# FCC SAR Test Report

Product Name ： Mobile Computer

Model No. ： RS36

Applicant ： CipherLab Co., Ltd.

Address ： 12F, 333, Dunhua S.Rd., Sec.2, Taipei, Taiwan

Date of Receipt ： 2022/10/13

Issued Date ： 2023/04/12

Report No. ： 22A0299R-SAUSV01S-A

Report Version ： V1.0

# Test Report

Issued Date: 2023/04/12
Report No.: 22A0299R-SAUSV01S-A

| | | |
|---|---|---|
| Product Name | : | Mobile Computer |
| Applicant | : | CipherLab Co., Ltd. |
| Address | : | 12F, 333, Dunhua S.Rd., Sec.2, Taipei, Taiwan |
| Manufacturer | : | Cipherlab Co., Ltd. |
| Model No. | : | RS36 |
| Trade Name | : | CIPHERLAB |
| FCC ID | : | Q3N-RS36 |
| Applicable Standard | : | IEEE 1528-2013<br>KDB 447498 D01 v06<br>KDB 865664 D01 v01r04 |
| Measurement Procedures | : | 47CFR § 2.1093<br>KDB 248227 D01 v02r02<br>KDB 648474 D04 v01r03<br>KDB 941225 D01 v03r01<br>KDB 941225 D05 v02r05<br>KDB 941225 D06 v02r01 |
| Test Result | : | Max. SAR Measurement (1g)<br>WLAN: **1.087** W/kg<br>WWAN: **1.199** W/kg |
| Application Type | : | Certification |

The above equipment has been tested by DEKRA, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's SAR characteristics under the conditions specified in this report.

Documented By : April Chen
(Senior Project Specialist / April Chen)

Tested By : Luke Cheng
( Senior Engineer / Luke Cheng )

Approved By : San Lin
(Assistant Manager / San Lin)

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# Revision History

| Report No. | Version | Description | Issued Date |
|---|---|---|---|
| 22A0299R-SAUSV01S-A | V1.0 | Initial issue of report. | 2023/04/12 |

# 1. General Information

## 1.1 EUT Description

| | | | | |
|---|---|---|---|---|
| Product Name | Mobile Computer | | | |
| Trade Name | CIPHERLAB | | | |
| Model No. | RS36 | | | |
| FCC ID | Q3N-RS36 | | | |
| Frequency Range (Licensed) | GSM850/WCDMA B5/ LTE Band 5: 824-849MHz<br>PCS1900/WCDMA B2/ LTE Band 2: 1850-1910MHz<br>WCDMA B4/LTE Band 4: 1710-1755MHz<br>LTE Band 7: 2500-2570MHz, LTE Band 12: 699-716MHz<br>LTE Band 13: 777-787MHz, LTE Band 17: 704-716MHz<br>LTE Band 25: 1850-1915MHz, LTE Band 26: 814-849MHz<br>LTE Band 38: 2570-2620MHz, LTE Band 41: 2545-2655MHz<br>LTE Band 66: 1710-1780MHz | | | |
| Frequency Range | WLAN 2.4GHz: 2412-2462MHz<br>WLAN 5GHz: 5180-5240MHz, 5260-5320, 5500-5720MHz, 5745-5825MHz<br>BT: 2402-2480MHz | | | |
| Type of Modulation | 802.11b: DSSS<br>802.11a/g/n/ac: OFDM<br>GFSK(1Mbps) /π/4DQPSK(2Mbps) / 8DPSK(3Mbps)<br>WCDMA: RMC/AMR 12.2Kbps/HSDPA/HSUPA<br>LTE: QPSK/16QAM/64QAM | | | |
| Device Category | Portable | | | |
| RF Exposure Environment | Uncontrolled | | | |
| Summary of test result – Reported Head/Body 1g SAR (W/kg) | | | | |
| Test configuration | Licensed | DTS | NII | DSS(BT) |
| Head | 0.900 | 0.833 | 1.087 | 0.052 |
| Body | 1.199 | 0.211 | 0.338 | 0.015 |
| Simultaneous | 1.858 (SPLSR=0.033) | | | |
| Summary of test result – Reported Product Specific 10g SAR (W/kg) | | | | |
| Test configuration | Licensed | DTS | NII | DSS(BT) |
| Product Specific | N/A | 0.535 | 0.682 | 0.057 |
| Simultaneous | 0.702 | | | |
| | | | | |

## 1.2 Antenna List

| No. | Manufacturer | Part No. | Antenna Type |
|---|---|---|---|
| 1 | Auden | KZWLSLSVS0001 (WWAN Main) | PIFA |
| 2 | Auden | KZWLSLSVS0001 (WWAN Aux) | PIFA |
| 3 | Auden | BRS36ANT00001 (WLAN/BT) | PIFA |

Note: The above EUT information by manufacturer.

## 1.3 SAR Test Exclusion Calculation

Referring to KDB 941225 D06, when the distance from the antenna to the edge is > 25mm, SAR is not required.

| Antenna | Distance from the antenna to the edge | | | | | |
|---|---|---|---|---|---|---|
| | Front | Back | Left-side | Right-side | Top | Bottom |
| WWAN Main | < 25mm | < 25mm | < 25mm | < 25mm | > 25mm | < 25mm |
| | Yes | Yes | Yes | Yes | No | Yes |
| WLAN/BT | < 25mm | < 25mm | > 25mm | > 25mm | < 25mm | > 25mm |
| | Yes | Yes | No | Yes | Yes | No |

## 1.4 Test Environment

Ambient conditions in the laboratory:

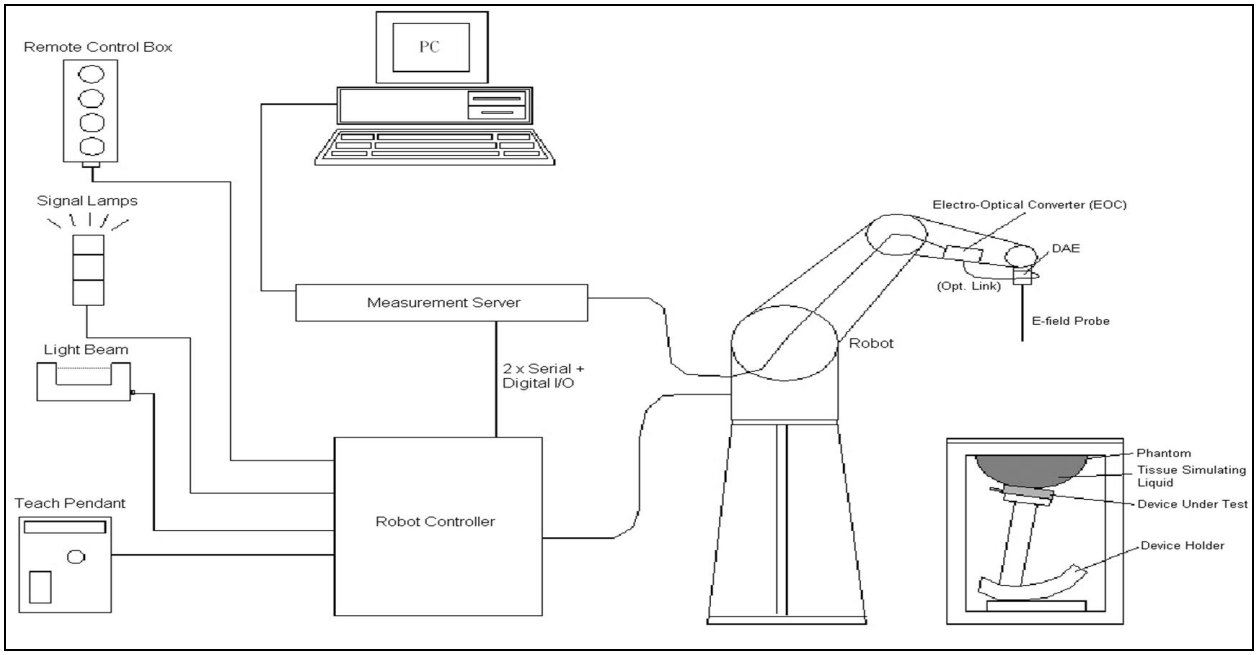
Test Date: 2022/12/10–2022/12/27

| Items | Required | Actual |
|---|---|---|
| Temperature (°C) | 18-25 | 23 ±2 |
| Humidity (%RH) | 30-70 | 50 ±20 |

| | | |
|---|---|---|
| USA | : | FCC Registration Number: TW0033 |
| Canada | : | CAB Identifier Number: TW3023 / Company Number: 26930 |
| Site Description | : | Accredited by TAF<br>Accredited Number: 3023 |
| Test Laboratory | : | DEKRA Testing and Certification Co., Ltd |
| Address | : | No. 26, Huaya 1st Rd., Guishan Dist.,<br>Taoyuan City 333411, Taiwan, R.O.C. |
| Phone Number | : | 886-3-275-7255 |
| Fax Number | : | 886-3-327-8031 |
| Email Address | : | info.tw@dekra.com |
| Website | : | http://www.dekra.com.tw |

# 2. SAR Measurement System

## 2.1 DASY5 System Description




The DASY5 system for performing compliance tests consists of the following items:

- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running WinXP and the DASY5 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

### 2.1.1 Applications

Predefined procedures and evaluations for automated compliance testing with all worldwide standards, e.g., IEEE 1528, OET 65, IEC 62209-1, IEC 62209-2, EN 50360, EN 50383 and others.

### 2.1.2 Area Scans

Area scans are defined prior to the measurement process being executed with a user defined variable spacing between each measurement point (integral) allowing low uncertainty measurements to be conducted. Scans defined for FCC applications utilize a 10mm² step integral, with 1mm interpolation used to locate the peak SAR area used for zoom scan assessments.

When an Area Scan has measured all reachable points, it computes the field maxima found in the scanned area, within a range of the global maximum. The range (in dB) is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE 1528-2013, EN 50361 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan).

### 2.1.3 Zoom Scan (Cube Scan Averaging)

Zoom Scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 g and 10 g of simulated tissue. A density of 1000 kg/m³ is used to represent the head and body tissue density and not the phantom liquid density, in order to be consistent with the definition of the liquid dielectric properties, i.e. the side length of the 1 g cube is 10mm, with the side length of the 10 g cube 21,5mm.

The zoom scan integer steps can be user defined so as to reduce uncertainty, but normal practice for typical test applications (including FCC) utilize a physical step of 5x5x7 (8mmx8mmx5mm) providing a volume of 32mm in the X & Y axis, and 30mm in the Z axis.

### 2.1.4 Uncertainty of Inter-/Extrapolation and Averaging

In order to evaluate the uncertainty of the interpolation, extrapolation and averaged SAR calculation algorithms of the Postprocessor, DASY5 allows the generation of measurement grids which are artificially predefined by analytically based test functions. Therefore, the grids of area scans and zoom scans can be filled with uncertainty test data, according to the SAR benchmark functions of IEEE 1528.The three analytical functions shown in equations as below are used to describe the possible range of the expected SAR distributions for the tested

handsets. The field gradients are covered by the spatially flat distribution f1, the spatially steep distribution f3 and f2 accounts for H-field cancellation on the phantom/tissue surface.

$$f_1(x,y,z) = Ae^{-\frac{z}{2a}}\cos^2\left(\frac{\pi}{2}\frac{\sqrt{x'^2+y'^2}}{5a}\right)$$

$$f_2(x,y,z) = Ae^{-\frac{z}{a}}\frac{a^2}{a^2+x'^2}\left(3-e^{-\frac{2z}{a}}\right)\cos^2\left(\frac{\pi}{2}\frac{y'}{3a}\right)$$

$$f_3(x,y,z) = A\frac{a^2}{\frac{a^2}{4}+x'^2+y'^2}\left(e^{-\frac{2z}{a}}+\frac{a^2}{2(a+2z)^2}\right)$$

### 2.2 DASY5 E-Field Probe

The SAR measurement is conducted with the dosimetric probe manufactured by SPEAG. 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.

SPEAG conducts the probe calibration in compliance with international and national standards (e.g. IEEE 1528, EN 62209-1, IEC 62209, etc.) under ISO 17025. The calibration data are in Appendix D.

#### 2.2.1 Isotropic E-Field Probe Specification

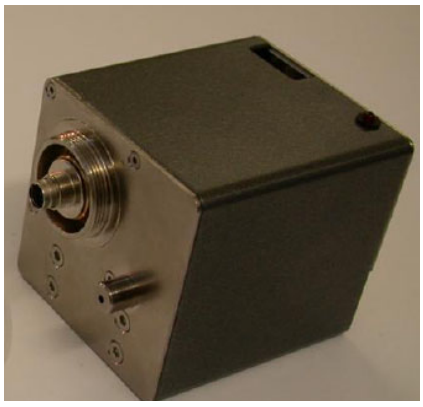
| **Model** | Ex3DV4 | |
|---|---|---|
| **Construction** | Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE) | |
| **Frequency** | 10 MHz to 6 GHz<br>Linearity: ± 0.2 dB (30 MHz to 6 GHz) |  |
| **Directivity** | ± 0.3 dB in HSL (rotation around probe axis)<br>± 0.5 dB in tissue material (rotation normal to probe axis) | |
| **Dynamic Range** | 10 µW/g to 100 mW/g<br>Linearity: ± 0.2 dB (noise: typically < 1 µW/g) | |
| **Dimensions** | Overall length: 330 mm (Tip: 20 mm)<br>Tip diameter: 2.5 mm (Body: 12 mm)<br>Typical distance from probe tip to dipole centers: 1 mm | |
| **Application** | High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%. | |

## 2.3 Boundary Detection Unit and Probe Mounting Device

The DASY probes use a precise connector and an additional holder for the probe, consisting of a plastic tube and a flexible silicon ring to center the probe. The connector at the DAE is flexibly mounted and held in the default position with magnets and springs. Two switching systems in the connector mount detect frontal and lateral probe collisions and trigger the necessary software response.

## 2.4 DATA Acquisition Electronics (DAE) and Measurement Server

The data acquisition electronics (DAE) consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit.
Transmission to the measurement server is accomplished through an optical downlink for data and status information as well as an optical uplink for commands and the clock.
The input impedance of the DAE4 is 200M Ohm; the inputs are symmetrical and floating. Common mode rejection is above 80dB.



The DASY5 measurement server is based on a PC/104 CPU board with a 400MHz intel ULV Celeron, 128MB chipdisk and 128MB RAM. The necessary circuits for communication with the DAE electronics box, as well as the 16 bit AD converter system for optical detection and digital I/O interface are contained on the DASY5 I/O board, which is directly connected to the PC/104 bus of the CPU board.

## 2.5 Robot

The DASY5 system uses the high precision robots TX90 XL type out of the newer series from Stäubli SA (France). For the 6-axis controller DASY5 system, the CS8C robot controller version from Stäubli is used.
The XL robot series have many features that are important for our application:

- High precision (repeatability 0.02 mm)
- High reliability (industrial design)
- Jerk-free straight movements
- Low ELF interference (the closed metallic construction shields against motor control fields)
- 6-axis controller

## 2.6 Light Beam Unit

The light beam switch allows automatic "tooling" of the probe. During the process, the actual position of the probe tip with respect to the robot arm is measured, as well as the probe length and the horizontal probe offset. The software then corrects all movements, such that the robot coordinates are valid for the probe tip.
The repeatability of this process is better than 0.1 mm. If a position has been taught with an aligned probe, the same position will be reached with another aligned probe within 0.1 mm, even if the other probe has different dimensions. During probe rotations, the probe tip will keep its actual position.

## 2.7 Device Holder

The DASY5 device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation center for both scales is the ear reference point (EPR).

Thus the device needs no repositioning when changing the angles.

The DASY5 device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity εr =3 and loss tangent δ = 0.02. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.

## 2.8 SAM Twin Phantom

The SAM twin phantom is a fiberglass shell phantom with 2mm shell thickness (except the ear region where shell thickness increases to 6mm). It has three measurement areas:

- Left head
- Right head
- Flat phantom

The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

# 3. Tissue Simulating Liquid

## 3.1 The composition of the tissue simulating liquid

The following tissue formulation is for reference only. The composition of the ingredients may be modified accordingly to achieve the target tissue parameters required for routine SAR evaluation.

| INGREDIENT (% Weight) | 750MHz Head | 1750MHz Head | 1950MHz Head | 2450MHz Head | 2600MHz Head | 5GHz Head |
|---|---|---|---|---|---|---|
| **Water** | 40.45 | 52.55 | 54.90 | 46.70 | 44.53 | 68.29 |
| **Salt** | 1.45 | 0.34 | 0.18 | 0 | 0.17 | 0 |
| **Sugar** | 57.60 | 0 | 0 | 0 | 0 | 0 |
| **HEC** | 0.40 | 0 | 0 | 0 | 0 | 0 |
| **Preventol** | 0.10 | 0 | 0 | 0 | 0 | 0 |
| **DGBE** | 0 | 47.50 | 44.92 | 53.30 | 55.30 | 2.44 |
| **Triton X-100** | 0 | 0 | 0 | 0 | 0 | 29.27 |

## 3.2 Tissue Calibration Result

The dielectric parameters of the liquids were verified prior to the SAR evaluation, using Dielectric Probe Kit andVector Network Analyzer.

| **Head Tissue Simulate Measurement** | | | | |
|---|---|---|---|---|
| Frequency [MHz] | Description | Dielectric Parameters | | Tissue Temp. [°C] |
| | | $\varepsilon_r$ | $\sigma$ [s/m] | |
| 750 MHz | Reference result ± 5% window | 41.9<br>39.81 to 44 | 0.89<br>0.85 to 0.93 | N/A |
| | 18-Dec-22 | 41.86 | 0.88 | 22.1 |
| 704 MHz | Channel 23060 | 42.33 | 0.87 | 22.1 |
| 707.5 MHz | Channel 23095 | 42.28 | 0.87 | 22.1 |
| 711 MHz | Channel 23130 | 42.24 | 0.88 | 22.1 |
| 782 MHz | Channel 23230 | 41.32 | 0.89 | 22.1 |
| 826.4 MHz | Channel 4132 | 40.75 | 0.91 | 22.1 |
| 831.5 MHz | Channel 26865 | 40.69 | 0.91 | 22.1 |
| 836.5 MHz | Channel 26915 | 40.62 | 0.91 | 22.1 |
| 836.6 MHz | Channel 4183 | 40.62 | 0.91 | 22.1 |
| 841.5 MHz | Channel 26965 | 40.56 | 0.92 | 22.1 |
| 846.6 MHz | Channel 4233 | 40.49 | 0.92 | 22.1 |

| Head Tissue Simulate Measurement | | | | |
|---|---|---|---|---|
| Frequency [MHz] | Description | Dielectric Parameters | | Tissue Temp. [°C] |
| | | $\varepsilon_r$ | $\sigma$ [s/m] | |
| 750 MHz | Reference result ± 5% window | 41.9<br>39.81 to 44 | 0.89<br>0.85 to 0.93 | N/A |
| | 27-Dec-22 | 41.88 | 0.87 | 22.2 |
| 824.2 MHz | Channel 128 | 40.95 | 0.89 | 22.2 |
| 836.4 MHz | Channel 189 | 40.81 | 0.89 | 22.2 |
| 848.8 MHz | Channel 251 | 40.65 | 0.90 | 22.2 |

| Head Tissue Simulate Measurement | | | | |
|---|---|---|---|---|
| Frequency [MHz] | Description | Dielectric Parameters | | Tissue Temp. [°C] |
| | | $\varepsilon$ r | $\sigma$ [s/m] | |
| 1750MHz | Reference result ± 5% window | 40.1<br>38.1 to 42.11 | 1.37<br>1.30 to 1.44 | N/A |
| | 27-Dec-22 | 39.59 | 1.37 | 22.2 |
| 1712.4 MHz | Channel 1312 | 39.93 | 1.36 | 22.2 |
| 1720 MHz | Channel 132072 | 39.86 | 1.37 | 22.2 |
| 1732.6 MHz | Channel 1413 | 39.75 | 1.37 | 22.2 |
| 1745 MHz | Channel 132322 | 39.63 | 1.37 | 22.2 |
| 1752.6 MHz | Channel 1513 | 39.56 | 1.38 | 22.2 |
| 1770 MHz | Channel 132572 | 39.41 | 1.38 | 22.2 |

| Head Tissue Simulate Measurement | | | | |
|---|---|---|---|---|
| Frequency [MHz] | Description | Dielectric Parameters | | Tissue Temp. [°C] |
| | | $\varepsilon$ r | $\sigma$ [s/m] | |
| 1950MHz | Reference result ± 5% window | 40<br>38 to 42 | 1.4<br>1.33 to 1.47 | N/A |
| | 17-Dec-22 | 39.54 | 1.39 | 21.7 |
| 1852.4 MHz | Channel 9262 | 40.47 | 1.36 | 21.7 |
| 1860 MHz | Channel 26140 | 40.41 | 1.36 | 21.7 |
| 1880 MHz | Channel 9400 | 40.21 | 1.37 | 21.7 |
| 1882.5 MHz | Channel 26365 | 40.18 | 1.37 | 21.7 |
| 1905 MHz | Channel 26590 | 39.54 | 1.38 | 21.7 |
| 1907.6 MHz | Channel 9538 | 39.94 | 1.38 | 21.7 |

| Head Tissue Simulate Measurement | | | | |
|---|---|---|---|---|
| Frequency [MHz] | Description | Dielectric Parameters | | Tissue Temp. [°C] |
| | | ε r | σ [s/m] | |
| 1950MHz | Reference result ± 5% window | 40 38 to 42 | 1.4 1.33 to 1.47 | N/A |
| | 27-Dec-22 | 38.81 | 1.42 | 22.2 |
| 1850.2 MHz | Channel 512 | 39.11 | 1.40 | 22.2 |
| 1880 MHz | Channel 661 | 39.02 | 1.41 | 22.2 |
| 1909.8 MHz | Channel 810 | 38.96 | 1.41 | 22.2 |

| Head Tissue Simulate Measurement | | | | |
|---|---|---|---|---|
| Frequency [MHz] | Description | Dielectric Parameters | | Tissue Temp. [°C] |
| | | $\varepsilon_r$ | σ [s/m] | |
| 2450 MHz | Reference result ± 5% window | 39.2 37.24 to 41.16 | 1.8 1.71 to 1.89 | N/A |
| | 12-Dec-22 | 39.98 | 1.79 | 21.9 |
| 2402 MHz | Channel 0 | 40.16 | 1.73 | 21.9 |
| 2412 MHz | Channel 1 | 40.13 | 1.74 | 21.9 |
| 2437 MHz | Channel 6 | 40.03 | 1.77 | 21.9 |
| 2462 MHz | Channel 11 | 39.94 | 1.81 | 21.9 |

| Head Tissue Simulate Measurement | | | | |
|---|---|---|---|---|
| Frequency [MHz] | Description | Dielectric Parameters | | Tissue Temp. [°C] |
| | | ε r | σ [s/m] | |
| 2600 MHz | Reference result ± 5% window | 39 37.05 to 40.95 | 1.96 1.86 to 2.06 | N/A |
| | 17-Dec-22 | 38.01 | 1.95 | 21.7 |
| 2510 MHz | Channel 20850 | 38.97 | 1.91 | 21.7 |
| 2535 MHz | Channel 21100 | 38.67 | 1.92 | 21.7 |
| 2560 MHz | Channel 21350 | 38.38 | 1.93 | 21.7 |
| 2555 MHz | Channel 40240 | 38.44 | 1.93 | 21.7 |
| 2593 MHz | Channel 40620 | 38.09 | 1.95 | 21.7 |
| 2645 MHz | Channel 41140 | 37.89 | 1.97 | 21.7 |

| Head Tissue Simulate Measurement | | | | |
|---|---|---|---|---|
| Frequency [MHz] | Description | Dielectric Parameters | | Tissue Temp. [°C] |
| | | ε r | σ [s/m] | |
| 5250MHz | Reference result ± 5% window | 35.95<br>34.15 to 37.75 | 4.71<br>4.47 to 4.95 | N/A |
| | 10-Dec-22 | 35.96 | 4.58 | 21.8 |
| 5210 MHz | Channel 42 | 36.07 | 4.53 | 21.8 |
| 5290 MHz | Channel 58 | 35.85 | 4.64 | 21.8 |

| Head Tissue Simulate Measurement | | | | |
|---|---|---|---|---|
| Frequency [MHz] | Description | Dielectric Parameters | | Tissue Temp. [°C] |
| | | ε r | σ [s/m] | |
| 5600MHz | Reference result ± 5% window | 35.5<br>33.73 to 37.28 | 5.07<br>4.82 to 5.32 | N/A |
| | 10-Dec-22 | 34.99 | 5.06 | 21.8 |
| 5530 MHz | Channel 106 | 35.18 | 4.97 | 21.8 |
| 5610 MHz | Channel 122 | 34.96 | 5.07 | 21.8 |
| 5690 MHz | Channel 138 | 34.75 | 5.17 | 21.8 |

| Head Tissue Simulate Measurement | | | | |
|---|---|---|---|---|
| Frequency [MHz] | Description | Dielectric Parameters | | Tissue Temp. [°C] |
| | | ε r | σ [s/m] | |
| 5800MHz | Reference result ± 5% window | 35.3<br>33.54 to 37.07 | 5.27<br>5.01 to 5.53 | N/A |
| | 10-Dec-22 | 34.44 | 5.32 | 21.8 |
| 5775 MHz | Channel 155 | 34.51 | 5.29 | 21.8 |

### 3.3 Tissue Dielectric Parameters for Head and Body Phantoms

The head tissue dielectric parameters recommended by the IEC 62209-1 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness variations in a human head. Other head tissue parameters that have not been specified are interpolated according to the head parameters specified in IEC 62209-1

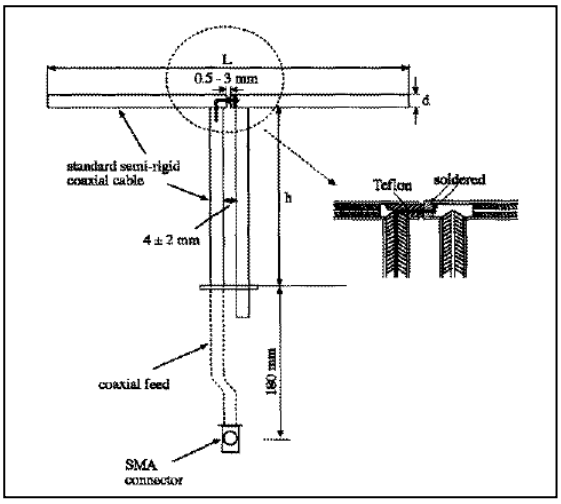
| Target Frequency | Head | |
|---|---|---|
| (MHz) | $\varepsilon_r$ | $\sigma$ (S/m) |
| 300 | 45.3 | 0.87 |
| 450 | 43.5 | 0.87 |
| 750 | 41.9 | 0.89 |
| 835 | 41.5 | 0.90 |
| 900 | 41.5 | 0.97 |
| 1450 | 40.5 | 1.20 |
| 1640 | 40.2 | 1.31 |
| 1750 | 40.1 | 1.37 |
| 1800 – 2000 | 40.0 | 1.40 |
| 2450 | 39.2 | 1.80 |
| 3000 | 38.5 | 2.40 |
| 5000 | 36.2 | 4.45 |
| 5200 | 36.0 | 4.66 |
| 5400 | 35.8 | 4.86 |
| 5600 | 35.3 | 5.27 |
| 5800 | 35.3 | 5.27 |
| 6000 | 35.1 | 5.48 |

($\varepsilon_r$ = relative permittivity, $\sigma$ = conductivity and $\rho$ = 1000 kg/m$^3$)

# 4. SAR Measurement Procedure

## 4.1 SAR System Check

### 4.1.1 Dipoles




The dipoles used is based on the IEEE-1528 standard, and is complied with mechanical and electrical specifications in line with the requirements of both IEEE and FCC Supplement C. the table below provides details for the mechanical and electrical specifications for the dipoles.

| Frequency | L (mm) | h (mm) | d (mm) |
|---|---|---|---|
| 750MHz | 176.0 | 100.0 | 6.35 |
| 1750MHz | 75.2 | 42.9 | 3.6 |
| 1950MHz | 66.3 | 38.5 | 3.6 |
| 2300MHz | 55.5 | 32.6 | 3.6 |
| 2450MHz | 51.5 | 30.4 | 3.6 |
| 2600MHz | 48.5 | 28.8 | 3.6 |
| 5200M~5800MHz | 20.6 | 40.3 | 3.6 |

### 4.1.2 System Check Result

**System Performance Check at 750MHz, 1750MHz, 1950MHz**

**Dipole Kit: D750V3**

| Frequency [MHz] | Description | SAR [w/kg] 1g | SAR [w/kg] 10g | Tissue Temp. [°C] |
|---|---|---|---|---|
| 750 MHz | Reference result ± 10% window | 8.58 7.72 to 9.44 | 5.61 5.05 to 6.17 | N/A |
| | 18-Dec-22 | 8.16 | 5.32 | 22.1 |
| | 27-Dec-22 | 8.36 | 5.16 | 22.2 |

**Dipole Kit: D1750V2**

| Frequency [MHz] | Description | SAR [w/kg] 1g | SAR [w/kg] 10g | Tissue Temp. [°C] |
|---|---|---|---|---|
| 1750 MHz | Reference result ± 10% window | 36.7 33.03 to 40.37 | 19.3 17.37 to 21.23 | N/A |
| | 27-Dec-22 | 34.76 | 18.28 | 22.2 |

**Dipole Kit: D1950V3**

| Frequency [MHz] | Description | SAR [w/kg] 1g | SAR [w/kg] 10g | Tissue Temp. [°C] |
|---|---|---|---|---|
| 1950 MHz | Reference result ± 10% window | 40.1 36.09 to 44.11 | 20.8 18.72 to 22.88 | N/A |
| | 17-Dec-22 | 42 | 21.76 | 21.7 |
| | 27-Dec-22 | 40.4 | 21.24 | 22.2 |

Note: (1) The power level is used 250mW
(2) All SAR values are normalized to 1W forward power.
(3) The reference result is from Appendix E.

**System Performance Check at 2450MHz, 2600MHz**

**Dipole Kit: D2450V2**

| Frequency [MHz] | Description | SAR [w/kg] 1g | SAR [w/kg] 10g | Tissue Temp. [°C] |
|---|---|---|---|---|
| 2450 MHz | Reference result ± 10% window | 53.1 47.79 to 58.41 | 24.8 22.32 to 27.28 | N/A |
| | 12-Dec-22 | 53.2 | 24.32 | 21.9 |

**Dipole Kit: D2600V2**

| Frequency [MHz] | Description | SAR [w/kg] 1g | SAR [w/kg] 10g | Tissue Temp. [°C] |
|---|---|---|---|---|
| 2600 MHz | Reference result ± 10% window | 54.50 49.05 to 59.95 | 24.60 22.14 to 27.06 | N/A |
| | 17-Dec-22 | 58.4 | 25.92 | 21.7 |

Note: (1) The power level is used 250mW
(2) All SAR values are normalized to 1W forward power.
(3) The reference result is from Appendix E.

**System Performance Check at 5250MHz, 5600MHz and 5800MHz**

**Dipole Kit: D5GHzV2**

| Frequency [MHz] | Description | SAR [w/kg] 1g | SAR [w/kg] 10g | Tissue Temp. [°C] |
|---|---|---|---|---|
| 5250 MHz | Reference result ± 10% window | 81.6 73.44 to 89.76 | 23.2 20.88 to 25.52 | N/A |
| | 10-Dec-22 | 84.2 | 23.9 | 21.8 |
| Frequency [MHz] | Description | SAR [w/kg] 1g | SAR [w/kg] 10g | Tissue Temp. [°C] |
| 5600 MHz | Reference result ± 10% window | 85.9 77.31 to 94.49 | 24.2 21.78 to 26.62 | N/A |
| | 10-Dec-22 | 89.8 | 25.3 | 21.8 |
| Frequency [MHz] | Description | SAR [w/kg] 1g | SAR [w/kg] 10g | Tissue Temp. [°C] |
| 5800 MHz | Reference result ± 10% window | 82.0 73.80 to 90.20 | 22.8 20.52 to 25.08 | N/A |
| | 10-Dec-22 | 86.8 | 24.5 | 21.8 |

Note: (1) The power level is used 100mW
(2) All SAR values are normalized to 1W forward power.
(3) The reference result is from Appendix E.

### 4.2 SAR Measurement Procedure

The Dasy5 calculates SAR using the following equation,

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

σ: represents the simulated tissue conductivity

ρ: represents the tissue density

The EUT is set to transmit at the required power in line with product specification, at each frequency relating to the LOW, MID, and HIGH channel settings.

Pre-scans are made on the device to establish the location for the transmitting antenna, using a large area scan in either air or tissue simulation fluid.

The EUT is placed against the Universal Phantom where the maximum area scan dimensions are larger than the physical size of the resonating antenna. When the scan size is not large enough to cover the peak SAR distribution, it is modified by either extending the area scan size in both the X and Y directions, or the device is shifted within the predefined area.

The area scan is then run to establish the peak SAR location (interpolated resolution set at 1mm² )which is then used to orient the center of the zoom scan. The zoom scan is then executed and the 1g and 10g averages are derived from the zoom scan volume (interpolated resolution set at 1mm³).

## 5. SAR Exposure Limits

SAR assessments have been made in line with the requirements of IEEE-1528, FCC Supplement C, and comply with ANSI/IEEE C95.1-1992 “Uncontrolled Environments” limits. These limits apply to a location which is deemed as “Uncontrolled Environment” which can be described as a situation where the general public may be exposed to an RF source with no prior knowledge or control over their exposure.

**Limits for General Population/Uncontrolled Exposure (W/kg)**

| Type Exposure | Uncontrolled Environment Limit |
|---|---|
| Spatial Peak SAR (1g cube tissue for brain or body) | **1.60 W/kg** |
| Spatial Average SAR (whole body) | **0.08 W/kg** |
| Spatial Peak SAR (10g for hands, feet, ankles and wrist) | **4.00 W/kg** |

# 6. Test Equipment List

| Instrument | Manufacturer | Model No. | Serial No. | Last Calibration | Next Calibration |
|---|---|---|---|---|---|
| Reference Dipole 750MHz | Speag | D750V3 | 1031 | 2020/05/27 | 2023/05/26 |
| Reference Dipole 1750MHz | Speag | D1750V2 | 1113 | 2022/11/21 | 2025/11/20 |
| Reference Dipole 1950MHz | Speag | D1950V3 | 1213 | 2022/11/18 | 2025/11/17 |
| Reference Dipole 2600MHz | Aprel | ALS-D-2600-S-2 | QTK-225 | 2022/05/25 | 2025/05/24 |
| Reference Dipole 2450MHz | Speag | D2450V2 | 1053 | 2021/02/10 | 2024/02/09 |
| Reference Dipole 5GHz | Speag | D5GHzV2 | 1041 | 2020/05/25 | 2023/05/24 |
| Device Holder | Speag | N/A | N/A | N/A | N/A |
| Data Acquisition Electronic | Speag | DAE4 | 1425 | 2022/11/23 | 2023/11/22 |
| E-Field Probe | Speag | EX3DV4 | 3979 | 2022/11/23 | 2023/11/22 |
| Power Amplifier | Mini-Circuit | ZHL-42 | D051404-20 | N/A | N/A |
| Power Amplifier | Mini-Circuit | ZVE-8G+ | 447202211 | N/A | N/A |
| Directional Coupler | Agilent | 87300C | MY44300353 | N/A | N/A[1] |
| Attenuator | Woken | WATT-218FS-10 | N/A | N/A | N/A[1] |
| Attenuator | Mini-Circuit | BW-S20W2+ | N/A | N/A | N/A[1] |
| Universal Radio Communication | R&S | CMU200 | 113574 | 2022/06/06 | 2023/06/05 |
| Universal Radio Communication | Anritsu | MT8820C | 6201465467 | 2022/08/10 | 2023/08/09 |
| Vector Network Analyzer | Agilent | E5071C | MY46108013 | 2022/02/25 | 2023/02/24 |
| Signal Generator | Anritsu | MG3694A | 041902 | 2022/08/30 | 2023/08/29 |
| Power Meter | Anritsu | ML2487A | 6K00001447 | 2022/10/31 | 2023/10/30 |
| Power Sensor | Anritsu | MA2411B | 1339194 | 2022/10/31 | 2023/10/30 |

Note: 1. System Check, the path loss measured by the network analyzer, includes the signal generator, amplifier, cable, attenuator and directional coupler.

Note:

Per KDB 865664 D01 requirements for dipole calibration, the following are recommended FCC procedures for SAR dipole calibration.

1. After a dipole is damaged and properly repaired to meet required specifications

2. When the measured SAR deviates from the calibrated SAR value by more than 10% due to changes in physical, mechanical, electrical or other relevant dipole conditions;

3. When the most recent return-loss, measured at least annually, deviates by more than 20% from the previous measurement (i.e. 0.2 of the dB value) or not meeting the required -20 dB return-loss specification

| | Frequency | Tissue | Return loss | Limit | Date |
|---|---|---|---|---|---|
| Calibration | 750 MHz | Head | -27.8 | Within 20% | 2020/5/27 |
| Measurement | 750 MHz | Head | -24.15 | | 2021/5/26 |
| Measurement | 750 MHz | Head | -24.02 | | 2022/5/25 |

| | Frequency | Tissue | Return loss | Limit | Date |
|---|---|---|---|---|---|
| Calibration | 2450 MHz | Head | -24.2 | Within 20% | 2021/2/10 |
| Measurement | 2450 MHz | Head | -24.69 | | 2022/2/14 |

| | Frequency | Tissue | Return loss | Limit | Date |
|---|---|---|---|---|---|
| Calibration | 5250 MHz | Head | -26.9 | Within 20% | 2020/5/25 |
| Measurement | 5250 MHz | Head | -24.16 | | 2021/5/18 |
| Measurement | 5250 MHz | Head | -25.46 | | 2022/5/17 |

| | Frequency | Tissue | Return loss | Limit | Date |
|---|---|---|---|---|---|
| Calibration | 5600 MHz | Head | -24.4 | Within 20% | 2020/5/25 |
| Measurement | 5600 MHz | Head | -27.05 | | 2021/5/18 |
| Measurement | 5600 MHz | Head | -24.46 | | 2022/5/17 |

| | Frequency | Tissue | Return loss | Limit | Date |
|---|---|---|---|---|---|
| Calibration | 5800 MHz | Head | -26.8 | Within 20% | 2020/5/25 |
| Measurement | 5800 MHz | Head | -25.64 | | 2021/5/18 |
| Measurement | 5800 MHz | Head | -24.88 | | 2022/5/17 |

4. When the most recent measurement of the real or imaginary parts of the impedance, measured at least annually, deviates by more than 5 Ω from the previous measurement

| | Frequency | Tissue | Impedance | Limit | Date |
|---|---|---|---|---|---|
| Calibration | 750 MHz | Head | 53.8 | Within 5Ω | 2020/5/27 |
| Measurement | 750 MHz | Head | 50.62 | | 2021/5/26 |
| Measurement | 750 MHz | Head | 51.49 | | 2022/5/25 |

| | Frequency | Tissue | Impedance | Limit | Date |
|---|---|---|---|---|---|
| Calibration | 2450 MHz | Head | 52.7 | Within 5Ω | 2021/2/10 |
| Measurement | 2450 MHz | Head | 53.26 | | 2022/2/14 |

| | Frequency | Tissue | Impedance | Limit | Date |
|---|---|---|---|---|---|
| Calibration | 5250 MHz | Head | 49.0 | Within 5Ω | 2020/5/25 |
| Measurement | 5250 MHz | Head | 45.54 | | 2021/5/18 |
| Measurement | 5250 MHz | Head | 50.45 | | 2022/5/17 |

| | Frequency | Tissue | Impedance | Limit | Date |
|---|---|---|---|---|---|
| Calibration | 5600 MHz | Head | 56.3 | Within 5Ω | 2020/5/25 |
| Measurement | 5600 MHz | Head | 52.24 | | 2021/5/18 |
| Measurement | 5600 MHz | Head | 55.41 | | 2022/5/17 |

| | Frequency | Tissue | Impedance | Limit | Date |
|---|---|---|---|---|---|
| Calibration | 5800 MHz | Head | 54.3 | Within 5Ω | 2020/5/25 |
| Measurement | 5800 MHz | Head | 49.85 | | 2021/5/18 |
| Measurement | 5800 MHz | Head | 56.96 | | 2022/5/17 |

# 7. Measurement Uncertainty

| Measurement uncertainty for 30 MHz to 3 GHz | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Error Description | Uncert. value | Prob. Dist. | Div. | (ci) 1g | (ci) 10g | Std. Unc. (1g) | Std. Unc. (10g) | (vi) veff |
| **Measurement System** | | | | | | | | |
| Probe Calibration | ±6% | N | 1 | 1 | 1 | ±6.0% | ±6.0% | ∞ |
| Axial Isotropy | ±4.7% | R | √3 | 0.7 | 0.7 | ±1.9% | ±1.9% | ∞ |
| Hemispherical Isotropy | ±9.6% | R | √3 | 0.7 | 0.7 | ±3.9% | ±3.9% | ∞ |
| Boundary Effects | ±1.0% | R | √3 | 1 | 1 | ±0.6% | ±0.6% | ∞ |
| Linearity | ±4.7% | R | √3 | 1 | 1 | ±2.7% | ±2.7% | ∞ |
| System Detection Limits | ±1.0% | R | √3 | 1 | 1 | ±0.6% | ±0.6% | ∞ |
| Modulation Response | ±2.4% | R | √3 | 1 | 1 | ±1.4% | ±1.4% | ∞ |
| Readout Electronics | ±0.3% | N | 1 | 1 | 1 | ±0.3% | ±0.3% | ∞ |
| Response Time | ±0.8% | R | √3 | 1 | 1 | ±0.5% | ±0.5% | ∞ |
| Integration Time | ±2.6% | R | √3 | 1 | 1 | ±1.5% | ±1.5% | ∞ |
| RF Ambient Noise | ±3.0% | R | √3 | 1 | 1 | ±1.7% | ±1.7% | ∞ |
| RF Ambient Reflections | ±3.0% | R | √3 | 1 | 1 | ±1.7% | ±1.7% | ∞ |
| Probe Positioner | ±0.4% | R | √3 | 1 | 1 | ±0.2% | ±0.2% | ∞ |
| Probe Positioning | ±2.9% | R | √3 | 1 | 1 | ±1.7% | ±1.7% | ∞ |
| Max. SAR Eval. | ±4.0% | R | √3 | 1 | 1 | ±1.2% | ±1.2% | ∞ |
| **Test Sample Related** | | | | | | | | |
| Device Positioning | ±2.9% | N | 1 | 1 | 1 | ±2.9% | ±2.9% | 145 |
| Device Holder | ±3.6% | N | 1 | 1 | 1 | ±3.6% | ±3.6% | 5 |
| Power Drift | ±5.0% | R | √3 | 1 | 1 | ±2.9% | ±2.9% | ∞ |
| Power Scaling | ±0% | R | √3 | 1 | 1 | ±0.0% | ±0.0% | |
| **Phantom and Setup** | | | | | | | | |
| Phantom Uncertainty | ±6.1% | R | √3 | 1 | 1 | ±3.5% | ±3.5% | ∞ |
| SAR correction | ±1.9% | R | √3 | 1 | 0.84 | ±1.1% | ±0.9% | ∞ |
| Liquid Conductivity (meas.) | ±2.5% | R | √3 | 0.78 | 0.71 | ±1.1% | ±1.0% | ∞ |
| Liquid Permittivity (meas.) | ±2.5% | R | √3 | 0.26 | 0.26 | ±0.3% | ±0.4% | ∞ |
| Temp. unc. - Conductivity | ±3.4% | R | √3 | 0.78 | 0.71 | ±1.5% | ±1.4% | ∞ |
| Temp. unc. - Permittivity | ±0.4% | R | √3 | 0.23 | 0.26 | ±0.1% | ±0.1% | ∞ |
| **Combined Std. Uncertainty** | | | | | | ±11.2% | ±11.1% | 361 |
| **Expanded STD Uncertainty** | | | | | | ±22.3% | ±22.2% | |

| Measurement uncertainty for 3GHz to 6 GHz | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Error Description | Uncert. value | Prob. Dist. | Div. | (ci) 1g | (ci) 10g | Std. Unc. (1g) | Std. Unc. (10g) | (vi) veff |
| **Measurement System** | | | | | | | | |
| Probe Calibration | ±6.55% | N | 1 | 1 | 1 | ±6.55% | ±6.55% | ∞ |
| Axial Isotropy | ±4.7% | R | √3 | 0.7 | 0.7 | ±1.9% | ±1.9% | ∞ |
| Hemispherical Isotropy | ±9.6% | R | √3 | 0.7 | 0.7 | ±3.9% | ±3.9% | ∞ |
| Boundary Effects | ±2.0% | R | √3 | 1 | 1 | ±1.2% | ±1.2% | ∞ |
| Linearity | ±4.7% | R | √3 | 1 | 1 | ±2.7% | ±2.7% | ∞ |
| System Detection Limits | ±1.0% | R | √3 | 1 | 1 | ±0.6% | ±0.6% | ∞ |
| Modulation Response | ±2.4% | R | √3 | 1 | 1 | ±1.4% | ±1.4% | ∞ |
| Readout Electronics | ±0.3% | N | 1 | 1 | 1 | ±0.3% | ±0.3% | ∞ |
| Response Time | ±0.8% | R | √3 | 1 | 1 | ±0.5% | ±0.5% | ∞ |
| Integration Time | ±2.6% | R | √3 | 1 | 1 | ±1.5% | ±1.5% | ∞ |
| RF Ambient Noise | ±3.0% | R | √3 | 1 | 1 | ±1.7% | ±1.7% | ∞ |
| RF Ambient Reflections | ±3.0% | R | √3 | 1 | 1 | ±1.7% | ±1.7% | ∞ |
| Probe Positioner | ±0.8% | R | √3 | 1 | 1 | ±0.5% | ±0.5% | ∞ |
| Probe Positioning | ±6.7% | R | √3 | 1 | 1 | ±3.9% | ±3.9% | ∞ |
| Post-processing | ±4.0% | R | √3 | 1 | 1 | ±2.3% | ±2.3% | ∞ |
| **Test Sample Related** | | | | | | | | |
| Device Positioning | ±2.9% | N | 1 | 1 | 1 | ±2.9% | ±2.9% | 145 |
| Device Holder | ±3.6% | N | 1 | 1 | 1 | ±3.6% | ±3.6% | 5 |
| Power Drift | ±5.0% | R | √3 | 1 | 1 | ±2.9% | ±2.9% | ∞ |
| Power Scaling | ±0% | R | √3 | 1 | 1 | ±0.0% | ±0.0% | |
| **Phantom and Setup** | | | | | | | | |
| Phantom Uncertainty | ±6.6% | R | √3 | 1 | 1 | ±3.8% | ±3.8% | ∞ |
| SAR correction | ±1.9% | R | √3 | 1 | 1 | ±1.1% | ±0.9% | ∞ |
| Liquid Conductivity (meas.) | ±2.5% | R | √3 | 1 | 0.84 | ±1.1% | ±1.0% | ∞ |
| Liquid Permittivity (meas.) | ±2.5% | R | √3 | 0.26 | 0.26 | ±0.3% | ±0.4% | ∞ |
| Temp. unc. - Conductivity | ±3.4% | R | √3 | 0.78 | 0.71 | ±1.5% | ±1.4% | ∞ |
| Temp. unc. - Permittivity | ±0.4% | R | √3 | 0.23 | 0.26 | ±0.1% | ±0.1% | ∞ |
| **Combined Std. Uncertainty** | | | | | | ±12.3% | ±12.2% | 748 |
| **Expanded STD Uncertainty** | | | | | | ±24.6% | ±24.5% | |

# 8. Conducted Power Measurement (Including tolerance allowed for production unit)

| Mode | | Maximum Output Power (dBm) (Including tolerance) |
|---|---|---|
| WLAN 2.4GHz | DTS | 18 |
| WLAN 5GHz | NII | 14.5 |
| Bluetooth | BR | 8 |
| GSM850 | VOICE | 34 |
| | GPRS Class 8 | 34 |
| | GPRS Class 10 | 32.5 |
| | GPRS Class 11 | 31 |
| | GPRS Class 12 | 30 |
| PCS1900 | VOICE | 30.5 |
| | GPRS Class 8 | 30.5 |
| | GPRS Class 10 | 30 |
| | GPRS Class 11 | 29 |
| | GPRS Class 12 | 28 |
| WCDMA B2 | RMC | 24 |
| | HSDPA | 22.5 |
| | HSUPA | 21.5 |
| WCDMA B4 | RMC | 19 |
| | HSDPA | 19 |
| | HSUPA | 18.5 |
| WCDMA B5 | RMC | 25 |
| | HSDPA | 23 |
| | HSUPA | 22.5 |
| LTE Band 2 | QPSK | 23 |
| LTE Band 4 | QPSK | 19 |
| LTE Band 5 | QPSK | 24 |
| LTE Band 7 | QPSK | 20 |
| LTE Band 12 | QPSK | 24.5 |
| LTE Band 13 | QPSK | 24.5 |
| LTE Band 17 | QPSK | 24.5 |
| LTE Band 25 | QPSK | 23 |
| LTE Band 26 | QPSK | 24 |
| LTE Band 38 | QPSK | 23 |
| LTE Band 41 | QPSK | 23 |
| LTE Band 66 | QPSK | 19 |

| WLAN 2.4G 1TX SISO | | | | | | |
|---|---|---|---|---|---|---|
| DSSS/OFDM mode specified maximum output power at an antenna port | Frequency | Mode | BW | SISO-Main(TX1) | | |
| | | | | CH | AV Power | AV Target |
| | WLAN 2.4GHz | b | 20 | 1 | 17.88 | 18 |
| | | | | 6 | 17.92 | 18 |
| | | | | 11 | 17.85 | 18 |
| | | g | 20 | 1 | 17.85 | 18 |
| | | | | 6 | 17.89 | 18 |
| | | | | 11 | 17.82 | 18 |
| | | n (HT) | 20 | 1 | 17.83 | 18 |
| | | | | 6 | 17.87 | 18 |
| | | | | 11 | 17.79 | 18 |
| | | | 40 | 3 | 15.66 | 16 |
| | | | | 6 | 17.81 | 18 |
| | | | | 9 | 16.16 | 16.5 |

WLAN 5G 1TX SISO

OFDM mode specified maximum output power at an antenna port

| Frequency | Mode | BW | SISO-Main(TX1) CH | AV Power | AV Target |
|---|---|---|---|---|---|
| U-NII-1 (5150~5250MHz) | a | 20 | 36 | 14.26 | 14.5 |
| | | | 40 | 14.13 | 14.5 |
| | | | 44 | 14.24 | 14.5 |
| | | | 48 | 14.29 | 14.5 |
| | n (HT) | 20 | 36 | 14.28 | 14.5 |
| | | | 40 | 13.93 | 14.5 |
| | | | 44 | 14.26 | 14.5 |
| | | | 48 | 14.23 | 14.5 |
| | | 40 | 38 | 14.23 | 14.5 |
| | | | 46 | 14.19 | 14.5 |
| | ac(VHT) | 80 | 42 | 14.43 | 14.5 |
| U-NII-2A (5250~5350MHz) | a | 20 | 52 | 14.27 | 14.5 |
| | | | 56 | 14.06 | 14.5 |
| | | | 60 | 14.26 | 14.5 |
| | | | 64 | 14.24 | 14.5 |
| | n (HT) | 20 | 52 | 14.27 | 14.5 |
| | | | 56 | 13.94 | 14.5 |
| | | | 60 | 14.23 | 14.5 |
| | | | 64 | 14.28 | 14.5 |
| | | 40 | 54 | 14.16 | 14.5 |
| | | | 62 | 14.22 | 14.5 |
| | ac (VHT) | 80 | 58 | 14.44 | 14.5 |
| U-NII-2C (5470~5725MHz) | a | 20 | 100 | 14.21 | 14.5 |
| | | | 112 | 14.06 | 14.5 |
| | | | 116 | 14.40 | 14.5 |
| | | | 128 | 14.06 | 14.5 |
| | | | 132 | 14.05 | 14.5 |
| | n (HT) | 20 | 100 | 14.25 | 14.5 |
| | | | 112 | 14.02 | 14.5 |
| | | | 116 | 14.41 | 14.5 |
| | | | 128 | 14.02 | 14.5 |
| | | | 132 | 13.93 | 14.5 |
| | | 40 | 102 | 14.22 | 14.5 |
| | | | 110 | 14.28 | 14.5 |
| | | | 118 | 13.92 | 14.5 |
| | | | 126 | 14.03 | 14.5 |
| | | | 134 | 14.22 | 14.5 |
| | ac (VHT) | 20 | 144 | 14.07 | 14.5 |
| | | 40 | 142 | 14.03 | 14.5 |
| | | 80 | 106 | 14.31 | 14.5 |
| | | | 122 | 14.43 | 14.5 |
| | | | 138 | 14.43 | 14.5 |
| U-NII-3 (5725~5850MHz) | a | 20 | 149 | 14.27 | 14.5 |
| | | | 157 | 14.28 | 14.5 |
| | | | 165 | 14.27 | 14.5 |
| | n (HT) | 20 | 149 | 14.26 | 14.5 |
| | | | 157 | 14.24 | 14.5 |
| | | | 165 | 14.20 | 14.5 |
| | | 40 | 151 | 14.21 | 14.5 |
| | | | 159 | 14.25 | 14.5 |
| | ac(VHT) | 80 | 155 | 14.38 | 14.5 |

| BT | | | | | | |
|---|---|---|---|---|---|---|
| Bluetooth mode maximum output power | Frequency | Mode | Modulation | SISO-Main(TX1) | | |
| | | | | CH | AV Power | AV Target |
| | BT 2.4GHz | BR | GFSK | 0 | 7.51 | 8.0 |
| | | | | 39 | 5.38 | 5.5 |
| | | | | 78 | 7.44 | 8.0 |
| | | EDR | 8DPSK | 0 | 5.12 | 5.5 |
| | | | | 39 | 2.63 | 3.0 |
| | | | | 78 | 5.20 | 5.5 |
| | | BLE | GFSK | 0 | 2.89 | 3.0 |
| | | | | 19 | 0.78 | 1.0 |
| | | | | 39 | 4.10 | 4.5 |

| Band | GSM850 | | | PCS1900 | | |
|---|---|---|---|---|---|---|
| CHANNEL | 128 | 189 | 251 | 512 | 661 | 810 |
| VOICE | 32.77 | 32.79 | 32.75 | 30.47 | 30.50 | 30.32 |
| GPRS Class 8 | 32.75 | 32.78 | 32.65 | 30.41 | 30.45 | 30.15 |
| GPRS Class 10 | 31.01 | 31.21 | 31.02 | 29.77 | 29.84 | 29.78 |
| GPRS Class 11 | 29.66 | 29.85 | 29.84 | 28.23 | 28.32 | 28.21 |
| GPRS Class 12 | 29.59 | 29.61 | 29.55 | 27.37 | 27.38 | 27.17 |
| EGPRS Class 8 | 25.17 | 25.58 | 25.39 | 23.94 | 23.95 | 23.82 |
| EGPRS Class 10 | 22.64 | 23.23 | 23.01 | 23.9 | 23.91 | 23.78 |
| EGPRS Class 11 | 19.94 | 20.59 | 20.27 | 22.05 | 22.1 | 22.04 |
| EGPRS Class 12 | 18.17 | 18.73 | 18.51 | 20.61 | 20.63 | 20.14 |
| Note: Unit : dBm | | | | | | |

| Band | WCDMA B2 | | | WCDMA B4 | | | WCDMA B5 | | |
|---|---|---|---|---|---|---|---|---|---|
| CHANNEL | 9262 | 9400 | 9538 | 1312 | 1413 | 1513 | 4132 | 4183 | 4233 |
| VOICE | 22.31 | 22.52 | 22.41 | 18.44 | 18.77 | 18.61 | 22.57 | 22.63 | 22.58 |
| RMC | 22.37 | 22.65 | 22.46 | 18.54 | 18.83 | 18.72 | 23.03 | 23.12 | 23.01 |
| HSDPA Set 1 | 20.59 | 21.22 | 20.9 | 18.19 | 18.62 | 18.5 | 21.54 | 21.6 | 21.55 |
| HSDPA Set 2 | 20.6 | 21.05 | 20.89 | 18.2 | 18.52 | 18.4 | 21.5 | 21.61 | 21.56 |
| HSDPA Set 3 | 20.61 | 21.05 | 20.89 | 18.21 | 18.51 | 18.39 | 21.48 | 21.61 | 21.55 |
| HSDPA Set 4 | 20.66 | 21.04 | 20.83 | 18.25 | 18.54 | 18.42 | 21.48 | 21.64 | 21.43 |
| HSUPA Set 1 | 20.22 | 20.76 | 20.25 | 17.93 | 18.30 | 18.05 | 21.01 | 21.14 | 20.99 |
| HSUPA Set 2 | 20.05 | 20.56 | 20.31 | 17.73 | 18.18 | 18.04 | 20.83 | 21.12 | 20.93 |
| HSUPA Set 3 | 20.28 | 20.45 | 20.34 | 17.86 | 18.4 | 17.99 | 20.9 | 21.02 | 21.02 |
| HSUPA Set 4 | 19.96 | 20.69 | 20.31 | 17.77 | 18.22 | 18.1 | 20.87 | 20.99 | 20.94 |
| HSUPA Set 5 | 20.21 | 20.52 | 20.3 | 17.87 | 18.3 | 18.08 | 20.64 | 21.09 | 20.75 |
| Note: Unit : dBm | | | | | | | | | |

| Channel | Modulation | LTE Band 2 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | RB | RB | Maximum Conducted Output Power | | | | | |
| | | No. | Offset | 1.4M | 3M | 5M | 10M | 15M | 20M |
| Low | QPSK | 1 | #0 | 21.49 | 21.40 | 21.53 | 21.51 | 21.52 | 21.31 |
| | | 1 | #Mid | 21.66 | 21.55 | 21.87 | 21.79 | 21.54 | 21.88 |
| | | 1 | #Max | 21.46 | 21.45 | 21.49 | 21.48 | 21.48 | 21.33 |
| | | 50% | #0 | 20.64 | 20.66 | 20.67 | 20.61 | 20.59 | 20.64 |
| | | 50% | #Mid | 20.62 | 20.67 | 20.68 | 20.60 | 20.57 | 20.58 |
| | | 50% | #Max | 20.57 | 20.62 | 20.63 | 20.57 | 20.49 | 20.47 |
| | | 100% | -- | 20.63 | 20.59 | 20.64 | 20.62 | 20.52 | 20.52 |
| | 16QAM | 1 | #0 | 20.75 | 20.78 | 20.44 | 20.56 | 20.28 | 20.79 |
| | | 1 | #Mid | 20.43 | 20.39 | 20.34 | 20.49 | 20.25 | 20.43 |
| | | 1 | #Max | 20.28 | 20.68 | 20.20 | 20.43 | 20.12 | 20.48 |
| | | 50% | #0 | 20.59 | 19.56 | 19.70 | 19.67 | 19.63 | 19.66 |
| | | 50% | #Mid | 20.72 | 19.75 | 19.68 | 19.85 | 19.59 | 19.69 |
| | | 50% | #Max | 20.69 | 19.91 | 19.57 | 19.93 | 19.53 | 19.49 |
| | | 100% | -- | 19.55 | 19.64 | 19.70 | 19.65 | 19.68 | 19.53 |
| | 64QAM | 1 | #0 | 19.69 | 19.59 | 19.58 | 19.59 | 19.76 | 18.69 |
| | | 1 | #Mid | 19.92 | 19.96 | 19.82 | 20.08 | 19.92 | 20.06 |
| | | 1 | #Max | 19.85 | 19.53 | 19.40 | 19.56 | 19.15 | 19.59 |
| | | 50% | #0 | 19.63 | 18.71 | 18.72 | 18.76 | 18.74 | 18.58 |
| | | 50% | #Mid | 19.51 | 18.62 | 18.72 | 18.74 | 18.62 | 18.55 |
| | | 50% | #Max | 19.52 | 18.57 | 18.69 | 18.63 | 18.71 | 18.61 |
| | | 100% | -- | 18.42 | 18.69 | 18.76 | 18.66 | 18.48 | 18.63 |
| Mid | QPSK | 1 | #0 | 21.76 | 21.64 | 21.84 | 21.56 | 21.79 | 21.48 |
| | | 1 | #Mid | 22.09 | 21.88 | 22.26 | 22.14 | 22.05 | 22.28 |
| | | 1 | #Max | 21.82 | 21.68 | 21.93 | 21.71 | 21.74 | 21.75 |
| | | 50% | #0 | 20.87 | 20.82 | 21.07 | 20.87 | 20.82 | 20.87 |
| | | 50% | #Mid | 20.82 | 20.87 | 21.09 | 20.87 | 20.82 | 20.80 |
| | | 50% | #Max | 20.77 | 20.81 | 21.10 | 20.79 | 20.88 | 20.89 |
| | | 100% | -- | 20.89 | 20.91 | 21.04 | 20.83 | 20.79 | 20.83 |
| | 16QAM | 1 | #0 | 20.91 | 20.95 | 20.93 | 20.79 | 20.70 | 20.69 |
| | | 1 | #Mid | 20.59 | 20.61 | 20.66 | 20.76 | 20.50 | 20.56 |
| | | 1 | #Max | 20.72 | 20.90 | 20.73 | 20.75 | 20.56 | 20.44 |
| | | 50% | #0 | 20.75 | 19.51 | 19.78 | 20.09 | 19.85 | 19.86 |
| | | 50% | #Mid | 20.88 | 19.90 | 19.86 | 19.75 | 19.83 | 19.82 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 50% | #Max | 20.86 | 19.90 | 19.76 | 19.75 | 19.84 | 19.91 |
| | | 100% | -- | 19.73 | 19.64 | 19.97 | 19.88 | 19.83 | 19.84 |
| | 64QAM | 1 | #0 | 19.96 | 19.37 | 19.66 | 19.79 | 19.80 | 19.68 |
| | | 1 | #Mid | 19.97 | 19.81 | 20.13 | 19.97 | 20.12 | 20.21 |
| | | 1 | #Max | 19.76 | 19.25 | 19.69 | 19.79 | 19.77 | 19.68 |
| | | 50% | #0 | 19.69 | 18.67 | 19.11 | 19.00 | 18.98 | 18.90 |
| | | 50% | #Mid | 19.65 | 18.74 | 19.10 | 19.02 | 18.89 | 18.70 |
| | | 50% | #Max | 19.68 | 18.58 | 18.89 | 18.94 | 18.95 | 18.91 |
| | | 100% | -- | 18.53 | 18.65 | 18.97 | 18.88 | 18.91 | 18.65 |
| High | QPSK | 1 | #0 | 21.73 | 21.83 | 21.84 | 21.81 | 21.81 | 21.61 |
| | | 1 | #Mid | 22.01 | 21.85 | 22.12 | 21.94 | 21.95 | 22.19 |
| | | 1 | #Max | 21.78 | 21.62 | 21.86 | 21.68 | 21.89 | 21.54 |
| | | 50% | #0 | 20.91 | 21.00 | 20.89 | 21.04 | 21.06 | 21.04 |
| | | 50% | #Mid | 20.94 | 20.98 | 20.93 | 21.08 | 21.01 | 20.98 |
| | | 50% | #Max | 20.95 | 21.00 | 20.90 | 20.97 | 21.09 | 20.95 |
| | | 100% | -- | 20.98 | 21.00 | 20.92 | 21.02 | 20.98 | 21.02 |
| | 16QAM | 1 | #0 | 21.17 | 20.91 | 20.88 | 21.05 | 20.78 | 20.97 |
| | | 1 | #Mid | 21.16 | 20.90 | 20.85 | 20.99 | 20.77 | 20.89 |
| | | 1 | #Max | 20.77 | 20.78 | 20.62 | 20.85 | 20.76 | 20.67 |
| | | 50% | #0 | 20.86 | 19.92 | 20.00 | 19.93 | 19.94 | 19.98 |
| | | 50% | #Mid | 20.93 | 19.92 | 19.99 | 20.17 | 19.98 | 20.01 |
| | | 50% | #Max | 21.07 | 19.86 | 19.99 | 19.87 | 19.88 | 19.88 |
| | | 100% | -- | 19.87 | 19.95 | 20.14 | 19.99 | 20.03 | 20.01 |
| | 64QAM | 1 | #0 | 20.26 | 19.96 | 19.82 | 19.95 | 19.95 | 19.86 |
| | | 1 | #Mid | 20.27 | 20.40 | 20.33 | 20.41 | 20.25 | 20.37 |
| | | 1 | #Max | 19.89 | 20.00 | 19.82 | 19.94 | 19.54 | 19.78 |
| | | 50% | #0 | 19.91 | 18.82 | 19.13 | 19.20 | 19.02 | 19.16 |
| | | 50% | #Mid | 20.03 | 18.95 | 19.32 | 19.19 | 19.12 | 19.11 |
| | | 50% | #Max | 19.99 | 18.74 | 19.10 | 19.09 | 19.11 | 19.08 |
| | | 100% | -- | 18.92 | 19.13 | 19.17 | 19.01 | 19.14 | 19.14 |

| Channel | Modulation | LTE Band 4 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | RB | RB | Maximum Conducted Output Power | | | | | |
| | | No. | Offset | 1.4M | 3M | 5M | 10M | 15M | 20M |
| Low | QPSK | 1 | #0 | 17.97 | 17.61 | 18.02 | 17.69 | 17.74 | 17.72 |
| | | 1 | #Mid | 18.10 | 17.90 | 18.26 | 18.01 | 17.98 | 18.15 |
| | | 1 | #Max | 17.98 | 17.79 | 18.05 | 18.01 | 17.97 | 17.91 |
| | | 50% | #0 | 16.96 | 16.97 | 16.92 | 16.90 | 17.79 | 16.97 |
| | | 50% | #Mid | 16.91 | 16.92 | 16.93 | 16.88 | 16.89 | 16.90 |
| | | 50% | #Max | 16.90 | 16.98 | 17.10 | 16.87 | 16.97 | 16.96 |
| | | 100% | -- | 16.92 | 16.84 | 16.97 | 16.93 | 16.88 | 16.95 |
| | 16QAM | 1 | #0 | 16.33 | 16.70 | 16.13 | 16.39 | 16.43 | 16.86 |
| | | 1 | #Mid | 16.85 | 16.80 | 16.34 | 16.97 | 16.50 | 17.10 |
| | | 1 | #Max | 16.59 | 16.79 | 16.30 | 16.87 | 16.49 | 16.62 |
| | | 50% | #0 | 16.79 | 15.77 | 15.75 | 15.98 | 15.91 | 15.89 |
| | | 50% | #Mid | 16.83 | 15.84 | 15.84 | 15.96 | 15.89 | 15.95 |
| | | 50% | #Max | 16.82 | 15.77 | 15.71 | 15.93 | 16.11 | 16.09 |
| | | 100% | -- | 15.96 | 15.89 | 15.81 | 16.04 | 15.86 | 16.07 |
| | 64QAM | 1 | #0 | 16.09 | 15.95 | 16.51 | 16.09 | 16.28 | 16.16 |
| | | 1 | #Mid | 16.25 | 16.02 | 16.61 | 16.59 | 16.43 | 16.66 |
| | | 1 | #Max | 16.05 | 15.82 | 16.47 | 16.09 | 16.41 | 16.43 |
| | | 50% | #0 | 16.08 | 14.85 | 15.83 | 15.07 | 14.88 | 15.00 |
| | | 50% | #Mid | 16.08 | 14.81 | 15.94 | 15.08 | 15.07 | 14.99 |
| | | 50% | #Max | 16.03 | 14.85 | 15.48 | 14.95 | 15.13 | 14.99 |
| | | 100% | -- | 14.84 | 14.83 | 15.24 | 15.06 | 14.94 | 15.18 |
| Mid | QPSK | 1 | #0 | 18.08 | 18.02 | 18.20 | 17.82 | 18.01 | 17.80 |
| | | 1 | #Mid | 18.10 | 18.13 | 18.24 | 18.12 | 18.14 | 18.25 |
| | | 1 | #Max | 17.99 | 17.98 | 18.21 | 17.66 | 18.03 | 17.71 |
| | | 50% | #0 | 17.10 | 17.04 | 17.81 | 16.95 | 16.99 | 16.96 |
| | | 50% | #Mid | 17.15 | 17.03 | 17.26 | 16.94 | 17.02 | 16.90 |
| | | 50% | #Max | 17.01 | 16.98 | 17.14 | 16.88 | 16.92 | 16.88 |
| | | 100% | -- | 17.00 | 17.06 | 17.07 | 16.91 | 17.00 | 16.98 |
| | 16QAM | 1 | #0 | 16.57 | 16.21 | 16.31 | 16.26 | 16.49 | 16.53 |
| | | 1 | #Mid | 16.93 | 16.80 | 16.98 | 16.51 | 17.01 | 17.13 |
| | | 1 | #Max | 16.90 | 16.45 | 16.92 | 16.41 | 16.59 | 16.85 |
| | | 50% | #0 | 16.78 | 16.12 | 15.98 | 15.97 | 16.06 | 16.13 |
| | | 50% | #Mid | 16.38 | 16.10 | 15.99 | 16.16 | 16.03 | 16.13 |
| | | 50% | #Max | 16.32 | 16.07 | 15.93 | 16.12 | 15.93 | 16.06 |
| | | 100% | -- | 16.21 | 16.10 | 16.06 | 15.87 | 16.04 | 16.01 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 64QAM | 1 | #0 | 16.16 | 16.74 | 16.34 | 15.72 | 16.31 | 16.75 |
| | | 1 | #Mid | 16.63 | 16.80 | 16.81 | 16.62 | 16.32 | 16.82 |
| | | 1 | #Max | 16.04 | 16.64 | 16.25 | 15.77 | 15.58 | 15.86 |
| | | 50% | #0 | 16.26 | 15.06 | 15.97 | 15.00 | 15.26 | 15.00 |
| | | 50% | #Mid | 16.22 | 15.11 | 15.94 | 15.16 | 15.23 | 15.13 |
| | | 50% | #Max | 16.16 | 15.21 | 15.90 | 15.11 | 15.16 | 14.94 |
| | | 100% | -- | 14.93 | 14.96 | 15.08 | 14.96 | 15.07 | 14.93 |
| High | QPSK | 1 | #0 | 17.83 | 17.85 | 18.12 | 17.75 | 18.11 | 18.10 |
| | | 1 | #Mid | 17.93 | 17.86 | 18.22 | 18.11 | 18.12 | 18.23 |
| | | 1 | #Max | 17.87 | 17.66 | 18.01 | 17.89 | 17.82 | 17.93 |
| | | 50% | #0 | 17.84 | 17.09 | 17.91 | 17.00 | 16.94 | 17.08 |
| | | 50% | #Mid | 17.93 | 16.86 | 17.95 | 16.97 | 16.92 | 16.92 |
| | | 50% | #Max | 16.85 | 16.86 | 17.90 | 16.85 | 16.94 | 16.93 |
| | | 100% | -- | 17.09 | 16.88 | 17.38 | 16.94 | 16.97 | 17.01 |
| | 16QAM | 1 | #0 | 16.63 | 16.23 | 16.31 | 16.99 | 16.80 | 16.92 |
| | | 1 | #Mid | 16.97 | 16.86 | 17.16 | 17.09 | 16.85 | 17.17 |
| | | 1 | #Max | 16.43 | 16.41 | 16.92 | 17.04 | 16.85 | 16.94 |
| | | 50% | #0 | 16.81 | 16.24 | 15.98 | 16.00 | 16.11 | 16.23 |
| | | 50% | #Mid | 16.92 | 16.19 | 15.99 | 16.14 | 16.10 | 16.08 |
| | | 50% | #Max | 16.96 | 16.21 | 15.93 | 15.83 | 16.11 | 15.96 |
| | | 100% | -- | 16.14 | 15.87 | 16.06 | 16.10 | 16.12 | 16.12 |
| | 64QAM | 1 | #0 | 16.40 | 15.75 | 16.34 | 15.70 | 15.78 | 16.79 |
| | | 1 | #Mid | 16.41 | 16.13 | 16.81 | 16.52 | 16.13 | 16.89 |
| | | 1 | #Max | 16.27 | 15.87 | 16.25 | 15.75 | 15.83 | 15.91 |
| | | 50% | #0 | 15.96 | 14.93 | 15.97 | 15.29 | 15.08 | 15.24 |
| | | 50% | #Mid | 16.16 | 14.98 | 15.94 | 15.25 | 15.06 | 14.98 |
| | | 50% | #Max | 16.21 | 14.89 | 15.90 | 15.15 | 15.17 | 15.09 |
| | | 100% | -- | 14.87 | 14.86 | 15.12 | 15.04 | 14.90 | 15.16 |

| Channel | Modulation | LTE Band 5 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | RB | RB | Maximum Conducted Output Power | | | | | |
| | | No. | Offset | 1.4M | 3M | 5M | 10M | 15M | 20M |
| Low | QPSK | 1 | #0 | 22.31 | 22.05 | 22.32 | 22.32 | -- | -- |
| | | 1 | #Mid | 22.42 | 22.52 | 22.62 | 22.71 | -- | -- |
| | | 1 | #Max | 22.31 | 22.01 | 22.33 | 22.41 | -- | -- |
| | | 50% | #0 | 21.40 | 21.39 | 21.41 | 21.65 | -- | -- |
| | | 50% | #Mid | 21.28 | 21.35 | 21.46 | 21.60 | -- | -- |
| | | 50% | #Max | 21.29 | 21.29 | 21.30 | 21.59 | -- | -- |
| | | 100% | -- | 21.28 | 21.24 | 21.31 | 21.58 | -- | -- |
| | 16QAM | 1 | #0 | 21.41 | 20.97 | 20.94 | 20.93 | -- | -- |
| | | 1 | #Mid | 21.46 | 21.16 | 20.96 | 21.05 | -- | -- |
| | | 1 | #Max | 21.32 | 21.10 | 20.84 | 21.02 | -- | -- |
| | | 50% | #0 | 21.15 | 20.31 | 20.16 | 20.27 | -- | -- |
| | | 50% | #Mid | 21.40 | 20.42 | 20.26 | 20.22 | -- | -- |
| | | 50% | #Max | 21.36 | 20.58 | 20.22 | 20.57 | -- | -- |
| | | 100% | -- | 20.30 | 20.38 | 20.49 | 20.30 | -- | -- |
| | 64QAM | 1 | #0 | 20.47 | 20.33 | 20.08 | 20.28 | -- | -- |
| | | 1 | #Mid | 20.76 | 20.68 | 20.50 | 20.77 | -- | -- |
| | | 1 | #Max | 20.69 | 20.25 | 19.66 | 20.20 | -- | -- |
| | | 50% | #0 | 20.47 | 19.25 | 19.38 | 19.33 | -- | -- |
| | | 50% | #Mid | 20.36 | 19.19 | 19.46 | 19.38 | -- | -- |
| | | 50% | #Max | 20.40 | 19.14 | 19.23 | 19.27 | -- | -- |
| | | 100% | -- | 19.22 | 19.33 | 19.34 | 19.17 | -- | -- |
| Mid | QPSK | 1 | #0 | 22.16 | 22.21 | 22.37 | 22.36 | -- | -- |
| | | 1 | #Mid | 22.51 | 22.61 | 22.66 | 22.75 | -- | -- |
| | | 1 | #Max | 22.28 | 22.33 | 22.36 | 22.47 | -- | -- |
| | | 50% | #0 | 21.26 | 21.36 | 21.42 | 21.66 | -- | -- |
| | | 50% | #Mid | 21.17 | 21.29 | 21.48 | 21.67 | -- | -- |
| | | 50% | #Max | 21.22 | 21.29 | 21.33 | 21.62 | -- | -- |
| | | 100% | -- | 21.38 | 21.33 | 21.39 | 21.65 | -- | -- |
| | 16QAM | 1 | #0 | 21.38 | 21.25 | 20.98 | 21.14 | -- | -- |
| | | 1 | #Mid | 21.43 | 21.49 | 21.11 | 21.56 | -- | -- |
| | | 1 | #Max | 21.11 | 21.44 | 21.08 | 21.25 | -- | -- |
| | | 50% | #0 | 21.35 | 20.44 | 20.27 | 20.34 | -- | -- |
| | | 50% | #Mid | 21.41 | 20.36 | 20.25 | 20.25 | -- | -- |
| | | 50% | #Max | 21.37 | 20.47 | 20.13 | 20.22 | -- | -- |
| | | 100% | -- | 20.24 | 20.41 | 20.34 | 20.36 | -- | -- |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 64QAM | 1 | #0 | 20.34 | 20.07 | 20.21 | 20.31 | -- | -- |
| | | 1 | #Mid | 20.52 | 20.39 | 20.78 | 20.71 | -- | -- |
| | | 1 | #Max | 20.28 | 19.94 | 20.33 | 20.41 | -- | -- |
| | | 50% | #0 | 20.38 | 19.29 | 19.41 | 19.46 | -- | -- |
| | | 50% | #Mid | 20.32 | 19.28 | 19.64 | 19.47 | -- | -- |
| | | 50% | #Max | 20.37 | 19.22 | 19.56 | 19.33 | -- | -- |
| | | 100% | -- | 19.16 | 19.28 | 19.31 | 19.23 | -- | -- |
| High | QPSK | 1 | #0 | 22.27 | 22.21 | 22.28 | 22.38 | -- | -- |
| | | 1 | #Mid | 22.50 | 22.56 | 22.59 | 22.62 | -- | -- |
| | | 1 | #Max | 22.20 | 22.04 | 22.21 | 22.22 | -- | -- |
| | | 50% | #0 | 21.31 | 21.30 | 21.32 | 21.51 | -- | -- |
| | | 50% | #Mid | 21.32 | 21.26 | 21.35 | 21.50 | -- | -- |
| | | 50% | #Max | 21.24 | 21.25 | 21.30 | 21.41 | -- | -- |
| | | 100% | -- | 21.30 | 21.33 | 21.34 | 21.51 | -- | -- |
| | 16QAM | 1 | #0 | 21.15 | 20.94 | 21.29 | 21.42 | -- | -- |
| | | 1 | #Mid | 21.45 | 21.15 | 21.42 | 21.52 | -- | -- |
| | | 1 | #Max | 21.32 | 20.95 | 21.40 | 21.40 | -- | -- |
| | | 50% | #0 | 21.38 | 20.20 | 20.26 | 20.28 | -- | -- |
| | | 50% | #Mid | 21.44 | 20.47 | 20.28 | 20.22 | -- | -- |
| | | 50% | #Max | 21.41 | 20.45 | 20.37 | 20.13 | -- | -- |
| | | 100% | -- | 20.09 | 20.44 | 20.40 | 20.25 | -- | -- |
| | 64QAM | 1 | #0 | 20.49 | 20.15 | 19.90 | 20.30 | -- | -- |
| | | 1 | #Mid | 20.66 | 20.66 | 20.33 | 20.43 | -- | -- |
| | | 1 | #Max | 20.40 | 20.27 | 19.97 | 20.38 | -- | -- |
| | | 50% | #0 | 20.40 | 19.21 | 19.28 | 19.43 | -- | -- |
| | | 50% | #Mid | 20.42 | 19.17 | 19.52 | 19.25 | -- | -- |
| | | 50% | #Max | 20.35 | 19.24 | 19.41 | 19.20 | -- | -- |
| | | 100% | -- | 19.20 | 19.52 | 19.32 | 19.24 | -- | -- |

| Channel | Modulation | LTE Band 7 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | RB | RB | Maximum Conducted Output Power | | | | | |
| | | No. | Offset | 1.4M | 3M | 5M | 10M | 15M | 20M |
| Low | QPSK | 1 | #0 | -- | -- | 18.01 | 18.16 | 18.15 | 18.19 |
| | | 1 | #Mid | -- | -- | 18.63 | 18.65 | 18.65 | 19.35 |
| | | 1 | #Max | -- | -- | 18.01 | 18.09 | 18.08 | 18.11 |
| | | 50% | #0 | -- | -- | 17.49 | 17.50 | 17.49 | 17.57 |
| | | 50% | #Mid | -- | -- | 17.53 | 17.40 | 17.57 | 17.57 |
| | | 50% | #Max | -- | -- | 17.55 | 17.52 | 17.54 | 17.56 |
| | | 100% | -- | -- | -- | 17.53 | 17.51 | 17.53 | 17.55 |
| | 16QAM | 1 | #0 | -- | -- | 17.19 | 17.08 | 17.01 | 17.01 |
| | | 1 | #Mid | -- | -- | 17.31 | 17.60 | 17.11 | 17.67 |
| | | 1 | #Max | -- | -- | 17.13 | 17.11 | 16.88 | 17.21 |
| | | 50% | #0 | -- | -- | 16.38 | 16.53 | 16.45 | 16.15 |
| | | 50% | #Mid | -- | -- | 16.50 | 16.64 | 16.46 | 16.28 |
| | | 50% | #Max | -- | -- | 16.45 | 16.58 | 16.44 | 16.26 |
| | | 100% | -- | -- | -- | 16.58 | 16.40 | 16.40 | 16.19 |
| | 64QAM | 1 | #0 | -- | -- | 16.66 | 16.28 | 16.79 | 17.20 |
| | | 1 | #Mid | -- | -- | 16.86 | 16.89 | 16.86 | 17.54 |
| | | 1 | #Max | -- | -- | 16.46 | 16.56 | 16.74 | 16.63 |
| | | 50% | #0 | -- | -- | 15.59 | 15.70 | 15.62 | 16.34 |
| | | 50% | #Mid | -- | -- | 15.73 | 15.71 | 15.63 | 16.34 |
| | | 50% | #Max | -- | -- | 15.86 | 15.63 | 15.59 | 16.33 |
| | | 100% | -- | -- | -- | 15.61 | 15.47 | 15.45 | 16.17 |
| Mid | QPSK | 1 | #0 | -- | -- | 18.11 | 18.25 | 18.22 | 18.26 |
| | | 1 | #Mid | -- | -- | 18.63 | 18.65 | 18.60 | 19.37 |
| | | 1 | #Max | -- | -- | 18.04 | 18.39 | 18.33 | 18.54 |
| | | 50% | #0 | -- | -- | 17.57 | 17.60 | 17.55 | 17.65 |
| | | 50% | #Mid | -- | -- | 17.50 | 17.60 | 17.45 | 17.61 |
| | | 50% | #Max | -- | -- | 17.51 | 17.50 | 17.58 | 17.61 |
| | | 100% | -- | -- | -- | 17.59 | 17.55 | 17.55 | 17.60 |
| | 16QAM | 1 | #0 | -- | -- | 17.01 | 17.05 | 16.98 | 17.20 |
| | | 1 | #Mid | -- | -- | 17.49 | 17.32 | 17.13 | 17.80 |
| | | 1 | #Max | -- | -- | 16.50 | 16.36 | 17.09 | 16.86 |
| | | 50% | #0 | -- | -- | 16.49 | 16.35 | 16.46 | 16.50 |
| | | 50% | #Mid | -- | -- | 16.32 | 16.29 | 16.26 | 16.38 |
| | | 50% | #Max | -- | -- | 16.26 | 16.30 | 16.24 | 16.35 |
| | | 100% | -- | -- | -- | 16.27 | 16.26 | 16.41 | 16.42 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 64QAM | 1 | #0 | -- | -- | 16.50 | 16.33 | 16.66 | 16.68 |
| | | 1 | #Mid | -- | -- | 16.56 | 16.88 | 16.70 | 17.24 |
| | | 1 | #Max | -- | -- | 15.99 | 16.60 | 16.69 | 16.83 |
| | | 50% | #0 | -- | -- | 15.45 | 15.74 | 15.62 | 16.55 |
| | | 50% | #Mid | -- | -- | 15.74 | 15.81 | 15.61 | 16.50 |
| | | 50% | #Max | -- | -- | 15.53 | 15.63 | 15.65 | 16.46 |
| | | 100% | -- | -- | -- | 15.74 | 15.61 | 15.78 | 16.48 |
| High | QPSK | 1 | #0 | -- | -- | 18.01 | 18.16 | 18.15 | 18.22 |
| | | 1 | #Mid | -- | -- | 18.50 | 18.45 | 18.37 | 19.11 |
| | | 1 | #Max | -- | -- | 18.00 | 18.00 | 18.01 | 18.02 |
| | | 50% | #0 | -- | -- | 17.46 | 17.51 | 17.39 | 17.59 |
| | | 50% | #Mid | -- | -- | 17.40 | 17.50 | 17.40 | 17.51 |
| | | 50% | #Max | -- | -- | 17.43 | 17.35 | 17.39 | 17.49 |
| | | 100% | -- | -- | -- | 17.32 | 17.39 | 17.36 | 17.48 |
| | 16QAM | 1 | #0 | -- | -- | 17.08 | 17.27 | 17.37 | 17.50 |
| | | 1 | #Mid | -- | -- | 17.34 | 17.40 | 17.39 | 17.53 |
| | | 1 | #Max | -- | -- | 17.04 | 17.29 | 17.20 | 17.30 |
| | | 50% | #0 | -- | -- | 16.44 | 16.36 | 16.34 | 16.48 |
| | | 50% | #Mid | -- | -- | 16.49 | 16.33 | 16.45 | 16.55 |
| | | 50% | #Max | -- | -- | 16.27 | 16.36 | 16.44 | 16.42 |
| | | 100% | -- | -- | -- | 16.21 | 16.38 | 16.29 | 16.37 |
| | 64QAM | 1 | #0 | -- | -- | 16.11 | 16.59 | 16.64 | 16.79 |
| | | 1 | #Mid | -- | -- | 16.69 | 16.61 | 16.75 | 16.80 |
| | | 1 | #Max | -- | -- | 16.32 | 16.60 | 16.49 | 16.72 |
| | | 50% | #0 | -- | -- | 15.59 | 15.63 | 15.63 | 16.31 |
| | | 50% | #Mid | -- | -- | 15.62 | 15.71 | 15.65 | 16.38 |
| | | 50% | #Max | -- | -- | 15.22 | 15.25 | 15.41 | 16.34 |
| | | 100% | -- | -- | -- | 15.39 | 15.55 | 15.45 | 16.34 |

| Channel | Modulation | LTE Band 12 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | RB | RB | Maximum Conducted Output Power | | | | | |
| | | No. | Offset | 1.4M | 3M | 5M | 10M | 15M | 20M |
| Low | QPSK | 1 | #0 | 22.50 | 22.55 | 22.51 | 22.56 | -- | -- |
| | | 1 | #Mid | 22.83 | 22.65 | 22.78 | 23.02 | -- | -- |
| | | 1 | #Max | 22.58 | 22.62 | 22.53 | 22.63 | -- | -- |
| | | 50% | #0 | 21.70 | 21.68 | 21.67 | 21.72 | -- | -- |
| | | 50% | #Mid | 21.65 | 21.72 | 21.81 | 21.84 | -- | -- |
| | | 50% | #Max | 21.66 | 21.75 | 21.79 | 21.79 | -- | -- |
| | | 100% | -- | 21.68 | 21.66 | 21.78 | 21.80 | -- | -- |
| | 16QAM | 1 | #0 | 21.57 | 21.69 | 21.39 | 21.40 | -- | -- |
| | | 1 | #Mid | 21.92 | 21.74 | 21.45 | 21.75 | -- | -- |
| | | 1 | #Max | 21.86 | 21.61 | 21.44 | 21.71 | -- | -- |
| | | 50% | #0 | 21.66 | 20.38 | 20.65 | 20.54 | -- | -- |
| | | 50% | #Mid | 21.75 | 20.54 | 20.90 | 20.66 | -- | -- |
| | | 50% | #Max | 21.72 | 20.54 | 20.68 | 20.67 | -- | -- |
| | | 100% | -- | 20.57 | 20.75 | 20.61 | 20.59 | -- | -- |
| | 64QAM | 1 | #0 | 21.19 | 20.77 | 20.72 | 20.67 | -- | -- |
| | | 1 | #Mid | 21.06 | 21.13 | 21.00 | 21.32 | -- | -- |
| | | 1 | #Max | 20.79 | 20.83 | 20.79 | 20.90 | -- | -- |
| | | 50% | #0 | 20.63 | 19.45 | 19.75 | 19.58 | -- | -- |
| | | 50% | #Mid | 20.73 | 19.55 | 19.96 | 19.89 | -- | -- |
| | | 50% | #Max | 20.70 | 19.75 | 19.83 | 19.95 | -- | -- |
| | | 100% | -- | 19.56 | 19.66 | 19.93 | 19.79 | -- | -- |
| Mid | QPSK | 1 | #0 | 22.58 | 22.63 | 22.55 | 22.64 | -- | -- |
| | | 1 | #Mid | 22.91 | 22.89 | 23.09 | 23.13 | -- | -- |
| | | 1 | #Max | 22.57 | 22.50 | 22.86 | 22.87 | -- | -- |
| | | 50% | #0 | 21.73 | 21.79 | 21.73 | 21.81 | -- | -- |
| | | 50% | #Mid | 21.67 | 21.84 | 21.84 | 22.01 | -- | -- |
| | | 50% | #Max | 21.67 | 21.81 | 21.78 | 21.82 | -- | -- |
| | | 100% | -- | 21.74 | 21.81 | 21.82 | 21.83 | -- | -- |
| | 16QAM | 1 | #0 | 21.81 | 21.73 | 21.76 | 21.62 | -- | -- |
| | | 1 | #Mid | 22.17 | 21.88 | 21.74 | 22.04 | -- | -- |
| | | 1 | #Max | 22.06 | 21.87 | 21.74 | 21.70 | -- | -- |
| | | 50% | #0 | 21.62 | 20.78 | 20.62 | 20.72 | -- | -- |
| | | 50% | #Mid | 21.85 | 20.93 | 20.97 | 20.59 | -- | -- |
| | | 50% | #Max | 21.85 | 20.88 | 20.79 | 20.59 | -- | -- |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 100% | -- | 20.58 | 20.47 | 20.89 | 20.70 | -- | -- |
| | 64QAM | 1 | #0 | 21.21 | 20.44 | 20.48 | 20.53 | -- | -- |
| | | 1 | #Mid | 21.16 | 20.96 | 20.90 | 20.83 | -- | -- |
| | | 1 | #Max | 20.82 | 20.68 | 20.44 | 20.71 | -- | -- |
| | | 50% | #0 | 20.65 | 19.62 | 19.98 | 19.97 | -- | -- |
| | | 50% | #Mid | 20.23 | 19.59 | 19.95 | 19.95 | -- | -- |
| | | 50% | #Max | 20.76 | 19.71 | 19.96 | 19.95 | -- | -- |
| | | 100% | -- | 19.65 | 19.83 | 19.97 | 19.70 | -- | -- |
| High | QPSK | 1 | #0 | 22.50 | 22.50 | 22.50 | 22.51 | -- | -- |
| | | 1 | #Mid | 22.59 | 22.84 | 22.89 | 23.04 | -- | -- |
| | | 1 | #Max | 22.58 | 22.51 | 22.56 | 22.60 | -- | -- |
| | | 50% | #0 | 21.62 | 21.71 | 21.80 | 21.80 | -- | -- |
| | | 50% | #Mid | 21.69 | 21.86 | 21.86 | 21.87 | -- | -- |
| | | 50% | #Max | 21.76 | 21.78 | 21.75 | 21.78 | -- | -- |
| | | 100% | -- | 21.81 | 21.77 | 21.72 | 21.81 | -- | -- |
| | 16QAM | 1 | #0 | 21.53 | 21.62 | 21.49 | 21.27 | -- | -- |
| | | 1 | #Mid | 21.95 | 21.71 | 21.44 | 21.73 | -- | -- |
| | | 1 | #Max | 21.67 | 21.66 | 21.49 | 21.47 | -- | -- |
| | | 50% | #0 | 21.88 | 20.54 | 20.74 | 20.91 | -- | -- |
| | | 50% | #Mid | 21.93 | 20.66 | 20.66 | 20.82 | -- | -- |
| | | 50% | #Max | 21.86 | 20.50 | 20.85 | 21.00 | -- | -- |
| | | 100% | -- | 20.56 | 20.76 | 20.68 | 20.84 | -- | -- |
| | 64QAM | 1 | #0 | 21.27 | 20.67 | 20.50 | 20.70 | -- | -- |
| | | 1 | #Mid | 21.24 | 21.10 | 20.78 | 21.38 | -- | -- |
| | | 1 | #Max | 21.23 | 20.76 | 20.16 | 21.22 | -- | -- |
| | | 50% | #0 | 20.85 | 19.60 | 19.62 | 19.94 | -- | -- |
| | | 50% | #Mid | 20.90 | 19.66 | 19.72 | 19.69 | -- | -- |
| | | 50% | #Max | 20.81 | 19.60 | 19.67 | 19.99 | -- | -- |
| | | 100% | -- | 19.76 | 19.71 | 19.81 | 19.77 | -- | -- |

| Channel | Modulation | LTE Band 13 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | RB | RB | Maximum Conducted Output Power | | | | | |
| | | No. | Offset | 1.4M | 3M | 5M | 10M | 15M | 20M |
| Low | QPSK | 1 | #0 | -- | -- | 22.50 | -- | -- | -- |
| | | 1 | #Mid | -- | -- | 22.55 | -- | -- | -- |
| | | 1 | #Max | -- | -- | 22.50 | -- | -- | -- |
| | | 50% | #0 | -- | -- | 21.70 | -- | -- | -- |
| | | 50% | #Mid | -- | -- | 21.74 | -- | -- | -- |
| | | 50% | #Max | -- | -- | 21.70 | -- | -- | -- |
| | | 100% | -- | -- | -- | 21.72 | -- | -- | -- |
| | 16QAM | 1 | #0 | -- | -- | 21.32 | -- | -- | -- |
| | | 1 | #Mid | -- | -- | 21.50 | -- | -- | -- |
| | | 1 | #Max | -- | -- | 21.42 | -- | -- | -- |
| | | 50% | #0 | -- | -- | 20.24 | -- | -- | -- |
| | | 50% | #Mid | -- | -- | 20.30 | -- | -- | -- |
| | | 50% | #Max | -- | -- | 20.29 | -- | -- | -- |
| | | 100% | -- | -- | -- | 20.37 | -- | -- | -- |
| | 64QAM | 1 | #0 | -- | -- | 20.57 | -- | -- | -- |
| | | 1 | #Mid | -- | -- | 20.88 | -- | -- | -- |
| | | 1 | #Max | -- | -- | 20.33 | -- | -- | -- |
| | | 50% | #0 | -- | -- | 19.41 | -- | -- | -- |
| | | 50% | #Mid | -- | -- | 19.49 | -- | -- | -- |
| | | 50% | #Max | -- | -- | 19.46 | -- | -- | -- |
| | | 100% | -- | -- | -- | 19.58 | -- | -- | -- |
| Mid | QPSK | 1 | #0 | -- | -- | 22.51 | 22.53 | -- | -- |
| | | 1 | #Mid | -- | -- | 22.59 | 22.72 | -- | -- |
| | | 1 | #Max | -- | -- | 22.53 | 22.60 | -- | -- |
| | | 50% | #0 | -- | -- | 21.71 | 21.78 | -- | -- |
| | | 50% | #Mid | -- | -- | 21.75 | 21.82 | -- | -- |
| | | 50% | #Max | -- | -- | 21.63 | 21.76 | -- | -- |
| | | 100% | -- | -- | -- | 21.69 | 21.77 | -- | -- |
| | 16QAM | 1 | #0 | -- | -- | 21.52 | 21.74 | -- | -- |
| | | 1 | #Mid | -- | -- | 21.94 | 22.04 | -- | -- |
| | | 1 | #Max | -- | -- | 21.43 | 21.69 | -- | -- |
| | | 50% | #0 | -- | -- | 20.60 | 20.85 | -- | -- |
| | | 50% | #Mid | -- | -- | 20.59 | 20.88 | -- | -- |
| | | 50% | #Max | -- | -- | 20.66 | 20.72 | -- | -- |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 100% | -- | -- | -- | 20.87 | 20.68 | -- | -- |
| | 64QAM | 1 | #0 | -- | -- | 20.30 | 20.80 | -- | -- |
| | | 1 | #Mid | -- | -- | 20.84 | 21.27 | -- | -- |
| | | 1 | #Max | -- | -- | 20.15 | 20.96 | -- | -- |
| | | 50% | #0 | -- | -- | 19.81 | 19.45 | -- | -- |
| | | 50% | #Mid | -- | -- | 19.76 | 19.82 | -- | -- |
| | | 50% | #Max | -- | -- | 19.74 | 19.59 | -- | -- |
| | | 100% | -- | -- | -- | 19.89 | 19.76 | -- | -- |
| High | QPSK | 1 | #0 | -- | -- | 22.54 | -- | -- | -- |
| | | 1 | #Mid | -- | -- | 22.58 | -- | -- | -- |
| | | 1 | #Max | -- | -- | 22.52 | -- | -- | -- |
| | | 50% | #0 | -- | -- | 21.65 | -- | -- | -- |
| | | 50% | #Mid | -- | -- | 21.58 | -- | -- | -- |
| | | 50% | #Max | -- | -- | 21.73 | -- | -- | -- |
| | | 100% | -- | -- | -- | 21.72 | -- | -- | -- |
| | 16QAM | 1 | #0 | -- | -- | 21.52 | -- | -- | -- |
| | | 1 | #Mid | -- | -- | 21.87 | -- | -- | -- |
| | | 1 | #Max | -- | -- | 21.44 | -- | -- | -- |
| | | 50% | #0 | -- | -- | 20.68 | -- | -- | -- |
| | | 50% | #Mid | -- | -- | 20.63 | -- | -- | -- |
| | | 50% | #Max | -- | -- | 20.58 | -- | -- | -- |
| | | 100% | -- | -- | -- | 20.60 | -- | -- | -- |
| | 64QAM | 1 | #0 | -- | -- | 20.47 | -- | -- | -- |
| | | 1 | #Mid | -- | -- | 20.90 | -- | -- | -- |
| | | 1 | #Max | -- | -- | 20.38 | -- | -- | -- |
| | | 50% | #0 | -- | -- | 19.70 | -- | -- | -- |
| | | 50% | #Mid | -- | -- | 19.90 | -- | -- | -- |
| | | 50% | #Max | -- | -- | 19.68 | -- | -- | -- |
| | | 100% | -- | -- | -- | 19.36 | -- | -- | -- |

| Channel | Modulation | LTE Band 17 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | RB | RB | Maximum Conducted Output Power | | | | | |
| | | No. | Offset | 1.4M | 3M | 5M | 10M | 15M | 20M |
| Low | QPSK | 1 | #0 | -- | -- | 22.50 | 22.51 | -- | -- |
| | | 1 | #Mid | -- | -- | 22.53 | 22.65 | -- | -- |
| | | 1 | #Max | -- | -- | 22.52 | 22.50 | -- | -- |
| | | 50% | #0 | -- | -- | 21.57 | 21.59 | -- | -- |
| | | 50% | #Mid | -- | -- | 21.53 | 21.66 | -- | -- |
| | | 50% | #Max | -- | -- | 21.55 | 21.62 | -- | -- |
| | | 100% | -- | -- | -- | 21.51 | 21.58 | -- | -- |
| | 16QAM | 1 | #0 | -- | -- | 21.34 | 21.36 | -- | -- |
| | | 1 | #Mid | -- | -- | 21.38 | 21.49 | -- | -- |
| | | 1 | #Max | -- | -- | 21.18 | 21.32 | -- | -- |
| | | 50% | #0 | -- | -- | 20.45 | 20.59 | -- | -- |
| | | 50% | #Mid | -- | -- | 20.56 | 20.60 | -- | -- |
| | | 50% | #Max | -- | -- | 20.51 | 20.45 | -- | -- |
| | | 100% | -- | -- | -- | 20.53 | 20.54 | -- | -- |
| | 64QAM | 1 | #0 | -- | -- | 20.38 | 20.77 | -- | -- |
| | | 1 | #Mid | -- | -- | 20.92 | 21.11 | -- | -- |
| | | 1 | #Max | -- | -- | 20.29 | 20.58 | -- | -- |
| | | 50% | #0 | -- | -- | 19.60 | 19.71 | -- | -- |
| | | 50% | #Mid | -- | -- | 19.60 | 19.78 | -- | -- |
| | | 50% | #Max | -- | -- | 19.57 | 19.77 | -- | -- |
| | | 100% | -- | -- | -- | 19.73 | 19.57 | -- | -- |
| Mid | QPSK | 1 | #0 | -- | -- | 22.51 | 22.54 | -- | -- |
| | | 1 | #Mid | -- | -- | 22.74 | 22.83 | -- | -- |
| | | 1 | #Max | -- | -- | 22.51 | 22.51 | -- | -- |
| | | 50% | #0 | -- | -- | 21.57 | 21.70 | -- | -- |
| | | 50% | #Mid | -- | -- | 21.67 | 21.71 | -- | -- |
| | | 50% | #Max | -- | -- | 21.55 | 21.65 | -- | -- |
| | | 100% | -- | -- | -- | 21.52 | 21.62 | -- | -- |
| | 16QAM | 1 | #0 | -- | -- | 21.25 | 21.42 | -- | -- |
| | | 1 | #Mid | -- | -- | 21.48 | 21.85 | -- | -- |
| | | 1 | #Max | -- | -- | 21.47 | 21.40 | -- | -- |
| | | 50% | #0 | -- | -- | 20.47 | 20.47 | -- | -- |
| | | 50% | #Mid | -- | -- | 20.50 | 20.47 | -- | -- |
| | | 50% | #Max | -- | -- | 20.47 | 20.40 | -- | -- |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 100% | -- | -- | -- | 20.49 | 20.54 | -- | -- |
| | 64QAM | 1 | #0 | -- | -- | 20.57 | 20.63 | -- | -- |
| | | 1 | #Mid | -- | -- | 21.03 | 21.09 | -- | -- |
| | | 1 | #Max | -- | -- | 20.50 | 20.46 | -- | -- |
| | | 50% | #0 | -- | -- | 19.60 | 19.71 | -- | -- |
| | | 50% | #Mid | -- | -- | 19.63 | 19.78 | -- | -- |
| | | 50% | #Max | -- | -- | 19.60 | 19.75 | -- | -- |
| | | 100% | -- | -- | -- | 19.34 | 19.56 | -- | -- |
| High | QPSK | 1 | #0 | -- | -- | 22.51 | 22.54 | -- | -- |
| | | 1 | #Mid | -- | -- | 22.61 | 22.64 | -- | -- |
| | | 1 | #Max | -- | -- | 22.52 | 22.52 | -- | -- |
| | | 50% | #0 | -- | -- | 21.51 | 21.50 | -- | -- |
| | | 50% | #Mid | -- | -- | 21.51 | 21.57 | -- | -- |
| | | 50% | #Max | -- | -- | 21.50 | 21.56 | -- | -- |
| | | 100% | -- | -- | -- | 21.53 | 21.58 | -- | -- |
| | 16QAM | 1 | #0 | -- | -- | 21.33 | 21.61 | -- | -- |
| | | 1 | #Mid | -- | -- | 21.56 | 21.89 | -- | -- |
| | | 1 | #Max | -- | -- | 21.41 | 21.51 | -- | -- |
| | | 50% | #0 | -- | -- | 20.35 | 20.67 | -- | -- |
| | | 50% | #Mid | -- | -- | 20.51 | 20.73 | -- | -- |
| | | 50% | #Max | -- | -- | 20.35 | 20.44 | -- | -- |
| | | 100% | -- | -- | -- | 20.49 | 20.46 | -- | -- |
| | 64QAM | 1 | #0 | -- | -- | 20.41 | 20.16 | -- | -- |
| | | 1 | #Mid | -- | -- | 21.04 | 20.72 | -- | -- |
| | | 1 | #Max | -- | -- | 20.43 | 20.11 | -- | -- |
| | | 50% | #0 | -- | -- | 19.61 | 19.74 | -- | -- |
| | | 50% | #Mid | -- | -- | 19.69 | 19.73 | -- | -- |
| | | 50% | #Max | -- | -- | 19.67 | 19.78 | -- | -- |
| | | 100% | -- | -- | -- | 19.24 | 19.77 | -- | -- |

| Channel | Modulation | LTE Band 25 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | RB | RB | Maximum Conducted Output Power | | | | | |
| | | No. | Offset | 1.4M | 3M | 5M | 10M | 15M | 20M |
| Low | QPSK | 1 | #0 | 22.04 | 22.07 | 21.85 | 21.95 | 22.20 | 22.23 |
| | | 1 | #Mid | 22.24 | 22.21 | 21.94 | 21.96 | 22.27 | 22.36 |
| | | 1 | #Max | 22.17 | 21.99 | 21.78 | 21.78 | 21.99 | 22.01 |
| | | 50% | #0 | 21.21 | 21.34 | 21.21 | 21.16 | 21.09 | 21.35 |
| | | 50% | #Mid | 21.18 | 21.35 | 21.12 | 21.18 | 21.10 | 21.38 |
| | | 50% | #Max | 21.13 | 21.19 | 21.14 | 21.16 | 21.19 | 21.25 |
| | | 100% | -- | 21.32 | 21.17 | 21.13 | 21.16 | 21.23 | 21.34 |
| | 16QAM | 1 | #0 | 21.49 | 20.92 | 21.01 | 21.08 | 21.03 | 20.85 |
| | | 1 | #Mid | 21.50 | 20.96 | 20.82 | 21.10 | 20.90 | 21.15 |
| | | 1 | #Max | 21.42 | 21.08 | 20.88 | 20.92 | 20.96 | 20.91 |
| | | 50% | #0 | 21.33 | 20.20 | 20.12 | 20.23 | 20.15 | 20.09 |
| | | 50% | #Mid | 21.40 | 20.30 | 20.11 | 20.18 | 20.11 | 20.14 |
| | | 50% | #Max | 21.35 | 20.35 | 20.11 | 20.23 | 20.17 | 20.21 |
| | | 100% | -- | 20.31 | 20.17 | 20.32 | 20.23 | 20.29 | 20.15 |
| | 64QAM | 1 | #0 | 20.32 | 20.12 | 20.12 | 20.18 | 20.26 | 20.26 |
| | | 1 | #Mid | 20.30 | 20.53 | 20.42 | 20.21 | 20.54 | 20.31 |
| | | 1 | #Max | 20.20 | 20.05 | 19.88 | 20.09 | 20.20 | 20.19 |
| | | 50% | #0 | 20.23 | 19.23 | 19.36 | 19.26 | 19.19 | 19.20 |
| | | 50% | #Mid | 20.31 | 19.23 | 19.18 | 19.27 | 19.21 | 19.15 |
| | | 50% | #Max | 20.26 | 19.07 | 19.20 | 19.25 | 19.10 | 19.22 |
| | | 100% | -- | 19.20 | 19.17 | 19.24 | 19.07 | 19.01 | 19.16 |
| Mid | QPSK | 1 | #0 | 22.38 | 22.26 | 22.22 | 22.13 | 22.14 | 22.44 |
| | | 1 | #Mid | 22.44 | 22.43 | 22.56 | 22.42 | 22.44 | 22.73 |
| | | 1 | #Max | 22.12 | 22.32 | 22.28 | 22.41 | 22.16 | 22.45 |
| | | 50% | #0 | 21.41 | 21.49 | 21.42 | 21.43 | 21.40 | 21.50 |
| | | 50% | #Mid | 21.33 | 21.46 | 21.48 | 21.44 | 21.42 | 21.55 |
| | | 50% | #Max | 21.39 | 21.45 | 21.45 | 21.43 | 21.38 | 21.51 |
| | | 100% | -- | 21.44 | 21.37 | 21.39 | 21.42 | 21.43 | 21.46 |
| | 16QAM | 1 | #0 | 21.39 | 21.17 | 21.19 | 21.14 | 21.08 | 20.95 |
| | | 1 | #Mid | 21.55 | 21.22 | 21.16 | 21.40 | 21.02 | 21.37 |
| | | 1 | #Max | 21.28 | 21.27 | 21.15 | 21.14 | 20.95 | 20.97 |
| | | 50% | #0 | 21.51 | 20.33 | 20.36 | 20.50 | 20.38 | 20.36 |
| | | 50% | #Mid | 21.52 | 20.39 | 20.35 | 20.31 | 20.30 | 20.37 |
| | | 50% | #Max | 21.42 | 20.40 | 20.31 | 20.29 | 20.33 | 20.34 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 100% | -- | 20.36 | 20.36 | 20.26 | 20.40 | 20.39 | 20.38 |
| | 64QAM | 1 | #0 | 20.66 | 20.32 | 20.22 | 20.27 | 20.30 | 20.10 |
| | | 1 | #Mid | 20.65 | 20.72 | 20.77 | 20.84 | 20.33 | 20.85 |
| | | 1 | #Max | 20.42 | 20.27 | 20.17 | 20.38 | 20.25 | 20.51 |
| | | 50% | #0 | 20.40 | 19.33 | 19.54 | 19.31 | 19.40 | 19.30 |
| | | 50% | #Mid | 20.39 | 19.40 | 19.51 | 19.61 | 19.52 | 19.49 |
| | | 50% | #Max | 20.35 | 19.44 | 19.48 | 19.20 | 19.47 | 19.44 |
| | | 100% | -- | 19.32 | 19.41 | 19.28 | 19.31 | 19.39 | 19.48 |
| High | QPSK | 1 | #0 | 21.55 | 22.40 | 22.10 | 22.21 | 22.31 | 22.43 |
| | | 1 | #Mid | 21.70 | 22.65 | 22.51 | 22.62 | 22.47 | 22.69 |
| | | 1 | #Max | 21.03 | 21.02 | 21.03 | 21.01 | 21.04 | 21.07 |
| | | 50% | #0 | 21.41 | 21.35 | 21.33 | 21.39 | 21.30 | 21.49 |
| | | 50% | #Mid | 21.17 | 21.46 | 21.46 | 21.47 | 21.44 | 21.54 |
| | | 50% | #Max | 20.96 | 21.47 | 21.43 | 21.45 | 21.41 | 21.48 |
| | | 100% | -- | 21.23 | 21.32 | 21.34 | 21.43 | 21.45 | 21.45 |
| | 16QAM | 1 | #0 | 21.02 | 21.51 | 21.37 | 21.33 | 21.19 | 21.12 |
| | | 1 | #Mid | 21.12 | 21.44 | 21.37 | 21.58 | 21.18 | 21.42 |
| | | 1 | #Max | 20.24 | 21.54 | 20.34 | 20.33 | 20.20 | 20.53 |
| | | 50% | #0 | 20.88 | 20.74 | 20.66 | 20.39 | 20.39 | 20.37 |
| | | 50% | #Mid | 20.64 | 20.70 | 20.61 | 20.50 | 20.46 | 20.45 |
| | | 50% | #Max | 20.45 | 20.73 | 20.42 | 20.50 | 20.58 | 20.52 |
| | | 100% | -- | 20.64 | 20.78 | 20.65 | 20.56 | 20.48 | 20.33 |
| | 64QAM | 1 | #0 | 20.32 | 20.69 | 20.42 | 20.44 | 20.44 | 20.36 |
| | | 1 | #Mid | 20.19 | 20.72 | 20.94 | 21.01 | 20.70 | 20.79 |
| | | 1 | #Max | 19.76 | 19.63 | 19.49 | 19.44 | 19.28 | 19.50 |
| | | 50% | #0 | 20.21 | 19.71 | 20.02 | 19.68 | 19.64 | 19.34 |
| | | 50% | #Mid | 20.02 | 19.50 | 19.74 | 19.85 | 19.63 | 19.49 |
| | | 50% | #Max | 19.88 | 19.45 | 19.40 | 19.57 | 19.77 | 19.65 |
| | | 100% | -- | 19.56 | 19.73 | 19.37 | 19.63 | 19.42 | 19.56 |

| Channel | Modulation | LTE Band 26 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | RB | RB | Maximum Conducted Output Power | | | | | |
| | | No. | Offset | 1.4M | 3M | 5M | 10M | 15M | 20M |
| Low | QPSK | 1 | #0 | 22.35 | 23.48 | 22.56 | 22.55 | 22.63 | 22.35 |
| | | 1 | #Mid | 22.38 | 23.63 | 23.64 | 23.34 | 23.79 | 22.38 |
| | | 1 | #Max | 22.34 | 22.58 | 22.54 | 22.55 | 22.59 | 22.34 |
| | | 50% | #0 | 22.37 | 22.30 | 22.31 | 22.34 | 22.56 | 22.37 |
| | | 50% | #Mid | 22.33 | 22.45 | 22.40 | 22.39 | 22.58 | 22.33 |
| | | 50% | #Max | 22.30 | 22.37 | 22.28 | 22.26 | 22.54 | 22.30 |
| | | 100% | -- | 21.29 | 22.30 | 22.39 | 22.25 | 22.45 | 21.29 |
| | 16QAM | 1 | #0 | 22.25 | 22.77 | 22.25 | 22.26 | 21.68 | 22.25 |
| | | 1 | #Mid | 22.29 | 23.14 | 23.05 | 22.66 | 22.51 | 22.29 |
| | | 1 | #Max | 22.29 | 22.82 | 21.79 | 21.87 | 21.53 | 22.29 |
| | | 50% | #0 | 22.09 | 21.66 | 21.37 | 21.39 | 21.13 | 22.09 |
| | | 50% | #Mid | 22.16 | 21.71 | 21.67 | 21.45 | 21.29 | 22.16 |
| | | 50% | #Max | 22.10 | 21.65 | 21.33 | 21.31 | 21.22 | 22.10 |
| | | 100% | -- | 21.01 | 21.55 | 21.44 | 21.29 | 21.13 | 21.01 |
| | 64QAM | 1 | #0 | 21.96 | 21.75 | 21.27 | 21.17 | 20.69 | 21.96 |
| | | 1 | #Mid | 22.06 | 22.13 | 22.06 | 21.58 | 21.53 | 22.06 |
| | | 1 | #Max | 22.00 | 21.82 | 20.84 | 20.78 | 20.50 | 22.00 |
| | | 50% | #0 | 21.93 | 20.69 | 20.45 | 20.42 | 20.19 | 21.93 |
| | | 50% | #Mid | 22.00 | 20.73 | 20.74 | 20.48 | 20.34 | 22.00 |
| | | 50% | #Max | 21.96 | 20.65 | 20.42 | 20.34 | 20.26 | 21.96 |
| | | 100% | -- | 20.69 | 20.61 | 20.47 | 20.32 | 20.15 | 20.69 |
| Mid | QPSK | 1 | #0 | 22.01 | 22.43 | 22.63 | 22.59 | 23.05 | 22.01 |
| | | 1 | #Mid | 22.45 | 23.37 | 23.34 | 23.68 | 23.91 | 22.45 |
| | | 1 | #Max | 22.22 | 22.35 | 22.74 | 22.68 | 23.28 | 22.22 |
| | | 50% | #0 | 22.00 | 22.26 | 22.14 | 22.21 | 22.65 | 22.00 |
| | | 50% | #Mid | 20.52 | 22.51 | 22.50 | 22.41 | 22.68 | 20.52 |
| | | 50% | #Max | 21.90 | 22.09 | 22.19 | 22.16 | 22.61 | 21.90 |
| | | 100% | -- | 21.37 | 22.38 | 22.16 | 22.09 | 22.49 | 21.37 |
| | 16QAM | 1 | #0 | 22.30 | 22.34 | 21.88 | 21.87 | 21.45 | 22.30 |
| | | 1 | #Mid | 22.42 | 22.70 | 22.65 | 22.97 | 22.64 | 22.42 |
| | | 1 | #Max | 22.37 | 22.59 | 22.07 | 22.01 | 21.40 | 22.37 |
| | | 50% | #0 | 22.10 | 21.47 | 21.21 | 21.26 | 21.18 | 22.10 |
| | | 50% | #Mid | 22.40 | 21.62 | 21.56 | 21.45 | 21.41 | 22.40 |
| | | 50% | #Max | 22.37 | 21.50 | 21.26 | 21.20 | 21.03 | 22.37 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 100% | -- | 21.51 | 21.48 | 21.21 | 21.13 | 21.11 | 21.51 |
| | 64QAM | 1 | #0 | 21.61 | 21.32 | 20.92 | 20.85 | 20.60 | 21.61 |
| | | 1 | #Mid | 21.86 | 21.69 | 21.64 | 21.99 | 21.66 | 21.86 |
| | | 1 | #Max | 21.82 | 21.59 | 21.04 | 20.94 | 20.40 | 21.82 |
| | | 50% | #0 | 21.55 | 20.48 | 20.26 | 20.29 | 20.22 | 21.55 |
| | | 50% | #Mid | 21.85 | 20.64 | 20.64 | 20.50 | 20.46 | 21.85 |
| | | 50% | #Max | 21.83 | 20.52 | 20.32 | 20.26 | 20.08 | 21.83 |
| | | 100% | -- | 20.46 | 20.54 | 20.24 | 20.16 | 20.13 | 20.46 |
| High | QPSK | 1 | #0 | 22.33 | 22.72 | 22.59 | 22.68 | 22.77 | 22.33 |
| | | 1 | #Mid | 22.48 | 22.74 | 22.88 | 23.41 | 23.45 | 22.48 |
| | | 1 | #Max | 22.17 | 22.08 | 22.05 | 22.05 | 22.24 | 22.17 |
| | | 50% | #0 | 21.42 | 21.56 | 21.90 | 22.11 | 22.13 | 21.42 |
| | | 50% | #Mid | 21.41 | 21.44 | 21.81 | 22.20 | 22.21 | 21.41 |
| | | 50% | #Max | 21.33 | 21.25 | 21.22 | 21.67 | 21.74 | 21.33 |
| | | 100% | -- | 21.25 | 21.40 | 21.57 | 21.82 | 21.87 | 21.25 |
| | 16QAM | 1 | #0 | 21.64 | 21.99 | 21.84 | 21.96 | 21.60 | 21.64 |
| | | 1 | #Mid | 21.70 | 22.00 | 22.23 | 22.73 | 22.46 | 21.70 |
| | | 1 | #Max | 21.51 | 21.41 | 20.93 | 20.94 | 20.47 | 21.51 |
| | | 50% | #0 | 21.51 | 20.67 | 20.97 | 21.14 | 21.07 | 21.51 |
| | | 50% | #Mid | 21.54 | 20.55 | 20.88 | 21.24 | 21.22 | 21.54 |
| | | 50% | #Max | 21.45 | 20.36 | 20.29 | 20.71 | 20.89 | 21.45 |
| | | 100% | -- | 20.38 | 20.47 | 20.63 | 20.87 | 20.91 | 20.38 |
| | 64QAM | 1 | #0 | 20.75 | 21.03 | 20.90 | 20.96 | 20.61 | 20.75 |
| | | 1 | #Mid | 20.79 | 21.05 | 21.24 | 21.73 | 21.47 | 20.79 |
| | | 1 | #Max | 20.65 | 20.45 | 19.95 | 19.94 | 19.46 | 20.65 |
| | | 50% | #0 | 20.65 | 19.72 | 20.04 | 20.18 | 20.12 | 20.65 |
| | | 50% | #Mid | 20.67 | 19.59 | 19.98 | 20.29 | 20.28 | 20.67 |
| | | 50% | #Max | 20.59 | 19.37 | 19.38 | 19.76 | 19.94 | 20.59 |
| | | 100% | -- | 19.34 | 19.52 | 19.67 | 19.91 | 20.81 | 19.34 |

| Channel | Modulation | LTE Band 38 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | RB | RB | Maximum Conducted Output Power | | | | | |
| | | No. | Offset | 1.4M | 3M | 5M | 10M | 15M | 20M |
| Low | QPSK | 1 | #0 | -- | -- | 21.02 | 21.15 | 21.25 | 21.36 |
| | | 1 | #Mid | -- | -- | 21.31 | 21.15 | 21.11 | 21.32 |
| | | 1 | #Max | -- | -- | 21.15 | 21.20 | 21.21 | 21.22 |
| | | 50% | #0 | -- | -- | 20.24 | 20.30 | 20.26 | 20.33 |
| | | 50% | #Mid | -- | -- | 20.27 | 20.30 | 20.24 | 20.37 |
| | | 50% | #Max | -- | -- | 20.25 | 20.31 | 20.31 | 20.32 |
| | | 100% | -- | -- | -- | 20.31 | 20.33 | 20.30 | 20.34 |
| | 16QAM | 1 | #0 | -- | -- | 19.66 | 19.84 | 19.91 | 19.75 |
| | | 1 | #Mid | -- | -- | 19.89 | 19.89 | 19.58 | 19.90 |
| | | 1 | #Max | -- | -- | 19.65 | 19.87 | 19.89 | 19.75 |
| | | 50% | #0 | -- | -- | 19.12 | 19.16 | 19.36 | 19.15 |
| | | 50% | #Mid | -- | -- | 19.48 | 19.23 | 19.34 | 19.29 |
| | | 50% | #Max | -- | -- | 19.45 | 19.17 | 19.16 | 19.19 |
| | | 100% | -- | -- | -- | 19.16 | 19.35 | 19.28 | 19.24 |
| | 64QAM | 1 | #0 | -- | -- | 18.71 | 18.89 | 18.87 | 18.68 |
| | | 1 | #Mid | -- | -- | 19.40 | 18.93 | 18.72 | 18.88 |
| | | 1 | #Max | -- | -- | 18.70 | 18.90 | 18.83 | 18.86 |
| | | 50% | #0 | -- | -- | 18.22 | 18.27 | 18.44 | 18.26 |
| | | 50% | #Mid | -- | -- | 18.24 | 18.58 | 18.45 | 18.23 |
| | | 50% | #Max | -- | -- | 18.23 | 18.35 | 18.36 | 18.23 |
| | | 100% | -- | -- | -- | 18.24 | 18.35 | 18.34 | 18.36 |
| Mid | QPSK | 1 | #0 | -- | -- | 21.06 | 21.33 | 21.25 | 21.41 |
| | | 1 | #Mid | -- | -- | 21.33 | 21.19 | 21.15 | 21.33 |
| | | 1 | #Max | -- | -- | 21.01 | 21.34 | 21.11 | 21.35 |
| | | 50% | #0 | -- | -- | 20.18 | 20.32 | 20.26 | 20.25 |
| | | 50% | #Mid | -- | -- | 20.20 | 20.34 | 20.22 | 20.27 |
| | | 50% | #Max | -- | -- | 20.24 | 20.32 | 20.28 | 20.23 |
| | | 100% | -- | -- | -- | 20.26 | 20.26 | 20.20 | 20.26 |
| | 16QAM | 1 | #0 | -- | -- | 19.58 | 19.95 | 19.92 | 19.64 |
| | | 1 | #Mid | -- | -- | 19.91 | 20.06 | 19.68 | 19.95 |
| | | 1 | #Max | -- | -- | 19.58 | 19.75 | 19.66 | 19.69 |
| | | 50% | #0 | -- | -- | 19.06 | 19.17 | 19.23 | 19.12 |
| | | 50% | #Mid | -- | -- | 19.39 | 19.59 | 19.32 | 19.30 |
| | | 50% | #Max | -- | -- | 19.09 | 19.22 | 19.15 | 19.13 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 100% | -- | -- | -- | 19.12 | 19.31 | 19.23 | 19.19 |
| | 64QAM | 1 | #0 | -- | -- | 18.84 | 18.99 | 18.85 | 18.76 |
| | | 1 | #Mid | -- | -- | 19.44 | 19.06 | 18.74 | 18.86 |
| | | 1 | #Max | -- | -- | 18.75 | 18.89 | 18.81 | 18.75 |
| | | 50% | #0 | -- | -- | 18.14 | 18.62 | 18.23 | 18.23 |
| | | 50% | #Mid | -- | -- | 18.17 | 18.32 | 18.21 | 18.19 |
| | | 50% | #Max | -- | -- | 18.10 | 18.63 | 18.19 | 18.21 |
| | | 100% | -- | -- | -- | 18.23 | 18.26 | 18.31 | 18.39 |
| High | QPSK | 1 | #0 | -- | -- | 21.01 | 21.01 | 21.14 | 21.15 |
| | | 1 | #Mid | -- | -- | 21.07 | 21.02 | 21.05 | 21.09 |
| | | 1 | #Max | -- | -- | 21.05 | 21.10 | 21.10 | 21.11 |
| | | 50% | #0 | -- | -- | 20.02 | 20.18 | 20.22 | 20.24 |
| | | 50% | #Mid | -- | -- | 20.19 | 20.18 | 20.19 | 20.20 |
| | | 50% | #Max | -- | -- | 20.13 | 20.13 | 20.19 | 20.21 |
| | | 100% | -- | -- | -- | 20.17 | 20.10 | 20.12 | 20.20 |
| | 16QAM | 1 | #0 | -- | -- | 19.40 | 19.68 | 19.75 | 19.61 |
| | | 1 | #Mid | -- | -- | 19.67 | 19.69 | 19.64 | 19.73 |
| | | 1 | #Max | -- | -- | 19.66 | 19.60 | 19.53 | 19.61 |
| | | 50% | #0 | -- | -- | 19.15 | 19.06 | 19.01 | 19.07 |
| | | 50% | #Mid | -- | -- | 19.32 | 19.07 | 19.06 | 19.10 |
| | | 50% | #Max | -- | -- | 19.29 | 19.08 | 19.07 | 19.24 |
| | | 100% | -- | -- | -- | 19.19 | 19.26 | 19.19 | 19.18 |
| | 64QAM | 1 | #0 | -- | -- | 18.59 | 18.72 | 18.81 | 18.68 |
| | | 1 | #Mid | -- | -- | 19.26 | 18.84 | 18.69 | 18.78 |
| | | 1 | #Max | -- | -- | 18.64 | 18.81 | 18.76 | 18.68 |
| | | 50% | #0 | -- | -- | 17.92 | 18.21 | 18.25 | 18.15 |
| | | 50% | #Mid | -- | -- | 18.11 | 18.23 | 18.23 | 18.22 |
| | | 50% | #Max | -- | -- | 18.06 | 18.17 | 18.26 | 18.18 |
| | | 100% | -- | -- | -- | 18.13 | 18.25 | 18.16 | 18.32 |

| Channel | Modulation | LTE Band 41 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | RB | RB | Maximum Conducted Output Power | | | | | |
| | | No. | Offset | 1.4M | 3M | 5M | 10M | 15M | 20M |
| Low | QPSK | 1 | #0 | -- | -- | 22.22 | 22.19 | 22.22 | 22.27 |
| | | 1 | #Mid | -- | -- | 22.25 | 22.23 | 22.12 | 22.34 |
| | | 1 | #Max | -- | -- | 21.88 | 22.14 | 22.09 | 22.21 |
| | | 50% | #0 | -- | -- | 21.15 | 21.15 | 21.15 | 21.45 |
| | | 50% | #Mid | -- | -- | 21.20 | 21.11 | 21.13 | 21.45 |
| | | 50% | #Max | -- | -- | 21.10 | 21.14 | 21.11 | 21.39 |
| | | 100% | -- | -- | -- | 21.08 | 21.16 | 21.10 | 21.41 |
| | 16QAM | 1 | #0 | -- | -- | 20.65 | 20.72 | 20.70 | 20.65 |
| | | 1 | #Mid | -- | -- | 20.66 | 20.86 | 20.75 | 20.87 |
| | | 1 | #Max | -- | -- | 20.61 | 20.59 | 20.55 | 20.45 |
| | | 50% | #0 | -- | -- | 20.35 | 20.48 | 20.02 | 20.18 |
| | | 50% | #Mid | -- | -- | 20.39 | 20.47 | 20.02 | 20.25 |
| | | 50% | #Max | -- | -- | 20.32 | 20.45 | 20.09 | 20.32 |
| | | 100% | -- | -- | -- | 20.50 | 20.11 | 20.20 | 20.24 |
| | 64QAM | 1 | #0 | -- | -- | 20.27 | 20.20 | 20.39 | 20.24 |
| | | 1 | #Mid | -- | -- | 20.42 | 20.30 | 20.26 | 20.32 |
| | | 1 | #Max | -- | -- | 19.94 | 20.20 | 20.22 | 20.17 |
| | | 50% | #0 | -- | -- | 20.37 | 20.20 | 20.05 | 20.13 |
| | | 50% | #Mid | -- | -- | 20.34 | 20.18 | 20.17 | 20.19 |
| | | 50% | #Max | -- | -- | 20.30 | 20.27 | 20.16 | 20.15 |
| | | 100% | -- | -- | -- | 20.40 | 20.23 | 20.18 | 20.20 |
| Mid | QPSK | 1 | #0 | -- | -- | 21.76 | 21.92 | 21.99 | 22.30 |
| | | 1 | #Mid | -- | -- | 22.01 | 22.04 | 21.96 | 22.60 |
| | | 1 | #Max | -- | -- | 21.83 | 22.01 | 21.91 | 22.25 |
| | | 50% | #0 | -- | -- | 20.99 | 21.08 | 21.01 | 21.46 |
| | | 50% | #Mid | -- | -- | 21.06 | 21.07 | 21.06 | 21.54 |
| | | 50% | #Max | -- | -- | 21.01 | 21.04 | 21.05 | 21.53 |
| | | 100% | -- | -- | -- | 20.99 | 21.06 | 21.05 | 21.53 |
| | 16QAM | 1 | #0 | -- | -- | 20.34 | 20.52 | 20.30 | 20.48 |
| | | 1 | #Mid | -- | -- | 20.63 | 20.77 | 20.51 | 20.76 |
| | | 1 | #Max | -- | -- | 20.54 | 20.58 | 20.49 | 20.42 |
| | | 50% | #0 | -- | -- | 20.19 | 20.40 | 20.08 | 19.90 |
| | | 50% | #Mid | -- | -- | 20.31 | 20.37 | 20.19 | 20.18 |
| | | 50% | #Max | -- | -- | 20.23 | 20.36 | 20.22 | 20.14 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 100% | -- | -- | -- | 20.19 | 20.02 | 20.11 | 20.06 |
| | 64QAM | 1 | #0 | -- | -- | 19.82 | 20.05 | 20.35 | 19.75 |
| | | 1 | #Mid | -- | -- | 20.30 | 20.18 | 20.20 | 20.11 |
| | | 1 | #Max | -- | -- | 20.06 | 20.01 | 20.23 | 20.08 |
| | | 50% | #0 | -- | -- | 20.23 | 20.10 | 20.24 | 20.05 |
| | | 50% | #Mid | -- | -- | 20.25 | 20.13 | 20.31 | 20.10 |
| | | 50% | #Max | -- | -- | 20.24 | 20.16 | 20.33 | 20.05 |
| | | 100% | -- | -- | -- | 20.12 | 20.16 | 20.09 | 20.10 |
| High | QPSK | 1 | #0 | -- | -- | 21.41 | 21.54 | 21.64 | 21.75 |
| | | 1 | #Mid | -- | -- | 21.51 | 21.66 | 21.63 | 22.07 |
| | | 1 | #Max | -- | -- | 21.37 | 21.61 | 21.64 | 21.83 |
| | | 50% | #0 | -- | -- | 20.62 | 20.74 | 20.73 | 20.94 |
| | | 50% | #Mid | -- | -- | 20.70 | 20.73 | 20.73 | 20.95 |
| | | 50% | #Max | -- | -- | 20.65 | 20.73 | 20.71 | 21.02 |
| | | 100% | -- | -- | -- | 20.63 | 20.71 | 20.70 | 20.96 |
| | 16QAM | 1 | #0 | -- | -- | 20.10 | 20.18 | 20.18 | 20.10 |
| | | 1 | #Mid | -- | -- | 20.12 | 20.44 | 20.29 | 20.31 |
| | | 1 | #Max | -- | -- | 20.11 | 20.27 | 20.22 | 20.13 |
| | | 50% | #0 | -- | -- | 19.82 | 20.06 | 19.63 | 19.61 |
| | | 50% | #Mid | -- | -- | 19.81 | 19.86 | 19.80 | 19.83 |
| | | 50% | #Max | -- | -- | 19.86 | 20.06 | 19.87 | 19.81 |
| | | 100% | -- | -- | -- | 20.00 | 19.65 | 19.73 | 19.75 |
| | 64QAM | 1 | #0 | -- | -- | 19.75 | 19.74 | 19.95 | 19.56 |
| | | 1 | #Mid | -- | -- | 19.96 | 19.81 | 19.60 | 19.88 |
| | | 1 | #Max | -- | -- | 19.60 | 19.57 | 19.89 | 19.84 |
| | | 50% | #0 | -- | -- | 19.57 | 19.79 | 19.93 | 19.76 |
| | | 50% | #Mid | -- | -- | 19.67 | 19.79 | 19.91 | 19.76 |
| | | 50% | #Max | -- | -- | 19.82 | 19.78 | 19.69 | 19.73 |
| | | 100% | -- | -- | -- | 19.77 | 19.77 | 19.72 | 19.79 |

| Channel | Modulation | LTE Band 66 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | RB | RB | Maximum Conducted Output Power | | | | | |
| | | No. | Offset | 1.4M | 3M | 5M | 10M | 15M | 20M |
| Low | QPSK | 1 | #0 | 17.50 | 17.29 | 17.41 | 17.48 | 17.54 | 17.59 |
| | | 1 | #Mid | 17.60 | 17.54 | 17.60 | 17.61 | 17.59 | 17.94 |
| | | 1 | #Max | 17.52 | 17.27 | 17.44 | 17.29 | 17.45 | 17.54 |
| | | 50% | #0 | 16.67 | 16.54 | 16.70 | 16.65 | 16.55 | 16.77 |
| | | 50% | #Mid | 16.53 | 16.51 | 16.69 | 16.63 | 16.57 | 16.73 |
| | | 50% | #Max | 16.62 | 16.55 | 16.57 | 16.63 | 16.47 | 16.68 |
| | | 100% | -- | 16.62 | 16.64 | 16.47 | 16.61 | 16.53 | 16.72 |
| | 16QAM | 1 | #0 | 16.48 | 16.62 | 16.42 | 16.46 | 16.41 | 16.73 |
| | | 1 | #Mid | 16.50 | 16.65 | 16.50 | 16.64 | 16.62 | 16.74 |
| | | 1 | #Max | 16.45 | 16.57 | 16.41 | 16.45 | 16.34 | 16.60 |
| | | 50% | #0 | 15.78 | 15.44 | 15.47 | 15.77 | 15.46 | 15.89 |
| | | 50% | #Mid | 15.75 | 15.35 | 15.43 | 15.75 | 15.44 | 15.83 |
| | | 50% | #Max | 15.68 | 15.31 | 15.51 | 15.60 | 15.47 | 15.71 |
| | | 100% | -- | 15.55 | 15.47 | 15.65 | 15.46 | 15.44 | 15.74 |
| | 64QAM | 1 | #0 | 16.63 | 16.52 | 16.46 | 16.59 | 16.41 | 16.82 |
| | | 1 | #Mid | **16.66** | 16.54 | 16.54 | 16.62 | 16.49 | 16.86 |
| | | 1 | #Max | 16.49 | 16.42 | 16.53 | 16.40 | 16.42 | 16.61 |
| | | 50% | #0 | 15.64 | 15.47 | 15.40 | 15.71 | 15.62 | 15.84 |
| | | 50% | #Mid | 15.63 | 15.57 | 15.49 | 15.70 | 15.54 | 15.73 |
| | | 50% | #Max | 15.61 | 15.46 | 15.40 | 15.63 | 15.46 | 15.72 |
| | | 100% | -- | 15.39 | 15.51 | 15.66 | 15.66 | 15.52 | 15.73 |
| Mid | QPSK | 1 | #0 | 17.74 | 17.80 | 17.80 | 17.76 | 17.75 | 17.93 |
| | | 1 | #Mid | **17.85** | **17.89** | **17.86** | **17.84** | **17.81** | **18.01** |
| | | 1 | #Max | 17.76 | 17.78 | 17.76 | 17.68 | 17.70 | 17.87 |
| | | 50% | #0 | 16.60 | 16.86 | 16.69 | 16.72 | 16.59 | 16.89 |
| | | 50% | #Mid | 16.65 | 16.75 | 16.72 | 16.77 | 16.62 | 16.79 |
| | | 50% | #Max | 16.74 | 16.80 | 16.67 | 16.69 | 16.52 | 16.81 |
| | | 100% | -- | 16.76 | 16.67 | 16.69 | 16.68 | 16.50 | 16.80 |
| | 16QAM | 1 | #0 | 16.82 | 16.85 | 16.81 | 16.80 | 16.70 | 16.94 |
| | | 1 | #Mid | **16.86** | **16.99** | **16.95** | **16.87** | **16.88** | **17.02** |
| | | 1 | #Max | 16.81 | 16.86 | 16.82 | 16.79 | 16.68 | 16.86 |
| | | 50% | #0 | 15.75 | 15.67 | 15.70 | 15.60 | 15.53 | 15.87 |
| | | 50% | #Mid | 15.70 | 15.73 | 15.75 | 15.64 | 15.54 | 15.85 |
| | | 50% | #Max | 15.62 | 15.77 | 15.63 | 15.59 | 15.55 | 15.88 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 100% | -- | 15.61 | 15.45 | 15.62 | 15.63 | 15.53 | 15.67 |
| | 64QAM | 1 | #0 | 16.46 | 16.42 | 16.83 | 16.88 | 16.76 | 16.93 |
| | | 1 | #Mid | 16.58 | 16.57 | **16.90** | **16.90** | **16.85** | **16.99** |
| | | 1 | #Max | 16.40 | 16.44 | 16.79 | 16.81 | 16.74 | 16.89 |
| | | 50% | #0 | 15.70 | 15.60 | 15.57 | 15.71 | 15.72 | 15.73 |
| | | 50% | #Mid | 15.77 | 15.53 | 15.48 | 15.71 | 15.71 | 15.78 |
| | | 50% | #Max | 15.64 | 15.54 | 15.51 | 15.68 | 15.65 | 15.74 |
| | | 100% | -- | 15.51 | 15.71 | 15.69 | 15.71 | 15.63 | 15.75 |
| High | QPSK | 1 | #0 | 17.66 | 17.79 | 17.57 | 17.61 | 17.67 | 17.83 |
| | | 1 | #Mid | 17.84 | 17.82 | 17.63 | 17.67 | 17.75 | 17.96 |
| | | 1 | #Max | 17.64 | 17.74 | 17.54 | 17.54 | 17.43 | 17.86 |
| | | 50% | #0 | 16.69 | 16.73 | 16.69 | 16.69 | 16.64 | 16.87 |
| | | 50% | #Mid | 16.67 | 16.68 | 16.67 | 16.68 | 16.57 | 16.78 |
| | | 50% | #Max | 16.70 | 16.68 | 16.64 | 16.62 | 16.54 | 16.73 |
| | | 100% | -- | 16.73 | 16.73 | 16.62 | 16.64 | 16.57 | 16.78 |
| | 16QAM | 1 | #0 | 16.60 | 16.63 | 16.41 | 16.63 | 16.58 | 16.68 |
| | | 1 | #Mid | 16.64 | 16.66 | 16.42 | 16.65 | 16.69 | 16.96 |
| | | 1 | #Max | 16.49 | 16.48 | 16.40 | 16.54 | 16.66 | 16.73 |
| | | 50% | #0 | 15.86 | 15.48 | 15.41 | 15.59 | 15.65 | 15.89 |
| | | 50% | #Mid | 15.70 | 15.49 | 15.47 | 15.60 | 15.61 | 15.76 |
| | | 50% | #Max | 15.63 | 15.47 | 15.48 | 15.50 | 15.50 | 15.70 |
| | | 100% | -- | 15.56 | 15.70 | 15.53 | 15.66 | 15.59 | 15.77 |
| | 64QAM | 1 | #0 | 16.40 | 16.52 | 16.40 | 16.38 | 16.49 | 16.62 |
| | | 1 | #Mid | 16.58 | **16.60** | 16.55 | 16.52 | 16.69 | 16.76 |
| | | 1 | #Max | 16.48 | 16.50 | 16.49 | 16.43 | 16.48 | 16.71 |
| | | 50% | #0 | 15.72 | 15.64 | 15.50 | 15.78 | 15.58 | 15.91 |
| | | 50% | #Mid | 15.70 | 15.62 | 15.49 | 15.77 | 15.62 | 15.88 |
| | | 50% | #Max | 15.69 | 15.60 | 15.51 | 15.70 | 15.71 | 15.83 |
| | | 100% | -- | 15.62 | 15.63 | 15.68 | 15.74 | 15.64 | 15.90 |

# 9. Test Results

## 9.1 SAR Test Results Summary

| WLAN 2.4G Head SAR | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| SAR MEASUREMENT | | | | | | | | |
| Liquid Temperature (°C) : 21.9 ±2 | | | | | Relative Humidity (%) : 51% | | | |
| Ambient Temperature (°C) : 22.7 ±2 | | | | | Depth of Liquid (cm) : >15 | | | |
| Test Position | Dist (mm) | Frequency | | Conducted Power (dBm) | | **SAR** 1g (W/kg) | | Plot No. |
| | | Channel | MHz | Measurement | Tune-up Limit | Measurement | Tune-up Scaled | |
| Test Mode : 802.11b_Main | | | | | | | | |
| Left-Cheek | 0 | 1 | 2412 | 17.88 | 18 | 0.810 | **0.833** | 1 |
| Left-Cheek | 0 | 6 | 2437 | 17.92 | 18 | 0.669 | 0.681 | |
| Left-Cheek | 0 | 11 | 2462 | 17.85 | 18 | 0.731 | 0.757 | |
| Left-Tilt | 0 | 6 | 2437 | 17.92 | 18 | 0.490 | 0.499 | |
| Right-Cheek | 0 | 6 | 2437 | 17.92 | 18 | 0.342 | 0.348 | |
| Right-Tilt | 0 | 6 | 2437 | 17.92 | 18 | 0.240 | 0.244 | |
| Test Mode : BT-1M_Main | | | | | | | | |
| Left-Cheek | 0 | 0 | 2402 | 7.51 | 8 | 0.046 | 0.052 | 2 |
| Left-Tilt | 0 | 0 | 2402 | 7.51 | 8 | 0.024 | 0.027 | |
| Right-Cheek | 0 | 0 | 2402 | 7.51 | 8 | 0.030 | 0.033 | |
| Right-Tilt | 0 | 0 | 2402 | 7.51 | 8 | 0.011 | 0.012 | |

Note: 1. When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required.

2. When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.

**WLAN 2.4G Body SAR**

SAR MEASUREMENT

Liquid Temperature (°C) : 21.9 ±2 Relative Humidity (%) : 51%

Ambient Temperature (°C) : 22.7 ±2 Depth of Liquid (cm) : >15

| Test Position | Dist (mm) | Frequency | | Conducted Power (dBm) | | **SAR** 1g (W/kg) | | Plot No. |
|---|---|---|---|---|---|---|---|---|
| | | Channel | MHz | Measurement | Tune-up Limit | Measurement | Tune-up Scaled | |
| Test Mode : 802.11b_Main_10mm | | | | | | | | |
| Front | 10 | 6 | 2437 | 17.92 | 18 | 0.102 | 0.104 | |
| Back | 10 | 1 | 2412 | 17.88 | 18 | 0.188 | 0.193 | |
| Back | 10 | 6 | 2437 | 17.92 | 18 | 0.171 | 0.174 | |
| Back | 10 | 11 | 2462 | 17.85 | 18 | 0.204 | **0.211** | 3 |
| Right-side | 10 | 6 | 2437 | 17.92 | 18 | 0.120 | 0.122 | |
| Top | 10 | 6 | 2437 | 17.92 | 18 | 0.114 | 0.116 | |
| Test Mode : BT-1M_Main_10mm | | | | | | | | |
| Front | 10 | 0 | 2402 | 7.51 | 8 | 0.011 | 0.012 | |
| Back | 10 | 0 | 2402 | 7.51 | 8 | 0.013 | 0.015 | 4 |
| Right-side | 10 | 0 | 2402 | 7.51 | 8 | 0.00699 | 0.008 | |
| Top | 10 | 0 | 2402 | 7.51 | 8 | 0.00616 | 0.007 | |

Note: 1. When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required.

2. When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.

| **WLAN 2.4G Product Specific 10g(Extremity)SAR** | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| SAR MEASUREMENT | | | | | | | | |
| Liquid Temperature (°C) : 21.9 ±2 | | | | | Relative Humidity (%) : 51% | | | |
| Ambient Temperature (°C) : 22.7 ±2 | | | | | Depth of Liquid (cm) : >15 | | | |
| Test Position | Dist (mm) | Frequency | | Conducted Power (dBm) | | **SAR** 10g (W/kg) | | Plot No. |
| | | Channel | MHz | Measurement | Tune-up Limit | Measurement | Tune-up Scaled | |
| Test Mode : 802.11b_Main_0mm | | | | | | | | |
| Front | 0 | 6 | 2437 | 17.92 | 18 | 0.501 | 0.510 | |
| Back | 0 | 1 | 2412 | 17.88 | 18 | 0.508 | 0.522 | |
| Back | 0 | 6 | 2437 | 17.92 | 18 | 0.525 | **0.535** | 5 |
| Back | 0 | 11 | 2462 | 17.85 | 18 | 0.515 | 0.533 | |
| Right-side | 0 | 6 | 2437 | 17.92 | 18 | 0.288 | 0.293 | |
| Top | 0 | 6 | 2437 | 17.92 | 18 | 0.242 | 0.246 | |
| Test Mode : BT-1M_Main_0mm | | | | | | | | |
| Front | 0 | 0 | 2402 | 7.51 | 8 | 0.048 | 0.054 | |
| Back | 0 | 0 | 2402 | 7.51 | 8 | 0.051 | 0.057 | 6 |
| Right-side | 0 | 0 | 2402 | 7.51 | 8 | 0.028 | 0.031 | |
| Top | 0 | 0 | 2402 | 7.51 | 8 | 0.018 | 0.020 | |

Note: 1. When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required.

2. When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.

| **WLAN 5G Head SAR** | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| SAR MEASUREMENT | | | | | | | | |
| Liquid Temperature (°C) : 21.8 ±2 | | | | | Relative Humidity (%) : 52% | | | |
| Ambient Temperature (°C) : 22.8 ±2 | | | | | Depth of Liquid (cm) : >15 | | | |
| Test Position | Dist (mm) | Frequency | | Conducted Power (dBm) | | **SAR** 1g (W/kg) | | Plot No. |
| | | Channel | MHz | Measurement | Tune-up Limit | Measurement | Tune-up Scaled | |
| Test Mode :802.11ac80M_Main | | | | | | | | |
| Left-Cheek | 0 | 42 | 5210 | 14.43 | 14.5 | 0.852 | 0.866 | |
| Left-Cheek | 0 | 58 | 5290 | 14.44 | 14.5 | 0.844 | 0.856 | |
| Left-Cheek | 0 | 106 | 5530 | 14.31 | 14.5 | 0.803 | 0.839 | |
| Left-Cheek | 0 | 122 | 5610 | 14.43 | 14.5 | 0.854 | 0.868 | |
| Left-Cheek | 0 | 138 | 5690 | 14.43 | 14.5 | 1.070 | **1.087** | 7 |
| Left-Cheek | 0 | 155 | 5775 | 14.38 | 14.5 | 0.962 | 0.989 | |
| Left-Tilt | 0 | 58 | 5290 | 14.44 | 14.5 | 0.784 | 0.795 | |
| Left-Tilt | 0 | 106 | 5530 | 14.31 | 14.5 | 0.815 | 0.851 | |
| Left-Tilt | 0 | 122 | 5610 | 14.43 | 14.5 | 0.798 | 0.811 | |
| Left-Tilt | 0 | 138 | 5690 | 14.43 | 14.5 | 0.961 | 0.977 | |
| Left-Tilt | 0 | 155 | 5775 | 14.38 | 14.5 | 0.937 | 0.963 | |
| Right-Cheek | 0 | 58 | 5290 | 14.44 | 14.5 | 0.635 | 0.644 | |
| Right-Cheek | 0 | 122 | 5610 | 14.43 | 14.5 | 0.732 | 0.744 | |
| Right-Cheek | 0 | 155 | 5775 | 14.38 | 14.5 | 0.706 | 0.726 | |
| Right-Tilt | 0 | 58 | 5290 | 14.44 | 14.5 | 0.755 | 0.766 | |
| Right-Tilt | 0 | 122 | 5610 | 14.43 | 14.5 | 0.745 | 0.757 | |
| Right-Tilt | 0 | 155 | 5775 | 14.38 | 14.5 | 0.846 | 0.870 | |

Note : 1. When multiple transmission modes have the same specified maximum output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected

2. When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in that exposure configuration.

3. When the reported SAR of the highest measured maximum U-NII-2A for the exposure configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band.

| **WLAN 5G Body SAR** | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| SAR MEASUREMENT | | | | | | | | |
| Liquid Temperature (°C) : 21.8 ±2 | | | | | Relative Humidity (%) : 52% | | | |
| Ambient Temperature (°C) : 22.8 ±2 | | | | | Depth of Liquid (cm) : >15 | | | |
| Test Position | Dist (mm) | Frequency | | Conducted Power (dBm) | | **SAR** 1g (W/kg) | | Plot No. |
| | | Channel | MHz | Measurement | Tune-up Limit | Measurement | Tune-up Scaled | |
| Test Mode :802.11ac80M_Main_10mm | | | | | | | | |
| Front | 10 | 42 | 5210 | 14.43 | 14.5 | 0.165 | 0.168 | |
| Front | 10 | 58 | 5290 | 14.44 | 14.5 | 0.173 | 0.175 | |
| Front | 10 | 122 | 5610 | 14.43 | 14.5 | 0.233 | 0.237 | |
| Front | 10 | 155 | 5775 | 14.38 | 14.5 | 0.262 | 0.269 | |
| Back | 10 | 42 | 5210 | 14.43 | 14.5 | 0.151 | 0.153 | |
| Back | 10 | 58 | 5290 | 14.44 | 14.5 | 0.182 | 0.185 | |
| Back | 10 | 106 | 5530 | 14.31 | 14.5 | 0.257 | 0.268 | |
| Back | 10 | 122 | 5610 | 14.43 | 14.5 | 0.269 | 0.273 | |
| Back | 10 | 138 | 5690 | 14.43 | 14.5 | 0.333 | **0.338** | 8 |
| Back | 10 | 155 | 5775 | 14.38 | 14.5 | 0.322 | 0.331 | |
| Right-side | 10 | 42 | 5210 | 14.43 | 14.5 | 0.058 | 0.059 | |
| Right-side | 10 | 155 | 5775 | 14.38 | 14.5 | 0.105 | 0.108 | |
| Top | 10 | 42 | 5210 | 14.43 | 14.5 | 0.253 | 0.257 | |
| Top | 10 | 155 | 5775 | 14.38 | 14.5 | 0.265 | 0.272 | |

Note : 1. When multiple transmission modes have the same specified maximum output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected

2. When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in that exposure configuration.

3. When the reported SAR of the highest measured maximum U-NII-2A for the exposure configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band.

| WLAN 5G Product Specific 10g (Extremity) SAR | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| SAR MEASUREMENT | | | | | | | | |
| Liquid Temperature (°C) : 21.8 ±2 | | | | | Relative Humidity (%) : 52% | | | |
| Ambient Temperature (°C) : 22.8 ±2 | | | | | Depth of Liquid (cm) : >15 | | | |
| Test Position | Dist (mm) | Frequency | | Conducted Power (dBm) | | **SAR** 10g (W/kg) | | Plot No. |
| | | Channel | MHz | Measurement | Tune-up Limit | Measurement | Tune-up Scaled | |
| Test Mode : 802.11ac80M_Main_0mm | | | | | | | | |
| Front | 0 | 58 | 5290 | 14.44 | 14.5 | 0.263 | 0.267 | |
| Front | 0 | 122 | 5610 | 14.43 | 14.5 | 0.299 | 0.304 | |
| Front | 0 | 155 | 5775 | 14.38 | 14.5 | 0.324 | 0.333 | |
| Back | 0 | 58 | 5290 | 14.44 | 14.5 | 0.294 | 0.298 | |
| Back | 0 | 122 | 5610 | 14.43 | 14.5 | 0.380 | 0.386 | |
| Back | 0 | 155 | 5775 | 14.38 | 14.5 | 0.389 | 0.400 | |
| Right-side | 0 | 58 | 5290 | 14.44 | 14.5 | 0.083 | 0.084 | |
| Right-side | 0 | 122 | 5610 | 14.43 | 14.5 | 0.100 | 0.102 | |
| Right-side | 0 | 155 | 5775 | 14.38 | 14.5 | 0.111 | 0.114 | |
| Top | 0 | 58 | 5290 | 14.44 | 14.5 | 0.539 | 0.546 | |
| Top | 0 | 106 | 5530 | 14.31 | 14.5 | 0.586 | 0.612 | |
| Top | 0 | 122 | 5610 | 14.43 | 14.5 | 0.671 | **0.682** | 9 |
| Top | 0 | 138 | 5690 | 14.43 | 14.5 | 0.643 | 0.653 | |
| Top | 0 | 155 | 5775 | 14.38 | 14.5 | 0.630 | 0.648 | |

Note : 1. When multiple transmission modes have the same specified maximum output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected

2. When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in that exposure configuration.

3. When the reported SAR of the highest measured maximum U-NII-2A for the exposure configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band.

| GSM850 Head SAR | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| SAR MEASUREMENT | | | | | | | | |
| Liquid Temperature (°C) : 22.2 ±2 | | | | | Relative Humidity (%) : 51% | | | |
| Ambient Temperature (°C) : 23.1 ±2 | | | | | Depth of Liquid (cm) : >15 | | | |
| Test Position | Dist (mm) | Frequency | | Conducted Power (dBm) | | **SAR** 1g (W/kg) | | Plot No. |
| | | Channel | MHz | Measurement | Tune-up Limit | Measurement | Tune-up Scaled | |
| Test Mode : GSM850 GPRS 4UP | | | | | | | | |
| Left-Cheek | 0 | 189 | 836.4 | 29.61 | 30 | 0.618 | 0.676 | |
| Left-Tilt | 0 | 189 | 836.4 | 29.61 | 30 | 0.485 | 0.531 | |
| Right-Cheek | 0 | 128 | 824.2 | 29.59 | 30 | 0.819 | **0.900** | 10 |
| Right-Cheek | 0 | 189 | 836.4 | 29.61 | 30 | 0.669 | 0.732 | |
| Right-Cheek | 0 | 251 | 848.8 | 29.55 | 30 | 0.625 | 0.693 | |
| Right-Tilt | 0 | 189 | 836.4 | 29.61 | 30 | 0.513 | 0.561 | |
| Note: 1. When the reported SAR of the Mid channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in other channel. | | | | | | | | |

| GSM850 Body SAR | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| SAR MEASUREMENT | | | | | | | | |
| Liquid Temperature (°C) : 22.2 ±2 | | | | | Relative Humidity (%) : 51% | | | |
| Ambient Temperature (°C) : 23.1 ±2 | | | | | Depth of Liquid (cm) : >15 | | | |
| Test Position | Dist (mm) | Frequency | | Conducted Power (dBm) | | **SAR** 1g (W/kg) | | Plot No. |
| | | Channel | MHz | Measurement | Tune-up Limit | Measurement | Tune-up Scaled | |
| Test Mode : GSM850 GPRS 4UP_10mm | | | | | | | | |
| Front | 10 | 128 | 824.2 | 29.59 | 30 | 0.836 | **0.919** | 11 |
| Front | 10 | 189 | 836.4 | 29.61 | 30 | 0.674 | 0.737 | |
| Front | 10 | 251 | 848.8 | 29.55 | 30 | 0.660 | 0.732 | |
| Back | 10 | 189 | 836.4 | 29.61 | 30 | 0.623 | 0.682 | |
| Left-side | 10 | 189 | 836.4 | 29.61 | 30 | 0.480 | 0.525 | |
| Right-side | 10 | 189 | 836.4 | 29.61 | 30 | 0.474 | 0.519 | |
| Bottom | 10 | 189 | 836.4 | 29.61 | 30 | 0.113 | 0.124 | |
| Note: 1. When the reported SAR of the Mid channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in other channel. | | | | | | | | |

| PCS1900 Head SAR | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| SAR MEASUREMENT | | | | | | | | |
| Liquid Temperature (°C) : 22.2 ±2 | | | | | Relative Humidity (%) : 51% | | | |
| Ambient Temperature (°C) : 23.1 ±2 | | | | | Depth of Liquid (cm) : >15 | | | |
| Test Position | Dist (mm) | Frequency | | Conducted Power (dBm) | | **SAR** 1g (W/kg) | | Plot No. |
| | | Channel | MHz | Measurement | Tune-up Limit | Measurement | Tune-up Scaled | |
| Test Mode : PCS1900 GPRS 4UP | | | | | | | | |
| Left-Cheek | 0 | 512 | 1850.2 | 27.37 | 28 | 0.317 | 0.366 | |
| Left-Cheek | 0 | 661 | 1880 | 27.38 | 28 | 0.610 | 0.704 | |
| Left-Cheek | 0 | 810 | 1909.8 | 27.17 | 28 | 0.594 | **0.719** | 12 |
| Left-Tilt | 0 | 661 | 1880 | 27.38 | 28 | 0.309 | 0.356 | |
| Right-Cheek | 0 | 661 | 1880 | 27.38 | 28 | 0.470 | 0.542 | |
| Right-Tilt | 0 | 661 | 1880 | 27.38 | 28 | 0.269 | 0.310 | |
| Note: 1. When the reported SAR of the Mid channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in other channel. | | | | | | | | |

| PCS1900 Body SAR | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| SAR MEASUREMENT | | | | | | | | |
| Liquid Temperature (°C) : 22.2 ±2 | | | | | Relative Humidity (%) : 51% | | | |
| Ambient Temperature (°C) : 23.1 ±2 | | | | | Depth of Liquid (cm) : >15 | | | |
| Test Position | Dist (mm) | Frequency | | Conducted Power (dBm) | | **SAR** 1g (W/kg) | | Plot No. |
| | | Channel | MHz | Measurement | Tune-up Limit | Measurement | Tune-up Scaled | |
| Test Mode : PCS1900 GPRS 4UP_10mm | | | | | | | | |
| Front | 10 | 661 | 1880 | 27.38 | 28 | 0.397 | 0.458 | |
| Back | 10 | 512 | 1850.2 | 27.37 | 28 | 1.000 | **1.156** | 13 |
| Back | 10 | 661 | 1880 | 27.38 | 28 | 0.852 | 0.983 | |
| Back | 10 | 810 | 1909.8 | 27.17 | 28 | 0.800 | 0.968 | |
| Left-side | 10 | 661 | 1880 | 27.38 | 28 | 0.282 | 0.325 | |
| Right-side | 10 | 661 | 1880 | 27.38 | 28 | 0.091 | 0.105 | |
| Bottom | 10 | 512 | 1850.2 | 27.37 | 28 | 0.572 | 0.661 | |
| Bottom | 10 | 661 | 1880 | 27.38 | 28 | 0.891 | 1.028 | |
| Bottom | 10 | 810 | 1909.8 | 27.17 | 28 | 0.928 | 1.123 | |
| Note: 1. When the reported SAR of the Mid channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in other channel. | | | | | | | | |

| **WCDMA B2 Head SAR** | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| SAR MEASUREMENT | | | | | | | | |
| Liquid Temperature (°C) : 21.7 ±2 | | | | | Relative Humidity (%) : 50% | | | |
| Ambient Temperature (°C) : 22.8 ±2 | | | | | Depth of Liquid (cm) : >15 | | | |
| Test Position | Dist (mm) | Frequency | | Conducted Power (dBm) | | **SAR** 1g (W/kg) | | Plot No. |
| | | Channel | MHz | Measurement | Tune-up Limit | Measurement | Tune-up Scaled | |
| Test Mode : WCDMA B2 RMC | | | | | | | | |
| Left-Cheek | 0 | 9262 | 1852.4 | 22.37 | 24 | 0.226 | 0.329 | |
| Left-Cheek | 0 | 9400 | 1880 | 22.65 | 24 | 0.337 | 0.460 | |
| Left-Cheek | 0 | 9538 | 1907.6 | 22.46 | 24 | 0.449 | **0.640** | 14 |
| Left-Tilt | 0 | 9400 | 1880 | 22.65 | 24 | 0.240 | 0.327 | |
| Right-Cheek | 0 | 9400 | 1880 | 22.65 | 24 | 0.270 | 0.368 | |
| Right-Tilt | 0 | 9400 | 1880 | 22.65 | 24 | 0.211 | 0.288 | |
| Note: 1. When the reported SAR of the Mid channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in other channel. | | | | | | | | |

| **WCDMA B2 Body SAR** | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| SAR MEASUREMENT | | | | | | | | |
| Liquid Temperature (°C) : 21.7 ±2 | | | | | Relative Humidity (%) : 50% | | | |
| Ambient Temperature (°C) : 22.8 ±2 | | | | | Depth of Liquid (cm) : >15 | | | |
| Test Position | Dist (mm) | Frequency | | Conducted Power (dBm) | | **SAR** 1g (W/kg) | | Plot No. |
| | | Channel | MHz | Measurement | Tune-up Limit | Measurement | Tune-up Scaled | |
| Test Mode : WCDMA B2 RMC_10mm | | | | | | | | |
| Front | 10 | 9400 | 1880 | 22.65 | 24 | 0.312 | 0.426 | |
| Back | 10 | 9400 | 1880 | 22.65 | 24 | 0.596 | 0.813 | 15 |
| Left-side | 10 | 9400 | 1880 | 22.65 | 24 | 0.198 | 0.270 | |
| Right-side | 10 | 9400 | 1880 | 22.65 | 24 | 0.067 | 0.091 | |
| Bottom | 10 | 9262 | 1852.4 | 22.37 | 24 | 0.722 | 1.051 | |
| Bottom | 10 | 9400 | 1880 | 22.65 | 24 | 0.879 | **1.199** | 16 |
| Bottom | 10 | 9538 | 1907.6 | 22.46 | 24 | 0.746 | 1.064 | |
| Note: 1. When the reported SAR of the Mid channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in other channel. | | | | | | | | |

| **WCDMA B4 Head SAR** | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| SAR MEASUREMENT | | | | | | | | |
| Liquid Temperature (°C) : 22.2 ±2 | | | | | Relative Humidity (%) : 51% | | | |
| Ambient Temperature (°C) : 23.1 ±2 | | | | | Depth of Liquid (cm) : >15 | | | |
| Test Position | Dist (mm) | Frequency | | Conducted Power (dBm) | | **SAR** 1g (W/kg) | | Plot No. |
| | | Channel | MHz | Measurement | Tune-up Limit | Measurement | Tune-up Scaled | |
| Test Mode : WCDMA B4 RMC | | | | | | | | |
| Left-Cheek | 0 | 1312 | 1712.4 | 18.54 | 19 | 0.128 | 0.142 | |
| Left-Cheek | 0 | 1413 | 1732.6 | 18.83 | 19 | 0.165 | 0.172 | |
| Left-Cheek | 0 | 1513 | 1752.6 | 18.72 | 19 | 0.225 | **0.240** | 17 |
| Left-Tilt | 0 | 1413 | 1732.6 | 18.83 | 19 | 0.102 | 0.106 | |
| Right-Cheek | 0 | 1413 | 1732.6 | 18.83 | 19 | 0.100 | 0.104 | |
| Right-Tilt | 0 | 1413 | 1732.6 | 18.83 | 19 | 0.143 | 0.149 | |
| Note: 1. When the reported SAR of the Mid channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in other channel. | | | | | | | | |

| **WCDMA B4 Body SAR** | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| SAR MEASUREMENT | | | | | | | | |
| Liquid Temperature (°C) : 22.2 ±2 | | | | | Relative Humidity (%) : 51% | | | |
| Ambient Temperature (°C) : 23.1 ±2 | | | | | Depth of Liquid (cm) : >15 | | | |
| Test Position | Dist (mm) | Frequency | | Conducted Power (dBm) | | **SAR** 1g (W/kg) | | Plot No. |
| | | Channel | MHz | Measurement | Tune-up Limit | Measurement | Tune-up Scaled | |
| Test Mode : WCDMA B4 RMC 10mm | | | | | | | | |
| Front | 10 | 1413 | 1732.6 | 18.83 | 19 | 0.266 | 0.277 | |
| Back | 10 | 1312 | 1712.4 | 18.54 | 19 | 0.987 | 1.097 | 18 |
| Back | 10 | 1413 | 1732.6 | 18.83 | 19 | 0.936 | 0.973 | |
| Back | 10 | 1513 | 1752.6 | 18.72 | 19 | 0.740 | 0.789 | |
| Left-side | 10 | 1413 | 1732.6 | 18.83 | 19 | 0.089 | 0.093 | |
| Right-side | 10 | 1413 | 1732.6 | 18.83 | 19 | 0.040 | 0.042 | |
| Bottom | 10 | 1312 | 1712.4 | 18.54 | 19 | 1.060 | **1.178** | 19 |
| Bottom | 10 | 1413 | 1732.6 | 18.83 | 19 | 0.962 | 1.000 | |
| Bottom | 10 | 1513 | 1752.6 | 18.72 | 19 | 0.796 | 0.849 | |
| Note: 1. When the reported SAR of the Mid channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in other channel. | | | | | | | | |

| **WCDMA B5 Head SAR** | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| SAR MEASUREMENT | | | | | | | | |
| Liquid Temperature (°C) : 22.1 ±2 | | | | | Relative Humidity (%) : 52% | | | |
| Ambient Temperature (°C) : 23.2 ±2 | | | | | Depth of Liquid (cm) : >15 | | | |
| Test Position | Dist (mm) | Frequency | | Conducted Power (dBm) | | **SAR** 1g (W/kg) | | Plot No. |
| | | Channel | MHz | Measurement | Tune-up Limit | Measurement | Tune-up Scaled | |
| Test Mode : WCDMA B5 RMC | | | | | | | | |
| Left-Cheek | 0 | 4183 | 836.6 | 23.12 | 25 | 0.283 | 0.436 | |
| Left-Tilt | 0 | 4183 | 836.6 | 23.12 | 25 | 0.163 | 0.251 | |
| Right-Cheek | 0 | 4132 | 826.4 | 23.03 | 25 | 0.287 | 0.452 | |
| Right-Cheek | 0 | 4183 | 836.6 | 23.12 | 25 | 0.295 | 0.455 | |
| Right-Cheek | 0 | 4233 | 846.6 | 23.01 | 25 | 0.311 | **0.492** | 20 |
| Right-Tilt | 0 | 4183 | 836.6 | 23.12 | 25 | 0.134 | 0.207 | |
| Note: 1. When the reported SAR of the Mid channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in other channel. | | | | | | | | |

| **WCDMA B5 Body SAR** | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| SAR MEASUREMENT | | | | | | | | |
| Liquid Temperature (°C) : 22.1 ±2 | | | | | Relative Humidity (%) : 51% | | | |
| Ambient Temperature (°C) : 23.2 ±2 | | | | | Depth of Liquid (cm) : >15 | | | |
| Test Position | Dist (mm) | Frequency | | Conducted Power (dBm) | | **SAR** 1g (W/kg) | | Plot No. |
| | | Channel | MHz | Measurement | Tune-up Limit | Measurement | Tune-up Scaled | |
| Test Mode : WCDMA B5 RMC_10mm | | | | | | | | |
| Front | 10 | 4132 | 826.4 | 23.03 | 25 | 0.248 | 0.390 | |
| Front | 10 | 4183 | 836.6 | 23.12 | 25 | 0.253 | **0.390** | 21 |
| Front | 10 | 4233 | 846.6 | 23.01 | 25 | 0.242 | 0.383 | |
| Back | 10 | 4183 | 836.6 | 23.12 | 25 | 0.242 | 0.373 | |
| Left-side | 10 | 4183 | 836.6 | 23.12 | 25 | 0.139 | 0.214 | |
| Right-side | 10 | 4183 | 836.6 | 23.12 | 25 | 0.150 | 0.231 | |
| Bottom | 10 | 4183 | 836.6 | 23.12 | 25 | 0.043 | 0.067 | |
| Note: 1. When the reported SAR of the Mid channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in other channel. | | | | | | | | |

| LTE Band 7 Head SAR | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SAR MEASUREMENT | | | | | | | | | | |
| Liquid Temperature (°C): 21.7 ±2 | | | | | | Relative Humidity (%): 50 | | | | |
| Ambient Temperature (°C): 22.8 ±2 | | | | | | Depth of Liquid (cm): >15 | | | | |
| Test Position | Dist (mm) | RB | RB offset | Frequency | | Conducted Power (dBm) | | SAR 1g (W/kg) | | Plot No. |
| | | | | Channel | MHz | Measurement | Tune-up Limit | Measurement | Tune-up Scaled | |
| Test Mode : LTE Band 7 QPSK 20M | | | | | | | | | | |
| Left-Cheek | 0 | 1 | 50 | 20850 | 2510 | 19.35 | 20 | 0.070 | **0.081** | 22 |
| Left-Cheek | 0 | 1 | 50 | 21100 | 2535 | 19.37 | 20 | 0.053 | 0.062 | |
| Left-Cheek | 0 | 1 | 50 | 21350 | 2560 | 19.11 | 20 | 0.031 | 0.038 | |
| Left-Cheek | 0 | 50 | 0 | 21100 | 2535 | 17.65 | 19 | 0.041 | 0.056 | |
| Left-Tilt | 0 | 1 | 50 | 21100 | 2535 | 19.37 | 20 | 0.046 | 0.053 | |
| Right-Cheek | 0 | 1 | 50 | 21100 | 2535 | 19.37 | 20 | 0.024 | 0.028 | |
| Right-Tilt | 0 | 1 | 50 | 21100 | 2535 | 19.37 | 20 | 0.029 | 0.033 | |
| Note: 1. When the reported SAR of the Mid channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in other channel. | | | | | | | | | | |

| LTE Band 7 Body SAR | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SAR MEASUREMENT | | | | | | | | | | |
| Liquid Temperature (°C): 21.7 ±2 | | | | | | Relative Humidity (%): 50 | | | | |
| Ambient Temperature (°C): 22.8 ±2 | | | | | | Depth of Liquid (cm): >15 | | | | |
| Test Position | Dist (mm) | RB | RB offset | Frequency | | Conducted Power (dBm) | | SAR 1g (W/kg) | | Plot No. |
| | | | | Channel | MHz | Measurement | Tune-up Limit | Measurement | Tune-up Scaled | |
| Test Mode : LTE Band 7 QPSK 20M_10mm | | | | | | | | | | |
| Front | 10 | 1 | 50 | 21100 | 2510 | 19.37 | 20 | 0.205 | 0.237 | |
| Back | 10 | 1 | 50 | 21100 | 2535 | 19.37 | 20 | 0.621 | 0.718 | 23 |
| Left-side | 10 | 1 | 50 | 21100 | 2560 | 19.37 | 20 | 0.051 | 0.058 | |
| Right-side | 10 | 1 | 50 | 21100 | 2510 | 19.37 | 20 | 0.116 | 0.134 | |
| Bottom | 10 | 1 | 50 | 20850 | 2510 | 19.35 | 20 | 0.900 | **1.045** | 24 |
| Bottom | 10 | 1 | 50 | 21100 | 2535 | 19.37 | 20 | 0.772 | 0.893 | |
| Bottom | 10 | 1 | 50 | 21350 | 2560 | 19.11 | 20 | 0.734 | 0.901 | |
| Bottom | 10 | 50 | 0 | 20850 | 2510 | 17.57 | 19 | 0.722 | 1.004 | |
| Bottom | 10 | 50 | 0 | 21100 | 2535 | 17.65 | 19 | 0.687 | 0.937 | |
| Bottom | 10 | 50 | 0 | 21350 | 2560 | 17.59 | 19 | 0.597 | 0.826 | |
| Bottom | 10 | 100 | 0 | 21100 | 2510 | 17.60 | 19 | 0.669 | 0.923 | |
| Note: 1. When the reported SAR of the Mid channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in other channel. | | | | | | | | | | |

| LTE Band 12 Head SAR | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SAR MEASUREMENT | | | | | | | | | | |
| Liquid Temperature (°C): 22.1 ±2 | | | | | | Relative Humidity (%): 52 | | | | |
| Ambient Temperature (°C): 23.2 ±2 | | | | | | Depth of Liquid (cm): >15 | | | | |
| Test Position | Dist (mm) | RB | RB offset | Frequency | | Conducted Power (dBm) | | SAR 1g (W/kg) | | Plot No. |
| | | | | Channel | MHz | Measurement | Tune-up Limit | Measurement | Tune-up Scaled | |
| Test Mode : LTE Band 12 QPSK 10M | | | | | | | | | | |
| Left-Cheek | 0 | 1 | 25 | 23060 | 704 | 23.02 | 24.5 | 0.352 | 0.495 | |
| Left-Cheek | 0 | 1 | 25 | 23095 | 707.5 | 23.13 | 24.5 | 0.345 | 0.473 | |
| Left-Cheek | 0 | 1 | 25 | 23130 | 711 | 23.04 | 24.5 | 0.359 | **0.502** | 25 |
| Left-Cheek | 0 | 25 | 12 | 23095 | 707.5 | 22.01 | 23.5 | 0.257 | 0.362 | |
| Left-Tilt | 0 | 1 | 25 | 23095 | 707.5 | 23.13 | 24.5 | 0.173 | 0.237 | |
| Right-Cheek | 0 | 1 | 25 | 23095 | 707.5 | 23.13 | 24.5 | 0.344 | 0.472 | |
| Right-Tilt | 0 | 1 | 25 | 23095 | 707.5 | 23.13 | 24.5 | 0.163 | 0.223 | |
| Note: 1. When the reported SAR of the Mid channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in other channel.<br>2. LTE Band 17 (704-716MHz) is covered by LTE Band 12 (699-716MHz) | | | | | | | | | | |

| LTE Band 12 Body SAR | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SAR MEASUREMENT | | | | | | | | | | |
| Liquid Temperature (°C): 22.1 ±2 | | | | | | Relative Humidity (%): 52 | | | | |
| Ambient Temperature (°C): 23.2 ±2 | | | | | | Depth of Liquid (cm): >15 | | | | |
| Test Position | Dist (mm) | RB | RB offset | Frequency | | Conducted Power (dBm) | | SAR 1g (W/kg) | | Plot No. |
| | | | | Channel | MHz | Measurement | Tune-up Limit | Measurement | Tune-up Scaled | |
| Test Mode : LTE Band 12 QPSK 10M_10mm | | | | | | | | | | |
| Front | 10 | 1 | 25 | 23060 | 704 | 23.02 | 24.5 | 0.317 | 0.446 | |
| Front | 10 | 1 | 25 | 23095 | 707.5 | 23.13 | 24.5 | 0.294 | 0.403 | |
| Front | 10 | 1 | 25 | 23130 | 711 | 23.04 | 24.5 | 0.349 | **0.488** | 26 |
| Front | 10 | 25 | 12 | 23095 | 707.5 | 22.01 | 23.5 | 0.257 | 0.362 | |
| Back | 10 | 1 | 25 | 23095 | 707.5 | 23.13 | 24.5 | 0.215 | 0.295 | |
| Left-side | 10 | 1 | 25 | 23095 | 707.5 | 23.13 | 24.5 | 0.211 | 0.289 | |
| Right-side | 10 | 1 | 25 | 23095 | 707.5 | 23.13 | 24.5 | 0.262 | 0.359 | |
| Bottom | 10 | 1 | 25 | 23095 | 707.5 | 23.13 | 24.5 | 0.041 | 0.057 | |
| Note: 1. When the reported SAR of the Mid channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in other channel.<br>2. LTE Band 17 (704-716MHz) is covered by LTE Band 12 (699-716MHz) | | | | | | | | | | |

| LTE Band 13 Head SAR | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SAR MEASUREMENT | | | | | | | | | | |
| Liquid Temperature (°C): 22.1 ±2 | | | | | | Relative Humidity (%): 52 | | | | |
| Ambient Temperature (°C): 23.2 ±2 | | | | | | Depth of Liquid (cm): >15 | | | | |
| Test Position | Dist (mm) | RB | RB offset | Frequency | | Conducted Power (dBm) | | SAR 1g (W/kg) | | Plot No. |
| | | | | Channel | MHz | Measurement | Tune-up Limit | Measurement | Tune-up Scaled | |
| Test Mode : LTE Band 13 QPSK 10M | | | | | | | | | | |
| Left-Cheek | 0 | 1 | 25 | 23230 | 782 | 22.72 | 24.5 | 0.336 | **0.506** | 27 |
| Left-Cheek | 0 | 25 | 12 | 23230 | 782 | 21.82 | 23.5 | 0.240 | 0.353 | |
| Left-Tilt | 0 | 1 | 25 | 23230 | 782 | 22.72 | 24.5 | 0.172 | 0.259 | |
| Right-Cheek | 0 | 1 | 25 | 23230 | 782 | 22.72 | 24.5 | 0.323 | 0.487 | |
| Right-Tilt | 0 | 1 | 25 | 23230 | 782 | 22.72 | 24.5 | 0.156 | 0.235 | |
| Note: 1. When the reported SAR of the Mid channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in other channel. | | | | | | | | | | |

| LTE Band 13 Body SAR | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SAR MEASUREMENT | | | | | | | | | | |
| Liquid Temperature (°C): 22.1 ±2 | | | | | | Relative Humidity (%): 52 | | | | |
| Ambient Temperature (°C): 23.2 ±2 | | | | | | Depth of Liquid (cm): >15 | | | | |
| Test Position | Dist (mm) | RB | RB offset | Frequency | | Conducted Power (dBm) | | SAR 1g (W/kg) | | Plot No. |
| | | | | Channel | MHz | Measurement | Tune-up Limit | Measurement | Tune-up Scaled | |
| Test Mode : LTE Band 13 QPSK 10M_10mm | | | | | | | | | | |
| Front | 10 | 1 | 25 | 23230 | 782 | 22.72 | 24.5 | 0.331 | **0.499** | 28 |
| Front | 10 | 25 | 12 | 23230 | 782 | 21.82 | 23.5 | 0.270 | 0.398 | |
| Back | 10 | 1 | 25 | 23230 | 782 | 22.72 | 24.5 | 0.306 | 0.461 | |
| Left-side | 10 | 1 | 25 | 23230 | 782 | 22.72 | 24.5 | 0.250 | 0.377 | |
| Right-side | 10 | 1 | 25 | 23230 | 782 | 22.72 | 24.5 | 0.284 | 0.428 | |
| Bottom | 10 | 1 | 25 | 23230 | 782 | 22.72 | 24.5 | 0.032 | 0.049 | |
| Note: 1. When the reported SAR of the Mid channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in other channel. | | | | | | | | | | |

| LTE Band 25 Head SAR | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SAR MEASUREMENT | | | | | | | | | | |
| Liquid Temperature (°C): 21.7 ±2 | | | | | | Relative Humidity (%): 50 | | | | |
| Ambient Temperature (°C): 22.8 ±2 | | | | | | Depth of Liquid (cm): >15 | | | | |
| Test Position | Dist (mm) | RB | RB offset | Frequency | | Conducted Power (dBm) | | SAR 1g (W/kg) | | Plot No. |
| | | | | Channel | MHz | Measurement | Tune-up Limit | Measurement | Tune-up Scaled | |
| Test Mode : LTE Band 25 QPSK 20M | | | | | | | | | | |
| Left-Cheek | 0 | 1 | 50 | 26140 | 1860 | 22.36 | 23 | 0.356 | 0.413 | |
| Left-Cheek | 0 | 1 | 50 | 26365 | 1882.5 | 22.73 | 23 | 0.460 | 0.490 | |
| Left-Cheek | 0 | 1 | 50 | 26590 | 1905 | 22.69 | 23 | 0.522 | **0.561** | 29 |
| Left-Cheek | 0 | 50 | 25 | 26365 | 1882.5 | 21.55 | 22 | 0.363 | 0.403 | |
| Left-Tilt | 0 | 1 | 50 | 26365 | 1882.5 | 22.73 | 23 | 0.245 | 0.261 | |
| Right-Cheek | 0 | 1 | 50 | 26365 | 1882.5 | 22.73 | 23 | 0.294 | 0.313 | |
| Right-Tilt | 0 | 1 | 50 | 26365 | 1882.5 | 22.73 | 23 | 0.232 | 0.247 | |
| Note: 1. When the reported SAR of the Mid channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in other channel.<br>2. LTE Band 2 (1850-1910MHz) is covered by LTE Band 25 (1850-1915MHz) | | | | | | | | | | |

| LTE Band 25 Body SAR | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SAR MEASUREMENT | | | | | | | | | | |
| Liquid Temperature (°C): 21.7 ±2 | | | | | | Relative Humidity (%): 50 | | | | |
| Ambient Temperature (°C): 22.8 ±2 | | | | | | Depth of Liquid (cm): >15 | | | | |
| Test Position | Dist (mm) | RB | RB offset | Frequency | | Conducted Power (dBm) | | SAR 1g (W/kg) | | Plot No. |
| | | | | Channel | MHz | Measurement | Tune-up Limit | Measurement | Tune-up Scaled | |
| Test Mode : LTE Band 25 QPSK 20M_10mm | | | | | | | | | | |
| Front | 10 | 1 | 50 | 26365 | 1882.5 | 22.73 | 23 | 0.325 | 0.346 | |
| Back | 10 | 1 | 50 | 26365 | 1882.5 | 22.73 | 23 | 0.669 | 0.712 | 30 |
| Left-side | 10 | 1 | 50 | 26365 | 1882.5 | 22.73 | 23 | 0.203 | 0.216 | |
| Right-side | 10 | 1 | 50 | 26365 | 1882.5 | 22.73 | 23 | 0.055 | 0.058 | |
| Bottom | 10 | 1 | 50 | 26140 | 1860 | 22.36 | 23 | 0.728 | 0.844 | |
| Bottom | 10 | 1 | 50 | 26365 | 1882.5 | 22.73 | 23 | 0.769 | 0.818 | |
| Bottom | 10 | 1 | 50 | 26590 | 1905 | 22.69 | 23 | 0.920 | **0.988** | 31 |
| Bottom | 10 | 50 | 25 | 26365 | 1882.5 | 21.55 | 22 | 0.675 | 0.749 | |
| Bottom | 10 | 100 | 0 | 26365 | 1882.5 | 21.46 | 22 | 0.667 | 0.755 | |
| Note: 1. When the reported SAR of the Mid channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in other channel.<br>2. LTE Band 2 (1850-1910MHz) is covered by LTE Band 25 (1850-1915MHz) | | | | | | | | | | |

| LTE Band 26 Head SAR | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SAR MEASUREMENT | | | | | | | | | | |
| Liquid Temperature (°C): 22.1 ±2 | | | | | | Relative Humidity (%): 52 | | | | |
| Ambient Temperature (°C): 23.2 ±2 | | | | | | Depth of Liquid (cm): >15 | | | | |
| Test Position | Dist (mm) | RB | RB offset | Frequency | | Conducted Power (dBm) | | SAR 1g (W/kg) | | Plot No. |
| | | | | Channel | MHz | Measurement | Tune-up Limit | Measurement | Tune-up Scaled | |
| Test Mode : LTE Band 26 QPSK 15M | | | | | | | | | | |
| Left-Cheek | 0 | 1 | 36 | 26865 | 831.5 | 23.79 | 24 | 0.362 | 0.380 | |
| Left-Cheek | 0 | 1 | 36 | 26915 | 836.5 | 23.91 | 24 | 0.411 | **0.420** | 32 |
| Left-Cheek | 0 | 1 | 36 | 26965 | 841.5 | 23.45 | 24 | 0.366 | 0.415 | |
| Left-Cheek | 0 | 36 | 18 | 26915 | 836.5 | 22.68 | 23 | 0.314 | 0.338 | |
| Left-Tilt | 0 | 1 | 36 | 26915 | 836.5 | 23.91 | 24 | 0.222 | 0.227 | |
| Right-Cheek | 0 | 1 | 36 | 26915 | 836.5 | 23.91 | 24 | 0.408 | 0.417 | |
| Right-Tilt | 0 | 1 | 36 | 26915 | 836.5 | 23.91 | 24 | 0.213 | 0.217 | |
| Note: 1. When the reported SAR of the Mid channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in other channel.<br>2. LTE Band 5 (824-849MHz) is covered by LTE Band 26 (814-849MHz) | | | | | | | | | | |

| LTE Band 26 Body SAR | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SAR MEASUREMENT | | | | | | | | | | |
| Liquid Temperature (°C): 22.1 ±2 | | | | | | Relative Humidity (%): 52 | | | | |
| Ambient Temperature (°C): 23.2 ±2 | | | | | | Depth of Liquid (cm): >15 | | | | |
| Test Position | Dist (mm) | RB | RB offset | Frequency | | Conducted Power (dBm) | | SAR 1g (W/kg) | | Plot No. |
| | | | | Channel | MHz | Measurement | Tune-up Limit | Measurement | Tune-up Scaled | |
| Test Mode : LTE Band 26 QPSK 15M_10mm | | | | | | | | | | |
| Front | 10 | 1 | 36 | 26865 | 831.5 | 23.79 | 24 | 0.316 | 0.332 | |
| Front | 10 | 1 | 36 | 26915 | 836.5 | 23.91 | 24 | 0.355 | **0.362** | 33 |
| Front | 10 | 1 | 36 | 26965 | 841.5 | 23.45 | 24 | 0.307 | 0.348 | |
| Front | 10 | 36 | 18 | 26915 | 836.5 | 22.68 | 23 | 0.277 | 0.298 | |
| Back | 10 | 1 | 36 | 26915 | 836.5 | 23.91 | 24 | 0.281 | 0.287 | |
| Left-side | 10 | 1 | 36 | 26915 | 836.5 | 23.91 | 24 | 0.235 | 0.240 | |
| Right-side | 10 | 1 | 36 | 26915 | 836.5 | 23.91 | 24 | 0.249 | 0.254 | |
| Bottom | 10 | 1 | 36 | 26915 | 836.5 | 23.91 | 24 | 0.068 | 0.069 | |
| Note: 1. When the reported SAR of the Mid channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in other channel.<br>2. LTE Band 5 (824-849MHz) is covered by LTE Band 26 (814-849MHz) | | | | | | | | | | |

| LTE Band 41 Head SAR | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SAR MEASUREMENT | | | | | | | | | | |
| Liquid Temperature (°C): 21.7 ±2 | | | | | | | Relative Humidity (%): 50 | | | |
| Ambient Temperature (°C): 22.8 ±2 | | | | | | | Depth of Liquid (cm): >15 | | | |
| Test Position | Dist (mm) | RB | RB offset | Frequency | | Conducted Power (dBm) | | SAR 1g (W/kg) | | Plot No. |
| | | | | Channel | MHz | Measurement | Tune-up Limit | Measurement | Tune-up Scaled | |
| Test Mode : LTE Band 41 QPSK 20M | | | | | | | | | | |
| Left-Cheek | 0 | 1 | 50 | 40240 | 2555 | 22.34 | 23 | 0.010 | 0.012 | |
| Left-Cheek | 0 | 1 | 50 | 40620 | 2593 | 22.60 | 23 | 0.017 | **0.019** | 34 |
| Left-Cheek | 0 | 1 | 50 | 41140 | 2645 | 22.07 | 23 | 0.011 | 0.014 | |
| Left-Cheek | 0 | 50 | 25 | 40620 | 2593 | 21.54 | 22 | 0.011 | 0.012 | |
| Left-Tilt | 0 | 1 | 50 | 40620 | 2593 | 22.60 | 23 | 0.012 | 0.013 | |
| Right-Cheek | 0 | 1 | 50 | 40620 | 2593 | 22.60 | 23 | 0.00634 | 0.007 | |
| Right-Tilt | 0 | 1 | 50 | 40620 | 2593 | 22.60 | 23 | 0.00647 | 0.007 | |
| Note: 1. When the reported SAR of the Mid channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in other channel.<br>2. LTE Band 38 (2570-2620 MHz) is covered by LTE Band 41 (2496-2690MHz) | | | | | | | | | | |

| LTE Band 41 Body SAR | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SAR MEASUREMENT | | | | | | | | | | |
| Liquid Temperature (°C): 21.7 ±2 | | | | | | | Relative Humidity (%): 50 | | | |
| Ambient Temperature (°C): 22.8 ±2 | | | | | | | Depth of Liquid (cm): >15 | | | |
| Test Position | Dist (mm) | RB | RB offset | Frequency | | Conducted Power (dBm) | | SAR 1g (W/kg) | | Plot No. |
| | | | | Channel | MHz | Measurement | Tune-up Limit | Measurement | Tune-up Scaled | |
| Test Mode : LTE Band 41 QPSK 20M_10mm | | | | | | | | | | |
| Front | 10 | 1 | 50 | 40620 | 2593 | 22.60 | 23 | 0.166 | 0.182 | |
| Back | 10 | 1 | 50 | 40240 | 2555 | 22.34 | 23 | 0.656 | **0.764** | 35 |
| Back | 10 | 1 | 50 | 40620 | 2593 | 22.60 | 23 | 0.671 | 0.736 | |
| Back | 10 | 1 | 50 | 41140 | 2645 | 22.07 | 23 | 0.450 | 0.557 | |
| Back | 10 | 50 | 25 | 40620 | 2593 | 21.54 | 22 | 0.454 | 0.505 | |
| Left-side | 10 | 1 | 50 | 40620 | 2593 | 22.60 | 23 | 0.041 | 0.045 | |
| Right-side | 10 | 1 | 50 | 40620 | 2593 | 22.60 | 23 | 0.082 | 0.090 | |
| Bottom | 10 | 1 | 50 | 40620 | 2593 | 22.60 | 23 | 0.517 | 0.567 | |
| Note: 1. When the reported SAR of the Mid channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in other channel.<br>2. LTE Band 38 (2570-2620 MHz) is covered by LTE Band 41 (2496-2690MHz) | | | | | | | | | | |

| LTE Band 66 Head SAR | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SAR MEASUREMENT | | | | | | | | | | |
| Liquid Temperature (°C): 22.2 ±2 | | | | | | Relative Humidity (%): 51 | | | | |
| Ambient Temperature (°C): 23.1 ±2 | | | | | | Depth of Liquid (cm): >15 | | | | |
| Test Position Head | Dist (mm) | RB | RB offset | Frequency | | Conducted Power (dBm) | | SAR 1g (W/kg) | | Plot No. |
| | | | | Channel | MHz | Measurement | Tune-up Limit | Measurement | Tune-up Scaled | |
| Test Mode : LTE Band 66 QPSK 20M | | | | | | | | | | |
| Left-Cheek | 0 | 1 | 50 | 132072 | 1720 | 17.94 | 19 | 0.132 | 0.168 | |
| Left-Cheek | 0 | 1 | 50 | 132322 | 1745 | 18.01 | 19 | 0.139 | 0.175 | |
| Left-Cheek | 0 | 1 | 50 | 132572 | 1770 | 17.96 | 19 | 0.144 | **0.183** | 36 |
| Left-Cheek | 0 | 50 | 0 | 132322 | 1745 | 16.89 | 18 | 0.116 | 0.150 | |
| Left-Tilt | 0 | 1 | 50 | 132322 | 1745 | 18.01 | 19 | 0.068 | 0.086 | |
| Right-Cheek | 0 | 1 | 50 | 132322 | 1745 | 18.01 | 19 | 0.100 | 0.126 | |
| Right-Tilt | 0 | 1 | 50 | 132322 | 1745 | 18.01 | 19 | 0.104 | 0.131 | |
| Note: 1. When the reported SAR of the Mid channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in other channel.<br>2. LTE Band 4 (1710-1755 MHz) is covered by LTE Band 66 (1710-1780 MHz) | | | | | | | | | | |

| LTE Band 66 Hotspot & Body-worn SAR | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SAR MEASUREMENT | | | | | | | | | | |
| Liquid Temperature (°C): 22.2 ±2 | | | | | | Relative Humidity (%): 51 | | | | |
| Ambient Temperature (°C): 23.1 ±2 | | | | | | Depth of Liquid (cm): >15 | | | | |
| Test Position Body | Dist (mm) | RB | RB offset | Frequency | | Conducted Power (dBm) | | SAR 1g (W/kg) | | Plot No. |
| | | | | Channel | MHz | Measurement | Tune-up Limit | Measurement | Tune-up Scaled | |
| Test Mode : LTE Band 66 QPSK 20M_10mm | | | | | | | | | | |
| Front | 10 | 1 | 50 | 132322 | 1745 | 18.01 | 19 | 0.176 | 0.221 | |
| Back | 10 | 1 | 50 | 132322 | 1745 | 18.01 | 19 | 0.536 | 0.673 | 37 |
| Left-side | 10 | 1 | 50 | 132322 | 1745 | 18.01 | 19 | 0.068 | 0.085 | |
| Right-side | 10 | 1 | 50 | 132322 | 1745 | 18.01 | 19 | 0.033 | 0.042 | |
| Bottom | 10 | 1 | 50 | 132072 | 1720 | 17.94 | 19 | 0.734 | **0.937** | 38 |
| Bottom | 10 | 1 | 50 | 132322 | 1745 | 18.01 | 19 | 0.578 | 0.726 | |
| Bottom | 10 | 1 | 50 | 132572 | 1770 | 17.96 | 19 | 0.454 | 0.577 | |
| Bottom | 10 | 50 | 0 | 132322 | 1745 | 16.89 | 18 | 0.560 | 0.723 | |
| Bottom | 10 | 100 | 0 | 132322 | 1745 | 16.80 | 18 | 0.464 | 0.612 | |
| Note: 1. When the reported SAR of the Mid channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in other channel.<br>2. LTE Band 4 (1710-1755 MHz) is covered by LTE Band 66 (1710-1780 MHz) | | | | | | | | | | |

## 9.2 Simultaneous Transmission

| Simultaneous Transmission Configurations | |
|---|---|
| 1 | WWAN + WLAN 2.4GHz + BT |
| 2 | WWAN + WLAN 5GHz + BT |

**Worst Case SAR_Head Exposure Conditions**

| WWAN BAND | Left-Cheek | Left-Tilt | Right-Cheek | Right-Tilt |
|---|---|---|---|---|
| GSM850 | 0.676 | **0.531** | **0.900** | **0.561** |
| PCS1900 | **0.719** | 0.356 | 0.542 | 0.310 |
| WCDMA B2 | 0.640 | 0.327 | 0.368 | 0.288 |
| WCDMA B4 | 0.240 | 0.106 | 0.104 | 0.149 |
| WCDMA B5 | 0.436 | 0.251 | 0.492 | 0.207 |
| LTE Band 7 | 0.081 | 0.053 | 0.028 | 0.033 |
| LTE Band 12(17) | 0.502 | 0.237 | 0.472 | 0.223 |
| LTE Band 13 | 0.506 | 0.259 | 0.487 | 0.235 |
| LTE Band 25(2) | 0.561 | 0.261 | 0.313 | 0.247 |
| LTE Band 26(5) | 0.420 | 0.227 | 0.417 | 0.217 |
| LTE Band 41(38) | 0.019 | 0.013 | 0.007 | 0.007 |
| LTE Band 66(4) | 0.183 | 0.086 | 0.126 | 0.131 |
| WLAN BAND | Left-Cheek | Left-Tilt | Right-Cheek | Right-Tilt |
| WLAN 2.4G | 0.833 | 0.499 | 0.348 | 0.244 |
| WLAN 5G | 1.087 | 0.977 | 0.744 | 0.870 |
| BT | 0.052 | 0.027 | 0.033 | 0.012 |

**Worst Case SAR_Hotspot & Body-worn Exposure Conditions**

| WWAN Band | Front | Back | Left-side | Right-side | Top | Bottom |
|---|---|---|---|---|---|---|
| GSM850 | **0.919** | 0.682 | **0.525** | **0.519** | -- | 0.124 |
| PCS1900 | 0.458 | **1.156** | 0.325 | 0.105 | -- | 1.123 |
| WCDMA B2 | 0.426 | 0.813 | 0.270 | 0.091 | -- | **1.199** |
| WCDMA B4 | 0.277 | 1.097 | 0.093 | 0.042 | -- | 1.178 |
| WCDMA B5 | 0.390 | 0.373 | 0.214 | 0.231 | -- | 0.067 |
| LTE Band 7 | 0.237 | 0.718 | 0.058 | 0.134 | -- | 1.045 |
| LTE Band 12(17) | 0.488 | 0.295 | 0.289 | 0.359 | -- | 0.057 |
| LTE Band 13 | 0.499 | 0.461 | 0.377 | 0.428 | -- | 0.049 |
| LTE Band 25(2) | 0.346 | 0.712 | 0.216 | 0.058 | -- | 0.988 |
| LTE Band 26(5) | 0.362 | 0.287 | 0.240 | 0.254 | -- | 0.069 |
| LTE Band 41(38) | 0.182 | 0.764 | 0.045 | 0.090 | -- | 0.567 |
| LTE Band 66(4) | 0.221 | 0.673 | 0.085 | 0.042 | -- | 0.937 |
| WLAN Band | Front | Back | Left-side | Right-side | Top | Bottom |
| WLAN 2.4G | 0.104 | 0.211 | -- | 0.122 | 0.116 | -- |
| WLAN 5G | 0.269 | 0.338 | -- | 0.108 | 0.272 | -- |
| BT | 0.012 | 0.015 | -- | 0.008 | 0.007 | -- |

**Worst Case SAR_ Product Specific 10g (Extremity) Exposure Conditions**

| WLAN Band | Front | Back | Left-side | Right-side | Top | Bottom |
|---|---|---|---|---|---|---|
| WLAN 2.4G | 0.510 | 0.535 | -- | 0.293 | 0.246 | -- |
| WLAN 5G | 0.333 | 0.400 | -- | 0.114 | 0.682 | -- |
| BT | 0.054 | 0.057 | -- | 0.031 | 0.020 | -- |

## 9.2.1 Simultaneous transmission of Wi-Fi and other wireless technologies

**Head Exposure Conditions**

**Simultaneous Transmission Summation Scenario**

| Test Position | Worst Case WWAN Band | 1 | 2 | 3 | 4 | 1+2+4 | 1+3+4 |
|---|---|---|---|---|---|---|---|
| | | WWAN (W/kg) | DTS (W/kg) | UNII (W/kg) | BT (W/kg) | **Σ 1-g SAR** | **Σ 1-g SAR** |
| Left-Cheek | PCS1900 | 0.719 | 0.833 | 1.087 | 0.052 | **1.604** | **1.858** |
| Left-Tilt | GSM850 | 0.531 | 0.499 | 0.977 | 0.027 | 1.057 | 1.535 |
| Right-Cheek | GSM850 | 0.900 | 0.348 | 0.744 | 0.033 | 1.281 | **1.677** |
| Right-Tilt | GSM850 | 0.561 | 0.244 | 0.870 | 0.012 | 0.817 | 1.443 |

Note: The sum of value is less than 1.6 W/kg, thus simultaneous SAR testing is not needed.

| Test Position | Configurations | Simultaneous Transmission (W/kg) | Antenna pair in mm | Peak location separation ratio |
|---|---|---|---|---|
| Left-Cheek | 1+2+4 | 1.604 | 73.55 | 0.028 |
| Left-Cheek | 1+3+4 | 1.858 | 77.71 | 0.033 |
| Right-Cheek | 1+3+4 | 1.677 | 60.67 | 0.036 |

Note: The ratio of value is less than 0.04, thus simultaneous SAR testing is not needed.

**Hotspot & Body-worn Exposure Conditions**

**Simultaneous Transmission Summation Scenario**

| Test Position | Worst Case WWAN Band | 1 | 2 | 3 | 4 | 1+2+4 | 1+3+4 |
|---|---|---|---|---|---|---|---|
| | | WWAN (W/kg) | DTS (W/kg) | UNII (W/kg) | BT (W/kg) | **Σ 1-g SAR** | **Σ 1-g SAR** |
| Front | GSM850 | 0.919 | 0.104 | 0.269 | 0.012 | 1.035 | 1.200 |
| Back | PCS1900 | 1.156 | 0.211 | 0.338 | 0.015 | 1.382 | 1.509 |
| Left-side | GSM850 | 0.525 | -- | -- | -- | 0.525 | 0.525 |
| Right-side | GSM 850 | 0.519 | 0.122 | 0.108 | 0.008 | 0.649 | 0.635 |
| Top | -- | -- | 0.116 | 0.272 | 0.007 | 0.123 | 0.279 |
| Bottom | WCDMA B2 | 1.199 | -- | -- | -- | 1.199 | 1.199 |

Note: The sum of value is less than 1.6 W/kg, thus simultaneous SAR testing is not needed.

**Product Specific 10g (Extremity) Exposure Conditions**

**Simultaneous Transmission Summation Scenario**

| Test Position | 1 | 2 | 3 | 1+3 | 2+3 |
|---|---|---|---|---|---|
| | DTS (W/kg) | UNII (W/kg) | BT (W/kg) | **Σ 10-g SAR** | **Σ 10-g SAR** |
| Front | 0.510 | 0.333 | 0.054 | 0.564 | 0.387 |
| Back | 0.535 | 0.400 | 0.057 | 0.592 | 0.457 |
| Right-side | 0.293 | 0.114 | 0.031 | 0.324 | 0.145 |
| Top | 0.246 | 0.682 | 0.020 | 0.266 | 0.702 |

Note: The sum of value is less than 4 W/kg, thus simultaneous SAR testing is not needed.

## 10. SAR measurement variability

1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

| Frequency | | | | **SAR** 1g (W/kg) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Mode | Band | Channel | MHz | Original | First Repeated | | Second Repeated | | Third Repeated | |
| | | | | | Value | Ratio | Value | Ratio | Value | Ratio |
| WLAN | 2.4G | 1 | 2412 | 0.810 | 0.778 | 1.041 | N/A | N/A | N/A | N/A |
| WLAN | 5G | 138 | 5690 | 1.070 | 1.040 | 1.029 | N/A | N/A | N/A | N/A |
| GSM | 850 | 128 | 824.2 | 0.836 | 0.832 | 1.005 | N/A | N/A | N/A | N/A |
| PCS | 1900 | 10 | 512 | 1.000 | 0.973 | 1.028 | N/A | N/A | N/A | N/A |
| WCDMA | B2 | 9400 | 1880 | 0.879 | 0.806 | 1.091 | N/A | N/A | N/A | N/A |
| WCDMA | B4 | 1312 | 1712.4 | 1.060 | 1.020 | 1.039 | N/A | N/A | N/A | N/A |
| LTE | B7 | 20850 | 2510 | 0.900 | 0.865 | 1.040 | N/A | N/A | N/A | N/A |
| LTE | B25 | 26590 | 1905 | 0.920 | 0.892 | 1.031 | N/A | N/A | N/A | N/A |

## Appendix

**Appendix A. SAR System Check Data**

**Appendix B. SAR measurement Data**

**Appendix C. Test Setup Photographs**

**Appendix D. Probe Calibration Data**

**Appendix E. Dipole Calibration Data**

**Appendix F. Product Photos-Please refer to the file: 22A0299R-Product Photos**

## Appendix A. SAR System Check Data

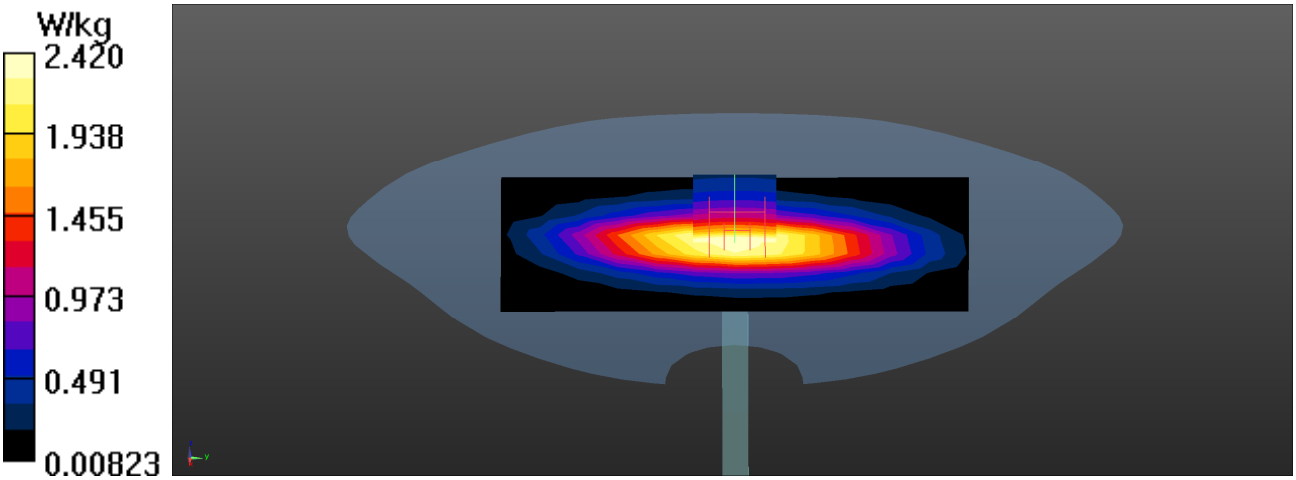
Test Laboratory: DEKRA Date: 2022/12/18

**System Performance Check_750MHz-Head**
**DUT: Dipole 750 MHz; Type: D750V3**
Communication System: UID 0, CW; Frequency: 750 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 750 MHz; $\sigma$ = 0.88 S/m; $\varepsilon_r$ = 41.86; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Ambient Temperature (°C) : 23.2, Liquid Temperature (°C) : 22.1
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(10.47, 10.47, 10.47); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

**Configuration/750MHz-Head/Area Scan (8x13x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.42 W/kg

**Configuration/750MHz-Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 58.57 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 3.05 W/kg
**SAR(1 g) = 2.04 W/kg; SAR(10 g) = 1.33 W/kg**
Maximum value of SAR (measured) = 2.76 W/kg



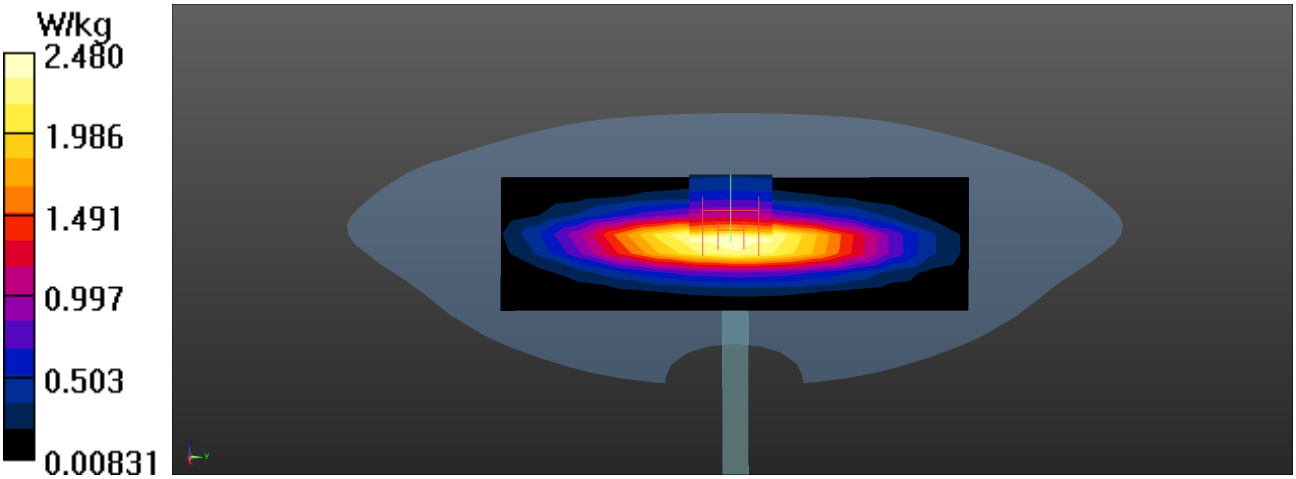
Test Laboratory: DEKRA Date: 2022/12/27

**System Performance Check_750MHz-Head**
**DUT: Dipole 750 MHz; Type: D750V3**
Communication System: UID 0, CW; Frequency: 750 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 750 MHz; $\sigma$ = 0.87 S/m; $\varepsilon_r$ = 41.88; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Ambient Temperature (°C) : 23.1, Liquid Temperature (°C) : 22.2
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(10.47, 10.47, 10.47); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

**Configuration/750MHz-Head/Area Scan (8x13x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.48 W/kg

**Configuration/750MHz-Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 59.08 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 3.21 W/kg
**SAR(1 g) = 2.09 W/kg; SAR(10 g) = 1.29 W/kg**
Maximum value of SAR (measured) = 2.83 W/kg



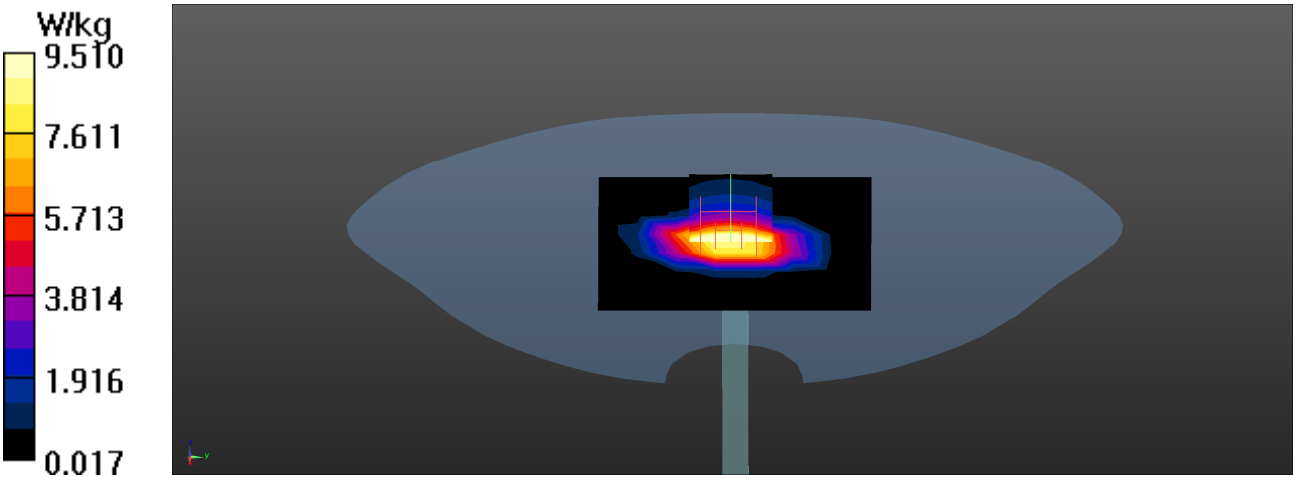
Test Laboratory: DEKRA Date: 2022/12/27

**System Performance Check_1750MHz-Head**
**DUT: Dipole 1750 MHz; Type: D1750V2**
Communication System: UID 0, CW; Frequency: 1750 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 1750 MHz; $\sigma$ = 1.37 S/m; $\varepsilon_r$ = 39.59; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Ambient Temperature (°C) : 23.1, Liquid Temperature (°C) : 22.2
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.34, 8.34, 8.34); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

**Configuration/1750MHz-Head/Area Scan (8x8x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 9.51 W/kg

**Configuration/1750MHz-Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 102.0 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 16.5 W/kg
**SAR(1 g) = 8.69 W/kg; SAR(10 g) = 4.57 W/kg**
Maximum value of SAR (measured) = 13.7 W/kg



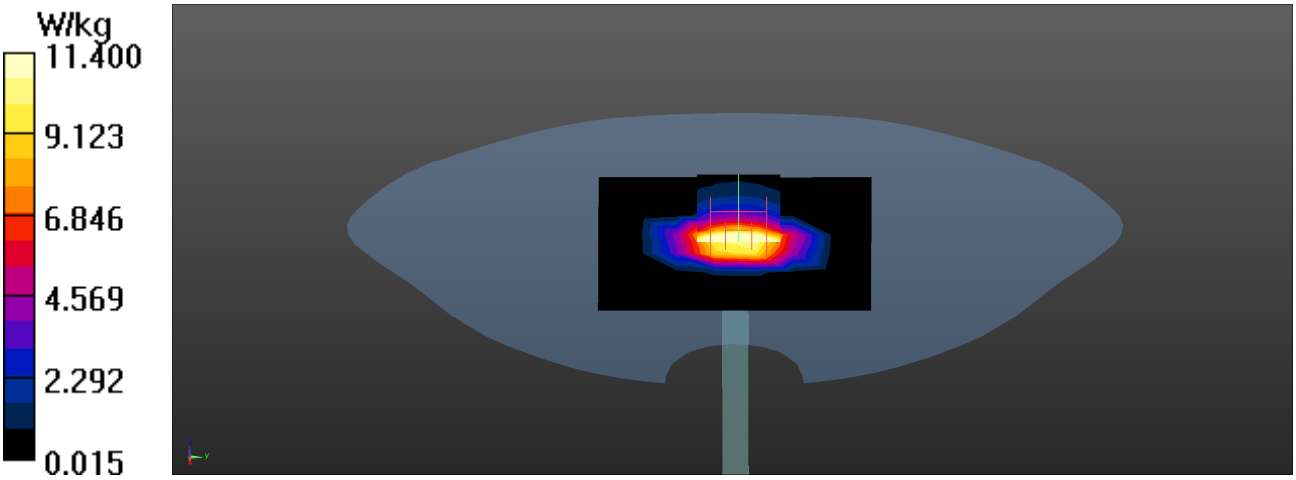
Test Laboratory: DEKRA Date: 2022/12/17

**System Performance Check_1950MHz-Head**
**DUT: Dipole 1950 MHz; Type: D1950V3**
Communication System: UID 0, CW ; Frequency: 1950 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 1950 MHz; $\sigma$ = 1.39 S/m; $\varepsilon_r$ = 39.54; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Ambient Temperature (°C) : 22.8, Liquid Temperature (°C) : 21.7
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.12, 8.12, 8.12); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

**Configuration/1950MHz-Head/Area Scan (8x8x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 11.4 W/kg

**Configuration/1950MHz-Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 115.4 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 20.7 W/kg
**SAR(1 g) = 10.5 W/kg; SAR(10 g) = 5.44 W/kg**
Maximum value of SAR (measured) = 17.3 W/kg



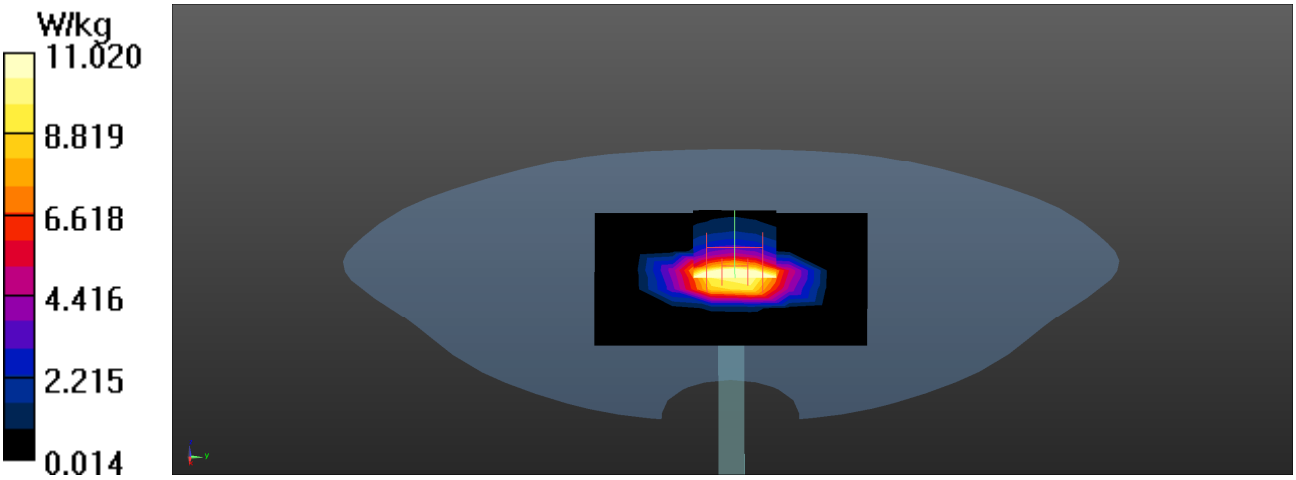
Test Laboratory: DEKRA Date: 2022/12/27

**System Performance Check_1950MHz-Head**
**DUT: Dipole 1950 MHz; Type: D1950V3**
Communication System: UID 0, CW ; Frequency: 1950 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 1950 MHz; $\sigma$ = 1.42 S/m; $\varepsilon_r$ = 38.81; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Ambient Temperature (°C) : 23.1, Liquid Temperature (°C) : 22.2
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.12, 8.12, 8.12); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

**Configuration/1950MHz-Head/Area Scan (8x8x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 11.0 W/kg

**Configuration/1950MHz-Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 114.2 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 19.5 W/kg
**SAR(1 g) = 10.1 W/kg; SAR(10 g) = 5.31 W/kg**
Maximum value of SAR (measured) = 16.9 W/kg



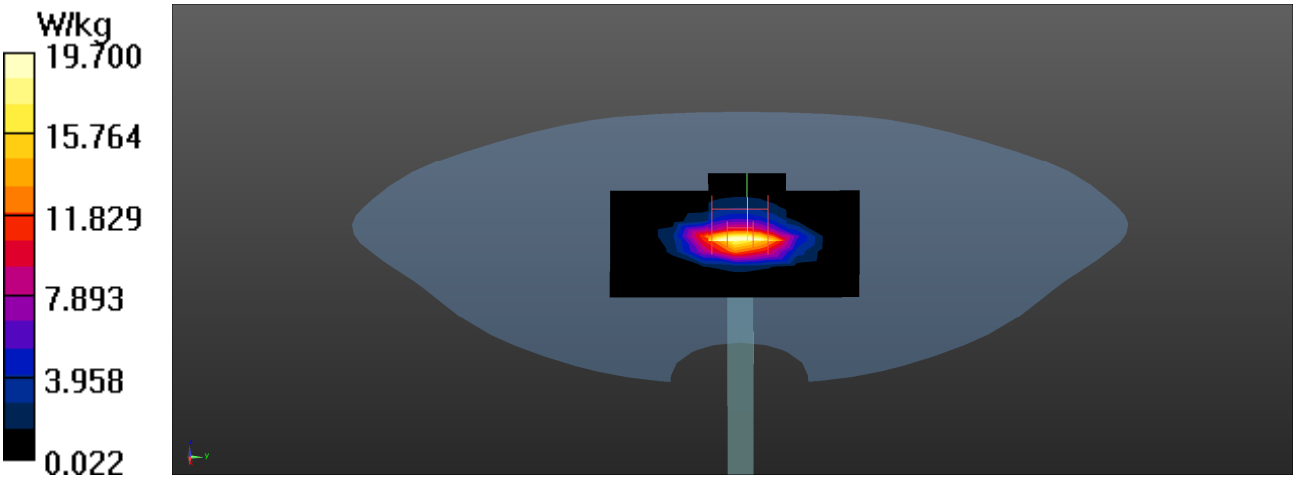
Test Laboratory: DEKRA Date: 2022/12/12

**System Performance Check_2450MHz-Head**
**DUT: Dipole 2450 MHz; Type: D2450V2**
Communication System: UID 0, CW; Frequency: 2450 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 2450 MHz; $\sigma$ = 1.79 S/m; $\varepsilon_r$ = 39.98; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Ambient Temperature (°C) : 22.7, Liquid Temperature (°C) : 21.9
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(7.58, 7.58, 7.58); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

**Configuration/2450MHz-Head/Area Scan (8x9x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 19.7 W/kg

**Configuration/2450MHz-Head/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 115.8 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 26.2 W/kg
**SAR(1 g) = 13.3 W/kg; SAR(10 g) = 6.08 W/kg**
Maximum value of SAR (measured) = 22.5 W/kg



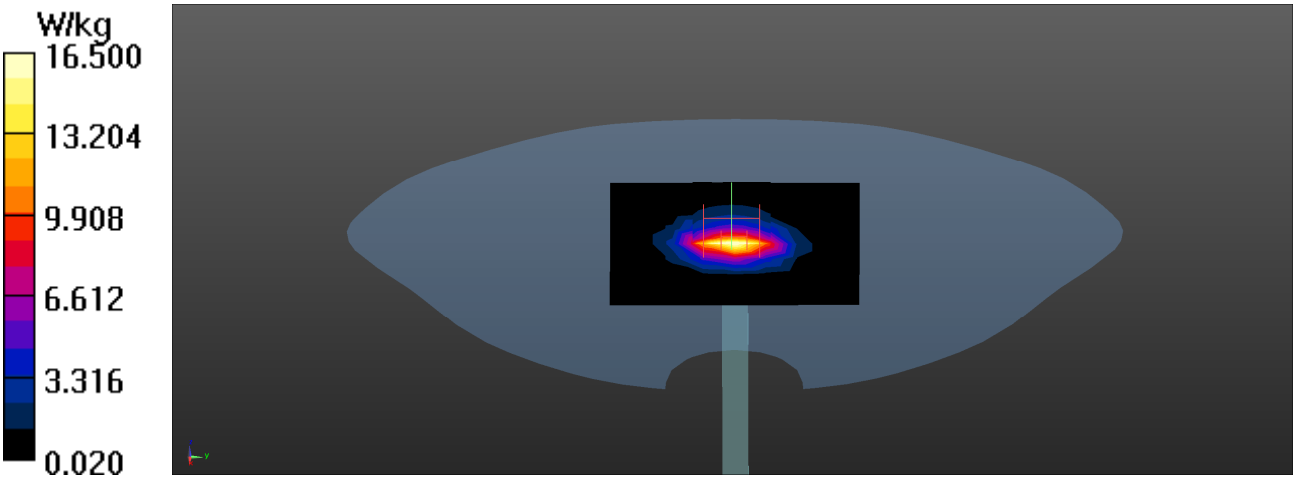
Test Laboratory: DEKRA Date: 2022/12/17

**System Performance Check_2600MHz-Head**
**DUT: Dipole_2600MHz; Type: ALS-D-2600-S-2**
Communication System: UID 0, CW; Frequency: 2600 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 2600 MHz; $\sigma$ = 1.95 S/m; $\varepsilon_r$ = 38.01; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Ambient Temperature (°C) : 22.8, Liquid Temperature (°C) : 21.7
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(7.38, 7.38, 7.38); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

**Configuration/2600MHz-Head/Area Scan (9x9x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 16.5 W/kg

**Configuration/2600MHz-Head/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 120.2 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 30.7 W/kg
**SAR(1 g) = 14.6 W/kg; SAR(10 g) = 6.48 W/kg**
Maximum value of SAR (measured) = 25.9 W/kg



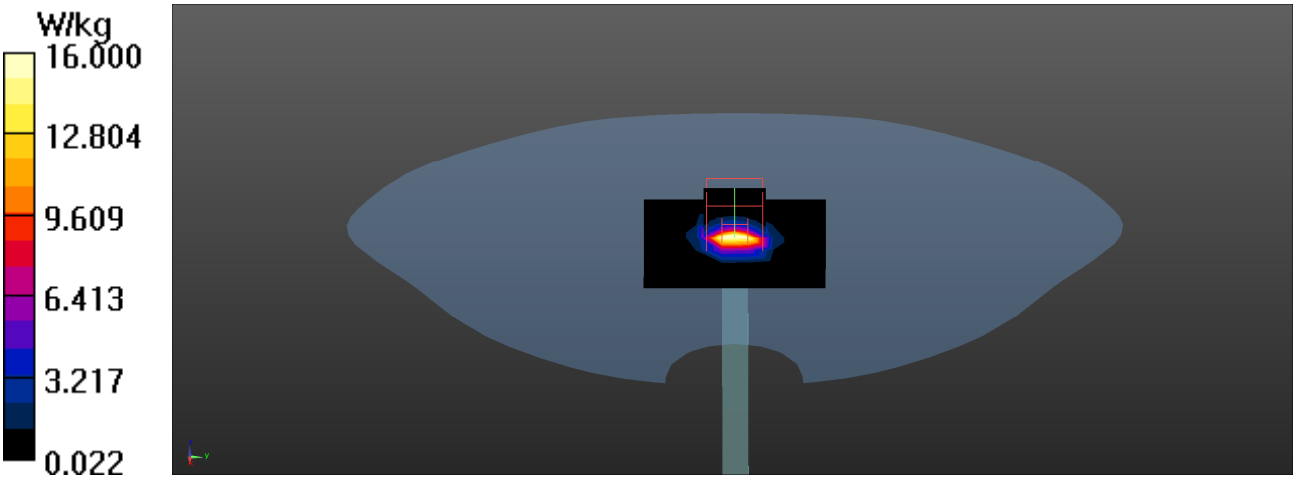
Test Laboratory: DEKRA Date: 2022/12/10

**System Performance Check_5250MHz-Head**
**DUT: Dipole 5GHz; Type: D5GHzV2**
Communication System: UID 0, CW; Frequency: 5250 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 5250 MHz; $\sigma$ = 4.58 S/m; $\varepsilon_r$ = 35.96; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Ambient Temperature (°C) : 22.8, Liquid Temperature (°C) : 21.8
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.8, 4.8, 4.8); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

**Configuration/5250MHz-Head/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 16.0 W/kg

**Configuration/5250MHz-Head/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 63.30 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 30.9 W/kg
**SAR(1 g) = 8.42 W/kg; SAR(10 g) = 2.39 W/kg**
Maximum value of SAR (measured) = 21.6 W/kg



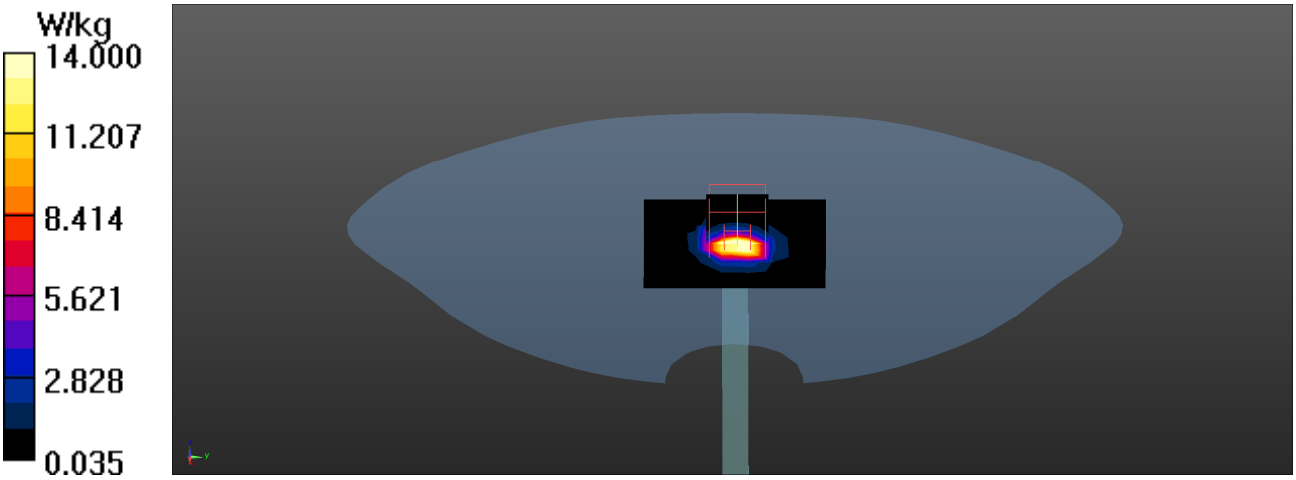
Test Laboratory: DEKRA Date: 2022/12/10

**System Performance Check_5600MHz-Head**
**DUT: Dipole 5GHz; Type: D5GHzV2**
Communication System: UID 0, CW; Frequency: 5600 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 5600 MHz; $\sigma$ = 5.06 S/m; $\varepsilon_r$ = 34.99; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Ambient Temperature (°C) : 22.8, Liquid Temperature (°C) : 21.8
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.42, 4.42, 4.42); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

**Configuration/5600MHz-Head/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 14.0 W/kg

**Configuration/5600MHz-Head/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 74.44 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 34.4 W/kg
**SAR(1 g) = 8.98 W/kg; SAR(10 g) = 2.53 W/kg**
Maximum value of SAR (measured) = 23.5 W/kg



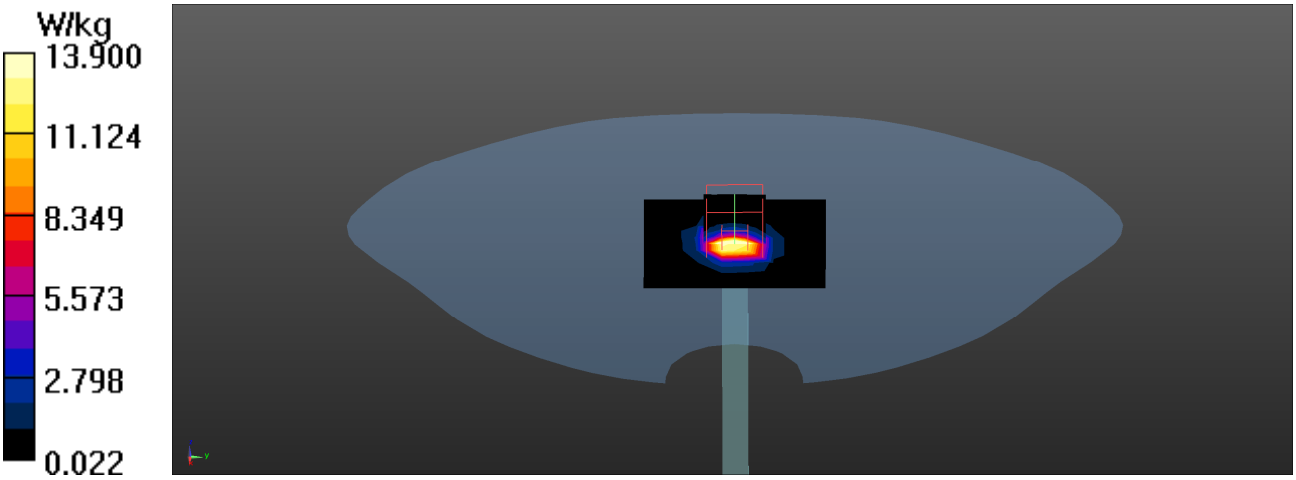
Test Laboratory: DEKRA Date: 2022/12/10

**System Performance Check_5800MHz-Head**
**DUT: Dipole 5GHz; Type: D5GHzV2**
Communication System: UID 0, CW; Frequency: 5800 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 5800 MHz; $\sigma$ = 5.32 S/m; $\varepsilon_r$ = 34.44; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Ambient Temperature (°C) : 22.8, Liquid Temperature (°C) : 21.8
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.4, 4.4, 4.4); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

**Configuration/5800MHz-Head/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 13.9 W/kg

**Configuration/5800MHz-Head/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 72.65 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 36.4 W/kg
**SAR(1 g) = 8.68 W/kg; SAR(10 g) = 2.45 W/kg**
Maximum value of SAR (measured) = 23.4 W/kg



## Appendix B. SAR measurement Data

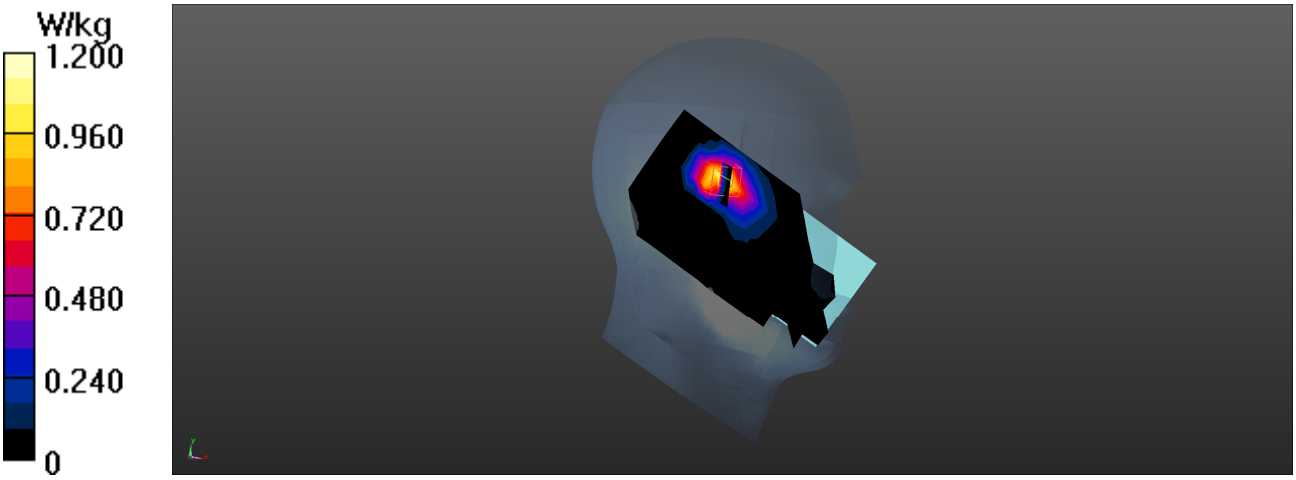
Test Laboratory: DEKRA Date: 2022/12/12

**01_802.11b_1_Left-Cheek Main**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, WLAN 2.4G; Frequency: 2412 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 2412 MHz; $\sigma$ = 1.74 S/m; $\varepsilon_r$ = 40.13; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Ambient Temperature (°C) : 22.7, Liquid Temperature (°C) : 21.9
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(7.58, 7.58, 7.58); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

**Configuration/Head/Area Scan (9x18x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.20 W/kg

**Configuration/Head/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 26.41 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 1.58 W/kg
**SAR(1 g) = 0.810 W/kg; SAR(10 g) = 0.393 W/kg**
Maximum value of SAR (measured) = 1.25 W/kg



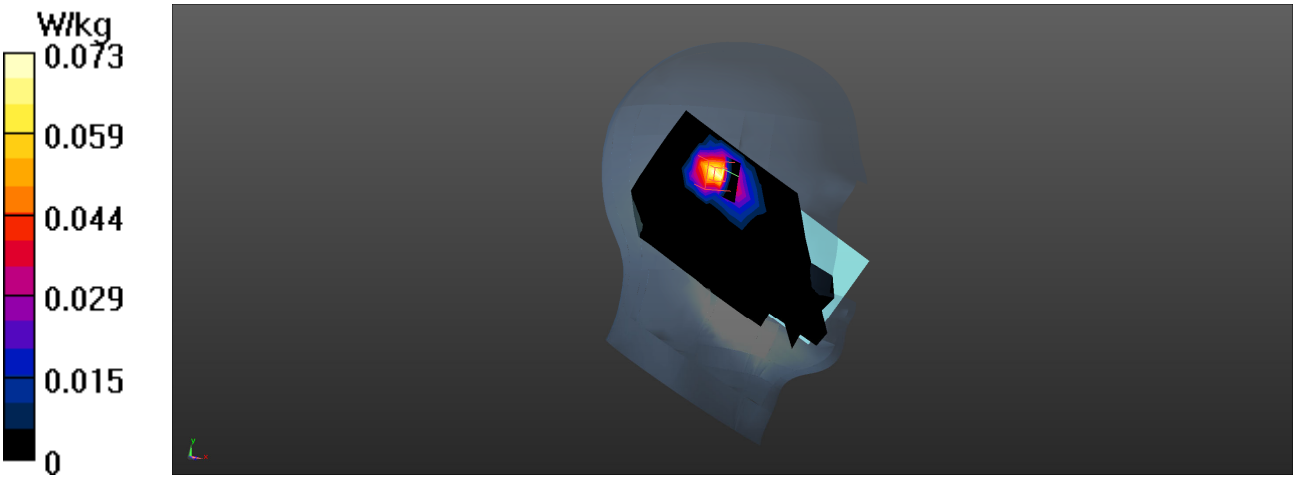
Test Laboratory: DEKRA Date: 2022/12/12

**02_BT-1M_0_Left-Check Main**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, BT 1M&3M&BLE; Frequency: 2402 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 2402 MHz; $\sigma$ = 1.73 S/m; $\varepsilon_r$ = 40.16; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Ambient Temperature (°C) : 22.7, Liquid Temperature (°C) : 21.9
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(7.58, 7.58, 7.58); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

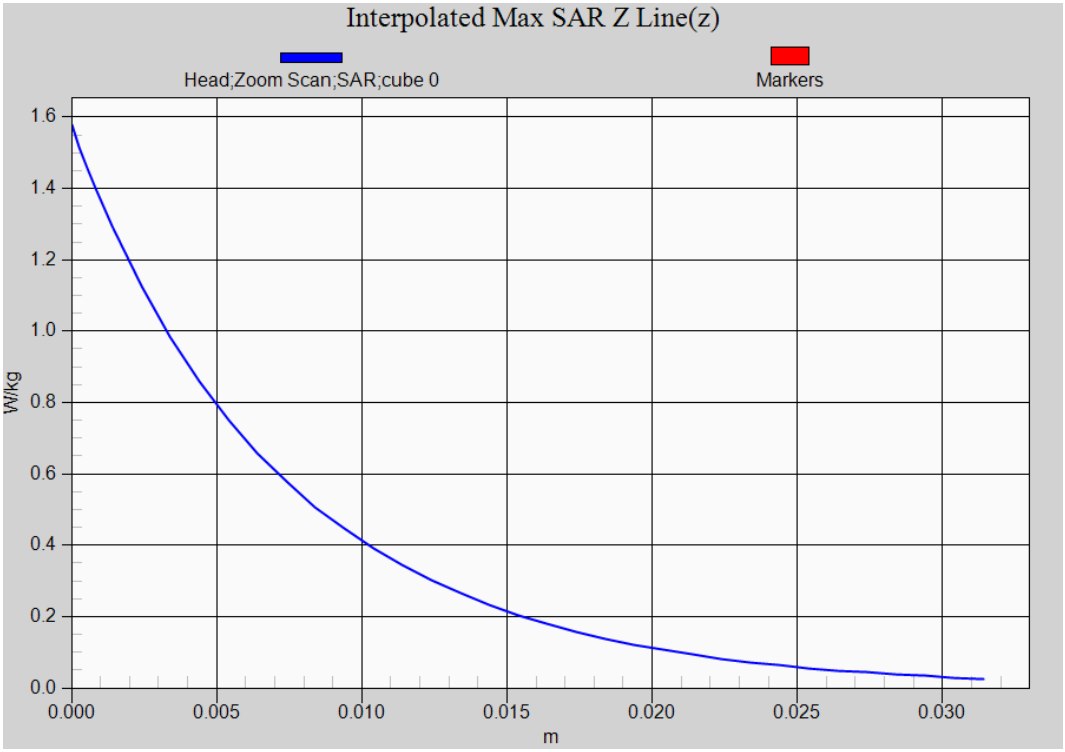
**Configuration/Head/Area Scan (9x18x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.0732 W/kg

**Configuration/Head/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 0.6610 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 0.101 W/kg
**SAR(1 g) = 0.046 W/kg; SAR(10 g) = 0.019 W/kg**
Maximum value of SAR (measured) = 0.0806 W/kg



## 802.11b EUT Left-Cheek_0mm_Head (Main Antenna), Z-Axis plot

## Channel: 1



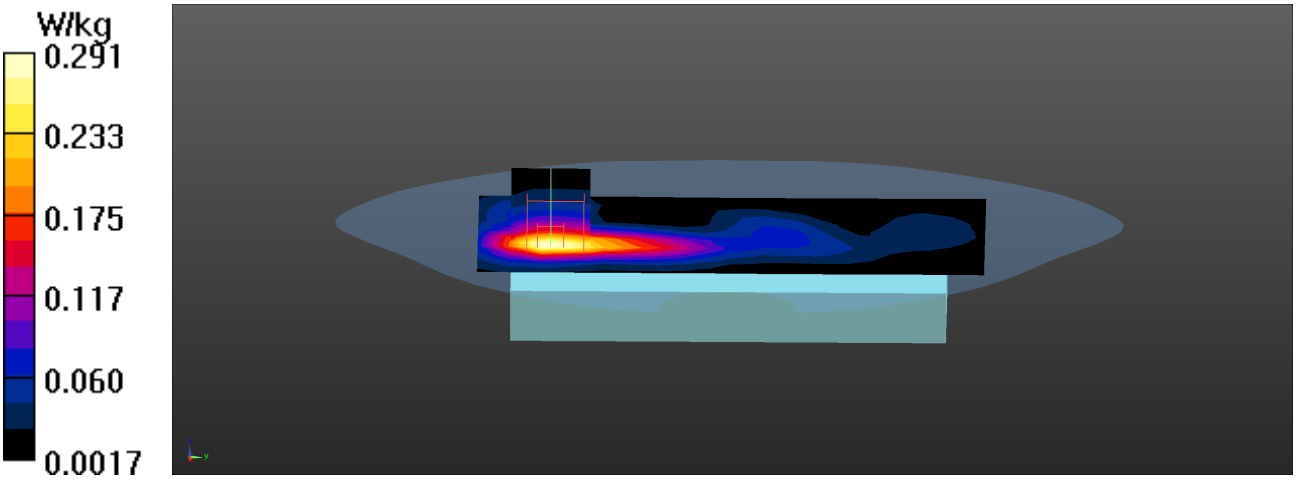
Test Laboratory: DEKRA Date: 2022/12/12

**03_802.11b_11-Back Main 10mm**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, WLAN 2.4G; Frequency: 2462 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 2462 MHz; $\sigma$ = 1.81 S/m; $\varepsilon_r$ = 39.94; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Ambient Temperature (°C) : 22.7, Liquid Temperature (°C) : 21.9
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(7.58, 7.58, 7.58); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

**Configuration/Flat/Area Scan (10x17x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.291 W/kg

**Configuration/Flat/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.54 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.376 W/kg
**SAR(1 g) = 0.204 W/kg; SAR(10 g) = 0.112 W/kg**
Maximum value of SAR (measured) = 0.310 W/kg



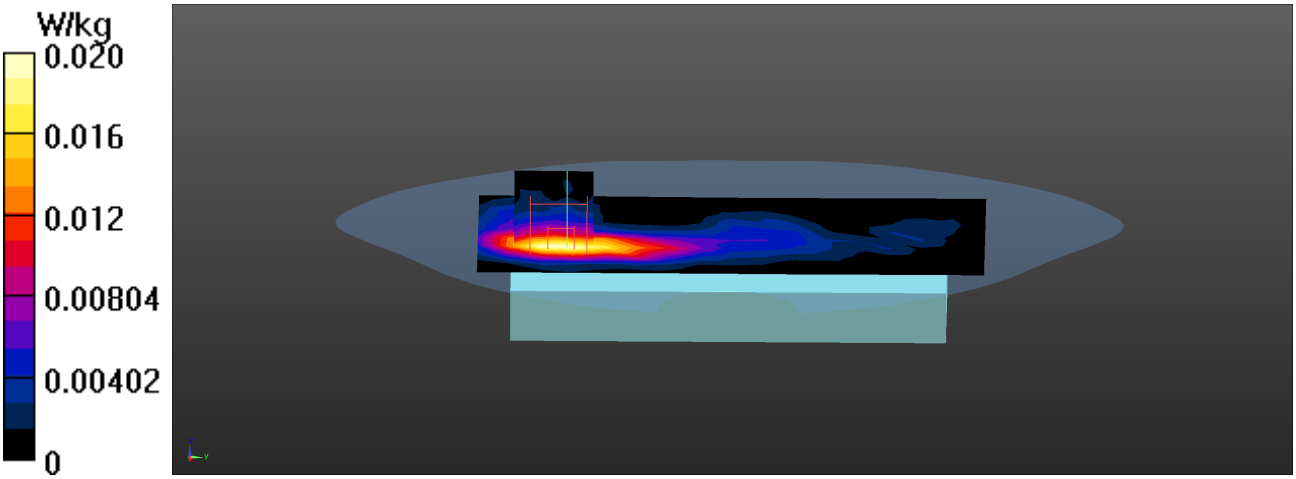
Test Laboratory: DEKRA Date: 2022/12/12

**04_BT-1M_0-Back Main 10mm**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, BT 1M&3M&BLE; Frequency: 2402 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 2402 MHz; $\sigma$ = 1.73 S/m; $\varepsilon_r$ = 40.16; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Ambient Temperature (°C) : 22.7, Liquid Temperature (°C) : 21.9
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(7.58, 7.58, 7.58); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

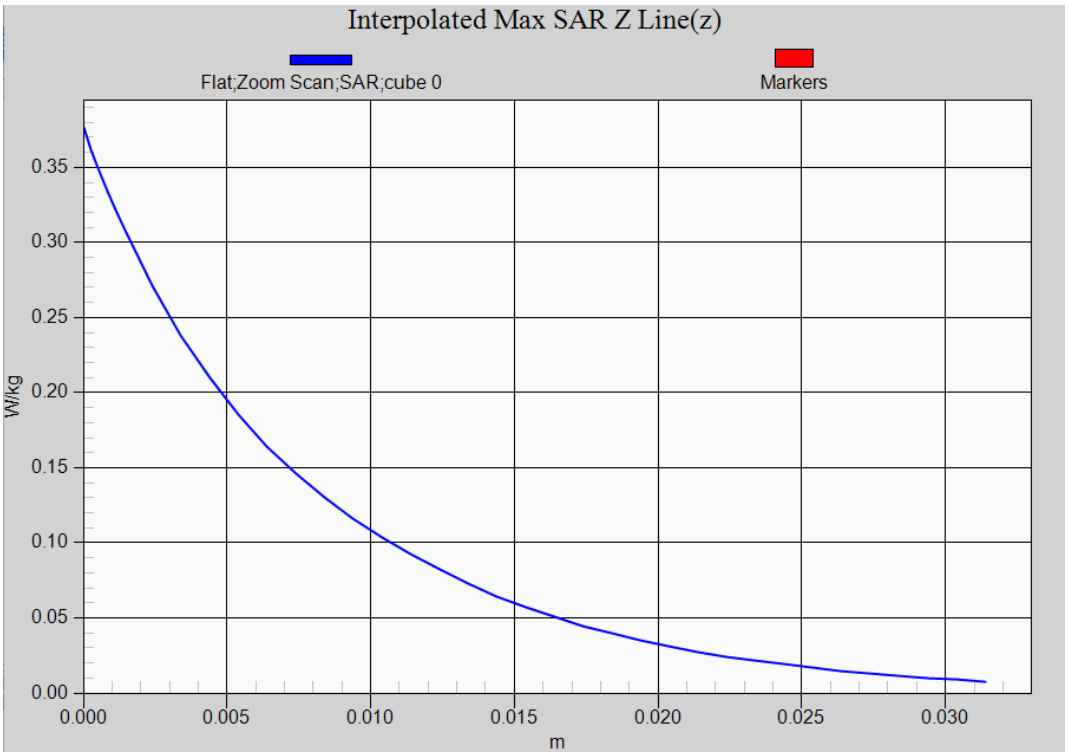
**Configuration/Flat/Area Scan (10x17x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.0201 W/kg

**Configuration/Flat/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.675 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 0.0260 W/kg
**SAR(1 g) = 0.013 W/kg; SAR(10 g) = 0.00683 W/kg**
Maximum value of SAR (measured) = 0.0208 W/kg



## 802.11b EUT Back_10mm_Body (Main Antenna), Z-Axis plot

## Channel: 11



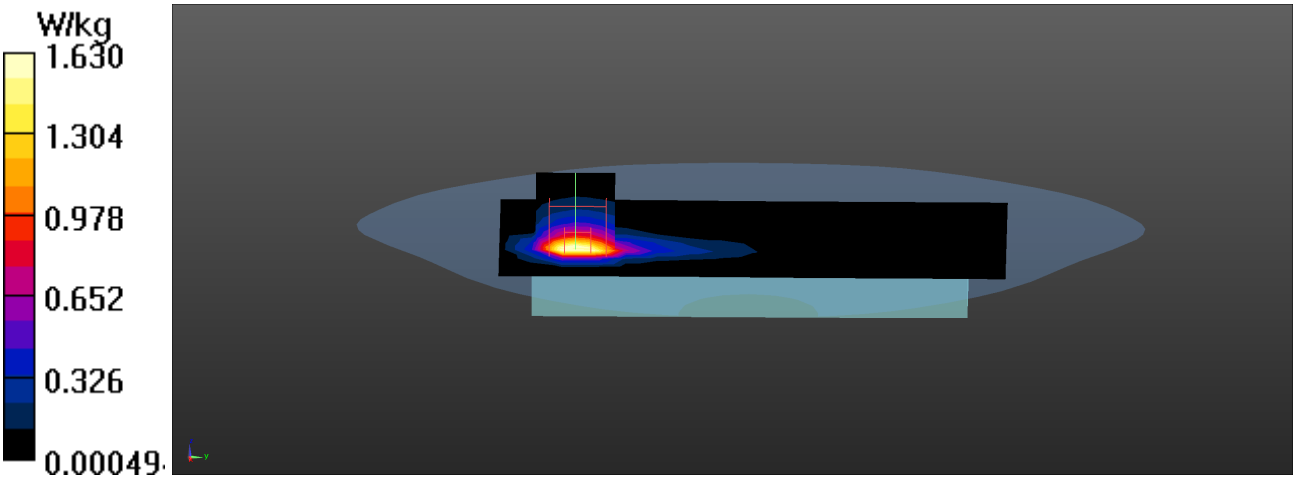
Test Laboratory: DEKRA Date: 2022/12/12

**05_802.11b_6-Back Main 0mm**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, WLAN 2.4G; Frequency: 2437 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 2437 MHz; $\sigma$ = 1.77 S/m; $\varepsilon_r$ = 40.03; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Ambient Temperature (°C) : 22.7, Liquid Temperature (°C) : 21.9
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(7.58, 7.58, 7.58); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

**Configuration/Flat/Area Scan (10x17x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.63 W/kg

**Configuration/Flat/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 5.978 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 2.32 W/kg
**SAR(1 g) = 1.13 W/kg; SAR(10 g) = 0.525 W/kg**
Maximum value of SAR (measured) = 1.83 W/kg



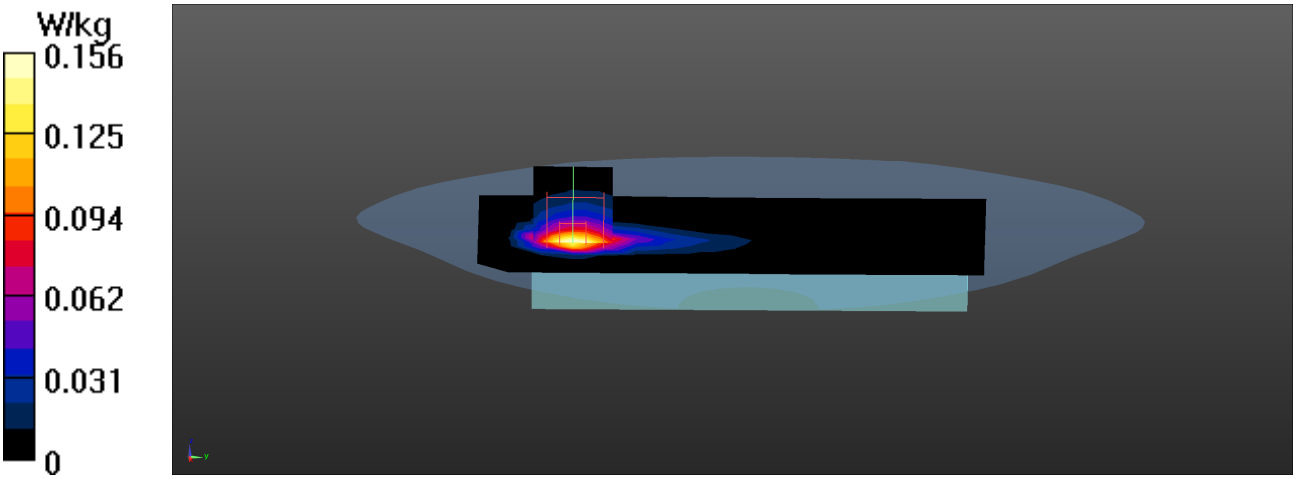
Test Laboratory: DEKRA Date: 2022/12/12

**06_BT-1M_0-Back Main 0mm**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, BT 1M&3M&BLE; Frequency: 2402 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 2402 MHz; $\sigma$ = 1.73 S/m; $\varepsilon_r$ = 40.16; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Ambient Temperature (°C) : 22.7, Liquid Temperature (°C) : 21.9
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(7.58, 7.58, 7.58); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

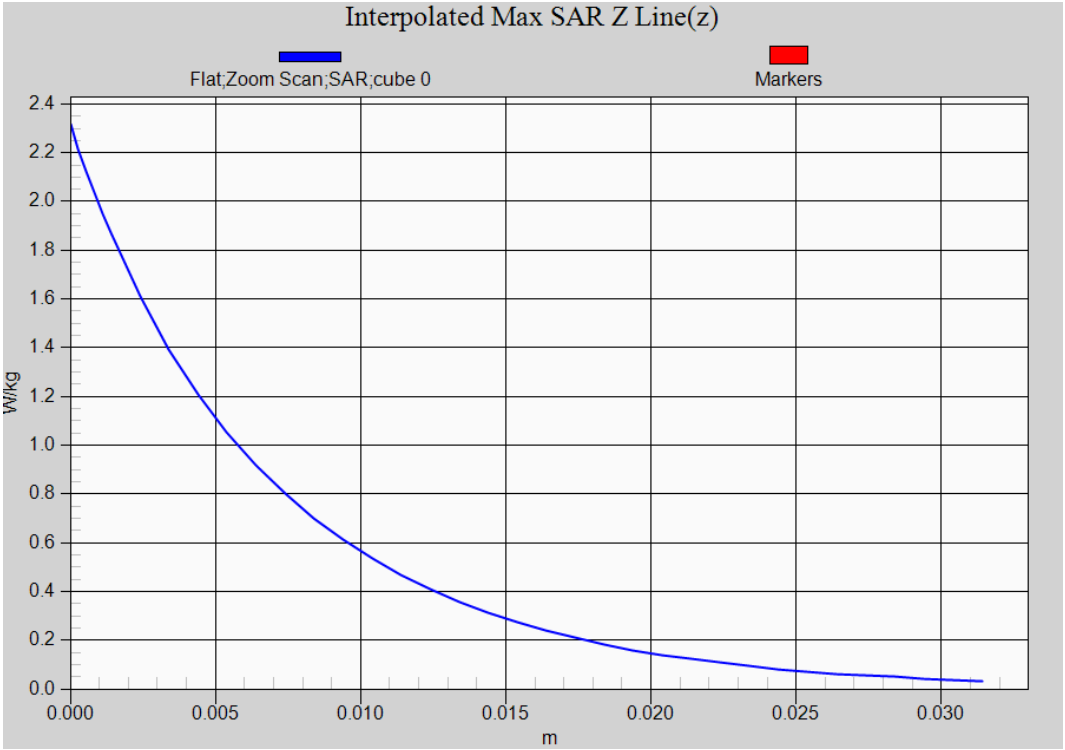
**Configuration/Flat/Area Scan (10x17x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.156 W/kg

**Configuration/Flat/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.34 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.215 W/kg
**SAR(1 g) = 0.107 W/kg; SAR(10 g) = 0.051 W/kg**
Maximum value of SAR (measured) = 0.173 W/kg



## 802.11b EUT Back_0mm_Body (Main Antenna), Z-Axis plot

## Channel: 6



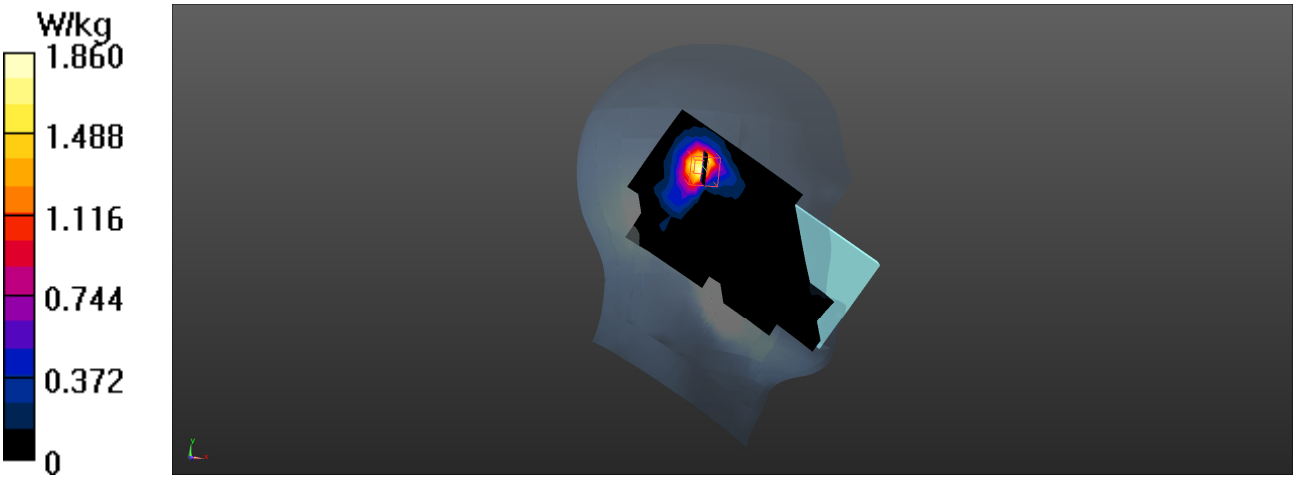
Test Laboratory: DEKRA Date: 2022/12/10

**07_802.11ac80M_138_Left-Check Main**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, WLAN 5G; Frequency: 5690 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 5690 MHz; $\sigma$ = 5.17 S/m; $\varepsilon_r$ = 34.75; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Ambient Temperature (°C) : 22.8, Liquid Temperature (°C) : 21.8
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.42, 4.42, 4.42); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

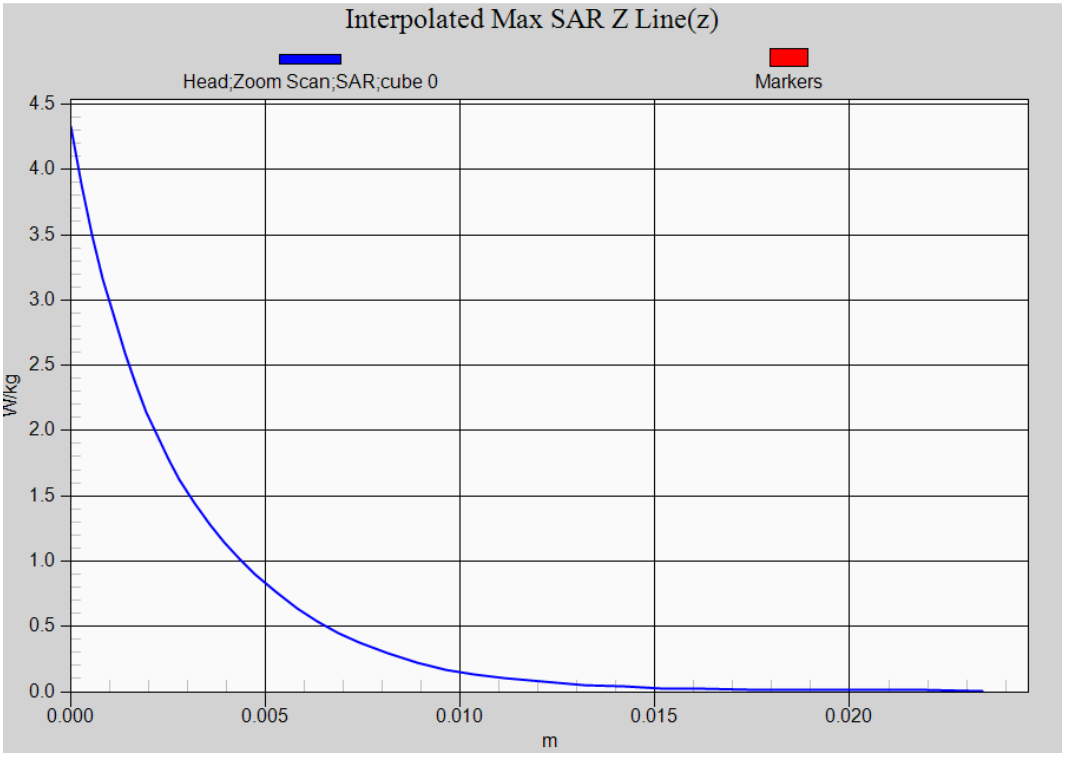
**Configuration/Head/Area Scan (11x21x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 1.86 W/kg

**Configuration/Head/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 23.81 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 4.32 W/kg
**SAR(1 g) = 1.07 W/kg; SAR(10 g) = 0.354 W/kg**
Maximum value of SAR (measured) = 2.56 W/kg



## 802.11ac80M EUT Left-Cheek_0mm_Head (Main Antenna), Z-Axis plot

## Channel: 138



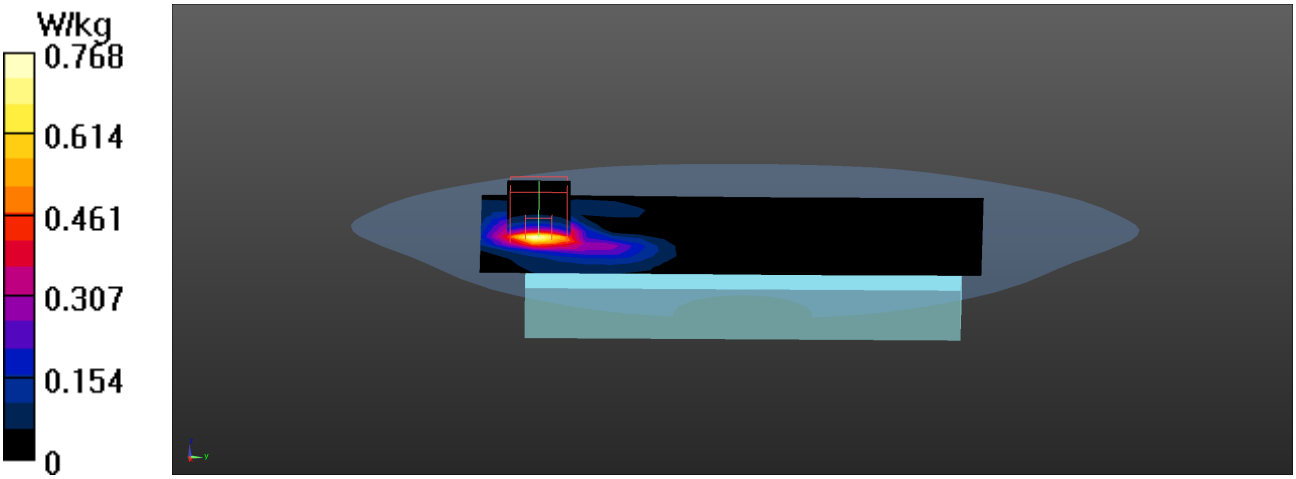
Test Laboratory: DEKRA Date: 2022/12/10

**08_802.11ac80M_138_Back Main_10mm**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, WLAN 5G; Frequency: 5690 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 5690 MHz; $\sigma$ = 5.17 S/m; $\varepsilon_r$ = 34.75; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Ambient Temperature (°C) : 22.8, Liquid Temperature (°C) : 21.8
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.42, 4.42, 4.42); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

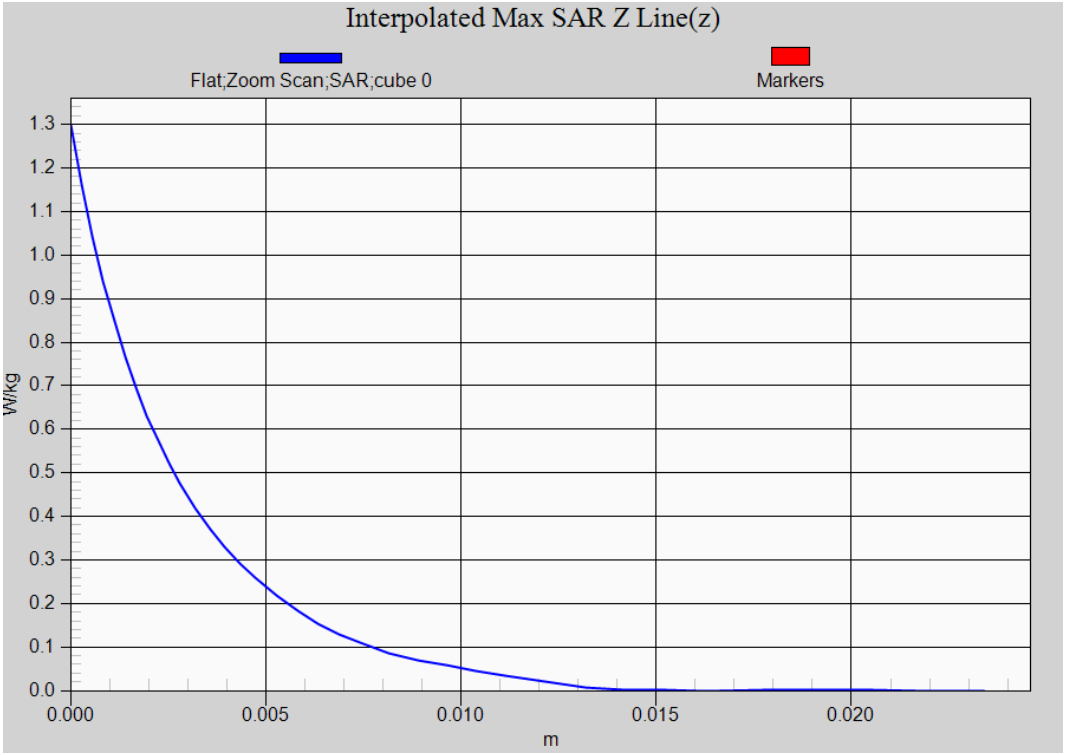
**Configuration/Flat/Area Scan (12x20x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.768 W/kg

**Configuration/Flat/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 12.95 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 1.30 W/kg
**SAR(1 g) = 0.333 W/kg; SAR(10 g) = 0.130 W/kg**
Maximum value of SAR (measured) = 0.767 W/kg



## 802.11ac80M EUT Back_10mm_Body (Main Antenna), Z-Axis plot

## Channel: 138



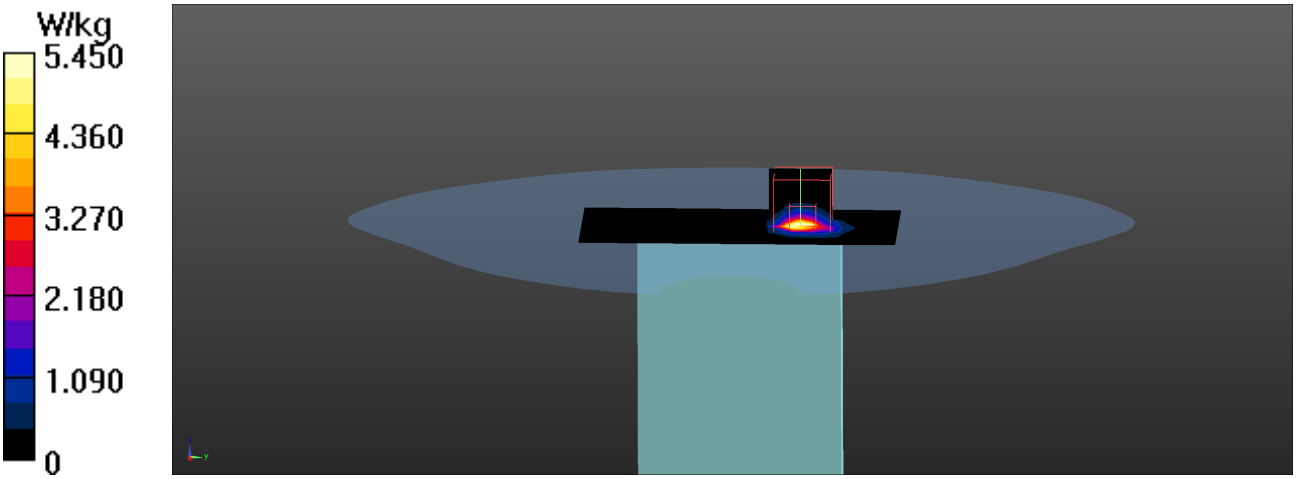
Test Laboratory: DEKRA Date: 2022/12/10

**09_802.11ac80M_122_Top Main 0mm**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, WLAN 5G; Frequency: 5610 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 5610 MHz; $\sigma$ = 5.07 S/m; $\varepsilon_r$ = 34.96; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Ambient Temperature (°C) : 22.8, Liquid Temperature (°C) : 21.8
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.42, 4.42, 4.42); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

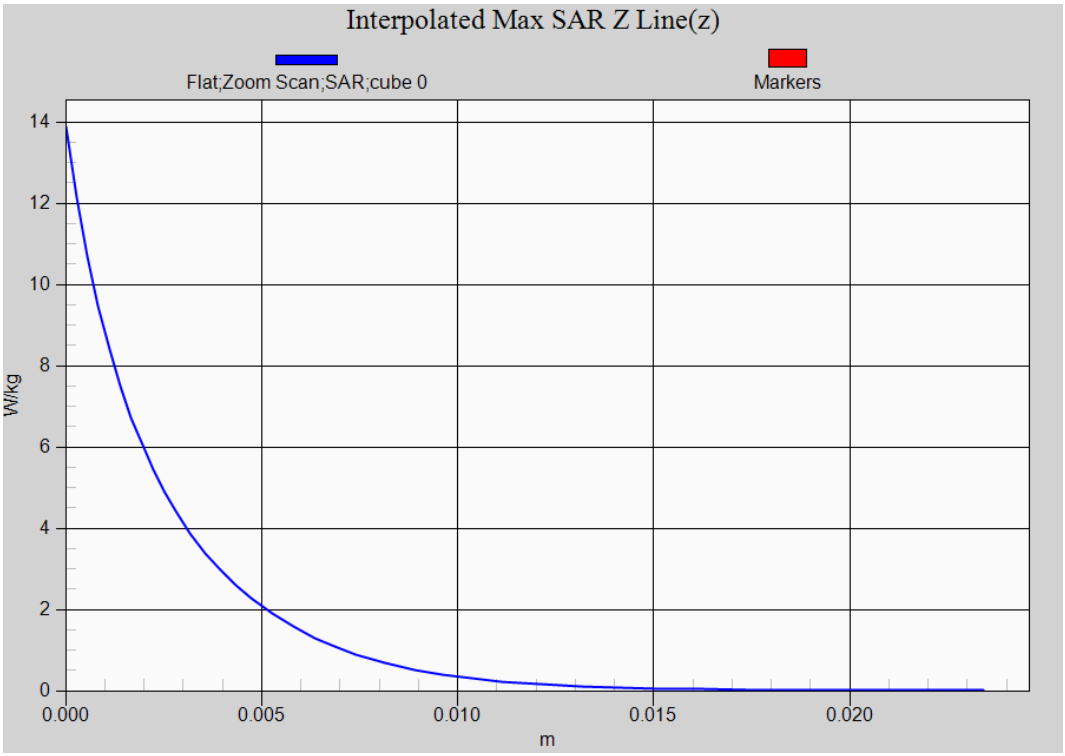
**Configuration/Flat/Area Scan (7x13x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 5.45 W/kg

**Configuration/Flat/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 42.05 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 13.9 W/kg
**SAR(1 g) = 2.61 W/kg; SAR(10 g) = 0.671 W/kg**
Maximum value of SAR (measured) = 7.45 W/kg



## 802.11ac80M EUT Top_0mm_Body (Main Antenna), Z-Axis plot

## Channel: 122



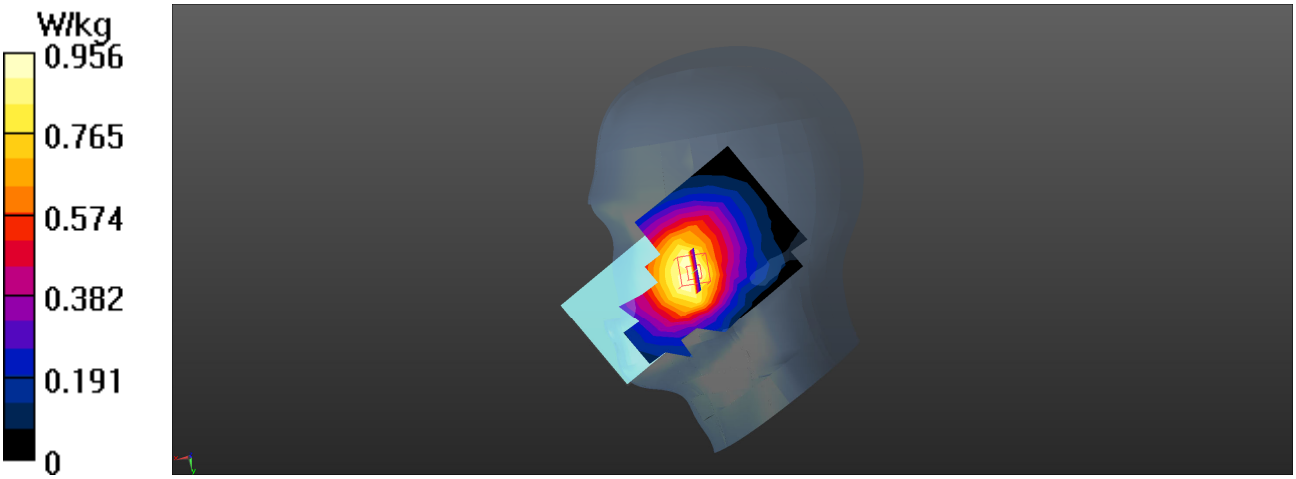
Test Laboratory: DEKRA Date: 2022/12/27

**10_GSM 850_4UP_Right-Cheek_128**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, FCC GSM_850MHz_GPRS&EGPRS-4 Slot;
Frequency: 824.2 MHz;Communication System PAR: 3.01 dB
Medium parameters used: f = 824.2 MHz; $\sigma$ = 0.89 S/m; $\varepsilon_r$ = 40.95; $\rho$ = 1000 kg/m$^3$
Phantom section: Right Section
Ambient Temperature (°C) : 23.1, Liquid Temperature (°C) : 22.2
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(10.05, 10.05, 10.05); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

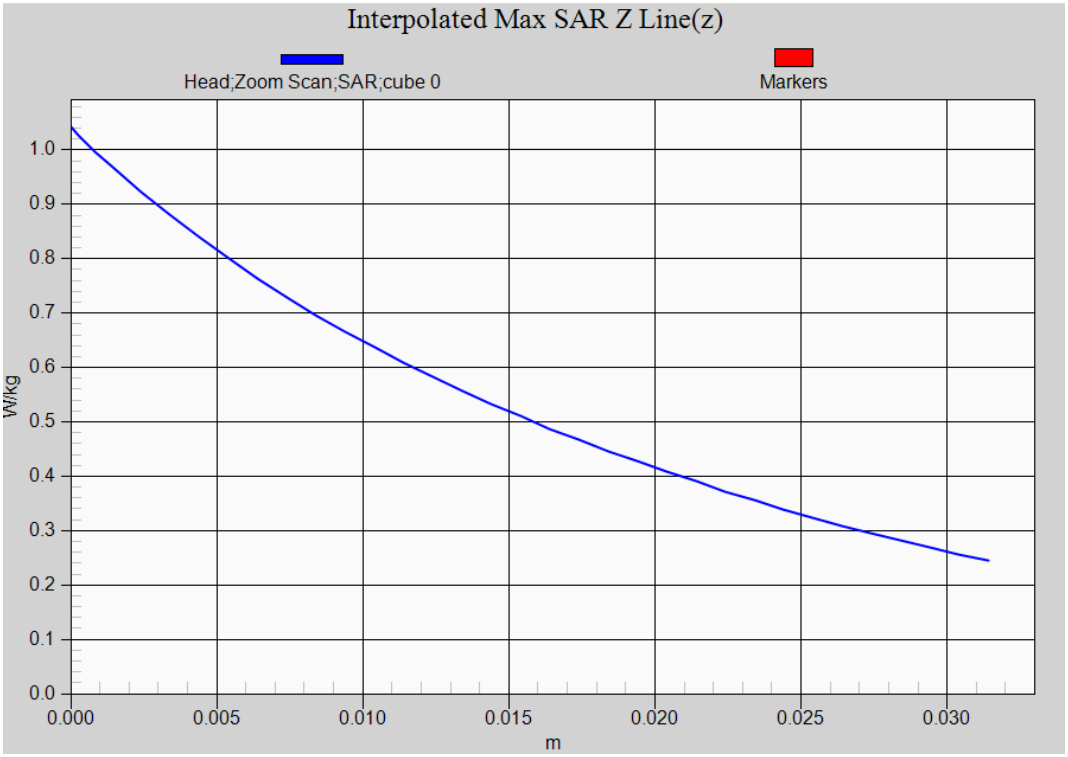
**Configuration/Head/Area Scan (8x14x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.956 W/kg

**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.98 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 1.04 W/kg
**SAR(1 g) = 0.819 W/kg; SAR(10 g) = 0.626 W/kg**
Maximum value of SAR (measured) = 0.966 W/kg



## GSM 850 GPRS 4UP EUT Right-Cheek_0mm_Head, Z-Axis plot

## Channel: 128



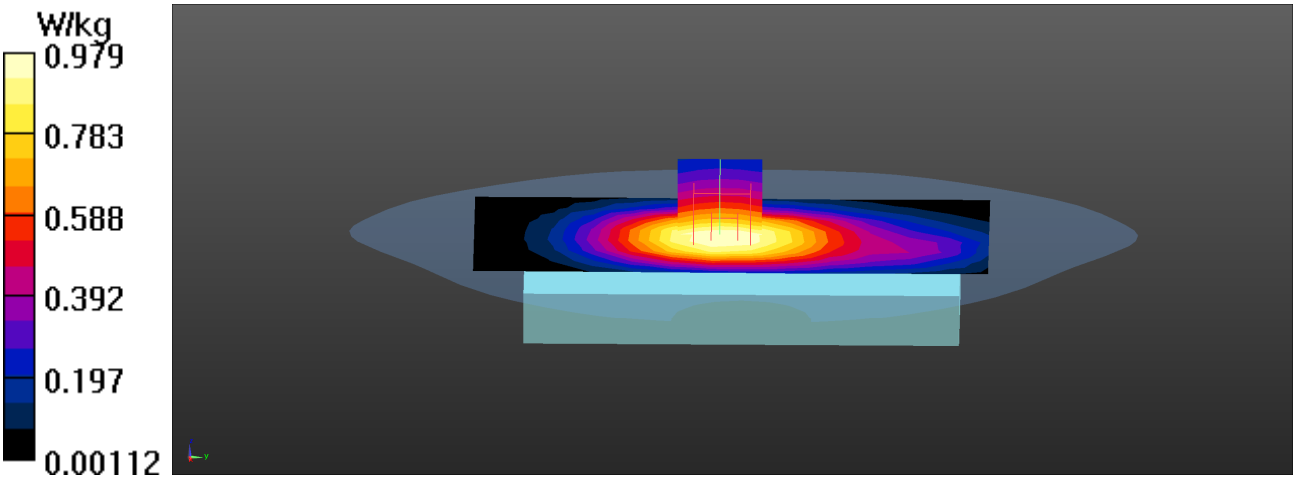
Test Laboratory: DEKRA Date: 2022/12/27

**11_GSM 850_4UP_Front_128_10mm**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, FCC GSM_850MHz_GPRS&EGPRS-4 Slot;
Frequency: 824.2 MHz;Communication System PAR: 3.01 dB
Medium parameters used: f = 824.2 MHz; $\sigma$ = 0.89 S/m; $\varepsilon_r$ = 40.95; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Ambient Temperature (°C) : 23.1, Liquid Temperature (°C) : 22.2
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(10.05, 10.05, 10.05); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

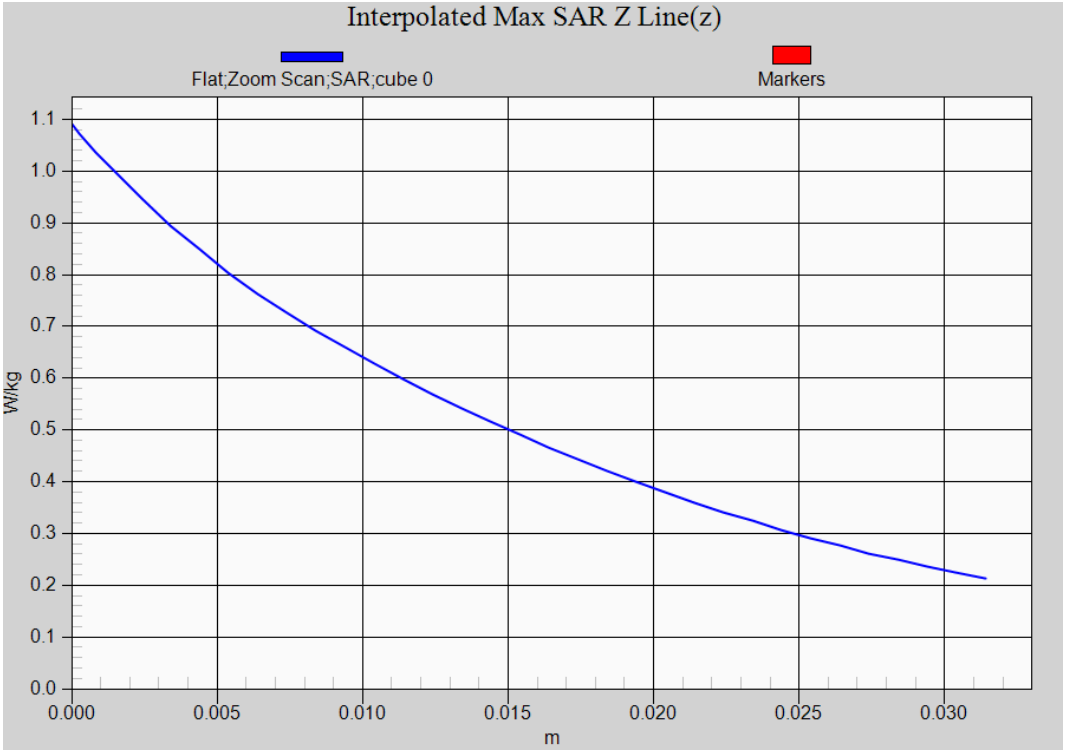
**Configuration/Flat/Area Scan (8x14x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.979 W/kg

**Configuration/Flat/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 34.92 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 1.09 W/kg
**SAR(1 g) = 0.836 W/kg; SAR(10 g) = 0.633 W/kg**
Maximum value of SAR (measured) = 1.00 W/kg



## GSM 850 GPRS 4UP EUT Front_10mm_Body, Z-Axis plot

## Channel: 128



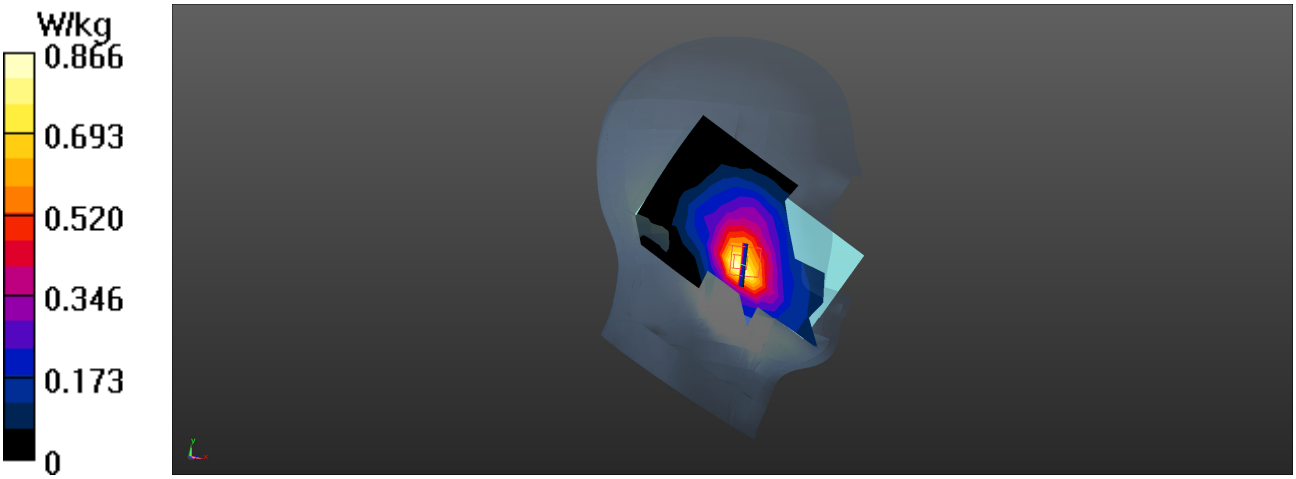
Test Laboratory: DEKRA Date: 2022/12/27

**12_PCS 1900_4UP_Left-Cheek_810**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, FCC PCS_1900MHz_GPRS&EGPRS-4 Slot;
Frequency: 1909.8 MHz;Communication System PAR: 3.01 dB
Medium parameters used: f = 1909.8 MHz; $\sigma$ = 1.41 S/m; $\varepsilon_r$ = 38.96; $\rho$ = 1000 kg/m$^3$
Phantom section: Left Section
Ambient Temperature (°C) : 23.1, Liquid Temperature (°C) : 22.2
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.12, 8.12, 8.12); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

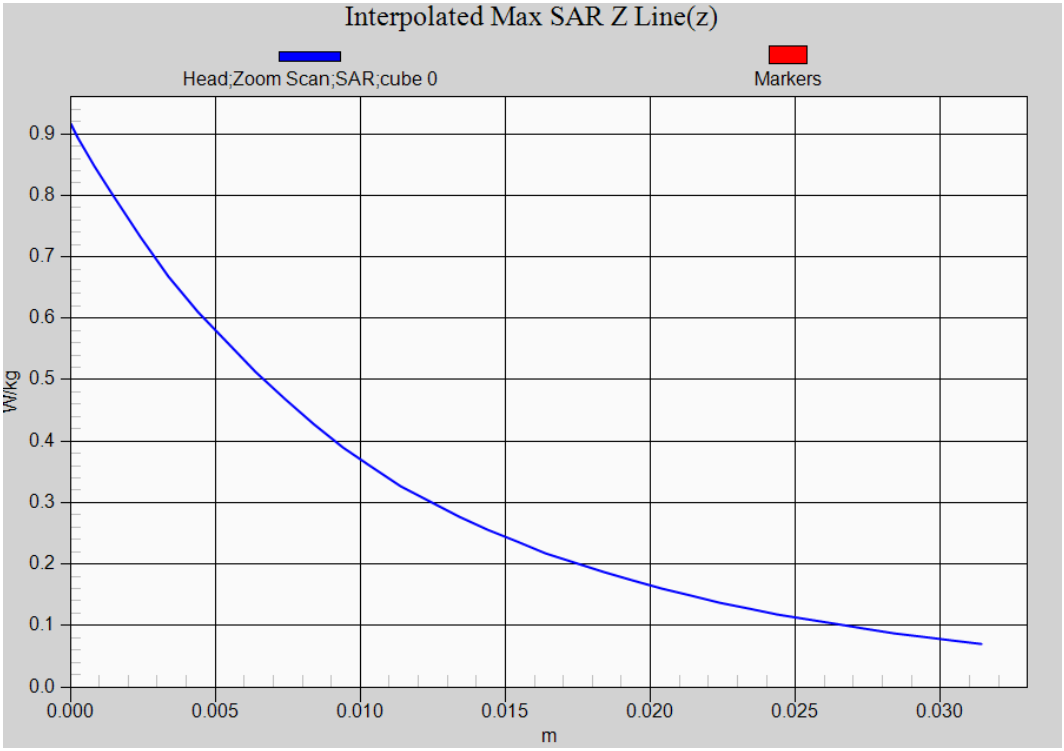
**Configuration/Head/Area Scan (8x14x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.866 W/kg

**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.269 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 0.918 W/kg
**SAR(1 g) = 0.594 W/kg; SAR(10 g) = 0.367 W/kg**
Maximum value of SAR (measured) = 0.808 W/kg



## PCS 1900 GPRS 4UP EUT Left-Cheek_0mm_Head, Z-Axis plot

## Channel: 661



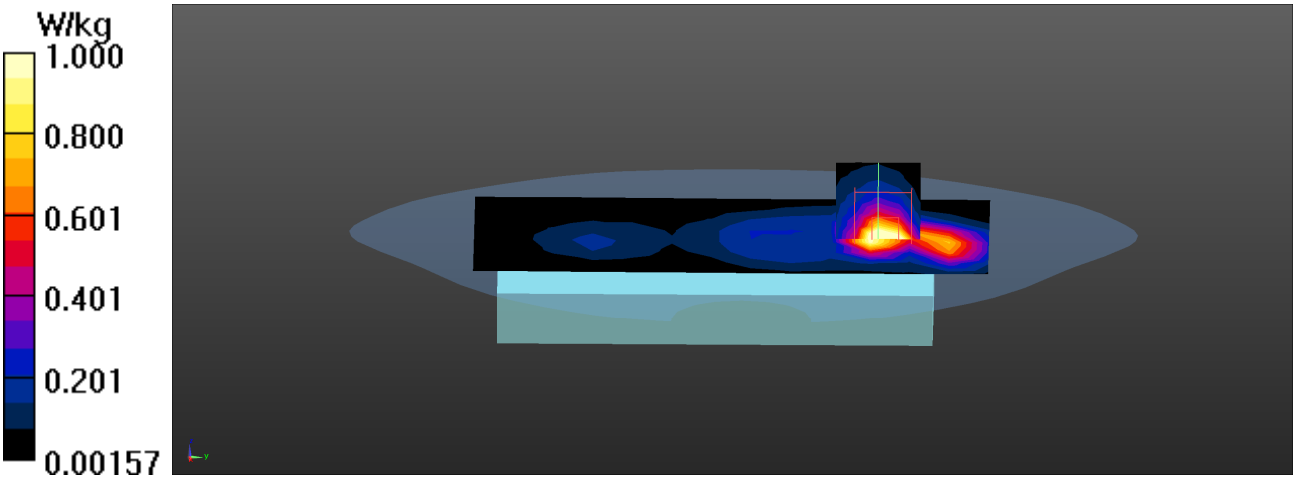
Test Laboratory: DEKRA Date: 2022/12/27

**13_PCS 1900_4UP_Back_512_10mm**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, FCC PCS_1900MHz_GPRS&EGPRS-4 Slot;
Frequency: 1850.2 MHz;Communication System PAR: 3.01 dB
Medium parameters used: f = 1850.2 MHz; $\sigma$ = 1.4 S/m; $\varepsilon_r$ = 39.11; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Ambient Temperature (°C) : 23.1, Liquid Temperature (°C) : 22.2
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.12, 8.12, 8.12); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

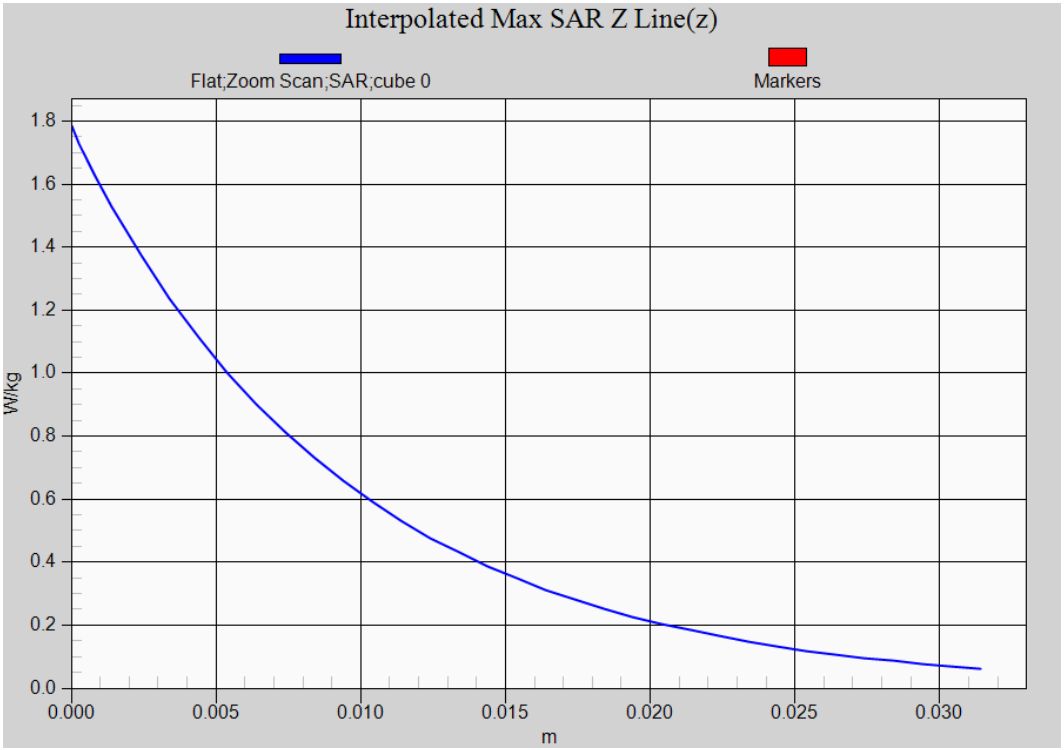
**Configuration/Flat/Area Scan (8x14x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.00 W/kg

**Configuration/Flat/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 30.99 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 1.78 W/kg
**SAR(1 g) = 1.000 W/kg; SAR(10 g) = 0.496 W/kg**
Maximum value of SAR (measured) = 1.36 W/kg



## PCS 1900 GPRS 4UP EUT Back_10mm_Body, Z-Axis plot

## Channel: 512



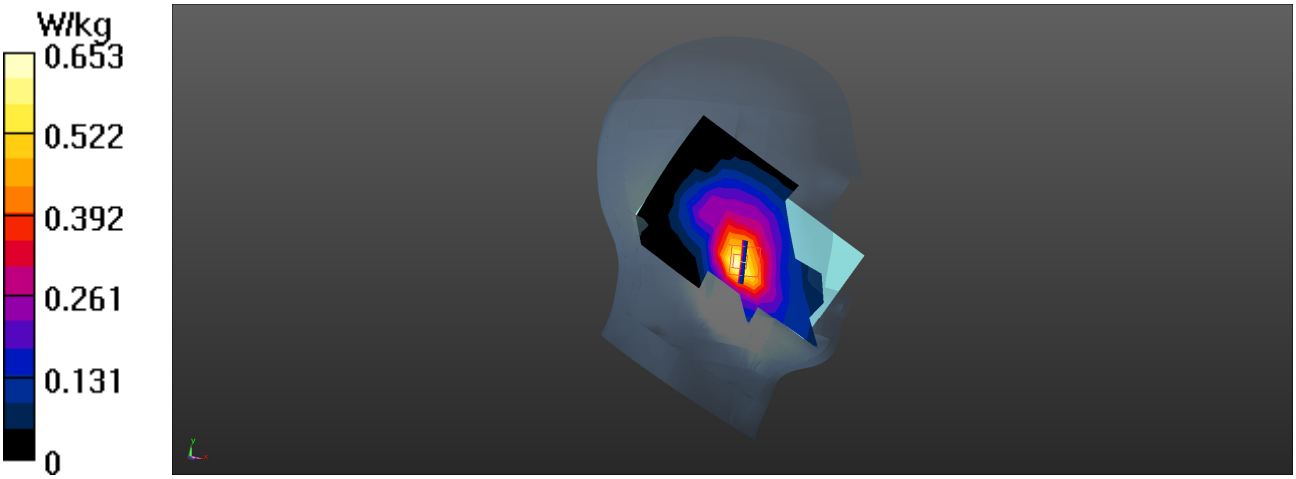
Test Laboratory: DEKRA Date: 2022/12/17

**14_WCDMA_BAND 2_RMC_9538_Left-Check**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, FCC WCDMA_Band-2; Frequency: 1907.6 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 1907.6 MHz; $\sigma$ = 1.38 S/m; $\varepsilon_r$ = 39.94; $\rho$ = 1000 kg/m$^3$
Phantom section: Left Section
Ambient Temperature (°C) : 23.1, Liquid Temperature (°C) : 22.2
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.12, 8.12, 8.12); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

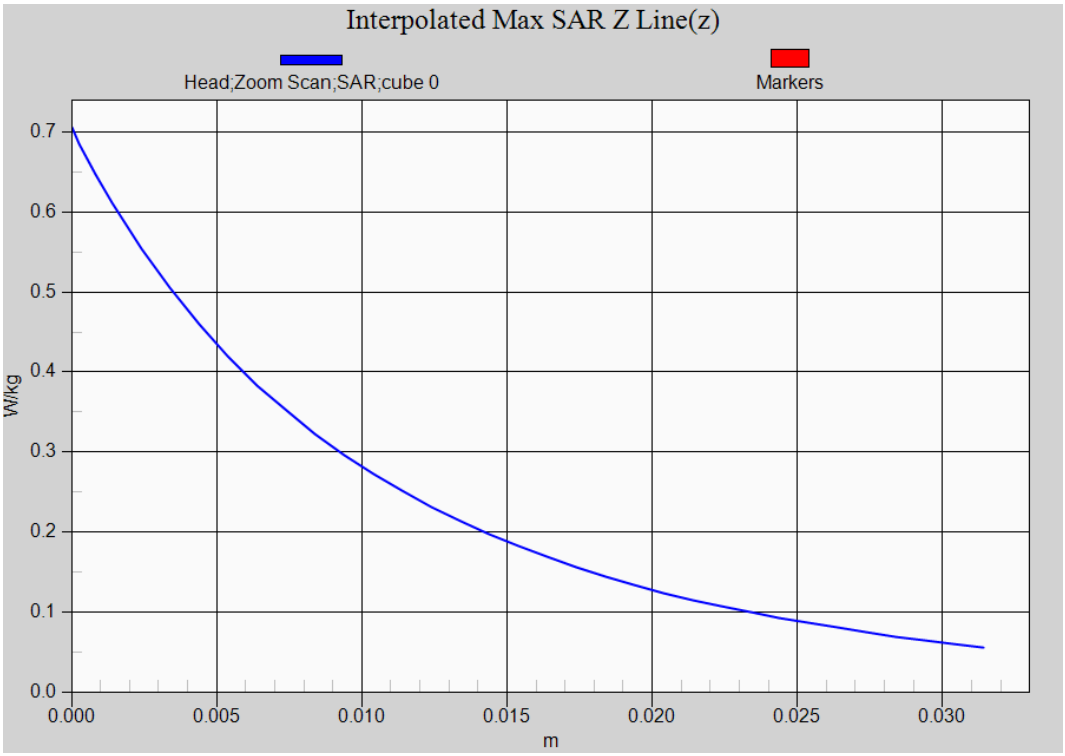
**Configuration/Head/Area Scan (8x14x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.653 W/kg

**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.294 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.705 W/kg
**SAR(1 g) = 0.449 W/kg; SAR(10 g) = 0.276 W/kg**
Maximum value of SAR (measured) = 0.610 W/kg



## WCDMA_Band 2_RMC EUT Left-Check_0mm_Head, Z-Axis plot

## Channel: 9538



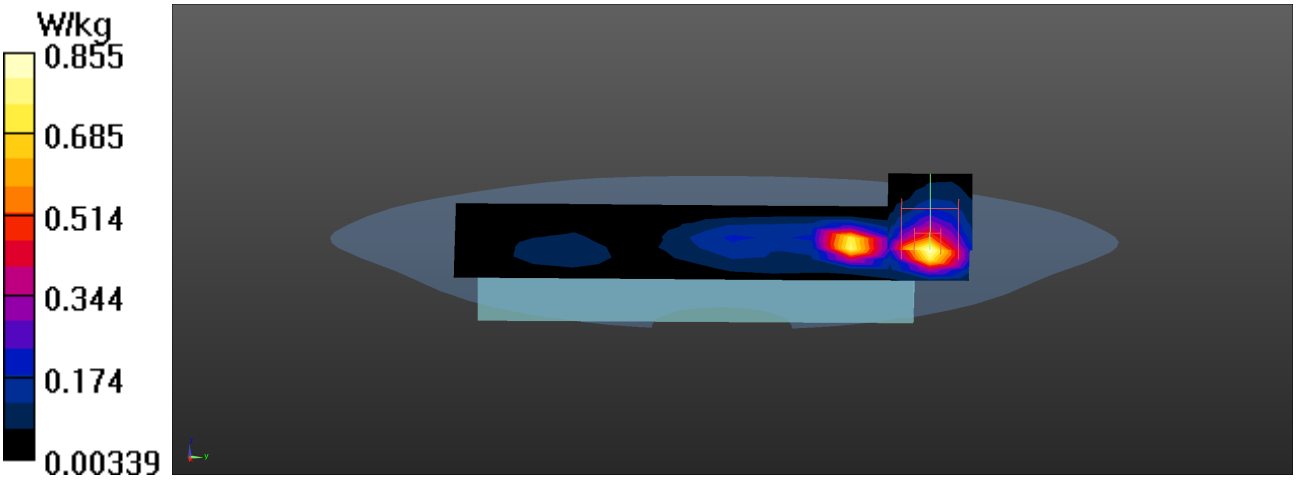
Test Laboratory: DEKRA Date: 2022/12/17

**15_WCDMA_BAND 2_RMC_9400_Back_10mm**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, FCC WCDMA_Band-2; Frequency: 1880 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 1880 MHz; $\sigma$ = 1.37 S/m; $\varepsilon_r$ = 40.21; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Ambient Temperature (°C) : 23.1, Liquid Temperature (°C) : 22.2
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.12, 8.12, 8.12); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

**Configuration/Flat/Area Scan (8x14x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.855 W/kg

**Configuration/Flat/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.07 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 1.02 W/kg
**SAR(1 g) = 0.596 W/kg; SAR(10 g) = 0.318 W/kg**
Maximum value of SAR (measured) = 0.853 W/kg



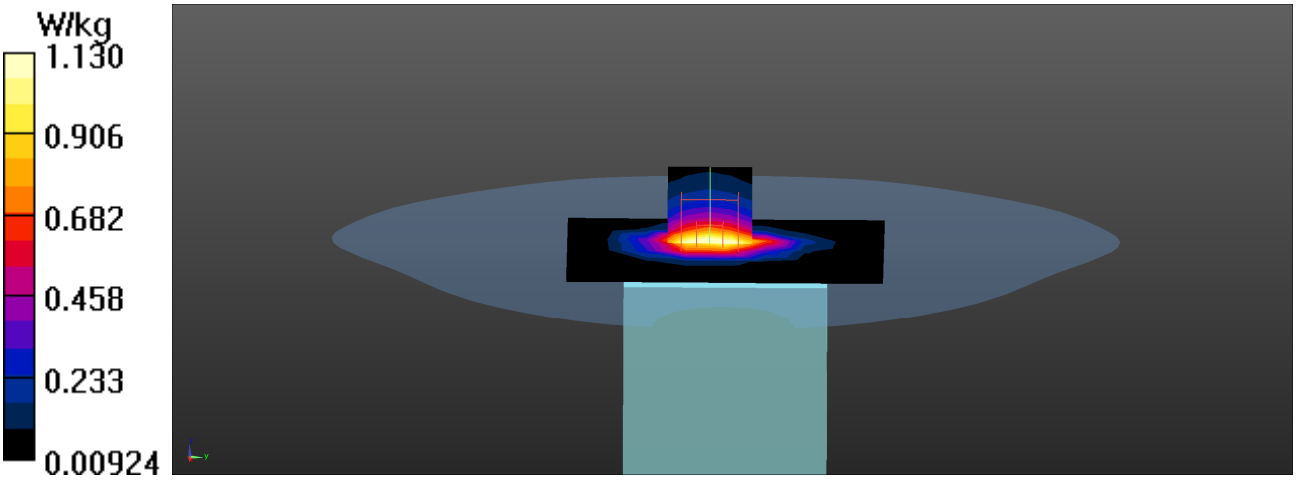
Test Laboratory: DEKRA Date: 2022/12/17

**16_WCDMA_BAND 2_RMC_9400_Bottom_10mm**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, FCC WCDMA_Band-2; Frequency: 1880 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 1880 MHz; $\sigma$ = 1.37 S/m; $\varepsilon_r$ = 40.21; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Ambient Temperature (°C) : 23.1, Liquid Temperature (°C) : 22.2
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.12, 8.12, 8.12); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

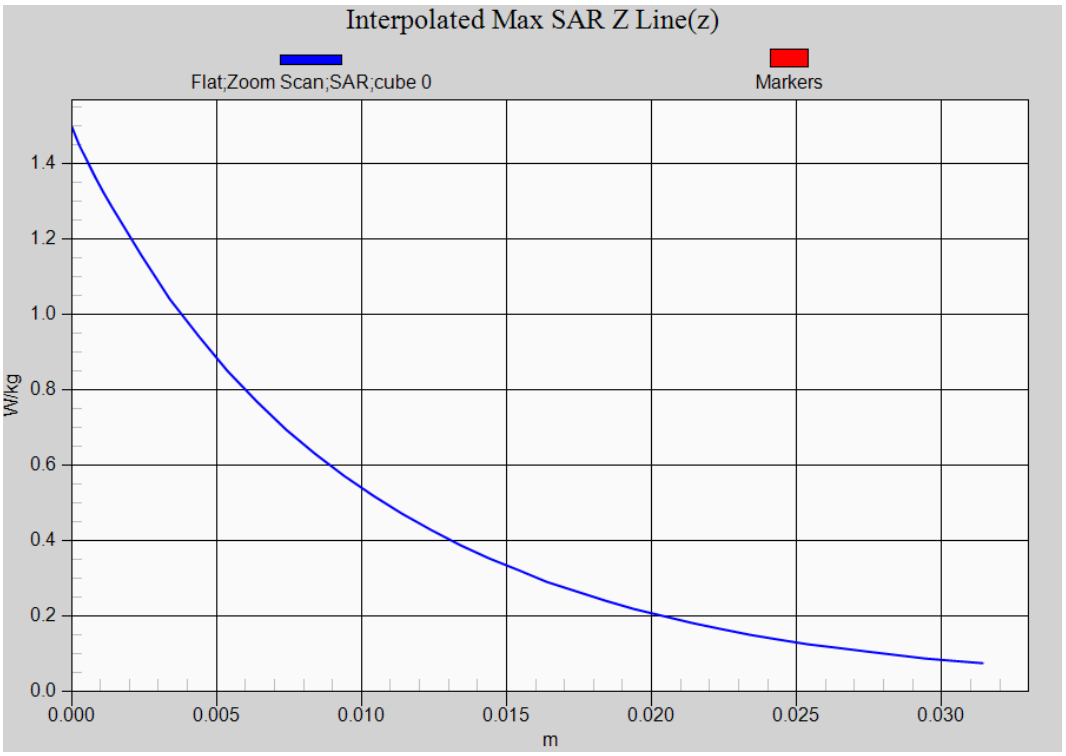
**Configuration/Flat/Area Scan (7x9x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.13 W/kg

**Configuration/Flat/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.16 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 1.49 W/kg
**SAR(1 g) = 0.879 W/kg; SAR(10 g) = 0.485 W/kg**
Maximum value of SAR (measured) = 1.28 W/kg



## WCDMA_Band 2_RMC EUT Bottom_10mm_Body, Z-Axis plot

## Channel: 9400



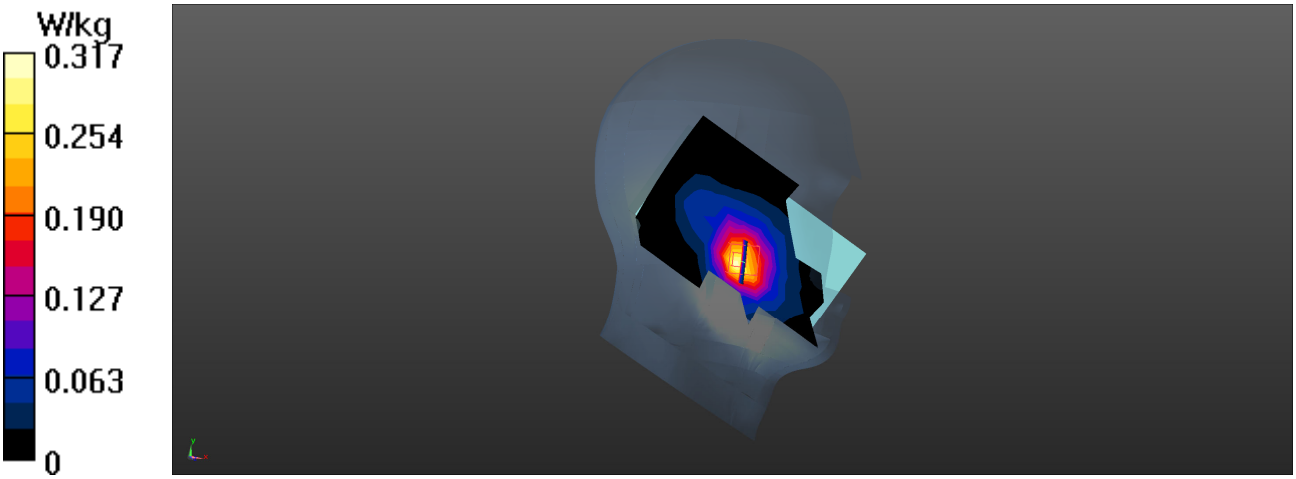
Test Laboratory: DEKRA Date: 2022/12/27

**17_WCDMA_BAND 4_RMC_1513_Left-Check**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, FCC WCDMA_Band 4; Frequency: 1752.6 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 1752.6 MHz; $\sigma$ = 1.38 S/m; $\varepsilon_r$ = 39.56; $\rho$ = 1000 kg/m$^3$
Phantom section: Left Section
Ambient Temperature (°C) : 23.1, Liquid Temperature (°C) : 22.2
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.34, 8.34, 8.34); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

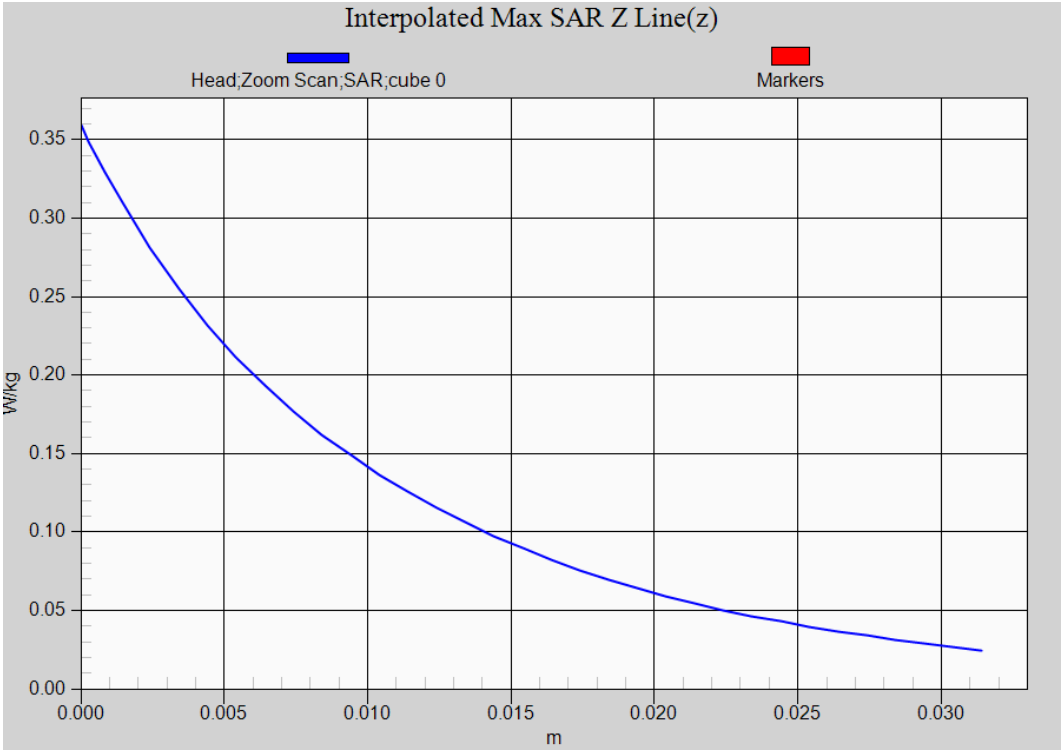
**Configuration/Head/Area Scan (8x14x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.317 W/kg

**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.172 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.359 W/kg
**SAR(1 g) = 0.225 W/kg; SAR(10 g) = 0.135 W/kg**
Maximum value of SAR (measured) = 0.305 W/kg



## WCDMA_Band 4_RMC EUT Left-Check_0mm_Head, Z-Axis plot

## Channel: 1513



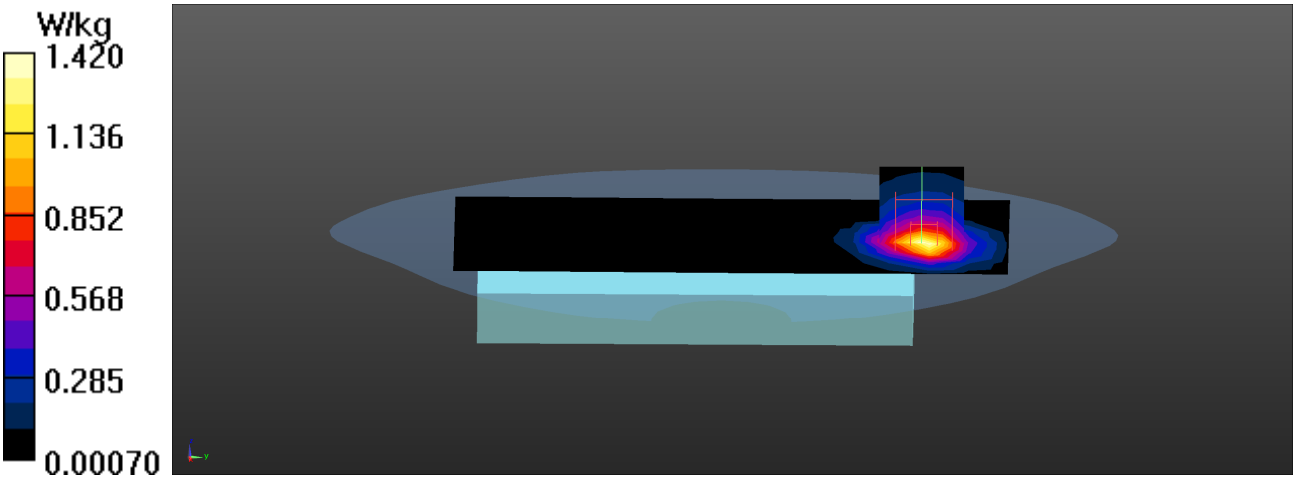
Test Laboratory: DEKRA Date: 2022/12/27

**18_WCDMA_BAND 4_RMC_1312_Back_10mm**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, FCC WCDMA_Band 4; Frequency: 1712.4 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 1712.4 MHz; $\sigma$ = 1.36 S/m; $\varepsilon_r$ = 39.93; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Ambient Temperature (°C) : 23.1, Liquid Temperature (°C) : 22.2
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.34, 8.34, 8.34); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

**Configuration/Head/Area Scan (8x15x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.42 W/kg

**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 33.39 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.68 W/kg
**SAR(1 g) = 0.987 W/kg; SAR(10 g) = 0.562 W/kg**
Maximum value of SAR (measured) = 1.57 W/kg



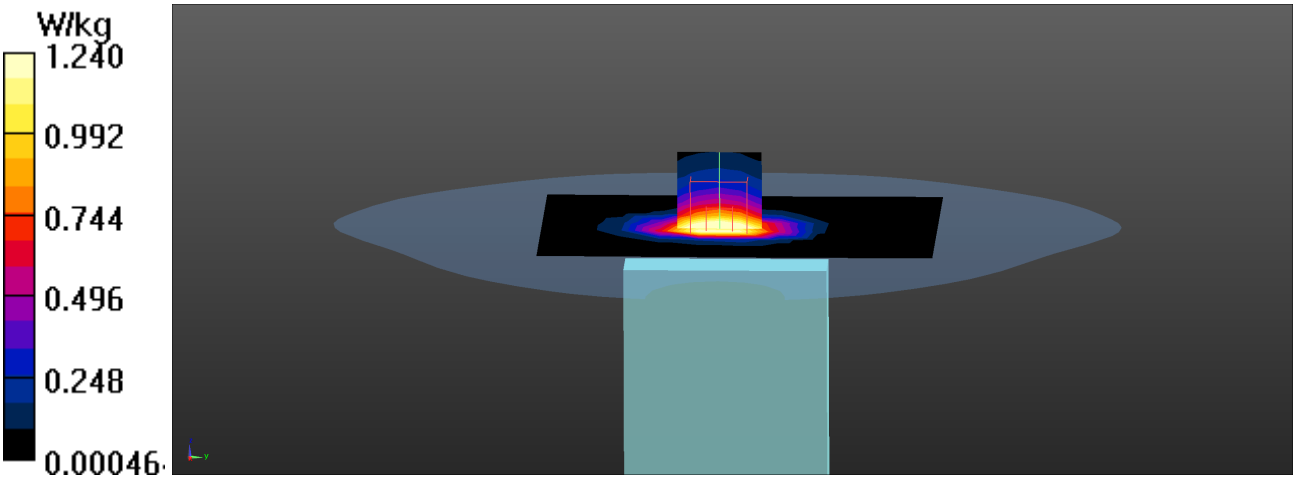
Test Laboratory: DEKRA Date: 2022/12/27

**19_WCDMA_BAND 4_RMC_1312_Bottom_10mm**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, FCC WCDMA_Band 4; Frequency: 1712.4 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 1712.4 MHz; $\sigma$ = 1.36 S/m; $\varepsilon_r$ = 39.93; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Ambient Temperature (°C) : 23.1, Liquid Temperature (°C) : 22.2
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.34, 8.34, 8.34); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

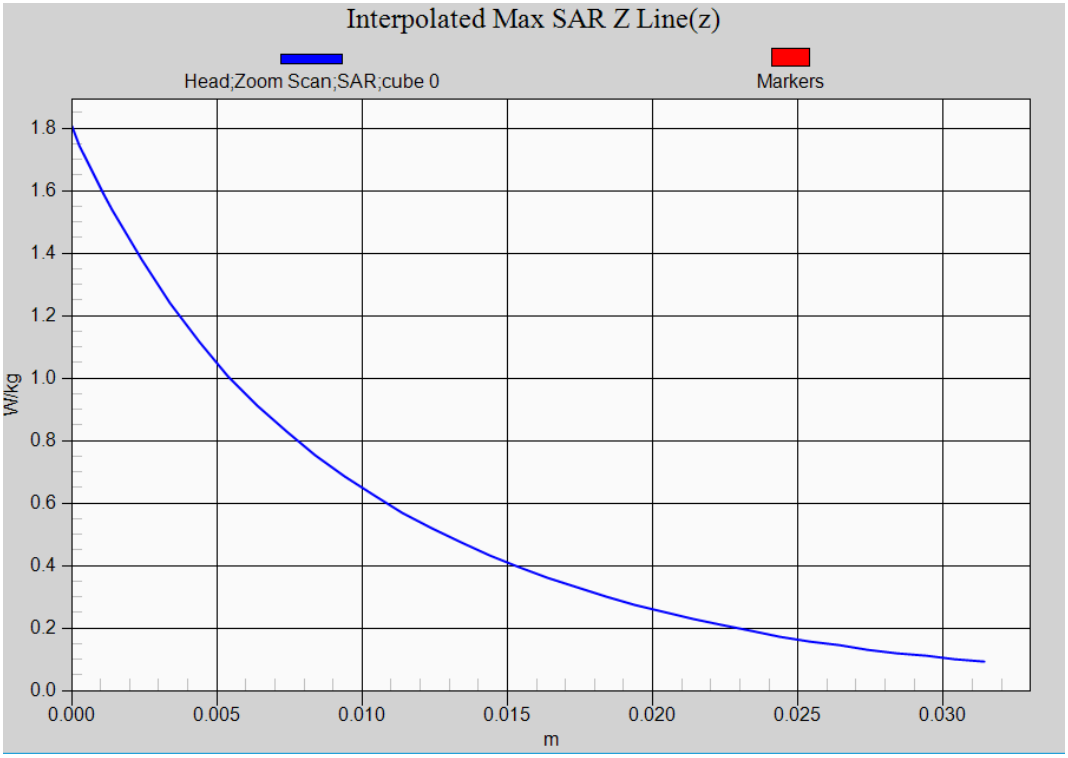
**Configuration/Head/Area Scan (8x11x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.24 W/kg

**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 33.34 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 1.81 W/kg
**SAR(1 g) = 1.06 W/kg; SAR(10 g) = 0.597 W/kg**
Maximum value of SAR (measured) = 1.54 W/kg



## WCDMA_Band 4_RMC EUT Bottom_10mm_Body, Z-Axis plot

## Channel: 1312



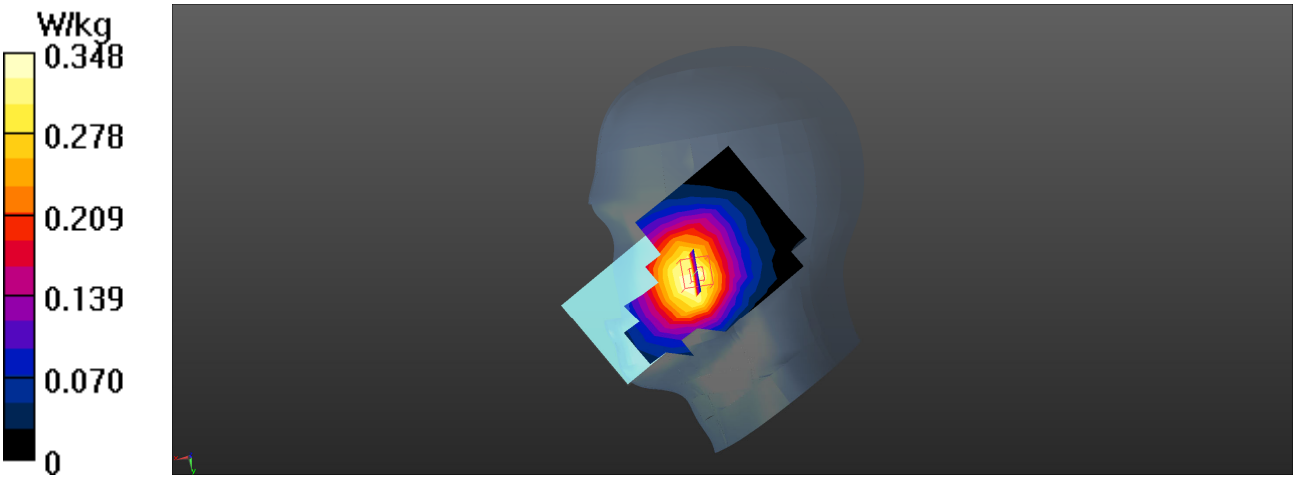
Test Laboratory: DEKRA Date: 2022/12/18

**20_WCDMA_BAND 5_RMC_4233_Right-Check**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, FCC WCDMA_Band-5; Frequency: 846.6 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 846.6 MHz; $\sigma$ = 0.92 S/m; $\varepsilon_r$ = 40.49; $\rho$ = 1000 kg/m$^3$
Phantom section: Right Section
Ambient Temperature (°C) : 23.2, Liquid Temperature (°C) : 22.1
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(10.05, 10.05, 10.05); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

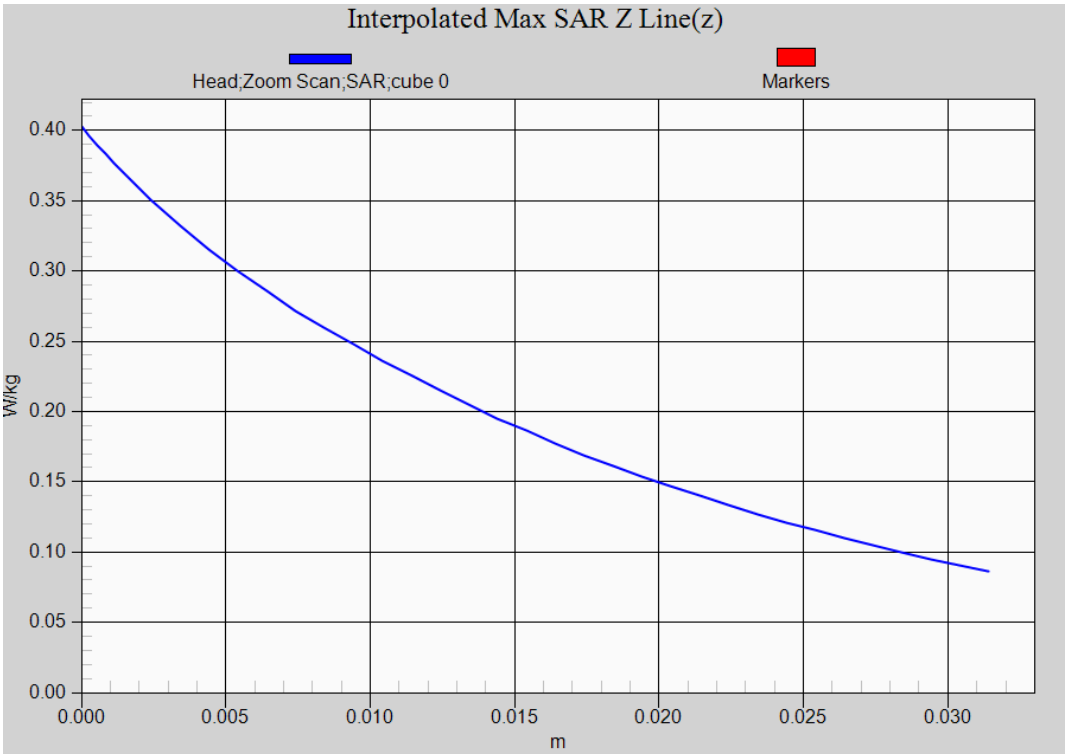
**Configuration/Head/Area Scan (8x14x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.348 W/kg

**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.629 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.402 W/kg
**SAR(1 g) = 0.311 W/kg; SAR(10 g) = 0.235 W/kg**
Maximum value of SAR (measured) = 0.367 W/kg



## WCDMA_Band 5_RMC EUT Right-Check_0mm_Head, Z-Axis plot

## Channel: 4233



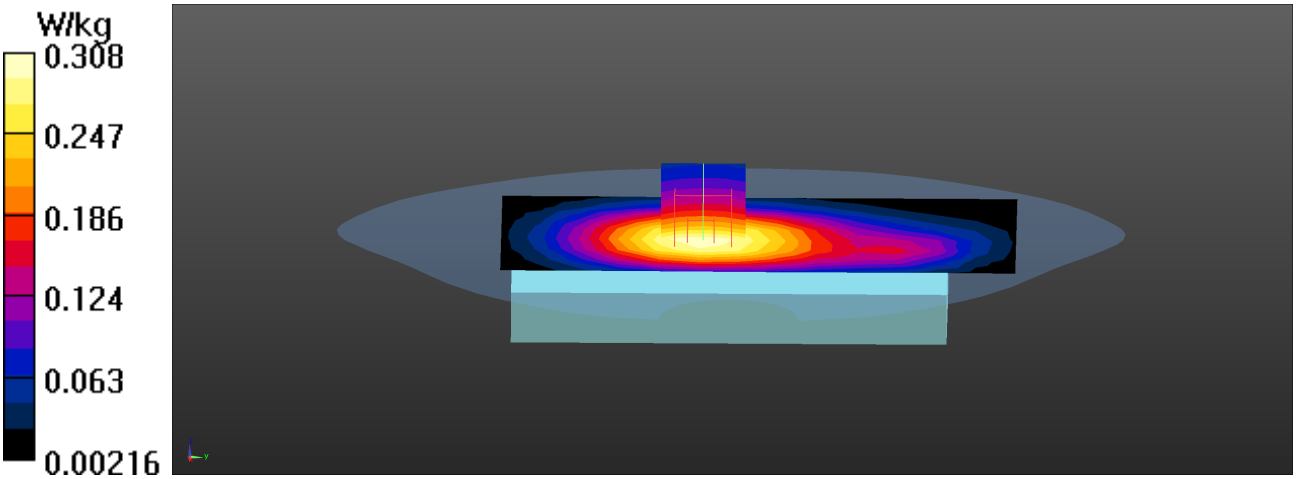
Test Laboratory: DEKRA Date: 2022/12/18

**21_WCDMA_BAND 5_RMC_4183_Front_10mm**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, FCC WCDMA_Band-5; Frequency: 836.6 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 836.6 MHz; $\sigma$ = 0.91 S/m; $\varepsilon_r$ = 40.62; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Ambient Temperature (°C) : 23.2, Liquid Temperature (°C) : 22.1
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(10.05, 10.05, 10.05); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

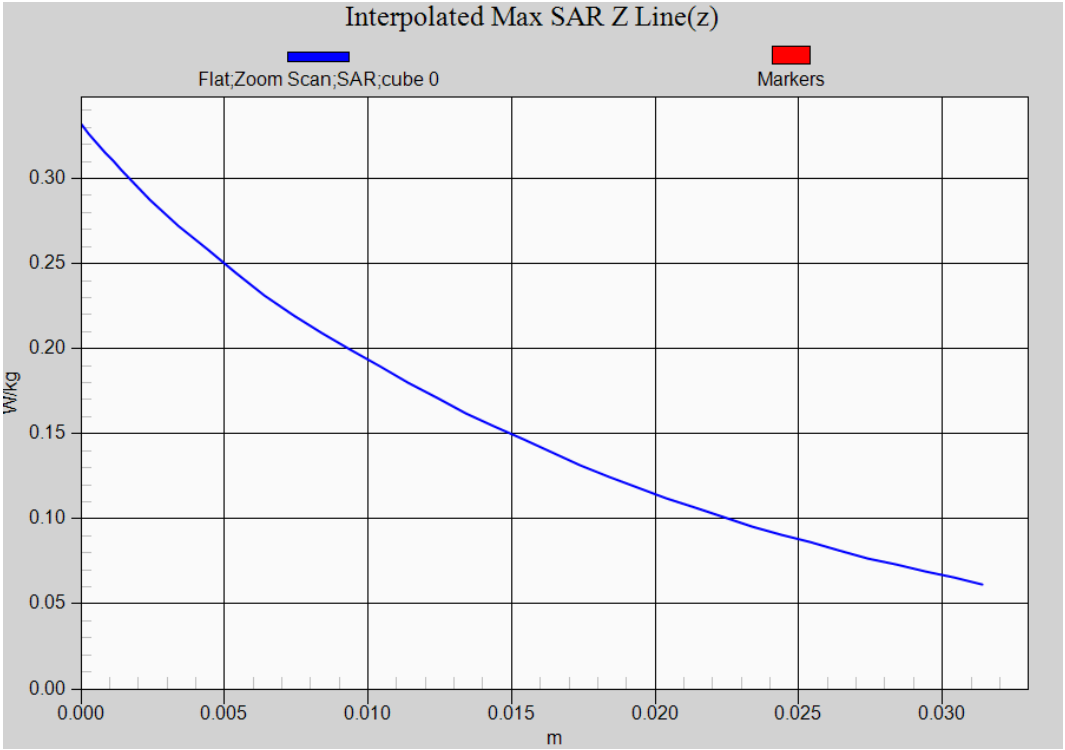
**Configuration/Flat/Area Scan (8x14x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.308 W/kg

**Configuration/Flat/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 19.15 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.332 W/kg
**SAR(1 g) = 0.253 W/kg; SAR(10 g) = 0.190 W/kg**
Maximum value of SAR (measured) = 0.305 W/kg



## WCDMA_Band 5_RMC EUT Front_10mm_Body, Z-Axis plot

## Channel: 4138



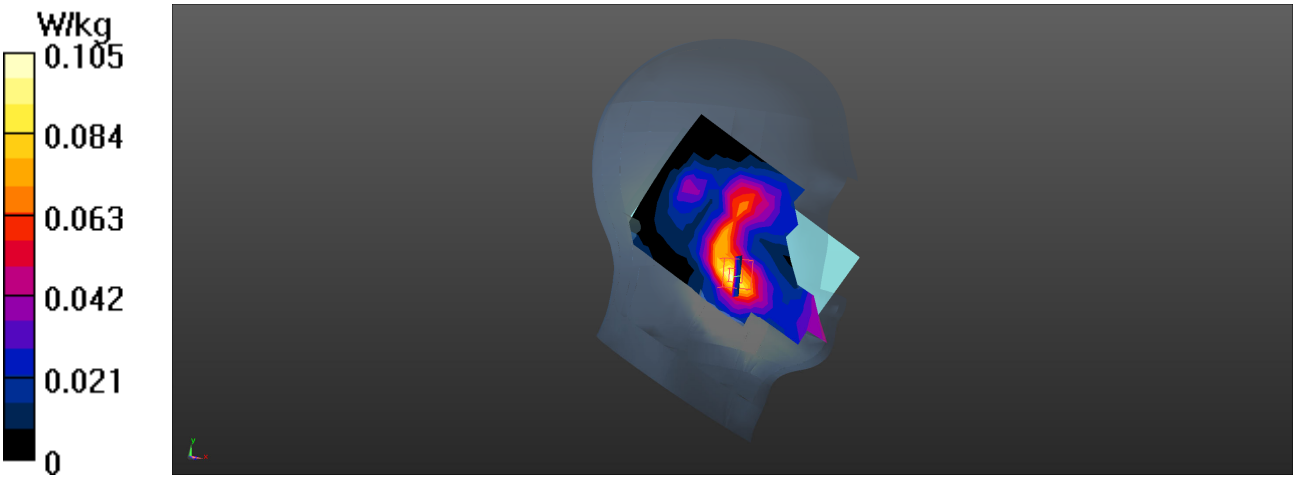
Test Laboratory: DEKRA Date: 2022/12/17

**22_LTE_Band7_QPSK_20M_20850_1RB-50_Left-Check**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, LTE Band7; Frequency: 2510 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 2510 MHz; $\sigma$ = 1.91 S/m; $\varepsilon_r$ = 38.97; $\rho$ = 1000 kg/m$^3$
Phantom section: Left Section
Ambient Temperature (°C) : 22.8, Liquid Temperature (°C) : 21.7
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(7.38, 7.38, 7.38); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

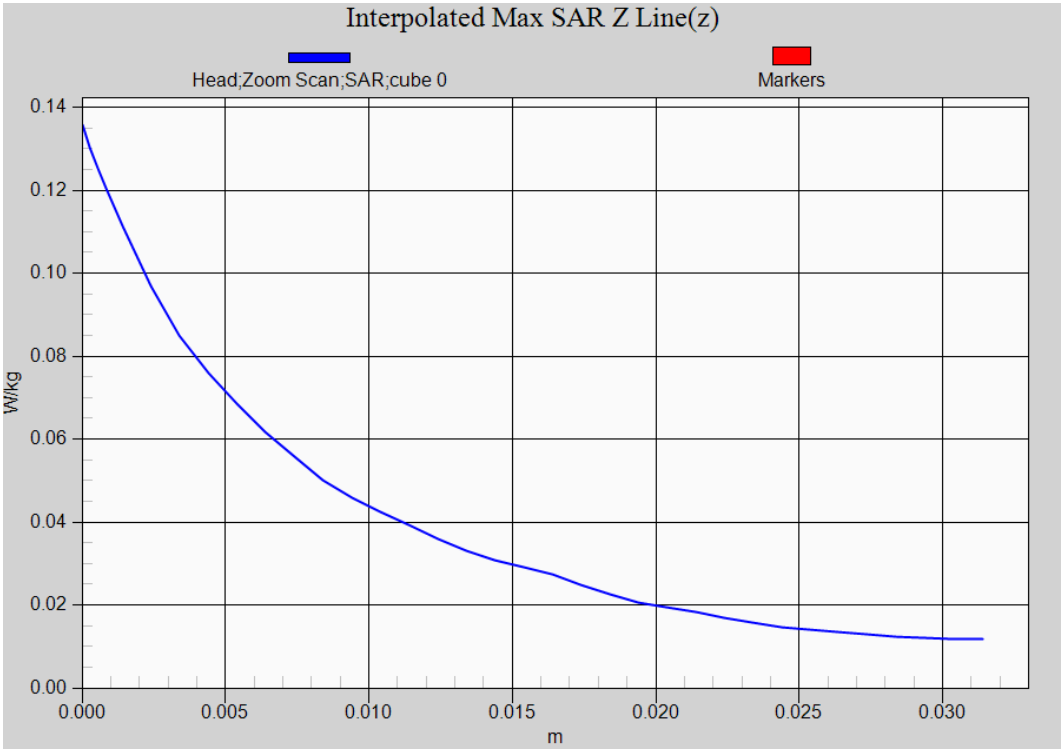
**Configuration/Head/Area Scan (10x17x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.105 W/kg

**Configuration/Head/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.250 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.136 W/kg
**SAR(1 g) = 0.070 W/kg; SAR(10 g) = 0.040 W/kg**
Maximum value of SAR (measured) = 0.111 W/kg



**LTE Band 7 QPSK 20M EUT 1RB-50_Left-Check_0mm_Head, Z-Axis plot**

**Channel: 20850**



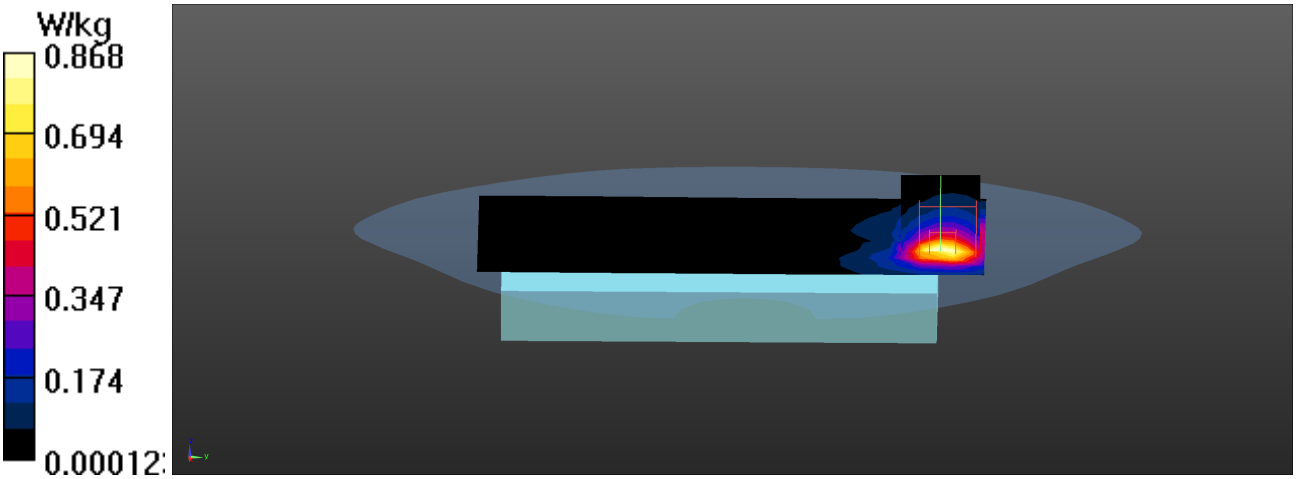
Test Laboratory: DEKRA Date: 2022/12/17

**23_LTE_Band7_QPSK_20M_21100_1RB-50_Back_10mm**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, LTE Band7; Frequency: 2535 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 2535 MHz; $\sigma$ = 1.92 S/m; $\varepsilon_r$ = 38.67; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Ambient Temperature (°C) : 22.8, Liquid Temperature (°C) : 21.7
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(7.38, 7.38, 7.38); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

**Configuration/Flat/Area Scan (10x17x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.868 W/kg

**Configuration/Flat/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 24.41 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 1.18 W/kg
**SAR(1 g) = 0.621 W/kg; SAR(10 g) = 0.314 W/kg**
Maximum value of SAR (measured) = 0.974 W/kg



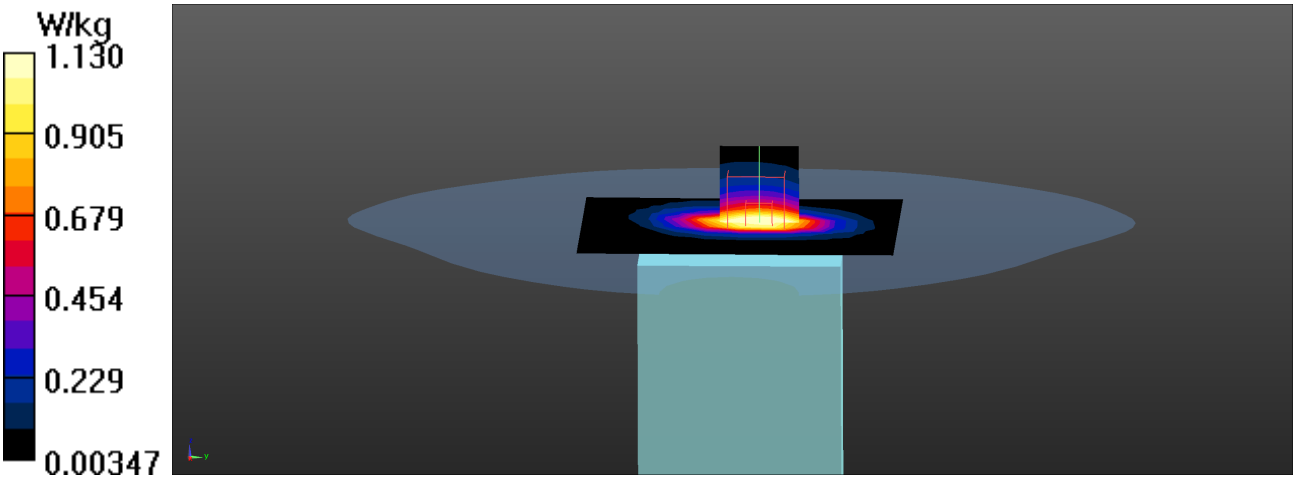
Test Laboratory: DEKRA Date: 2022/12/17

**24_LTE_Band7_QPSK_20M_20850_1RB-50_Bottom_10mm**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, LTE Band7; Frequency: 2510 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 2510 MHz; $\sigma$ = 1.91 S/m; $\varepsilon_r$ = 38.97; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Ambient Temperature (°C) : 22.8, Liquid Temperature (°C) : 21.7
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(7.38, 7.38, 7.38); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

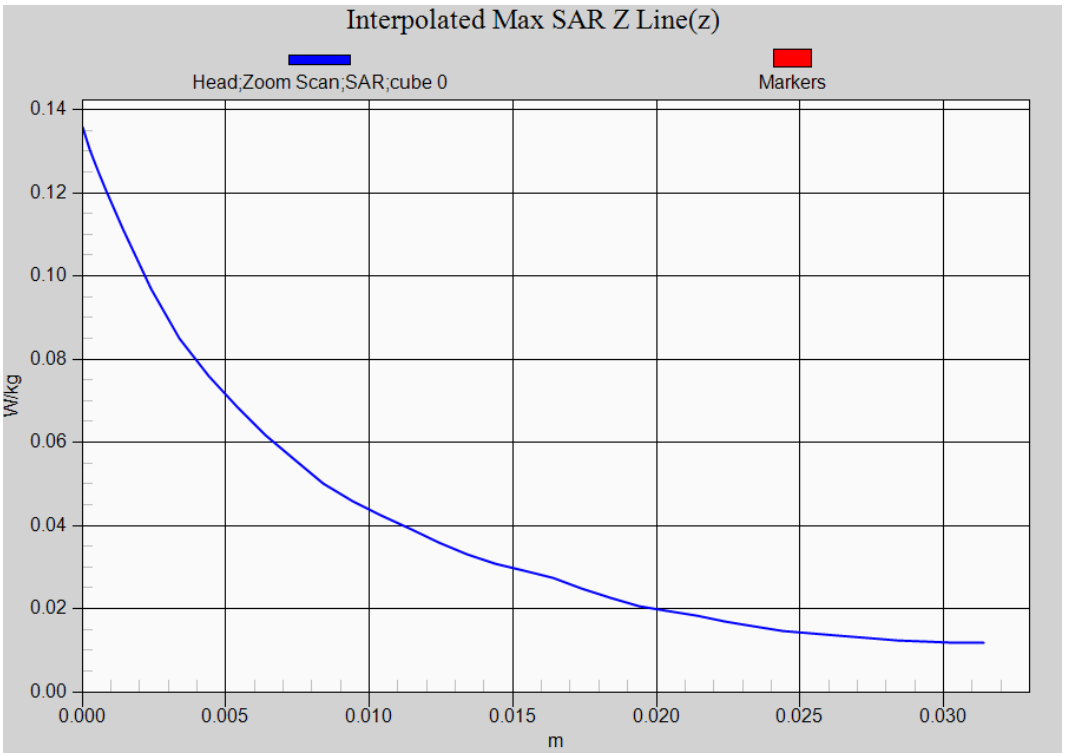
**Configuration/Flat/Area Scan (7x10x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.13 W/kg

**Configuration/Flat/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 27.19 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 1.71 W/kg
**SAR(1 g) = 0.900 W/kg; SAR(10 g) = 0.463 W/kg**
Maximum value of SAR (measured) = 1.40 W/kg



## LTE Band 7 QPSK 20M EUT 1RB-50_Bottom_10mm_Body, Z-Axis plot

## Channel: 20850



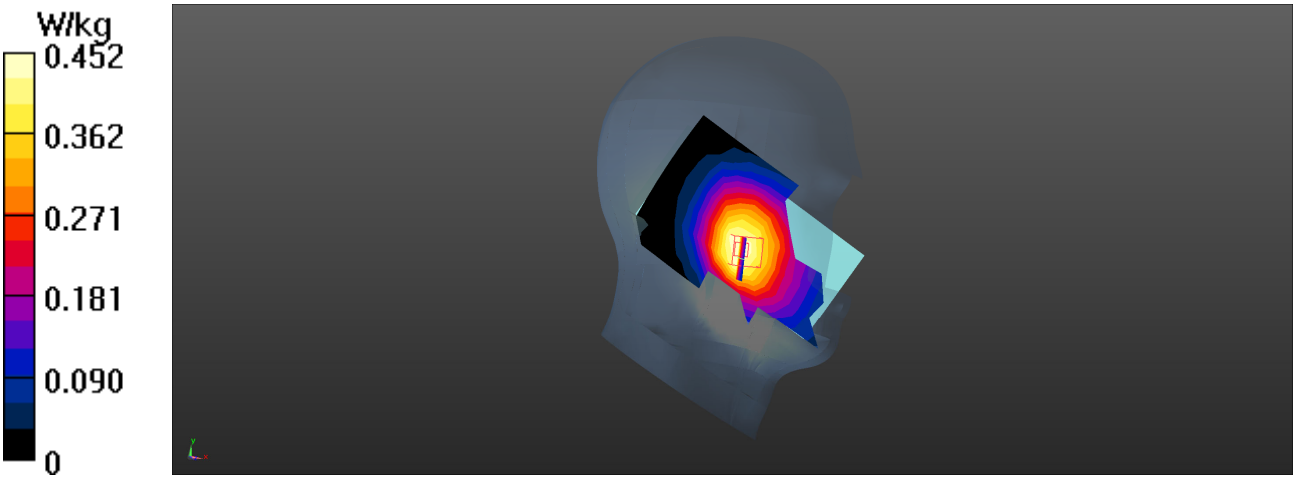
Test Laboratory: DEKRA Date: 2022/12/18

**25_LTE_Band12_QPSK_10M_23130_1RB-25_Left-Check**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, LTE Band12; Frequency: 711 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 711 MHz; $\sigma$ = 0.88 S/m; $\varepsilon_r$ = 42.24; $\rho$ = 1000 kg/m$^3$
Phantom section: Left Section
Ambient Temperature (°C) : 23.2, Liquid Temperature (°C) : 22.1
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(10.47, 10.47, 10.47); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

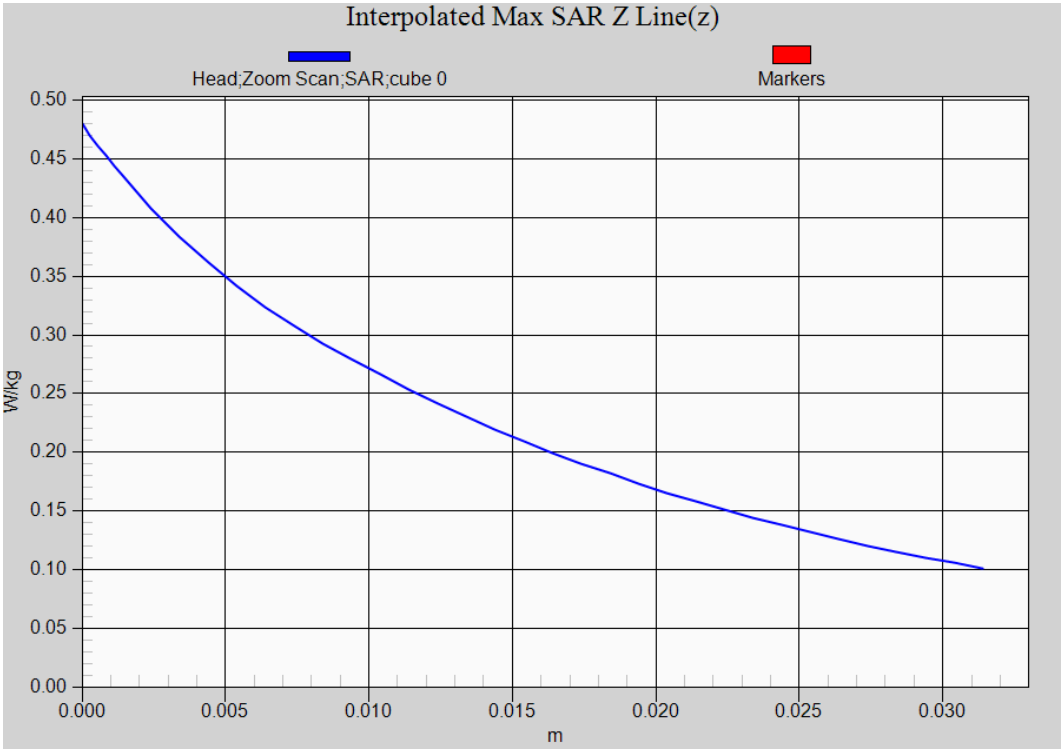
**Configuration/Head/Area Scan (8x14x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.452 W/kg

**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.141 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.480 W/kg
**SAR(1 g) = 0.359 W/kg; SAR(10 g) = 0.271 W/kg**
Maximum value of SAR (measured) = 0.433 W/kg



## LTE Band 12 QPSK 10M EUT 1RB-25_Left-Check_0mm_Head, Z-Axis plot

## Channel: 23130



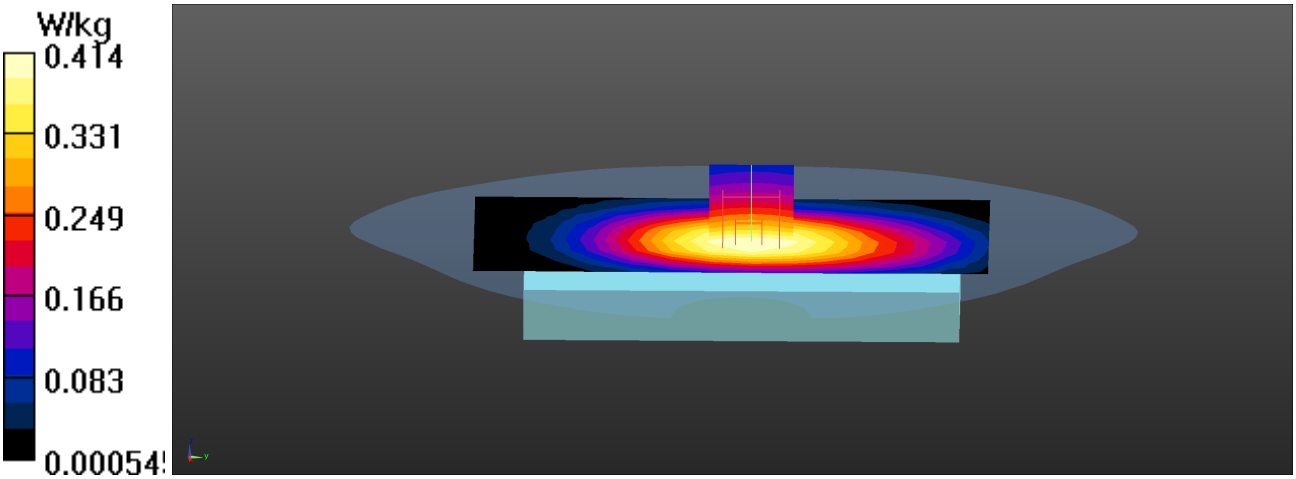
Test Laboratory: DEKRA Date: 2022/12/18

**26_LTE_Band12_QPSK_10M_23130_1RB-25_Front_10mm**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, LTE Band12; Frequency: 711 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 711 MHz; $\sigma$ = 0.88 S/m; $\varepsilon_r$ = 42.24; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Ambient Temperature (°C) : 23.2, Liquid Temperature (°C) : 22.1
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(10.47, 10.47, 10.47); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

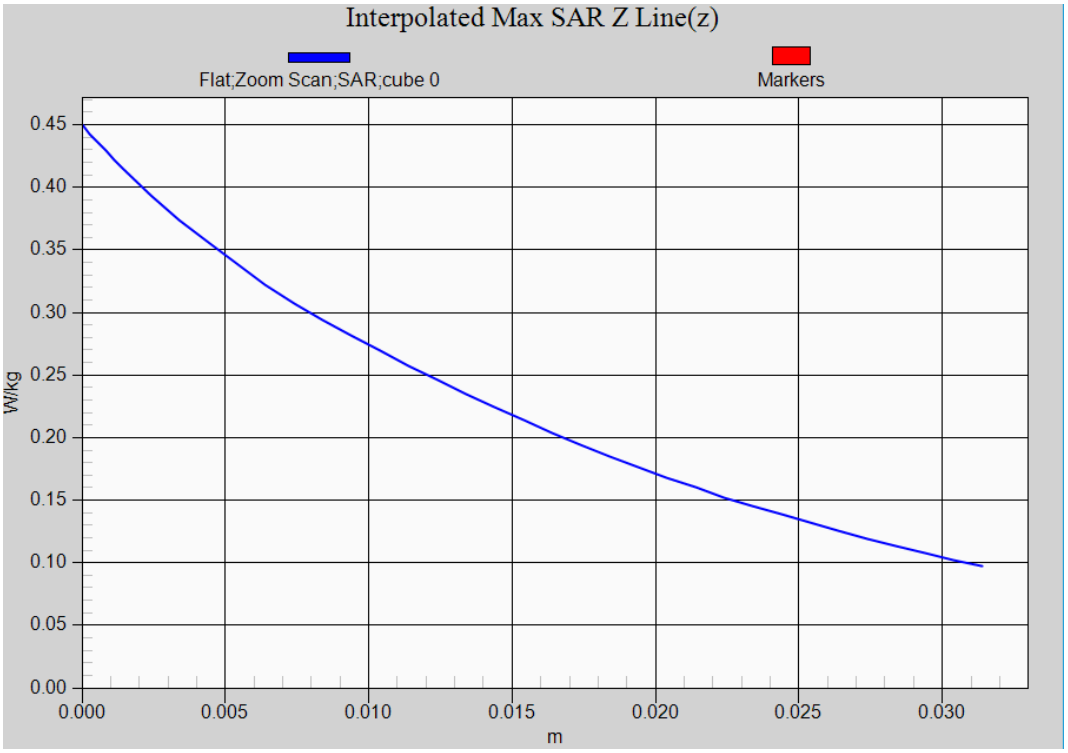
**Configuration/Flat/Area Scan (8x14x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.414 W/kg

**Configuration/Flat/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.88 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.450 W/kg
**SAR(1 g) = 0.349 W/kg; SAR(10 g) = 0.268 W/kg**
Maximum value of SAR (measured) = 0.416 W/kg



## LTE Band 12 QPSK 10M EUT 1RB-25_ Front_10mm _Body, Z-Axis plot

## Channel: 23130



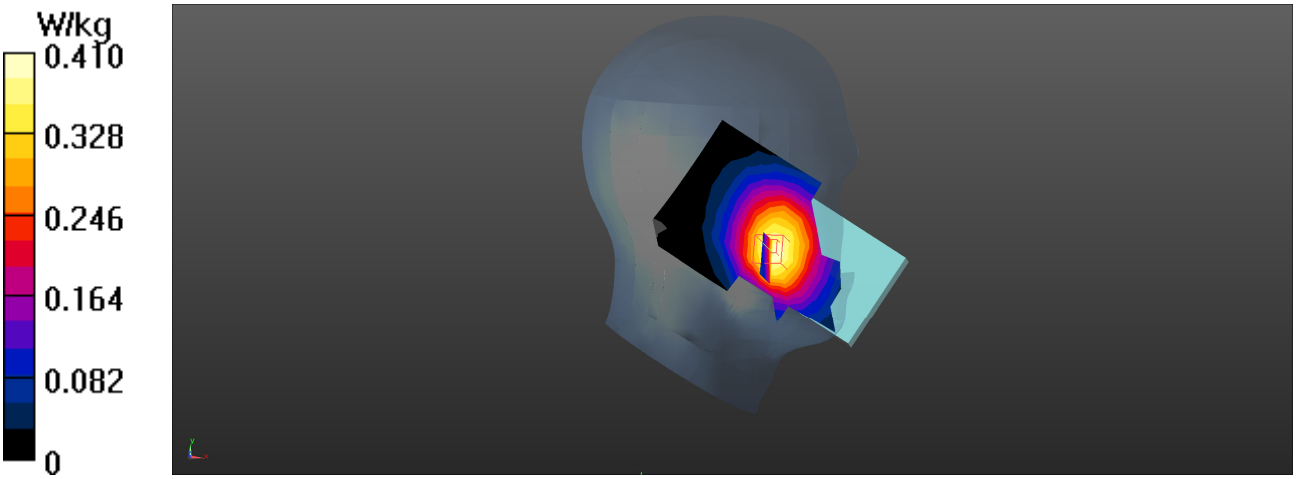
Test Laboratory: DEKRA Date: 2022/12/18

**27_LTE_Band13_QPSK_10M_23230_1RB-25_Left-Check**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, LTE Band13; Frequency: 782 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 782 MHz; $\sigma$ = 0.89 S/m; $\varepsilon_r$ = 41.32; $\rho$ = 1000 kg/m$^3$
Phantom section: Left Section
Ambient Temperature (°C) : 23.2, Liquid Temperature (°C) : 22.1
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(10.47, 10.47, 10.47); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

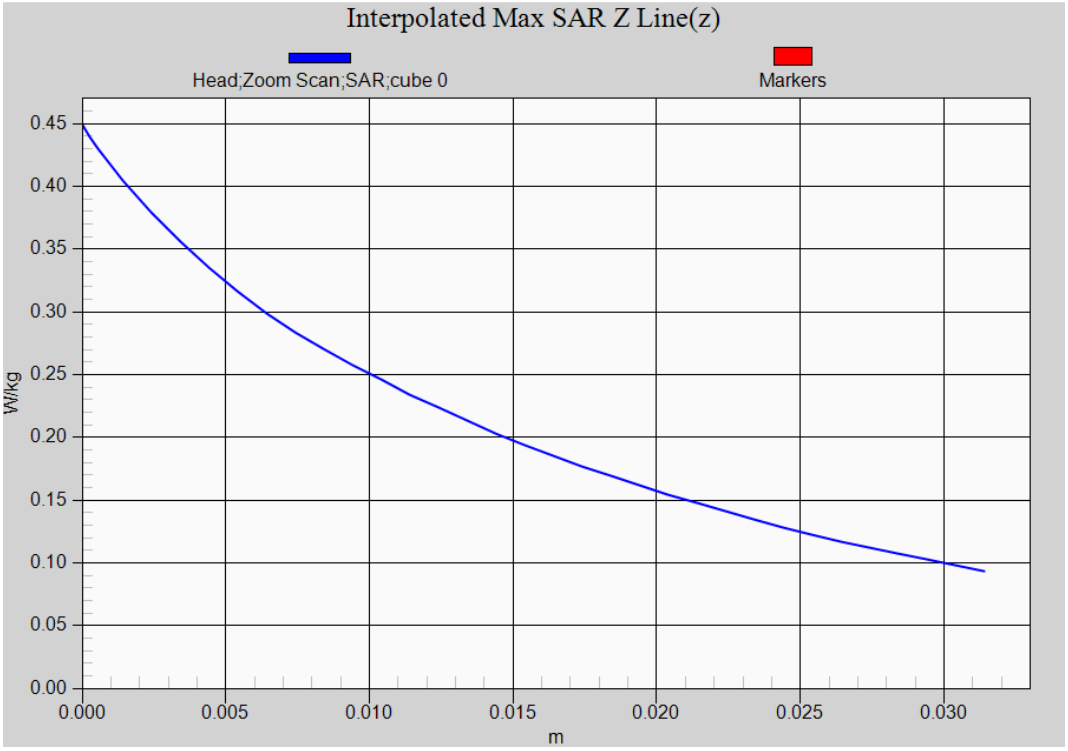
**Configuration/Head/Area Scan (8x14x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.410 W/kg

**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.680 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.448 W/kg
**SAR(1 g) = 0.336 W/kg; SAR(10 g) = 0.243 W/kg**
Maximum value of SAR (measured) = 0.407 W/kg



## LTE Band 13 QPSK 10M EUT 1RB-25_Left-Check_0mm_Head, Z-Axis plot

## Channel: 23230



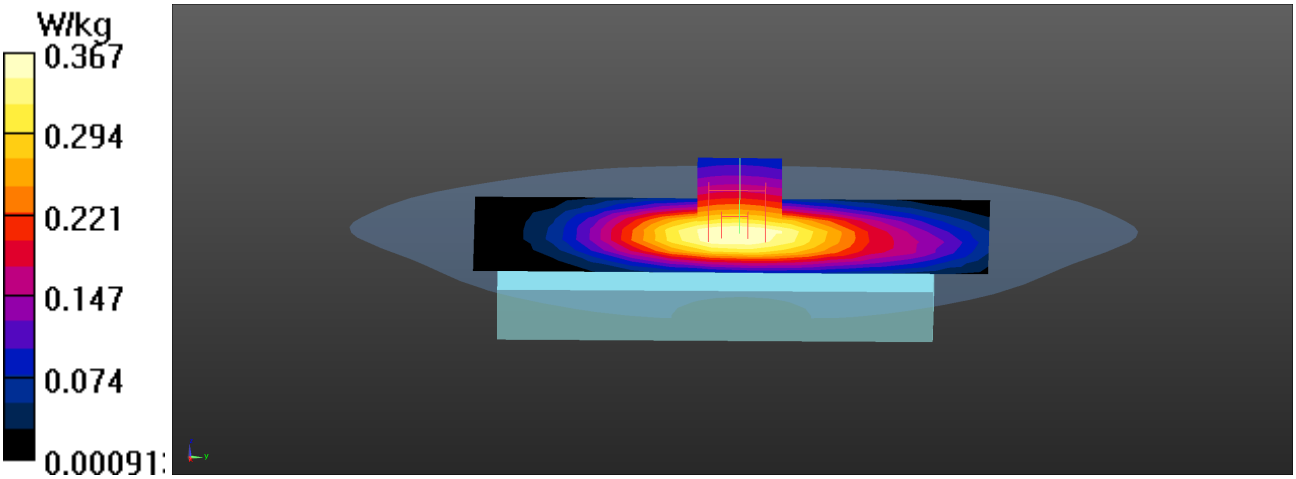
Test Laboratory: DEKRA Date: 2022/12/18

**28_LTE_Band13_QPSK_10M_23230_1RB-25_Front_10mm**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, LTE Band13; Frequency: 782 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 782 MHz; $\sigma$ = 0.89 S/m; $\varepsilon_r$ = 41.32; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Ambient Temperature (°C) : 23.2, Liquid Temperature (°C) : 22.1
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(10.47, 10.47, 10.47); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

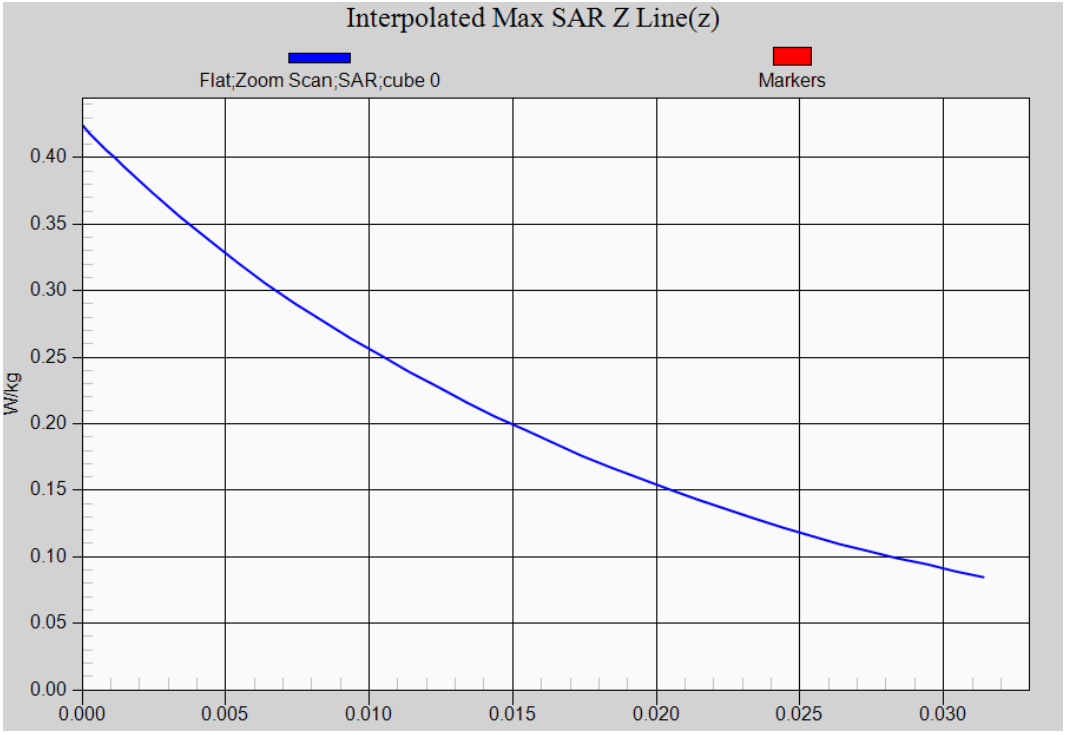
**Configuration/Flat/Area Scan (8x14x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.367 W/kg

**Configuration/Flat/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 21.44 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 0.424 W/kg
**SAR(1 g) = 0.331 W/kg; SAR(10 g) = 0.250 W/kg**
Maximum value of SAR (measured) = 0.394 W/kg



## LTE Band 13 QPSK 10M EUT 1RB-25_Front_10mm_Body, Z-Axis plot

## Channel: 23230



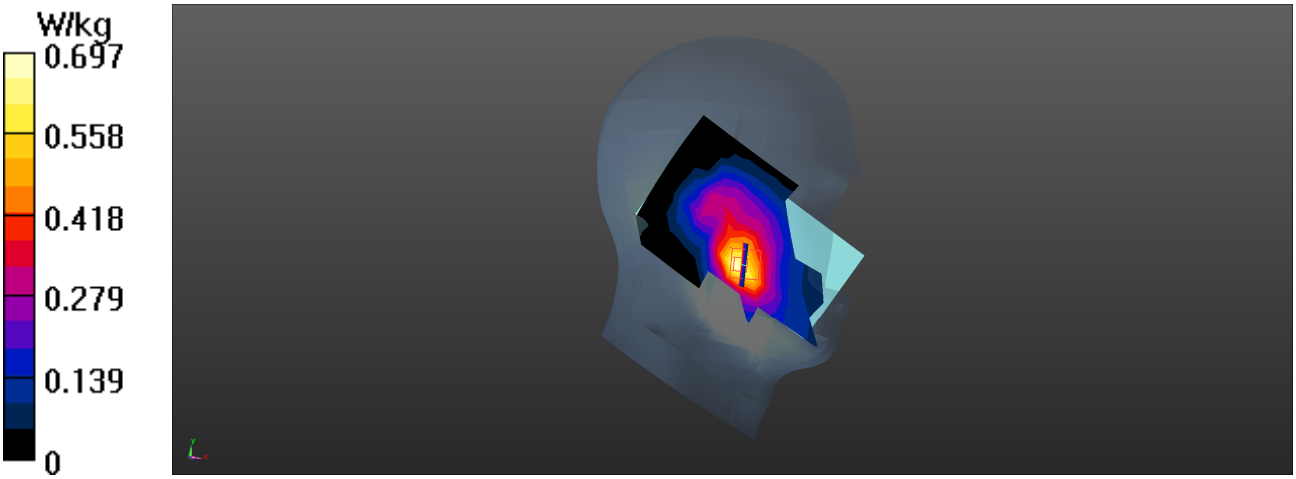
Test Laboratory: DEKRA Date: 2022/12/17

**29_LTE_Band25_QPSK_20M_26590_1RB-50_Left-Check**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, LTE Band25; Frequency: 1905 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 1905 MHz; $\sigma$ = 1.38 S/m; $\varepsilon_r$ = 39.54; $\rho$ = 1000 kg/m$^3$
Phantom section: Left Section
Ambient Temperature (°C) : 22.8, Liquid Temperature (°C) : 21.7
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.12, 8.12, 8.12); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

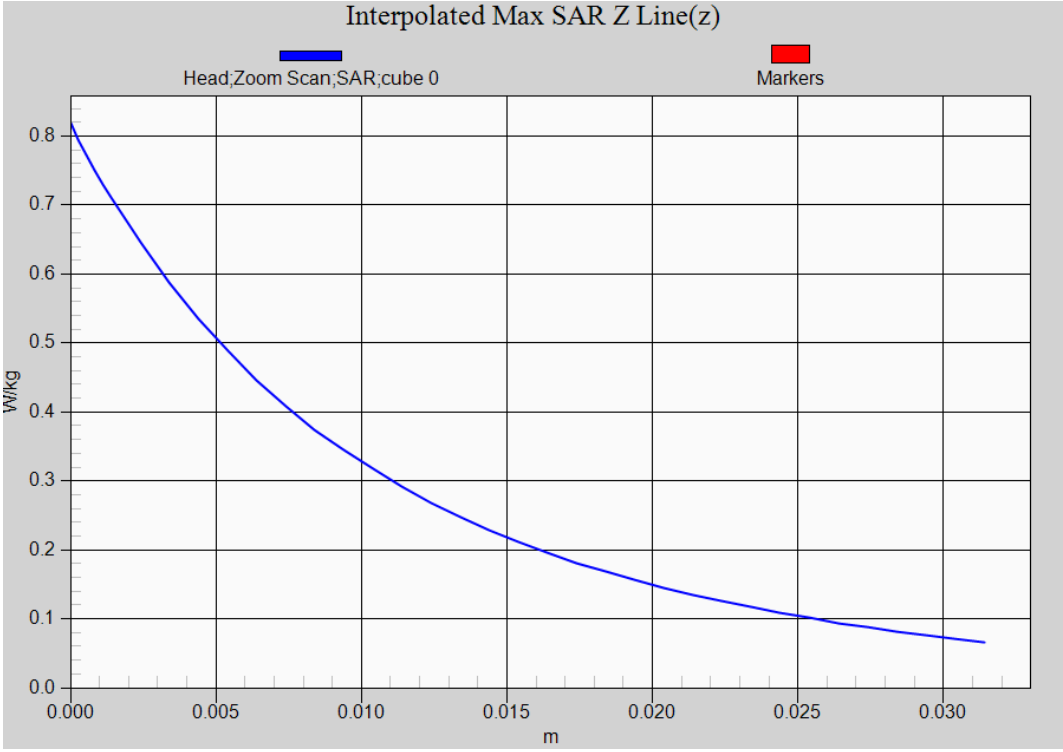
**Configuration/Head/Area Scan (8x14x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.697 W/kg

**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.121 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.818 W/kg
**SAR(1 g) = 0.522 W/kg; SAR(10 g) = 0.324 W/kg**
Maximum value of SAR (measured) = 0.711 W/kg



## LTE Band 25 QPSK 20M EUT 1RB-50_Left-Check_0mm_Head, Z-Axis plot

## Channel: 26590



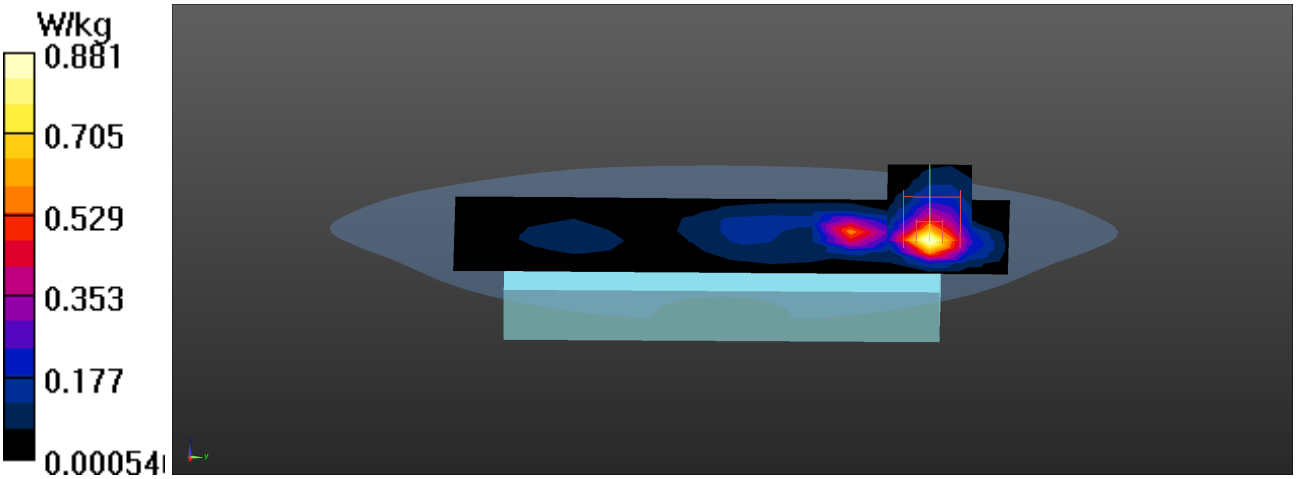
Test Laboratory: DEKRA Date: 2022/12/17

**30_LTE_Band25_QPSK_20M_26365_1RB-50_Back_10mm**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, LTE Band25; Frequency: 1882.5 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 1882.5 MHz; $\sigma$ = 1.37 S/m; $\varepsilon_r$ = 40.18; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Ambient Temperature (°C) : 22.8, Liquid Temperature (°C) : 21.7
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.12, 8.12, 8.12); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

**Configuration/Flat/Area Scan (8x15x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.881 W/kg

**Configuration/Flat/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.61 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 1.13 W/kg
**SAR(1 g) = 0.669 W/kg; SAR(10 g) = 0.356 W/kg**
Maximum value of SAR (measured) = 0.971 W/kg



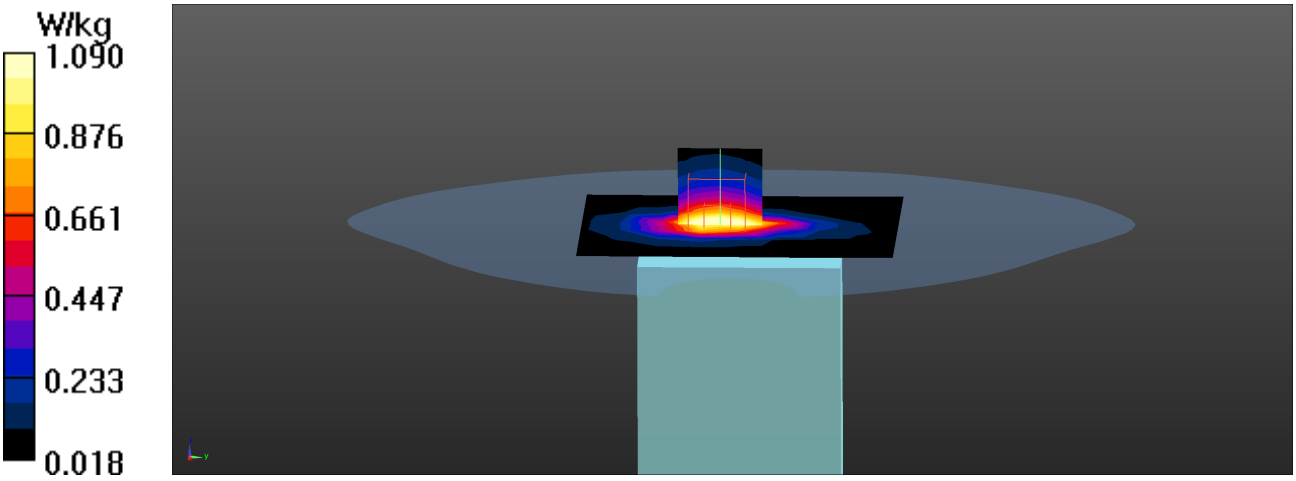
Test Laboratory: DEKRA Date: 2022/12/17

**31_LTE_Band25_QPSK_20M_26590_1RB-50_Bottom_10mm**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, LTE Band25; Frequency: 1905 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 1905 MHz; $\sigma$ = 1.38 S/m; $\varepsilon_r$ = 39.54; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Ambient Temperature (°C) : 22.8, Liquid Temperature (°C) : 21.7
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.12, 8.12, 8.12); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

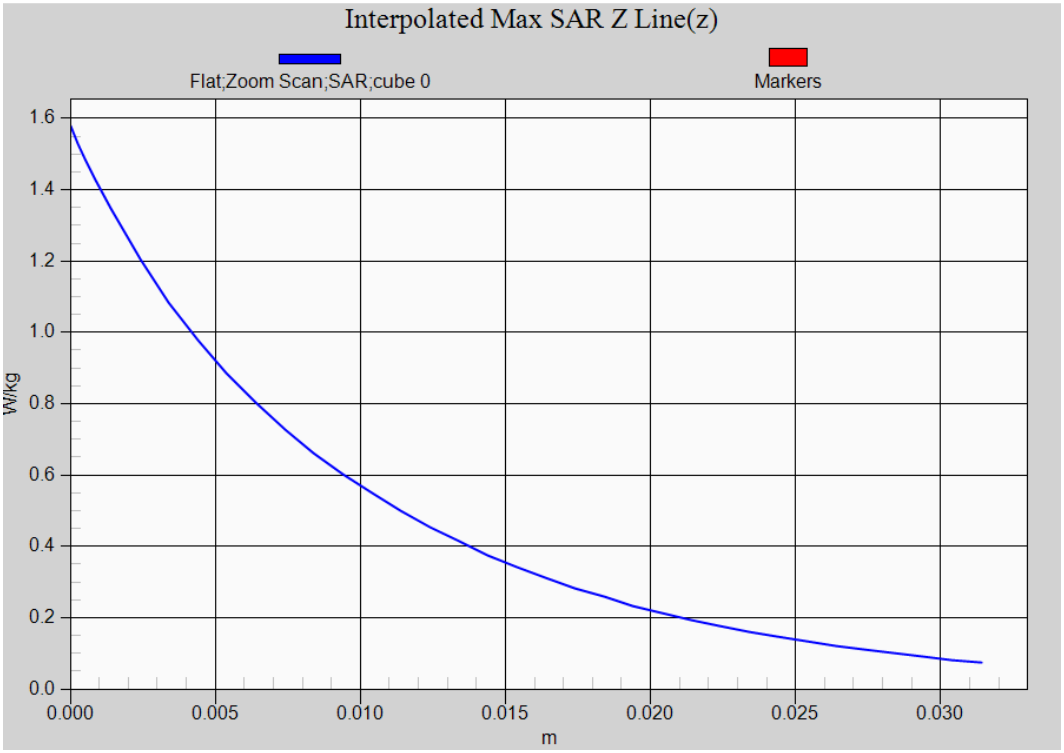
**Configuration/Flat/Area Scan (8x9x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.09 W/kg

**Configuration/Flat/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 32.08 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.58 W/kg
**SAR(1 g) = 0.920 W/kg; SAR(10 g) = 0.512 W/kg**
Maximum value of SAR (measured) = 1.35 W/kg



## LTE Band 25 QPSK 20M EUT 1RB-50_Bottom_10mm _Body, Z-Axis plot

## Channel: 26590



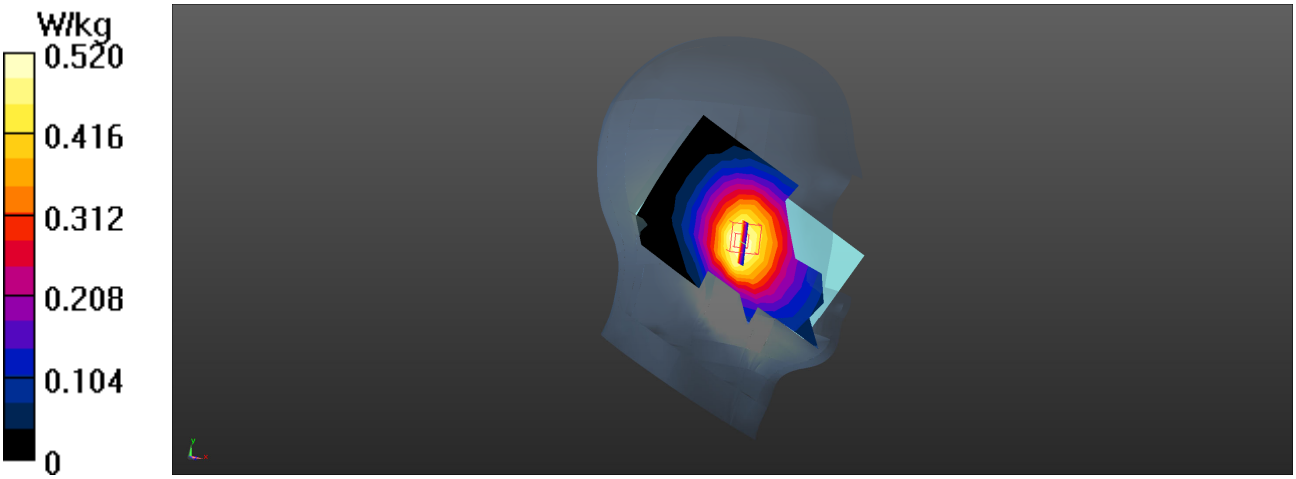
Test Laboratory: DEKRA Date: 2022/12/18

**32_LTE_Band26_QPSK_15M_26915_1RB-36_Left-Check**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, LTE Band26; Frequency: 836.5 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 836.5 MHz; $\sigma$ = 0.91 S/m; $\varepsilon_r$ = 40.62; $\rho$ = 1000 kg/m$^3$
Phantom section: Left Section
Ambient Temperature (°C) : 23.2, Liquid Temperature (°C) : 22.1
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(10.05, 10.05, 10.05); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

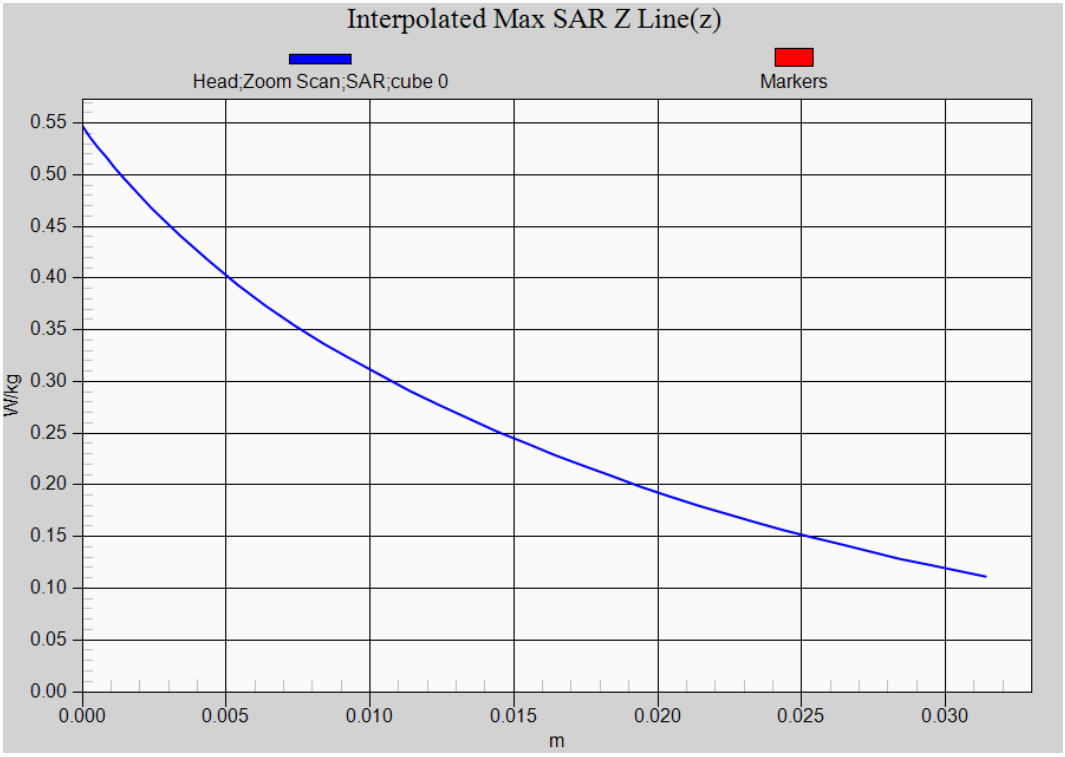
**Configuration/Head/Area Scan (8x14x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.520 W/kg

**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.124 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.546 W/kg
**SAR(1 g) = 0.411 W/kg; SAR(10 g) = 0.309 W/kg**
Maximum value of SAR (measured) = 0.499 W/kg



## LTE Band 26 QPSK 15M EUT 1RB-36_Left-Check_0mm_Head, Z-Axis plot

## Channel: 26915



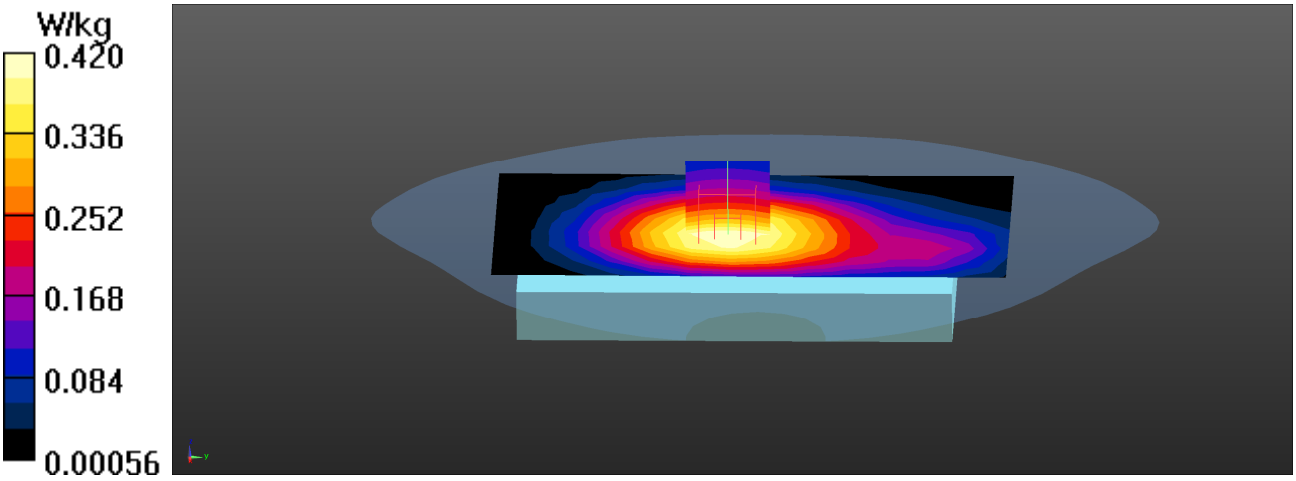
Test Laboratory: DEKRA Date: 2022/12/18

**33_LTE_Band26_QPSK_15M_26915_1RB-36_Front_10mm**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, LTE Band26; Frequency: 836.5 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 836.5 MHz; $\sigma$ = 0.91 S/m; $\varepsilon_r$ = 40.62; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Ambient Temperature (°C) : 23.2, Liquid Temperature (°C) : 22.1
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(10.05, 10.05, 10.05); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

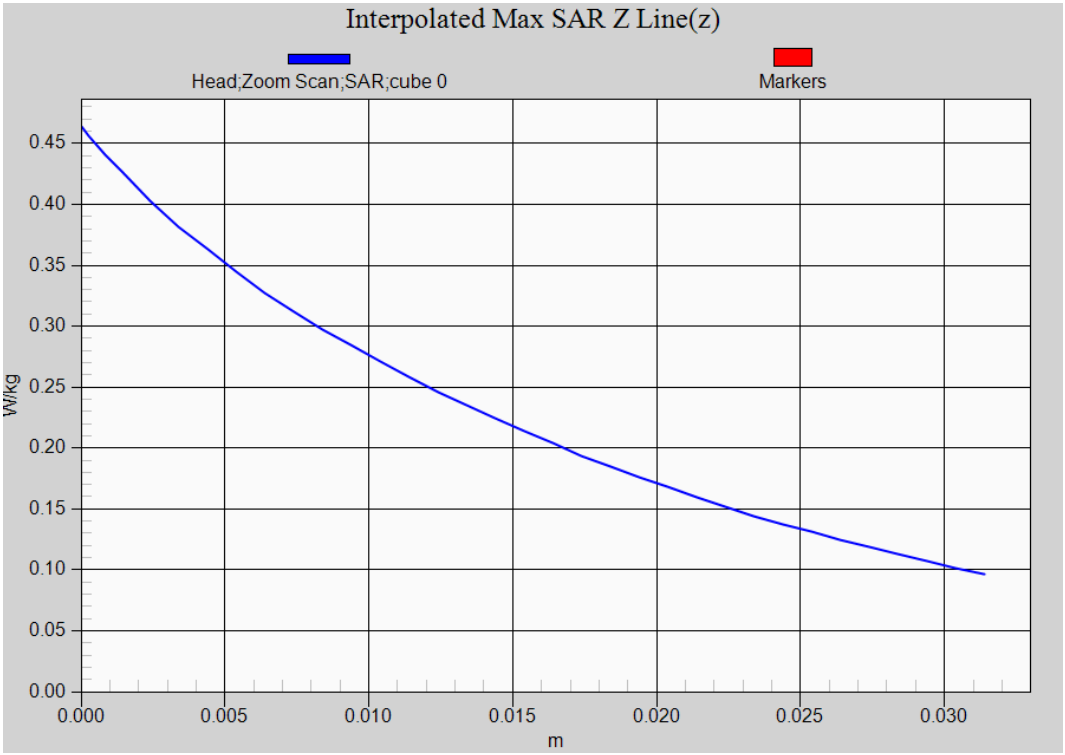
**Configuration/Head/Area Scan (8x14x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.420 W/kg

**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 21.93 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.464 W/kg
**SAR(1 g) = 0.355 W/kg; SAR(10 g) = 0.270 W/kg**
Maximum value of SAR (measured) = 0.427 W/kg



## LTE Band 26 QPSK 15M EUT 1RB-36_Front_10mm _Body, Z-Axis plot

## Channel: 26915



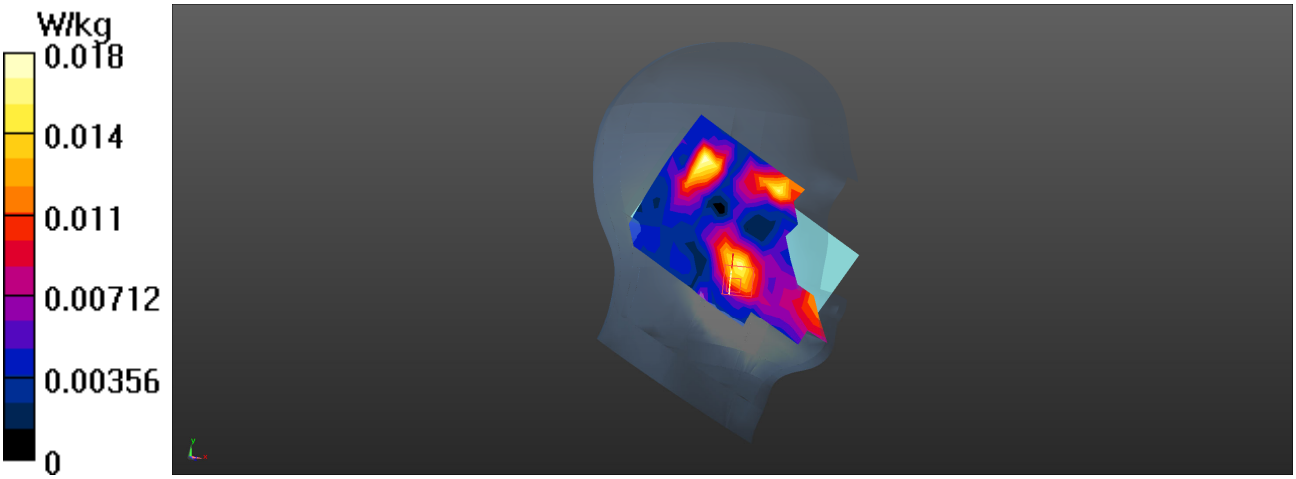
Test Laboratory: DEKRA Date: 2022/12/17

**34_LTE_Band41_QPSK_20M_40620_1RB-50_Left-Check**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, FCC LTE-TDD Band41; Frequency: 2593 MHz;
Communication System PAR: 2.014 dB
Medium parameters used: f = 2593 MHz; $\sigma$ = 1.95 S/m; $\varepsilon_r$ = 38.09; $\rho$ = 1000 kg/m$^3$
Phantom section: Left Section
Ambient Temperature (°C) : 22.8, Liquid Temperature (°C) : 21.7
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(7.38, 7.38, 7.38); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

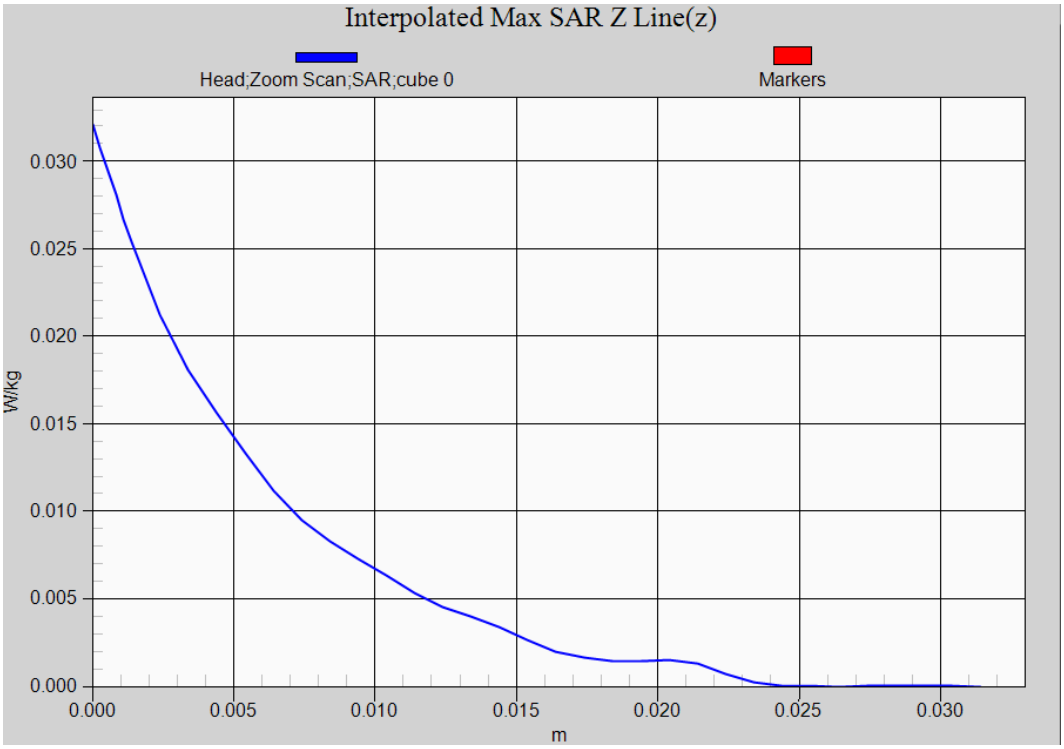
**Configuration/Head/Area Scan (10x17x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.0178 W/kg

**Configuration/Head/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.655 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.0320 W/kg
**SAR(1 g) = 0.017 W/kg; SAR(10 g) = 0.012 W/kg**
Maximum value of SAR (measured) = 0.0272 W/kg



## LTE Band 41 QPSK 20M EUT 1RB-50_Left-Check_0mm_Head, Z-Axis plot

## Channel: 40620



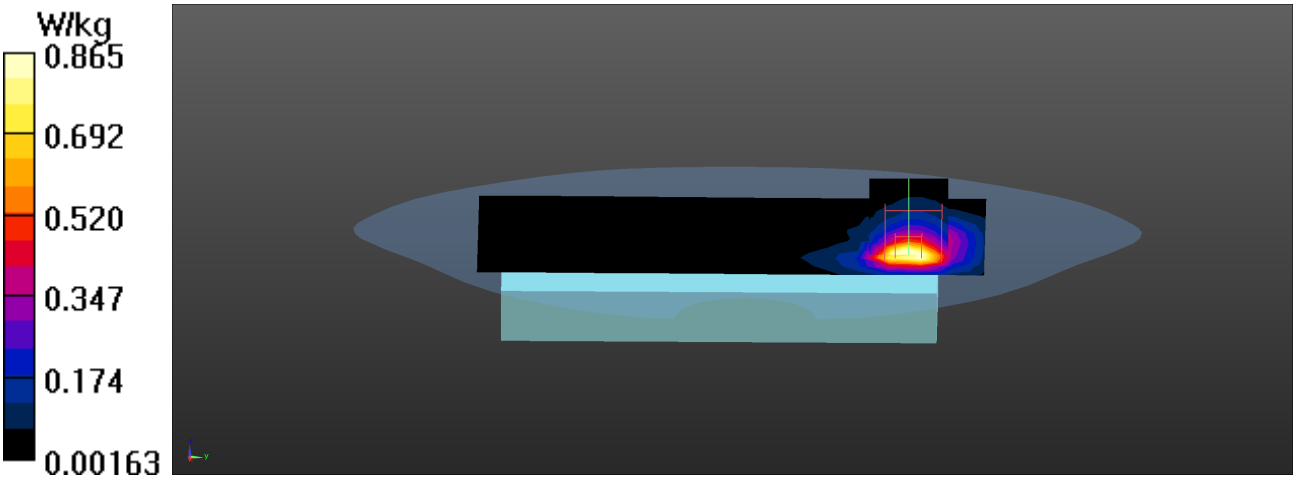
Test Laboratory: DEKRA Date: 2022/12/17

**35_LTE_Band41_QPSK_20M_40240_1RB-50_Back_10mm**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, FCC LTE-TDD Band41; Frequency: 2555 MHz;
Communication System PAR: 2.014 dB
Medium parameters used: f = 2555 MHz; $\sigma$ = 1.93 S/m; $\varepsilon_r$ = 38.44; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Ambient Temperature (°C) : 22.8, Liquid Temperature (°C) : 21.7
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(7.38, 7.38, 7.38); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

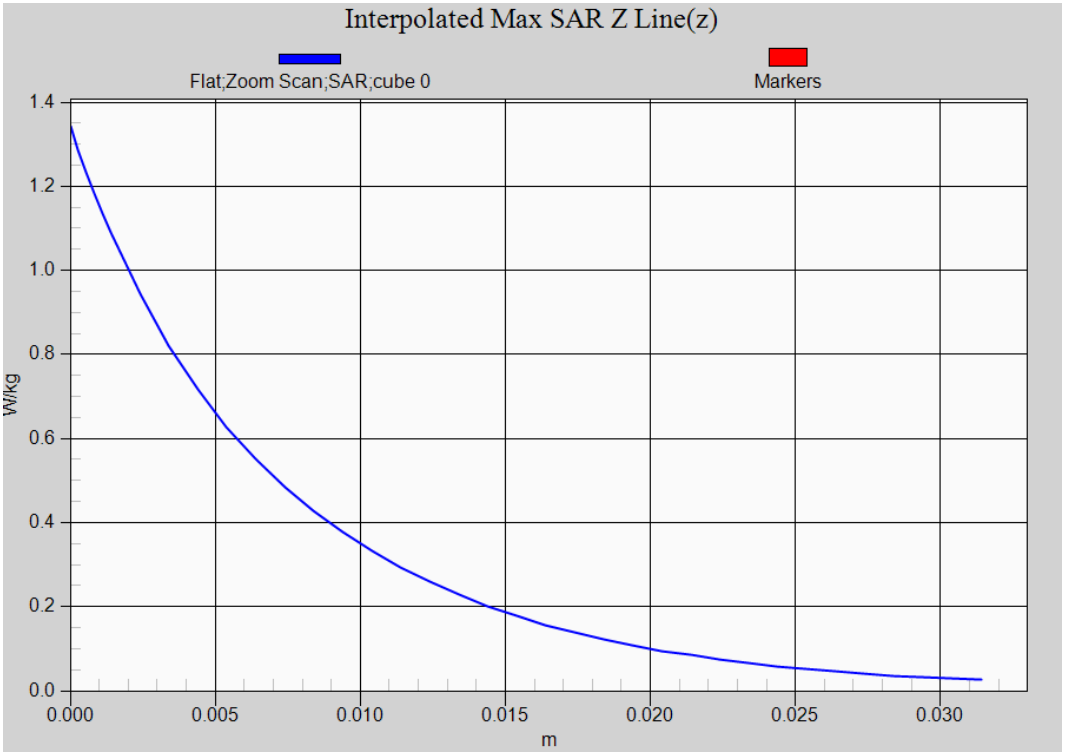
**Configuration/Flat/Area Scan (10x17x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.865 W/kg

**Configuration/Flat/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 24.73 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 1.31 W/kg
**SAR(1 g) = 0.656 W/kg; SAR(10 g) = 0.321 W/kg**
Maximum value of SAR (measured) = 1.06 W/kg



## LTE Band 41 QPSK 20M EUT 1RB-50_Back_10mm_Body, Z-Axis plot

## Channel: 40620



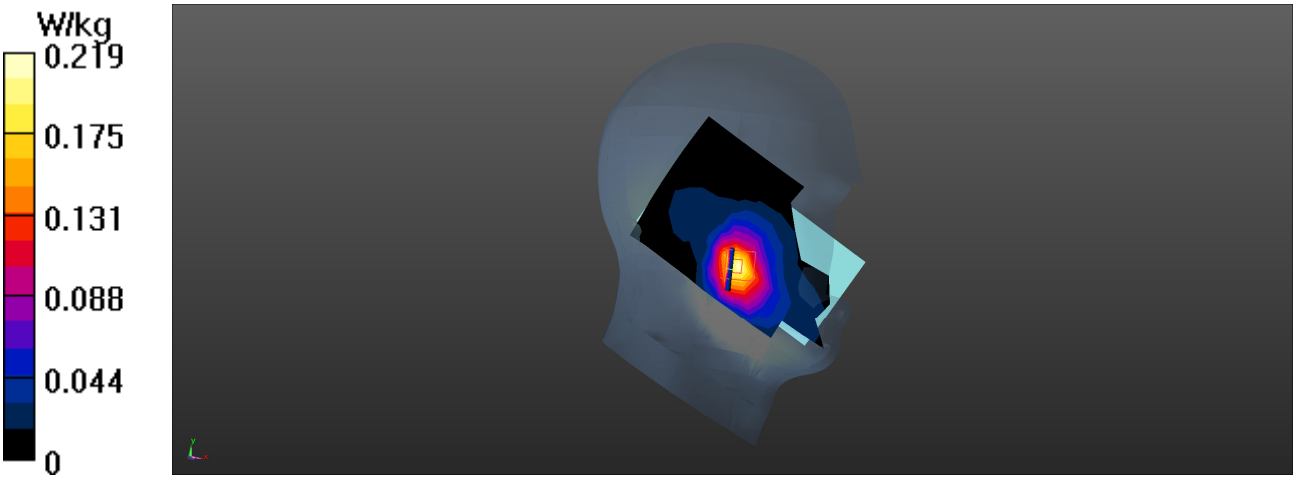
Test Laboratory: DEKRA Date: 2022/12/27

**36_LTE_Band66_QPSK_20M_132572_1RB-50_Left-Cheek**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, FCC LTE Band66; Frequency: 1770 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 1770 MHz; $\sigma$ = 1.38 S/m; $\varepsilon_r$ = 39.41; $\rho$ = 1000 kg/m$^3$
Phantom section: Left Section
Ambient Temperature (°C) : 23.1, Liquid Temperature (°C) : 22.2
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.34, 8.34, 8.34); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

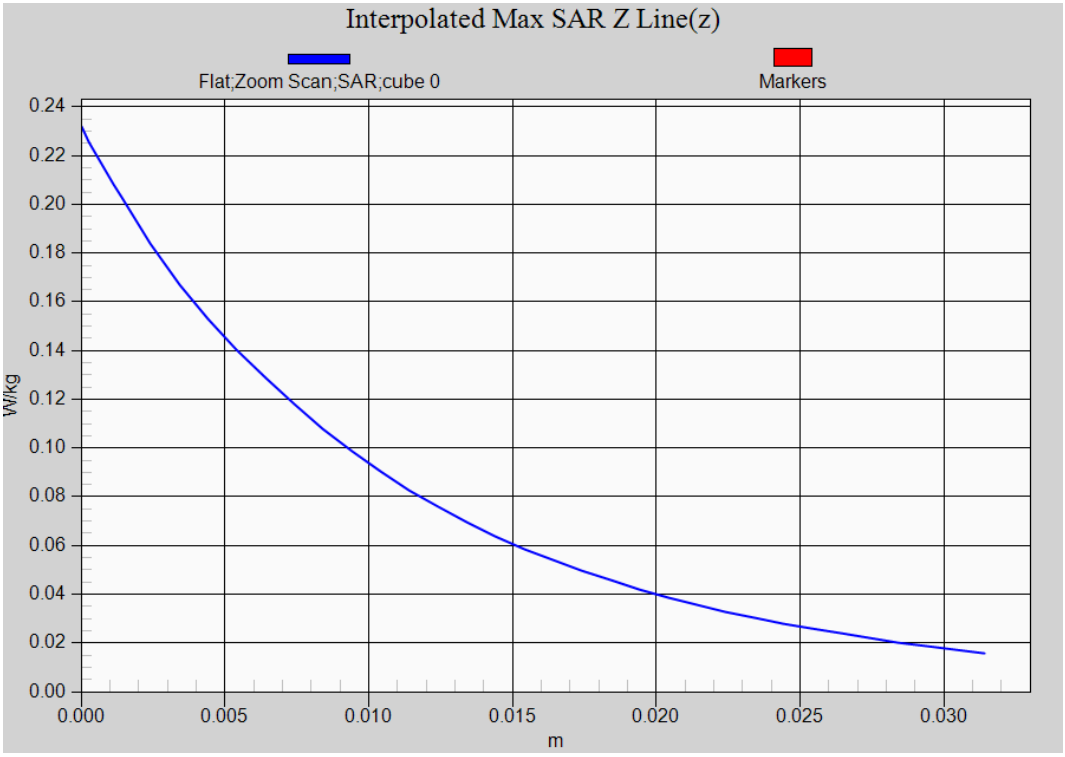
**Configuration/Head/Area Scan (8x14x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.219 W/kg

**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.93 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.232 W/kg
**SAR(1 g) = 0.144 W/kg; SAR(10 g) = 0.086 W/kg**
Maximum value of SAR (measured) = 0.189 W/kg



## LTE Band 66 QPSK 20M EUT 1RB-50_Left-Cheek_0mm_Head, Z-Axis plot

## Channel: 132572



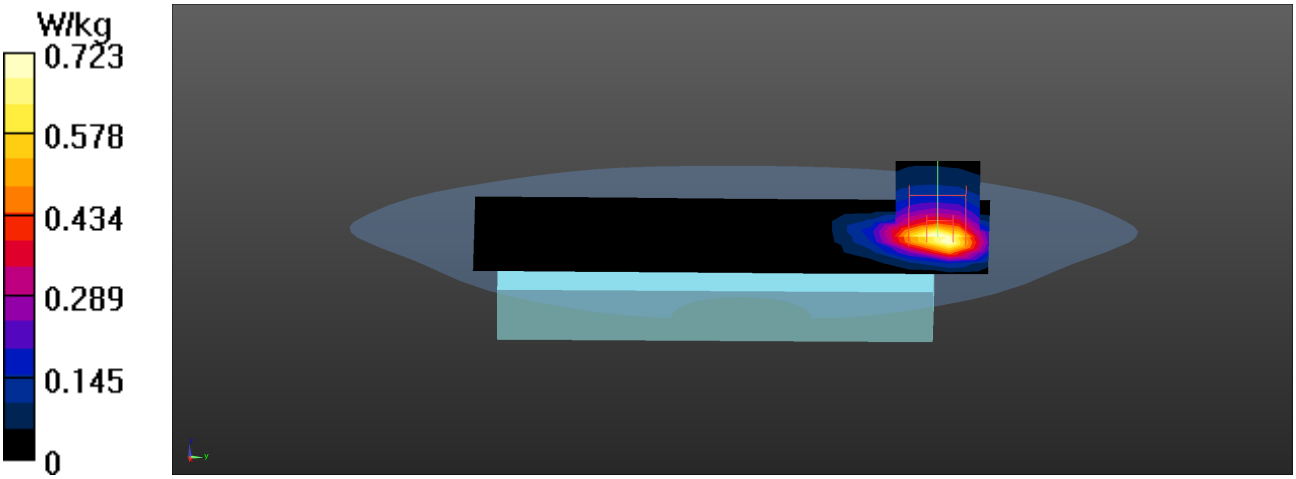
Test Laboratory: DEKRA Date: 2022/12/27

**37_LTE_Band66_QPSK_20M_132322_1RB-50_Back_10mm**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, FCC LTE Band66; Frequency: 1745 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 1745 MHz; $\sigma$ = 1.37 S/m; $\varepsilon_r$ = 39.63; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Ambient Temperature (°C) : 23.1, Liquid Temperature (°C) : 22.2
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.34, 8.34, 8.34); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

**Configuration/Flat/Area Scan (8x14x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.723 W/kg

**Configuration/Flat/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.56 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.913 W/kg
**SAR(1 g) = 0.536 W/kg; SAR(10 g) = 0.310 W/kg**
Maximum value of SAR (measured) = 0.775 W/kg



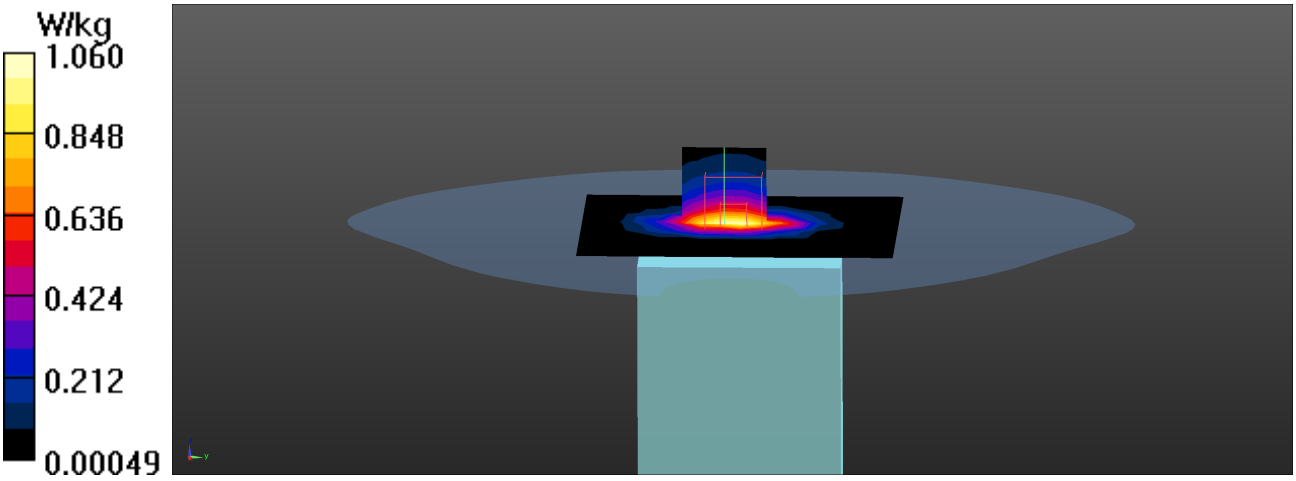
Test Laboratory: DEKRA Date: 2022/12/27

**38_LTE_Band66_QPSK_20M_132072_1RB-50_Bottom_10mm**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, FCC LTE Band66; Frequency: 1720 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 1720 MHz; $\sigma$ = 1.37 S/m; $\varepsilon_r$ = 39.86; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Ambient Temperature (°C) : 23.1, Liquid Temperature (°C) : 22.2
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.34, 8.34, 8.34); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

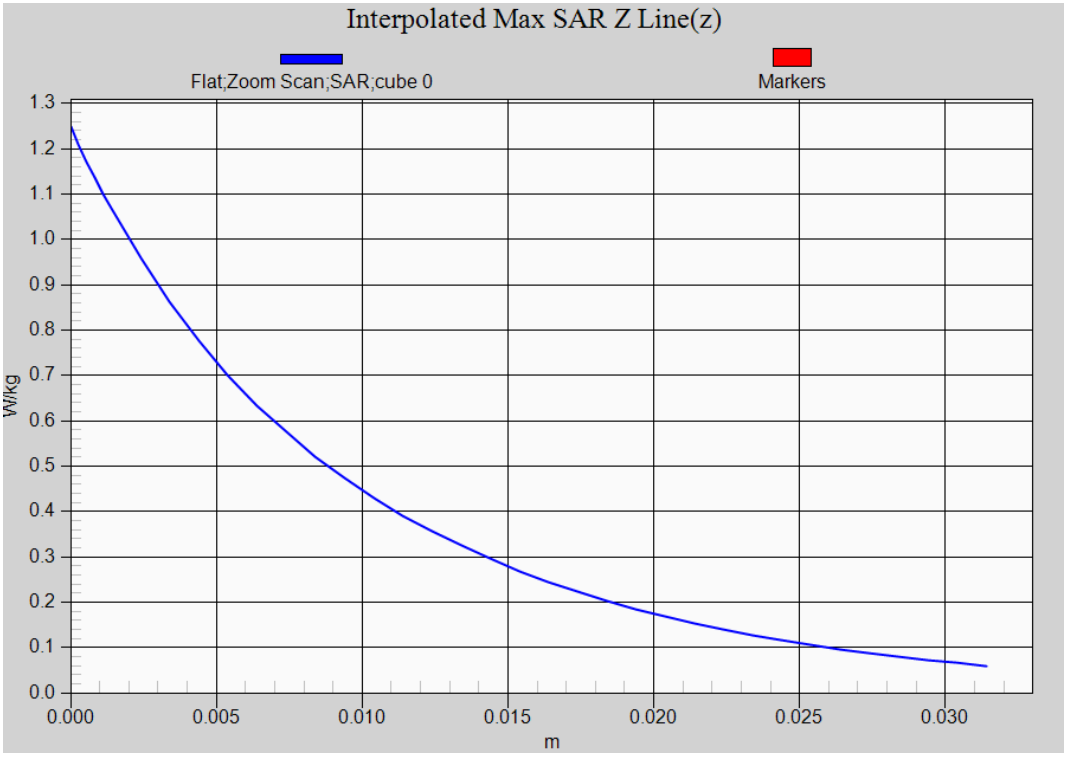
**Configuration/Flat/Area Scan (8x9x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.06 W/kg

**Configuration/Flat/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.75 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 1.25 W/kg
**SAR(1 g) = 0.734 W/kg; SAR(10 g) = 0.412 W/kg**
Maximum value of SAR (measured) = 1.05 W/kg



## LTE Band 66 QPSK 20M EUT 1RB-50_Bottom_10mm_Body, Z-Axis plot

## Channel: 132072



**SAR measurement variability**

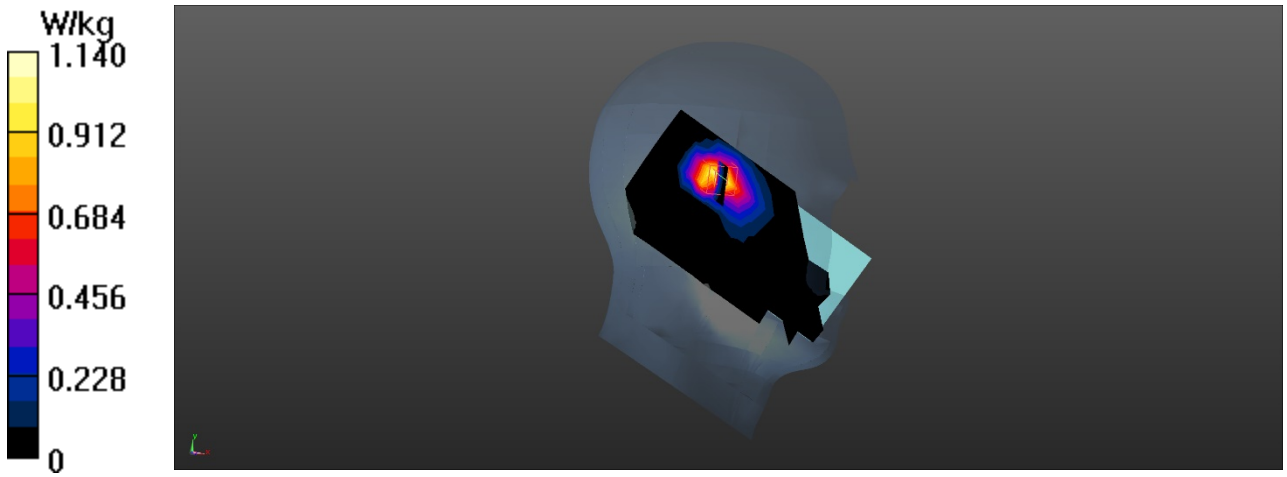
Test Laboratory: DEKRA Date: 2022/12/12

**802.11b_1_Left-Cheek Main-Verify**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, WLAN 2.4G; Frequency: 2412 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 2412 MHz; $\sigma$ = 1.74 S/m; $\varepsilon_r$ = 40.13; $\rho$ = 1000 kg/m$^3$
Phantom section: Left Section
Ambient Temperature (°C) : 22.7, Liquid Temperature (°C) : 21.9
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(7.58, 7.58, 7.58); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

**Configuration/Head/Area Scan (9x18x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.14 W/kg

**Configuration/Head/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 26.10 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.52 W/kg
**SAR(1 g) = 0.778 W/kg; SAR(10 g) = 0.379 W/kg**
Maximum value of SAR (measured) = 1.21 W/kg



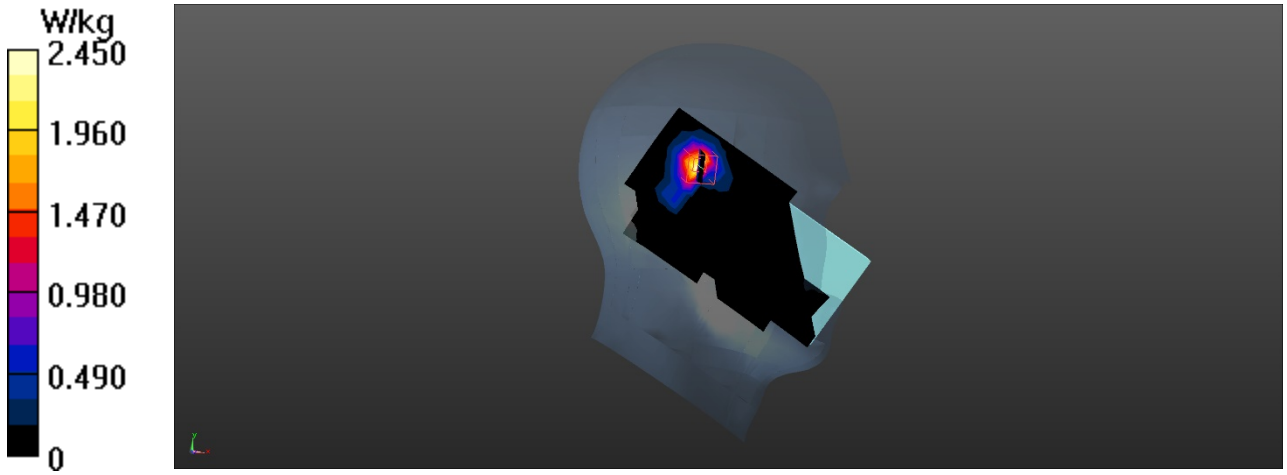
Test Laboratory: DEKRA Date: 2022/12/10

**802.11ac80M_138_Left-Check Main-Verify**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, WLAN 5G; Frequency: 5690 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 5690 MHz; $\sigma$ = 5.17 S/m; $\varepsilon_r$ = 34.75; $\rho$ = 1000 kg/m$^3$
Phantom section: Left Section
Ambient Temperature (°C) : 22.8, Liquid Temperature (°C) : 21.8
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.42, 4.42, 4.42); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

**Configuration/Head/Area Scan (11x21x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 2.45 W/kg

**Configuration/Head/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 21.07 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 4.38 W/kg
**SAR(1 g) = 1.04 W/kg; SAR(10 g) = 0.336 W/kg**
Maximum value of SAR (measured) = 2.59 W/kg



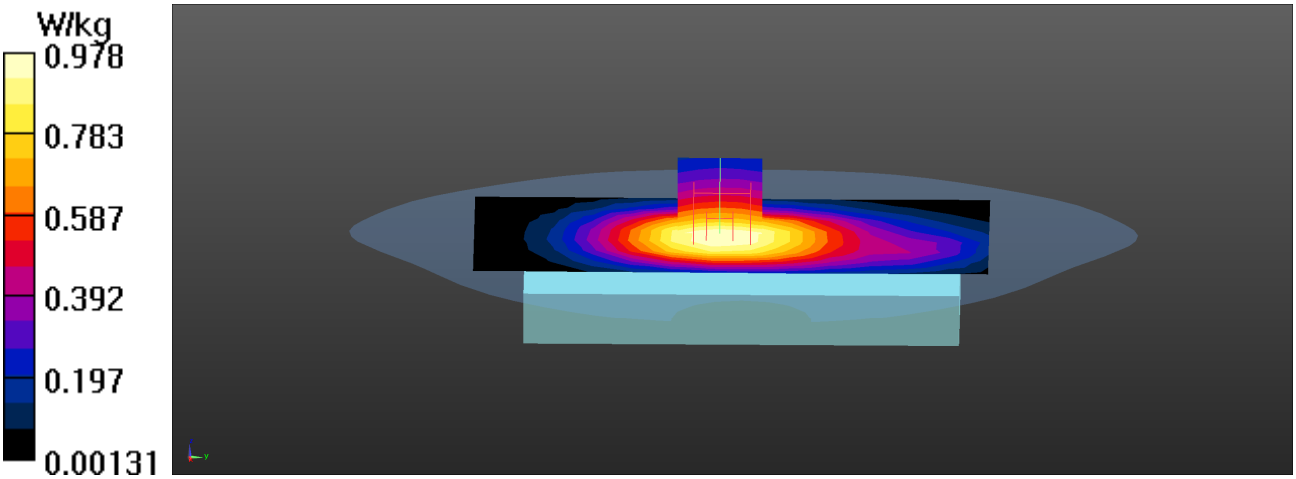
Test Laboratory: DEKRA Date: 2022/12/27

**GSM 850_4UP_Front_128_10mm-Verify**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, FCC GSM_850MHz_GPRS&EGPRS-4 Slot;
Frequency: 824.2 MHz;Communication System PAR: 3.01 dB
Medium parameters used: f = 824.2 MHz; $\sigma$ = 0.89 S/m; $\varepsilon_r$ = 40.95; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Ambient Temperature (°C) : 23.1, Liquid Temperature (°C) : 22.2
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(10.05, 10.05, 10.05); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

**Configuration/Flat/Area Scan (8x14x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.978 W/kg

**Configuration/Flat/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 34.48 V/m; Power Drift = -0.00 dB
Peak SAR (extrapolated) = 1.08 W/kg
**SAR(1 g) = 0.832 W/kg; SAR(10 g) = 0.631 W/kg**
Maximum value of SAR (measured) = 0.995 W/kg



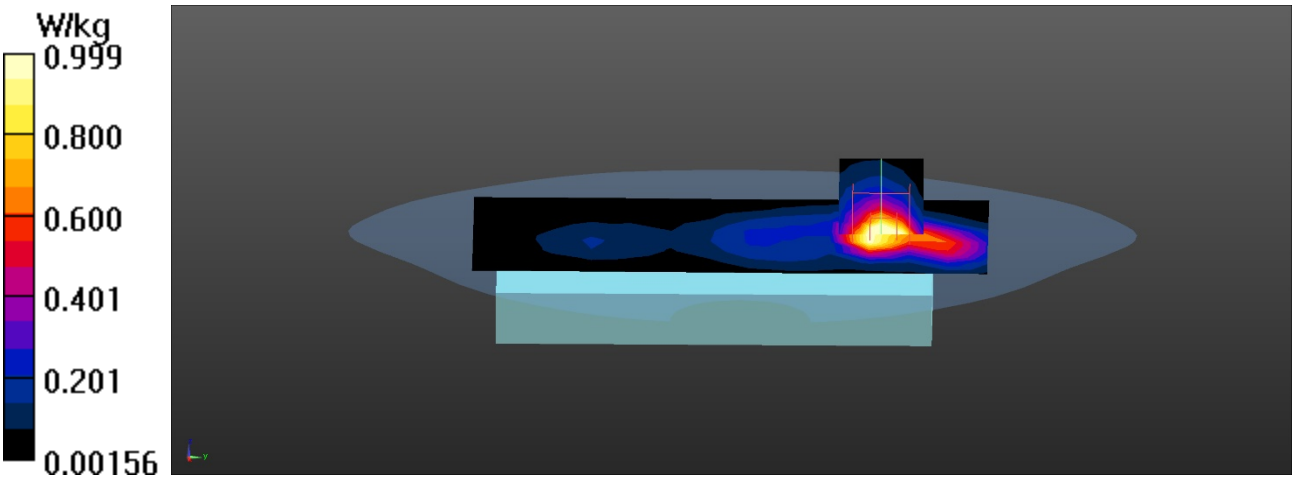
Test Laboratory: DEKRA Date: 2022/12/27

**PCS 1900_4UP_Back_512_10mm-Verify**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, FCC PCS_1900MHz_GPRS&EGPRS-4 Slot;
Frequency: 1850.2 MHz;Communication System PAR: 3.01 dB
Medium parameters used: f = 1850.2 MHz; $\sigma$ = 1.4 S/m; $\varepsilon_r$ = 39.11; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Ambient Temperature (°C) : 23.1, Liquid Temperature (°C) : 22.2
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.12, 8.12, 8.12); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

**Configuration/Flat/Area Scan (8x14x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.999 W/kg

**Configuration/Flat/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 30.98 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 1.70 W/kg
**SAR(1 g) = 0.973 W/kg; SAR(10 g) = 0.499 W/kg**
Maximum value of SAR (measured) = 1.42 W/kg



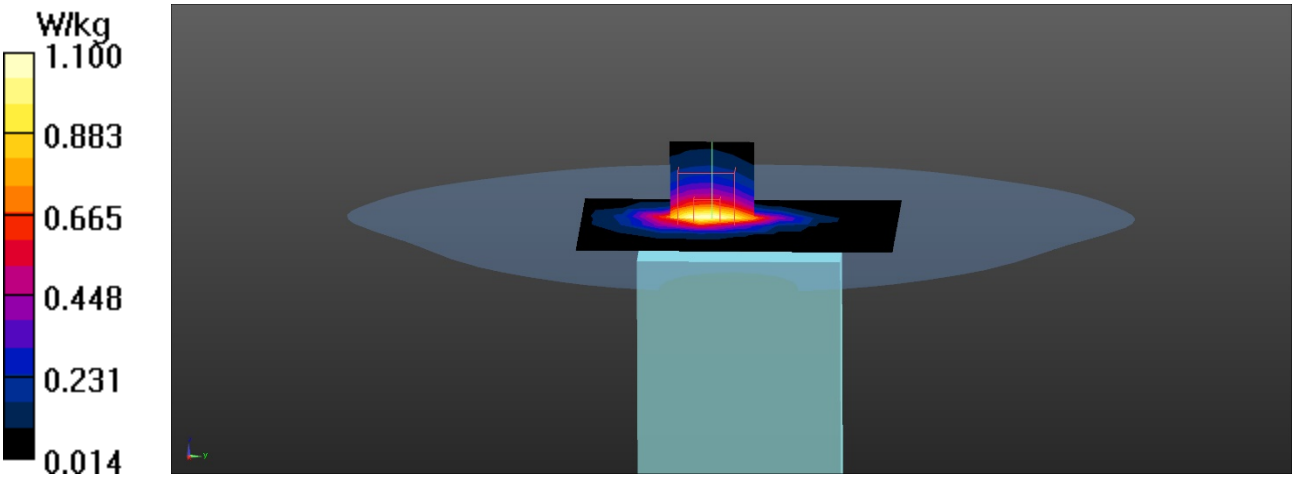
Test Laboratory: DEKRA Date: 2022/12/17

**WCDMA_BAND 2_RMC_9400_Bottom_10mm-Verify**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, FCC WCDMA_Band-2; Frequency: 1880 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 1880 MHz; $\sigma$ = 1.37 S/m; $\varepsilon_r$ = 40.21; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Ambient Temperature (°C) : 22.8, Liquid Temperature (°C) : 21.7
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.12, 8.12, 8.12); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

**Configuration/Flat/Area Scan (7x9x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.10 W/kg

**Configuration/Flat/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.16 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 1.37 W/kg
**SAR(1 g) = 0.806 W/kg; SAR(10 g) = 0.449 W/kg**
Maximum value of SAR (measured) = 1.17 W/kg



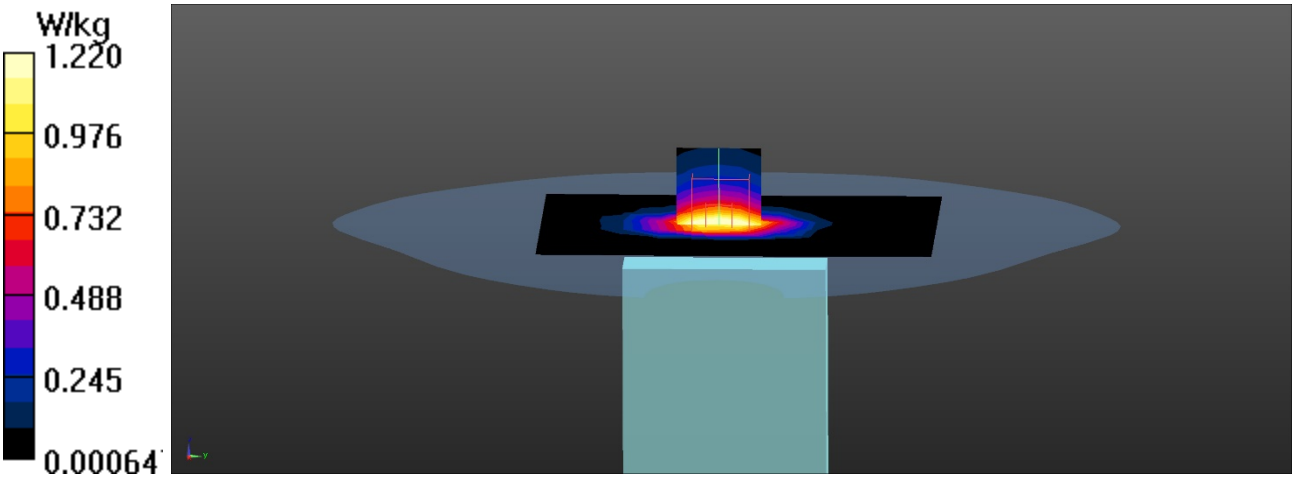
Test Laboratory: DEKRA Date: 2022/12/27

**WCDMA_BAND 4_RMC_1312_Bottom_10mm-Verify**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, FCC WCDMA_Band 4; Frequency: 1712.4 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 1712.4 MHz; $\sigma$ = 1.36 S/m; $\varepsilon_r$ = 39.93; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Ambient Temperature (°C) : 23.1, Liquid Temperature (°C) : 22.2
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.34, 8.34, 8.34); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

**Configuration/Head/Area Scan (8x11x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.22 W/kg

**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.84 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 1.73 W/kg
**SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.582 W/kg**
Maximum value of SAR (measured) = 1.48 W/kg



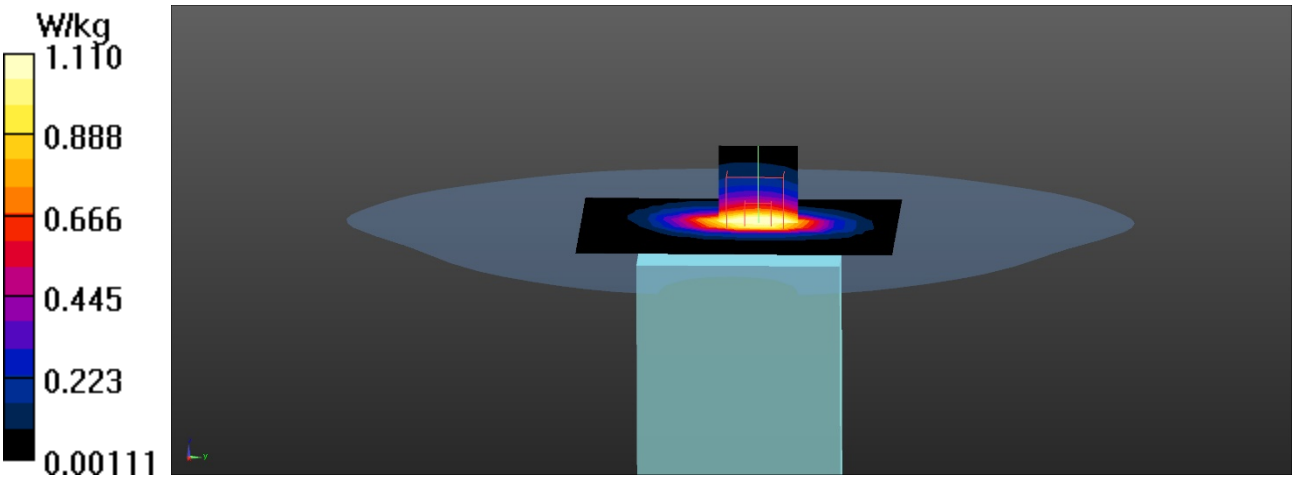
Test Laboratory: DEKRA Date: 2022/12/17

**LTE_Band7_QPSK_20M_20850_1RB-50_Bottom_10mm-Verify**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, LTE Band7; Frequency: 2510 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 2510 MHz; $\sigma$ = 1.91 S/m; $\varepsilon_r$ = 38.97; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Ambient Temperature (°C) : 22.8, Liquid Temperature (°C) : 21.7
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(7.38, 7.38, 7.38); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

**Configuration/Flat/Area Scan (9x11x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.11 W/kg

**Configuration/Flat/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 27.50 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 1.63 W/kg
**SAR(1 g) = 0.865 W/kg; SAR(10 g) = 0.449 W/kg**
Maximum value of SAR (measured) = 1.34 W/kg



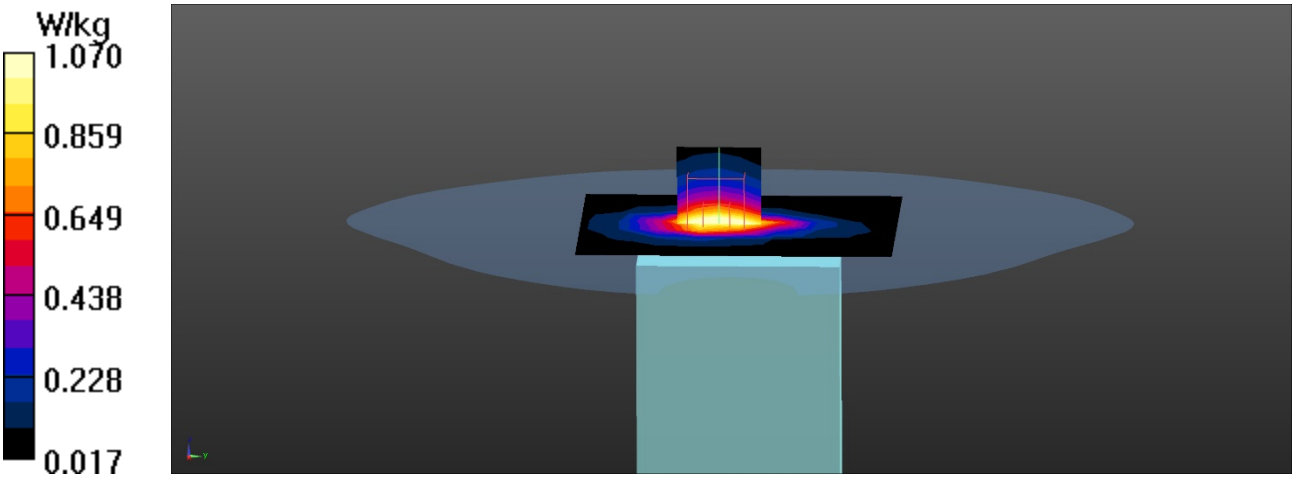
Test Laboratory: DEKRA Date: 2022/12/17

**LTE_Band25_QPSK_20M_26590_1RB-50_Bottom_10mm-Verify**
**DUT: Mobile Computer; Type: RS36**
Communication System: UID 0, LTE Band25; Frequency: 1905 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 1905 MHz; $\sigma$ = 1.38 S/m; $\varepsilon_r$ = 39.54; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Ambient Temperature (°C) : 22.8, Liquid Temperature (°C) : 21.7
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.12, 8.12, 8.12); Calibrated: 2022/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

**Configuration/Flat/Area Scan (8x9x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.07 W/kg

**Configuration/Flat/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 32.52 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 1.53 W/kg
**SAR(1 g) = 0.892 W/kg; SAR(10 g) = 0.497 W/kg**
Maximum value of SAR (measured) = 1.31 W/kg



# Appendix D. Probe Calibration

**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**

**Client** DEKRA (Auden) **Certificate No** EX-3979_Nov22

# CALIBRATION CERTIFICATE

| | |
|---|---|
| Object | EX3DV4 - SN:3979 |
| Calibration procedure(s) | QA CAL-01.v9, QA CAL-12.v9, QA CAL-14.v6, QA CAL-23.v5, QA CAL-25.v7<br>Calibration procedure for dosimetric E-field probes |
| Calibration date | November 23, 2022 |

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 ± 3) °C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID | Cal Date (Certificate No.) | Scheduled Calibration |
|---|---|---|---|
| Power meter NRP | SN: 104778 | 04-Apr-22 (No. 217-03525/03524) | Apr-23 |
| Power sensor NRP-Z91 | SN: 103244 | 04-Apr-22 (No. 217-03524) | Apr-23 |
| OCP DAK-3.5 (weighted) | SN: 1249 | 20-Oct-22 (OCP-DAK3.5-1249_Oct22) | Oct-23 |
| OCP DAK-12 | SN: 1016 | 20-Oct-22 (OCP-DAK12-1016_Oct22) | Oct-23 |
| Reference 20 dB Attenuator | SN: CC2552 (20x) | 04-Apr-22 (No. 217-03527) | Apr-23 |
| DAE4 | SN: 660 | 10-Oct-22 (No. DAE4-660_Oct22) | Oct-23 |
| Reference Probe ES3DV2 | SN: 3013 | 27-Dec-21 (No. ES3-3013_Dec21) | Dec-22 |

| Secondary Standards | ID | Check Date (in house) | Scheduled Check |
|---|---|---|---|
| Power meter E4419B | SN: GB41293874 | 06-Apr-16 (in house check Jun-22) | In house check: Jun-24 |
| Power sensor E4412A | SN: MY41498087 | 06-Apr-16 (in house check Jun-22) | In house check: Jun-24 |
| Power sensor E4412A | SN: 000110210 | 06-Apr-16 (in house check Jun-22) | In house check: Jun-24 |
| RF generator HP 8648C | SN: US3642U01700 | 04-Aug-99 (in house check Jun-22) | In house check: Jun-24 |
| Network Analyzer E8358A | SN: US41080477 | 31-Mar-14 (in house check Oct-22) | In house check: Oct-24 |

| | Name | Function | Signature |
|---|---|---|---|
| Calibrated by | Jeffrey Katzman | Laboratory Technician | |
| Approved by | Sven Kühn | Technical Manager | |

Issued: November 23, 2022

**Calibration Laboratory of**
Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland

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**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 |
| NORMx,y,z | sensitivity in free space |
| ConvF | sensitivity in TSL / NORMx,y,z |
| DCP | diode compression point |
| CF | crest factor (1/duty_cycle) of the RF signal |
| A, B, C, D | modulation dependent linearization parameters |
| Polarization $\varphi$ | $\varphi$ rotation around probe axis |
| Polarization $\vartheta$ | $\vartheta$ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is normal to probe axis |
| Connector Angle | information used in DASY system to align probe sensor X to the robot coordinate system |

## Calibration is Performed According to the Following Standards:

a) 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.
b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

## Methods Applied and Interpretation of Parameters:

- *NORMx,y,z*: Assessed for E-field polarization $\vartheta = 0$ ($f \leq 900$ MHz in TEM-cell; $f > 1800$ MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the $E^2$-field uncertainty inside TSL (see below *ConvF*).
- *NORM(f)x,y,z = NORMx,y,z * frequency_response* (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- *DCPx,y,z*: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal. DCP does not depend on frequency nor media.
- *PAR*: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- *Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z: A, B, C, D* are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- *ConvF and Boundary Effect Parameters*: Assessed in flat phantom using E-field (or Temperature Transfer Standard for $f \leq 800$ MHz) and inside waveguide using analytical field distributions based on power measurements for $f > 800$ MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to *NORMx,y,z * ConvF* whereby the uncertainty corresponds to that given for *ConvF*. A frequency dependent *ConvF* is used in DASY version 4.4 and higher which allows extending the validity from ±50 MHz to ±100 MHz.
- *Spherical isotropy (3D deviation from isotropy)*: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- *Sensor Offset*: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- *Connector Angle*: The angle is assessed using the information gained by determining the *NORMx* (no uncertainty required).

# Parameters of Probe: EX3DV4 - SN:3979

## Basic Calibration Parameters

| | Sensor X | Sensor Y | Sensor Z | Unc ($k = 2$) |
|---|---|---|---|---|
| Norm ($\mu V/(V/m)^2$) [A] | 0.46 | 0.49 | 0.47 | ±10.1% |
| DCP (mV) [B] | 103.0 | 101.0 | 103.4 | ±4.7% |

## Calibration Results for Modulation Response

| UID | Communication System Name | | A dB | B dB$\sqrt{\mu V}$ | C | D dB | VR mV | Max dev. | Max Unc[E] $k = 2$ |
|---|---|---|---|---|---|---|---|---|---|
| 0 | CW | X | 0.00 | 0.00 | 1.00 | 0.00 | 163.8 | ±1.7% | ±4.7% |
| | | Y | 0.00 | 0.00 | 1.00 | | 165.4 | | |
| | | Z | 0.00 | 0.00 | 1.00 | | 158.1 | | |

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%.

[A] The uncertainties of Norm X,Y,Z do not affect the $E^2$-field uncertainty inside TSL (see Page 5).
[B] Linearization parameter uncertainty for maximum specified field strength.
[E] Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

# Parameters of Probe: EX3DV4 - SN:3979

## Other Probe Parameters

| | |
|---|---|
| Sensor Arrangement | Triangular |
| Connector Angle | 136.0° |
| Mechanical Surface Detection Mode | enabled |
| Optical Surface Detection Mode | disabled |
| Probe Overall Length | 337 mm |
| Probe Body Diameter | 10 mm |
| Tip Length | 9 mm |
| Tip Diameter | 2.5 mm |
| Probe Tip to Sensor X Calibration Point | 1 mm |
| Probe Tip to Sensor Y Calibration Point | 1 mm |
| Probe Tip to Sensor Z Calibration Point | 1 mm |
| Recommended Measurement Distance from Surface | 1.4 mm |

**Note:** Measurement distance from surface can be increased to 3–4 mm for an *Area Scan* job.

# Parameters of Probe: EX3DV4 - SN:3979

## Calibration Parameter Determined in Head Tissue Simulating Media

| f (MHz)[C] | Relative Permittivity[F] | Conductivity[F] (S/m) | ConvF X | ConvF Y | ConvF Z | Alpha[G] | Depth[G] (mm) | Unc ($k = 2$) |
|---|---|---|---|---|---|---|---|---|
| 450 | 43.5 | 0.87 | 10.79 | 10.79 | 10.79 | 0.16 | 1.30 | ±13.3% |
| 750 | 41.9 | 0.89 | 10.47 | 10.47 | 10.47 | 0.54 | 0.80 | ±12.0% |
| 835 | 41.5 | 0.90 | 10.05 | 10.05 | 10.05 | 0.53 | 0.80 | ±12.0% |
| 900 | 41.5 | 0.97 | 9.73 | 9.73 | 9.73 | 0.49 | 0.80 | ±12.0% |
| 1450 | 40.5 | 1.20 | 8.47 | 8.47 | 8.47 | 0.54 | 0.80 | ±12.0% |
| 1640 | 40.2 | 1.31 | 8.48 | 8.48 | 8.48 | 0.38 | 0.86 | ±12.0% |
| 1750 | 40.1 | 1.37 | 8.34 | 8.34 | 8.34 | 0.35 | 0.86 | ±12.0% |
| 1950 | 40.0 | 1.40 | 8.12 | 8.12 | 8.12 | 0.39 | 0.86 | ±12.0% |
| 2300 | 39.5 | 1.67 | 7.87 | 7.87 | 7.87 | 0.31 | 0.90 | ±12.0% |
| 2450 | 39.2 | 1.80 | 7.58 | 7.58 | 7.58 | 0.34 | 0.90 | ±12.0% |
| 2600 | 39.0 | 1.96 | 7.38 | 7.38 | 7.38 | 0.41 | 0.90 | ±12.0% |
| 3300 | 38.2 | 2.71 | 6.92 | 6.92 | 6.92 | 0.40 | 1.30 | ±13.1% |
| 3500 | 37.9 | 2.91 | 6.85 | 6.85 | 6.85 | 0.40 | 1.30 | ±13.1% |
| 3700 | 37.7 | 3.12 | 6.82 | 6.82 | 6.82 | 0.35 | 1.30 | ±13.1% |
| 5250 | 35.9 | 4.71 | 4.80 | 4.80 | 4.80 | 0.40 | 1.80 | ±13.1% |
| 5600 | 35.5 | 5.07 | 4.42 | 4.42 | 4.42 | 0.40 | 1.80 | ±13.1% |
| 5800 | 35.3 | 5.27 | 4.40 | 4.40 | 4.40 | 0.40 | 1.80 | ±13.1% |

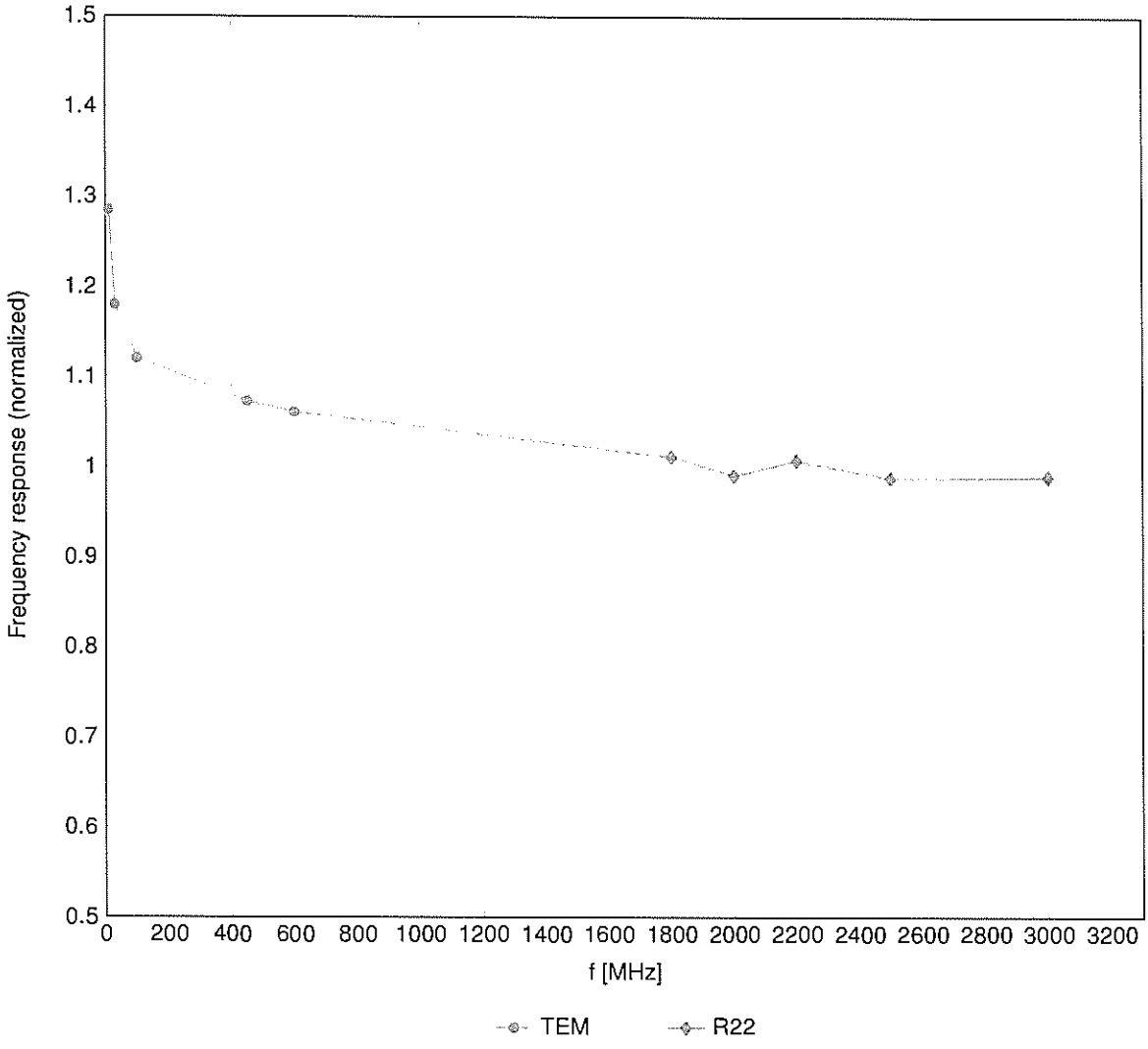
[C] Frequency validity above 300 MHz of ±100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ±50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ±10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4–9 MHz, and ConvF assessed at 13 MHz is 9–19 MHz. Above 5 GHz frequency validity can be extended to ±110 MHz.

[F] At frequencies below 3 GHz, the validity of tissue parameters ($\varepsilon$ and $\sigma$) can be relaxed to ±10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters ($\varepsilon$ and $\sigma$) is restricted to ±5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

[G] Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ±1% for frequencies below 3 GHz and below ±2% for frequencies between 3–6 GHz at any distance larger than half the probe tip diameter from the boundary.

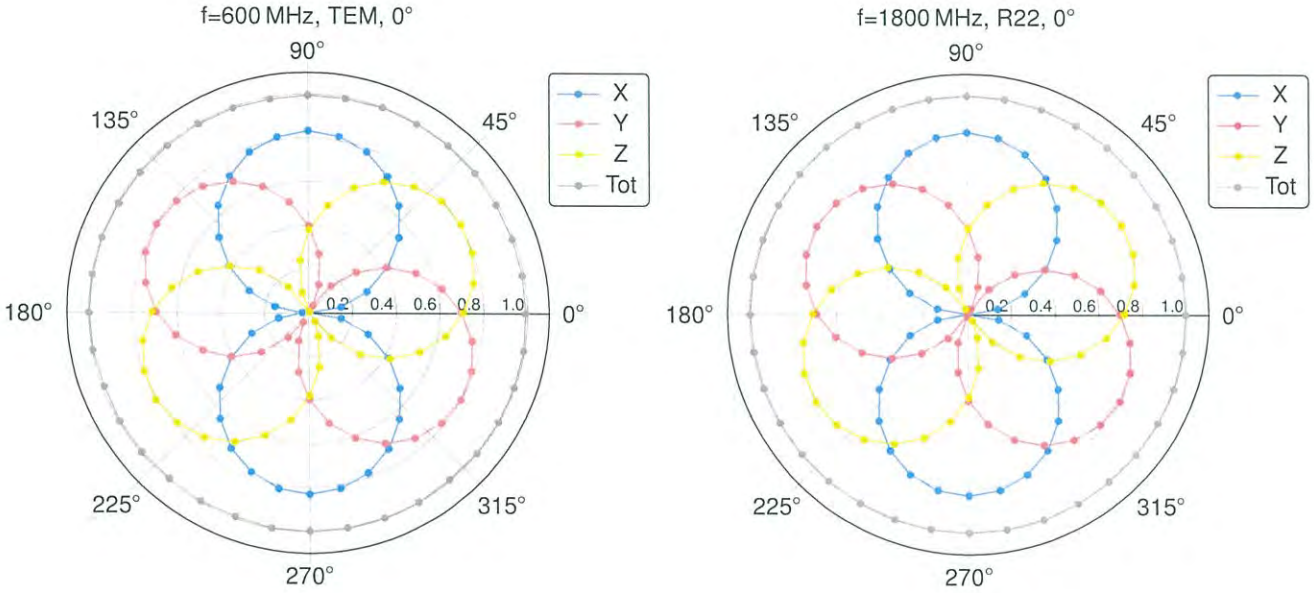
## Frequency Response of E-Field

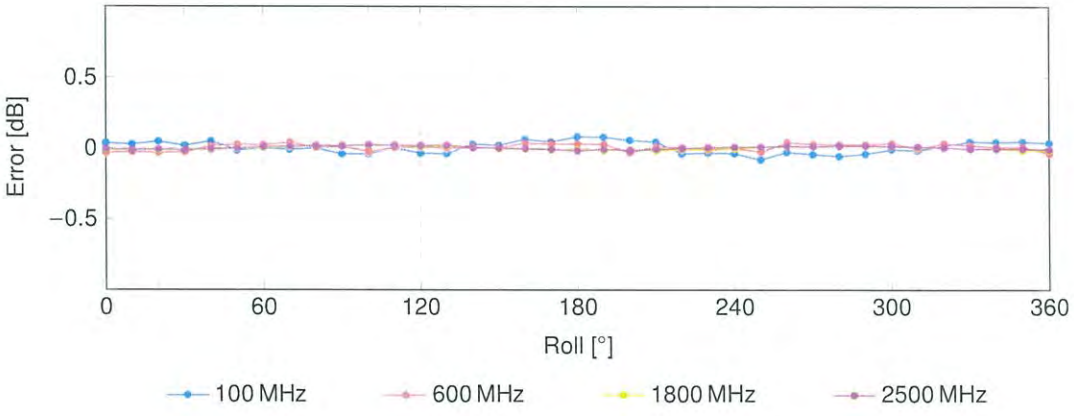
(TEM-Cell:ifi110 EXX, Waveguide:R22)




Uncertainty of Frequency Response of E-field: ±6.3% (k=2)

## Receiving Pattern ($\phi$), $\vartheta = 0°$

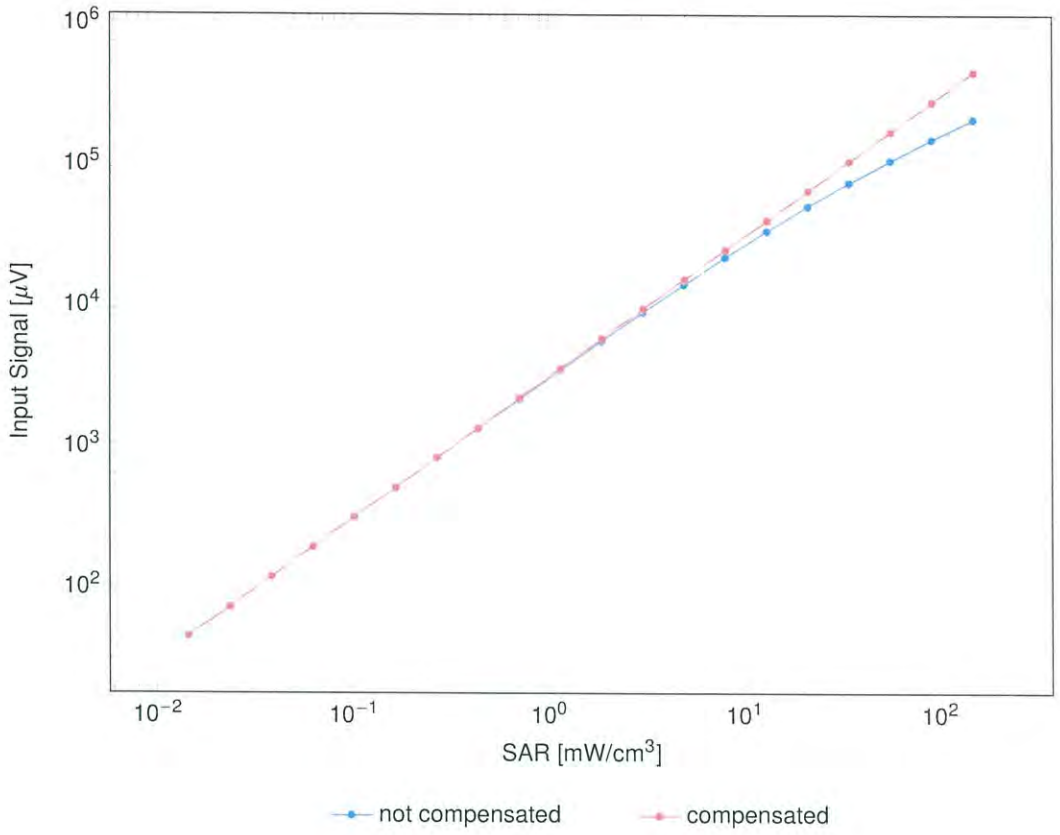


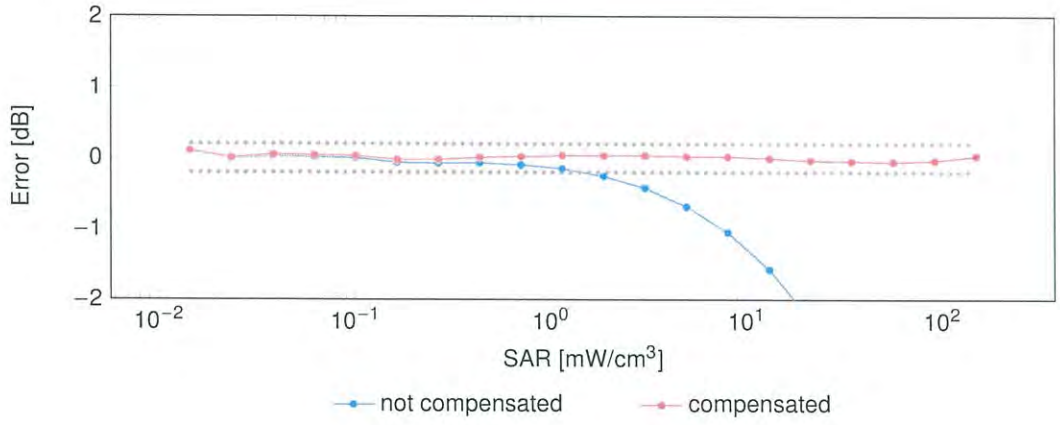




Uncertainty of Axial Isotropy Assessment: ±0.5% (k=2)

## Dynamic Range f($SAR_{head}$)

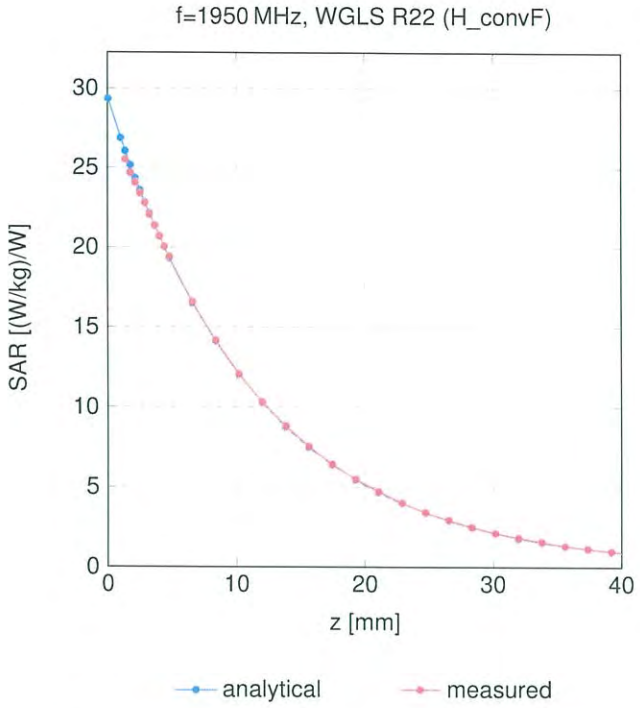
(TEM cell, $f_{eval}$ = 1900 MHz)



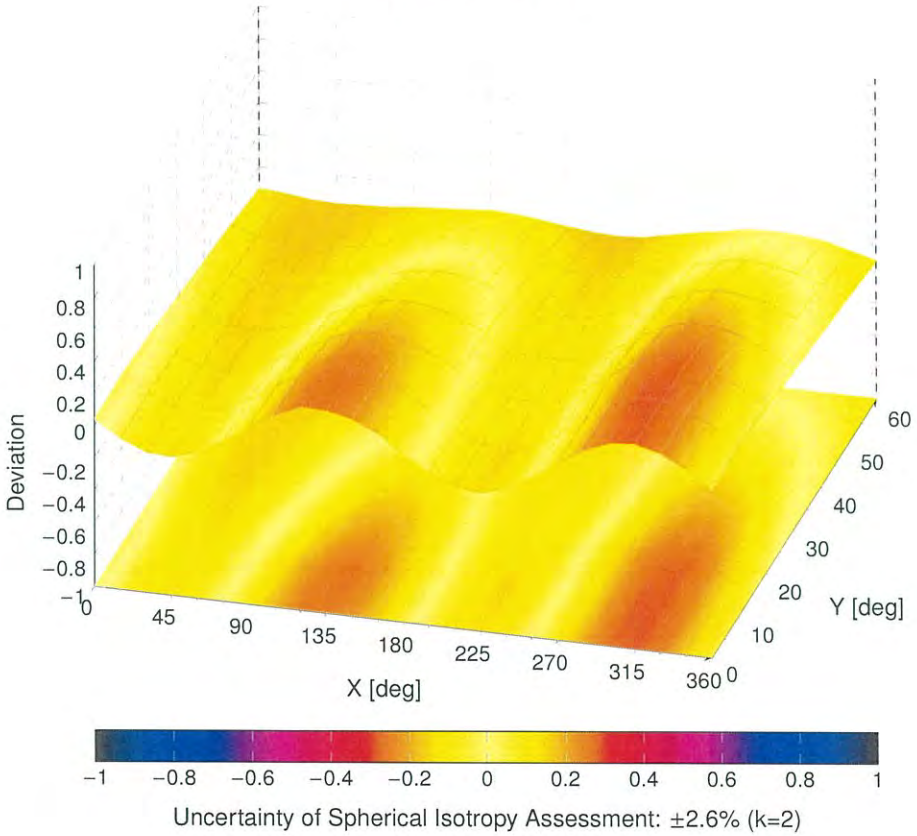

Uncertainty of Linearity Assessment: ±0.6% (k=2)

## Conversion Factor Assessment




## Deviation from Isotropy in Liquid

**Error ($\phi$, $\theta$), f = 900 MHz**



**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**

**Client** **DEKRA (Auden)**

**Certificate No: D750V3-1031_May20**

# CALIBRATION CERTIFICATE

| | |
|---|---|
| Object | D750V3 - SN:1031 |
| Calibration procedure(s) | QA CAL-05.v11<br>Calibration Procedure for SAR Validation Sources between 0.7-3 GHz |
| Calibration date: | May 27, 2020 |

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 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID # | Cal Date (Certificate No.) | Scheduled Calibration |
|---|---|---|---|
| Power meter NRP | SN: 104778 | 01-Apr-20 (No. 217-03100/03101) | Apr-21 |
| Power sensor NRP-Z91 | SN: 103244 | 01-Apr-20 (No. 217-03100) | Apr-21 |
| Power sensor NRP-Z91 | SN: 103245 | 01-Apr-20 (No. 217-03101) | Apr-21 |
| Reference 20 dB Attenuator | SN: BH9394 (20k) | 31-Mar-20 (No. 217-03106) | Apr-21 |
| Type-N mismatch combination | SN: 310982 / 06327 | 31-Mar-20 (No. 217-03104) | Apr-21 |
| Reference Probe EX3DV4 | SN: 7349 | 31-Dec-19 (No. EX3-7349_Dec19) | Dec-20 |
| DAE4 | SN: 601 | 27-Dec-19 (No. DAE4-601_Dec19) | Dec-20 |

| Secondary Standards | ID # | Check Date (in house) | Scheduled Check |
|---|---|---|---|
| Power meter E4419B | SN: GB39512475 | 30-Oct-14 (in house check Feb-19) | In house check: Oct-20 |
| Power sensor HP 8481A | SN: US37292783 | 07-Oct-15 (in house check Oct-18) | In house check: Oct-20 |
| Power sensor HP 8481A | SN: MY41092317 | 07-Oct-15 (in house check Oct-18) | In house check: Oct-20 |
| RF generator R&S SMT-06 | SN: 100972 | 15-Jun-15 (in house check Oct-18) | In house check: Oct-20 |
| Network Analyzer Agilent E8358A | SN: US41080477 | 31-Mar-14 (in house check Oct-19) | In house check: Oct-20 |

| | Name | Function | Signature |
|---|---|---|---|
| Calibrated by: | Jeffrey Katzman | Laboratory Technician | |
| Approved by: | Katja Pokovic | Technical Manager | |

Issued: May 27, 2020

## 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:

a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

## Additional Documentation:

e) DASY4/5 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%.