz) or 100mW (2-6GHz), which was placed under the flat section of the twin SAM phantom.

The measuring result for system verification is tabulated as below.

| Test Date     | Frequency (MHz) | 1W Target SAR-1g (W/kg) | Measured SAR-1g (W/kg) | Normalized to 1W SAR-1g (W/kg) | Deviation (%) | Dipole S/N | Probe S/N | DAE S/N |
|---------------|-----------------|-------------------------|------------------------|--------------------------------|---------------|------------|-----------|---------|
| Jul. 25, 2026 | 750             | 8.53                    | 2.21                   | 8.84                           | 3.63          | 1109       | 7506      | 1557    |
| Jul. 26, 2026 | 835             | 9.75                    | 2.36                   | 9.44                           | -3.18         | 4d242      | 7506      | 1557    |
| Jul. 29, 2026 | 835             | 9.75                    | 2.33                   | 9.32                           | -4.41         | 4d242      | 7506      | 1557    |
| Jul. 30, 2026 | 1750            | 36.20                   | 9.47                   | 37.88                          | 4.64          | 1166       | 7506      | 1557    |
| Aug. 01, 2026 | 1750            | 36.20                   | 9.26                   | 37.04                          | 2.32          | 1166       | 7506      | 1557    |
| Aug. 02, 2026 | 1900            | 40.10                   | 9.86                   | 39.44                          | -1.65         | 5d229      | 7506      | 1557    |
| Aug. 03, 2026 | 1900            | 40.10                   | 9.98                   | 39.92                          | -0.45         | 5d229      | 7506      | 1557    |
| Aug. 04, 2026 | 2450            | 53.40                   | 5.32                   | 53.20                          | -0.37         | 1014       | 7506      | 1557    |
| Aug. 04, 2026 | 5250            | 79.30                   | 7.99                   | 79.90                          | 0.76          | 1280       | 7506      | 1557    |
| Aug. 04, 2026 | 5800            | 80.70                   | 7.82                   | 78.20                          | -3.10         | 1280       | 7506      | 1557    |

### Note:

Comparing to the reference SAR value provided by SPEAG, the validation data should be within its specification of 10 %. The result indicates the system check can meet the variation criterion and the plots can be referred to Appendix A of this report.

## 8. SAR Measurement Evaluation

### 8.1. Maximum Conducted Power

The maximum conducted average power (Unit: dBm) including tune-up tolerance is shown as below.

| Mode                  | GSM850 | GSM1900 |
|-----------------------|--------|---------|
| GSM (CS)              | 33.50  | 29.50   |
| GPRS (GMSK, 1Tx-slot) | 33.50  | 29.50   |
| GPRS (GMSK, 2Tx-slot) | 31.00  | 26.50   |
| GPRS (GMSK, 3Tx-slot) | 29.00  | 24.50   |
| GPRS (GMSK, 4Tx-slot) | 27.00  | 23.00   |
| EDGE (8PSK, 1Tx-slot) | 25.00  | 26.00   |
| EDGE (8PSK, 2Tx-slot) | 24.00  | 25.00   |
| EDGE (8PSK, 3Tx-slot) | 22.00  | 22.00   |
| EDGE (8PSK, 4Tx-slot) | 19.00  | 20.00   |

| Mode            | WCDMA Band II | WCDMA Band IV | WCDMA Band V |
|-----------------|---------------|---------------|--------------|
| RMC 12.2K       | 22.50         | 23.00         | 23.00        |
| HSDPA Subtest-1 | 22.00         | 22.50         | 23.00        |
| HSDPA Subtest-2 | 22.00         | 22.50         | 23.00        |
| HSDPA Subtest-3 | 22.00         | 22.50         | 22.00        |
| HSDPA Subtest-4 | 22.00         | 22.50         | 22.00        |
| HSUPA Subtest-1 | 22.50         | 23.00         | 23.00        |
| HSUPA Subtest-2 | 22.50         | 23.00         | 23.00        |
| HSUPA Subtest-3 | 22.50         | 23.00         | 23.00        |
| HSUPA Subtest-4 | 22.50         | 23.00         | 23.00        |

| Mode         | LTE 2 | LTE 4 | LTE 5 | LTE 12 |
|--------------|-------|-------|-------|--------|
| QPSK / 16QAM | 23.00 | 24.00 | 24.00 | 23.00  |

| Mode         | LTE 25 | LTE 66 |
|--------------|--------|--------|
| QPSK / 16QAM | 24.50  | 23.50  |

| Mode           | 2.4G WLAN | 5.2G WLAN | 5.8G WLAN |
|----------------|-----------|-----------|-----------|
| 802.11b        | 15.50     | N/A       | N/A       |
| 802.11g        | 16.50     | N/A       | N/A       |
| 802.11a        | N/A       | 11.50     | 9.50      |
| 802.11n HT20   | 16.00     | 11.50     | 9.50      |
| 802.11n HT40   | 16.50     | 9.50      | 9.00      |
| 802.11ac VHT20 | N/A       | 11.50     | 9.00      |
| 802.11ac VHT40 | N/A       | 9.50      | 9.00      |
| 802.11ac VHT80 | N/A       | 11.50     | 9.50      |
| 802.11ax HE20  | 17.00     | 8.00      | 9.50      |
| 802.11ax HE40  | 18.50     | 8.00      | 9.00      |
| 802.11ax HE80  | N/A       | 8.00      | 9.50      |

| Mode           | 2.4G Bluetooth |
|----------------|----------------|
| GFSK           | 1.00           |
| $\pi/4$ -DQPSK | 1.00           |
| 8DPSK          | 1.00           |
| LE (1M)        | 1.50           |
| LE (2M)        | 1.50           |

## 8.2. Measured Conducted Power Result

| Band                                | GSM850 |       |       | GSM1900 |        |        |
|-------------------------------------|--------|-------|-------|---------|--------|--------|
| Channel                             | 128    | 189   | 251   | 512     | 661    | 810    |
| Frequency (MHz)                     | 824.2  | 836.4 | 848.8 | 1850.2  | 1880.0 | 1909.8 |
| Maximum Burst-Averaged Output Power |        |       |       |         |        |        |
| GSM (CS)                            | 32.78  | 32.85 | 33.03 | 29.07   | 28.82  | 28.87  |
| GPRS (GMSK, 1Tx-slot)               | 32.78  | 32.85 | 33.03 | 29.07   | 28.82  | 28.87  |
| GPRS (GMSK, 2Tx-slot)               | 30.46  | 30.39 | 30.75 | 26.32   | 25.78  | 25.31  |
| GPRS (GMSK, 3Tx-slot)               | 28.56  | 28.40 | 28.38 | 24.46   | 24.09  | 23.68  |
| GPRS (GMSK, 4Tx-slot)               | 26.32  | 26.07 | 26.02 | 22.86   | 21.94  | 21.80  |
| EDGE (8PSK, 1Tx-slot)               | 24.76  | 24.72 | 24.84 | 25.73   | 24.98  | 24.69  |
| EDGE (8PSK, 2Tx-slot)               | 23.45  | 23.60 | 23.98 | 24.10   | 23.36  | 23.60  |
| EDGE (8PSK, 3Tx-slot)               | 21.12  | 21.03 | 21.14 | 21.66   | 21.03  | 21.14  |
| EDGE (8PSK, 4Tx-slot)               | 18.09  | 18.59 | 18.88 | 19.56   | 18.81  | 19.40  |
| Maximum Frame-Averaged Output Power |        |       |       |         |        |        |
| GSM (CS)                            | 23.59  | 23.66 | 23.84 | 19.88   | 19.63  | 19.68  |
| GPRS (GMSK, 1Tx-slot)               | 23.59  | 23.66 | 23.84 | 19.88   | 19.63  | 19.68  |
| GPRS (GMSK, 2Tx-slot)               | 24.33  | 24.26 | 24.62 | 20.19   | 19.65  | 19.18  |
| GPRS (GMSK, 3Tx-slot)               | 24.14  | 23.98 | 23.96 | 20.04   | 19.67  | 19.26  |
| GPRS (GMSK, 4Tx-slot)               | 23.14  | 22.89 | 22.84 | 19.68   | 18.76  | 18.62  |
| EDGE (8PSK, 1Tx-slot)               | 15.57  | 15.53 | 15.65 | 16.54   | 15.79  | 15.50  |
| EDGE (8PSK, 2Tx-slot)               | 17.32  | 17.47 | 17.85 | 17.97   | 17.23  | 17.47  |
| EDGE (8PSK, 3Tx-slot)               | 16.70  | 16.61 | 16.72 | 17.24   | 16.61  | 16.72  |
| EDGE (8PSK, 4Tx-slot)               | 14.91  | 15.41 | 15.70 | 16.38   | 15.63  | 16.22  |

**Note:**

- SAR testing was performed on the maximum frame-averaged power mode.
- The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots. The calculated method is shown as below:  
Frame-averaged power = 10 x log (Burst-averaged power mW x Slot used / 8)
- The configuration of time-slot for GSM has transmitting signal in one time-slot during one frame (8 time-slots).

| Band            | WCDMA Band II |        |        | WCDMA Band IV |        |        | WCDMA Band V |       |       | 3GPP MPR (dB) |
|-----------------|---------------|--------|--------|---------------|--------|--------|--------------|-------|-------|---------------|
| Channel         | 9262          | 9400   | 9538   | 1312          | 1413   | 1513   | 4132         | 4182  | 4233  |               |
| Frequency (MHz) | 1852.4        | 1880.0 | 1907.6 | 1712.4        | 1732.6 | 1752.6 | 826.4        | 836.4 | 846.6 |               |
| RMC 12.2K       | 22.26         | 22.41  | 22.19  | 22.66         | 22.64  | 22.60  | 22.43        | 22.81 | 22.58 | -             |
| HSDPA Subtest-1 | 21.53         | 21.32  | 21.46  | 22.36         | 22.47  | 22.49  | 22.53        | 22.81 | 22.58 | 0             |
| HSDPA Subtest-2 | 21.41         | 21.16  | 21.12  | 22.08         | 22.22  | 22.02  | 22.34        | 22.64 | 22.34 | 0             |
| HSDPA Subtest-3 | 21.42         | 21.21  | 21.21  | 21.86         | 22.04  | 21.68  | 20.93        | 21.14 | 20.81 | 0.5           |
| HSDPA Subtest-4 | 21.40         | 21.19  | 21.14  | 21.83         | 22.02  | 21.72  | 20.88        | 21.10 | 20.83 | 0.5           |
| HSUPA Subtest-1 | 22.25         | 22.08  | 21.98  | 22.25         | 22.35  | 22.24  | 22.47        | 22.72 | 22.51 | 0             |
| HSUPA Subtest-2 | 22.28         | 22.05  | 22.10  | 22.24         | 22.46  | 22.18  | 22.50        | 22.72 | 22.44 | 2             |
| HSUPA Subtest-3 | 22.36         | 22.28  | 21.97  | 22.34         | 22.48  | 22.16  | 22.55        | 22.45 | 22.45 | 1             |
| HSUPA Subtest-4 | 22.21         | 22.15  | 22.06  | 22.28         | 22.47  | 22.22  | 22.55        | 22.79 | 22.50 | 2             |
| HSUPA Subtest-5 | 22.37         | 22.22  | 22.07  | 22.35         | 22.50  | 22.21  | 22.57        | 22.71 | 22.55 | 0             |

| LTE<br>Band / BW | RB<br>Size | RB<br>Offset | QPSK            |                 |                  | 3GPP<br>MPR<br>(dB) | 16QAM           |                 |                  | 3GPP<br>MPR<br>(dB) |
|------------------|------------|--------------|-----------------|-----------------|------------------|---------------------|-----------------|-----------------|------------------|---------------------|
|                  |            |              | Low CH<br>18607 | Mid CH<br>18900 | High CH<br>19193 |                     | Low CH<br>18607 | Mid CH<br>18900 | High CH<br>19193 |                     |
|                  |            |              | 1850.7<br>MHz   | 1880.0<br>MHz   | 1909.3<br>MHz    |                     | 1850.7<br>MHz   | 1880.0<br>MHz   | 1909.3<br>MHz    |                     |
| 2 / 1.4M         | 1          | 0            | 22.64           | 22.47           | 22.50            | 0                   | 21.60           | 21.70           | 20.92            | 1                   |
|                  | 1          | 2            | 22.70           | 22.53           | 22.47            | 0                   | 21.70           | 21.83           | 20.92            | 1                   |
|                  | 1          | 5            | 22.56           | 22.35           | 22.32            | 0                   | 21.68           | 21.77           | 20.93            | 1                   |
|                  | 3          | 0            | 22.78           | 22.66           | 22.41            | 0                   | 21.68           | 21.83           | 21.62            | 1                   |
|                  | 3          | 1            | 22.77           | 22.66           | 22.51            | 0                   | 21.68           | 21.83           | 21.62            | 1                   |
|                  | 3          | 3            | 22.75           | 22.65           | 22.50            | 0                   | 21.68           | 21.83           | 21.62            | 1                   |
|                  | 6          | 0            | 21.72           | 21.62           | 21.44            | 1                   | 20.52           | 20.74           | 20.82            | 2                   |

| LTE<br>Band / BW | RB<br>Size | RB<br>Offset | QPSK            |                 |                  | 3GPP<br>MPR<br>(dB) | 16QAM           |                 |                  | 3GPP<br>MPR<br>(dB) |
|------------------|------------|--------------|-----------------|-----------------|------------------|---------------------|-----------------|-----------------|------------------|---------------------|
|                  |            |              | Low CH<br>18615 | Mid CH<br>18900 | High CH<br>19185 |                     | Low CH<br>18615 | Mid CH<br>18900 | High CH<br>19185 |                     |
|                  |            |              | 1851.5<br>MHz   | 1880.0<br>MHz   | 1908.5<br>MHz    |                     | 1851.5<br>MHz   | 1880.0<br>MHz   | 1908.5<br>MHz    |                     |
| 2 / 3M           | 1          | 0            | 22.70           | 22.48           | 22.45            | 0                   | 21.85           | 21.00           | 21.51            | 1                   |
|                  | 1          | 7            | 22.61           | 22.51           | 22.50            | 0                   | 21.90           | 20.97           | 21.59            | 1                   |
|                  | 1          | 14           | 22.60           | 22.43           | 22.44            | 0                   | 21.90           | 20.92           | 21.48            | 1                   |
|                  | 8          | 0            | 21.71           | 21.58           | 21.37            | 1                   | 20.93           | 20.83           | 20.43            | 2                   |
|                  | 8          | 3            | 21.71           | 21.59           | 21.50            | 1                   | 20.66           | 20.84           | 20.56            | 2                   |
|                  | 8          | 7            | 21.85           | 21.66           | 21.48            | 1                   | 20.92           | 20.91           | 20.73            | 2                   |
|                  | 15         | 0            | 21.67           | 21.62           | 21.44            | 1                   | 20.88           | 20.61           | 20.44            | 2                   |

| LTE<br>Band / BW | RB<br>Size | RB<br>Offset | QPSK            |                 |                  | 3GPP<br>MPR<br>(dB) | 16QAM           |                 |                  | 3GPP<br>MPR<br>(dB) |
|------------------|------------|--------------|-----------------|-----------------|------------------|---------------------|-----------------|-----------------|------------------|---------------------|
|                  |            |              | Low CH<br>18625 | Mid CH<br>18900 | High CH<br>19175 |                     | Low CH<br>18625 | Mid CH<br>18900 | High CH<br>19175 |                     |
|                  |            |              | 1852.5<br>MHz   | 1880.0<br>MHz   | 1907.5<br>MHz    |                     | 1852.5<br>MHz   | 1880.0<br>MHz   | 1907.5<br>MHz    |                     |
| 2 / 5M           | 1          | 0            | 22.79           | 22.72           | 22.39            | 0                   | 22.24           | 21.54           | 21.10            | 1                   |
|                  | 1          | 12           | 22.94           | 22.44           | 22.38            | 0                   | 22.29           | 21.49           | 21.06            | 1                   |
|                  | 1          | 24           | 22.88           | 22.38           | 22.22            | 0                   | 22.21           | 21.53           | 21.00            | 1                   |
|                  | 12         | 0            | 21.78           | 21.66           | 21.47            | 1                   | 21.16           | 20.77           | 19.98            | 2                   |
|                  | 12         | 6            | 21.78           | 21.55           | 21.48            | 1                   | 20.90           | 20.53           | 19.98            | 2                   |
|                  | 12         | 13           | 21.78           | 21.55           | 21.48            | 1                   | 20.90           | 20.53           | 19.99            | 2                   |
|                  | 25         | 0            | 21.78           | 21.62           | 21.49            | 1                   | 21.06           | 20.74           | 20.18            | 2                   |

| LTE<br>Band / BW | RB<br>Size | RB<br>Offset | QPSK            |                 |                  | 3GPP<br>MPR<br>(dB) | 16QAM           |                 |                  | 3GPP<br>MPR<br>(dB) |
|------------------|------------|--------------|-----------------|-----------------|------------------|---------------------|-----------------|-----------------|------------------|---------------------|
|                  |            |              | Low CH<br>18650 | Mid CH<br>18900 | High CH<br>19150 |                     | Low CH<br>18650 | Mid CH<br>18900 | High CH<br>19150 |                     |
|                  |            |              | 1855.0<br>MHz   | 1880.0<br>MHz   | 1905.0<br>MHz    |                     | 1855.0<br>MHz   | 1880.0<br>MHz   | 1905.0<br>MHz    |                     |
| 2 / 10M          | 1          | 0            | 23.04           | 22.60           | 22.11            | 0                   | 22.09           | 21.18           | 21.47            | 1                   |
|                  | 1          | 24           | 23.17           | 22.46           | 22.16            | 0                   | 22.27           | 20.93           | 21.38            | 1                   |
|                  | 1          | 49           | 22.89           | 22.25           | 22.26            | 0                   | 22.35           | 20.88           | 21.36            | 1                   |
|                  | 25         | 0            | 22.03           | 21.71           | 21.25            | 1                   | 21.20           | 20.90           | 19.90            | 2                   |
|                  | 25         | 12           | 22.11           | 21.70           | 21.09            | 1                   | 21.02           | 20.90           | 20.06            | 2                   |
|                  | 25         | 25           | 22.11           | 21.70           | 21.09            | 1                   | 21.18           | 20.77           | 20.07            | 2                   |
|                  | 50         | 0            | 22.07           | 21.57           | 21.19            | 1                   | 21.03           | 20.74           | 20.12            | 2                   |

| LTE<br>Band / BW | RB<br>Size | RB<br>Offset | QPSK            |                 |                  | 3GPP<br>MPR<br>(dB) | 16QAM           |                 |                  | 3GPP<br>MPR<br>(dB) |
|------------------|------------|--------------|-----------------|-----------------|------------------|---------------------|-----------------|-----------------|------------------|---------------------|
|                  |            |              | Low CH<br>18675 | Mid CH<br>18900 | High CH<br>19125 |                     | Low CH<br>18675 | Mid CH<br>18900 | High CH<br>19125 |                     |
|                  |            |              | 1857.5<br>MHz   | 1880.0<br>MHz   | 1902.5<br>MHz    |                     | 1857.5<br>MHz   | 1880.0<br>MHz   | 1902.5<br>MHz    |                     |
| 2 / 15M          | 1          | 0            | 23.01           | 22.76           | 22.13            | 0                   | 22.18           | 21.77           | 21.55            | 1                   |
|                  | 1          | 37           | 23.02           | 22.53           | 22.12            | 0                   | 22.33           | 21.55           | 21.33            | 1                   |
|                  | 1          | 74           | 23.00           | 22.19           | 22.15            | 0                   | 22.14           | 21.12           | 21.41            | 1                   |
|                  | 36         | 0            | 21.99           | 21.82           | 21.05            | 1                   | 21.03           | 20.84           | 20.01            | 2                   |
|                  | 36         | 19           | 21.98           | 21.81           | 21.16            | 1                   | 21.25           | 20.83           | 20.13            | 2                   |
|                  | 36         | 39           | 21.98           | 21.70           | 21.17            | 1                   | 21.03           | 20.83           | 20.14            | 2                   |
|                  | 75         | 0            | 22.02           | 21.59           | 21.13            | 1                   | 21.04           | 20.76           | 19.97            | 2                   |

| LTE<br>Band / BW | RB<br>Size | RB<br>Offset | QPSK            |                 |                  | 3GPP<br>MPR<br>(dB) | 16QAM           |                 |                  | 3GPP<br>MPR<br>(dB) |
|------------------|------------|--------------|-----------------|-----------------|------------------|---------------------|-----------------|-----------------|------------------|---------------------|
|                  |            |              | Low CH<br>18700 | Mid CH<br>18900 | High CH<br>19100 |                     | Low CH<br>18700 | Mid CH<br>18900 | High CH<br>19100 |                     |
|                  |            |              | 1860.0<br>MHz   | 1880.0<br>MHz   | 1900.0<br>MHz    |                     | 1860.0<br>MHz   | 1880.0<br>MHz   | 1900.0<br>MHz    |                     |
| 2 / 20M          | 1          | 0            | 22.66           | 22.81           | 22.89            | 0                   | 21.85           | 21.74           | 21.67            | 1                   |
|                  | 1          | 50           | 22.64           | 22.66           | 22.60            | 0                   | 21.97           | 21.82           | 21.66            | 1                   |
|                  | 1          | 99           | 22.79           | <b>22.95</b>    | 22.54            | 0                   | 21.50           | 21.79           | 21.79            | 1                   |
|                  | 50         | 0            | 21.78           | 21.53           | 21.66            | 1                   | 20.55           | 20.83           | 20.57            | 2                   |
|                  | 50         | 25           | 21.68           | 21.82           | 21.48            | 1                   | 20.94           | 20.83           | 20.71            | 2                   |
|                  | 50         | 50           | 21.68           | <b>21.83</b>    | 21.46            | 1                   | 20.95           | 20.83           | 20.58            | 2                   |
|                  | 100        | 0            | 21.86           | 21.61           | 21.46            | 1                   | 20.84           | 20.82           | 20.43            | 2                   |

| LTE<br>Band / BW | RB<br>Size | RB<br>Offset | QPSK            |                 |                  | 3GPP<br>MPR<br>(dB) | 16QAM           |                 |                  | 3GPP<br>MPR<br>(dB) |
|------------------|------------|--------------|-----------------|-----------------|------------------|---------------------|-----------------|-----------------|------------------|---------------------|
|                  |            |              | Low CH<br>19957 | Mid CH<br>20175 | High CH<br>20393 |                     | Low CH<br>19957 | Mid CH<br>20175 | High CH<br>20393 |                     |
|                  |            |              | 1710.7<br>MHz   | 1732.5<br>MHz   | 1754.3<br>MHz    |                     | 1710.7<br>MHz   | 1732.5<br>MHz   | 1754.3<br>MHz    |                     |
| 4 / 1.4M         | 1          | 0            | 23.13           | 23.19           | 23.27            | 0                   | 22.85           | 21.44           | 22.12            | 1                   |
|                  | 1          | 2            | 23.10           | 23.24           | 23.29            | 0                   | 22.84           | 21.56           | 22.29            | 1                   |
|                  | 1          | 5            | 23.14           | 23.20           | 23.34            | 0                   | 22.90           | 21.51           | 22.24            | 1                   |
|                  | 3          | 0            | 23.31           | 23.14           | 23.28            | 0                   | 22.11           | 22.09           | 21.89            | 1                   |
|                  | 3          | 1            | 23.30           | 23.13           | 23.28            | 0                   | 22.11           | 22.09           | 21.90            | 1                   |
|                  | 3          | 3            | 23.29           | 23.13           | 23.28            | 0                   | 22.11           | 22.09           | 21.77            | 1                   |
|                  | 6          | 0            | 22.19           | 22.21           | 22.14            | 1                   | 21.32           | 21.41           | 21.25            | 2                   |

| LTE<br>Band / BW | RB<br>Size | RB<br>Offset | QPSK            |                 |                  | 3GPP<br>MPR<br>(dB) | 16QAM           |                 |                  | 3GPP<br>MPR<br>(dB) |
|------------------|------------|--------------|-----------------|-----------------|------------------|---------------------|-----------------|-----------------|------------------|---------------------|
|                  |            |              | Low CH<br>19965 | Mid CH<br>20175 | High CH<br>20385 |                     | Low CH<br>19965 | Mid CH<br>20175 | High CH<br>20385 |                     |
|                  |            |              | 1711.5<br>MHz   | 1732.5<br>MHz   | 1753.5<br>MHz    |                     | 1711.5<br>MHz   | 1732.5<br>MHz   | 1753.5<br>MHz    |                     |
| 4 / 3M           | 1          | 0            | 23.12           | 23.17           | 23.24            | 0                   | 22.84           | 21.32           | 22.21            | 1                   |
|                  | 1          | 7            | 23.17           | 23.18           | 23.37            | 0                   | 22.80           | 21.35           | 22.28            | 1                   |
|                  | 1          | 14           | 23.16           | 23.31           | 23.25            | 0                   | 22.81           | 21.42           | 22.23            | 1                   |
|                  | 8          | 0            | 22.23           | 22.20           | 22.14            | 1                   | 21.29           | 21.47           | 21.33            | 2                   |
|                  | 8          | 3            | 22.23           | 22.21           | 22.15            | 1                   | 21.30           | 21.48           | 21.33            | 2                   |
|                  | 8          | 7            | 22.14           | 22.24           | 22.17            | 1                   | 21.20           | 21.49           | 21.38            | 2                   |
|                  | 15         | 0            | 22.25           | 22.24           | 22.19            | 1                   | 21.36           | 21.14           | 21.32            | 2                   |

| LTE<br>Band / BW | RB<br>Size | RB<br>Offset | QPSK            |                 |                  | 3GPP<br>MPR<br>(dB) | 16QAM           |                 |                  | 3GPP<br>MPR<br>(dB) |
|------------------|------------|--------------|-----------------|-----------------|------------------|---------------------|-----------------|-----------------|------------------|---------------------|
|                  |            |              | Low CH<br>19975 | Mid CH<br>20175 | High CH<br>20375 |                     | Low CH<br>19975 | Mid CH<br>20175 | High CH<br>20375 |                     |
|                  |            |              | 1712.5<br>MHz   | 1732.5<br>MHz   | 1752.5<br>MHz    |                     | 1712.5<br>MHz   | 1732.5<br>MHz   | 1752.5<br>MHz    |                     |
| 4 / 5M           | 1          | 0            | 23.37           | 23.06           | 23.03            | 0                   | 22.46           | 22.19           | 21.37            | 1                   |
|                  | 1          | 12           | 23.33           | 22.99           | 23.23            | 0                   | 22.48           | 22.24           | 21.23            | 1                   |
|                  | 1          | 24           | 23.48           | 23.05           | 23.09            | 0                   | 22.18           | 22.17           | 21.39            | 1                   |
|                  | 12         | 0            | 22.15           | 22.27           | 22.26            | 1                   | 21.21           | 21.39           | 21.30            | 2                   |
|                  | 12         | 6            | 22.16           | 22.26           | 22.27            | 1                   | 21.21           | 21.23           | 21.30            | 2                   |
|                  | 12         | 13           | 22.24           | 22.27           | 22.27            | 1                   | 21.21           | 21.13           | 21.31            | 2                   |
|                  | 25         | 0            | 22.19           | 22.17           | 22.35            | 1                   | 21.11           | 21.28           | 21.38            | 2                   |

| LTE<br>Band / BW | RB<br>Size | RB<br>Offset | QPSK            |                 |                  | 3GPP<br>MPR<br>(dB) | 16QAM           |                 |                  | 3GPP<br>MPR<br>(dB) |
|------------------|------------|--------------|-----------------|-----------------|------------------|---------------------|-----------------|-----------------|------------------|---------------------|
|                  |            |              | Low CH<br>20000 | Mid CH<br>20175 | High CH<br>20350 |                     | Low CH<br>20000 | Mid CH<br>20175 | High CH<br>20350 |                     |
|                  |            |              | 1715.0<br>MHz   | 1732.5<br>MHz   | 1750.0<br>MHz    |                     | 1715.0<br>MHz   | 1732.5<br>MHz   | 1750.0<br>MHz    |                     |
| 4 / 10M          | 1          | 0            | 23.15           | 23.12           | 23.18            | 0                   | 22.18           | 21.75           | 22.51            | 1                   |
|                  | 1          | 24           | 23.22           | 23.05           | 23.18            | 0                   | 22.50           | 21.73           | 22.52            | 1                   |
|                  | 1          | 49           | 23.31           | 23.15           | 23.26            | 0                   | 22.54           | 21.68           | 22.52            | 1                   |
|                  | 25         | 0            | 22.21           | 22.37           | 22.21            | 1                   | 21.37           | 21.46           | 21.29            | 2                   |
|                  | 25         | 12           | 22.21           | 22.28           | 22.23            | 1                   | 21.37           | 21.47           | 21.31            | 2                   |
|                  | 25         | 25           | 22.20           | 22.28           | 22.23            | 1                   | 21.22           | 21.47           | 21.31            | 2                   |
|                  | 50         | 0            | 22.28           | 22.20           | 22.31            | 1                   | 21.26           | 21.25           | 21.23            | 2                   |

| LTE<br>Band / BW | RB<br>Size | RB<br>Offset | QPSK            |                 |                  | 3GPP<br>MPR<br>(dB) | 16QAM           |                 |                  | 3GPP<br>MPR<br>(dB) |
|------------------|------------|--------------|-----------------|-----------------|------------------|---------------------|-----------------|-----------------|------------------|---------------------|
|                  |            |              | Low CH<br>20025 | Mid CH<br>20175 | High CH<br>20325 |                     | Low CH<br>20025 | Mid CH<br>20175 | High CH<br>20325 |                     |
|                  |            |              | 1717.5<br>MHz   | 1732.5<br>MHz   | 1747.5<br>MHz    |                     | 1717.5<br>MHz   | 1732.5<br>MHz   | 1747.5<br>MHz    |                     |
| 4 / 15M          | 1          | 0            | 23.10           | 23.04           | 23.24            | 0                   | 22.25           | 21.92           | 22.30            | 1                   |
|                  | 1          | 37           | 23.25           | 23.03           | 23.30            | 0                   | 22.45           | 21.94           | 22.39            | 1                   |
|                  | 1          | 74           | 23.22           | 23.03           | 23.28            | 0                   | 22.32           | 22.01           | 22.41            | 1                   |
|                  | 36         | 0            | 22.32           | 22.17           | 22.35            | 1                   | 21.31           | 21.29           | 21.41            | 2                   |
|                  | 36         | 19           | 22.18           | 22.30           | 22.36            | 1                   | 21.32           | 21.29           | 21.42            | 2                   |
|                  | 36         | 39           | 22.18           | 22.30           | 22.36            | 1                   | 21.32           | 21.30           | 21.43            | 2                   |
|                  | 75         | 0            | 22.17           | 22.26           | 22.37            | 1                   | 21.35           | 21.20           | 21.44            | 2                   |

| LTE<br>Band / BW | RB<br>Size | RB<br>Offset | QPSK            |                 |                  | 3GPP<br>MPR<br>(dB) | 16QAM           |                 |                  | 3GPP<br>MPR<br>(dB) |
|------------------|------------|--------------|-----------------|-----------------|------------------|---------------------|-----------------|-----------------|------------------|---------------------|
|                  |            |              | Low CH<br>20050 | Mid CH<br>20175 | High CH<br>20300 |                     | Low CH<br>20050 | Mid CH<br>20175 | High CH<br>20300 |                     |
|                  |            |              | 1720.0<br>MHz   | 1732.5<br>MHz   | 1745.0<br>MHz    |                     | 1720.0<br>MHz   | 1732.5<br>MHz   | 1745.0<br>MHz    |                     |
| 4 / 20M          | 1          | 0            | 23.09           | 23.25           | 23.48            | 0                   | 22.31           | 22.87           | 22.08            | 1                   |
|                  | 1          | 50           | 23.08           | 23.27           | 23.57            | 0                   | 22.41           | 22.92           | 22.04            | 1                   |
|                  | 1          | 99           | 23.40           | 23.29           | 23.60            | 0                   | 22.51           | 22.98           | 21.96            | 1                   |
|                  | 50         | 0            | 22.06           | 22.34           | 22.35            | 1                   | 21.33           | 21.26           | 21.38            | 2                   |
|                  | 50         | 25           | 22.15           | 22.19           | 22.35            | 1                   | 21.48           | 21.26           | 21.38            | 2                   |
|                  | 50         | 50           | 22.29           | 22.19           | 22.39            | 1                   | 21.48           | 21.27           | 21.39            | 2                   |
|                  | 100        | 0            | 22.20           | 22.21           | 22.38            | 1                   | 21.18           | 21.24           | 21.43            | 2                   |

| LTE<br>Band / BW | RB<br>Size | RB<br>Offset | QPSK            |                 |                  | 3GPP<br>MPR<br>(dB) | 16QAM           |                 |                  | 3GPP<br>MPR<br>(dB) |
|------------------|------------|--------------|-----------------|-----------------|------------------|---------------------|-----------------|-----------------|------------------|---------------------|
|                  |            |              | Low CH<br>20407 | Mid CH<br>20525 | High CH<br>20643 |                     | Low CH<br>20407 | Mid CH<br>20525 | High CH<br>20643 |                     |
|                  |            |              | 824.7<br>MHz    | 836.5<br>MHz    | 848.3<br>MHz     |                     | 824.7<br>MHz    | 836.5<br>MHz    | 848.3<br>MHz     |                     |
| 5 / 1.4M         | 1          | 0            | 23.42           | 23.49           | 23.39            | 0                   | 22.54           | 21.17           | 21.85            | 1                   |
|                  | 1          | 2            | 23.25           | 23.72           | 23.63            | 0                   | 22.72           | 21.30           | 21.75            | 1                   |
|                  | 1          | 5            | 23.37           | 23.39           | 23.55            | 0                   | 22.51           | 21.13           | 21.84            | 1                   |
|                  | 3          | 0            | 23.63           | 23.68           | 23.67            | 0                   | 22.36           | 22.45           | 22.27            | 1                   |
|                  | 3          | 1            | 23.62           | 23.61           | 23.67            | 0                   | 22.47           | 22.56           | 22.30            | 1                   |
|                  | 3          | 3            | 23.57           | 23.61           | 23.69            | 0                   | 22.47           | 22.45           | 22.30            | 1                   |
|                  | 6          | 0            | 22.56           | 22.61           | 22.45            | 1                   | 21.38           | 21.69           | 21.61            | 2                   |

| LTE<br>Band / BW | RB<br>Size | RB<br>Offset | QPSK            |                 |                  | 3GPP<br>MPR<br>(dB) | 16QAM           |                 |                  | 3GPP<br>MPR<br>(dB) |
|------------------|------------|--------------|-----------------|-----------------|------------------|---------------------|-----------------|-----------------|------------------|---------------------|
|                  |            |              | Low CH<br>20415 | Mid CH<br>20525 | High CH<br>20635 |                     | Low CH<br>20415 | Mid CH<br>20525 | High CH<br>20635 |                     |
|                  |            |              | 825.5<br>MHz    | 836.5<br>MHz    | 847.5<br>MHz     |                     | 825.5<br>MHz    | 836.5<br>MHz    | 847.5<br>MHz     |                     |
| 5 / 3M           | 1          | 0            | 23.41           | 23.47           | 23.57            | 0                   | 22.64           | 21.22           | 22.16            | 1                   |
|                  | 1          | 7            | 23.44           | 23.52           | 23.62            | 0                   | 22.67           | 21.24           | 22.12            | 1                   |
|                  | 1          | 14           | 23.56           | 23.52           | 23.54            | 0                   | 22.64           | 21.24           | 22.12            | 1                   |
|                  | 8          | 0            | 22.58           | 22.43           | 22.75            | 1                   | 21.63           | 21.72           | 21.90            | 2                   |
|                  | 8          | 3            | 22.59           | 22.44           | 22.56            | 1                   | 21.63           | 21.87           | 21.67            | 2                   |
|                  | 8          | 7            | 22.57           | 22.50           | 22.47            | 1                   | 21.54           | 21.78           | 21.67            | 2                   |
|                  | 15         | 0            | 22.56           | 22.63           | 22.55            | 1                   | 21.53           | 21.62           | 21.60            | 2                   |

| LTE<br>Band / BW | RB<br>Size | RB<br>Offset | QPSK            |                 |                  | 3GPP<br>MPR<br>(dB) | 16QAM           |                 |                  | 3GPP<br>MPR<br>(dB) |
|------------------|------------|--------------|-----------------|-----------------|------------------|---------------------|-----------------|-----------------|------------------|---------------------|
|                  |            |              | Low CH<br>20425 | Mid CH<br>20525 | High CH<br>20625 |                     | Low CH<br>20425 | Mid CH<br>20525 | High CH<br>20625 |                     |
|                  |            |              | 826.5<br>MHz    | 836.5<br>MHz    | 846.5<br>MHz     |                     | 826.5<br>MHz    | 836.5<br>MHz    | 846.5<br>MHz     |                     |
| 5 / 5M           | 1          | 0            | 23.69           | 23.36           | 23.44            | 0                   | 22.15           | 21.99           | 21.11            | 1                   |
|                  | 1          | 12           | 23.73           | 23.46           | 23.40            | 0                   | 22.15           | 22.13           | 21.99            | 1                   |
|                  | 1          | 24           | 23.65           | 23.43           | 23.44            | 0                   | 22.18           | 22.09           | 21.18            | 1                   |
|                  | 12         | 0            | 22.55           | 22.44           | 22.60            | 1                   | 21.40           | 21.42           | 21.71            | 2                   |
|                  | 12         | 6            | 22.47           | 22.45           | 22.52            | 1                   | 21.51           | 21.57           | 21.58            | 2                   |
|                  | 12         | 13           | 22.47           | 22.46           | 22.53            | 1                   | 21.40           | 21.58           | 21.60            | 2                   |
|                  | 25         | 0            | 22.54           | 22.53           | 22.53            | 1                   | 21.49           | 21.67           | 21.68            | 2                   |

| LTE<br>Band / BW | RB<br>Size | RB<br>Offset | QPSK            |                 |                  | 3GPP<br>MPR<br>(dB) | 16QAM           |                 |                  | 3GPP<br>MPR<br>(dB) |
|------------------|------------|--------------|-----------------|-----------------|------------------|---------------------|-----------------|-----------------|------------------|---------------------|
|                  |            |              | Low CH<br>20450 | Mid CH<br>20525 | High CH<br>20600 |                     | Low CH<br>20450 | Mid CH<br>20525 | High CH<br>20600 |                     |
|                  |            |              | 829.0<br>MHz    | 836.5<br>MHz    | 844.0<br>MHz     |                     | 829.0<br>MHz    | 836.5<br>MHz    | 844.0<br>MHz     |                     |
| 5 / 10M          | 1          | 0            | <b>23.75</b>    | 23.46           | 23.43            | 0                   | 22.10           | 21.65           | 22.45            | 1                   |
|                  | 1          | 24           | 23.45           | 23.31           | 23.56            | 0                   | 22.43           | 21.56           | 22.33            | 1                   |
|                  | 1          | 49           | 23.53           | 23.49           | 23.52            | 0                   | 22.54           | 21.45           | 22.28            | 1                   |
|                  | 25         | 0            | <b>22.68</b>    | 22.43           | 22.48            | 1                   | 21.70           | 21.91           | 21.52            | 2                   |
|                  | 25         | 12           | 22.42           | 22.44           | 22.51            | 1                   | 21.68           | 21.62           | 21.59            | 2                   |
|                  | 25         | 25           | 22.57           | 22.45           | 22.51            | 1                   | 21.69           | 21.63           | 21.57            | 2                   |
|                  | 50         | 0            | 22.47           | 22.50           | 22.63            | 1                   | 21.66           | 21.66           | 21.61            | 2                   |

| LTE<br>Band / BW | RB<br>Size | RB<br>Offset | QPSK            |                 |                  | 3GPP<br>MPR<br>(dB) | 16QAM           |                 |                  | 3GPP<br>MPR<br>(dB) |
|------------------|------------|--------------|-----------------|-----------------|------------------|---------------------|-----------------|-----------------|------------------|---------------------|
|                  |            |              | Low CH<br>23017 | Mid CH<br>23095 | High CH<br>23173 |                     | Low CH<br>23017 | Mid CH<br>23095 | High CH<br>23173 |                     |
|                  |            |              | 699.7<br>MHz    | 707.5<br>MHz    | 715.3<br>MHz     |                     | 699.7<br>MHz    | 707.5<br>MHz    | 715.3<br>MHz     |                     |
| 12 / 1.4M        | 1          | 0            | 23.75           | 23.77           | 23.85            | 0                   | 22.88           | 21.55           | 22.23            | 1                   |
|                  | 1          | 2            | 23.88           | 23.85           | 24.05            | 0                   | 23.02           | 21.61           | 22.31            | 1                   |
|                  | 1          | 5            | 23.73           | 23.92           | 23.79            | 0                   | 22.95           | 21.59           | 22.27            | 1                   |
|                  | 3          | 0            | 24.06           | 23.95           | 23.79            | 0                   | 22.78           | 22.60           | 22.57            | 1                   |
|                  | 3          | 1            | 23.99           | 23.94           | 23.95            | 0                   | 22.78           | 22.60           | 22.64            | 1                   |
|                  | 3          | 3            | 23.99           | 23.93           | 23.94            | 0                   | 22.78           | 22.60           | 22.64            | 1                   |
|                  | 6          | 0            | 22.80           | 22.97           | 23.06            | 1                   | 21.71           | 22.04           | 22.01            | 2                   |

| LTE<br>Band / BW | RB<br>Size | RB<br>Offset | QPSK            |                 |                  | 3GPP<br>MPR<br>(dB) | 16QAM           |                 |                  | 3GPP<br>MPR<br>(dB) |
|------------------|------------|--------------|-----------------|-----------------|------------------|---------------------|-----------------|-----------------|------------------|---------------------|
|                  |            |              | Low CH<br>23025 | Mid CH<br>23095 | High CH<br>23165 |                     | Low CH<br>23025 | Mid CH<br>23095 | High CH<br>23165 |                     |
|                  |            |              | 700.5<br>MHz    | 707.5<br>MHz    | 714.5<br>MHz     |                     | 700.5<br>MHz    | 707.5<br>MHz    | 714.5<br>MHz     |                     |
| 12 / 3M          | 1          | 0            | 23.76           | 23.79           | 23.93            | 0                   | 22.93           | 21.57           | 22.53            | 1                   |
|                  | 1          | 7            | 23.82           | 23.95           | 23.84            | 0                   | 23.00           | 21.69           | 22.46            | 1                   |
|                  | 1          | 14           | 23.82           | 23.95           | 23.73            | 0                   | 23.05           | 21.61           | 22.35            | 1                   |
|                  | 8          | 0            | 22.82           | 22.81           | 23.01            | 1                   | 21.83           | 22.23           | 22.48            | 2                   |
|                  | 8          | 3            | 22.82           | 22.96           | 22.89            | 1                   | 21.84           | 22.22           | 22.49            | 2                   |
|                  | 8          | 7            | 22.89           | 22.86           | 22.91            | 1                   | 21.80           | 22.21           | 21.91            | 2                   |
|                  | 15         | 0            | 22.95           | 22.89           | 23.09            | 1                   | 21.79           | 21.87           | 22.37            | 2                   |

| LTE<br>Band / BW | RB<br>Size | RB<br>Offset | QPSK            |                 |                  | 3GPP<br>MPR<br>(dB) | 16QAM           |                 |                  | 3GPP<br>MPR<br>(dB) |
|------------------|------------|--------------|-----------------|-----------------|------------------|---------------------|-----------------|-----------------|------------------|---------------------|
|                  |            |              | Low CH<br>23035 | Mid CH<br>23095 | High CH<br>23155 |                     | Low CH<br>23035 | Mid CH<br>23095 | High CH<br>23155 |                     |
|                  |            |              | 701.5<br>MHz    | 707.5<br>MHz    | 713.5<br>MHz     |                     | 701.5<br>MHz    | 707.5<br>MHz    | 713.5<br>MHz     |                     |
| 12 / 5M          | 1          | 0            | 24.03           | 23.75           | 23.76            | 0                   | 22.42           | 22.40           | 22.31            | 1                   |
|                  | 1          | 12           | 23.94           | 23.78           | 23.91            | 0                   | 22.48           | 22.20           | 22.21            | 1                   |
|                  | 1          | 24           | 23.76           | 23.75           | 23.86            | 0                   | 22.70           | 22.45           | 21.55            | 1                   |
|                  | 12         | 0            | 22.79           | 22.82           | 22.74            | 1                   | 21.88           | 22.05           | 22.03            | 2                   |
|                  | 12         | 6            | 22.80           | 22.88           | 22.89            | 1                   | 21.73           | 21.90           | 21.80            | 2                   |
|                  | 12         | 13           | 22.80           | 22.88           | 22.89            | 1                   | 21.73           | 21.90           | 21.81            | 2                   |
|                  | 25         | 0            | 22.74           | 22.83           | 23.01            | 1                   | 21.83           | 21.97           | 22.39            | 2                   |

| LTE<br>Band / BW | RB<br>Size | RB<br>Offset | QPSK            |                 |                  | 3GPP<br>MPR<br>(dB) | 16QAM           |                 |                  | 3GPP<br>MPR<br>(dB) |
|------------------|------------|--------------|-----------------|-----------------|------------------|---------------------|-----------------|-----------------|------------------|---------------------|
|                  |            |              | Low CH<br>23060 | Mid CH<br>23095 | High CH<br>23130 |                     | Low CH<br>23060 | Mid CH<br>23095 | High CH<br>23130 |                     |
|                  |            |              | 704.0<br>MHz    | 707.5<br>MHz    | 711.0<br>MHz     |                     | 704.0<br>MHz    | 707.5<br>MHz    | 711.0<br>MHz     |                     |
| 12 / 10M         | 1          | 0            | 23.90           | <b>24.09</b>    | 23.78            | 0                   | 22.33           | 21.63           | 22.65            | 1                   |
|                  | 1          | 24           | 23.81           | 23.76           | 23.66            | 0                   | 22.40           | 21.78           | 22.67            | 1                   |
|                  | 1          | 49           | 24.00           | 23.85           | 23.97            | 0                   | 22.96           | 21.75           | 22.43            | 1                   |
|                  | 25         | 0            | 22.81           | <b>23.06</b>    | 22.96            | 1                   | 21.83           | 22.12           | 21.93            | 2                   |
|                  | 25         | 12           | 22.73           | 23.02           | 22.82            | 1                   | 21.83           | 22.22           | 21.67            | 2                   |
|                  | 25         | 25           | 22.73           | 23.02           | 22.83            | 1                   | 21.83           | 22.09           | 21.96            | 2                   |
|                  | 50         | 0            | 22.82           | 22.95           | 22.80            | 1                   | 22.04           | 21.91           | 22.35            | 2                   |

| LTE<br>Band / BW | RB<br>Size | RB<br>Offset | QPSK            |                 |                  | 3GPP<br>MPR<br>(dB) | 16QAM           |                 |                  | 3GPP<br>MPR<br>(dB) |
|------------------|------------|--------------|-----------------|-----------------|------------------|---------------------|-----------------|-----------------|------------------|---------------------|
|                  |            |              | Low CH<br>26047 | Mid CH<br>26365 | High CH<br>26683 |                     | Low CH<br>26047 | Mid CH<br>26365 | High CH<br>26683 |                     |
|                  |            |              | 1850.7<br>MHz   | 1882.5<br>MHz   | 1914.3<br>MHz    |                     | 1850.7<br>MHz   | 1882.5<br>MHz   | 1914.3<br>MHz    |                     |
| 25 / 1.4M        | 1          | 0            | 22.68           | 22.47           | 22.45            | 0                   | 22.40           | 20.91           | 21.05            | 1                   |
|                  | 1          | 2            | 22.64           | 22.54           | 22.44            | 0                   | 22.27           | 20.87           | 21.12            | 1                   |
|                  | 1          | 5            | 22.74           | 22.38           | 22.48            | 0                   | 22.35           | 20.85           | 21.08            | 1                   |
|                  | 3          | 0            | 22.86           | 22.82           | 22.63            | 0                   | 22.02           | 21.44           | 20.92            | 1                   |
|                  | 3          | 1            | 22.85           | 22.68           | 22.50            | 0                   | 22.02           | 21.44           | 20.92            | 1                   |
|                  | 3          | 3            | 22.84           | 22.67           | 22.62            | 0                   | 22.03           | 21.44           | 21.03            | 1                   |
|                  | 6          | 0            | 21.87           | 21.70           | 21.53            | 1                   | 21.13           | 20.52           | 20.32            | 2                   |

| LTE<br>Band / BW | RB<br>Size | RB<br>Offset | QPSK            |                 |                  | 3GPP<br>MPR<br>(dB) | 16QAM           |                 |                  | 3GPP<br>MPR<br>(dB) |
|------------------|------------|--------------|-----------------|-----------------|------------------|---------------------|-----------------|-----------------|------------------|---------------------|
|                  |            |              | Low CH<br>26055 | Mid CH<br>26365 | High CH<br>26675 |                     | Low CH<br>26055 | Mid CH<br>26365 | High CH<br>26675 |                     |
|                  |            |              | 1851.5<br>MHz   | 1882.5<br>MHz   | 1913.5<br>MHz    |                     | 1851.5<br>MHz   | 1882.5<br>MHz   | 1913.5<br>MHz    |                     |
| 25 / 3M          | 1          | 0            | 22.75           | 22.52           | 22.38            | 0                   | 22.47           | 20.98           | 21.31            | 1                   |
|                  | 1          | 7            | 22.87           | 22.47           | 22.51            | 0                   | 22.36           | 20.92           | 21.31            | 1                   |
|                  | 1          | 14           | 22.74           | 22.56           | 22.62            | 0                   | 22.36           | 20.79           | 21.25            | 1                   |
|                  | 8          | 0            | 21.91           | 21.76           | 21.64            | 1                   | 21.19           | 20.92           | 20.44            | 2                   |
|                  | 8          | 3            | 21.76           | 21.77           | 21.55            | 1                   | 21.10           | 20.92           | 20.34            | 2                   |
|                  | 8          | 7            | 21.90           | 21.75           | 21.53            | 1                   | 21.08           | 20.77           | 20.50            | 2                   |
|                  | 15         | 0            | 21.84           | 21.71           | 21.53            | 1                   | 21.05           | 20.60           | 20.28            | 2                   |

| LTE<br>Band / BW | RB<br>Size | RB<br>Offset | QPSK            |                 |                  | 3GPP<br>MPR<br>(dB) | 16QAM           |                 |                  | 3GPP<br>MPR<br>(dB) |
|------------------|------------|--------------|-----------------|-----------------|------------------|---------------------|-----------------|-----------------|------------------|---------------------|
|                  |            |              | Low CH<br>26065 | Mid CH<br>26365 | High CH<br>26665 |                     | Low CH<br>26065 | Mid CH<br>26365 | High CH<br>26665 |                     |
|                  |            |              | 1852.5<br>MHz   | 1882.5<br>MHz   | 1912.5<br>MHz    |                     | 1852.5<br>MHz   | 1882.5<br>MHz   | 1912.5<br>MHz    |                     |
| 25 / 5M          | 1          | 0            | 23.01           | 22.39           | 22.41            | 0                   | 22.16           | 21.49           | 21.07            | 1                   |
|                  | 1          | 12           | 22.89           | 22.54           | 22.37            | 0                   | 22.16           | 21.65           | 21.31            | 1                   |
|                  | 1          | 24           | 23.04           | 22.39           | 22.19            | 0                   | 22.31           | 21.56           | 21.30            | 1                   |
|                  | 12         | 0            | 21.87           | 21.55           | 21.62            | 1                   | 21.16           | 20.54           | 20.09            | 2                   |
|                  | 12         | 6            | 21.87           | 21.67           | 21.53            | 1                   | 21.06           | 20.67           | 20.23            | 2                   |
|                  | 12         | 13           | 22.01           | 21.67           | 21.54            | 1                   | 21.06           | 20.68           | 20.24            | 2                   |
|                  | 25         | 0            | 21.78           | 21.64           | 21.59            | 1                   | 21.22           | 20.66           | 20.29            | 2                   |

| LTE<br>Band / BW | RB<br>Size | RB<br>Offset | QPSK            |                 |                  | 3GPP<br>MPR<br>(dB) | 16QAM           |                 |                  | 3GPP<br>MPR<br>(dB) |
|------------------|------------|--------------|-----------------|-----------------|------------------|---------------------|-----------------|-----------------|------------------|---------------------|
|                  |            |              | Low CH<br>26090 | Mid CH<br>26365 | High CH<br>26640 |                     | Low CH<br>26090 | Mid CH<br>26365 | High CH<br>26640 |                     |
|                  |            |              | 1855.0<br>MHz   | 1882.5<br>MHz   | 1910.0<br>MHz    |                     | 1855.0<br>MHz   | 1882.5<br>MHz   | 1910.0<br>MHz    |                     |
| 25 / 10M         | 1          | 0            | 22.90           | 22.82           | 22.46            | 0                   | 22.15           | 21.21           | 21.40            | 1                   |
|                  | 1          | 24           | 22.71           | 22.66           | 22.63            | 0                   | 22.25           | 20.92           | 21.45            | 1                   |
|                  | 1          | 49           | 22.82           | 22.56           | 22.52            | 0                   | 22.17           | 20.71           | 21.65            | 1                   |
|                  | 25         | 0            | 21.91           | 21.60           | 21.55            | 1                   | 21.43           | 21.00           | 20.14            | 2                   |
|                  | 25         | 12           | 21.90           | 21.61           | 21.41            | 1                   | 21.27           | 20.88           | 20.03            | 2                   |
|                  | 25         | 25           | 21.91           | 21.90           | 21.42            | 1                   | 21.43           | 20.88           | 20.19            | 2                   |
|                  | 50         | 0            | 21.78           | 21.91           | 21.55            | 1                   | 21.19           | 20.64           | 20.13            | 2                   |

| LTE<br>Band / BW | RB<br>Size | RB<br>Offset | QPSK            |                 |                  | 3GPP<br>MPR<br>(dB) | 16QAM           |                 |                  | 3GPP<br>MPR<br>(dB) |
|------------------|------------|--------------|-----------------|-----------------|------------------|---------------------|-----------------|-----------------|------------------|---------------------|
|                  |            |              | Low CH<br>26115 | Mid CH<br>26365 | High CH<br>26615 |                     | Low CH<br>26115 | Mid CH<br>26365 | High CH<br>26615 |                     |
|                  |            |              | 1857.5<br>MHz   | 1882.5<br>MHz   | 1907.5<br>MHz    |                     | 1857.5<br>MHz   | 1882.5<br>MHz   | 1907.5<br>MHz    |                     |
| 25 / 15M         | 1          | 0            | 22.82           | 22.59           | 22.46            | 0                   | 22.07           | 21.47           | 21.43            | 1                   |
|                  | 1          | 37           | 22.83           | 22.51           | 22.55            | 0                   | 22.36           | 21.34           | 21.40            | 1                   |
|                  | 1          | 74           | 22.84           | 22.34           | 22.52            | 0                   | 22.33           | 21.07           | 21.51            | 1                   |
|                  | 36         | 0            | 21.77           | 21.80           | 21.53            | 1                   | 21.27           | 20.66           | 20.07            | 2                   |
|                  | 36         | 19           | 21.77           | 21.68           | 21.55            | 1                   | 21.16           | 20.78           | 20.09            | 2                   |
|                  | 36         | 39           | 21.76           | 21.68           | 21.56            | 1                   | 21.16           | 20.78           | 20.10            | 2                   |
|                  | 75         | 0            | 21.93           | 21.47           | 21.55            | 1                   | 21.18           | 20.64           | 20.07            | 2                   |

| LTE<br>Band / BW | RB<br>Size | RB<br>Offset | QPSK            |                 |                  | 3GPP<br>MPR<br>(dB) | 16QAM           |                 |                  | 3GPP<br>MPR<br>(dB) |
|------------------|------------|--------------|-----------------|-----------------|------------------|---------------------|-----------------|-----------------|------------------|---------------------|
|                  |            |              | Low CH<br>26140 | Mid CH<br>26365 | High CH<br>26590 |                     | Low CH<br>26140 | Mid CH<br>26365 | High CH<br>26590 |                     |
|                  |            |              | 1860.0<br>MHz   | 1882.5<br>MHz   | 1905.0<br>MHz    |                     | 1860.0<br>MHz   | 1882.5<br>MHz   | 1905.0<br>MHz    |                     |
| 25 / 20M         | 1          | 0            | 22.68           | 22.74           | 22.66            | 0                   | 22.25           | 22.23           | 21.39            | 1                   |
|                  | 1          | 50           | 22.55           | 22.79           | 22.55            | 0                   | 22.11           | 22.27           | 21.31            | 1                   |
|                  | 1          | 99           | 22.80           | 22.71           | 23.09            | 0                   | 22.26           | 22.32           | 21.48            | 1                   |
|                  | 50         | 0            | 21.77           | 21.61           | 21.60            | 1                   | 21.30           | 20.74           | 20.21            | 2                   |
|                  | 50         | 25           | 21.78           | 21.89           | 21.92            | 1                   | 21.19           | 20.75           | 20.23            | 2                   |
|                  | 50         | 50           | 21.78           | 21.89           | 21.50            | 1                   | 21.19           | 20.74           | 20.23            | 2                   |
|                  | 100        | 0            | 21.86           | 21.82           | 21.52            | 1                   | 20.95           | 20.63           | 20.19            | 2                   |

| LTE<br>Band / BW | RB<br>Size | RB<br>Offset | QPSK             |                  |                   | 3GPP<br>MPR<br>(dB) | 16QAM            |                  |                   | 3GPP<br>MPR<br>(dB) |
|------------------|------------|--------------|------------------|------------------|-------------------|---------------------|------------------|------------------|-------------------|---------------------|
|                  |            |              | Low CH<br>131979 | Mid CH<br>132322 | High CH<br>132665 |                     | Low CH<br>131979 | Mid CH<br>132322 | High CH<br>132665 |                     |
|                  |            |              | 1710.7<br>MHz    | 1745<br>MHz      | 1779.3<br>MHz     |                     | 1710.7<br>MHz    | 1745<br>MHz      | 1779.3<br>MHz     |                     |
| 66 / 1.4M        | 1          | 0            | 23.15            | 23.35            | 22.80             | 0                   | 22.48            | 20.88            | 21.39             | 1                   |
|                  | 1          | 2            | 23.12            | 23.41            | 22.75             | 0                   | 22.45            | 20.86            | 22.08             | 1                   |
|                  | 1          | 5            | 23.16            | 23.38            | 22.81             | 0                   | 22.44            | 20.99            | 22.11             | 1                   |
|                  | 3          | 0            | 23.22            | 23.19            | 22.42             | 0                   | 22.22            | 21.25            | 21.53             | 1                   |
|                  | 3          | 1            | 23.21            | 23.30            | 22.42             | 0                   | 22.22            | 21.40            | 21.45             | 1                   |
|                  | 3          | 3            | 23.20            | 23.29            | 22.48             | 0                   | 22.09            | 21.24            | 21.45             | 1                   |
|                  | 6          | 0            | 22.30            | 22.32            | 21.41             | 1                   | 21.34            | 20.85            | 20.76             | 2                   |

| LTE<br>Band / BW | RB<br>Size | RB<br>Offset | QPSK             |                  |                   | 3GPP<br>MPR<br>(dB) | 16QAM            |                  |                   | 3GPP<br>MPR<br>(dB) |
|------------------|------------|--------------|------------------|------------------|-------------------|---------------------|------------------|------------------|-------------------|---------------------|
|                  |            |              | Low CH<br>131987 | Mid CH<br>132322 | High CH<br>132657 |                     | Low CH<br>131987 | Mid CH<br>132322 | High CH<br>132657 |                     |
|                  |            |              | 1711.5<br>MHz    | 1745<br>MHz      | 1778.5<br>MHz     |                     | 1711.5<br>MHz    | 1745<br>MHz      | 1778.5<br>MHz     |                     |
| 66 / 3M          | 1          | 0            | 22.92            | 22.79            | 22.74             | 0                   | 22.48            | 20.99            | 21.71             | 1                   |
|                  | 1          | 7            | 22.89            | 23.10            | 22.75             | 0                   | 22.44            | 20.92            | 21.68             | 1                   |
|                  | 1          | 14           | 22.78            | 22.89            | 23.11             | 0                   | 22.35            | 21.03            | 21.64             | 1                   |
|                  | 8          | 0            | 21.94            | 21.25            | 21.43             | 1                   | 21.33            | 20.91            | 20.68             | 2                   |
|                  | 8          | 3            | 21.93            | 21.26            | 21.30             | 1                   | 21.19            | 20.92            | 20.70             | 2                   |
|                  | 8          | 7            | 22.02            | 21.31            | 21.47             | 1                   | 21.29            | 20.97            | 20.83             | 2                   |
|                  | 15         | 0            | 21.98            | 21.29            | 21.56             | 1                   | 21.28            | 20.60            | 20.66             | 2                   |

| LTE<br>Band / BW | RB<br>Size | RB<br>Offset | QPSK             |                  |                   | 3GPP<br>MPR<br>(dB) | 16QAM            |                  |                   | 3GPP<br>MPR<br>(dB) |
|------------------|------------|--------------|------------------|------------------|-------------------|---------------------|------------------|------------------|-------------------|---------------------|
|                  |            |              | Low CH<br>131997 | Mid CH<br>132322 | High CH<br>132647 |                     | Low CH<br>131997 | Mid CH<br>132322 | High CH<br>132647 |                     |
|                  |            |              | 1712.5<br>MHz    | 1745<br>MHz      | 1777.5<br>MHz     |                     | 1712.5<br>MHz    | 1745<br>MHz      | 1777.5<br>MHz     |                     |
| 66 / 5M          | 1          | 0            | 23.03            | 22.91            | 22.93             | 0                   | 22.47            | 21.42            | 21.45             | 1                   |
|                  | 1          | 12           | 22.94            | 22.85            | 22.96             | 0                   | 22.31            | 21.37            | 20.57             | 1                   |
|                  | 1          | 24           | 23.04            | 22.91            | 22.97             | 0                   | 22.28            | 21.44            | 20.60             | 1                   |
|                  | 12         | 0            | 22.05            | 21.23            | 21.24             | 1                   | 21.13            | 20.28            | 20.52             | 2                   |
|                  | 12         | 6            | 21.91            | 21.23            | 21.26             | 1                   | 21.13            | 20.48            | 20.53             | 2                   |
|                  | 12         | 13           | 21.91            | 21.23            | 21.35             | 1                   | 21.13            | 20.31            | 20.53             | 2                   |
|                  | 25         | 0            | 21.85            | 21.29            | 21.39             | 1                   | 21.11            | 20.56            | 20.58             | 2                   |

| LTE<br>Band / BW | RB<br>Size | RB<br>Offset | QPSK             |                  |                   | 3GPP<br>MPR<br>(dB) | 16QAM            |                  |                   | 3GPP<br>MPR<br>(dB) |
|------------------|------------|--------------|------------------|------------------|-------------------|---------------------|------------------|------------------|-------------------|---------------------|
|                  |            |              | Low CH<br>132022 | Mid CH<br>132322 | High CH<br>132622 |                     | Low CH<br>132022 | Mid CH<br>132322 | High CH<br>132622 |                     |
|                  |            |              | 1715.0<br>MHz    | 1745<br>MHz      | 1775.0<br>MHz     |                     | 1715.0<br>MHz    | 1745<br>MHz      | 1775.0<br>MHz     |                     |
| 66 / 10M         | 1          | 0            | 22.84            | 23.04            | 22.94             | 0                   | 22.25            | 20.84            | 21.87             | 1                   |
|                  | 1          | 24           | 22.82            | 22.97            | 23.03             | 0                   | 22.41            | 20.96            | 21.89             | 1                   |
|                  | 1          | 49           | 22.72            | 22.80            | 22.92             | 0                   | 22.49            | 21.00            | 22.03             | 1                   |
|                  | 25         | 0            | 22.09            | 21.24            | 21.31             | 1                   | 21.37            | 20.72            | 20.64             | 2                   |
|                  | 25         | 12           | 21.82            | 21.33            | 21.33             | 1                   | 21.27            | 20.72            | 20.66             | 2                   |
|                  | 25         | 25           | 21.68            | 21.33            | 21.33             | 1                   | 21.28            | 20.72            | 20.56             | 2                   |
|                  | 50         | 0            | 21.83            | 21.46            | 21.41             | 1                   | 21.21            | 20.62            | 20.57             | 2                   |

| LTE<br>Band / BW | RB<br>Size | RB<br>Offset | QPSK             |                  |                   | 3GPP<br>MPR<br>(dB) | 16QAM            |                  |                   | 3GPP<br>MPR<br>(dB) |
|------------------|------------|--------------|------------------|------------------|-------------------|---------------------|------------------|------------------|-------------------|---------------------|
|                  |            |              | Low CH<br>132047 | Mid CH<br>132322 | High CH<br>132597 |                     | Low CH<br>132047 | Mid CH<br>132322 | High CH<br>132597 |                     |
|                  |            |              | 1717.5<br>MHz    | 1745<br>MHz      | 1772.5<br>MHz     |                     | 1717.5<br>MHz    | 1745<br>MHz      | 1772.5<br>MHz     |                     |
| 66 / 15M         | 1          | 0            | 22.88            | 22.91            | 22.90             | 0                   | 22.25            | 21.35            | 21.95             | 1                   |
|                  | 1          | 37           | 22.90            | 22.83            | 22.99             | 0                   | 22.29            | 21.50            | 21.82             | 1                   |
|                  | 1          | 74           | 23.00            | 22.96            | 22.85             | 0                   | 22.15            | 21.36            | 21.93             | 1                   |
|                  | 36         | 0            | 21.95            | 21.29            | 21.33             | 1                   | 21.26            | 20.64            | 20.40             | 2                   |
|                  | 36         | 19           | 21.81            | 21.28            | 21.25             | 1                   | 21.26            | 20.64            | 20.55             | 2                   |
|                  | 36         | 39           | 21.94            | 21.28            | 21.26             | 1                   | 21.27            | 20.64            | 20.56             | 2                   |
|                  | 75         | 0            | 21.82            | 21.38            | 21.36             | 1                   | 21.08            | 20.59            | 20.62             | 2                   |

| LTE<br>Band / BW | RB<br>Size | RB<br>Offset | QPSK             |                  |                   | 3GPP<br>MPR<br>(dB) | 16QAM            |                  |                   | 3GPP<br>MPR<br>(dB) |
|------------------|------------|--------------|------------------|------------------|-------------------|---------------------|------------------|------------------|-------------------|---------------------|
|                  |            |              | Low CH<br>132072 | Mid CH<br>132322 | High CH<br>132572 |                     | Low CH<br>132072 | Mid CH<br>132322 | High CH<br>132572 |                     |
|                  |            |              | 1720<br>MHz      | 1745<br>MHz      | 1770.0<br>MHz     |                     | 1720<br>MHz      | 1745<br>MHz      | 1770.0<br>MHz     |                     |
| 66 / 20M         | 1          | 0            | 22.96            | 23.13            | <b>23.42</b>      | 0                   | 22.42            | 22.30            | 21.64             | 1                   |
|                  | 1          | 50           | 23.34            | 22.84            | 22.94             | 0                   | 22.12            | 22.23            | 21.61             | 1                   |
|                  | 1          | 99           | 22.82            | 22.74            | 23.13             | 0                   | 21.93            | 22.33            | 21.88             | 1                   |
|                  | 50         | 0            | 21.61            | 21.32            | <b>21.92</b>      | 1                   | 21.21            | 20.63            | 20.82             | 2                   |
|                  | 50         | 25           | 21.90            | 21.32            | 21.26             | 1                   | 21.31            | 20.62            | 20.60             | 2                   |
|                  | 50         | 50           | 21.76            | 21.31            | 21.27             | 1                   | 21.32            | 20.51            | 20.61             | 2                   |
|                  | 100        | 0            | 21.71            | 21.40            | 21.31             | 1                   | 21.03            | 20.74            | 20.51             | 2                   |

All Rate have been tested, the Worst average power (Unit: dBm) is shown as below.

**<WLAN 2.4G>**

| Mode                      | 802.11b (1Mbps)        |          |           |
|---------------------------|------------------------|----------|-----------|
| Channel / Frequency (MHz) | 1 (2412)               | 6 (2437) | 11 (2462) |
| Average Power             | 15.34                  | 15.30    | 14.86     |
| Mode                      | 802.11g (6Mbps)        |          |           |
| Channel / Frequency (MHz) | 1 (2412)               | 6 (2437) | 11 (2462) |
| Average Power             | 16.00                  | 15.81    | 16.04     |
| Mode                      | 802.11n (HT20) (MCS0)  |          |           |
| Channel / Frequency (MHz) | 1 (2412)               | 6 (2437) | 11 (2462) |
| Average Power             | 15.16                  | 15.88    | 14.97     |
| Mode                      | 802.11n (HT40) (MCS0)  |          |           |
| Channel / Frequency (MHz) | 3 (2422)               | 6 (2437) | 9 (2452)  |
| Average Power             | 15.01                  | 16.70    | 15.71     |
| Mode                      | 802.11ax (HT20) (MCS0) |          |           |
| Channel / Frequency (MHz) | 3 (2422)               | 6 (2437) | 9 (2452)  |
| Average Power             | 14.90                  | 13.54    | 15.12     |
| Mode                      | 802.11ax (HT40) (MCS0) |          |           |
| Channel / Frequency (MHz) | 3 (2422)               | 6 (2437) | 9 (2452)  |
| Average Power             | 18.02                  | 16.92    | 15.97     |

**<WLAN 5.2G>**

| Mode                      | 802.11a (6Mbps)         |           |           |
|---------------------------|-------------------------|-----------|-----------|
| Channel / Frequency (MHz) | 36 (5180)               | 40 (5200) | 48 (5240) |
| Average Power             | 10.34                   | 10.29     | 11.06     |
| Mode                      | 802.11n (HT20)(MCS0)    |           |           |
| Channel / Frequency (MHz) | 36 (5180)               | 40 (5200) | 48 (5240) |
| Average Power             | 10.44                   | 10.30     | 11.02     |
| Mode                      | 802.11n (HT40)(MCS0)    |           |           |
| Channel / Frequency (MHz) | 38 (5190)               | 46 (5230) |           |
| Average Power             | 8.40                    | 8.97      |           |
| Mode                      | 802.11ac (VHT20) (MCS0) |           |           |
| Channel / Frequency (MHz) | 36 (5180)               | 40 (5200) | 48 (5240) |
| Average Power             | 10.28                   | 10.36     | 11.11     |
| Mode                      | 802.11ac (VHT40)(MCS0)  |           |           |
| Channel / Frequency (MHz) | 38 (5190)               | 46 (5230) |           |
| Average Power             | 12.86                   | 13.35     |           |
| Mode                      | 802.11ac (VHT80) (MCS0) |           |           |
| Channel / Frequency (MHz) | 42 (5210)               |           |           |
| Average Power             | 11.10                   |           |           |
| Mode                      | 802.11ax (HE20) (MCS0)  |           |           |
| Channel / Frequency (MHz) | 36 (5180)               | 40 (5200) | 48 (5240) |
| Average Power             | 12.89                   | 12.64     | 13.41     |
| Mode                      | 802.11ax (HE40) (MCS0)  |           |           |
| Channel / Frequency (MHz) | 38 (5190)               | 46 (5230) |           |
| Average Power             | 12.16                   | 12.14     |           |
| Mode                      | 9.24                    |           |           |
| Channel / Frequency (MHz) | 42 (5210)               |           |           |
| Average Power             | 12.41                   |           |           |

**<WLAN 5.8G>**

| Mode                      | 802.11a (6Mbps)         |            |            |
|---------------------------|-------------------------|------------|------------|
| Channel / Frequency (MHz) | 149 (5745)              | 157 (5785) | 165 (5825) |
| Average Power             | 9.24                    | 8.34       | 8.82       |
| Mode                      | 802.11n (HT20)          |            |            |
| Channel / Frequency (MHz) | 149 (5745)              | 157 (5785) | 165 (5825) |
| Average Power             | 9.16                    | 8.26       | 8.77       |
| Mode                      | 802.11n (HT40) (MCS0)   |            |            |
| Channel / Frequency (MHz) | 151 (5755)              | 159 (5795) |            |
| Average Power             | 8.95                    | 8.10       |            |
| Mode                      | 802.11ac (VHT20) (MCS0) |            |            |
| Channel / Frequency (MHz) | 149 (5745)              | 157 (5785) | 165 (5825) |
| Average Power             | 10.22                   | 10.35      | 10.91      |
| Mode                      | 802.11ac (VHT40) (MCS0) |            |            |
| Channel / Frequency (MHz) | 151 (5755)              | 159 (5795) |            |
| Average Power             | 8.86                    | 9.39       |            |
| Mode                      | 802.11ac (VHT80) (MCS0) |            |            |
| Channel / Frequency (MHz) | 155 (5775)              |            |            |
| Average Power             | 10.52                   |            |            |
| Mode                      | 802.11ax (HE20) (MCS0)  |            |            |
| Channel / Frequency (MHz) | 149 (5745)              | 157 (5785) | 165 (5825) |
| Average Power             | 9.27                    | 8.29       | 8.86       |
| Mode                      | 802.11ax (HE40) (MCS0)  |            |            |
| Channel / Frequency (MHz) | 151 (5755)              | 159 (5795) |            |
| Average Power             | 11.34                   | 12.24      |            |
| Mode                      | 802.11ax (HE80) (MCS0)  |            |            |
| Channel / Frequency (MHz) | 155 (5775)              |            |            |
| Average Power             | 10.46                   |            |            |

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**<Bluetooth>**

| Mode                      | Bluetooth GFSK           |           |           |
|---------------------------|--------------------------|-----------|-----------|
| Channel / Frequency (MHz) | 0 (2402)                 | 39 (2441) | 78 (2480) |
| Average Power             | 0.98                     | 0.92      | 0.73      |
| Mode                      | Bluetooth $\pi/4$ -DQPSK |           |           |
| Channel / Frequency (MHz) | 0 (2402)                 | 39 (2441) | 78 (2480) |
| Average Power             | 0.98                     | 0.63      | 0.83      |
| Mode                      | Bluetooth 8DPSK          |           |           |
| Channel / Frequency (MHz) | 0 (2402)                 | 39 (2441) | 78 (2480) |
| Average Power             | 0.99                     | 0.64      | 0.84      |
| Mode                      | Bluetooth LE (1M)        |           |           |
| Channel / Frequency (MHz) | 0 (2402)                 | 19 (2440) | 39 (2480) |
| Average Power             | 1.16                     | 0.88      | 1.02      |
| Mode                      | Bluetooth LE (2M)        |           |           |
| Channel / Frequency (MHz) | 0 (2402)                 | 19 (2440) | 39 (2480) |
| Average Power             | 1.18                     | 0.88      | 1.03      |

### 8.3. SAR Testing Results

#### 8.3.1. SAR Test Reduction Considerations

##### <KDB 447498 D01, General RF Exposure Guidance>

Testing of other required channels within the operating mode of a frequency band is not required when the reported SAR for the mid-band or highest output power channel is:

- (1)  $\leq 0.8$  W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is  $\leq 100$  MHz
- (2)  $\leq 0.6$  W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
- (3)  $\leq 0.4$  W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is  $\geq 200$  MHz

##### <KDB 941225 D01, 3G SAR Measurement Procedures>

The mode tested for SAR is referred to as the primary mode. The equivalent modes considered for SAR test reduction are denoted as secondary modes. Both primary and secondary modes must be in the same frequency band. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is  $\leq 1/4$  dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is  $\leq 1.2$  W/kg, SAR measurement is not required for the secondary mode.

##### <KDB 941225 D05, SAR Evaluation Considerations for LTE Devices>

- (1) QPSK with 1 RB and 50% RB allocation

Start with the largest channel bandwidth and measure SAR, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle and lower edge of each required test channel. 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 and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is  $> 1.45$  W/kg, SAR is required for all three RB offset configurations for that required test channel.

- (2) QPSK with 100% RB allocation

SAR is not required when the highest maximum output power for 100% RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are  $\leq 0.8$  W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is  $> 1.45$  W/kg, the remaining required test channels must also be tested.

- (3) Higher order modulations

SAR is required only when the highest maximum output power for the configuration in the higher order modulation is  $> 1/2$  dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is  $> 1.45$  W/kg.

- (4) Other channel bandwidth

SAR is required when the highest maximum output power of the smaller channel bandwidth is  $> 1/2$  dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is  $> 1.45$  W/kg.

**<KDB 248227 D01, SAR Guidance for Wi-Fi Transmitters>**

- (1) For handsets operating next to ear, hotspot mode or mini-tablet configurations, 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 the reported SAR of initial test position is  $\leq 0.4$  W/kg, SAR testing for remaining test positions is not 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) For WLAN 2.4 GHz, the highest measured maximum output power channel for DSSS was selected for SAR measurement. When the reported SAR is  $\leq 0.8$  W/kg, no further SAR testing is required. Otherwise, SAR is evaluated at the next highest measured output power channel. When any reported SAR is  $> 1.2$  W/kg, SAR is required for the third channel. For OFDM modes (802.11g/n), SAR is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and it is  $\leq 1.2$  W/kg.
- (3) For WLAN 5 GHz, the initial test configuration was selected according to the transmission mode with the highest maximum output power. When the reported SAR of initial test configuration is  $> 0.8$  W/kg, SAR is required for the subsequent highest measured output power channel until the reported SAR result is  $\leq 1.2$  W/kg or all required channels are measured. For other transmission modes, SAR is not required when the highest reported SAR for initial test configuration is adjusted by the ratio of subsequent test configuration to initial test configuration specified maximum output power and it is  $\leq 1.2$  W/kg.

### 8.3.2. SAR Results for Head Exposure Condition

| Plot No. | Band     | Mode     | Test Position | Ch.  | SIM | Max. Tune-up Power (dBm) | Measured Conducted Power (dBm) | Scaling Factor | Power Drift (dB) | Measured SAR-1g (W/kg) | Scaled SAR-1g (W/kg) |
|----------|----------|----------|---------------|------|-----|--------------------------|--------------------------------|----------------|------------------|------------------------|----------------------|
| G01      | GSM 850  | GSM      | Right Cheek   | 251  | 1   | 33                       | 32.94                          | 1.014          | 0.05             | 0.097                  | 0.108                |
| G02      | GSM 850  | GSM      | Right Tilted  | 251  | 1   | 33                       | 32.94                          | 1.014          | 0.02             | 0.051                  | 0.057                |
| G03      | GSM 850  | GSM      | Left Cheek    | 251  | 1   | 33                       | 32.94                          | 1.014          | 0.08             | <b>0.103</b>           | <b>0.115</b>         |
| G04      | GSM 850  | GSM      | Left Tilted   | 251  | 1   | 33                       | 32.94                          | 1.014          | 0.07             | 0.084                  | 0.094                |
| G07      | GSM 850  | GSM      | Left Cheek    | 251  | 2   | 33                       | 32.94                          | 1.014          | 0.05             | 0.087                  | 0.097                |
| G09      | GSM 1900 | GSM      | Right Cheek   | 512  | 1   | 30                       | 29.08                          | 1.236          | 0.08             | 0.061                  | 0.067                |
| G10      | GSM 1900 | GSM      | Right Tilted  | 512  | 1   | 30                       | 29.08                          | 1.236          | 0.07             | 0.051                  | 0.056                |
| G11      | GSM 1900 | GSM      | Left Cheek    | 512  | 1   | 30                       | 29.08                          | 1.236          | 0.09             | <b>0.075</b>           | <b>0.083</b>         |
| G12      | GSM 1900 | GSM      | Left Tilted   | 512  | 1   | 30                       | 29.08                          | 1.236          | 0.05             | 0.062                  | 0.068                |
| G15      | GSM 1900 | GSM      | Left Cheek    | 512  | 2   | 30                       | 29.08                          | 1.236          | 0.07             | 0.072                  | 0.079                |
| U01      | UMTS B2  | RMC12.2K | Right Cheek   | 9400 | 1   | 22.5                     | 22.41                          | 1.021          | 0.06             | 0.127                  | 0.130                |
| U02      | UMTS B2  | RMC12.2K | Right Tilted  | 9400 | 1   | 22.5                     | 22.41                          | 1.021          | 0.07             | 0.081                  | 0.083                |
| U03      | UMTS B2  | RMC12.2K | Left Cheek    | 9400 | 1   | 22.5                     | 22.41                          | 1.021          | 0.04             | <b>0.145</b>           | <b>0.148</b>         |
| U04      | UMTS B2  | RMC12.2K | Left Tilted   | 9400 | 1   | 22.5                     | 22.41                          | 1.021          | 0.02             | 0.134                  | 0.137                |
| U07      | UMTS B2  | RMC12.2K | Left Cheek    | 9400 | 2   | 22.5                     | 22.41                          | 1.021          | 0.01             | 0.123                  | 0.126                |
| U09      | UMTS B4  | RMC12.2K | Right Cheek   | 1312 | 1   | 23                       | 22.68                          | 1.076          | 0.05             | 0.081                  | 0.088                |
| U10      | UMTS B4  | RMC12.2K | Right Tilted  | 1312 | 1   | 23                       | 22.68                          | 1.076          | 0.07             | 0.051                  | 0.055                |
| U11      | UMTS B4  | RMC12.2K | Left Cheek    | 1312 | 1   | 23                       | 22.68                          | 1.076          | 0.01             | <b>0.106</b>           | <b>0.115</b>         |
| U12      | UMTS B4  | RMC12.2K | Left Tilted   | 1312 | 1   | 23                       | 22.68                          | 1.076          | 0.02             | 0.073                  | 0.079                |
| U15      | UMTS B4  | RMC12.2K | Left Cheek    | 1312 | 2   | 23                       | 22.68                          | 1.076          | 0.01             | 0.083                  | 0.090                |
| U17      | UMTS B5  | RMC12.2K | Right Cheek   | 4182 | 1   | 23                       | 22.86                          | 1.033          | 0.06             | 0.061                  | 0.064                |
| U18      | UMTS B5  | RMC12.2K | Right Tilted  | 4182 | 1   | 23                       | 22.86                          | 1.033          | 0.04             | 0.034                  | 0.036                |
| U19      | UMTS B5  | RMC12.2K | Left Cheek    | 4182 | 1   | 23                       | 22.86                          | 1.033          | -0.02            | <b>0.086</b>           | <b>0.090</b>         |
| U20      | UMTS B5  | RMC12.2K | Left Tilted   | 4182 | 1   | 23                       | 22.86                          | 1.033          | 0.02             | 0.053                  | 0.055                |
| U23      | UMTS B5  | RMC12.2K | Left Cheek    | 4182 | 2   | 23                       | 22.86                          | 1.033          | 0.01             | 0.064                  | 0.067                |

| Plot No. | Band   | Mode    | Test Position | Ch.   | RB# | RB Offset | SIM | Max. Tune-up Power (dBm) | Measured Conducted Power (dBm) | Scaling Factor | Power Drift (dB) | Measured SAR-1g (W/kg) | Scaled SAR-1g (W/kg) |
|----------|--------|---------|---------------|-------|-----|-----------|-----|--------------------------|--------------------------------|----------------|------------------|------------------------|----------------------|
| L01      | LTE B2 | QPSK20M | Right Cheek   | 18900 | 1   | 99        | 1   | 23.50                    | 23.25                          | 1.059          | -0.06            | 0.081                  | 0.082                |
| L02      | LTE B2 | QPSK20M | Right Tilted  | 18900 | 1   | 99        | 1   | 23.50                    | 23.25                          | 1.059          | 0.01             | 0.082                  | 0.082                |
| L03      | LTE B2 | QPSK20M | Left Cheek    | 18900 | 1   | 99        | 1   | 23.50                    | 23.25                          | 1.059          | 0.06             | <b>0.138</b>           | <b>0.140</b>         |
| L04      | LTE B2 | QPSK20M | Left Tilted   | 18900 | 1   | 99        | 1   | 23.50                    | 23.25                          | 1.059          | -0.07            | 0.092                  | 0.093                |
| L05      | LTE B2 | QPSK20M | Right Cheek   | 18900 | 50  | 50        | 1   | 22.50                    | 22.05                          | 1.109          | 0.07             | 0.075                  | 0.078                |
| L06      | LTE B2 | QPSK20M | Right Tilted  | 18900 | 50  | 50        | 1   | 22.50                    | 22.05                          | 1.109          | 0.08             | 0.073                  | 0.076                |
| L07      | LTE B2 | QPSK20M | Left Cheek    | 18900 | 50  | 50        | 1   | 22.50                    | 22.05                          | 1.109          | 0.07             | 0.125                  | 0.130                |
| L08      | LTE B2 | QPSK20M | Left Tilted   | 18900 | 50  | 50        | 1   | 22.50                    | 22.05                          | 1.109          | 0.04             | 0.086                  | 0.089                |
| L13      | LTE B2 | QPSK20M | Left Cheek    | 18900 | 1   | 99        | 2   | 23.50                    | 23.25                          | 1.059          | 0.07             | 0.131                  | 0.133                |
| L15      | LTE B4 | QPSK20M | Right Cheek   | 20300 | 1   | 99        | 1   | 23.50                    | 23.36                          | 1.033          | 0.06             | 0.152                  | 0.167                |
| L16      | LTE B4 | QPSK20M | Right Tilted  | 20300 | 1   | 99        | 1   | 23.50                    | 23.36                          | 1.033          | -0.07            | 0.121                  | 0.133                |
| L17      | LTE B4 | QPSK20M | Left Cheek    | 20300 | 1   | 99        | 1   | 23.50                    | 23.36                          | 1.033          | 0.02             | <b>0.191</b>           | <b>0.209</b>         |
| L18      | LTE B4 | QPSK20M | Left Tilted   | 20300 | 1   | 99        | 1   | 23.50                    | 23.36                          | 1.033          | 0.06             | 0.164                  | 0.180                |
| L19      | LTE B4 | QPSK20M | Right Cheek   | 20300 | 50  | 50        | 1   | 22.50                    | 21.68                          | 1.208          | -0.07            | 0.122                  | 0.140                |
| L20      | LTE B4 | QPSK20M | Right Tilted  | 20300 | 50  | 50        | 1   | 22.50                    | 21.68                          | 1.208          | 0.07             | 0.103                  | 0.119                |
| L21      | LTE B4 | QPSK20M | Left Cheek    | 20300 | 50  | 50        | 1   | 22.50                    | 21.68                          | 1.208          | 0.07             | 0.132                  | 0.152                |
| L22      | LTE B4 | QPSK20M | Left Tilted   | 20300 | 50  | 50        | 1   | 22.50                    | 21.68                          | 1.208          | 0.02             | 0.112                  | 0.129                |
| L27      | LTE B4 | QPSK20M | Left Cheek    | 20300 | 1   | 99        | 2   | 23.50                    | 23.36                          | 1.033          | 0.02             | 0.124                  | 0.136                |

| Plot No. | Band    | Mode    | Test Position | Ch.    | RB# | RB Offset | SIM | Max. Tune-up Power (dBm) | Measured Conducted Power (dBm) | Scaling Factor | Power Drift (dB) | Measured SAR-1g (W/kg) | Scaled SAR-1g (W/kg) |
|----------|---------|---------|---------------|--------|-----|-----------|-----|--------------------------|--------------------------------|----------------|------------------|------------------------|----------------------|
| L29      | LTE B5  | QPSK10M | Right Cheek   | 20450  | 1   | 0         | 1   | 24.00                    | 23.75                          | 1.042          | 0.06             | 0.071                  | 0.075                |
| L30      | LTE B5  | QPSK10M | Right Tilted  | 20450  | 1   | 0         | 1   | 24.00                    | 23.75                          | 1.042          | -0.09            | 0.053                  | 0.056                |
| L31      | LTE B5  | QPSK10M | Left Cheek    | 20450  | 1   | 0         | 1   | 24.00                    | 23.75                          | 1.042          | 0.09             | <b>0.079</b>           | <b>0.083</b>         |
| L32      | LTE B5  | QPSK10M | Left Tilted   | 20450  | 1   | 0         | 1   | 24.00                    | 23.75                          | 1.042          | -0.07            | 0.055                  | 0.058                |
| L33      | LTE B5  | QPSK10M | Right Cheek   | 20450  | 25  | 0         | 1   | 23.00                    | 22.68                          | 1.084          | 0.02             | 0.059                  | 0.064                |
| L34      | LTE B5  | QPSK10M | Right Tilted  | 20450  | 25  | 0         | 1   | 23.00                    | 22.68                          | 1.084          | 0.06             | 0.024                  | 0.026                |
| L35      | LTE B5  | QPSK10M | Left Cheek    | 20450  | 25  | 0         | 1   | 23.00                    | 22.68                          | 1.084          | -0.09            | 0.063                  | 0.068                |
| L36      | LTE B5  | QPSK10M | Left Tilted   | 20450  | 25  | 0         | 1   | 23.00                    | 22.68                          | 1.084          | 0.03             | 0.022                  | 0.024                |
| L41      | LTE B5  | QPSK10M | Right Cheek   | 20450  | 1   | 0         | 2   | 24.00                    | 23.75                          | 1.042          | 0.05             | 0.051                  | 0.054                |
| L43      | LTE B12 | QPSK10M | Right Cheek   | 23095  | 1   | 0         | 1   | 24.50                    | 24.09                          | 1.099          | 0.02             | 0.012                  | 0.013                |
| L44      | LTE B12 | QPSK10M | Right Tilted  | 23095  | 1   | 0         | 1   | 24.50                    | 24.09                          | 1.099          | 0.05             | 0.005                  | 0.005                |
| L45      | LTE B12 | QPSK10M | Left Cheek    | 23095  | 1   | 0         | 1   | 24.50                    | 24.09                          | 1.099          | -0.08            | <b>0.015</b>           | <b>0.017</b>         |
| L46      | LTE B12 | QPSK10M | Left Tilted   | 23095  | 1   | 0         | 1   | 24.50                    | 24.09                          | 1.099          | 0.08             | 0.007                  | 0.008                |
| L47      | LTE B12 | QPSK10M | Right Cheek   | 23095  | 25  | 0         | 1   | 23.50                    | 23.06                          | 1.099          | 0.05             | 0.008                  | 0.009                |
| L48      | LTE B12 | QPSK10M | Right Tilted  | 23095  | 25  | 0         | 1   | 23.50                    | 23.06                          | 1.099          | 0.06             | 0.005                  | 0.006                |
| L49      | LTE B12 | QPSK10M | Left Cheek    | 23095  | 25  | 0         | 1   | 23.50                    | 23.06                          | 1.099          | 0.00             | 0.009                  | 0.010                |
| L50      | LTE B12 | QPSK10M | Left Tilted   | 23095  | 25  | 0         | 1   | 23.50                    | 23.06                          | 1.099          | 0.04             | 0.002                  | 0.002                |
| L55      | LTE B12 | QPSK10M | Right Cheek   | 23095  | 1   | 0         | 2   | 24.50                    | 24.09                          | 1.099          | 0.02             | 0.013                  | 0.014                |
| L57      | LTE B25 | QPSK20M | Right Cheek   | 26590  | 1   | 99        | 1   | 23.50                    | 23.09                          | 1.099          | 0.07             | 0.081                  | 0.089                |
| L58      | LTE B25 | QPSK20M | Right Tilted  | 26590  | 1   | 99        | 1   | 23.50                    | 23.09                          | 1.099          | 0.08             | 0.064                  | 0.070                |
| L59      | LTE B25 | QPSK20M | Left Cheek    | 26590  | 1   | 99        | 1   | 23.50                    | 23.09                          | 1.099          | 0.02             | <b>0.102</b>           | <b>0.112</b>         |
| L60      | LTE B25 | QPSK20M | Left Tilted   | 26590  | 1   | 99        | 1   | 23.50                    | 23.09                          | 1.099          | -0.06            | 0.083                  | 0.091                |
| L61      | LTE B25 | QPSK20M | Right Cheek   | 26590  | 50  | 25        | 1   | 22.50                    | 21.92                          | 1.143          | 0.07             | 0.088                  | 0.101                |
| L62      | LTE B25 | QPSK20M | Right Tilted  | 26590  | 50  | 25        | 1   | 22.50                    | 21.92                          | 1.143          | 0.04             | 0.081                  | 0.093                |
| L63      | LTE B25 | QPSK20M | Left Cheek    | 26590  | 50  | 25        | 1   | 22.50                    | 21.92                          | 1.143          | -0.05            | 0.077                  | 0.088                |
| L64      | LTE B25 | QPSK20M | Left Tilted   | 26590  | 50  | 25        | 1   | 22.50                    | 21.92                          | 1.143          | 0.05             | 0.007                  | 0.008                |
| L69      | LTE B25 | QPSK20M | Right Cheek   | 26590  | 1   | 99        | 2   | 23.50                    | 23.09                          | 1.099          | 0.01             | 0.078                  | 0.086                |
| L85      | LTE B66 | QPSK20M | Right Cheek   | 132572 | 1   | 0         | 1   | 23.50                    | 23.42                          | 1.019          | 0.02             | 0.175                  | 0.178                |
| L86      | LTE B66 | QPSK20M | Right Tilted  | 132572 | 1   | 0         | 1   | 23.50                    | 23.42                          | 1.019          | 0.01             | 0.154                  | 0.157                |
| L87      | LTE B66 | QPSK20M | Left Cheek    | 132572 | 1   | 0         | 1   | 23.50                    | 23.42                          | 1.019          | 0.03             | <b>0.196</b>           | <b>0.200</b>         |
| L88      | LTE B66 | QPSK20M | Left Tilted   | 132572 | 1   | 0         | 1   | 23.50                    | 23.42                          | 1.019          | -0.05            | 0.163                  | 0.166                |
| L89      | LTE B66 | QPSK20M | Right Cheek   | 132572 | 50  | 0         | 1   | 22.50                    | 21.92                          | 1.143          | 0.06             | 0.146                  | 0.167                |
| L90      | LTE B66 | QPSK20M | Right Tilted  | 132572 | 50  | 0         | 1   | 22.50                    | 21.92                          | 1.143          | 0.02             | 0.127                  | 0.145                |
| L91      | LTE B66 | QPSK20M | Left Cheek    | 132572 | 50  | 0         | 1   | 22.50                    | 21.92                          | 1.143          | 0.02             | 0.150                  | 0.171                |
| L92      | LTE B66 | QPSK20M | Left Tilted   | 132572 | 50  | 0         | 1   | 22.50                    | 21.92                          | 1.143          | 0.04             | 0.136                  | 0.155                |
| L97      | LTE B66 | QPSK20M | Right Cheek   | 132572 | 1   | 0         | 2   | 23.50                    | 23.42                          | 1.019          | 0.08             | 0.164                  | 0.167                |

| Plot No. | Band           | Data Rate | Test Position | Ch. | Duty Cycle % | Max. Tune-up Power (dBm) | Measured Conducted Power (dBm) | Scaling Factor | Power Drift (dB) | Measured SAR-1g (W/kg) | Scaled SAR-1g (W/kg) |
|----------|----------------|-----------|---------------|-----|--------------|--------------------------|--------------------------------|----------------|------------------|------------------------|----------------------|
| W01      | 802.11ax HE40  | HE0       | Right Cheek   | 6   | 99.55%       | 18.5                     | 18.02                          | 1.117          | 0.02             | 0.138                  | 0.155                |
| W02      | 802.11ax HE40  | HE0       | Right Tilted  | 6   | 99.55%       | 18.5                     | 18.02                          | 1.117          | 0.06             | 0.068                  | 0.076                |
| W03      | 802.11ax HE40  | HE0       | Left Cheek    | 6   | 99.55%       | 18.5                     | 18.02                          | 1.117          | -0.04            | <b>0.247</b>           | <b>0.277</b>         |
| W04      | 802.11ax HE40  | HE0       | Left Tilted   | 6   | 99.55%       | 18.5                     | 18.02                          | 1.117          | -0.08            | 0.122                  | 0.137                |
| W07      | 802.11ac VHT20 | MCS0      | Right Cheek   | 48  | 97.09%       | 11.5                     | 11.11                          | 1.076          | 0.03             | 0.110                  | 0.124                |
| W08      | 802.11ac VHT20 | MCS0      | Right Tilted  | 48  | 97.09%       | 11.5                     | 11.11                          | 1.076          | 0.04             | 0.080                  | 0.090                |
| W09      | 802.11ac VHT20 | MCS0      | Left Cheek    | 48  | 97.09%       | 11.5                     | 11.11                          | 1.076          | 0.01             | <b>0.246</b>           | <b>0.277</b>         |
| W10      | 802.11ac VHT20 | MCS0      | Left Tilted   | 48  | 97.09%       | 11.5                     | 11.11                          | 1.076          | 0.05             | 0.123                  | 0.139                |
| W14      | 802.11ax HE20  | HE0       | Right Cheek   | 165 | 97.09%       | 9.5                      | 9.27                           | 1.094          | 0.02             | 0.081                  | 0.088                |
| W15      | 802.11ax HE20  | HE0       | Right Tilted  | 165 | 97.09%       | 9.5                      | 9.27                           | 1.094          | 0.05             | 0.023                  | 0.025                |
| W16      | 802.11ax HE20  | HE0       | Left Cheek    | 165 | 97.09%       | 9.5                      | 9.27                           | 1.094          | 0.01             | <b>0.114</b>           | <b>0.124</b>         |
| W17      | 802.11ax HE20  | HE0       | Left Tilted   | 165 | 97.09%       | 9.5                      | 9.27                           | 1.094          | 0.07             | 0.089                  | 0.097                |
| B01      | BLE            | 2M        | Right Cheek   | 0   | 85.62%       | 1.5                      | 1.18                           | 1.076          | 0.02             | 0.055                  | 0.069                |
| B02      | BLE            | 2M        | Right Tilted  | 0   | 85.62%       | 1.5                      | 1.18                           | 1.076          | 0.02             | 0.013                  | 0.016                |
| B03      | BLE            | 2M        | Left Cheek    | 0   | 85.62%       | 1.5                      | 1.18                           | 1.076          | 0.04             | <b>0.088</b>           | <b>0.111</b>         |
| B04      | BLE            | 2M        | Left Tilted   | 0   | 85.62%       | 1.5                      | 1.18                           | 1.076          | 0.01             | 0.051                  | 0.064                |

**8.3.3.SAR Results for Body-worn Exposure Condition (Separation Distance is 0.5 cm Gap)**

| Plot No. | Band     | Mode     | Test Position         | Separation Distance (cm) | Ch.  | SIM | Max. Tune-up Power (dBm) | Measured Conducted Power (dBm) | Scaling Factor | Power Drift (dB) | Measured SAR-1g (W/kg) | Scaled SAR-1g (W/kg) |
|----------|----------|----------|-----------------------|--------------------------|------|-----|--------------------------|--------------------------------|----------------|------------------|------------------------|----------------------|
| G17      | GSM 850  | GPRS2TX  | Front Face            | 0.5                      | 251  | 1   | 31                       | 30.75                          | 1.059          | 0.07             | 0.164                  | 0.174                |
| G18      | GSM 850  | GPRS2TX  | Rear Face             | 0.5                      | 251  | 1   | 31                       | 30.75                          | 1.059          | 0.06             | 0.177                  | 0.187                |
| G19      | GSM 850  | GPRS2TX  | Left Side             | 0.5                      | 251  | 1   | 31                       | 30.75                          | 1.059          | 0.02             | 0.142                  | 0.150                |
| G20      | GSM 850  | GPRS2TX  | Right Side            | 0.5                      | 251  | 1   | 31                       | 30.75                          | 1.059          | 0.03             | 0.138                  | 0.146                |
| G21      | GSM 850  | GPRS2TX  | Top Side              | 0.5                      | 251  | 1   | 31                       | 30.75                          | 1.059          | 0.07             | 0.089                  | 0.094                |
| G22      | GSM 850  | GPRS2TX  | Bottom Side           | 0.5                      | 251  | 1   | 31                       | 30.75                          | 1.059          | 0.08             | 0.756                  | 0.801                |
| G23      | GSM 850  | GPRS2TX  | Bottom Side           | 0.5                      | 128  | 1   | 31                       | 30.46                          | 1.132          | 0.01             | 0.647                  | 0.733                |
| G24      | GSM 850  | GPRS2TX  | Bottom Side           | 0.5                      | 190  | 1   | 31                       | 30.39                          | 1.151          | 0.04             | <b>0.765</b>           | <b>0.880</b>         |
| G25      | GSM 850  | GPRS2TX  | Bottom Side           | 0.5                      | 190  | 1   | 31                       | 30.39                          | 1.151          | 0.03             | 0.686                  | 0.789                |
| G26      | GSM 850  | GPRS2TX  | Bottom Side(Repeated) | 0.5                      | 190  | 2   | 31                       | 30.39                          | 1.151          | 0.03             | 0.562                  | 0.647                |
| G28      | GSM 1900 | GPRS2TX  | Front Face            | 0.5                      | 512  | 1   | 26.5                     | 26.32                          | 1.042          | 0.09             | 0.261                  | 0.272                |
| G29      | GSM 1900 | GPRS2TX  | Rear Face             | 0.5                      | 512  | 1   | 26.5                     | 26.32                          | 1.042          | 0.06             | 0.217                  | 0.226                |
| G30      | GSM 1900 | GPRS2TX  | Left Side             | 0.5                      | 512  | 1   | 26.5                     | 26.32                          | 1.042          | 0.03             | 0.134                  | 0.140                |
| G31      | GSM 1900 | GPRS2TX  | Right Side            | 0.5                      | 512  | 1   | 26.5                     | 26.32                          | 1.042          | 0.04             | 0.120                  | 0.125                |
| G32      | GSM 1900 | GPRS2TX  | Top Side              | 0.5                      | 512  | 1   | 26.5                     | 26.32                          | 1.042          | 0.01             | 0.071                  | 0.074                |
| G33      | GSM 1900 | GPRS2TX  | Bottom Side           | 0.5                      | 512  | 1   | 26.5                     | 26.32                          | 1.042          | 0.08             | <b>0.464</b>           | <b>0.484</b>         |
| G34      | GSM 1900 | GPRS2TX  | Bottom Side           | 0.5                      | 512  | 2   | 26.5                     | 26.32                          | 1.042          | 0.08             | 0.323                  | 0.337                |
| U33      | UMTS B2  | RMC12.2K | Front Face            | 0.5                      | 9400 | 1   | 22.5                     | 22.41                          | 1.021          | 0.09             | 0.452                  | 0.461                |
| U34      | UMTS B2  | RMC12.2K | Rear Face             | 0.5                      | 9400 | 1   | 22.5                     | 22.41                          | 1.021          | 0.01             | 0.431                  | 0.440                |
| U35      | UMTS B2  | RMC12.2K | Left Side             | 0.5                      | 9400 | 1   | 22.5                     | 22.41                          | 1.021          | 0.03             | 0.272                  | 0.278                |
| U36      | UMTS B2  | RMC12.2K | Right Side            | 0.5                      | 9400 | 1   | 22.5                     | 22.41                          | 1.021          | 0.07             | 0.221                  | 0.226                |
| U37      | UMTS B2  | RMC12.2K | Top Side              | 0.5                      | 9400 | 1   | 22.5                     | 22.41                          | 1.021          | 0.08             | 0.084                  | 0.086                |
| U38      | UMTS B2  | RMC12.2K | Bottom Side           | 0.5                      | 9400 | 1   | 22.5                     | 22.41                          | 1.021          | 0.07             | <b>0.692</b>           | <b>0.706</b>         |
| U39      | UMTS B2  | RMC12.2K | Bottom Side           | 0.5                      | 9400 | 2   | 22.5                     | 22.41                          | 1.021          | 0.07             | 0.422                  | 0.431                |
| U44      | UMTS B4  | RMC12.2K | Front Face            | 0.5                      | 1312 | 1   | 23                       | 22.66                          | 1.081          | 0.08             | 0.651                  | 0.704                |
| U45      | UMTS B4  | RMC12.2K | Rear Face             | 0.5                      | 1312 | 1   | 23                       | 22.66                          | 1.081          | 0.07             | 0.611                  | 0.661                |
| U46      | UMTS B4  | RMC12.2K | Left Side             | 0.5                      | 1312 | 1   | 23                       | 22.66                          | 1.081          | 0.01             | 0.452                  | 0.489                |
| U47      | UMTS B4  | RMC12.2K | Right Side            | 0.5                      | 1312 | 1   | 23                       | 22.66                          | 1.081          | 0.03             | 0.411                  | 0.444                |
| U48      | UMTS B4  | RMC12.2K | Top Side              | 0.5                      | 1312 | 1   | 23                       | 22.66                          | 1.081          | 0.07             | 0.211                  | 0.228                |
| U49      | UMTS B4  | RMC12.2K | Bottom Side           | 0.5                      | 1312 | 1   | 23                       | 22.66                          | 1.081          | 0.02             | 0.790                  | 0.854                |
| U50      | UMTS B4  | RMC12.2K | Bottom Side           | 0.5                      | 1413 | 1   | 23                       | 22.64                          | 1.086          | 0.09             | 0.784                  | 0.852                |
| U51      | UMTS B4  | RMC12.2K | Bottom Side           | 0.5                      | 1513 | 1   | 23                       | 22.6                           | <b>1.096</b>   | 0.01             | <b>0.803</b>           | <b>0.880</b>         |
| U52      | UMTS B4  | RMC12.2K | Bottom Side           | 0.5                      | 1513 | 1   | 23                       | 22.6                           | 1.096          | 0.06             | 0.775                  | 0.850                |
| U53      | UMTS B4  | RMC12.2K | Bottom Side(Repeated) | 0.5                      | 1513 | 2   | 23                       | 22.6                           | 1.096          | 0.02             | 0.721                  | 0.791                |
| U55      | UMTS B5  | RMC12.2K | Front Face            | 0.5                      | 4182 | 1   | 23                       | 22.81                          | 1.045          | 0.01             | 0.188                  | 0.196                |
| U56      | UMTS B5  | RMC12.2K | Rear Face             | 0.5                      | 4182 | 1   | 23                       | 22.81                          | 1.045          | 0.04             | 0.203                  | 0.212                |
| U57      | UMTS B5  | RMC12.2K | Left Side             | 0.5                      | 4182 | 1   | 23                       | 22.81                          | 1.045          | 0.07             | 0.085                  | 0.089                |
| U58      | UMTS B5  | RMC12.2K | Right Side            | 0.5                      | 4182 | 1   | 23                       | 22.81                          | 1.045          | 0.02             | 0.082                  | 0.086                |
| U59      | UMTS B5  | RMC12.2K | Top Side              | 0.5                      | 4182 | 1   | 23                       | 22.81                          | 1.045          | 0.09             | 0.043                  | 0.045                |
| U60      | UMTS B5  | RMC12.2K | Bottom Side           | 0.5                      | 4182 | 1   | 23                       | 22.81                          | <b>1.045</b>   | 0.06             | <b>0.677</b>           | <b>0.707</b>         |
| U63      | UMTS B5  | RMC12.2K | Bottom Side           | 0.5                      | 4182 | 2   | 23                       | 22.81                          | 1.045          | 0.03             | 0.647                  | 0.676                |

| Plot No. | Band    | Mode    | Test Position | Separation Distance (cm) | Ch.   | RB# | RB Offset | SIM | Max. Tune-up Power (dBm) | Measured Conducted Power (dBm) | Scaling Factor | Power Drift (dB) | Measured SAR-1g (W/kg) | Scaled SAR-1g (W/kg) |
|----------|---------|---------|---------------|--------------------------|-------|-----|-----------|-----|--------------------------|--------------------------------|----------------|------------------|------------------------|----------------------|
| L99      | LTE B2  | QPSK20M | Front Face    | 0.5                      | 18900 | 1   | 99        | 1   | 23.00                    | 22.95                          | 1.012          | 0.06             | 0.452                  | 0.457                |
| L100     | LTE B2  | QPSK20M | Rear Face     | 0.5                      | 18900 | 1   | 99        | 1   | 23.00                    | 22.95                          | 1.012          | 0.09             | 0.394                  | 0.399                |
| L101     | LTE B2  | QPSK20M | Left Side     | 0.5                      | 18900 | 1   | 99        | 1   | 23.00                    | 22.95                          | 1.012          | 0.04             | 0.426                  | 0.431                |
| L102     | LTE B2  | QPSK20M | Right Side    | 0.5                      | 18900 | 1   | 99        | 1   | 23.00                    | 22.95                          | 1.012          | 0.09             | 0.119                  | 0.120                |
| L103     | LTE B2  | QPSK20M | Top Side      | 0.5                      | 18900 | 1   | 99        | 1   | 23.00                    | 22.95                          | 1.012          | 0.05             | 0.092                  | 0.093                |
| L104     | LTE B2  | QPSK20M | Bottom Side   | 0.5                      | 18900 | 1   | 99        | 1   | 23.00                    | 22.95                          | 1.012          | 0.01             | <b>0.545</b>           | <b>0.551</b>         |
| L105     | LTE B2  | QPSK20M | Front Face    | 0.5                      | 18900 | 50  | 50        | 1   | 22.00                    | 21.83                          | 1.040          | 0.05             | 0.351                  | 0.365                |
| L106     | LTE B2  | QPSK20M | Rear Face     | 0.5                      | 18900 | 50  | 50        | 1   | 22.00                    | 21.83                          | 1.040          | 0.05             | 0.316                  | 0.329                |
| L107     | LTE B2  | QPSK20M | Left Side     | 0.5                      | 18900 | 50  | 50        | 1   | 22.00                    | 21.83                          | 1.040          | 0.02             | 0.245                  | 0.255                |
| L108     | LTE B2  | QPSK20M | Right Side    | 0.5                      | 18900 | 50  | 50        | 1   | 22.00                    | 21.83                          | 1.040          | 0.08             | 0.216                  | 0.225                |
| L109     | LTE B2  | QPSK20M | Top Side      | 0.5                      | 18900 | 50  | 50        | 1   | 22.00                    | 21.83                          | 1.040          | 0.04             | 0.094                  | 0.098                |
| L110     | LTE B2  | QPSK20M | Bottom Side   | 0.5                      | 18900 | 50  | 50        | 1   | 22.00                    | 21.83                          | 1.040          | -0.04            | 0.429                  | 0.446                |
| L113     | LTE B2  | QPSK20M | Bottom Side   | 0.5                      | 18900 | 1   | 99        | 2   | 23.00                    | 22.95                          | 1.012          | 0.05             | 0.431                  | 0.436                |
| L116     | LTE B4  | QPSK20M | Front Face    | 0.5                      | 20300 | 1   | 99        | 1   | 24.00                    | 23.6                           | 1.096          | 0.09             | 0.437                  | 0.479                |
| L117     | LTE B4  | QPSK20M | Rear Face     | 0.5                      | 20300 | 1   | 99        | 1   | 24.00                    | 23.6                           | 1.096          | 0.04             | 0.428                  | 0.469                |
| L118     | LTE B4  | QPSK20M | Left Side     | 0.5                      | 20300 | 1   | 99        | 1   | 24.00                    | 23.6                           | 1.096          | -0.01            | 0.361                  | 0.396                |
| L119     | LTE B4  | QPSK20M | Right Side    | 0.5                      | 20300 | 1   | 99        | 1   | 24.00                    | 23.6                           | 1.096          | 0.02             | 0.353                  | 0.387                |
| L120     | LTE B4  | QPSK20M | Top Side      | 0.5                      | 20300 | 1   | 99        | 1   | 24.00                    | 23.6                           | 1.096          | 0.02             | 0.184                  | 0.202                |
| L121     | LTE B4  | QPSK20M | Bottom Side   | 0.5                      | 20300 | 1   | 99        | 1   | 24.00                    | 23.6                           | 1.096          | 0.04             | <b>0.635</b>           | <b>0.696</b>         |
| L122     | LTE B4  | QPSK20M | Front Face    | 0.5                      | 20300 | 50  | 50        | 1   | 23.00                    | 22.39                          | 1.151          | 0.01             | 0.294                  | 0.338                |
| L123     | LTE B4  | QPSK20M | Rear Face     | 0.5                      | 20300 | 50  | 50        | 1   | 23.00                    | 22.39                          | 1.151          | 0.06             | 0.264                  | 0.304                |
| L124     | LTE B4  | QPSK20M | Left Side     | 0.5                      | 20300 | 50  | 50        | 1   | 23.00                    | 22.39                          | 1.151          | 0.06             | 0.237                  | 0.273                |
| L125     | LTE B4  | QPSK20M | Right Side    | 0.5                      | 20300 | 50  | 50        | 1   | 23.00                    | 22.39                          | 1.151          | 0.05             | 0.215                  | 0.247                |
| L126     | LTE B4  | QPSK20M | Top Side      | 0.5                      | 20300 | 50  | 50        | 1   | 23.00                    | 22.39                          | 1.151          | 0.05             | 0.084                  | 0.097                |
| L127     | LTE B4  | QPSK20M | Bottom Side   | 0.5                      | 20300 | 50  | 50        | 1   | 23.00                    | 22.39                          | 1.151          | 0.02             | 0.490                  | 0.564                |
| L131     | LTE B4  | QPSK20M | Bottom Side   | 0.5                      | 20300 | 1   | 99        | 2   | 24.00                    | 23.6                           | 1.096          | 0.02             | 0.615                  | 0.674                |
| L133     | LTE B5  | QPSK10M | Front Face    | 0.5                      | 20450 | 1   | 0         | 1   | 24.50                    | 24.32                          | 1.059          | 0.05             | 0.243                  | 0.257                |
| L134     | LTE B5  | QPSK10M | Rear Face     | 0.5                      | 20450 | 1   | 0         | 1   | 24.50                    | 24.32                          | 1.059          | 0.04             | 0.266                  | 0.282                |
| L135     | LTE B5  | QPSK10M | Left Side     | 0.5                      | 20450 | 1   | 0         | 1   | 24.50                    | 24.32                          | 1.059          | 0.03             | 0.070                  | 0.074                |
| L136     | LTE B5  | QPSK10M | Right Side    | 0.5                      | 20450 | 1   | 0         | 1   | 24.50                    | 24.32                          | 1.059          | 0.05             | 0.069                  | 0.073                |
| L137     | LTE B5  | QPSK10M | Top Side      | 0.5                      | 20450 | 1   | 0         | 1   | 24.50                    | 24.32                          | 1.059          | 0.06             | 0.048                  | 0.051                |
| L138     | LTE B5  | QPSK10M | Bottom Side   | 0.5                      | 20450 | 1   | 0         | 1   | 24.50                    | 24.32                          | 1.059          | 0.03             | <b>0.666</b>           | <b>0.705</b>         |
| L139     | LTE B5  | QPSK10M | Front Face    | 0.5                      | 20450 | 25  | 0         | 1   | 23.50                    | 23.15                          | 1.076          | 0.06             | 0.354                  | 0.381                |
| L140     | LTE B5  | QPSK10M | Rear Face     | 0.5                      | 20450 | 25  | 0         | 1   | 23.50                    | 23.15                          | 1.076          | 0.04             | 0.316                  | 0.340                |
| L141     | LTE B5  | QPSK10M | Left Side     | 0.5                      | 20450 | 25  | 0         | 1   | 23.50                    | 23.15                          | 1.076          | 0.08             | 0.267                  | 0.287                |
| L142     | LTE B5  | QPSK10M | Right Side    | 0.5                      | 20450 | 25  | 0         | 1   | 23.50                    | 23.15                          | 1.076          | 0.04             | 0.238                  | 0.256                |
| L143     | LTE B5  | QPSK10M | Top Side      | 0.5                      | 20450 | 25  | 0         | 1   | 23.50                    | 23.15                          | 1.076          | 0.09             | 0.094                  | 0.101                |
| L144     | LTE B5  | QPSK10M | Bottom Side   | 0.5                      | 20450 | 25  | 0         | 1   | 23.50                    | 23.15                          | 1.076          | 0.01             | 0.558                  | 0.601                |
| L148     | LTE B5  | QPSK10M | Bottom Side   | 0.5                      | 20450 | 1   | 0         | 2   | 24.50                    | 24.32                          | 1.059          | 0.05             | 0.533                  | 0.565                |
| L150     | LTE B12 | QPSK10M | Front Face    | 0.5                      | 23095 | 1   | 0         | 1   | 24.50                    | 24.09                          | 1.099          | 0.03             | 0.081                  | 0.089                |
| L151     | LTE B12 | QPSK10M | Rear Face     | 0.5                      | 23095 | 1   | 0         | 1   | 24.50                    | 24.09                          | 1.099          | 0.02             | 0.083                  | 0.092                |
| L152     | LTE B12 | QPSK10M | Left Side     | 0.5                      | 23095 | 1   | 0         | 1   | 24.50                    | 24.09                          | 1.099          | 0.07             | 0.064                  | 0.070                |
| L153     | LTE B12 | QPSK10M | Right Side    | 0.5                      | 23095 | 1   | 0         | 1   | 24.50                    | 24.09                          | 1.099          | 0.08             | 0.061                  | 0.067                |
| L154     | LTE B12 | QPSK10M | Top Side      | 0.5                      | 23095 | 1   | 0         | 1   | 24.50                    | 24.09                          | 1.099          | 0.04             | 0.027                  | 0.030                |
| L155     | LTE B12 | QPSK10M | Bottom Side   | 0.5                      | 23095 | 1   | 0         | 1   | 24.50                    | 24.09                          | 1.099          | -0.01            | <b>0.103</b>           | <b>0.113</b>         |
| L156     | LTE B12 | QPSK10M | Front Face    | 0.5                      | 23095 | 25  | 0         | 1   | 23.50                    | 23.06                          | 1.107          | 0.09             | 0.048                  | 0.053                |
| L157     | LTE B12 | QPSK10M | Rear Face     | 0.5                      | 23095 | 25  | 0         | 1   | 23.50                    | 23.06                          | 1.107          | 0.06             | 0.042                  | 0.046                |
| L158     | LTE B12 | QPSK10M | Left Side     | 0.5                      | 23095 | 25  | 0         | 1   | 23.50                    | 23.06                          | 1.107          | 0.05             | 0.027                  | 0.030                |
| L159     | LTE B12 | QPSK10M | Right Side    | 0.5                      | 23095 | 25  | 0         | 1   | 23.50                    | 23.06                          | 1.107          | 0.07             | 0.024                  | 0.027                |
| L160     | LTE B12 | QPSK10M | Top Side      | 0.5                      | 23095 | 25  | 0         | 1   | 23.50                    | 23.06                          | 1.107          | 0.05             | 0.008                  | 0.009                |
| L161     | LTE B12 | QPSK10M | Bottom Side   | 0.5                      | 23095 | 25  | 0         | 1   | 23.50                    | 23.06                          | 1.107          | 0.04             | 0.060                  | 0.067                |
| L164     | LTE B12 | QPSK10M | Bottom Side   | 0.5                      | 23095 | 1   | 0         | 2   | 24.50                    | 24.09                          | 1.099          | 0.06             | 0.064                  | 0.070                |
| L167     | LTE B25 | QPSK20M | Front Face    | 0.5                      | 26590 | 1   | 99        | 1   | 23.50                    | 23.09                          | 1.099          | 0.08             | 0.549                  | 0.603                |
| L168     | LTE B25 | QPSK20M | Rear Face     | 0.5                      | 26590 | 1   | 99        | 1   | 23.50                    | 23.09                          | 1.099          | 0.07             | 0.521                  | 0.573                |
| L169     | LTE B25 | QPSK20M | Left Side     | 0.5                      | 26590 | 1   | 99        | 1   | 23.50                    | 23.09                          | 1.099          | 0.01             | 0.472                  | 0.519                |
| L170     | LTE B25 | QPSK20M | Right Side    | 0.5                      | 26590 | 1   | 99        | 1   | 23.50                    | 23.09                          | 1.099          | 0.01             | 0.431                  | 0.474                |
| L171     | LTE B25 | QPSK20M | Top Side      | 0.5                      | 26590 | 1   | 99        | 1   | 23.50                    | 23.09                          | 1.099          | -0.05            | 0.251                  | 0.276                |
| L172     | LTE B25 | QPSK20M | Bottom Side   | 0.5                      | 26590 | 1   | 99        | 1   | 23.50                    | 23.09                          | 1.099          | 0.04             | <b>0.723</b>           | <b>0.795</b>         |
| L173     | LTE B25 | QPSK20M | Front Face    | 0.5                      | 26590 | 50  | 25        | 1   | 22.50                    | 21.92                          | 1.143          | 0.08             | 0.468                  | 0.535                |
| L174     | LTE B25 | QPSK20M | Rear Face     | 0.5                      | 26590 | 50  | 25        | 1   | 22.50                    | 21.92                          | 1.143          | -0.07            | 0.451                  | 0.515                |

|      |         |         |             |     |        |    |    |   |       |       |       |       |              |              |
|------|---------|---------|-------------|-----|--------|----|----|---|-------|-------|-------|-------|--------------|--------------|
| L175 | LTE B25 | QPSK20M | Left Side   | 0.5 | 26590  | 50 | 25 | 1 | 22.50 | 21.92 | 1.143 | 0.04  | 0.335        | 0.383        |
| L176 | LTE B25 | QPSK20M | Right Side  | 0.5 | 26590  | 50 | 25 | 1 | 22.50 | 21.92 | 1.143 | -0.04 | 0.331        | 0.378        |
| L177 | LTE B25 | QPSK20M | Top Side    | 0.5 | 26590  | 50 | 25 | 1 | 22.50 | 21.92 | 1.143 | 0.07  | 0.107        | 0.122        |
| L178 | LTE B25 | QPSK20M | Bottom Side | 0.5 | 26590  | 50 | 25 | 1 | 22.50 | 21.92 | 1.143 | 0.08  | 0.693        | 0.792        |
| L181 | LTE B25 | QPSK20M | Bottom Side | 0.5 | 26590  | 1  | 99 | 1 | 23.50 | 23.09 | 1.099 | 0.04  | 0.658        | 0.723        |
| L201 | LTE B66 | QPSK20M | Front Face  | 0.5 | 132572 | 1  | 0  | 1 | 23.50 | 23.42 | 1.019 | 0.08  | 0.588        | 0.599        |
| L202 | LTE B66 | QPSK20M | Rear Face   | 0.5 | 132572 | 1  | 0  | 1 | 23.50 | 23.42 | 1.019 | 0.01  | 0.546        | 0.556        |
| L203 | LTE B66 | QPSK20M | Left Side   | 0.5 | 132572 | 1  | 0  | 1 | 23.50 | 23.42 | 1.019 | 0.05  | 0.394        | 0.401        |
| L204 | LTE B66 | QPSK20M | Right Side  | 0.5 | 132572 | 1  | 0  | 1 | 23.50 | 23.42 | 1.019 | 0.08  | 0.376        | 0.383        |
| L205 | LTE B66 | QPSK20M | Top Side    | 0.5 | 132572 | 1  | 0  | 1 | 23.50 | 23.42 | 1.019 | 0.01  | 0.107        | 0.109        |
| L206 | LTE B66 | QPSK20M | Bottom Side | 0.5 | 132572 | 1  | 0  | 1 | 23.50 | 23.42 | 1.019 | 0.02  | <b>0.780</b> | <b>0.795</b> |
| L207 | LTE B66 | QPSK20M | Front Face  | 0.5 | 132572 | 50 | 0  | 1 | 22.50 | 21.92 | 1.143 | 0.02  | 0.395        | 0.451        |
| L208 | LTE B66 | QPSK20M | Rear Face   | 0.5 | 132572 | 50 | 0  | 1 | 22.50 | 21.92 | 1.143 | 0.01  | 0.355        | 0.406        |
| L209 | LTE B66 | QPSK20M | Left Side   | 0.5 | 132572 | 50 | 0  | 1 | 22.50 | 21.92 | 1.143 | 0.05  | 0.149        | 0.170        |
| L210 | LTE B66 | QPSK20M | Right Side  | 0.5 | 132572 | 50 | 0  | 1 | 22.50 | 21.92 | 1.143 | 0.08  | 0.122        | 0.139        |
| L211 | LTE B66 | QPSK20M | Top Side    | 0.5 | 132572 | 50 | 0  | 1 | 22.50 | 21.92 | 1.143 | 0.07  | 0.059        | 0.067        |
| L212 | LTE B66 | QPSK20M | Bottom Side | 0.5 | 132572 | 50 | 0  | 1 | 22.50 | 21.92 | 1.143 | 0.02  | 0.576        | 0.658        |
| L216 | LTE B66 | QPSK20M | Bottom Side | 0.5 | 132322 | 1  | 0  | 2 | 23.50 | 23.42 | 1.019 | 0.01  | 0.584        | 0.595        |

| Plot No. | Band           | Data Rate | Test Position | Separation Distance (cm) | Ch. | Duty Cycle % | Max. Tune-up Power (dBm) | Measured Conducted Power (dBm) | Scaling Factor | Power Drift (dB) | Measured SAR-1g (W/kg) | Scaled SAR-1g (W/kg) |
|----------|----------------|-----------|---------------|--------------------------|-----|--------------|--------------------------|--------------------------------|----------------|------------------|------------------------|----------------------|
| W20      | 802.11ax HE40  | HE0       | Front Face    | 0.5                      | 6   | 99.55%       | 18.5                     | 18.02                          | 1.117          | 0.02             | 0.425                  | 0.477                |
| W21      | 802.11ax HE40  | HE0       | Rear Face     | 0.5                      | 6   | 99.55%       | 18.5                     | 18.02                          | 1.117          | 0.01             | <b>0.519</b>           | <b>0.582</b>         |
| W22      | 802.11ax HE40  | HE0       | Left Side     | 0.5                      | 6   | 99.55%       | 18.5                     | 18.02                          | 1.117          | -0.04            | 0.087                  | 0.098                |
| W23      | 802.11ax HE40  | HE0       | Right Side    | 0.5                      | 6   | 99.55%       | 18.5                     | 18.02                          | 1.117          | -0.08            | 0.222                  | 0.249                |
| W24      | 802.11ax HE40  | HE0       | Top Side      | 0.5                      | 6   | 99.55%       | 18.5                     | 18.02                          | 1.117          | -0.08            | 0.230                  | 0.258                |
| W25      | 802.11ax HE40  | HE0       | Bottom Side   | 0.5                      | 6   | 99.55%       | 18.5                     | 18.02                          | 1.117          | -0.08            | 0.038                  | 0.043                |
| W28      | 802.11ac VHT20 | MCS0      | Front Face    | 0.5                      | 48  | 97.09%       | 11.5                     | 11.11                          | 1.094          | 0.04             | 0.218                  | 0.246                |
| W29      | 802.11ac VHT20 | MCS0      | Rear Face     | 0.5                      | 48  | 97.09%       | 11.5                     | 11.11                          | 1.094          | 0.01             | <b>0.458</b>           | <b>0.516</b>         |
| W30      | 802.11ac VHT20 | MCS0      | Left Side     | 0.5                      | 48  | 97.09%       | 11.5                     | 11.11                          | 1.094          | 0.01             | 0.262                  | 0.295                |
| W31      | 802.11ac VHT20 | MCS0      | Right Side    | 0.5                      | 48  | 97.09%       | 11.5                     | 11.11                          | 1.094          | -0.04            | 0.214                  | 0.241                |
| W32      | 802.11ac VHT20 | MCS0      | Top Side      | 0.5                      | 48  | 97.09%       | 11.5                     | 11.11                          | 1.094          | -0.08            | 0.107                  | 0.121                |
| W33      | 802.11ac VHT20 | MCS0      | Bottom Side   | 0.5                      | 48  | 97.09%       | 11.5                     | 11.11                          | 1.094          | -0.08            | 0.009                  | 0.010                |
| W37      | 802.11ax HE20  | HE0       | Bottom Side   | 0.5                      | 165 | 97.09%       | 9.5                      | 9.27                           | 1.054          | 0.04             | 0.226                  | 0.245                |
| W38      | 802.11ax HE20  | HE0       | Front Face    | 0.5                      | 165 | 97.09%       | 9.5                      | 9.27                           | 1.054          | 0.01             | <b>0.423</b>           | <b>0.459</b>         |
| W39      | 802.11ax HE20  | HE0       | Rear Face     | 0.5                      | 165 | 97.09%       | 9.5                      | 9.27                           | 1.054          | 0.03             | 0.107                  | 0.116                |
| W40      | 802.11ax HE20  | HE0       | Left Side     | 0.5                      | 165 | 97.09%       | 9.5                      | 9.27                           | 1.054          | 0.02             | 0.112                  | 0.122                |
| W41      | 802.11ax HE20  | HE0       | Right Side    | 0.5                      | 165 | 97.09%       | 9.5                      | 9.27                           | 1.054          | 0.01             | 0.263                  | 0.286                |
| W42      | 802.11ax HE20  | HE0       | Top Side      | 0.5                      | 165 | 97.09%       | 9.5                      | 9.27                           | 1.054          | 0.08             | 0.09                   | 0.098                |
| B07      | BLE            | 2M        | Front Face    | 0.5                      | 0   | 85.62%       | 1.5                      | 1.18                           | 1.076          | 0.05             | 0.015                  | 0.019                |
| B08      | BLE            | 2M        | Rear Face     | 0.5                      | 0   | 85.62%       | 1.5                      | 1.18                           | 1.076          | 0.01             | <b>0.027</b>           | <b>0.034</b>         |
| B09      | BLE            | 2M        | Left Side     | 0.5                      | 0   | 85.62%       | 1.5                      | 1.18                           | 1.076          | 0.02             | 0.009                  | 0.011                |
| B10      | BLE            | 2M        | Right Side    | 0.5                      | 0   | 85.62%       | 1.5                      | 1.18                           | 1.076          | 0.06             | 0.008                  | 0.010                |
| B11      | BLE            | 2M        | Top Side      | 0.5                      | 0   | 85.62%       | 1.5                      | 1.18                           | 1.076          | 0.02             | 0.011                  | 0.014                |

**8.3.4.SAR Results for Hotspot Exposure Condition (Separation Distance is 1.0 cm Gap)**

| Plot No. | Band     | Mode     | Test Position         | Separation Distance (cm) | Ch.  | SIM | Max. Tune-up Power (dBm) | Measured Conducted Power (dBm) | Scaling Factor | Power Drift (dB) | Measured SAR-1g (W/kg) | Scaled SAR-1g (W/kg) |
|----------|----------|----------|-----------------------|--------------------------|------|-----|--------------------------|--------------------------------|----------------|------------------|------------------------|----------------------|
| G27      | GSM 850  | GPRS2TX  | Bottom Side (Hotspot) | 1                        | 190  | 1   | 31                       | 30.39                          | 1.151          | 0.07             | 0.270                  | 0.311                |
| G37      | GSM 1900 | GPRS2TX  | Bottom Side (Hotspot) | 1                        | 512  | 1   | 26.5                     | 26.32                          | 1.042          | 0.06             | 0.306                  | 0.319                |
| U42      | UMTS B2  | RMC12.2K | Bottom Side (Hotspot) | 1                        | 9400 | 1   | 22.5                     | 22.41                          | 1.021          | 0.07             | 0.556                  | 0.568                |
| U54      | UMTS B4  | RMC12.2K | Bottom Side (Hotspot) | 1                        | 1513 | 1   | 23                       | 22.6                           | 1.096          | 0.04             | 0.417                  | 0.457                |
| U65      | UMTS B5  | RMC12.2K | Bottom Side (Hotspot) | 1                        | 4182 | 2   | 23                       | 22.81                          | 1.045          | 0.03             | 0.379                  | 0.396                |

| Plot No. | Band    | Mode    | Test Position         | Separation Distance (cm) | Ch.    | RB# | RB Offset | SIM | Max. Tune-up Power (dBm) | Measured Conducted Power (dBm) | Scaling Factor | Power Drift (dB) | Measured SAR-1g (W/kg) | Scaled SAR-1g (W/kg) |
|----------|---------|---------|-----------------------|--------------------------|--------|-----|-----------|-----|--------------------------|--------------------------------|----------------|------------------|------------------------|----------------------|
| L 114    | LTE B2  | QPSK20M | Bottom Side (Hotspot) | 1                        | 18900  | 1   | 99        | 1   | 23.00                    | 22.95                          | 1.012          | 0.09             | 0.329                  | 0.333                |
| L 133    | LTE B4  | QPSK20M | Bottom Side (Hotspot) | 1                        | 20300  | 1   | 99        | 1   | 24.00                    | 23.6                           | 1.096          | 0.02             | 0.425                  | 0.466                |
| L 150    | LTE B5  | QPSK10M | Bottom Side (Hotspot) | 1                        | 20450  | 1   | 0         | 1   | 24.00                    | 23.75                          | 1.059          | 0.07             | 0.396                  | 0.419                |
| L 165    | LTE B12 | QPSK10M | Bottom Side (Hotspot) | 1                        | 23095  | 1   | 0         | 1   | 24.50                    | 24.09                          | 1.099          | 0.08             | 0.051                  | 0.056                |
| L 182    | LTE B25 | QPSK20M | Bottom Side (Hotspot) | 1                        | 26590  | 1   | 99        | 1   | 23.50                    | 23.09                          | 1.099          | 0.07             | 0.527                  | 0.579                |
| L 218    | LTE B66 | QPSK20M | Bottom Side (Hotspot) | 1                        | 132572 | 1   | 0         | 2   | 23.50                    | 23.42                          | 1.019          | 0.08             | 0.537                  | 0.547                |

| Plot No. | Band           | Data Rate | Test Position       | Separation Distance (cm) | Ch. | Duty Cycle % | Max. Tune-up Power (dBm) | Measured Conducted Power (dBm) | Scaling Factor | Power Drift (dB) | Measured SAR-1g (W/kg) | Scaled SAR-1g (W/kg) |
|----------|----------------|-----------|---------------------|--------------------------|-----|--------------|--------------------------|--------------------------------|----------------|------------------|------------------------|----------------------|
| W28      | 802.11ax HE40  | HE0       | Rear Face (Hotspot) | 1                        | 3   | 99.55%       | 18.5                     | 18.02                          | 1.117          | -0.08            | 0.195                  | 0.219                |
| W34      | 802.11ac VHT20 | MCS0      | Rear Face (Hotspot) | 1                        | 48  | 97.09%       | 11.5                     | 11.11                          | 1.094          | 0.01             | 0.228                  | 0.257                |
| W45      | 802.11ax HE20  | HE0       | Rear Face (Hotspot) | 1                        | 149 | 97.09%       | 9.5                      | 9.27                           | 1.054          | 0.01             | 0.108                  | 0.117                |

**8.3.5.SAR Measurement Variability**

According to KDB 865664 D01, SAR measurement variability was assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. Alternatively, if the highest measured SAR for both head and body tissue-equivalent media are  $\leq 1.45$  W/kg and the ratio of these highest SAR values, i.e., largest divided by smallest value, is  $\leq 1.10$ , the highest SAR configuration for either head or body tissue-equivalent medium may be used to perform the repeated measurement. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

### 8.3.6. Simultaneous Multi-band Transmission Evaluation

#### <Estimated SAR Calculation>

According to KDB 447498 D01, when standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR was estimated according to following formula to result in substantially conservative SAR values of  $\leq 0.4$  W/kg to determine simultaneous transmission SAR test exclusion.

$$\text{Estimated SAR} = \frac{\text{Max. Tune up Power}_{(\text{mW})}}{\text{Min. Test Separation Distance}_{(\text{mm})}} \times \frac{\sqrt{f_{(\text{GHz})}}}{7.5}$$

If the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is used for estimated SAR calculation. When the test separation distance is  $> 50$  mm, the 0.4 W/kg is used for SAR-1g.

#### Note:

1. The separation distance is determined from the outer housing of the EUT to the user.
2. When standalone SAR testing is not required, an estimated SAR can be applied to determine simultaneous transmission SAR test exclusion.

#### <SAR Summation Analysis>

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna. When the sum of SAR<sub>1g</sub> of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR<sub>1g</sub> 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR<sub>1g</sub> is greater than the SAR limit (SAR<sub>1g</sub> 1.6 W/kg), SAR test exclusion is determined by the SPLSR.

| Position<br>SAR <sub>1g</sub> (W/Kg) | Head        |              |              |             | Body-worn          |                   |                   |                    |                  |                     |
|--------------------------------------|-------------|--------------|--------------|-------------|--------------------|-------------------|-------------------|--------------------|------------------|---------------------|
|                                      | Right Cheek | Right Tilted | Left Cheek   | Left Tilted | Front Face (0.5cm) | Rear Face (0.5cm) | Left Side (0.5cm) | Right Side (0.5cm) | Top Side (0.5cm) | Bottom Side (0.5cm) |
| GSM 850                              | 0.108       | 0.057        | 0.115        | 0.094       | 0.174              | 0.187             | 0.150             | 0.146              | 0.094            | 0.880               |
| GSM 1900                             | 0.067       | 0.056        | 0.083        | 0.068       | 0.272              | 0.226             | 0.140             | 0.125              | 0.074            | 0.484               |
| WCDMA II                             | 0.130       | 0.083        | 0.148        | 0.137       | 0.461              | 0.440             | 0.278             | 0.226              | 0.086            | 0.706               |
| WCDMA IV                             | 0.088       | 0.055        | 0.115        | 0.079       | 0.704              | 0.661             | 0.489             | 0.444              | 0.228            | 0.880               |
| WCDMA V                              | 0.064       | 0.036        | 0.090        | 0.055       | 0.196              | 0.212             | 0.089             | 0.086              | 0.045            | 0.707               |
| LTE B2                               | 0.082       | 0.082        | 0.140        | 0.093       | 0.457              | 0.399             | 0.431             | 0.120              | 0.093            | 0.551               |
| LTE B4                               | 0.167       | 0.133        | 0.209        | 0.180       | 0.479              | 0.469             | 0.396             | 0.387              | 0.202            | 0.696               |
| LTE B5                               | 0.075       | 0.056        | 0.083        | 0.058       | 0.257              | 0.282             | 0.074             | 0.073              | 0.051            | 0.705               |
| LTE B12                              | 0.013       | 0.005        | 0.017        | 0.008       | 0.089              | 0.092             | 0.070             | 0.067              | 0.030            | 0.113               |
| LTE B66                              | 0.089       | 0.070        | 0.112        | 0.091       | 0.603              | 0.573             | 0.519             | 0.474              | 0.276            | 0.795               |
| WIFI 2.4G                            | 0.155       | 0.076        | 0.277        | 0.137       | 0.477              | 0.582             | 0.098             | 0.249              | 0.258            | 0.043               |
| WIFI 5.2G                            | 0.124       | 0.090        | 0.277        | 0.139       | 0.246              | 0.516             | 0.295             | 0.241              | 0.121            | 0.010               |
| WIFI 5.8G                            | 0.088       | 0.025        | 0.124        | 0.097       | 0.245              | 0.459             | 0.116             | 0.122              | 0.286            | 0.098               |
| BT                                   | 0.069       | 0.016        | 0.111        | 0.064       | 0.019              | 0.034             | 0.011             | 0.010              | 0.014            | <0.01               |
| NFC                                  | /           | /            | /            | /           | /                  | /                 | /                 | /                  | /                | /                   |
| MAX $\Sigma$ SAR <sub>1g</sub>       | 0.333       | 0.247        | <b>0.487</b> | 0.318       | 1.181              | <b>1.243</b>      | 0.814             | 0.723              | 0.561            | 0.978               |

## Appendixes

**All attachments are integral parts of this test report. This applies especially to the following appendix:**

### **Appendix A: SAR Plots of System Verification**

The plots for system verification with largest deviation for each SAR system combination are shown as follows.

### **Appendix B: SAR Plots of SAR Measurement**

The SAR plots for highest measured SAR in each exposure configuration, wireless mode and frequency band combination, and measured SAR > 1.5 W/kg are shown as follows.

### **Appendix C: Calibration Certificate for probe and Dipole**

### **Appendix D: Photographs of EUT and setup**

## Appendix A: SAR Plots of System Verification

Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.  
2026/7/25

Date:

### System Check\_750Mhz

**DUT: Dipole 750 MHz D750V3;**

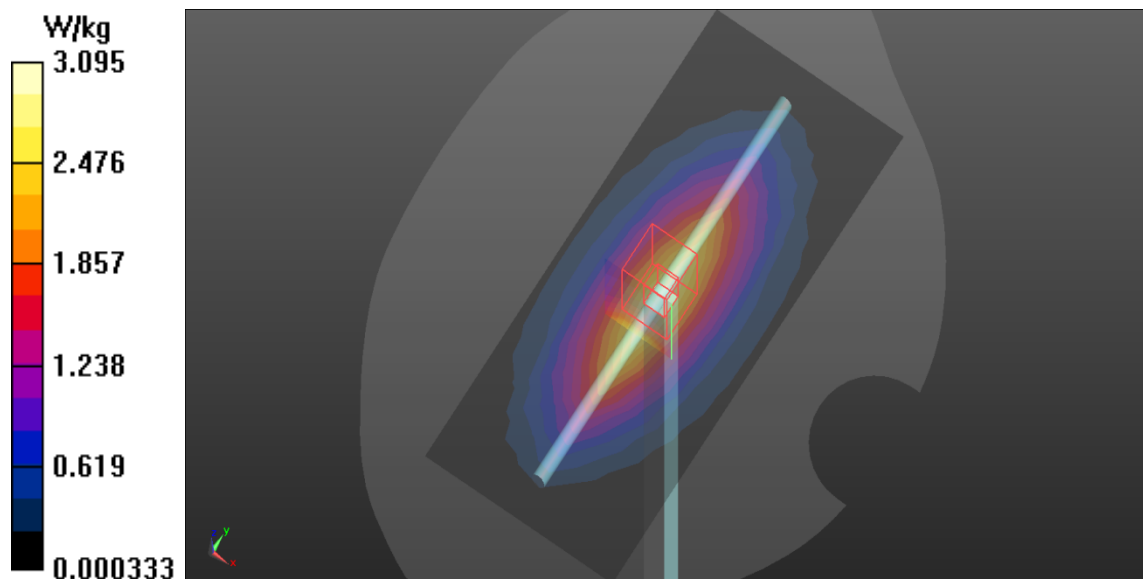
Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 750 \text{ MHz}$ ;  $\sigma = 0.916 \text{ S/m}$ ;  $\epsilon_r = 43.523$ ;  $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature :  $23.2 \text{ }^\circ\text{C}$ ; Liquid Temperature :  $22.9 \text{ }^\circ\text{C}$

DASY Configuration:

- Probe: EX3DV4 - SN7506; ConvF(9.08, 9.77, 9.02) @ 750 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Area Scan (7x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (measured) =  $2.87 \text{ W/kg}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value =  $59.32 \text{ V/m}$ ; Power Drift =  $-0.02 \text{ dB}$   
Peak SAR (extrapolated) =  $3.46 \text{ W/kg}$   
**SAR(1 g) =  $2.21 \text{ W/kg}$ ; SAR(10 g) =  $1.44 \text{ W/kg}$**   
Smallest distance from peaks to all points 3 dB below =  $16 \text{ mm}$   
Ratio of SAR at M2 to SAR at M1 =  $60\%$   
Maximum value of SAR (measured) =  $2.90 \text{ W/kg}$



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.  
2026/7/26

Date:

### System Check\_835Mhz

#### DUT: Dipole 835 MHz D835V2;

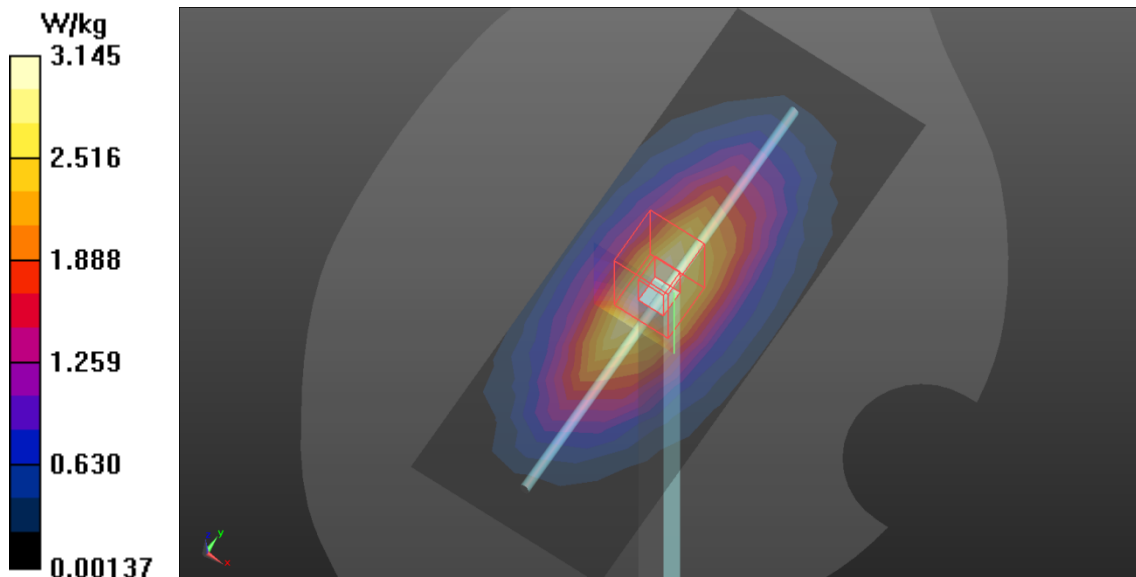
Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1  
Medium parameters used :  $f = 835 \text{ MHz}$ ;  $\sigma = 0.918 \text{ S/m}$ ;  $\epsilon_r = 43.377$ ;  $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature :  $23.1 \text{ }^\circ\text{C}$ ; Liquid Temperature :  $22.8 \text{ }^\circ\text{C}$

#### DASY Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.77, 9.44, 8.71) @ 835 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (6x14x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (measured) =  $3.02 \text{ W/kg}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value =  $60.62 \text{ V/m}$ ; Power Drift =  $0.01 \text{ dB}$   
Peak SAR (extrapolated) =  $3.88 \text{ W/kg}$   
**SAR(1 g) =  $2.36 \text{ W/kg}$ ; SAR(10 g) =  $1.53 \text{ W/kg}$**   
Smallest distance from peaks to all points 3 dB below =  $16 \text{ mm}$   
Ratio of SAR at M2 to SAR at M1 =  $61.1\%$   
Maximum value of SAR (measured) =  $3.28 \text{ W/kg}$



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.  
2026/7/29

Date:

### System Check\_835Mhz

**DUT: Dipole 835 MHz D835V2;SN:4d061;**

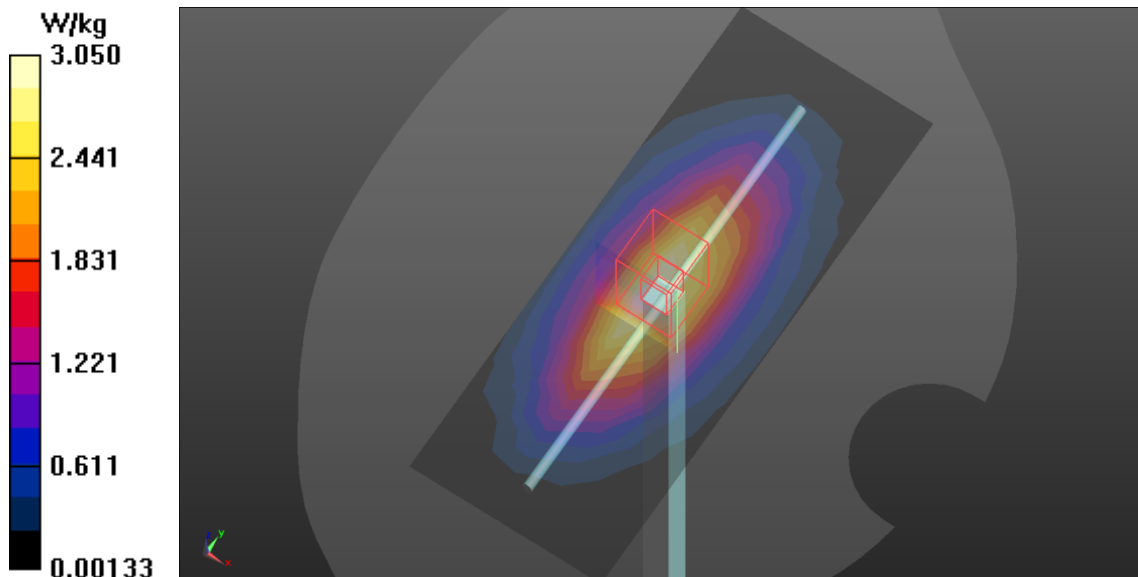
Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1  
Medium parameters used :  $f = 835 \text{ MHz}$ ;  $\sigma = 0.915 \text{ S/m}$ ;  $\epsilon_r = 43.373$ ;  $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature :  $22.6 \text{ }^\circ\text{C}$ ; Liquid Temperature :  $22.3 \text{ }^\circ\text{C}$

DASY Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.77, 9.44, 8.71) @ 835 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (6x14x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (measured) =  $3.05 \text{ W/kg}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value =  $60.62 \text{ V/m}$ ; Power Drift =  $0.01 \text{ dB}$   
Peak SAR (extrapolated) =  $3.88 \text{ W/kg}$   
**SAR(1 g) =  $2.33 \text{ W/kg}$ ; SAR(10 g) =  $1.51 \text{ W/kg}$**   
Smallest distance from peaks to all points 3 dB below =  $14 \text{ mm}$   
Ratio of SAR at M2 to SAR at M1 =  $41.1\%$   
Maximum value of SAR (measured) =  $3.31 \text{ W/kg}$



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.  
2026/7/30

Date:

### System Check\_1800Mhz\_

**DUT: Dipole 1800 MHz D1800V2;SN:2d148;**

Communication System: UID 0, CW (0); Frequency: 1800 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1800 \text{ MHz}$ ;  $\sigma = 1.418 \text{ S/m}$ ;  $\epsilon_r = 40.463$ ;  $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature :  $22.5 \text{ }^\circ\text{C}$ ; Liquid Temperature :  $22.2 \text{ }^\circ\text{C}$

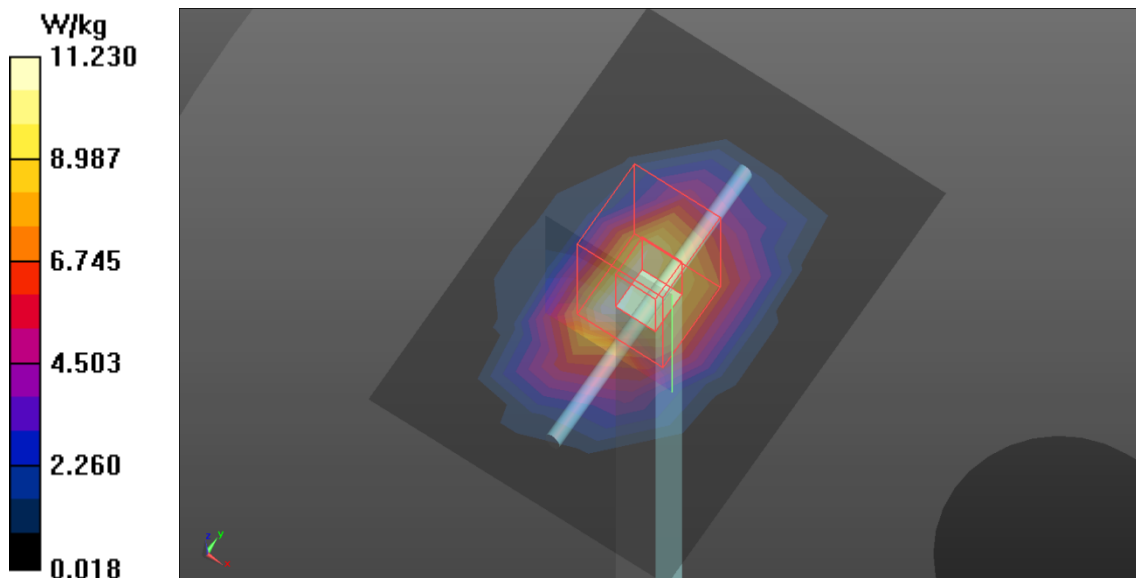
DASY Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.58, 8.16, 7.53) @ 1800 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- DMeasurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (6x8x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (measured) =  $11.2 \text{ W/kg}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value =  $107.1 \text{ V/m}$ ; Power Drift =  $-0.01 \text{ dB}$   
Peak SAR (extrapolated) =  $18.8 \text{ W/kg}$

**SAR(1 g) =  $9.87 \text{ W/kg}$ ; SAR(10 g) =  $5.19 \text{ W/kg}$**   
Smallest distance from peaks to all points 3 dB below =  $10.1 \text{ mm}$   
Ratio of SAR at M2 to SAR at M1 =  $52.6\%$   
Maximum value of SAR (measured) =  $15.6 \text{ W/kg}$



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.  
2026/8/1

Date:

### System Check\_1800Mhz

**DUT: Dipole 1800 MHz D1800V2;SN:2d148;**

Communication System: UID 0, CW (0); Frequency: 1800 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1800 \text{ MHz}$ ;  $\sigma = 1.421 \text{ S/m}$ ;  $\epsilon_r = 40.466$ ;  $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature :  $23.2 \text{ }^\circ\text{C}$ ; Liquid Temperature :  $22.9 \text{ }^\circ\text{C}$

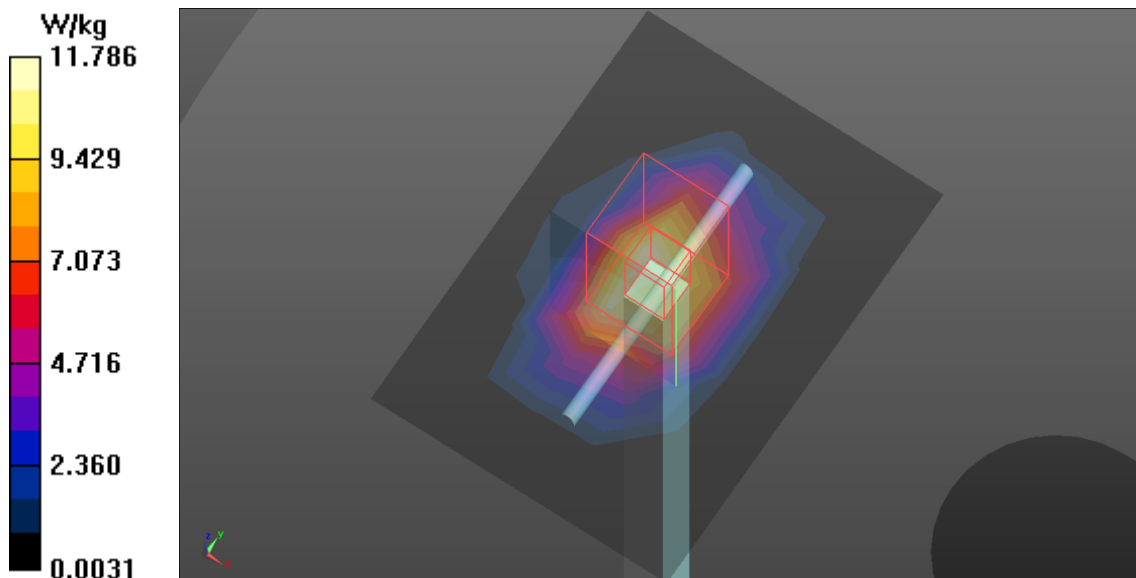
DASY Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.58, 8.16, 7.53) @ 1800 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (6x8x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (measured) =  $11.8 \text{ W/kg}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value =  $107.1 \text{ V/m}$ ; Power Drift =  $-0.01 \text{ dB}$   
Peak SAR (extrapolated) =  $18.8 \text{ W/kg}$

**SAR(1 g) =  $9.92 \text{ W/kg}$ ; SAR(10 g) =  $5.21 \text{ W/kg}$**   
Smallest distance from peaks to all points 3 dB below =  $10.1 \text{ mm}$   
Ratio of SAR at M2 to SAR at M1 =  $48.6\%$   
Maximum value of SAR (measured) =  $15.6 \text{ W/kg}$



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.  
2026/8/2

Date:

### System Check\_1900Mhz

**DUT: Dipole 1900 MHz D1900V2;SN:5d092;**

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1900 \text{ MHz}$ ;  $\sigma = 1.452 \text{ S/m}$ ;  $\epsilon_r = 40.271$ ;  $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature :  $23.3 \text{ }^\circ\text{C}$ ; Liquid Temperature :  $23.0 \text{ }^\circ\text{C}$

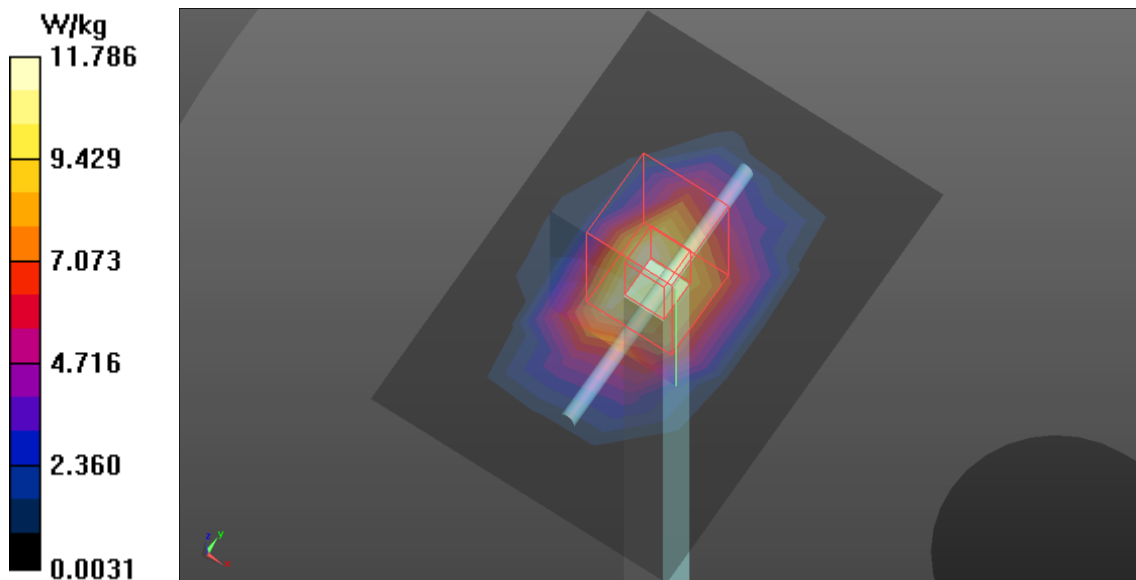
DASY Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.33, 7.89, 7.28) @ 1900 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (6x8x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (measured) =  $11.8 \text{ W/kg}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value =  $110.7 \text{ V/m}$ ; Power Drift =  $-0.03 \text{ dB}$   
Peak SAR (extrapolated) =  $18.9 \text{ W/kg}$

**SAR(1 g) =  $9.86 \text{ W/kg}$ ; SAR(10 g) =  $5.23 \text{ W/kg}$**   
Maximum value of SAR (measured) =  $15.6 \text{ W/kg}$



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.  
2026/8/3

Date:

### System Check\_1900Mhz

**DUT: Dipole 1900 MHz D1900V2;SN:5d092;**

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1900 \text{ MHz}$ ;  $\sigma = 1.458 \text{ S/m}$ ;  $\epsilon_r = 40.268$ ;  $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature :  $22.1 \text{ }^\circ\text{C}$ ; Liquid Temperature :  $21.8 \text{ }^\circ\text{C}$

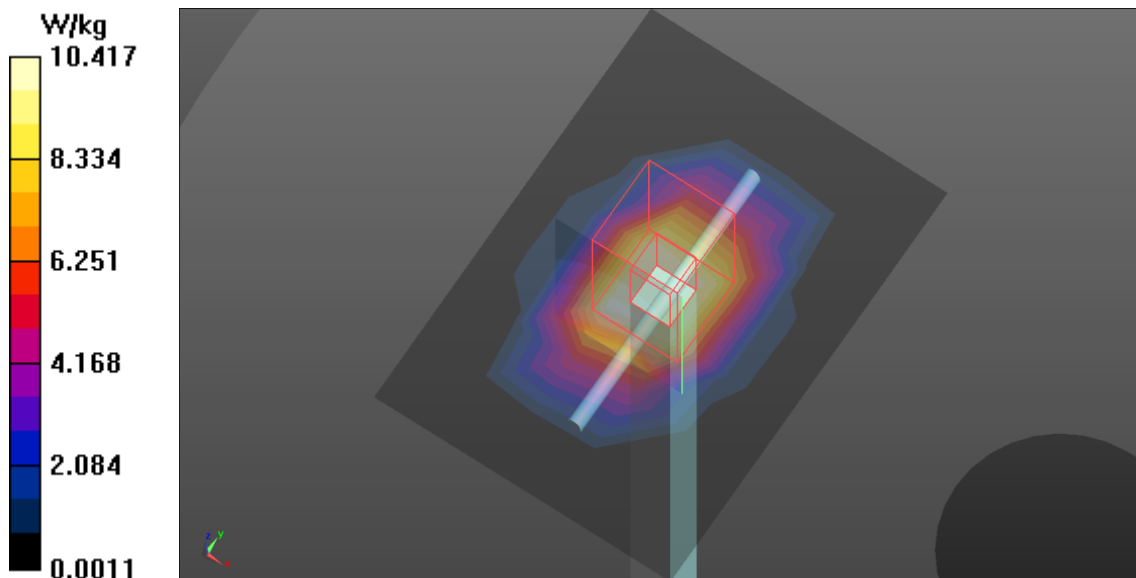
DASY Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.33, 7.89, 7.28) @ 1900 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (6x8x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (measured) =  $10.4 \text{ W/kg}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value =  $110.7 \text{ V/m}$ ; Power Drift =  $-0.04 \text{ dB}$   
Peak SAR (extrapolated) =  $18.9 \text{ W/kg}$

**SAR(1 g) =  $9.98 \text{ W/kg}$ ; SAR(10 g) =  $5.26 \text{ W/kg}$**   
Smallest distance from peaks to all points 3 dB below =  $10.1 \text{ mm}$   
Ratio of SAR at M2 to SAR at M1 =  $45.6\%$   
Maximum value of SAR (measured) =  $16.6 \text{ W/kg}$



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.  
2026/8/4

Date:

### System Check\_2450Mhz

**DUT: Dipole 2450 MHz D2450V2;**

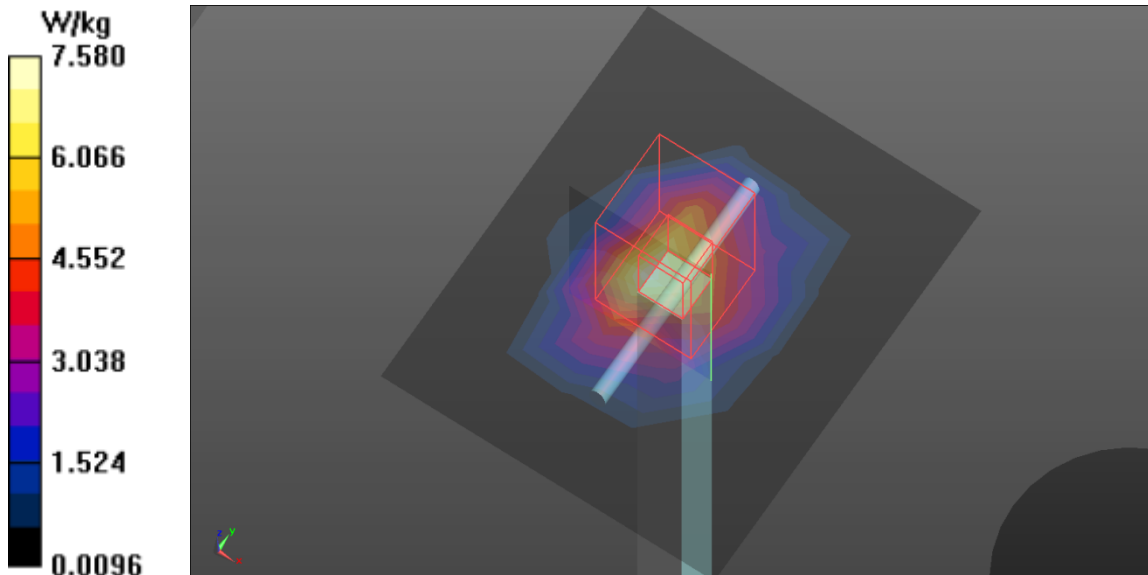
Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2450 \text{ MHz}$ ;  $\sigma = 1.839 \text{ S/m}$ ;  $\epsilon_r = 40.816$ ;  $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature :  $22.8 \text{ }^\circ\text{C}$ ; Liquid Temperature :  $22.5 \text{ }^\circ\text{C}$

DASY Configuration:

- Probe: EX3DV4 - SN7506; ConvF(6.77, 7.28, 6.72) @ 2450 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (6x7x1):** Measurement grid:  $dx=12\text{mm}$ ,  $dy=12\text{mm}$   
Maximum value of SAR (measured) =  $16.8 \text{ W/kg}$

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value =  $111.8 \text{ V/m}$ ; Power Drift =  $0.09 \text{ dB}$   
Peak SAR (extrapolated) =  $27.1 \text{ W/kg}$   
**SAR(1 g) =  $5.32 \text{ W/kg}$ ; SAR(10 g) =  $2.51 \text{ W/kg}$**   
Smallest distance from peaks to all points 3 dB below =  $12.1 \text{ mm}$   
Ratio of SAR at M2 to SAR at M1 =  $54.1\%$   
Maximum value of SAR (measured) =  $21.7 \text{ W/kg}$



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.  
2026/8/4

Date:

### System Check\_5250Mhz

#### DUT: Dipole D5GHzV2;

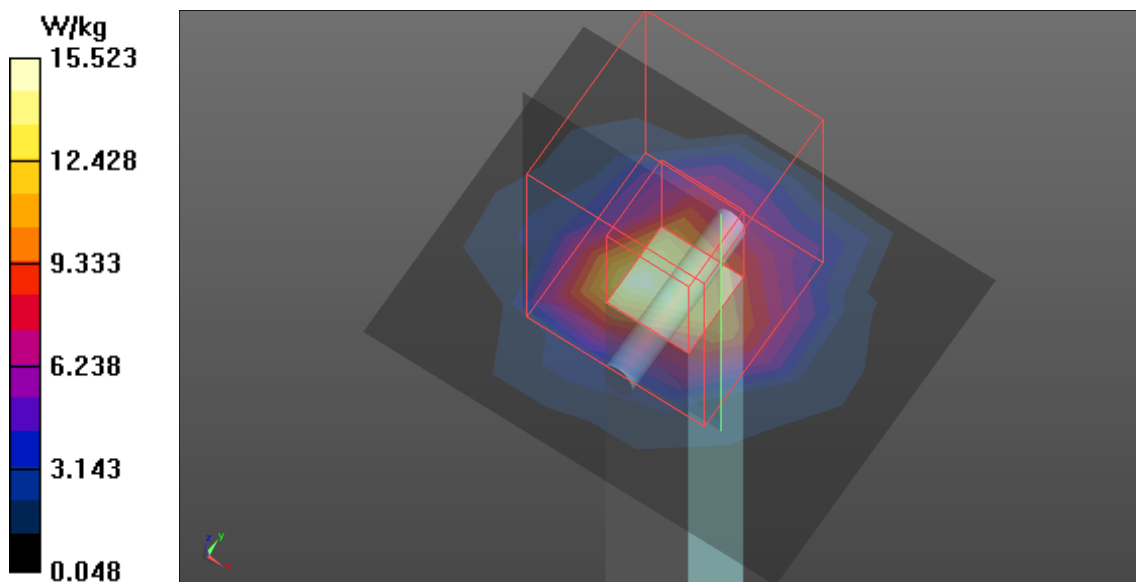
Communication System: UID 0, CW (0); Frequency: 5250 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 5250 \text{ MHz}$ ;  $\sigma = 4.575 \text{ S/m}$ ;  $\epsilon_r = 35.745$ ;  $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature :  $22.8 \text{ }^\circ\text{C}$ ; Liquid Temperature :  $22.5 \text{ }^\circ\text{C}$

#### DASY Configuration:

- Probe: EX3DV4 - SN7506; ConvF(5.18, 5.57, 5.14) @ 5250 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 23.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (6x5x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$   
Maximum value of SAR (measured) =  $15.5 \text{ W/kg}$

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$   
Reference Value =  $68.87 \text{ V/m}$ ; Power Drift =  $0.08 \text{ dB}$   
Peak SAR (extrapolated) =  $30.8 \text{ W/kg}$   
**SAR(1 g) =  $7.99 \text{ W/kg}$ ; SAR(10 g) =  $2.18 \text{ W/kg}$**   
Maximum value of SAR (measured) =  $19.8 \text{ W/kg}$



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.  
2026/8/4

Date:

### System Check\_5800Mhz

#### DUT: Dipole D5GHzV2;

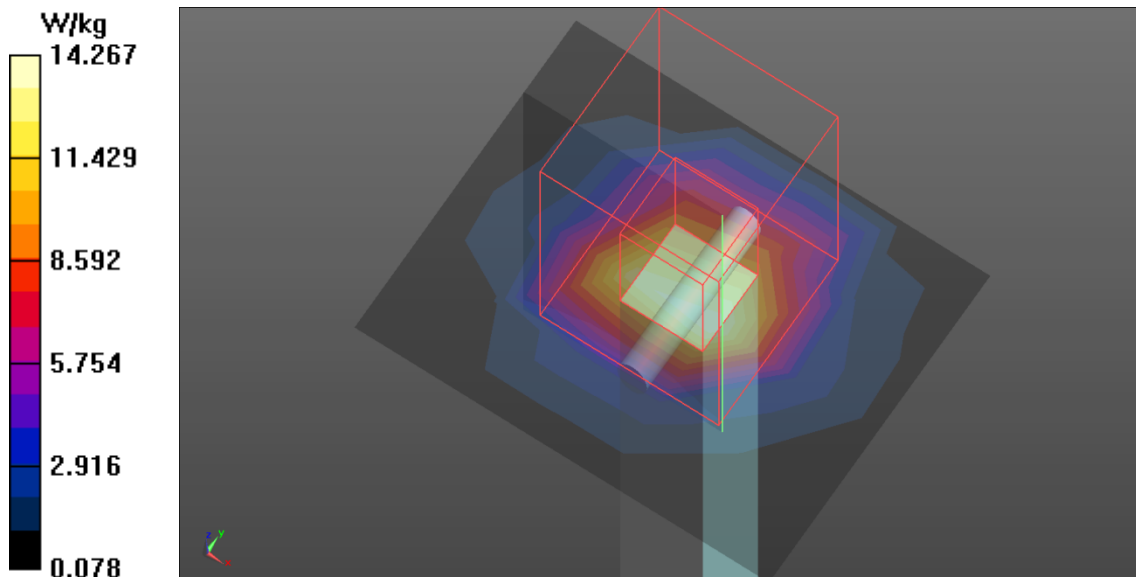
Communication System: UID 0, CW (0); Frequency: 5800 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5800 \text{ MHz}$ ;  $\sigma = 5.189 \text{ S/m}$ ;  $\epsilon_r = 34.259$ ;  $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature :  $22.8 \text{ }^\circ\text{C}$ ; Liquid Temperature :  $22.5 \text{ }^\circ\text{C}$

#### DASY Configuration:

- Probe: EX3DV4 - SN7506; ConvF(4.66, 5.02, 4.63) @ 5250 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 23.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (6x5x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$   
Maximum value of SAR (measured) =  $14.3 \text{ W/kg}$

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$   
Reference Value =  $66.73 \text{ V/m}$ ; Power Drift =  $0.07 \text{ dB}$   
Peak SAR (extrapolated) =  $34.2 \text{ W/kg}$   
**SAR(1 g) =  $7.82 \text{ W/kg}$ ; SAR(10 g) =  $2.13 \text{ W/kg}$**   
Smallest distance from peaks to all points 3 dB below =  $8.3 \text{ mm}$   
Ratio of SAR at M2 to SAR at M1 =  $46.3\%$   
Maximum value of SAR (measured) =  $20.2 \text{ W/kg}$



## Appendix B: SAR Plots of SAR Measurement

Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2026/8/4

### G01\_GSM 850\_GSM\_CH251\_Right Cheek\_Main\_SIM 1

#### DUT: Smart Phone;

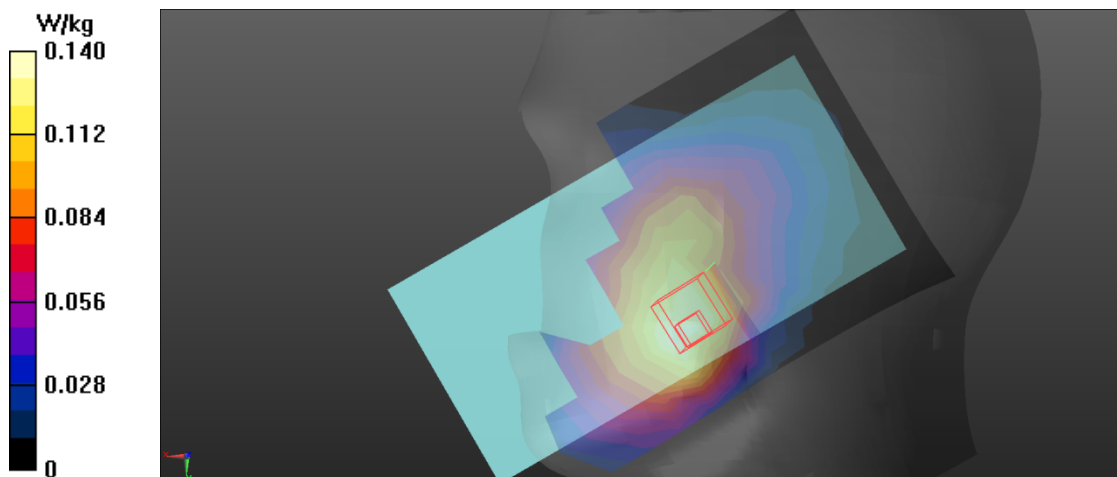
Communication System: UID 0, Generic GSM (0); Frequency: 848.6 MHz; Duty Cycle: 1:8.3  
Medium parameters used (interpolated):  $f = 848.6$  MHz;  $\sigma = 0.923$  S/m;  $\epsilon_r = 43.313$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 22.4 °C; Liquid Temperature : 22.1 °C

#### DASY Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.77, 9.44, 8.71) @ 846.8 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Area Scan (9x15x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 0.140 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm  
Reference Value = 5.579 V/m; Power Drift = -0.04 dB  
Peak SAR (extrapolated) = 0.151 W/kg  
**SAR(1 g) = 0.122 W/kg; SAR(10 g) = 0.095 W/kg**  
Smallest distance from peaks to all points 3 dB below = 20.6 mm  
Ratio of SAR at M2 to SAR at M1 = 76.7%  
Maximum value of SAR (measured) = 0.138 W/kg



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2026/8/8

### G15\_GSM 1900\_GSM\_CH512\_Left Cheek\_Main\_SIM 2

#### DUT: Smart Phone;

Communication System: UID 0, Generic GSM (0); Frequency: 1850.2 MHz; Duty Cycle: 1:8.3  
Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.423$  S/m;  $\epsilon_r = 40.379$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.3 °C; Liquid Temperature : 23.0 °C

#### DASY Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.33, 7.89, 7.28) @ 1850.2 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Area Scan (9x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 0.102 W/kg

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

Reference Value = 2.252 V/m; Power Drift = 0.04 dB

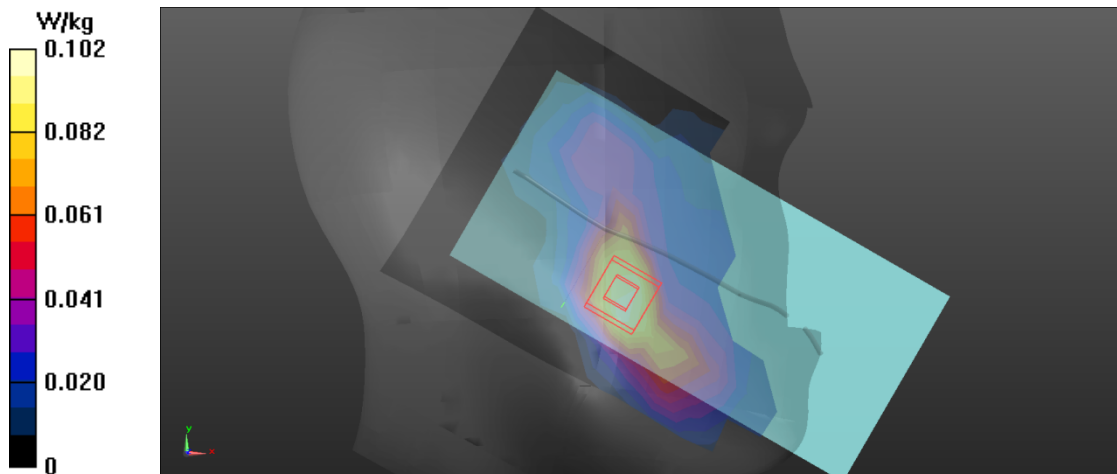
Peak SAR (extrapolated) = 0.159 W/kg

**SAR(1 g) = 0.075 W/kg; SAR(10 g) = 0.053 W/kg**

Smallest distance from peaks to all points 3 dB below = 12.2 mm

Ratio of SAR at M2 to SAR at M1 = 53.4%

Maximum value of SAR (measured) = 0.110 W/kg



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2026/8/8

#### U01\_UMTS B2\_RMC12.2K\_CH9400\_Right Cheek\_Main\_SIM 1

##### DUT: Smart Phone;

Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1880$  MHz;  $\sigma = 1.435$  S/m;  $\epsilon_r = 40.306$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.3 °C; Liquid Temperature : 23.0 °C

##### DASY Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.33, 7.89, 7.28) @ 1880 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Area Scan (9x15x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 0.0999 W/kg

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

Reference Value = 4.354 V/m; Power Drift = -0.03 dB

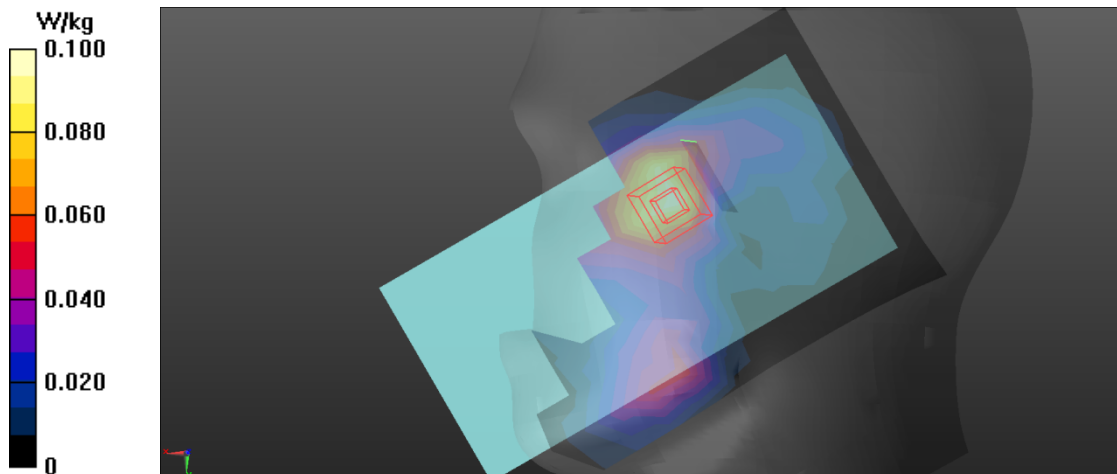
Peak SAR (extrapolated) = 0.123 W/kg

**SAR(1 g) = 0.083 W/kg; SAR(10 g) = 0.053 W/kg**

Smallest distance from peaks to all points 3 dB below = 14.5 mm

Ratio of SAR at M2 to SAR at M1 = 67%

Maximum value of SAR (measured) = 0.107 W/kg



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2026/8/6

### U09\_UMTS B4\_RMC12.2K\_CH1312\_Right Cheek\_Main\_SIM 1

#### DUT: Smart Phone;

Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1712.4 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1712.4$  MHz;  $\sigma = 1.368$  S/m;  $\epsilon_r = 40.65$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 22.5 °C; Liquid Temperature : 22.2 °C

#### DASY Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.58, 8.16, 7.53) @ 1712.4 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- DMeasurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (9x15x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 0.0556 W/kg

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

Reference Value = 1.867 V/m; Power Drift = -0.09 dB

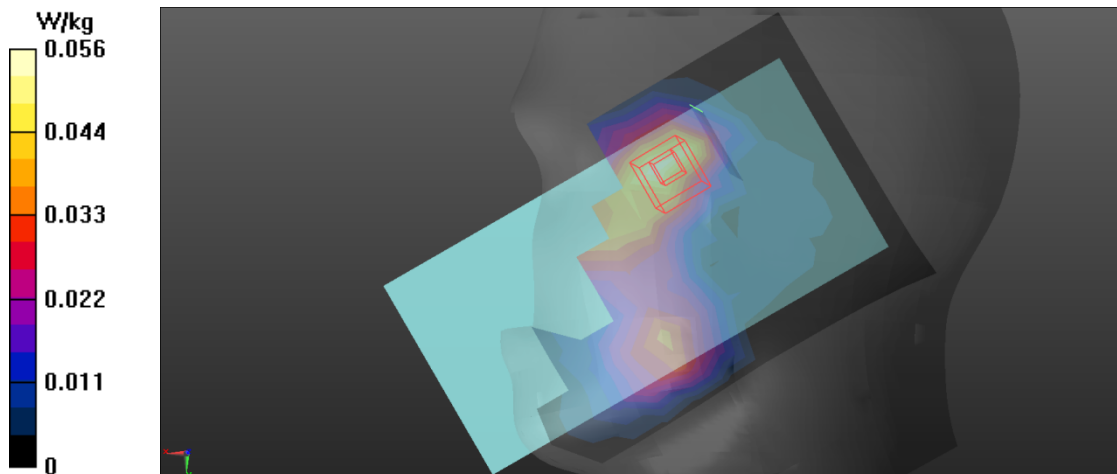
Peak SAR (extrapolated) = 0.0700 W/kg

**SAR(1 g) = 0.043 W/kg; SAR(10 g) = 0.028 W/kg**

Smallest distance from peaks to all points 3 dB below = 14.5 mm

Ratio of SAR at M2 to SAR at M1 = 65.2%

Maximum value of SAR (measured) = 0.0566 W/kg



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2026/8/4

### U17\_UMTS B5\_RMC12.2K\_CH4182\_Right Cheek\_Main\_SIM 1

#### DUT: Smart Phone;

Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.4 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.922$  S/m;  $\epsilon_r = 43.37$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 22.1 °C; Liquid Temperature : 21.8 °C

#### DASY Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.77, 9.44, 8.71) @ 836.4 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (9x15x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 0.0730 W/kg

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

Reference Value = 4.011 V/m; Power Drift = -0.06 dB

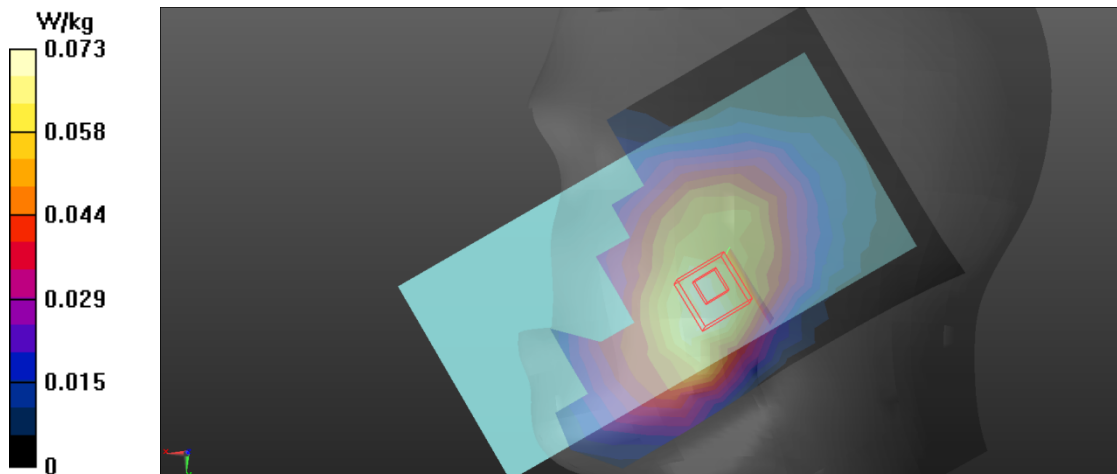
Peak SAR (extrapolated) = 0.0930 W/kg

**SAR(1 g) = 0.063 W/kg; SAR(10 g) = 0.005 W/kg**

Smallest distance from peaks to all points 3 dB below = 14 mm

Ratio of SAR at M2 to SAR at M1 = 70.1%

Maximum value of SAR (measured) = 0.0769 W/kg



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2026/8/8

**L13\_LTE B2\_QPSK20M\_CH18900\_1RB offset 99\_Right Cheek\_Main\_SIM2****DUT: Smart Phone;**

Communication System: UID 10169 - CAE, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 1880 MHz;  
Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.435$  S/m;  $\epsilon_r = 40.306$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C; Liquid Temperature : 23.0 °C

**DASY Configuration:**

- Probe: EX3DV4 - SN7506; ConvF(7.33, 7.89, 7.28) @ 1880 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

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

Maximum value of SAR (measured) = 0.130 W/kg

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

Reference Value = 4.837 V/m; Power Drift = 0.01 dB

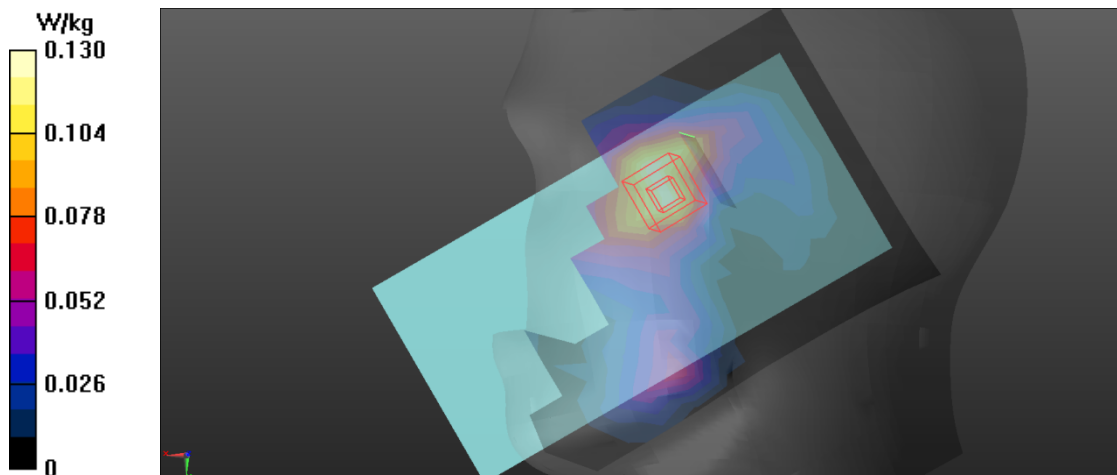
Peak SAR (extrapolated) = 0.162 W/kg

**SAR(1 g) = 0.103 W/kg; SAR(10 g) = 0.063 W/kg**

Smallest distance from peaks to all points 3 dB below = 13.7 mm

Ratio of SAR at M2 to SAR at M1 = 65.7%

Maximum value of SAR (measured) = 0.138 W/kg



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2026/8/6

**L15\_LTE B4\_QPSK20M\_CH20300\_1RB offset 99\_Right Cheek\_Main\_SIM1**

**DUT: Smart Phone;**

Communication System: UID 10169 - CAE, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 1745 MHz;  
Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1745$  MHz;  $\sigma = 1.386$  S/m;  $\epsilon_r = 40.574$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.5 °C; Liquid Temperature : 22.2 °C

**DASY Configuration:**

- Probe: EX3DV4 - SN7506; ConvF(7.58, 8.16, 7.53) @ 1745 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- DMeasurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (9x15x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 0.0602 W/kg

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

Reference Value = 3.419 V/m; Power Drift = -0.09 dB

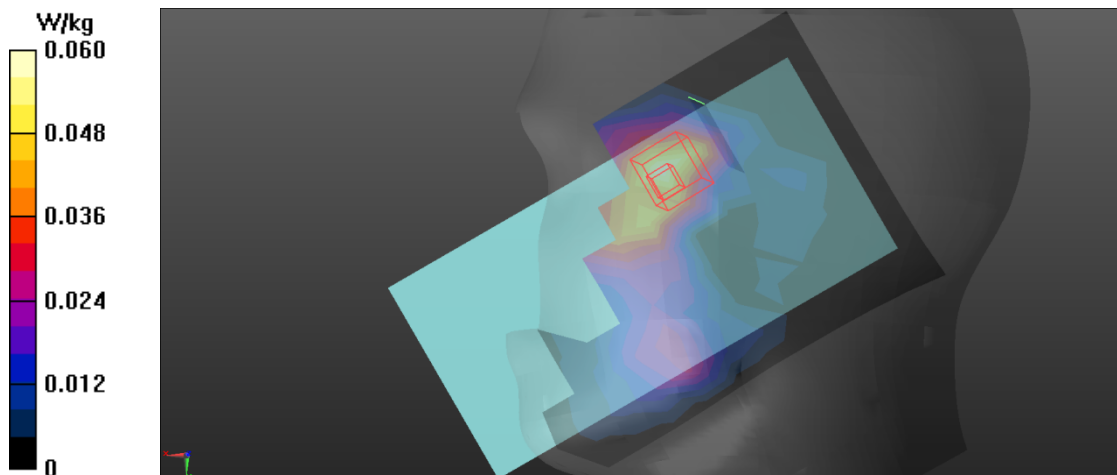
Peak SAR (extrapolated) = 0.0690 W/kg

**SAR(1 g) = 0.040 W/kg; SAR(10 g) = 0.025 W/kg**

Smallest distance from peaks to all points 3 dB below = 10.1 mm

Ratio of SAR at M2 to SAR at M1 = 68.6%

Maximum value of SAR (measured) = 0.0521 W/kg



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2026/8/4

**L29\_LTE B5\_QPSK10M\_CH20450\_1RB offset 0\_Right Cheek\_Main\_SIM1**

**DUT: Smart Phone;**

Communication System: UID 10175 - CAG, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 829 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 829 \text{ MHz}$ ;  $\sigma = 0.915 \text{ S/m}$ ;  $\epsilon_r = 43.405$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature :  $22.4 \text{ }^{\circ}\text{C}$ ; Liquid Temperature :  $22.1 \text{ }^{\circ}\text{C}$

**DASY Configuration:**

- Probe: EX3DV4 - SN7506; ConvF(8.77, 9.44, 8.71) @ 829 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (9x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (measured) =  $0.0809 \text{ W/kg}$

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

Reference Value =  $3.638 \text{ V/m}$ ; Power Drift =  $-0.05 \text{ dB}$

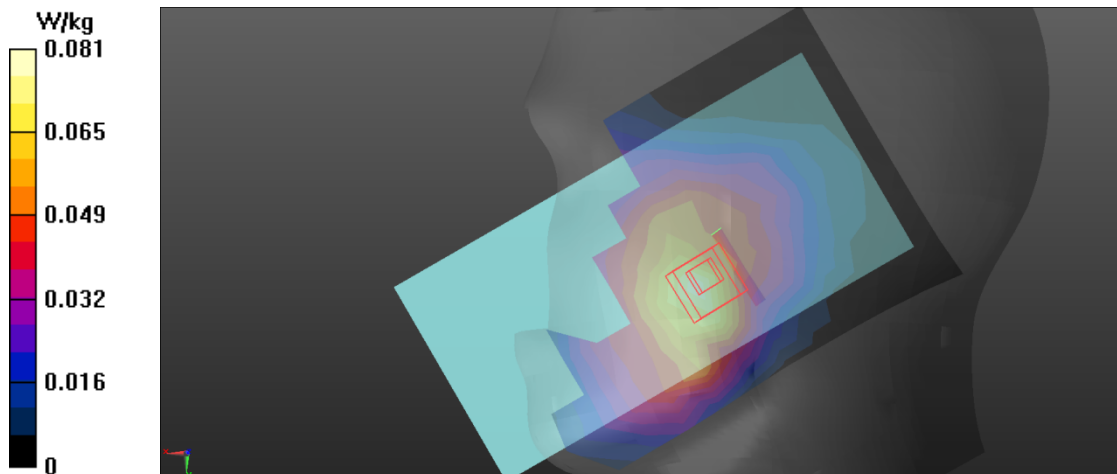
Peak SAR (extrapolated) =  $0.0900 \text{ W/kg}$

**SAR(1 g) =  $0.066 \text{ W/kg}$ ; SAR(10 g) =  $0.051 \text{ W/kg}$**

Smallest distance from peaks to all points 3 dB below =  $13.2 \text{ mm}$

Ratio of SAR at M2 to SAR at M1 =  $80.8\%$

Maximum value of SAR (measured) =  $0.0792 \text{ W/kg}$



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2026/8/3

### L55\_LTE B17\_QPSK10M\_CH23790\_1RB offset 0\_Right Cheek\_Main\_SIM2

#### DUT: Smart Phone;

Communication System: UID 10175 - CAG, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 710 MHz;  
Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 710$  MHz;  $\sigma = 0.867$  S/m;  $\epsilon_r = 43.998$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.8 °C; Liquid Temperature : 22.5 °C

#### DASY Configuration:

- Probe: EX3DV4 - SN7506; ConvF(9.08, 9.77, 9.02) @ 710 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Area Scan (9x15x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 0.0122 W/kg

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

Reference Value = 0 V/m; Power Drift = 0.03 dB

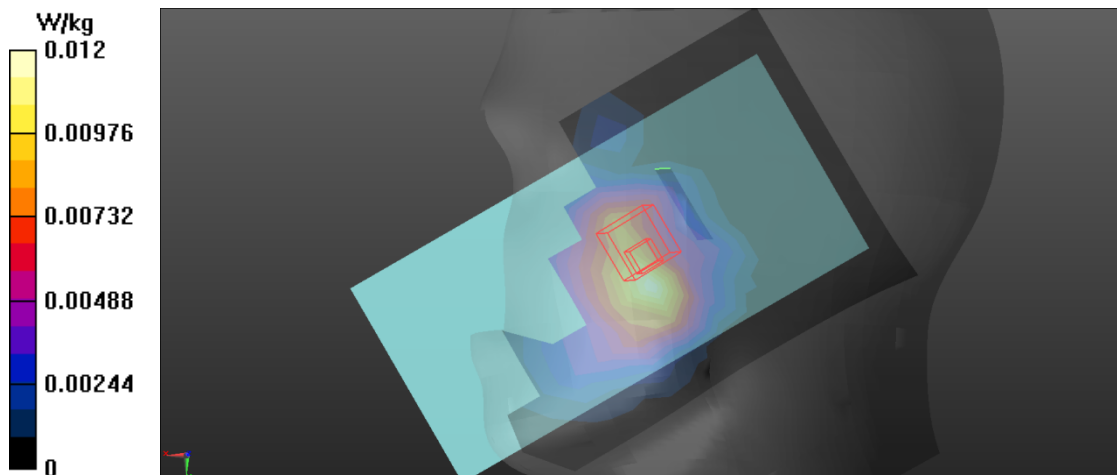
Peak SAR (extrapolated) = 0.0420 W/kg

**SAR(1 g) = 0.01 W/kg; SAR(10 g) = 0.006 W/kg**

Smallest distance from peaks to all points 3 dB below = 16.2 mm

Ratio of SAR at M2 to SAR at M1 = 78.4%

Maximum value of SAR (measured) = 0.0126 W/kg



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2026/8/8

**L57\_LTE B25\_QPSK20M\_CH26590 \_1RB offset 50\_Right Cheek\_Main\_SIM1**

**DUT: Smart Phone;**

Communication System: UID 10175 - CAG, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 1905 MHz;  
Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1905$  MHz;  $\sigma = 1.479$  S/m;  $\epsilon_r = 40.262$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C; Liquid Temperature : 23.0 °C

**DASY Configuration:**

- Probe: EX3DV4 - SN7506; ConvF(7.33, 7.89, 7.28) @ 1905 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (9x15x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 0.108 W/kg

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

Reference Value = 4.076 V/m; Power Drift = -0.09 dB

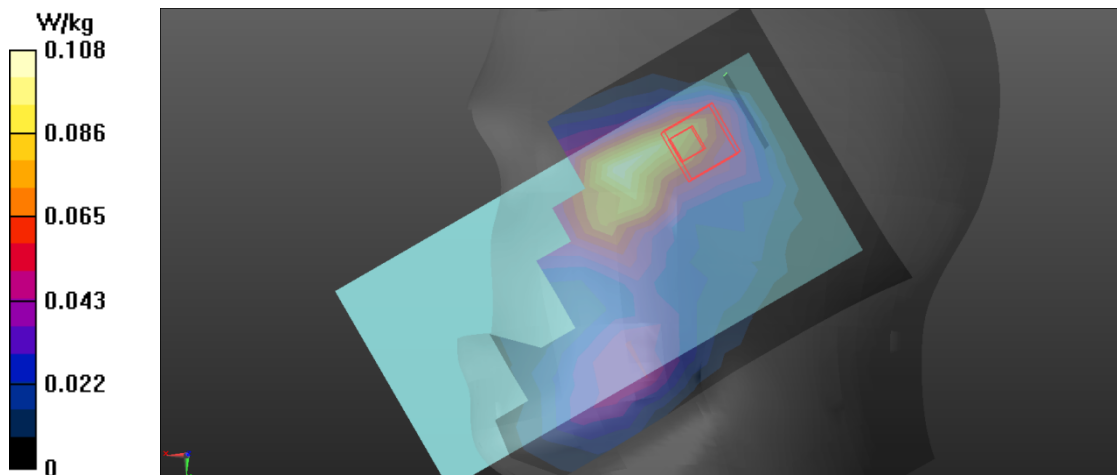
Peak SAR (extrapolated) = 0.0900 W/kg

**SAR(1 g) = 0.052 W/kg; SAR(10 g) = 0.029 W/kg**

Smallest distance from peaks to all points 3 dB below = 17.1 mm

Ratio of SAR at M2 to SAR at M1 = 57.3%

Maximum value of SAR (measured) = 0.0740 W/kg



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2026/8/6

**L85\_LTE B66\_QPSK20M\_CH132572\_1RB offset 0\_Right Cheek\_Main\_SIM1**

**DUT: Smart Phone;**

Communication System: UID 10175 - CAG, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 1770 MHz;  
Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1770$  MHz;  $\sigma = 1.401$  S/m;  $\epsilon_r = 40.523$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 22.5 °C; Liquid Temperature : 22.2 °C

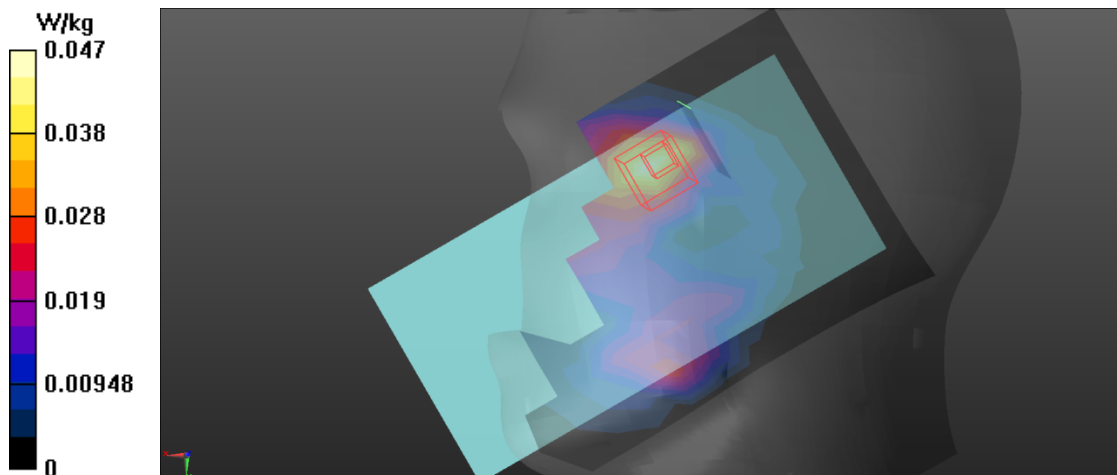
DASY Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.58, 8.16, 7.53) @ 1770 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- DMeasurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (9x15x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 0.0474 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm  
Reference Value = 0 V/m; Power Drift = -0.09 dB  
Peak SAR (extrapolated) = 0.0530 W/kg

**SAR(1 g) = 0.031 W/kg; SAR(10 g) = 0.019 W/kg**  
Smallest distance from peaks to all points 3 dB below = 10.1 mm  
Ratio of SAR at M2 to SAR at M1 = 61.2%  
Maximum value of SAR (measured) = 0.0456 W/kg



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2026/8/10

### W01\_802.11ax\_40\_CH6\_Right Cheek\_Ant\_WIFI

#### DUT: Smart Phone;

Communication System: UID 10695 - AAA, IEEE 802.11ax (40MHz, MCS0, 90pc duty cycle); Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.835$  S/m;  $\epsilon_r = 40.172$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.4 °C; Liquid Temperature : 22.1 °C

#### DASY Configuration:

- Probe: EX3DV4 - SN7506; ConvF(6.77, 7.28, 6.72) @ 2437 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (9x15x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm  
Maximum value of SAR (measured) = 0.385 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 5.982 V/m; Power Drift = -0.04 dB

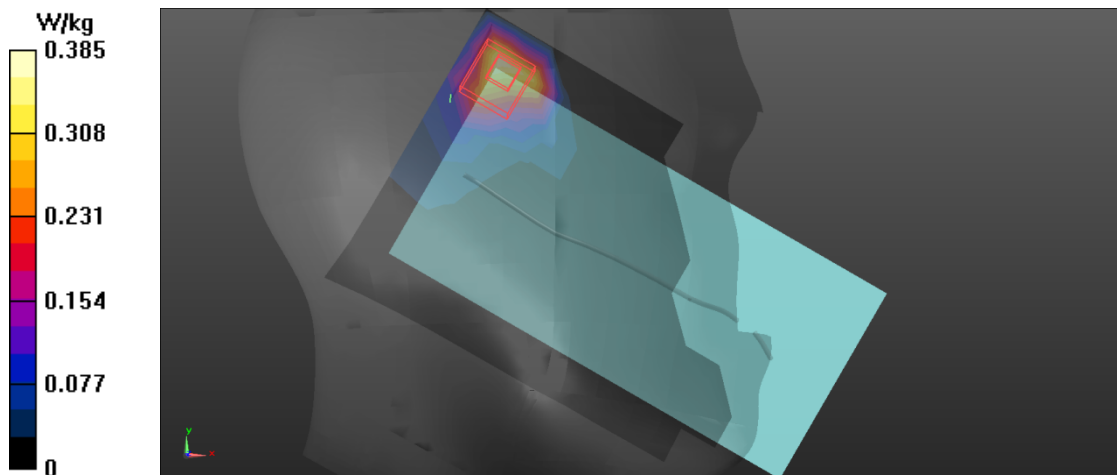
Peak SAR (extrapolated) = 0.658 W/kg

**SAR(1 g) = 0.247 W/kg; SAR(10 g) = 0.125 W/kg**

Smallest distance from peaks to all points 3 dB below = 9.1 mm

Ratio of SAR at M2 to SAR at M1 = 41.8%

Maximum value of SAR (measured) = 0.405 W/kg



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2026/8/10

### W07\_802.11ac VHT20\_CH48\_Right Cheek\_Ant\_WIFI

#### DUT: Smart Phone;

Communication System: UID 10607 - AAB, IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle); Frequency: 5240 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 5240$  MHz;  $\sigma = 4.486$  S/m;  $\epsilon_r = 35.755$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 22.4 °C; Liquid Temperature : 22.1 °C

#### DASY Configuration:

- Probe: EX3DV4 - SN7506; ConvF(5.18, 5.57, 5.14) @ 5240 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 23.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (9x15x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm  
Maximum value of SAR (measured) = 0.136 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 6.157 V/m; Power Drift = 0.08 dB

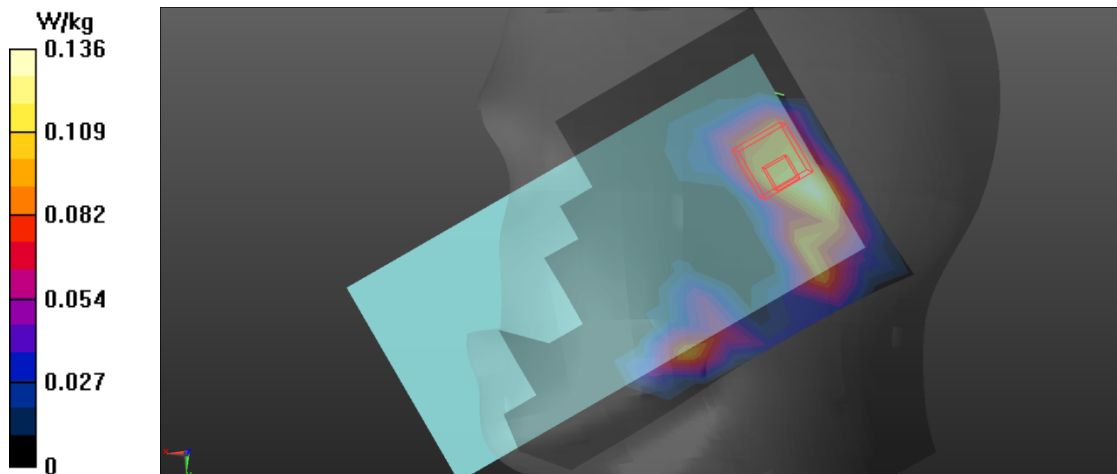
Peak SAR (extrapolated) = 0.368 W/kg

**SAR(1 g) = 0.106 W/kg; SAR(10 g) = 0.042 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.6 mm

Ratio of SAR at M2 to SAR at M1 = 48.4%

Maximum value of SAR (measured) = 0.148 W/kg



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2026/8/10

#### W14\_802.11ax HE20\_CH165\_Right Cheek\_Ant\_WIFI

##### DUT: Smart Phone;

Communication System: UID 10671 - AAA, IEEE 802.11ax (20MHz, MCS0, 90pc duty cycle); Frequency: 5825 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 5825$  MHz;  $\sigma = 5.226$  S/m;  $\epsilon_r = 34.193$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.4 °C; Liquid Temperature : 22.1 °C

##### DASY Configuration:

- Probe: EX3DV4 - SN7506; ConvF(4.66, 5.02, 4.63) @ 5825 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 23.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (9x15x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm  
Maximum value of SAR (measured) = 0.295 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 2.906 V/m; Power Drift = 0.04 dB

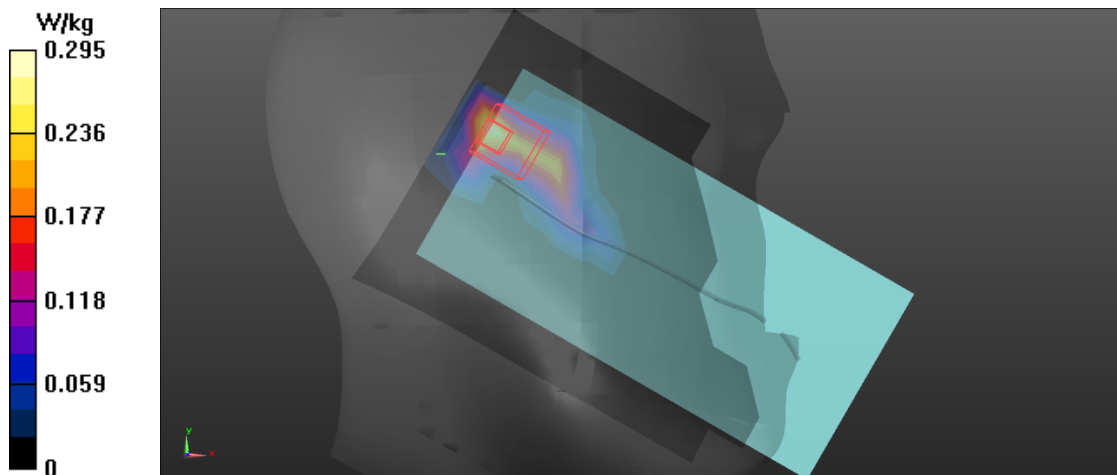
Peak SAR (extrapolated) = 0.673 W/kg

**SAR(1 g) = 0.114 W/kg; SAR(10 g) = 0.034 W/kg**

Smallest distance from peaks to all points 3 dB below = 9.5 mm

Ratio of SAR at M2 to SAR at M1 = 42.3%

Maximum value of SAR (measured) = 0.413 W/kg



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2026/8/10

### B03\_BT\_CH0\_Left Cheek\_Ant\_BT

#### DUT: Smart Phone;

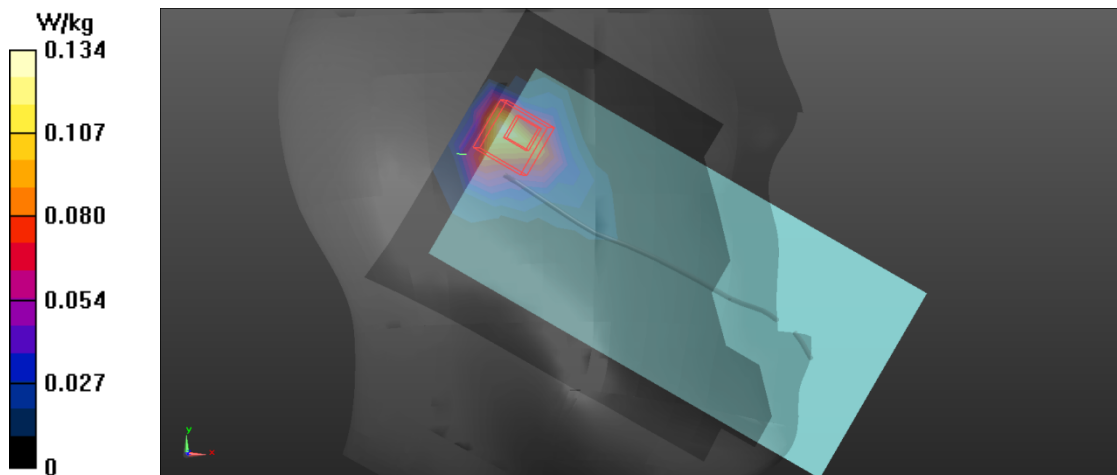
Communication System: UID 10670 - AAA, Bluetooth Low Energy; Frequency: 2402 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2402 \text{ MHz}$ ;  $\sigma = 1.82 \text{ S/m}$ ;  $\epsilon_r = 40.221$ ;  $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature :  $22.4 \text{ }^\circ\text{C}$ ; Liquid Temperature :  $22.1 \text{ }^\circ\text{C}$

#### DASY Configuration:

- Probe: EX3DV4 - SN7506; ConvF(6.77, 7.28, 6.72) @ 2402 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (9x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (measured) =  $0.134 \text{ W/kg}$

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value =  $5.945 \text{ V/m}$ ; Power Drift =  $0.05 \text{ dB}$   
Peak SAR (extrapolated) =  $0.275 \text{ W/kg}$   
**SAR(1 g) =  $0.088 \text{ W/kg}$ ; SAR(10 g) =  $0.043 \text{ W/kg}$**   
Smallest distance from peaks to all points 3 dB below =  $16.6 \text{ mm}$   
Ratio of SAR at M2 to SAR at M1 =  $36.1\%$   
Maximum value of SAR (measured) =  $0.152 \text{ W/kg}$



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2026/8/4

## G25\_GSM 850\_GPRS2TX\_CH190\_Bottom Side\_0.5cm\_Main\_SIM 2

### DUT: Smart Phone;

Communication System: UID 0, GPRS2TX (0); Frequency: 836.6 MHz; Duty Cycle: 1:4  
Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.922$  S/m;  $\epsilon_r = 43.369$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 22.4 °C; Liquid Temperature : 22.1 °C

### DASY Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.77, 9.44, 8.71) @ 836.6 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (4x9x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 0.385 W/kg

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

Reference Value = 35.02 V/m; Power Drift = 0.04 dB

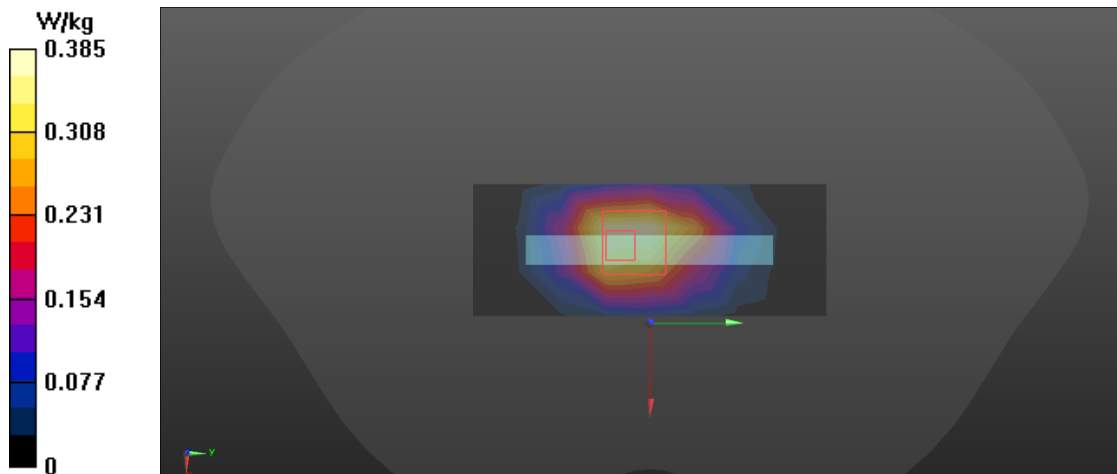
Peak SAR (extrapolated) = 2.97 W/kg

**SAR(1 g) = 0.199 W/kg; SAR(10 g) = 0.107 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.4 mm

Ratio of SAR at M2 to SAR at M1 = 36.6%

Maximum value of SAR (measured) = 3.37 W/kg



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2026/8/8

### G33\_GSM 1900\_GPRS2TX\_CH512\_Bottom Side\_0.5cm\_Main\_SIM 1

#### DUT: Smart Phone;

Communication System: UID 0, GPRS2TX (0); Frequency: 1850.2 MHz; Duty Cycle: 1:4  
Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.423$  S/m;  $\epsilon_r = 40.379$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.3 °C; Liquid Temperature : 23.0 °C

#### DASY Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.33, 7.89, 7.28) @ 1850.2 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (4x9x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 0.1 W/kg

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

Reference Value = 18.22 V/m; Power Drift = 0.04 dB

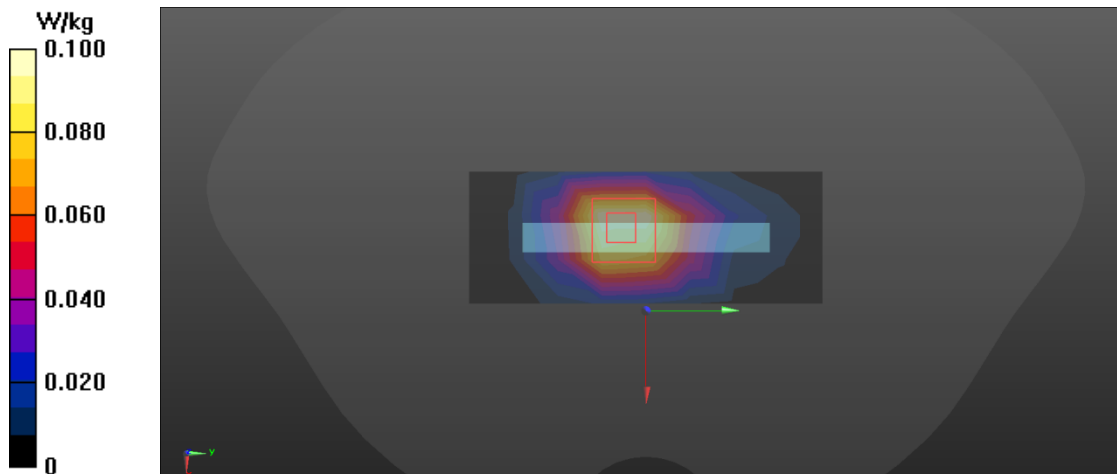
Peak SAR (extrapolated) = 0.121 W/kg

**SAR(1 g) = 0.039 W/kg; SAR(10 g) = 0.016 W/kg**

Smallest distance from peaks to all points 3 dB below = 12.8 mm

Ratio of SAR at M2 to SAR at M1 = 72.2%

Maximum value of SAR (measured) = 0.198 W/kg



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2026/8/8

### U38\_UMTS B2\_RMC12.2K\_CH9400\_Bottom Side\_0.5cm\_Main\_SIM 1

#### DUT: Smart Phone;

Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1880$  MHz;  $\sigma = 1.445$  S/m;  $\epsilon_r = 40.306$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.3 °C; Liquid Temperature : 23.0 °C

#### DASY Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.33, 7.89, 7.28) @ 1880 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (4x9x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 0.850 W/kg

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

Reference Value = 24.73 V/m; Power Drift = -0.07 dB

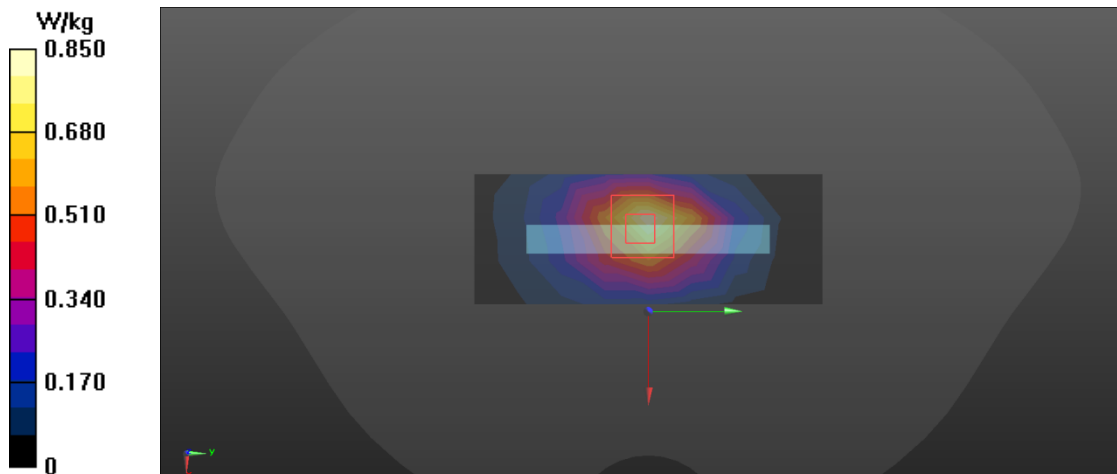
Peak SAR (extrapolated) = 0.926 W/kg

**SAR(1 g) = 0.706 W/kg; SAR(10 g) = 0.336 W/kg**

Smallest distance from peaks to all points 3 dB below = 13.2 mm

Ratio of SAR at M2 to SAR at M1 = 75%

Maximum value of SAR (measured) = 0.864 W/kg



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2026/8/6

**U49\_UMTS B4\_RMC12.2K\_CH1312\_Bottom Side\_0.5cm\_Main\_SIM 1**

**DUT: Smart Phone;**

Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1712.4 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1712.4$  MHz;  $\sigma = 1.368$  S/m;  $\epsilon_r = 40.65$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 22.5 °C; Liquid Temperature : 22.2 °C

**DASY Configuration:**

- Probe: EX3DV4 - SN7506; ConvF(7.58, 8.16, 7.53) @ 1712.4 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (4x9x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 0.385 W/kg

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

Reference Value = 24.69 V/m; Power Drift = 0.08 dB

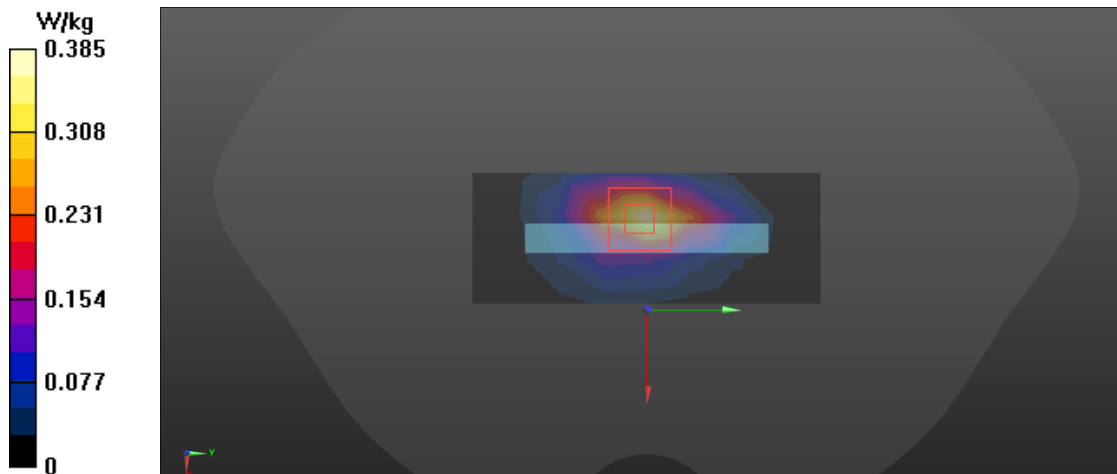
Peak SAR (extrapolated) = 5.17 W/kg

**SAR(1 g) = 0.198 W/kg; SAR(10 g) = 0.103 W/kg**

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 66.4%

Maximum value of SAR (measured) = 3.11 W/kg



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2026/8/4

#### U60\_UMTS B5\_RMC12.2K\_CH4182\_Bottom Side\_0.5cm\_Main\_SIM 1

##### DUT: Smart Phone;

Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.4 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.922$  S/m;  $\epsilon_r = 43.37$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.1 °C; Liquid Temperature : 22.8 °C

##### DASY Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.77, 9.44, 8.71) @ 836.4 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (4x9x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 0.881 W/kg

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

Reference Value = 34.17 V/m; Power Drift = -0.09 dB

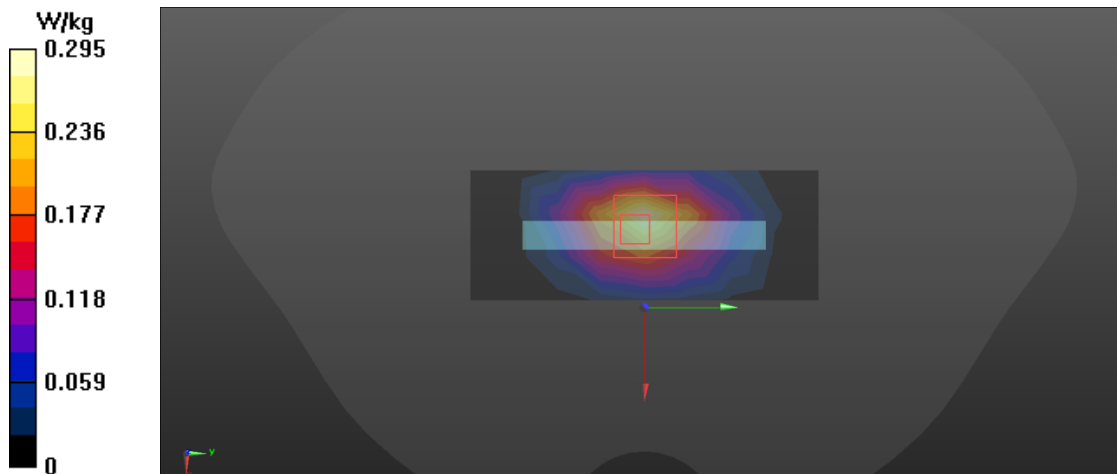
Peak SAR (extrapolated) = 1.61 W/kg

**SAR(1 g) = 0.159 W/kg; SAR(10 g) = 0.089 W/kg**

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 47.3%

Maximum value of SAR (measured) = 1.13 W/kg



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2026/8/5

**L104\_LTE B2\_QPSK20M\_CH18900\_1RB offset 99\_Bottom Side\_0.5cm\_Main\_SIM 1**

**DUT: Smart Phone;**

Communication System: UID 10169 - CAE, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 1880 MHz;  
Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1880$  MHz;  $\sigma = 1.436$  S/m;  $\epsilon_r = 40.306$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 22.1 °C; Liquid Temperature : 21.8 °C

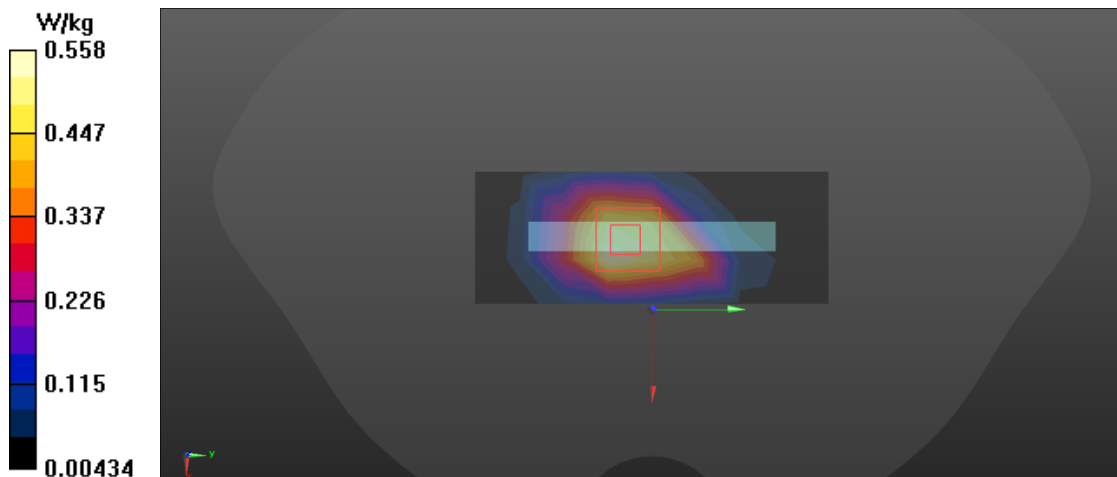
**DASY Configuration:**

- Probe: EX3DV4 - SN7506; ConvF(7.33, 7.89, 7.28) @ 1880 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (4x9x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 0.558 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm  
Reference Value = 22.48 V/m; Power Drift = 0.04 dB  
Peak SAR (extrapolated) = 0.739 W/kg

**SAR(1 g) = 0.506 W/kg; SAR(10 g) = 0.279 W/kg**  
Smallest distance from peaks to all points 3 dB below = 11.2 mm  
Ratio of SAR at M2 to SAR at M1 = 71.7%  
Maximum value of SAR (measured) = 0.716 W/kg



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2026/8/7

**L121\_LTE B4\_QPSK20M\_CH20300\_1RB offset 99\_Bottom Side\_0.5cm\_Main\_SIM 1**

**DUT: Smart Phone;**

Communication System: UID 10169 - CAE, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 1745 MHz;  
Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1745$  MHz;  $\sigma = 1.385$  S/m;  $\epsilon_r = 40.576$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.6 °C; Liquid Temperature : 22.3 °C

DASY Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.58, 8.16, 7.53) @ 1745 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (4x9x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 0.634 W/kg

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

Reference Value = 24.50 V/m; Power Drift = 0.04 dB

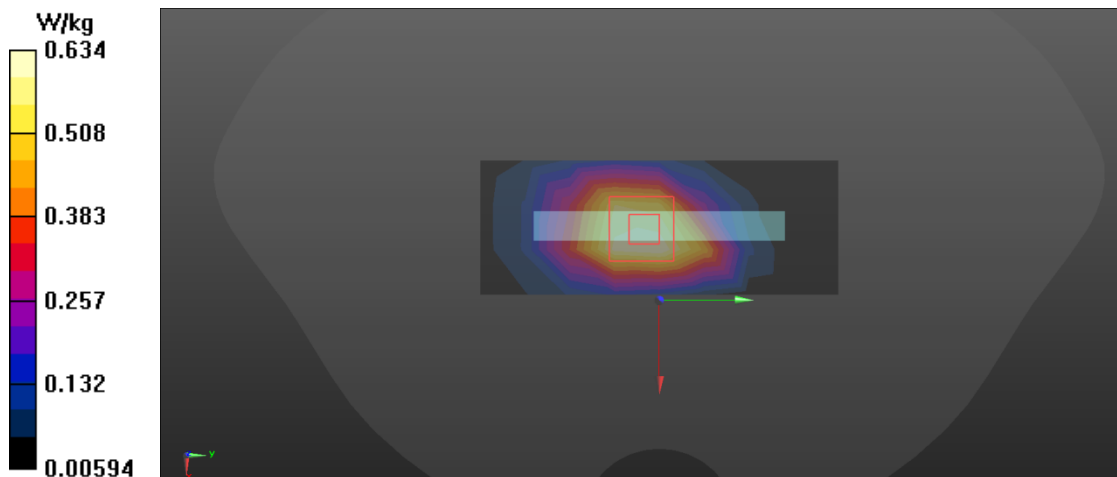
Peak SAR (extrapolated) = 0.840 W/kg

**SAR(1 g) = 0.227 W/kg; SAR(10 g) = 0.129 W/kg**

Smallest distance from peaks to all points 3 dB below = 11.2 mm

Ratio of SAR at M2 to SAR at M1 = 73.4%

Maximum value of SAR (measured) = 0.819 W/kg



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2026/8/5

**L138\_LTE B5\_QPSK10M\_CH20450\_1RB offset 0\_Bottom Side\_0.5cm\_Main\_SIM 1**

**DUT: Smart Phone;**

Communication System: UID 10175 - CAG, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 829 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 829$  MHz;  $\sigma = 0.915$  S/m;  $\epsilon_r = 43.405$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.1 °C; Liquid Temperature : 21.8 °C

**DASY Configuration:**

- Probe: EX3DV4 - SN7506; ConvF(8.77, 9.44, 8.71) @ 829 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (4x9x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 0.196 W/kg

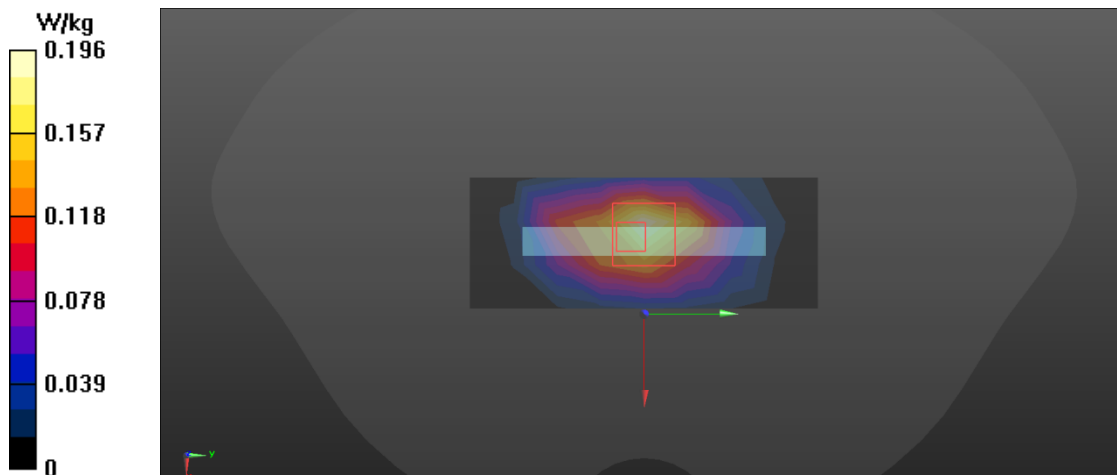
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm  
Reference Value = 35.23 V/m; Power Drift = 0.04 dB  
Peak SAR (extrapolated) = 1.80 W/kg

**SAR(1 g) = 0.161 W/kg; SAR(10 g) = 0.084 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.4 mm

Ratio of SAR at M2 to SAR at M1 = 36.9%

Maximum value of SAR (measured) = 1.17 W/kg



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2026/8/3

**L155\_LTE B17\_QPSK10M\_CH23790\_1RB offset 0\_Bottom Side\_0.5cm\_Main\_SIM 1**

**DUT: Smart Phone;**

Communication System: UID 10175 - CAG, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 710 MHz;  
Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 710 \text{ MHz}$ ;  $\sigma = 0.867 \text{ S/m}$ ;  $\epsilon_r = 43.998$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature :  $22.8 \text{ }^\circ\text{C}$ ; Liquid Temperature :  $22.5 \text{ }^\circ\text{C}$

DASY Configuration:

- Probe: EX3DV4 - SN7506; ConvF(9.08, 9.77, 9.02) @ 710 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (4x9x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (measured) =  $0.017 \text{ W/kg}$

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

Reference Value =  $12.49 \text{ V/m}$ ; Power Drift =  $0.02 \text{ dB}$

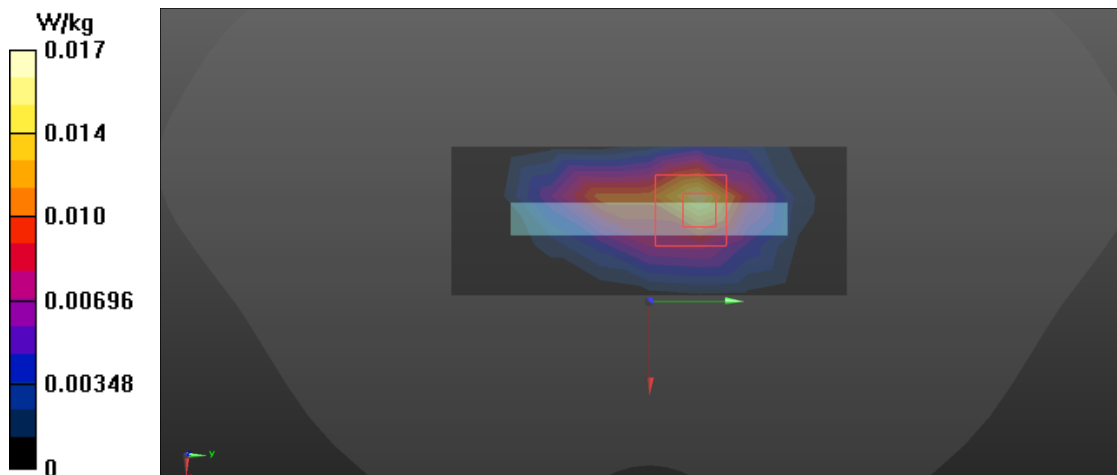
Peak SAR (extrapolated) =  $0.0180 \text{ W/kg}$

**SAR(1 g) =  $0.013 \text{ W/kg}$ ; SAR(10 g) =  $0.005 \text{ W/kg}$**

Smallest distance from peaks to all points 3 dB below =  $8.6 \text{ mm}$

Ratio of SAR at M2 to SAR at M1 =  $40.7\%$

Maximum value of SAR (measured) =  $0.0177 \text{ W/kg}$



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2026/8/5

**L172\_LTE B25\_QPSK20M\_CH26590\_1RB offset 50\_Bottom Side\_0.5cm\_Main\_SIM 1**

**DUT: Smart Phone;**

Communication System: UID 10169 - CAE, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 1905 MHz;  
Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1905$  MHz;  $\sigma = 1.462$  S/m;  $\epsilon_r = 40.262$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.1 °C; Liquid Temperature : 21.8 °C

DASY Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.33, 7.89, 7.28) @ 1905 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (4x9x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 0.887 W/kg

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

Reference Value = 25.06 V/m; Power Drift = 0.06 dB

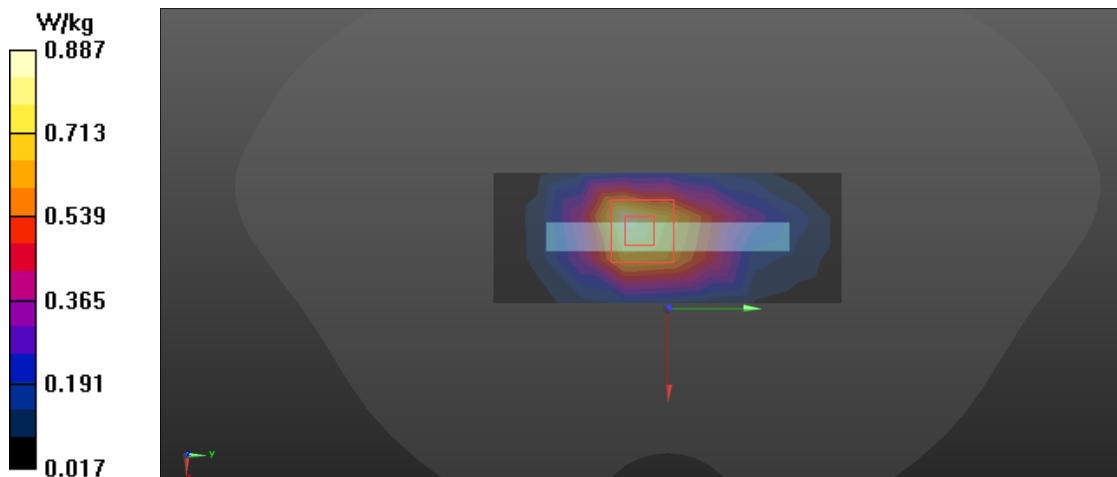
Peak SAR (extrapolated) = 1.06 W/kg

**SAR(1 g) = 0.811 W/kg; SAR(10 g) = 0.423 W/kg**

Smallest distance from peaks to all points 3 dB below = 12.8 mm

Ratio of SAR at M2 to SAR at M1 = 71.6%

Maximum value of SAR (measured) = 0.988 W/kg



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2026/8/7

**L206\_LTE B66\_QPSK20M\_CH132572\_1RB offset 0\_Bottom Side\_0.5cm\_Main\_SIM 1**

**DUT: Smart Phone;**

Communication System: UID 10169 - CAE, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 1770 MHz;  
Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1770$  MHz;  $\sigma = 1.401$  S/m;  $\epsilon_r = 40.523$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.6 °C; Liquid Temperature : 22.3 °C

DASY Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.58, 8.16, 7.53) @ 1770 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (4x9x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 0.622 W/kg

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

Reference Value = 12.32 V/m; Power Drift = -0.03 dB

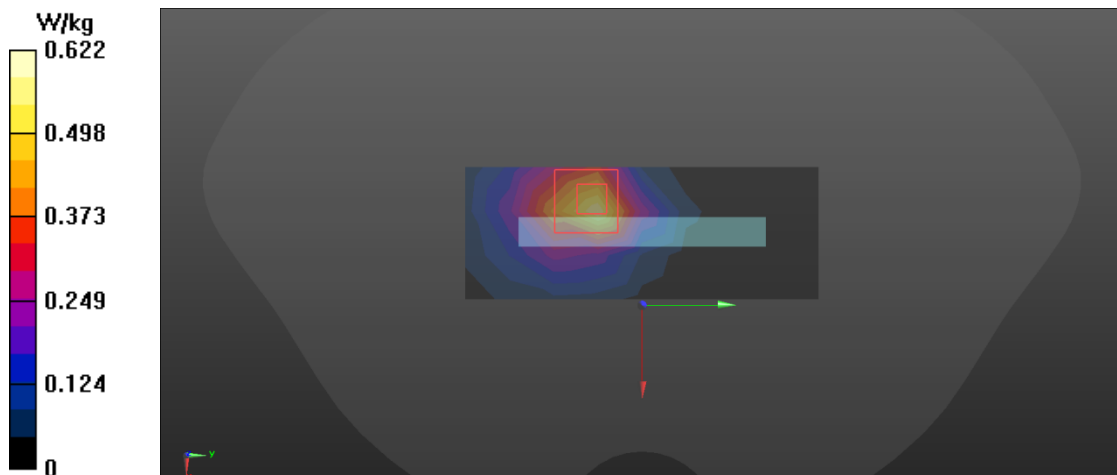
Peak SAR (extrapolated) = 2.13 W/kg

**SAR(1 g) = 0.292 W/kg; SAR(10 g) = 0.155 W/kg**

Smallest distance from peaks to all points 3 dB below = 11.5 mm

Ratio of SAR at M2 to SAR at M1 = 71.4%

Maximum value of SAR (measured) = 0.702 W/kg



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2026/8/10

**W21\_802.11ax HE40\_CH6\_Rear Face\_0.5cm\_Ant\_WIFI**

**DUT: Smart Phone;**

Communication System: UID 10695 - AAA, IEEE 802.11ax (40MHz, MCS0, 90pc duty cycle); Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.835$  S/m;  $\epsilon_r = 40.172$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.4 °C; Liquid Temperature : 22.1 °C

**DASY Configuration:**

- Probe: EX3DV4 - SN7506; ConvF(6.77, 7.28, 6.72) @ 2437 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (9x15x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm  
Maximum value of SAR (measured) = 0.134 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 0 V/m; Power Drift = 0.01 dB

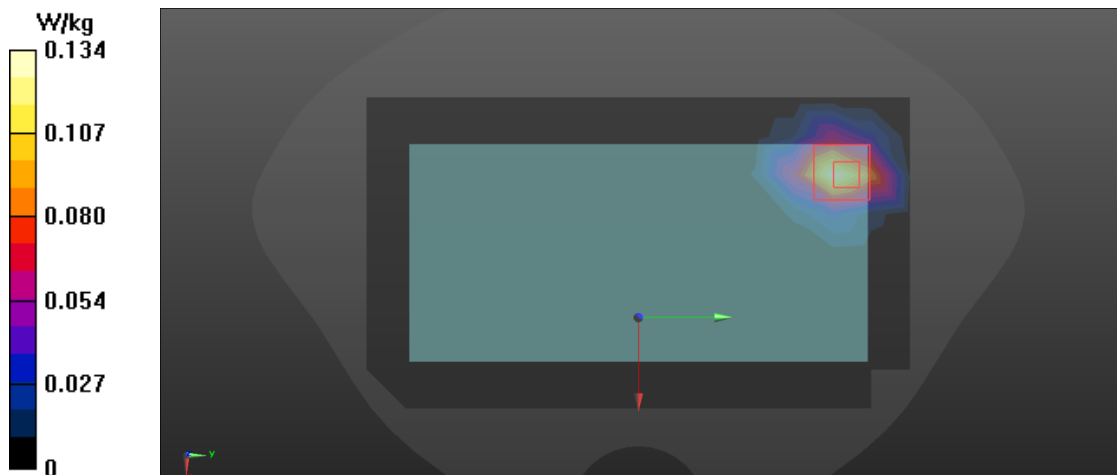
Peak SAR (extrapolated) = 1.26 W/kg

**SAR(1 g) = 0.126 W/kg; SAR(10 g) = 0.057 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.6 mm

Ratio of SAR at M2 to SAR at M1 = 40.4%

Maximum value of SAR (measured) = 0.900 W/kg



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2026/8/10

**W29\_802.11ac VHT20\_CH48\_Rear Face\_0.5cm\_Ant\_WIFI**

**DUT: Smart Phone;**

Communication System: UID 10607 - AAB, IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle); Frequency: 5240 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 5240$  MHz;  $\sigma = 4.486$  S/m;  $\epsilon_r = 35.755$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 22.4 °C; Liquid Temperature : 22.1 °C

**DASY Configuration:**

- Probe: EX3DV4 - SN7506; ConvF(5.18, 5.57, 5.14) @ 5240 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 23.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (9x15x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm  
Maximum value of SAR (measured) = 0.671 W/kg

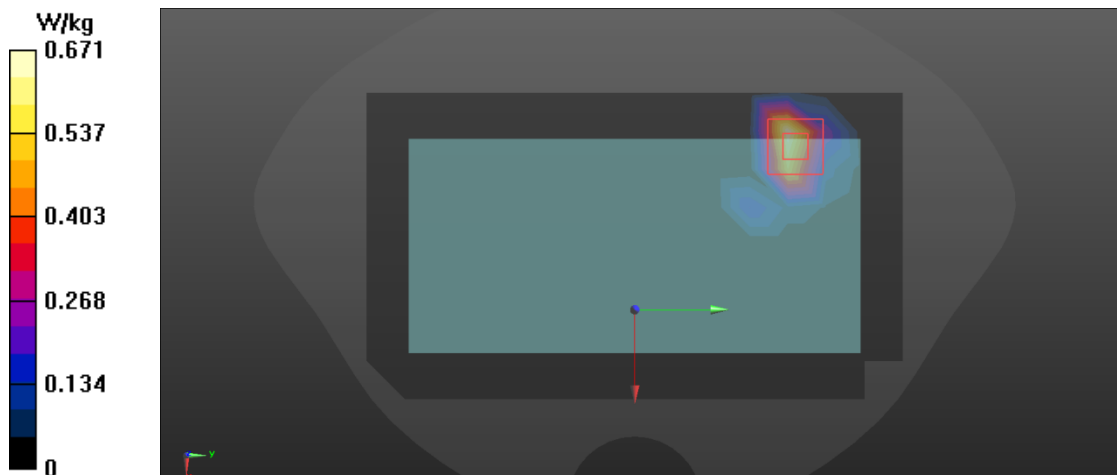
**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm  
Reference Value = 0 V/m; Power Drift = 0.01 dB  
Peak SAR (extrapolated) = 2.29 W/kg

**SAR(1 g) = 0.221 W/kg; SAR(10 g) = 0.064 W/kg**

Smallest distance from peaks to all points 3 dB below = 9.2 mm

Ratio of SAR at M2 to SAR at M1 = 39.7%

Maximum value of SAR (measured) = 1.10 W/kg



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2026/8/10

**W38\_802.11ax HE20\_CH165\_Rear Face\_0.5cm\_Ant\_WIFI**

**DUT: Smart Phone;**

Communication System: UID 10671 - AAA, IEEE 802.11ax (20MHz, MCS0, 90pc duty cycle); Frequency: 5825 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 5825$  MHz;  $\sigma = 5.226$  S/m;  $\epsilon_r = 34.193$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.4 °C; Liquid Temperature : 22.1 °C

**DASY Configuration:**

- Probe: EX3DV4 - SN7506; ConvF(4.66, 5.02, 4.63) @ 5825 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 23.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (9x15x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm  
Maximum value of SAR (measured) = 0.622 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0 V/m; Power Drift = 0.01 dB

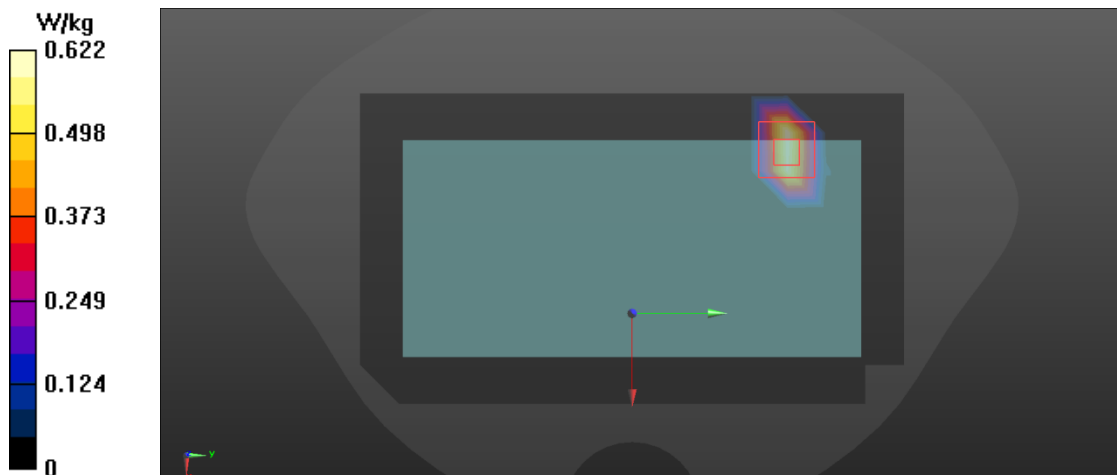
Peak SAR (extrapolated) = 1.77 W/kg

**SAR(1 g) = 0.477 W/kg; SAR(10 g) = 0.170 W/kg**

Smallest distance from peaks to all points 3 dB below = 9.8 mm

Ratio of SAR at M2 to SAR at M1 = 44.4%

Maximum value of SAR (measured) = 7.14 W/kg



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2026/8/10

### B08\_BT\_CH0\_Rear Face\_Ant\_BT

#### DUT: Smart Phone;

Communication System: UID 10670 - AAA, Bluetooth Low Energy; Frequency: 2402 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2402$  MHz;  $\sigma = 1.82$  S/m;  $\epsilon_r = 40.221$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 22.4 °C; Liquid Temperature : 22.1 °C

#### DASY Configuration:

- Probe: EX3DV4 - SN7506; ConvF(6.77, 7.28, 6.72) @ 2402 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (9x15x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 0.0271 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 0 V/m; Power Drift = 0.01 dB

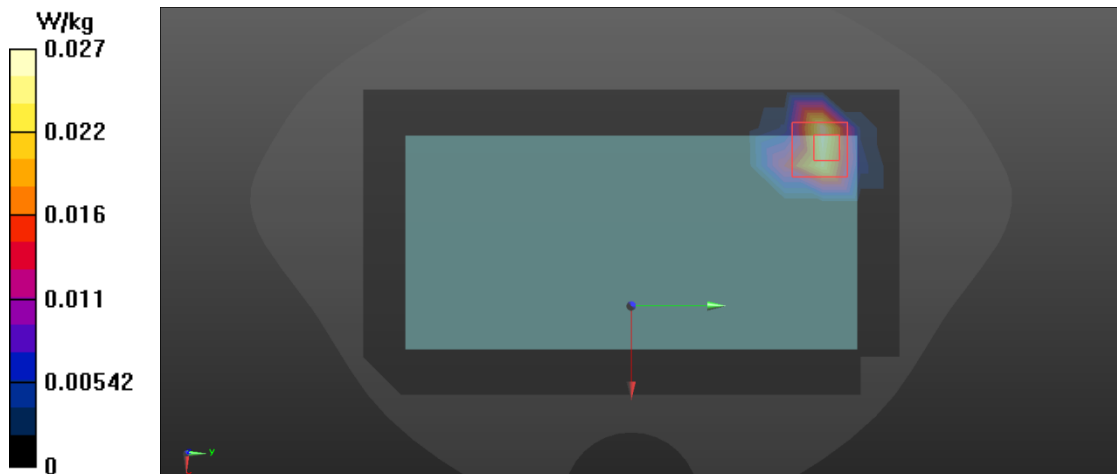
Peak SAR (extrapolated) = 0.0700 W/kg

**SAR(1 g) = 0.02 W/kg; SAR(10 g) = 0.006 W/kg**

Smallest distance from peaks to all points 3 dB below = 9.1 mm

Ratio of SAR at M2 to SAR at M1 = 45.3%

Maximum value of SAR (measured) = 0.0349 W/kg



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2026/8/4

### G27\_GSM 850\_GPRS2TX\_CH190\_Bottom Side\_1cm\_Main\_SIM 1

#### DUT: Smart Phone;

Communication System: UID 0, GPRS2TX (0); Frequency: 836.6 MHz; Duty Cycle: 1:4  
Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.922$  S/m;  $\epsilon_r = 43.369$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 22.4 °C; Liquid Temperature : 22.1 °C

#### DASY Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.77, 9.44, 8.71) @ 836.6 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (4x9x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 0.296 W/kg

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

Reference Value = 22.50 V/m; Power Drift = 0.05 dB

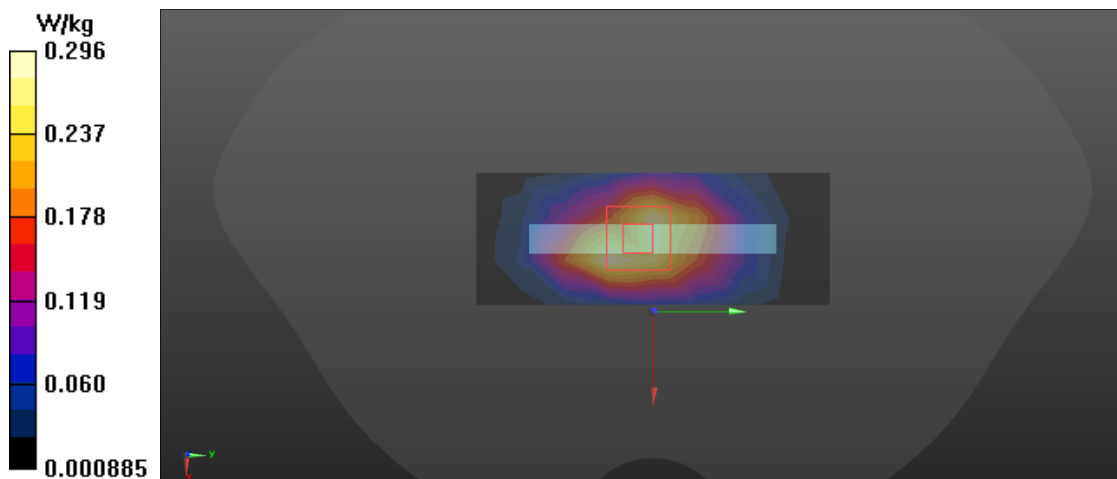
Peak SAR (extrapolated) = 0.611 W/kg

**SAR(1 g) = 0.114 W/kg; SAR(10 g) = 0.061 W/kg**

Smallest distance from peaks to all points 3 dB below = 9.3 mm

Ratio of SAR at M2 to SAR at M1 = 42.4%

Maximum value of SAR (measured) = 0.431 W/kg



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2026/8/8

### G37\_GSM 1900\_GPRS2TX\_CH512\_Bottom Side\_1cm\_Main\_SIM 1

#### DUT: Smart Phone;

Communication System: UID 0, GPRS2TX (0); Frequency: 1850.2 MHz; Duty Cycle: 1:4  
Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.423$  S/m;  $\epsilon_r = 40.379$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.3 °C; Liquid Temperature : 23.0 °C

#### DASY Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.33, 7.89, 7.28) @ 1850.2 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (4x9x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 0.1 W/kg

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

Reference Value = 11.94 V/m; Power Drift = 0.03 dB

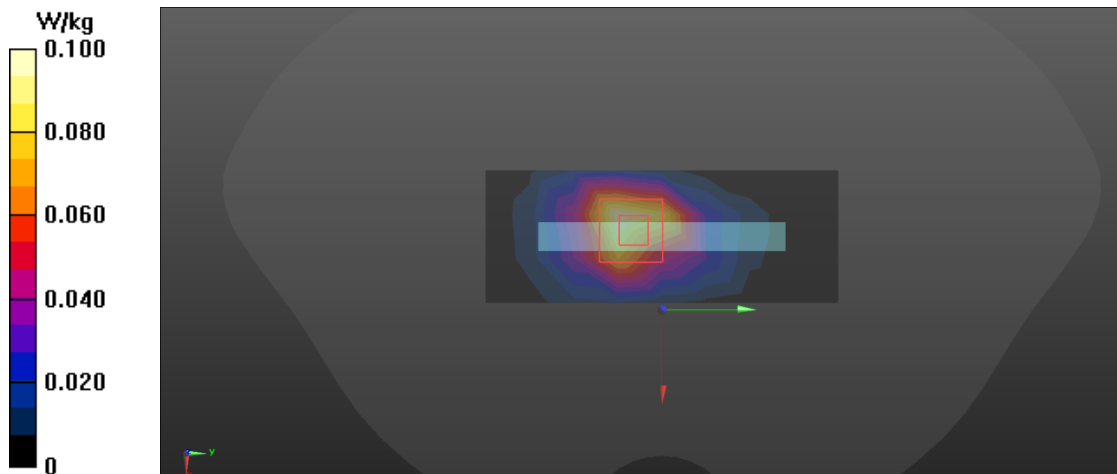
Peak SAR (extrapolated) = 0.145 W/kg

**SAR(1 g) = 0.032 W/kg; SAR(10 g) = 0.013 W/kg**

Smallest distance from peaks to all points 3 dB below = 9.3 mm

Ratio of SAR at M2 to SAR at M1 = 67%

Maximum value of SAR (measured) = 0.126 W/kg



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2026/8/8

#### U42\_UMTS B2\_RMC12.2K\_CH9400\_Bottom Side\_1cm\_Main\_SIM 1

##### DUT: Smart Phone;

Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1880$  MHz;  $\sigma = 1.445$  S/m;  $\epsilon_r = 40.306$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.3 °C; Liquid Temperature : 23.0 °C

##### DASY Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.33, 7.89, 7.28) @ 1880 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (4x9x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 0.905 W/kg

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

Reference Value = 22.02 V/m; Power Drift = 0.06 dB

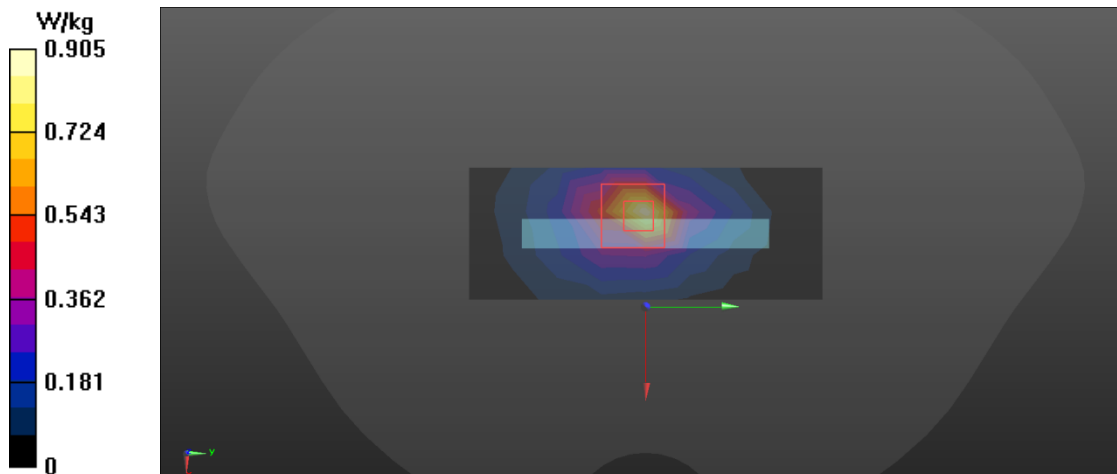
Peak SAR (extrapolated) = 0.994 W/kg

**SAR(1 g) = 0.511 W/kg; SAR(10 g) = 0.241 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.2 mm

Ratio of SAR at M2 to SAR at M1 = 44.3%

Maximum value of SAR (measured) = 0.827 W/kg



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2026/8/6

#### U54\_UMTS B4\_RMC12.2K\_CH1312\_Bottom Side\_1cm\_Main\_SIM 1

##### DUT: Smart Phone;

Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1712.4 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1712.4$  MHz;  $\sigma = 1.391$  S/m;  $\epsilon_r = 40.557$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 22.5 °C; Liquid Temperature : 22.2 °C

##### DASY Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.58, 8.16, 7.53) @ 1712.4 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (4x9x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 0.640 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm  
Reference Value = 21.70 V/m; Power Drift = 0.05 dB

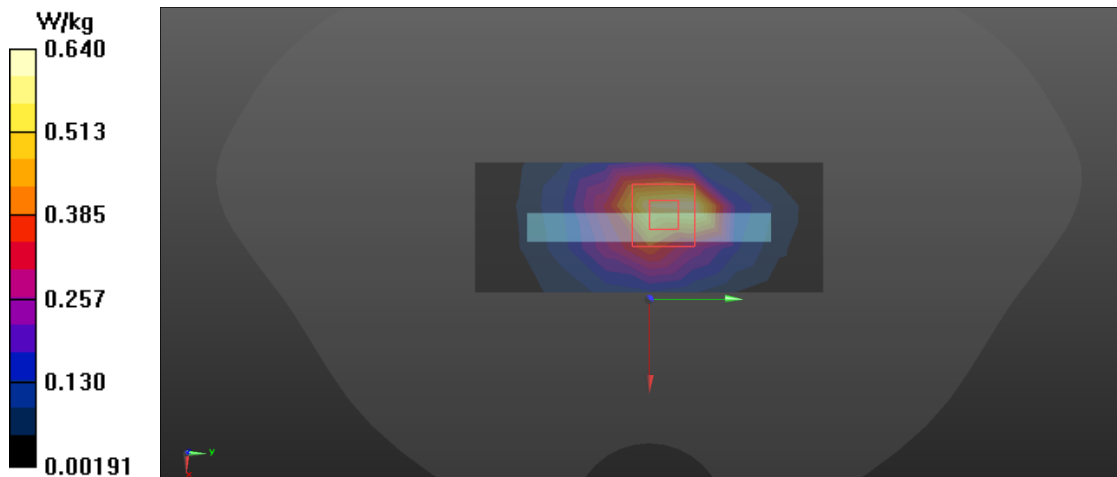
Peak SAR (extrapolated) = 0.816 W/kg

**SAR(1 g) = 0.132 W/kg; SAR(10 g) = 0.069 W/kg**

Smallest distance from peaks to all points 3 dB below = 9.7 mm

Ratio of SAR at M2 to SAR at M1 = 57.8%

Maximum value of SAR (measured) = 0.721 W/kg



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2026/8/4

#### U65\_UMTS B5\_RMC12.2K\_CH4182\_Bottom Side\_1cm\_Main\_SIM 1

##### DUT: Smart Phone;

Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.4 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.918$  S/m;  $\epsilon_r = 43.37$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 22.4 °C; Liquid Temperature : 22.1 °C

##### DASY Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.77, 9.44, 8.71) @ 836.4 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (4x9x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 0.073 W/kg

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

Reference Value = 25.46 V/m; Power Drift = -0.03 dB

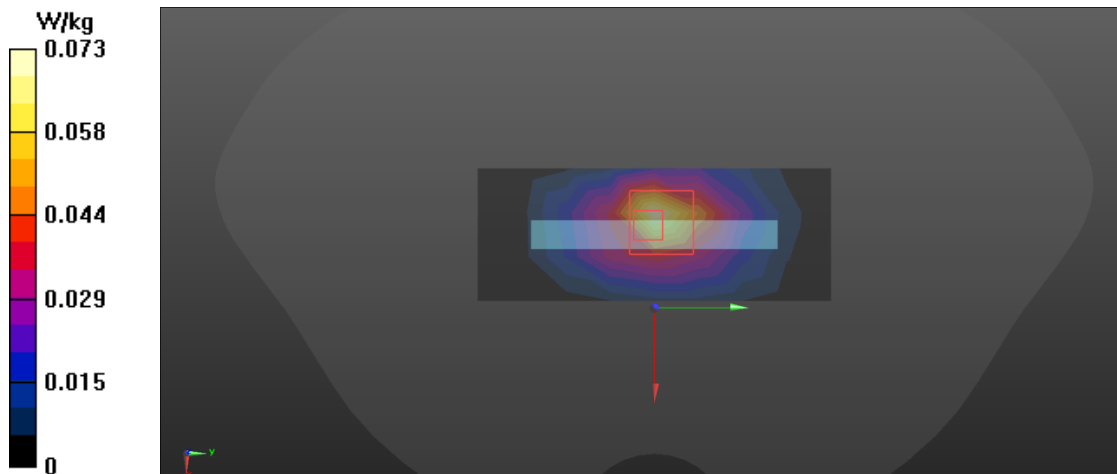
Peak SAR (extrapolated) = 0.076 W/kg

**SAR(1 g) = 0.068 W/kg; SAR(10 g) = 0.041 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.4 mm

Ratio of SAR at M2 to SAR at M1 = 38.6%

Maximum value of SAR (measured) = 0.075 W/kg



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2026/8/5

**L114\_LTE B2\_QPSK20M\_CH18900\_1RB offset 99\_Bottom Side\_1cm\_Main\_SIM 1**

**DUT: Smart Phone;**

Communication System: UID 10169 - CAE, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 1880 MHz;  
Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1880$  MHz;  $\sigma = 1.436$  S/m;  $\epsilon_r = 40.306$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.1 °C; Liquid Temperature : 21.8 °C

DASY Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.33, 7.89, 7.28) @ 1880 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (4x9x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 0.385 W/kg

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

Reference Value = 16.94 V/m; Power Drift = 0.08 dB

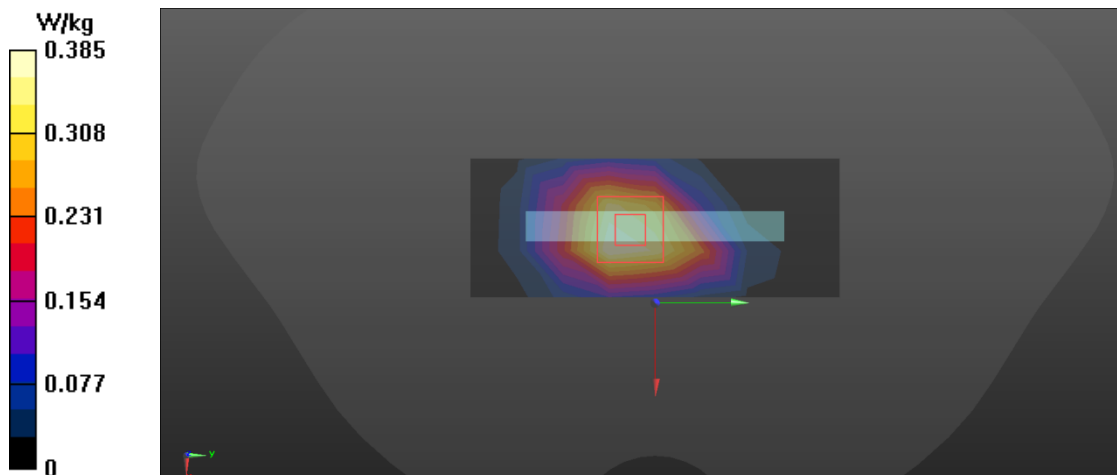
Peak SAR (extrapolated) = 0.429 W/kg

**SAR(1 g) = 0.366 W/kg; SAR(10 g) = 0.211 W/kg**

Smallest distance from peaks to all points 3 dB below = 12.8 mm

Ratio of SAR at M2 to SAR at M1 = 74.6%

Maximum value of SAR (measured) = 0.421 W/kg



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2026/8/7

**L133\_LTE B4\_QPSK20M\_CH20175\_1RB offset 99\_Bottom Side\_1cm\_Main\_SIM 1**

**DUT: Smart Phone;**

Communication System: UID 10169 - CAE, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.385$  S/m;  $\epsilon_r = 40.576$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.6 °C; Liquid Temperature : 22.3 °C

**DASY Configuration:**

- Probe: EX3DV4 - SN7506; ConvF(7.58, 8.16, 7.53) @ 1732.5 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (4x9x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 0.513 W/kg

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

Reference Value = 19.18 V/m; Power Drift = 0.06 dB

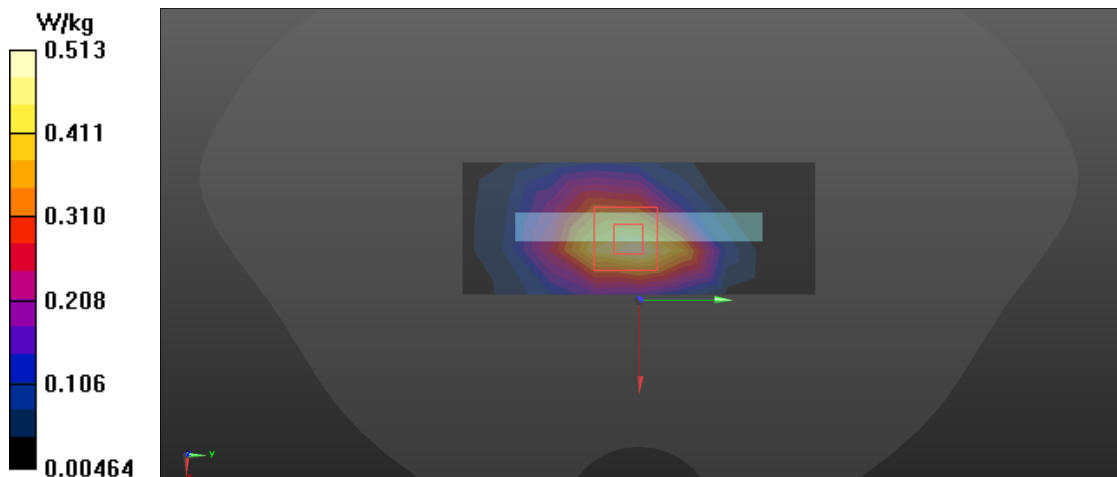
Peak SAR (extrapolated) = 0.538 W/kg

**SAR(1 g) = 0.120 W/kg; SAR(10 g) = 0.07 W/kg**

Smallest distance from peaks to all points 3 dB below = 14.4 mm

Ratio of SAR at M2 to SAR at M1 = 76.9%

Maximum value of SAR (measured) = 0.528 W/kg



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2026/8/5

**L150\_LTE B5\_QPSK10M\_CH20450\_1RB offset 0\_Bottom Side\_1cm\_Main\_SIM 1**

**DUT: Smart Phone;**

Communication System: UID 10175 - CAG, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 829 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 829 \text{ MHz}$ ;  $\sigma = 0.915 \text{ S/m}$ ;  $\epsilon_r = 43.405$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature :  $22.1 \text{ }^\circ\text{C}$ ; Liquid Temperature :  $21.8 \text{ }^\circ\text{C}$

**DASY Configuration:**

- Probe: EX3DV4 - SN7506; ConvF(8.77, 9.44, 8.71) @ 829 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (4x9x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (measured) =  $0.111 \text{ W/kg}$

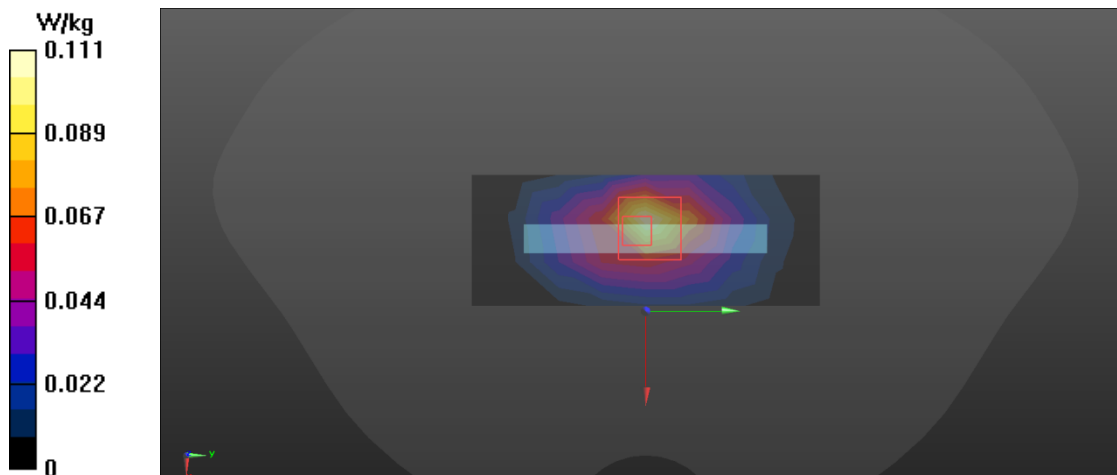
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value =  $27.14 \text{ V/m}$ ; Power Drift =  $0.09 \text{ dB}$   
Peak SAR (extrapolated) =  $1.07 \text{ W/kg}$

**SAR(1 g) =  $0.088 \text{ W/kg}$ ; SAR(10 g) =  $0.046 \text{ W/kg}$**

Smallest distance from peaks to all points 3 dB below =  $12.4 \text{ mm}$

Ratio of SAR at M2 to SAR at M1 =  $37.4\%$

Maximum value of SAR (measured) =  $0.180 \text{ W/kg}$



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2026/8/3

**L165\_LTE B17\_QPSK10M\_CH23790\_1RB offset 0\_Bottom Side\_1cm\_Main\_SIM 1**

**DUT: Smart Phone;**

Communication System: UID 10175 - CAG, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 710 MHz;  
Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 710$  MHz;  $\sigma = 0.867$  S/m;  $\epsilon_r = 43.998$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.8 °C; Liquid Temperature : 22.5 °C

DASY Configuration:

- Probe: EX3DV4 - SN7506; ConvF(9.08, 9.77, 9.02) @ 710 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (4x9x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 0.073 W/kg

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

Reference Value = 10.84 V/m; Power Drift = -0.03 dB

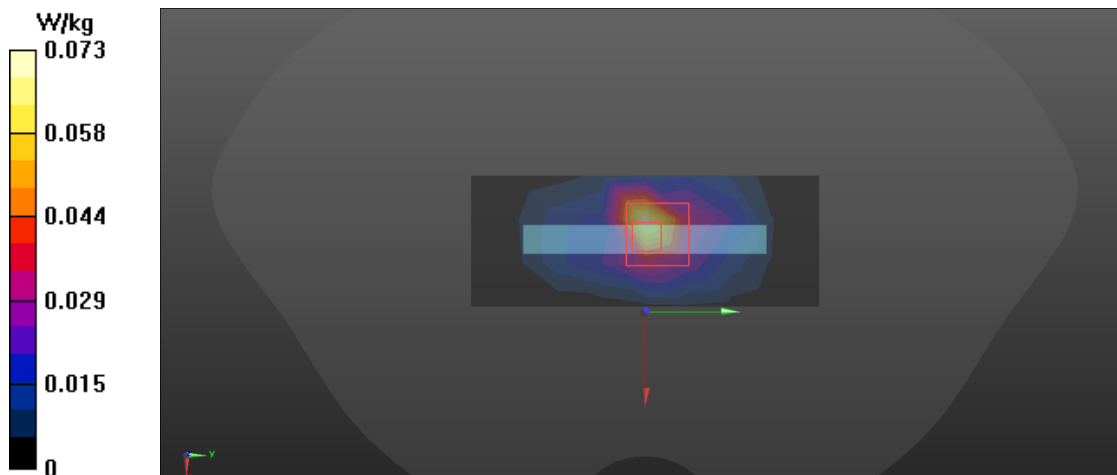
Peak SAR (extrapolated) = 0.117 W/kg

**SAR(1 g) = 0.003 W/kg; SAR(10 g) = 0.001 W/kg**

Smallest distance from peaks to all points 3 dB below = 9.4 mm

Ratio of SAR at M2 to SAR at M1 = 38.7%

Maximum value of SAR (measured) = 0.103 W/kg



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2026/8/5

**L183\_LTE B25\_QPSK20M\_CH26590\_1RB offset 50\_Bottom Side\_1cm\_Main\_SIM 1**

**DUT: Smart Phone;**

Communication System: UID 10169 - CAE, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 1905 MHz;  
Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1905$  MHz;  $\sigma = 1.462$  S/m;  $\epsilon_r = 40.262$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 22.1 °C; Liquid Temperature : 21.8 °C

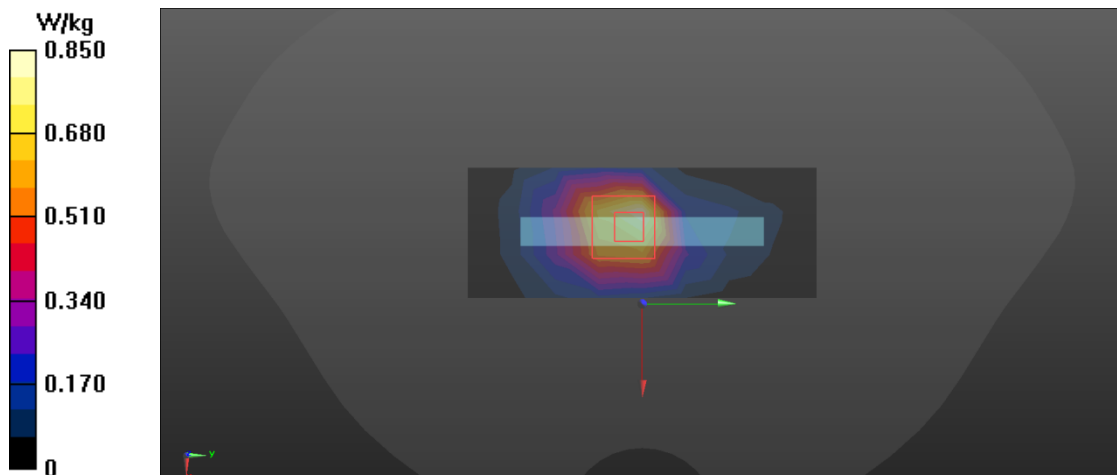
**DASY Configuration:**

- Probe: EX3DV4 - SN7506; ConvF(7.33, 7.89, 7.28) @ 1905 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (4x9x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 0.850 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm  
Reference Value = 19.36 V/m; Power Drift = 0.02 dB  
Peak SAR (extrapolated) = 0.866 W/kg

**SAR(1 g) = 0.665 W/kg; SAR(10 g) = 0.355 W/kg**  
Smallest distance from peaks to all points 3 dB below = 9.1 mm  
Ratio of SAR at M2 to SAR at M1 = 73.3%  
Maximum value of SAR (measured) = 0.890 W/kg



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2026/8/7

**L218\_LTE B66\_QPSK20M\_CH132572\_1RB offset 0\_Bottom Side\_1cm\_Main\_SIM 1**

**DUT: Smart Phone;**

Communication System: UID 10169 - CAE, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 1770 MHz;  
Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1770$  MHz;  $\sigma = 1.401$  S/m;  $\epsilon_r = 40.523$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.6 °C; Liquid Temperature : 22.3 °C

DASY Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.58, 8.16, 7.53) @ 1770 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (4x9x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 0.554 W/kg

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

Reference Value = 21.43 V/m; Power Drift = 0.01 dB

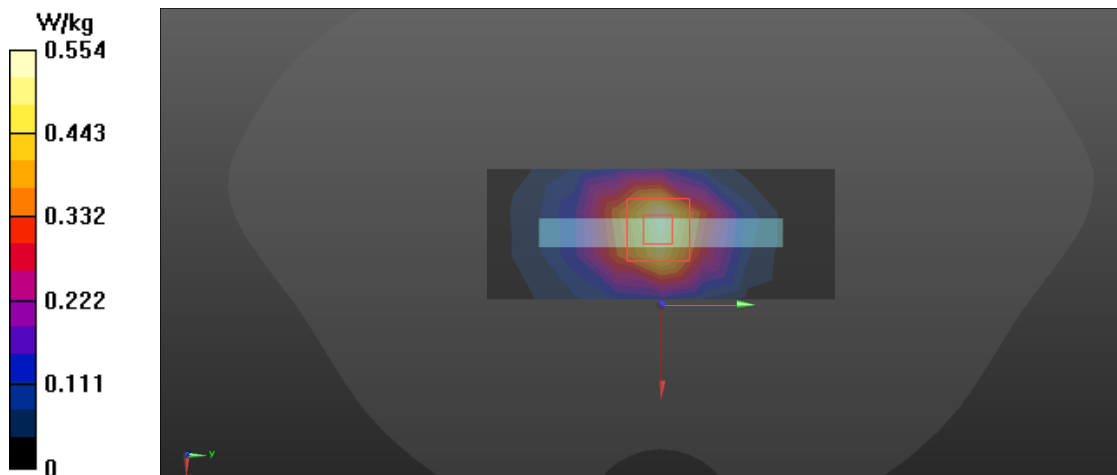
Peak SAR (extrapolated) = 0.630 W/kg

**SAR(1 g) = 0.165 W/kg; SAR(10 g) = 0.088 W/kg**

Smallest distance from peaks to all points 3 dB below = 14.5 mm

Ratio of SAR at M2 to SAR at M1 = 79.9%

Maximum value of SAR (measured) = 0.609 W/kg



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2026/8/10

**W21\_802.11ax HE40\_CH6\_Rear Face\_1cm\_Ant\_WIFI**

**DUT: Smart Phone;**

Communication System: UID 10695 - AAA, IEEE 802.11ax (40MHz, MCS0, 90pc duty cycle); Frequency:2437 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.835$  S/m;  $\epsilon_r = 40.172$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.4 °C; Liquid Temperature : 22.1 °C

**DASY Configuration:**

- Probe: EX3DV4 - SN7506; ConvF(6.77, 7.28, 6.72) @ 2437 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52,Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (9x15x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm  
Maximum value of SAR (measured) = 0.211 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 0 V/m; Power Drift = 0.01 dB

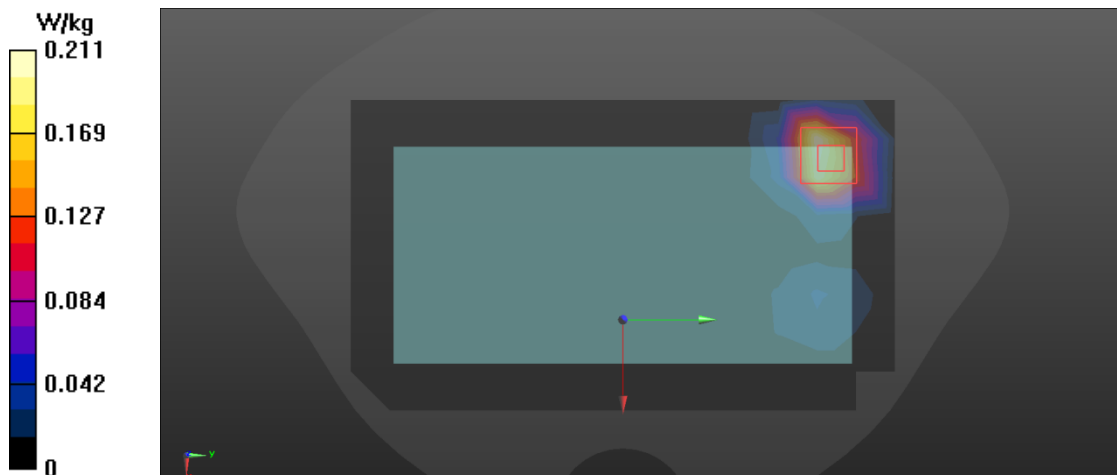
Peak SAR (extrapolated) = 0.443 W/kg

**SAR(1 g) = 0.099 W/kg; SAR(10 g) = 0.043 W/kg**

Smallest distance from peaks to all points 3 dB below = 12.1 mm

Ratio of SAR at M2 to SAR at M1 = 47.6%

Maximum value of SAR (measured) = 0.338 W/kg



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2026/8/10

**W34\_802.11ac VHT20\_CH48\_Rear Face\_0.5cm\_Ant\_WIFI**

**DUT: Smart Phone;**

Communication System: UID 10607 - AAB, IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle); Frequency: 5240 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 5240$  MHz;  $\sigma = 4.486$  S/m;  $\epsilon_r = 35.755$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 22.4 °C; Liquid Temperature : 22.1 °C

**DASY Configuration:**

- Probe: EX3DV4 - SN7506; ConvF(5.18, 5.57, 5.14) @ 5240 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 23.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (9x15x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm  
Maximum value of SAR (measured) = 0.671 W/kg

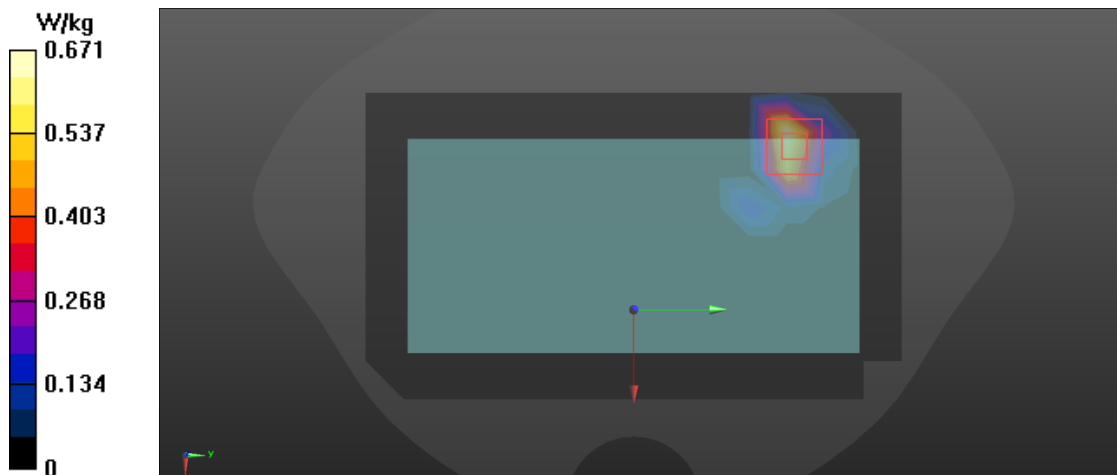
**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm  
Reference Value = 0 V/m; Power Drift = 0.01 dB  
Peak SAR (extrapolated) = 2.29 W/kg

**SAR(1 g) = 0.228 W/kg; SAR(10 g) = 0.084 W/kg**

Smallest distance from peaks to all points 3 dB below = 9.2 mm

Ratio of SAR at M2 to SAR at M1 = 39.7%

Maximum value of SAR (measured) = 1.10 W/kg



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2026/8/10

**W45\_802.11ax HE20\_CH165\_Rear Face\_1cm\_Ant\_WIFI**

**DUT: Smart Phone;**

Communication System: UID 10671 - AAA, IEEE 802.11ax (20MHz, MCS0, 90pc duty cycle); Frequency: 5825 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 5825$  MHz;  $\sigma = 5.226$  S/m;  $\epsilon_r = 34.193$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.4 °C; Liquid Temperature : 22.1 °C

**DASY Configuration:**

- Probe: EX3DV4 - SN7506; ConvF(4.66, 5.02, 4.63) @ 5825 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 23.0$
- Electronics: DAE4 Sn1557; Calibrated: 2025/11/21
- Phantom: SAM1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14(7483)

**Area Scan (9x15x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm  
Maximum value of SAR (measured) = 0.434 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0 V/m; Power Drift = -0.09 dB

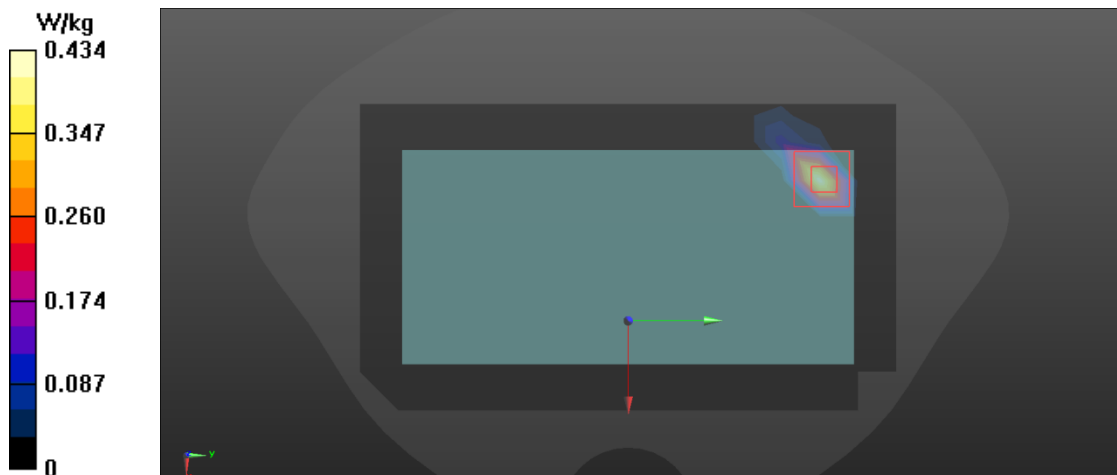
Peak SAR (extrapolated) = 0.547 W/kg

**SAR(1 g) = 0.226 W/kg; SAR(10 g) = 0.067 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.8 mm

Ratio of SAR at M2 to SAR at M1 = 52.6%

Maximum value of SAR (measured) = 0.390 W/kg



## Appendix C: Calibration Certificate for probe and Dipole

**Calibration Laboratory of  
Schmid & Partner  
Engineering AG**  
Zeughausstrasse 43, 8004 Zurich, Switzerland



**S** Schweizerischer Kalibrierdienst  
**C** Service suisse d'étalonnage  
**S** Servizio svizzero di taratura  
**S** Swiss Calibration Service

Accreditation No.: **SCS 0108**

Accredited by the Swiss Accreditation Service (SAS)  
The Swiss Accreditation Service is one of the signatories to the EA  
Multilateral Agreement for the recognition of calibration certificates

Client **TUV**  
**Shenzhen**

Certificate No. **D750V3-1109\_Jun24**

### CALIBRATION CERTIFICATE

Object **D750V3 - SN:1109**

Calibration procedure(s) **QA CAL-05.v12  
Calibration Procedure for SAR Validation Sources between 0.7-3 GHz**

Calibration date: **June 07, 2024**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).  
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature ( $22 \pm 3^\circ\text{C}$  and humidity  $< 70\%$ ).

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards               | ID #               | Cal Date (Certificate No.)        | Scheduled Calibration  |
|---------------------------------|--------------------|-----------------------------------|------------------------|
| Power meter NRP2                | SN: 104778         | 26-Mar-24 (No. 217-04036/04037)   | Mar-25                 |
| Power sensor NRP-Z91            | SN: 103244         | 26-Mar-24 (No. 217-04036)         | Mar-25                 |
| Power sensor NRP-Z91            | SN: 103245         | 26-Mar-24 (No. 217-04037)         | Mar-25                 |
| Reference 20 dB Attenuator      | SN: BH9394 (20k)   | 26-Mar-24 (No. 217-04046)         | Mar-25                 |
| Type-N mismatch combination     | SN: 310982 / 06327 | 26-Mar-24 (No. 217-04047)         | Mar-25                 |
| Reference Probe EX3DV4          | SN: 7349           | 03-Nov-23 (No. EX3-7349_Nov23)    | Nov-24                 |
| DAE4                            | SN: 601            | 22-May-24 (No. DAE4-601_May24)    | May-25                 |
| Secondary Standards             | ID #               | Check Date (in house)             | Scheduled Check        |
| Power meter E4419B              | SN: GB39512475     | 30-Oct-14 (in house check Oct-22) | In house check: Oct-24 |
| Power sensor HP 8481A           | SN: US37292783     | 07-Oct-15 (in house check Oct-22) | In house check: Oct-24 |
| Power sensor HP 8481A           | SN: MY41093315     | 07-Oct-15 (in house check Oct-22) | In house check: Oct-24 |
| RF generator R&S SMT-06         | SN: 100972         | 15-Jun-15 (in house check Oct-22) | In house check: Oct-24 |
| Network Analyzer Agilent E8358A | SN: US41080477     | 31-Mar-14 (in house check Oct-22) | In house check: Oct-24 |

Calibrated by: **Paulo Pina** **Laboratory Technician**

Approved by: **Sven Kühn** **Technical Manager**

Issued: June 7, 2024

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

**Calibration Laboratory of**  
**Schmid & Partner**  
**Engineering AG**  
Zeughausstrasse 43, 8004 Zurich, Switzerland



**S** Schweizerischer Kalibrierdienst  
**C** Service suisse d'étalonnage  
**S** Servizio svizzero di taratura  
**S** Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)  
The Swiss Accreditation Service is one of the signatories to the EA  
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

**Glossary:**

|       |                                 |
|-------|---------------------------------|
| TSL   | tissue simulating liquid        |
| ConvF | sensitivity in TSL / NORM x,y,z |
| N/A   | not applicable or not measured  |

**Calibration is Performed According to the Following Standards:**

- IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

**Additional Documentation:**

- DASY System Handbook

**Methods Applied and Interpretation of Parameters:**

- Measurement Conditions:** Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:** The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss:** These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay:** One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured:** SAR measured at the stated antenna input power.
- SAR normalized:** SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters:** The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor  $k=2$ , which for a normal distribution corresponds to a coverage probability of approximately 95%.

### Measurement Conditions

DASY system configuration, as far as not given on page 1.

|                              |                        |             |
|------------------------------|------------------------|-------------|
| DASY Version                 | DASY52                 | V52.10.4    |
| Extrapolation                | Advanced Extrapolation |             |
| Phantom                      | Modular Flat Phantom   |             |
| Distance Dipole Center - TSL | 15 mm                  | with Spacer |
| Zoom Scan Resolution         | dx, dy, dz = 5 mm      |             |
| Frequency                    | 750 MHz $\pm$ 1 MHz    |             |

### Head TSL parameters

The following parameters and calculations were applied.

|                                         | Temperature         | Permittivity   | Conductivity         |
|-----------------------------------------|---------------------|----------------|----------------------|
| Nominal Head TSL parameters             | 22.0 °C             | 41.9           | 0.89 mho/m           |
| Measured Head TSL parameters            | (22.0 $\pm$ 0.2) °C | 42.4 $\pm$ 6 % | 0.90 mho/m $\pm$ 6 % |
| Head TSL temperature change during test | < 0.5 °C            | ---            | ---                  |

### SAR result with Head TSL

| SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL | Condition          |                              |
|-------------------------------------------------------|--------------------|------------------------------|
| SAR measured                                          | 250 mW input power | 2.15 W/kg                    |
| SAR for nominal Head TSL parameters                   | normalized to 1W   | 8.53 W/kg $\pm$ 17.0 % (k=2) |

| SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL | condition          |                              |
|---------------------------------------------------------|--------------------|------------------------------|
| SAR measured                                            | 250 mW input power | 1.40 W/kg                    |
| SAR for nominal Head TSL parameters                     | normalized to 1W   | 5.58 W/kg $\pm$ 16.5 % (k=2) |

## Appendix (Additional assessments outside the scope of SCS 0108)

### Antenna Parameters with Head TSL

|                                      |                                |
|--------------------------------------|--------------------------------|
| Impedance, transformed to feed point | 54.0 $\Omega$ - 3.5 j $\Omega$ |
| Return Loss                          | - 25.9 dB                      |

### General Antenna Parameters and Design

|                                  |          |
|----------------------------------|----------|
| Electrical Delay (one direction) | 1.030 ns |
|----------------------------------|----------|

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

### Additional EUT Data

|                 |       |
|-----------------|-------|
| Manufactured by | SPEAG |
|-----------------|-------|