

FCC SAR Test Report

Product Name : WCDMA/LTE/5G Mobile Phone

Model No. : EA211001, EC211001, EC211004

Applicant : FIH CO., LTD.

Address : No.4, Minsheng St., Tu-Cheng Dist., New Taipei City 23679, Taiwan

Date of Receipt : 2021/05/13

Issued Date : 2021/06/22

Report No. : 2150419R-E3082130008

Report Version : V2.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

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Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Test Report

Issued Date: 2021/06/22

Report No.: 2150419R-E3082130008



Product Name : WCDMA/LTE/5G Mobile Phone
Applicant : FIH CO., LTD.
Address : No.4, Minsheng St., Tu-Cheng Dist., New Taipei City 23679, Taiwan
Manufacturer : FIH CO., LTD.
Model No. : EA211001, EC211001, EC211004
Trade Name : FIH
FCC ID : RYQEA211001
Applicable Standard : IEEE 1528-2013
Measurement : 47CFR § 2.1093
Procedures : KDB 248227 D01 v02r02
KDB 447498 D01 v06
KDB 648474 D04 v01r03
KDB 865664 D01 v01r04
KDB 941225 D01 v03r01
KDB 941225 D05 v02r05
KDB 941225 D05A v01r02
KDB 941225 D06 v02r01
Test Result : Max. SAR Measurement (1g)
WLAN: **0.379** W/kg
WWAN: **1.139** 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.

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Revision History

Report No.	Version	Description	Issued Date
2150419R-E3082130008	V1.0	Initial issue of report.	2021-06-16
2150419R-E3082130008	V2.0	Update Product Name	2021-06-22

1. General Information

1.1 EUT Description

Product Name	WCDMA/LTE/5G Mobile Phone			
Trade Name	FIH			
Model No.	EA211001, EC211001, EC211004			
FCC ID	RYQEA211001			
Test Sample	EA211001			
TX Frequency (Licensed)	WCDMA B2/LTE Band 2/NR n2: 1850 MHz ~ 1910 MHz WCDMA B4/LTE Band 4: 1710 MHz ~ 1755 MHz WCDMA B5/LTE Band 5/NR n5: 824 MHz ~ 849MHz LTE Band 12: 699 MHz ~ 716 MHz; LTE Band 14: 788 MHz ~ 798 MHz LTE Band 30: 2305 MHz ~ 2315 MHz LTE Band 66/NR n66: 1710 MHz ~ 1780 MHz			
TX Frequency	802.11b/g/n-20MHz:2412MHz~2462MHz, 802.11n-40MHz: 2422MHz~2452MHz 802.11a/n-20:5180-5320MHz, 5500-5720MHz, 5745-5825MHz 802.11n-40/MHz: 5190-5310MHz, 5510-5670MHz, 5755-5795MHz 802.11ac-20MHz: 5720MHz, 802.11ac-40MHz: 5710MHz 802.11ac-80MHz: 5210-5290MHz, 5530-5690MHz, 5775MHz BT : 2402 – 2480MHz			
Channel separation	802.11b/g/n-20MHz: 5 MHz, 802.11a/n-20MHz: 20MHz 802.11n-40MHz: 40MHz, 802.11ac-80MHz: 80MHz BT : 1MHz, BLE : 2MHz			
Number of Channels	802.11b/g/n-20MHz: 11, 802.11a/n-20MHz: 25 802.11n-40MHz: 12, 802.11ac-80MHz: 6 BT : 79 , BLE : 40			
Data Rate	802.11b: 1-11Mbps, 802.11n VHT: up to 86.7Mbps 802.11a/g: 6-54Mbps, 802.11n: up to 150Mbps 802.11ac: up to 433.3Mbps BT : 3Mbps , BLE : 2Mbps			
Type of Modulation	WCDMA: RMC/AMR 12.2Kbps/HSDPA/HSUPA LTE: QPSK/16QAM/64QAM NR: CP-OFDM/DFT-s-OFDM/PI/2 BPSK/QPSK/16QAM/64QAM/256QAM DSSS/OFDM GFSK(1Mbps/2Mbps)/ π /4DQPSK(2Mbps)/8DPSK(3Mbps)			
Device Category	Portable			
RF Exposure Environment	Uncontrolled			
Summary of test result – Reported Head/Hotspot/Body-worn 1g SAR (W/Kg)				
Test configuration	Licensed	DTS	NII	DSS(BT)
Head	1.139	0.364	0.249	0.179
Hotspot	0.797	0.379	0.289	0.048
Body-worn	0.589	0.265	0.289	0.046
Simultaneous	1.513			
Summary of test result – Reported Product Specific 10g SAR (W/Kg)				
Test configuration	Licensed	DTS	NII	DSS(BT)
Product Specific	N/A	N/A	0.717	N/A
Declaration of Conformity:				
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.				

1.2 Antenna List

Antenna	Manufacturer	FIH P/N	Antenna type	TX Bands
ANT0	Tongda	MEFLC61001A/ MEFLC61004A	Monopole	WCDMA B2/B4/B5 LTE Band 2/4/5/12/14/30/66 NR n2/n5/n66
ANT1			Loop	LTE Band 2/4/30/66
ANT2			Monopole	LTE Band 5/12/14 NR n5
ANT6			Loop	WLAN 2.4GHz/BT
ANT5	Speed	S0AC60360A0	PIFA	WLAN 5GHz

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 ANT0	< 25mm	< 25mm	< 25mm	< 25mm	> 25mm	< 25mm
	Yes	Yes	Yes	Yes	No	Yes
WWAN ANT1	< 25mm	< 25mm	> 25mm	< 25mm	> 25mm	< 25mm
	Yes	Yes	No	Yes	No	Yes
WWAN ANT2	< 25mm	< 25mm	< 25mm	< 25mm	< 25mm	> 25mm
	Yes	Yes	Yes	Yes	Yes	No
2.4GHz WLAN/BT ANT	< 25mm	< 25mm	< 25mm	> 25mm	< 25mm	> 25mm
	Yes	Yes	Yes	No	Yes	No
5GHz WLAN ANT	< 25mm	< 25mm	< 25mm	> 25mm	< 25mm	< 25mm
	Yes	Yes	Yes	No	Yes	Yes
Note: The antenna separation distances refer to Test Setup Photographs.						

1.4 Test Environment

Ambient conditions in the laboratory:

Test Mode: WLAN 2.4GHz Test Date: 25-May-21

Items	Required	Actual
Temperature (°C)	18-25	22.9 ± 2
Humidity (%RH)	30-70	52

Test Mode: WLAN 5GHz Test Date: 05-Jun.-21

Items	Required	Actual
Temperature (°C)	18-25	23.7 ± 2
Humidity (%RH)	30-70	52

Test Mode: WCDMA B2 Test Date: 19-May-21

Items	Required	Actual
Temperature (°C)	18-25	21.3 ± 2
Humidity (%RH)	30-70	53

Test Mode: WCDMA B2 Test Date: 02-Jun.-21

Items	Required	Actual
Temperature (°C)	18-25	23.4 ± 2
Humidity (%RH)	30-70	51

Test Mode: WCDMA B4 Test Date: 13-May-21

Items	Required	Actual
Temperature (°C)	18-25	23.5 ± 2
Humidity (%RH)	30-70	51

Test Mode: WCDMA B4 Test Date: 03-Jun.-21

Items	Required	Actual
Temperature (°C)	18-25	22.9 ± 2
Humidity (%RH)	30-70	51

Test Mode: WCDMA B5 Test Date: 17-May-21

Items	Required	Actual
Temperature (°C)	18-25	22.5 ± 2
Humidity (%RH)	30-70	52

Test Mode: WCDMA B5 Test Date: 25-May-21

Items	Required	Actual
Temperature (°C)	18-25	22.9 ± 2
Humidity (%RH)	30-70	52

Test Mode: LTE Band 2 Test Date: 19-May-21

Items	Required	Actual
Temperature (°C)	18-25	23.1 ± 2
Humidity (%RH)	30-70	53

Test Mode: LTE Band 2 Test Date: 02-Jun.-21

Items	Required	Actual
Temperature (°C)	18-25	23.4 ± 2
Humidity (%RH)	30-70	51

Test Mode: LTE Band 5 Test Date: 17-May-21

Items	Required	Actual
Temperature (°C)	18-25	22.5 ± 2
Humidity (%RH)	30-70	52

Test Mode: LTE Band 5 Test Date: 25-May-21

Items	Required	Actual
Temperature (°C)	18-25	22.9 ± 2
Humidity (%RH)	30-70	52

Test Mode: LTE Band 12 Test Date: 17-May-21

Items	Required	Actual
Temperature (°C)	18-25	22.5 ± 2
Humidity (%RH)	30-70	52

Test Mode: LTE Band 12 Test Date: 25-May-21

Items	Required	Actual
Temperature (°C)	18-25	22.9 ± 2
Humidity (%RH)	30-70	52

Test Mode: LTE Band 14 Test Date: 17-May-21

Items	Required	Actual
Temperature (°C)	18-25	22.5 ± 2
Humidity (%RH)	30-70	52

Test Mode: LTE Band 14 Test Date: 25-May-21

Items	Required	Actual
Temperature (°C)	18-25	22.9 ± 2
Humidity (%RH)	30-70	52

Test Mode: LTE Band 30 Test Date: 13-May-21

Items	Required	Actual
Temperature (°C)	18-25	23.4 ± 2
Humidity (%RH)	30-70	50

Test Mode: LTE Band 30 Test Date: 03-Jun.-21

Items	Required	Actual
Temperature (°C)	18-25	22.5 ± 2
Humidity (%RH)	30-70	52

Test Mode: LTE Band 66 Test Date: 13-May-21

Items	Required	Actual
Temperature (°C)	18-25	23.5 ± 2
Humidity (%RH)	30-70	51

Test Mode: LTE Band 66 Test Date: 03-Jun.-21

Items	Required	Actual
Temperature (°C)	18-25	22.9 ± 2
Humidity (%RH)	30-70	51

Test Mode: NR n2 Test Date: 27-May-21

Items	Required	Actual
Temperature (°C)	18-25	22.9 ± 2
Humidity (%RH)	30-70	52

Test Mode: NR n5 Test Date: 04-Jun.-21

Items	Required	Actual
Temperature (°C)	18-25	23.4 ± 2
Humidity (%RH)	30-70	52

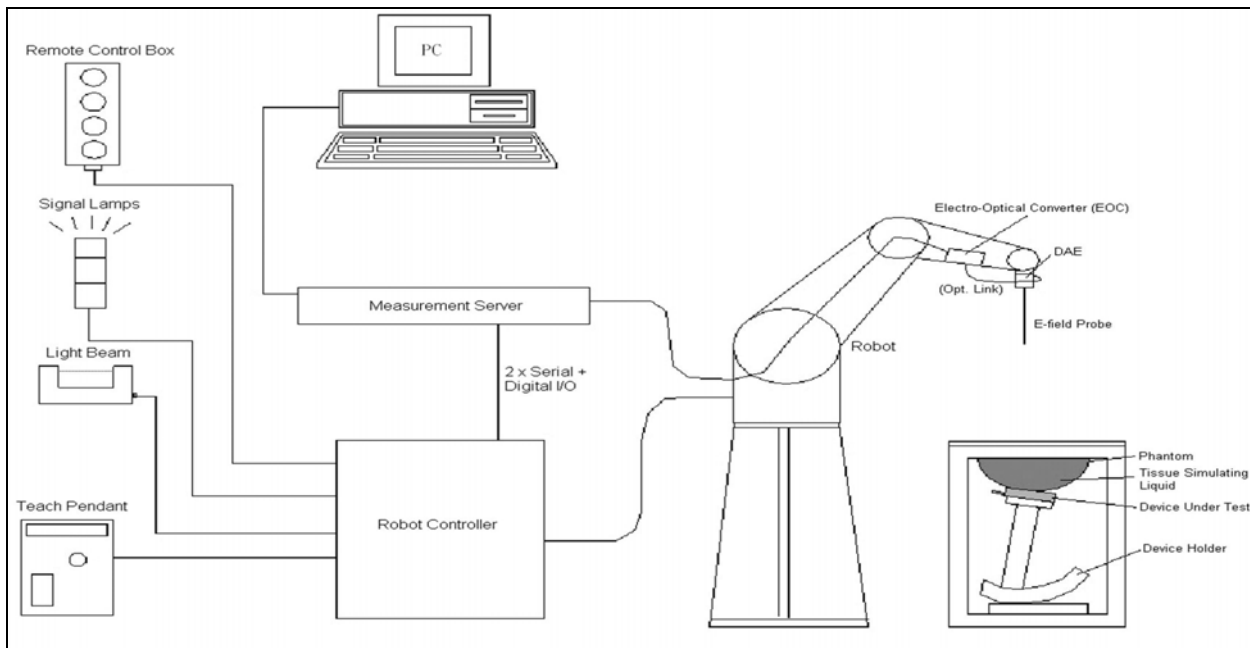
Test Mode: NR n66 Test Date: 26-May-21

Items	Required	Actual
Temperature (°C)	18-25	23.5 ± 2
Humidity (%RH)	30-70	50

USA : FCC Registration Number: TW3023**Canada : IC Registration Number: 4075A**Site Description: Accredited by TAF
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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.

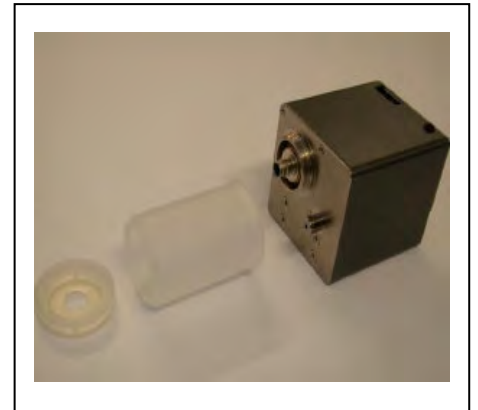
SPEAG conducts the probe calibration in compliance with international and national standards (e.g. IEEE 1528, EN 62209-1, IEC 62209, etc.) under ISO 17025. The calibration data are in Appendix D.

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 Linearity: ± 0.2 dB (30 MHz to 6 GHz)	
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)	
Dynamic Range	10 μ W/g to 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)	
Dimensions	Overall length: 330 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) 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 $\epsilon_r = 3$ and loss tangent $\delta = 0.02$. 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	5200MHz Head	5800MHz Head
Water	40.45	52.55	54.90	46.70	67.63	68.29
Salt	1.45	0.34	0.18	0	0	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	3.38	2.44
Triton X-100	0	0	0	0	28.99	29.27

3.2 Tissue Calibration Result

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

Head Tissue Simulate Measurement				
Frequency [MHz]	Description	Dielectric Parameters		Tissue Temp. [°C]
		ϵ_r	σ [s/m]	
750 MHz	Reference result $\pm 5\%$ window	41.9 39.81 to 44	0.89 0.85 to 0.93	N/A
	17-May-21	42.38	0.87	21.7
704 MHz	Channel 23060	42.84	0.85	21.7
707.5 MHz	Channel 23095	42.81	0.85	21.7
711 MHz	Channel 23130	42.76	0.86	21.7
793 MHz	Channel 23330	42.09	0.91	21.7
826.4 MHz	Channel 4132	41.69	0.88	21.7
829 MHz	Channel 20450	41.63	0.88	21.7
836.5 MHz	Channel 20525	41.59	0.89	21.7
836.6 MHz	Channel 4183	41.57	0.89	21.7
844 MHz	Channel 20600	41.40	0.91	21.7
846.6 MHz	Channel 4233	41.35	0.92	21.7

Head Tissue Simulate Measurement				
Frequency [MHz]	Description	Dielectric Parameters		Tissue Temp. [°C]
		ϵ_r	σ [s/m]	
750 MHz	Reference result $\pm 5\%$ window	41.9 39.81 to 44	0.89 0.85 to 0.93	N/A
	25-May-21	42.28	0.89	21.8
704 MHz	Channel 23060	42.74	0.87	21.8
707.5 MHz	Channel 23095	42.71	0.87	21.8
711 MHz	Channel 23130	42.66	0.88	21.8
793 MHz	Channel 23330	42.01	0.90	21.8
826.4 MHz	Channel 4132	41.59	0.90	21.8
829 MHz	Channel 20450	41.53	0.90	21.8
836.5 MHz	Channel 20525	41.47	0.91	21.8
836.6 MHz	Channel 4183	41.47	0.91	21.8
844 MHz	Channel 20600	41.31	0.92	21.8
846.6 MHz	Channel 4233	41.25	0.92	21.8

Head Tissue Simulate Measurement				
Frequency [MHz]	Description	Dielectric Parameters		Tissue Temp. [°C]
		ϵ_r	σ [s/m]	
750 MHz	Reference result $\pm 5\%$ window	41.9 39.81 to 44	0.89 0.85 to 0.93	N/A
	04-Jun.-21	42.49	0.88	22.3
834 MHz	Channel 166800	41.70	0.90	22.3
836.5 MHz	Channel 167300	41.68	0.90	22.3
839 MHz	Channel 167800	41.60	0.91	22.3

Head Tissue Simulate Measurement				
Frequency [MHz]	Description	Dielectric Parameters		Tissue Temp. [°C]
		ϵ_r	σ [s/m]	
1750MHz	Reference result $\pm 5\%$ window	40.1 38.1 to 42.11	1.37 1.30 to 1.44	N/A
	13-May-21	40.44	1.38	22.1
1712.4 MHz	Channel 1312	41.04	1.33	22.1
1720 MHz	Channel 132072	40.71	1.34	22.1
1732.6 MHz	Channel 1413	40.63	1.36	22.1
1745 MHz	Channel 132322	40.52	1.37	22.1
1752.6 MHz	Channel 1513	40.39	1.38	22.1
1770 MHz	Channel 132572	40.11	1.39	22.1

Head Tissue Simulate Measurement				
Frequency [MHz]	Description	Dielectric Parameters		Tissue Temp. [°C]
		ϵ_r	σ [s/m]	
1750MHz	Reference result $\pm 5\%$ window	40.1 38.1 to 42.11	1.37 1.30 to 1.44	N/A
	26-May-21	40.25	1.37	22.2
1730 MHz	Channel 346000	40.44	1.34	22.2
1745 MHz	Channel 349000	40.33	1.36	22.2
1760 MHz	Channel 352000	40.04	1.37	22.2

Head Tissue Simulate Measurement				
Frequency [MHz]	Description	Dielectric Parameters		Tissue Temp. [°C]
		ϵ_r	σ [s/m]	
1750MHz	Reference result $\pm 5\%$ window	40.1 38.1 to 42.11	1.37 1.30 to 1.44	N/A
	03-Jun.-21	40.35	1.39	21.8
1712.4 MHz	Channel 1312	40.54	1.34	21.8
1720 MHz	Channel 132072	40.51	1.34	21.8
1732.6 MHz	Channel 1413	40.43	1.37	21.8
1745 MHz	Channel 132322	40.32	1.38	21.8
1752.6 MHz	Channel 1513	40.14	1.39	21.8
1770 MHz	Channel 132572	40.01	1.40	21.8

Head Tissue Simulate Measurement				
Frequency [MHz]	Description	Dielectric Parameters		Tissue Temp. [°C]
		ϵ_r	σ [s/m]	
1950MHz	Reference result $\pm 5\%$ window	40 38 to 42	1.4 1.33 to 1.47	N/A
	19-May-21	40.28	1.42	21.9
1852.4 MHz	Channel 9262	41.10	1.34	21.9
1860 MHz	Channel 18700	40.94	1.35	21.9
1880 MHz	Channel 9400	40.85	1.37	21.9
1880 MHz	Channel 18900	40.85	1.37	21.9
1900 MHz	Channel 19100	40.51	1.40	21.9
1907.6 MHz	Channel 9538	40.59	1.40	21.9

Head Tissue Simulate Measurement				
Frequency [MHz]	Description	Dielectric Parameters		Tissue Temp. [°C]
		ϵ_r	σ [s/m]	
1950MHz	Reference result $\pm 5\%$ window	40 38 to 42	1.4 1.33 to 1.47	N/A
	27-May-21	40.17	1.43	21.7
1860 MHz	Channel 372000	40.81	1.36	21.7
1880 MHz	Channel 376000	40.74	1.38	21.7
1900 MHz	Channel 380000	40.55	1.41	21.7

Head Tissue Simulate Measurement				
Frequency [MHz]	Description	Dielectric Parameters		Tissue Temp. [°C]
		ϵ_r	σ [s/m]	
1950MHz	Reference result $\pm 5\%$ window	40 38 to 42	1.4 1.33 to 1.47	N/A
	02-Jun.-21	40.33	1.45	22.1
1852.4 MHz	Channel 9262	41.15	1.37	22.1
1860 MHz	Channel 18700	40.99	1.38	22.1
1880 MHz	Channel 9400	40.90	1.40	22.1
1880 MHz	Channel 18900	40.90	1.40	22.1
1900 MHz	Channel 19100	40.56	1.43	22.1
1907.6 MHz	Channel 9538	40.64	1.43	22.1

Head Tissue Simulate Measurement				
Frequency [MHz]	Description	Dielectric Parameters		Tissue Temp. [°C]
		ϵ_r	σ [s/m]	
2300MHz	Reference result $\pm 5\%$ window	39.5 37.53 to 41.48	1.67 1.59 to 1.75	N/A
	13-May-21	39.52	1.68	22.3
2310 MHz	Channel 27710	39.44	1.69	22.3

Head Tissue Simulate Measurement				
Frequency [MHz]	Description	Dielectric Parameters		Tissue Temp. [°C]
		ϵ_r	σ [s/m]	
2300MHz	Reference result $\pm 5\%$ window	39.5 37.53 to 41.48	1.67 1.59 to 1.75	N/A
	03-Jun.-21	39.63	1.67	21.9
2310 MHz	Channel 27710	39.56	1.68	21.9

Head Tissue Simulate Measurement				
Frequency [MHz]	Description	Dielectric Parameters		Tissue Temp. [°C]
		ϵ_r	σ [s/m]	
2450 MHz	Reference result $\pm 5\%$ window	39.2 37.24 to 41.16	1.8 1.71 to 1.89	N/A
	25-May-21	39.80	1.82	21.8
2412 MHz	Channel 1	39.94	1.77	21.8
2437 MHz	Channel 6	39.85	1.80	21.8
2462 MHz	Channel 11	39.75	1.83	21.8
2480 MHz	Channel 78	39.68	1.85	21.8

Head Tissue Simulate Measurement				
Frequency [MHz]	Description	Dielectric Parameters		Tissue Temp. [°C]
		ϵ_r	σ [s/m]	
5250MHz	Reference result $\pm 5\%$ window	35.95 34.15 to 37.75	4.71 4.47 to 4.95	N/A
	05-Jun.-21	36.15	4.76	22.5
5210 MHz	Channel 42	36.26	4.71	22.5
5290 MHz	Channel 58	36.04	4.82	22.5

Head Tissue Simulate Measurement				
Frequency [MHz]	Description	Dielectric Parameters		Tissue Temp. [°C]
		ϵ_r	σ [s/m]	
5600MHz	Reference result $\pm 5\%$ window	35.5 33.73 to 37.28	5.07 4.82 to 5.32	N/A
	05-Jun.-21	35.18	5.14	22.5
5530 MHz	Channel 106	35.37	5.09	22.5
5610 MHz	Channel 122	35.16	5.15	22.5
5690 MHz	Channel 138	34.94	5.27	22.5

Head Tissue Simulate Measurement				
Frequency [MHz]	Description	Dielectric Parameters		Tissue Temp. [°C]
		ϵ_r	σ [s/m]	
5800MHz	Reference result $\pm 5\%$ window	35.3 33.54 to 37.07	5.27 5.01 to 5.53	N/A
	05-Jun.-21	34.63	5.50	22.5
5775 MHz	155	34.7	5.46	22.5

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

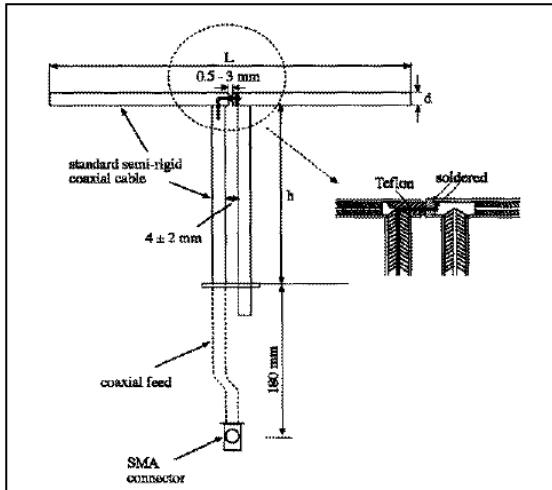
Target Frequency	Head	
(MHz)	ϵ_r	σ (S/m)
300	45.3	0.87
450	43.5	0.87
750	41.9	0.89
835	41.5	0.90
900	41.5	0.97
1450	40.5	1.20
1640	40.2	1.31
1750	40.1	1.37
1800 – 2000	40.0	1.40
2450	39.2	1.80
3000	38.5	2.40
5000	36.2	4.45
5200	36.0	4.66
5400	35.8	4.86
5600	35.3	5.27
5800	35.3	5.27
6000	35.1	5.48

(ϵ_r = relative permittivity, σ = conductivity and ρ = 1000 kg/m³)

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
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
	17-May-21	8.52	5.56	21.7
	25-May-21	7.96	5.36	21.8
	04-Jun.-21	8.04	5.12	22.3

Dipole Kit: D1750V2

Frequency [MHz]	Description	SAR [w/kg] 1g	SAR [w/kg] 10g	Tissue Temp. [°C]
1750 MHz	Reference result ± 10% window	37.30 33.57 to 41.03	19.6 17.64 to 21.56	N/A
	13-May-21	35.92	18.64	22.1
	26-May-21	36.68	19.04	22.2
	03-Jun.-21	37.44	19.40	21.8

Dipole Kit: D1950V3

Frequency [MHz]	Description	SAR [w/kg] 1g	SAR [w/kg] 10g	Tissue Temp. [°C]
1950 MHz	Reference result ± 10% window	39.7 35.73 to 43.67	20.7 18.63 to 22.77	N/A
	19-May-21	40.40	21.20	21.9
	27-May-21	38.80	20.40	21.7
	02-Jun.-21	39.52	20.16	22.1

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 2300MHz, 2450MHz
Dipole Kit: D2300V2

Frequency [MHz]	Description	SAR [w/kg] 1g	SAR [w/kg] 10g	Tissue Temp. [°C]
2300 MHz	Reference result ± 10% window	48.6 43.74 to 53.46	23.2 20.88 to 25.52	N/A
	13-May-21	50.40	23.80	22.3
	03-Jun.-21	47.20	22.28	21.9

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	24.6 22.14 to 27.06	N/A
	25-May-21	51.60	24.04	21.8

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
	05-Jun.-21	82.60	23.10	22.5
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
	05-Jun.-21	86.00	24.90	22.5
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
	05-Jun.-21	82.90	22.60	22.5

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
Stäubli Robot TX60L	Stäubli	TX60L	F09/5BL1A1/A06	2009/05/18	only once
Controller	Speag	CS8c	N/A	2009/05/18	only once
Reference Dipole 750MHz	Speag	D750V3	1031	2020/05/27	2023/05/26
Reference Dipole 1750MHz	Speag	D1750V2	1113	2019/11/21	2022/11/20
Reference Dipole 1950MHz	Speag	D1950V3	1213	2019/11/05	2022/11/04
Reference Dipole 2300MHz	Speag	D2300V2	1045	2019/05/14	2022/05/13
Reference Dipole 2450MHz	Speag	D2450V2	930	2019/11/21	2022/11/20
Reference Dipole 5GHz	Speag	D5GHzV2	1041	2020/05/25	2023/05/24
SAM Twin Phantom	Speag	QD000 P40 CA	Tp 1515	N/A	N/A
Device Holder	Speag	N/A	N/A	N/A	N/A
Data Acquisition Electronic	Speag	DAE4	1425	2020/11/24	2021/11/23
E-Field Probe	Speag	EX3DV4	3979	2020/11/25	2021/11/24
Power Amplifier	Mini-Circuit	ZHL-42	D051404-20	N/A	N/A
Directional Coupler	Agilent	87300C	MY44300353	N/A	N/A1
Attenuator	Woken	WATT-218FS-10	N/A	N/A	N/A1
Attenuator	Mini-Circuit	BW-S20W2+	N/A	N/A	N/A1
Universal Radio Communication	R&S	CMU200	104846	2020/9/15	2021/9/14
Universal Radio Communication	Anritsu	MT8820C	6201465467	2020/8/13	2021/8/12
Universal Radio Communication	R&S	CMW500	157304	2020/12/8	2021/12/7
Vector Network Analyzer	Agilent	E5071C	MY46108013	2021/2/24	2022/2/23
Signal Generator	Anritsu	MG3694A	041902	2020/08/31	2021/08/30
Power Meter	Anritsu	ML2487A	6K00001447	2020/11/06	2021/11/05
Power Sensor	Anritsu	MA2411B	1339194	2020/11/06	2021/11/05

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

7. Measurement Uncertainty

DASY5 Uncertainty (According to IEEE 1528-2013) 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) v _{eff}
Measurement System								
Probe Calibration	±6%	N	1	1	1	±6.0%	±6.0%	∞
Axial Isotropy	±4.7%	R	$\sqrt{3}$	0.7	0.7	±1.9%	±1.9%	∞
Hemispherical Isotropy	±9.6%	R	$\sqrt{3}$	0.7	0.7	±3.9%	±3.9%	∞
Boundary Effects	±1.0%	R	$\sqrt{3}$	1	1	±0.6%	±0.6%	∞
Linearity	±4.7%	R	$\sqrt{3}$	1	1	±2.7%	±2.7%	∞
System Detection Limits	±1.0%	R	$\sqrt{3}$	1	1	±0.6%	±0.6%	∞
Modulation Response	±2.4%	R	$\sqrt{3}$	1	1	±1.4%	±1.4%	∞
Readout Electronics	±0.3%	N	1	1	1	±0.3%	±0.3%	∞
Response Time	±0.8%	R	$\sqrt{3}$	1	1	±0.5%	±0.5%	∞
Integration Time	±2.6%	R	$\sqrt{3}$	1	1	±1.5%	±1.5%	∞
RF Ambient Noise	±3.0%	R	$\sqrt{3}$	1	1	±1.7%	±1.7%	∞
RF Ambient Reflections	±3.0%	R	$\sqrt{3}$	1	1	±1.7%	±1.7%	∞
Probe Positioner	±0.4%	R	$\sqrt{3}$	1	1	±0.2%	±0.2%	∞
Probe Positioning	±2.9%	R	$\sqrt{3}$	1	1	±1.7%	±1.7%	∞
Max. SAR Eval.	±4.0%	R	$\sqrt{3}$	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	$\sqrt{3}$	1	1	±2.9%	±2.9%	∞
Power Scaling	±0%	R	$\sqrt{3}$	1	1	±0.0%	±0.0%	
Phantom and Setup								
Phantom Uncertainty	±6.1%	R	$\sqrt{3}$	1	1	±3.5%	±3.5%	∞
SAR correction	±1.9%	R	$\sqrt{3}$	1	0.84	±1.1%	±0.9%	∞
Liquid Conductivity (meas.)	±2.5%	R	$\sqrt{3}$	0.78	0.71	±1.1%	±1.0%	∞
Liquid Permittivity (meas.)	±2.5%	R	$\sqrt{3}$	0.26	0.26	±0.3%	±0.4%	∞
Temp. unc. - Conductivity	±3.4%	R	$\sqrt{3}$	0.78	0.71	±1.5%	±1.4%	∞
Temp. unc. - Permittivity	±0.4%	R	$\sqrt{3}$	0.23	0.26	±0.1%	±0.1%	∞
Combined Std. Uncertainty						±11.2%	±11.1%	361
Expanded STD Uncertainty						±22.3%	±22.2%	

DASY5 Uncertainty (According to IEEE 1528-2013) 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) v _{eff}
Measurement System								
Probe Calibration	±6.55%	N	1	1	1	±6.55%	±6.55%	∞
Axial Isotropy	±4.7%	R	$\sqrt{3}$	0.7	0.7	±1.9%	±1.9%	∞
Hemispherical Isotropy	±9.6%	R	$\sqrt{3}$	0.7	0.7	±3.9%	±3.9%	∞
Boundary Effects	±2.0%	R	$\sqrt{3}$	1	1	±1.2%	±1.2%	∞
Linearity	±4.7%	R	$\sqrt{3}$	1	1	±2.7%	±2.7%	∞
System Detection Limits	±1.0%	R	$\sqrt{3}$	1	1	±0.6%	±0.6%	∞
Modulation Response	±2.4%	R	$\sqrt{3}$	1	1	±1.4%	±1.4%	∞
Readout Electronics	±0.3%	N	1	1	1	±0.3%	±0.3%	∞
Response Time	±0.8%	R	$\sqrt{3}$	1	1	±0.5%	±0.5%	∞
Integration Time	±2.6%	R	$\sqrt{3}$	1	1	±1.5%	±1.5%	∞
RF Ambient Noise	±3.0%	R	$\sqrt{3}$	1	1	±1.7%	±1.7%	∞
RF Ambient Reflections	±3.0%	R	$\sqrt{3}$	1	1	±1.7%	±1.7%	∞
Probe Positioner	±0.8%	R	$\sqrt{3}$	1	1	±0.5%	±0.5%	∞
Probe Positioning	±6.7%	R	$\sqrt{3}$	1	1	±3.9%	±3.9%	∞
Post-processing	±4.0%	R	$\sqrt{3}$	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	$\sqrt{3}$	1	1	±2.9%	±2.9%	∞
Power Scaling	±0%	R	$\sqrt{3}$	1	1	±0.0%	±0.0%	
Phantom and Setup								
Phantom Uncertainty	±6.6%	R	$\sqrt{3}$	1	1	±3.8%	±3.8%	∞
SAR correction	±1.9%	R	$\sqrt{3}$	1	1	±1.1%	±0.9%	∞
Liquid Conductivity (meas.)	±2.5%	R	$\sqrt{3}$	1	0.84	±1.1%	±1.0%	∞
Liquid Permittivity (meas.)	±2.5%	R	$\sqrt{3}$	0.26	0.26	±0.3%	±0.4%	∞
Temp. unc. - Conductivity	±3.4%	R	$\sqrt{3}$	0.78	0.71	±1.5%	±1.4%	∞
Temp. unc. - Permittivity	±0.4%	R	$\sqrt{3}$	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)

Maximum Output Power (Including tolerance) (dBm)				
Exposure Conditions		Head	Hotspot	Body-worn Extremity
Distance (mm)		0	10	10 0
DSI		1	2	
Power Reduction		Receiver ON	Hotspot ON	G-sensor Triggered
WLAN 2.4GHz	DTS	13	18	
WLAN 5GHz	NII	13	13	
Bluetooth	BR	11.5	11.5	
WCDMA B2	RMC	25	18	
	HSDPA	24	17	
	HSUPA	23.5	16.5	
WCDMA B4	RMC	25	18	
	HSDPA	24	17	
	HSUPA	23.5	16.5	
WCDMA B5	RMC	24.5	24.5	
	HSDPA	23.5	23.5	
	HSUPA	23.5	23.5	
LTE Band 2	QPSK	25	18	
LTE Band 5	QPSK	24	24.5	
LTE Band 12	QPSK	24	24.5	
LTE Band 14	QPSK	24	24.5	
LTE Band 30	QPSK	24	18	
LTE Band 66(4)	QPSK	25	18	
NR n2	QPSK	25	18	
NR n5	QPSK	24	24.5	
NR n66	QPSK	25	18	

WLAN 2.4G 1TX SISO								
DSSS/OFDM mode specified maximum output power at an antenna port	Frequency	Mode	BW	CH	ANT6 DSI 1		ANT6 DSI 2	
					AV Power	AV Target	AV Power	AV Target
	WLAN 2.4GHz	b	20	1	12.44	13	16.75	18
				6	12.48	13	16.87	18
				11	12.39	13	16.61	18
		g	20	1	12.32	13	16.74	18
				6	12.44	13	16.73	18
				11	12.16	13	15.88	18
		n(HT)	20	1	12.16	13	16.68	18
				6	12.38	13	16.64	18
				11	12.06	13	15.85	18

WLAN 5G 1TX SISO												
OFDM mode specified maximum output power at an antenna port	Frequency	Mode	BW	ANT5			Frequency	Mode	BW	ANT5		
				DSI 1 & DSI 2						DSI 1 & DSI 2		
				CH	AV Power	AV Target				CH	AV Power	AV Target
	U-NII-1 (5180~5240MHz)	a	20	36	11.91	13	U-NII-2A (5260~5320MHz)	a	20	52	11.92	13
				40	11.56	13				56	11.65	13
				44	11.85	13				60	11.88	13
				48	11.94	13				64	11.92	13
		n(HT)	20	36	11.79	13		n(HT)	20	52	11.77	13
				40	11.54	13				56	11.58	13
				44	11.76	13				60	11.81	13
				48	11.81	13				64	11.83	13
			40	38	11.89	13			54	11.88	13	
				46	11.91	13			62	11.95	13	
		ac	80	42	11.85	13		ac	80	58	11.87	13
		U-NII-2C (5500~5720MHz)	a	20	100	11.93		13	U-NII-3 (5745~5825MHz)	a	20	149
	112				11.62	13	157	12.03				13
	116				11.87	13	165	12.11				13
	128				11.73	13	n(HT)	20		149	11.86	13
	132				11.75	13				157	11.91	13
	n(HT)		20	100	11.97	13				165	11.97	13
				112	11.62	13		40		151	12.11	13
				116	11.87	13				159	12.14	13
			128	11.69	13	ac	80	155		12.02	13	
			132	11.71	13							
	40		102	11.86	13							
			110	12.06	13							
			118	11.68	13							
			126	11.7	13							
			134	12.02	13							
	ac		80	106	11.92	13						
122				11.95	13							
138				11.99	13							

Bluetooth mode maximum output power	Frequency	Mode	Modulation	ANT6		
				CH	AV Power	AV Target
	BT 2.4GHz	BR	GFSK	0	6.89	11.50
				39	5.49	11.50
				78	9.97	11.50
		EDR	8DPSK	0	4.84	9.00
				39	3.43	9.00
				78	7.15	9.00
		BLE	GFSK	0	3.21	7.00
				19	3.37	7.00
				39	4.82	7.00

Band	WCDMA B2 DSI 1			WCDMA B4 DSI 1			WCDMA B5 DSI 1		
CHANNEL	9262	9400	9538	1312	1413	1513	4132	4183	4233
VOICE	23.19	23.45	23.94	23.46	23.55	23.54	23.80	23.92	23.78
RMC	23.26	23.48	24.00	23.49	23.56	23.57	23.60	23.69	23.60
HSDPA Set 1	22.12	22.35	22.91	22.39	22.50	22.54	22.69	22.84	22.71
HSDPA Set 2	22.24	22.42	23.00	22.28	22.57	22.48	22.90	22.95	22.83
HSDPA Set 3	22.28	22.59	23.19	22.45	22.66	22.66	23.13	23.13	22.97
HSDPA Set 4	21.96	22.19	22.74	22.07	22.31	22.29	22.41	22.56	22.33
HSUPA Set 1	20.53	20.86	21.45	20.91	21.02	20.73	21.08	21.19	21.06
HSUPA Set 2	20.64	20.84	21.44	20.87	20.98	21.04	21.07	21.18	21.03
HSUPA Set 3	21.12	21.37	21.93	21.38	21.48	21.55	21.54	21.69	21.58
HSUPA Set 4	20.59	20.88	21.43	20.85	20.99	20.94	20.57	20.72	20.59
HSUPA Set 5	20.64	20.89	21.11	20.61	20.98	20.95	20.85	20.71	21.08

Note: Unit : dBm

Band	WCDMA B2 DSI 2			WCDMA B4 DSI 2			WCDMA B5 DSI 2		
CHANNEL	9262	9400	9538	1312	1413	1513	4132	4183	4233
VOICE	16.62	16.64	16.72	16.50	16.48	16.41	23.80	23.92	23.78
RMC	16.81	16.90	16.78	16.55	16.57	16.44	23.60	23.69	23.60
HSDPA Set 1	15.71	15.67	15.86	15.56	15.42	15.57	22.69	22.84	22.71
HSDPA Set 2	15.53	15.57	15.63	15.40	15.36	15.40	22.90	22.95	22.83
HSDPA Set 3	16.06	15.89	15.88	15.66	15.69	15.64	23.13	23.13	22.97
HSDPA Set 4	15.99	15.85	15.84	15.47	15.48	15.45	22.41	22.56	22.33
HSUPA Set 1	14.18	13.67	13.69	13.52	13.42	13.49	21.08	21.19	21.06
HSUPA Set 2	14.15	14.16	14.34	14.11	14.05	14.14	21.07	21.18	21.03
HSUPA Set 3	14.58	14.67	14.82	14.60	14.53	14.61	21.54	21.69	21.58
HSUPA Set 4	14.10	13.65	13.84	13.56	13.50	13.61	23.80	23.92	23.78
HSUPA Set 5	14.09	13.69	13.79	13.53	13.47	13.57	23.60	23.69	23.60

Note: Unit : dBm

Channel	Modulation	LTE Band 2 DSI 1							
		RB	RB	Maximum Conducted Output Power					
		No.	Offset	1.4M	3M	5M	10M	15M	20M
Low	QPSK	1	#0	23.83	23.55	23.54	23.48	23.50	23.48
		1	#Mid	23.83	23.56	23.60	23.59	23.58	23.57
		1	#Max	23.82	23.54	23.55	23.49	23.45	23.40
		50%	#0	23.79	22.50	22.59	22.55	22.54	22.63
		50%	#Mid	23.81	22.54	22.58	22.54	22.52	22.60
		50%	#Max	23.79	22.52	22.51	22.40	22.51	22.61
		100%	--	22.82	22.55	22.54	22.51	22.56	22.64
	16QAM	1	#0	22.99	22.69	22.68	22.73	22.68	22.61
		1	#Mid	22.99	22.73	22.73	22.79	22.78	22.76
		1	#Max	22.98	22.73	22.72	22.68	22.64	22.59
		50%	#0	22.82	21.70	21.73	21.72	21.69	21.74
		50%	#Mid	22.81	21.72	21.67	21.67	21.68	21.71
		50%	#Max	22.81	21.70	21.63	21.50	21.63	21.72
		100%	--	21.98	21.70	21.67	21.63	21.71	21.71
	64QAM	1	#0	22.11	21.81	21.83	21.75	21.75	21.76
		1	#Mid	22.10	21.79	21.81	21.84	21.81	21.85
		1	#Max	22.12	21.79	21.83	21.72	21.72	21.73
		50%	#0	22.05	20.67	20.73	20.71	20.75	20.74
		50%	#Mid	22.01	20.69	20.67	20.67	20.64	20.70
		50%	#Max	22.03	20.68	20.66	20.51	20.65	20.71
		100%	--	20.88	20.67	20.65	20.59	20.66	20.71
Mid	QPSK	1	#0	23.85	23.62	23.63	23.53	23.61	23.46
		1	#Mid	23.85	23.62	23.66	23.62	23.61	23.59
		1	#Max	23.87	23.58	23.65	23.53	23.55	23.46
		50%	#0	23.89	22.60	22.67	22.65	22.59	22.73
		50%	#Mid	23.87	22.56	22.62	22.57	22.56	22.63
		50%	#Max	23.86	22.56	22.58	22.44	22.51	22.50
		100%	--	22.91	22.58	22.62	22.55	22.57	22.59
	16QAM	1	#0	23.04	22.81	22.74	22.75	22.76	22.64
		1	#Mid	23.05	22.83	22.84	22.85	22.76	22.80
		1	#Max	23.14	22.80	22.74	22.76	22.77	22.63

		50%	#0	22.90	21.80	21.77	21.75	21.77	21.82
		50%	#Mid	22.88	21.75	21.73	21.70	21.68	21.72
		50%	#Max	22.87	21.76	21.70	21.54	21.60	21.58
		100%	--	22.07	21.74	21.77	21.65	21.71	21.71
	64QAM	1	#0	22.15	21.89	21.86	21.76	21.78	21.83
		1	#Mid	22.16	21.82	21.85	21.76	21.82	21.86
		1	#Max	22.09	21.89	21.83	21.69	21.82	21.79
		50%	#0	22.11	20.74	20.80	20.76	20.75	20.82
		50%	#Mid	22.08	20.70	20.75	20.69	20.67	20.73
		50%	#Max	22.07	20.72	20.71	20.52	20.66	20.54
		100%	--	20.96	20.67	20.73	20.61	20.65	20.68
High	QPSK	1	#0	23.98	23.76	23.77	23.71	23.68	23.58
		1	#Mid	23.98	23.80	23.80	23.82	23.79	23.80
		1	#Max	23.98	23.75	23.74	23.70	23.65	23.59
		50%	#0	24.00	22.77	22.79	22.82	22.76	22.81
		50%	#Mid	24.00	22.74	22.79	22.74	22.74	22.80
		50%	#Max	24.00	22.72	22.69	22.56	22.66	22.58
		100%	--	23.04	22.75	22.78	22.72	22.72	22.66
	16QAM	1	#0	23.16	22.99	22.92	22.95	22.88	22.77
		1	#Mid	23.16	22.93	22.95	22.99	22.92	22.93
		1	#Max	23.15	22.94	22.83	22.86	22.83	22.71
		50%	#0	23.05	21.96	21.91	21.96	21.88	21.91
		50%	#Mid	23.05	21.94	21.90	21.88	21.89	21.91
		50%	#Max	23.03	21.92	21.83	21.70	21.79	21.70
		100%	--	22.20	21.93	21.90	21.87	21.84	21.76
	64QAM	1	#0	22.31	22.06	22.05	21.90	21.95	21.89
		1	#Mid	22.24	22.07	22.04	22.02	21.99	22.02
		1	#Max	22.27	22.01	21.96	21.92	21.90	21.89
		50%	#0	22.24	20.94	20.94	20.93	20.86	20.88
		50%	#Mid	22.21	20.91	20.91	20.84	20.90	20.89
		50%	#Max	22.21	20.90	20.82	20.69	20.80	20.69
		100%	--	21.10	20.87	20.90	20.85	20.81	20.76

Channel	Modulation	LTE Band 2 DSI 2							
		RB	RB	Maximum Conducted Output Power					
		No.	Offset	1.4M	3M	5M	10M	15M	20M
Low	QPSK	1	#0	16.33	16.31	16.62	16.35	16.30	16.88
		1	#Mid	16.37	16.35	16.62	16.50	16.59	16.68
		1	#Max	16.33	16.37	16.62	16.55	16.42	16.30
		50%	#0	16.39	15.42	16.61	15.44	15.50	15.75
		50%	#Mid	16.39	15.45	16.63	15.50	15.66	15.74
		50%	#Max	16.39	15.46	16.62	15.58	15.67	15.69
		100%	--	15.43	15.43	16.64	15.59	15.60	15.68
	16QAM	1	#0	15.65	15.68	15.96	15.66	15.65	15.65
		1	#Mid	15.66	15.72	15.97	15.81	15.93	15.93
		1	#Max	15.66	15.73	15.96	15.88	15.79	15.65
		50%	#0	15.50	14.47	15.74	14.46	14.53	14.66
		50%	#Mid	15.43	14.52	15.74	14.56	14.63	14.71
		50%	#Max	15.43	14.51	15.75	14.56	14.67	14.68
		100%	--	14.49	14.44	15.78	14.56	14.62	14.67
	64QAM	1	#0	14.54	14.58	14.83	14.56	14.61	14.50
		1	#Mid	14.53	14.58	14.80	14.68	14.84	14.77
		1	#Max	14.50	14.62	14.80	14.76	14.71	14.62
		50%	#0	14.52	13.45	14.78	13.46	13.53	13.67
		50%	#Mid	14.56	13.49	14.76	13.54	13.67	13.68
		50%	#Max	14.57	13.49	14.79	13.57	13.65	13.65
		100%	--	13.41	13.41	14.67	13.56	13.64	13.62
Mid	QPSK	1	#0	16.37	16.37	16.69	16.35	16.29	16.69
		1	#Mid	16.38	16.38	16.65	16.42	16.41	16.92
		1	#Max	16.34	16.36	16.63	16.48	16.51	16.56
		50%	#0	16.39	15.43	16.63	15.39	15.36	15.60
		50%	#Mid	16.38	15.45	16.63	15.46	15.47	15.50
		50%	#Max	16.42	15.45	16.62	15.46	15.47	15.55
		100%	--	15.48	15.45	16.66	15.45	15.48	15.45
	16QAM	1	#0	15.67	15.69	16.00	15.66	15.64	15.67
		1	#Mid	15.69	15.74	15.96	15.71	15.73	15.70
		1	#Max	15.63	15.67	15.93	15.76	15.83	15.82

		50%	#0	15.45	14.49	15.73	14.41	14.43	14.36
		50%	#Mid	15.43	14.53	15.73	14.44	14.44	14.48
		50%	#Max	15.44	14.53	15.73	14.47	14.52	14.53
		100%	--	14.51	14.47	15.78	14.46	14.48	14.40
	64QAM	1	#0	14.56	14.56	14.84	14.58	14.57	14.53
		1	#Mid	14.56	14.58	14.81	14.61	14.66	14.56
		1	#Max	14.62	14.55	14.83	14.68	14.73	14.73
		50%	#0	14.52	13.46	14.77	13.40	13.38	13.32
		50%	#Mid	14.50	13.48	14.76	13.45	13.46	13.52
		50%	#Max	14.52	13.47	14.77	13.44	13.48	13.50
		100%	--	13.43	13.47	14.69	13.45	13.46	13.43
High	QPSK	1	#0	16.56	16.51	16.75	16.36	16.50	16.66
		1	#Mid	16.59	16.54	16.72	16.46	16.37	16.67
		1	#Max	16.59	16.62	16.71	16.57	16.51	16.52
		50%	#0	16.62	15.62	16.73	15.51	15.53	15.63
		50%	#Mid	16.64	15.64	16.76	15.52	15.49	15.52
		50%	#Max	16.63	15.68	16.74	15.48	15.48	15.41
		100%	--	15.66	15.65	16.78	15.52	15.46	15.53
	16QAM	1	#0	15.87	15.79	16.00	15.66	15.85	15.91
		1	#Mid	15.89	15.90	16.00	15.74	15.67	15.68
		1	#Max	15.88	15.93	16.01	15.93	15.85	15.81
		50%	#0	15.69	14.68	15.80	14.51	14.47	14.62
		50%	#Mid	15.72	14.69	15.82	14.55	14.46	14.50
		50%	#Max	15.72	14.69	15.81	14.50	14.49	14.44
		100%	--	14.71	14.32	15.91	14.51	14.52	14.51
	64QAM	1	#0	14.77	14.45	14.92	14.54	14.78	14.84
		1	#Mid	14.77	14.54	14.91	14.65	14.62	14.51
		1	#Max	14.77	14.60	14.88	14.78	14.76	14.67
		50%	#0	14.74	13.47	14.80	13.47	13.52	13.66
		50%	#Mid	14.76	13.50	14.89	13.51	13.47	13.53
		50%	#Max	14.77	13.49	14.90	13.49	13.50	13.41
		100%	--	13.62	13.45	14.81	13.51	13.48	13.52

Channel	Modulation	LTE Band 4 DSI 1							
		RB	RB	Maximum Conducted Output Power					
		No.	Offset	1.4M	3M	5M	10M	15M	20M
Low	QPSK	1	#0	23.58	23.36	23.36	23.34	23.30	23.25
		1	#Mid	23.59	23.34	23.41	23.45	23.45	23.50
		1	#Max	23.60	23.35	23.40	23.38	23.40	23.39
		50%	#0	23.58	22.36	22.39	22.35	22.35	22.49
		50%	#Mid	23.59	22.33	22.34	22.37	22.35	22.47
		50%	#Max	23.58	22.33	22.35	22.28	22.34	22.42
		100%	--	22.60	22.35	22.34	22.33	22.38	22.45
	16QAM	1	#0	22.77	22.54	22.56	22.51	22.53	22.41
		1	#Mid	22.79	22.54	22.59	22.66	22.67	22.63
		1	#Max	22.77	22.56	22.57	22.63	22.64	22.57
		50%	#0	22.58	21.42	21.35	21.32	21.35	21.45
		50%	#Mid	22.59	21.40	21.34	21.36	21.37	21.44
		50%	#Max	22.62	21.40	21.33	21.25	21.35	21.39
		100%	--	21.63	21.36	21.36	21.31	21.39	21.43
	64QAM	1	#0	21.69	21.42	21.43	21.40	21.47	21.35
		1	#Mid	21.72	21.55	21.52	21.58	21.50	21.62
		1	#Max	21.68	21.46	21.45	21.51	21.48	21.51
		50%	#0	21.64	20.54	20.53	20.43	20.52	20.58
		50%	#Mid	21.66	20.50	20.50	20.52	20.48	20.56
		50%	#Max	21.65	20.51	20.48	20.39	20.46	20.50
		100%	--	20.65	20.46	20.46	20.44	20.48	20.55
Mid	QPSK	1	#0	23.80	23.55	23.57	23.52	23.54	23.46
		1	#Mid	23.83	23.61	23.60	23.63	23.61	23.61
		1	#Max	23.83	23.58	23.60	23.55	23.51	23.46
		50%	#0	23.86	22.56	22.60	22.51	22.50	22.53
		50%	#Mid	23.82	22.55	22.60	22.55	22.57	22.60
		50%	#Max	23.80	22.54	22.60	22.50	22.57	22.57
		100%	--	22.84	22.54	22.62	22.52	22.53	22.53
	16QAM	1	#0	23.03	22.85	22.83	22.74	22.74	22.61
		1	#Mid	23.06	22.85	22.85	22.87	22.86	22.84
		1	#Max	23.03	22.83	22.79	22.78	22.72	22.62

		50%	#0	22.83	21.64	21.57	21.52	21.52	21.51
		50%	#Mid	22.79	21.61	21.59	21.56	21.58	21.57
		50%	#Max	22.78	21.60	21.58	21.49	21.58	21.53
		100%	--	21.87	21.55	21.62	21.50	21.50	21.50
	64QAM	1	#0	21.89	21.71	21.71	21.66	21.55	21.49
		1	#Mid	21.96	21.69	21.76	21.79	21.70	21.73
		1	#Max	21.95	21.70	21.70	21.68	21.59	21.60
		50%	#0	21.91	20.75	20.71	20.63	20.64	20.62
		50%	#Mid	21.92	20.70	20.70	20.66	20.70	20.69
		50%	#Max	21.87	20.75	20.73	20.63	20.69	20.65
		100%	--	20.92	20.68	20.70	20.60	20.63	20.65
High	QPSK	1	#0	23.90	23.63	23.69	23.67	23.59	23.52
		1	#Mid	23.90	23.69	23.70	23.71	23.67	23.68
		1	#Max	23.92	23.68	23.70	23.61	23.59	23.56
		50%	#0	23.90	22.71	22.79	22.72	22.69	22.72
		50%	#Mid	23.95	22.67	22.69	22.64	22.66	22.64
		50%	#Max	23.95	22.67	22.63	22.48	22.56	22.41
		100%	--	22.93	22.65	22.69	22.64	22.65	22.59
	16QAM	1	#0	23.10	22.89	22.89	22.85	22.83	22.78
		1	#Mid	23.11	22.88	22.86	22.92	22.86	22.84
		1	#Max	23.12	22.82	22.86	22.81	22.80	22.64
		50%	#0	22.91	21.75	21.72	21.71	21.69	21.72
		50%	#Mid	22.93	21.73	21.68	21.67	21.66	21.66
		50%	#Max	22.92	21.72	21.58	21.47	21.53	21.40
		100%	--	21.99	21.66	21.70	21.61	21.63	21.56
	64QAM	1	#0	22.00	21.75	21.76	21.74	21.71	21.68
		1	#Mid	21.97	21.80	21.80	21.86	21.75	21.81
		1	#Max	22.00	21.79	21.77	21.73	21.63	21.66
		50%	#0	22.02	20.85	20.91	20.81	20.84	20.82
		50%	#Mid	22.03	20.82	20.82	20.75	20.77	20.77
		50%	#Max	22.00	20.81	20.76	20.56	20.68	20.53
		100%	--	21.04	20.73	20.82	20.75	20.73	20.68

Channel	Modulation	LTE Band 4 DSI 2							
		RB	RB	Maximum Conducted Output Power					
		No.	Offset	1.4M	3M	5M	10M	15M	20M
Low	QPSK	1	#0	16.37	16.42	16.45	16.42	16.40	16.41
		1	#Mid	16.38	16.44	16.46	16.43	16.38	16.47
		1	#Max	16.37	16.39	16.47	16.34	16.24	16.33
		50%	#0	16.43	15.49	15.56	15.53	15.51	15.60
		50%	#Mid	16.44	15.51	15.54	15.49	15.46	15.49
		50%	#Max	16.45	15.51	15.47	15.44	15.41	15.44
		100%	--	15.45	15.49	15.52	15.52	15.49	15.54
	16QAM	1	#0	15.92	15.97	16.01	16.04	15.88	15.90
		1	#Mid	15.92	15.98	15.99	15.99	15.76	15.94
		1	#Max	15.94	15.88	15.96	15.94	15.54	15.77
		50%	#0	15.43	14.55	14.48	14.52	14.49	14.56
		50%	#Mid	15.43	14.55	14.51	14.55	14.45	14.44
		50%	#Max	15.41	14.55	14.43	14.45	14.41	14.40
		100%	--	14.49	14.49	14.50	14.49	14.39	14.47
	64QAM	1	#0	14.37	14.58	14.79	14.42	14.72	14.72
		1	#Mid	14.39	14.60	14.79	14.37	14.69	14.74
		1	#Max	14.34	14.48	14.80	14.33	14.60	14.59
		50%	#0	14.55	13.42	13.52	13.57	13.46	13.53
		50%	#Mid	14.56	13.45	13.50	13.50	13.39	13.46
		50%	#Max	14.56	13.44	13.45	13.39	13.38	13.37
		100%	--	13.44	13.57	13.46	13.54	13.37	13.44
Mid	QPSK	1	#0	16.42	16.33	16.51	16.46	16.32	16.33
		1	#Mid	16.45	16.44	16.55	16.58	16.46	16.56
		1	#Max	16.43	16.41	16.57	16.49	16.39	16.44
		50%	#0	16.42	15.47	15.52	15.46	15.45	15.45
		50%	#Mid	16.46	15.53	15.55	15.52	15.50	15.58
		50%	#Max	16.44	15.52	15.58	15.58	15.60	15.67
		100%	--	15.52	15.54	15.58	15.58	15.57	15.55
	16QAM	1	#0	15.95	15.67	15.97	15.99	15.63	15.78
		1	#Mid	15.98	15.80	16.06	16.07	15.73	16.00
		1	#Max	15.92	15.80	16.05	16.07	15.63	15.83

		50%	#0	15.50	14.57	14.48	14.51	14.45	14.43
		50%	#Mid	15.51	14.60	14.52	14.61	14.52	14.52
		50%	#Max	15.51	14.62	14.57	14.67	14.64	14.66
		100%	--	14.54	14.54	14.53	14.56	14.53	14.51
	64QAM	1	#0	14.59	14.58	14.72	14.52	14.69	14.53
		1	#Mid	14.66	14.63	14.78	14.69	14.87	14.78
		1	#Max	14.63	14.59	14.77	14.62	14.78	14.63
		50%	#0	14.68	13.47	13.46	13.53	13.45	13.39
		50%	#Mid	14.70	13.52	13.51	13.60	13.57	13.50
		50%	#Max	14.69	13.50	13.56	13.63	13.63	13.65
		100%	--	13.42	13.47	13.54	13.51	13.47	13.49
High	QPSK	1	#0	16.53	16.45	16.62	16.54	16.49	16.54
		1	#Mid	16.59	16.48	16.63	16.56	16.55	16.65
		1	#Max	16.59	16.50	16.66	16.52	16.48	16.48
		50%	#0	16.57	15.63	15.71	15.69	15.60	15.63
		50%	#Mid	16.57	15.64	15.66	15.62	15.62	15.62
		50%	#Max	16.58	15.63	15.64	15.54	15.56	15.48
		100%	--	15.63	15.64	15.68	15.64	15.60	15.53
	16QAM	1	#0	15.83	15.86	15.86	15.90	15.71	15.78
		1	#Mid	15.86	15.93	15.85	15.93	15.74	15.79
		1	#Max	15.86	15.93	15.88	15.88	15.64	15.66
		50%	#0	15.64	14.62	14.72	14.75	14.65	14.64
		50%	#Mid	15.65	14.61	14.68	14.65	14.66	14.63
		50%	#Max	15.66	14.62	14.65	14.57	14.57	14.44
		100%	--	14.69	14.62	14.72	14.64	14.59	14.52
	64QAM	1	#0	14.70	14.74	14.88	14.73	14.66	14.80
		1	#Mid	14.72	14.80	14.89	14.74	14.67	14.86
		1	#Max	14.69	14.82	14.90	14.70	14.61	14.72
		50%	#0	14.53	13.64	13.74	13.64	13.60	13.65
		50%	#Mid	14.52	13.68	13.70	13.57	13.57	13.64
		50%	#Max	14.50	13.64	13.69	13.54	13.51	13.48
		100%	--	13.53	13.60	13.66	13.62	13.55	13.51

Channel	Modulation	LTE Band 5 DSI 1							
		RB	RB	Maximum Conducted Output Power					
		No.	Offset	1.4M	3M	5M	10M	15M	20M
Low	QPSK	1	#0	22.99	22.86	22.82	22.72	--	--
		1	#Mid	23.01	22.91	22.87	22.93	--	--
		1	#Max	22.98	22.87	22.86	22.81	--	--
		50%	#0	23.00	22.03	21.96	21.92	--	--
		50%	#Mid	23.03	22.05	22.00	21.97	--	--
		50%	#Max	23.04	22.04	22.04	21.92	--	--
		100%	--	22.17	22.00	21.99	21.93	--	--
	16QAM	1	#0	22.39	22.28	22.26	22.23	--	--
		1	#Mid	22.41	22.28	22.25	22.26	--	--
		1	#Max	22.42	22.29	22.31	22.23	--	--
		50%	#0	22.08	21.07	20.95	20.92	--	--
		50%	#Mid	22.15	21.09	20.97	20.99	--	--
		50%	#Max	22.16	21.10	21.00	20.94	--	--
		100%	--	21.21	21.01	20.98	20.96	--	--
	64QAM	1	#0	21.22	21.14	21.13	21.12	--	--
		1	#Mid	21.23	21.19	21.16	21.11	--	--
		1	#Max	21.24	21.19	21.14	21.11	--	--
		50%	#0	21.22	20.04	19.96	19.92	--	--
		50%	#Mid	21.22	20.06	20.01	19.98	--	--
		50%	#Max	21.26	20.07	20.03	19.91	--	--
		100%	--	20.12	20.03	19.98	19.92	--	--
Mid	QPSK	1	#0	23.02	22.88	22.85	22.78	--	--
		1	#Mid	23.03	22.92	22.92	22.94	--	--
		1	#Max	23.03	22.89	22.85	22.79	--	--
		50%	#0	23.07	22.03	22.09	22.03	--	--
		50%	#Mid	23.03	22.08	22.05	22.00	--	--
		50%	#Max	23.03	22.04	21.98	21.89	--	--
		100%	--	22.17	22.06	22.01	21.97	--	--
	16QAM	1	#0	22.39	22.30	22.26	22.25	--	--
		1	#Mid	22.36	22.29	22.26	22.28	--	--
		1	#Max	22.38	22.27	22.22	22.18	--	--

		50%	#0	22.14	21.09	21.06	21.05	--	--
		50%	#Mid	22.17	21.12	21.02	21.05	--	--
		50%	#Max	22.12	21.09	20.95	20.89	--	--
		100%	--	21.21	21.07	21.00	20.96	--	--
	64QAM	1	#0	21.22	21.19	21.14	21.10	--	--
		1	#Mid	21.31	21.19	21.13	21.12	--	--
		1	#Max	21.18	21.12	21.08	21.02	--	--
		50%	#0	21.26	20.06	20.07	20.05	--	--
		50%	#Mid	21.23	20.08	20.04	19.98	--	--
		50%	#Max	21.17	20.05	19.97	19.86	--	--
		100%	--	20.14	20.04	19.99	19.95	--	--
High	QPSK	1	#0	22.82	22.74	22.74	22.74	--	--
		1	#Mid	22.83	22.74	22.76	22.83	--	--
		1	#Max	22.82	22.68	22.72	22.64	--	--
		50%	#0	22.85	21.90	21.95	21.96	--	--
		50%	#Mid	22.87	21.87	21.85	21.89	--	--
		50%	#Max	22.87	21.85	21.79	21.72	--	--
		100%	--	21.97	21.89	21.89	21.85	--	--
	16QAM	1	#0	22.22	22.15	22.15	22.18	--	--
		1	#Mid	22.22	22.13	22.10	22.21	--	--
		1	#Max	22.20	22.13	22.10	22.06	--	--
		50%	#0	21.97	20.97	20.92	20.96	--	--
		50%	#Mid	21.94	20.95	20.84	20.93	--	--
		50%	#Max	21.95	20.88	20.75	20.70	--	--
		100%	--	20.99	20.93	20.88	20.86	--	--
	64QAM	1	#0	21.04	20.99	21.00	21.02	--	--
		1	#Mid	21.01	20.99	21.04	21.01	--	--
		1	#Max	20.98	20.97	20.92	20.92	--	--
		50%	#0	21.06	19.88	19.92	19.94	--	--
		50%	#Mid	21.05	19.90	19.85	19.89	--	--
		50%	#Max	21.04	19.86	19.80	19.70	--	--
		100%	--	19.94	19.84	19.85	19.83	--	--

Channel	Modulation	LTE Band 5 DSI 2							
		RB	RB	Maximum Conducted Output Power					
		No.	Offset	1.4M	3M	5M	10M	15M	20M
Low	QPSK	1	#0	22.99	22.86	22.82	22.72	--	--
		1	#Mid	23.01	22.91	22.87	22.93	--	--
		1	#Max	22.98	22.87	22.86	22.81	--	--
		50%	#0	23.00	22.03	21.96	21.92	--	--
		50%	#Mid	23.03	22.05	22.00	21.97	--	--
		50%	#Max	23.04	22.04	22.04	21.92	--	--
		100%	--	22.17	22.00	21.99	21.93	--	--
	16QAM	1	#0	22.39	22.28	22.26	22.23	--	--
		1	#Mid	22.41	22.28	22.25	22.26	--	--
		1	#Max	22.42	22.29	22.31	22.23	--	--
		50%	#0	22.08	21.07	20.95	20.92	--	--
		50%	#Mid	22.15	21.09	20.97	20.99	--	--
		50%	#Max	22.16	21.10	21.00	20.94	--	--
		100%	--	21.21	21.01	20.98	20.96	--	--
	64QAM	1	#0	21.22	21.14	21.13	21.12	--	--
		1	#Mid	21.23	21.19	21.16	21.11	--	--
		1	#Max	21.24	21.19	21.14	21.11	--	--
		50%	#0	21.22	20.04	19.96	19.92	--	--
		50%	#Mid	21.22	20.06	20.01	19.98	--	--
		50%	#Max	21.26	20.07	20.03	19.91	--	--
		100%	--	20.12	20.03	19.98	19.92	--	--
Mid	QPSK	1	#0	23.02	22.88	22.85	22.78	--	--
		1	#Mid	23.03	22.92	22.92	22.94	--	--
		1	#Max	23.03	22.89	22.85	22.79	--	--
		50%	#0	23.07	22.03	22.09	22.03	--	--
		50%	#Mid	23.03	22.08	22.05	22.00	--	--
		50%	#Max	23.03	22.04	21.98	21.89	--	--
		100%	--	22.17	22.06	22.01	21.97	--	--
	16QAM	1	#0	22.39	22.30	22.26	22.25	--	--
		1	#Mid	22.36	22.29	22.26	22.28	--	--
		1	#Max	22.38	22.27	22.22	22.18	--	--

		50%	#0	22.14	21.09	21.06	21.05	--	--
		50%	#Mid	22.17	21.12	21.02	21.05	--	--
		50%	#Max	22.12	21.09	20.95	20.89	--	--
		100%	--	21.21	21.07	21.00	20.96	--	--
	64QAM	1	#0	21.22	21.19	21.14	21.10	--	--
		1	#Mid	21.31	21.19	21.13	21.12	--	--
		1	#Max	21.18	21.12	21.08	21.02	--	--
		50%	#0	21.26	20.06	20.07	20.05	--	--
		50%	#Mid	21.23	20.08	20.04	19.98	--	--
		50%	#Max	21.17	20.05	19.97	19.86	--	--
		100%	--	20.14	20.04	19.99	19.95	--	--
High	QPSK	1	#0	22.82	22.74	22.74	22.74	--	--
		1	#Mid	22.83	22.74	22.76	22.83	--	--
		1	#Max	22.82	22.68	22.72	22.64	--	--
		50%	#0	22.85	21.90	21.95	21.96	--	--
		50%	#Mid	22.87	21.87	21.85	21.89	--	--
		50%	#Max	22.87	21.85	21.79	21.72	--	--
		100%	--	21.97	21.89	21.89	21.85	--	--
	16QAM	1	#0	22.22	22.15	22.15	22.18	--	--
		1	#Mid	22.22	22.13	22.10	22.21	--	--
		1	#Max	22.20	22.13	22.10	22.06	--	--
		50%	#0	21.97	20.97	20.92	20.96	--	--
		50%	#Mid	21.94	20.95	20.84	20.93	--	--
		50%	#Max	21.95	20.88	20.75	20.70	--	--
		100%	--	20.99	20.93	20.88	20.86	--	--
	64QAM	1	#0	21.04	20.99	21.00	21.02	--	--
		1	#Mid	21.01	20.99	21.04	21.01	--	--
		1	#Max	20.98	20.97	20.92	20.92	--	--
		50%	#0	21.06	19.88	19.92	19.94	--	--
		50%	#Mid	21.05	19.90	19.85	19.89	--	--
		50%	#Max	21.04	19.86	19.80	19.70	--	--
		100%	--	19.94	19.84	19.85	19.83	--	--

Channel	Modulation	LTE Band 12 DSI 1							
		RB	RB	Maximum Conducted Output Power					
		No.	Offset	1.4M	3M	5M	10M	15M	20M
Low	QPSK	1	#0	23.39	23.36	23.30	23.23	--	--
		1	#Mid	23.40	23.38	23.29	23.30	--	--
		1	#Max	23.40	23.34	23.28	23.26	--	--
		50%	#0	23.36	22.31	22.27	22.11	--	--
		50%	#Mid	23.36	22.29	22.23	22.26	--	--
		50%	#Max	23.37	22.28	22.30	22.14	--	--
		100%	--	22.36	22.30	22.30	22.12	--	--
	16QAM	1	#0	22.60	22.60	22.50	22.42	--	--
		1	#Mid	22.65	22.59	22.52	22.49	--	--
		1	#Max	22.63	22.57	22.53	22.42	--	--
		50%	#0	22.32	21.35	21.24	21.14	--	--
		50%	#Mid	22.38	21.34	21.23	21.25	--	--
		50%	#Max	22.35	21.38	21.26	21.16	--	--
		100%	--	21.42	21.31	21.29	21.12	--	--
	64QAM	1	#0	21.41	21.41	21.40	21.26	--	--
		1	#Mid	21.51	21.43	21.37	21.33	--	--
		1	#Max	21.40	21.44	21.41	21.29	--	--
		50%	#0	21.44	20.30	20.25	20.13	--	--
		50%	#Mid	21.44	20.28	20.24	20.22	--	--
		50%	#Max	21.43	20.33	20.33	20.13	--	--
		100%	--	20.31	20.30	20.28	20.10	--	--
Mid	QPSK	1	#0	23.31	23.26	23.24	23.17	--	--
		1	#Mid	23.31	23.31	23.27	23.26	--	--
		1	#Max	23.32	23.35	23.31	23.30	--	--
		50%	#0	23.33	22.27	22.28	22.13	--	--
		50%	#Mid	23.31	22.25	22.25	22.24	--	--
		50%	#Max	23.32	22.25	22.15	22.06	--	--
		100%	--	22.32	22.25	22.21	22.12	--	--
	16QAM	1	#0	22.54	22.52	22.43	22.44	--	--
		1	#Mid	22.51	22.54	22.43	22.45	--	--
		1	#Max	22.49	22.53	22.47	22.49	--	--

		50%	#0	22.30	21.34	21.23	21.14	--	--
		50%	#Mid	22.27	21.29	21.22	21.25	--	--
		50%	#Max	22.27	21.30	21.15	21.07	--	--
		100%	--	21.35	21.28	21.20	21.11	--	--
	64QAM	1	#0	21.37	21.36	21.30	21.24	--	--
		1	#Mid	21.39	21.36	21.38	21.30	--	--
		1	#Max	21.43	21.40	21.33	21.35	--	--
		50%	#0	21.41	20.29	20.26	20.11	--	--
		50%	#Mid	21.38	20.25	20.25	20.22	--	--
		50%	#Max	21.40	20.27	20.17	20.05	--	--
		100%	--	20.30	20.25	20.17	20.07	--	--
High	QPSK	1	#0	23.33	23.33	23.25	23.16	--	--
		1	#Mid	23.34	23.36	23.29	23.30	--	--
		1	#Max	23.38	23.37	23.32	23.29	--	--
		50%	#0	23.36	22.31	22.30	22.25	--	--
		50%	#Mid	23.37	22.30	22.26	22.25	--	--
		50%	#Max	23.37	22.28	22.24	22.14	--	--
		100%	--	22.37	22.30	22.28	22.24	--	--
	16QAM	1	#0	22.57	22.58	22.45	22.36	--	--
		1	#Mid	22.57	22.60	22.50	22.48	--	--
		1	#Max	22.58	22.56	22.54	22.48	--	--
		50%	#0	22.33	21.35	21.26	21.26	--	--
		50%	#Mid	22.34	21.34	21.22	21.25	--	--
		50%	#Max	22.29	21.35	21.23	21.16	--	--
		100%	--	21.40	21.31	21.26	21.23	--	--
	64QAM	1	#0	21.37	21.38	21.33	21.21	--	--
		1	#Mid	21.39	21.38	21.36	21.33	--	--
		1	#Max	21.38	21.39	21.41	21.31	--	--
		50%	#0	21.42	20.30	20.29	20.24	--	--
		50%	#Mid	21.44	20.31	20.24	20.24	--	--
		50%	#Max	21.43	20.31	20.26	20.11	--	--
		100%	--	20.31	20.31	20.26	20.21	--	--

Channel	Modulation	LTE Band 12 DSI 2							
		RB	RB	Maximum Conducted Output Power					
		No.	Offset	1.4M	3M	5M	10M	15M	20M
Low	QPSK	1	#0	23.39	23.36	23.30	23.23	--	--
		1	#Mid	23.40	23.38	23.29	23.30	--	--
		1	#Max	23.40	23.34	23.28	23.26	--	--
		50%	#0	23.36	22.31	22.27	22.11	--	--
		50%	#Mid	23.36	22.29	22.23	22.26	--	--
		50%	#Max	23.37	22.28	22.30	22.14	--	--
		100%	--	22.36	22.30	22.30	22.12	--	--
	16QAM	1	#0	22.60	22.60	22.50	22.42	--	--
		1	#Mid	22.65	22.59	22.52	22.49	--	--
		1	#Max	22.63	22.57	22.53	22.42	--	--
		50%	#0	22.32	21.35	21.24	21.14	--	--
		50%	#Mid	22.38	21.34	21.23	21.25	--	--
		50%	#Max	22.35	21.38	21.26	21.16	--	--
		100%	--	21.42	21.31	21.29	21.12	--	--
	64QAM	1	#0	21.41	21.41	21.40	21.26	--	--
		1	#Mid	21.51	21.43	21.37	21.33	--	--
		1	#Max	21.40	21.44	21.41	21.29	--	--
		50%	#0	21.44	20.30	20.25	20.13	--	--
		50%	#Mid	21.44	20.28	20.24	20.22	--	--
		50%	#Max	21.43	20.33	20.33	20.13	--	--
		100%	--	20.31	20.30	20.28	20.10	--	--
Mid	QPSK	1	#0	23.31	23.26	23.24	23.17	--	--
		1	#Mid	23.31	23.31	23.27	23.26	--	--
		1	#Max	23.32	23.35	23.31	23.30	--	--
		50%	#0	23.33	22.27	22.28	22.13	--	--
		50%	#Mid	23.31	22.25	22.25	22.24	--	--
		50%	#Max	23.32	22.25	22.15	22.06	--	--
		100%	--	22.32	22.25	22.21	22.12	--	--
	16QAM	1	#0	22.54	22.52	22.43	22.44	--	--
		1	#Mid	22.51	22.54	22.43	22.45	--	--
		1	#Max	22.49	22.53	22.47	22.49	--	--

		50%	#0	22.30	21.34	21.23	21.14	--	--
		50%	#Mid	22.27	21.29	21.22	21.25	--	--
		50%	#Max	22.27	21.30	21.15	21.07	--	--
		100%	--	21.35	21.28	21.20	21.11	--	--
	64QAM	1	#0	21.37	21.36	21.30	21.24	--	--
		1	#Mid	21.39	21.36	21.38	21.30	--	--
		1	#Max	21.43	21.40	21.33	21.35	--	--
		50%	#0	21.41	20.29	20.26	20.11	--	--
		50%	#Mid	21.38	20.25	20.25	20.22	--	--
		50%	#Max	21.40	20.27	20.17	20.05	--	--
		100%	--	20.30	20.25	20.17	20.07	--	--
High	QPSK	1	#0	23.33	23.33	23.25	23.16	--	--
		1	#Mid	23.34	23.36	23.29	23.30	--	--
		1	#Max	23.38	23.37	23.32	23.29	--	--
		50%	#0	23.36	22.31	22.30	22.25	--	--
		50%	#Mid	23.37	22.30	22.26	22.25	--	--
		50%	#Max	23.37	22.28	22.24	22.14	--	--
		100%	--	22.37	22.30	22.28	22.24	--	--
	16QAM	1	#0	22.57	22.58	22.45	22.36	--	--
		1	#Mid	22.57	22.60	22.50	22.48	--	--
		1	#Max	22.58	22.56	22.54	22.48	--	--
		50%	#0	22.33	21.35	21.26	21.26	--	--
		50%	#Mid	22.34	21.34	21.22	21.25	--	--
		50%	#Max	22.29	21.35	21.23	21.16	--	--
		100%	--	21.40	21.31	21.26	21.23	--	--
	64QAM	1	#0	21.37	21.38	21.33	21.21	--	--
		1	#Mid	21.39	21.38	21.36	21.33	--	--
		1	#Max	21.38	21.39	21.41	21.31	--	--
		50%	#0	21.42	20.30	20.29	20.24	--	--
		50%	#Mid	21.44	20.31	20.24	20.24	--	--
		50%	#Max	21.43	20.31	20.26	20.11	--	--
		100%	--	20.31	20.31	20.26	20.21	--	--

Channel	Modulation	LTE Band 14 DSI 1							
		RB	RB	Maximum Conducted Output Power					
		No.	Offset	1.4M	3M	5M	10M	15M	20M
Low	QPSK	1	#0	--	--	23.09	--	--	--
		1	#Mid	--	--	23.23	--	--	--
		1	#Max	--	--	23.19	--	--	--
		50%	#0	--	--	22.14	--	--	--
		50%	#Mid	--	--	22.34	--	--	--
		50%	#Max	--	--	22.27	--	--	--
		100%	--	--	--	22.22	--	--	--
	16QAM	1	#0	--	--	22.59	--	--	--
		1	#Mid	--	--	22.56	--	--	--
		1	#Max	--	--	22.52	--	--	--
		50%	#0	--	--	21.15	--	--	--
		50%	#Mid	--	--	21.30	--	--	--
		50%	#Max	--	--	21.25	--	--	--
		100%	--	--	--	21.20	--	--	--
	64QAM	1	#0	--	--	21.46	--	--	--
		1	#Mid	--	--	21.44	--	--	--
		1	#Max	--	--	21.46	--	--	--
		50%	#0	--	--	20.16	--	--	--
		50%	#Mid	--	--	20.32	--	--	--
		50%	#Max	--	--	20.30	--	--	--
		100%	--	--	--	20.20	--	--	--
Mid	QPSK	1	#0	--	--	23.16	23.00	--	--
		1	#Mid	--	--	23.25	23.32	--	--
		1	#Max	--	--	23.18	23.02	--	--
		50%	#0	--	--	22.47	22.25	--	--
		50%	#Mid	--	--	22.37	22.33	--	--
		50%	#Max	--	--	22.24	22.25	--	--
		100%	--	--	--	22.34	22.28	--	--
	16QAM	1	#0	--	--	22.53	22.57	--	--
		1	#Mid	--	--	22.52	22.50	--	--
		1	#Max	--	--	22.58	22.58	--	--

		50%	#0	--	--	21.41	21.26	--	--
		50%	#Mid	--	--	21.36	21.37	--	--
		50%	#Max	--	--	21.21	21.24	--	--
		100%	--	--	--	21.31	21.28	--	--
	64QAM	1	#0	--	--	21.43	21.32	--	--
		1	#Mid	--	--	21.42	21.40	--	--
		1	#Max	--	--	21.45	21.31	--	--
		50%	#0	--	--	20.46	20.20	--	--
		50%	#Mid	--	--	20.37	20.32	--	--
		50%	#Max	--	--	20.22	20.22	--	--
		100%	--	--	--	20.30	20.21	--	--
High	QPSK	1	#0	--	--	23.20	--	--	--
		1	#Mid	--	--	23.22	--	--	--
		1	#Max	--	--	23.10	--	--	--
		50%	#0	--	--	22.42	--	--	--
		50%	#Mid	--	--	22.32	--	--	--
		50%	#Max	--	--	22.39	--	--	--
		100%	--	--	--	22.42	--	--	--
	16QAM	1	#0	--	--	22.52	--	--	--
		1	#Mid	--	--	22.59	--	--	--
		1	#Max	--	--	22.54	--	--	--
		50%	#0	--	--	21.39	--	--	--
		50%	#Mid	--	--	21.30	--	--	--
		50%	#Max	--	--	21.34	--	--	--
		100%	--	--	--	21.41	--	--	--
	64QAM	1	#0	--	--	21.39	--	--	--
		1	#Mid	--	--	21.48	--	--	--
		1	#Max	--	--	21.40	--	--	--
		50%	#0	--	--	20.43	--	--	--
		50%	#Mid	--	--	20.32	--	--	--
		50%	#Max	--	--	20.38	--	--	--
		100%	--	--	--	20.39	--	--	--

Channel	Modulation	LTE Band 14 DSI 2							
		RB	RB	Maximum Conducted Output Power					
		No.	Offset	1.4M	3M	5M	10M	15M	20M
Low	QPSK	1	#0	--	--	23.09	--	--	--
		1	#Mid	--	--	23.23	--	--	--
		1	#Max	--	--	23.19	--	--	--
		50%	#0	--	--	22.14	--	--	--
		50%	#Mid	--	--	22.34	--	--	--
		50%	#Max	--	--	22.27	--	--	--
		100%	--	--	--	22.22	--	--	--
	16QAM	1	#0	--	--	22.59	--	--	--
		1	#Mid	--	--	22.56	--	--	--
		1	#Max	--	--	22.52	--	--	--
		50%	#0	--	--	21.15	--	--	--
		50%	#Mid	--	--	21.30	--	--	--
		50%	#Max	--	--	21.25	--	--	--
		100%	--	--	--	21.20	--	--	--
	64QAM	1	#0	--	--	21.46	--	--	--
		1	#Mid	--	--	21.44	--	--	--
		1	#Max	--	--	21.46	--	--	--
		50%	#0	--	--	20.16	--	--	--
		50%	#Mid	--	--	20.32	--	--	--
		50%	#Max	--	--	20.30	--	--	--
		100%	--	--	--	20.20	--	--	--
Mid	QPSK	1	#0	--	--	23.16	23.00	--	--
		1	#Mid	--	--	23.25	23.32	--	--
		1	#Max	--	--	23.18	23.02	--	--
		50%	#0	--	--	22.47	22.25	--	--
		50%	#Mid	--	--	22.37	22.33	--	--
		50%	#Max	--	--	22.24	22.25	--	--
		100%	--	--	--	22.34	22.28	--	--
	16QAM	1	#0	--	--	22.53	22.57	--	--
		1	#Mid	--	--	22.52	22.50	--	--
		1	#Max	--	--	22.58	22.58	--	--

		50%	#0	--	--	21.41	21.26	--	--
		50%	#Mid	--	--	21.36	21.37	--	--
		50%	#Max	--	--	21.21	21.24	--	--
		100%	--	--	--	21.31	21.28	--	--
	64QAM	1	#0	--	--	21.43	21.32	--	--
		1	#Mid	--	--	21.42	21.40	--	--
		1	#Max	--	--	21.45	21.31	--	--
		50%	#0	--	--	20.46	20.20	--	--
		50%	#Mid	--	--	20.37	20.32	--	--
		50%	#Max	--	--	20.22	20.22	--	--
		100%	--	--	--	20.30	20.21	--	--
High	QPSK	1	#0	--	--	23.20	--	--	--
		1	#Mid	--	--	23.22	--	--	--
		1	#Max	--	--	23.10	--	--	--
		50%	#0	--	--	22.42	--	--	--
		50%	#Mid	--	--	22.32	--	--	--
		50%	#Max	--	--	22.39	--	--	--
		100%	--	--	--	22.42	--	--	--
	16QAM	1	#0	--	--	22.52	--	--	--
		1	#Mid	--	--	22.59	--	--	--
		1	#Max	--	--	22.54	--	--	--
		50%	#0	--	--	21.39	--	--	--
		50%	#Mid	--	--	21.30	--	--	--
		50%	#Max	--	--	21.34	--	--	--
		100%	--	--	--	21.41	--	--	--
	64QAM	1	#0	--	--	21.39	--	--	--
		1	#Mid	--	--	21.48	--	--	--
		1	#Max	--	--	21.40	--	--	--
		50%	#0	--	--	20.43	--	--	--
		50%	#Mid	--	--	20.32	--	--	--
		50%	#Max	--	--	20.38	--	--	--
		100%	--	--	--	20.39	--	--	--

Channel	Modulation	LTE Band 30 DSI 1							
		RB	RB	Maximum Conducted Output Power					
		No.	Offset	1.4M	3M	5M	10M	15M	20M
Low	QPSK	1	#0	--	--	23.23	--	--	--
		1	#Mid	--	--	23.23	--	--	--
		1	#Max	--	--	23.21	--	--	--
		50%	#0	--	--	22.25	--	--	--
		50%	#Mid	--	--	22.23	--	--	--
		50%	#Max	--	--	22.24	--	--	--
		100%	--	--	--	22.25	--	--	--
	16QAM	1	#0	--	--	22.42	--	--	--
		1	#Mid	--	--	22.42	--	--	--
		1	#Max	--	--	22.48	--	--	--
		50%	#0	--	--	21.23	--	--	--
		50%	#Mid	--	--	21.20	--	--	--
		50%	#Max	--	--	21.22	--	--	--
		100%	--	--	--	21.25	--	--	--
	64QAM	1	#0	--	--	21.34	--	--	--
		1	#Mid	--	--	21.39	--	--	--
		1	#Max	--	--	21.34	--	--	--
		50%	#0	--	--	20.23	--	--	--
		50%	#Mid	--	--	20.19	--	--	--
		50%	#Max	--	--	20.21	--	--	--
		100%	--	--	--	20.21	--	--	--
Mid	QPSK	1	#0	--	--	23.22	23.14	--	--
		1	#Mid	--	--	23.21	23.20	--	--
		1	#Max	--	--	23.21	23.11	--	--
		50%	#0	--	--	22.24	22.12	--	--
		50%	#Mid	--	--	22.24	22.16	--	--
		50%	#Max	--	--	22.18	22.12	--	--
		100%	--	--	--	22.20	22.17	--	--
	16QAM	1	#0	--	--	22.44	22.34	--	--
		1	#Mid	--	--	22.45	22.45	--	--
		1	#Max	--	--	22.43	22.32	--	--

		50%	#0	--	--	21.20	21.14	--	--
		50%	#Mid	--	--	21.21	21.19	--	--
		50%	#Max	--	--	21.17	21.13	--	--
		100%	--	--	--	21.20	21.17	--	--
	64QAM	1	#0	--	--	21.34	21.26	--	--
		1	#Mid	--	--	21.34	21.35	--	--
		1	#Max	--	--	21.29	21.23	--	--
		50%	#0	--	--	20.21	20.15	--	--
		50%	#Mid	--	--	20.22	20.20	--	--
		50%	#Max	--	--	20.17	20.14	--	--
		100%	--	--	--	20.19	20.13	--	--
High	QPSK	1	#0	--	--	23.24	--	--	--
		1	#Mid	--	--	23.27	--	--	--
		1	#Max	--	--	23.26	--	--	--
		50%	#0	--	--	22.25	--	--	--
		50%	#Mid	--	--	22.25	--	--	--
		50%	#Max	--	--	22.21	--	--	--
		100%	--	--	--	22.25	--	--	--
	16QAM	1	#0	--	--	22.47	--	--	--
		1	#Mid	--	--	22.44	--	--	--
		1	#Max	--	--	22.42	--	--	--
		50%	#0	--	--	21.20	--	--	--
		50%	#Mid	--	--	21.20	--	--	--
		50%	#Max	--	--	21.17	--	--	--
		100%	--	--	--	21.22	--	--	--
	64QAM	1	#0	--	--	21.32	--	--	--
		1	#Mid	--	--	21.36	--	--	--
		1	#Max	--	--	21.27	--	--	--
		50%	#0	--	--	20.23	--	--	--
		50%	#Mid	--	--	20.23	--	--	--
		50%	#Max	--	--	20.20	--	--	--
		100%	--	--	--	20.21	--	--	--

Channel	Modulation	LTE Band 30 DSI 2							
		RB	RB	Maximum Conducted Output Power					
		No.	Offset	1.4M	3M	5M	10M	15M	20M
Low	QPSK	1	#0	--	--	16.15	--	--	--
		1	#Mid	--	--	16.17	--	--	--
		1	#Max	--	--	16.15	--	--	--
		50%	#0	--	--	15.25	--	--	--
		50%	#Mid	--	--	15.12	--	--	--
		50%	#Max	--	--	15.16	--	--	--
		100%	--	--	--	15.22	--	--	--
	16QAM	1	#0	--	--	15.45	--	--	--
		1	#Mid	--	--	15.46	--	--	--
		1	#Max	--	--	15.47	--	--	--
		50%	#0	--	--	14.23	--	--	--
		50%	#Mid	--	--	14.17	--	--	--
		50%	#Max	--	--	14.17	--	--	--
		100%	--	--	--	14.24	--	--	--
	64QAM	1	#0	--	--	14.34	--	--	--
		1	#Mid	--	--	14.33	--	--	--
		1	#Max	--	--	14.38	--	--	--
		50%	#0	--	--	13.25	--	--	--
		50%	#Mid	--	--	13.18	--	--	--
		50%	#Max	--	--	13.17	--	--	--
		100%	--	--	--	13.19	--	--	--
Mid	QPSK	1	#0	--	--	16.17	16.21	--	--
		1	#Mid	--	--	16.20	16.32	--	--
		1	#Max	--	--	16.13	16.09	--	--
		50%	#0	--	--	15.24	15.41	--	--
		50%	#Mid	--	--	15.22	15.55	--	--
		50%	#Max	--	--	15.15	15.26	--	--
		100%	--	--	--	15.22	15.24	--	--
	16QAM	1	#0	--	--	15.47	15.52	--	--
		1	#Mid	--	--	15.52	15.53	--	--
		1	#Max	--	--	15.45	15.40	--	--

		50%	#0	--	--	14.26	14.29	--	--
		50%	#Mid	--	--	14.21	14.23	--	--
		50%	#Max	--	--	14.14	14.25	--	--
		100%	--	--	--	14.25	14.27	--	--
	64QAM	1	#0	--	--	14.47	14.34	--	--
		1	#Mid	--	--	14.41	14.45	--	--
		1	#Max	--	--	14.35	14.21	--	--
		50%	#0	--	--	13.26	13.28	--	--
		50%	#Mid	--	--	13.22	13.21	--	--
		50%	#Max	--	--	13.15	13.18	--	--
		100%	--	--	--	13.19	13.20	--	--
High	QPSK	1	#0	--	--	16.21	--	--	--
		1	#Mid	--	--	16.15	--	--	--
		1	#Max	--	--	16.11	--	--	--
		50%	#0	--	--	15.18	--	--	--
		50%	#Mid	--	--	15.15	--	--	--
		50%	#Max	--	--	15.14	--	--	--
		100%	--	--	--	15.21	--	--	--
	16QAM	1	#0	--	--	15.50	--	--	--
		1	#Mid	--	--	15.42	--	--	--
		1	#Max	--	--	15.38	--	--	--
		50%	#0	--	--	14.19	--	--	--
		50%	#Mid	--	--	14.16	--	--	--
		50%	#Max	--	--	14.09	--	--	--
		100%	--	--	--	14.19	--	--	--
	64QAM	1	#0	--	--	14.43	--	--	--
		1	#Mid	--	--	14.40	--	--	--
		1	#Max	--	--	14.28	--	--	--
		50%	#0	--	--	13.21	--	--	--
		50%	#Mid	--	--	13.15	--	--	--
		50%	#Max	--	--	13.12	--	--	--
		100%	--	--	--	13.15	--	--	--

Channel	Modulation	LTE Band 66 DSI 1							
		RB	RB	Maximum Conducted Output Power					
		No.	Offset	1.4M	3M	5M	10M	15M	20M
Low	QPSK	1	#0	23.37	23.14	23.13	23.13	23.10	23.07
		1	#Mid	23.34	23.20	23.20	23.26	23.25	23.27
		1	#Max	23.38	23.17	23.20	23.20	23.23	23.14
		50%	#0	23.34	22.15	22.20	22.14	22.17	22.29
		50%	#Mid	23.37	22.15	22.19	22.18	22.18	22.29
		50%	#Max	23.36	22.15	22.18	22.11	22.16	22.23
		100%	--	22.36	22.14	22.17	22.13	22.18	22.28
	16QAM	1	#0	22.57	22.32	22.33	22.37	22.32	22.26
		1	#Mid	22.55	22.30	22.37	22.51	22.48	22.48
		1	#Max	22.54	22.33	22.37	22.39	22.42	22.45
		50%	#0	22.36	21.36	21.32	21.29	21.29	21.41
		50%	#Mid	22.35	21.36	21.29	21.30	21.32	21.41
		50%	#Max	22.37	21.36	21.26	21.18	21.30	21.37
		100%	--	21.53	21.33	21.29	21.24	21.28	21.36
	64QAM	1	#0	21.67	21.44	21.40	21.40	21.45	21.36
		1	#Mid	21.62	21.43	21.41	21.52	21.51	21.54
		1	#Max	21.58	21.48	21.47	21.49	21.53	21.51
		50%	#0	21.58	20.32	20.34	20.27	20.30	20.39
		50%	#Mid	21.57	20.31	20.32	20.34	20.31	20.40
		50%	#Max	21.56	20.36	20.30	20.19	20.28	20.34
		100%	--	20.45	20.29	20.26	20.26	20.26	20.35
Mid	QPSK	1	#0	23.65	23.45	23.42	23.46	23.38	23.31
		1	#Mid	23.63	23.48	23.49	23.49	23.46	23.46
		1	#Max	23.66	23.44	23.49	23.41	23.37	23.31
		50%	#0	23.68	22.48	22.54	22.51	22.48	22.54
		50%	#Mid	23.69	22.46	22.48	22.47	22.47	22.46
		50%	#Max	23.71	22.40	22.42	22.23	22.36	22.24
		100%	--	22.68	22.49	22.47	22.40	22.43	22.40
	16QAM	1	#0	22.82	22.66	22.65	22.68	22.65	22.57
		1	#Mid	22.88	22.65	22.68	22.73	22.70	22.66
		1	#Max	22.87	22.60	22.67	22.68	22.60	22.52

		50%	#0	22.65	21.67	21.68	21.66	21.62	21.64
		50%	#Mid	22.66	21.68	21.60	21.57	21.61	21.60
		50%	#Max	22.66	21.63	21.49	21.34	21.48	21.35
		100%	--	21.87	21.63	21.59	21.53	21.53	21.49
	64QAM	1	#0	21.99	21.74	21.72	21.74	21.73	21.68
		1	#Mid	21.94	21.71	21.75	21.75	21.76	21.75
		1	#Max	21.91	21.69	21.69	21.67	21.66	21.60
		50%	#0	21.89	20.64	20.67	20.64	20.64	20.64
		50%	#Mid	21.90	20.61	20.62	20.55	20.59	20.59
		50%	#Max	21.88	20.57	20.56	20.35	20.47	20.33
		100%	--	20.75	20.57	20.56	20.51	20.49	20.47
High	QPSK	1	#0	23.86	23.64	23.57	23.55	23.50	23.48
		1	#Mid	23.86	23.66	23.66	23.65	23.60	23.57
		1	#Max	23.87	23.63	23.62	23.58	23.53	23.48
		50%	#0	23.87	22.65	22.73	22.64	22.53	22.52
		50%	#Mid	23.90	22.63	22.66	22.63	22.56	22.62
		50%	#Max	23.90	22.62	22.56	22.38	22.46	22.41
		100%	--	22.87	22.64	22.63	22.54	22.53	22.44
	16QAM	1	#0	23.06	22.82	22.82	22.85	22.82	22.70
		1	#Mid	23.11	22.86	22.82	22.86	22.85	22.81
		1	#Max	23.05	22.83	22.77	22.78	22.77	22.67
		50%	#0	22.86	21.85	21.82	21.74	21.68	21.63
		50%	#Mid	22.90	21.83	21.75	21.74	21.67	21.72
		50%	#Max	22.88	21.82	21.66	21.50	21.61	21.53
		100%	--	22.05	21.78	21.75	21.67	21.63	21.58
	64QAM	1	#0	22.12	21.86	21.87	21.85	21.82	21.72
		1	#Mid	22.15	21.90	21.94	21.93	21.91	21.85
		1	#Max	22.11	21.85	21.87	21.83	21.84	21.78
		50%	#0	22.06	20.83	20.85	20.76	20.65	20.59
		50%	#Mid	22.08	20.78	20.78	20.73	20.70	20.72
		50%	#Max	22.08	20.76	20.70	20.50	20.59	20.52
		100%	--	20.93	20.74	20.75	20.64	20.62	20.58

Channel	Modulation	LTE Band 66 DSI 2							
		RB	RB	Maximum Conducted Output Power					
		No.	Offset	1.4M	3M	5M	10M	15M	20M
Low	QPSK	1	#0	16.71	16.73	16.80	16.78	16.73	16.82
		1	#Mid	16.72	16.76	16.84	16.78	16.67	16.66
		1	#Max	16.72	16.79	16.76	16.65	16.53	16.61
		50%	#0	16.78	15.87	15.88	15.85	15.79	15.87
		50%	#Mid	16.77	15.89	15.85	15.84	15.78	15.80
		50%	#Max	16.75	15.88	15.85	15.80	15.65	15.72
		100%	--	15.81	15.87	15.89	15.83	15.74	15.74
	16QAM	1	#0	16.06	16.12	16.18	16.20	16.13	16.09
		1	#Mid	16.10	16.16	16.20	16.12	16.13	16.05
		1	#Max	16.06	16.16	16.17	16.02	15.85	15.96
		50%	#0	15.84	14.95	14.85	14.89	14.88	14.87
		50%	#Mid	15.81	14.94	14.84	14.88	14.80	14.81
		50%	#Max	15.85	14.92	14.79	14.82	14.73	14.70
		100%	--	14.87	14.89	14.90	14.84	14.77	14.77
	64QAM	1	#0	14.96	15.01	15.03	15.00	15.00	14.95
		1	#Mid	14.99	15.07	15.06	14.90	14.93	14.88
		1	#Max	14.92	15.02	15.02	14.81	14.69	14.74
		50%	#0	14.90	13.90	13.91	13.88	13.82	13.81
		50%	#Mid	14.90	13.90	13.90	13.86	13.71	13.79
		50%	#Max	14.90	13.87	13.80	13.76	13.71	13.68
		100%	--	13.77	13.87	13.88	13.80	13.74	13.73
Mid	QPSK	1	#0	16.69	16.70	16.76	16.77	16.77	16.80
		1	#Mid	16.68	16.70	16.75	16.77	16.73	16.73
		1	#Max	16.67	16.66	16.74	16.69	16.61	16.66
		50%	#0	16.72	15.78	15.83	15.84	15.88	15.85
		50%	#Mid	16.70	15.76	15.79	15.84	15.83	15.82
		50%	#Max	16.70	15.72	15.77	15.69	15.71	15.65
		100%	--	15.77	15.76	15.82	15.85	15.82	15.78
	16QAM	1	#0	16.08	16.13	16.15	16.18	16.17	16.15
		1	#Mid	16.09	16.10	16.11	16.15	16.07	16.10
		1	#Max	16.02	16.07	16.09	16.07	15.98	15.98

		50%	#0	15.76	14.84	14.82	14.90	14.90	14.90
		50%	#Mid	15.76	14.83	14.76	14.87	14.80	14.84
		50%	#Max	15.75	14.80	14.77	14.70	14.73	14.66
		100%	--	14.83	14.82	14.85	14.84	14.75	14.77
	64QAM	1	#0	14.98	14.96	14.98	14.95	15.07	14.94
		1	#Mid	14.92	14.96	15.00	14.92	15.00	14.88
		1	#Max	14.95	14.94	14.96	14.88	14.83	14.77
		50%	#0	14.83	13.82	13.86	13.86	13.83	13.83
		50%	#Mid	14.83	13.75	13.77	13.83	13.80	13.82
		50%	#Max	14.83	13.77	13.78	13.70	13.68	13.69
		100%	--	13.70	13.74	13.81	13.79	13.79	13.71
High	QPSK	1	#0	16.88	16.88	16.92	16.84	16.79	16.77
		1	#Mid	16.91	16.91	16.93	16.87	16.84	16.95
		1	#Max	16.88	16.87	16.92	16.87	16.80	16.78
		50%	#0	16.94	15.99	16.02	15.94	15.89	15.87
		50%	#Mid	16.93	15.96	16.00	15.99	15.96	15.92
		50%	#Max	16.94	15.96	15.93	15.87	15.92	15.89
		100%	--	15.98	16.00	15.98	16.00	15.95	15.91
	16QAM	1	#0	16.19	16.28	16.30	16.24	16.14	16.11
		1	#Mid	16.28	16.29	16.28	16.26	16.17	16.21
		1	#Max	16.23	16.26	16.32	16.23	16.16	16.13
		50%	#0	15.99	15.04	15.02	14.97	14.92	14.90
		50%	#Mid	16.02	15.03	14.98	15.00	14.98	14.94
		50%	#Max	15.97	15.04	14.92	14.92	14.92	14.89
		100%	--	15.03	15.03	14.99	14.95	14.93	14.86
	64QAM	1	#0	15.12	15.14	15.16	15.05	15.08	14.98
		1	#Mid	15.13	15.17	15.16	15.10	15.10	15.06
		1	#Max	15.10	15.09	15.13	15.12	15.06	14.92
		50%	#0	15.05	14.03	14.03	13.93	13.88	13.86
		50%	#Mid	15.05	13.99	14.01	13.99	13.94	13.86
		50%	#Max	15.09	13.97	13.97	13.86	13.87	13.86
		100%	--	13.97	13.93	13.98	13.92	13.86	13.85

LTE Intra-Band Up-Link Carrier Aggregation

Number	Combination
1	5B

2UL_CA_5B Maximum Average Output Power											
Channel	PCC					SCC					Total Power (dBm)
	BW (MHz)	Channel	Frquency (MHz)	RB No.	RB offset	BW (MHz)	Channel	Frquency (MHz)	RB No.	RB offset	QPSK
Low	10	20450	829	1	49	10	20549	838.9	1	0	23.65
Mid	10	20476	831.6	1	49	10	20575	841.5	1	0	23.63
High	10	20501	834.1	1	49	10	20600	844	1	0	23.59

LTE Inter-Band Up-Link Carrier Aggregation

UL CA inter-bands	RF Exposure Conditions		Standalone Worst Case Position								UL CA				
			CC1				CC2				CC1	CC2	CC1	CC2	CC1+CC2
			ANT	Band	Tune-up Limit (dBm)	Scale-1g SAR (W/kg)	ANT	Band	Tune-up Limit (dBm)	Scale-1g SAR (W/kg)	Tune-up Limit -3Bm (dBm)	Scale-1g SAR (W/kg)			
CA_2A_5A	Head	ANT0	LTE Band 2	25	0.194	ANT2	LTE Band 5	24	0.966	22	21	0.097	0.484	0.581	
		ANT1	LTE Band 2	25	0	ANT0	LTE Band 5	24	0.16	22	21	0.000	0.080	0.080	
	Body	ANT0	LTE Band 2	18	0.764	ANT2	LTE Band 5	24.5	0.459	15	21.5	0.383	0.230	0.613	
		ANT1	LTE Band 2	18	0.032	ANT0	LTE Band 5	24.5	0.261	15	21.5	0.016	0.131	0.147	
CA_2A_12A	Head	ANT0	LTE Band 2	25	0.194	ANT2	LTE Band 12	24	1.069	22	21	0.097	0.536	0.633	
		ANT1	LTE Band 2	25	0	ANT0	LTE Band 12	24	0.107	22	21	0.000	0.054	0.054	
	Body	ANT0	LTE Band 2	18	0.764	ANT2	LTE Band 12	24.5	0.589	15	21.5	0.383	0.295	0.678	
		ANT1	LTE Band 2	18	0.032	ANT0	LTE Band 12	24.5	0.163	15	21.5	0.016	0.082	0.098	
CA_2A_14A	Head	ANT0	LTE Band 2	25	0.194	ANT2	LTE Band 14	24	0.892	22	21	0.097	0.447	0.544	
		ANT1	LTE Band 2	25	0	ANT0	LTE Band 14	24	0.156	22	21	0.000	0.078	0.078	
	Body	ANT0	LTE Band 2	18	0.764	ANT2	LTE Band 14	24.5	0.476	15	21.5	0.383	0.239	0.621	
		ANT1	LTE Band 2	18	0.032	ANT0	LTE Band 14	24.5	0.234	15	21.5	0.016	0.117	0.133	
CA_5A_30A	Head	ANT0	LTE Band 5	24	0.16	ANT1	LTE Band 30	25	0.061	21	22	0.080	0.031	0.111	
		ANT2	LTE Band 5	24	0.966	ANT0	LTE Band 30	25	0.125	21	22	0.484	0.063	0.547	
	Body	ANT0	LTE Band 5	24.5	0.261	ANT1	LTE Band 30	18	0.107	21.5	15	0.131	0.054	0.184	
		ANT2	LTE Band 5	24.5	0.459	ANT0	LTE Band 30	18	0.561	21.5	15	0.230	0.281	0.511	
CA_5A_66A	Head	ANT0	LTE Band 5	24	0.16	ANT1	LTE Band 66	25	0.07	21	22	0.080	0.035	0.115	
		ANT2	LTE Band 5	24	0.966	ANT0	LTE Band 66	25	0.156	21	22	0.484	0.078	0.562	
	Body	ANT0	LTE Band 5	24.5	0.261	ANT1	LTE Band 66	18	0.019	21.5	15	0.131	0.010	0.140	
		ANT2	LTE Band 5	24.5	0.459	ANT0	LTE Band 66	18	0.795	21.5	15	0.230	0.398	0.628	
CA_12A_30A	Head	ANT0	LTE Band 12	24	0.107	ANT1	LTE Band 30	25	0.061	21	22	0.054	0.031	0.084	
		ANT2	LTE Band 12	24	1.069	ANT0	LTE Band 30	25	0.125	21	22	0.536	0.063	0.598	
	Body	ANT0	LTE Band 12	24.5	0.163	ANT1	LTE Band 30	18	0.107	21.5	15	0.082	0.054	0.135	
		ANT2	LTE Band 12	24.5	0.589	ANT0	LTE Band 30	18	0.561	21.5	15	0.295	0.281	0.576	
CA_14A_30A	Head	ANT0	LTE Band 14	24	0.156	ANT1	LTE Band 30	25	0.061	21	22	0.078	0.031	0.109	
		ANT2	LTE Band 14	24	0.892	ANT0	LTE Band 30	25	0.125	21	22	0.447	0.063	0.510	
	Body	ANT0	LTE Band 14	24.5	0.234	ANT1	LTE Band 30	18	0.107	21.5	15	0.117	0.054	0.171	
		ANT2	LTE Band 14	24.5	0.476	ANT0	LTE Band 30	18	0.561	21.5	15	0.239	0.281	0.520	
CA_14A_66A	Head	ANT0	LTE Band 14	24	0.156	ANT1	LTE Band 66	25	0.07	21	22	0.078	0.035	0.113	
		ANT2	LTE Band 14	24	0.892	ANT0	LTE Band 66	25	0.156	21	22	0.447	0.078	0.525	

CA_14A_66A	Body	ANT0	LTE Band 14	24.5	0.234	ANT1	LTE Band 66	18	0.019	21.5	15	0.117	0.010	0.127
		ANT2	LTE Band 14	24.5	0.476	ANT0	LTE Band 66	18	0.795	21.5	15	0.239	0.398	0.637

1. If the single uplink 1-g SAR values for each band are both less than 0.8 W/kg and the algebraic summation of the 1-g SAR values are less than 1.45 W/kg no additional measurements need to be performed.
2. If one of the single uplink 1-g SAR values is greater than 0.8 W/kg, instead of algebraically summing the 1-g SAR values, sum up the SAR distributions, similar to the enlarged zoom scan (volume scan) procedures found in FCC KDB Publication 865664 D01.
3. If the algebraic sum of the 1-g SAR values is > 1.45 W/kg additional measurements may have to be made.

LTE Down-Link Carrier Aggregation

The tables is show the supported frequency bands of the device for DL Inter-band and DL Intra-band combinations.

Index	2CC	Restriction	Completely Covered by Measurement Superset
2CC #1	CA_2A-12A		No
2CC #2	CA_2A-14A		No
2CC #3	CA_2A-29A	B29 SCC Only	No
2CC #4	CA_2A-2A		No
2CC #5	CA_2A-30A		No
2CC #6	CA_2A-5A		No
2CC #7	CA_2A-66A		No
2CC #8	CA_5A-30A		No
2CC #9	CA_5A-66A		No
2CC #10	CA_5B		No
2CC #11	CA_12A-30A		No
2CC #12	CA_12A-66A		No
2CC #13	CA_14A-30A		No
2CC #14	CA_14A-66A		No
2CC #15	CA_29A-30A	B29 SCC Only	No
2CC #16	CA_29A-66A	B29 SCC Only	No
2CC #17	CA_30A-66A		No
2CC #18	CA_66A-66A		No
2CC #19	CA_66B		No
2CC #20	CA_66C		No

Two Component Carrier Maximum Conducted Power													
PCC							SCC				TX Power (dBm)		Configurations
Band	BW (MHz)	Modulation	RB No.	RB offset	Channel	Frquency (MHz)	Band	BW (MHz)	Channel	Frquency (MHz)	CA Active	CA Inactive	
LTE B2	20	QPSK	1	0	18900	1880	LTE B12	10	5095	737.5	23.45	23.46	CA_2A-12A
LTE B2	20	QPSK	1	0	18900	1880	LTE B14	10	5330	763	23.43	23.46	CA_2A-14A
LTE B2	20	QPSK	1	0	18900	1880	LTE B29	10	9715	722.5	23.44	23.46	CA_2A-29A
LTE B2	20	QPSK	1	0	18700	1860	LTE B2	20	1100	1980	23.47	23.48	CA_2A-2A
LTE B2	20	QPSK	1	0	18900	1880	LTE B30	10	9820	2355	23.43	23.46	CA_2A-30A
LTE B2	20	QPSK	1	0	18900	1880	LTE B5	10	2525	881.5	23.45	23.46	CA_2A-5A
LTE B2	20	QPSK	1	0	18900	1880	LTE B66	20	66786	2155	23.44	23.46	CA_2A-66A
LTE B5	10	QPSK	1	0	20525	836.5	LTE B30	10	9820	2355	22.76	22.78	CA_5A-30A
LTE B5	10	QPSK	1	0	20525	836.5	LTE B66	20	66786	2155	22.77	22.78	CA_5A-66A
LTE B5	10	QPSK	1	0	20450	829	LTE B5	10	2549	883.9	22.70	22.72	CA_5B
LTE B12	10	QPSK	1	0	23095	707.5	LTE B30	10	9820	2355	23.15	23.17	CA_12A-30A
LTE B12	10	QPSK	1	0	23095	707.5	LTE B66	20	66786	2155	23.16	23.17	CA_12A-66A
LTE B14	10	QPSK	1	0	23330	793	LTE B30	10	9820	2355	22.97	23.00	CA_14A-30A
LTE B14	10	QPSK	1	0	23330	793	LTE B66	20	66786	2155	22.96	23.00	CA_14A-66A
LTE B30	10	QPSK	1	0	27710	2310	LTE B29	10	9715	722.5	23.13	23.14	CA_29A-30A
LTE B66	20	QPSK	1	0	132322	1745	LTE B29	10	9715	722.5	23.30	23.31	CA_29A-66A
LTE B30	10	QPSK	1	0	27710	2310	LTE B66	20	66786	2155	23.11	23.14	CA_30A-66A
LTE B66	20	QPSK	1	0	132072	1720	LTE B66	20	67236	2190	23.07	23.07	CA_66A-66A
LTE B66	10	QPSK	1	0	132022	1715	LTE B66	10	66585	2124.9	23.06	23.13	CA_66B
LTE B66	20	QPSK	1	0	132072	1720	LTE B66	20	66734	2139.8	23.06	23.07	CA_66C

NR n2				DSI 1					DSI 2				
BW (MHz)	Modulation	Channel		372000	376000	380000	MPR	Tine-up Limit (dBm)	372000	376000	380000	MPR	Tine-up Limit (dBm)
		Frequency (MHz)		1860	1880	1900			1860	1880	1900		
		RB No.	RB Offset	Measured Power (dBm)					Measured Power (dBm)				
20M	PI/2 BPSK	1	#1	23.62	23.80	23.60	0	25	17.77	17.56	17.73	0	18
	QPSK	1	#1	23.82	23.90	23.87	0	25	17.60	17.95	17.80	0	18
		1	#Mid	23.51	23.50	23.69	0	25	17.50	17.64	17.62	0	18
		1	#Max	23.80	23.61	23.86	0	25	17.59	17.68	17.72	0	18
		50%	#0	23.47	23.38	23.35	0.5	24.5	17.54	17.56	17.83	0	18
		50%	#Mid	23.47	23.60	23.38	0	25	17.62	17.83	17.74	0	18
		50%	#Max	23.50	23.57	23.22	0.5	24.5	17.67	17.66	17.59	0	18
		100%	--	23.49	23.50	23.41	0.5	24.5	17.66	17.67	17.78	0	18
	16QAM	1	#1	22.87	22.62	22.86	1	24	17.68	17.55	17.64	0	18
	64QAM	1	#1	21.34	21.11	21.36	2.5	22.5	17.87	17.80	17.84	0	18
	256QAM	1	#1	19.43	19.32	19.50	4.5	20.5	17.16	17.02	17.06	0	18
	CP-OFDM QPSK	1	#1	22.23	22.49	22.28	1.5	23.5	17.86	17.77	17.81	0	18
BW (MHz)	Modulation	Channel		371500	376000	380500	MPR	Tine-up Limit (dBm)	371500	376000	380500	MPR	Tine-up Limit (dBm)
		Frequency (MHz)		1857.5	1880	1902.5			1857.5	1880	1902.5		
		RB No.	RB Offset	Measured Power (dBm)					Measured Power (dBm)				
15M	PI/2 BPSK	1	#1	23.67	23.87	23.91	0	25	17.64	17.89	17.55	0	18
	QPSK	1	#1	23.57	23.79	23.81	0	25	17.60	17.91	17.60	0	18
		1	#Mid	23.92	23.55	23.72	0	25	17.84	17.96	17.54	0	18
		1	#Max	23.93	23.55	23.81	0	25	17.73	17.61	17.70	0	18
		50%	#0	23.36	23.34	23.36	0.5	24.5	17.80	17.47	17.69	0	18
		50%	#Mid	23.39	23.44	23.28	0	25	17.92	17.51	17.60	0	18
		50%	#Max	23.48	23.47	23.25	0.5	24.5	18.00	17.58	17.61	0	18
		100%	--	23.32	23.42	23.31	0.5	24.5	17.91	17.53	17.66	0	18
	16QAM	1	#1	22.77	22.82	22.79	1	24	17.88	17.68	17.86	0	18
	64QAM	1	#1	21.32	21.45	21.33	2.5	22.5	17.90	17.73	17.89	0	18
	256QAM	1	#1	19.41	19.08	19.46	4.5	20.5	17.99	17.85	18.00	0	18
	CP-OFDM QPSK	1	#1	22.30	22.42	22.31	1.5	23.5	17.75	17.55	17.70	0	18

BW (MHz)	Modulation	Channel		371000	376000	381000	MPR	Tine-up Limit (dBm)	371000	376000	381000	MPR	Tine-up Limit (dBm)
		Frequency (MHz)		1855	1880	1905			1855	1880	1905		
		RB No.	RB Offset	Measured Power (dBm)					Measured Power (dBm)				
10M	PI/2 BPSK	1	#1	23.97	23.74	23.51	0	25	17.84	17.71	17.79	0	18
	QPSK	1	#1	23.86	23.58	23.92	0	25	18.00	17.70	17.79	0	18
		1	#Mid	23.65	23.82	23.51	0	25	17.61	17.80	17.96	0	18
		1	#Max	23.81	23.87	23.61	0	25	17.63	17.86	17.55	0	18
		50%	#0	23.32	23.15	23.45	0.5	24.5	17.64	17.83	17.45	0	18
		50%	#Mid	23.35	23.20	23.49	0	25	17.70	17.81	17.46	0	18
		50%	#Max	23.10	23.21	23.31	0.5	24.5	17.75	17.81	17.49	0	18
		100%	--	23.17	23.18	23.41	0.5	24.5	17.67	17.80	17.48	0	18
	16QAM	1	#1	22.64	22.85	22.72	1	24	17.56	17.80	17.87	0	18
	64QAM	1	#1	21.18	21.16	21.23	2.5	22.5	17.58	17.84	17.94	0	18
	256QAM	1	#1	19.26	19.11	19.36	4.5	20.5	17.71	17.96	17.58	0	18
	CP-OFDM QPSK	1	#1	21.92	22.31	22.02	1.5	23.5	17.92	17.66	17.76	0	18
BW (MHz)	Modulation	Channel		370500	376000	381500	MPR	Tine-up Limit (dBm)	370500	376000	381500	MPR	Tine-up Limit (dBm)
		Frequency (MHz)		1852.5	1880	1907.5			1852.5	1880	1907.5		
		RB No.	RB Offset	Measured Power (dBm)					Measured Power (dBm)				
5M	PI/2 BPSK	1	#1	23.71	23.54	23.91	0	25	17.98	17.84	17.53	0	18
	QPSK	1	#1	23.61	23.89	23.72	0	25	17.52	17.79	17.48	0	18
		1	#Mid	23.68	23.98	23.77	0	25	17.53	17.78	17.55	0	18
		1	#Max	23.85	23.53	23.84	0	25	17.55	17.82	17.62	0	18
		50%	#0	23.38	23.15	23.04	0.5	24.5	17.66	17.87	17.63	0	18
		50%	#Mid	23.50	23.26	23.48	0	25	17.67	17.85	17.60	0	18
		50%	#Max	23.44	23.09	23.45	0.5	24.5	17.62	17.82	17.58	0	18
		100%	--	23.26	23.40	23.32	0.5	24.5	17.63	17.86	17.62	0	18
	16QAM	1	#1	22.83	22.68	22.97	1	24	17.75	17.54	17.73	0	18
	64QAM	1	#1	21.34	21.21	21.47	2.5	22.5	17.78	17.56	17.71	0	18
	256QAM	1	#1	19.40	19.31	19.03	4.5	20.5	17.88	17.65	17.82	0	18
	CP-OFDM QPSK	1	#1	22.21	22.08	22.30	1.5	23.5	17.67	17.88	17.56	0	18

NR n5				DSI 1					DSI 2				
BW (MHz)	Modulation	Channel		166800	167300	167800	MPR	Tine-up Limit (dBm)	166800	167300	167800	MPR	Tine-up Limit (dBm)
		Frequency (MHz)		834	836.5	839			834	836.5	839		
		RB No.	RB Offset	Measured Power (dBm)					Measured Power (dBm)				
20M	PI/2 BPSK	1	#1	22.74	22.75	22.74	0	24	22.74	22.75	22.74	0	24.5
	QPSK	1	#1	22.93	22.95	22.94	0	24	22.93	22.95	22.94	0	24.5
		1	#Mid	22.92	22.89	22.91	0	24	22.92	22.89	22.91	0	24.5
		1	#Max	22.63	22.72	22.71	0	24	22.63	22.72	22.71	0	24.5
		50%	#0	22.83	22.90	22.89	0.5	23.5	22.83	22.90	22.89	0.5	24
		50%	#Mid	22.87	22.91	22.91	0	24	22.87	22.91	22.91	0	24.5
		50%	#Max	22.84	22.87	22.79	0.5	23.5	22.84	22.87	22.79	0.5	24
		100%	--	22.81	22.86	22.85	0.5	23.5	22.81	22.86	22.85	0.5	24
	16QAM	1	#1	22.08	22.04	22.06	1	23	22.08	22.04	22.06	1	23.5
	64QAM	1	#1	20.39	20.38	20.40	2.5	21.5	20.39	20.38	20.40	2.5	22
	256QAM	1	#1	17.15	17.17	17.16	4.5	19.5	17.15	17.17	17.16	4.5	20
	CP-OFDM QPSK	1	#1	22.33	22.36	22.37	1.5	22.5	22.33	22.36	22.37	1.5	23
BW (MHz)	Modulation	Channel		166300	167300	168300	MPR	Tine-up Limit (dBm)	166300	167300	168300	MPR	Tine-up Limit (dBm)
		Frequency (MHz)		831.5	836.5	841.5			831.5	836.5	841.5		
		RB No.	RB Offset	Measured Power (dBm)					Measured Power (dBm)				
15M	PI/2 BPSK	1	#1	22.85	22.86	22.91	0	24	22.85	22.86	22.91	0	24.5
	QPSK	1	#1	22.64	22.67	22.70	0	24	22.64	22.67	22.70	0	24.5
		1	#Mid	22.81	22.84	22.81	0	24	22.81	22.84	22.81	0	24.5
		1	#Max	22.65	22.60	22.56	0	24	22.65	22.60	22.56	0	24.5
		50%	#0	22.79	22.77	22.80	0.5	23.5	22.79	22.77	22.80	0.5	24
		50%	#Mid	22.79	22.76	22.75	0	24	22.79	22.76	22.75	0	24.5
		50%	#Max	22.73	22.72	22.66	0.5	23.5	22.73	22.72	22.66	0.5	24
		100%	--	22.83	22.81	22.78	0.5	23.5	22.83	22.81	22.78	0.5	24
	16QAM	1	#1	22.09	21.99	22.08	1	23	22.09	21.99	22.08	1	23.5
	64QAM	1	#1	20.48	20.51	20.47	2.5	21.5	20.48	20.51	20.47	2.5	22
	256QAM	1	#1	17.26	17.28	17.27	4.5	19.5	17.26	17.28	17.27	4.5	20
	CP-OFDM QPSK	1	#1	22.31	22.32	22.29	1.5	22.5	22.31	22.32	22.29	1.5	23

BW (MHz)	Modulation	Channel		165800	167300	168800	MPR	Tine-up Limit (dBm)	165800	167300	168800	MPR	Tine-up Limit (dBm)
		Frequency (MHz)		829	836.5	844			829	836.5	844		
		RB No.	RB Offset	Measured Power (dBm)					Measured Power (dBm)				
10M	PI/2 BPSK	1	#1	22.69	22.72	22.70	0	24	22.69	22.72	22.70	0	24.5
	QPSK	1	#1	22.67	22.71	22.66	0	24	22.67	22.71	22.66	0	24.5
		1	#Mid	22.78	22.76	22.73	0	24	22.78	22.76	22.73	0	24.5
		1	#Max	22.57	22.55	22.90	0	24	22.57	22.55	22.90	0	24.5
		50%	#0	22.70	22.67	22.64	0.5	23.5	22.70	22.67	22.64	0.5	24
		50%	#Mid	22.71	22.65	22.63	0	24	22.71	22.65	22.63	0	24.5
		50%	#Max	22.70	22.63	22.49	0.5	23.5	22.70	22.63	22.49	0.5	24
		100%	--	22.70	22.67	22.62	0.5	23.5	22.70	22.67	22.62	0.5	24
		16QAM	1	#1	21.95	22.01	21.97	1	23	21.95	22.01	21.97	1
	64QAM	1	#1	20.21	20.23	20.17	2.5	21.5	20.21	20.23	20.17	2.5	22
	256QAM	1	#1	17.02	17.03	17.01	4.5	19.5	17.02	17.03	17.01	4.5	20
	CP-OFDM QPSK	1	#1	22.25	22.25	22.26	1.5	22.5	22.25	22.25	22.26	1.5	23
BW (MHz)	Modulation	Channel		165300	167300	169300	MPR	Tine-up Limit (dBm)	165300	167300	169300	MPR	Tine-up Limit (dBm)
		Frequency (MHz)		826.5	836.5	846.5			826.5	836.5	846.5		
		RB No.	RB Offset	Measured Power (dBm)					Measured Power (dBm)				
5M	PI/2 BPSK	1	#1	22.76	22.79	22.59	0	24	22.76	22.79	22.59	0	24.5
	QPSK	1	#1	22.78	22.75	22.58	0	24	22.78	22.75	22.58	0	24.5
		1	#Mid	22.75	22.78	22.67	0	24	22.75	22.78	22.67	0	24.5
		1	#Max	22.74	22.74	22.66	0	24	22.74	22.74	22.66	0	24.5
		50%	#0	22.87	22.89	22.80	0.5	23.5	22.87	22.89	22.80	0.5	24
		50%	#Mid	22.85	22.82	22.74	0	24	22.85	22.82	22.74	0	24.5
		50%	#Max	22.89	22.78	22.71	0.5	23.5	22.89	22.78	22.71	0.5	24
		100%	--	22.85	22.81	22.77	0.5	23.5	22.85	22.81	22.77	0.5	24
		16QAM	1	#1	22.54	22.50	22.85	1	23	22.54	22.50	22.85	1
	64QAM	1	#1	21.11	21.03	21.04	2.5	21.5	21.11	21.03	21.04	2.5	22
	256QAM	1	#1	19.43	19.44	19.44	4.5	19.5	19.43	19.44	19.44	4.5	20
	CP-OFDM QPSK	1	#1	22.85	22.83	22.67	1.5	22.5	22.85	22.83	22.67	1.5	23

NR n66				DSI 1					DSI 2				
BW (MHz)	Modulation	Channel		346000	349000	352000	MPR	Tine-up Limit (dBm)	346000	349000	352000	MPR	Tine-up Limit (dBm)
		Frequency (MHz)		1730	1745	1760			1730	1745	1760		
		RB No.	RB Offset	Measured Power (dBm)					Measured Power (dBm)				
40M	PI/2 BPSK	1	#1	23.62	23.78	23.75	0	25	17.83	17.51	17.40	0	18
	QPSK	1	#1	23.89	23.94	23.80	0	25	17.98	17.86	17.85	0	18
		1	#Mid	23.88	23.77	23.78	0	25	17.53	17.85	17.83	0	18
		1	#Max	23.82	23.81	23.51	0	25	17.76	17.81	17.60	0	18
		50%	#0	23.29	23.41	23.21	0.5	24.5	17.54	17.80	17.81	0	18
		50%	#Mid	23.30	23.46	23.23	0	25	17.89	17.87	17.88	0	18
		50%	#Max	23.11	23.33	23.17	0.5	24.5	17.70	17.57	17.70	0	18
		100%	--	23.43	23.35	23.10	0.5	24.5	17.50	17.63	17.81	0	18
	16QAM	1	#1	22.95	22.72	22.68	1	24	17.63	17.38	17.76	0	18
	64QAM	1	#1	21.50	21.37	21.31	2.5	22.5	17.81	17.60	17.47	0	18
	256QAM	1	#1	19.17	19.01	19.38	4.5	20.5	17.11	16.88	16.71	0	18
	CP-OFDM QPSK	1	#1	22.34	22.16	22.15	1.5	23.5	17.84	17.58	17.93	0	18
BW (MHz)	Modulation	Channel		344000	349000	354000	MPR	Tine-up Limit (dBm)	344000	349000	354000	MPR	Tine-up Limit (dBm)
		Frequency (MHz)		1720	1745	1770			1720	1745	1770		
		RB No.	RB Offset	Measured Power (dBm)					Measured Power (dBm)				
20M	PI/2 BPSK	1	#1	23.55	23.87	23.82	0	25	17.81	17.88	17.74	0	18
	QPSK	1	#1	23.53	23.88	23.81	0	25	17.53	17.82	17.81	0	18
		1	#Mid	23.52	23.93	23.72	0	25	17.45	17.79	17.75	0	18
		1	#Max	23.93	23.79	23.47	0	25	17.75	17.69	17.69	0	18
		50%	#0	23.14	23.04	23.30	0.5	24.5	17.53	17.44	17.74	0	18
		50%	#Mid	23.20	23.44	23.28	0	25	17.58	17.45	17.70	0	18
		50%	#Max	23.06	23.22	23.45	0.5	24.5	17.60	17.71	17.59	0	18
		100%	--	23.15	23.45	23.18	0.5	24.5	17.59	17.50	17.72	0	18
	16QAM	1	#1	22.71	22.68	22.55	1	24	17.76	17.56	17.51	0	18
	64QAM	1	#1	21.41	21.36	21.22	2.5	22.5	17.74	17.62	17.59	0	18
	256QAM	1	#1	19.48	19.45	19.36	4.5	20.5	17.73	17.75	17.58	0	18
	CP-OFDM QPSK	1	#1	22.17	22.10	22.49	1.5	23.5	17.66	17.45	17.41	0	18

BW (MHz)	Modulation	Channel		343500	349000	354500	MPR	Tine-up Limit (dBm)	343500	349000	354500	MPR	Tine-up Limit (dBm)
		Frequency (MHz)		1717.5	1745	1772.5			1717.5	1745	1772.5		
		RB No.	RB Offset	Measured Power (dBm)					Measured Power (dBm)				
15M	PI/2 BPSK	1	#1	23.56	23.84	23.68	0	25	17.82	17.86	17.72	0	18
	QPSK	1	#1	23.53	23.83	23.64	0	25	17.86	17.85	17.73	0	18
		1	#Mid	23.88	23.87	23.62	0	25	17.75	17.79	17.76	0	18
		1	#Max	23.78	23.77	23.94	0	25	17.47	17.81	17.53	0	18
		50%	#0	23.13	23.42	23.23	0.5	24.5	17.41	17.52	17.30	0	18
		50%	#Mid	23.50	23.48	23.45	0	25	17.40	17.81	17.25	0	18
		50%	#Max	23.45	23.30	23.43	0.5	24.5	17.67	17.78	17.64	0	18
		100%	--	23.04	23.44	23.14	0.5	24.5	17.78	17.84	17.67	0	18
	16QAM	1	#1	22.75	23.58	22.49	1	24	17.59	17.60	17.45	0	18
	64QAM	1	#1	21.38	21.23	21.18	2.5	22.5	17.56	17.66	17.50	0	18
	256QAM	1	#1	19.47	19.36	19.21	4.5	20.5	17.53	17.72	17.64	0	18
	CP-OFDM QPSK	1	#1	22.23	22.04	22.41	1.5	23.5	17.72	17.56	17.44	0	18
BW (MHz)	Modulation	Channel		343000	349000	355000	MPR	Tine-up Limit (dBm)	343000	349000	355000	MPR	Tine-up Limit (dBm)
		Frequency (MHz)		1715	1745	1775			1715	1745	1775		
		RB No.	RB Offset	Measured Power (dBm)					Measured Power (dBm)				
10M	PI/2 BPSK	1	#1	23.99	23.66	23.91	0	25	17.68	17.76	17.52	0	18
	QPSK	1	#1	23.90	23.64	23.86	0	25	17.66	17.71	17.55	0	18
		1	#Mid	23.87	23.66	23.85	0	25	17.63	17.64	17.52	0	18
		1	#Max	23.71	23.60	23.80	0	25	17.41	17.59	17.45	0	18
		50%	#0	23.42	23.29	23.45	0.5	24.5	17.62	17.69	17.57	0	18
		50%	#Mid	23.45	23.30	23.50	0	25	17.43	17.72	17.40	0	18
		50%	#Max	23.31	23.07	23.22	0.5	24.5	17.50	17.63	17.42	0	18
		100%	--	23.36	23.19	23.40	0.5	24.5	17.60	17.60	17.41	0	18
	16QAM	1	#1	22.62	22.38	22.63	1	24	17.87	17.42	17.75	0	18
	64QAM	1	#1	21.26	21.09	21.34	2.5	22.5	17.94	17.45	17.31	0	18
	256QAM	1	#1	19.35	19.18	19.35	4.5	20.5	17.97	17.67	17.53	0	18
	CP-OFDM QPSK	1	#1	22.44	22.33	22.10	1.5	23.5	17.75	17.65	17.70	0	18

BW (MHz)	Modulation	Channel		342500	349000	355500	MPR	Tine-up Limit (dBm)	342500	349000	355500	MPR	Tine-up Limit (dBm)
		Frequency (MHz)		1712.5	1745	1777.5			1712.5	1745	1777.5		
		RB No.	RB Offset	Measured Power (dBm)					Measured Power (dBm)				
5M	PI/2 BPSK	1	#1	23.68	23.88	23.55	0	25	17.96	17.98	17.86	0	18
	QPSK	1	#1	23.57	23.82	23.50	0	25	17.92	17.93	17.79	0	18
		1	#Mid	23.52	23.77	23.48	0	25	17.88	17.88	17.78	0	18
		1	#Max	23.51	23.79	23.49	0	25	17.86	17.93	17.76	0	18
		50%	#0	23.14	23.49	23.16	0.5	24.5	17.54	17.58	17.98	0	18
		50%	#Mid	23.30	23.50	23.20	0	25	17.49	17.53	17.88	0	18
		50%	#Max	23.07	23.31	22.95	0.5	24.5	17.43	17.97	17.79	0	18
		100%	--	23.09	23.34	23.05	0.5	24.5	17.44	17.97	17.85	0	18
	16QAM	1	#1	22.79	22.56	22.74	1	24	17.68	17.69	17.56	0	18
	64QAM	1	#1	21.42	21.19	21.42	2.5	22.5	17.66	17.72	17.56	0	18
	256QAM	1	#1	19.50	19.32	19.48	4.5	20.5	17.75	17.76	17.63	0	18
	CP-OFDM QPSK	1	#1	22.27	22.03	22.23	1.5	23.5	17.47	17.50	17.88	0	18

EN-DC

EN-DC Band	RF Exposure Conditions	Standalone Worst Case Position								EN-DC				
		CC1				CC2				CC1	CC2	CC1	CC2	CC1+CC2
		ANT	Band	Tune-up Limit (dBm)	Scale-1g SAR (W/kg)	ANT	Band	Tune-up Limit (dBm)	Scale-1g SAR (W/kg)	Tune-up Limit -3Bm (dBm)		Scale-1g SAR (W/kg)		
DC_2A_n2A	Head	ANT0	NR n2	25	0.156	ANT1	LTE Band 2	25	0	22	22	0.078	0.000	0.078
	Body	ANT0	NR n2	18	0.797	ANT1	LTE Band 2	18	0.032	15	15	0.399	0.016	0.415
DC_2A_n5A	Head	ANT0	NR n5	24	0.143	ANT1	LTE Band 2	25	0	21	22	0.072	0.000	0.072
		ANT2	NR n5	24	1.139	ANT0	LTE Band 2	25	0.194	21	22	0.571	0.097	0.668
	Body	ANT0	NR n5	24.5	0.277	ANT1	LTE Band 2	18	0.032	21.5	15	0.139	0.016	0.155
		ANT2	NR n5	24.5	0.415	ANT0	LTE Band 2	18	0.73	21.5	15	0.208	0.366	0.574
DC_2A_n66A	Head	ANT0	NR n66	25	0.12	ANT1	LTE Band 2	25	0	22	22	0.060	0.000	0.060
	Body	ANT0	NR n66	18	0.495	ANT1	LTE Band 2	18	0.032	15	15	0.248	0.016	0.264
DC_5A_n2A	Head	ANT0	NR n2	25	0.156	ANT2	LTE Band 5	24	0.966	22	21	0.078	0.484	0.562
	Body	ANT0	NR n2	18	0.797	ANT2	LTE Band 5	24.5	0.459	15	21.5	0.399	0.230	0.629
DC_5A_n66A	Head	ANT0	NR n66	25	0.12	ANT2	LTE Band 5	24	0.966	22	21	0.060	0.484	0.544

	Body	ANT0	NR n66	18	0.495	ANT2	LTE Band 5	24.5	0.459	15	21.5	0.248	0.230	0.478
DC_12A_n2A	Head	ANT0	NR n2	25	0.156	ANT2	LTE Band 12	24	1.069	22	21	0.078	0.536	0.614
	Body	ANT0	NR n2	18	0.797	ANT2	LTE Band 12	24.5	0.589	15	21.5	0.399	0.295	0.695
DC_12A_n66A	Head	ANT0	NR n66	25	0.12	ANT2	LTE Band 12	24	1.069	22	21	0.060	0.536	0.596
	Body	ANT0	NR n66	18	0.495	ANT2	LTE Band 12	24.5	0.589	15	21.5	0.248	0.295	0.543
DC_14A_n2A	Head	ANT0	NR n2	25	0.156	ANT2	LTE Band 14	24	0.892	22	21	0.078	0.447	0.525
	Body	ANT0	NR n2	18	0.797	ANT2	LTE Band 14	24.5	0.476	15	21.5	0.399	0.239	0.638
DC_14A_n66A	Head	ANT0	NR n66	25	0.12	ANT2	LTE Band 14	24	0.892	22	21	0.060	0.447	0.507
	Body	ANT0	NR n66	18	0.495	ANT2	LTE Band 14	24.5	0.476	15	21.5	0.248	0.239	0.487
DC_30A_n2A	Head	ANT0	NR n2	25	0.156	ANT1	LTE Band 30	25	0.061	22	22	0.078	0.031	0.109
	Body	ANT0	NR n2	18	0.797	ANT1	LTE Band 30	18	0.107	15	15	0.399	0.054	0.453
DC_30A_n5A	Head	ANT0	NR n5	24	0.143	ANT1	LTE Band 30	25	0.061	21	22	0.072	0.031	0.102
		ANT2	NR n5	24	1.139	ANT0	LTE Band 30	25	0.125	21	22	0.571	0.063	0.634
	Body	ANT0	NR n5	24.5	0.277	ANT1	LTE Band 30	18	0.107	21.5	15	0.139	0.054	0.192
		ANT2	NR n5	24.5	0.415	ANT0	LTE Band 30	18	0.561	21.5	15	0.208	0.281	0.489
DC_30A_n66A	Head	ANT0	NR n66	25	0.12	ANT1	LTE Band 30	25	0.061	22	22	0.060	0.031	0.091
	Body	ANT0	NR n66	18	0.495	ANT1	LTE Band 30	18	0.107	15	15	0.248	0.054	0.302
DC_66A_n2A	Head	ANT0	NR n2	25	0.156	ANT1	LTE Band 66	25	0.07	22	22	0.078	0.035	0.113
	Body	ANT0	NR n2	18	0.797	ANT1	LTE Band 66	18	0.019	15	15	0.399	0.010	0.409
DC_66A_n5A	Head	ANT0	NR n5	24	0.143	ANT1	LTE Band 66	25	0.07	21	22	0.072	0.035	0.107
		ANT2	NR n5	24	1.139	ANT0	LTE Band 66	25	0.156	21	22	0.571	0.078	0.649
	Body	ANT0	NR n5	24.5	0.277	ANT1	LTE Band 66	18	0.019	21.5	15	0.139	0.010	0.148
		ANT2	NR n5	24.5	0.415	ANT0	LTE Band 66	18	0.795	21.5	15	0.208	0.398	0.606
DC_66A_n66A	Head	ANT0	NR n66	25	0.12	ANT1	LTE Band 66	25	0.07	22	22	0.060	0.035	0.095
	Body	ANT0	NR n66	18	0.495	ANT1	LTE Band 66	18	0.019	15	15	0.248	0.010	0.258

1. If the single uplink 1-g SAR values for each band are both less than 0.8 W/kg and the algebraic summation of the 1-g SAR values are less than 1.45 W/kg no additional measurements need to be performed.
2. If one of the single uplink 1-g SAR values is greater than 0.8 W/kg, instead of algebraically summing the 1-g SAR values, sum up the SAR distributions, similar to the enlarged zoom scan (volume scan) procedures found in FCC KDB Publication 865664 D01.
3. If the algebraic sum of the 1-g SAR values is > 1.45 W/kg additional measurements may have to be made.

9. Test Results

9.1 SAR Test Results Summary

WLAN 2.4G Head SAR									
SAR MEASUREMENT									
Liquid Temperature (°C) : 21.8 ±2					Relative Humidity (%): 52				
Ambient Temperature (°C) : 22.9 ±2					Depth of Liquid (cm):>15				
Test Position Head	Antenna 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_ANT6									
Left-Cheek	Fixed	0	6	2437	12.48	13	0.133	0.150	
Left-Tilt	Fixed	0	6	2437	12.48	13	0.198	0.223	
Right-Cheek	Fixed	0	1	2412	12.44	13	0.222	0.253	
Right-Cheek	Fixed	0	6	2437	12.48	13	0.305	0.344	
Right-Cheek	Fixed	0	11	2462	12.39	13	0.316	0.364	1
Right-Tilt	Fixed	0	6	2437	12.48	13	0.289	0.326	
Test Mode: BT-1M_ANT6									
Left-Cheek	Fixed	0	78	2480	9.97	11.5	0.051	0.072	
Left-Tilt	Fixed	0	78	2480	9.97	11.5	0.079	0.112	
Right-Cheek	Fixed	0	78	2480	9.97	11.5	0.126	0.179	2
Right-Tilt	Fixed	0	78	2480	9.97	11.5	0.116	0.165	
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 Hotspot & Body-worn SAR									
SAR MEASUREMENT									
Liquid Temperature (°C) : 21.8 ±2					Relative Humidity (%): 52				
Ambient Temperature (°C) : 22.9 ±2					Depth of Liquid (cm):>15				
Test Position Body	Antenna 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 10mm_ANT6									
Front	Fixed	10	6	2437	16.87	18	0.127	0.165	
Back	Fixed	10	6	2437	16.87	18	0.204	0.265	
Left-side	Fixed	10	6	2437	16.87	18	0.074	0.096	
Top	Fixed	10	1	2412	16.75	18	0.284	0.379	3
Top	Fixed	10	6	2437	16.87	18	0.203	0.263	
Top	Fixed	10	11	2462	16.61	18	0.215	0.296	
Test Mode: BT-1M 10mm_ANT6									
Front	Fixed	10	78	2480	9.97	11.5	0.027	0.038	
Back	Fixed	10	78	2480	9.97	11.5	0.032	0.046	
Left-side	Fixed	10	78	2480	9.97	11.5	0.015	0.021	
Top	Fixed	10	78	2480	9.97	11.5	0.034	0.048	4
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) : 22.5 ±2					Relative Humidity (%): 52				
Ambient Temperature (°C) : 23.7 ±2					Depth of Liquid (cm):>15				
Test Position Head	Antenna 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: 802.11ac-80M_ANT5									
Left-Cheek	Fixed	0	58	5290	11.87	13	0.067	0.087	
Left-Cheek	Fixed	0	138	5690	11.99	13	0.150	0.189	
Left-Cheek	Fixed	0	155	5775	12.02	13	0.096	0.120	
Left-Tilt	Fixed	0	58	5290	11.87	13	0.059	0.076	
Left-Tilt	Fixed	0	138	5690	11.99	13	0.160	0.202	
Left-Tilt	Fixed	0	155	5775	12.02	13	0.083	0.104	
Right-Cheek	Fixed	0	58	5290	11.87	13	0.158	0.205	5
Right-Cheek	Fixed	0	138	5690	11.99	13	0.169	0.213	
Right-Cheek	Fixed	0	155	5775	12.02	13	0.126	0.158	
Right-Tilt	Fixed	0	58	5290	11.87	13	0.156	0.202	
Right-Tilt	Fixed	0	106	5530	11.92	13	0.194	0.249	6
Right-Tilt	Fixed	0	122	5610	11.95	13	0.193	0.246	
Right-Tilt	Fixed	0	138	5690	11.99	13	0.187	0.236	
Right-Tilt	Fixed	0	155	5775	12.02	13	0.134	0.168	7
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 Hotspot & Body-worn SAR									
SAR MEASUREMENT									
Liquid Temperature (°C) : 22.5 ±2					Relative Humidity (%): 52				
Ambient Temperature (°C) : 23.7 ±2					Depth of Liquid (cm):>15				
Test Position Body	Antenna 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: 802.11ac-80M_10mm_ANT5									
Front	Fixed	10	42	5210	11.85	13	0.043	0.056	
Front	Fixed	10	58	5290	11.87	13	0.046	0.060	
Front	Fixed	10	138	5690	11.99	13	0.088	0.112	
Front	Fixed	10	155	5775	12.02	13	0.076	0.096	
Back	Fixed	10	42	5210	11.85	13	0.116	0.151	8
Back	Fixed	10	58	5290	11.87	13	0.180	0.233	9
Back	Fixed	10	106	5530	11.92	13	0.220	0.282	
Back	Fixed	10	122	5610	11.95	13	0.204	0.260	
Back	Fixed	10	138	5690	11.99	13	0.229	0.289	10
Back	Fixed	10	155	5775	12.02	13	0.213	0.267	11
Left-side	Fixed	10	42	5210	11.85	13	0.076	0.099	
Left-side	Fixed	10	155	5775	12.02	13	0.132	0.165	
Top	Fixed	10	42	5210	11.85	13	0.050	0.065	
Top	Fixed	10	155	5775	12.02	13	0.140	0.175	
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. 4. Only U-NII-1 / U-NII-3 supports Hotspot operation.									

WLAN 5G Product Specific 10g (Extremity) SAR									
SAR MEASUREMENT									
Liquid Temperature (°C) : 22.5 ±2					Relative Humidity (%): 52				
Ambient Temperature (°C) : 23.7 ±2					Depth of Liquid (cm):>15				
Test Position Body	Antenna 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: 802.11ac-80M_0mm_ANT5									
Front	Fixed	0	58	5290	11.87	13	0.144	0.187	
Front	Fixed	0	138	5690	11.99	13	0.300	0.379	
Back	Fixed	0	58	5290	11.87	13	0.328	0.425	
Back	Fixed	0	138	5690	11.99	13	0.432	0.545	
Left-side	Fixed	0	58	5290	11.87	13	0.363	0.471	12
Left-side	Fixed	0	106	5530	11.92	13	0.531	0.681	
Left-side	Fixed	0	122	5610	11.95	13	0.563	0.717	13
Left-side	Fixed	0	138	5690	11.99	13	0.445	0.562	
Top	Fixed	0	58	5290	11.87	13	0.184	0.239	
Top	Fixed	0	138	5690	11.99	13	0.295	0.372	
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 ≤ 2 W/kg, no further SAR testing is required in that exposure configuration.									

WCDMA B2 Head SAR									
SAR MEASUREMENT									
Liquid Temperature (°C) : 21.9 ±2					Relative Humidity (%): 53				
Ambient Temperature (°C) : 23.1 ±2					Depth of Liquid (cm):>15				
Test Position Head	Antenna 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_ANT0									
Left-Cheek	Fixed	0	9262	1852.4	23.26	25	0.101	0.151	
Left-Cheek	Fixed	0	9400	1880	23.48	25	0.117	0.166	14
Left-Cheek	Fixed	0	9538	1907.6	24	25	0.119	0.150	
Left-Tilt	Fixed	0	9400	1880	23.48	25	0.073	0.103	
Right-Cheek	Fixed	0	9400	1880	23.48	25	0.082	0.116	
Right-Tilt	Fixed	0	9400	1880	23.48	25	0.062	0.088	
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 Hotspot & Body-worn SAR									
SAR MEASUREMENT									
Liquid Temperature (°C) : 22.1 ±2					Relative Humidity (%): 51				
Ambient Temperature (°C) : 23.4 ±2					Depth of Liquid (cm):>15				
Test Position Body	Antenna 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_ANT0									
Front	Fixed	10	9400	1880	16.9	18	0.205	0.264	15
Back	Fixed	10	9400	1880	16.9	18	0.199	0.256	
Left-Side	Fixed	10	9400	1880	16.9	18	0.037	0.048	
Right-Side	Fixed	10	9400	1880	16.9	18	0.022	0.028	
Bottom	Fixed	10	9262	1852.4	16.81	18	0.519	0.683	16
Bottom	Fixed	10	9400	1880	16.9	18	0.442	0.569	
Bottom	Fixed	10	9538	1907.6	16.78	18	0.428	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.									

WCDMA B4 Head SAR									
SAR MEASUREMENT									
Liquid Temperature (°C) : 22.1 ±2					Relative Humidity (%): 51				
Ambient Temperature (°C) : 23.5 ±2					Depth of Liquid (cm):>15				
Test Position Head	Antenna 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_ANT0									
Left-Cheek	Fixed	0	1312	1712.4	23.49	25	0.076	0.108	
Left-Cheek	Fixed	0	1413	1732.6	23.56	25	0.076	0.106	
Left-Cheek	Fixed	0	1513	1752.6	23.57	25	0.086	0.119	17
Left-Tilt	Fixed	0	1413	1732.6	23.56	25	0.025	0.035	
Right-Cheek	Fixed	0	1413	1732.6	23.56	25	0.046	0.064	
Right-Tilt	Fixed	0	1413	1732.6	23.56	25	0.028	0.039	
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 Hotspot & Body-worn SAR									
SAR MEASUREMENT									
Liquid Temperature (°C) : 21.8 ±2					Relative Humidity (%): 51				
Ambient Temperature (°C) : 22.9 ±2					Depth of Liquid (cm):>15				
Test Position Body	Antenna 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_ANT0									
Front	Fixed	10	1413	1732.6	16.57	18	0.220	0.306	18
Back	Fixed	10	1413	1732.6	16.57	18	0.209	0.291	
Left-Side	Fixed	10	1413	1732.6	16.57	18	0.046	0.064	
Right-Side	Fixed	10	1413	1732.6	16.57	18	0.031	0.043	
Bottom	Fixed	10	1312	1712.4	16.55	18	0.490	0.684	
Bottom	Fixed	10	1413	1732.6	16.57	18	0.504	0.701	
Bottom	Fixed	10	1513	1752.6	16.44	18	0.548	0.785	19
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) : 21.8 ±2					Relative Humidity (%): 52				
Ambient Temperature (°C) : 22.9 ±2					Depth of Liquid (cm):>15				
Test Position Head	Antenna 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_ANT0									
Left-Cheek	Fixed	0	4183	836.6	23.69	24.5	0.089	0.106	
Left-Tilt	Fixed	0	4183	836.6	23.69	24.5	0.049	0.059	
Right-Cheek	Fixed	0	4132	826.4	23.60	24.5	0.102	0.125	
Right-Cheek	Fixed	0	4183	836.6	23.69	24.5	0.111	0.134	
Right-Cheek	Fixed	0	4233	846.6	23.60	24.5	0.115	0.141	20
Right-Tilt	Fixed	0	4183	836.6	23.69	24.5	0.056	0.068	
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 Hotspot & Body-worn SAR									
SAR MEASUREMENT									
Liquid Temperature (°C) : 21.7 ±2					Relative Humidity (%): 52				
Ambient Temperature (°C) : 22.5 ±2					Depth of Liquid (cm):>15				
Test Position Body	Antenna 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 10mm_ANT0									
Front	Fixed	10	4183	836.6	23.69	24.5	0.090	0.109	
Back	Fixed	10	4132	826.4	23.60	24.5	0.079	0.098	
Back	Fixed	10	4183	836.6	23.69	24.5	0.087	0.104	
Back	Fixed	10	4233	846.6	23.60	24.5	0.194	0.239	21
Left-Side	Fixed	10	4183	836.6	23.69	24.5	0.039	0.047	
Right-Side	Fixed	10	4183	836.6	23.69	24.5	0.062	0.075	
Bottom	Fixed	10	4183	836.6	23.69	24.5	0.039	0.047	
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 2 Head SAR**SAR MEASUREMENT**

Liquid Temperature (°C): 21.9 ±2

Relative Humidity (%): 53

Ambient Temperature (°C): 23.1 ±2

Depth of Liquid (cm): >15

Test Position Head	Antenna 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 2_QPSK_20M_ANT0											
Left-Cheek	Fixed	0	1	50	18700	1860	23.57	25	0.100	0.139	
Left-Cheek	Fixed	0	1	50	18900	1880	23.59	25	0.103	0.143	
Left-Cheek	Fixed	0	1	50	19100	1900	23.80	25	0.147	0.194	22
Left-Cheek	Fixed	0	50	0	19100	1900	22.81	24	0.107	0.141	
Left-Tilt	Fixed	0	1	50	19100	1900	23.80	25	0.076	0.100	
Right-Cheek	Fixed	0	1	50	19100	1900	23.80	25	0.110	0.145	
Right-Tilt	Fixed	0	1	50	19100	1900	23.80	25	0.071	0.093	
Test Mode: LTE Band 2_QPSK_20M_ANT1											
Left-Cheek	Fixed	0	1	50	19100	1900	23.80	25	< 0.001	< 0.001	
Left-Tilt	Fixed	0	1	50	19100	1900	23.80	25	< 0.001	< 0.001	
Left-Tilt	Fixed	0	50	0	19100	1900	22.81	24	< 0.001	< 0.001	
Right-Cheek	Fixed	0	1	50	19100	1900	23.80	25	< 0.001	< 0.001	
Right-Tilt	Fixed	0	1	50	19100	1900	23.80	25	< 0.001	< 0.001	
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 2 Hotspot & Body-worn SAR**SAR MEASUREMENT**

Liquid Temperature (°C): 22.1 ±2

Relative Humidity (%): 51

Ambient Temperature (°C): 23.4 ±2

Depth of Liquid (cm): >15

Test Position Body	Antenna 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 2_QPSK_20M 10mm_ANT0											
Front	Fixed	10	1	50	18900	1880	16.92	18	0.207	0.265	
Back	Fixed	10	1	50	18900	1880	16.92	18	0.285	0.365	23
Left-side	Fixed	10	1	50	18900	1880	16.92	18	0.048	0.062	
Right-side	Fixed	10	1	50	18900	1880	16.92	18	0.020	0.026	
Bottom	Fixed	10	1	0	18700	1860	16.88	18	0.564	0.730	24
Bottom	Fixed	10	1	50	18900	1880	16.92	18	0.470	0.603	
Bottom	Fixed	10	1	50	19100	1900	16.67	18	0.426	0.579	
Bottom	Fixed	10	50	0	18700	1860	15.75	17	0.357	0.476	
Test Mode: LTE Band 2_QPSK_20M 10mm_ANT1											
Front	Fixed	10	1	50	18900	1880	16.92	18	0.023	0.029	
Back	Fixed	10	1	50	18900	1880	16.92	18	0.024	0.031	
Right-side	Fixed	10	1	50	18900	1880	16.92	18	0.013	0.017	
Bottom	Fixed	10	1	50	18900	1880	16.92	18	0.025	0.032	
Bottom	Fixed	10	50	0	18700	1860	15.75	17	0.021	0.028	

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 5 Head SAR**SAR MEASUREMENT**

Liquid Temperature (°C): 21.8 ±2

Relative Humidity (%): 52

Ambient Temperature (°C): 22.9 ±2

Depth of Liquid (cm): >15

Test Position Head	Antenna 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 5_QPSK_10M_ANT0											
Left-Cheek	Fixed	0	1	25	20525	836.5	22.94	24	0.097	0.124	
Left-Tilt	Fixed	0	1	25	20525	836.5	22.94	24	0.057	0.072	
Right-Cheek	Fixed	0	1	25	20525	836.5	22.94	24	0.125	0.160	
Right-Cheek	Fixed	0	25	0	20525	836.5	22.03	23	0.105	0.131	
Right-Tilt	Fixed	0	1	25	20525	836.5	22.94	24	0.068	0.087	
Test Mode: LTE Band 5B_QPSK_10M_ANT0											
Right-Cheek	Fixed	0	1	49	20450	829	23.65	24	0.087	0.094	
Test Mode: LTE Band 5_QPSK_10M_ANT2											
Left-Cheek	Fixed	0	1	25	20525	836.5	22.94	24	0.611	0.780	
Left-Tilt	Fixed	0	1	25	20450	829	22.93	24	0.589	0.754	
Left-Tilt	Fixed	0	1	25	20525	836.5	22.94	24	0.646	0.825	
Left-Tilt	Fixed	0	1	25	20600	844	22.83	24	0.531	0.695	
Right-Cheek	Fixed	0	1	25	20450	829	22.93	24	0.741	0.948	
Right-Cheek	Fixed	0	1	25	20525	836.5	22.94	24	0.757	0.966	25
Right-Cheek	Fixed	0	1	25	20600	844	22.83	24	0.688	0.901	
Right-Cheek	Fixed	0	25	0	20525	836.5	22.03	23	0.583	0.729	
Right-Cheek	Fixed	0	50	0	20525	836.5	21.97	23	0.584	0.740	
Right-Tilt	Fixed	0	1	25	20450	829	22.93	24	0.640	0.819	
Right-Tilt	Fixed	0	1	25	20525	836.5	22.94	24	0.664	0.848	
Right-Tilt	Fixed	0	1	25	20600	844	22.83	24	0.616	0.806	
Test Mode: LTE Band 5B_QPSK_10M_ANT0_ANT2											
Right-Cheek	Fixed	0	1	49	20450	829	23.65	24	0.582	0.631	
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 5 Hotspot & Body-worn SAR**SAR MEASUREMENT**

Liquid Temperature (°C): 21.7 ±2

Relative Humidity (%): 52

Ambient Temperature (°C): 22.5 ±2

Depth of Liquid (cm): >15

Test Position Body	Antenna 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 5_QPSK_10M_10mm_ANT0											
Front	Fixed	10	1	25	20525	836.5	22.94	24.5	0.182	0.261	
Front	Fixed	10	25	0	20525	836.5	22.03	23.5	0.130	0.182	
Back	Fixed	10	1	25	20525	836.5	22.94	24.5	0.171	0.245	
Left-side	Fixed	10	1	25	20525	836.5	22.94	24.5	0.019	0.027	
Right-side	Fixed	10	1	25	20525	836.5	22.94	24.5	0.106	0.152	
Bottom	Fixed	10	1	25	20525	836.5	22.94	24.5	0.095	0.136	
Test Mode: LTE Band 5B_10M_10mm_ANT0											
Front	Fixed	10	1	49	20450	829	23.65	24.5	0.132	0.161	
Test Mode: LTE Band 5_QPSK_10M_10mm_ANT2											
Front	Fixed	10	1	25	20525	836.5	22.94	24.5	0.274	0.392	
Back	Fixed	10	1	25	20450	829	22.93	24.5	0.320	0.459	26
Back	Fixed	10	1	25	20525	836.5	22.94	24.5	0.281	0.402	
Back	Fixed	10	1	25	20600	844	22.83	24.5	0.262	0.385	
Back	Fixed	10	25	0	20525	836.5	22.03	23.5	0.235	0.330	
Left-side	Fixed	10	1	25	20525	836.5	22.94	24.5	0.068	0.097	
Right-side	Fixed	10	1	25	20525	836.5	22.94	24.5	0.107	0.153	
Top	Fixed	10	1	25	20525	836.5	22.94	24.5	0.279	0.400	
Test Mode: LTE Band 5B_10M_10mm_ANT2											
Back	Fixed	10	1	49	20450	829	23.65	24.5	0.243	0.296	
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): 21.8 ±2

Relative Humidity (%): 52

Ambient Temperature (°C): 22.9 ±2

Depth of Liquid (cm): >15

Test Position Head	Antenna 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_ANT0											
Left-Cheek	Fixed	0	1	25	23060	704	23.3	24	0.074	0.086	
Left-Tilt	Fixed	0	1	25	23060	704	23.3	24	0.035	0.041	
Right-Cheek	Fixed	0	1	25	23060	704	23.3	24	0.091	0.107	
Right-Cheek	Fixed	0	25	12	23060	704	22.21	23	0.070	0.084	
Right-Tilt	Fixed	0	1	25	23060	704	23.3	24	0.037	0.044	
Test Mode: LTE Band 12_QPSK_10M_ANT2											
Left-Cheek	Fixed	0	1	25	23060	704	23.3	24	0.829	0.974	
Left-Cheek	Fixed	0	1	49	23095	707.5	23.3	24	0.714	0.839	
Left-Cheek	Fixed	0	1	25	23130	711	23.3	24	0.719	0.845	
Left-Tilt	Fixed	0	1	25	23060	704	23.3	24	0.804	0.945	
Left-Tilt	Fixed	0	1	49	23095	707.5	23.3	24	0.715	0.840	
Left-Tilt	Fixed	0	1	25	23130	711	23.3	24	0.720	0.846	
Right-Cheek	Fixed	0	1	25	23060	704	23.3	24	0.910	1.069	27
Right-Cheek	Fixed	0	1	49	23095	707.5	23.3	24	0.870	1.022	
Right-Cheek	Fixed	0	1	25	23130	711	23.3	24	0.871	1.023	
Right-Cheek	Fixed	0	25	12	23060	704	22.26	23	0.696	0.825	
Right-Cheek	Fixed	0	25	12	23095	707.5	22.24	23	0.648	0.772	
Right-Cheek	Fixed	0	25	12	23130	711	22.25	23	0.655	0.778	
Right-Cheek	Fixed	0	50	0	23130	711	22.24	23	0.601	0.716	
Right-Tilt	Fixed	0	1	25	23060	704	23.3	24	0.794	0.933	
Right-Tilt	Fixed	0	1	49	23095	707.5	23.3	24	0.804	0.945	
Right-Tilt	Fixed	0	1	25	23130	711	23.3	24	0.804	0.945	

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 Hotspot & Body-worn SAR**SAR MEASUREMENT**

Liquid Temperature (°C): 21.7 ±2

Relative Humidity (%): 52

Ambient Temperature (°C): 22.5 ±2

Depth of Liquid (cm): >15

Test Position Body	Antenna 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_ANT0											
Front	Fixed	10	1	25	23060	704	23.3	24.5	0.124	0.163	
Front	Fixed	10	25	12	23060	704	22.26	23.5	0.088	0.117	
Back	Fixed	10	1	25	23060	704	23.3	24.5	0.115	0.152	
Left-side	Fixed	10	1	25	23060	704	23.3	24.5	0.084	0.110	
Right-side	Fixed	10	1	25	23060	704	23.3	24.5	0.105	0.138	
Bottom	Fixed	10	1	25	23060	704	23.3	24.5	0.077	0.101	
Test Mode: LTE Band 12_QPSK_10M_ANT2											
Front	Fixed	10	1	25	23060	704	23.3	24.5	0.328	0.432	
Back	Fixed	10	1	25	23060	704	23.3	24.5	0.447	0.589	28
Back	Fixed	10	1	49	23095	707.5	23.3	24.5	0.347	0.457	
Back	Fixed	10	1	25	23130	711	23.3	24.5	0.348	0.459	
Back	Fixed	10	25	12	23060	704	22.26	23.5	0.264	0.351	
Left-side	Fixed	10	1	25	23060	704	23.3	24.5	0.036	0.048	
Right-side	Fixed	10	1	25	23060	704	23.3	24.5	0.187	0.247	
Top	Fixed	10	1	25	23060	704	23.3	24.5	0.317	0.418	
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 14 Head SAR**SAR MEASUREMENT**

Liquid Temperature (°C): 21.8 ±2

Relative Humidity (%): 52

Ambient Temperature (°C): 22.9 ±2

Depth of Liquid (cm): >15

Test Position Head	Antenna 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 14_QPSK_10M_ANT0											
Left-Cheek	Fixed	0	1	25	23330	793	23.32	24	0.103	0.120	
Left-Tilt	Fixed	0	1	25	23330	793	23.32	24	0.058	0.067	
Right-Cheek	Fixed	0	1	25	23330	793	23.32	24	0.133	0.156	
Right-Cheek	Fixed	0	25	12	23330	793	22.33	23	0.104	0.121	
Right-Tilt	Fixed	0	1	25	23330	793	23.32	24	0.065	0.076	
Test Mode: LTE Band 14_QPSK_10M_ANT2											
Left-Cheek	Fixed	0	1	25	23330	793	23.32	24	0.611	0.715	
Left-Tilt	Fixed	0	1	25	23330	793	23.32	24	0.595	0.696	
Right-Cheek	Fixed	0	1	25	23330	793	23.32	24	0.763	0.892	29
Right-Cheek	Fixed	0	25	12	23330	793	22.33	23	0.629	0.734	
Right-Tilt	Fixed	0	1	25	23330	793	23.32	24	0.691	0.808	

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 14 Hotspot & Body-worn SAR**SAR MEASUREMENT**

Liquid Temperature (°C): 21.7 ±2

Relative Humidity (%): 52

Ambient Temperature (°C): 22.5 ±2

Depth of Liquid (cm): >15

Test Position Body	Antenna 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 14_QPSK_10M_10mm_ANT0											
Front	Fixed	10	1	25	23330	793	23.32	24.5	0.157	0.206	
Back	Fixed	10	1	25	23330	793	23.32	24.5	0.178	0.234	
Back	Fixed	10	25	12	23330	793	22.33	23.5	0.133	0.174	
Left-side	Fixed	10	1	25	23330	793	23.32	24.5	0.075	0.098	
Right-side	Fixed	10	1	25	23330	793	23.32	24.5	0.130	0.171	
Bottom	Fixed	10	1	25	23330	793	23.32	24.5	0.104	0.136	
Test Mode: LTE Band 12_QPSK_10M_ANT2											
Front	Fixed	10	1	25	23330	793	23.32	24.5	0.265	0.348	
Back	Fixed	10	1	25	23330	793	23.32	24.5	0.363	0.476	30
Back	Fixed	10	25	12	23330	793	22.33	23.5	0.215	0.281	
Left-side	Fixed	10	1	25	23330	793	23.32	24.5	0.019	0.025	
Right-side	Fixed	10	1	25	23330	793	23.32	24.5	0.114	0.150	
Top	Fixed	10	1	25	23330	793	23.32	24.5	0.277	0.363	
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 30 Head SAR**SAR MEASUREMENT**

Liquid Temperature (°C): 21.8 ±2

Relative Humidity (%): 52

Ambient Temperature (°C): 22.9 ±2

Depth of Liquid (cm): >15

Test Position Head	Antenna 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 30_QPSK_10M_ANT0											
Left-Cheek	Fixed	0	1	25	27710	2310	23.2	24	0.104	0.125	31
Left-Cheek	Fixed	0	25	12	27710	2310	22.16	23	0.094	0.115	
Left-Tilt	Fixed	0	1	25	27710	2310	23.2	24	0.098	0.117	
Right-Cheek	Fixed	0	1	25	27710	2310	23.2	24	0.062	0.074	
Right-Tilt	Fixed	0	1	25	27710	2310	23.2	24	0.056	0.068	
Test Mode: LTE Band 30_QPSK_10M_ANT1											
Left-Cheek	Fixed	0	1	25	27710	2310	23.2	24	0.030	0.036	
Left-Tilt	Fixed	0	1	25	27710	2310	23.2	24	0.029	0.034	
Right-Cheek	Fixed	0	1	25	27710	2310	23.2	24	0.051	0.061	
Right-Cheek	Fixed	0	25	12	27710	2310	22.16	23	0.032	0.039	
Right-Tilt	Fixed	0	1	25	27710	2310	23.2	24	0.027	0.032	

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 30 Hotspot & Body-worn SAR**SAR MEASUREMENT**

Liquid Temperature (°C): 21.7 ±2

Relative Humidity (%): 52

Ambient Temperature (°C): 22.5 ±2

Depth of Liquid (cm): >15

Test Position Body	Antenna 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 30_QPSK_10M_10mm_ANT0											
Front	Fixed	10	1	25	27710	2310	16.32	18	0.163	0.240	
Back	Fixed	10	1	25	27710	2310	16.32	18	0.174	0.256	32
Left-side	Fixed	10	1	25	27710	2310	16.32	18	0.061	0.090	
Right-side	Fixed	10	1	25	27710	2310	16.32	18	0.014	0.021	
Bottom	Fixed	10	1	25	27710	2310	16.32	18	0.381	0.561	33
Bottom	Fixed	10	25	12	27710	2310	15.55	17	0.323	0.451	
Test Mode: LTE Band 30_QPSK_10M_10mm_ANT1											
Front	Fixed	10	1	25	27710	2310	16.32	18	0.065	0.096	
Back	Fixed	10	1	25	27710	2310	16.32	18	0.063	0.093	
Right-side	Fixed	10	1	25	27710	2310	16.32	18	0.049	0.072	
Bottom	Fixed	10	1	25	27710	2310	16.32	18	0.073	0.107	
Bottom	Fixed	10	25	12	27710	2310	15.55	17	0.061	0.085	
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 66 Head SAR**SAR MEASUREMENT**

Liquid Temperature (°C): 22.1 ±2

Relative Humidity (%): 51

Ambient Temperature (°C): 23.5 ±2

Depth of Liquid (cm): >15

Test Position Head	Antenna 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 66_QPSK_20M_ANT0											
Left-Cheek	Fixed	0	1	50	132072	1720	23.27	25	0.105	0.156	34
Left-Cheek	Fixed	0	1	50	132322	1745	23.46	25	0.092	0.131	
Left-Cheek	Fixed	0	1	50	132572	1770	23.57	25	0.092	0.128	
Left-Cheek	Fixed	0	50	25	132572	1770	22.62	24	0.071	0.098	
Left-Tilt	Fixed	0	1	50	132572	1770	23.57	25	0.021	0.029	
Right-Cheek	Fixed	0	1	50	132572	1770	23.57	25	0.066	0.091	
Right-Tilt	Fixed	0	1	50	132572	1770	23.57	25	0.048	0.066	
Test Mode: LTE Band 66_QPSK_20M_ANT1											
Left-Cheek	Fixed	0	1	50	132572	1770	23.57	25	0.038	0.053	
Left-Tilt	Fixed	0	1	50	132572	1770	23.57	25	0.015	0.021	
Right-Cheek	Fixed	0	1	50	132572	1770	23.57	25	0.050	0.070	
Right-Cheek	Fixed	0	50	25	132572	1770	22.62	24	0.039	0.054	
Right-Tilt	Fixed	0	1	50	132572	1770	23.57	25	0.024	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.											
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): 21.8 ±2

Relative Humidity (%): 51

Ambient Temperature (°C): 22.9 ±2

Depth of Liquid (cm): >15

Test Position Body	Antenna 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 66_QPSK_20M_10mm_ANT0											
Front	Fixed	10	1	50	132572	1770	16.95	18	0.331	0.422	35
Back	Fixed	10	1	50	132572	1770	16.95	18	0.191	0.243	
Left-side	Fixed	10	1	50	132572	1770	16.95	18	0.070	0.089	
Right-side	Fixed	10	1	50	132572	1770	16.95	18	0.039	0.050	
Bottom	Fixed	10	1	0	132072	1720	16.82	18	0.498	0.653	
Bottom	Fixed	10	1	0	132322	1745	16.8	18	0.545	0.718	
Bottom	Fixed	10	1	50	132572	1770	16.95	18	0.624	0.795	36
Bottom	Fixed	10	50	25	132572	1770	15.92	17	0.512	0.657	
Test Mode: LTE Band 66_QPSK_20M_10mm_ANT1											
Front	Fixed	10	1	50	132572	1770	16.95	18	0.012	0.015	
Back	Fixed	10	1	50	132572	1770	16.95	18	0.014	0.018	
Right-side	Fixed	10	1	50	132572	1770	16.95	18	0.006	0.008	
Bottom	Fixed	10	1	50	132572	1770	16.95	18	0.015	0.019	
Bottom	Fixed	10	50	25	132572	1770	15.92	17	0.007	0.009	
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. 2. LTE Band 4 (1710-1755 MHz) is covered by LTE Band 66 (1710-1780 MHz)											

NR n2 Head SAR**SAR MEASUREMENT**

Liquid Temperature (°C): 21.7 ±2

Relative Humidity (%): 52

Ambient Temperature (°C): 22.9 ±2

Depth of Liquid (cm): >15

Test Position Head	Antenna 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: NR n2_DFT_s_QPSK_20M_ANT0											
Left-Cheek	Fixed	0	1	1	372000	1860	23.82	25	0.089	0.117	
Left-Cheek	Fixed	0	1	1	376000	1880	23.9	25	0.121	0.156	37
Left-Cheek	Fixed	0	1	1	380000	1900	23.87	25	0.101	0.131	
Left-Cheek	Fixed	0	50	28	376000	1880	23.6	25	0.098	0.135	
Left-Tilt	Fixed	0	1	1	376000	1880	23.9	25	0.088	0.113	
Right-Cheek	Fixed	0	1	1	376000	1880	23.9	25	0.113	0.146	
Right-Tilt	Fixed	0	1	1	376000	1880	23.9	25	0.082	0.105	

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.

NR n2 Hotspot & Body-worn SAR**SAR MEASUREMENT**

Liquid Temperature (°C): 21.7 ±2

Relative Humidity (%): 52

Ambient Temperature (°C): 22.9 ±2

Depth of Liquid (cm): >15

Test Position Body	Antenna 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: NR n2_DFT_s_QPSK_20M_10mm_ANT0											
Front	Fixed	10	1	1	376000	1880	17.95	18	0.348	0.352	
Back	Fixed	10	1	1	376000	1880	17.95	18	0.364	0.368	39
Left-side	Fixed	10	1	1	376000	1880	17.95	18	0.055	0.056	
Right-side	Fixed	10	1	1	376000	1880	17.95	18	0.037	0.037	
Bottom	Fixed	10	1	1	372000	1860	17.6	18	0.616	0.675	
Bottom	Fixed	10	1	1	376000	1880	17.95	18	0.737	0.746	
Bottom	Fixed	10	1	1	380000	1900	17.8	18	0.761	0.797	39
Bottom	Fixed	10	50	28	380000	1900	17.83	18	0.609	0.633	

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.

NR n5 Head SAR**SAR MEASUREMENT**

Liquid Temperature (°C): 22.3 ±2

Relative Humidity (%): 52

Ambient Temperature (°C): 23.4 ±2

Depth of Liquid (cm): >15

Test Position Head	Antenna 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: NR_n5_DFT_s_QPSK_20M_ANT0											
Left-Cheek	Fixed	0	1	1	167300	836.5	22.95	24	0.056	0.071	
Left-Tilt	Fixed	0	1	1	167300	836.5	22.95	24	0.020	0.025	
Right-Cheek	Fixed	0	1	1	167300	836.5	22.95	24	0.068	0.087	
Right-Cheek	Fixed	0	50	28	167300	836.5	22.91	24	0.111	0.143	
Right-Tilt	Fixed	0	1	1	167300	836.5	22.95	24	0.032	0.041	
Test Mode: NR_n5_DFT_s_QPSK_20M_ANT2											
Left-Cheek	Fixed	0	1	1	166800	834	22.93	24	0.676	0.865	
Left-Cheek	Fixed	0	1	1	167300	836.5	22.95	24	0.707	0.900	
Left-Cheek	Fixed	0	1	1	167800	839	22.94	24	0.727	0.928	
Left-Tilt	Fixed	0	1	1	166800	834	22.93	24	0.653	0.835	
Left-Tilt	Fixed	0	1	1	167300	836.5	22.95	24	0.693	0.883	
Left-Tilt	Fixed	0	1	1	167800	839	22.94	24	0.701	0.895	
Right-Cheek	Fixed	0	1	1	166800	834	22.93	24	0.837	1.071	
Right-Cheek	Fixed	0	1	1	167300	836.5	22.95	24	0.782	0.996	
Right-Cheek	Fixed	0	1	1	167800	839	22.94	24	0.892	1.139	40
Right-Cheek	Fixed	0	50	28	166800	834	22.87	24	0.730	0.947	
Right-Cheek	Fixed	0	50	28	167300	836.5	22.91	24	0.813	1.045	
Right-Cheek	Fixed	0	50	28	167800	839	22.91	24	0.761	0.978	
Right-Cheek	Fixed	0	100	0	167300	836.5	22.86	23.5	0.763	0.884	
Right-Tilt	Fixed	0	1	1	166800	834	22.93	24	0.640	0.819	
Right-Tilt	Fixed	0	1	1	167300	836.5	22.95	24	0.750	0.955	
Right-Tilt	Fixed	0	1	1	167800	839	22.94	24	0.683	0.872	

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.

NR n5 Hotspot & Body-worn SAR**SAR MEASUREMENT**

Liquid Temperature (°C): 22.3 ±2

Relative Humidity (%): 52

Ambient Temperature (°C): 23.4 ±2

Depth of Liquid (cm): >15

Test Position Body	Antenna 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: NR n5_DFT_s_QPSK_20M_10mm_ANT0											
Front	Fixed	10	1	1	167300	836.5	22.95	24.5	0.194	0.277	
Front	Fixed	10	50	28	167300	836.5	22.91	24.5	0.115	0.166	
Back	Fixed	10	1	1	167300	836.5	22.95	24.5	0.178	0.254	
Left-side	Fixed	10	1	1	167300	836.5	22.95	24.5	0.034	0.049	
Right-side	Fixed	10	1	1	167300	836.5	22.95	24.5	0.045	0.064	
Bottom	Fixed	10	1	1	167300	836.5	22.95	24.5	0.054	0.077	
Test Mode: NR_n5_DFT_s_QPSK_20M_10mm_ANT2											
Front	Fixed	10	1	1	166800	834	22.93	24.5	0.234	0.336	
Front	Fixed	10	1	1	167300	836.5	22.95	24.5	0.271	0.387	
Front	Fixed	10	1	1	167800	839	22.94	24.5	0.290	0.415	41
Front	Fixed	10	50	28	167800	839	22.91	24.5	0.249	0.359	
Back	Fixed	10	1	1	167300	836.5	22.95	24.5	0.260	0.372	
Left-side	Fixed	10	1	1	167300	836.5	22.95	24.5	0.041	0.059	
Right-side	Fixed	10	1	1	167300	836.5	22.95	24.5	0.138	0.197	
Top	Fixed	10	1	1	167300	836.5	22.95	24.5	0.236	0.337	
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.											

NR n66 Head SAR**SAR MEASUREMENT**

Liquid Temperature (°C): 22.2 ±2

Relative Humidity (%): 50

Ambient Temperature (°C): 23.5 ±2

Depth of Liquid (cm): >15

Test Position Head	Antenna 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: NR n66_DFT_s_QPSK_40M_ANT0											
Left-Cheek	Fixed	0	1	1	346000	1730	23.89	25	0.093	0.120	42
Left-Cheek	Fixed	0	1	1	349000	1745	23.94	25	0.082	0.104	
Left-Cheek	Fixed	0	1	1	352000	1760	23.8	25	0.072	0.095	
Left-Cheek	Fixed	0	108	54	349000	1745	23.46	25	0.074	0.105	
Left-Tilt	Fixed	0	1	1	349000	1745	23.94	25	0.042	0.053	
Right-Cheek	Fixed	0	1	1	349000	1745	23.94	25	0.055	0.070	
Right-Tilt	Fixed	0	1	1	349000	1745	23.94	25	0.058	0.074	

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.

NR n66 Hotspot & Body-worn SAR**SAR MEASUREMENT**

Liquid Temperature (°C): 22.2 ±2

Relative Humidity (%): 50

Ambient Temperature (°C): 23.5 ±2

Depth of Liquid (cm): >15

Test Position Body	Antenna 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: NR n66_DFT_s_QPSK_40M_10mm_ANT0											
Front	Fixed	10	1	1	346000	1730	17.98	18	0.265	0.266	
Back	Fixed	10	1	1	346000	1730	17.98	18	0.265	0.266	43
Left-side	Fixed	10	1	1	346000	1730	17.98	18	0.067	0.067	
Right-side	Fixed	10	1	1	346000	1730	17.98	18	0.033	0.033	
Bottom	Fixed	10	1	1	346000	1730	17.98	18	0.493	0.495	44
Bottom	Fixed	10	1	1	349000	1745	17.86	18	0.430	0.444	
Bottom	Fixed	10	1	1	352000	1760	17.85	18	0.463	0.479	
Bottom	Fixed	10	108	54	346000	1730	17.89	18	0.427	0.438	

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.

9.2 Simultaneous Transmission

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

Worst Case SAR_Head Exposure Conditions

WWAN BAND	Left-Cheek	Left-Tilt	Right-Cheek	Right-Tilt
WCDMA B2	0.166	0.103	0.116	0.088
WCDMA B4	0.119	0.035	0.064	0.039
WCDMA B5	0.106	0.059	0.141	0.068
LTE Band 2	0.194	0.100	0.145	0.093
LTE Band 5	0.780	0.825	0.966	0.848
LTE Band 12	0.974	0.945	1.069	0.945
LTE Band 14	0.715	0.696	0.892	0.808
LTE Band 30	0.125	0.117	0.074	0.068
LTE Band 66	0.156	0.029	0.091	0.066
NR n2	0.156	0.113	0.146	0.105
NR n5	0.928	0.895	1.139	0.955
NR n66	0.120	0.053	0.070	0.074
WWAN BAND	Left-Cheek	Left-Tilt	Right-Cheek	Right-Tilt
WLAN2.4G	0.150	0.223	0.364	0.326
WLAN5G	0.189	0.202	0.213	0.249
BT	0.072	0.112	0.179	0.165

Worst Case SAR_Hotspot & Body-worn Exposure Conditions

WWAN Band	Front	Back	Left-side	Right-side	Top	Bottom
WCDMA B2	0.264	0.256	0.048	0.028	--	0.683
WCDMA B4	0.306	0.291	0.064	0.043	--	0.785
WCDMA B5	0.109	0.239	0.047	0.075	--	0.047
LTE Band 2	0.265	0.365	0.062	0.026	--	0.730
LTE Band 5	0.392	0.459	0.097	0.153	0.400	0.136
LTE Band 12	0.432	0.589	0.110	0.247	0.418	0.101
LTE Band 14	0.348	0.476	0.098	0.171	0.363	0.136
LTE Band 30	0.240	0.256	0.090	0.072	--	0.561
LTE Band 66	0.422	0.243	0.089	0.050	--	0.795
NR n2	0.352	0.368	0.056	0.037	--	0.797
NR n5	0.415	0.372	0.059	0.197	0.337	0.077
NR n66	0.266	0.266	0.067	0.033	--	0.495
WWAN Band	Front	Back	Left-side	Right-side	Top	Bottom
WLAN2.4G	0.165	0.265	0.096	--	0.379	--
WLAN5G	0.112	0.289	0.165	--	0.175	--
BT	0.038	0.046	0.021	--	0.048	--

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	1+3	1+4	1+3+4
		WWAN (W/Kg)	DTS (W/Kg)	UNII (W/Kg)	BT (W/Kg)				
						Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR
Left-Cheek	LTE B12	0.974	0.150	0.189	0.072	1.124	1.163	1.046	1.235
Left-Tilt	LTE B12	0.945	0.223	0.202	0.112	1.168	1.147	1.057	1.259
Right-Cheek	NR n5	1.139	0.364	0.213	0.179	1.503	1.352	1.318	1.531
Right-Tilt	NR n5	0.955	0.326	0.249	0.165	1.281	1.204	1.120	1.369

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

Hotspot & Body-worn Exposure Conditions

Simultaneous Transmission Summation Scenario

Test Position	Worst Case WWAN Band	1	2	3	4	1+2	1+3	1+4	1+3+4
		WWAN (W/Kg)	DTS (W/Kg)	UNII (W/Kg)	BT (W/Kg)				
						Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR
Front	LTE B12	0.432	0.165	0.112	0.038	0.597	0.544	0.470	0.582
Back	LTE B12	0.589	0.265	0.289	0.046	0.854	0.878	0.635	0.924
Left-side	LTE B12	0.110	0.096	0.165	0.021	0.206	0.275	0.131	0.296
Right-side	LTE B12	0.247	0.000	0.000	0.000	0.247	0.247	0.247	0.247
Top	LTE B12	0.418	0.379	0.175	0.048	0.797	0.593	0.466	0.641
Bottom	NR n2	0.797	0.000	0.000	0.000	0.797	0.797	0.797	0.797

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

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 ($\sim 10\%$ 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
LTE	B12	23060	704	0.910	0.821	1.108	N/A	N/A	N/A	N/A
NR	n5	167800	839	0.892	0.891	1.001	N/A	N/A	N/A	N/A

Appendix

Appendix A. SAR System Check Data

Appendix B. SAR measurement Data

Appendix C. Probe Calibration Data

Appendix D. Dipole Calibration Data

Appendix E. Photographs of Test Configuration

Appendix F. Photographs of the EUT

Appendix A. SAR System Check Data

Test Laboratory: DEKRA

Date/Time: 2021/05/17

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: $f = 750 \text{ MHz}$; $\sigma = 0.87 \text{ S/m}$; $\epsilon_r = 42.38$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 22.5, Liquid Temperature ($^{\circ}\text{C}$) : 21.7

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(10.21, 10.21, 10.21); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left 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: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 2.17 W/kg

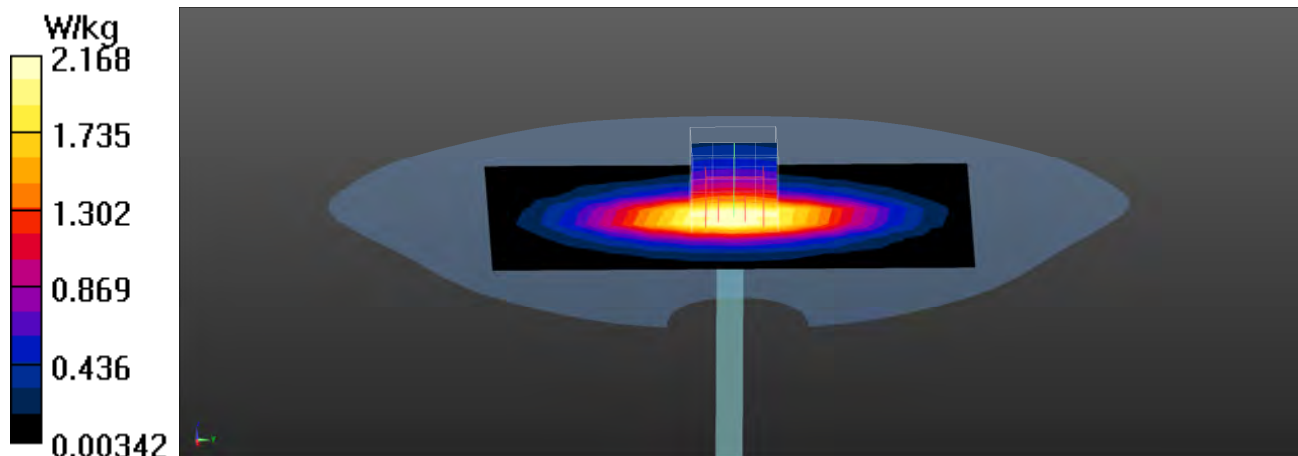
Configuration/750MHz Head/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 57.51 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 3.09 W/kg

SAR(1 g) = 2.13 W/kg; SAR(10 g) = 1.39 W/kg

Maximum value of SAR (measured) = 2.51 W/kg



Test Laboratory: DEKRA

Date/Time: 2021/05/25

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: $f = 750 \text{ MHz}$; $\sigma = 0.89 \text{ S/m}$; $\epsilon_r = 42.28$; $\rho = 1000 \text{ kg/m}^3$

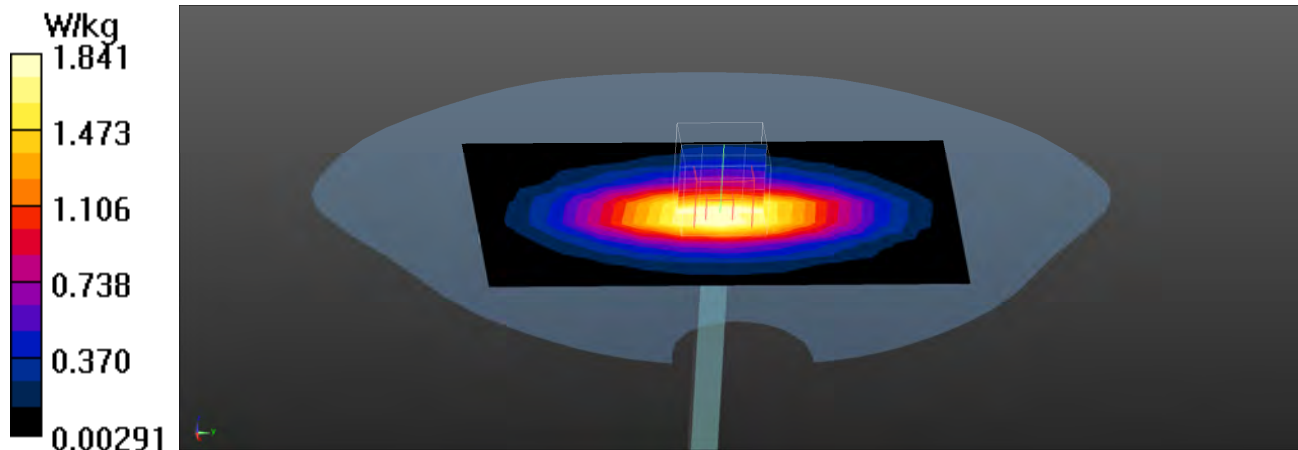
Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 22.9, Liquid Temperature ($^{\circ}\text{C}$) : 21.8

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(10.21, 10.21, 10.21); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left 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: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 1.84 W/kg **Configuration/750MHz Head/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 53.10 V/m ; Power Drift = -0.14 dB Peak SAR (extrapolated) = 3.04 W/kg **SAR(1 g) = 1.99 W/kg ; SAR(10 g) = 1.34 W/kg** Maximum value of SAR (measured) = 2.10 W/kg 

Test Laboratory: DEKRA

Date/Time: 2021/06/04

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: $f = 750 \text{ MHz}$; $\sigma = 0.88 \text{ S/m}$; $\epsilon_r = 42.49$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 23.4, Liquid Temperature ($^{\circ}\text{C}$) : 22.3

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(10.21, 10.21, 10.21); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left 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: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 1.90 W/kg

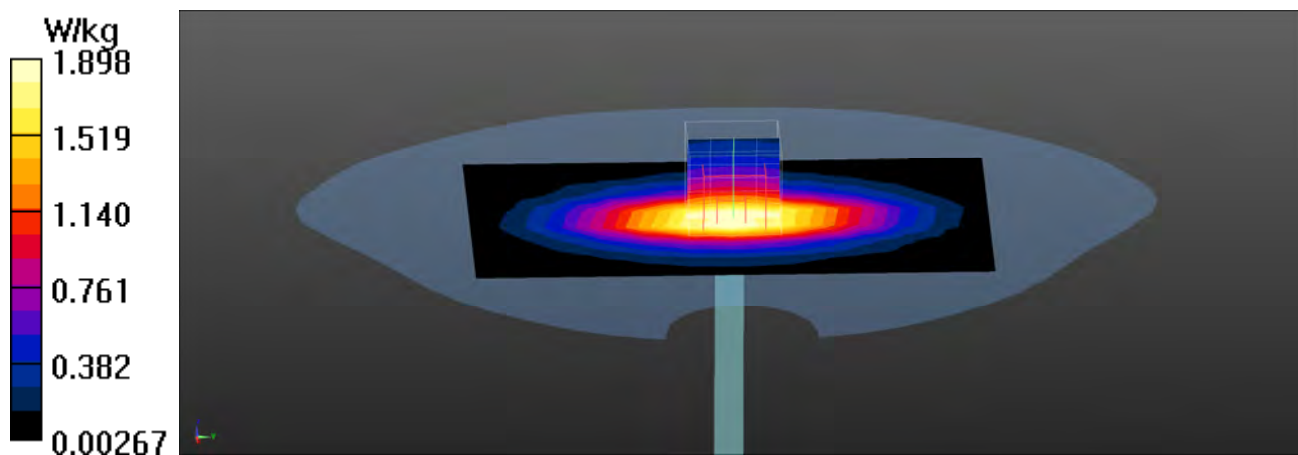
Configuration/750MHz Head/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 53.77 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 2.95 W/kg

SAR(1 g) = 2.01 W/kg; SAR(10 g) = 1.28 W/kg

Maximum value of SAR (measured) = 2.20 W/kg



Test Laboratory: DEKRA

Date/Time: 2021/05/13

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; $\sigma = 1.38$ S/m; $\epsilon_r = 40.44$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 23.5, Liquid Temperature (°C) : 22.1

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.35, 8.35, 8.35); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left 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) = 9.70 W/kg

Configuration/1750MHz Head/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:

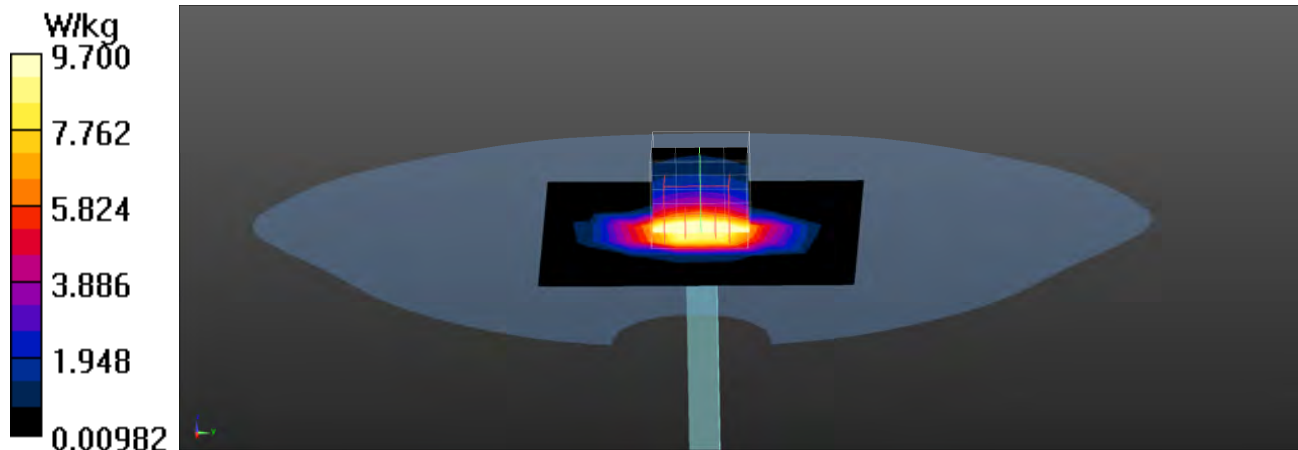
dx=8mm, dy=8mm, dz=5mm

Reference Value = 105.5 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 17.6 W/kg

SAR(1 g) = 8.98 W/kg; SAR(10 g) = 4.66 W/kg

Maximum value of SAR (measured) = 14.4 W/kg



Test Laboratory: DEKRA

Date/Time: 2021/05/26

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: $f = 1750 \text{ MHz}$; $\sigma = 1.37 \text{ S/m}$; $\epsilon_r = 40.25$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 23.5, Liquid Temperature ($^{\circ}\text{C}$) : 22.2

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.35, 8.35, 8.35); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left 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: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 9.91 W/kg

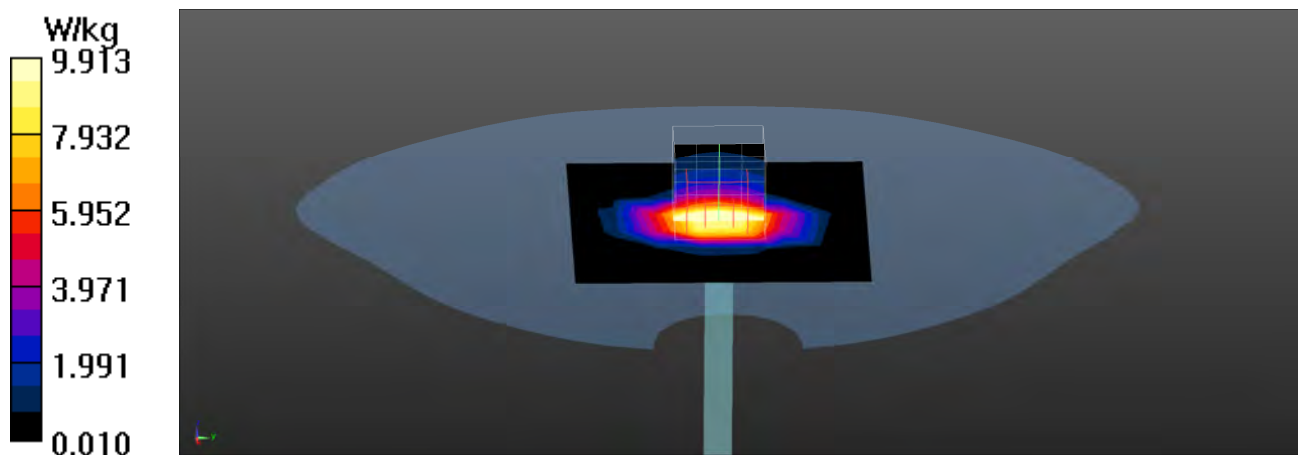
Configuration/1750MHz Head/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 106.3 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 18.0 W/kg

SAR(1 g) = 9.17 W/kg; SAR(10 g) = 4.76 W/kg

Maximum value of SAR (measured) = 14.7 W/kg



Test Laboratory: DEKRA

Date/Time: 2021/06/03

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; $\sigma = 1.39$ S/m; $\epsilon_r = 40.35$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.9, Liquid Temperature (°C) : 21.8

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.35, 8.35, 8.35); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left 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) = 10.1 W/kg

Configuration/1750MHz Head/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:

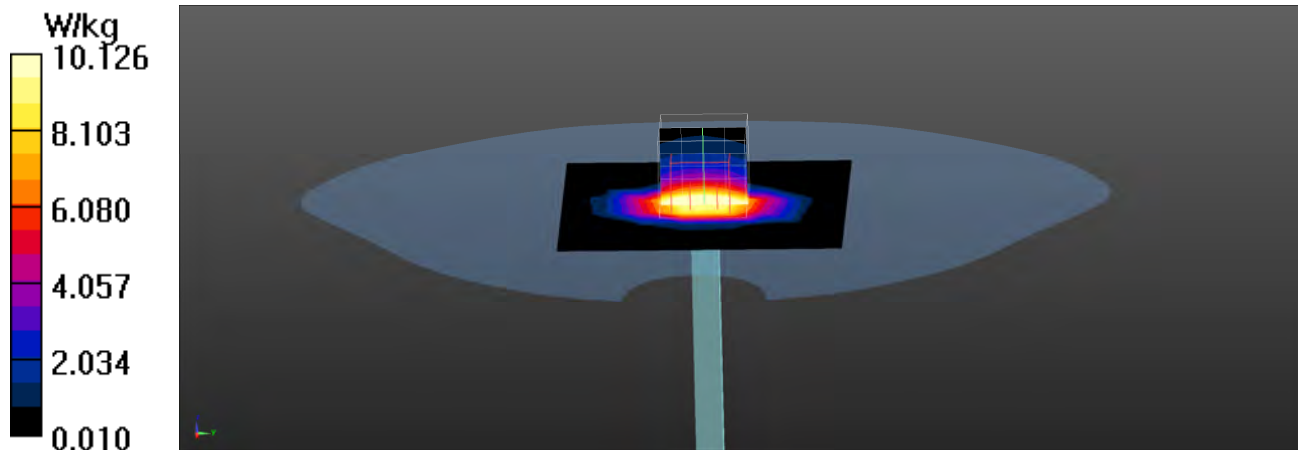
dx=8mm, dy=8mm, dz=5mm

Reference Value = 107.3 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 18.4 W/kg

SAR(1 g) = 9.36 W/kg; SAR(10 g) = 4.85 W/kg

Maximum value of SAR (measured) = 15.0 W/kg



Test Laboratory: DEKRA

Date/Time: 2021/05/19

System Performance Check_1950MHz-Head**DUT: Dipole 1950 MHz; Type: D1950V3**

Communication System: UID 0, CW (0); Frequency: 1950 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 1950 \text{ MHz}$; $\sigma = 1.42 \text{ S/m}$; $\epsilon_r = 40.28$; $\rho = 1000 \text{ kg/m}^3$

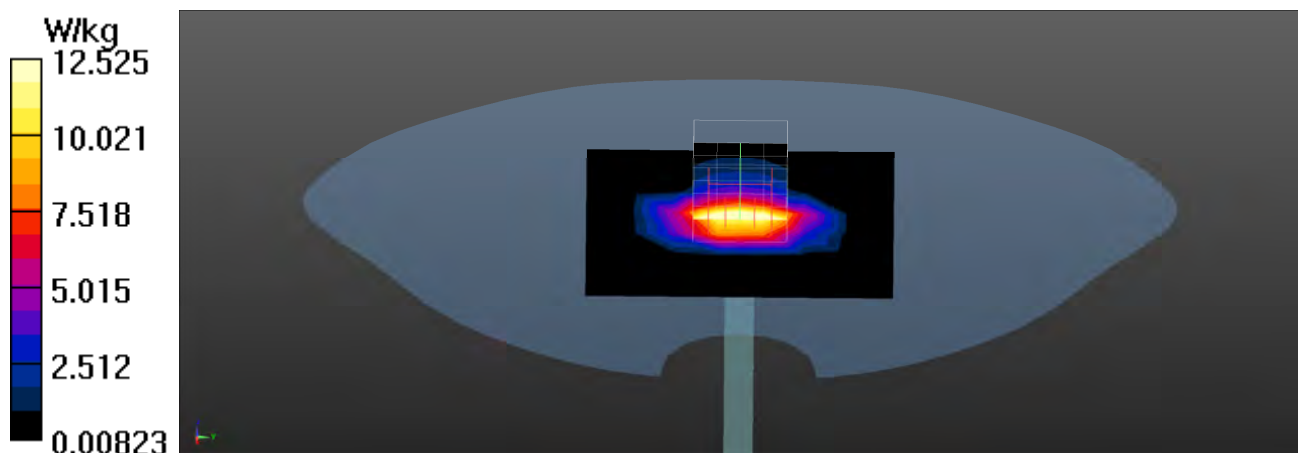
Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 23.1, Liquid Temperature ($^{\circ}\text{C}$) : 21.9

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.13, 8.13, 8.13); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left 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: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 12.5 W/kg **Configuration/1950MHz Head/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 112.4 V/m ; Power Drift = 0.05 dBPeak SAR (extrapolated) = 19.3 W/kg **SAR(1 g) = 10.1 W/kg ; SAR(10 g) = 5.3 W/kg** Maximum value of SAR (measured) = 17.3 W/kg 

Test Laboratory: DEKRA

Date/Time: 2021/05/27

System Performance Check_1950MHz-Head**DUT: Dipole 1950 MHz; Type: D1950V3**

Communication System: UID 0, CW (0); Frequency: 1950 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 1950 \text{ MHz}$; $\sigma = 1.43 \text{ S/m}$; $\epsilon_r = 40.17$; $\rho = 1000 \text{ kg/m}^3$

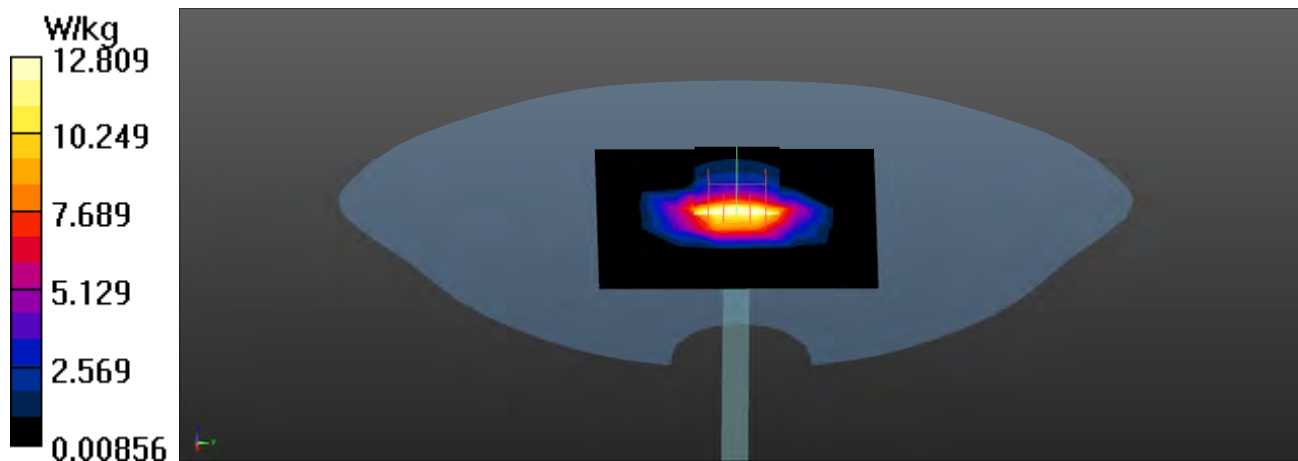
Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 22.9, Liquid Temperature ($^{\circ}\text{C}$) : 21.7

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.13, 8.13, 8.13); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left 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: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 12.8 W/kg **Configuration/1950MHz Head/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 113.4 V/m ; Power Drift = 0.06 dBPeak SAR (extrapolated) = 19.1 W/kg **SAR(1 g) = 9.7 W/kg ; SAR(10 g) = 5.1 W/kg** Maximum value of SAR (measured) = 17.6 W/kg 

Test Laboratory: DEKRA

Date/Time: 2021/06/02

System Performance Check_1950MHz-Head**DUT: Dipole 1950 MHz; Type: D1950V3**

Communication System: UID 0, CW (0); Frequency: 1950 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 1950$ MHz; $\sigma = 1.45$ S/m; $\epsilon_r = 40.33$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 23.4, Liquid Temperature (°C) : 22.1

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.13, 8.13, 8.13); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left 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) = 11.9 W/kg

Configuration/1950MHz Head/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:

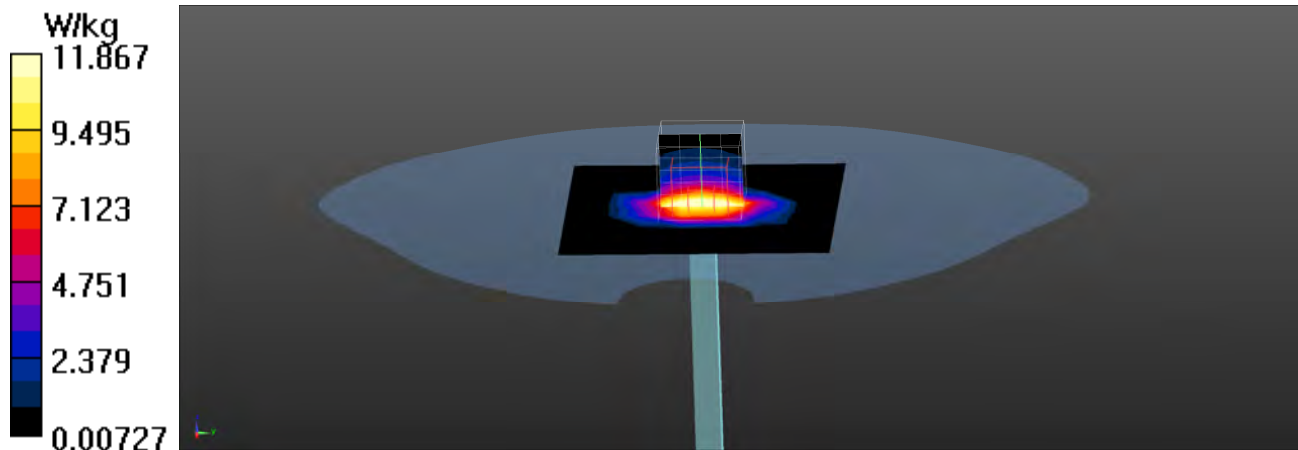
dx=8mm, dy=8mm, dz=5mm

Reference Value = 109.0 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 20.1 W/kg

SAR(1 g) = 9.88 W/kg; SAR(10 g) = 5.04 W/kg

Maximum value of SAR (measured) = 16.4 W/kg



Test Laboratory: DEKRA

Date/Time: 2021/05/13

System Performance Check_2300MHz-Head**DUT: Dipole 2300 MHz; Type: D2300V2**

Communication System: UID 0, CW; Frequency: 2300 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 2300$ MHz; $\sigma = 1.68$ S/m; $\epsilon_r = 39.52$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 23.4, Liquid Temperature (°C) : 22.3

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(7.69, 7.69, 7.69); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/2300MHz_Head/Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 21.0 W/kg

Configuration/2300MHz_Head/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

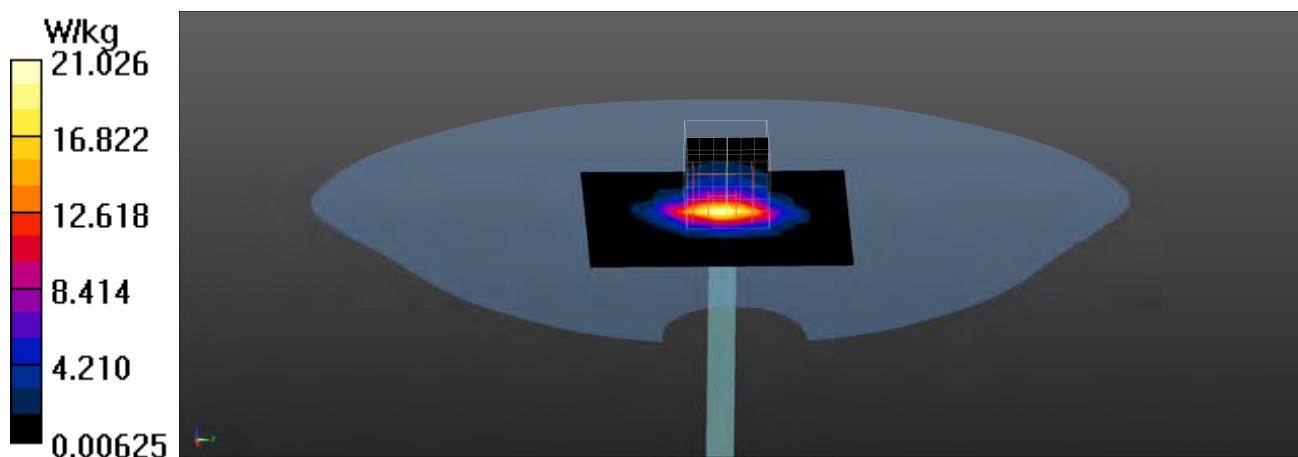
dx=5mm, dy=5mm, dz=5mm

Reference Value = 111.7 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 24.6 W/kg

SAR(1 g) = 12.6 W/kg; SAR(10 g) = 5.95 W/kg

Maximum value of SAR (measured) = 21.1 W/kg



Test Laboratory: DEKRA

Date/Time: 2021/06/03

System Performance Check_2300MHz-Head**DUT: Dipole 2300 MHz; Type: D2300V2**

Communication System: UID 0, CW; Frequency: 2300 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 2300 \text{ MHz}$; $\sigma = 1.67 \text{ S/m}$; $\epsilon_r = 39.63$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature ($^{\circ}\text{C}$) : 22.5, Liquid Temperature ($^{\circ}\text{C}$) : 21.7

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(7.69, 7.69, 7.69); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/2300MHz_Head/Area Scan (8x9x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

Maximum value of SAR (measured) = 19.6 W/kg

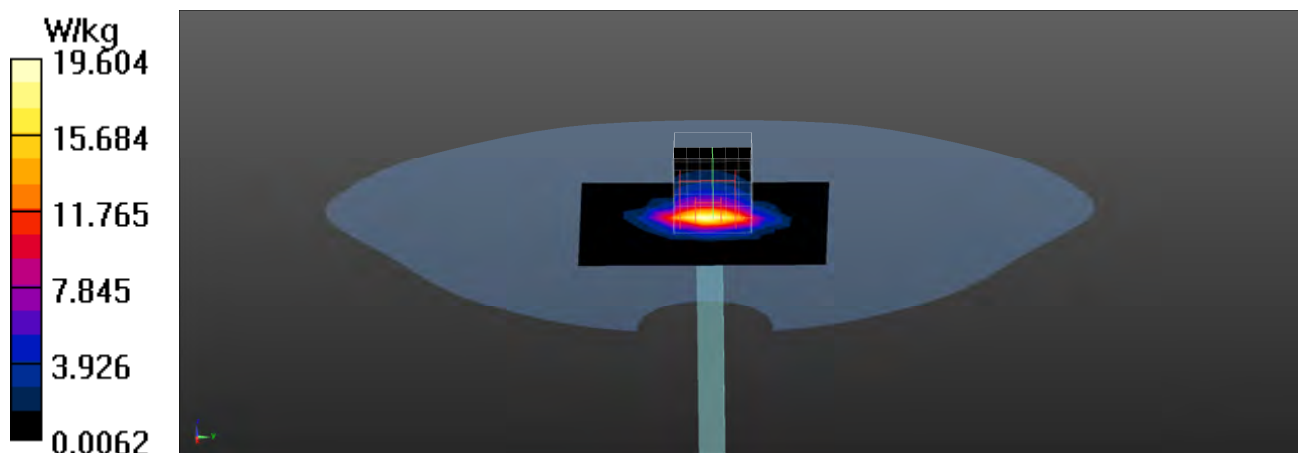
Configuration/2300MHz_Head/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 108.6 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 24.9 W/kg

SAR(1 g) = 11.8 W/kg; SAR(10 g) = 5.57 W/kg

Maximum value of SAR (measured) = 19.7 W/kg



Test Laboratory: DEKRA

Date/Time: 2021/05/25

System Performance Check_2450MHz-Head**DUT: Dipole 2450 MHz; Type: D2450V2**

Communication System: UID 10000, CW; Frequency: 2450 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.82$ S/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.9, Liquid Temperature (°C) : 21.8

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(7.48, 7.48, 7.48); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left 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) = 20.0 W/kg

Configuration/2450MHz_Head/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

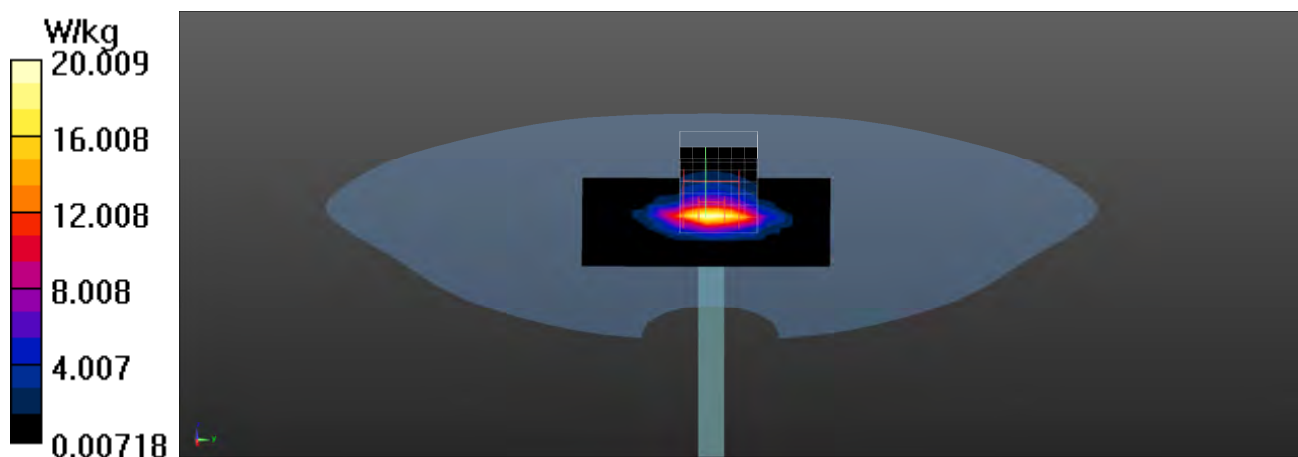
dx=5mm, dy=5mm, dz=5mm

Reference Value = 103.0 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 26.2 W/kg

SAR(1 g) = 12.9 W/kg; SAR(10 g) = 6.01 W/kg

Maximum value of SAR (measured) = 20.5 W/kg



Test Laboratory: DEKRA

Date/Time: 2021/06/05

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; $\sigma = 4.76$ S/m; $\epsilon_r = 36.15$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 23.7, Liquid Temperature (°C) : 22.5

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.85, 4.85, 4.85); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left 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) = 12.4 W/kg

Configuration/5250MHz-Head/Zoom Scan (7x7x12), dist=1.4mm (7x7x12)/Cube 0:

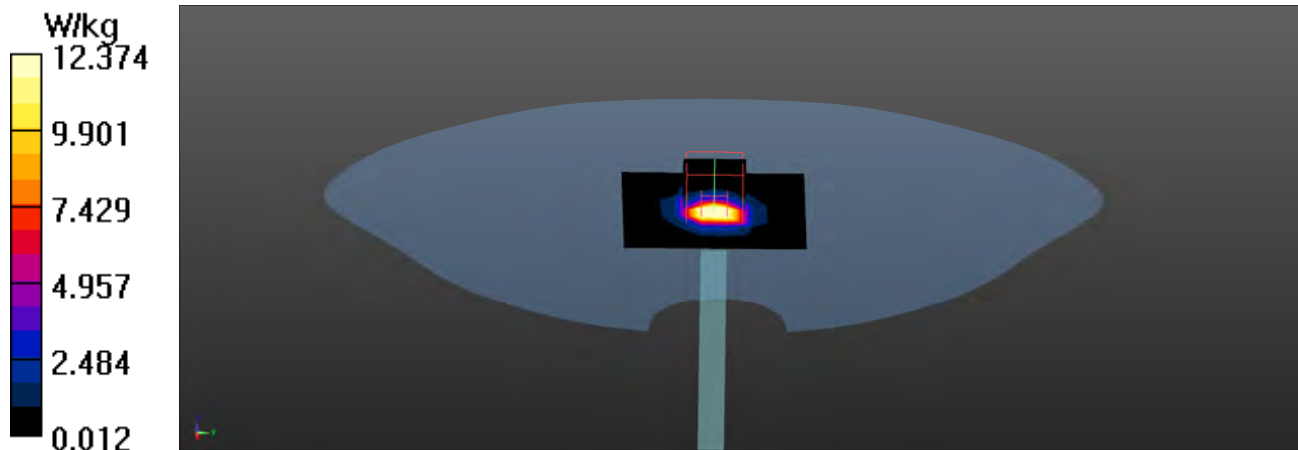
Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 76.97 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 30.2 W/kg

SAR(1 g) = 8.26 W/kg; SAR(10 g) = 2.31 W/kg

Maximum value of SAR (measured) = 22.1 W/kg



Test Laboratory: DEKRA

Date/Time: 2021/06/05

System Performance Check_5600MHz-Head**DUT: Dipole 5GHz; Type: D5GHzV2**

Communication System: UID 0, CW (0); Frequency: 5600 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5600$ MHz; $\sigma = 5.14$ S/m; $\epsilon_r = 35.18$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 23.7, Liquid Temperature (°C) : 22.5

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.5, 4.5, 4.5); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left 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) = 15.0 W/kg

Configuration/5600MHz-Head/Zoom Scan (7x7x12), dist=1.4mm (7x7x12)/Cube 0:

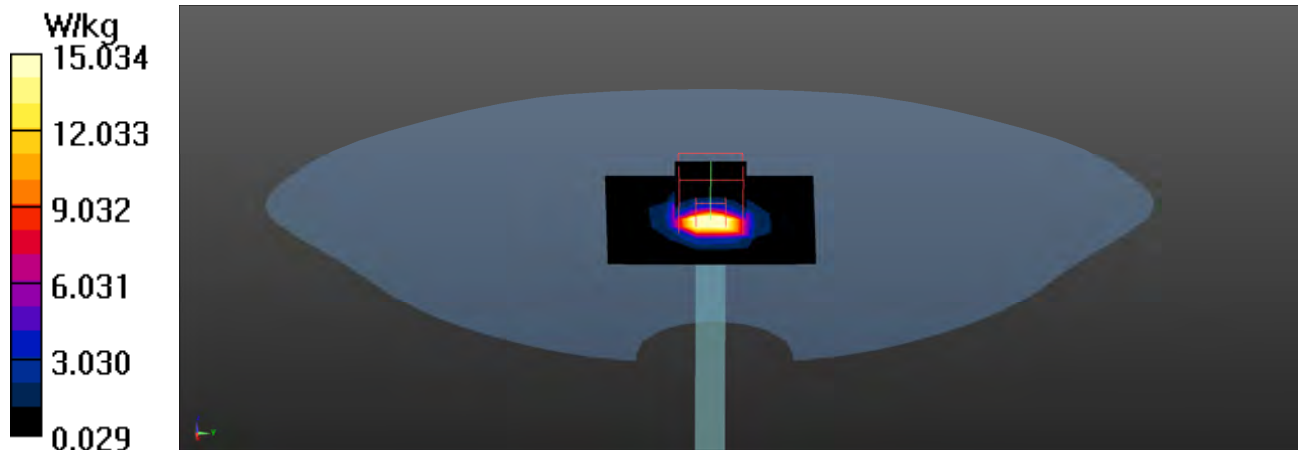
Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 80.37 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 34.1 W/kg

SAR(1 g) = 8.6 W/kg; SAR(10 g) = 2.49 W/kg

Maximum value of SAR (measured) = 26.4 W/kg



Test Laboratory: DEKRA

Date/Time: 2021/06/05

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; $\sigma = 5.5$ S/m; $\epsilon_r = 34.63$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 23.7, Liquid Temperature (°C) : 22.5

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.47, 4.47, 4.47); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left 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) = 14.3 W/kg

Configuration/5800MHz-Head/Zoom Scan (7x7x12), dist=1.4mm (7x7x12)/Cube 0:

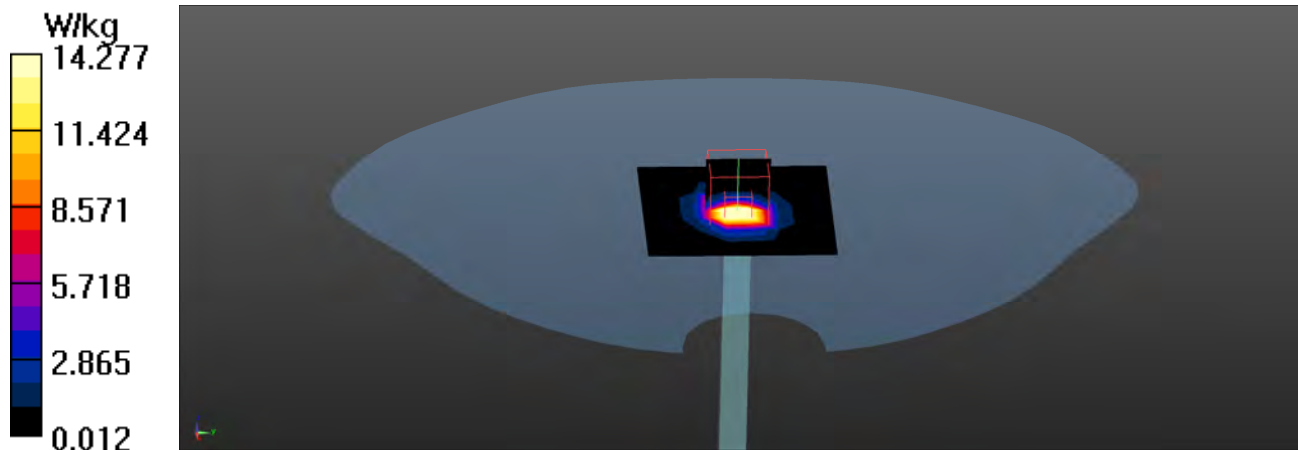
Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 76.19 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 33.2 W/kg

SAR(1 g) = 8.29 W/kg; SAR(10 g) = 2.26 W/kg

Maximum value of SAR (measured) = 24.9 W/kg



Appendix B. SAR measurement Data

Test Laboratory: DEKRA

Date/Time: 2021/05/25

181_802.11b_Right-Cheek_11_ANT 6 0mm

DUT: WCDMA/LTE/5G Mobile Phone; Type: EA211001

Communication System: UID 0, WLAN 2.4G; Frequency: 2462 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.83$ S/m; $\epsilon_r = 39.75$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature (°C) : 22.9, Liquid Temperature (°C) : 21.8

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(7.48, 7.48, 7.48); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/Body/Area Scan (8x18x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.474 W/kg

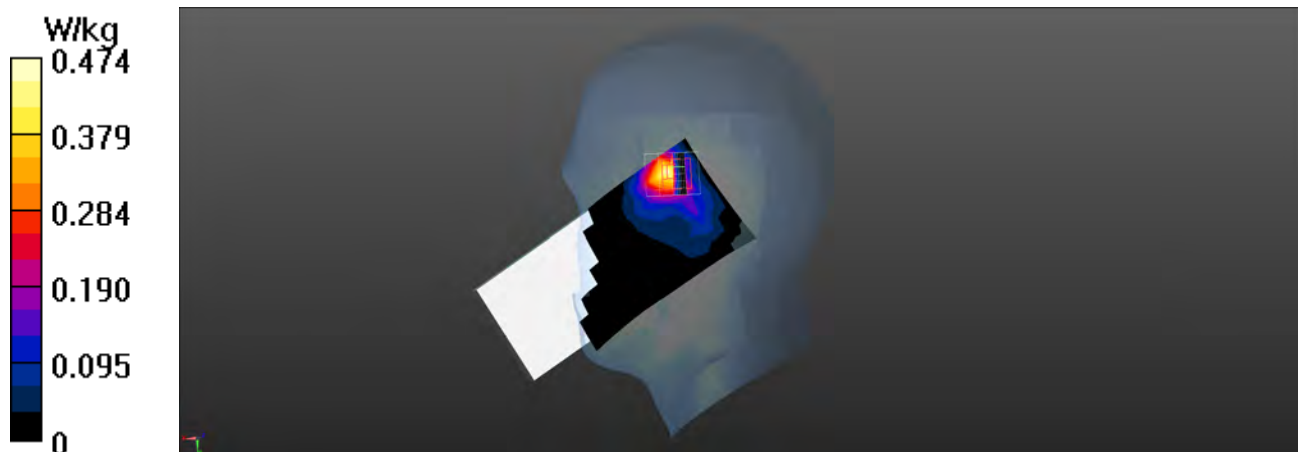
Configuration/Body/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.409 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.679 W/kg

SAR(1 g) = 0.316 W/kg; SAR(10 g) = 0.153 W/kg

Maximum value of SAR (measured) = 0.532 W/kg



Test Laboratory: DEKRA

Date/Time: 2021/05/25

233_BT-1M_Right-Cheek_78_ANT 6 0mm

DUT: WCDMA/LTE/5G Mobile Phone; Type: EA211001

Communication System: UID 0, BT 1M&3M&BLE; Frequency: 2480 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 2480$ MHz; $\sigma = 1.85$ S/m; $\epsilon_r = 39.68$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature (°C) : 22.9, Liquid Temperature (°C) : 21.8

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(7.48, 7.48, 7.48); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/Body/Area Scan (8x18x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.192 W/kg

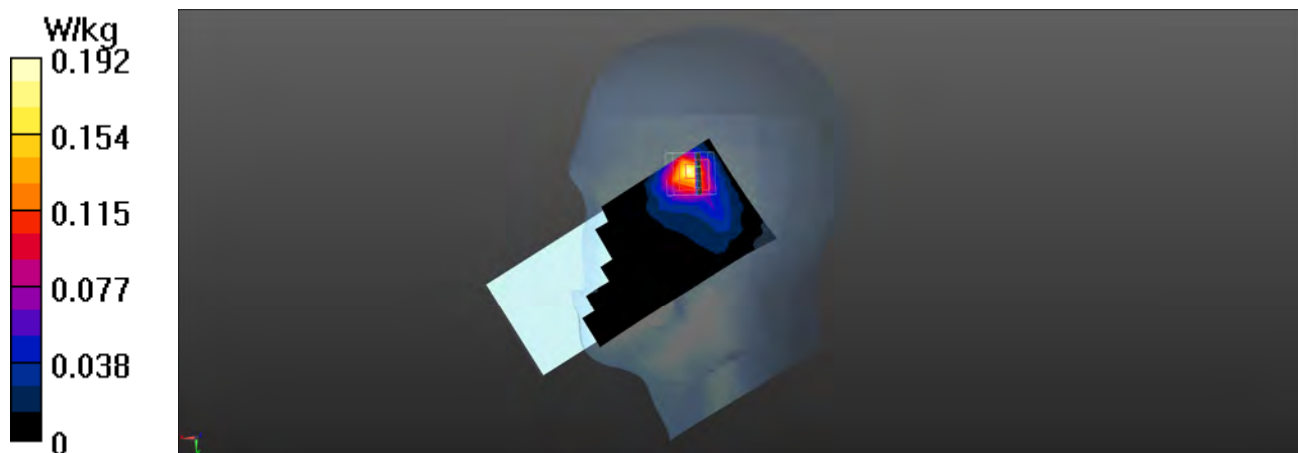
Configuration/Body/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.810 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.286 W/kg

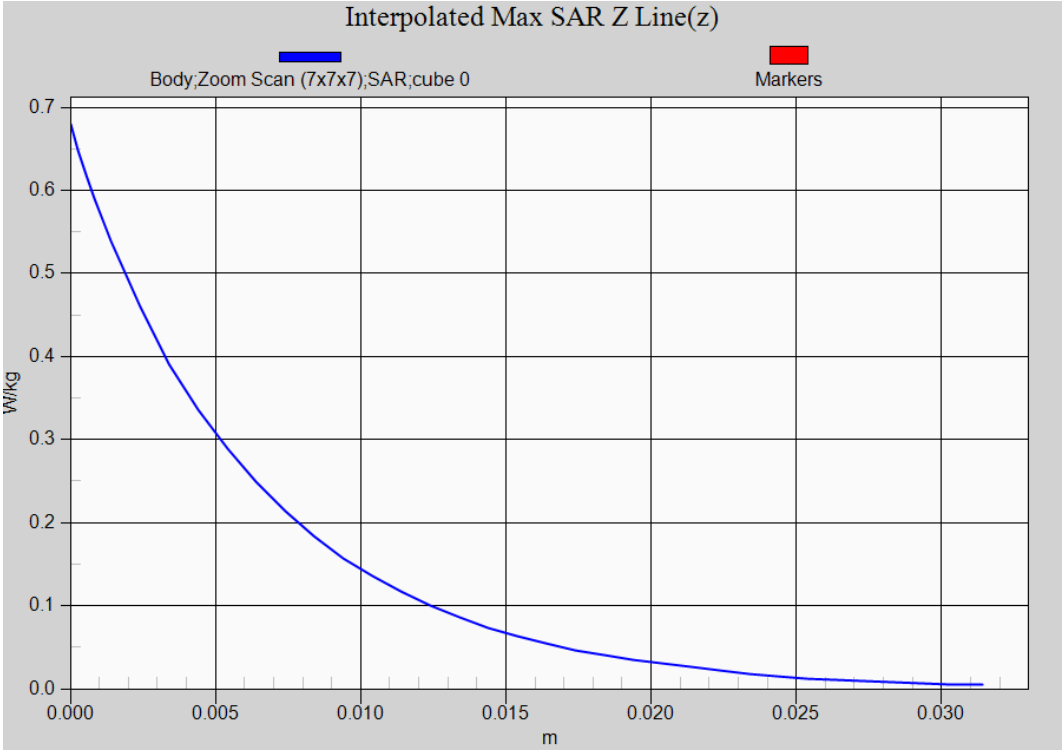
SAR(1 g) = 0.126 W/kg; SAR(10 g) = 0.059 W/kg

Maximum value of SAR (measured) = 0.215 W/kg



802.11b EUT Right-Cheek (Head-ANT 6 0mm) Z-Axis plot

Channel: 11



Test Laboratory: DEKRA

Date/Time: 2021/05/25

142_802.11b_1_Top_Ant 6 10mm**DUT: WCDMA/LTE/5G Mobile Phone; Type: EA211001**

Communication System: UID 0, WLAN 2.4G; Frequency: 2412 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.77$ S/m; $\epsilon_r = 39.94$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.9, Liquid Temperature (°C) : 21.8

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(7.48, 7.48, 7.48); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/Body/Area Scan (6x9x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.415 W/kg

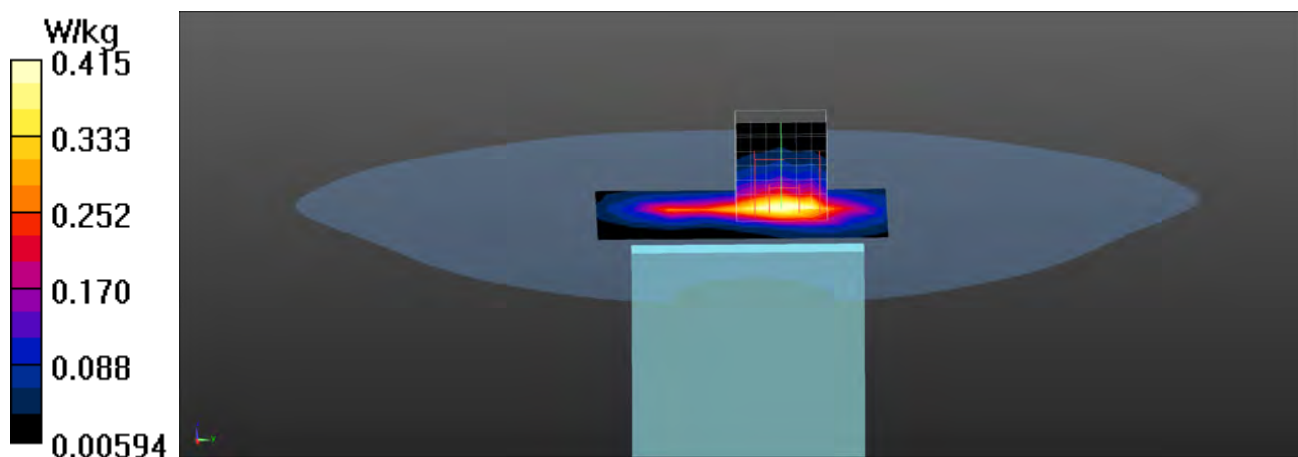
Configuration/Body/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.55 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.590 W/kg

SAR(1 g) = 0.284 W/kg; SAR(10 g) = 0.147 W/kg

Maximum value of SAR (measured) = 0.468 W/kg



Test Laboratory: DEKRA

Date/Time: 2021/05/25

241_BT1M_78_Top_Ant 6 10mm**DUT: WCDMA/LTE/5G Mobile Phone; Type: EA211001**

Communication System: UID 0, BT 1M&3M&BLE; Frequency: 2480 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 2480$ MHz; $\sigma = 1.85$ S/m; $\epsilon_r = 39.68$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.9, Liquid Temperature (°C) : 21.8

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(7.48, 7.48, 7.48); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/Body/Area Scan (6x9x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.0542 W/kg

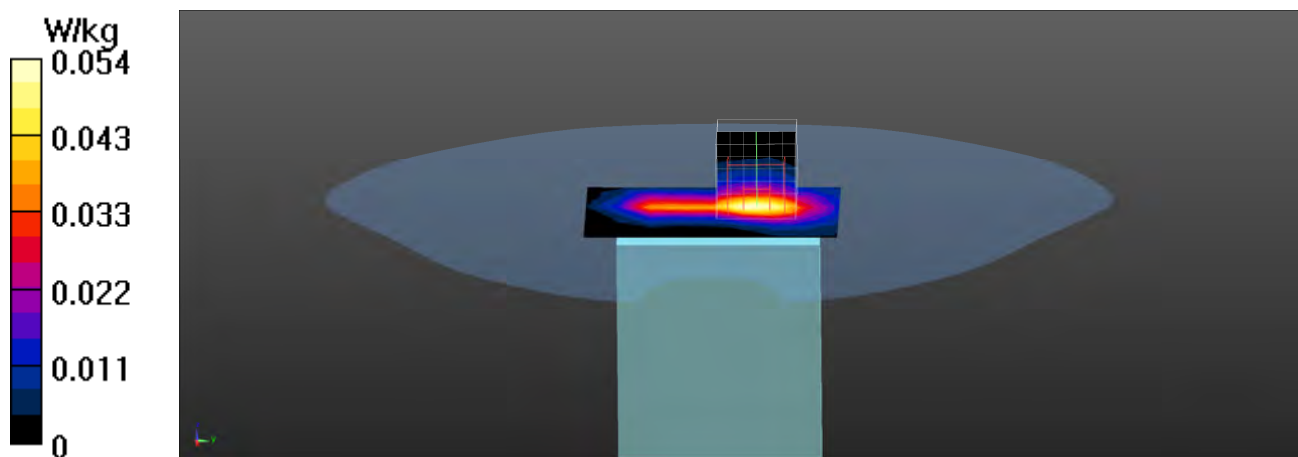
Configuration/Body/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.686 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.0700 W/kg

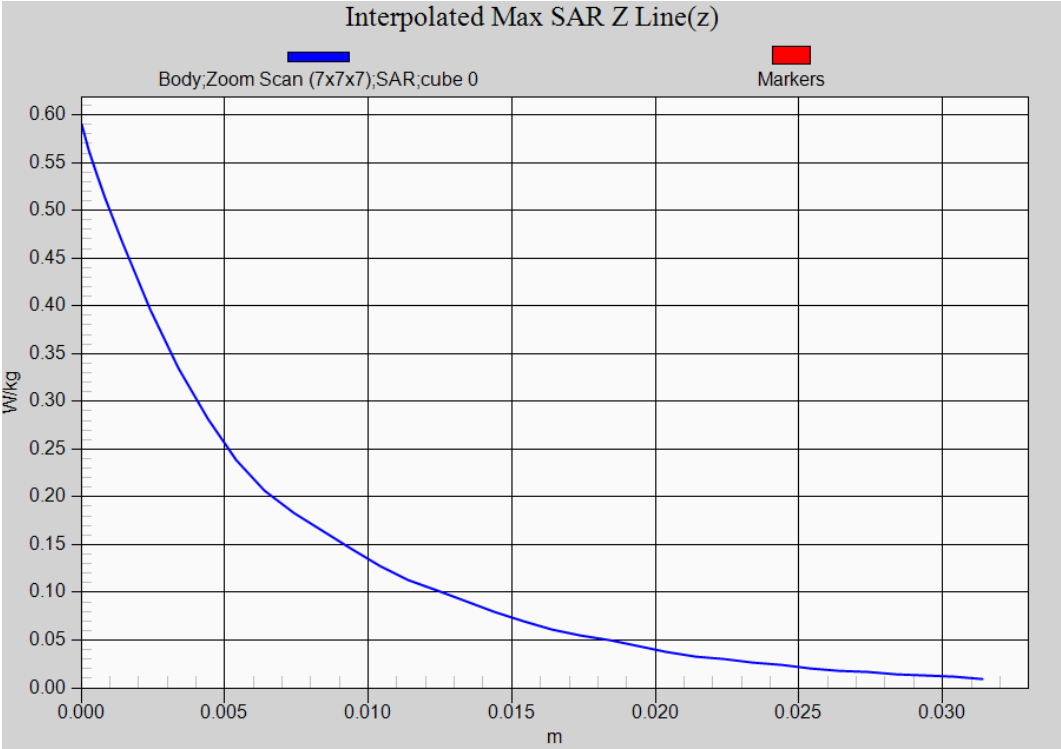
SAR(1 g) = 0.034 W/kg; SAR(10 g) = 0.017 W/kg

Maximum value of SAR (measured) = 0.0562 W/kg



802.11b EUT Top (Hotspot & Body-worn-Ant 6 10mm) Z-Axis plot

Channel: 1



Test Laboratory: DEKRA

Date/Time: 2021/06/05

182_802.11ac-80M_Right-Cheek_58_ANT 5 0mm**DUT: WCDMA/LTE/5G Mobile Phone; Type: EA211001**

Communication System: UID 0, WLAN 5G; Frequency: 5290 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5290$ MHz; $\sigma = 4.82$ S/m; $\epsilon_r = 36.04$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature (°C) : 23.7, Liquid Temperature (°C) : 22.5

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.85, 4.85, 4.85); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/Body/Area Scan (10x21x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.417 W/kg

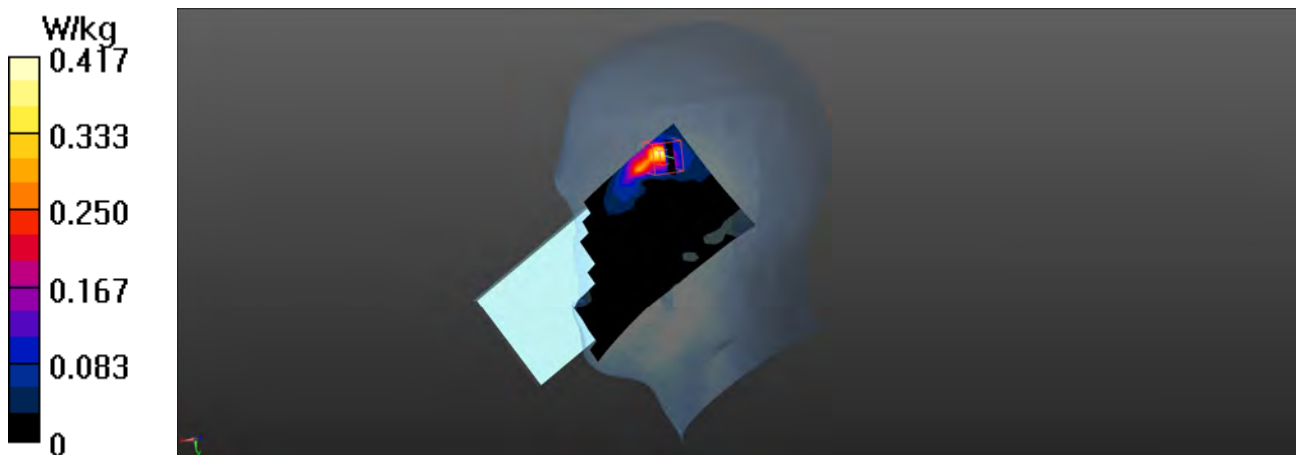
Configuration/Body/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.221 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.639 W/kg

SAR(1 g) = 0.158 W/kg; SAR(10 g) = 0.046 W/kg

Maximum value of SAR (measured) = 0.393 W/kg



Test Laboratory: DEKRA

Date/Time: 2021/06/05

341_802.11ac-80M_Right-Tilt_106_ANT 5 0mm**DUT: WCDMA/LTE/5G Mobile Phone; Type: EA211001**

Communication System: UID 0, WLAN 5G; Frequency: 5530 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5530$ MHz; $\sigma = 5.09$ S/m; $\epsilon_r = 35.37$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature (°C) : 23.7, Liquid Temperature (°C) : 22.5

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.5, 4.5, 4.5); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/Body/Area Scan (10x21x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.484 W/kg

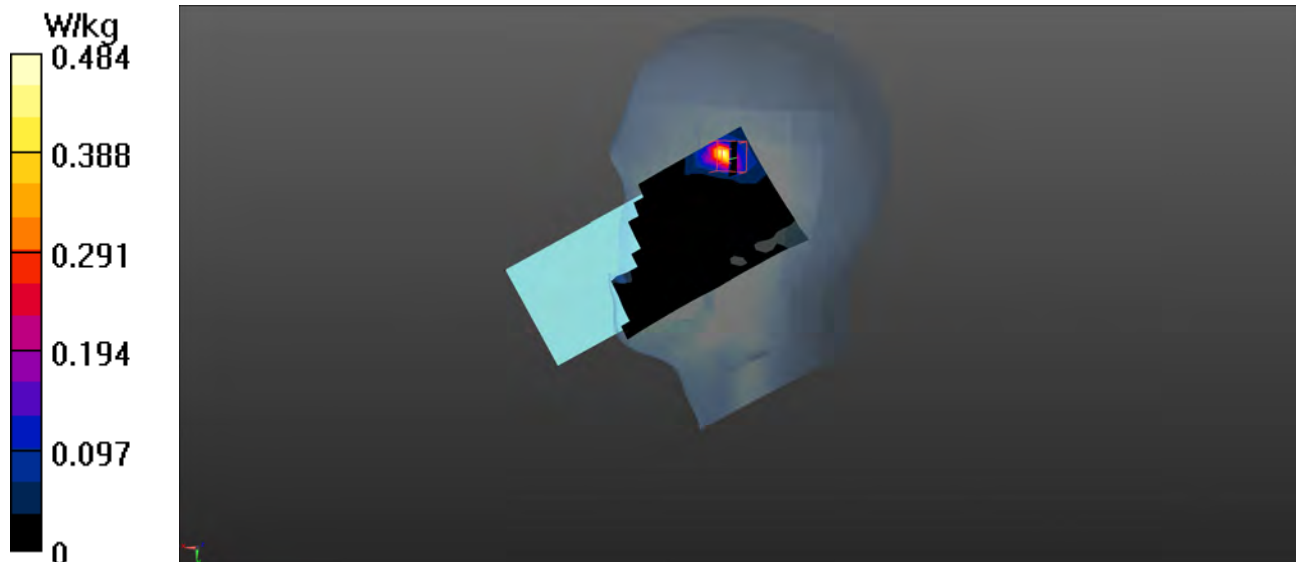
Configuration/Body/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0.9690 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.931 W/kg

SAR(1 g) = 0.194 W/kg; SAR(10 g) = 0.050 W/kg

Maximum value of SAR (measured) = 0.521 W/kg



Test Laboratory: DEKRA

Date/Time: 2021/06/05

184-2_802.11ac-80M_Right-Tilt_155_ANT 5 0mm

DUT: WCDMA/LTE/5G Mobile Phone; Type: EA211001

Communication System: UID 0, WLAN 5G; Frequency: 5775 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5775$ MHz; $\sigma = 5.46$ S/m; $\epsilon_r = 34.7$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature (°C) : 23.7, Liquid Temperature (°C) : 22.5

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.47, 4.47, 4.47); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/Body/Area Scan (10x21x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.313 W/kg

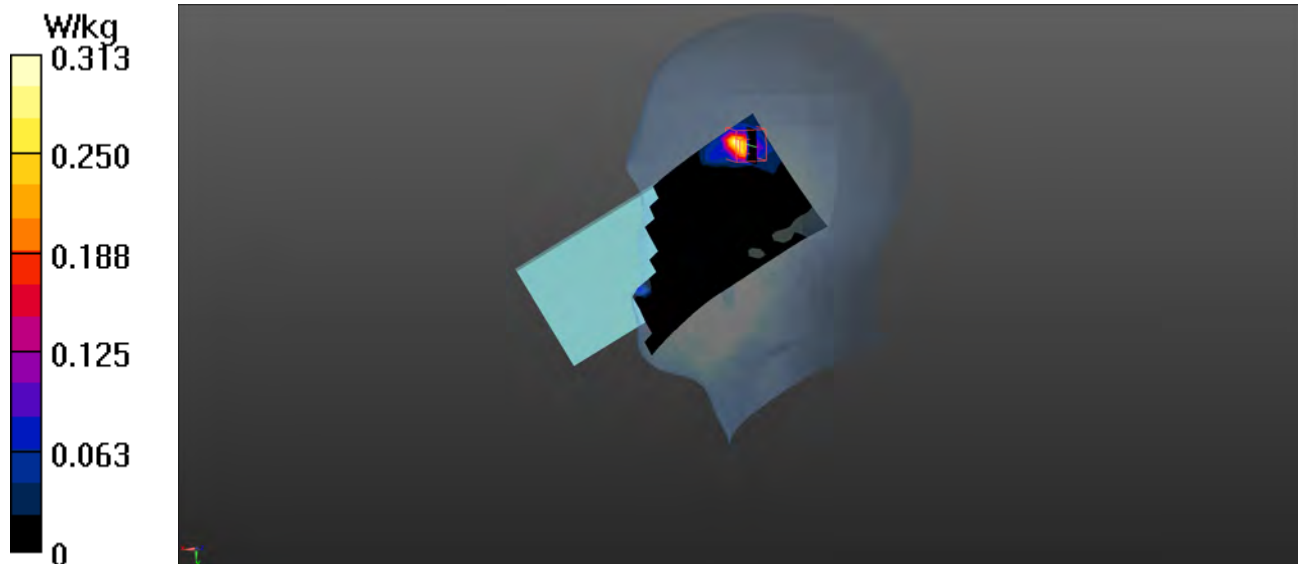
Configuration/Body/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.636 W/kg

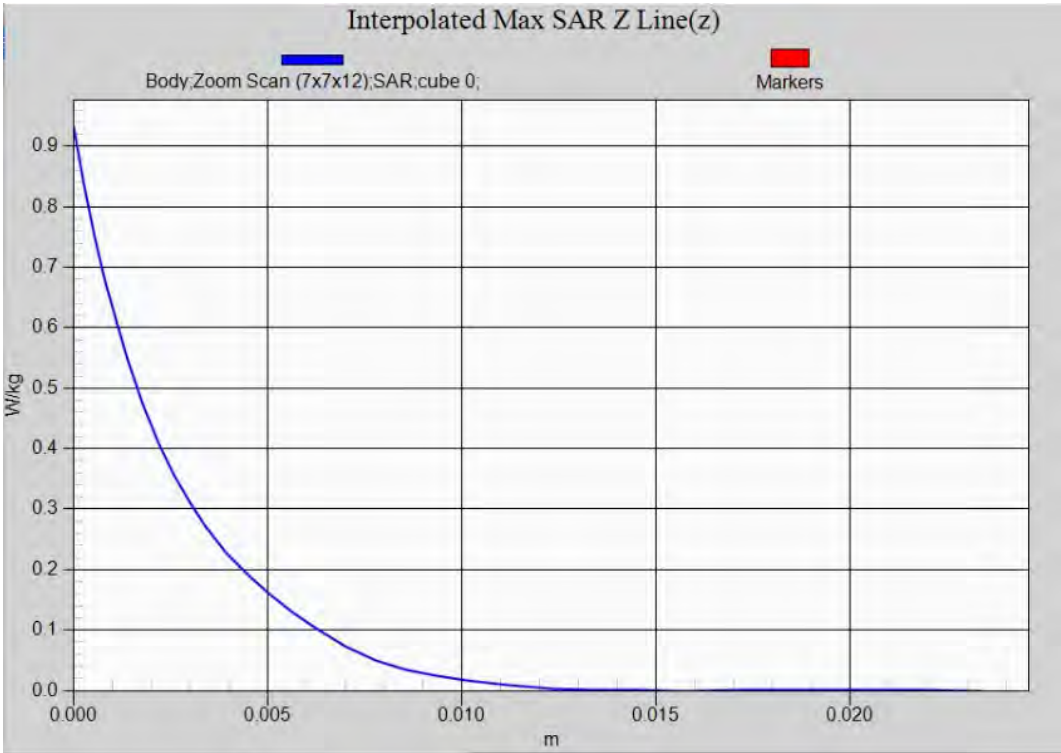
SAR(1 g) = 0.134 W/kg; SAR(10 g) = 0.034 W/kg

Maximum value of SAR (measured) = 0.362 W/kg



802.11ac EUT Right-Tilt (Head-ANT 5 0mm), Z-Axis plot

Channel: 106



Test Laboratory: DEKRA

Date/Time: 2021/06/05

39-2_802.11ac-80M_42-Back_ANT 5 10mm**DUT: WCDMA/LTE/5G Mobile Phone; Type: EA211001**

Communication System: UID 0, WLAN 5G; Frequency: 5210 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5210$ MHz; $\sigma = 4.71$ S/m; $\epsilon_r = 36.26$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 23.7, Liquid Temperature (°C) : 22.5

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.85, 4.85, 4.85); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/Body/Area Scan (10x8x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.264 W/kg

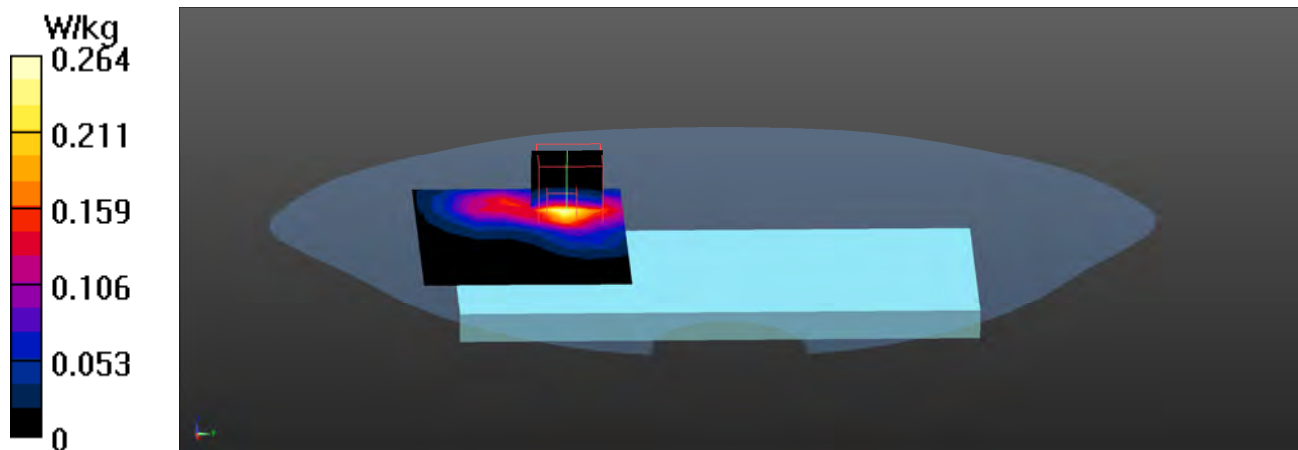
Configuration/Body/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.242 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.448 W/kg

SAR(1 g) = 0.116 W/kg; SAR(10 g) = 0.042 W/kg

Maximum value of SAR (measured) = 0.261 W/kg



Test Laboratory: DEKRA

Date/Time: 2021/06/05

147-2_802.11ac-80M_58-Back_ANT 5 10mm**DUT: WCDMA/LTE/5G Mobile Phone; Type: EA211001**

Communication System: UID 0, WLAN 5G; Frequency: 5290 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5290$ MHz; $\sigma = 4.82$ S/m; $\epsilon_r = 36.04$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 23.7, Liquid Temperature (°C) : 22.5

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.85, 4.85, 4.85); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/Body/Area Scan (11x8x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.396 W/kg

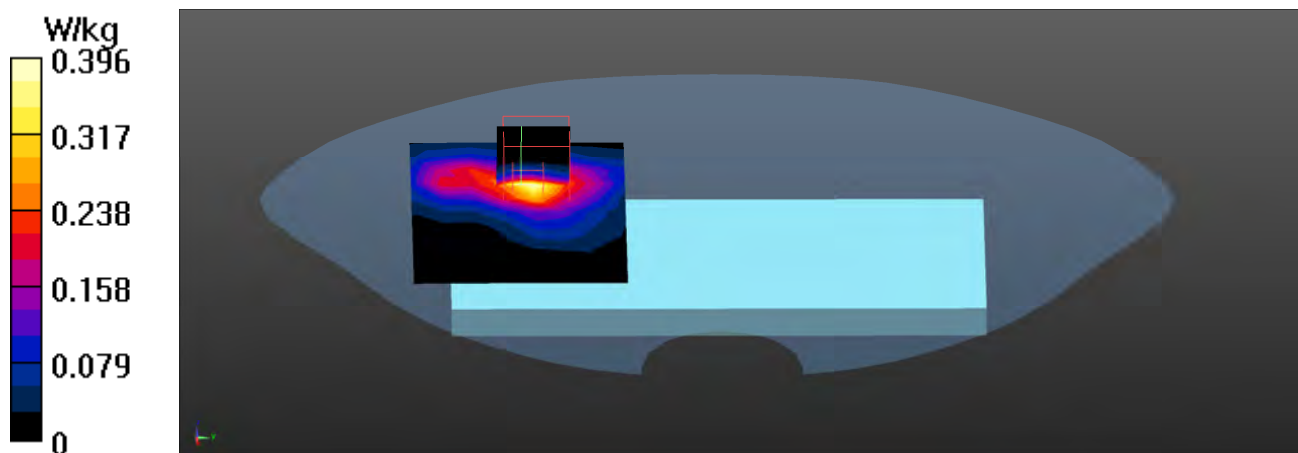
Configuration/Body/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.787 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.685 W/kg

SAR(1 g) = 0.180 W/kg; SAR(10 g) = 0.065 W/kg

Maximum value of SAR (measured) = 0.409 W/kg



Test Laboratory: DEKRA

Date/Time: 2021/06/05

150-2_802.11ac-80M_138-Back_ANT 5 10mm**DUT: WCDMA/LTE/5G Mobile Phone; Type: EA211001**

Communication System: UID 0, WLAN 5G; Frequency: 5690 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5690$ MHz; $\sigma = 5.27$ S/m; $\epsilon_r = 34.94$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 23.7, Liquid Temperature (°C) : 22.5

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.5, 4.5, 4.5); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/Body/Area Scan (11x8x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.496 W/kg

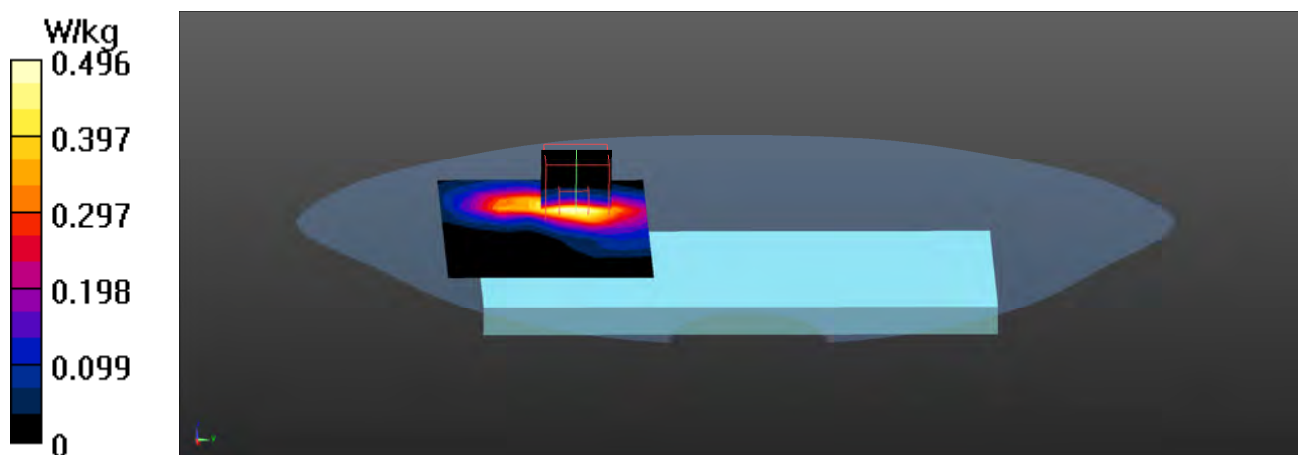
Configuration/Body/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.963 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.984 W/kg

SAR(1 g) = 0.229 W/kg; SAR(10 g) = 0.084 W/kg

Maximum value of SAR (measured) = 0.556 W/kg



Test Laboratory: DEKRA

Date/Time: 2021/06/05

146-2_802.11ac-80M_155-Back_ANT 5 10mm**DUT: WCDMA/LTE/5G Mobile Phone; Type: EA211001**

Communication System: UID 0, WLAN 5G; Frequency: 5775 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5775$ MHz; $\sigma = 5.46$ S/m; $\epsilon_r = 34.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 23.7, Liquid Temperature (°C) : 22.5

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.47, 4.47, 4.47); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/Body/Area Scan (10x8x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.439 W/kg

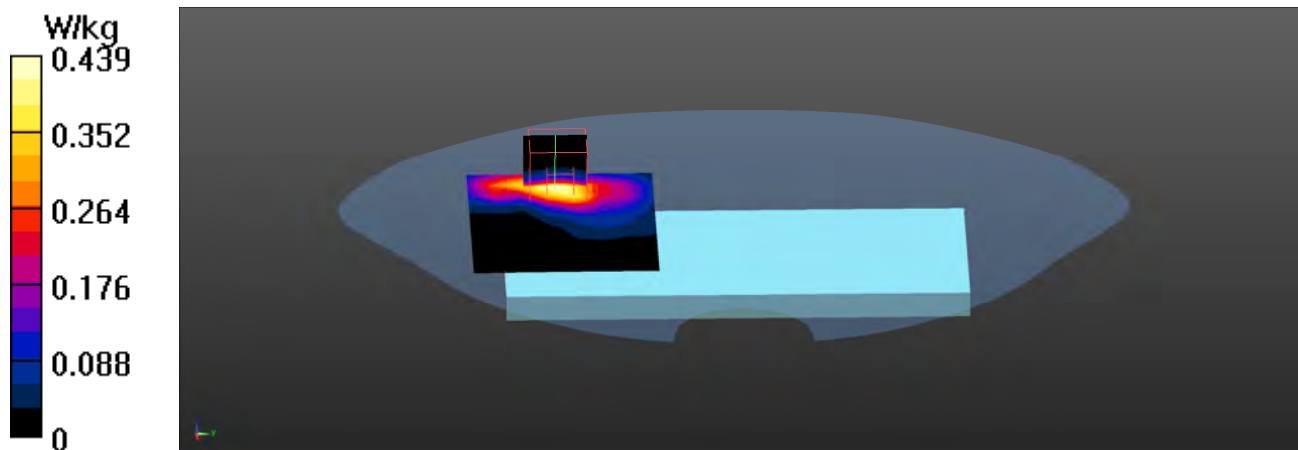
Configuration/Body/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.480 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.945 W/kg

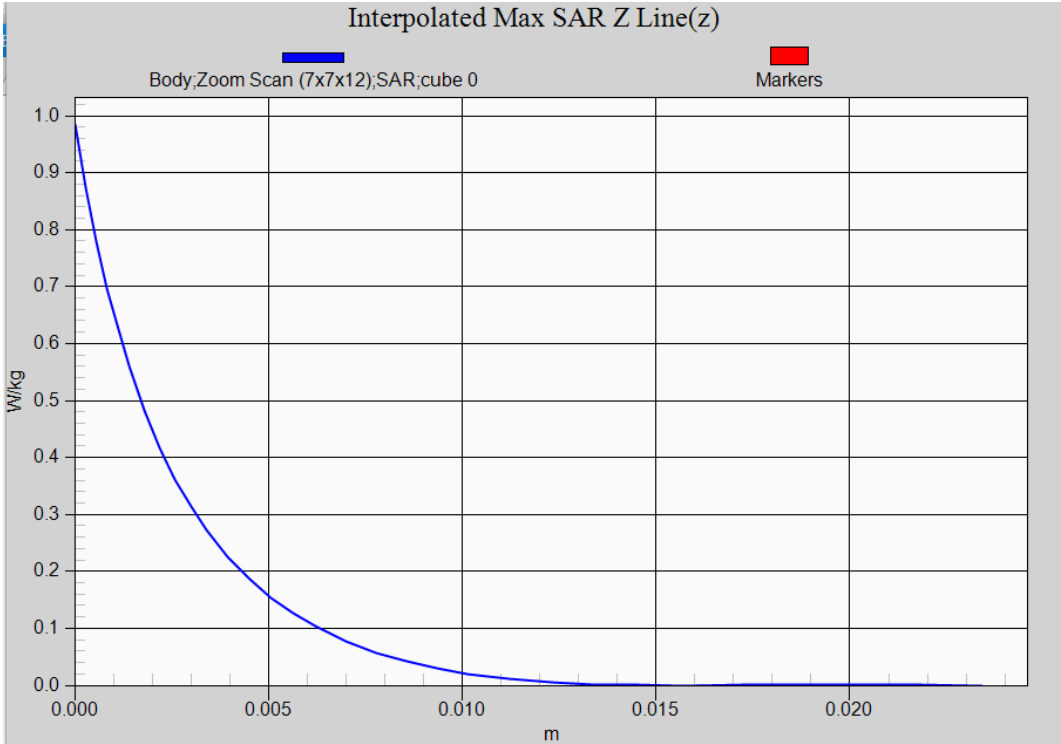
SAR(1 g) = 0.213 W/kg; SAR(10 g) = 0.074 W/kg

Maximum value of SAR (measured) = 0.529 W/kg



802.11ac EUT Back (Hotspot & Body-worn-ANT 5 10mm), Z-Axis plot

Channel: 138



Test Laboratory: DEKRA

Date/Time: 2021/06/05

164-2_802.11ac-80M_58-Left-side_ANT 5 0mm**DUT: WCDMA/LTE/5G Mobile Phone; Type: EA211001**

Communication System: UID 0, WLAN 5G; Frequency: 5290 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5290$ MHz; $\sigma = 4.82$ S/m; $\epsilon_r = 36.04$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 23.7, Liquid Temperature (°C) : 22.5

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.85, 4.85, 4.85); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/Body/Area Scan (6x16x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 3.29 W/kg

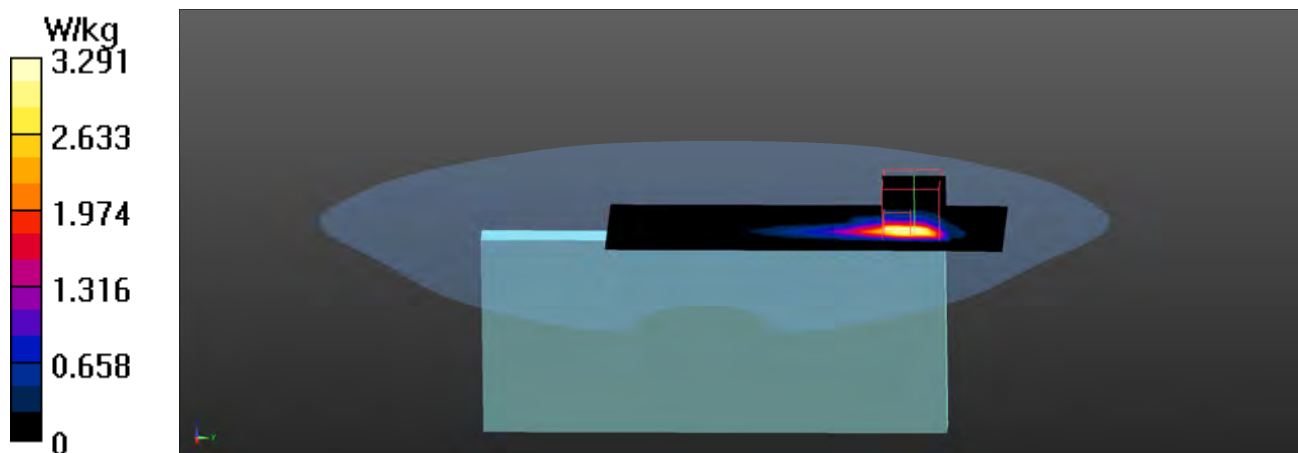
Configuration/Body/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.713 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 8.56 W/kg

SAR(1 g) = 1.47 W/kg; SAR(10 g) = 0.363 W/kg

Maximum value of SAR (measured) = 4.31 W/kg



Test Laboratory: DEKRA

Date/Time: 2021/06/05

41-2_802.11ac-80M_122-Left-Side_ANT 5 0mm**DUT: WCDMA/LTE/5G Mobile Phone; Type: EA211001**

Communication System: UID 0, WLAN 5G; Frequency: 5610 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 5610$ MHz; $\sigma = 5.15$ S/m; $\epsilon_r = 35.16$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 23.7, Liquid Temperature (°C) : 22.5

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.5, 4.5, 4.5); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/Body/Area Scan (6x10x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 4.57 W/kg

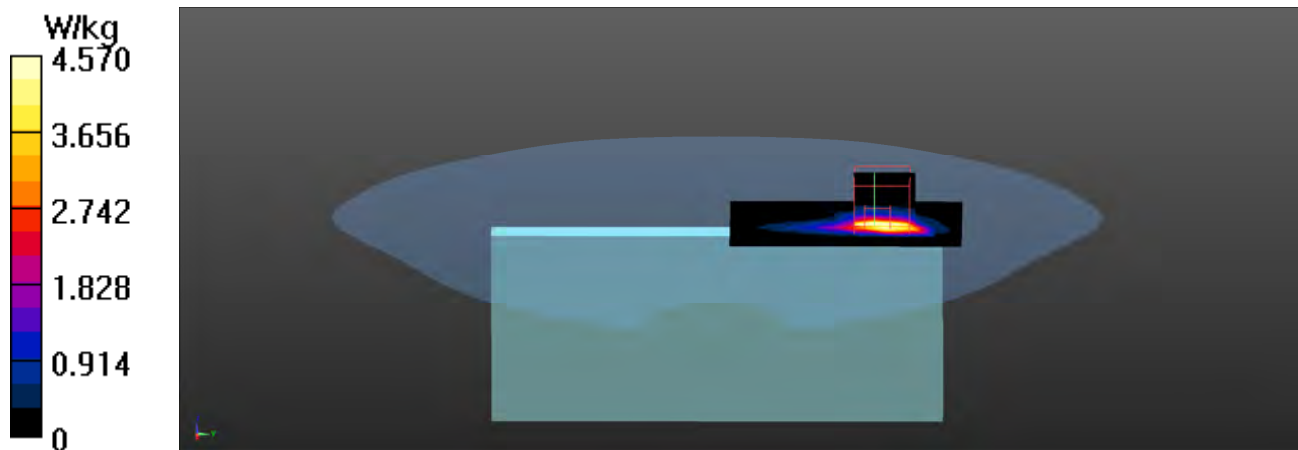
Configuration/Body/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.717 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 13.1 W/kg

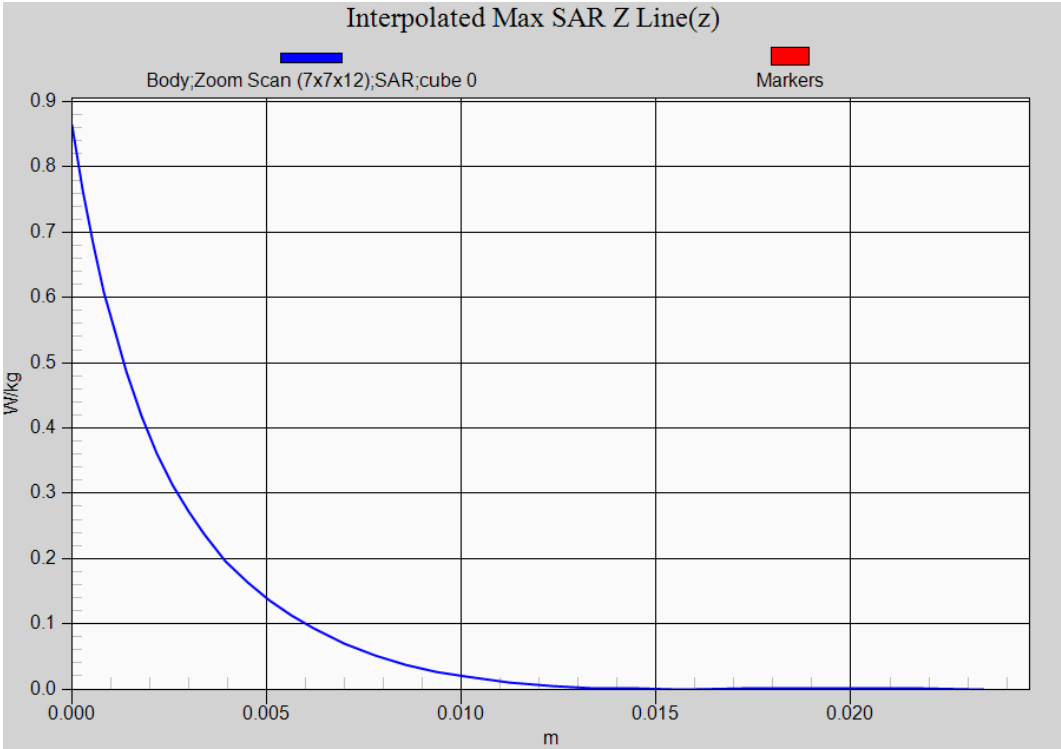
SAR(1 g) = 2.14 W/kg; SAR(10 g) = 0.563 W/kg

Maximum value of SAR (measured) = 6.61 W/kg



802.11ac EUT Left-Side (Product Specific SAR-ANT 5 0mm), Z-Axis plot

Channel: 122



Test Laboratory: DEKRA

Date/Time: 2021/05/19

50_WCDMA_BAND 2_RMC_Left-Cheek_9400_ANT 0 0mm**DUT: WCDMA/LTE/5G Mobile Phone; Type: EA211001**

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; $\epsilon_r = 40.85$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature (°C) : 23.1, Liquid Temperature (°C) : 21.9

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.13, 8.13, 8.13); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/Body/Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.175 W/kg

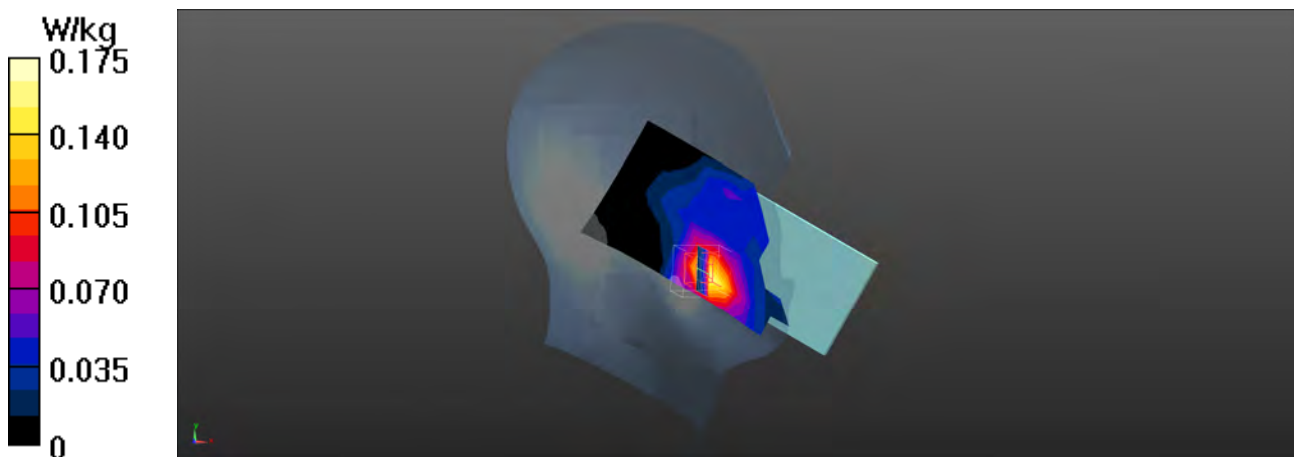
Configuration/Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.917 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.192 W/kg

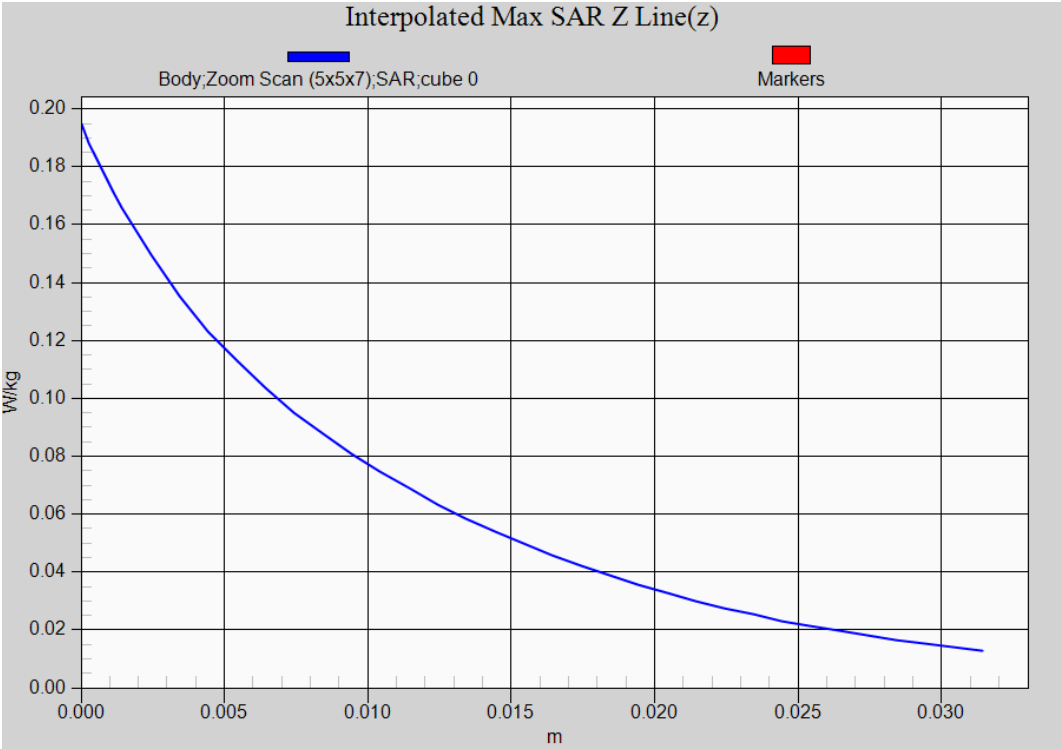
SAR(1 g) = 0.117 W/kg; SAR(10 g) = 0.071 W/kg

Maximum value of SAR (measured) = 0.157 W/kg



WCDMA Band 2 RMC EUT Left-Cheek (Head-ANT 0 0mm) Z-Axis plot

Channel: 9538



Test Laboratory: DEKRA

Date/Time: 2021/06/02

283_WCDMA_BAND 2_RMC_9400_Front_ANT 0 10mm**DUT: WCDMA/LTE/5G Mobile Phone; Type: EA211001**

Communication System: UID 0, FCC WCDMA_Band-2; Frequency: 1880 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ S/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 23.4, Liquid Temperature (°C) : 22.1

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.13, 8.13, 8.13); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/Body/Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.297 W/kg

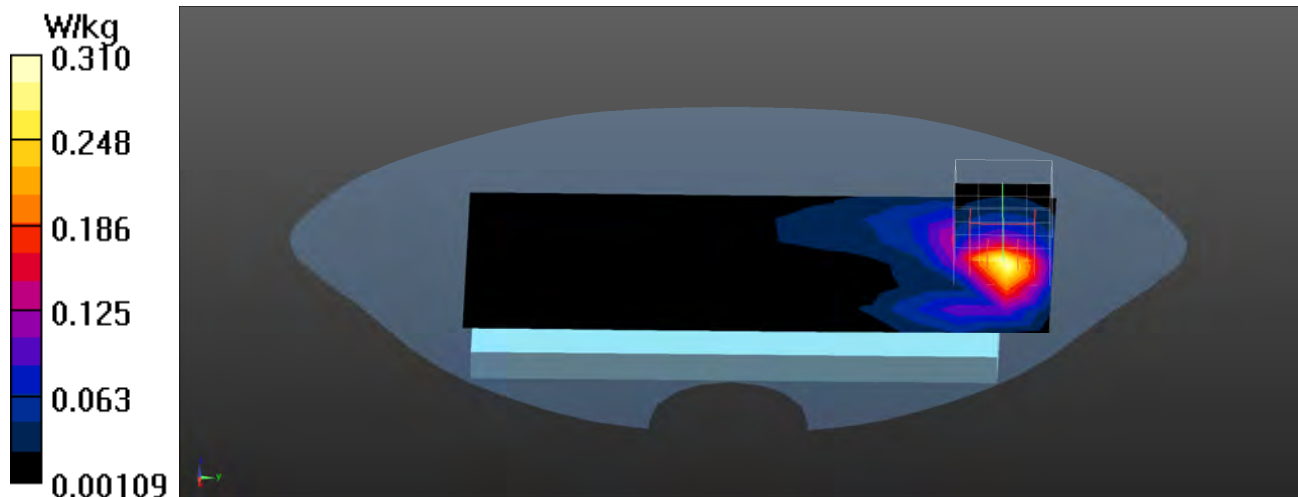
Configuration/Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.201 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.365 W/kg

SAR(1 g) = 0.205 W/kg; SAR(10 g) = 0.112 W/kg

Maximum value of SAR (measured) = 0.310 W/kg



Test Laboratory: DEKRA

Date/Time: 2021/06/02

274_WCDMA_BAND 2_RMC_9262_Bottom_ANT 0 10mm**DUT: WCDMA/LTE/5G Mobile Phone; Type: EA211001**

Communication System: UID 0, FCC WCDMA_Band-2; Frequency: 1852.4 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.37$ S/m; $\epsilon_r = 41.15$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 23.4, Liquid Temperature (°C) : 22.1

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.13, 8.13, 8.13); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/Body/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.651 W/kg

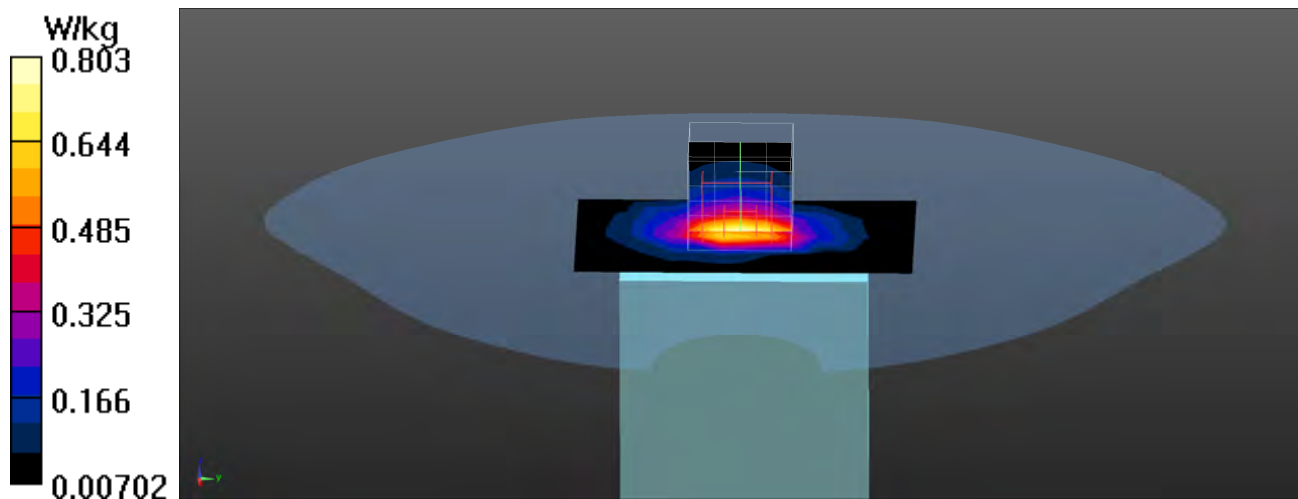
Configuration/Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.19 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.964 W/kg

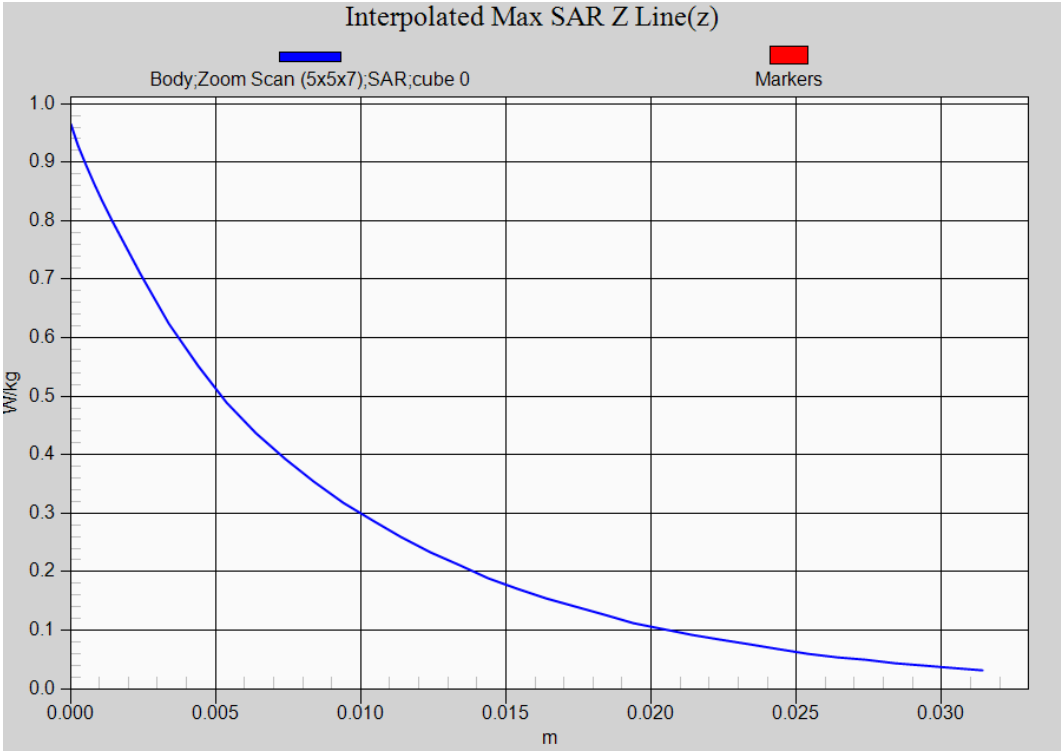
SAR(1 g) = 0.519 W/kg; SAR(10 g) = 0.272 W/kg

Maximum value of SAR (measured) = 0.803 W/kg



WCDMA Band 2 RMC EUT Bottom (Hotspot & Body-worn-ANT 0 10mm) Z-Axis plot

Channel: 9262



Test Laboratory: DEKRA

Date/Time: 2021/05/13

86_WCDMA_BAND 4_RMC_Left-Cheek_1513_ANT 0 0mm**DUT: WCDMA/LTE/5G Mobile Phone; Type: EA211001**

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; $\epsilon_r = 40.39$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature (°C) : 23.5, Liquid Temperature (°C) : 22.1

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.35, 8.35, 8.35); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/Body/Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.105 W/kg

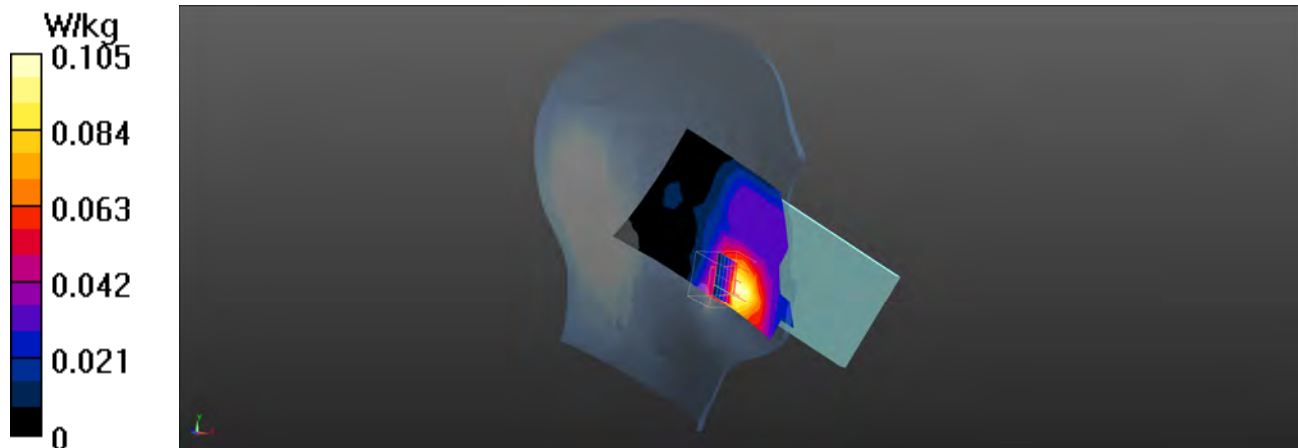
Configuration/Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.717 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.134 W/kg

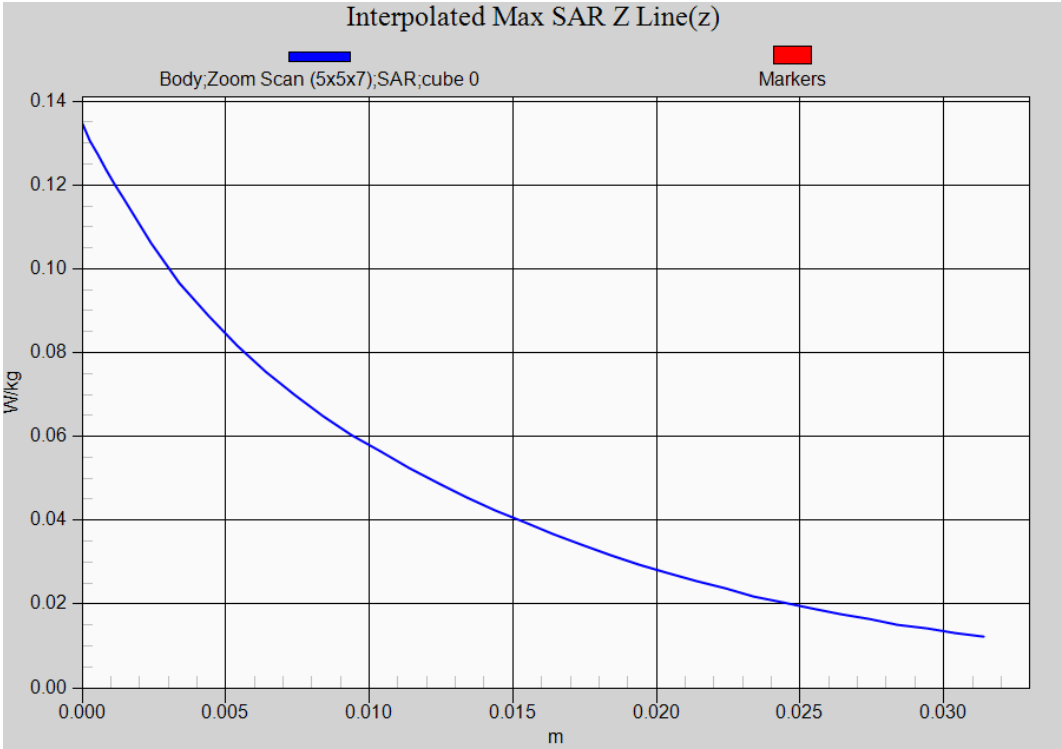
SAR(1 g) = 0.086 W/kg; SAR(10 g) = 0.054 W/kg

Maximum value of SAR (measured) = 0.114 W/kg



WCDMA Band 4 RMC EUT Left-Cheek (Head-ANT 0 0mm) Z-Axis plot

Channel: 1513



Test Laboratory: DEKRA

Date/Time: 2021/06/03

284_WCDMA_BAND 4_RMC_1413_Front_ANT 0 10mm**DUT: WCDMA/LTE/5G Mobile Phone; Type: EA211001**

Communication System: UID 0, FCC WCDMA_Band 4; Frequency: 1732.6 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 1732.6$ MHz; $\sigma = 1.37$ S/m; $\epsilon_r = 40.43$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.9, Liquid Temperature (°C) : 21.8

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.35, 8.35, 8.35); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/Body/Area Scan (7x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.253 W/kg

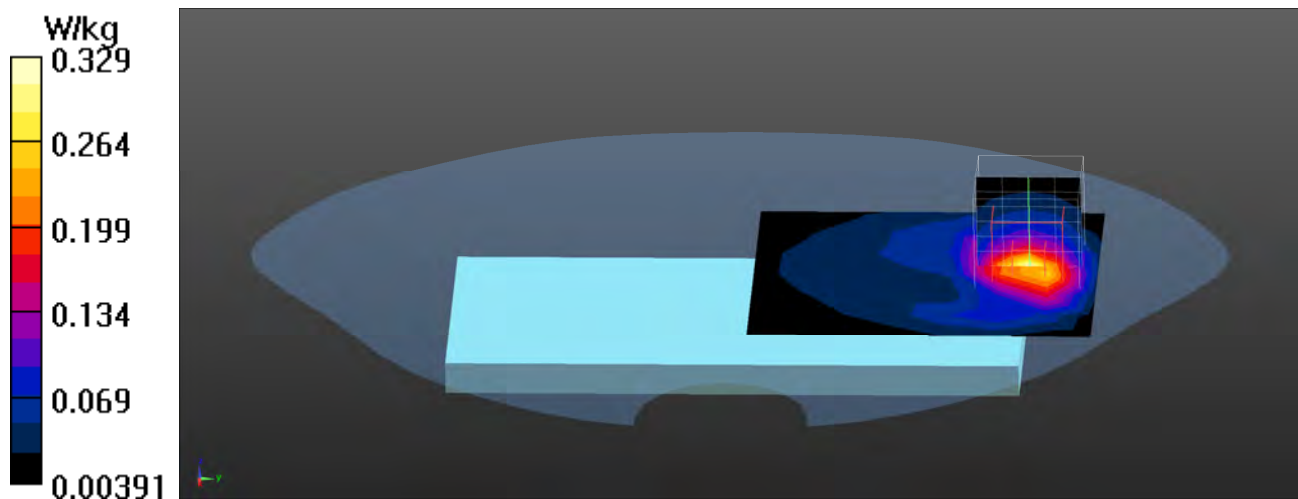
Configuration/Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.908 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.390 W/kg

SAR(1 g) = 0.220 W/kg; SAR(10 g) = 0.121 W/kg

Maximum value of SAR (measured) = 0.329 W/kg



Test Laboratory: DEKRA

Date/Time: 2021/06/03

276_WCDMA_BAND 4_RMC_1513_Bottom_ANT 0 10mm**DUT: WCDMA/LTE/5G Mobile Phone; Type: EA211001**

Communication System: UID 0, FCC WCDMA_Band 4; Frequency: 1752.6 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 1752.6$ MHz; $\sigma = 1.39$ S/m; $\epsilon_r = 40.14$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.9, Liquid Temperature (°C) : 21.8

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.35, 8.35, 8.35); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/Body/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.782 W/kg

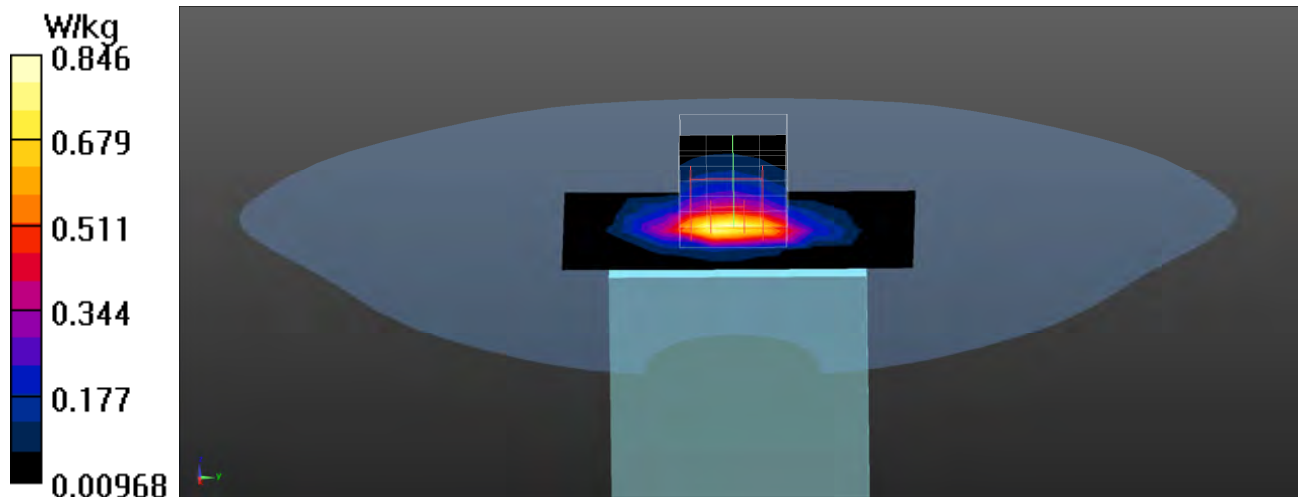
Configuration/Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.58 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.02 W/kg

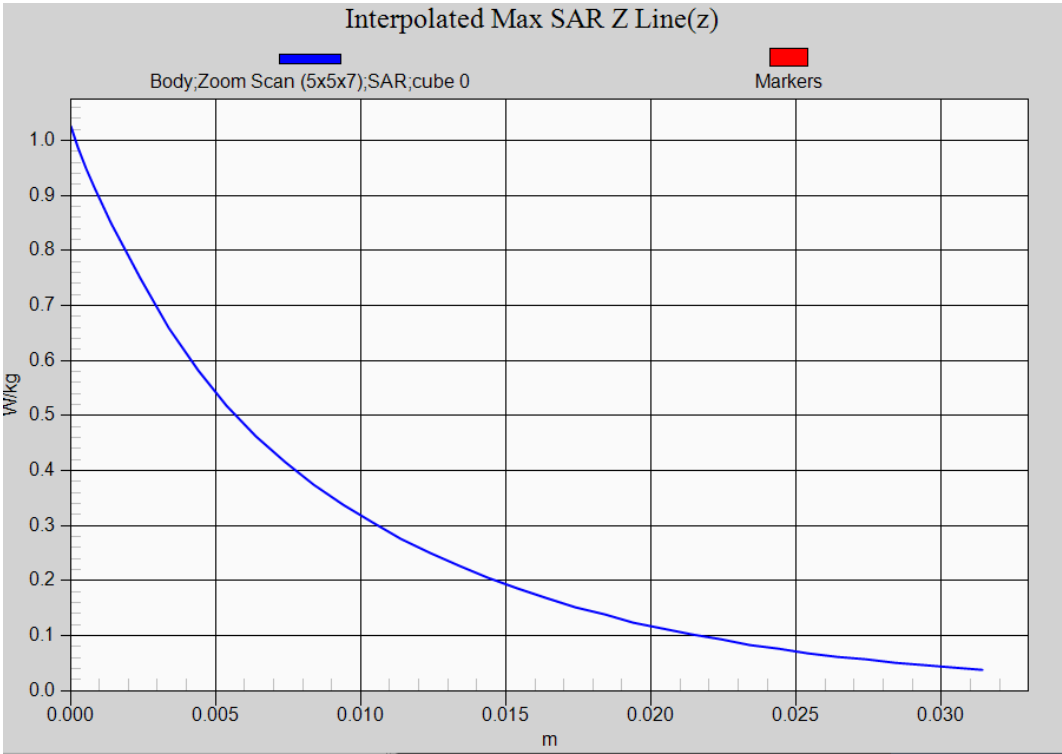
SAR(1 g) = 0.548 W/kg; SAR(10 g) = 0.289 W/kg

Maximum value of SAR (measured) = 0.846 W/kg



WCDMA Band 4 RMC EUT Bottom (Hotspot & Body-worn-ANT 0 10mm) Z-Axis plot

Channel: 1513



Test Laboratory: DEKRA

Date/Time: 2021/05/25

82_WCDMA_BAND 5_RMC_Right-Cheek_4233_ANT 0 0mm**DUT: WCDMA/LTE/5G Mobile Phone; Type: EA211001**

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; $\epsilon_r = 41.25$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature (°C) : 22.9, Liquid Temperature (°C) : 21.8

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(9.99, 9.99, 9.99); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/Body/Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.129 W/kg

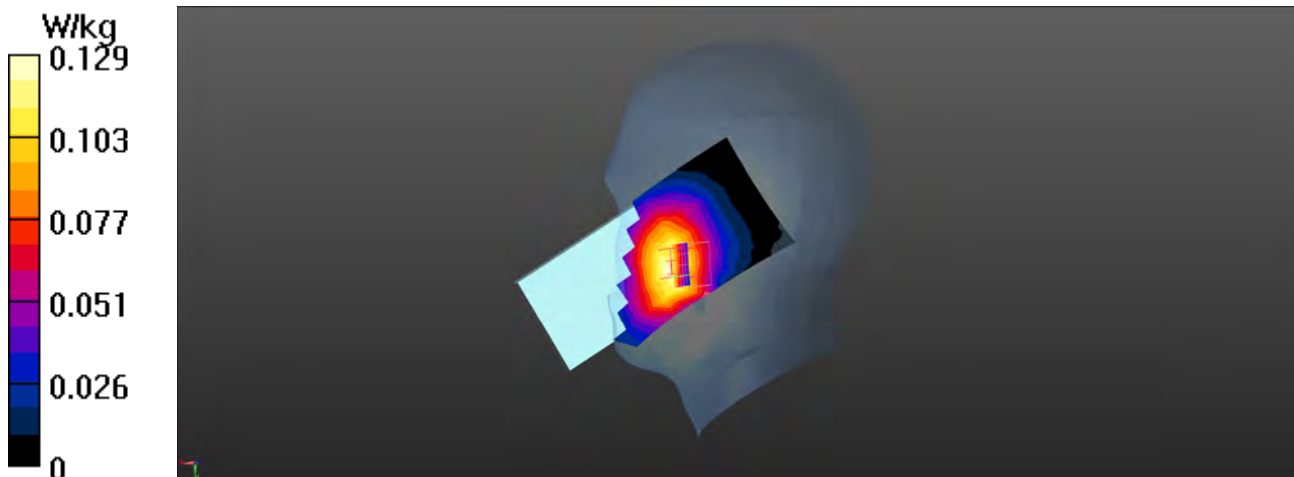
Configuration/Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.944 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.145 W/kg

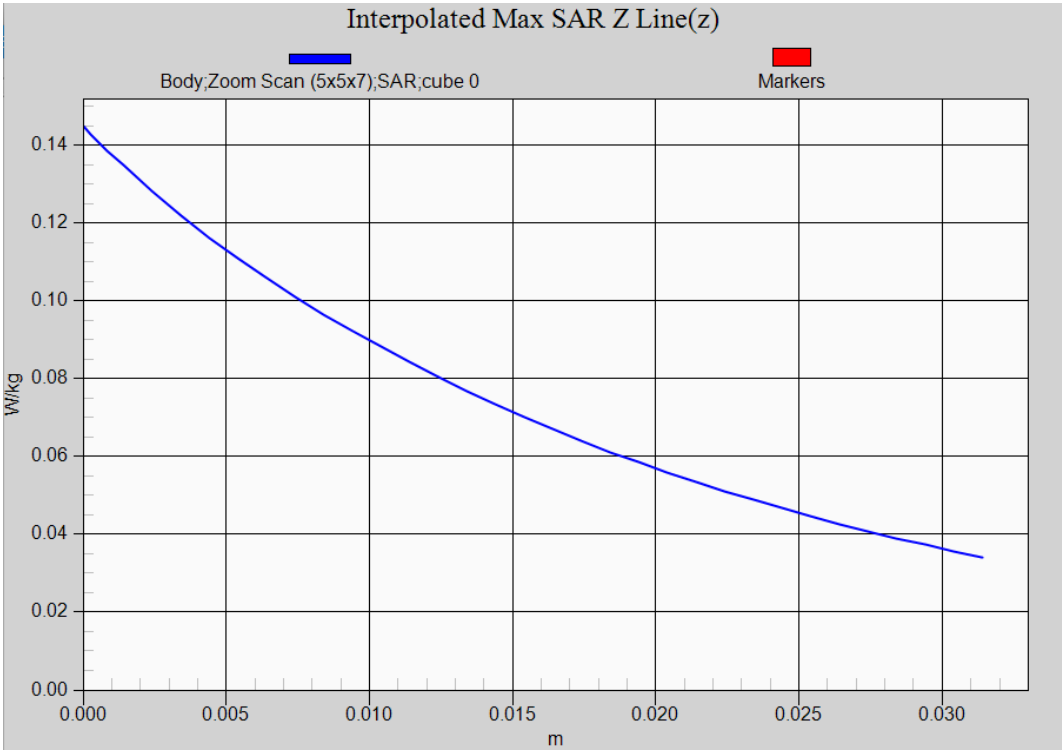
SAR(1 g) = 0.115 W/kg; SAR(10 g) = 0.089 W/kg

Maximum value of SAR (measured) = 0.133 W/kg



WCDMA Band 5 RMC EUT Right-Cheek (Head-ANT 0 0mm) Z-Axis plot

Channel: 4233



Test Laboratory: DEKRA

Date/Time: 2021/05/17

07_WCDMA_BAND 5_RMC_4233_Back_ANT 0 10mm**DUT: WCDMA/LTE/5G Mobile Phone; Type: EA211001**

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; $\epsilon_r = 41.35$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.5, Liquid Temperature (°C) : 21.7

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(9.99, 9.99, 9.99); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/Body/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.246 W/kg

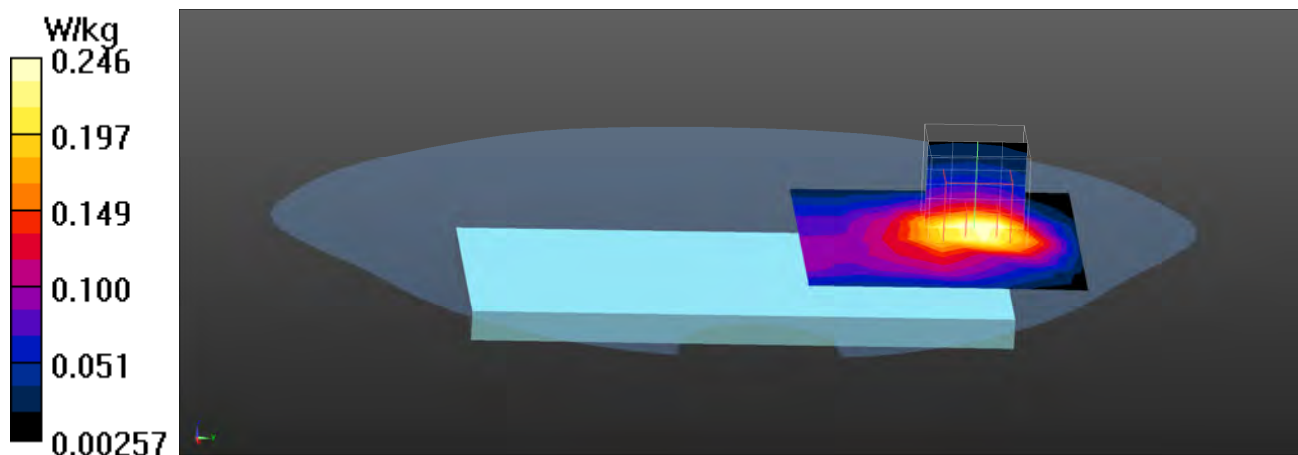
Configuration/Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.28 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.335 W/kg

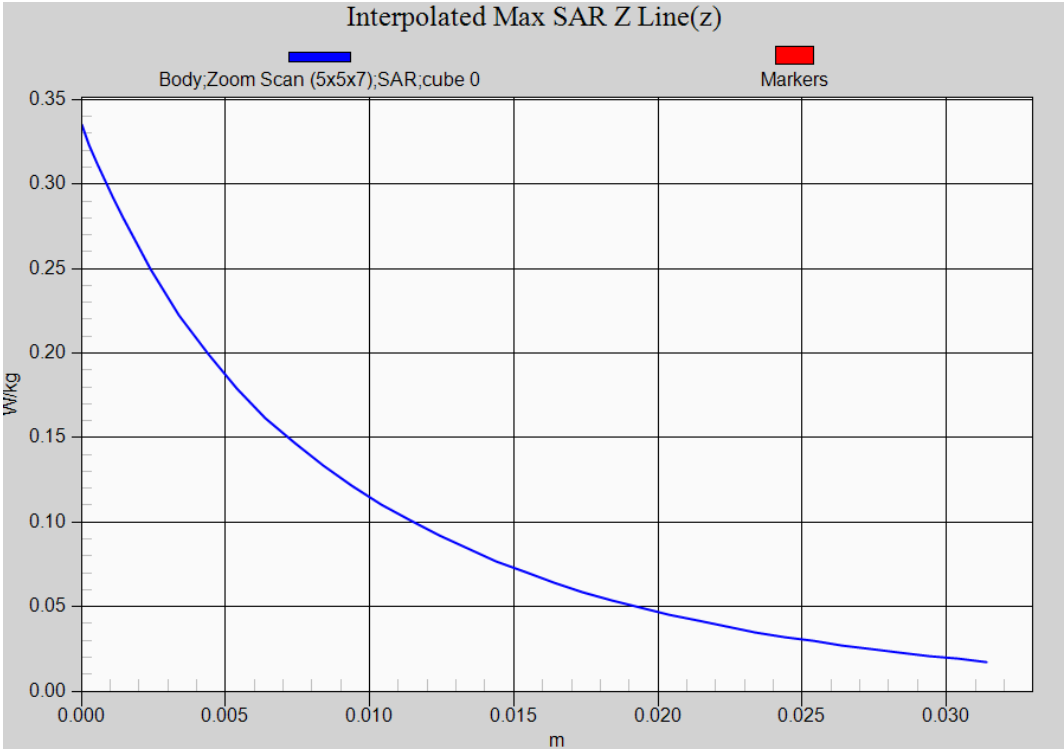
SAR(1 g) = 0.194 W/kg; SAR(10 g) = 0.117 W/kg

Maximum value of SAR (measured) = 0.273 W/kg



WCDMA Band 5 RMC EUT Back (Hotspot & Body-worn-ANT 0 10mm) Z-Axis plot

Channel: 4233



Test Laboratory: DEKRA

Date/Time: 2021/05/19

27_LTE Band2 20M QPSK 1RB-50_Left-Cheek_19100_ANT 0 0mm**DUT: WCDMA/LTE/5G Mobile Phone; Type: EA211001**

Communication System: UID 0, LTE Band2; Frequency: 1900 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.4$ S/m; $\epsilon_r = 40.51$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature (°C) : 23.1, Liquid Temperature (°C) : 21.9

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.13, 8.13, 8.13); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/Body/Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.217 W/kg

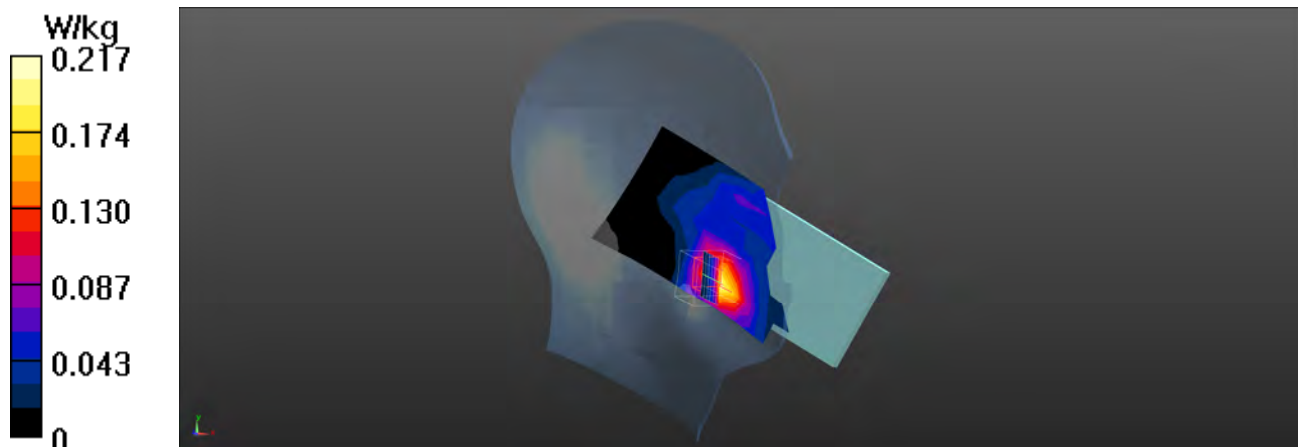
Configuration/Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.172 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.244 W/kg

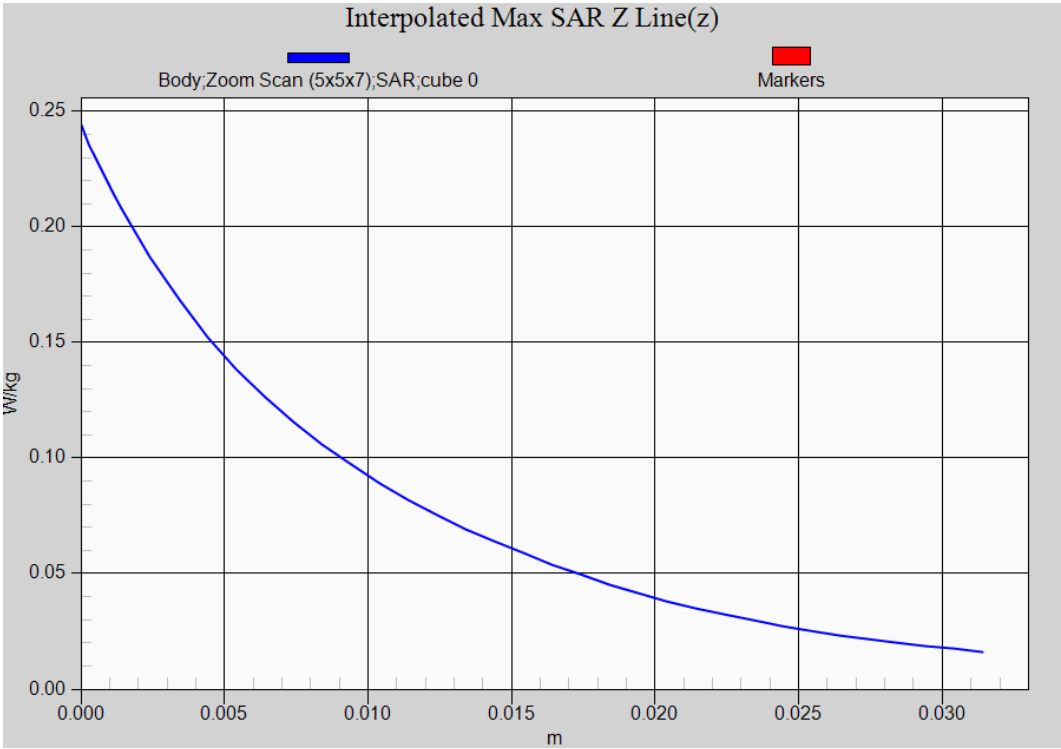
SAR(1 g) = 0.147 W/kg; SAR(10 g) = 0.088 W/kg

Maximum value of SAR (measured) = 0.197 W/kg



LTE Band 2 20M QPSK 1RB-50 EUT Left-Cheek (Head-ANT 0 0mm) Z-Axis plot

Channel: 19100



Test Laboratory: DEKRA

Date/Time: 2021/06/02

287_LTE_Band2_QPSK_20M_18900_1RB-50_Back_ANT 0 10mm**DUT: WCDMA/LTE/5G Mobile Phone; Type: EA211001**

Communication System: UID 0, LTE Band2; Frequency: 1880 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ S/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 23.4, Liquid Temperature (°C) : 22.1

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.13, 8.13, 8.13); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/Body/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.391 W/kg

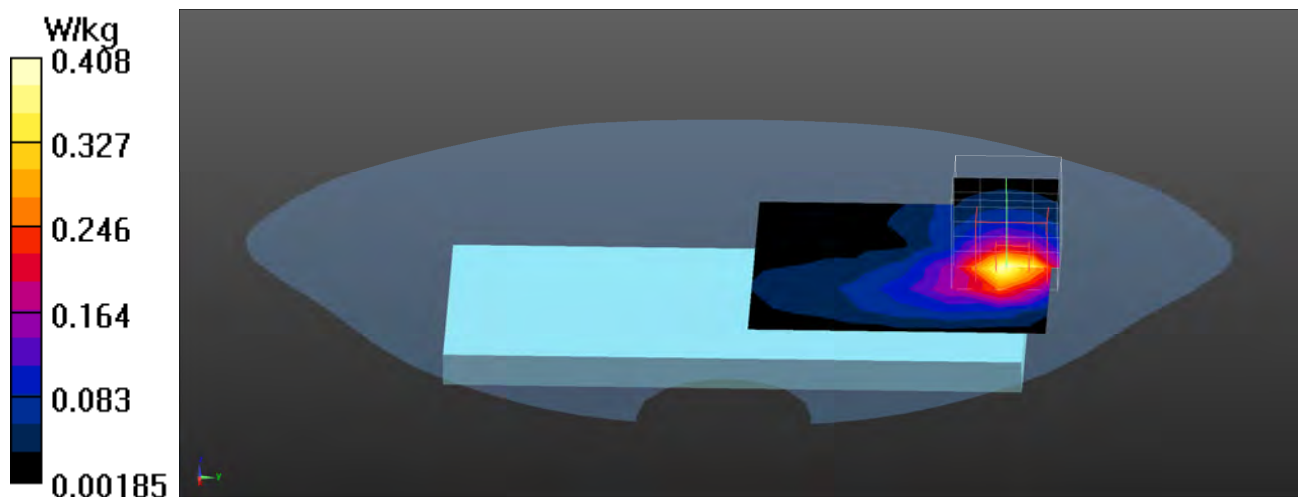
Configuration/Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.422 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.492 W/kg

SAR(1 g) = 0.285 W/kg; SAR(10 g) = 0.158 W/kg

Maximum value of SAR (measured) = 0.408 W/kg



Test Laboratory: DEKRA

Date/Time: 2021/06/02

298_LTE_Band2_QPSK_20M_18700_1RB-0_Bottom_ANT 0 10mm**DUT: WCDMA/LTE/5G Mobile Phone; Type: EA211001**

Communication System: UID 0, LTE Band2; Frequency: 1860 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 1860$ MHz; $\sigma = 1.38$ S/m; $\epsilon_r = 40.99$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 23.4, Liquid Temperature (°C) : 22.1

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.13, 8.13, 8.13); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/Body/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.746 W/kg

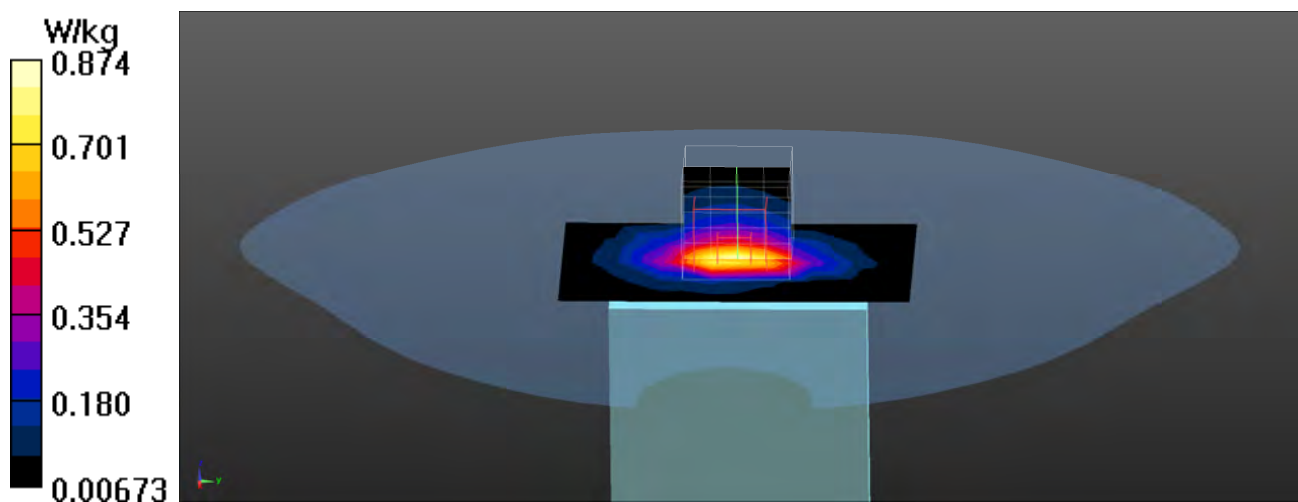
Configuration/Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.67 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.05 W/kg

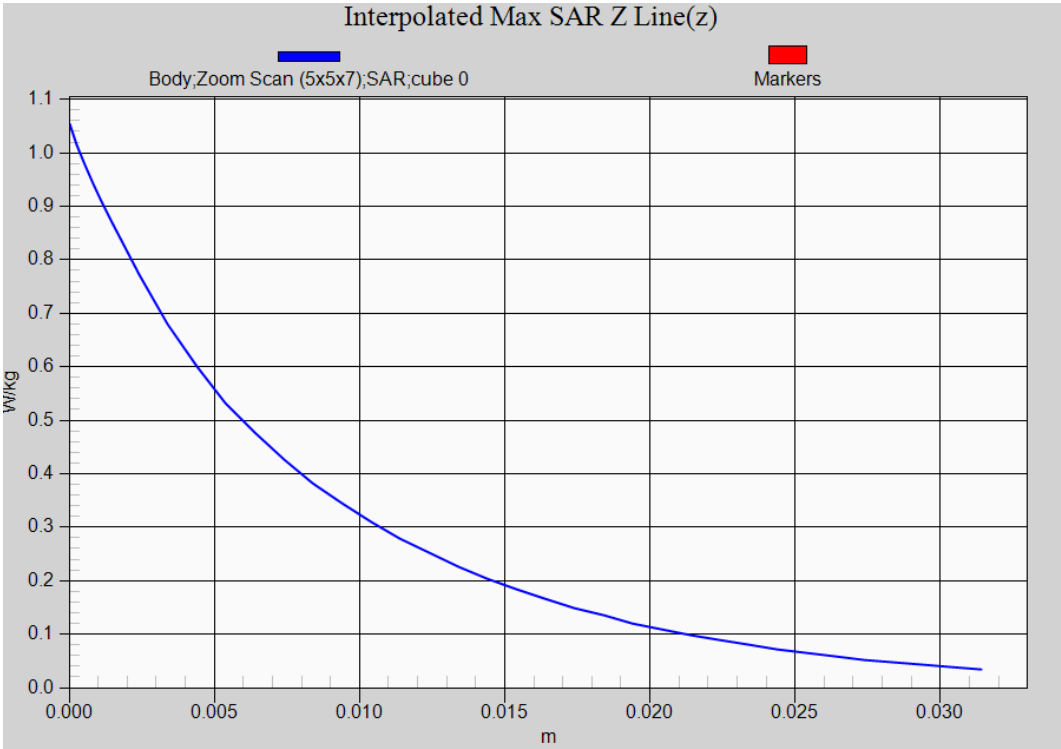
SAR(1 g) = 0.564 W/kg; SAR(10 g) = 0.295 W/kg

Maximum value of SAR (measured) = 0.874 W/kg



LTE Band 2 QPSK 20M 1RB-0 EUT Bottom (Hotspot & Body-worn-ANT 0 10mm) Z-Axis plot

Channel: 18700



Test Laboratory: DEKRA

Date/Time: 2021/05/25

14_LTE Band5 10M QPSK 1RB-25_Right-Cheek_20525_ANT 2 0mm**DUT: WCDMA/LTE/5G Mobile Phone; Type: EA211001**

Communication System: UID 0, LTE Band5; Frequency: 836.5 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 836.5$ MHz; $\sigma = 0.91$ S/m; $\epsilon_r = 41.47$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature (°C) : 22.9, Liquid Temperature (°C) : 21.8

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(9.99, 9.99, 9.99); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/Body/Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.25 W/kg

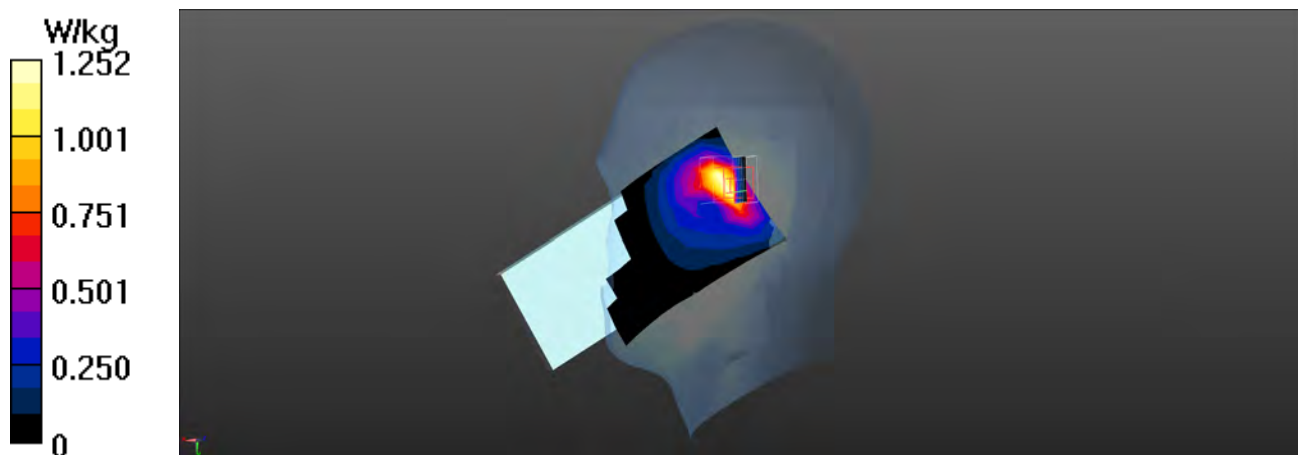
Configuration/Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.44 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 1.47 W/kg

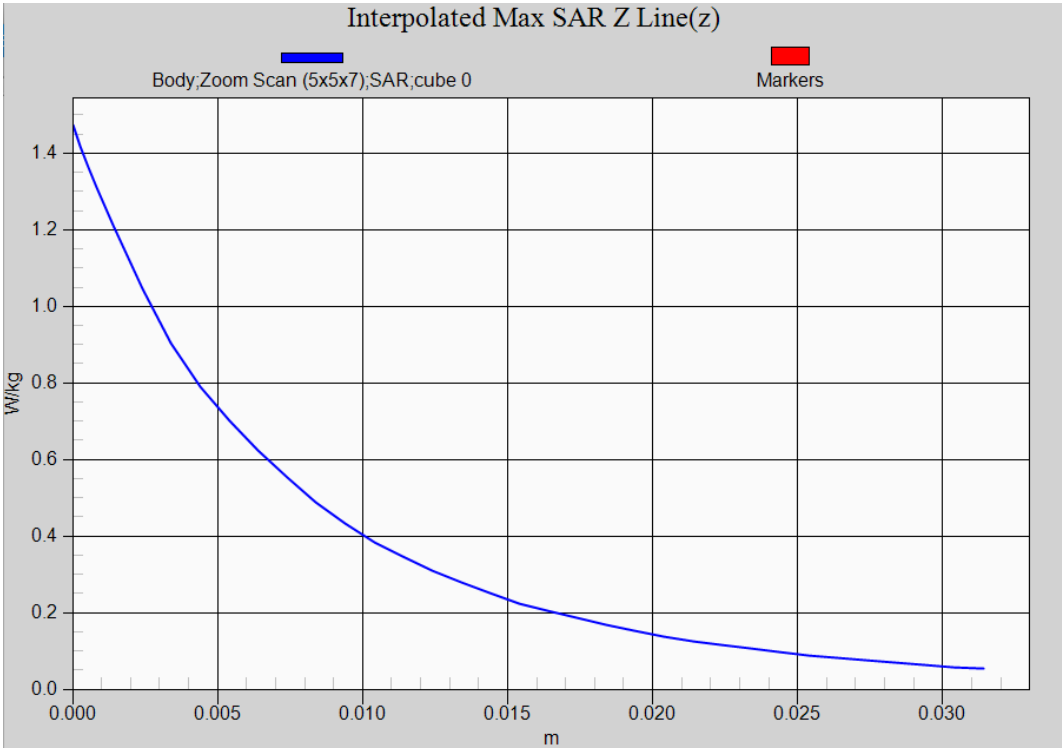
SAR(1 g) = 0.757 W/kg; SAR(10 g) = 0.407 W/kg

Maximum value of SAR (measured) = 1.18 W/kg



LTE Band 5 QPSK 10M 1RB-25 EUT Right-Cheek (Head-ANT 2 0mm) Z-Axis plot

Channel: 20525



Test Laboratory: DEKRA

Date/Time: 2021/05/17

09_LTE_Band5_QPSK_10M_20450_1RB-25_Back_ANT 2 10mm**DUT: WCDMA/LTE/5G Mobile Phone; Type: EA211001**

Communication System: UID 0, LTE Band5; Frequency: 829 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 829$ MHz; $\sigma = 0.88$ S/m; $\epsilon_r = 41.63$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.5, Liquid Temperature (°C) : 21.7

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(9.99, 9.99, 9.99); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/Body/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.425 W/kg

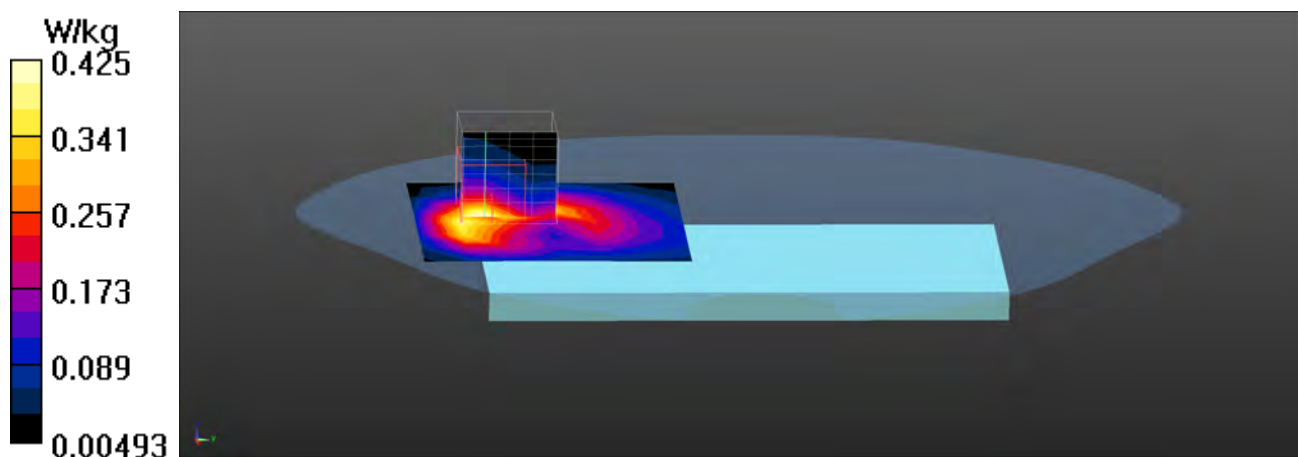
Configuration/Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.366 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.568 W/kg

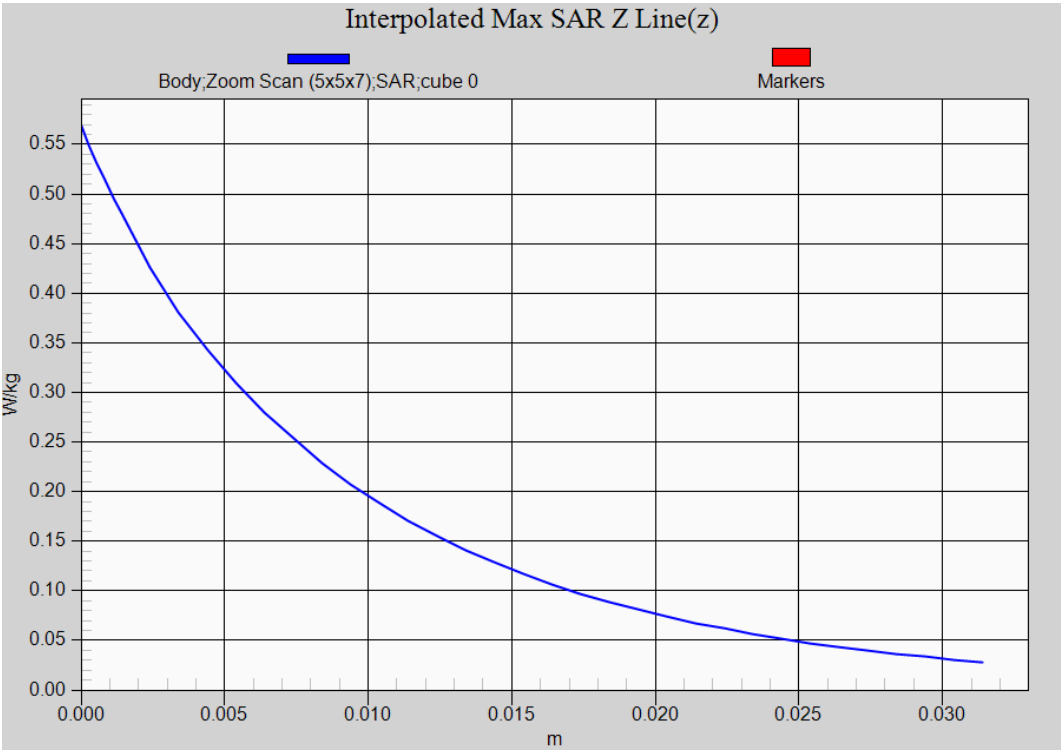
SAR(1 g) = 0.320 W/kg; SAR(10 g) = 0.175 W/kg

Maximum value of SAR (measured) = 0.454 W/kg



LTE Band 5 QPSK 10M 1RB-25 EUT Back (Hotspot & Body-worn-ANT 2 10mm) Z-Axis plot

Channel: 20450



Test Laboratory: DEKRA

Date/Time: 2021/05/25

15_LTE Band12 10M QPSK 1RB-25_Right-Cheek_23060_ANT 2 0mm**DUT: WCDMA/LTE/5G Mobile Phone; Type: EA211001**

Communication System: UID 0, LTE Band12; Frequency: 704 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 704$ MHz; $\sigma = 0.87$ S/m; $\epsilon_r = 42.74$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature (°C) : 22.9, Liquid Temperature (°C) : 21.8

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(10.21, 10.21, 10.21); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/Body/Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.54 W/kg

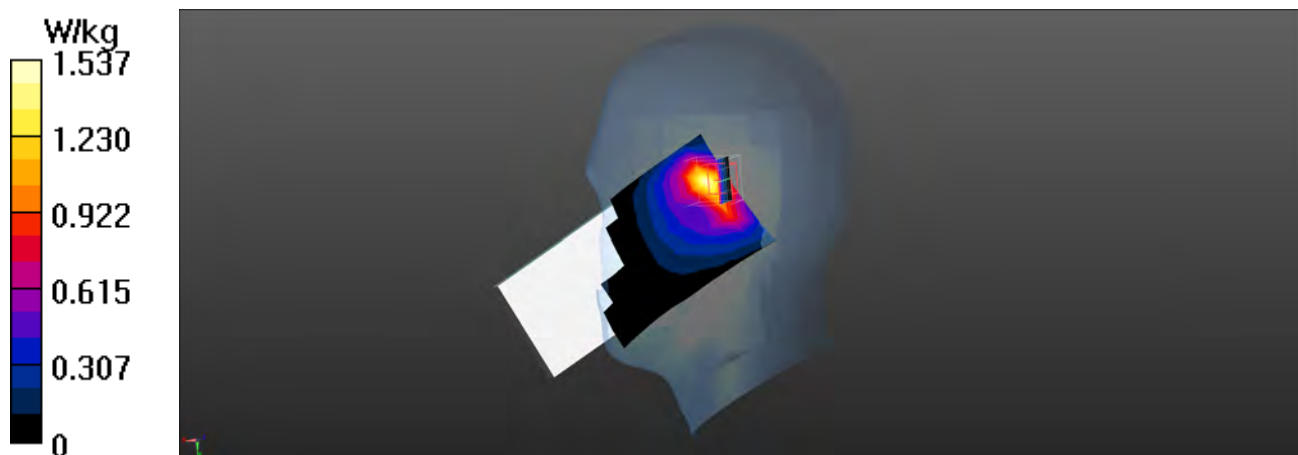
Configuration/Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.50 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 1.81 W/kg

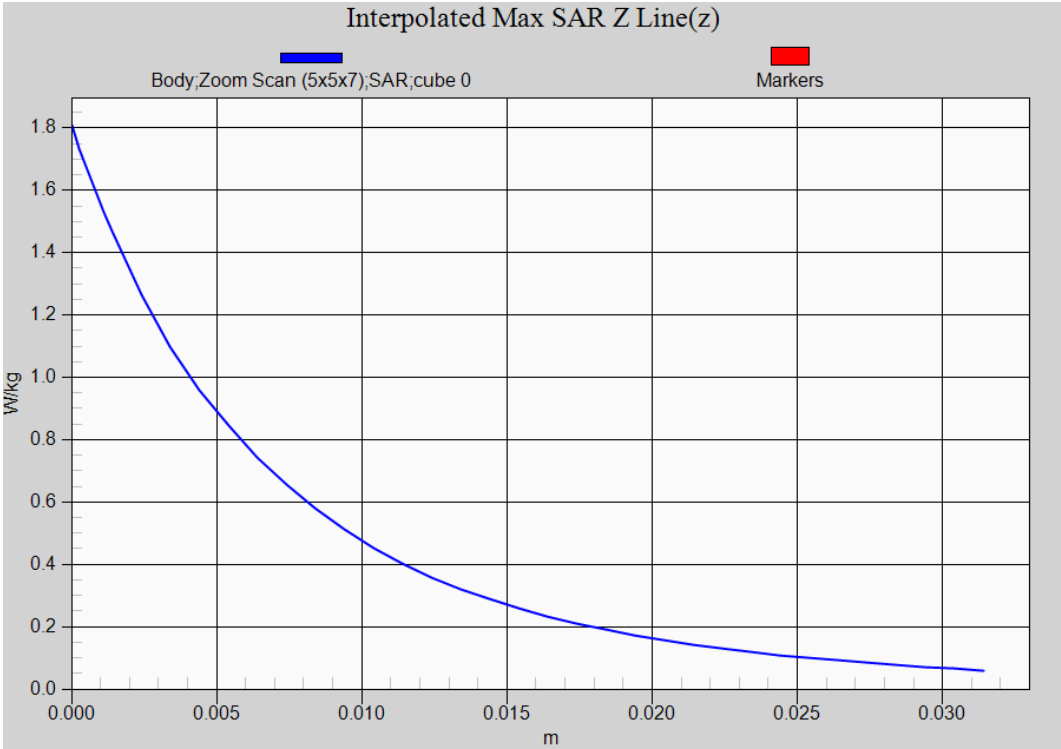
SAR(1 g) = 0.910 W/kg; SAR(10 g) = 0.473 W/kg

Maximum value of SAR (measured) = 1.42 W/kg



LTE Band 12 QPSK 10M 1RB-25 EUT Right-Cheek (Head-ANT 2 0mm) Z-Axis plot

Channel: 23060



Test Laboratory: DEKRA

Date/Time: 2021/05/17

20_LTE_Band12_QPSK_10M_23060_1RB-25_Back_ANT 2 10mm**DUT: WCDMA/LTE/5G Mobile Phone; Type: EA211001**

Communication System: UID 0, LTE Band12; Frequency: 704 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 704$ MHz; $\sigma = 0.85$ S/m; $\epsilon_r = 42.84$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.5, Liquid Temperature (°C) : 21.7

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(10.21, 10.21, 10.21); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/Body/Area Scan (7x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.639 W/kg

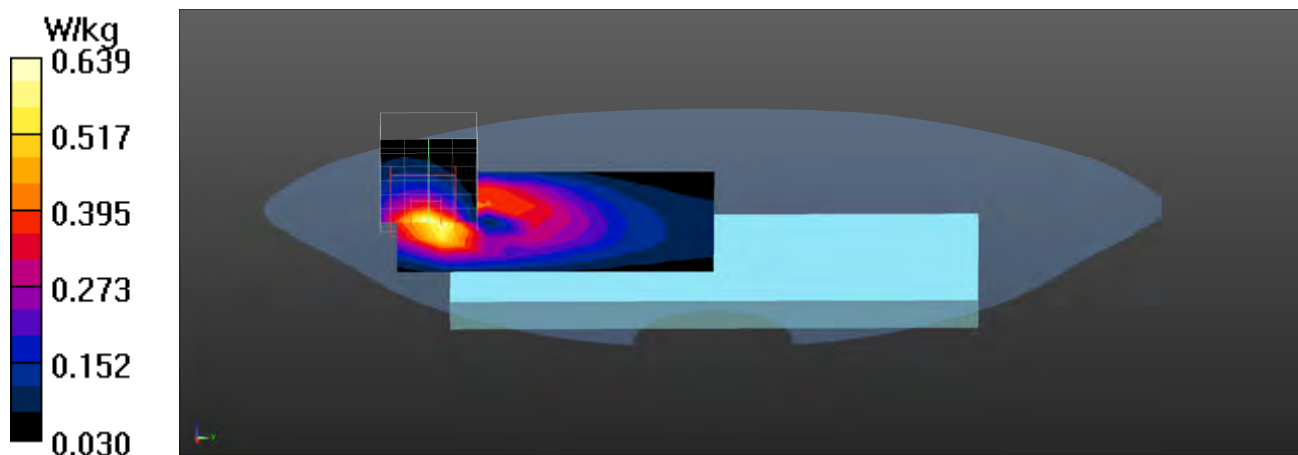
Configuration/Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.96 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.774 W/kg

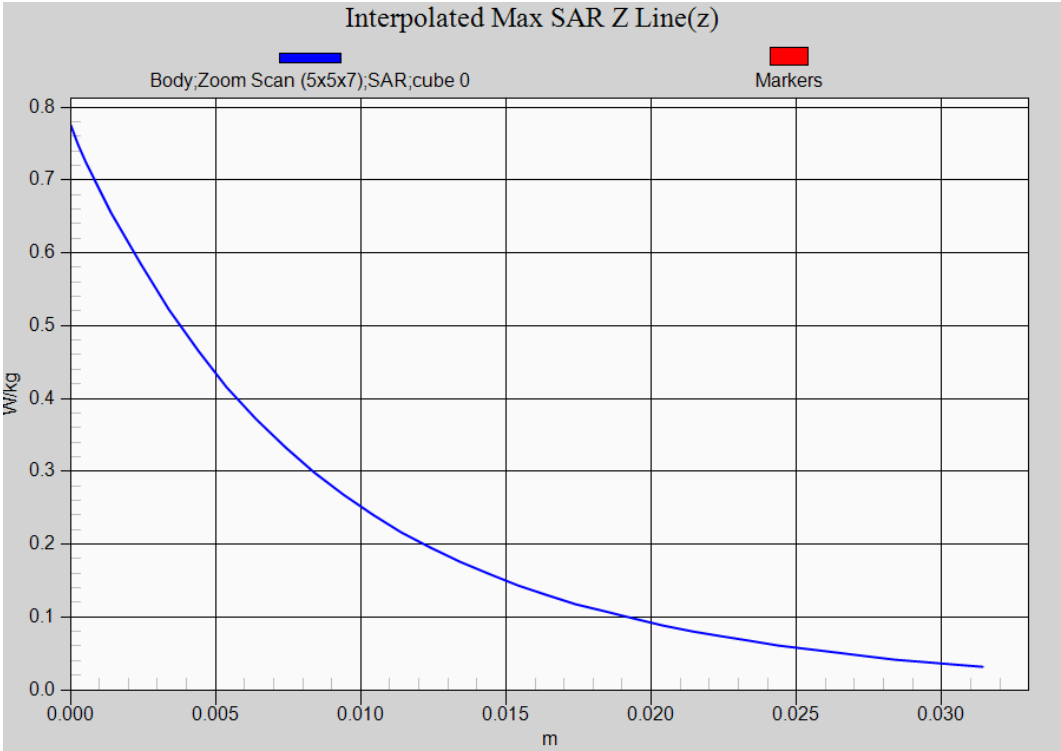
SAR(1 g) = 0.447 W/kg; SAR(10 g) = 0.255 W/kg

Maximum value of SAR (measured) = 0.658 W/kg



LTE Band 12 QPSK 10M 1RB-25 EUT Back (Hotspot & Body-worn-ANT 2 10mm) Z-Axis plot

Channel: 23060



Test Laboratory: DEKRA

Date/Time: 2021/05/25

23_LTE Band14 10M QPSK 1RB-25_Right-Cheek_23330_ANT 2 0mm**DUT: WCDMA/LTE/5G Mobile Phone; Type: EA211001**

Communication System: UID 0, LTE Band14; Frequency: 793 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 793$ MHz; $\sigma = 0.9$ S/m; $\epsilon_r = 42.01$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature (°C) : 22.9, Liquid Temperature (°C) : 21.8

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(10.21, 10.21, 10.21); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/Body/Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.904 W/kg

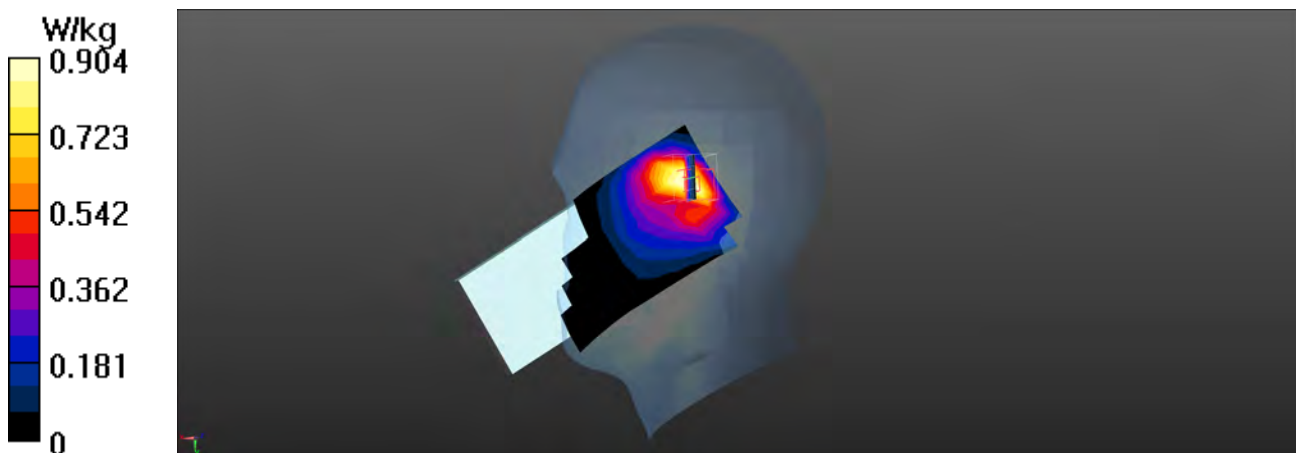
Configuration/Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

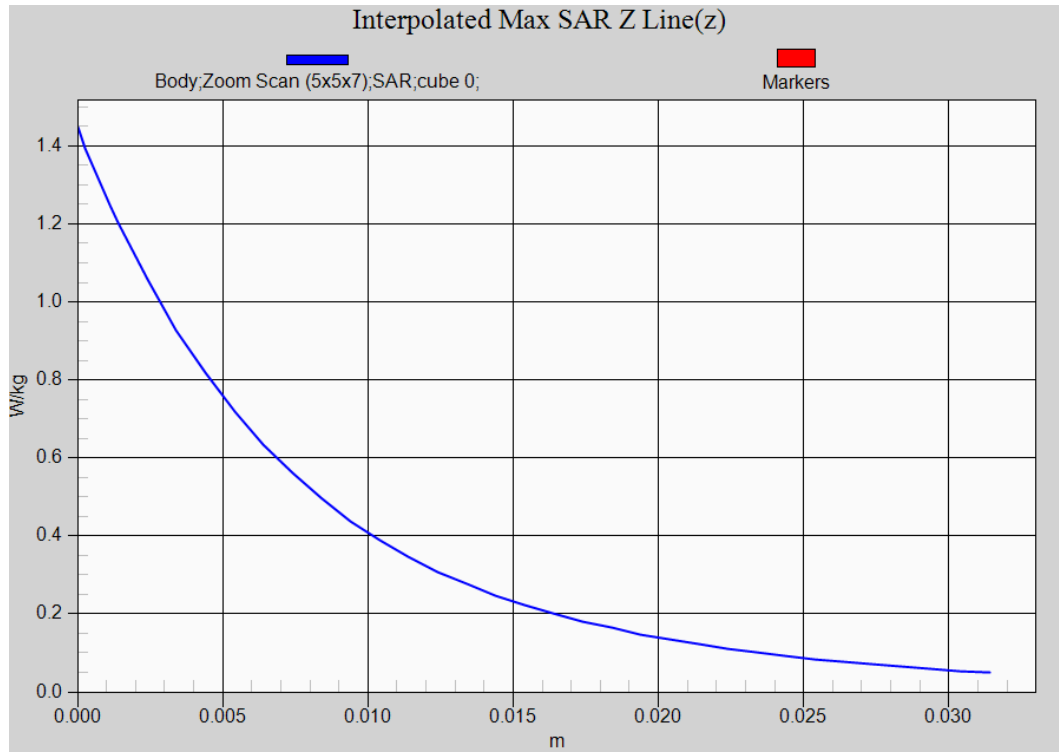
Reference Value = 20.77 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 1.45 W/kg

SAR(1 g) = 0.763 W/kg; SAR(10 g) = 0.409 W/kg

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



LTE Band 14 QPSK 10M 1RB-25 EUT Right-Cheek (Head-ANT 2 0mm), Z-Axis plot**Channel: 23330**

Test Laboratory: DEKRA

Date/Time: 2021/05/17

22_LTE_Band14_QPSK_10M_23330_1RB-25_Back_ANT 2 10mm**DUT: WCDMA/LTE/5G Mobile Phone; Type: EA211001**

Communication System: UID 0, LTE Band14; Frequency: 793 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 793$ MHz; $\sigma = 0.91$ S/m; $\epsilon_r = 42.09$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.5, Liquid Temperature (°C) : 21.7

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(10.21, 10.21, 10.21); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/Body/Area Scan (7x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.474 W/kg

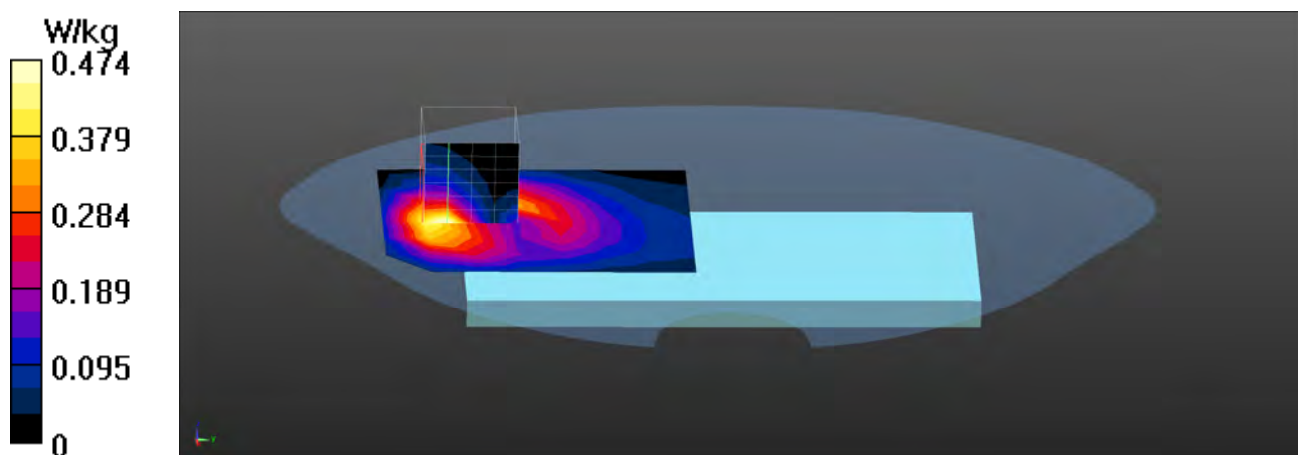
Configuration/Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.998 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.637 W/kg

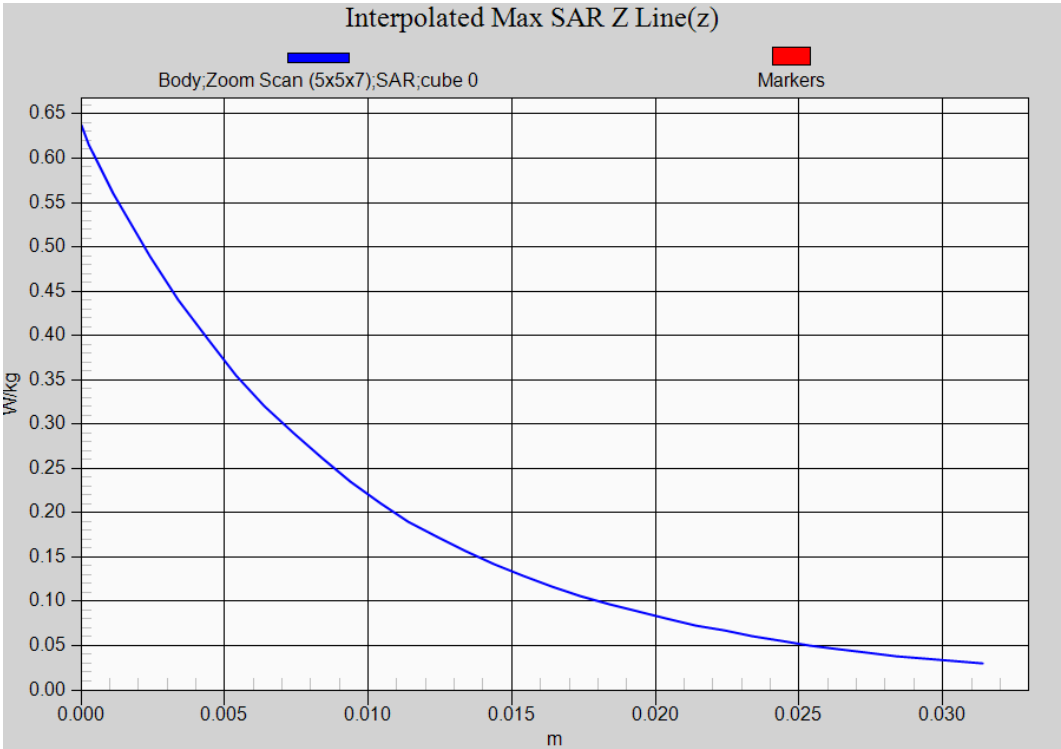
SAR(1 g) = 0.363 W/kg; SAR(10 g) = 0.194 W/kg

Maximum value of SAR (measured) = 0.518 W/kg



LTE Band 14 QPSK 10M 1RB-25 EUT Back (Hotspot & Body-worn-ANT 2 10mm), Z-Axis plot

Channel: 23330



Test Laboratory: DEKRA

Date/Time: 2021/05/13

61_LTE_BAND30_QPSK_10M_27710_1RB-25_Left-Cheek_ANT 0 0mm**DUT: WCDMA/LTE/5G Mobile Phone; Type: EA211001**

Communication System: UID 0, LTE BAND 30; Frequency: 2310 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 2310$ MHz; $\sigma = 1.69$ S/m; $\epsilon_r = 39.44$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature (°C) : 22.9, Liquid Temperature (°C) : 21.8

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(7.69, 7.69, 7.69); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/Body/Area Scan (9x17x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.149 W/kg

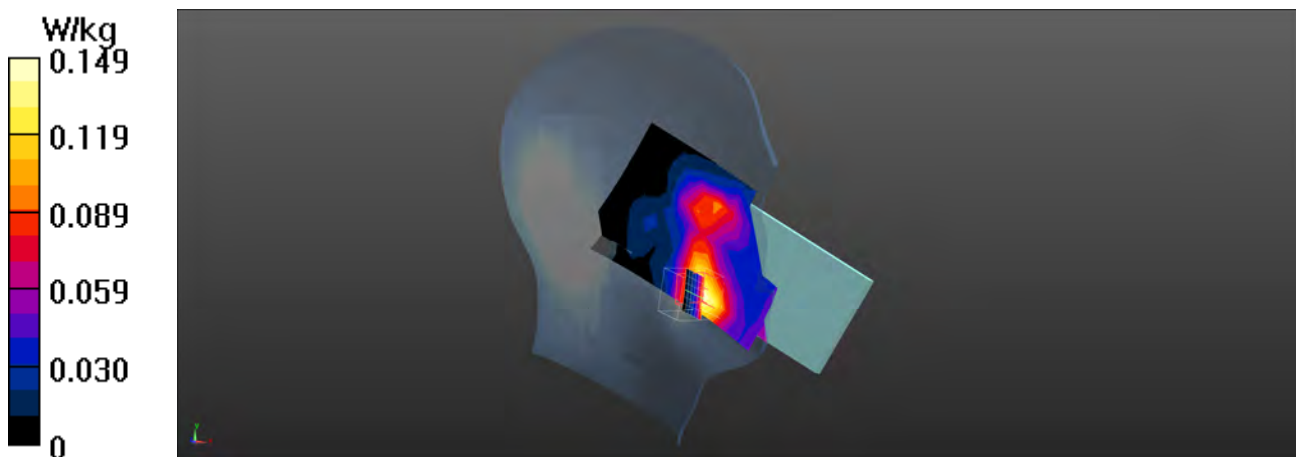
Configuration/Body/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.348 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.179 W/kg

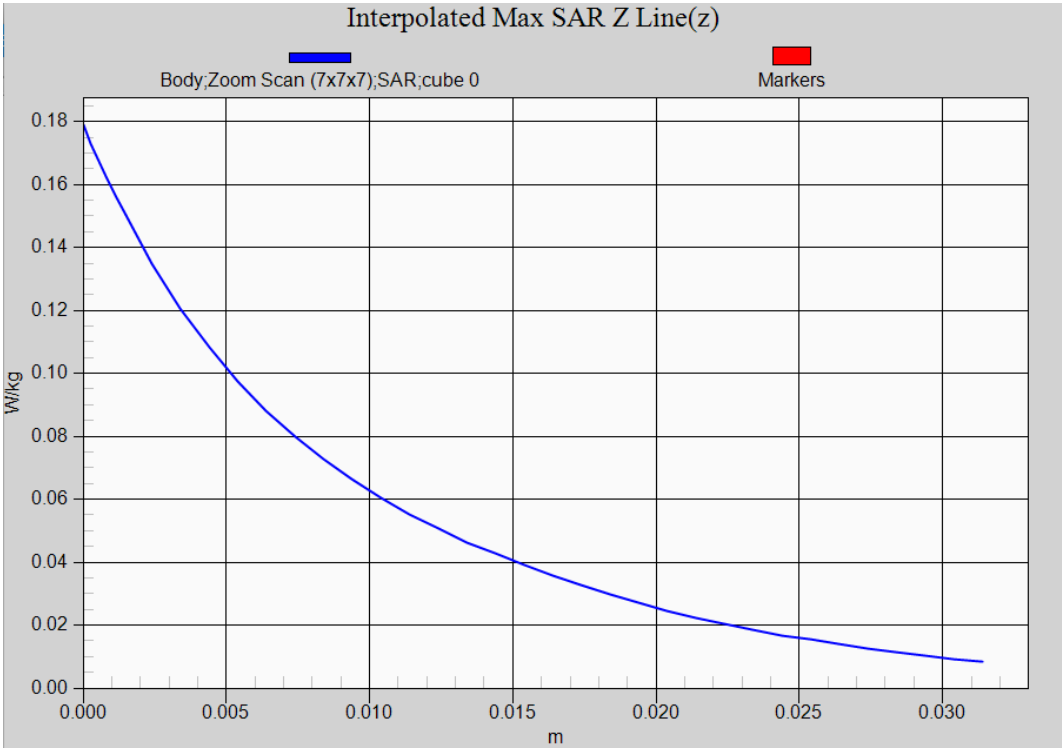
SAR(1 g) = 0.104 W/kg; SAR(10 g) = 0.060 W/kg

Maximum value of SAR (measured) = 0.151 W/kg



LTE Band 30 QPSK 10M 1RB-25 EUT Left-Cheek (Head-ANT 0 0mm) Z-Axis plot

Channel: 27710



Test Laboratory: DEKRA

Date/Time: 2021/06/03

306_LTE_Band30_QPSK_10M_27710_1RB-25_Back_ANT 0 10mm**DUT: WCDMA/LTE/5G Mobile Phone; Type: EA211001**

Communication System: UID 0, LTE BAND 30; Frequency: 2310 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 2310$ MHz; $\sigma = 1.68$ S/m; $\epsilon_r = 39.56$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.5, Liquid Temperature (°C) : 21.7

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(7.69, 7.69, 7.69); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/Body/Area Scan (9x7x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.240 W/kg

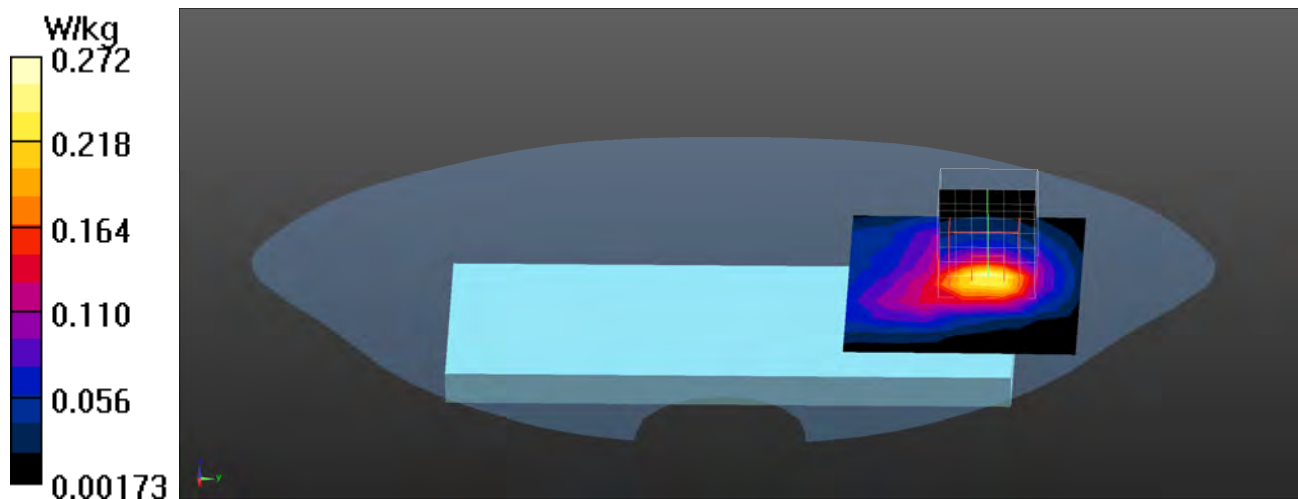
Configuration/Body/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.521 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.335 W/kg

SAR(1 g) = 0.174 W/kg; SAR(10 g) = 0.093 W/kg

Maximum value of SAR (measured) = 0.272 W/kg



Test Laboratory: DEKRA

Date/Time: 2021/06/03

300_LTE_Band30_QPSK_10M_27710_1RB-25_Bottom_ANT 0 10mm**DUT: WCDMA/LTE/5G Mobile Phone; Type: EA211001**

Communication System: UID 0, LTE BAND 30; Frequency: 2310 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 2310$ MHz; $\sigma = 1.68$ S/m; $\epsilon_r = 39.56$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.5, Liquid Temperature (°C) : 21.7

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(7.69, 7.69, 7.69); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/Body/Area Scan (6x9x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.568 W/kg

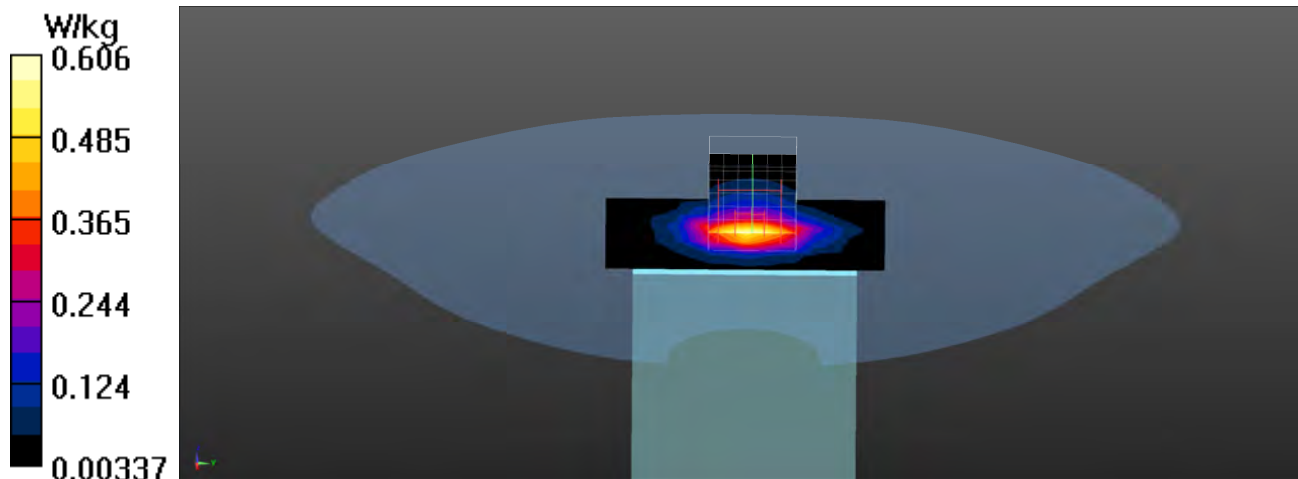
Configuration/Body/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.47 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.759 W/kg

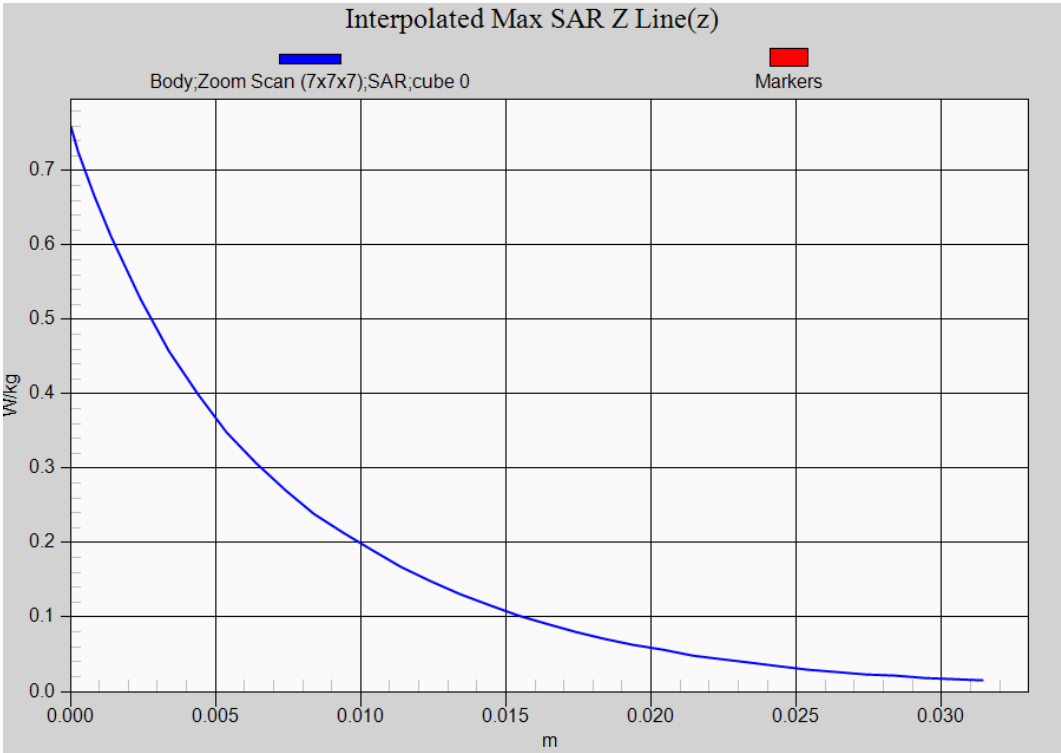
SAR(1 g) = 0.381 W/kg; SAR(10 g) = 0.193 W/kg

Maximum value of SAR (measured) = 0.606 W/kg



LTE Band 30 QPSK 10M 1RB-25 EUT Bottom (Hotspot & Body-worn-ANT 0 10mm) Z-Axis plot

Channel: 27710



Test Laboratory: DEKRA

Date/Time: 2021/05/13

169_LTE Band66_QPSK_20M_132072_1RB-50_Left-Cheek_ANT 0 0mm**DUT: WCDMA/LTE/5G Mobile Phone; Type: EA211001**

Communication System: UID 0, FCC LTE Band66; Frequency: 1720 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 1720$ MHz; $\sigma = 1.34$ S/m; $\epsilon_r = 40.71$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature (°C) : 23.5, Liquid Temperature (°C) : 22.1

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.35, 8.35, 8.35); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/Body/Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.146 W/kg

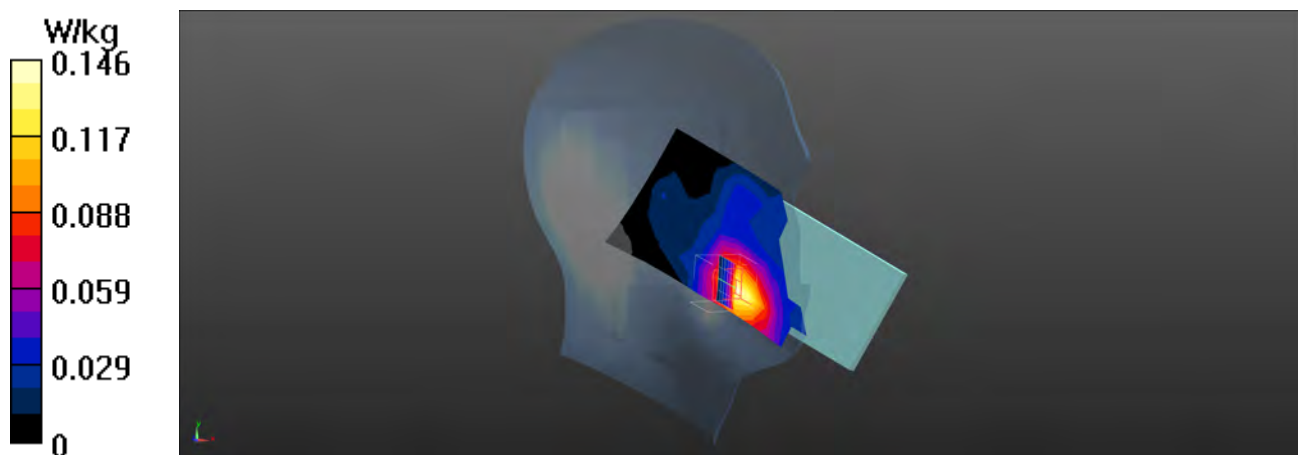
Configuration/Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.680 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.160 W/kg

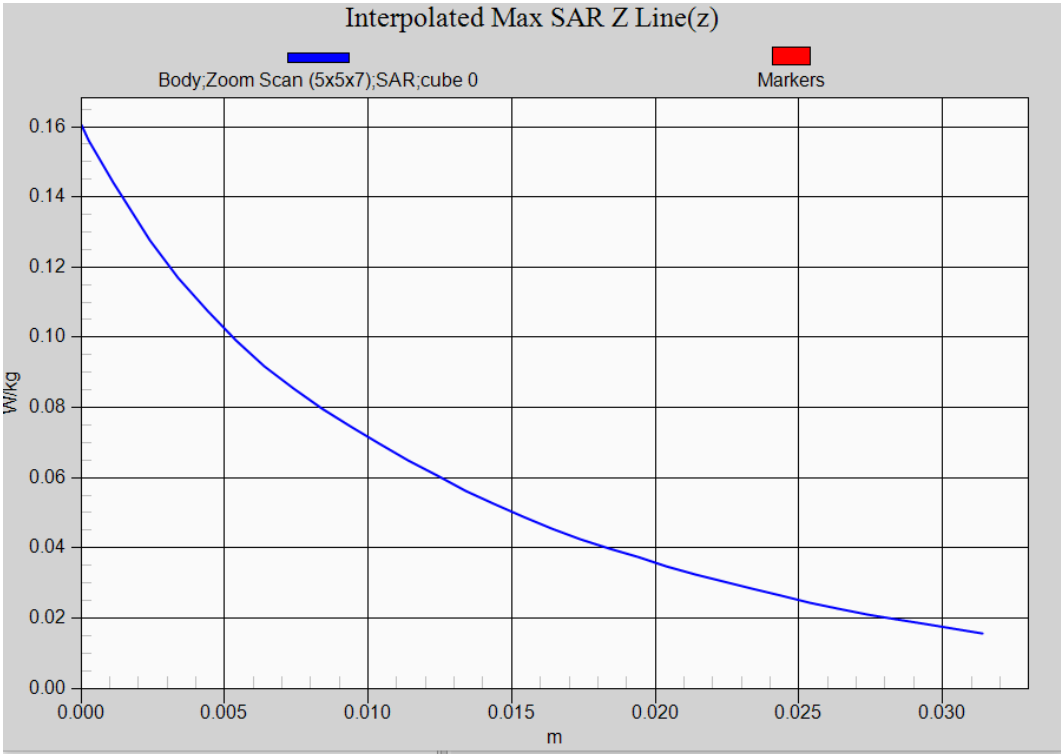
SAR(1 g) = 0.105 W/kg; SAR(10 g) = 0.067 W/kg

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



LTE Band 66 QPSK 20M 1RB-50 EUT Left-Cheek (Head-ANT 0 0mm) Z-Axis plot

Channel: 132072



Test Laboratory: DEKRA

Date/Time: 2021/06/03

320_LTE_Band66_QPSK_20M_132572_1RB-50_Front_ANT 0 10mm**DUT: WCDMA/LTE/5G Mobile Phone; Type: EA211001**

Communication System: UID 0, FCC LTE Band66; Frequency: 1770 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 1770$ MHz; $\sigma = 1.4$ S/m; $\epsilon_r = 40.01$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.9, Liquid Temperature (°C) : 21.8

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.35, 8.35, 8.35); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/Body/Area Scan (8x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.393 W/kg

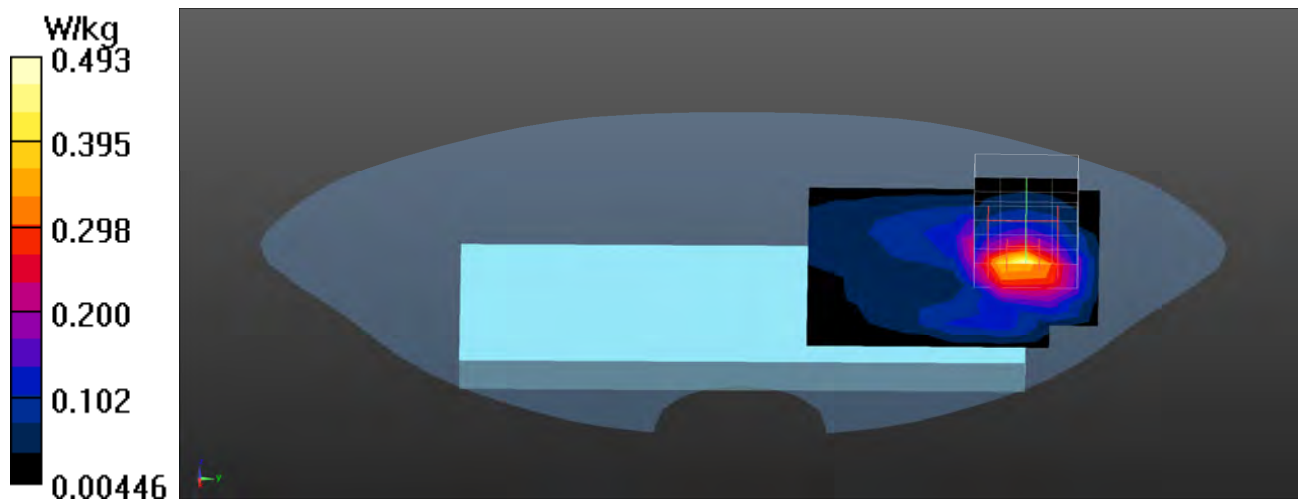
Configuration/Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.790 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.588 W/kg

SAR(1 g) = 0.331 W/kg; SAR(10 g) = 0.181 W/kg

Maximum value of SAR (measured) = 0.493 W/kg



Test Laboratory: DEKRA

Date/Time: 2021/06/03

311_LTE_Band66_QPSK_20M_132572_1RB-50_Bottom_ANT 0 10mm**DUT: WCDMA/LTE/5G Mobile Phone; Type: EA211001**

Communication System: UID 0, FCC LTE Band66; Frequency: 1770 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 1770$ MHz; $\sigma = 1.4$ S/m; $\epsilon_r = 40.01$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.9, Liquid Temperature (°C) : 21.8

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.35, 8.35, 8.35); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/Body/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.845 W/kg

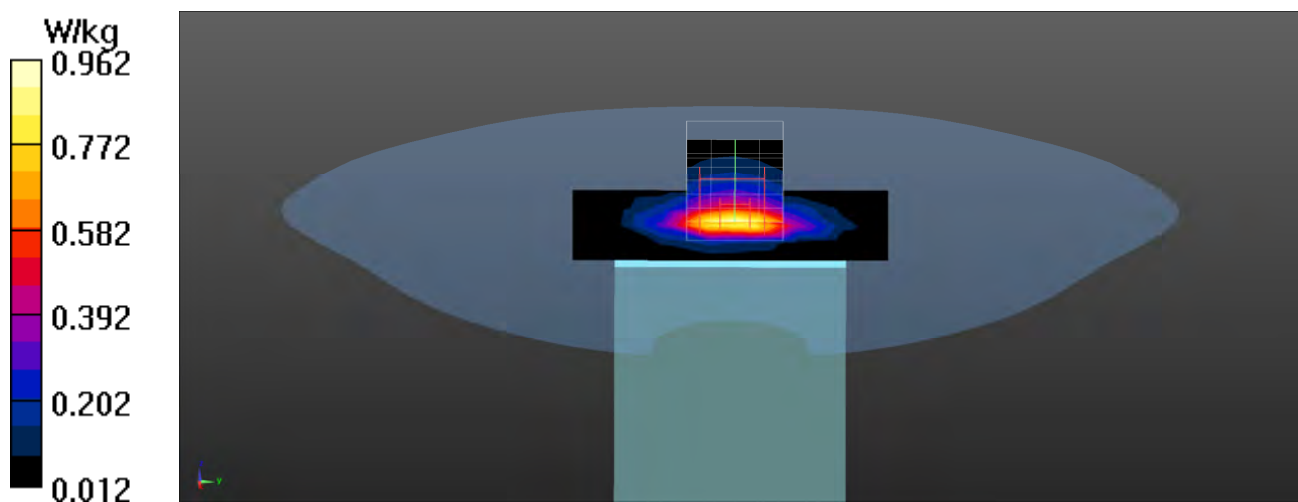
Configuration/Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.41 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.16 W/kg

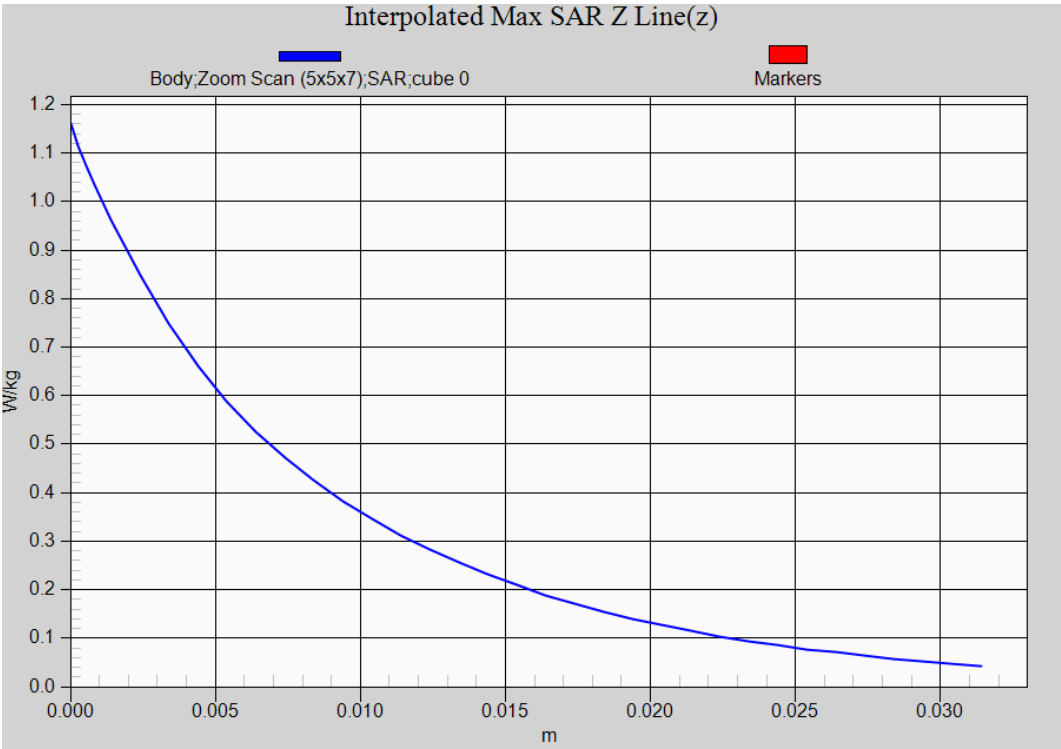
SAR(1 g) = 0.624 W/kg; SAR(10 g) = 0.329 W/kg

Maximum value of SAR (measured) = 0.962 W/kg



LTE Band 66 QPSK 20M 1RB-50 EUT Bottom (Hotspot & Body-worn-ANT 0 10mm) Z-Axis plot

Channel: 132572



Test Laboratory: DEKRA

Date/Time: 2021/05/27

199_NRn2_DFT_S_QPSK_20M_376000_Inner_1RB_Left-Cheek_ANT 0 0mm**DUT: WCDMA/LTE/5G Mobile Phone; Type: EA211001**

Communication System: UID 0, 5G n2; Frequency: 1880 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.38$ S/m; $\epsilon_r = 40.74$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature (°C) : 22.9, Liquid Temperature (°C) : 21.7

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.13, 8.13, 8.13); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/Body/Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.179 W/kg

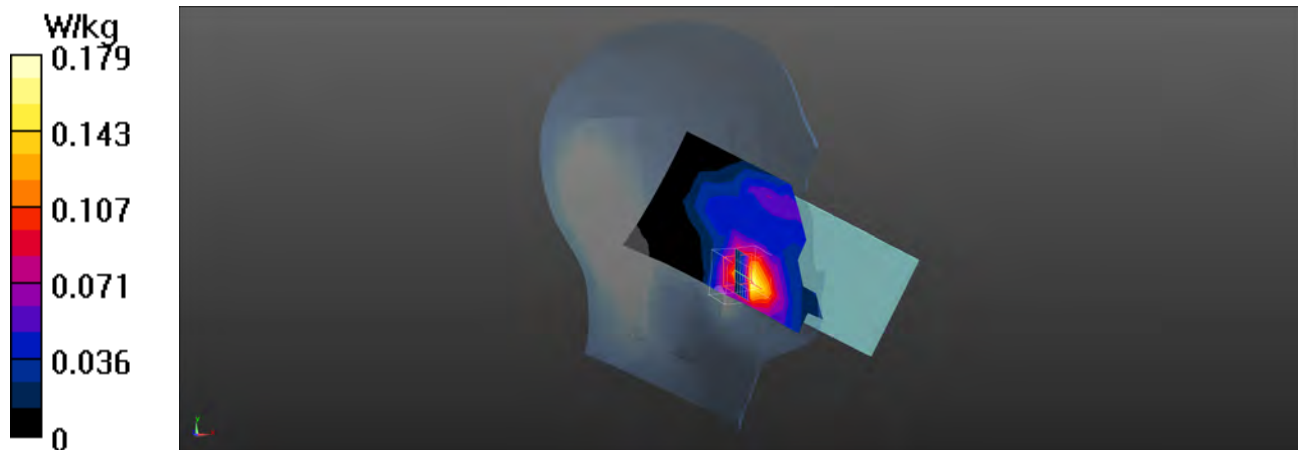
Configuration/Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.328 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.196 W/kg

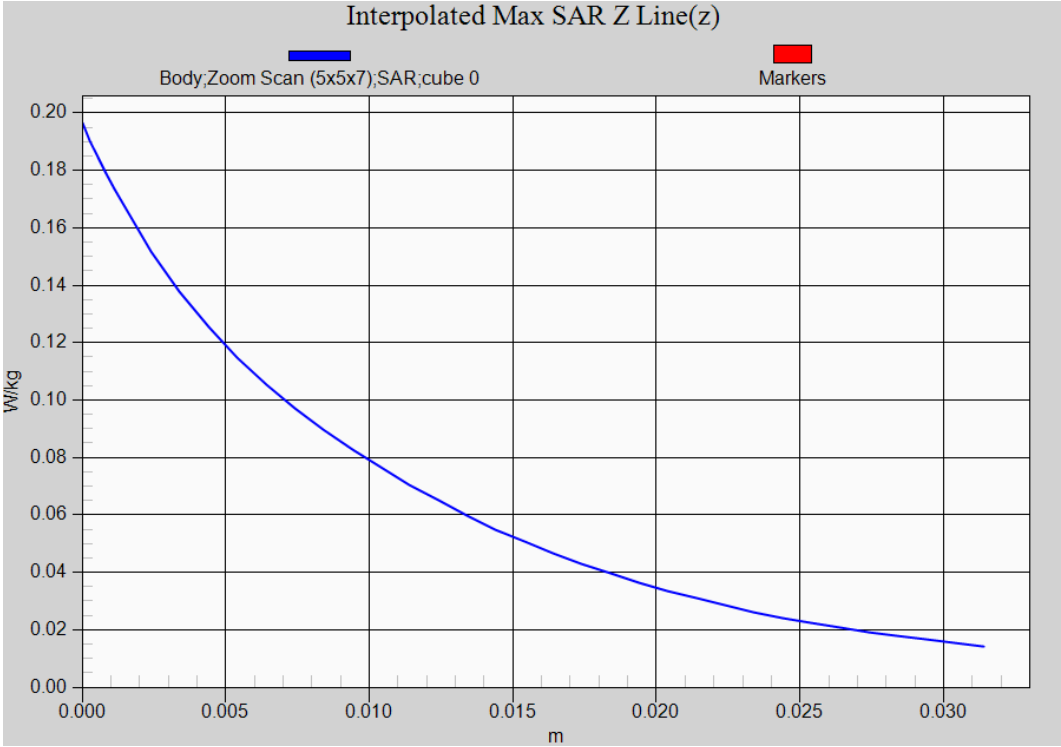
SAR(1 g) = 0.121 W/kg; SAR(10 g) = 0.073 W/kg

Maximum value of SAR (measured) = 0.164 W/kg



NR n2 DFT_S_QPSK 20M Inner 1RB EUT Left-Cheek (Head-ANT 0 0mm) Z-Axis plot

Channel: 376000



Test Laboratory: DEKRA

Date/Time: 2021/05/27

249_NRn2_DFT_S_QPSK_20M_376000_Inner_1RB-Left_Back_ANT 0 10mm**DUT: WCDMA/LTE/5G Mobile Phone; Type: EA211001**

Communication System: UID 0, 5G n2; Frequency: 1880 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.38$ S/m; $\epsilon_r = 40.74$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.9, Liquid Temperature (°C) : 21.7

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.13, 8.13, 8.13); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/Body/Area Scan (8x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.433 W/kg

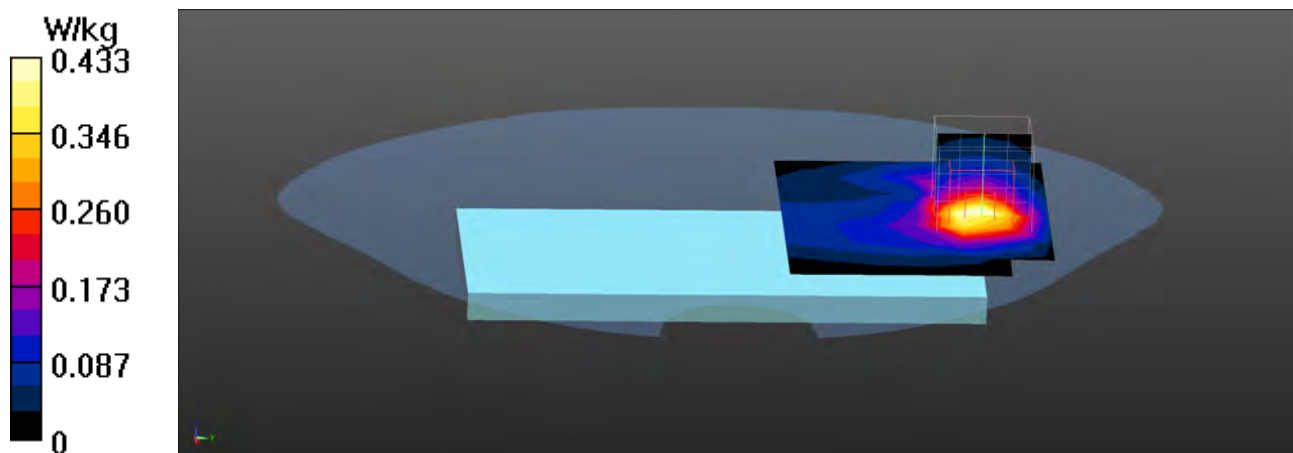
Configuration/Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.590 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.634 W/kg

SAR(1 g) = 0.364 W/kg; SAR(10 g) = 0.202 W/kg

Maximum value of SAR (measured) = 0.530 W/kg



Test Laboratory: DEKRA

Date/Time: 2021/05/27

258_NRn2_DFT_S_QPSK_20M_380000_Inner_1RB-Left_Bottom_ANT 0 10mm**DUT: WCDMA/LTE/5G Mobile Phone; Type: EA211001**

Communication System: UID 0, 5G n2; Frequency: 1900 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.41$ S/m; $\epsilon_r = 40.55$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 22.9, Liquid Temperature (°C) : 21.7

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.13, 8.13, 8.13); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/Body/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.05 W/kg

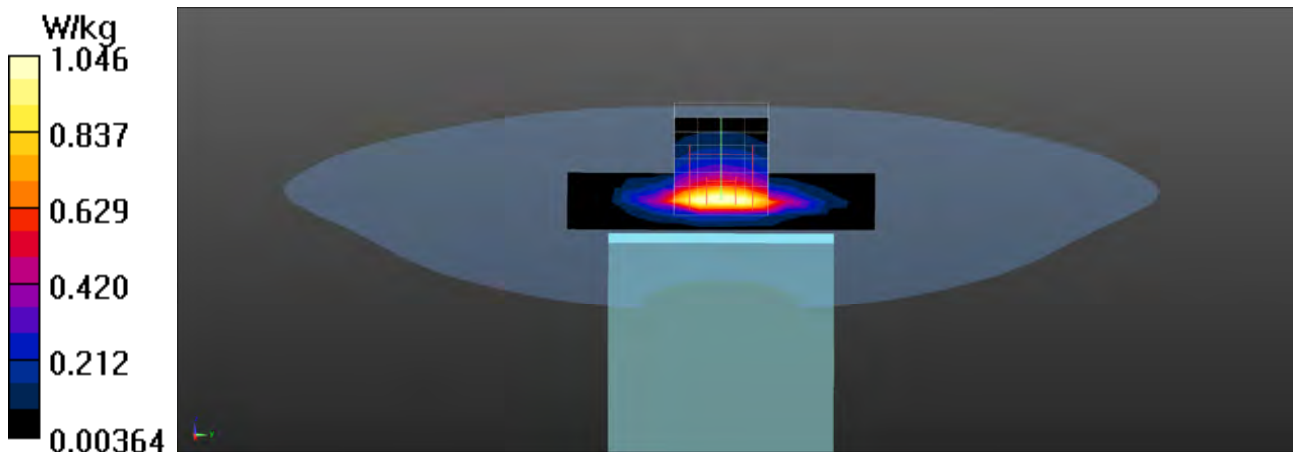
Configuration/Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 29.34 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.42 W/kg

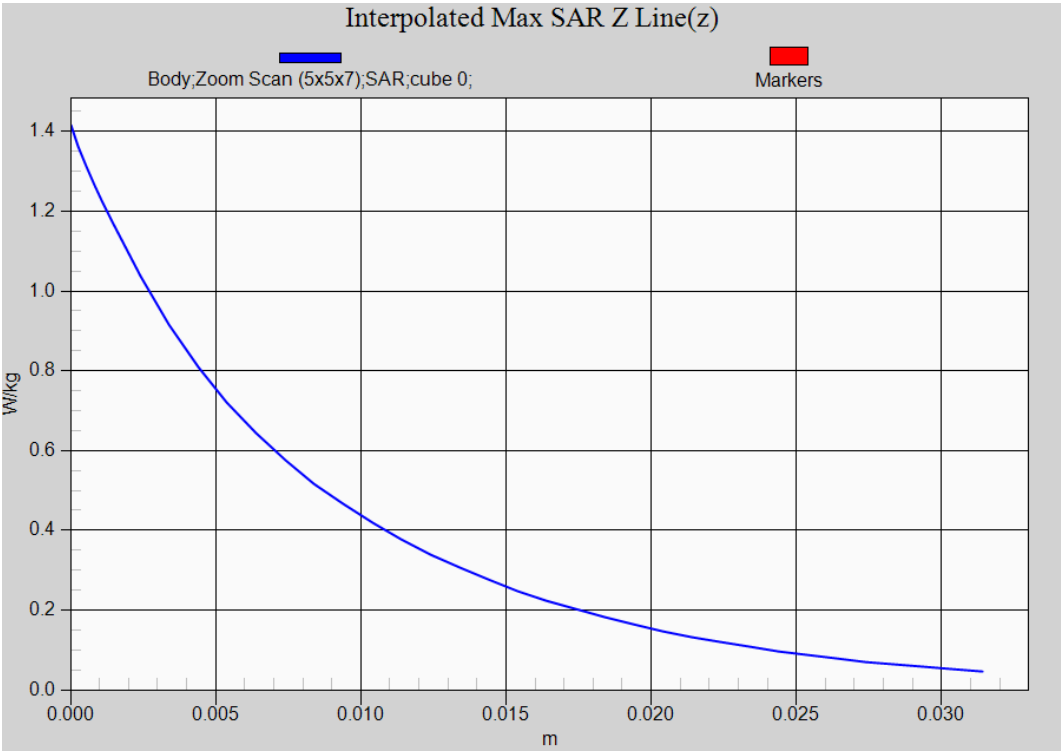
SAR(1 g) = 0.761 W/kg; SAR(10 g) = 0.398 W/kg

Maximum value of SAR (measured) = 1.18 W/kg



NR n2 DFT_S_QPSK 20M Inner 1RB- Left EUT Bottom (Hotspot & Body-worn-ANT 0 10mm), Z-Axis plot

Channel: 380000



Test Laboratory: DEKRA

Date/Time: 2021/06/04

379_NRn5_DFT_S_QPSK_15k_20M_167800_Inner_1RB_Right-Cheek_ANT 2 0mm**DUT: WCDMA/LTE/5G Mobile Phone; Type: EA211001**

Communication System: UID 0, 5G n5; Frequency: 839 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 839$ MHz; $\sigma = 0.91$ S/m; $\epsilon_r = 41.6$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature (°C) : 23.4, Liquid Temperature (°C) : 22.3

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(9.99, 9.99, 9.99); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/Body/Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.46 W/kg

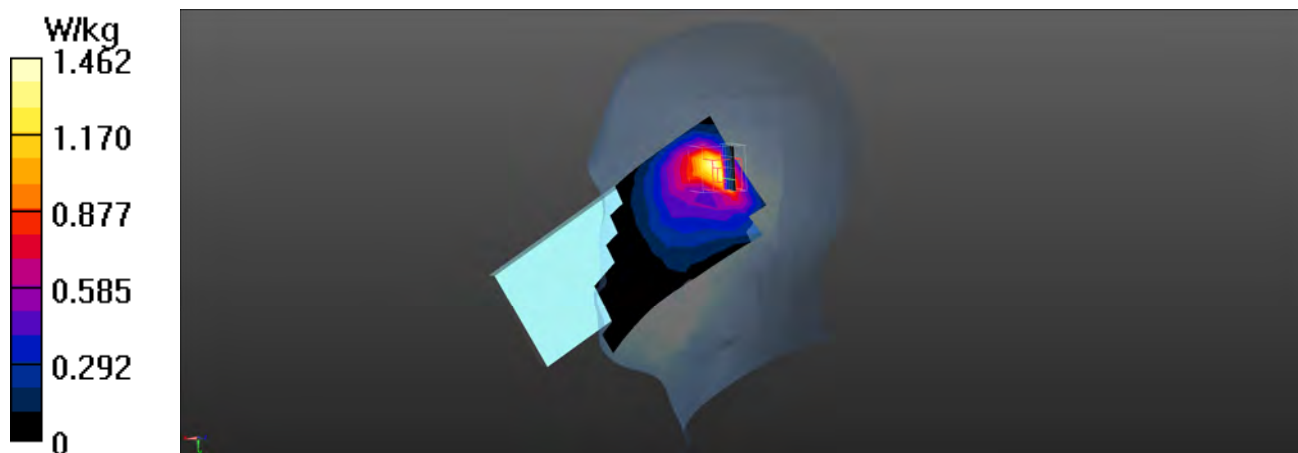
Configuration/Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 28.23 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.73 W/kg

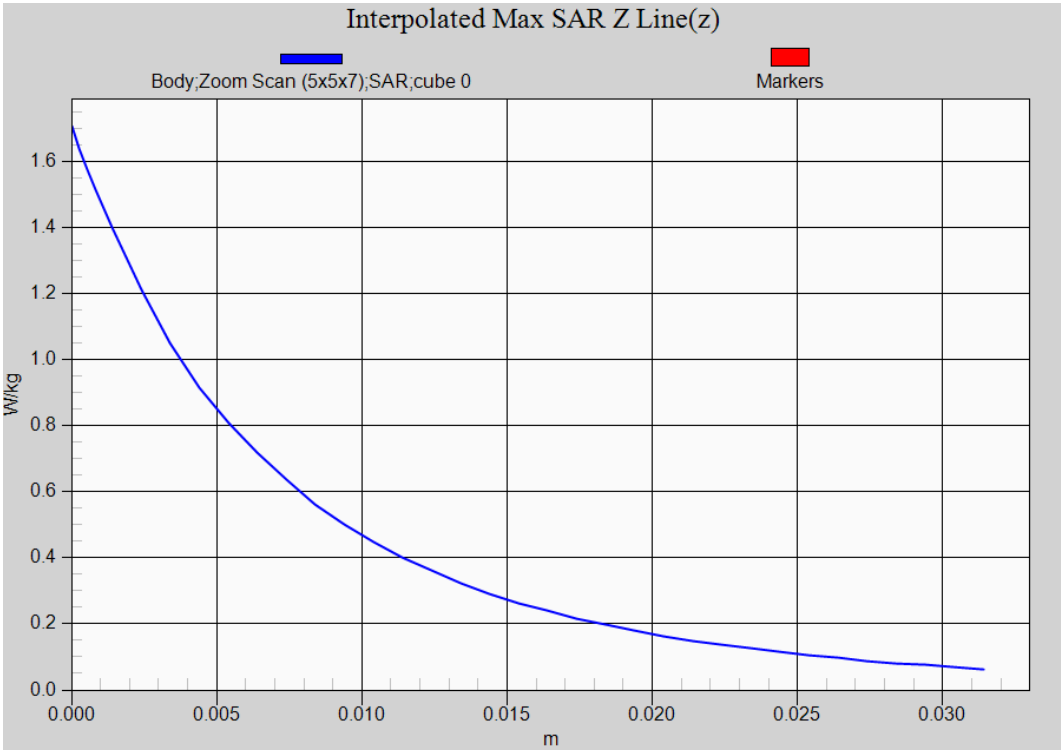
SAR(1 g) = 0.892 W/kg; SAR(10 g) = 0.489 W/kg

Maximum value of SAR (measured) = 1.42 W/kg



NR n5 DFT_S_QPSK 20M Inner 1RB EUT Right-Cheek (Head-ANT 2 0mm) Z-Axis plot

Channel: 167800



Test Laboratory: DEKRA

Date/Time: 2021/06/04

349_NRn5_DFT_S_QPSK_20M_167800_Inner_1RB_Front_ANT 2 10mm**DUT: WCDMA/LTE/5G Mobile Phone; Type: EA211001**

Communication System: UID 0, 5G n5; Frequency: 839 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 839$ MHz; $\sigma = 0.91$ S/m; $\epsilon_r = 41.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 23.4, Liquid Temperature (°C) : 22.3

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(9.99, 9.99, 9.99); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/Body/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.370 W/kg

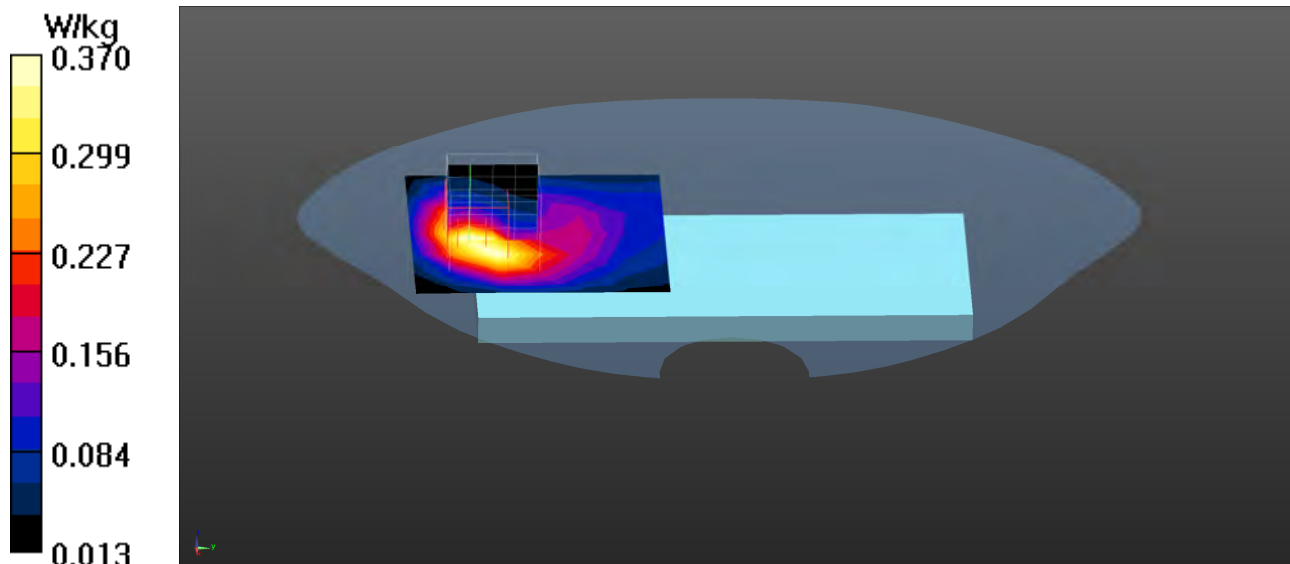
Configuration/Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.60 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.506 W/kg

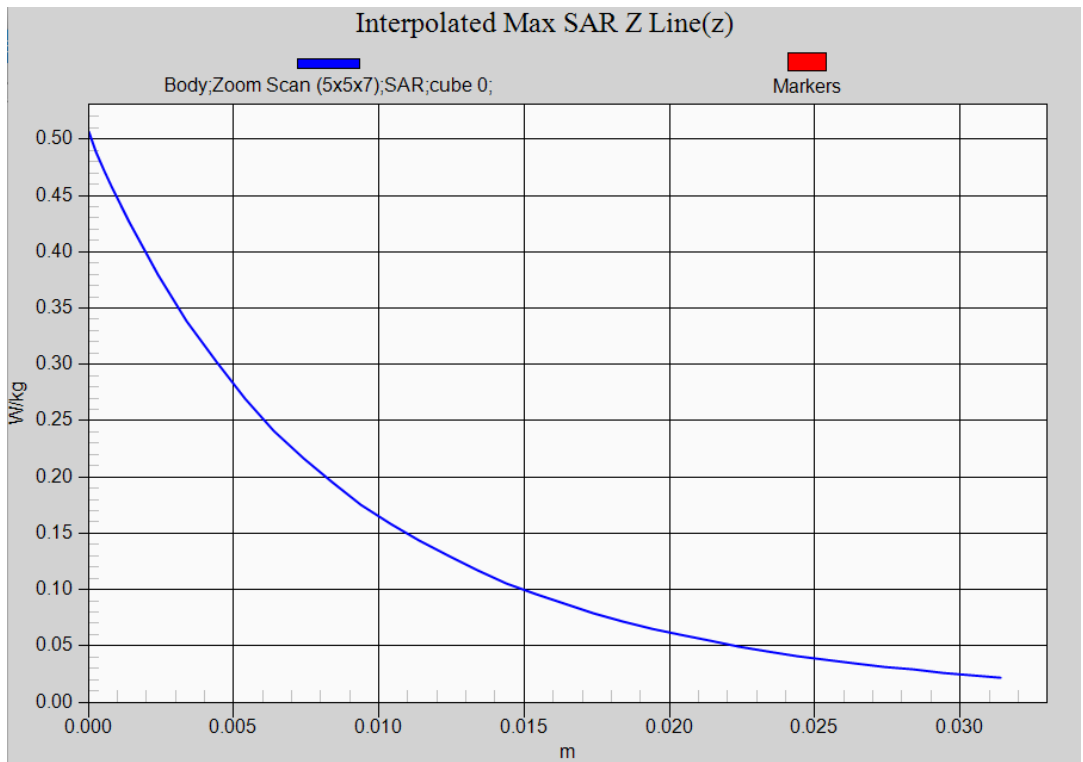
SAR(1 g) = 0.290 W/kg; SAR(10 g) = 0.164 W/kg

Maximum value of SAR (measured) = 0.417 W/kg



**NR n5 DFT_S_QPSK 20M Inner 1RB EUT Front (Hotspot & Body-worn-ANT 2 10mm)
Z-Axis plot**

Channel: 167800



Test Laboratory: DEKRA

Date/Time: 2021/05/26

206_NRn66_DFT_S_QPSK_40M_346000_Inner_1RB_Left-Cheek_ANT 0 0mm**DUT: WCDMA/LTE/5G Mobile Phone; Type: EA211001**

Communication System: UID 0, 5G n66; Frequency: 1730 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 1730$ MHz; $\sigma = 1.34$ S/m; $\epsilon_r = 40.44$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature (°C) : 23.5, Liquid Temperature (°C) : 22.2

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.35, 8.35, 8.35); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/Body/Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.125 W/kg

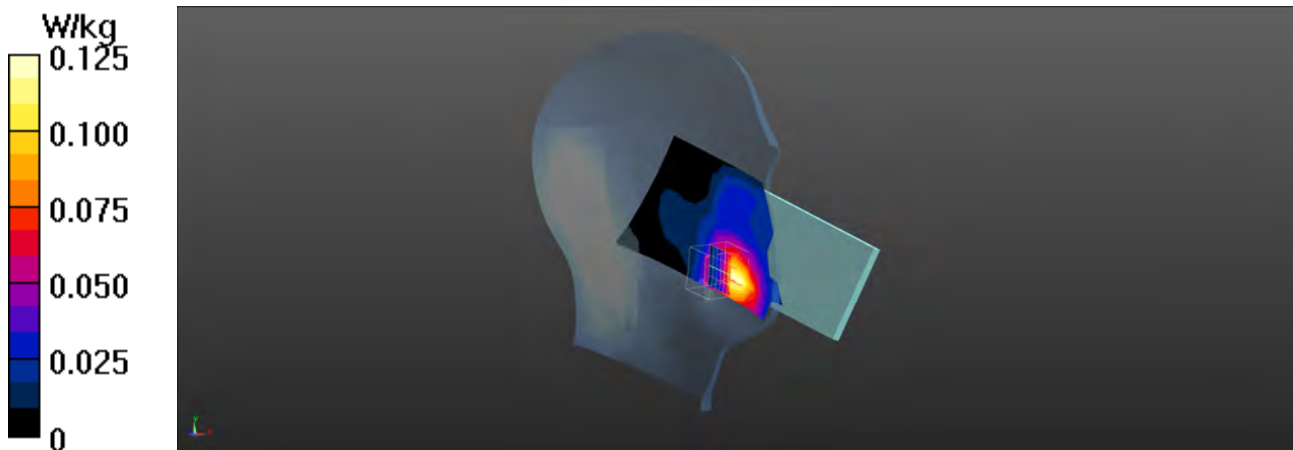
Configuration/Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.099 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.144 W/kg

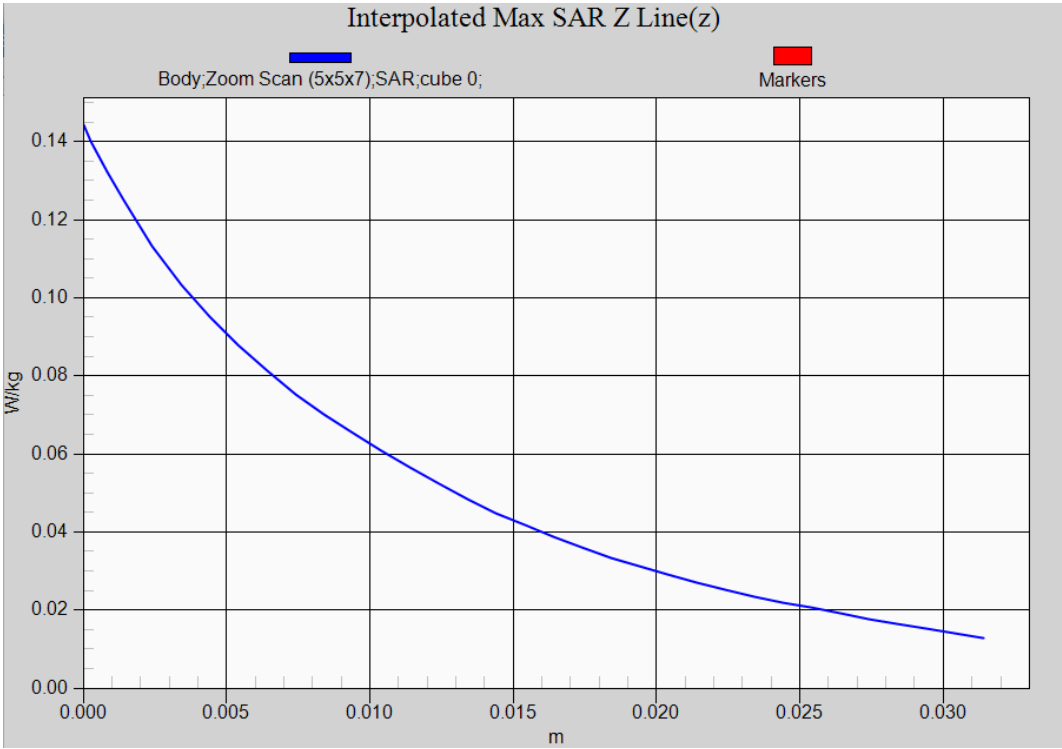
SAR(1 g) = 0.093 W/kg; SAR(10 g) = 0.059 W/kg

Maximum value of SAR (measured) = 0.123 W/kg



NR n66 DFT_S_QPSK 40M Inner 1RB EUT Left-Cheek (Head-ANT 0 0mm) Z-Axis plot

Channel: 346000



Test Laboratory: DEKRA

Date/Time: 2021/05/26

250_NRn66_DFT_S_QPSK_40M_346000_Inner_1RB-Left_Back_ANT 0 10mm**DUT: WCDMA/LTE/5G Mobile Phone; Type: EA211001**

Communication System: UID 0, 5G n66; Frequency: 1730 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 1730$ MHz; $\sigma = 1.34$ S/m; $\epsilon_r = 40.44$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 23.5, Liquid Temperature (°C) : 22.2

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.35, 8.35, 8.35); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/Body/Area Scan (8x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.362 W/kg

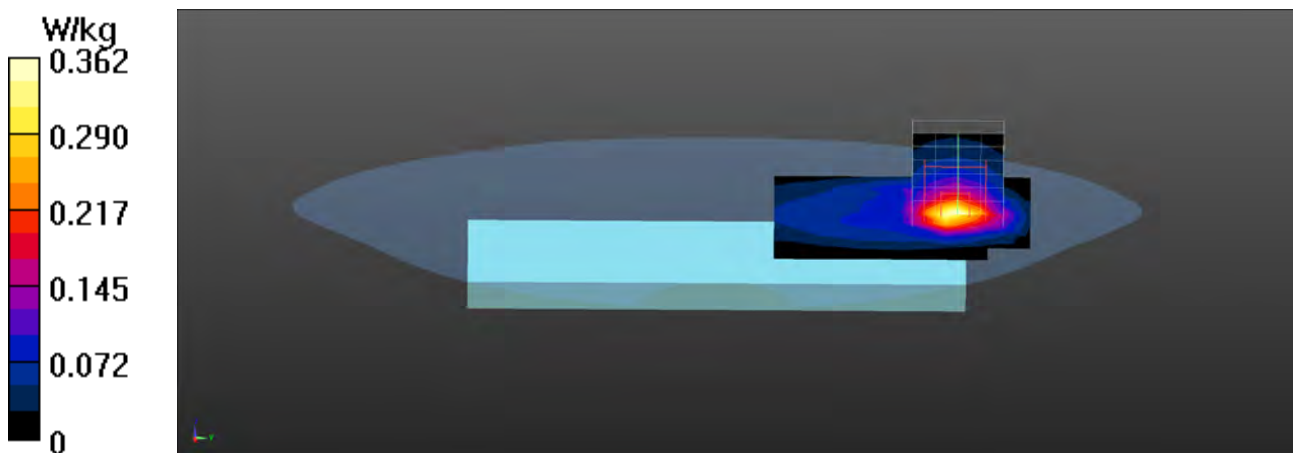
Configuration/Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.925 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.463 W/kg

SAR(1 g) = 0.265 W/kg; SAR(10 g) = 0.147 W/kg

Maximum value of SAR (measured) = 0.391 W/kg



Test Laboratory: DEKRA

Date/Time: 2021/05/26

254_NRn66_DFT_S_QPSK_40M_346000_Inner_1RB-Left_Bottom_ANT 0 10mm**DUT: WCDMA/LTE/5G Mobile Phone; Type: EA211001**

Communication System: UID 0, 5G n66; Frequency: 1730 MHz;

Communication System PAR: 0 dB

Medium parameters used: $f = 1730$ MHz; $\sigma = 1.34$ S/m; $\epsilon_r = 40.44$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature (°C) : 23.5, Liquid Temperature (°C) : 22.2

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3979; ConvF(8.35, 8.35, 8.35); Calibrated: 2020/11/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2020/11/24
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Configuration/Body/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.566 W/kg

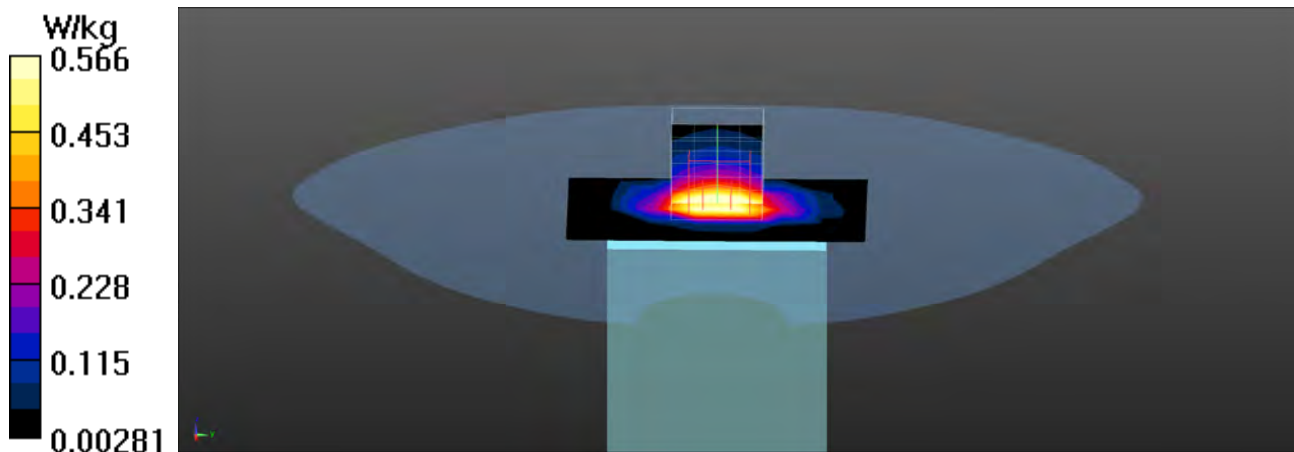
Configuration/Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.99 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.907 W/kg

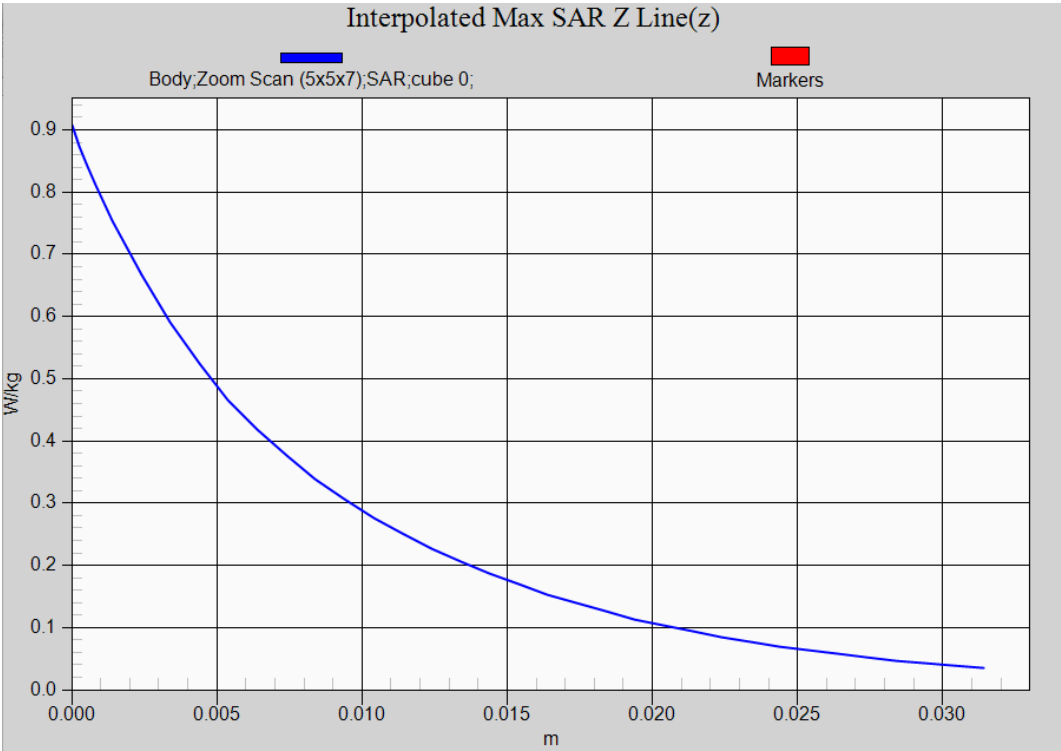
SAR(1 g) = 0.493 W/kg; SAR(10 g) = 0.260 W/kg

Maximum value of SAR (measured) = 0.754 W/kg



NR n66 DFT_S_QPSK 40M Inner 1RB-Left EUT Bottom (Hotspot & Body-worn-ANT 0 10mm) Z-Axis plot

Channel: 346000





Appendix C. Probe Calibration Data

Object: EX3DV4 - SN:3979



Accredited by the Swiss Accreditation Service (SAS)
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 Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Client **DEKRA (Auden)**

Certificate No: **EX3-3979_Nov20**

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
 Calibration procedure for dosimetric E-field probes**

Calibration date: **November 25, 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: CC2552 (20x)	31-Mar-20 (No. 217-03106)	Apr-21
DAE4	SN: 660	27-Dec-19 (No. DAE4-660_Dec19)	Dec-20
Reference Probe ES3DV2	SN: 3013	31-Dec-19 (No. ES3-3013_Dec19)	Dec-20
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-20)	In house check: Jun-22
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-20)	In house check: Jun-22
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-20)	In house check: Jun-22
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-20)	In house check: Jun-22
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-20)	In house check: Oct-21

	Name	Function	Signature
Calibrated by:	Michael Weber	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	
This calibration certificate shall not be reproduced except in full without written approval of the laboratory.			

Issued: December 1, 2020



Accredited by the Swiss Accreditation Service (SAS)

Accreditation No.: **SCS 0108**

The Swiss Accreditation Service is one of the signatories to the EA
 Multilateral Agreement for the recognition of calibration certificates

Glossary:

TSL	tissue simulating liquid
NORM _{x,y,z}	sensitivity in free space
ConvF	sensitivity in TSL / NORM _{x,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 ϕ	ϕ rotation around probe axis
Polarization ϑ	ϑ 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:

- 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
- 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
- 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
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- NORM_{x,y,z}**: Assessed for E-field polarization $\vartheta = 0$ ($f \leq 900$ MHz in TEM-cell; $f > 1800$ MHz: R22 waveguide). NORM_{x,y,z} are only intermediate values, i.e., the uncertainties of NORM_{x,y,z} does not affect the E²-field uncertainty inside TSL (see below ConvF).
- NORM(f)_{x,y,z}** = NORM_{x,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.
- DCP_{x,y,z}**: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). 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
- A_{x,y,z}; B_{x,y,z}; C_{x,y,z}; D_{x,y,z}; VR_{x,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 NORM_{x,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 NORM_x (no uncertainty required).

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3979

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ($\mu\text{V}/(\text{V/m})^2$) ^A	0.46	0.49	0.48	$\pm 10.1 \%$
DCP (mV) ^B	98.3	100.2	101.9	

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dB $\sqrt{\mu\text{V}}$	C	D dB	VR mV	Max dev.	Unc ^E (k=2)
0	CW	X	0.0	0.0	1.0	0.00	159.4	$\pm 3.5 \%$	$\pm 4.7 \%$
		Y	0.0	0.0	1.0		161.9		
		Z	0.0	0.0	1.0		158.5		

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 Numerical linearization parameter: uncertainty not required.

^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3979

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	-45.6
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.

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3979

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
450	43.5	0.87	10.58	10.58	10.58	0.14	1.30	± 13.3 %
750	41.9	0.89	10.21	10.21	10.21	0.60	0.90	± 12.0 %
835	41.5	0.90	9.99	9.99	9.99	0.51	0.81	± 12.0 %
900	41.5	0.97	9.73	9.73	9.73	0.50	0.80	± 12.0 %
1450	40.5	1.20	8.55	8.55	8.55	0.39	0.80	± 12.0 %
1640	40.2	1.31	8.48	8.48	8.48	0.37	0.80	± 12.0 %
1750	40.1	1.37	8.35	8.35	8.35	0.30	0.80	± 12.0 %
1950	40.0	1.40	8.13	8.13	8.13	0.37	0.80	± 12.0 %
2300	39.5	1.67	7.69	7.69	7.69	0.30	0.86	± 12.0 %
2450	39.2	1.80	7.48	7.48	7.48	0.41	0.80	± 12.0 %
2600	39.0	1.96	7.40	7.40	7.40	0.41	0.81	± 12.0 %
3300	38.2	2.71	7.03	7.03	7.03	0.40	1.30	± 13.1 %
3500	37.9	2.91	6.97	6.97	6.97	0.40	1.30	± 13.1 %
3700	37.7	3.12	6.90	6.90	6.90	0.35	1.30	± 13.1 %
5250	35.9	4.71	4.85	4.85	4.85	0.40	1.80	± 13.1 %
5600	35.5	5.07	4.50	4.50	4.50	0.40	1.80	± 13.1 %
5800	35.3	5.27	4.47	4.47	4.47	0.40	1.80	± 13.1 %

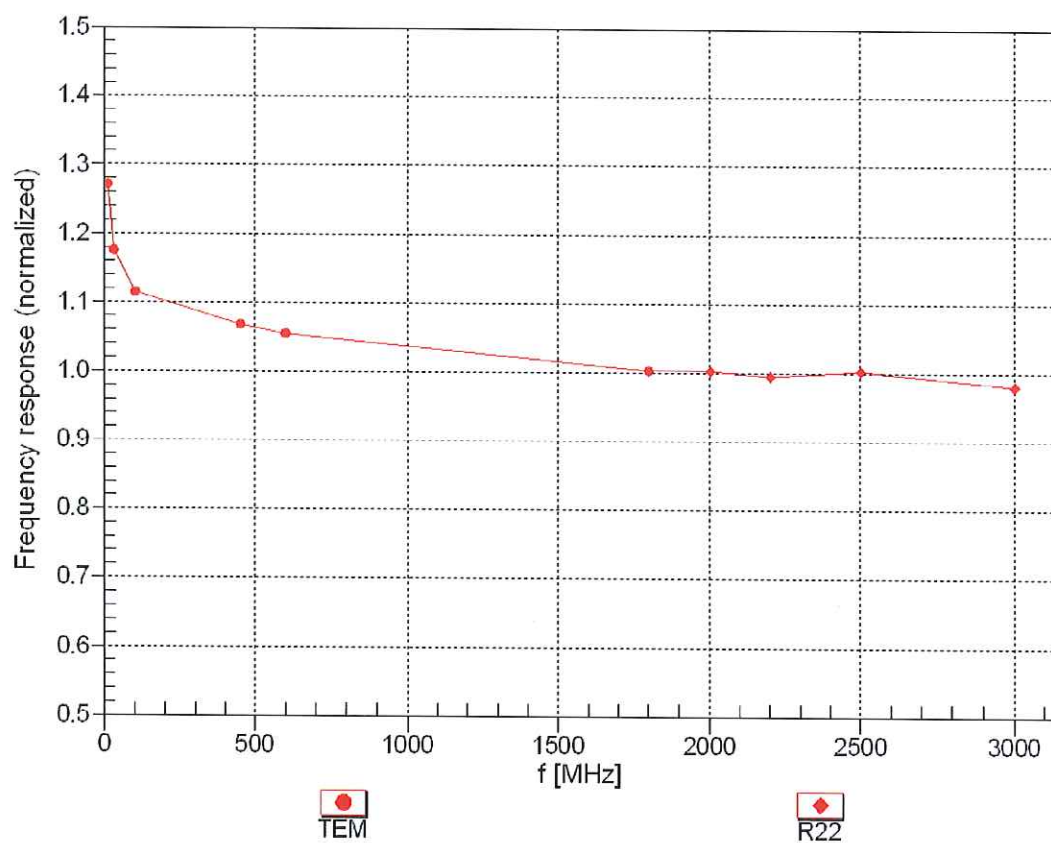
^C Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 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 (ϵ and σ) 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 (ϵ and σ) 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

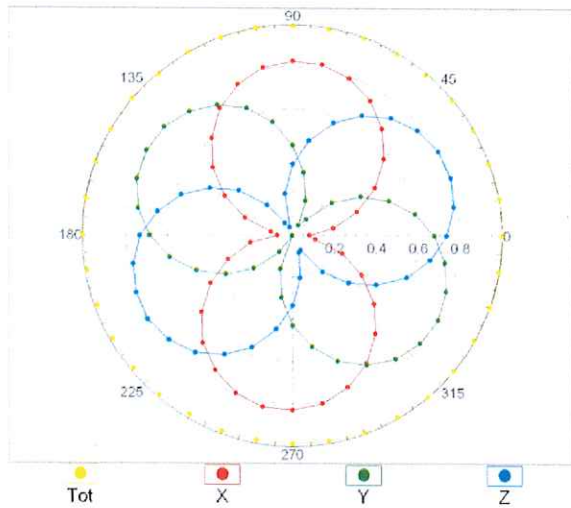
(TEM-Cell:ifi110 EXX, Waveguide: R22)



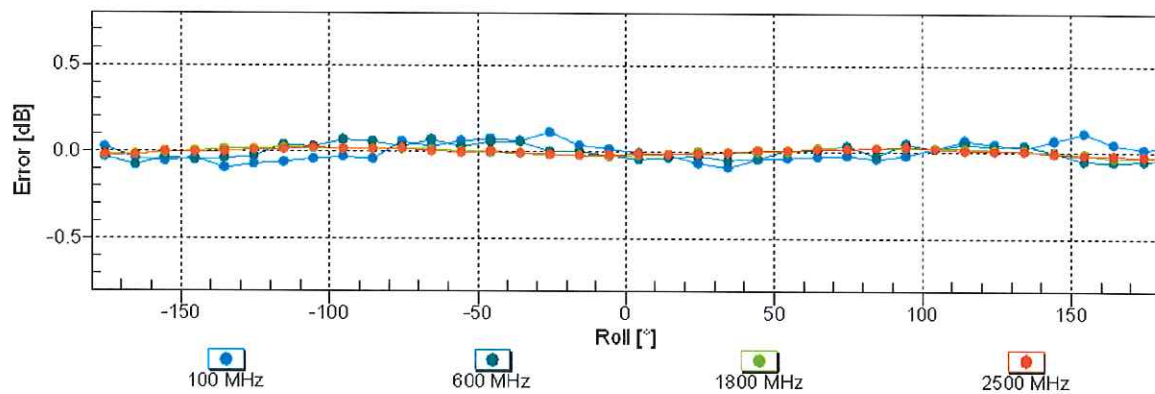
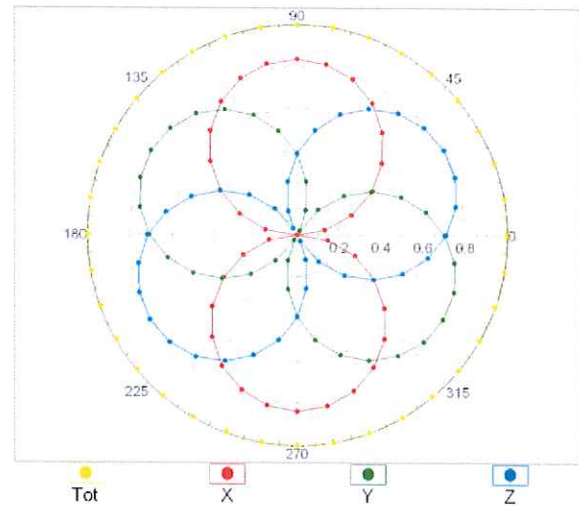
Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ ($k=2$)

Receiving Pattern (ϕ), $\theta = 0^\circ$

f=600 MHz, TEM

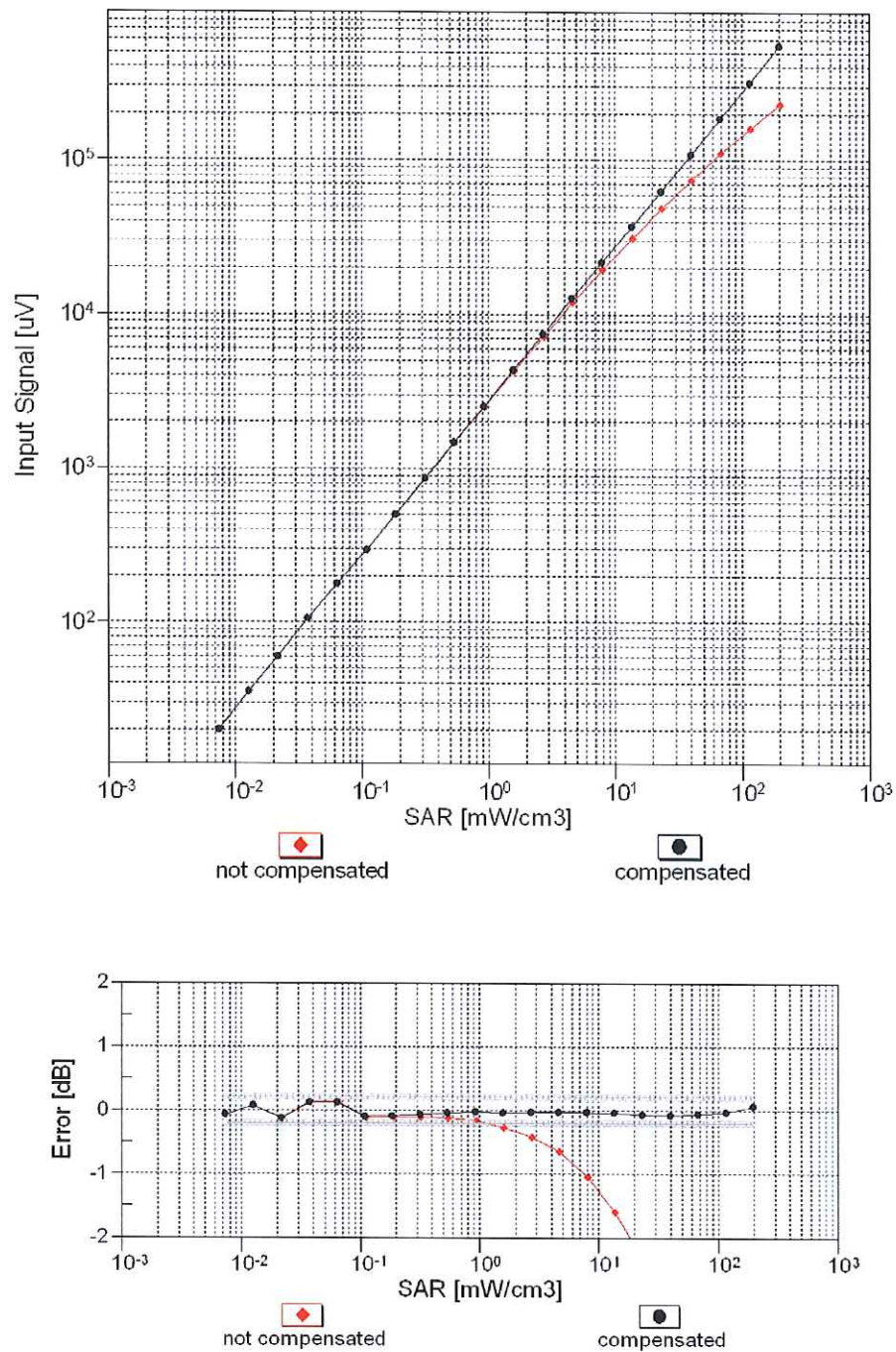


f=1800 MHz, R22



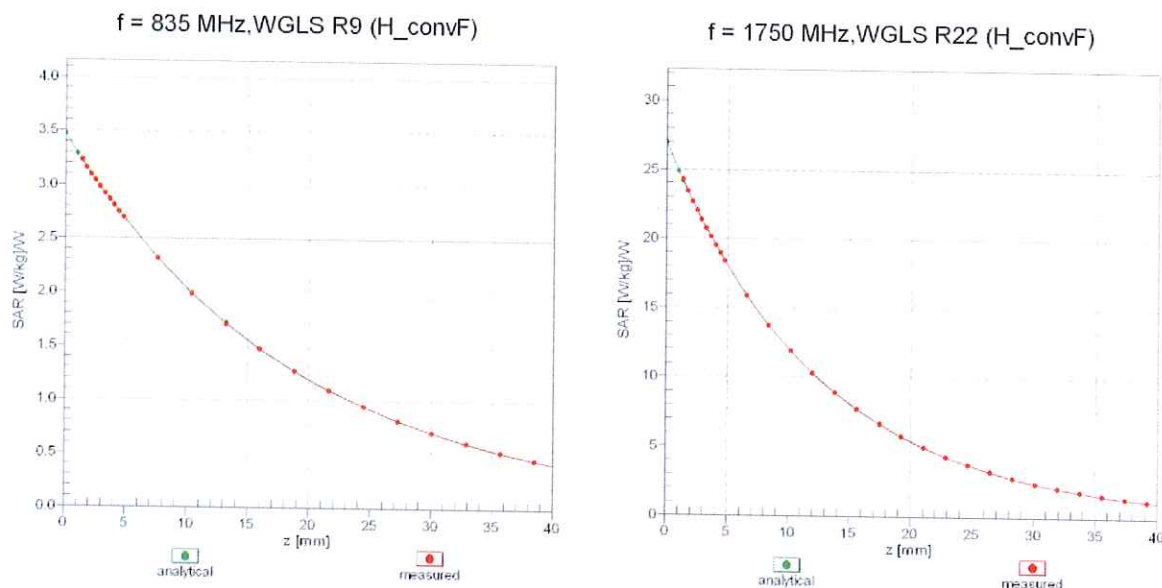
Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)

Dynamic Range $f(\text{SAR}_{\text{head}})$ (TEM cell , $f_{\text{eval}} = 1900 \text{ MHz}$)



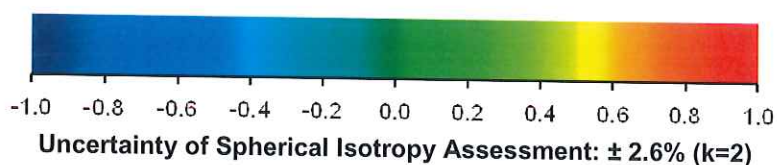
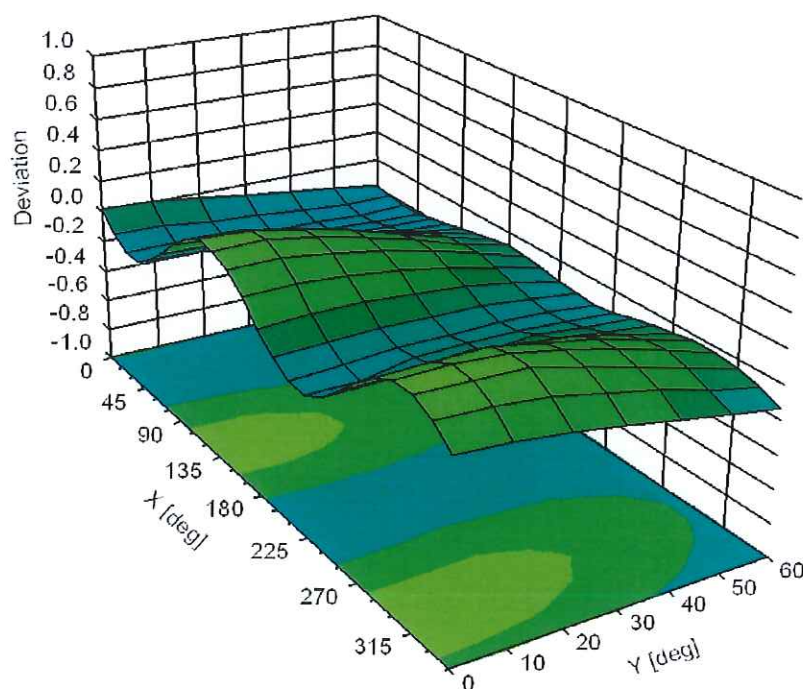
Uncertainty of Linearity Assessment: $\pm 0.6\%$ ($k=2$)

Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (ϕ, θ), $f = 900 \text{ MHz}$



Uncertainty of Spherical Isotropy Assessment: $\pm 2.6\%$ ($k=2$)



Appendix D. Dipole Calibration

Instrument	Manufacturer	Model No.	Serial No.
Reference Dipole 750MHz	Speag	D750V3	1031
Reference Dipole 1750MHz	Speag	D1750V2	1113
Reference Dipole 1950MHz	Speag	D1950V3	1213
Reference Dipole 2300MHz	Speag	D2300V2	1045
Reference Dipole 2450MHz	Speag	D2450V2	930
Reference Dipole 5GHz	Speag	D5GHzV2	1041



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 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**
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 $(22 \pm 3)^\circ\text{C}$ and humidity $< 70\%$.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter 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

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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,y,z
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

- 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
- 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
- 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
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

- 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%.

Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	750 MHz $\pm$ 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.9	0.89 mho/m
Measured Head TSL parameters	(22.0 $\pm$ 0.2) °C	42.1 $\pm$ 6 %	0.91 mho/m $\pm$ 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.18 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	8.58 W/kg $\pm$ 17.0 % (k=2)

SAR averaged over 10 cm³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	1.42 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	5.61 W/kg $\pm$ 16.5 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	53.8 Ω - 1.9 j Ω
Return Loss	- 27.8 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.033 ns
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After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
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DASY5 Validation Report for Head TSL

Date: 27.05.2020

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN:1031

Communication System: UID 0 - CW; Frequency: 750 MHz

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.91 \text{ S/m}$; $\epsilon_r = 42.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN7349; ConvF(10.07, 10.07, 10.07) @ 750 MHz; Calibrated: 31.12.2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 27.12.2019
- Phantom: Flat Phantom 4.9 (front); Type: QD 00L P49 AA; Serial: 1001
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Dipole Calibration for Head Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 60.01 V/m; Power Drift = -0.02 dB

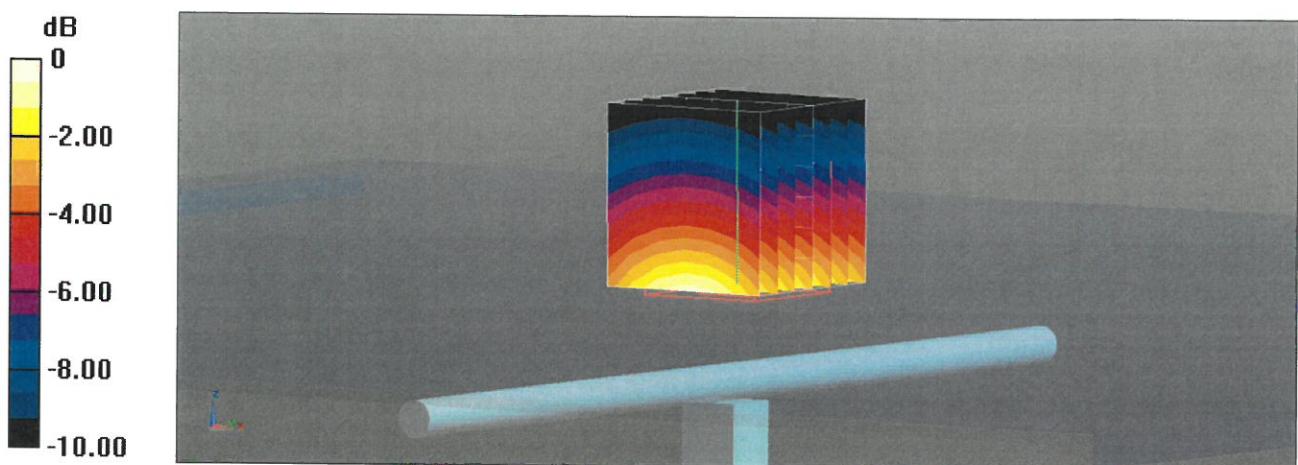
Peak SAR (extrapolated) = 3.29 W/kg

SAR(1 g) = 2.18 W/kg; SAR(10 g) = 1.42 W/kg

Smallest distance from peaks to all points 3 dB below = 20 mm

Ratio of SAR at M2 to SAR at M1 = 66%

Maximum value of SAR (measured) = 2.91 W/kg



0 dB = 2.91 W/kg = 4.64 dBW/kg