SAR TEST REPORT

ISSUED BY
Shenzhen BALUN Technology Co., Ltd.

FOR

Mobile Phone

ISSUED TO
Realme Chongqing Mobile Telecommunications Corp., Ltd.

No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China

Tested by: Xu Rui
Date: Jan. 20, 2022

Approved by: Wei Yanquan (Chief Engineer)
Date: Jan. 20, 2022

Report No.:	BL-SZ2210074-701
EUT Name:	Mobile Phone
Model Name:	RMX3388
Brand Name:	realme
FCC ID:	2AUYFRMX3388
Test Standard:	FCC 47 CFR Part 2.1093 (refer to section 3.1)
Maximum SAR:	Head (1 g): 1.152 W/kg Body (1 g): 0.522 W/kg Hotspot (1 g): 0.898 W/kg Specific (10g): 1.921 W/kg
Test Conclusion:	Pass
Test Date:	Feb. 24, 2021 ~ Mar. 13, 2021
Date of Issue:	Jan. 20, 2022

Block B, 1st FL,Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong, P. R. China 518055
TEL: +86-755-66850100,FAX: +86-755-61824271
Email: qc@baluntek.com
www.baluntek.com

Revision History

Version	Issue Date	Revisions Content
Rev. 01	Jan. 20, 2022	Initial Issue

TABLE OF CONTENTS

1 GENERAL INFORMATION

1.1 Identification of the Testing Laboratory

Company Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100
Fax Number	+86 755 6182 4271

1.2 Identification of the Responsible Testing Location

Test Location	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organizatin accredited by FCC as a accredited testing laboratory. The designation number is CN1196.
Description	All measurement facilities used to collect the measurement data are located at Block B, FL 1, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China 518055

1.3 Test Environment Condition

Ambient Temperature	21℃ to 23℃
Ambient Relative Humidity	36% to 48%
Ambient Pressure	100 KPa to 102 KPa

1.4 Announce

(1) The test report reference to the report template version v2.2.

(2) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.

(3) The test report is invalid if there is any evidence and/or falsification.

(4) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.

(5) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.

(6) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.

(7) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China

2.2 Manufacturer Information

Manufacturer	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China

2.3 Factory Information

Factory	N/A
Address	N/A

2.4 General Description for Equipment under Test (EUT)

EUT Name	Mobile Phone
Model Name Under Test	RMX3388
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	2AA774
Software Version	realme UI V2.0
Dimensions (Approx.)	162.5*74.8*8.5 mm
Weight (Approx.)	188g

2.5 Ancillary Equipment

Ancillary Equipment 1	Li-Polymer Battery 1	
	Brand Name	realme
	Model No.	BLP803
	Serial No.	N/A
	Capacitance	Rated: 4890mAh/18.92Wh Typical: 5000mAh/19.35Wh
	Rated Voltage	3.87 V
	Limited Voltage	4.45 V
	Manufacturer	Sunwoda Electronic CO., LTD.
Ancillary Equipment 2	Li-Polymer Battery (alternative) 3	
	Brand Name	realme
	Model No.	BLP803
	Serial No.	N/A
	Capacitance	Rated: 4890mAh/18.92Wh Typical: 5000mAh/19.35Wh
	Rated Voltage	3.87 V
	Limited Voltage	4.45 V
	Manufacturer	Huizhou Desay Battery Co., Ltd
Note: The EUT has three Batterys, they are same with electrical parameters, but only differ in Manufacturer and battery cell. By comparing the test data of three Batteries, battery 1 can produce a more conservative SAR values. The battery of the Manufacturer is Sunwoda Electronic CO., LTD. as the main for test in this report.		

2.6 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EDGE 850/1900 MHz 3G Network WCDMA/HSDPA/HSUPA/HSPA+ Band 2/4/5 4G Network LTE FDD Band 2/4/5/7/12/17/26/66 LTE TDD Band 38/41 LTE CA Uplink (UL): CA_7C, CA_38C, CA_41C 5G Network SA: NR n5/n7/n38/n41 Bluetooth (BR+EDR+BLE) 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40), 802.11ac(VHT20/40) 5G WIFI 802.11a, 802.11n(HT20/40) and 802.11ac(VHT20/40/80) U-NII-1/2A/2C/3, GPS, GLONASS, BDS, NFC
Note : The EUT is a mobile phone, which supports dual SIM card under the same transceiver. Each SIM supports GSM, WCDMA, LTE and NR, and both SIM share the same transmitting electro circuit, NV parameters, so only SIM1 was tested in this report.	

The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	GSM, WCDMA, LTE, NR, 2.4G WLAN, 5G WLAN, Bluetooth		
Frequency Range	GSM 850	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	GSM 1900	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	WCDMA Band 2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	WCDMA Band 4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	WCDMA Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	LTE Band 4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	LTE Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 7	TX: 2500 ~ 2570 MHz	RX: 2620 ~ 2690 MHz
	LTE Band 12	TX: 699 ~ 716 MHz	RX: 729 ~ 746 MHz
	LTE Band 17	TX: 704 ~ 716 MHz	RX: 734 ~ 746 MHz
	LTE Band 26	TX: 814 ~ 849 MHz	RX: 859 ~ 894 MHz
	LTE Band 38	TX: 2570 ~ 2620 MHz	RX: 2570 ~ 2620 MHz
	LTE Band 41	TX: 2496 ~ 2690 MHz	RX: 2496 ~ 2690 MHz
	LTE Band 66	TX: 1710 ~ 1780 MHz	RX: 2110 ~ 2180 MHz
	802.11b/g /n(HT20/HT40) /ac(VHT20/VHT40)	2412 ~ 2462 MHz	
	802.11a /n(HT20/HT40) /ac(VHT20/VHT40/ VHT80)	5150 ~ 5250 MHz	
		5250 ~ 5350 MHz	
		5470 ~ 5725 MHz	
		5725 ~ 5850 MHz	
	Bluetooth	2402 ~ 2480 MHz	
Antenna Type	WWAN: PIFA Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna		
DTM	N/A		

Hotspot Function	Support	
Power Reduction	Support	
Exposure Category	General Population/Uncontrolled exposure	
EUT Stage	Portable Device	
Product	Type	
	☒ Production unit	☐ Identical prototype

Note:
1. The device utilizes independent power reduction mechanisms for SAR compliance for the 2/3/4/5G transmitter for held-to-ear exposure conditions.
2. The device utilizes independent power reduction mechanisms for SAR compliance for the 2/3/4/5G transmitter for near to body exposure conditions.
3. The reduction power details please refer section 8.7.

3 SUMMARY OF TEST RESULT

3.1 Test Standards

No.	Identity	Document Title
1	FCC 47 CFR Part 2.1093	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	ANSI/IEEE C95.1-1999	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz
3	IEEE Std. 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
4	FCC KDB 447498 D01 v06	Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies
5	FCC KDB 941225 D01 v03r01	3G SAR MEAUREMENT PROCEDURES
6	FCC KDB 941225 D05 v02r05	SAR Evaluation Considerations for LTE Devices
7	FCC KDB 941225 D06 v02r01	SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities
8	FCC KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
9	FCC KDB 865664 D02 v01r02	RF Exposure Reporting
10	FCC KDB 648474 D04 v01r03	SAR Evaluation Considerations for Wireless Handsets
11	KDB 248227 D01 v02r02	SAR Guidance for IEEE 802.11 (Wi-Fi) Transmitters

Note: Compared with the EUT of test report BL-SZ2120324-701, the changes of the EUT of this report as below:

1. Difference model name and CPU model name.
2. Adds 2 adapters, LED, 2 DC motors, and 1 speaker.
3. Remove a battery (Manufacturer: PT. BATTERY TECHNOLOGY INDONESIA).

Other hardware circuit and software are the same as EUT referred in test report BL-SZ2120324-701. Therefore, all test datas please refer to report BL-SZ2120324-701, which was issued by Shenzhen BALUN Technology Co., Ltd. on Mar. 25, 2021.

3.2 Device Category and SAR Limit

This device belongs to portable device category because its radiating structure is allowed to be used within 20 centimeters of the body of the user.

Limit for General Population/Uncontrolled exposure should be applied for this device, it is 1.6 W/kg as averaged over any 1 gram of tissue.

Table of Exposure Limits:

Body Position	SAR Value (W/Kg)	
	General Population/ Uncontrolled Exposure	Occupational/ ControlledExposure
Whole-Body SAR (averaged over the entire body)	0.08	0.4
Partial-Body SAR (averaged over any 1 gram of tissue)	1.60	8.0
SAR for hands, wrists, feet and ankles (averaged over any 10 grams of tissue)	4.0	20.0

NOTE:

General Population/Uncontrolled Exposure: Locations where there is the exposure of individuals who have no knowledge or control of their exposure. General population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

Occupational/Controlled Exposure: Locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

3.3 Test Result Summary

3.3.1 Highest SAR (1 g Value)

Band	Maximum Scaled SAR (W/kg)			Maximum Report SAR (W/kg)		
	Head	Body-worn Accessory	Hotspot	Head	Body-worn Accessory	Hotspot
GSM 850	0.701	0.240	0.396	**1.152**	**0.522**	**0.898**
GSM 1900	0.602	0.266	0.447			
WCDMA Band 2	0.854	0.269	0.547			
WCDMA Band 4	0.496	0.163	0.314			
WCDMA Band 5	0.825	0.178	0.197			
LTE Band 2	1.089	0.332	0.691			
LTE Band 4	0.651	0.254	0.463			
LTE Band 5	1.151	0.168	0.325			
LTE Band 7	0.798	0.183	0.331			
LTE Band 12	0.729	0.221	0.217			
LTE Band 26	1.120	0.205	0.310			
LTE Band 66	0.662	0.221	0.431			
LTE Band 38	0.286	0.095	0.120			
LTE Band 41	0.214	0.069	0.109			
NR n5	0.859	0.196	0.273			
NR n7	0.687	0.220	**0.898**			
NR n38	0.547	0.429	0.670			
NR n41	0.763	0.357	0.836			
2.4G WLAN	**1.152**	0.201	0.338			
5.2G WLAN	/	/	0.646			
5.3G WLAN	1.045	0.423	/			
5.6G WLAN	0.799	**0.522**	/			
5.8G WLAN	0.695	0.228	0.420			
Bluetooth	0.405	0.041	0.082			
Limit (W/kg)	1.6			1.6		
Verdict	PASS					

Note: This device supports both LTE Band 17 and Band 12. Since the supported frequency span for LTE Band 17 falls completely within the supports frequency span for LTE Band 12, both LTE bands have the same target power, and both LTE bands share the same transmission path; therefore, SAR was only assessed for LTE Band 12.

3.3.2 Highest Specific SAR (10 g Value)

Band	Maximum Scaled SAR (W/kg)	Maximum Report SAR (W/kg)
	Specific 10g	
GSM 1900	1.498	**1.921**
WCDMA Band 2	1.614	
WCDMA Band 4	1.281	
LTE Band 2	**1.921**	
LTE Band 4	1.680	
LTE Band 66	1.638	
n7	1.105	
n38	1.617	
n41	0.831	
5.3G WLAN	1.250	
5.6G WLAN	1.460	
Limit (W/kg)	4.0	4.0
Verdict	Pass	

3.3.3 Highest Simultaneous SAR

Position	Simultaneous Configuration	Simultaneous SAR (W/kg)	Limit (W/kg)	Verdict
Head (1g)	LTE Band 2 + 5G WIFI + Bluetooth	1.472	1.6	Pass
Body-worn Accessory (1g)	5G n38 + 5G WIFI + Bluetooth	0.989	1.6	Pass
Hotspot (1g)	5G n38 + 5G WIFI + Bluetooth	1.299	1.6	Pass
Specific (10g)	LTE Band 2 + 5G WIFI	3.179	4.0	Pass

3.4 Test Uncertainty

According to KDB 865664 D01, When the highest measured 1 g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis is not required in SAR reports submitted for equipment approval.

The maximum 1 g SAR for the EUT in this report is 1.152 W/kg, which is lower than 1.5 W/kg, so the extensive SAR measurement uncertainty analysis is not required in this report.
The maximum 10 g SAR for the EUT in this report is 1.921 W/kg, which is lower than 3.75 W/kg, so the extensive SAR measurement uncertainty analysis is not required in this report.

4 MEASUREMENT SYSTEM

4.1 Specific Absorption Rate (SAR) Definition

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

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

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

SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be related to the electrical field in the tissue by

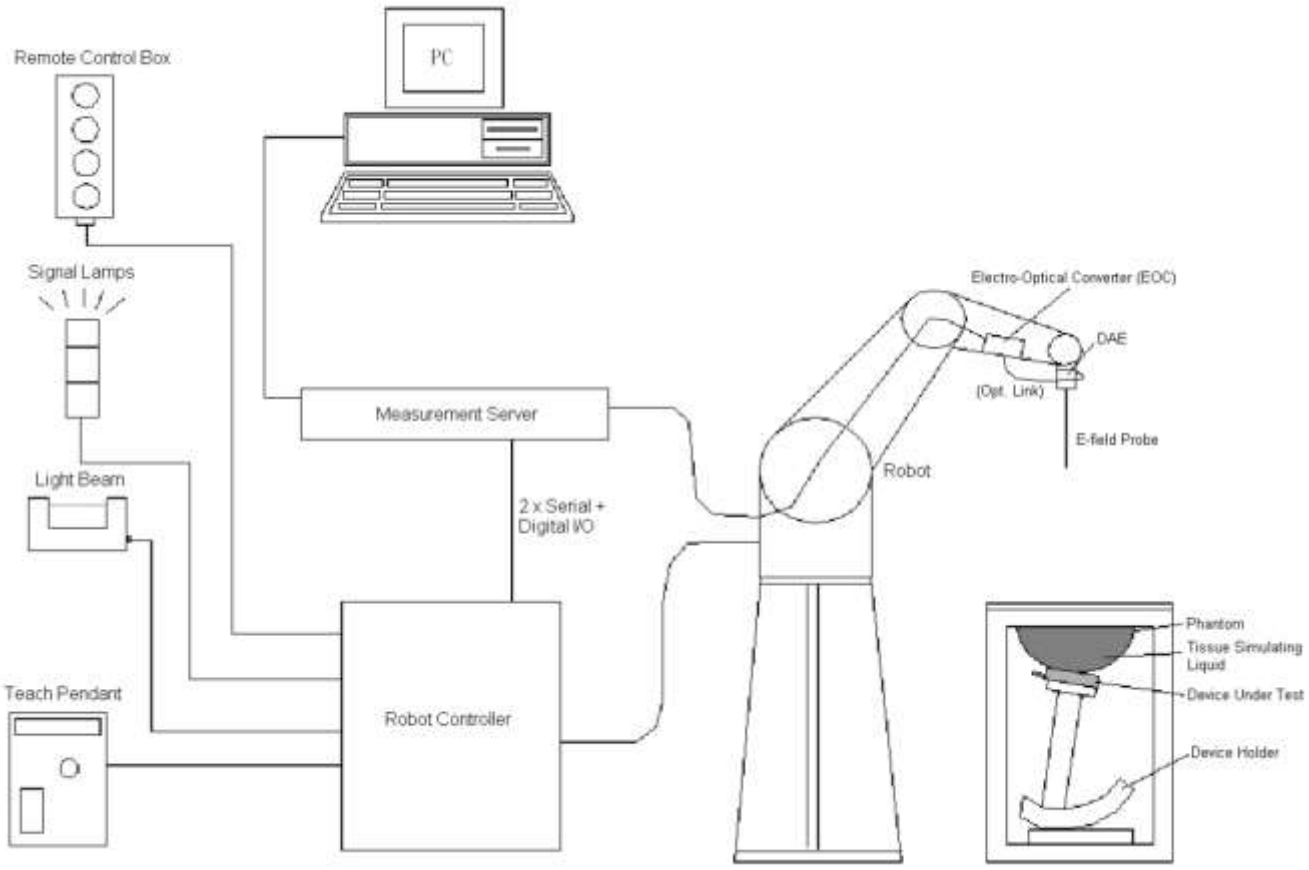
$$\mathbf{SAR} = \frac{\boldsymbol{\sigma}\mathbf{E}^2}{\boldsymbol{\rho}}$$

Where: σ is the conductivity of the tissue,

ρ is the mass density of the tissue and E is the RMS electrical field strength.

4.2 DASY SAR System

4.2.1 DASY SAR System Diagram



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

1. A standard high precision 6-axis robot (Stäubli RX family) with controller and software. An arm extension for accommodating the data acquisition electronics (DAE).
2. A dosimetric probe, i.e. an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
3. A data acquisition electronic (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.
4. A unit to operate the optical surface detector which is connected to the EOC.
5. The Electro-Optical Coupler (EOC) performs the conversion from the optical into a digital electric signal of the DAE. The EOC is connected to the DASY measurement server.
6. The DASY measurement server, which performs all real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operation.
7. DASY software and SEMCAD data evaluation software.
8. Remote control with teach panel and additional circuitry for robot safety such as warning lamps, etc.
9. The generic twin phantom enabling the testing of left-hand and right-hand usage.
10. The device holder for handheld mobile phones.
11. Tissue simulating liquid mixed according to the given recipes.
12. System validation dipoles allowing to validate the proper functioning of the system.

4.2.2 Robot

The Dasy SAR system uses the high precision robots. Symmetrical design with triangular core Built-in optical fiber for surface detection system For the 6-axis controller system, Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents). The robot series have many features that are important for our application:

Photo for DASY5

- High precision
  (repeatability ±0.02 mm)
- High reliability
  (industrial design)
- Low maintenance costs
  (virtually maintenance free due to direct drive gears; no belt drives)
- Jerk-free straight movements
  (brush less synchron motors; no stepper motors)
- Low ELF interference
  (motor control _elds shielded via the closed metallic c onstruction shields)

Photo for DASY4

- High precision
  (repeatability ±0.02 mm)
- High reliability
  (industrial design)
- Low maintenance costs
  (virtually maintenance free due to direct drive gears; no belt drives)
- Jerk-free straight movements
  (brush less synchron motors; no stepper motors)
- Low ELF interference
  (motor control _elds shielded via the closed metallic c onstruction shields)

4.2.3 E-Field Probe

The probe is specially designed and calibrated for use in liquids with high permittivities for the measurements the Specific Dosimetric E-Field Probe EX3DV4 with following specifications is used.

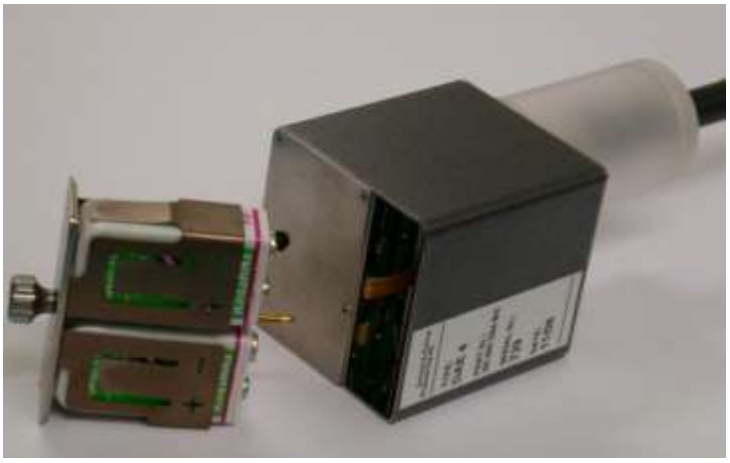
Construction	Symmetrical design with triangular core Built-in optical fiber for surface detection systemBuilt-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., glycolether)
Calibration	ISO/IEC 17025 calibration service available
Frequency	10 MHz to 6 GHz; Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.2 dB in HSL (rotation around probe axis) ; ± 0.4 dB in HSL (rotation normal to probe axis)
Dynamic range	5 μW/g to > 100 mW/g; Linearity: ± 0.2 dB
Dimensions	Overall length: 337 mm (Tip: 9 mm) Tip diameter: 2.5 mm (Body: 10 mm) Distance from probe tip to dipole centers: 1.0 mm
Application	General dosimetry up to 3 GHz Compliance tests of mobile phones Fast automatic scanning in arbitrary phantoms (EX3DV4)

E-Field Probe Calibration Process

Probe calibration is realized, in compliance with CENELEC EN 62209-1/-2 and IEEE 1528 std, with CALISAR, Antennessa proprietary calibration system. The calibration is performed with the EN 62209-1/2 annexe technique using reference guide at the five frequencies.

4.2.4 Data Acquisition Electronics

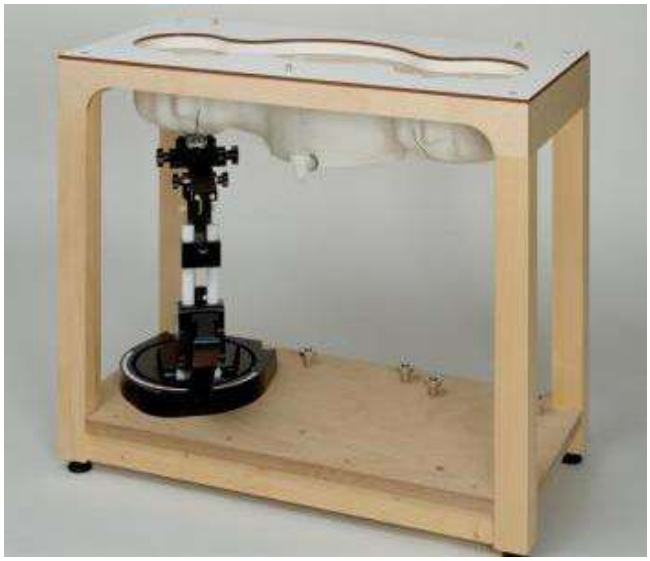
The data acquisition electronics (DAE) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converte and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information, as well as an optical uplink for commands and the clock.



- Input Impedance: 200MOhm
- The Inputs: Symmetrical and Floating
- Commom Mode Rejection: Above 80dB

4.2.5 Phantoms

For the measurements the Specific Anthropomorphic Mannequin (SAM) defined by the IEEE SCC-34/SC2 group is used. The phantom is a polyurethane shell integrated in a wooden table. The thickness of the phantom amounts to 2mm +/- 0.2mm. It enables the dosimetric evaluation of left and right phone usage and includes an additional flat phantom part for the simplified performance check. The phantom set-up includes a cover, which prevents the evaporation of the liquid.



- Left hand
- Right hand
- Flat phantom

Photo of Phantom

Serial Number	Material	Length	Height
SN 1857 SAM1	Vinylester, glass fiber reinforced	1000	500
SN 1859 SAM2	Vinylester, glass fiber reinforced	1000	500
SN 1392 SAM3	Vinylester, glass fiber reinforced	1000	500
SN 1402 SAM4	Vinylester, glass fiber reinforced	1000	500

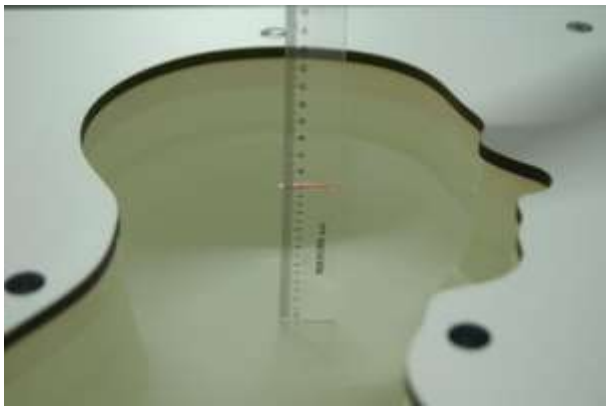
4.2.6 Device Holder

The DASY device holder has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of 65°. 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. This device holder is used for standard mobile phones or PDA"s only. If necessary an additional support of polystyrene material is used. Larger DUT"s (e.g. notebooks) cannot be tested using this device holder. Instead a support of bigger polystyrene cubes and thin polystyrene plates is used to position the DUT in all relevant positions to find and measure spots with maximum SAR values. Therefore those devices are normally only tested at the flat part of the SAM.

The positioning system allows obtaining cheek and tilting position with a very good accuracy. Incompliance with CENELEC, the tilt angle uncertainty is lower than 1°.

4.2.7 Simulating Liquid

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

Head Liquid Depth	Body Liquid Depth
	

The following table gives the recipes for tissue simulating liquid and the theoretical Conductivity/Permittivity.

Head (Reference IEEE1528)								
Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity σ (S/m)	Permittivity ε
750	41.1	57.0	0.2	1.4	0.2	0	0.89	41.9
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5
900	40.3	57.9	0.2	1.4	0.2	0	0.97	41.5
1800, 1900, 2000	55.2	0	0	0.3	0	44.5	1.4	40.0
2450	55.0	0	0	0.1	0	44.9	1.80	39.2
2600	54.9	0	0	0.1	0	45.0	1.96	39.0
Frequency (MHz)	Water (%)	Hexyl Carbitol (%)			Triton X-100 (%)		Conductivity σ (S/m)	Permittivity ε
5200	62.52	17.24			17.24		4.66	36.0
5800	62.52	17.24			17.24		5.27	35.3
Body (From instrument manufacturer)								
Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity σ (S/m)	Permittivity ε
750	51.7	47.2	0	0.9	0.1	0	0.96	55.5
835	50.8	48.2	0	0.9	0.1	0	0.97	55.2
900	50.8	48.2	0	0.9	0.1	0	1.05	55.0
1800, 1900, 2000	70.2	0	0	0.4	0	29.4	1.52	53.3
2450	68.6	0	0	0.1	0	31.3	1.95	52.7
2600	68.2	0	0	0.1	0	31.7	2.16	52.5
Frequency(MHz)	Water	DGBE (%)			Salt (%)		Conductivity σ (S/m)	Permittivity ε
5200	78.60	21.40			/		5.54	47.86
5800	78.50	21.40			0.1		6.0	48.20

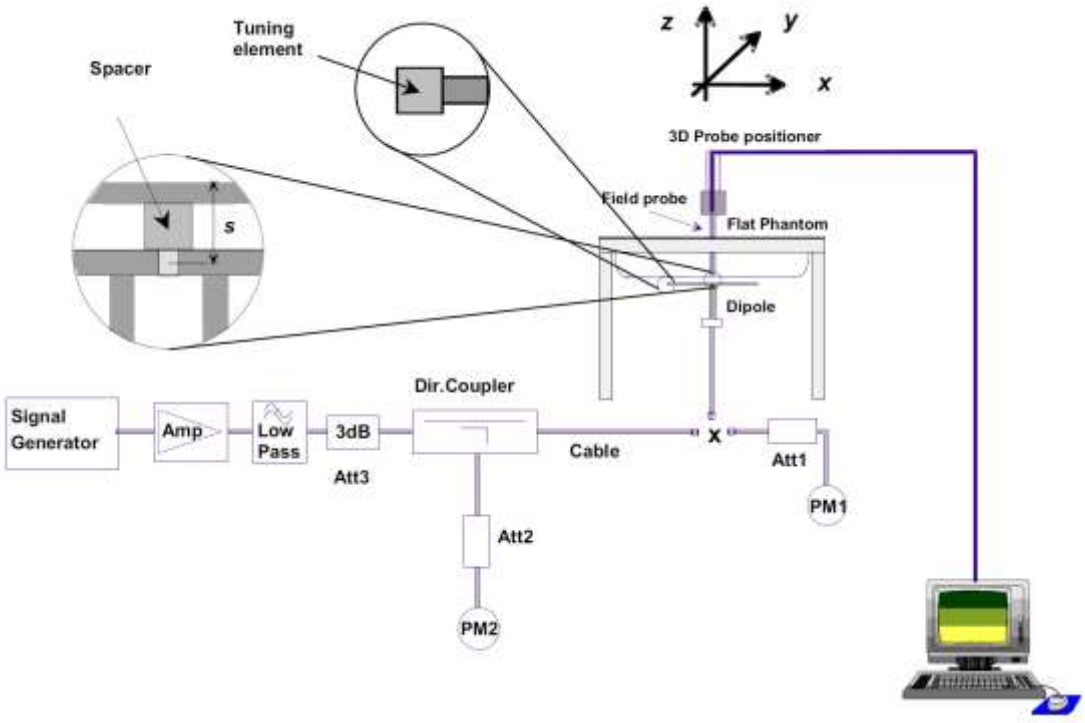
5 SYSTEM VERIFICATION

5.1 Purpose of System Check

The system performance check verifies that the system operates within its specifications. System and operator errors can be detected and corrected. It is recommended that the system performance check be performed prior to any usage of the system in order to guarantee reproducible results. The system performance check uses normal SAR measurements in a simplified setup with a well characterized source.This setup was selected to give a high sensitivity to all parameters that might fail or vary over time. The system check does not intend to replace the calibration of the components, but indicates situations where the system uncertainty is exceeded due to drift or failure.

5.2 System Check Setup

In the simplified setup for system evaluation, the EUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave that comes from a signal generator. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The equipment setup is shown below:



6 TEST POSITION CONFIGURATIONS

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

6.1 Head Exposure Conditions

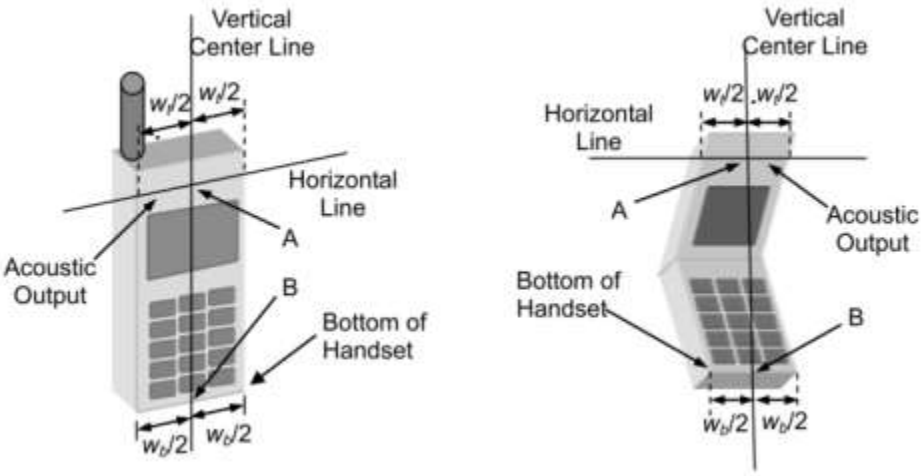
Head exposure is limited to next to the ear voice mode operations. Head SAR compliance is tested according to the test positions defined in IEEE Std 1528-2013 using the SAM phantom illustrated as below.

6.1.1 Two Imaginary Lines on the Handset

(a) The vertical center line passes through two points on the front side of the handset - the midpoint of the width w t of the handset at the level of the acoustic output, and the midpoint of the width w b of the bottom of the handset.

(b) The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output. The horizontal line is also tangential to the face of the handset at point A.

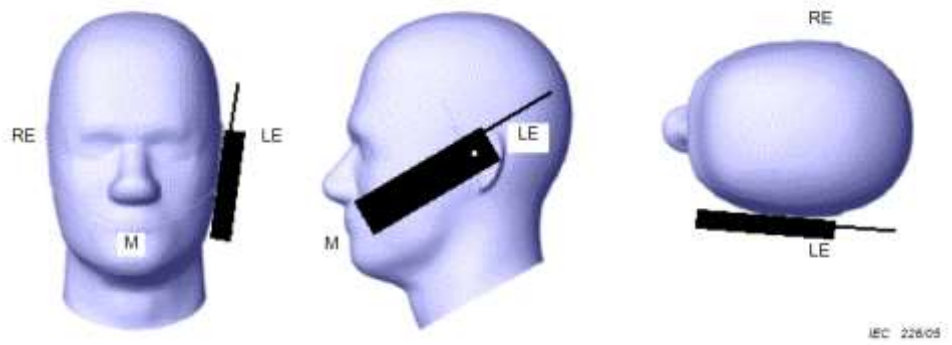
(c) The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical center line is not necessarily parallel to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.



6.1.2 Cheek Position

(a) To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the three ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE.

(b) To move the device towards the phantom with the ear piece aligned with the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost.



6.1.3 Tilted Position

(a) To position the device in the “cheek” position described above.

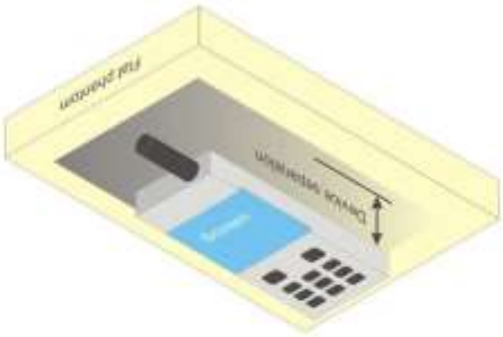
(b) While maintaining the device the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost.

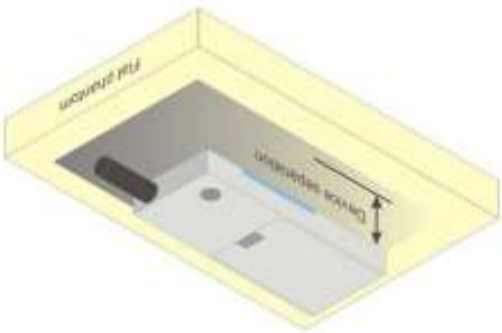
6.2 Body-worn Position Conditions

Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in KDB 447498 are used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode. When the reported SAR for a body-worn accessory.

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

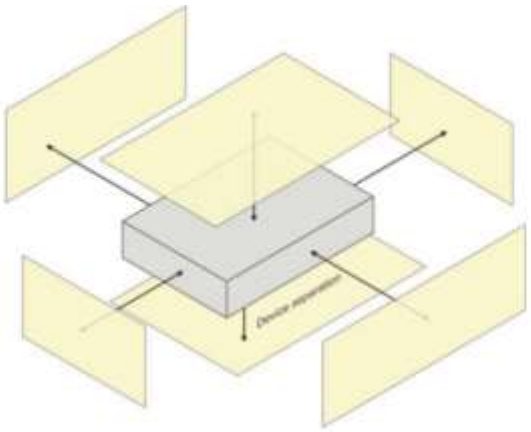
Body-worn accessory SAR compliance is based on a single minimum test separation distance for all wireless and operating modes applicable to each body-worn accessory used by the host, and according to the relevant voice and/or data mode transmissions and operations. If a body-worn accessory supports voice only operations in its normal and expected use conditions, testing of data mode for body-worn compliance is not required. A conservative minimum test separation distance for supporting off-the-shelf body-worn accessories that may be acquired by users of consumer handsets is used to test for body-worn accessory SAR compliance. This distance is determined by the handset manufacturer, according to the requirements of Supplement C 01-01. Devices that are designed to operate on the body of users using lanyards and straps, or without requiring additional body-worn accessories, will be tested using a conservative minimum test separation distance <= 5 mm to support compliance.





6.3 Hotspot Mode Exposure Position Conditions

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



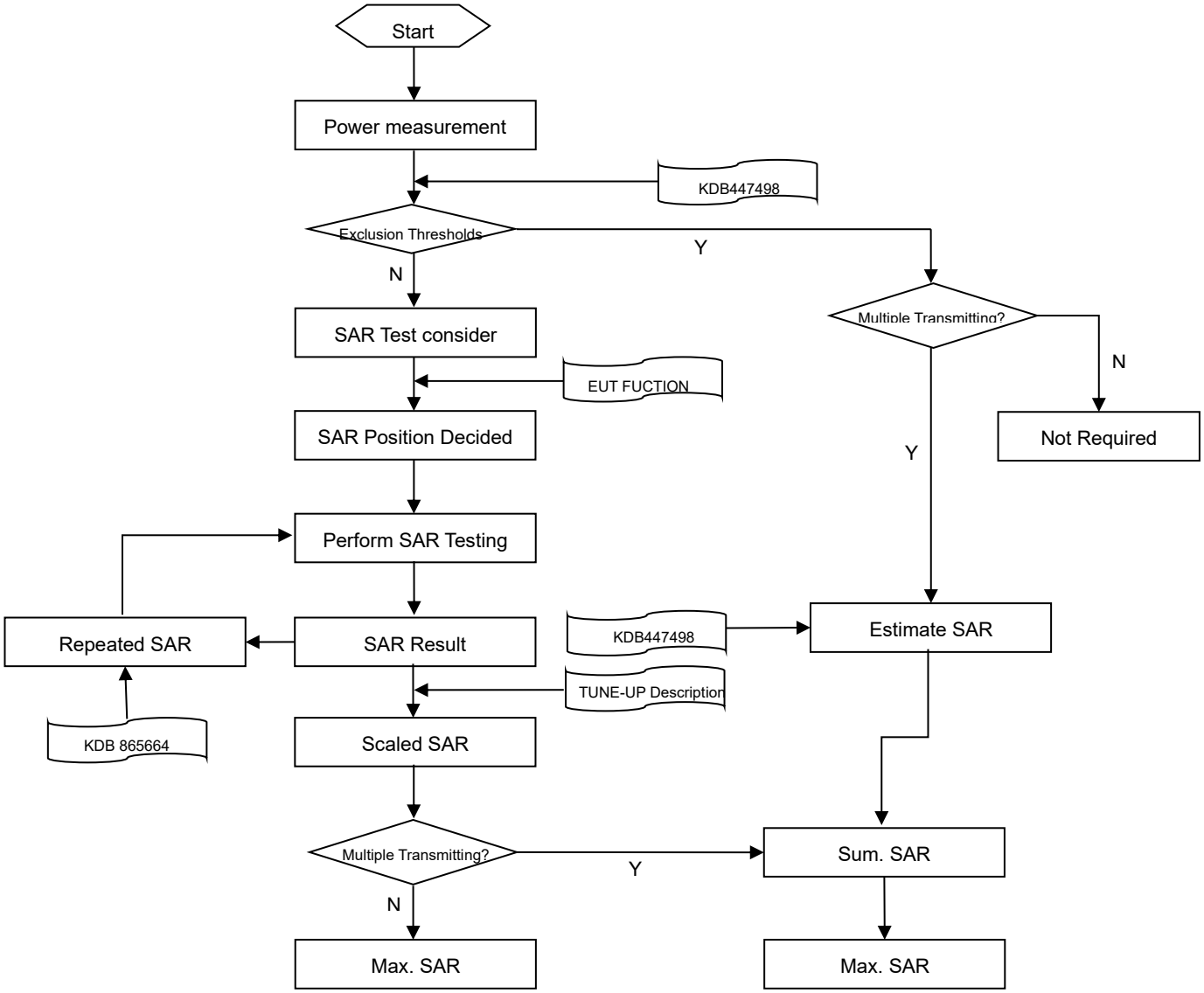
6.4 Product Specific 10g Exposure Consideration

According with FCC KDB 648474 D04, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, unless it is confirmed otherwise through KDB inquiries, the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless modes and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance;

The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for 10-g extremity SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg.

7 MEASUREMENT PROCEDURE

7.1 Measurement Process Diagram



7.2 SAR Scan General Requirement

Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Boththe probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1 g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEEE Std 1528-2013.

<table>
<tr><th colspan="3"></th><th>≤3GHz</th><th>>3GHz</th></tr>
<tr><td colspan="3">Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface</td><td>5±1 mm</td><td>½·δ·ln(2)±0.5 mm</td></tr>
<tr><td colspan="3">Maximum probe angle from probe axis to phantom surface normal at the measurement location</td><td>30°±1°</td><td>20°±1°</td></tr>
<tr><td colspan="3" rowspan="2">Maximum area scan spatial resolution: Δx Area , Δy Area</td><td>≤ 2 GHz: ≤ 15 mm
2 – 3 GHz: ≤ 12 mm</td><td>3–4 GHz: ≤ 12 mm
4 – 6 GHz: ≤ 10 mm</td></tr>
<tr><td colspan="2">When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.</td></tr>
<tr><td colspan="3">Maximum zoom scan spatial resolution: Δx Zoom , Δy Zoom</td><td>≤ 2 GHz: ≤ 8 mm
2 –3 GHz: ≤ 5 mm*</td><td>3–4 GHz: ≤ 5 mm*
4 – 6 GHz: ≤ 4 mm*</td></tr>
<tr><td rowspan="7">Maximum zoom scan spatial resolution, normal to phantom surface</td><td colspan="2" rowspan="3">uniform grid: Δz Zoom (n)</td><td rowspan="3">≤ 5 mm</td><td>3–4 GHz: ≤ 4 mm</td></tr>
<tr><td>4–5 GHz: ≤ 3 mm</td></tr>
<tr><td>5–6 GHz: ≤ 2 mm</td></tr>
<tr><td rowspan="4">graded grid</td><td rowspan="3">Δz Zoom (1): between 1st two points closest to phantom surface</td><td rowspan="3">≤ 4 mm</td><td>3–4 GHz: ≤ 3 mm</td></tr>
<tr><td>4–5 GHz: ≤ 2.5 mm</td></tr>
<tr><td>5–6 GHz: ≤ 2 mm</td></tr>
<tr><td>Δz Zoom (n>1): between subsequent points</td><td colspan="2">≤ 1.5·Δz Zoom (n-1)</td></tr>
<tr><td rowspan="3">Minimum zoom scan volume</td><td colspan="2" rowspan="3">x, y, z</td><td rowspan="3">≥30 mm</td><td>3–4 GHz: ≥ 28 mm</td></tr>
<tr><td>4–5 GHz: ≥ 25 mm</td></tr>
<tr><td>5–6 GHz: ≥ 22 mm</td></tr>
<tr><td colspan="5">Note:
1. δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.
2. * When zoom scan is required and the reported SAR from the area scan based 1 g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.</td></tr>
</table>

7.3 Measurement Procedure

The following steps are used for each test position

a. Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface

b. Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.

c. Measurement of the SAR distribution with a grid of 8 to 16mm * 8 to16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme.

d. Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 *32 mm is assessed by measuring 5 or 8 * 5 or 8*4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

7.4 Area & Zoom Scan Procedure

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g. Area scan and zoom scan resolution setting follows KDB 865664 D01v01r04 quoted below.

When the 1 g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.

8 CONDUCTED RF OUPUT POWER

8.1 GSM

Please refer the document “Conducted RF Output Power List.pdf”.

8.2 WCDMA

Please refer the document “Conducted RF Output Power List.pdf”.

8.3 LTE

Please refer the document “Conducted RF Output Power List.pdf”.

8.4 Intra-Band Uplink CA Power

Please refer the document “Conducted RF Output Power List.pdf”.

8.5 LTE Downlink CA Power

Please refer the document “Conducted RF Output Power List.pdf”.

8.6 5G NR

Please refer the document “Conducted RF Output Power List.pdf”.

8.7 Bluetooth

Mode	GFSK			π/4-DQPSK		
Channel	0	39	78	0	39	78
Frequency (MHz)	2402	2441	2480	2402	2441	2480
Average Power (dBm)	**12.84**	12.71	12.63	9.10	9.12	9.23
Tune-Up Limit (dBm)	14.50			10.00		
Mode	8-DPSK			/		
Channel	0	39	78	/	/	/
Frequency (MHz)	2402	2441	2480	/	/	/
Average Power (dBm)	8.99	8.94	9.03	/	/	/
Tune-Up Limit (dBm)	10.00			/		
Mode	BLE (1Mbps)			BLE (2Mbps)		
Channel	0	19	39	0	19	39
Frequency (MHz)	2402	2440	2480	2402	2440	2480
Average Power (dBm)	2.70	3.40	3.20	2.80	3.50	3.30
Tune-Up Limit (dBm)	4.00			4.00		

8.8 Power Reduction List

1. This mobile phone device supports the receiver detection mechanism. This device uses the receiver to indicate whether the user is making a call in head or body.
2. When there is a voice call (including VOIP) and the audio is actively routed through the earpiece receiver, which indicating the head exposure condition it will trigger the head exposure reduced the power.
3. When there is a voice call (including VOIP), and the audio is actively routed through the headset or speaker, which indicating the body exposure conditions will trigger the body exposure reduced the power.
4. When this device used data mode only, and the receiver will not work too, the reduced the power are same as body exposure.

WWAN Reduced Power Level Table

Reduced level	Receiver state	Transmitting conditions
Level 1	On (head scenario)	WWAN Use Only
Level 2	On (head scenario)	WWAN + WLAN 2.4G
Level 3	On (head scenario)	WWAN + WLAN 5G
Level 4	Off (Body scenario)	WWAN Use Only
Level 5	Off (Body scenario)	WWAN + WLAN 2.4G
Level 6	Off (Body scenario)	WWAN + WLAN 5G

WLAN Reduced Power Level Table

Reduced level	Receiver state	Transmitting conditions
Level 1	On (head scenario)	WLAN Only
Level 2	On (head scenario)	WWAN + WLAN
Level 3	Off (Body scenario)	WLAN Only
Level 4	Off (Body scenario)	WWAN + WLAN

WWAN Antenna 1 Power Table

Mode	WWAN Antenna											
	Full Power	Head			Hotspot		Body-worn			Specific		
		Receiver on			Receiver off		Receiver off			Receiver off		
		Stand alone	Simultaneous transmission		Simultaneous transmission		Stand alone	Simultaneous transmission		Stand alone	Simultaneous transmission	
			+2.4G WLAN	+5G WLAN	+2.4G WLAN	+5G WLAN		+2.4G WLAN	+5G WLAN		+2.4G WLAN	+5G WLAN
GSM 850	33.30	29.80	27.30	27.30	33.30	33.30	33.30	33.30	33.30	33.30	33.30	33.30
GPRS850 1 Tx Slot	33.30	29.80	27.30	27.30	33.30	33.30	33.30	33.30	33.30	33.30	33.30	33.30
GPRS850 2 Tx Slots	30.30	26.30	23.80	23.80	30.30	30.30	30.30	30.30	30.30	30.30	30.30	30.30
GPRS850 3 Tx Slots	29.30	25.30	22.30	22.30	29.30	29.30	29.30	29.30	29.30	29.30	29.30	29.30
GPRS850 4 Tx Slots	28.30	24.30	21.30	21.30	28.30	28.30	28.30	28.30	28.30	28.30	28.30	28.30
EGPRS850 1 Tx Slot	27.30	23.30	21.30	21.30	27.30	27.30	27.30	27.30	27.30	27.30	27.30	27.30
EGPRS850 2 Tx Slots	26.30	22.30	19.80	19.80	26.30	26.30	26.30	26.30	26.30	26.30	26.30	26.30
EGPRS850 3 Tx Slots	24.30	20.30	17.80	17.80	24.30	24.30	24.30	24.30	24.30	24.30	24.30	24.30
EGPRS850 4 Tx Slots	23.30	19.30	16.30	16.30	23.30	23.30	23.30	23.30	23.30	23.30	23.30	23.30
GSM 1900	26.30	22.80	21.30	21.30	24.30	24.30	26.30	24.30	24.30	26.30	24.30	24.30
GPRS1900 1 Tx Slot	26.30	22.80	21.30	21.30	24.30	24.30	26.30	24.30	24.30	26.30	24.30	24.30
GPRS1900 2 Tx Slots	22.80	18.80	17.30	17.30	20.30	20.30	22.80	20.30	20.30	22.80	20.30	20.30
GPRS1900 3 Tx Slots	21.80	18.30	16.80	16.80	19.80	19.80	21.80	19.80	19.80	21.80	19.80	19.80
GPRS1900 4 Tx Slots	20.30	16.80	15.30	15.30	18.30	18.30	20.30	18.30	18.30	20.30	18.30	18.30
EGPRS1900 1 Tx Slot	22.30	19.30	17.30	17.30	20.30	20.30	22.30	20.30	20.30	22.30	20.30	20.30
EGPRS1900 2 Tx Slots	20.80	16.80	15.30	15.30	18.80	18.80	20.80	18.80	18.80	20.80	18.80	18.80
EGPRS1900 3 Tx Slots	17.80	14.30	13.30	13.30	16.30	16.30	17.80	16.30	16.30	17.80	16.30	16.30
EGPRS1900 4 Tx Slots	16.80	13.30	11.80	11.80	15.30	15.30	16.80	15.30	15.30	16.80	15.30	15.30
WCDMA Band2 RMC	18.80	14.30	14.30	14.30	16.80	16.80	18.80	16.80	16.80	18.80	16.80	16.80
HSDPA Subtest-1	17.80	13.30	13.30	13.30	15.80	15.80	17.80	15.80	15.80	17.80	15.80	15.80
HSDPA Subtest-2	17.80	13.30	13.30	13.30	15.80	15.80	17.80	15.80	15.80	17.80	15.80	15.80
HSDPA Subtest-3	17.30	12.80	12.80	12.80	15.30	15.30	17.30	15.30	15.30	17.30	15.30	15.30
HSDPA Subtest-4	17.30	12.80	12.80	12.80	15.30	15.30	17.30	15.30	15.30	17.30	15.30	15.30
HSUPA Subtest-1	16.80	12.80	12.80	12.80	14.80	14.80	16.80	14.80	14.80	16.80	14.80	14.80
HSUPA Subtest-2	16.80	12.30	12.30	12.30	14.80	14.80	16.80	14.80	14.80	16.80	14.80	14.80
HSUPA Subtest-3	16.80	12.30	12.30	12.30	14.80	14.80	16.80	14.80	14.80	16.80	14.80	14.80
HSUPA Subtest-4	16.30	11.80	11.80	11.80	14.30	14.30	16.30	14.30	14.30	16.30	14.30	14.30

HSUPA Subtest-5	17.80	13.30	13.30	13.30	15.80	15.80	17.80	15.80	15.80	17.80	15.80	15.80
WCDMA Band4 RMC	18.80	13.30	11.30	11.30	16.80	16.80	18.80	16.80	16.80	18.80	16.80	16.80
HSDPA Subtest-1	17.80	12.30	10.30	10.30	15.80	15.80	17.80	15.80	15.80	17.80	15.80	15.80
HSDPA Subtest-2	17.80	12.30	10.30	10.30	15.80	15.80	17.80	15.80	15.80	17.80	15.80	15.80
HSDPA Subtest-3	17.30	11.80	9.80	9.80	15.30	15.30	17.30	15.30	15.30	17.30	15.30	15.30
HSDPA Subtest-4	17.30	11.80	9.80	9.80	15.30	15.30	17.30	15.30	15.30	17.30	15.30	15.30
HSUPA Subtest-1	16.80	11.80	9.80	9.80	14.80	14.80	16.80	14.80	14.80	16.80	14.80	14.80
HSUPA Subtest-2	16.80	11.30	9.30	9.30	14.80	14.80	16.80	14.80	14.80	16.80	14.80	14.80
HSUPA Subtest-3	16.80	12.30	9.80	9.80	14.80	14.80	16.80	14.80	14.80	16.80	14.80	14.80
HSUPA Subtest-4	16.30	10.80	8.30	8.30	14.30	14.30	16.30	14.30	14.30	16.30	14.30	14.30
HSUPA Subtest-5	17.80	12.30	10.30	10.30	15.80	15.80	17.80	15.80	15.80	17.80	15.80	15.80
WCDMA Band5 RMC	24.30	22.30	20.30	20.30	22.30	22.30	24.30	22.30	22.30	24.30	22.30	22.30
HSDPA Subtest-1	23.30	21.30	19.30	19.30	21.30	21.30	23.30	21.30	21.30	23.30	21.30	21.30
HSDPA Subtest-2	23.30	21.30	19.30	19.30	21.30	21.30	23.30	21.30	21.30	23.30	21.30	21.30
HSDPA Subtest-3	22.80	20.80	18.80	18.80	20.80	20.80	22.80	20.80	20.80	22.80	20.80	20.80
HSDPA Subtest-4	22.80	20.80	18.80	18.80	20.80	20.80	22.80	20.80	20.80	22.80	20.80	20.80
HSUPA Subtest-1	21.80	19.80	17.80	17.80	19.80	19.80	21.80	19.80	19.80	21.80	19.80	19.80
HSUPA Subtest-2	21.80	19.80	17.80	17.80	19.80	19.80	21.80	19.80	19.80	21.80	19.80	19.80
HSUPA Subtest-3	21.30	19.30	17.30	17.30	19.30	19.30	21.30	19.30	19.30	21.30	19.30	19.30
HSUPA Subtest-4	20.80	18.80	16.80	16.80	18.80	18.80	20.80	18.80	18.80	20.80	18.80	18.80
HSUPA Subtest-5	23.30	21.30	19.30	19.30	21.30	21.30	23.30	21.30	21.30	23.30	21.30	21.30
LTE Band2	19.80	15.30	15.30	15.30	17.80	17.80	19.80	17.80	17.80	19.80	17.80	17.80
LTE Band4	19.80	14.30	12.30	12.30	17.80	17.80	19.80	17.80	17.80	19.80	17.80	17.80
LTE Band5	24.30	23.30	21.30	21.30	24.30	24.30	24.30	24.30	24.30	24.30	24.30	24.30
LTE Band7	20.30	17.80	15.80	15.80	18.30	18.30	20.30	18.30	18.30	20.30	18.30	18.30
LTE Band12	24.30	23.30	21.30	21.30	24.30	24.30	24.30	24.30	24.30	24.30	24.30	24.30
LTE Band17	24.30	23.30	21.30	21.30	24.30	24.30	24.30	24.30	24.30	24.30	24.30	24.30
LTE Band26	24.30	23.30	21.30	21.30	24.30	24.30	24.30	24.30	24.30	24.30	24.30	24.30
LTE Band66	19.80	14.30	12.30	12.30	17.80	17.80	19.80	17.80	17.80	19.80	17.80	17.80
LTE Band38	17.80	15.30	13.30	13.30	15.80	15.80	17.80	15.80	15.80	17.80	15.80	15.80
LTE Band41	17.80	15.30	13.30	13.30	15.80	15.80	17.80	15.80	15.80	17.80	15.80	15.80
NR n5	24.30	22.30	20.30	20.30	24.30	24.30	24.30	24.30	24.30	24.30	24.30	24.30
NR n7	18.50	14.50	14.50	14.50	18.50	18.50	18.50	18.50	18.50	18.50	18.50	18.50
NR n38	21.80	14.80	14.80	14.80	19.80	19.80	21.80	19.80	19.80	21.80	19.80	19.80
NR n41	18.80	15.80	14.80	14.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80

WWAN Antenna 0 Power Table

Mode	WWAN Antenna											
	Full Power	Head			Hotspot		Body-worn			Specific		
		Receiver on			Receiver off		Receiver off			Receiver off		
		Stand alone	Simultaneous transmission		Simultaneous transmission		Stand alone	Simultaneous transmission		Stand alone	Simultaneous transmission	
			+2.4G WLAN	+5G WLAN	+2.4G WLAN	+5G WLAN		+2.4G WLAN	+5G WLAN		+2.4G WLAN	+5G WLAN
GSM 850	33.30	33.30	33.30	33.30	33.30	33.30	33.30	33.30	33.30	33.30	33.30	33.30
GPRS850 1 Tx Slot	33.30	33.30	33.30	33.30	33.30	33.30	33.30	33.30	33.30	33.30	33.30	33.30
GPRS850 2 Tx Slots	30.30	30.30	30.30	30.30	30.30	30.30	30.30	30.30	30.30	30.30	30.30	30.30
GPRS850 3 Tx Slots	29.30	29.30	29.30	29.30	29.30	29.30	29.30	29.30	29.30	29.30	29.30	29.30
GPRS850 4 Tx Slots	28.30	28.30	28.30	28.30	28.30	28.30	28.30	28.30	28.30	28.30	28.30	28.30
EGPRS850 1 Tx Slot	27.30	27.30	27.30	27.30	27.30	27.30	27.30	27.30	27.30	27.30	27.30	27.30
EGPRS850 2 Tx Slots	26.30	26.30	26.30	26.30	26.30	26.30	26.30	26.30	26.30	26.30	26.30	26.30
EGPRS850 3 Tx Slots	24.30	24.30	24.30	24.30	24.30	24.30	24.30	24.30	24.30	24.30	24.30	24.30
EGPRS850 4 Tx Slots	23.30	23.30	23.30	23.30	23.30	23.30	23.30	23.30	23.30	23.30	23.30	23.30
GSM 1900	30.30	30.30	30.30	30.30	27.30	27.30	29.30	27.30	27.30	29.30	27.30	27.30
GPRS1900 1 Tx Slot	30.30	30.30	30.30	30.30	27.30	27.30	29.30	27.30	27.30	29.30	27.30	27.30
GPRS1900 2 Tx Slots	27.80	27.80	27.80	27.80	23.30	23.30	25.80	23.30	23.30	25.80	23.30	23.30
GPRS1900 3 Tx Slots	26.30	26.30	26.30	26.30	22.80	22.80	25.30	22.80	22.80	25.30	22.80	22.80
GPRS1900 4 Tx Slots	25.80	25.80	25.80	25.80	21.30	21.30	23.30	21.30	21.30	23.30	21.30	21.30
EGPRS1900 1 Tx Slot	26.30	26.30	26.30	26.30	23.30	23.30	24.80	23.30	23.30	24.80	23.30	23.30
EGPRS1900 2 Tx Slots	24.30	24.30	24.30	24.30	21.30	21.30	23.80	21.30	21.30	23.80	21.30	21.30
EGPRS1900 3 Tx Slots	21.80	21.80	21.80	21.80	18.80	18.80	20.80	18.80	18.80	20.80	18.80	18.80
EGPRS1900 4 Tx Slots	20.30	20.30	20.30	20.30	17.30	17.30	19.30	17.30	17.30	19.30	17.30	17.30
WCDMA Band2 RMC	23.80	23.80	23.80	23.80	18.80	18.80	20.80	18.80	18.80	20.80	18.80	18.80
HSDPA Subtest-1	22.80	22.80	22.80	22.80	17.80	17.80	19.80	17.80	17.80	19.80	17.80	17.80
HSDPA Subtest-2	22.80	22.80	22.80	22.80	17.80	17.80	19.80	17.80	17.80	19.80	17.80	17.80
HSDPA Subtest-3	22.30	22.30	22.30	22.30	17.30	17.30	19.30	17.30	17.30	19.30	17.30	17.30
HSDPA Subtest-4	22.30	22.30	22.30	22.30	17.30	17.30	19.30	17.30	17.30	19.30	17.30	17.30
HSUPA Subtest-1	21.80	21.80	21.80	21.80	16.80	16.80	19.30	16.80	16.80	19.30	16.80	16.80
HSUPA Subtest-2	21.80	21.80	21.80	21.80	16.80	16.80	19.30	16.80	16.80	19.30	16.80	16.80
HSUPA Subtest-3	21.80	21.80	21.80	21.80	16.80	16.80	19.30	16.80	16.80	19.30	16.80	16.80
HSUPA Subtest-4	21.30	21.30	21.30	21.30	16.30	16.30	18.80	16.30	16.30	18.80	16.30	16.30

HSUPA Subtest-5	22.80	22.80	22.80	22.80	17.80	17.80	19.80	17.80	17.80	19.80	17.80	17.80
WCDMA Band4 RMC	24.30	24.30	24.30	24.30	17.30	17.30	19.30	17.30	17.30	19.30	17.30	17.30
HSDPA Subtest-1	23.30	23.30	23.30	23.30	16.30	16.30	18.30	16.30	16.30	18.30	16.30	16.30
HSDPA Subtest-2	23.30	23.30	23.30	23.30	16.30	16.30	18.30	16.30	16.30	18.30	16.30	16.30
HSDPA Subtest-3	22.80	22.80	22.80	22.80	15.80	15.80	17.80	15.80	15.80	17.80	15.80	15.80
HSDPA Subtest-4	22.80	22.80	22.80	22.80	15.80	15.80	17.80	15.80	15.80	17.80	15.80	15.80
HSUPA Subtest-1	22.80	22.80	22.80	22.80	15.30	15.30	17.30	15.30	15.30	17.30	15.30	15.30
HSUPA Subtest-2	22.30	22.30	22.30	22.30	15.30	15.30	17.30	15.30	15.30	17.30	15.30	15.30
HSUPA Subtest-3	22.30	22.30	22.30	22.30	15.30	15.30	17.30	15.30	15.30	17.30	15.30	15.30
HSUPA Subtest-4	21.80	21.80	21.80	21.80	14.80	14.80	16.80	14.80	14.80	16.80	14.80	14.80
HSUPA Subtest-5	23.30	23.30	23.30	23.30	16.30	16.30	17.80	16.30	16.30	17.80	16.30	16.30
WCDMA Band5 RMC	24.30	24.30	24.30	24.30	21.30	21.30	23.30	21.30	21.30	23.30	21.30	21.30
HSDPA Subtest-1	23.30	23.30	23.30	23.30	20.30	20.30	22.30	20.30	20.30	22.30	20.30	20.30
HSDPA Subtest-2	23.30	23.30	23.30	23.30	20.30	20.30	22.30	20.30	20.30	22.30	20.30	20.30
HSDPA Subtest-3	22.80	22.80	22.80	22.80	19.80	19.80	21.80	19.80	19.80	21.80	19.80	19.80
HSDPA Subtest-4	22.80	22.80	22.80	22.80	19.80	19.80	21.80	19.80	19.80	21.80	19.80	19.80
HSUPA Subtest-1	21.80	21.80	21.80	21.80	19.30	19.30	21.30	19.30	19.30	21.30	19.30	19.30
HSUPA Subtest-2	21.80	21.80	21.80	21.80	19.30	19.30	21.30	19.30	19.30	21.30	19.30	19.30
HSUPA Subtest-3	21.30	21.30	21.30	21.30	19.30	19.30	21.30	19.30	19.30	21.30	19.30	19.30
HSUPA Subtest-4	20.80	20.80	20.80	20.80	18.80	18.80	20.80	18.80	18.80	20.80	18.80	18.80
HSUPA Subtest-5	23.30	23.30	23.30	23.30	20.30	20.30	22.30	20.30	20.30	22.30	20.30	20.30
LTE Band2	23.80	23.80	23.80	23.80	19.80	19.80	21.80	19.80	19.80	21.80	19.80	19.80
LTE Band4	23.80	23.80	23.80	23.80	18.30	18.30	20.30	18.30	18.30	20.30	18.30	18.30
LTE Band5	24.30	24.30	24.30	24.30	24.30	24.30	24.30	24.30	24.30	24.30	24.30	24.30
LTE Band7	23.30	23.30	23.30	23.30	20.30	20.30	22.30	20.30	20.30	22.30	20.30	20.30
LTE Band12	24.30	24.30	24.30	24.30	24.30	24.30	24.30	24.30	24.30	24.30	24.30	24.30
LTE Band17	24.30	24.30	24.30	24.30	24.30	24.30	24.30	24.30	24.30	24.30	24.30	24.30
LTE Band26	24.30	24.30	24.30	24.30	24.30	24.30	24.30	24.30	24.30	24.30	24.30	24.30
LTE Band66	23.80	23.80	23.80	23.80	18.30	18.30	20.30	18.30	18.30	20.30	18.30	18.30
LTE Band38	23.80	23.80	23.80	23.80	18.30	18.30	20.30	18.30	18.30	20.30	18.30	18.30
LTE Band41	23.80	23.80	23.80	23.80	18.30	18.30	20.30	18.30	18.30	20.30	18.30	18.30
NR n5	24.30	24.30	24.30	24.30	24.30	24.30	24.30	24.30	24.30	24.30	24.30	24.30
NR n7	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.50
NR n38	23.80	23.80	23.80	23.80	22.80	22.80	23.80	22.80	22.80	23.80	22.80	22.80
NR n41	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80

WLAN Antenna Power Table

Mode	WLAN Antenna(Tune-Up Power)							
	Full Power	Head		Hotspot	Body-worn		Specific	
		Receiver on		Receiver off	Receiver off		Receiver off	
		Standalone	Simultaneous transmission	Simultaneous transmission	Standalone	Simultaneous transmission	Standalone	Simultaneous transmission
			WWAN+WLAN	WWAN+WLAN		WWAN+WLAN		WWAN+WLAN
2.4G WLAN 802.11b	20.00	17.00	15.00	20.00	20.00	20.00	20.00	20.00
2.4G WLAN 802.11g	19.00	16.00	14.00	19.00	19.00	19.00	19.00	19.00
2.4G WLAN 802.11n20	19.00	16.00	14.00	19.00	19.00	19.00	19.00	19.00
2.4G WLAN 802.11n40	19.00	16.00	14.00	19.00	19.00	19.00	19.00	19.00
2.4G WLAN 802.11ac20	19.00	16.00	14.00	19.00	19.00	19.00	19.00	19.00
2.4G WLAN 802.11ac40	19.00	16.00	14.00	19.00	19.00	19.00	19.00	19.00
5.2G WLAN 802.11a	19.50	16.50	13.50	19.50	19.50	19.50	19.50	19.50
5.2G WLAN 802.11n20	19.50	16.50	13.50	19.50	19.50	19.50	19.50	19.50
5.2G WLAN 802.11n40	18.50	15.50	12.50	18.50	18.50	18.50	18.50	18.50
5.2G WLAN 802.11ac20	19.50	16.50	13.50	19.50	19.50	19.50	19.50	19.50
5.2G WLAN 802.11ac40	18.50	15.50	12.50	18.50	18.50	18.50	18.50	18.50
5.2G WLAN 802.11ac80	17.00	15.50	12.50	17.00	17.00	17.00	17.00	17.00
5.3G WLAN 802.11a	19.50	16.50	13.50	19.50	19.50	19.50	19.50	19.50
5.3G WLAN 802.11n20	19.50	16.50	13.50	19.50	19.50	19.50	19.50	19.50
5.3G WLAN 802.11n40	18.50	15.50	12.50	18.50	18.50	18.50	18.50	18.50
5.3G WLAN 802.11ac20	18.50	16.50	13.50	18.50	18.50	18.50	18.50	18.50
5.3G WLAN 802.11ac40	18.50	15.50	12.50	18.50	18.50	18.50	18.50	18.50
5.3G WLAN 802.11ac80	16.50	15.50	12.50	16.50	16.50	16.50	16.50	16.50

5.6G WLAN 802.11a	19.50	16.50	13.50	19.50	19.50	19.50	19.50	19.50
5.6G WLAN 802.11n20	19.50	16.50	13.50	19.50	19.50	19.50	19.50	19.50
5.6G WLAN 802.11n40	18.50	15.50	12.50	18.50	18.50	18.50	18.50	18.50
5.6G WLAN 802.11ac20	19.50	16.50	13.50	19.50	19.50	19.50	19.50	19.50
5.6G WLAN 802.11ac40	18.50	15.50	12.50	18.50	18.50	18.50	18.50	18.50
5.6G WLAN 802.11ac80	17.50	15.50	12.50	17.50	17.50	17.50	17.50	17.50
5.8G WLAN 802.11a	16.00	16.00	13.00	16.00	16.00	16.00	16.00	16.00
5.8G WLAN 802.11n20	16.00	16.00	13.00	16.00	16.00	16.00	16.00	16.00
5.8G WLAN 802.11n40	16.00	16.00	13.00	16.00	16.00	16.00	16.00	16.00
5.8G WLAN 802.11ac20	16.00	16.00	13.00	16.00	16.00	16.00	16.00	16.00
5.8G WLAN 802.11ac40	16.00	16.00	13.00	16.00	16.00	16.00	16.00	16.00
5.8G LAN 802.11ac80	16.00	16.00	13.00	16.00	16.00	16.00	16.00	16.00
Bluetooth	14.50	14.50	14.50	14.50	14.50	14.50	14.50	14.50

8.8.1 Power Reduced Level 1 of 2.4G WIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	15.72	17.00	Yes
		6	2437	**15.75**	17.00	Yes
		11	2462	15.67	17.00	Yes
	802.11g	1	2412	14.56	16.00	No
		6	2437	14.85	16.00	No
		11	2462	12.62	14.00	No
	802.11n(HT20)	1	2412	14.82	16.00	No
		6	2437	14.74	16.00	No
		11	2462	12.17	13.50	No
	802.11n(HT40)	3	2422	12.70	14.00	No
		6	2437	14.73	16.00	No
		9	2452	10.76	12.00	No
	802.11ac(VHT20)	1	2412	14.70	16.00	No
		6	2437	14.76	16.00	No
		11	2462	12.80	14.00	No
	802.11ac(VHT40)	3	2422	13.59	15.00	No
		6	2437	14.59	16.00	No
		9	2452	12.05	13.50	No

8.8.2 Power Reduced Level 2 of 2.4G WIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	**13.81**	15.00	Yes
		6	2437	13.64	15.00	No
		11	2462	13.78	15.00	No
	802.11g	1	2412	12.69	14.00	No
		6	2437	12.66	14.00	No
		11	2462	12.62	14.00	No
	802.11n(HT20)	1	2412	12.76	14.00	No
		6	2437	12.84	14.00	No
		11	2462	12.17	13.50	No
	802.11n(HT40)	3	2422	12.70	14.00	No
		6	2437	12.55	14.00	No
		9	2452	10.76	12.00	No
	802.11ac(VHT20)	1	2412	12.55	14.00	No
		6	2437	12.62	14.00	No
		11	2462	12.80	14.00	No
	802.11ac(VHT40)	3	2422	12.55	14.00	No
		6	2437	12.85	14.00	No
		9	2452	12.05	13.50	No

8.8.3 Power Reduced Level 3 of 2.4G WIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	18.71	20.00	No
		6	2437	16.48	18.00	No
		11	2462	**18.75**	20.00	Yes
	802.11g	1	2412	15.26	16.50	No
		6	2437	17.66	19.00	No
		11	2462	12.62	14.00	No
	802.11n(HT20)	1	2412	14.82	16.00	No
		6	2437	17.83	19.00	No
		11	2462	12.17	13.50	No
	802.11n(HT40)	3	2422	12.70	14.00	No
		6	2437	17.73	19.00	No
		9	2452	10.76	12.00	No
	802.11ac(VHT20)	1	2412	15.05	16.50	No
		6	2437	17.93	19.00	No
		11	2462	12.80	14.00	No
	802.11ac(VHT40)	3	2422	13.59	15.00	No
		6	2437	17.70	19.00	No
		9	2452	12.05	13.50	No

8.8.4 Power Reduced Level 4 of 2.4G WIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	18.71	20.00	No
		6	2437	16.48	18.00	No
		11	2462	**18.75**	20.00	Yes
	802.11g	1	2412	15.26	16.50	No
		6	2437	17.66	19.00	No
		11	2462	12.62	14.00	No
	802.11n(HT20)	1	2412	14.82	16.00	No
		6	2437	17.83	19.00	No
		11	2462	12.17	13.50	No
	802.11n(HT40)	3	2422	12.70	14.00	No
		6	2437	17.73	19.00	No
		9	2452	10.76	12.00	No
	802.11ac(VHT20)	1	2412	15.05	16.50	No
		6	2437	17.93	19.00	No
		11	2462	12.80	14.00	No
	802.11ac(VHT40)	3	2422	13.59	15.00	No
		6	2437	17.70	19.00	No
		9	2452	12.05	13.50	No

8.8.5 Power Reduced Level 1 of 5G WIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	15.06	16.50	No
		44	5220	15.00	16.50	No
		48	5240	15.10	16.50	No
	802.11n(HT20)	36	5180	14.89	16.50	No
		44	5220	14.91	16.50	No
		48	5240	15.04	16.50	No
	802.11n(HT40)	38	5190	14.03	15.50	No
		46	5230	14.11	15.50	No
	802.11ac(VHT20)	36	5180	15.03	16.50	No
		44	5220	15.03	16.50	No
		48	5240	14.87	16.50	No
	802.11ac(VHT40)	38	5190	14.03	15.50	No
		46	5230	13.99	15.50	No
	802.11ac(VHT80)	42	5210	13.90	15.50	No
5.3 (5.25~5.35)	802.11a	52	5260	15.01	16.50	Yes
		60	5300	**15.09**	16.50	Yes
		64	5320	14.98	16.50	Yes
	802.11n(HT20)	52	5260	15.09	16.50	No
		60	5300	15.05	16.50	No
		64	5320	14.95	16.50	No
	802.11n(HT40)	54	5270	13.94	15.50	No
		62	5310	13.92	15.50	No
	802.11ac(VHT20)	52	5260	14.97	16.50	No
		60	5300	15.09	16.50	No
		64	5320	14.93	16.50	No
	802.11ac(VHT40)	54	5270	14.04	15.50	No
		62	5310	13.86	15.50	No
	802.11ac(VHT80)	58	5290	13.89	15.50	No
5.6 (5.47~5.725)	802.11a	100	5500	15.47	16.50	No
		116	5580	**15.78**	16.50	Yes
		140	5700	15.20	16.00	No
	802.11n(HT20)	100	5500	14.88	16.50	No
		116	5580	14.90	16.50	No
		140	5700	13.88	15.50	No
	802.11n(HT40)	102	5510	13.61	15.00	No
		118	5590	14.10	15.50	No
		134	5670	14.10	15.50	No
	802.11ac(VHT20)	100	5500	14.91	16.50	No

		116	5580	15.08	16.50	No
		140	5700	13.86	15.50	No
	802.11ac(VHT40)	102	5510	13.90	15.50	No
		118	5590	14.01	15.50	No
		134	5670	13.97	15.50	No
	802.11ac(VHT80)	106	5530	13.98	15.50	No
		122	5610	13.91	15.50	No
5.8 (5.725~5.850)	802.11a	149	5745	14.42	16.00	No
		157	5785	14.48	16.00	No
		165	5825	14.56	16.00	No
	802.11n(HT20)	149	5745	14.35	16.00	No
		157	5785	14.49	16.00	No
		165	5825	14.49	16.00	No
	802.11n(HT40)	151	5755	14.38	16.00	No
		159	5795	14.58	16.00	No
	802.11ac(VHT20)	149	5745	14.57	16.00	No
		157	5785	14.47	16.00	No
		165	5825	14.40	16.00	No
	802.11ac(VHT40)	151	5755	14.57	16.00	No
		159	5795	14.42	16.00	No
	802.11ac(VHT80)	155	5775	**14.61**	16.00	Yes

8.8.6 Power Reduced Level 2 of 5G WIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	11.97	13.50	No
		44	5220	11.97	13.50	No
		48	5240	12.09	13.50	No
	802.11n(HT20)	36	5180	11.90	13.50	No
		44	5220	11.90	13.50	No
		48	5240	11.85	13.50	No
	802.11n(HT40)	38	5190	10.86	12.50	No
		46	5230	10.85	12.50	No
	802.11ac(VHT20)	36	5180	11.98	13.50	No
		44	5220	12.01	13.50	No
		48	5240	12.12	13.50	No
	802.11ac(VHT40)	38	5190	10.86	12.50	No
		46	5230	10.95	12.50	No
	802.11ac(VHT80)	42	5210	11.05	12.50	No
5.3 (5.25~5.35)	802.11a	52	5260	11.95	13.50	No
		60	5300	**11.96**	13.50	Yes
		64	5320	11.88	13.50	No
	802.11n(HT20)	52	5260	12.13	13.50	No
		60	5300	12.06	13.50	No
		64	5320	11.87	13.50	No
	802.11n(HT40)	54	5270	10.99	12.50	No
		62	5310	10.99	12.50	No
	802.11ac(VHT20)	52	5260	11.97	13.50	No
		60	5300	12.02	13.50	No
		64	5320	12.12	13.50	No
	802.11ac(VHT40)	54	5270	11.01	12.50	No
		62	5310	11.02	12.50	No
	802.11ac(VHT80)	58	5290	11.00	12.50	No
5.6 (5.47~5.725)	802.11a	100	5500	12.38	13.50	No
		116	5580	12.59	13.50	No
		140	5700	**12.65**	13.50	Yes
	802.11n(HT20)	100	5500	11.98	13.50	No
		116	5580	11.94	13.50	No
		140	5700	12.07	13.50	No
	802.11n(HT40)	102	5510	11.14	12.50	No
		118	5590	10.95	12.50	No
		134	5670	11.03	12.50	No
	802.11ac(VHT20)	100	5500	12.13	13.50	No

		116	5580	11.86	13.50	No
		140	5700	12.02	13.50	No
	802.11ac(VHT40)	102	5510	11.00	12.50	No
		118	5590	10.94	12.50	No
		134	5670	11.00	12.50	No
	802.11ac(VHT80)	106	5530	10.89	12.50	No
		122	5610	11.15	12.50	No
5.8 (5.725~5.850)	802.11a	149	5745	11.42	13.00	No
		157	5785	11.48	13.00	No
		165	5825	11.47	13.00	No
	802.11n(HT20)	149	5745	11.38	13.00	No
		157	5785	11.45	13.00	No
		165	5825	11.48	13.00	No
	802.11n(HT40)	151	5755	11.58	13.00	No
		159	5795	11.51	13.00	No
	802.11ac(VHT20)	149	5745	11.61	13.00	No
		157	5785	11.35	13.00	No
		165	5825	11.63	13.00	No
	802.11ac(VHT40)	151	5755	11.61	13.00	No
		159	5795	11.46	13.00	No
	802.11ac(VHT80)	155	5775	**11.53**	13.00	Yes

8.8.7 Power Reduced Level 3 of 5G WIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	18.04	19.50	No
		44	5220	18.12	19.50	No
		48	5240	18.10	19.50	No
	802.11n(HT20)	36	5180	15.90	17.50	No
		44	5220	17.91	19.50	No
		48	5240	17.92	19.50	No
	802.11n(HT40)	38	5190	14.56	16.00	No
		46	5230	16.93	18.50	No
	802.11ac(VHT20)	36	5180	17.35	19.00	No
		44	5220	17.93	19.50	No
		48	5240	17.92	19.50	No
	802.11ac(VHT40)	38	5190	14.87	16.50	No
		46	5230	16.90	18.50	No
	802.11ac(VHT80)	42	5210	15.58	17.00	No
5.3 (5.25~5.35)	802.11a	52	5260	18.05	19.50	No
		60	5300	**18.17**	19.50	Yes
		64	5320	15.41	17.00	No
	802.11n(HT20)	52	5260	17.95	19.50	No
		60	5300	17.96	19.50	No
		64	5320	15.62	17.00	No
	802.11n(HT40)	54	5270	17.95	18.50	No
		62	5310	13.92	15.50	No
	802.11ac(VHT20)	52	5260	18.05	18.50	No
		60	5300	18.11	19.50	No
		64	5320	16.63	18.00	No
	802.11ac(VHT40)	54	5270	17.13	18.50	No
		62	5310	15.93	17.50	No
	802.11ac(VHT80)	58	5290	14.86	16.50	No
5.6 (5.47~5.725)	802.11a	100	5500	16.50	17.50	No
		116	5580	**18.86**	19.50	Yes
		140	5700	15.20	16.00	No
	802.11n(HT20)	100	5500	15.04	16.50	No
		116	5580	18.14	19.50	No
		140	5700	13.88	15.50	No
	802.11n(HT40)	102	5510	13.61	15.00	No
		118	5590	16.91	18.50	No
		134	5670	14.10	15.50	No
	802.11ac(VHT20)	100	5500	15.94	17.50	No

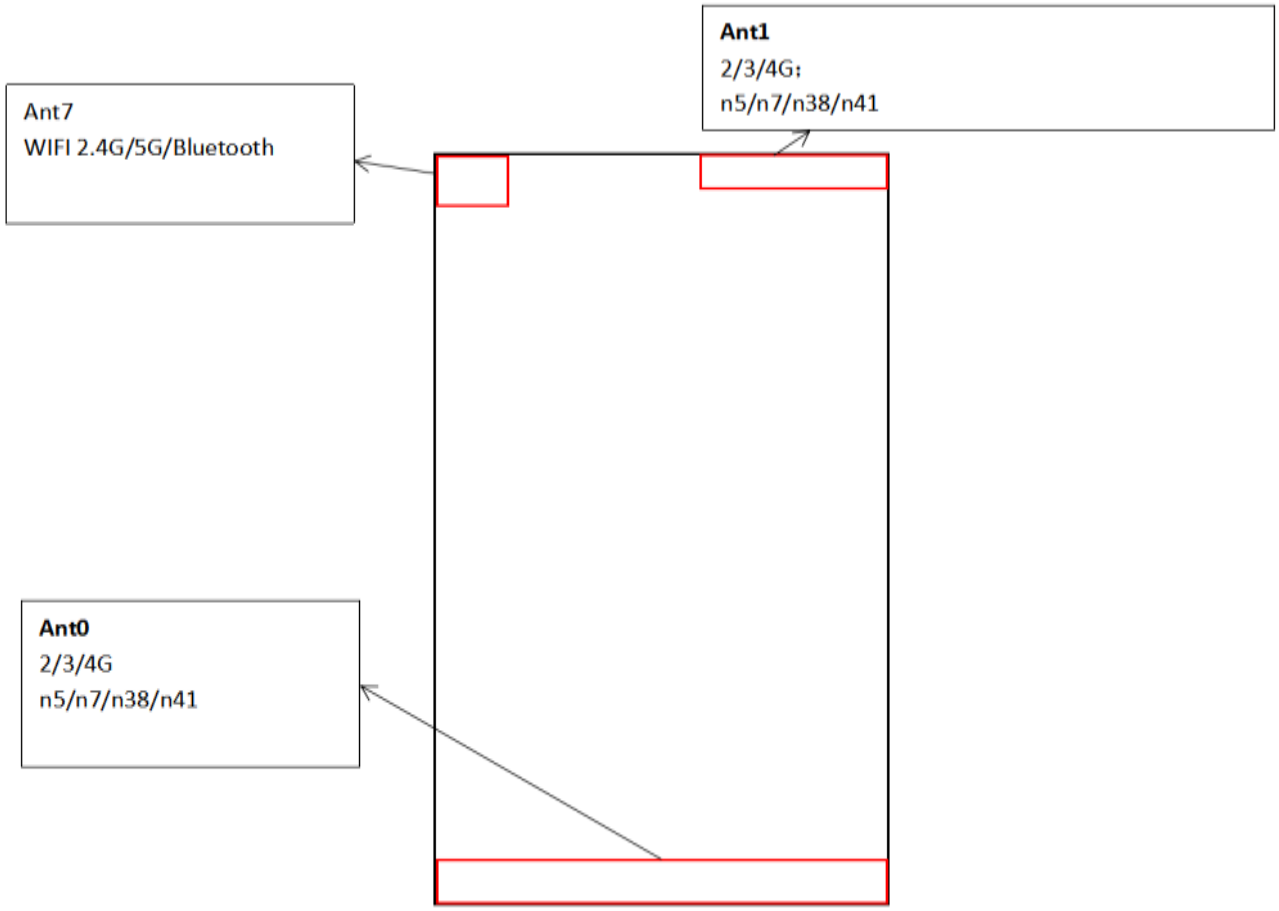
		116	5580	18.14	19.50	No
		140	5700	13.86	15.50	No
	802.11ac(VHT40)	102	5510	13.90	15.50	No
		118	5590	16.96	18.50	No
		134	5670	15.45	17.00	No
	802.11ac(VHT80)	106	5530	13.98	15.50	No
		122	5610	16.05	17.50	No
5.8 (5.725~5.850)	802.11a	149	5745	14.42	16.00	No
		157	5785	14.48	16.00	No
		165	5825	14.56	16.00	No
	802.11n(HT20)	149	5745	14.35	16.00	No
		157	5785	14.49	16.00	No
		165	5825	14.49	16.00	No
	802.11n(HT40)	151	5755	14.38	16.00	No
		159	5795	14.58	16.00	No
	802.11ac(VHT20)	149	5745	14.57	16.00	No
		157	5785	14.47	16.00	No
		165	5825	14.40	16.00	No
	802.11ac(VHT40)	151	5755	14.57	16.00	No
		159	5795	14.42	16.00	No
	802.11ac(VHT80)	155	5775	**14.61**	16.00	Yes

8.8.8 Power Reduced Level 4 of 5G WIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	18.04	19.50	No
		44	5220	**18.12**	19.50	Yes
		48	5240	18.10	19.50	No
	802.11n(HT20)	36	5180	15.90	17.50	No
		44	5220	17.91	19.50	No
		48	5240	17.92	19.50	No
	802.11n(HT40)	38	5190	14.56	16.00	No
		46	5230	16.93	18.50	No
	802.11ac(VHT20)	36	5180	17.35	19.00	No
		44	5220	17.93	19.50	No
		48	5240	17.92	19.50	No
	802.11ac(VHT40)	38	5190	14.87	16.50	No
		46	5230	16.90	18.50	No
	802.11ac(VHT80)	42	5210	15.58	17.00	No
5.3 (5.25~5.35)	802.11a	52	5260	18.05	19.50	No
		60	5300	18.17	19.50	No
		64	5320	15.41	17.00	No
	802.11n(HT20)	52	5260	17.95	19.50	No
		60	5300	17.96	19.50	No
		64	5320	15.62	17.00	No
	802.11n(HT40)	54	5270	17.95	18.50	No
		62	5310	13.92	15.50	No
	802.11ac(VHT20)	52	5260	18.05	18.50	No
		60	5300	18.11	19.50	No
		64	5320	16.63	18.00	No
	802.11ac(VHT40)	54	5270	17.13	18.50	No
		62	5310	15.93	17.50	No
	802.11ac(VHT80)	58	5290	14.86	16.50	No
5.6 (5.47~5.725)	802.11a	100	5500	16.50	17.50	No
		116	5580	18.86	19.50	No
		140	5700	15.20	16.00	No
	802.11n(HT20)	100	5500	15.04	16.50	No
		116	5580	18.14	19.50	No
		140	5700	13.88	15.50	No
	802.11n(HT40)	102	5510	13.61	15.00	No
		118	5590	16.91	18.50	No
		134	5670	14.10	15.50	No
	802.11ac(VHT20)	100	5500	15.94	17.50	No

		116	5580	18.14	19.50	No
		140	5700	13.86	15.50	No
	802.11ac(VHT40)	102	5510	13.90	15.50	No
		118	5590	16.96	18.50	No
		134	5670	15.45	17.00	No
	802.11ac(VHT80)	106	5530	13.98	15.50	No
		122	5610	16.05	17.50	No
5.8 (5.725~5.850)	802.11a	149	5745	14.42	16.00	No
		157	5785	14.48	16.00	No
		165	5825	14.56	16.00	No
	802.11n(HT20)	149	5745	14.35	16.00	No
		157	5785	14.49	16.00	No
		165	5825	14.49	16.00	No
	802.11n(HT40)	151	5755	14.38	16.00	No
		159	5795	14.58	16.00	No
	802.11ac(VHT20)	149	5745	14.57	16.00	No
		157	5785	14.47	16.00	No
		165	5825	14.40	16.00	No
	802.11ac(VHT40)	151	5755	14.57	16.00	No
		159	5795	14.42	16.00	No
	802.11ac(VHT80)	155	5775	**14.61**	16.00	Yes

9 TEST EXCLUSION CONSIDERATION



Antenna	Support Bands
ANT0	GSM 850/1900
	WCDMA B2/4/5
	LTE B2/4/5/7/12/17/26/66/38/41
	NR n5/n7/n38/n41
ANT1	GSM 850/1900
	WCDMA B2/4/5
	LTE B2/4/5/7/12/17/26/66/38/41
	NR n5/n7/n38/n41
ANT7	WLAN 2.4G/5G/Bluetooth

Antenna	Front Side (mm)	Back Side (mm)	Left Edge (mm)	Right Edge (mm)	Top Edge (mm)	Bottom Edge (mm)
ANT0	<5	<5	<5	<5	150	<5
ANT1	<5	<5	60	<5	<5	155
ANT7	<5	<5	<5	57	<5	155

9.1 SAR Test Exclusion Consideration Table

According with FCC KDB 447498 D01, Appendix A, <SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm> Table, this Device SAR test configurations consider as following :

ANT0

Band	Mode	Max. Peak Power		Test Position Configurations					
		dBm	mW	Head	Front/ Back	Left Edge	Right Edge	Top Edge	Bottom Edge
GSM 850	Distance to User			<5mm	<5mm	<5mm	<5mm	150mm	<5mm
	Voice	33.30	2137.96	Yes	Yes	Yes	Yes	No	Yes
	Data	33.30	2137.96	Yes	Yes	Yes	Yes	No	Yes
GSM 1900	Distance to User			<5mm	<5mm	<5mm	<5mm	150mm	<5mm
	Voice	30.30	1071.52	Yes	Yes	Yes	Yes	No	Yes
	Data	30.30	1071.52	Yes	Yes	Yes	Yes	No	Yes
WCDMA Band 2	Distance to User			<5mm	<5mm	<5mm	<5mm	150mm	<5mm
	RMC	23.80	239.88	Yes	Yes	Yes	Yes	No	Yes
WCDMA Band 4	Distance to User			<5mm	<5mm	<5mm	<5mm	150mm	<5mm
	RMC	23.80	239.88	Yes	Yes	Yes	Yes	No	Yes
WCDMA Band 5	Distance to User			<5mm	<5mm	<5mm	<5mm	150mm	<5mm
	RMC	24.30	269.15	Yes	Yes	Yes	Yes	No	Yes
LTE Band 2	Distance to User			<5mm	<5mm	<5mm	<5mm	150mm	<5mm
	QPSK	23.80	239.88	Yes	Yes	Yes	Yes	No	Yes
LTE Band 4	Distance to User			<5mm	<5mm	<5mm	<5mm	150mm	<5mm
	QPSK	23.80	239.88	Yes	Yes	Yes	Yes	No	Yes
LTE Band 5	Distance to User			<5mm	<5mm	<5mm	<5mm	150mm	<5mm
	QPSK	24.30	269.15	Yes	Yes	Yes	Yes	No	Yes
LTE Band 7	Distance to User			<5mm	<5mm	<5mm	<5mm	150mm	<5mm
	QPSK	23.50	223.87	Yes	Yes	Yes	Yes	No	Yes
LTE Band 12	Distance to User			<5mm	<5mm	<5mm	<5mm	150mm	<5mm
	QPSK	24.30	269.15	Yes	Yes	Yes	Yes	No	Yes
LTE Band 17	Distance to User			<5mm	<5mm	<5mm	<5mm	150mm	<5mm
	QPSK	24.30	269.15	Yes	Yes	Yes	Yes	No	Yes
LTE Band 26	Distance to User			<5mm	<5mm	<5mm	<5mm	150mm	<5mm
	QPSK	24.30	269.15	Yes	Yes	Yes	Yes	No	Yes
LTE Band 66	Distance to User			<5mm	<5mm	<5mm	<5mm	150mm	<5mm
	QPSK	23.80	239.88	Yes	Yes	Yes	Yes	No	Yes
LTE Band 38	Distance to User			<5mm	<5mm	<5mm	<5mm	150mm	<5mm
	QPSK	23.80	239.88	Yes	Yes	Yes	Yes	No	Yes
LTE Band 41	Distance to User			<5mm	<5mm	<5mm	<5mm	150mm	<5mm
	QPSK	23.80	239.88	Yes	Yes	Yes	Yes	No	Yes
NR n5	Distance to User			<5mm	<5mm	<5mm	<5mm	150mm	<5mm
	DFT-s-OFDM BPSK	24.30	269.15	Yes	Yes	Yes	Yes	No	Yes
NR n7	Distance to User			<5mm	<5mm	<5mm	<5mm	150mm	<5mm

	DFT-s-OFDM BPSK	23.50	223.87	Yes	Yes	Yes	Yes	No	Yes
NR n38	Distance to User			<5mm	<5mm	<5mm	<5mm	150mm	<5mm
	DFT-s-OFDM BPSK	23.80	239.88	Yes	Yes	Yes	Yes	No	Yes
NR n41	Distance to User			<5mm	<5mm	<5mm	<5mm	150mm	<5mm
	DFT-s-OFDM BPSK	23.80	239.88	Yes	Yes	Yes	Yes	No	Yes

ANT1

Band	Mode	Max. Peak Power		Test Position Configurations					
		dBm	mW	Head	Front/ Back	Left Edge	Right Edge	Top Edge	Bottom Edge
GSM 850	Distance to User			<5mm	<5mm	60mm	<5mm	<5mm	155mm
	Voice	33.30	2137.96	Yes	Yes	No	Yes	Yes	No
	Data	33.30	2137.96	Yes	Yes	No	Yes	Yes	No
GSM 1900	Distance to User			<5mm	<5mm	60mm	<5mm	<5mm	155mm
	Voice	30.30	1071.52	Yes	Yes	No	Yes	Yes	No
	Data	30.30	1071.52	Yes	Yes	No	Yes	Yes	No
WCDMA Band 2	Distance to User			<5mm	<5mm	60mm	<5mm	<5mm	155mm
	RMC	23.80	239.88	Yes	Yes	No	Yes	Yes	No
WCDMA Band 4	Distance to User			<5mm	<5mm	60mm	<5mm	<5mm	155mm
	RMC	23.80	239.88	Yes	Yes	No	Yes	Yes	No
WCDMA Band 5	Distance to User			<5mm	<5mm	60mm	<5mm	<5mm	155mm
	RMC	24.30	269.15	Yes	Yes	No	Yes	Yes	No
LTE Band 2	Distance to User			<5mm	<5mm	60mm	<5mm	<5mm	155mm
	QPSK	23.80	239.88	Yes	Yes	No	Yes	Yes	No
LTE Band 4	Distance to User			<5mm	<5mm	60mm	<5mm	<5mm	155mm
	QPSK	23.80	239.88	Yes	Yes	No	Yes	Yes	No
LTE Band 5	Distance to User			<5mm	<5mm	60mm	<5mm	<5mm	155mm
	QPSK	24.30	269.15	Yes	Yes	No	Yes	Yes	No
LTE Band 7	Distance to User			<5mm	<5mm	60mm	<5mm	<5mm	155mm
	QPSK	23.50	223.87	Yes	Yes	No	Yes	Yes	No
LTE Band 12	Distance to User			<5mm	<5mm	60mm	<5mm	<5mm	155mm
	QPSK	24.30	269.15	Yes	Yes	No	Yes	Yes	No
LTE Band 17	Distance to User			<5mm	<5mm	60mm	<5mm	<5mm	155mm
	QPSK	24.30	269.15	Yes	Yes	No	Yes	Yes	No
LTE Band 26	Distance to User			<5mm	<5mm	60mm	<5mm	<5mm	155mm
	QPSK	24.30	269.15	Yes	Yes	No	Yes	Yes	No
LTE Band 66	Distance to User			<5mm	<5mm	60mm	<5mm	<5mm	155mm
	QPSK	23.80	239.88	Yes	Yes	No	Yes	Yes	No
LTE Band 38	Distance to User			<5mm	<5mm	60mm	<5mm	<5mm	155mm
	QPSK	23.80	239.88	Yes	Yes	No	Yes	Yes	No
LTE	Distance to User			<5mm	<5mm	60mm	<5mm	<5mm	155mm

Band 41	QPSK	23.80	239.88	Yes	Yes	No	Yes	Yes	No
NR n5	Distance to User			<5mm	<5mm	60mm	<5mm	<5mm	155mm
	DFT-s-OFDM BPSK	24.30	269.15	Yes	Yes	No	Yes	Yes	No
NR n7	Distance to User			<5mm	<5mm	60mm	<5mm	<5mm	155mm
	DFT-s-OFDM BPSK	23.50	223.87	Yes	Yes	No	Yes	Yes	No
NR n38	Distance to User			<5mm	<5mm	60mm	<5mm	<5mm	155mm
	DFT-s-OFDM BPSK	23.80	239.88	Yes	Yes	No	Yes	Yes	No
NR n41	Distance to User			<5mm	<5mm	60mm	<5mm	<5mm	155mm
	DFT-s-OFDM BPSK	23.80	239.88	Yes	Yes	No	Yes	Yes	No

ANT7

Band	Mode	Max. Peak Power		Test Position Configurations					
		dBm	mW	Head	Front/ Back	Left Edge	Right Edge	Top Edge	Bottom Edge
WLAN 2.4 G	Distance to User			<5mm	<5mm	<5mm	57mm	<5mm	155mm
	802.11b	20.00	100.00	Yes	Yes	Yes	Yes	Yes	Yes
	802.11g	19.00	79.43	No	No	No	No	No	No
	802.11n(HT20)	19.00	79.43	No	No	No	No	No	No
	802.11n(HT40)	19.00	79.43	No	No	No	No	No	No
	802.11ac(VHT20)	19.00	79.43	No	No	No	No	No	No
	802.11ac(VHT40)	19.00	79.43	No	No	No	No	No	No
WLAN 5.2 G	Distance to User			<5mm	<5mm	<5mm	57mm	<5mm	155mm
	802.11a	19.50	89.13	No	No	No	No	No	No
	802.11n(HT20)	19.50	89.13	No	No	No	No	No	No
	802.11n(HT40)	18.50	70.79	No	No	No	No	No	No
	802.11ac(VHT20)	19.50	89.13	No	No	No	No	No	No
	802.11ac(VHT40)	18.50	70.79	No	No	No	No	No	No
	802.11ac(VHT80)	17.00	50.12	No	No	No	No	No	No
WLAN 5.3 G	Distance to User			<5mm	<5mm	<5mm	57mm	<5mm	155mm
	802.11a	19.50	89.13	Yes	Yes	Yes	Yes	Yes	Yes
	802.11n(HT20)	19.50	89.13	No	No	No	No	No	No
	802.11n(HT40)	18.50	70.79	No	No	No	No	No	No
	802.11ac(VHT20)	19.50	89.13	No	No	No	No	No	No
	802.11ac(VHT40)	18.50	70.79	No	No	No	No	No	No
	802.11ac(VHT80)	16.50	44.67	No	No	No	No	No	No
WLAN 5.6 G	Distance to User			<5mm	<5mm	<5mm	57mm	<5mm	155mm
	802.11a	19.50	89.13	Yes	Yes	Yes	Yes	Yes	Yes
	802.11n(HT20)	19.50	89.13	No	No	No	No	No	No
	802.11n(HT40)	18.50	70.79	No	No	No	No	No	No
	802.11ac(VHT20)	19.50	89.13	No	No	No	No	No	No
	802.11ac(VHT40)	18.50	70.79	No	No	No	No	No	No

	802.11ac(VHT80)	17.50	56.23	No	No	No	No	No	No
WLAN 5.8 G	Distance to User			<5mm	<5mm	<5mm	57mm	<5mm	155mm
	802.11a	16.00	39.81	No	No	No	No	No	No
	802.11n(HT20)	16.00	39.81	No	No	No	No	No	No
	802.11n(HT40)	16.00	39.81	No	No	No	No	No	No
	802.11ac(VHT20)	16.00	39.81	No	No	No	No	No	No
	802.11ac(VHT40)	16.00	39.81	No	No	No	No	No	No
	802.11ac(VHT80)	16.00	39.81	Yes	Yes	Yes	Yes	Yes	Yes
Bluetooth	Distance to User			<5mm	<5mm	<5mm	57mm	<5mm	155mm
	BR/EDR	14.50	28.18	Yes	Yes	Yes	Yes	Yes	Yes
	BLE	4.00	2.51	No	No	No	No	No	No

Note:

1. Maximum power is the source-based time-average power and represents the maximum RF output power including tune-up tolerance among production units
2. Per KDB 447498 D01, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
3. Per KDB 447498 D01, standalone SAR test exclusion threshold is applied; If the distance of the antenna to the user is < 5mm, 5mm is used to determine SAR exclusion threshold
4. Per KDB 447498 D01, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:
   [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·[√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR
   a. f(GHz) is the RF channel transmit frequency in GHz
   b. Power and distance are rounded to the nearest mW and mm before calculation
   c. The result is rounded to one decimal place for comparison
   d. For < 50 mm distance, we just calculate mW of the exclusion threshold value (3.0) to do compare.
   This formula is [3.0] / [√f(GHz)] ·[(min. test separation distance, mm)] = exclusion threshold of mW.
5. Per KDB 447498 D01, at 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following
   a. [Threshold at 50 mm in step 1) + (test separation distance - 50 mm)·(f(MHz)/150)] mW, at 100 MHz to 1500 MHz
   b. [Threshold at 50 mm in step 1) + (test separation distance - 50 mm)·10] mW at > 1500 MHz and ≤ 6 GHz
6. Per KDB 941225 D01, RMC 12.2kbps setting is used to evaluate SAR. If HSDPA /HSUPA /DC-HSDPA output power is < 0.25dB higher than RMC12.2Kbps, or reported SAR with RMC 12.2kbps setting is ≤ 1.2W/kg, HSDPA/HSUPA/DC-HSDPA SAR evaluation can be excluded.
7. Per KDB 248227 D01, choose the highest output power channel to test SAR and determine further SAR exclusion.8. For each frequency band, testing at higher data rates and higher order modulations is not required when the maximum average output power for each of these configurations is less than 1/4dB higher than those measured at the lowest data rate
8. Per KDB 248227 D01 SAR is not required for the following 2.4 GHz OFDM conditions.
   a. When KDB Publication 447498 D01 SAR test exclusion applies to the OFDM configuration.
   b. 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.
9. Per KDB 248227 D01 SAR is not required for the following U-NII-1 and U-NII-2A bands conditions.
   a. When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by

applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.

b. When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest reported SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for the band with lower maximum output power in that test configuration; otherwise, each band is tested independently for SAR.

10 TEST RESULT

10.1 GSM 850

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head													
ANT1	Level1	GPRS (4slots)	Left Cheek	0	190	836.6	0.17	0.370	23.14	24.30	1.307	0.483	/
	Level1		Left Tilt	0	190	836.6	0.15	0.280	23.14	24.30	1.307	0.366	/
	Level1		Right Cheek	0	190	836.6	-0.09	0.536	23.14	24.30	1.307	**0.701**	1#
	Level1		Right Tilt	0	190	836.6	-0.19	0.412	23.14	24.30	1.307	0.538	/
ANT1	Level2&3	GPRS (4slots)	Left Cheek	0	251	848.8	-0.10	0.200	20.57	21.30	1.184	0.237	/
	Level2&3		Left Tilt	0	251	848.8	0.11	0.156	20.57	21.30	1.184	0.185	/
	Level2&3		Right Cheek	0	251	848.8	0.10	0.266	20.57	21.30	1.184	0.315	/
	Level2&3		Right Tilt	0	251	848.8	-0.04	0.182	20.57	21.30	1.184	0.216	/
ANT0	Level1&2&3	GPRS (4slots)	Left Cheek	0	190	836.6	-0.02	0.241	27.38	28.30	1.237	0.298	/
	Level1&2&3		Left Tilt	0	190	836.6	0.11	0.133	27.38	28.30	1.237	0.165	/
	Level1&2&3		Right Cheek	0	190	836.6	-0.03	0.512	27.38	28.30	1.237	0.634	/
	Level1&2&3		Right Tilt	0	190	836.6	-0.01	0.106	27.38	28.30	1.237	0.131	/
Body-worn Accessory													
ANT1	Level4	Voice	Front Side	15	190	836.6	0.17	0.124	31.37	33.30	1.560	0.193	/
	Level4		Back Side	15	190	836.6	0.03	0.144	31.37	33.30	1.560	0.225	/
	Level4	GPRS (4slots)	Front Side	15	190	836.6	0.02	0.142	27.38	28.30	1.237	0.176	/
	Level4		Back Side	15	190	836.6	0.12	0.163	27.38	28.30	1.237	0.202	/
ANT0	Level4	Voice	Front Side	15	190	836.6	0.02	0.106	31.37	33.30	1.560	0.165	/
	Level4		Back Side	15	190	836.6	-0.02	0.139	31.37	33.30	1.560	0.217	/
	Level4	GPRS (4slots)	Front Side	15	190	836.6	-0.03	0.174	27.38	28.30	1.237	0.215	/
	Level4		Back Side	15	190	836.6	-0.06	0.194	27.38	28.30	1.237	**0.240**	2#
Hotspot													
ANT1	Level5&6	Voice	Front Side	10	190	836.6	0.08	0.220	31.37	33.30	1.560	0.343	/
	Level5&6		Back Side	10	190	836.6	0.06	0.266	31.37	33.30	1.560	0.415	/
	Level5&6	GPRS (4slots)	Front Side	10	190	836.6	-0.07	0.241	27.38	28.30	1.237	0.298	/
	Level5&6		Back Side	10	190	836.6	0.08	0.287	27.38	28.30	1.237	0.355	/
	Level5&6		Right Edge	10	190	836.6	-0.10	0.091	27.38	28.30	1.237	0.113	/
	Level5&6		Top Edge	10	190	836.6	0.06	0.197	27.38	28.30	1.237	0.244	/
ANT0	Level5&6	Voice	Front Side	10	190	836.6	-0.13	0.118	31.37	33.30	1.560	0.184	/
	Level5&6		Back Side	10	190	836.6	-0.14	0.238	31.37	33.30	1.560	0.371	/
	Level5&6	GPRS (4slots)	Front Side	10	190	836.6	0.12	0.194	27.38	28.30	1.237	0.240	/
	Level5&6		Back Side	10	190	836.6	-0.05	0.320	27.38	28.30	1.237	**0.396**	3#
	Level5&6		Left Edge	10	190	836.6	-0.17	0.101	27.38	28.30	1.237	0.125	/
	Level5&6		Right Edge	10	190	836.6	-0.06	0.169	27.38	28.30	1.237	0.209	/
	Level5&6		Bottom Edge	10	190	836.6	-0.16	0.246	27.38	28.30	1.237	0.304	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

10.2 GSM 1900

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head													
ANT1	Level1	GPRS (3slots)	Left Cheek	0	661	1880.0	0.04	0.269	17.30	18.30	1.260	0.339	/
	Level1		Left Tilt	0	661	1880.0	-0.10	0.314	17.30	18.30	1.260	0.396	/
	Level1		Right Cheek	0	661	1880.0	-0.06	0.318	17.30	18.30	1.260	0.401	/
	Level1		Right Tilt	0	661	1880.0	-0.10	0.478	17.30	18.30	1.260	**0.602**	4#
ANT1	Level2&3	GPRS (3slots)	Left Cheek	0	661	1880.0	-0.02	0.182	15.78	16.80	1.264	0.230	/
	Level2&3		Left Tilt	0	661	1880.0	0.12	0.219	15.78	16.80	1.264	0.277	/
	Level2&3		Right Cheek	0	661	1880.0	0.10	0.263	15.78	16.80	1.264	0.332	/
	Level2&3		Right Tilt	0	661	1880.0	0.05	0.321	15.78	16.80	1.264	0.406	/
ANT0	Level1&2&3	GPRS (4slots)	Left Cheek	0	512	1850.2	0.04	0.089	24.93	25.80	1.221	0.109	/
	Level1&2&3		Left Tilt	0	512	1850.2	-0.08	0.052	24.93	25.80	1.221	0.063	/
	Level1&2&3		Right Cheek	0	512	1850.2	-0.07	0.058	24.93	25.80	1.221	0.071	/
	Level1&2&3		Right Tilt	0	512	1850.2	-0.17	0.047	24.93	25.80	1.221	0.057	/
Body-worn Accessory													
ANT1	Level4	Voice	Front Side	15	512	1850.2	0.15	0.088	24.94	26.30	1.368	0.120	/
	Level4		Back Side	15	512	1850.2	-0.09	0.109	24.94	26.30	1.368	0.149	/
	Level4	GPRS (3slots)	Front Side	15	512	1850.2	-0.08	0.104	21.50	21.80	1.072	0.112	/
	Level4		Back Side	15	512	1850.2	-0.07	0.122	21.50	21.80	1.072	0.131	/
ANT0	Level4	Voice	Front Side	15	512	1850.2	0.18	0.108	27.79	29.30	1.416	0.153	/
	Level4		Back Side	15	512	1850.2	0.04	0.187	27.79	29.30	1.416	0.265	/
	Level4	GPRS (3slots)	Front Side	15	512	1850.2	0.18	0.141	24.38	25.30	1.235	0.174	/
	Level4		Back Side	15	512	1850.2	0.09	0.215	24.38	25.30	1.235	**0.266**	5#
Hotspot													
ANT1	Level5&6	Voice	Front Side	10	512	1850.2	0.06	0.118	22.93	24.30	1.371	0.162	/
	Level5&6		Back Side	10	512	1850.2	-0.12	0.137	22.93	24.30	1.371	0.188	/
	Level5&6	GPRS (3slots)	Front Side	10	512	1850.2	-0.10	0.129	19.48	19.80	1.076	0.139	/
	Level5&6		Back Side	10	512	1850.2	-0.16	0.151	19.48	19.80	1.076	0.163	/
	Level5&6		Right Edge	10	512	1850.2	-0.15	0.000	19.48	19.80	1.076	0.000	/
	Level5&6		Top Edge	10	512	1850.2	0.07	0.277	19.48	19.80	1.076	0.298	/
ANT0	Level5&6	Voice	Front Side	10	512	1850.2	0.04	0.137	25.98	27.30	1.355	0.186	/
	Level5&6		Back Side	10	512	1850.2	-0.05	0.238	25.98	27.30	1.355	0.323	/
	Level5&6	GPRS (3slots)	Front Side	10	512	1850.2	-0.18	0.160	22.41	22.80	1.094	0.175	/
	Level5&6		Back Side	10	512	1850.2	0.05	0.272	22.41	22.80	1.094	0.298	/
	Level5&6		Left Edge	10	512	1850.2	-0.12	0.063	22.41	22.80	1.094	0.069	/
	Level5&6		Right Edge	10	512	1850.2	0.08	0.000	22.41	22.80	1.094	0.000	/
	Level5&6		Bottom Edge	10	512	1850.2	-0.03	0.409	22.41	22.80	1.094	**0.447**	6#

Note: Refer to ANNEX C for the detailed test data for each test configuration.

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
Specific													
ANT1	Level4	GPRS (3slots)	Top Edge	0	512	1850.2	0.03	1.060	18.80	20.30	1.414	**1.498**	7#
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

10.3WCDMA Band 2

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head													
ANT1	Level1&2&3	RMC	Left Cheek	0	9262	1852.4	-0.08	0.376	13.35	14.30	1.245	0.467	/
	Level1&2&3		Left Tilt	0	9262	1852.4	0.06	0.458	13.35	14.30	1.245	0.570	/
	Level1&2&3		Right Cheek	0	9262	1852.4	-0.09	0.553	13.35	14.30	1.245	0.688	/
	Level1&2&3		Right Tilt	0	9262	1852.4	-0.01	0.686	13.35	14.30	1.245	**0.854**	8#
	Level1&2&3			0	9400	1880.0	-0.18	0.615	13.29	14.30	1.262	0.776	/
	Level1&2&3			0	9538	1907.6	0.01	0.632	13.19	14.30	1.291	0.816	/
ANT0	Level1&2&3	RMC	Left Cheek	0	9262	1852.4	0.07	0.111	22.79	23.80	1.262	0.140	/
	Level1&2&3		Left Tilt	0	9262	1852.4	-0.14	0.062	22.79	23.80	1.262	0.078	/
	Level1&2&3		Right Cheek	0	9262	1852.4	-0.06	0.076	22.79	23.80	1.262	0.096	/
	Level1&2&3		Right Tilt	0	9262	1852.4	-0.16	0.060	22.79	23.80	1.262	0.076	/
Body-worn Accessory													
ANT1	Level4	RMC	Front Side	15	9262	1852.4	-0.10	0.163	17.86	18.80	1.242	0.202	/
	Level4		Back Side	15	9262	1852.4	0.17	0.217	17.86	18.80	1.242	**0.269**	9#
ANT0	Level4	RMC	Front Side	15	9400	1880.0	0.13	0.118	19.50	20.80	1.349	0.159	/
	Level4		Back Side	15	9400	1880.0	0.12	0.182	19.50	20.80	1.349	0.246	/
Hotspot													
ANT1	Level5&6	RMC	Front Side	10	9262	1852.4	-0.07	0.195	15.90	16.80	1.230	0.240	/
	Level5&6		Back Side	10	9262	1852.4	-0.05	0.252	15.90	16.80	1.230	0.310	/
	Level5&6		Right Edge	10	9262	1852.4	-0.07	0.033	15.90	16.80	1.230	0.041	/
	Level5&6		Top Edge	10	9262	1852.4	0.13	0.445	15.90	16.80	1.230	**0.547**	10#
ANT0	Level5&6	RMC	Front Side	10	9262	1852.4	0.01	0.132	17.77	18.80	1.268	0.167	/
	Level5&6		Back Side	10	9262	1852.4	-0.13	0.223	17.77	18.80	1.268	0.283	/
	Level5&6		Left Edge	10	9262	1852.4	-0.16	0.055	17.77	18.80	1.268	0.070	/
	Level5&6		Right Edge	10	9262	1852.4	0.02	0.021	17.77	18.80	1.268	0.027	/
	Level5&6		Bottom Edge	10	9262	1852.4	-0.04	0.368	17.77	18.80	1.268	0.466	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
Specific													
ANT1	Level4	RMC	Front Side	0	9262	1852.4	0.13	0.989	17.86	18.80	1.242	1.228	/
	Level4		Back Side	0	9262	1852.4	0.09	0.593	17.86	18.80	1.242	0.736	/
	Level4		Top Edge	0	9262	1852.4	-0.15	1.300	17.86	18.80	1.242	**1.614**	11#
ANT0	Level4	RMC	Bottom Edge	0	9400	1880.0	0.03	1.110	19.50	20.80	1.349	1.497	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

10.4WCDMA Band 4

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head													
ANT1	Level1	RMC	Left Cheek	0	1412	1732.4	0.12	0.214	12.26	12.80	1.132	0.242	/
	Level1		Left Tilt	0	1412	1732.4	-0.09	0.252	12.26	12.80	1.132	0.285	/
	Level1		Right Cheek	0	1412	1732.4	-0.09	0.329	12.26	12.80	1.132	0.373	/
	Level1		Right Tilt	0	1412	1732.4	0.08	0.438	12.26	12.80	1.132	**0.496**	12#
ANT1	Level2&3	RMC	Left Cheek	0	1412	1732.4	-0.19	0.136	9.96	11.80	1.528	0.208	/
	Level2&3		Left Tilt	0	1412	1732.4	-0.09	0.159	9.96	11.80	1.528	0.243	/
	Level2&3		Right Cheek	0	1412	1732.4	-0.16	0.208	9.96	11.80	1.528	0.318	/
	Level2&3		Right Tilt	0	1412	1732.4	0.13	0.213	9.96	11.80	1.528	0.325	/
ANT0	Level1&2&3	RMC	Left Cheek	0	1412	1732.4	-0.15	0.106	23.28	23.80	1.127	0.119	/
	Level1&2&3		Left Tilt	0	1412	1732.4	-0.10	0.047	23.28	23.80	1.127	0.053	/
	Level1&2&3		Right Cheek	0	1412	1732.4	-0.05	0.075	23.28	23.80	1.127	0.085	/
	Level1&2&3		Right Tilt	0	1412	1732.4	-0.19	0.061	23.28	23.80	1.127	0.069	/
Body-worn Accessory													
ANT1	Level4	RMC	Front Side	15	1412	1732.4	0.03	0.127	17.61	18.30	1.172	0.149	/
	Level4		Back Side	15	1412	1732.4	-0.15	0.132	17.61	18.30	1.172	0.155	/
ANT0	Level4	RMC	Front Side	15	1412	1732.4	-0.15	0.098	18.14	18.80	1.164	0.114	/
	Level4		Back Side	15	1412	1732.4	0.19	0.140	18.14	18.80	1.164	**0.163**	13#
Hotspot													
ANT1	Level5&6	RMC	Front Side	10	1412	1732.4	-0.09	0.179	15.73	16.30	1.140	0.204	/
	Level5&6		Back Side	10	1412	1732.4	0.00	0.176	15.73	16.30	1.140	0.201	/
	Level5&6		Right Edge	10	1412	1732.4	0.09	0.032	15.73	16.30	1.140	0.036	/
	Level5&6		Top Edge	10	1412	1732.4	0.16	0.275	15.73	16.30	1.140	**0.314**	14#
ANT0	Level5&6	RMC	Front Side	10	1412	1732.4	-0.09	0.106	15.95	16.80	1.216	0.129	/
	Level5&6		Back Side	10	1412	1732.4	-0.09	0.174	15.95	16.80	1.216	0.212	/
	Level5&6		Left Edge	10	1412	1732.4	-0.06	0.035	15.95	16.80	1.216	0.043	/
	Level5&6		Right Edge	10	1412	1732.4	-0.04	0.015	15.95	16.80	1.216	0.018	/
	Level5&6		Bottom Edge	10	1412	1732.4	-0.03	0.236	15.95	16.80	1.216	0.287	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
Specific													
ANT1	Level4	RMC	Top Edge	0	1412	1732.4	-0.13	0.684	17.61	18.30	1.172	0.802	/
ANT0	Level4	RMC	Bottom Edge	0	1412	1732.4	-0.13	1.100	18.14	18.80	1.164	**1.281**	15#
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

10.5WCDMA Band 5

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head													
ANT1	Level1	RMC	Left Cheek	0	4182	836.4	-0.15	0.573	21.15	22.30	1.303	0.747	/
	Level1		Left Tilt	0	4182	836.4	-0.06	0.496	21.15	22.30	1.303	0.646	/
	Level1		Right Cheek	0	4182	836.4	-0.04	0.633	21.15	22.30	1.303	**0.825**	16#
	Level1			0	4132	826.4	0.02	0.612	21.11	22.30	1.315	0.805	/
	Level1			0	4233	846.6	0.15	0.606	21.09	22.30	1.321	0.801	/
	Level1		Right Tilt	0	4182	836.4	-0.19	0.613	21.15	22.30	1.303	0.799	/
ANT1	Level2&3	RMC	Left Cheek	0	4132	826.4	0.06	0.365	18.98	20.30	1.355	0.495	/
	Level2&3		Left Tilt	0	4132	826.4	0.15	0.309	18.98	20.30	1.355	0.419	/
	Level2&3		Right Cheek	0	4132	826.4	-0.15	0.498	18.98	20.30	1.355	0.675	/
	Level2&3		Right Tilt	0	4132	826.4	0.05	0.387	18.98	20.30	1.355	0.524	/
ANT0	Level1&2&3	RMC	Left Cheek	0	4182	836.4	0.03	0.154	23.17	24.30	1.297	0.200	/
	Level1&2&3		Left Tilt	0	4182	836.4	-0.11	0.080	23.17	24.30	1.297	0.104	/
	Level1&2&3		Right Cheek	0	4182	836.4	-0.16	0.119	23.17	24.30	1.297	0.154	/
	Level1&2&3		Right Tilt	0	4182	836.4	0.10	0.062	23.17	24.30	1.297	0.080	/
Body-worn Accessory													
ANT1	Level4	RMC	Front Side	15	4182	836.4	0.13	0.136	23.17	24.30	1.297	0.176	/
	Level4		Back Side	15	4182	836.4	-0.02	0.137	23.17	24.30	1.297	**0.178**	17#
ANT0	Level4	RMC	Front Side	15	4132	826.4	-0.17	0.088	22.35	23.30	1.245	0.110	/
	Level4		Back Side	15	4132	826.4	0.02	0.122	22.35	23.30	1.245	0.152	/
Hotspot													
ANT1	Level5&6	RMC	Front Side	10	4182	836.4	0.01	0.132	21.11	22.30	1.315	0.174	/
	Level5&6		Back Side	10	4182	836.4	-0.11	0.150	21.11	22.30	1.315	**0.197**	18#
	Level5&6		Right Edge	10	4182	836.4	0.04	0.071	21.11	22.30	1.315	0.093	/
	Level5&6		Top Edge	10	4182	836.4	0.15	0.115	21.11	22.30	1.315	0.151	/
ANT0	Level5&6	RMC	Front Side	10	4132	826.4	0.13	0.059	20.15	21.30	1.303	0.077	/
	Level5&6		Back Side	10	4132	826.4	-0.05	0.113	20.15	21.30	1.303	0.147	/
	Level5&6		Left Edge	10	4132	826.4	0.00	0.015	20.15	21.30	1.303	0.020	/
	Level5&6		Right Edge	10	4132	826.4	0.16	0.056	20.15	21.30	1.303	0.073	/
	Level5&6		Bottom Edge	10	4132	826.4	0.06	0.069	20.15	21.30	1.303	0.090	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

10.6 LTE Band 2 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
ANT1	Level1&2&3	QPSK	Left Cheek	0	18900	1880	1	Mid	0.16	0.416	14.33	15.30	1.250	0.520	/
	Level1&2&3			0	19100	1900	1	Low	0.16	0.407	14.43	15.30	1.222	0.497	/
	Level1&2&3		Left Tilt	0	18900	1880	1	Mid	0.09	0.491	14.33	15.30	1.250	0.614	/
	Level1&2&3			0	19100	1900	1	Low	0.08	0.481	14.43	15.30	1.222	0.588	/
	Level1&2&3		Right Cheek	0	18900	1880	1	Mid	0.03	0.638	14.33	15.30	1.250	0.798	/
	Level1&2&3			0	19100	1900	1	Low	-0.02	0.626	14.43	15.30	1.222	0.765	/
	Level1&2&3		Right Tilt	0	18900	1880	1	Mid	0.18	0.836	14.33	15.30	1.250	1.045	/
	Level1&2&3			0	18700	1860	1	Mid	0.05	0.782	14.29	15.30	1.262	0.987	/
	Level1&2&3			0	19100	1900	1	Mid	0.01	0.821	14.30	15.30	1.259	1.034	/
	Level1&2&3			0	19100	1900	50	Low	0.04	0.833	14.43	15.30	1.222	1.018	/
	Level1&2&3			0	18700	1860	50	Low	0.03	0.881	14.38	15.30	1.236	**1.089**	19#
	Level1&2&3			0	18900	1880	50	Low	0.04	0.833	14.41	15.30	1.227	1.022	/
	Level1&2&3			0	18700	1860	100	Low	-0.01	0.836	14.36	15.30	1.242	1.038	/
ANT0	Level1&2&3	QPSK	Left Cheek	0	18700	1860	1	Mid	-0.02	0.107	22.94	23.80	1.219	0.130	/
	Level1&2&3			0	18900	1880	50	Low	0.18	0.078	22.04	22.80	1.191	0.093	/
	Level1&2&3		Left Tilt	0	18700	1860	1	Mid	0.16	0.063	22.94	23.80	1.219	0.077	/
	Level1&2&3			0	18900	1880	50	Low	0.11	0.048	22.04	22.80	1.191	0.057	/
	Level1&2&3		Right Cheek	0	18700	1860	1	Mid	-0.18	0.075	22.94	23.80	1.219	0.091	/
	Level1&2&3			0	18900	1880	50	Low	-0.14	0.058	22.04	22.80	1.191	0.069	/
	Level1&2&3		Right Tilt	0	18700	1860	1	Mid	0.19	0.062	22.94	23.80	1.219	0.076	/
	Level1&2&3			0	18900	1880	50	Low	-0.13	0.047	22.04	22.80	1.191	0.056	/
Body-worn Accessory															
ANT1	Level4	QPSK	Front Side	15	18900	1880	1	Mid	-0.11	0.208	19.27	19.80	1.130	0.235	/
	Level4			15	19100	1900	50	Low	0.12	0.206	19.31	19.80	1.119	0.231	/
	Level4		Back Side	15	18900	1880	1	Mid	0.17	0.294	19.27	19.80	1.130	**0.332**	20#
	Level4			15	19100	1900	50	Low	-0.10	0.271	19.31	19.80	1.119	0.303	/
ANT0	Level4	QPSK	Front Side	15	18700	1860	1	Mid	-0.09	0.166	20.97	21.80	1.211	0.201	/
	Level4			15	19100	1900	50	Low	-0.04	0.167	21.10	21.80	1.175	0.196	/
	Level4		Back Side	15	18900	1880	1	Mid	0.19	0.244	20.97	21.80	1.211	0.295	/
	Level4			15	19100	1900	50	Low	-0.18	0.250	21.10	21.80	1.175	0.294	/
Hotspot															
ANT1	Level5&6	QPSK	Front Side	10	18900	1880	1	Mid	-0.19	0.261	17.04	17.80	1.191	0.311	/
	Level5&6			10	18900	1880	50	Low	0.05	0.251	17.17	17.80	1.156	0.290	/
	Level5&6		Back Side	10	18900	1880	1	Mid	0.05	0.323	17.04	17.80	1.191	0.385	/
	Level5&6			10	18900	1880	50	Low	0.04	0.309	17.17	17.80	1.156	0.357	/
	Level5&6		Right Edge	10	18900	1880	1	Mid	0.14	0.048	17.04	17.80	1.191	0.057	/
	Level5&6			10	18900	1880	50	Low	-0.09	0.047	17.17	17.80	1.156	0.054	/
	Level5&6		Top Edge	10	18900	1880	1	Mid	0.10	0.580	17.04	17.80	1.191	**0.691**	21#
	Level5&6			10	18900	1880	50	Low	-0.12	0.524	17.17	17.80	1.156	0.606	/

ANT0	Level5&6	QPSK	Front Side	10	18900	1880	1	Mid	0.11	0.172	18.98	19.80	1.208	0.208	/
	Level5&6			10	18900	1880	50	Mid	0.15	0.167	18.98	19.80	1.208	0.202	/
	Level5&6		Back Side	10	18900	1880	1	Mid	0.08	0.282	18.98	19.80	1.208	0.341	/
	Level5&6			10	18900	1880	50	Mid	0.07	0.269	18.98	19.80	1.208	0.325	/
	Level5&6		Left Edge	10	18900	1880	1	Mid	-0.13	0.078	18.98	19.80	1.208	0.094	/
	Level5&6			10	18900	1880	50	Mid	-0.12	0.076	18.98	19.80	1.208	0.092	/
	Level5&6		Right Edge	10	18900	1880	1	Mid	0.06	0.044	18.98	19.80	1.208	0.053	/
	Level5&6			10	18900	1880	50	Mid	-0.05	0.045	18.98	19.80	1.208	0.054	/
	Level5&6		Bottom Edge	10	18900	1880	1	Mid	-0.05	0.434	18.98	19.80	1.208	0.524	/
	Level5&6			10	18900	1880	50	Mid	-0.09	0.483	18.98	19.80	1.208	0.583	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
Specific															
ANT1	Level4	QPSK	Front Side	0	18900	1880	1	Mid	-0.08	1.330	19.27	19.80	1.130	1.503	/
	Level4			0	19100	1900	50	Low	0.11	1.350	19.31	19.80	1.119	1.511	/
	Level4		Back Side	0	18900	1880	1	Mid	0.04	0.865	19.27	19.80	1.130	0.977	/
	Level4			0	19100	1900	50	Low	0.13	0.934	19.31	19.80	1.119	1.046	/
	Level4		Top Edge	0	18900	1880	1	Mid	-0.07	1.700	19.27	19.80	1.130	**1.921**	22#
	Level4			0	19100	1900	50	Low	-0.03	1.580	19.31	19.80	1.119	1.769	/
ANT0	Level4	QPSK	Bottom Edge	0	18900	1880	1	Mid	-0.01	1.410	20.97	21.80	1.211	1.707	/
	Level4			0	19100	1900	50	Low	0.01	1.520	21.10	21.80	1.175	1.786	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.7 LTE Band 4 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
ANT1	Level1	QPSK	Left Cheek	0	20175	1732.5	1	Mid	-0.10	0.298	13.82	14.30	1.117	0.333	/
	Level1			0	20050	1720	50	High	0.10	0.317	13.83	14.30	1.114	0.353	/
	Level1		Left Tilt	0	20175	1732.5	1	Mid	0.05	0.343	13.82	14.30	1.117	0.383	/
	Level1			0	20050	1720	50	High	-0.19	0.363	13.83	14.30	1.114	0.404	/
	Level1		Right Cheek	0	20175	1732.5	1	Mid	-0.01	0.457	13.82	14.30	1.117	0.510	/
	Level1			0	20050	1720	50	High	-0.12	0.481	13.83	14.30	1.114	0.536	/
	Level1		Right Tilt	0	20175	1732.5	1	Mid	-0.14	0.567	13.82	14.30	1.117	0.633	/
	Level1			0	20050	1720	50	High	0.03	0.584	13.83	14.30	1.114	**0.651**	23#
ANT1	Level2&3	QPSK	Left Cheek	0	20175	1732.5	1	Mid	0.12	0.192	11.56	12.30	1.186	0.228	/
	Level2&3			0	20050	1720	50	Mid	-0.19	0.194	11.57	12.30	1.183	0.230	/
	Level2&3		Left Tilt	0	20175	1732.5	1	Mid	0.04	0.216	11.56	12.30	1.186	0.256	/
	Level2&3			0	20050	1720	50	Mid	-0.15	0.226	11.57	12.30	1.183	0.267	/
	Level2&3		Right Cheek	0	20175	1732.5	1	Mid	-0.19	0.281	11.56	12.30	1.186	0.333	/
	Level2&3			0	20050	1720	50	Mid	0.15	0.306	11.57	12.30	1.183	0.362	/
	Level2&3		Right Tilt	0	20175	1732.5	1	Mid	0.08	0.300	11.56	12.30	1.186	0.356	/
	Level2&3			0	20050	1720	50	Mid	-0.07	0.311	11.57	12.30	1.183	0.368	/
ANT0	Level1&2&3	QPSK	Left Cheek	0	20175	1732.5	1	Mid	-0.14	0.125	23.32	23.80	1.117	0.140	/
	Level1&2&3			0	20050	1720	50	Mid	-0.07	0.091	22.31	22.80	1.119	0.102	/
	Level1&2&3		Left Tilt	0	20175	1732.5	1	Mid	-0.08	0.061	23.32	23.80	1.117	0.068	/
	Level1&2&3			0	20050	1720	50	Mid	0.09	0.052	22.31	22.80	1.119	0.058	/
	Level1&2&3		Right Cheek	0	20175	1732.5	1	Mid	0.04	0.074	23.32	23.80	1.117	0.083	/
	Level1&2&3			0	20050	1720	50	Mid	-0.09	0.055	22.31	22.80	1.119	0.062	/
	Level1&2&3		Right Tilt	0	20175	1732.5	1	Mid	0.11	0.066	23.32	23.80	1.117	0.074	/
	Level1&2&3			0	20050	1720	50	Mid	0.16	0.050	22.31	22.80	1.119	0.056	/
Body-worn Accessory															
ANT1	Level4	QPSK	Front Side	15	20175	1732.5	1	Mid	0.10	0.208	19.29	19.80	1.125	0.234	/
	Level4			15	20050	1720	50	High	-0.19	0.204	19.41	19.80	1.094	0.223	/
	Level4		Back Side	15	20175	1732.5	1	Mid	-0.13	0.226	19.29	19.80	1.125	**0.254**	24#
	Level4			15	20050	1720	50	High	0.16	0.204	19.41	19.80	1.094	0.223	/
ANT0	Level4	QPSK	Front Side	15	20050	1720	1	Mid	-0.19	0.135	19.75	20.30	1.135	0.153	/
	Level4			15	20050	1720	50	Mid	0.07	0.135	19.71	20.30	1.146	0.155	/
	Level4		Back Side	15	20050	1720	1	Mid	-0.13	0.187	19.75	20.30	1.135	0.212	/
	Level4			15	20050	1720	50	Mid	-0.10	0.182	19.71	20.30	1.146	0.208	/
Hotspot															
ANT1	Level5&6	QPSK	Front Side	10	20175	1732.5	1	Mid	0.02	0.257	17.24	17.80	1.138	0.292	/
	Level5&6			10	20050	1720	50	Mid	0.15	0.263	17.28	17.80	1.127	0.296	/
	Level5&6		Back Side	10	20175	1732.5	1	Mid	0.05	0.252	17.24	17.80	1.138	0.287	/
	Level5&6			10	20050	1720	50	High	-0.04	0.261	17.28	17.80	1.127	0.294	/
	Level5&6		Right Edge	10	20175	1732.5	1	Mid	0.10	0.042	17.24	17.80	1.138	0.048	/

	Level5&6			10	20050	1720	50	High	0.14	0.043	17.28	17.80	1.127	0.048	/
	Level5&6		Top Edge	10	20175	1732.5	1	Mid	0.11	0.407	17.24	17.80	1.138	**0.463**	25#
	Level5&6			10	20050	1720	50	High	-0.17	0.398	17.28	17.80	1.127	0.449	/
ANT0	Level5&6	QPSK	Front Side	10	20175	1732.5	1	Mid	0.06	0.134	17.57	18.30	1.183	0.159	/
	Level5&6			10	20050	1720	50	Mid	-0.09	0.140	17.54	18.30	1.191	0.167	/
	Level5&6		Back Side	10	20175	1732.5	1	Mid	-0.03	0.216	17.57	18.30	1.183	0.256	/
	Level5&6			10	20050	1720	50	Mid	-0.15	0.225	17.54	18.30	1.191	0.268	/
	Level5&6		Left Edge	10	20175	1732.5	1	Mid	-0.03	0.048	17.57	18.30	1.183	0.057	/
	Level5&6			10	20050	1720	50	Mid	0.16	0.050	17.54	18.30	1.191	0.060	/
	Level5&6		Right Edge	10	20175	1732.5	1	Mid	0.05	0.025	17.57	18.30	1.183	0.030	/
	Level5&6			10	20050	1720	50	Mid	0.09	0.024	17.54	18.30	1.191	0.029	/
	Level5&6		Bottom Edge	10	20175	1732.5	1	Mid	0.19	0.338	17.57	18.30	1.183	0.400	/
	Level5&6			10	20050	1720	50	Mid	-0.01	0.338	17.54	18.30	1.191	0.403	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
Specific															
ANT1	Level4	QPSK	Top Edge	0	20050	1720	1	Mid	-0.02	0.922	19.29	19.80	1.125	1.037	/
	Level4			0	20050	1720	50	High	0.02	0.874	19.41	19.80	1.094	0.956	/
ANT0	Level4	QPSK	Bottom Edge	0	20050	1720	1	Mid	-0.02	1.480	19.75	20.30	1.135	**1.680**	26#
	Level4			0	20050	1720	50	High	-0.01	1.350	19.71	20.30	1.146	1.546	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.8LTE Band 5 (10MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
ANT1	Level1	QPSK	Left Cheek	0	20450	829	1	Mid	0.11	0.692	22.16	23.30	1.300	0.900	/
	Level1			0	20525	836.5	25	Low	-0.19	0.665	22.12	22.30	1.042	0.693	/
	Level1		Left Tilt	0	20450	829	1	Mid	0.08	0.600	22.16	23.30	1.300	0.780	/
	Level1			0	20525	836.5	25	Low	-0.13	0.577	22.12	22.30	1.042	0.601	/
	Level1		Right Cheek	0	20450	829	1	Mid	-0.03	0.857	22.16	23.30	1.300	1.114	/
	Level1			0	20525	836.5	1	High	-0.02	0.812	22.09	23.30	1.321	1.073	/
	Level1			0	20600	844	1	Mid	-0.04	0.779	22.08	23.30	1.324	1.032	/
	Level1			0	20525	836.5	25	Low	-0.04	0.823	22.12	22.30	1.042	0.858	/
	Level1			0	20450	829	25	Low	-0.02	0.880	22.11	22.30	1.045	0.919	/
	Level1			0	20600	844	25	Low	-0.01	0.812	22.09	22.30	1.050	0.852	/
	Level1			0	20525	836.5	50	Low	-0.02	0.885	22.16	23.30	1.300	**1.151**	27#
	Level1		Right Tilt	0	20450	829	1	Mid	-0.07	0.756	22.16	23.30	1.300	0.983	/
	Level1			0	20525	836.5	1	High	0.10	0.741	22.09	23.30	1.321	0.979	/
	Level1			0	20600	844	1	Mid	0.09	0.733	22.08	23.30	1.324	0.971	/
	Level1			0	20525	836.5	25	Low	-0.15	0.719	22.12	22.30	1.042	0.749	/
	Level1			0	20450	829	25	Low	-0.15	0.721	22.11	22.30	1.045	0.753	/
	Level1			0	20600	844	25	Low	0.00	0.715	22.09	22.30	1.050	0.750	/
	Level1			0	20525	836.5	50	Low	-0.18	0.705	22.16	23.30	1.300	0.917	/
ANT1	Level2&3	QPSK	Left Cheek	0	20450	829	1	Mid	-0.01	0.438	19.97	21.30	1.358	0.595	/
	Level2&3			0	20525	836.5	25	Low	-0.11	0.431	19.98	21.30	1.355	0.584	/
	Level2&3		Left Tilt	0	20450	829	1	Mid	0.01	0.379	19.97	21.30	1.358	0.515	/
	Level2&3			0	20525	836.5	25	Low	0.16	0.355	19.98	21.30	1.355	0.481	/
	Level2&3		Right Cheek	0	20450	829	1	Mid	0.03	0.581	19.97	21.30	1.358	0.789	/
	Level2&3			0	20525	836.5	25	Low	0.13	0.560	19.98	21.30	1.355	0.759	/
	Level2&3		Right Tilt	0	20450	829	1	Mid	0.05	0.478	19.97	21.30	1.358	0.649	/
	Level2&3			0	20525	836.5	25	Low	-0.02	0.447	19.98	21.30	1.355	0.606	/
ANT0	Level1&2&3	QPSK	Left Cheek	0	20600	844	1	Mid	-0.16	0.178	23.13	24.30	1.309	0.233	/
	Level1&2&3			0	20525	836.5	25	Low	0.07	0.130	22.14	23.30	1.306	0.170	/
	Level1&2&3		Left Tilt	0	20600	844	1	Mid	0.13	0.096	23.13	24.30	1.309	0.126	/
	Level1&2&3			0	20525	836.5	25	Low	-0.12	0.065	22.14	23.30	1.306	0.085	/
	Level1&2&3		Right Cheek	0	20600	844	1	Mid	0.15	0.126	23.13	24.30	1.309	0.165	/
	Level1&2&3			0	20525	836.5	25	Low	0.08	0.108	22.14	23.30	1.306	0.141	/
	Level1&2&3		Right Tilt	0	20600	844	1	Mid	-0.18	0.061	23.13	24.30	1.309	0.080	/
	Level1&2&3			0	20525	836.5	25	Low	-0.12	0.052	22.14	23.30	1.306	0.068	/
Body-worn Accessory															
ANT1	Level4	QPSK	Front Side	15	20600	844	1	Mid	-0.14	0.091	23.13	24.30	1.309	0.119	/
	Level4			15	20525	836.5	25	Low	-0.01	0.103	22.14	23.30	1.306	0.135	/
	Level4		Back Side	15	20600	844	1	Mid	-0.12	0.128	23.13	24.30	1.309	**0.168**	28#
	Level4			15	20525	836.5	25	Low	0.02	0.115	22.14	23.30	1.306	0.150	/

ANT0	Level4	QPSK	Front Side	15	20600	844	1	Mid	0.09	0.121	23.13	24.30	1.309	0.158	/
	Level4			15	20525	836.5	25	Low	0.12	0.103	22.14	23.30	1.306	0.135	/
	Level4		Back Side	15	20600	844	1	Mid	-0.13	0.119	23.13	24.30	1.309	0.156	/
	Level4			15	20525	836.5	25	Low	0.11	0.103	22.14	23.30	1.306	0.135	/
Hotspot															
ANT1	Level5&6	QPSK	Front Side	10	20600	844	1	Mid	-0.14	0.211	23.13	24.30	1.309	0.276	/
	Level5&6			10	20525	836.5	25	Low	-0.12	0.171	22.14	23.30	1.306	0.223	/
	Level5&6		Back Side	10	20600	844	1	Mid	0.00	0.248	23.13	24.30	1.309	**0.325**	29#
	Level5&6			10	20525	836.5	25	Low	0.03	0.216	22.14	23.30	1.306	0.282	/
	Level5&6		Right Edge	10	20600	844	1	Mid	-0.13	0.126	23.13	24.30	1.309	0.165	/
	Level5&6			10	20525	836.5	25	Low	-0.17	0.101	22.14	23.30	1.306	0.132	/
	Level5&6		Top Edge	10	20600	844	1	Mid	0.01	0.149	23.13	24.30	1.309	0.195	/
	Level5&6			10	20525	836.5	25	Low	0.14	0.118	22.14	23.30	1.306	0.154	/
ANT0	Level5&6	QPSK	Front Side	10	20600	844	1	Mid	0.07	0.131	23.13	24.30	1.309	0.172	/
	Level5&6			10	20525	836.5	25	Low	-0.08	0.110	22.14	23.30	1.306	0.144	/
	Level5&6		Back Side	10	20600	844	1	Mid	-0.08	0.182	23.13	24.30	1.309	0.238	/
	Level5&6			10	20525	836.5	25	Low	0.13	0.165	22.14	23.30	1.306	0.216	/
	Level5&6		Left Edge	10	20600	844	1	Mid	0.18	0.097	23.13	24.30	1.309	0.127	/
	Level5&6			10	20525	836.5	25	Low	-0.10	0.087	22.14	23.30	1.306	0.114	/
	Level5&6		Right Edge	10	20600	844	1	Mid	-0.02	0.153	23.13	24.30	1.309	0.200	/
	Level5&6			10	20525	836.5	25	Low	0.18	0.135	22.14	23.30	1.306	0.176	/
	Level5&6		Bottom Edge	10	20600	844	1	Mid	0.03	0.153	23.13	24.30	1.309	0.200	/
	Level5&6			10	20525	836.5	25	Low	0.09	0.137	22.14	23.30	1.306	0.179	/

Note: Refer to ANNEX C for the detailed test data for each test configuration.

10.9LTE Band 7 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
ANT1	Level1	QPSK	Left Cheek	0	21100	2535	1	Mid	-0.19	0.210	17.17	18.00	1.211	0.254	/
	Level1			0	21350	2560	50	Low	-0.12	0.206	17.17	18.00	1.211	0.249	/
	Level1		Left Tilt	0	21100	2535	1	Mid	0.08	0.271	17.17	18.00	1.211	0.328	/
	Level1			0	21350	2560	50	Low	0.18	0.258	17.17	18.00	1.211	0.312	/
	Level1		Right Cheek	0	21100	2535	1	Mid	0.04	0.575	17.17	18.00	1.211	0.696	/
	Level1			0	21350	2560	50	Low	0.11	0.572	17.17	18.00	1.211	0.692	/
	Level1		Right Tilt	0	21100	2535	1	Mid	0.15	0.659	17.17	18.00	1.211	**0.798**	30#
	Level1			0	21350	2560	50	Low	0.18	0.616	17.17	18.00	1.211	0.746	/
ANT1	Level2&3	QPSK	Left Cheek	0	21100	2535	1	Mid	0.19	0.127	14.98	16.00	1.265	0.161	/
	Level2&3			0	21350	2560	50	Low	0.14	0.127	14.96	16.00	1.271	0.161	/
	Level2&3		Left Tilt	0	21100	2535	1	Mid	0.15	0.168	14.98	16.00	1.265	0.212	/
	Level2&3			0	21350	2560	50	Low	-0.18	0.162	14.96	16.00	1.271	0.206	/
	Level2&3		Right Cheek	0	21100	2535	1	Mid	-0.12	0.374	14.98	16.00	1.265	0.473	/
	Level2&3			0	21350	2560	50	Low	0.08	0.351	14.96	16.00	1.271	0.446	/
	Level2&3		Right Tilt	0	21100	2535	1	Mid	-0.04	0.422	14.98	16.00	1.265	0.534	/
	Level2&3			0	21350	2560	50	Low	-0.16	0.383	14.96	16.00	1.271	0.487	/
ANT0	Level1&2&3	QPSK	Left Cheek	0	21350	2560	1	Mid	0.01	0.048	22.70	23.50	1.202	0.058	/
	Level1&2&3			0	21350	2560	1	Low	-0.11	0.050	21.74	22.50	1.191	0.060	/
	Level1&2&3		Left Tilt	0	21350	2560	1	Mid	0.14	0.018	22.70	23.50	1.202	0.022	/
	Level1&2&3			0	21350	2560	1	Low	0.14	0.014	21.74	22.50	1.191	0.017	/
	Level1&2&3		Right Cheek	0	21350	2560	1	Mid	0.13	0.093	22.70	23.50	1.202	0.112	/
	Level1&2&3			0	21350	2560	1	Low	0.14	0.072	21.74	22.50	1.191	0.086	/
	Level1&2&3		Right Tilt	0	21350	2560	1	Mid	0.18	0.049	22.70	23.50	1.202	0.059	/
	Level1&2&3			0	21350	2560	1	Low	0.08	0.051	21.74	22.50	1.191	0.061	/
Body-worn Accessory															
ANT1	Level4	QPSK	Front Side	15	20850	2510	1	Low	-0.08	0.082	19.58	20.50	1.236	0.101	/
	Level4			15	20850	2510	50	Mid	-0.18	0.080	19.71	20.50	1.199	0.096	/
	Level4		Back Side	15	20850	2510	1	Low	-0.03	0.148	19.58	20.50	1.236	**0.183**	31#
	Level4			15	20850	2510	50	Mid	-0.14	0.150	19.71	20.50	1.199	0.180	/
ANT0	Level4	QPSK	Front Side	15	20850	2510	1	Low	0.13	0.091	21.56	22.50	1.242	0.113	/
	Level4			15	21350	2560	50	Low	0.07	0.089	21.60	22.50	1.230	0.109	/
	Level4		Back Side	15	20850	2510	1	Low	-0.01	0.116	21.56	22.50	1.242	0.144	/
	Level4			15	21350	2560	50	Low	0.00	0.116	21.60	22.50	1.230	0.143	/
Hotspot															
ANT1	Level5&6	QPSK	Front Side	10	21350	2560	1	Mid	0.17	0.105	17.68	18.50	1.208	0.127	/
	Level5&6			10	21350	2560	50	Mid	0.07	0.101	17.68	18.50	1.208	0.122	/
	Level5&6		Back Side	10	21350	2560	1	Mid	-0.13	0.235	17.68	18.50	1.208	0.284	/
	Level5&6			10	21350	2560	50	Mid	-0.02	0.200	17.68	18.50	1.208	0.242	/
	Level5&6		Right Edge	10	21350	2560	1	Mid	-0.10	0.079	17.68	18.50	1.208	0.095	/

	Level5&6			10	21350	2560	50	Mid	-0.15	0.078	17.68	18.50	1.208	0.094	/
	Level5&6		Top Edge	10	21350	2560	1	Mid	-0.13	0.274	17.68	18.50	1.208	**0.331**	32#
	Level5&6			10	21350	2560	50	Mid	0.08	0.263	17.68	18.50	1.208	0.318	/
ANT0	Level5&6	QPSK	Front Side	10	21350	2560	1	Mid	0.11	0.095	19.36	20.50	1.300	0.124	/
	Level5&6			10	21350	2560	50	Low	0.01	0.095	19.37	20.50	1.297	0.123	/
	Level5&6		Back Side	10	21350	2560	1	Mid	0.00	0.121	19.36	20.50	1.300	0.157	/
	Level5&6			10	21350	2560	50	Low	0.12	0.120	19.37	20.50	1.297	0.156	/
	Level5&6		Left Edge	10	21350	2560	1	Mid	-0.01	0.048	19.36	20.50	1.300	0.062	/
	Level5&6			10	21350	2560	50	Low	-0.04	0.046	19.37	20.50	1.297	0.060	/
	Level5&6		Right Edge	10	21350	2560	1	Mid	-0.10	0.014	19.36	20.50	1.300	0.018	/
	Level5&6			10	21350	2560	50	Low	-0.08	0.011	19.37	20.50	1.297	0.014	/
	Level5&6		Bottom Edge	10	21350	2560	1	Mid	-0.08	0.076	19.36	20.50	1.300	0.099	/
	Level5&6			10	21350	2560	50	Low	0.02	0.073	19.37	20.50	1.297	0.095	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.10 LTE Band 7 (20MHz Bandwidth) Worse case for CA Test

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
ANT1	Level1	QPSK	Right Tilt	0	20850 +21048	2510 +2529.8	1+1	High +Low	-0.11	0.637	17.12	18.00	1.225	0.780	/
Body-worn Accessory															
ANT1	Level4	QPSK	Back Side	15	20850 +21048	2510 +2529.8	1+1	High +Low	0.12	0.121	19.14	20.50	1.368	0.165	/
Hotspot															
ANT1	Level5&6	QPSK	Top Edge	10	20850 +21048	2510 +2529.8	1+1	High +Low	-0.02	0.245	17.44	18.50	1.276	0.313	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.11 LTE Band 12 (10MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
ANT1	Level1	QPSK	Left Cheek	0	23130	711	1	Mid	0.03	0.416	22.16	23.30	1.300	0.541	/
	Level1			0	23095	707.5	25	High	-0.05	0.425	22.16	23.30	1.300	0.553	/
	Level1		Left Tilt	0	23130	711	1	Mid	-0.10	0.382	22.16	23.30	1.300	0.497	/
	Level1			0	23095	707.5	25	High	0.07	0.392	22.16	23.30	1.300	0.510	/
	Level1		Right Cheek	0	23130	711	1	Mid	-0.03	0.561	22.16	23.30	1.300	**0.729**	33#
	Level1			0	23095	707.5	25	High	-0.10	0.554	22.16	23.30	1.300	0.720	/
	Level1		Right Tilt	0	23130	711	1	Mid	0.10	0.538	22.16	23.30	1.300	0.699	/
	Level1			0	23095	707.5	25	High	-0.16	0.544	22.16	23.30	1.300	0.707	/
ANT1	Level2&3	QPSK	Left Cheek	0	23130	711	1	Mid	-0.01	0.246	20.09	21.30	1.321	0.325	/
	Level2&3			0	23095	707.5	25	Mid	0.17	0.238	20.05	21.30	1.334	0.317	/
	Level2&3		Left Tilt	0	23130	711	1	Mid	0.06	0.240	20.09	21.30	1.321	0.317	/
	Level2&3			0	23095	707.5	25	Mid	0.00	0.233	20.05	21.30	1.334	0.311	/
	Level2&3		Right Cheek	0	23130	711	1	Mid	-0.13	0.407	20.09	21.30	1.321	0.538	/
	Level2&3			0	23095	707.5	25	Mid	0.09	0.405	20.05	21.30	1.334	0.540	/
	Level2&3		Right Tilt	0	23130	711	1	Mid	-0.07	0.378	20.09	21.30	1.321	0.499	/
	Level2&3			0	23095	707.5	25	Mid	0.07	0.368	20.05	21.30	1.334	0.491	/
ANT0	Level1&2&3	QPSK	Left Cheek	0	23130	711	1	Mid	0.18	0.103	23.18	24.30	1.294	0.133	/
	Level1&2&3			0	23095	707.5	25	High	-0.14	0.070	22.12	23.30	1.312	0.092	/
	Level1&2&3		Left Tilt	0	23130	711	1	Mid	0.17	0.058	23.18	24.30	1.294	0.075	/
	Level1&2&3			0	23095	707.5	25	High	-0.19	0.047	22.12	23.30	1.312	0.062	/
	Level1&2&3		Right Cheek	0	23130	711	1	Mid	-0.11	0.068	23.18	24.30	1.294	0.088	/
	Level1&2&3			0	23095	707.5	25	High	0.11	0.058	22.12	23.30	1.312	0.076	/
	Level1&2&3		Right Tilt	0	23130	711	1	Mid	-0.14	0.036	23.18	24.30	1.294	0.047	/
	Level1&2&3			0	23095	707.5	25	High	0.09	0.025	22.12	23.30	1.312	0.033	/
Body-worn Accessory															
ANT1	Level4	QPSK	Front Side	15	23130	711	1	Mid	-0.05	0.151	23.18	24.30	1.294	0.195	/
	Level4			15	23095	707.5	25	High	-0.18	0.119	22.12	23.30	1.312	0.156	/
	Level4		Back Side	15	23130	711	1	Mid	-0.09	0.171	23.18	24.30	1.294	**0.221**	34#
	Level4			15	23095	707.5	25	High	0.01	0.130	22.12	23.30	1.312	0.171	/
ANT0	Level4	QPSK	Front Side	15	23130	711	1	Mid	0.09	0.128	23.18	24.30	1.294	0.166	/
	Level4			15	23095	707.5	25	High	-0.12	0.094	22.12	23.30	1.312	0.123	/
	Level4		Back Side	15	23130	711	1	Mid	0.17	0.147	23.18	24.30	1.294	0.190	/
	Level4			15	23095	707.5	25	High	-0.19	0.129	22.12	23.30	1.312	0.169	/
Hotspot															
ANT1	Level5&6	QPSK	Front Side	10	23130	711	1	Mid	0.09	0.139	23.18	24.30	1.294	0.180	/
	Level5&6			10	23095	707.5	25	High	0.11	0.110	22.12	23.30	1.312	0.144	/
	Level5&6		Back Side	10	23130	711	1	Mid	-0.03	0.168	23.18	24.30	1.294	**0.217**	35#
	Level5&6			10	23095	707.5	25	High	0.08	0.126	22.12	23.30	1.312	0.165	/
	Level5&6		Right Edge	10	23130	711	1	Mid	-0.02	0.161	23.18	24.30	1.294	0.208	/

	Level5&6			10	23095	707.5	25	High	-0.10	0.137	22.12	23.30	1.312	0.180	/
	Level5&6		Top Edge	10	23130	711	1	Mid	0.06	0.065	23.18	24.30	1.294	0.085	/
	Level5&6			10	23095	707.5	25	High	0.04	0.052	22.12	23.30	1.312	0.068	/
ANT0	Level5&6	QPSK	Front Side	10	23130	711	1	Mid	-0.16	0.121	23.18	24.30	1.294	0.157	/
	Level5&6			10	23095	707.5	25	High	0.09	0.092	22.12	23.30	1.312	0.121	/
	Level5&6		Back Side	10	23130	711	1	Mid	0.01	0.144	23.18	24.30	1.294	0.186	/
	Level5&6			10	23095	707.5	25	High	-0.07	0.132	22.12	23.30	1.312	0.173	/
	Level5&6		Left Edge	10	23130	711	1	Mid	-0.04	0.117	23.18	24.30	1.294	0.151	/
	Level5&6			10	23095	707.5	25	High	0.14	0.086	22.12	23.30	1.312	0.113	/
	Level5&6		Right Edge	10	23130	711	1	Mid	0.15	0.142	23.18	24.30	1.294	0.184	/
	Level5&6			10	23095	707.5	25	High	0.14	0.130	22.12	23.30	1.312	0.171	/
	Level5&6		Bottom Edge	10	23130	711	1	Mid	0.02	0.057	23.18	24.30	1.294	0.074	/
	Level5&6			10	23095	707.5	25	High	-0.18	0.045	22.12	23.30	1.312	0.059	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.12 LTE Band 26 (15MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
ANT1	Level1	QPSK	Left Cheek	0	26765	821.5	1	Low	-0.03	0.594	22.08	23.30	1.324	0.787	/
	Level1			0	26965	841.5	36	Mid	-0.06	0.577	22.12	23.30	1.312	0.757	/
	Level1		Left Tilt	0	26765	821.5	1	Low	-0.06	0.504	22.08	23.30	1.324	0.668	/
	Level1			0	26965	841.5	36	Mid	0.14	0.485	22.12	23.30	1.312	0.636	/
	Level1		Right Cheek	0	26765	821.5	1	Low	-0.03	0.846	22.08	23.30	1.324	**1.120**	36#
	Level1			0	26865	831.5	1	High	0.19	0.832	22.04	23.30	1.337	1.112	/
	Level1			0	26965	841.5	1	Mid	-0.11	0.818	22.04	23.30	1.337	1.093	/
	Level1			0	26965	841.5	36	Mid	-0.06	0.853	22.12	23.30	1.312	1.119	/
	Level1			0	26765	821.5	36	High	0.17	0.840	22.10	23.30	1.318	1.107	/
	Level1			0	26865	831.5	36	Low	0.07	0.825	22.07	23.30	1.327	1.095	/
	Level1			0	26765	821.5	75	Low	-0.18	0.834	22.13	23.30	1.309	1.092	/
	Level1		Right Tilt	0	26765	821.5	1	Low	0.12	0.772	22.08	23.30	1.324	1.022	/
	Level1			0	26865	831.5	1	High	-0.19	0.758	22.04	23.30	1.337	1.013	/
	Level1			0	26965	841.5	1	Mid	-0.02	0.742	22.04	23.30	1.337	0.992	/
	Level1			0	26965	841.5	36	Mid	0.05	0.757	22.12	23.30	1.312	0.993	/
	Level1			0	26765	821.5	36	High	-0.05	0.736	22.10	23.30	1.318	0.970	/
	Level1			0	26865	831.5	36	Low	0.05	0.741	22.07	23.30	1.327	0.984	/
	Level1			0	26765	821.5	75	Low	0.19	0.733	22.13	23.30	1.309	0.960	/
ANT1	Level2&3	QPSK	Left Cheek	0	26865	831.5	1	Mid	0.00	0.417	19.94	21.30	1.368	0.570	/
	Level2&3			0	26765	821.5	36	Low	0.14	0.407	19.95	21.30	1.365	0.555	/
	Level2&3		Left Tilt	0	26865	831.5	1	Mid	0.03	0.395	19.94	21.30	1.368	0.540	/
	Level2&3			0	26765	821.5	36	Low	-0.14	0.384	19.95	21.30	1.365	0.524	/
	Level2&3		Right Cheek	0	26865	831.5	1	Mid	0.17	0.628	19.94	21.30	1.368	0.859	/
	Level2&3			0	26765	821.5	1	Low	-0.15	0.632	19.83	21.30	1.403	0.887	/
	Level2&3			0	26965	841.5	1	Mid	0.09	0.611	19.90	21.30	1.380	0.843	/
	Level2&3			0	26765	821.5	36	Low	0.06	0.657	19.95	21.30	1.365	0.897	/
	Level2&3			0	26865	831.5	36	Low	-0.10	0.642	19.88	21.30	1.387	0.890	/
	Level2&3			0	26965	841.5	36	Mid	0.14	0.628	19.92	21.30	1.374	0.863	/
	Level2&3			0	26765	821.5	75	Low	-0.01	0.636	19.99	21.30	1.352	0.860	/
	Level2&3		Right Tilt	0	26865	831.5	1	Mid	-0.17	0.518	19.94	21.30	1.368	0.708	/
	Level2&3			0	26765	821.5	36	Low	-0.07	0.507	19.95	21.30	1.365	0.692	/
ANT0	Level1&2&3	QPSK	Left Cheek	0	26865	831.5	1	High	0.02	0.162	23.08	24.30	1.324	0.215	/
	Level1&2&3			0	26965	841.5	36	Mid	-0.08	0.143	22.13	23.30	1.309	0.187	/
	Level1&2&3		Left Tilt	0	26865	831.5	1	High	0.10	0.088	23.08	24.30	1.324	0.117	/
	Level1&2&3			0	26965	841.5	36	Mid	-0.07	0.074	22.13	23.30	1.309	0.097	/
	Level1&2&3		Right Cheek	0	26865	831.5	1	High	-0.17	0.093	23.08	24.30	1.324	0.123	/
	Level1&2&3			0	26965	841.5	36	Mid	-0.01	0.078	22.13	23.30	1.309	0.102	/
	Level1&2&3		Right Tilt	0	26865	831.5	1	High	0.07	0.064	23.08	24.30	1.324	0.085	/
	Level1&2&3			0	26965	841.5	36	Mid	0.16	0.056	22.13	23.30	1.309	0.073	/

Body-worn Accessory															
ANT1	Level4	QPSK	Front Side	15	26865	831.5	1	High	0.10	0.144	23.08	24.30	1.324	0.191	/
	Level4			15	26965	841.5	36	Mid	-0.07	0.105	22.13	23.30	1.309	0.137	/
	Level4		Back Side	15	26865	831.5	1	High	-0.04	0.155	23.08	24.30	1.324	**0.205**	37#
	Level4			15	26965	841.5	36	Mid	0.14	0.116	22.13	23.30	1.309	0.152	/
ANT0	Level4	QPSK	Front Side	15	26865	831.5	1	High	-0.19	0.131	23.08	24.30	1.324	0.173	/
	Level4			15	26965	841.5	36	Mid	-0.02	0.088	22.13	23.30	1.309	0.115	/
	Level4		Back Side	15	26865	831.5	1	High	-0.05	0.142	23.08	24.30	1.324	0.188	/
	Level4			15	26965	841.5	36	Mid	0.08	0.117	22.13	23.30	1.309	0.153	/
Hotspot															
ANT1	Level5&6	QPSK	Front Side	10	26865	831.5	1	High	-0.17	0.211	23.08	24.30	1.324	0.279	/
	Level5&6			10	26965	841.5	36	Mid	-0.10	0.160	22.13	23.30	1.309	0.209	/
	Level5&6		Back Side	10	26865	831.5	1	High	-0.05	0.234	23.08	24.30	1.324	**0.310**	38#
	Level5&6			10	26965	841.5	36	Mid	-0.12	0.204	22.13	23.30	1.309	0.267	/
	Level5&6		Right Edge	10	26865	831.5	1	High	0.16	0.129	23.08	24.30	1.324	0.171	/
	Level5&6			10	26965	841.5	36	Mid	0.03	0.095	22.13	23.30	1.309	0.124	/
	Level5&6		Top Edge	10	26865	831.5	1	High	0.08	0.154	23.08	24.30	1.324	0.204	/
	Level5&6			10	26965	841.5	36	Mid	0.08	0.135	22.13	23.30	1.309	0.177	/
ANT0	Level5&6	QPSK	Front Side	10	26865	831.5	1	High	-0.04	0.145	23.08	24.30	1.324	0.192	/
	Level5&6			10	26965	841.5	36	Mid	0.12	0.094	22.13	23.30	1.309	0.123	/
	Level5&6		Back Side	10	26865	831.5	1	High	0.01	0.179	23.08	24.30	1.324	0.237	/
	Level5&6			10	26965	841.5	36	Mid	0.11	0.169	22.13	23.30	1.309	0.221	/
	Level5&6		Left Edge	10	26865	831.5	1	High	-0.05	0.112	23.08	24.30	1.324	0.148	/
	Level5&6			10	26965	841.5	36	Mid	0.14	0.070	22.13	23.30	1.309	0.092	/
	Level5&6		Right Edge	10	26865	831.5	1	High	-0.12	0.180	23.08	24.30	1.324	0.238	/
	Level5&6			10	26965	841.5	36	Mid	0.04	0.113	22.13	23.30	1.309	0.148	/
	Level5&6		Bottom Edge	10	26865	831.5	1	High	-0.16	0.191	23.08	24.30	1.324	0.253	/
	Level5&6			10	26965	841.5	36	Mid	-0.19	0.109	22.13	23.30	1.309	0.143	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.13 LTE Band 66 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
ANT1	Level1	QPSK	Left Cheek	0	132072	1720	1	Mid	-0.03	0.271	13.76	14.30	1.132	0.307	/
	Level1			0	132072	1720	50	High	0.18	0.267	13.87	14.30	1.104	0.295	/
	Level1		Left Tilt	0	132072	1720	1	Mid	-0.18	0.314	13.76	14.30	1.132	0.356	/
	Level1			0	132072	1720	50	High	-0.04	0.316	13.87	14.30	1.104	0.349	/
	Level1		Right Cheek	0	132072	1720	1	Mid	0.02	0.422	13.76	14.30	1.132	0.478	/
	Level1			0	132072	1720	50	High	0.13	0.426	13.87	14.30	1.104	0.470	/
	Level1		Right Tilt	0	132072	1720	1	Mid	-0.05	0.585	13.76	14.30	1.132	**0.662**	39#
	Level1			0	132072	1720	50	High	0.08	0.592	13.87	14.30	1.104	0.654	/
ANT1	Level2&3	QPSK	Left Cheek	0	132072	1720	1	Mid	0.01	0.177	11.67	12.30	1.156	0.205	/
	Level2&3			0	132072	1720	50	High	0.09	0.178	11.85	12.30	1.109	0.197	/
	Level2&3		Left Tilt	0	132072	1720	1	Mid	0.17	0.193	11.67	12.30	1.156	0.223	/
	Level2&3			0	132072	1720	50	High	-0.02	0.195	11.85	12.30	1.109	0.216	/
	Level2&3		Right Cheek	0	132072	1720	1	Mid	-0.19	0.262	11.67	12.30	1.156	0.303	/
	Level2&3			0	132072	1720	50	High	0.09	0.263	11.85	12.30	1.109	0.292	/
	Level2&3		Right Tilt	0	132072	1720	1	Mid	-0.18	0.313	11.67	12.30	1.156	0.362	/
	Level2&3			0	132072	1720	50	High	-0.11	0.314	11.85	12.30	1.109	0.348	/
ANT0	Level1&2&3	QPSK	Left Cheek	0	132072	1720	1	Mid	-0.09	0.109	23.29	23.80	1.125	0.123	/
	Level1&2&3			0	132072	1720	50	Mid	0.14	0.084	22.33	22.80	1.114	0.094	/
	Level1&2&3		Left Tilt	0	132072	1720	1	Mid	0.11	0.046	23.29	23.80	1.125	0.052	/
	Level1&2&3			0	132072	1720	50	Mid	-0.19	0.033	22.33	22.80	1.114	0.037	/
	Level1&2&3		Right Cheek	0	132072	1720	1	Mid	0.07	0.067	23.29	23.80	1.125	0.075	/
	Level1&2&3			0	132072	1720	50	Mid	0.14	0.051	22.33	22.80	1.114	0.057	/
	Level1&2&3		Right Tilt	0	132072	1720	1	Mid	-0.06	0.064	23.29	23.80	1.125	0.072	/
	Level1&2&3			0	132072	1720	50	Mid	-0.08	0.048	22.33	22.80	1.114	0.053	/
Body-worn Accessory															
ANT1	Level4	QPSK	Front Side	15	132072	1720	1	Mid	0.11	0.190	19.39	19.80	1.099	0.209	/
	Level4			15	132072	1720	50	High	-0.01	0.195	19.46	19.80	1.081	0.211	/
	Level4		Back Side	15	132072	1720	1	Mid	0.13	0.192	19.39	19.80	1.099	0.211	/
	Level4			15	132072	1720	50	High	-0.05	0.185	19.46	19.80	1.081	0.200	/
ANT0	Level4	QPSK	Front Side	15	132072	1720	1	Mid	-0.16	0.102	19.74	20.30	1.138	0.116	/
	Level4			15	132072	1720	50	Mid	0.09	0.103	19.79	20.30	1.125	0.116	/
	Level4		Back Side	15	132072	1720	1	Mid	-0.02	0.194	19.74	20.30	1.138	**0.221**	40#
	Level4			15	132072	1720	50	Mid	-0.08	0.191	19.79	20.30	1.125	0.215	/
Hotspot															
ANT1	Level5&6	QPSK	Front Side	10	132072	1720	1	Mid	-0.06	0.236	17.30	17.80	1.122	0.265	/
	Level5&6			10	132072	1720	50	High	0.13	0.224	17.35	17.80	1.109	0.248	/
	Level5&6		Back Side	10	132072	1720	1	Mid	0.00	0.236	17.30	17.80	1.122	0.265	/
	Level5&6			10	132072	1720	50	High	0.15	0.237	17.35	17.80	1.109	0.263	/
	Level5&6		Right Edge	10	132072	1720	1	Mid	-0.13	0.052	17.30	17.80	1.122	0.058	/

	Level5&6			10	132072	1720	50	High	-0.19	0.048	17.35	17.80	1.109	0.053	/
	Level5&6		Top Edge	10	132072	1720	1	Mid	0.05	0.384	17.30	17.80	1.122	**0.431**	41#
	Level5&6			10	132072	1720	50	High	0.02	0.375	17.35	17.80	1.109	0.416	/
ANT0	Level5&6	QPSK	Front Side	10	132072	1720	1	Mid	0.16	0.115	17.57	18.30	1.183	0.136	/
	Level5&6			10	132322	1747.5	50	Mid	-0.10	0.118	17.57	18.30	1.183	0.140	/
	Level5&6		Back Side	10	132072	1720	1	Mid	-0.14	0.222	17.57	18.30	1.183	0.263	/
	Level5&6			10	132322	1747.5	50	Mid	0.12	0.216	17.57	18.30	1.183	0.256	/
	Level5&6		Left Edge	10	132072	1720	1	Mid	0.13	0.042	17.57	18.30	1.183	0.050	/
	Level5&6			10	132322	1747.5	50	Mid	0.18	0.038	17.57	18.30	1.183	0.045	/
	Level5&6		Right Edge	10	132072	1720	1	Mid	0.09	0.025	17.57	18.30	1.183	0.030	/
	Level5&6			10	132322	1747.5	50	Mid	0.18	0.024	17.57	18.30	1.183	0.028	/
	Level5&6		Bottom Edge	10	132072	1720	1	Mid	0.07	0.335	17.57	18.30	1.183	0.396	/
	Level5&6			10	132322	1747.5	50	Mid	0.16	0.325	17.57	18.30	1.183	0.384	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
Specific															
ANT1	Level4	QPSK	Top Edge	0	132072	1720	1	Mid	-0.09	0.890	19.39	19.80	1.099	0.978	/
	Level4			0	132072	1720	50	High	0.14	0.881	19.46	19.80	1.081	0.953	/
ANT0	Level4	QPSK	Bottom Edge	0	132072	1720	1	Mid	0.07	1.440	19.74	20.30	1.138	**1.638**	42#
	Level4			0	132072	1720	50	Mid	0.04	1.350	19.79	20.30	1.125	1.518	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.14 LTE Band 38 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
ANT1	Level1	QPSK	Left Cheek	0	38150	2610	1	Mid	0.03	0.077	14.62	15.30	1.169	0.090	/
	Level1			0	38000	2595	50	Low	0.10	0.071	14.74	15.30	1.138	0.081	/
	Level1		Left Tilt	0	38150	2610	1	Mid	0.02	0.099	14.62	15.30	1.169	0.116	/
	Level1			0	38000	2595	50	Low	0.18	0.095	14.74	15.30	1.138	0.108	/
	Level1		Right Cheek	0	38150	2610	1	Mid	0.04	0.200	14.62	15.30	1.169	0.234	/
	Level1			0	38000	2595	50	Low	0.00	0.198	14.74	15.30	1.138	0.225	/
	Level1		Right Tilt	0	38150	2610	1	Mid	0.12	0.241	14.62	15.30	1.169	0.282	/
	Level1			0	38000	2595	50	Low	0.07	0.251	14.74	15.30	1.138	**0.286**	43#
ANT1	Level2&3	QPSK	Left Cheek	0	37850	2580	1	Mid	-0.09	0.052	12.31	13.30	1.256	0.065	/
	Level2&3			0	38000	2595	50	Low	-0.05	0.049	12.38	13.30	1.236	0.061	/
	Level2&3		Left Tilt	0	37850	2580	1	Mid	-0.05	0.068	12.31	13.30	1.256	0.085	/
	Level2&3			0	38000	2595	50	Low	0.05	0.063	12.38	13.30	1.236	0.078	/
	Level2&3		Right Cheek	0	37850	2580	1	Mid	0.17	0.132	12.31	13.30	1.256	0.166	/
	Level2&3			0	38000	2595	50	Low	0.05	0.125	12.38	13.30	1.236	0.154	/
	Level2&3		Right Tilt	0	37850	2580	1	Mid	-0.17	0.163	12.31	13.30	1.256	0.205	/
	Level2&3			0	38000	2595	50	Low	-0.12	0.166	12.38	13.30	1.236	0.205	/
ANT0	Level1&2&3	QPSK	Left Cheek	0	38150	2610	1	Mid	0.12	0.105	23.13	23.80	1.167	0.123	/
	Level1&2&3			0	38150	2610	50	Low	-0.06	0.085	22.14	22.80	1.164	0.099	/
	Level1&2&3		Left Tilt	0	38150	2610	1	Mid	0.03	0.074	23.13	23.80	1.167	0.086	/
	Level1&2&3			0	38150	2610	50	Low	-0.06	0.060	22.14	22.80	1.164	0.070	/
	Level1&2&3		Right Cheek	0	38150	2610	1	Mid	0.02	0.193	23.13	23.80	1.167	0.225	/
	Level1&2&3			0	38150	2610	50	Low	0.19	0.157	22.14	22.80	1.164	0.183	/
	Level1&2&3		Right Tilt	0	38150	2610	1	Mid	0.00	0.066	23.13	23.80	1.167	0.077	/
	Level1&2&3			0	38150	2610	50	Low	-0.03	0.067	22.14	22.80	1.164	0.078	/
Body-worn Accessory															
ANT1	Level4	QPSK	Front Side	15	37850	2580	1	Mid	-0.14	0.032	16.68	17.80	1.294	0.041	/
	Level4			15	38000	2595	50	Low	0.09	0.030	16.73	17.80	1.279	0.038	/
	Level4		Back Side	15	37850	2580	1	Mid	-0.12	0.054	16.68	17.80	1.294	0.070	/
	Level4			15	38000	2595	50	Low	0.15	0.057	16.73	17.80	1.279	0.073	/
ANT0	Level4	QPSK	Front Side	15	37850	2580	1	Mid	0.00	0.064	19.65	20.30	1.161	0.074	/
	Level4			15	38000	2595	50	Low	-0.09	0.066	19.69	20.30	1.151	0.076	/
	Level4		Back Side	15	37850	2580	1	Mid	-0.16	0.082	19.65	20.30	1.161	**0.095**	44#
	Level4			15	38000	2595	50	Low	-0.16	0.078	19.69	20.30	1.151	0.090	/
Hotspot															
ANT1	Level5&6	QPSK	Front Side	10	38150	2610	1	Mid	0.03	0.043	15.08	15.80	1.180	0.051	/
	Level5&6			10	38000	2595	50	Low	-0.14	0.043	15.16	15.80	1.159	0.050	/
	Level5&6		Back Side	10	38150	2610	1	Mid	-0.09	0.084	15.08	15.80	1.180	0.099	/
	Level5&6			10	38000	2595	50	Low	0.08	0.089	15.16	15.80	1.159	0.103	/
	Level5&6		Right Edge	10	38150	2610	1	Mid	-0.18	0.044	15.08	15.80	1.180	0.052	/

	Level5&6			10	38000	2595	50	Low	0.11	0.043	15.16	15.80	1.159	0.050	/
	Level5&6		Top Edge	10	38150	2610	1	Mid	0.16	0.095	15.08	15.80	1.180	0.112	/
	Level5&6			10	38000	2595	50	Low	0.05	0.085	15.16	15.80	1.159	0.098	/
ANT0	Level5&6	QPSK	Front Side	10	37850	2580	1	Mid	0.01	0.072	17.20	18.30	1.288	0.093	/
	Level5&6			10	38150	2610	50	Low	0.18	0.074	17.25	18.30	1.274	0.094	/
	Level5&6		Back Side	10	37850	2580	1	Mid	-0.13	0.094	17.20	18.30	1.288	**0.120**	45#
	Level5&6			10	38150	2610	50	Low	0.00	0.090	17.25	18.30	1.274	0.115	/
	Level5&6		Left Edge	10	37850	2580	1	Mid	-0.11	0.044	17.20	18.30	1.288	0.057	/
	Level5&6			10	38150	2610	50	Low	-0.11	0.046	17.25	18.30	1.274	0.059	/
	Level5&6		Right Edge	10	37850	2580	1	Mid	-0.04	0.025	17.20	18.30	1.288	0.032	/
	Level5&6			10	38150	2610	50	Low	0.00	0.024	17.25	18.30	1.274	0.031	/
	Level5&6		Bottom Edge	10	37850	2580	1	Mid	0.00	0.064	17.20	18.30	1.288	0.082	/
	Level5&6			10	38150	2610	50	Low	0.04	0.062	17.25	18.30	1.274	0.079	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.15 LTE Band 38 (20MHz Bandwidth) Worse case for CA Test

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
ANT1	Level1	QPSK	Right Tilt	0	38150 +37952	2610 +2590.2	1+1	Low +High	0.01	0.212	14.39	15.30	1.233	0.261	/
Body-worn Accessory															
ANT0	Level4	QPSK	Back Side	15	38099 +37901	2589.9 +2570.1	1+1	Low +High	0.09	0.067	19.22	20.30	1.282	0.086	/
Hotspot															
ANT0	Level5&6	QPSK	Back Side	10	38150 +37952	2610 +2590.2	1+1	Low +High	-0.01	0.081	17.11	18.30	1.315	0.107	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.16 LTE Band 41 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
ANT1	Level1	QPSK	Left Cheek	0	40620	2593	1	Mid	-0.07	0.080	14.81	15.30	1.119	0.090	/
	Level1			0	39750	2506	1	High	-0.06	0.082	14.82	15.30	1.117	0.092	/
	Level1		Left Tilt	0	40620	2593	1	Mid	-0.14	0.103	14.81	15.30	1.119	0.115	/
	Level1			0	39750	2506	1	High	-0.16	0.099	14.82	15.30	1.117	0.111	/
	Level1		Right Cheek	0	40620	2593	1	Mid	0.16	0.183	14.81	15.30	1.119	0.205	/
	Level1			0	39750	2506	1	High	0.04	0.181	14.82	15.30	1.117	0.202	/
	Level1		Right Tilt	0	40620	2593	1	Mid	0.13	0.191	14.81	15.30	1.119	**0.214**	46#
	Level1			0	39750	2506	1	High	0.18	0.170	14.82	15.30	1.117	0.190	/
ANT1	Level2&3	QPSK	Left Cheek	0	41490	2680	1	Mid	-0.13	0.052	12.55	13.30	1.189	0.062	/
	Level2&3			0	41490	2680	50	Mid	-0.15	0.055	12.59	13.30	1.178	0.065	/
	Level2&3		Left Tilt	0	41490	2680	1	Mid	0.17	0.068	12.55	13.30	1.189	0.081	/
	Level2&3			0	41490	2680	50	Mid	0.11	0.067	12.59	13.30	1.178	0.079	/
	Level2&3		Right Cheek	0	41490	2680	1	Mid	0.14	0.118	12.55	13.30	1.189	0.140	/
	Level2&3			0	41490	2680	50	Mid	-0.16	0.121	12.59	13.30	1.178	0.142	/
	Level2&3		Right Tilt	0	41490	2680	1	Mid	-0.01	0.132	12.55	13.30	1.189	0.157	/
	Level2&3			0	41490	2680	50	Mid	0.09	0.128	12.59	13.30	1.178	0.151	/
ANT0	Level1&2&3	QPSK	Left Cheek	0	40620	2593	1	Mid	0.08	0.110	23.36	23.80	1.107	0.122	/
	Level1&2&3			0	39750	2506	50	Mid	0.09	0.089	22.41	22.80	1.094	0.097	/
	Level1&2&3		Left Tilt	0	40620	2593	1	Mid	0.12	0.078	23.36	23.80	1.107	0.086	/
	Level1&2&3			0	39750	2506	50	Mid	0.11	0.071	22.41	22.80	1.094	0.078	/
	Level1&2&3		Right Cheek	0	40620	2593	1	Mid	0.18	0.189	23.36	23.80	1.107	0.209	/
	Level1&2&3			0	39750	2506	50	Mid	-0.12	0.166	22.41	22.80	1.094	0.182	/
	Level1&2&3		Right Tilt	0	40620	2593	1	Mid	0.15	0.075	23.36	23.80	1.107	0.083	/
	Level1&2&3			0	39750	2506	50	Mid	-0.04	0.066	22.41	22.80	1.094	0.072	/
Body-worn Accessory															
ANT1	Level4	QPSK	Front Side	15	41490	2680	1	Mid	-0.09	0.031	17.08	17.80	1.180	0.037	/
	Level4			15	39750	2506	50	Mid	-0.13	0.029	16.95	17.80	1.216	0.035	/
	Level4		Back Side	15	41490	2680	1	Mid	0.10	0.051	17.08	17.80	1.180	0.060	/
	Level4			15	39750	2506	50	Mid	-0.18	0.051	16.95	17.80	1.216	0.062	/
ANT0	Level4	QPSK	Front Side	15	41490	2680	1	Low	0.19	0.045	19.61	20.30	1.172	0.053	/
	Level4			15	40620	2593	50	High	-0.01	0.049	19.59	20.30	1.178	0.058	/
	Level4		Back Side	15	41490	2680	1	Low	0.09	0.055	19.61	20.30	1.172	0.064	/
	Level4			15	40620	2593	50	High	-0.06	0.059	19.59	20.30	1.178	**0.069**	47#
Hotspot															
ANT1	Level5&6	QPSK	Front Side	10	39750	2506	1	Mid	-0.09	0.025	15.32	15.80	1.117	0.028	/
	Level5&6			10	40620	2593	50	High	-0.09	0.024	15.40	15.80	1.096	0.026	/
	Level5&6		Back Side	10	39750	2506	1	Mid	-0.14	0.074	15.32	15.80	1.117	0.083	/
	Level5&6			10	40620	2593	50	High	0.03	0.074	15.40	15.80	1.096	0.081	/
	Level5&6		Right Edge	10	39750	2506	1	Mid	0.09	0.033	15.32	15.80	1.117	0.037	/

	Level5&6			10	40620	2593	50	High	-0.09	0.030	15.40	15.80	1.096	0.033	/
	Level5&6		Top Edge	10	39750	2506	1	Mid	-0.05	0.097	15.32	15.80	1.117	**0.109**	48#
	Level5&6			10	40620	2593	50	High	0.10	0.094	15.40	15.80	1.096	0.103	/
ANT0	Level5&6	QPSK	Front Side	10	39750	2506	1	Mid	0.12	0.054	17.37	18.30	1.239	0.067	/
	Level5&6			10	39750	2506	50	High	-0.07	0.053	17.39	18.30	1.233	0.065	/
	Level5&6		Back Side	10	39750	2506	1	Mid	0.01	0.080	17.37	18.30	1.239	0.099	/
	Level5&6			10	39750	2506	50	High	-0.14	0.081	17.39	18.30	1.233	0.100	/
	Level5&6		Left Edge	10	39750	2506	1	Mid	0.09	0.026	17.37	18.30	1.239	0.032	/
	Level5&6			10	39750	2506	50	High	0.15	0.025	17.39	18.30	1.233	0.031	/
	Level5&6		Right Edge	10	39750	2506	1	Mid	0.00	0.031	17.37	18.30	1.239	0.038	/
	Level5&6			10	39750	2506	50	High	0.08	0.035	17.39	18.30	1.233	0.043	/
	Level5&6		Bottom Edge	10	39750	2506	1	Mid	0.06	0.069	17.37	18.30	1.239	0.085	/
	Level5&6			10	39750	2506	50	High	0.06	0.069	17.39	18.30	1.233	0.085	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.17 LTE Band 41 (20MHz Bandwidth) Worse case for CA Test

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
ANT1	Level1	QPSK	Right Tilt	0	41490 +41292	2680 +2660.2	1+1	Low +High	0.09	0.172	14.66	15.30	1.159	0.199	/
Body-worn Accessory															
ANT0	Level4	QPSK	Back Side	15	39750 +39948	2506 +2525.8	1+1	High +Low	0.01	0.047	19.44	20.30	1.219	0.057	/
Hotspot															
ANT1	Level5&6	QPSK	Back Side	10	39750 +39948	2506 +2525.8	1+1	High +Low	-0.07	0.081	15.11	15.80	1.172	0.095	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.18 5G n5 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Information	Position	Dist. (mm)	Ch.	Freq. (MHz)	VRB Length	VRB Start	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head																
ANT0	Level1&2&3	DFT-s-OFDM BPSK	SA	Left Cheek	0	167300	836.5	1	104	0.16	0.079	23.66	24.30	1.159	0.092	/
	Level1&2&3				0	166800	834	50	0	-0.03	0.071	23.49	24.30	1.205	0.086	/
	Level1&2&3			Left Tilt	0	167300	836.5	1	104	0.08	0.060	23.66	24.30	1.159	0.070	/
	Level1&2&3				0	166800	834	50	0	-0.04	0.058	23.49	24.30	1.205	0.070	/
	Level1&2&3			Right Cheek	0	167300	836.5	1	104	-0.19	0.058	23.66	24.30	1.159	0.067	/
	Level1&2&3				0	166800	834	50	0	-0.13	0.061	23.49	24.30	1.205	0.074	/
	Level1&2&3			Right Tilt	0	167300	836.5	1	104	0.00	0.028	23.66	24.30	1.159	0.032	/
	Level1&2&3				0	166800	834	50	0	-0.07	0.027	23.49	24.30	1.205	0.033	/
ANT1	Level1	DFT-s-OFDM BPSK	SA	Left Cheek	0	167300	836.5	1	53	-0.19	0.592	21.91	22.30	1.094	0.648	/
	Level1				0	167300	836.5	50	28	-0.08	0.584	21.91	22.30	1.094	0.639	/
	Level1			Left Tilt	0	167300	836.5	1	53	-0.07	0.494	21.91	22.30	1.094	0.541	/
	Level1				0	167300	836.5	50	28	-0.19	0.489	21.91	22.30	1.094	0.535	/
	Level1			Right Cheek	0	167300	836.5	1	53	0.16	0.785	21.91	22.30	1.094	**0.859**	49#
	Level1				0	166800	834	1	104	0.00	0.748	21.75	22.30	1.135	0.849	/
	Level1				0	167800	839	1	104	-0.10	0.771	21.85	22.30	1.109	0.855	/
	Level1				0	167300	836.5	50	28	0.10	0.776	21.91	22.30	1.094	0.849	/
	Level1				0	166800	834	50	0	-0.06	0.749	21.74	22.30	1.138	0.852	/
	Level1				0	167800	839	50	56	0.00	0.758	21.89	22.30	1.099	0.833	/
	Level1				0	167300	836.5	100	0	0.06	0.723	21.87	22.30	1.104	0.798	/
	Level1			Right Tilt	0	167300	836.5	1	53	0.10	0.702	21.91	22.30	1.094	0.768	/
	Level1				0	167300	836.5	50	28	0.06	0.689	21.91	22.30	1.094	0.754	/
ANT1	Level2&3	DFT-s-OFDM BPSK	SA	Left Cheek	0	167800	839	1	53	0.05	0.407	20.09	20.30	1.050	0.427	/
	Level2&3				0	167300	836.5	50	0	-0.11	0.402	20.17	20.30	1.030	0.414	/
	Level2&3			Left Tilt	0	167800	839	1	53	-0.16	0.347	20.09	20.30	1.050	0.364	/
	Level2&3				0	167300	836.5	50	0	-0.14	0.338	20.17	20.30	1.030	0.348	/
	Level2&3			Right Cheek	0	167800	839	1	53	0.00	0.545	20.09	20.30	1.050	0.572	/
	Level2&3				0	167300	836.5	50	0	0.07	0.537	20.17	20.30	1.030	0.553	/
	Level2&3			Right Tilt	0	167800	839	1	53	0.13	0.481	20.09	20.30	1.050	0.505	/
	Level2&3				0	167300	836.5	50	0	-0.13	0.461	20.17	20.30	1.030	0.475	/
Body-worn Accessory																
ANT0	Level4	DFT-s-OFDM BPSK	SA	Front Side	15	167300	836.5	1	104	-0.15	0.069	23.66	24.30	1.159	0.080	/
	Level4				15	166800	834	50	0	0.03	0.071	23.49	24.30	1.205	0.086	/
	Level4			Back Side	15	167300	836.5	1	104	0.02	0.102	23.66	24.30	1.159	0.118	/
	Level4				15	166800	834	50	0	-0.04	0.102	23.49	24.30	1.205	0.123	/
ANT1	Level4	DFT-s-OFDM BPSK	SA	Front Side	15	167300	836.5	1	104	-0.17	0.128	23.50	24.30	1.202	0.154	/
	Level4				15	167800	839	50	28	0.15	0.123	23.38	24.30	1.236	0.152	/
	Level4			Back Side	15	167300	836.5	1	104	0.02	0.163	23.50	24.30	1.202	**0.196**	50#
	Level4				15	167800	839	50	28	0.07	0.152	23.38	24.30	1.236	0.188	/
Hotspot																

ANT0	Level5&6	DFT-s-OFDM BPSK	SA	Front Side	10	167300	836.5	1	104	-0.15	0.093	23.66	24.30	1.159	0.108	/
	Level5&6				10	166800	834	50	0	-0.15	0.089	23.49	24.30	1.205	0.107	/
	Level5&6			Back Side	10	167300	836.5	1	104	0.02	0.225	23.66	24.30	1.159	0.261	/
	Level5&6				10	166800	834	50	0	-0.01	0.218	23.49	24.30	1.205	0.263	/
	Level5&6			Left Edge	10	167300	836.5	1	104	0.16	0.041	23.66	24.30	1.159	0.048	/
	Level5&6				10	166800	834	50	0	0.00	0.038	23.49	24.30	1.205	0.046	/
	Level5&6			Right Edge	10	167300	836.5	1	104	-0.10	0.079	23.66	24.30	1.159	0.092	/
	Level5&6				10	166800	834	50	0	0.18	0.078	23.49	24.30	1.205	0.094	/
ANT1	Level5&6	DFT-s-OFDM BPSK	SA	Bottom Edge	10	167300	836.5	1	104	0.05	0.152	23.66	24.30	1.159	0.176	/
	Level5&6				10	166800	834	50	0	-0.11	0.147	23.49	24.30	1.205	0.177	/
	Level5&6			Front Side	10	167300	836.5	1	104	-0.02	0.178	23.50	24.30	1.202	0.214	/
	Level5&6				10	167800	839	50	28	-0.06	0.173	23.38	24.30	1.236	0.214	/
	Level5&6			Back Side	10	167300	836.5	1	104	0.01	0.227	23.50	24.30	1.202	**0.273**	51#
	Level5&6				10	167800	839	50	28	-0.16	0.211	23.38	24.30	1.236	0.261	/
	Level5&6			Right Edge	10	167300	836.5	1	104	-0.16	0.142	23.50	24.30	1.202	0.171	/
	Level5&6				10	167800	839	50	28	0.10	0.132	23.38	24.30	1.236	0.163	/
	Level5&6			Top Edge	10	167300	836.5	1	104	-0.18	0.175	23.50	24.30	1.202	0.210	/
	Level5&6				10	167800	839	50	28	0.06	0.171	23.38	24.30	1.236	0.211	/

Note: Refer to ANNEX C for the detailed test data for each test configuration.

10.19 5G n7 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Information	Position	Dist. (mm)	Ch.	Freq. (MHz)	VRB Length	VRB Start	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head																
ANT0	Level1&2&3	DFT-s-OFDM BPSK	SA	Left Cheek	0	512000	2560	1	104	-0.04	0.045	22.48	23.50	1.265	0.057	/
	Level1&2&3				0	512000	2560	50	56	0.00	0.042	22.43	23.50	1.279	0.054	/
	Level1&2&3			Left Tilt	0	512000	2560	1	104	0.13	0.022	22.48	23.50	1.265	0.028	/
	Level1&2&3				0	512000	2560	50	56	0.07	0.021	22.43	23.50	1.279	0.027	/
	Level1&2&3			Right Cheek	0	512000	2560	1	104	0.02	0.088	22.48	23.50	1.265	0.111	/
	Level1&2&3				0	512000	2560	50	56	0.19	0.084	22.43	23.50	1.279	0.107	/
	Level1&2&3			Right Tilt	0	512000	2560	1	104	0.03	0.051	22.48	23.50	1.265	0.065	/
	Level1&2&3				0	512000	2560	50	56	0.17	0.050	22.43	23.50	1.279	0.064	/
ANT1	Level1&2&3	DFT-s-OFDM BPSK	SA	Left Cheek	0	512000	2560	1	104	0.16	0.179	13.68	14.50	1.208	0.216	/
	Level1&2&3				0	512000	2560	50	56	-0.17	0.175	13.64	14.50	1.219	0.213	/
	Level1&2&3			Left Tilt	0	512000	2560	1	104	-0.18	0.233	13.68	14.50	1.208	0.281	/
	Level1&2&3				0	512000	2560	50	56	0.03	0.228	13.64	14.50	1.219	0.278	/
	Level1&2&3			Right Cheek	0	512000	2560	1	104	-0.15	0.494	13.68	14.50	1.208	0.597	/
	Level1&2&3				0	512000	2560	50	56	0.15	0.487	13.64	14.50	1.219	0.594	/
	Level1&2&3			Right Tilt	0	512000	2560	1	104	0.07	0.569	13.68	14.50	1.208	**0.687**	52#
	Level1&2&3				0	512000	2560	50	56	0.01	0.551	13.64	14.50	1.219	0.672	/
Body-worn Accessory																
ANT0	Level4	DFT-s-OFDM BPSK	SA	Front Side	15	512000	2560	1	104	0.05	0.045	22.48	23.50	1.265	0.057	/
	Level4				15	512000	2560	50	56	0.01	0.044	22.43	23.50	1.279	0.056	/
	Level4			Back Side	15	512000	2560	1	104	-0.13	0.071	22.48	23.50	1.265	0.090	/
	Level4				15	512000	2560	50	56	-0.15	0.076	22.43	23.50	1.279	0.098	/
ANT1	Level4	DFT-s-OFDM BPSK	SA	Front Side	15	502000	2510	1	104	0.12	0.104	18.02	18.50	1.117	0.116	/
	Level4				15	502000	2510	50	56	0.10	0.102	18.04	18.50	1.112	0.113	/
	Level4			Back Side	15	502000	2510	1	104	-0.09	0.189	18.02	18.50	1.117	0.211	/
	Level4				15	502000	2510	50	56	-0.18	0.198	18.04	18.50	1.112	**0.220**	53#
Hotspot																
ANT0	Level5&6	DFT-s-OFDM BPSK	SA	Front Side	10	512000	2560	1	104	0.18	0.041	22.48	23.50	1.265	0.052	/
	Level5&6				10	512000	2560	50	56	-0.15	0.042	22.43	23.50	1.279	0.054	/
	Level5&6			Back Side	10	512000	2560	1	104	0.01	0.087	22.48	23.50	1.265	0.110	/
	Level5&6				10	512000	2560	50	56	0.13	0.091	22.43	23.50	1.279	0.116	/
	Level5&6			Left Edge	10	512000	2560	1	104	0.12	0.030	22.48	23.50	1.265	0.038	/
	Level5&6				10	512000	2560	50	56	-0.10	0.028	22.43	23.50	1.279	0.036	/
	Level5&6			Right Edge	10	512000	2560	1	104	-0.01	0.023	22.48	23.50	1.265	0.029	/
	Level5&6				10	512000	2560	50	56	0.09	0.022	22.43	23.50	1.279	0.028	/
ANT1	Level5&6	DFT-s-OFDM BPSK	SA	Bottom Edge	10	512000	2560	1	104	-0.15	0.085	22.48	23.50	1.265	0.108	/
	Level5&6				10	512000	2560	50	56	-0.14	0.081	22.43	23.50	1.279	0.104	/
	Level5&6			Front Side	10	502000	2510	1	104	0.02	0.220	18.02	18.50	1.117	0.246	/
	Level5&6				10	502000	2510	50	56	-0.10	0.218	18.04	18.50	1.112	0.242	/
	Level5&6			Back Side	10	502000	2510	1	104	-0.18	0.436	18.02	18.50	1.117	0.487	/

	Level5&6				10	502000	2510	50	56	-0.19	0.425	18.04	18.50	1.112	0.472	/
	Level5&6			Right Edge	10	502000	2510	1	104	-0.16	0.190	18.02	18.50	1.117	0.212	/
	Level5&6				10	502000	2510	50	56	-0.14	0.187	18.04	18.50	1.112	0.208	/
	Level5&6			Top Edge	10	502000	2510	1	104	0.15	0.804	18.02	18.50	1.117	**0.898**	54#
	Level5&6				10	507000	2535	1	53	0.02	0.765	17.83	18.50	1.167	0.893	/
	Level5&6				10	512000	2560	1	1	0.00	0.742	17.81	18.50	1.172	0.870	/
	Level5&6				10	502000	2510	50	56	0.15	0.772	18.04	18.50	1.112	0.858	/
	Level5&6				10	507000	2535	50	0	-0.12	0.715	17.80	18.50	1.175	0.840	/
	Level5&6				10	512000	2560	50	0	0.09	0.732	17.88	18.50	1.153	0.844	/
	Level5&6				10	512000	2560	100	0	-0.09	0.725	17.80	18.50	1.175	0.852	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																

Antenna	Power Reduction	Mode	Information	Position	Dist. (mm)	Ch.	Freq. (MHz)	VRB Length	VRB Start	Power Drift (dB)	10g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
Specific																
ANT1	Level4	DFT-s-OFDM BPSK	SA	Back Side	0	507000	2535	1	104	0.01	0.989	18.02	18.50	1.117	**1.105**	55#
	Level4				0	507000	2535	50	56	0.06	0.932	18.04	18.50	1.112	1.036	/
	Level4			Top Edge	0	507000	2535	1	104	-0.08	0.833	18.02	18.50	1.117	0.930	/
	Level4				0	507000	2535	50	56	0.16	0.811	18.04	18.50	1.112	0.902	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																

10.20 5G n38 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Information	Position	Dist. (mm)	Ch.	Freq. (MHz)	VRB Length	VRB Start	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head																
ANT0	Level1&2&3	DFT-s-OFDM BPSK	SA	Left Cheek	0	519000	2595	1	49	0.19	0.095	22.83	23.80	1.250	0.119	/
	Level1&2&3				0	519000	2595	25	25	0.13	0.093	22.75	23.80	1.274	0.118	/
	Level1&2&3			Left Tilt	0	519000	2595	1	49	-0.16	0.070	22.83	23.80	1.250	0.088	/
	Level1&2&3				0	519000	2595	25	25	-0.01	0.074	22.75	23.80	1.274	0.094	/
	Level1&2&3			Right Cheek	0	519000	2595	1	49	-0.14	0.178	22.83	23.80	1.250	0.223	/
	Level1&2&3				0	519000	2595	25	25	0.10	0.181	22.75	23.80	1.274	0.231	/
	Level1&2&3			Right Tilt	0	519000	2595	1	49	0.06	0.071	22.83	23.80	1.250	0.089	/
	Level1&2&3				0	519000	2595	25	25	-0.04	0.069	22.75	23.80	1.274	0.088	/
ANT1	Level1&2&3	DFT-s-OFDM BPSK	SA	Left Cheek	0	522000	2610	1	25	-0.12	0.131	14.46	14.80	1.081	0.142	/
	Level1&2&3				0	516000	2580	25	25	0.04	0.126	14.40	14.80	1.096	0.138	/
	Level1&2&3			Left Tilt	0	522000	2610	1	25	-0.07	0.152	14.46	14.80	1.081	0.164	/
	Level1&2&3				0	516000	2580	25	25	0.12	0.147	14.40	14.80	1.096	0.161	/
	Level1&2&3			Right Cheek	0	522000	2610	1	25	0.14	0.397	14.46	14.80	1.081	0.429	/
	Level1&2&3				0	516000	2580	25	25	-0.12	0.381	14.40	14.80	1.096	0.418	/
	Level1&2&3			Right Tilt	0	522000	2610	1	25	0.03	0.457	14.46	14.80	1.081	0.494	/
	Level1&2&3				0	516000	2580	25	25	0.01	0.499	14.40	14.80	1.096	**0.547**	56#
Body-worn Accessory																
ANT0	Level4	DFT-s-OFDM BPSK	SA	Front Side	15	519000	2595	1	49	0.10	0.171	22.83	23.80	1.250	0.214	/
	Level4				15	519000	2595	25	25	-0.03	0.161	22.75	23.80	1.274	0.205	/
	Level4			Back Side	15	519000	2595	1	49	0.08	0.343	22.83	23.80	1.250	**0.429**	57#
	Level4				15	519000	2595	25	25	0.05	0.315	22.75	23.80	1.274	0.401	/
ANT1	Level4	DFT-s-OFDM BPSK	SA	Front Side	15	522000	2610	1	1	-0.11	0.174	21.08	21.80	1.180	0.205	/
	Level4				15	516000	2580	25	0	-0.19	0.168	21.15	21.80	1.161	0.195	/
	Level4			Back Side	15	522000	2610	1	1	-0.14	0.298	21.08	21.80	1.180	0.352	/
	Level4				15	516000	2580	25	0	-0.01	0.284	21.15	21.80	1.161	0.330	/
Hotspot																
ANT0	Level5&6	DFT-s-OFDM BPSK	SA	Front Side	10	522000	2610	1	49	-0.06	0.228	22.15	22.80	1.161	0.265	/
	Level5&6				10	522000	2610	25	25	-0.14	0.210	22.27	22.80	1.130	0.237	/
	Level5&6			Back Side	10	522000	2610	1	49	0.19	0.446	22.15	22.80	1.161	0.518	/
	Level5&6				10	522000	2610	25	25	-0.08	0.438	22.27	22.80	1.130	0.495	/
	Level5&6			Left Edge	10	522000	2610	1	49	0.03	0.379	22.15	22.80	1.161	0.440	/
	Level5&6				10	522000	2610	25	25	0.12	0.366	22.27	22.80	1.130	0.414	/
	Level5&6			Right Edge	10	522000	2610	1	49	0.14	0.229	22.15	22.80	1.161	0.266	/
	Level5&6				10	522000	2610	25	25	0.01	0.223	22.27	22.80	1.130	0.252	/
ANT1	Level5&6	DFT-s-OFDM BPSK	SA	Bottom Edge	10	522000	2610	1	49	0.06	0.323	22.15	22.80	1.161	0.375	/
	Level5&6				10	522000	2610	25	25	0.02	0.317	22.27	22.80	1.130	0.358	/
	Level5&6			Front Side	10	522000	2610	1	49	-0.04	0.225	19.14	19.80	1.164	0.262	/
	Level5&6				10	519000	2595	25	25	-0.07	0.241	19.02	19.80	1.197	0.288	/
	Level5&6			Back Side	10	522000	2610	1	49	0.05	0.521	19.14	19.80	1.164	0.607	/

	Level5&6				10	519000	2595	25	25	-0.01	0.560	19.02	19.80	1.197	**0.670**	58#
	Level5&6			Right Edge	10	522000	2610	1	49	-0.14	0.255	19.14	19.80	1.164	0.297	/
	Level5&6				10	519000	2595	25	25	0.10	0.251	19.02	19.80	1.197	0.300	/
	Level5&6			Top Edge	10	522000	2610	1	49	-0.09	0.426	19.14	19.80	1.164	0.496	/
	Level5&6				10	519000	2595	25	25	-0.01	0.418	19.02	19.80	1.197	0.500	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																

Antenna	Power Reduction	Mode	Information	Position	Dist. (mm)	Ch.	Freq. (MHz)	VRB Length	VRB Start	Power Drift (dB)	10g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
Specific																
ANT1	Level4	DFT-s-OFDM BPSK	SA	Back Side	0	522000	2610	1	1	0.07	1.370	21.08	21.80	1.180	**1.617**	59#
	Level4				0	516000	2580	25	0	0.10	1.280	21.15	21.80	1.161	1.487	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																

10.21 5G n41 (100MHz Bandwidth)

Antenna	Power Reduction	Mode	Information	Position	Dist. (mm)	Ch.	Freq. (MHz)	VRB Length	VRB Start	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head																
ANT0	Level1&2&3	DFT-s-OFDM BPSK	SA	Left Cheek	0	518598	2592.99	1	1	-0.01	0.127	23.19	23.80	1.151	0.146	/
	Level1&2&3				0	518598	2592.99	135	0	0.13	0.118	23.11	23.80	1.172	0.138	/
	Level1&2&3			Left Tilt	0	518598	2592.99	1	1	0.05	0.108	23.19	23.80	1.151	0.124	/
	Level1&2&3				0	518598	2592.99	135	0	-0.12	0.108	23.11	23.80	1.172	0.127	/
	Level1&2&3			Right Cheek	0	518598	2592.99	1	1	0.08	0.230	23.19	23.80	1.151	0.265	/
	Level1&2&3				0	518598	2592.99	135	0	-0.07	0.215	23.11	23.80	1.172	0.252	/
	Level1&2&3			Right Tilt	0	518598	2592.99	1	1	0.14	0.087	23.19	23.80	1.151	0.100	/
	Level1&2&3				0	518598	2592.99	135	0	-0.09	0.079	23.11	23.80	1.172	0.093	/
ANT1	Level1	DFT-s-OFDM BPSK	SA	Left Cheek	0	518598	2592.99	1	1	0.18	0.180	15.44	15.80	1.086	0.196	/
	Level1				0	518598	2592.99	135	0	0.19	0.175	15.38	15.80	1.102	0.193	/
	Level1			Left Tilt	0	518598	2592.99	1	1	-0.03	0.221	15.44	15.80	1.086	0.240	/
	Level1				0	518598	2592.99	135	0	-0.04	0.213	15.38	15.80	1.102	0.235	/
	Level1			Right Cheek	0	518598	2592.99	1	1	-0.06	0.530	15.44	15.80	1.086	0.576	/
	Level1				0	518598	2592.99	135	0	-0.10	0.522	15.38	15.80	1.102	0.575	/
	Level1			Right Tilt	0	518598	2592.99	1	1	0.11	0.702	15.44	15.80	1.086	**0.763**	60#
	Level1				0	518598	2592.99	135	0	0.19	0.685	15.38	15.80	1.102	0.755	/
ANT1	Level2&3	DFT-s-OFDM BPSK	SA	Left Cheek	0	518598	2592.99	1	137	0.12	0.149	14.51	14.80	1.069	0.159	/
	Level2&3				0	518598	2592.99	135	0	0.03	0.148	14.48	14.80	1.076	0.159	/
	Level2&3			Left Tilt	0	518598	2592.99	1	137	-0.17	0.180	14.51	14.80	1.069	0.192	/
	Level2&3				0	518598	2592.99	135	0	0.09	0.172	14.48	14.80	1.076	0.185	/
	Level2&3			Right Cheek	0	518598	2592.99	1	137	-0.11	0.429	14.51	14.80	1.069	0.459	/
	Level2&3				0	518598	2592.99	135	0	0.13	0.432	14.48	14.80	1.076	0.465	/
	Level2&3			Right Tilt	0	518598	2592.99	1	137	-0.09	0.520	14.51	14.80	1.069	0.556	/
	Level2&3				0	518598	2592.99	135	0	0.02	0.508	14.48	14.80	1.076	0.547	/
Body-worn Accessory																
ANT0	Level4	DFT-s-OFDM BPSK	SA	Front Side	15	518598	2592.99	1	1	0.16	0.147	23.19	23.80	1.151	0.169	/
	Level4				15	518598	2592.99	135	0	-0.16	0.144	23.11	23.80	1.172	0.169	/
	Level4			Back Side	15	518598	2592.99	1	1	-0.02	0.310	23.19	23.80	1.151	**0.357**	61#
	Level4				15	518598	2592.99	135	0	-0.07	0.301	23.11	23.80	1.172	0.353	/
ANT1	Level4	DFT-s-OFDM BPSK	SA	Front Side	15	509202	2546.01	1	1	-0.19	0.083	18.54	18.80	1.062	0.088	/
	Level4				15	518598	2592.99	135	0	-0.02	0.075	18.51	18.80	1.069	0.080	/
	Level4			Back Side	15	509202	2546.01	1	1	0.03	0.152	18.54	18.80	1.062	0.161	/
	Level4				15	518598	2592.99	135	0	-0.01	0.165	18.51	18.80	1.069	0.176	/
Hotspot																
ANT0	Level5&6	DFT-s-OFDM BPSK	SA	Front Side	10	518598	2592.99	1	1	-0.04	0.263	23.19	23.80	1.151	0.303	/
	Level5&6				10	518598	2592.99	135	0	-0.19	0.258	23.11	23.80	1.172	0.302	/
	Level5&6			Back Side	10	518598	2592.99	1	1	0.07	0.460	23.19	23.80	1.151	0.529	/
	Level5&6				10	518598	2592.99	135	0	0.06	0.453	23.11	23.80	1.172	0.531	/
	Level5&6			Left Edge	10	518598	2592.99	1	1	-0.11	0.249	23.19	23.80	1.151	0.287	/

	Level5&6				10	518598	2592.99	135	0	-0.06	0.235	23.11	23.80	1.172	0.275	/
	Level5&6			Right Edge	10	518598	2592.99	1	1	-0.13	0.046	23.19	23.80	1.151	0.052	/
	Level5&6				10	518598	2592.99	135	0	-0.17	0.042	23.11	23.80	1.172	0.049	/
ANT1	Level5&6	DFT-s-OFDM BPSK	SA	Bottom Edge	10	518598	2592.99	1	1	-0.13	0.400	23.19	23.80	1.151	0.460	/
	Level5&6				10	518598	2592.99	135	0	0.08	0.385	23.11	23.80	1.172	0.451	/
	Level5&6			Front Side	10	509202	2546.01	1	1	0.10	0.164	18.54	18.80	1.062	0.174	/
	Level5&6				10	518598	2592.99	135	0	0.05	0.158	18.51	18.80	1.069	0.169	/
	Level5&6			Back Side	10	509202	2546.01	1	1	0.01	0.335	18.54	18.80	1.062	0.356	/
	Level5&6				10	518598	2592.99	135	0	-0.02	0.324	18.51	18.80	1.069	0.346	/
	Level5&6			Right Edge	10	509202	2546.01	1	1	-0.05	0.176	18.54	18.80	1.062	0.187	/
	Level5&6				10	518598	2592.99	135	0	0.04	0.181	18.51	18.80	1.069	0.193	/
	Level5&6			Top Edge	10	509202	2546.01	1	1	0.12	0.787	18.54	18.80	1.062	**0.836**	62#
	Level5&6				10	513900	2569.5	1	1	-0.18	0.735	18.49	18.80	1.074	0.789	/
	Level5&6				10	518598	2592.99	1	271	-0.07	0.721	18.48	18.80	1.076	0.776	/
	Level5&6				10	523302	2616.51	1	1	-0.05	0.715	18.50	18.80	1.072	0.766	/
	Level5&6				10	528000	2640	1	271	0.14	0.744	18.49	18.80	1.074	0.799	/
	Level5&6				10	518598	2592.99	135	0	0.07	0.444	18.51	18.80	1.069	0.475	/
	Level5&6				10	518598	2592.99	270	0	-0.16	0.471	18.42	18.80	1.091	0.514	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																

Antenna	Power Reduction	Mode	Information	Position	Dist. (mm)	Ch.	Freq. (MHz)	VRB Length	VRB Start	Power Drift (dB)	10g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
Specific																
ANT1	Level4	DFT-s-OFDM BPSK	SA	Top Edge	0	509202	2546.01	1	1	0.14	0.783	18.54	18.80	1.062	**0.831**	63#
	Level4				0	513900	2569.5	1	1	-0.03	0.674	18.49	18.80	1.074	0.724	/
	Level4				0	518598	2592.99	1	271	-0.11	0.681	18.48	18.80	1.076	0.733	/
	Level4				0	523302	2616.51	1	1	-0.03	0.758	18.50	18.80	1.072	0.812	/
	Level4				0	528000	2640	1	271	0.12	0.746	18.49	18.80	1.074	0.801	/
	Level4				0	518598	2592.99	135	0	-0.11	0.718	18.51	18.80	1.069	0.768	/
	Level4				0	518598	2592.99	270	0	0.05	0.716	18.42	18.80	1.091	0.781	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																

10.22 WIFI 2.4GHz

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.7	Level1	802.11 b	Left Cheek	0	6	2437	-0.02	0.604	99.70	1.003	15.75	17.00	1.334	0.808	/
	Level1			0	1	2412	-0.16	0.855	99.70	1.003	15.72	17.00	1.343	**1.152**	64#
	Level1			0	11	2462	0.01	0.592	99.70	1.003	15.67	17.00	1.358	0.807	/
	Level1		Left Tilt	0	6	2437	-0.14	0.463	99.70	1.003	15.75	17.00	1.334	0.619	/
	Level1		Right Cheek	0	6	2437	-0.12	0.256	99.70	1.003	15.75	17.00	1.334	0.342	/
	Level1		Right Tilt	0	6	2437	0.06	0.310	99.70	1.003	15.75	17.00	1.334	0.415	/
Ant.7	Level2	802.11 b	Left Cheek	0	1	2412	0.03	0.385	99.70	1.003	13.81	15.00	1.315	0.508	/
	Level2		Left Tilt	0	1	2412	0.07	0.302	99.70	1.003	13.81	15.00	1.315	0.398	/
	Level2		Right Cheek	0	1	2412	-0.13	0.171	99.70	1.003	13.81	15.00	1.315	0.226	/
	Level2		Right Tilt	0	1	2412	-0.10	0.203	99.70	1.003	13.81	15.00	1.315	0.268	/
Body-worn Accessory															
Ant.7	Level3	802.11 b	Front Side	15	11	2462	0.05	0.135	99.70	1.003	18.75	20.00	1.334	0.181	/
	Level3		Back Side	15	11	2462	-0.13	0.150	99.70	1.003	18.75	20.00	1.334	**0.201**	65#
Hotspot															
Ant.7	Level4	802.11 b	Front Side	10	11	2462	0.01	0.174	99.70	1.003	18.75	20.00	1.334	0.233	/
	Level4		Back Side	10	11	2462	0.06	0.218	99.70	1.003	18.75	20.00	1.334	0.292	/
	Level4		Left Edge	10	11	2462	0.14	0.168	99.70	1.003	18.75	20.00	1.334	0.225	/
	Level4		Right Edge	10	11	2462	0.05	0.038	99.70	1.003	18.75	20.00	1.334	0.051	/
	Level4		Top Edge	10	11	2462	0.19	0.253	99.70	1.003	18.75	20.00	1.334	**0.338**	66#
	Level4		Bottom Edge	10	11	2462	0.11	0.025	99.70	1.003	18.75	20.00	1.334	0.033	/

Note: Refer to ANNEX C for the detailed test data for each test configuration.

10.23 WIFI 5GHz

Fre. Band	Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head																
5.3G	Ant.7	Level1	802.11 a	Left Cheek	0	60	5300	0.06	0.737	97.60	1.025	15.09	16.50	1.384	**1.045**	67#
		Level1			0	52	5260	0.02	0.667	97.60	1.025	15.01	16.50	1.409	0.963	/
		Level1			0	64	5320	-0.08	0.640	97.60	1.025	14.98	16.50	1.419	0.931	/
		Level1		Left Tilt	0	60	5300	-0.16	0.684	97.60	1.025	15.09	16.50	1.384	0.970	/
		Level1		Right Cheek	0	60	5300	0.02	0.200	97.60	1.025	15.09	16.50	1.384	0.284	/
		Level1		Right Tilt	0	60	5300	0.09	0.180	97.60	1.025	15.09	16.50	1.384	0.255	/
5.3G	Ant.7	Level2	802.11 a	Left Cheek	0	60	5300	0.06	0.313	97.60	1.025	11.96	13.50	1.426	0.457	/
		Level2		Left Tilt	0	60	5300	-0.17	0.289	97.60	1.025	11.96	13.50	1.426	0.422	/
		Level2		Right Cheek	0	60	5300	0.14	0.115	97.60	1.025	11.96	13.50	1.426	0.168	/
		Level2		Right Tilt	0	60	5300	0.02	0.102	97.60	1.025	11.96	13.50	1.426	0.149	/
5.6G	Ant.7	Level1	802.11 a	Left Cheek	0	116	5580	0.02	0.661	97.60	1.025	15.78	16.50	1.180	**0.799**	68#
		Level1		Left Tilt	0	116	5580	-0.19	0.631	97.60	1.025	15.78	16.50	1.180	0.764	/
		Level1		Right Cheek	0	116	5580	0.14	0.186	97.60	1.025	15.78	16.50	1.180	0.225	/
		Level1		Right Tilt	0	116	5580	-0.09	0.224	97.60	1.025	15.78	16.50	1.180	0.271	/
5.6G	Ant.7	Level2	802.11 a	Left Cheek	0	140	5700	0.07	0.312	97.60	1.025	12.65	13.50	1.216	0.389	/
		Level2		Left Tilt	0	140	5700	-0.15	0.302	97.60	1.025	12.65	13.50	1.216	0.376	/
		Level2		Right Cheek	0	140	5700	0.09	0.099	97.60	1.025	12.65	13.50	1.216	0.123	/
		Level2		Right Tilt	0	140	5700	0.16	0.119	97.60	1.025	12.65	13.50	1.216	0.148	/
5.8G	Ant.7	Level1	802.11 ac80	Left Cheek	0	155	5775	0.16	0.458	90.80	1.101	14.61	16.00	1.377	**0.695**	69#
		Level1		Left Tilt	0	155	5775	0.07	0.449	90.80	1.101	14.61	16.00	1.377	0.681	/
		Level1		Right Cheek	0	155	5775	-0.09	0.272	90.80	1.101	14.61	16.00	1.377	0.413	/
		Level1		Right Tilt	0	155	5775	-0.17	0.305	90.80	1.101	14.61	16.00	1.377	0.463	/
5.8G	Ant.7	Level2	802.11 ac80	Left Cheek	0	155	5775	-0.14	0.263	90.80	1.101	11.53	13.00	1.403	0.406	/
		Level2		Left Tilt	0	155	5775	-0.19	0.191	90.80	1.101	11.53	13.00	1.403	0.295	/
		Level2		Right Cheek	0	155	5775	0.07	0.104	90.80	1.101	11.53	13.00	1.403	0.161	/
		Level2		Right Tilt	0	155	5775	0.11	0.115	90.80	1.101	11.53	13.00	1.403	0.178	/
Body-worn Accessory																
5.3G	Ant.7	Level3	802.11 a	Front Side	15	60	5300	0.07	0.156	97.60	1.025	18.17	19.50	1.358	0.217	/
		Level3		Back Side	15	60	5300	0.14	0.304	97.60	1.025	18.17	19.50	1.358	**0.423**	70#
5.6G	Ant.7	Level3	802.11 a	Front Side	15	116	5580	0.11	0.187	97.60	1.025	18.86	19.50	1.159	0.222	/
		Level3		Back Side	15	116	5580	0.19	0.440	97.60	1.025	18.86	19.50	1.159	**0.522**	71#
5.8G	Ant.7	Level3	802.11 ac80	Front Side	15	155	5775	-0.14	0.080	90.80	1.101	14.61	16.00	1.377	0.121	/
		Level3		Back Side	15	155	5775	0.11	0.150	90.80	1.101	14.61	16.00	1.377	0.228	72#
Hotspot																
5.2G	Ant.7	Level4	802.11 a	Front Side	10	44	5220	-0.01	0.305	97.60	1.025	18.12	19.50	1.374	0.429	/
		Level4		Back Side	10	44	5220	0.03	0.459	97.60	1.025	18.12	19.50	1.374	**0.646**	73#
		Level4		Left Edge	10	44	5220	0.17	0.413	97.60	1.025	18.12	19.50	1.374	0.581	/
		Level4		Right Edge	10	44	5220	-0.16	0.041	97.60	1.025	18.12	19.50	1.374	0.058	/
		Level4		Top Edge	10	44	5220	-0.09	0.365	97.60	1.025	18.12	19.50	1.374	0.514	/

		Level4		Bottom Edge	10	44	5220	0.06	0.025	97.60	1.025	18.12	19.50	1.374	0.035	/
5.8G	Ant.7	Level4	802.11 ac80	Front Side	10	155	5775	0.03	0.126	90.80	1.101	14.61	16.00	1.377	0.191	/
		Level4		Back Side	10	155	5775	-0.03	0.277	90.80	1.101	14.61	16.00	1.377	**0.420**	74#
		Level4		Left Edge	10	155	5775	0.05	0.199	90.80	1.101	14.61	16.00	1.377	0.302	/
		Level4		Right Edge	10	155	5775	0.02	0.032	90.80	1.101	14.61	16.00	1.377	0.049	/
		Level4		Top Edge	10	155	5775	0.19	0.186	90.80	1.101	14.61	16.00	1.377	0.282	/
		Level4		Bottom Edge	10	155	5775	0.04	0.018	90.80	1.101	14.61	16.00	1.377	0.027	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																

Fre. Band	Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
Specific																
5.3G	Ant.7	Level3	802.11a	Front Side	0	60	5300	-0.16	0.856	97.60	1.025	18.17	19.50	1.358	1.191	/
		Level3		Back Side	0	60	5300	-0.01	0.619	97.60	1.025	18.17	19.50	1.358	0.861	/
		Level3		Left Edge	0	60	5300	-0.15	0.898	97.60	1.025	18.17	19.50	1.358	**1.250**	75#
		Level3		Right Edge	0	60	5300	-0.16	0.058	97.60	1.025	18.17	19.50	1.358	0.081	/
		Level3		Top Edge	0	60	5300	0.15	0.825	97.60	1.025	18.17	19.50	1.358	1.148	/
		Level3		Bottom Edge	0	60	5300	0.04	0.036	97.60	1.025	18.17	19.50	1.358	0.050	/
5.6G	Ant.7	Level3	802.11a	Front Side	0	116	5580	0.07	0.791	97.60	1.025	18.86	19.50	1.159	0.939	/
		Level3		Back Side	0	116	5580	0.18	1.110	97.60	1.025	18.86	19.50	1.159	1.318	/
		Level3		Left Edge	0	116	5580	0.05	1.230	97.60	1.025	18.86	19.50	1.159	**1.460**	76#
		Level3		Right Edge	0	116	5580	-0.18	0.077	97.60	1.025	18.86	19.50	1.159	0.091	/
		Level3		Top Edge	0	116	5580	-0.12	1.060	97.60	1.025	18.86	19.50	1.159	1.259	/
		Level3		Bottom Edge	0	116	5580	-0.17	0.046	97.60	1.025	18.86	19.50	1.159	0.055	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																

10.24 Bluetooth

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head														
Ant.7	DH5	Left Cheek	0	0	2402	0.01	0.213	77.00	1.299	12.84	14.50	1.466	**0.405**	77#
		Left Tilt	0	0	2402	0.02	0.156	77.00	1.299	12.84	14.50	1.466	0.297	/
		Right Cheek	0	0	2402	-0.06	0.086	77.00	1.299	12.84	14.50	1.466	0.163	/
		Right Tilt	0	0	2402	0.05	0.108	77.00	1.299	12.84	14.50	1.466	0.206	/
Body-worn Accessory														
Ant.7	DH5	Front Side	15	0	2402	0.04	0.022	77.00	1.299	12.84	14.50	1.466	**0.041**	78#
		Back Side	15	0	2402	0.08	0.020	77.00	1.299	12.84	14.50	1.466	0.038	/
Hotspot														
Ant.7	DH5	Front Side	10	0	2402	-0.02	0.034	77.00	1.299	12.84	14.50	1.466	0.064	/
		Back Side	10	0	2402	0.03	0.034	77.00	1.299	12.84	14.50	1.466	0.064	/
		Left Edge	10	0	2402	-0.17	0.025	77.00	1.299	12.84	14.50	1.466	0.047	/
		Right Edge	10	0	2402	0.02	0.014	77.00	1.299	12.84	14.50	1.466	0.027	/
		Top Edge	10	0	2402	0.09	0.043	77.00	1.299	12.84	14.50	1.466	**0.082**	79#
		Bottom Edge	10	0	2402	0.03	0.011	77.00	1.299	12.84	14.50	1.466	0.021	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

11 SAR Measurement Variability

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

SAR repeated measurement procedure:

1. When the highest measured SAR is < 0.80 W/kg, repeated measurement is not required.
2. When the highest measured SAR is >= 0.80 W/kg, repeat that measurement once.
3. 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, perform a second repeated measurement.
4. If the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20, and the original, first or second repeated measurement is >= 1.5 W/kg, perform a third repeated measurement.

Frequency Band (MHz)	Wireless Band	RF Exposure Conditions	Test Position	Highest Measured SAR (W/kg)	Repeated SAR (Yes/No)	Repeated^{1th} Measured SAR (W/kg)	Largest to Smallest SAR Radio
1860	LTE Band 2	Head	Right Tilt	0.881	Yes	0.864	1.02
836.5	LTE Band 5	Head	Right Cheek	0.885	Yes	0.867	1.02
821.5	LTE Band 26	Head	Right Cheek	0.846	Yes	0.826	1.02
2510	5G n7	Hotspot	Top Edge	0.804	Yes	0.783	1.03
2412	2.4G WIFI	Head	Left Cheek	0.855	Yes	0.833	1.03
Note: The ratio of largest to smallest SAR for the original and first repeated measurements is < 1.20, the second repeated measurement. is not required.							

Note: For product specific 10g SAR, the highest measured 10g SAR is 1.921 < 2.0 W/kg, repeated measurement is not required.

12 SIMULTANEOUS TRANSMISSION

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

12.1 Simultaneous Transmission Mode Consider

No.	Simultaneous Tx Combination	Head	Body-worn	Hotspot	Specific
1	GSM + 2.4G WIFI	Yes	Yes	Yes	--
2	GSM + 5G WIFI	--	--	--	Yes
3	GSM + 5G WIFI + Bluetooth	Yes	Yes	Yes	--
4	WCDMA + 2.4G WIFI	Yes	Yes	Yes	--
5	WCDMA + 5G WIFI	--	--	--	Yes
6	WCDMA + 5G WIFI + Bluetooth	Yes	Yes	Yes	--
7	LTE + 2.4G WIFI	Yes	Yes	Yes	--
8	LTE + 5G WIFI	--	--	--	Yes
9	LTE + 5G WIFI + Bluetooth	Yes	Yes	Yes	--
10	5G NR + 2.4G WIFI	Yes	Yes	Yes	--
11	5G NR + 5G WIFI	--	--	--	Yes
12	5G NR + 5G WIFI + Bluetooth	Yes	Yes	Yes	--

Note:

1. 2G&3G&4G&5G share the same antenna and can’t transmit simultaneously.
2. 2.4G WLAN can’t transmit simultaneously with Bluetooth or 5G WLAN.
3. Two WWAN antennas can switch automatically, but up and down antenna can't transmit simultaneously.
4. The maximum SAR summation is calculated based on the same configuration and test position.
5. This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
6. This device 2.4GHz WLAN/5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WiFi Direct (GC/GO), and 5.3GHz WLAN/5.5GHz WLAN supports WiFi Direct (GC only).

12.2 Sum SAR of Simultaneous Transmission

12.2.1 Head Simultaneous Transmission SAR Evaluation for WWAN Antenna with WLAN and Bluetooth

Band	Antenna	Position	Stand alone SAR							SUM SAR	
			1	2	3			3	4		
			WWAN	2.4GWIFI	5.3GWIFI	5.6GWIFI	5.8GWIFI	MAX. 5GWIFI	Bluetooth	Sum SAR (1+2)	Sum SAR (1+3+4)
GSM850	Ant.1	Left Cheek	0.237	0.508	0.457	0.389	0.406	0.457	0.405	0.745	1.100
	Ant.1	Left Tilt	0.185	0.398	0.422	0.376	0.295	0.422	0.297	0.583	0.904
	Ant.1	Right Cheek	0.315	0.226	0.168	0.123	0.161	0.168	0.163	0.541	0.647
	Ant.1	Right Tilt	0.216	0.268	0.149	0.148	0.178	0.178	0.206	0.484	0.599
GSM850	Ant.0	Left Cheek	0.298	0.508	0.457	0.389	0.406	0.457	0.405	0.806	1.161
	Ant.0	Left Tilt	0.165	0.398	0.422	0.376	0.295	0.422	0.297	0.563	0.884
	Ant.0	Right Cheek	0.634	0.226	0.168	0.123	0.161	0.168	0.163	0.859	0.965
	Ant.0	Right Tilt	0.131	0.268	0.149	0.148	0.178	0.178	0.206	0.399	0.514
GSM 1900	Ant.1	Left Cheek	0.230	0.508	0.457	0.389	0.406	0.457	0.405	0.738	1.093
	Ant.1	Left Tilt	0.277	0.398	0.422	0.376	0.295	0.422	0.297	0.675	0.996
	Ant.1	Right Cheek	0.332	0.226	0.168	0.123	0.161	0.168	0.163	0.558	0.664
	Ant.1	Right Tilt	0.406	0.268	0.149	0.148	0.178	0.178	0.206	0.673	0.789
GSM 1900	Ant.0	Left Cheek	0.109	0.508	0.457	0.389	0.406	0.457	0.405	0.617	0.971
	Ant.0	Left Tilt	0.063	0.398	0.422	0.376	0.295	0.422	0.297	0.462	0.783
	Ant.0	Right Cheek	0.071	0.226	0.168	0.123	0.161	0.168	0.163	0.296	0.402
	Ant.0	Right Tilt	0.057	0.268	0.149	0.148	0.178	0.178	0.206	0.325	0.441
WCDMA B2	Ant.1	Left Cheek	0.467	0.508	0.457	0.389	0.406	0.457	0.405	0.975	1.330
	Ant.1	Left Tilt	0.570	0.398	0.422	0.376	0.295	0.422	0.297	0.969	1.290
	Ant.1	Right Cheek	0.688	0.226	0.168	0.123	0.161	0.168	0.163	0.914	1.020
	Ant.1	Right Tilt	0.854	0.268	0.149	0.148	0.178	0.178	0.206	1.122	1.237
WCDMA B2	Ant.0	Left Cheek	0.140	0.508	0.457	0.389	0.406	0.457	0.405	0.648	1.003
	Ant.0	Left Tilt	0.078	0.398	0.422	0.376	0.295	0.422	0.297	0.477	0.797
	Ant.0	Right Cheek	0.096	0.226	0.168	0.123	0.161	0.168	0.163	0.321	0.427
	Ant.0	Right Tilt	0.076	0.268	0.149	0.148	0.178	0.178	0.206	0.344	0.459
WCDMA B4	Ant.1	Left Cheek	0.208	0.508	0.457	0.389	0.406	0.457	0.405	0.716	1.070
	Ant.1	Left Tilt	0.243	0.398	0.422	0.376	0.295	0.422	0.297	0.641	0.962
	Ant.1	Right Cheek	0.318	0.226	0.168	0.123	0.161	0.168	0.163	0.543	0.649
	Ant.1	Right Tilt	0.325	0.268	0.149	0.148	0.178	0.178	0.206	0.593	0.709
WCDMA B4	Ant.0	Left Cheek	0.119	0.508	0.457	0.389	0.406	0.457	0.405	0.627	0.982
	Ant.0	Left Tilt	0.053	0.398	0.422	0.376	0.295	0.422	0.297	0.451	0.772
	Ant.0	Right Cheek	0.085	0.226	0.168	0.123	0.161	0.168	0.163	0.310	0.416
	Ant.0	Right Tilt	0.069	0.268	0.149	0.148	0.178	0.178	0.206	0.337	0.452
WCDMA B5	Ant.1	Left Cheek	0.495	0.508	0.457	0.389	0.406	0.457	0.405	1.003	1.357
	Ant.1	Left Tilt	0.419	0.398	0.422	0.376	0.295	0.422	0.297	0.817	1.138
	Ant.1	Right Cheek	0.675	0.226	0.168	0.123	0.161	0.168	0.163	0.900	1.006
	Ant.1	Right Tilt	0.524	0.268	0.149	0.148	0.178	0.178	0.206	0.792	0.908
	Ant.0	Left Cheek	0.200	0.508	0.457	0.389	0.406	0.457	0.405	0.708	1.062

WCDMA B5	Ant.0	Left Tilt	0.104	0.398	0.422	0.376	0.295	0.422	0.297	0.502	0.823
	Ant.0	Right Cheek	0.154	0.226	0.168	0.123	0.161	0.168	0.163	0.380	0.486
	Ant.0	Right Tilt	0.080	0.268	0.149	0.148	0.178	0.178	0.206	0.348	0.464
LTE B2	Ant.1	Left Cheek	0.520	0.508	0.457	0.389	0.406	0.457	0.405	1.028	1.383
	Ant.1	Left Tilt	0.614	0.398	0.422	0.376	0.295	0.422	0.297	1.012	1.333
	Ant.1	Right Cheek	0.798	0.226	0.168	0.123	0.161	0.168	0.163	1.023	1.129
	Ant.1	Right Tilt	1.089	0.268	0.149	0.148	0.178	0.178	0.206	1.357	**1.472**
LTE B2	Ant.0	Left Cheek	0.130	0.508	0.457	0.389	0.406	0.457	0.405	0.638	0.993
	Ant.0	Left Tilt	0.077	0.398	0.422	0.376	0.295	0.422	0.297	0.475	0.796
	Ant.0	Right Cheek	0.091	0.226	0.168	0.123	0.161	0.168	0.163	0.317	0.423
	Ant.0	Right Tilt	0.076	0.268	0.149	0.148	0.178	0.178	0.206	0.343	0.459
LTE B4	Ant.1	Left Cheek	0.230	0.508	0.457	0.389	0.406	0.457	0.405	0.738	1.093
	Ant.1	Left Tilt	0.267	0.398	0.422	0.376	0.295	0.422	0.297	0.666	0.986
	Ant.1	Right Cheek	0.362	0.226	0.168	0.123	0.161	0.168	0.163	0.588	0.693
	Ant.1	Right Tilt	0.368	0.268	0.149	0.148	0.178	0.178	0.206	0.636	0.751
LTE B4	Ant.0	Left Cheek	0.140	0.508	0.457	0.389	0.406	0.457	0.405	0.647	1.002
	Ant.0	Left Tilt	0.068	0.398	0.422	0.376	0.295	0.422	0.297	0.467	0.787
	Ant.0	Right Cheek	0.083	0.226	0.168	0.123	0.161	0.168	0.163	0.308	0.414
	Ant.0	Right Tilt	0.074	0.268	0.149	0.148	0.178	0.178	0.206	0.342	0.457
LTE B5	Ant.1	Left Cheek	0.595	0.508	0.457	0.389	0.406	0.457	0.405	1.103	1.458
	Ant.1	Left Tilt	0.515	0.398	0.422	0.376	0.295	0.422	0.297	0.913	1.234
	Ant.1	Right Cheek	0.789	0.226	0.168	0.123	0.161	0.168	0.163	1.015	1.121
	Ant.1	Right Tilt	0.649	0.268	0.149	0.148	0.178	0.178	0.206	0.917	1.033
LTE B5	Ant.0	Left Cheek	0.233	0.508	0.457	0.389	0.406	0.457	0.405	0.741	1.096
	Ant.0	Left Tilt	0.126	0.398	0.422	0.376	0.295	0.422	0.297	0.524	0.845
	Ant.0	Right Cheek	0.165	0.226	0.168	0.123	0.161	0.168	0.163	0.391	0.496
	Ant.0	Right Tilt	0.080	0.268	0.149	0.148	0.178	0.178	0.206	0.348	0.463
LTE B7	Ant.1	Left Cheek	0.161	0.508	0.457	0.389	0.406	0.457	0.405	0.669	1.024
	Ant.1	Left Tilt	0.212	0.398	0.422	0.376	0.295	0.422	0.297	0.611	0.932
	Ant.1	Right Cheek	0.473	0.226	0.168	0.123	0.161	0.168	0.163	0.699	0.804
	Ant.1	Right Tilt	0.534	0.268	0.149	0.148	0.178	0.178	0.206	0.802	0.917
LTE B7	Ant.0	Left Cheek	0.060	0.508	0.457	0.389	0.406	0.457	0.405	0.567	0.922
	Ant.0	Left Tilt	0.022	0.398	0.422	0.376	0.295	0.422	0.297	0.420	0.741
	Ant.0	Right Cheek	0.112	0.226	0.168	0.123	0.161	0.168	0.163	0.337	0.443
	Ant.0	Right Tilt	0.061	0.268	0.149	0.148	0.178	0.178	0.206	0.329	0.444
LTE B12	Ant.1	Left Cheek	0.325	0.508	0.457	0.389	0.406	0.457	0.405	0.833	1.188
	Ant.1	Left Tilt	0.317	0.398	0.422	0.376	0.295	0.422	0.297	0.716	1.036
	Ant.1	Right Cheek	0.540	0.226	0.168	0.123	0.161	0.168	0.163	0.766	0.872
	Ant.1	Right Tilt	0.499	0.268	0.149	0.148	0.178	0.178	0.206	0.767	0.883
LTE B12	Ant.0	Left Cheek	0.133	0.508	0.457	0.389	0.406	0.457	0.405	0.641	0.996
	Ant.0	Left Tilt	0.075	0.398	0.422	0.376	0.295	0.422	0.297	0.473	0.794
	Ant.0	Right Cheek	0.088	0.226	0.168	0.123	0.161	0.168	0.163	0.314	0.419
	Ant.0	Right Tilt	0.047	0.268	0.149	0.148	0.178	0.178	0.206	0.314	0.430
LTE B26	Ant.1	Left Cheek	0.570	0.508	0.457	0.389	0.406	0.457	0.405	1.078	1.433
	Ant.1	Left Tilt	0.540	0.398	0.422	0.376	0.295	0.422	0.297	0.939	1.259

	Ant.1	Right Cheek	0.897	0.226	0.168	0.123	0.161	0.168	0.163	1.122	1.228
	Ant.1	Right Tilt	0.708	0.268	0.149	0.148	0.178	0.178	0.206	0.976	1.092
LTE B26	Ant.0	Left Cheek	0.215	0.508	0.457	0.389	0.406	0.457	0.405	0.722	1.077
	Ant.0	Left Tilt	0.117	0.398	0.422	0.376	0.295	0.422	0.297	0.515	0.836
	Ant.0	Right Cheek	0.123	0.226	0.168	0.123	0.161	0.168	0.163	0.349	0.455
	Ant.0	Right Tilt	0.085	0.268	0.149	0.148	0.178	0.178	0.206	0.353	0.468
LTE B66	Ant.1	Left Cheek	0.205	0.508	0.457	0.389	0.406	0.457	0.405	0.713	1.067
	Ant.1	Left Tilt	0.223	0.398	0.422	0.376	0.295	0.422	0.297	0.622	0.942
	Ant.1	Right Cheek	0.303	0.226	0.168	0.123	0.161	0.168	0.163	0.528	0.634
	Ant.1	Right Tilt	0.362	0.268	0.149	0.148	0.178	0.178	0.206	0.630	0.745
LTE B66	Ant.0	Left Cheek	0.123	0.508	0.457	0.389	0.406	0.457	0.405	0.630	0.985
	Ant.0	Left Tilt	0.052	0.398	0.422	0.376	0.295	0.422	0.297	0.450	0.771
	Ant.0	Right Cheek	0.075	0.226	0.168	0.123	0.161	0.168	0.163	0.301	0.407
	Ant.0	Right Tilt	0.072	0.268	0.149	0.148	0.178	0.178	0.206	0.340	0.455
LTE B38	Ant.1	Left Cheek	0.065	0.508	0.457	0.389	0.406	0.457	0.405	0.573	0.928
	Ant.1	Left Tilt	0.085	0.398	0.422	0.376	0.295	0.422	0.297	0.484	0.804
	Ant.1	Right Cheek	0.166	0.226	0.168	0.123	0.161	0.168	0.163	0.391	0.497
	Ant.1	Right Tilt	0.205	0.268	0.149	0.148	0.178	0.178	0.206	0.473	0.588
LTE B38	Ant.0	Left Cheek	0.123	0.508	0.457	0.389	0.406	0.457	0.405	0.630	0.985
	Ant.0	Left Tilt	0.086	0.398	0.422	0.376	0.295	0.422	0.297	0.485	0.805
	Ant.0	Right Cheek	0.225	0.226	0.168	0.123	0.161	0.168	0.163	0.451	0.557
	Ant.0	Right Tilt	0.077	0.268	0.149	0.148	0.178	0.178	0.206	0.345	0.460
LTE B41	Ant.1	Left Cheek	0.065	0.508	0.457	0.389	0.406	0.457	0.405	0.573	0.927
	Ant.1	Left Tilt	0.081	0.398	0.422	0.376	0.295	0.422	0.297	0.479	0.800
	Ant.1	Right Cheek	0.142	0.226	0.168	0.123	0.161	0.168	0.163	0.368	0.474
	Ant.1	Right Tilt	0.157	0.268	0.149	0.148	0.178	0.178	0.206	0.425	0.540
LTE B41	Ant.0	Left Cheek	0.122	0.508	0.457	0.389	0.406	0.457	0.405	0.630	0.984
	Ant.0	Left Tilt	0.086	0.398	0.422	0.376	0.295	0.422	0.297	0.485	0.805
	Ant.0	Right Cheek	0.209	0.226	0.168	0.123	0.161	0.168	0.163	0.435	0.541
	Ant.0	Right Tilt	0.083	0.268	0.149	0.148	0.178	0.178	0.206	0.351	0.466
5G N5	Ant.0	Left Cheek	0.092	0.508	0.457	0.389	0.406	0.457	0.405	0.599	0.954
	Ant.0	Left Tilt	0.070	0.398	0.422	0.376	0.295	0.422	0.297	0.468	0.789
	Ant.0	Right Cheek	0.067	0.226	0.168	0.123	0.161	0.168	0.163	0.293	0.399
	Ant.0	Right Tilt	0.033	0.268	0.149	0.148	0.178	0.178	0.206	0.300	0.416
5G N5	Ant.1	Left Cheek	0.427	0.508	0.457	0.389	0.406	0.457	0.405	0.935	1.290
	Ant.1	Left Tilt	0.364	0.398	0.422	0.376	0.295	0.422	0.297	0.763	1.083
	Ant.1	Right Cheek	0.572	0.226	0.168	0.123	0.161	0.168	0.163	0.798	0.903
	Ant.1	Right Tilt	0.505	0.268	0.149	0.148	0.178	0.178	0.206	0.773	0.888
5G N7	Ant.0	Left Cheek	0.057	0.508	0.457	0.389	0.406	0.457	0.405	0.565	0.920
	Ant.0	Left Tilt	0.028	0.398	0.422	0.376	0.295	0.422	0.297	0.426	0.747
	Ant.0	Right Cheek	0.111	0.226	0.168	0.123	0.161	0.168	0.163	0.337	0.443
	Ant.0	Right Tilt	0.065	0.268	0.149	0.148	0.178	0.178	0.206	0.332	0.448
5G N7	Ant.1	Left Cheek	0.216	0.508	0.457	0.389	0.406	0.457	0.405	0.724	1.079
	Ant.1	Left Tilt	0.281	0.398	0.422	0.376	0.295	0.422	0.297	0.680	1.000
	Ant.1	Right Cheek	0.597	0.226	0.168	0.123	0.161	0.168	0.163	0.822	0.928

	Ant.1	Right Tilt	0.687	0.268	0.149	0.148	0.178	0.178	0.206	0.955	1.070
5G N38	Ant.0	Left Cheek	0.119	0.508	0.457	0.389	0.406	0.457	0.405	0.627	0.981
	Ant.0	Left Tilt	0.094	0.398	0.422	0.376	0.295	0.422	0.297	0.493	0.813
	Ant.0	Right Cheek	0.231	0.226	0.168	0.123	0.161	0.168	0.163	0.456	0.562
	Ant.0	Right Tilt	0.089	0.268	0.149	0.148	0.178	0.178	0.206	0.357	0.472
5G N38	Ant.1	Left Cheek	0.142	0.508	0.457	0.389	0.406	0.457	0.405	0.650	1.004
	Ant.1	Left Tilt	0.164	0.398	0.422	0.376	0.295	0.422	0.297	0.563	0.883
	Ant.1	Right Cheek	0.429	0.226	0.168	0.123	0.161	0.168	0.163	0.655	0.761
	Ant.1	Right Tilt	0.547	0.268	0.149	0.148	0.178	0.178	0.206	0.815	0.930
5G N41	Ant.0	Left Cheek	0.146	0.508	0.457	0.389	0.406	0.457	0.405	0.654	1.009
	Ant.0	Left Tilt	0.127	0.398	0.422	0.376	0.295	0.422	0.297	0.525	0.846
	Ant.0	Right Cheek	0.265	0.226	0.168	0.123	0.161	0.168	0.163	0.490	0.596
	Ant.0	Right Tilt	0.100	0.268	0.149	0.148	0.178	0.178	0.206	0.368	0.483
5G N41	Ant.1	Left Cheek	0.159	0.508	0.457	0.389	0.406	0.457	0.405	0.667	1.022
	Ant.1	Left Tilt	0.192	0.398	0.422	0.376	0.295	0.422	0.297	0.591	0.911
	Ant.1	Right Cheek	0.465	0.226	0.168	0.123	0.161	0.168	0.163	0.691	0.797
	Ant.1	Right Tilt	0.556	0.268	0.149	0.148	0.178	0.178	0.206	0.824	0.939

Note:

1: The simultaneous transmission combinations of the three antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 1g SAR is 1.472 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

12.2.2 Body-worn Simultaneous Transmission SAR Evaluation for WWAN Antenna with WLAN and Bluetooth

Band	Antenna	Position	Stand alone SAR							SUM SAR	
			1	2	3			3	4		
			WWAN	2.4GWIFI	5.2GWIFI	5.6GWIFI	5.8GWIFI	MAX. 5GWIFI	Bluetooth	Sum SAR (1+2)	Sum SAR (1+3+4)
GSM850	Ant.1	Front Side 15mm	0.176	0.181	0.217	0.222	0.121	0.222	0.041	0.356	0.439
	Ant.1	Back Side 15mm	0.202	0.201	0.423	0.522	0.228	0.522	0.038	0.402	0.762
GSM850	Ant.0	Front Side 15mm	0.215	0.181	0.217	0.222	0.121	0.222	0.041	0.396	0.479
	Ant.0	Back Side 15mm	0.240	0.201	0.423	0.522	0.228	0.522	0.038	0.441	0.800
GSM1900	Ant.1	Front Side 15mm	0.112	0.181	0.217	0.222	0.121	0.222	0.041	0.292	0.375
	Ant.1	Back Side 15mm	0.131	0.201	0.423	0.522	0.228	0.522	0.038	0.331	0.691
GSM1900	Ant.0	Front Side 15mm	0.174	0.181	0.217	0.222	0.121	0.222	0.041	0.355	0.438
	Ant.0	Back Side 15mm	0.266	0.201	0.423	0.522	0.228	0.522	0.038	0.466	0.826
WCDMA B2	Ant.1	Front Side 15mm	0.202	0.181	0.217	0.222	0.121	0.222	0.041	0.383	0.466
	Ant.1	Back Side 15mm	0.269	0.201	0.423	0.522	0.228	0.522	0.038	0.470	0.830
WCDMA B2	Ant.0	Front Side 15mm	0.159	0.181	0.217	0.222	0.121	0.222	0.041	0.340	0.423
	Ant.0	Back Side 15mm	0.246	0.201	0.423	0.522	0.228	0.522	0.038	0.446	0.806
WCDMA B4	Ant.1	Front Side 15mm	0.149	0.181	0.217	0.222	0.121	0.222	0.041	0.329	0.412
	Ant.1	Back Side 15mm	0.155	0.201	0.423	0.522	0.228	0.522	0.038	0.355	0.715
WCDMA B4	Ant.0	Front Side 15mm	0.114	0.181	0.217	0.222	0.121	0.222	0.041	0.295	0.378
	Ant.0	Back Side 15mm	0.163	0.201	0.423	0.522	0.228	0.522	0.038	0.364	0.723
WCDMA B5	Ant.1	Front Side 15mm	0.176	0.181	0.217	0.222	0.121	0.222	0.041	0.357	0.440
	Ant.1	Back Side 15mm	0.178	0.201	0.423	0.522	0.228	0.522	0.038	0.378	0.738
WCDMA B5	Ant.0	Front Side 15mm	0.110	0.181	0.217	0.222	0.121	0.222	0.041	0.290	0.373
	Ant.0	Back Side 15mm	0.152	0.201	0.423	0.522	0.228	0.522	0.038	0.352	0.712
LTE B2	Ant.1	Front Side 15mm	0.235	0.181	0.217	0.222	0.121	0.222	0.041	0.416	0.499
	Ant.1	Back Side 15mm	0.332	0.201	0.423	0.522	0.228	0.522	0.038	0.533	0.892
LTE B2	Ant.0	Front Side 15mm	0.201	0.181	0.217	0.222	0.121	0.222	0.041	0.382	0.464
	Ant.0	Back Side 15mm	0.295	0.201	0.423	0.522	0.228	0.522	0.038	0.496	0.855
LTE B4	Ant.1	Front Side 15mm	0.234	0.181	0.217	0.222	0.121	0.222	0.041	0.414	0.497
	Ant.1	Back Side 15mm	0.254	0.201	0.423	0.522	0.228	0.522	0.038	0.455	0.814
LTE B4	Ant.0	Front Side 15mm	0.155	0.181	0.217	0.222	0.121	0.222	0.041	0.335	0.418
	Ant.0	Back Side 15mm	0.212	0.201	0.423	0.522	0.228	0.522	0.038	0.413	0.772
LTE B5	Ant.1	Front Side 15mm	0.135	0.181	0.217	0.222	0.121	0.222	0.041	0.315	0.398
	Ant.1	Back Side 15mm	0.150	0.201	0.423	0.522	0.228	0.522	0.038	0.351	0.710
LTE B5	Ant.0	Front Side 15mm	0.158	0.181	0.217	0.222	0.121	0.222	0.041	0.339	0.422
	Ant.0	Back Side 15mm	0.156	0.201	0.423	0.522	0.228	0.522	0.038	0.356	0.716
LTE B7	Ant.1	Front Side 15mm	0.101	0.181	0.217	0.222	0.121	0.222	0.041	0.282	0.365
	Ant.1	Back Side 15mm	0.183	0.201	0.423	0.522	0.228	0.522	0.038	0.384	0.743
LTE B7	Ant.0	Front Side 15mm	0.113	0.181	0.217	0.222	0.121	0.222	0.041	0.294	0.377
	Ant.0	Back Side 15mm	0.144	0.201	0.423	0.522	0.228	0.522	0.038	0.345	0.704
LTE B12	Ant.1	Front Side 15mm	0.195	0.181	0.217	0.222	0.121	0.222	0.041	0.376	0.459
	Ant.1	Back Side 15mm	0.221	0.201	0.423	0.522	0.228	0.522	0.038	0.422	0.781
LTE B12	Ant.0	Front Side 15mm	0.166	0.181	0.217	0.222	0.121	0.222	0.041	0.346	0.429

	Ant.0	Back Side 15mm	0.190	0.201	0.423	0.522	0.228	0.522	0.038	0.391	0.750
LTE B26	Ant.1	Front Side 15mm	0.191	0.181	0.217	0.222	0.121	0.222	0.041	0.372	0.455
	Ant.1	Back Side 15mm	0.205	0.201	0.423	0.522	0.228	0.522	0.038	0.406	0.765
LTE B26	Ant.0	Front Side 15mm	0.173	0.181	0.217	0.222	0.121	0.222	0.041	0.354	0.437
	Ant.0	Back Side 15mm	0.188	0.201	0.423	0.522	0.228	0.522	0.038	0.389	0.748
LTE B66	Ant.1	Front Side 15mm	0.211	0.181	0.217	0.222	0.121	0.222	0.041	0.391	0.474
	Ant.1	Back Side 15mm	0.211	0.201	0.423	0.522	0.228	0.522	0.038	0.412	0.771
LTE B66	Ant.0	Front Side 15mm	0.116	0.181	0.217	0.222	0.121	0.222	0.041	0.297	0.380
	Ant.0	Back Side 15mm	0.221	0.201	0.423	0.522	0.228	0.522	0.038	0.421	0.781
LTE B38	Ant.1	Front Side 15mm	0.041	0.181	0.217	0.222	0.121	0.222	0.041	0.222	0.305
	Ant.1	Back Side 15mm	0.073	0.201	0.423	0.522	0.228	0.522	0.038	0.274	0.633
LTE B38	Ant.0	Front Side 15mm	0.076	0.181	0.217	0.222	0.121	0.222	0.041	0.257	0.339
	Ant.0	Back Side 15mm	0.095	0.201	0.423	0.522	0.228	0.522	0.038	0.296	0.655
LTE B41	Ant.1	Front Side 15mm	0.037	0.181	0.217	0.222	0.121	0.222	0.041	0.217	0.300
	Ant.1	Back Side 15mm	0.062	0.201	0.423	0.522	0.228	0.522	0.038	0.263	0.622
LTE B41	Ant.0	Front Side 15mm	0.058	0.181	0.217	0.222	0.121	0.222	0.041	0.238	0.321
	Ant.0	Back Side 15mm	0.069	0.201	0.423	0.522	0.228	0.522	0.038	0.270	0.629
5G N5	Ant.0	Front Side 15mm	0.086	0.181	0.217	0.222	0.121	0.222	0.041	0.266	0.349
	Ant.0	Top Edge 15mm	0.123	0.201	0.423	0.522	0.228	0.522	0.038	0.324	0.683
5G N5	Ant.1	Front Side 15mm	0.154	0.181	0.217	0.222	0.121	0.222	0.041	0.334	0.417
	Ant.1	Top Edge 15mm	0.196	0.201	0.423	0.522	0.228	0.522	0.038	0.397	0.756
5G N7	Ant.0	Front Side 15mm	0.057	0.181	0.217	0.222	0.121	0.222	0.041	0.237	0.320
	Ant.0	Top Edge 15mm	0.098	0.201	0.423	0.522	0.228	0.522	0.038	0.298	0.658
5G N7	Ant.1	Front Side 15mm	0.116	0.181	0.217	0.222	0.121	0.222	0.041	0.297	0.380
	Ant.1	Top Edge 15mm	0.220	0.201	0.423	0.522	0.228	0.522	0.038	0.421	0.780
5G N38	Ant.0	Front Side 15mm	0.214	0.181	0.217	0.222	0.121	0.222	0.041	0.394	0.477
	Ant.0	Top Edge 15mm	0.429	0.201	0.423	0.522	0.228	0.522	0.038	0.629	**0.989**
5G N38	Ant.1	Front Side 15mm	0.205	0.181	0.217	0.222	0.121	0.222	0.041	0.386	0.469
	Ant.1	Top Edge 15mm	0.352	0.201	0.423	0.522	0.228	0.522	0.038	0.552	0.912
5G N41	Ant.0	Front Side 15mm	0.169	0.181	0.217	0.222	0.121	0.222	0.041	0.350	0.433
	Ant.0	Top Edge 15mm	0.357	0.201	0.423	0.522	0.228	0.522	0.038	0.557	0.917
5G N41	Ant.1	Front Side 15mm	0.088	0.181	0.217	0.222	0.121	0.222	0.041	0.269	0.352
	Ant.1	Top Edge 15mm	0.176	0.201	0.423	0.522	0.228	0.522	0.038	0.377	0.736

Note:

1: The simultaneous transmission combinations of the three antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 1g SAR is 0.989 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

12.2.3 Hotspot Simultaneous Transmission SAR Evaluation for WWAN Antenna with WLAN and Bluetooth

Band	Antenna	Position	Stand alone SAR						SUM SAR	
			1	2	3		3	4		
			WWAN	2.4GWIFI	5.2GWIFI	5.8GWIFI	MAX. 5GWIFI	Bluetooth	Sum SAR (1+2)	Sum SAR (1+3+4)
GSM850	Ant.1	Front Side 10mm	0.298	0.233	0.429	0.191	0.429	0.064	0.531	0.792
	Ant.1	Back Side 10mm	0.355	0.292	0.646	0.420	0.646	0.064	0.647	1.065
	Ant.1	Right Edge 10mm	0.113	0.051	0.058	0.049	0.058	0.027	0.163	0.197
	Ant.1	Top Edge 10mm	0.244	0.338	0.514	0.282	0.514	0.082	0.582	0.839
GSM850	Ant.0	Front Side 10mm	0.240	0.233	0.429	0.191	0.429	0.064	0.473	0.733
	Ant.0	Back Side 10mm	0.396	0.292	0.646	0.420	0.646	0.064	0.688	1.106
	Ant.0	Left Edge 10mm	0.125	0.225	0.581	0.302	0.581	0.047	0.350	0.754
	Ant.0	Right Edge 10mm	0.209	0.051	0.058	0.049	0.058	0.027	0.260	0.293
	Ant.0	Bottom Edge 10mm	0.304	0.033	0.035	0.027	0.035	0.021	0.338	0.361
GSM1900	Ant.1	Front Side 10mm	0.139	0.233	0.429	0.191	0.429	0.064	0.372	0.632
	Ant.1	Back Side 10mm	0.163	0.292	0.646	0.420	0.646	0.064	0.454	0.873
	Ant.1	Right Edge 10mm	0.000	0.051	0.058	0.049	0.058	0.027	0.051	0.084
	Ant.1	Top Edge 10mm	0.298	0.338	0.514	0.282	0.514	0.082	0.637	0.894
GSM1900	Ant.0	Front Side 10mm	0.175	0.233	0.429	0.191	0.429	0.064	0.408	0.668
	Ant.0	Back Side 10mm	0.298	0.292	0.646	0.420	0.646	0.064	0.589	1.008
	Ant.0	Left Edge 10mm	0.069	0.225	0.581	0.302	0.581	0.047	0.294	0.698
	Ant.0	Right Edge 10mm	0.000	0.051	0.058	0.049	0.058	0.027	0.051	0.084
	Ant.0	Bottom Edge 10mm	0.447	0.033	0.035	0.027	0.035	0.021	0.481	0.504
WCDMA B2	Ant.1	Front Side 10mm	0.240	0.233	0.429	0.191	0.429	0.064	0.473	0.733
	Ant.1	Back Side 10mm	0.310	0.292	0.646	0.420	0.646	0.064	0.602	1.020
	Ant.1	Right Edge 10mm	0.041	0.051	0.058	0.049	0.058	0.027	0.091	0.125
	Ant.1	Top Edge 10mm	0.547	0.338	0.514	0.282	0.514	0.082	0.886	1.143
WCDMA B2	Ant.0	Front Side 10mm	0.167	0.233	0.429	0.191	0.429	0.064	0.400	0.661
	Ant.0	Back Side 10mm	0.283	0.292	0.646	0.420	0.646	0.064	0.574	0.993
	Ant.0	Left Edge 10mm	0.070	0.225	0.581	0.302	0.581	0.047	0.294	0.699
	Ant.0	Right Edge 10mm	0.027	0.051	0.058	0.049	0.058	0.027	0.077	0.111
	Ant.0	Bottom Edge 10mm	0.466	0.033	0.035	0.027	0.035	0.021	0.500	0.523
WCDMA B4	Ant.1	Front Side 10mm	0.204	0.233	0.429	0.191	0.429	0.064	0.437	0.697
	Ant.1	Back Side 10mm	0.201	0.292	0.646	0.420	0.646	0.064	0.492	0.911
	Ant.1	Right Edge 10mm	0.036	0.051	0.058	0.049	0.058	0.027	0.087	0.121
	Ant.1	Top Edge 10mm	0.314	0.338	0.514	0.282	0.514	0.082	0.652	0.909
WCDMA B4	Ant.0	Front Side 10mm	0.129	0.233	0.429	0.191	0.429	0.064	0.362	0.622
	Ant.0	Back Side 10mm	0.212	0.292	0.646	0.420	0.646	0.064	0.503	0.922
	Ant.0	Left Edge 10mm	0.043	0.225	0.581	0.302	0.581	0.047	0.267	0.671
	Ant.0	Right Edge 10mm	0.018	0.051	0.058	0.049	0.058	0.027	0.069	0.103
	Ant.0	Bottom Edge 10mm	0.287	0.033	0.035	0.027	0.035	0.021	0.320	0.343
WCDMA B5	Ant.1	Front Side 10mm	0.174	0.233	0.429	0.191	0.429	0.064	0.406	0.667
	Ant.1	Back Side 10mm	0.197	0.292	0.646	0.420	0.646	0.064	0.489	0.907
	Ant.1	Right Edge 10mm	0.093	0.051	0.058	0.049	0.058	0.027	0.144	0.178

	Ant.1	Top Edge 10mm	0.151	0.338	0.514	0.282	0.514	0.082	0.490	0.747
WCDMA B5	Ant.0	Front Side 10mm	0.077	0.233	0.429	0.191	0.429	0.064	0.310	0.570
	Ant.0	Back Side 10mm	0.147	0.292	0.646	0.420	0.646	0.064	0.439	0.857
	Ant.0	Left Edge 10mm	0.020	0.225	0.581	0.302	0.581	0.047	0.244	0.648
	Ant.0	Right Edge 10mm	0.073	0.051	0.058	0.049	0.058	0.027	0.124	0.157
	Ant.0	Bottom Edge 10mm	0.090	0.033	0.035	0.027	0.035	0.021	0.123	0.146
LTE B2	Ant.1	Front Side 10mm	0.311	0.233	0.429	0.191	0.429	0.064	0.544	0.804
	Ant.1	Back Side 10mm	0.385	0.292	0.646	0.420	0.646	0.064	0.676	1.095
	Ant.1	Right Edge 10mm	0.057	0.051	0.058	0.049	0.058	0.027	0.108	0.142
	Ant.1	Top Edge 10mm	0.691	0.338	0.514	0.282	0.514	0.082	1.029	1.286
LTE B2	Ant.0	Front Side 10mm	0.208	0.233	0.429	0.191	0.429	0.064	0.440	0.701
	Ant.0	Back Side 10mm	0.341	0.292	0.646	0.420	0.646	0.064	0.632	1.051
	Ant.0	Left Edge 10mm	0.094	0.225	0.581	0.302	0.581	0.047	0.319	0.723
	Ant.0	Right Edge 10mm	0.054	0.051	0.058	0.049	0.058	0.027	0.105	0.139
	Ant.0	Bottom Edge 10mm	0.583	0.033	0.035	0.027	0.035	0.021	0.617	0.640
LTE B4	Ant.1	Front Side 10mm	0.296	0.233	0.429	0.191	0.429	0.064	0.529	0.790
	Ant.1	Back Side 10mm	0.294	0.292	0.646	0.420	0.646	0.064	0.586	1.004
	Ant.1	Right Edge 10mm	0.048	0.051	0.058	0.049	0.058	0.027	0.099	0.133
	Ant.1	Top Edge 10mm	0.463	0.338	0.514	0.282	0.514	0.082	0.801	1.059
LTE B4	Ant.0	Front Side 10mm	0.167	0.233	0.429	0.191	0.429	0.064	0.400	0.660
	Ant.0	Back Side 10mm	0.268	0.292	0.646	0.420	0.646	0.064	0.560	0.978
	Ant.0	Left Edge 10mm	0.060	0.225	0.581	0.302	0.581	0.047	0.284	0.688
	Ant.0	Right Edge 10mm	0.030	0.051	0.058	0.049	0.058	0.027	0.080	0.114
	Ant.0	Bottom Edge 10mm	0.403	0.033	0.035	0.027	0.035	0.021	0.436	0.459
LTE B5	Ant.1	Front Side 10mm	0.276	0.233	0.429	0.191	0.429	0.064	0.509	0.770
	Ant.1	Back Side 10mm	0.325	0.292	0.646	0.420	0.646	0.064	0.616	1.035
	Ant.1	Right Edge 10mm	0.165	0.051	0.058	0.049	0.058	0.027	0.216	0.249
	Ant.1	Top Edge 10mm	0.195	0.338	0.514	0.282	0.514	0.082	0.533	0.791
LTE B5	Ant.0	Front Side 10mm	0.172	0.233	0.429	0.191	0.429	0.064	0.404	0.665
	Ant.0	Back Side 10mm	0.238	0.292	0.646	0.420	0.646	0.064	0.530	0.948
	Ant.0	Left Edge 10mm	0.127	0.225	0.581	0.302	0.581	0.047	0.352	0.756
	Ant.0	Right Edge 10mm	0.200	0.051	0.058	0.049	0.058	0.027	0.251	0.285
	Ant.0	Bottom Edge 10mm	0.200	0.033	0.035	0.027	0.035	0.021	0.234	0.256
LTE B7	Ant.1	Front Side 10mm	0.127	0.233	0.429	0.191	0.429	0.064	0.360	0.620
	Ant.1	Back Side 10mm	0.284	0.292	0.646	0.420	0.646	0.064	0.575	0.994
	Ant.1	Right Edge 10mm	0.095	0.051	0.058	0.049	0.058	0.027	0.146	0.180
	Ant.1	Top Edge 10mm	0.331	0.338	0.514	0.282	0.514	0.082	0.669	0.926
LTE B7	Ant.0	Front Side 10mm	0.124	0.233	0.429	0.191	0.429	0.064	0.356	0.617
	Ant.0	Back Side 10mm	0.157	0.292	0.646	0.420	0.646	0.064	0.449	0.867
	Ant.0	Left Edge 10mm	0.062	0.225	0.581	0.302	0.581	0.047	0.287	0.691
	Ant.0	Right Edge 10mm	0.018	0.051	0.058	0.049	0.058	0.027	0.069	0.103
	Ant.0	Bottom Edge 10mm	0.099	0.033	0.035	0.027	0.035	0.021	0.132	0.155
LTE B12	Ant.1	Front Side 10mm	0.180	0.233	0.429	0.191	0.429	0.064	0.413	0.673
	Ant.1	Back Side 10mm	0.217	0.292	0.646	0.420	0.646	0.064	0.509	0.927
	Ant.1	Right Edge 10mm	0.208	0.051	0.058	0.049	0.058	0.027	0.259	0.293

	Ant.1	Top Edge 10mm	0.085	0.338	0.514	0.282	0.514	0.082	0.423	0.680
LTE B12	Ant.0	Front Side 10mm	0.157	0.233	0.429	0.191	0.429	0.064	0.389	0.650
	Ant.0	Back Side 10mm	0.186	0.292	0.646	0.420	0.646	0.064	0.478	0.896
	Ant.0	Left Edge 10mm	0.151	0.225	0.581	0.302	0.581	0.047	0.376	0.780
	Ant.0	Right Edge 10mm	0.184	0.051	0.058	0.049	0.058	0.027	0.235	0.268
	Ant.0	Bottom Edge 10mm	0.074	0.033	0.035	0.027	0.035	0.021	0.108	0.130
LTE B26	Ant.1	Front Side 10mm	0.279	0.233	0.429	0.191	0.429	0.064	0.512	0.773
	Ant.1	Back Side 10mm	0.310	0.292	0.646	0.420	0.646	0.064	0.601	1.020
	Ant.1	Right Edge 10mm	0.171	0.051	0.058	0.049	0.058	0.027	0.222	0.255
	Ant.1	Top Edge 10mm	0.204	0.338	0.514	0.282	0.514	0.082	0.542	0.799
LTE B26	Ant.0	Front Side 10mm	0.192	0.233	0.429	0.191	0.429	0.064	0.425	0.685
	Ant.0	Back Side 10mm	0.237	0.292	0.646	0.420	0.646	0.064	0.529	0.947
	Ant.0	Left Edge 10mm	0.148	0.225	0.581	0.302	0.581	0.047	0.373	0.777
	Ant.0	Right Edge 10mm	0.238	0.051	0.058	0.049	0.058	0.027	0.289	0.323
	Ant.0	Bottom Edge 10mm	0.253	0.033	0.035	0.027	0.035	0.021	0.286	0.309
LTE B66	Ant.1	Front Side 10mm	0.265	0.233	0.429	0.191	0.429	0.064	0.498	0.758
	Ant.1	Back Side 10mm	0.265	0.292	0.646	0.420	0.646	0.064	0.556	0.975
	Ant.1	Right Edge 10mm	0.058	0.051	0.058	0.049	0.058	0.027	0.109	0.143
	Ant.1	Top Edge 10mm	0.431	0.338	0.514	0.282	0.514	0.082	0.769	1.026
LTE B66	Ant.0	Front Side 10mm	0.140	0.233	0.429	0.191	0.429	0.064	0.372	0.633
	Ant.0	Back Side 10mm	0.263	0.292	0.646	0.420	0.646	0.064	0.554	0.973
	Ant.0	Left Edge 10mm	0.050	0.225	0.581	0.302	0.581	0.047	0.274	0.679
	Ant.0	Right Edge 10mm	0.030	0.051	0.058	0.049	0.058	0.027	0.080	0.114
	Ant.0	Bottom Edge 10mm	0.396	0.033	0.035	0.027	0.035	0.021	0.430	0.452
LTE B38	Ant.1	Front Side 10mm	0.051	0.233	0.429	0.191	0.429	0.064	0.283	0.544
	Ant.1	Back Side 10mm	0.103	0.292	0.646	0.420	0.646	0.064	0.395	0.813
	Ant.1	Right Edge 10mm	0.052	0.051	0.058	0.049	0.058	0.027	0.103	0.136
	Ant.1	Top Edge 10mm	0.112	0.338	0.514	0.282	0.514	0.082	0.450	0.707
LTE B38	Ant.0	Front Side 10mm	0.094	0.233	0.429	0.191	0.429	0.064	0.327	0.588
	Ant.0	Back Side 10mm	0.120	0.292	0.646	0.420	0.646	0.064	0.412	0.830
	Ant.0	Left Edge 10mm	0.059	0.225	0.581	0.302	0.581	0.047	0.283	0.687
	Ant.0	Right Edge 10mm	0.032	0.051	0.058	0.049	0.058	0.027	0.083	0.117
	Ant.0	Bottom Edge 10mm	0.082	0.033	0.035	0.027	0.035	0.021	0.116	0.139
LTE B41	Ant.1	Front Side 10mm	0.028	0.233	0.429	0.191	0.429	0.064	0.261	0.521
	Ant.1	Back Side 10mm	0.083	0.292	0.646	0.420	0.646	0.064	0.374	0.793
	Ant.1	Right Edge 10mm	0.037	0.051	0.058	0.049	0.058	0.027	0.088	0.121
	Ant.1	Top Edge 10mm	0.109	0.338	0.514	0.282	0.514	0.082	0.447	0.704
LTE B41	Ant.0	Front Side 10mm	0.067	0.233	0.429	0.191	0.429	0.064	0.300	0.560
	Ant.0	Back Side 10mm	0.100	0.292	0.646	0.420	0.646	0.064	0.391	0.810
	Ant.0	Left Edge 10mm	0.032	0.225	0.581	0.302	0.581	0.047	0.257	0.661
	Ant.0	Right Edge 10mm	0.043	0.051	0.058	0.049	0.058	0.027	0.094	0.128
	Ant.0	Bottom Edge 10mm	0.085	0.033	0.035	0.027	0.035	0.021	0.119	0.142
5G N5	Ant.0	Front Side 10mm	0.108	0.233	0.429	0.191	0.429	0.064	0.340	0.601
	Ant.0	Back Side 10mm	0.263	0.292	0.646	0.420	0.646	0.064	0.554	0.973
	Ant.0	Left Edge 10mm	0.048	0.051	0.058	0.049	0.058	0.027	0.098	0.132

	Ant.0	Right Edge 10mm	0.094	0.338	0.514	0.282	0.514	0.082	0.432	0.690
	Ant.0	Bottom Edge 10mm	0.177	0.233	0.429	0.191	0.429	0.064	0.410	0.670
5G N5	Ant.1	Front Side 10mm	0.214	0.292	0.646	0.420	0.646	0.064	0.506	0.924
	Ant.1	Back Side 10mm	0.273	0.225	0.581	0.302	0.581	0.047	0.498	0.902
	Ant.1	Right Edge 10mm	0.171	0.051	0.058	0.049	0.058	0.027	0.222	0.255
	Ant.1	Top Edge 10mm	0.211	0.033	0.035	0.027	0.035	0.021	0.245	0.267
5G N7	Ant.0	Front Side 10mm	0.054	0.233	0.429	0.191	0.429	0.064	0.286	0.547
	Ant.0	Back Side 10mm	0.116	0.292	0.646	0.420	0.646	0.064	0.408	0.826
	Ant.0	Left Edge 10mm	0.038	0.051	0.058	0.049	0.058	0.027	0.089	0.122
	Ant.0	Right Edge 10mm	0.029	0.338	0.514	0.282	0.514	0.082	0.367	0.625
	Ant.0	Bottom Edge 10mm	0.108	0.233	0.429	0.191	0.429	0.064	0.340	0.601
5G N7	Ant.1	Front Side 10mm	0.246	0.292	0.646	0.420	0.646	0.064	0.537	0.956
	Ant.1	Back Side 10mm	0.487	0.225	0.581	0.302	0.581	0.047	0.712	1.116
	Ant.1	Right Edge 10mm	0.212	0.051	0.058	0.049	0.058	0.027	0.263	0.297
	Ant.1	Top Edge 10mm	0.898	0.033	0.035	0.027	0.035	0.021	0.931	0.954
5G N38	Ant.0	Front Side 10mm	0.265	0.233	0.429	0.191	0.429	0.064	0.498	0.758
	Ant.0	Back Side 10mm	0.518	0.292	0.646	0.420	0.646	0.064	0.809	1.228
	Ant.0	Left Edge 10mm	0.440	0.051	0.058	0.049	0.058	0.027	0.491	0.524
	Ant.0	Right Edge 10mm	0.266	0.338	0.514	0.282	0.514	0.082	0.604	0.861
	Ant.0	Bottom Edge 10mm	0.375	0.233	0.429	0.191	0.429	0.064	0.608	0.869
5G N38	Ant.1	Front Side 10mm	0.288	0.292	0.646	0.420	0.646	0.064	0.580	0.998
	Ant.1	Back Side 10mm	0.670	0.225	0.581	0.302	0.581	0.047	0.895	**1.299**
	Ant.1	Right Edge 10mm	0.300	0.051	0.058	0.049	0.058	0.027	0.351	0.385
	Ant.1	Top Edge 10mm	0.500	0.033	0.035	0.027	0.035	0.021	0.534	0.556
5G N41	Ant.0	Front Side 10mm	0.303	0.233	0.429	0.191	0.429	0.064	0.535	0.796
	Ant.0	Back Side 10mm	0.531	0.292	0.646	0.420	0.646	0.064	0.823	1.241
	Ant.0	Left Edge 10mm	0.287	0.051	0.058	0.049	0.058	0.027	0.337	0.371
	Ant.0	Right Edge 10mm	0.052	0.338	0.514	0.282	0.514	0.082	0.391	0.648
	Ant.0	Bottom Edge 10mm	0.460	0.233	0.429	0.191	0.429	0.064	0.693	0.954
5G N41	Ant.1	Front Side 10mm	0.174	0.292	0.646	0.420	0.646	0.064	0.466	0.884
	Ant.1	Back Side 10mm	0.356	0.225	0.581	0.302	0.581	0.047	0.580	0.984
	Ant.1	Right Edge 10mm	0.193	0.051	0.058	0.049	0.058	0.027	0.244	0.278
	Ant.1	Top Edge 10mm	0.836	0.033	0.035	0.027	0.035	0.021	0.869	0.892

Note:

1: The simultaneous transmission combinations of the three antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 1g SAR is 1.299 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

12.2.4 Specific Simultaneous Transmission SAR Evaluation for WWAN Antenna with WLAN and Bluetooth

Band	Antenna	Position	Stand alone SAR				SUM SAR
			1	2		2	
			WWAN	5.3GWIFI	5.6GWIFI	MAX.5GWIFI	Sum SAR (1+2)
GSM1900	Ant.1	Top Edge 0mm	1.498	1.148	1.259	1.259	2.757
WCDMA B2	Ant.1	Front Side 0mm	1.228	1.191	0.939	1.191	2.419
	Ant.1	Back Side 0mm	0.736	0.861	1.318	1.318	2.054
	Ant.1	Top Edge 0mm	1.614	1.148	1.259	1.259	2.873
WCDMA B2	Ant.0	Bottom Edge 0mm	1.497	0.050	0.055	0.055	1.552
WCDMA B4	Ant.1	Top Edge 0mm	0.802	1.148	1.259	1.259	2.060
WCDMA B4	Ant.0	Bottom Edge 0mm	1.281	0.050	0.055	0.055	1.335
LTE B2	Ant.1	Front Side 0mm	1.511	1.191	0.939	1.191	2.703
	Ant.1	Back Side 0mm	1.046	0.861	1.318	1.318	2.363
	Ant.1	Top Edge 0mm	1.921	1.148	1.259	1.259	**3.179**
LTE B2	Ant.0	Bottom Edge 0mm	1.786	0.050	0.055	0.055	1.840
LTE B4	Ant.1	Top Edge 0mm	1.037	1.148	1.259	1.259	2.295
LTE B4	Ant.0	Bottom Edge 0mm	1.546	0.050	0.055	0.055	1.601
LTE B66	Ant.1	Top Edge 0mm	0.978	1.148	1.259	1.259	2.237
LTE B66	Ant.0	Bottom Edge 0mm	1.638	0.050	0.055	0.055	1.693
5G N7	Ant.1	Back Side 0mm	1.105	0.861	1.318	1.318	2.422
	Ant.1	Top Edge 0mm	0.930	1.148	1.259	1.259	2.189
5G N38	Ant.1	Back Side 0mm	1.617	0.861	1.318	1.318	2.935
5G N41	Ant.1	Top Edge 0mm	0.831	1.148	1.259	1.259	2.090

Note:

1: The simultaneous transmission combinations of the three antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 10g SAR is 3.179 W/Kg < 4.0 W/kg, so Simultaneous Transmission SAR test is not required.

13 TEST EQUIPMENTS LIST

Description	Manufacturer	Model	Serial No./Version	Cal. Date	Cal. Due
PC	Dell	N/A	N/A	N/A	N/A
Test Software	Speag	DASY5	52.8.8.1222	N/A	N/A
Test Software	Speag	DASY4	V4.7 Build 80	N/A	N/A
750MHz Validation Dipole	Speag	D750V3	SN: 1055	2020/02/20	2022/02/18
835MHz Validation Dipole	Speag	D835V2	SN: 4d187	2019/06/11	2021/06/10
1750MHz Validation Dipole	Speag	D1750V2	SN: 1130	2018/09/13	2021/09/12
1900MHz Validation Dipole	Speag	D1900V2	SN: 5d193	2019/06/11	2021/06/10
2450MHz Validation Dipole	Speag	D2450V2	SN: 952	2019/06/10	2021/06/09
2600MHz Validation Dipole	Speag	D2600V2	SN: 1095	2018/11/5	2021/11/04
5GHz Validation Dipole	Speag	D5GHzV2	SN: 1200	2020/02/17	2022/02/15
E-Field Probe	Speag	EX3DV4	SN: 7510	2020/11/30	2021/11/29
E-Field Probe	Speag	EX3DV4	SN: 7607	2020/08/07	2021/08/06
Data Acquisition Electronics	Speag	DAE3	SN: 878	2020/09/30	2021/09/29
Data Acquisition Electronics	Speag	DAE3	SN: 1454	2020/11/06	2021/11/05
Signal Generator	R&S	SMB100A	177746	2020/06/08	2021/06/07
Power Meter	R&S	NRVD-B2	7250BJ-0112/2011	2020/09/25	2021/09/24
Power Sensor	R&S	NRV-Z4	100381	2020/09/25	2021/09/24
Power Sensor	R&S	NRV-Z2	100211	2020/09/25	2021/09/24
Wireless Communication Test Set	Agilent	8960-E5515C	MY47510286	2020/06/08	2021/06/07
Wireless Communication Test Set	R&S	CMW 500	104192	2020/06/08	2021/06/07
Network Analyzer	R&S	ZVL-6	101380	2020/06/22	2021/06/21
Thermometer	Elitech	RC-4HC	N/A	2020/09/29	2021/09/28
Power Amplifier	SATIMO	6552B	22374	N/A	N/A
Dielectric Probe Kit	SATIMO	SCLMP	SN 25/13 OCPG56	N/A	N/A
Phantom1(DASY5)	Speag	SAM	SN: 1859	N/A	N/A
Phantom2(DASY5)	Speag	SAM	SN: 1857	N/A	N/A
Phantom3(DASY4)	Speag	SAM	SN: 1392	N/A	N/A
Phantom4(DASY4)	Speag	SAM	SN: 1402	N/A	N/A
Attenuator	COM-MW	ZA-S1-31	1305003187	N/A	N/A
Directional coupler	AA-MCS	AAMCS-UDC	000272	N/A	N/A

Note: For dipole antennas, BALUN has adopted 3 years as calibration intervals, and on annual basis, every measurement dipole has been evaluated and is in compliance with the following criteria:

1. There is no physical damage on the dipole;
2. System validation with specific dipole is within 10% of calibrated value;
3. Return-loss in within 20% of calibrated measurement.
4. Impedance (real or imaginary parts) in within 5 Ohms of calibrated measurement.

ANNEX A SIMULATING LIQUID VERIFICATION RESULT

The dielectric parameters of the liquids were verified prior to the SAR evaluation using an SCLMP Dielectric Probe Kit.

Head Liquid

Date	Test System	Fre. (MHz)	Temp. (℃)	Meas. Conductivity (σ) (S/m)	Meas. Permittivity (ε)	Target Conductivity (σ) (S/m)	Target Permittivity (ε)	Conductivity Tolerance (%)	Permittivity Tolerance (%)
2021.03.04	DASY4	750	21.7	0.89	41.72	0.89	41.94	0.00	-0.52
2021.02.24	DASY4	835	21.5	0.91	41.83	0.90	41.50	1.11	0.80
2021.02.25	DASY4	835	21.6	0.89	41.80	0.90	41.50	-1.11	0.72
2021.02.26	DASY4	835	21.6	0.89	41.58	0.90	41.50	-1.11	0.19
2021.02.27	DASY4	835	21.3	0.88	41.45	0.90	41.50	-2.22	-0.12
2021.02.28	DASY4	835	21.4	0.89	41.57	0.90	41.50	-1.11	0.17
2021.03.01	DASY4	835	21.3	0.89	41.58	0.90	41.50	-1.11	0.19
2021.03.02	DASY4	835	21.6	0.88	41.37	0.90	41.50	-2.22	-0.31
2021.03.03	DASY4	835	21.6	0.89	41.50	0.90	41.50	-1.11	0.00
2021.03.05	DASY4	1750	21.4	1.38	40.27	1.37	40.08	0.73	0.47
2021.03.06	DASY4	1750	21.4	1.39	40.13	1.37	40.08	1.46	0.12
2021.03.07	DASY4	1750	21.4	1.38	40.25	1.37	40.08	0.73	0.42
2021.03.08	DASY4	1750	21.5	1.39	40.08	1.37	40.08	1.46	0.00
2021.03.09	DASY4	1750	21.5	1.38	40.20	1.37	40.08	0.73	0.30
2021.03.10	DASY4	1900	21.4	1.41	40.18	1.40	40.00	0.71	0.45
2021.03.11	DASY4	1900	21.3	1.41	40.20	1.40	40.00	0.71	0.50
2021.03.12	DASY4	1900	21.3	1.42	39.93	1.40	40.00	1.43	-0.18
2021.03.13	DASY4	1900	21.4	1.41	40.06	1.40	40.00	0.71	0.15
2021.03.01	DASY5	2450	21.6	1.78	39.03	1.80	39.20	-1.11	-0.43
2021.03.02	DASY4	2600	21.6	1.98	39.26	1.96	39.01	1.02	0.64
2021.03.03	DASY4	2600	21.6	1.98	39.16	1.96	39.01	1.02	0.38
2021.03.04	DASY5	2600	21.4	1.98	39.95	1.96	39.01	1.02	2.41
2021.03.05	DASY5	2600	21.5	1.97	39.08	1.96	39.01	0.51	0.18
2021.03.06	DASY5	2600	21.4	1.99	39.31	1.96	39.01	1.53	0.77
2021.03.08	DASY5	2600	21.3	1.95	38.30	1.96	39.01	-0.51	-1.82
2021.03.10	DASY5	2600	21.2	1.95	39.05	1.96	39.01	-0.51	0.10
2021.03.11	DASY5	2600	21.5	1.95	38.93	1.96	39.01	-0.51	-0.21
2021.03.12	DASY4	2600	21.5	1.96	38.63	1.96	39.01	0.00	-0.97
2021.03.13	DASY5	2600	21.6	1.95	38.75	1.96	39.01	-0.51	-0.67
2021.02.26	DASY5	5200	21.6	4.63	36.48	4.66	35.99	-0.64	1.36
2021.02.26	DASY5	5300	21.6	4.78	35.76	4.76	35.87	0.42	-0.31
2021.02.27	DASY5	5600	21.5	5.07	36.03	5.07	35.53	0.00	1.41
2021.02.28	DASY5	5800	21.6	5.25	35.42	5.27	35.30	-0.38	0.34
Note: The tolerance limit of Conductivity and Permittivity is± 5%.									

ANNEX B SYSTEM CHECK RESULT

Comparing to the original SAR value provided by SPEAG, the validation data should be within itsspecification of 10 %(for 1 g).

Head liquid 1g

Date	Test System	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)
2021.03.04	DASY4	750	100	0.841	8.41	8.55	-1.64
2021.02.24	DASY4	835	100	0.978	9.78	9.49	3.06
2021.02.25	DASY4	835	100	0.959	9.59	9.49	1.05
2021.02.26	DASY4	835	100	0.962	9.62	9.49	1.37
2021.02.27	DASY4	835	100	0.942	9.42	9.49	-0.74
2021.02.28	DASY4	835	100	0.977	9.77	9.49	2.95
2021.03.01	DASY4	835	100	0.983	9.83	9.49	3.58
2021.03.02	DASY4	835	100	0.975	9.75	9.49	2.74
2021.03.03	DASY4	835	100	0.944	9.44	9.49	-0.53
2021.03.05	DASY4	1750	100	3.710	37.10	36.80	0.82
2021.03.06	DASY4	1750	100	3.810	38.10	36.80	3.53
2021.03.07	DASY4	1750	100	3.730	37.30	36.80	1.36
2021.03.08	DASY4	1750	100	3.740	37.40	36.80	1.63
2021.03.09	DASY4	1750	100	3.750	37.50	36.80	1.90
2021.03.10	DASY4	1900	100	3.880	38.80	39.40	-1.52
2021.03.11	DASY4	1900	100	4.080	40.80	39.40	3.55
2021.03.12	DASY4	1900	100	4.060	40.60	39.40	3.05
2021.03.13	DASY4	1900	100	3.960	39.60	39.40	0.51
2021.03.01	DASY5	2450	100	5.560	55.60	52.60	5.70
2021.03.02	DASY4	2600	100	5.460	54.60	56.30	-3.02
2021.03.03	DASY4	2600	100	5.560	55.60	56.30	-1.24
2021.03.04	DASY5	2600	100	5.420	54.20	56.30	-3.73
2021.03.05	DASY5	2600	100	5.540	55.40	56.30	-1.60
2021.03.06	DASY5	2600	100	5.340	53.40	56.30	-5.15
2021.03.08	DASY5	2600	100	5.380	53.80	56.30	-4.44
2021.03.10	DASY5	2600	100	5.440	54.40	56.30	-3.37
2021.03.11	DASY5	2600	100	5.720	57.20	56.30	1.60
2021.03.12	DASY4	2600	100	5.410	54.10	56.30	-3.91
2021.03.13	DASY5	2600	100	5.540	55.40	56.30	-1.60
2021.02.26	DASY5	5200	100	7.520	75.20	73.90	1.76
2021.02.26	DASY5	5300	100	7.420	74.20	78.10	-4.99
2021.02.27	DASY5	5600	100	8.380	83.80	80.30	4.36
2021.02.28	DASY5	5800	100	7.880	78.80	76.90	2.47
Note: The tolerance limit of System validation ±10%.							

Head liquid 10g

Date	Test System	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)
2021.03.05	DASY4	1750	100	1.890	18.90	19.80	-4.55
2021.03.06	DASY4	1750	100	2.080	20.80	19.80	5.05
2021.03.08	DASY4	1750	100	2.020	20.20	19.80	2.02
2021.03.10	DASY4	1900	100	2.090	20.90	20.40	2.45
2021.03.11	DASY4	1900	100	2.130	21.30	20.40	4.41
2021.03.12	DASY4	1900	100	2.140	21.40	20.40	4.90
2021.03.04	DASY5	2600	100	2.440	24.40	25.10	-2.79
2021.03.06	DASY5	2600	100	2.340	23.40	25.10	-6.77
2021.03.12	DASY4	2600	100	2.440	24.40	25.10	-2.79
2021.02.26	DASY5	5300	100	2.080	20.80	22.20	-6.31
2021.02.27	DASY5	5600	100	2.260	22.60	22.60	0.00
Note: The tolerance limit of System validation ±10%.							

System Performance Check Data (750MHz)

Date: 2021.03.04

Communication System Band: D750 (750.0 MHz); Frequency: 750 MHz;Duty Cycle: 1:1

Medium parameters used (extrapolated): f = 750 MHz; σ = 0.894 S/m; ε_r = 41.719; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.7

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.31, 10.31, 10.31); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Left 1402; Serial: TP1402
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

CW 750 100mW/Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.858 W/kg

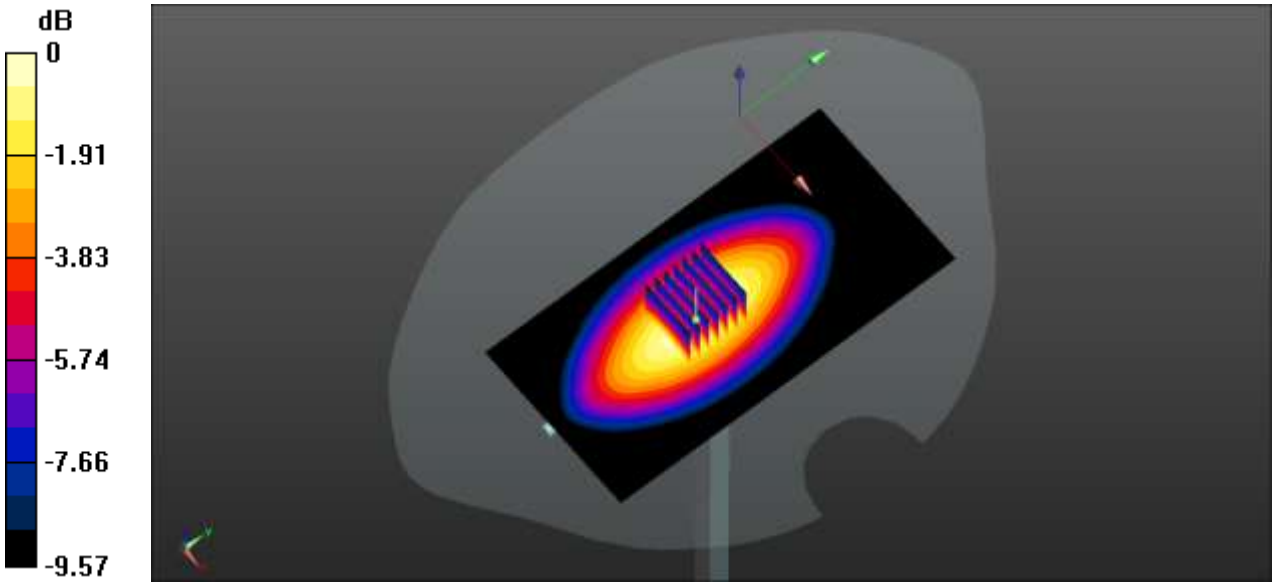
CW 750 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 28.52 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.841 W/kg; SAR(10 g) = 0.562 W/kg

Maximum value of SAR (measured) = 0.918 W/kg



0 dB = 0.918 W/kg

System Performance Check Data (835MHz)

Date: 2021.02.24

Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz;Duty Cycle: 1:1

Medium parameters used: f = 835 MHz; σ = 0.907 S/m; ε_r = 41.829; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.5

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.94, 9.94, 9.94); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Left 1402; Serial: TP1402
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

CW 835 100mW HEAD/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.02 W/kg

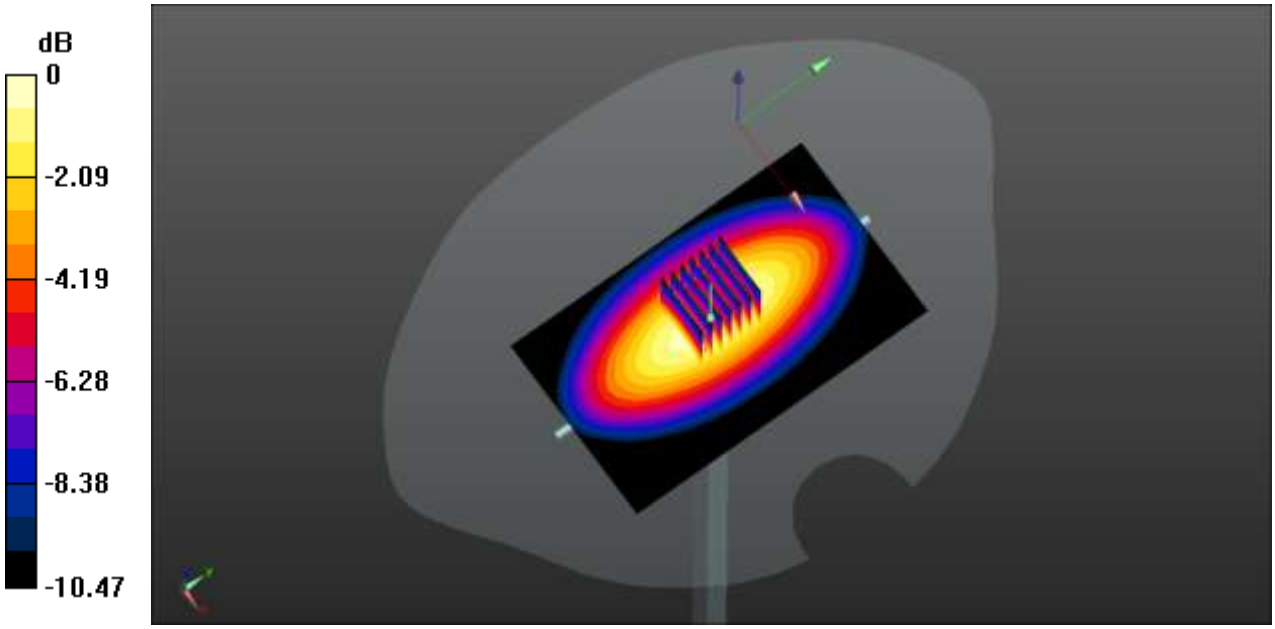
CW 835 100mW HEAD/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 33.18 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.41 W/kg

SAR(1 g) = 0.978 W/kg; SAR(10 g) = 0.641 W/kg

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



0 dB = 1.18 W/kg

System Performance Check Data (835MHz)

Date: 2021.02.25

Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz;Duty Cycle: 1:1

Medium parameters used: f = 835 MHz; σ = 0.891 S/m; ε_r = 41.804; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.8 Liquid Temperature:21.6

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.94, 9.94, 9.94); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Left 1402; Serial: TP1402
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

CW 835 100mW/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.992 W/kg

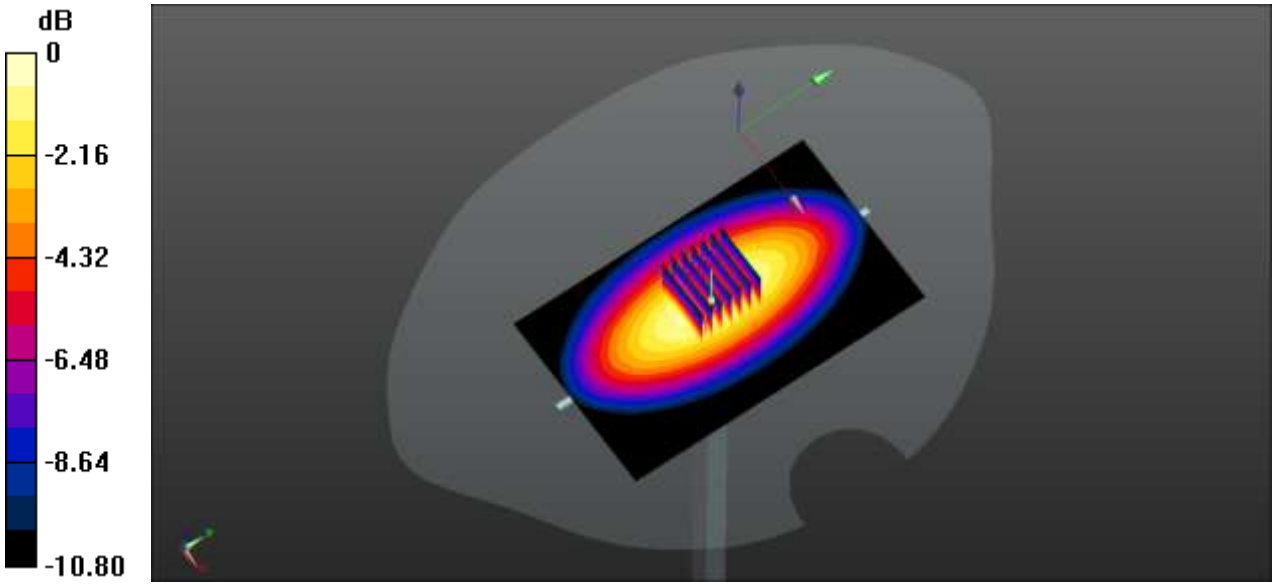
CW 835 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 34.58 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.44 W/kg

SAR(1 g) = 0.959 W/kg; SAR(10 g) = 0.614 W/kg

Maximum value of SAR (measured) = 1.03 W/kg



0 dB = 1.03 W/kg

System Performance Check Data (835MHz)

Date: 2021.02.26

Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz;Duty Cycle: 1:1

Medium parameters used: f = 835 MHz; σ = 0.888 S/m; ε_r = 41.584; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.8 Liquid Temperature:21.6

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.94, 9.94, 9.94); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Left 1402; Serial: TP1402
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

CW 835 100mW/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.981 W/kg

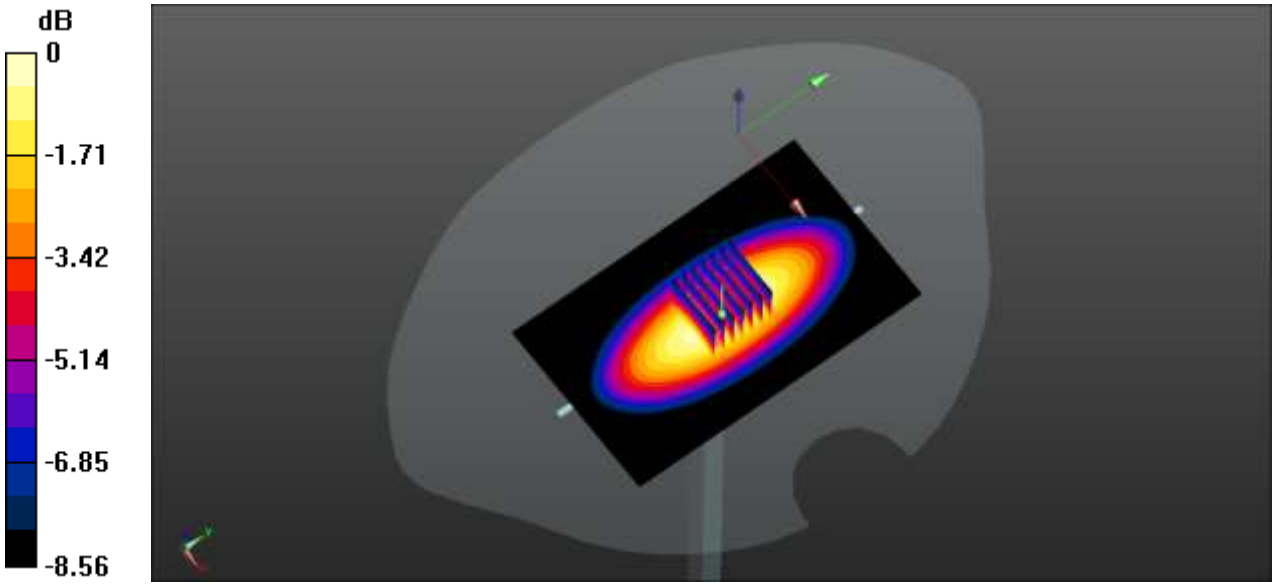
CW 835 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 31.06 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.962 W/kg; SAR(10 g) = 0.619 W/kg

Maximum value of SAR (measured) = 1.08 W/kg



0 dB = 1.08 W/kg

System Performance Check Data (835MHz)

Date: 2021.02.27

Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz;Duty Cycle: 1:1

Medium parameters used: f = 835 MHz; σ = 0.877 S/m; ε_r = 41.451; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.3

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.94, 9.94, 9.94); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Left 1402; Serial: TP1402
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

CW 835 100mW/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.990 W/kg

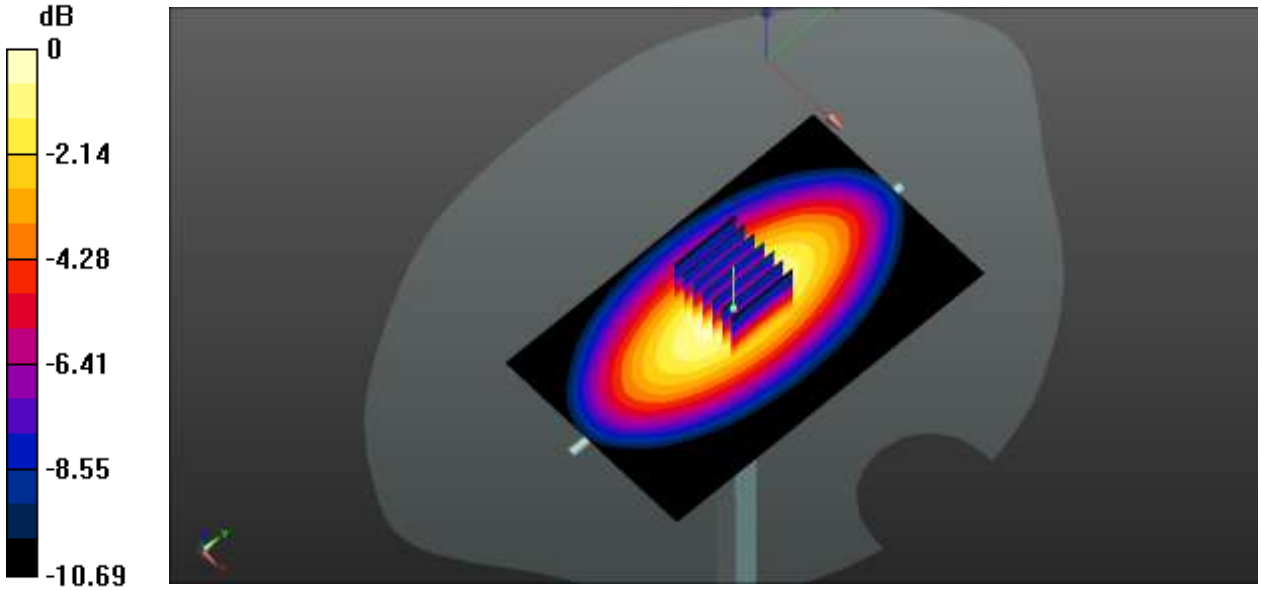
CW 835 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 34.63 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.44 W/kg

SAR(1 g) = 0.942 W/kg; SAR(10 g) = 0.612 W/kg

Maximum value of SAR (measured) = 0.984 W/kg



0 dB = 0.984 W/kg

System Performance Check Data (835MHz)

Date: 2021.02.28

Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz;Duty Cycle: 1:1

Medium parameters used: f = 835 MHz; σ = 0.891 S/m; ε_r = 41.567; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.4

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.94, 9.94, 9.94); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Left 1402; Serial: TP1402
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

CW 835 100mW/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.01 W/kg

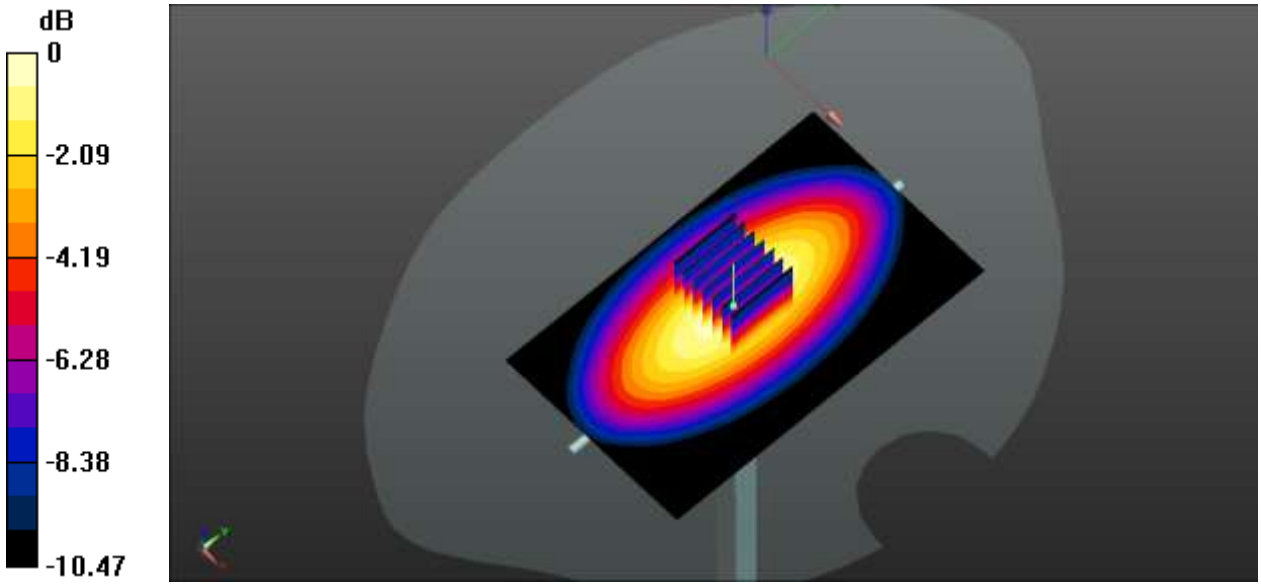
CW 835 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 33.15 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.40 W/kg

SAR(1 g) = 0.977 W/kg; SAR(10 g) = 0.635 W/kg

Maximum value of SAR (measured) = 1.15 W/kg



0 dB = 1.15 W/kg

System Performance Check Data (835MHz)

Date: 2021.03.01

Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz;Duty Cycle: 1:1

Medium parameters used: f = 835 MHz; σ = 0.893 S/m; ε_r = 41.579; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.2 Liquid Temperature:21.3

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.94, 9.94, 9.94); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Left 1402; Serial: TP1402
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

CW 835 100mW/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.04 W/kg

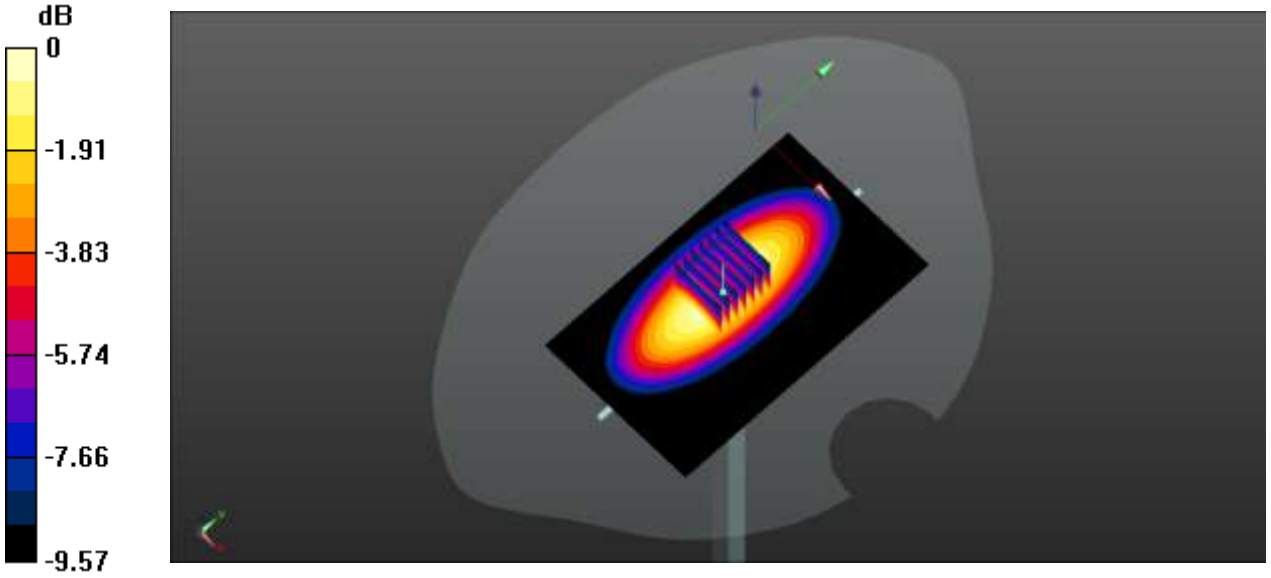
CW 835 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 32.35 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.983 W/kg; SAR(10 g) = 0.644 W/kg

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



0 dB = 1.18 W/kg

System Performance Check Data (835MHz)

Date: 2021.03.02

Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz;Duty Cycle: 1:1

Medium parameters used: f = 835 MHz; σ = 0.88 S/m; ε_r = 41.37; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.6

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.94, 9.94, 9.94); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Left 1402; Serial: TP1402
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

CW 835 100mW/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.08 W/kg

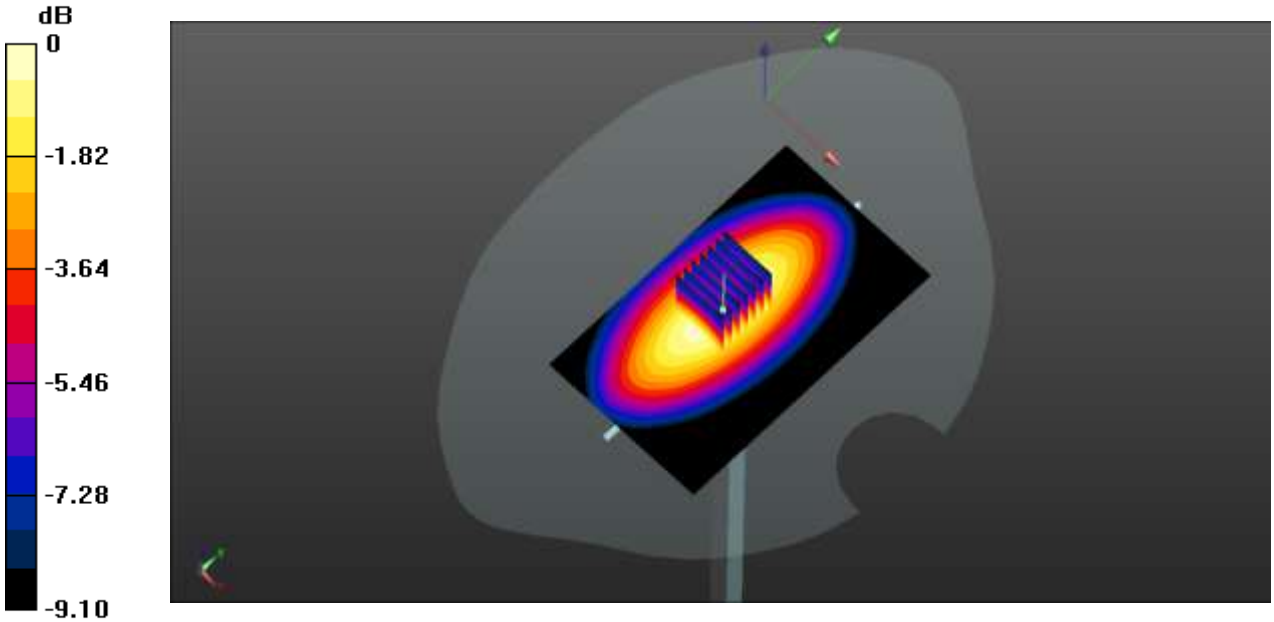
CW 835 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 32.74 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.975 W/kg; SAR(10 g) = 0.632 W/kg

Maximum value of SAR (measured) = 1.11 W/kg



0 dB = 1.11 W/kg

System Performance Check Data (835MHz)

Date: 2021.03.03

Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz;Duty Cycle: 1:1

Medium parameters used: f = 835 MHz; σ = 0.891 S/m; ε_r = 41.503; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.7 Liquid Temperature:21.6

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.94, 9.94, 9.94); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Left 1402; Serial: TP1402
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

CW 835 100mW/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.02 W/kg

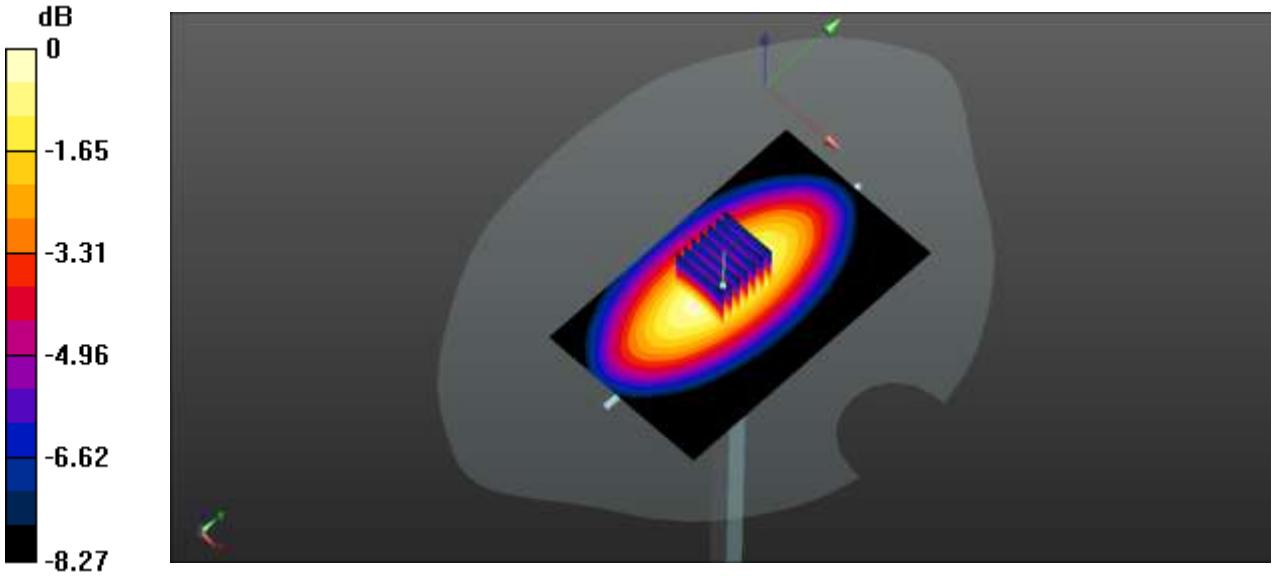
CW 835 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 32.41 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.944 W/kg; SAR(10 g) = 0.607 W/kg

Maximum value of SAR (measured) = 1.01 W/kg



0 dB = 1.01 W/kg

System Performance Check Data (1750MHz)

Date: 2021.03.05

Communication System Band: D1750 (1750.0 MHz); Frequency: 1750 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1750 MHz; σ = 1.379 S/m; ε_r = 40.271; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.4

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.6, 8.6, 8.6); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

CW 1750 100mw/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 4.03 W/kg

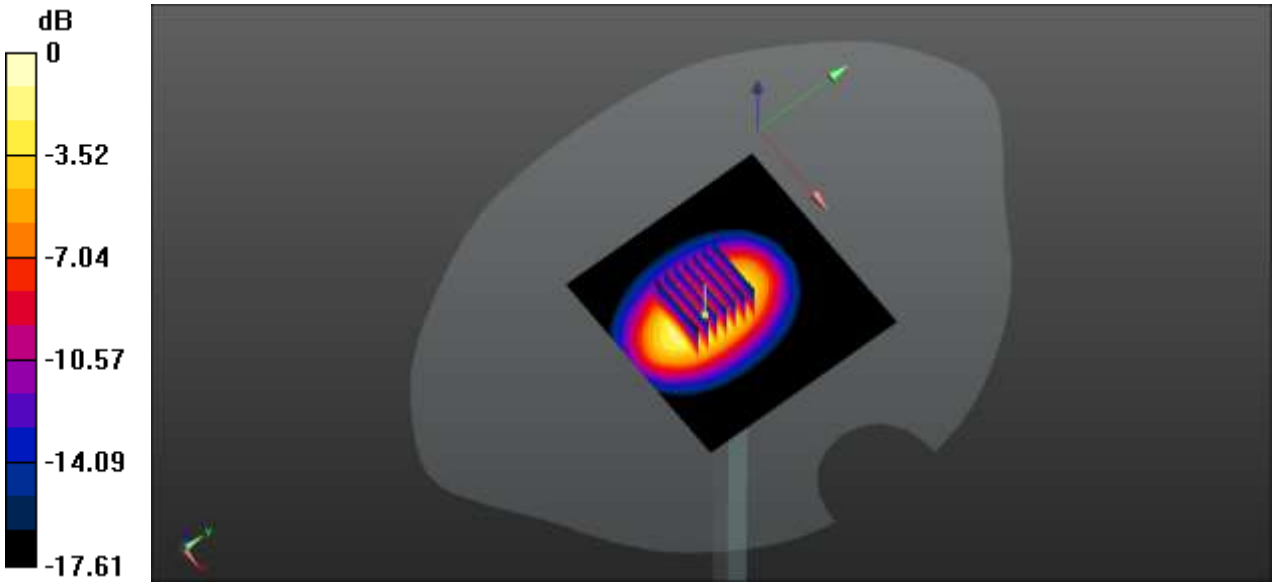
CW 1750 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 48.41 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 6.75 W/kg

SAR(1 g) = 3.71 W/kg; SAR(10 g) = 1.89 W/kg

Maximum value of SAR (measured) = 4.08 W/kg



0 dB = 4.08 W/kg

System Performance Check Data (1750MHz)

Date: 2021.03.06

Communication System Band: D1750 (1750.0 MHz); Frequency: 1750 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1750 MHz; σ = 1.386 S/m; ε_r = 40.125; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.7 Liquid Temperature:21.4

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.6, 8.6, 8.6); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

CW1750 100mW/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 4.37 W/kg

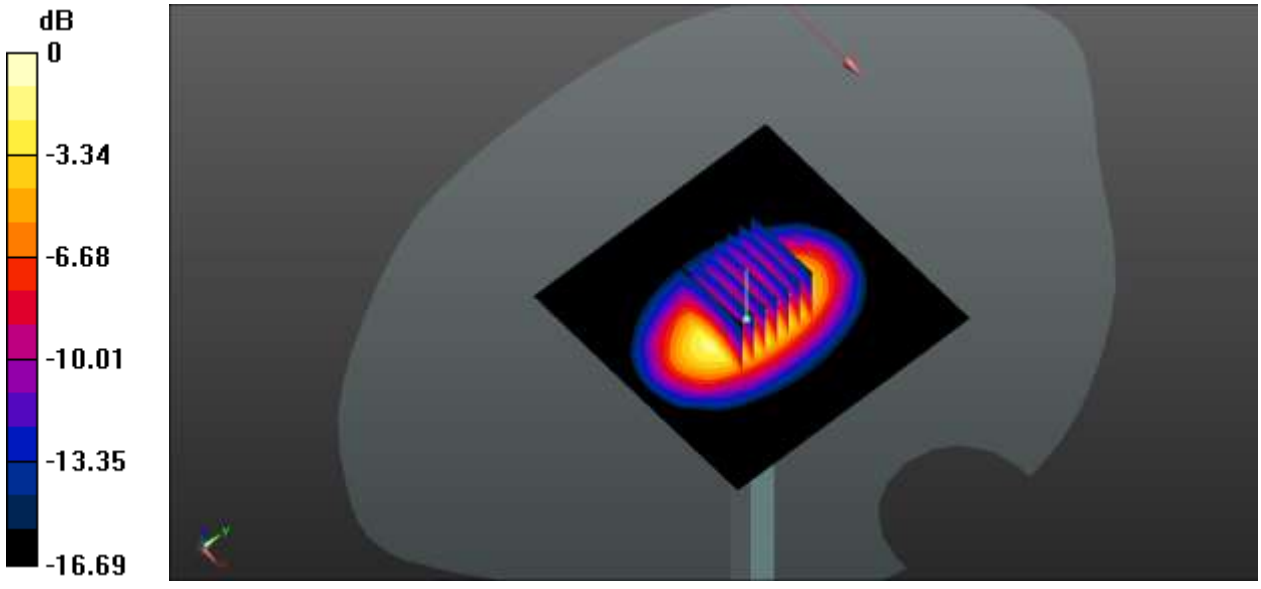
CW1750 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 54.81 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 7.04 W/kg

SAR(1 g) = 3.81 W/kg; SAR(10 g) = 2.08 W/kg

Maximum value of SAR (measured) = 4.25 W/kg



0 dB = 4.25 W/kg

System Performance Check Data (1750MHz)

Date: 2021.03.07

Communication System Band: D1750 (1750.0 MHz); Frequency: 1750 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1750 MHz; σ = 1.378 S/m; ε_r = 40.249; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.4

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.6, 8.6, 8.6); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

CW 1750 100mW/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 4.19 W/kg

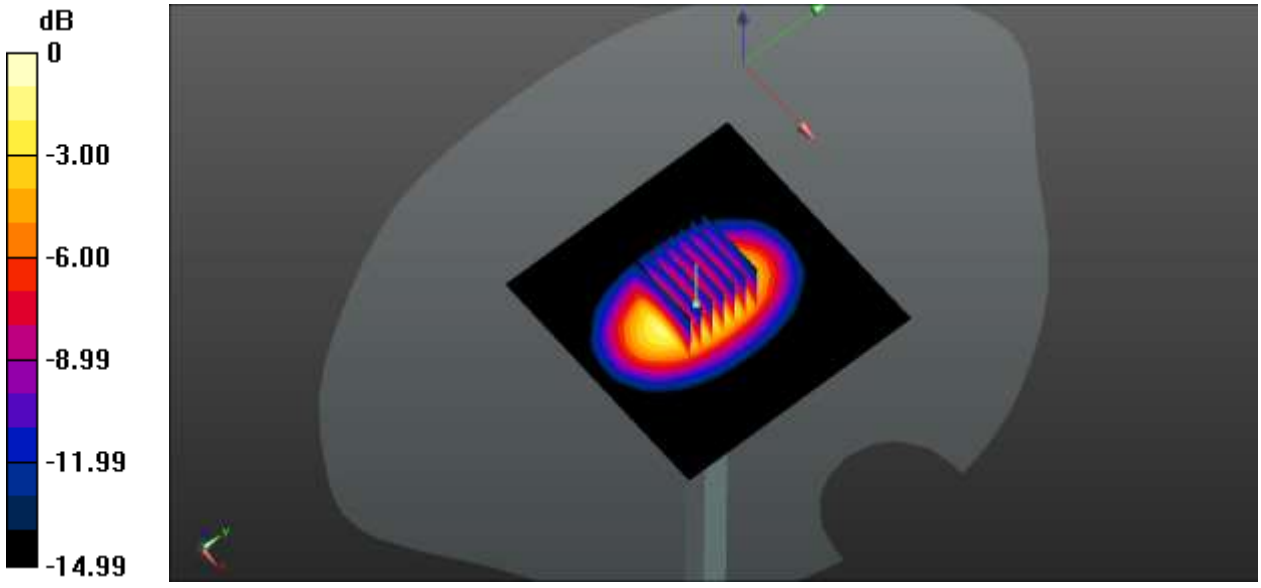
CW 1750 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 54.22 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 6.48 W/kg

SAR(1 g) = 3.73 W/kg; SAR(10 g) = 2.01 W/kg

Maximum value of SAR (measured) = 4.15 W/kg



0 dB = 4.15 W/kg

System Performance Check Data (1750MHz)

Date: 2021.03.08

Communication System Band: D1750 (1750.0 MHz); Frequency: 1750 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1750 MHz; σ = 1.388 S/m; ε_r = 40.078; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.5

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.6, 8.6, 8.6); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

CW1750 HEAD 100mw/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 4.18 W/kg

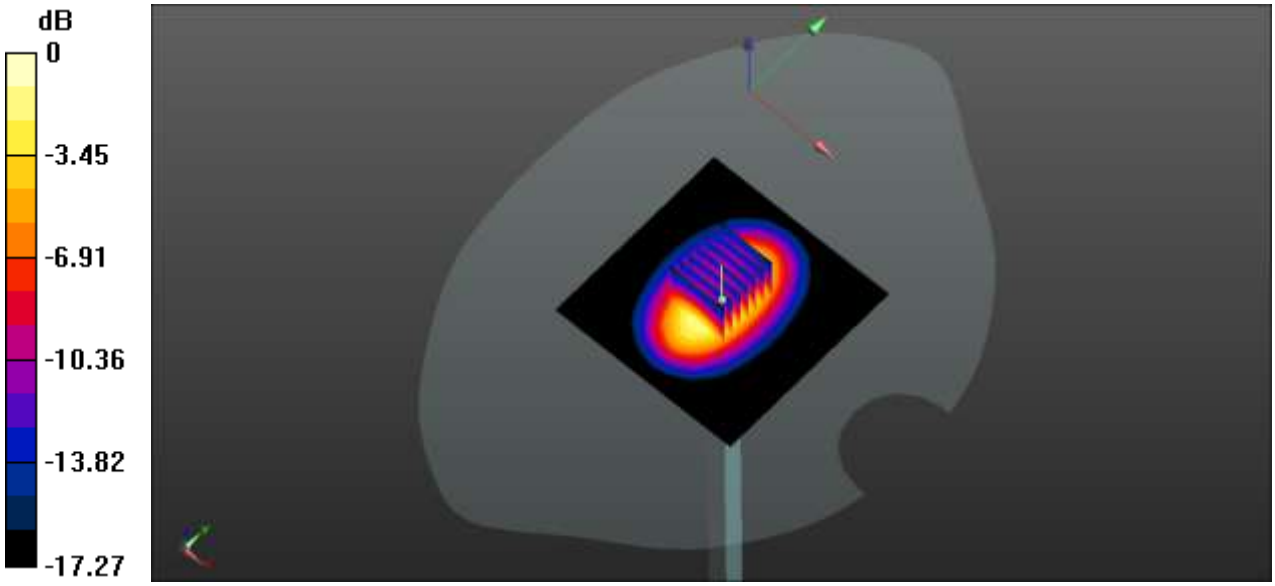
CW1750 HEAD 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 54.03 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 6.97 W/kg

SAR(1 g) = 3.74 W/kg; SAR(10 g) = 2.02 W/kg

Maximum value of SAR (measured) = 4.05 W/kg



0 dB = 4.05 W/kg

System Performance Check Data (1750MHz)

Date: 2021.03.09

Communication System Band: D1750 (1750.0 MHz); Frequency: 1750 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1750 MHz; σ = 1.381 S/m; ε_r = 40.196; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.5

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.6, 8.6, 8.6); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

CW 1750 100mw/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 3.92 W/kg

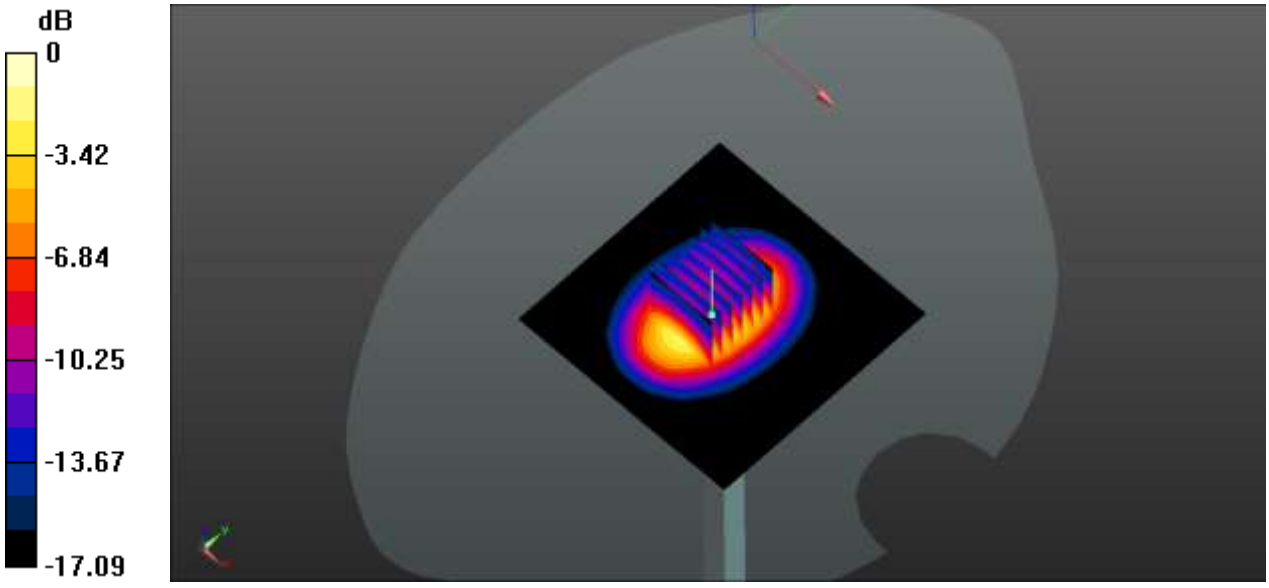
CW 1750 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 37.58 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 6.57 W/kg

SAR(1 g) = 3.75 W/kg; SAR(10 g) = 2.03 W/kg

Maximum value of SAR (measured) = 4.22 W/kg



0 dB = 4.22 W/kg

System Performance Check Data (1900MHz)

Date: 2021.03.10

Communication System Band: D1900 (1900.0 MHz); Frequency: 1900 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1900 MHz; σ = 1.411 S/m; ε_r = 40.176; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.4

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.3, 8.3, 8.3); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

CW 1900 100mW/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 4.65 W/kg

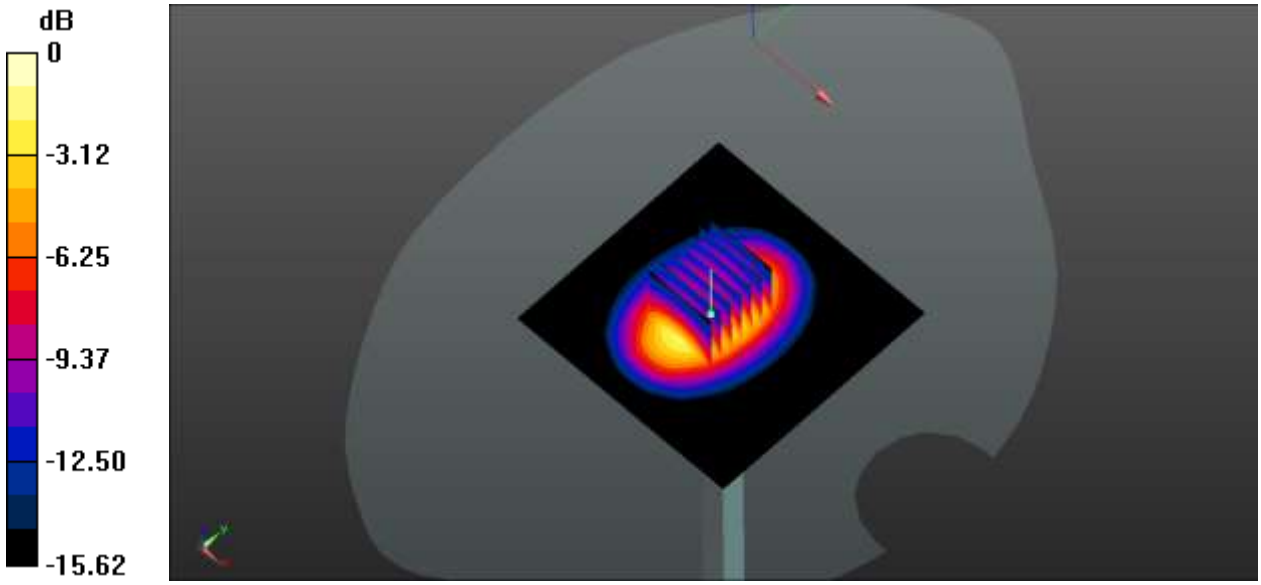
CW 1900 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 55.52 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 7.36 W/kg

SAR(1 g) = 3.88 W/kg; SAR(10 g) = 2.09 W/kg

Maximum value of SAR (measured) = 4.44 W/kg



0 dB = 4.44 W/kg

System Performance Check Data (1900MHz)

Date: 2021.03.11

Communication System Band: D1900 (1900.0 MHz); Frequency: 1900 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1900 MHz; σ = 1.408 S/m; ε_r = 40.202; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.3

DASY4 Configuration:

- Probe: Probe: EX3DV4 - SN7510; ConvF(8.3, 8.3, 8.3); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

CW 1900 100mW/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 4.54 W/kg

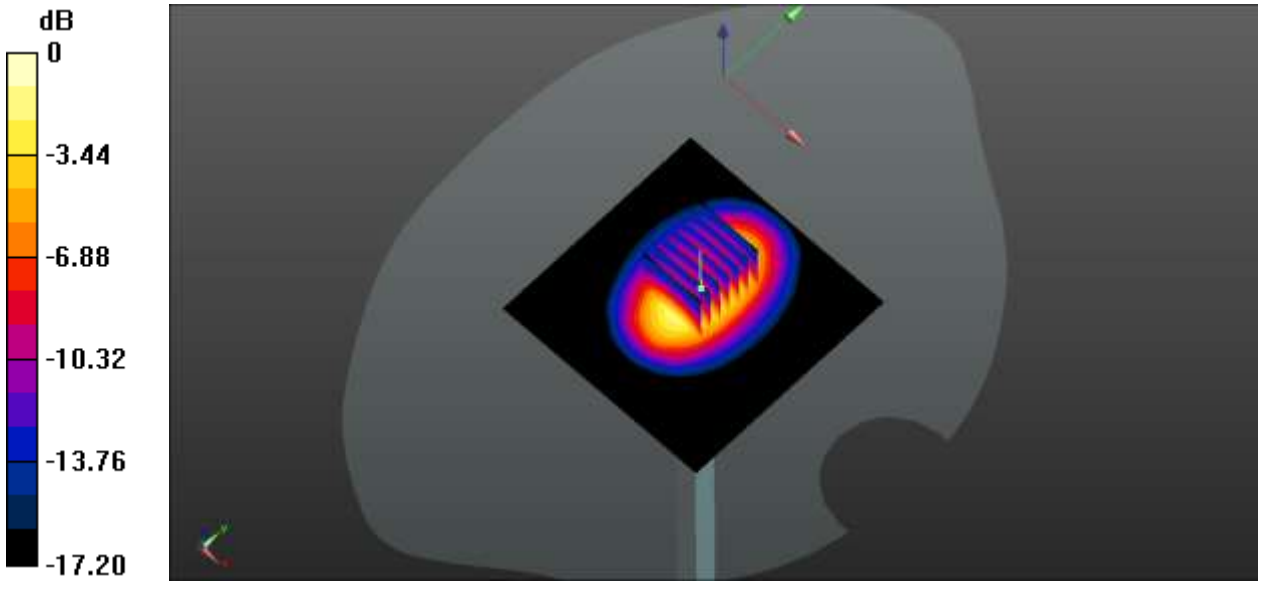
CW 1900 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 53.10 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 7.51 W/kg

SAR(1 g) = 4.08 W/kg; SAR(10 g) = 2.13 W/kg

Maximum value of SAR (measured) = 4.52 W/kg



0 dB = 4.52 W/kg

System Performance Check Data (1900MHz)

Date: 2021.03.12

Communication System Band: D1900 (1900.0 MHz); Frequency: 1900 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1900 MHz; σ = 1.419 S/m; ε_r = 39.931; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.3

DASY4 Configuration:

- Probe: Probe: EX3DV4 - SN7510; ConvF(8.3, 8.3, 8.3); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

CW1900 HEAD 100mw/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 4.37 W/kg

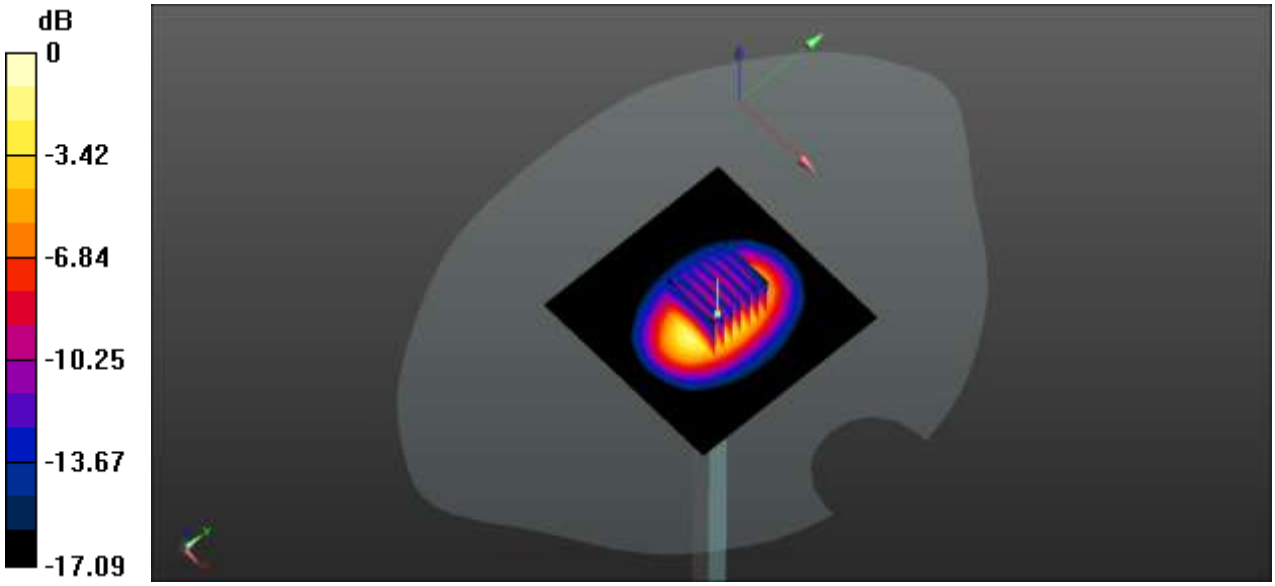
CW1900 HEAD 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 53.71 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 7.21 W/kg

SAR(1 g) = 4.06 W/kg; SAR(10 g) = 2.14 W/kg

Maximum value of SAR (measured) = 4.58 W/kg



0 dB = 4.58 W/kg

System Performance Check Data (1900MHz)

Date: 2021.03.13

Communication System Band: D1900 (1900.0 MHz); Frequency: 1900 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1900 MHz; σ = 1.411 S/m; ε_r = 40.055; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.7 Liquid Temperature:21.4

DASY4 Configuration:

- Probe: Probe: EX3DV4 - SN7510; ConvF(8.3, 8.3, 8.3); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

CW 1900 100mw/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 4.08 W/kg

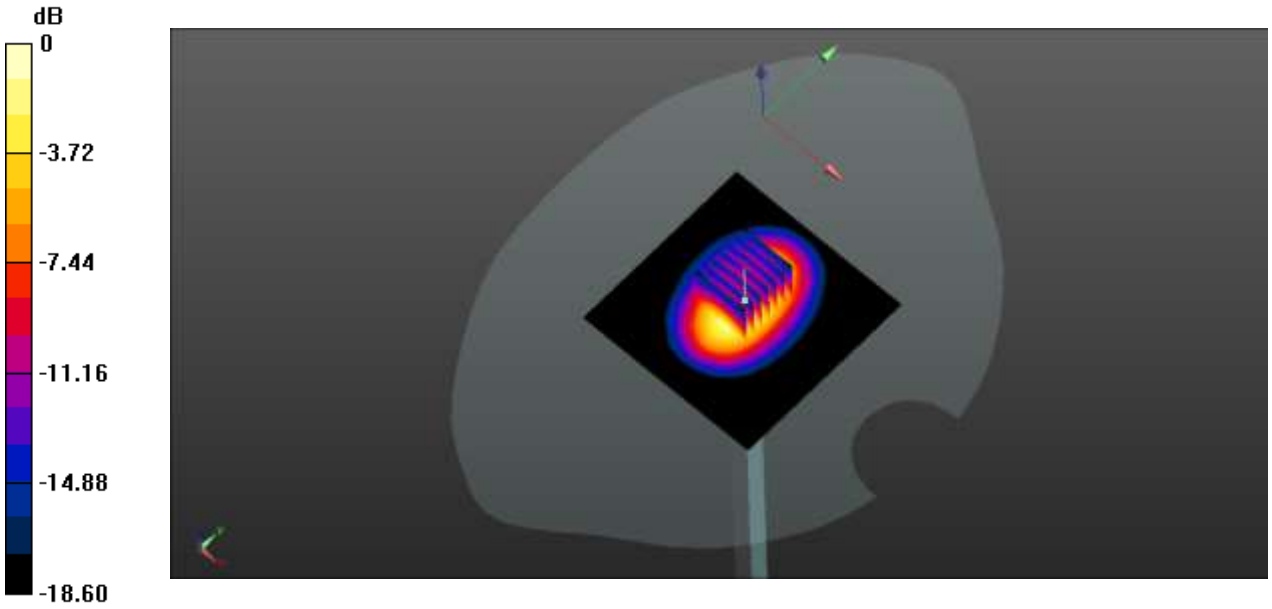
CW 1900 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 53.81 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 7.03 W/kg

SAR(1 g) = 3.96 W/kg; SAR(10 g) = 2.11 W/kg

Maximum value of SAR (measured) = 4.48 W/kg



0 dB = 4.48 W/kg

System Performance Check Data (2450MHz)

Date: 2021.03.01

Communication System Band: D2450 (2450.0 MHz); Frequency: 2450 MHz;Duty Cycle: 1:1

Medium parameters used: f = 2450 MHz; σ = 1.784 S/m; ε_r = 39.033; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.66, 7.66, 7.66); Calibrated: 2020.08.07;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331):

CW 2450 100mw/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 6.15 W/kg

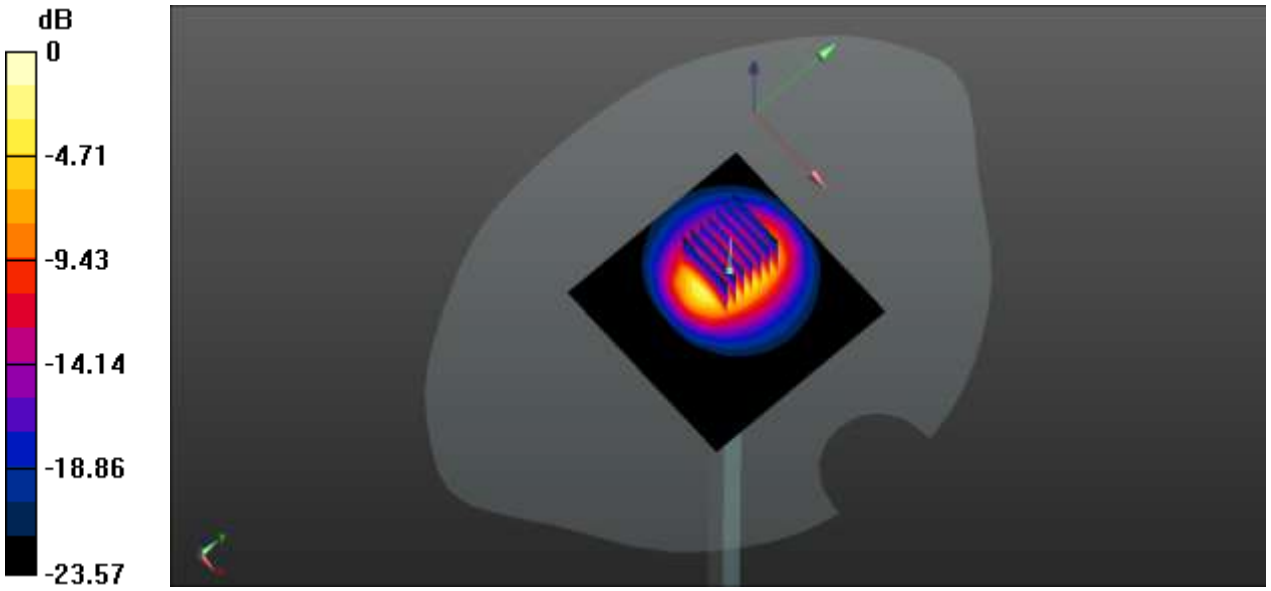
CW 2450 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 34.93 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 11.1 W/kg

SAR(1 g) = 5.56 W/kg; SAR(10 g) = 2.52 W/kg

Maximum value of SAR (measured) = 6.28 W/kg



0 dB = 6.28 W/kg

System Performance Check Data (2600MHz)

Date: 2021.03.02

Communication System Band: D2600 (2600.0 MHz); Frequency: 2600 MHz;Duty Cycle: 1:1

Medium parameters used (extrapolated): f = 2600 MHz; σ = 1.983 S/m; ε_r = 39.264; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.6

DASY4 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.5, 7.5, 7.5); Calibrated: 2020.08.07;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 2600 100mW/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 6.38 W/kg

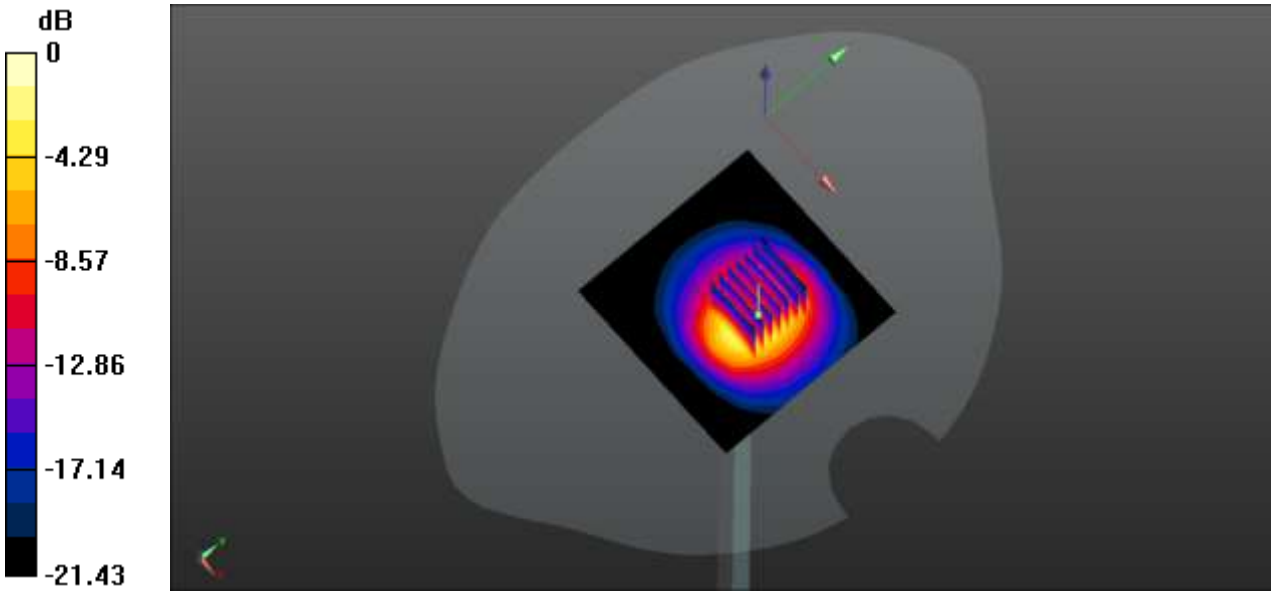
CW 2600 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 37.18 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 12.1 W/kg

SAR(1 g) = 5.46 W/kg; SAR(10 g) = 2.48 W/kg

Maximum value of SAR (measured) = 6.22 W/kg



0 dB = 6.22 W/kg

System Performance Check Data (2600MHz)

Date: 2021.03.03

Communication System Band: D2600 (2600.0 MHz); Frequency: 2600 MHz;Duty Cycle: 1:1

Medium parameters used (extrapolated): f = 2600 MHz; σ = 1.984 S/m; ε_r = 39.159; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.7 Liquid Temperature:21.6

DASY4 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.5, 7.5, 7.5); Calibrated: 2020.08.07;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 2600 100mw/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 6.03 W/kg

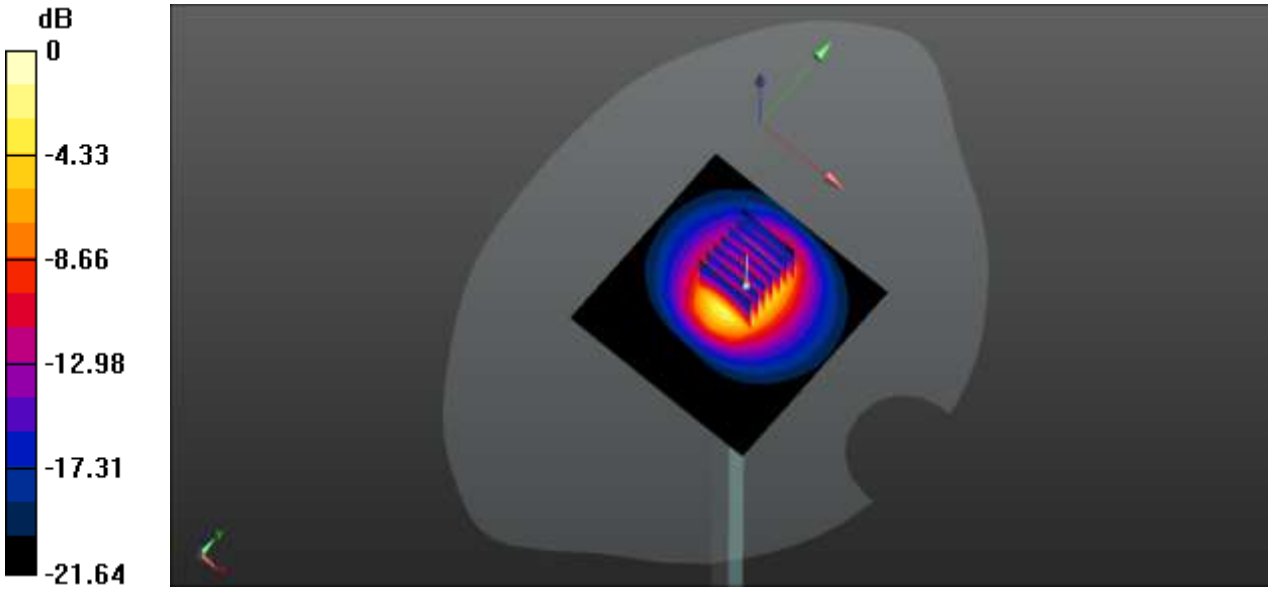
CW 2600 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 47.47 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 11.8 W/kg

SAR(1 g) = 5.56 W/kg; SAR(10 g) = 2.52 W/kg

Maximum value of SAR (measured) = 6.62 W/kg



0 dB = 6.62 W/kg

System Performance Check Data (2600MHz)

Date: 2021.03.04

Communication System Band: D2600 (2600.0 MHz); Frequency: 2600 MHz;Duty Cycle: 1:1

Medium parameters used (extrapolated): f = 2600 MHz; σ = 1.98 S/m; ε_r = 38.951; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.5, 7.5, 7.5); Calibrated: 2020.08.07;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 2600 100mW /Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 6.60 W/kg

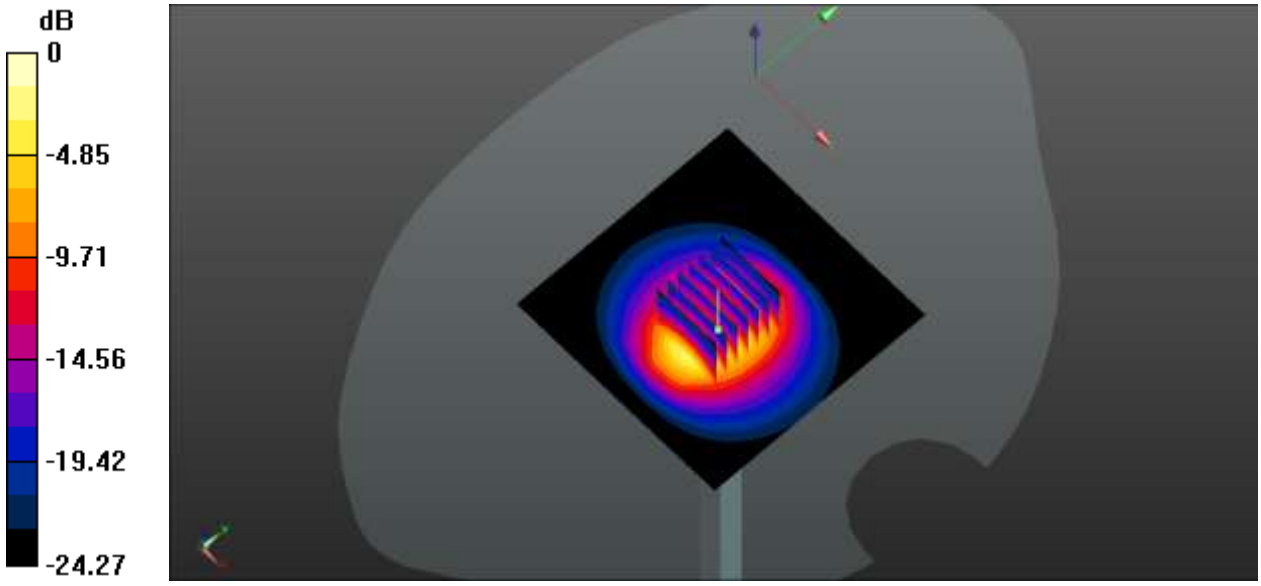
CW 2600 100mW /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 45.73 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 12.5 W/kg

SAR(1 g) = 5.42 W/kg; SAR(10 g) = 2.44 W/kg

Maximum value of SAR (measured) = 6.42 W/kg



0 dB = 6.42 W/kg

System Performance Check Data (2600MHz)

Date: 2021.03.05

Communication System Band: D2600 (2600.0 MHz); Frequency: 2600 MHz;Duty Cycle: 1:1

Medium parameters used (extrapolated): f = 2600 MHz; σ = 1.973 S/m; ε_r = 39.076; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.7 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.5, 7.5, 7.5); Calibrated: 2020.08.07;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 2600 100mW/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 6.46 W/kg

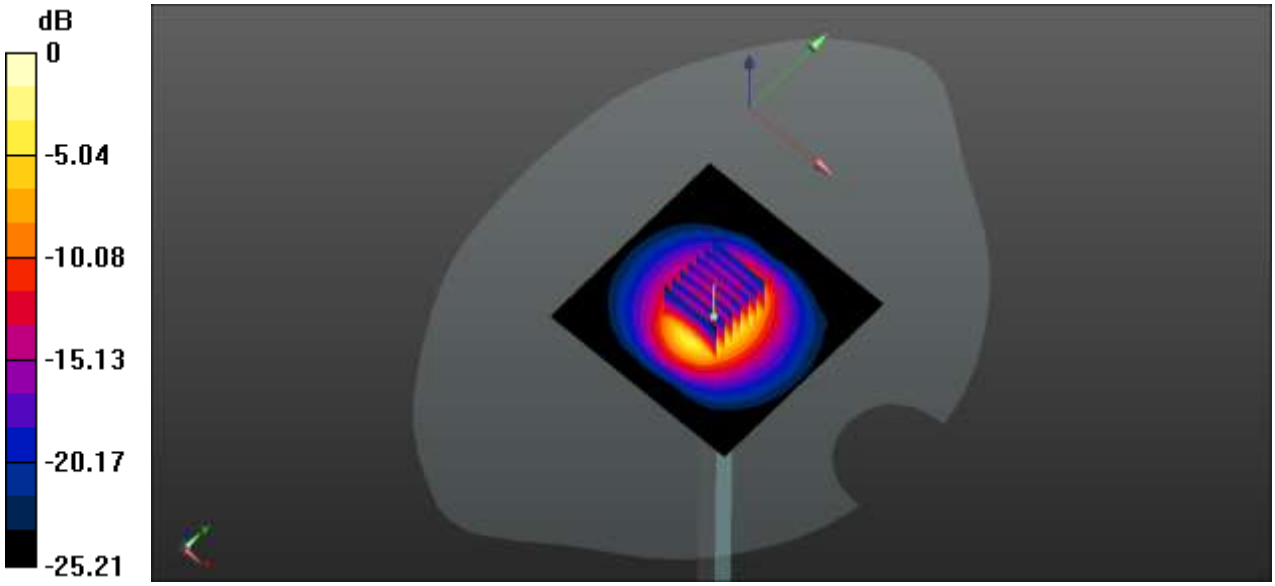
CW 2600 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 56.55 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 12.7 W/kg

SAR(1 g) = 5.54 W/kg; SAR(10 g) = 2.45 W/kg

Maximum value of SAR (measured) = 6.26 W/kg



0 dB = 6.26 W/kg

System Performance Check Data (2600MHz)

Date: 2021.03.06

Communication System Band: D2600 (2600.0 MHz); Frequency: 2600 MHz;Duty Cycle: 1:1

Medium parameters used: f = 2600 MHz; σ = 1.986 S/m; ε_r = 39.313; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.5, 7.5, 7.5); Calibrated: 2020.08.07;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 2600 100mW/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 6.45 W/kg

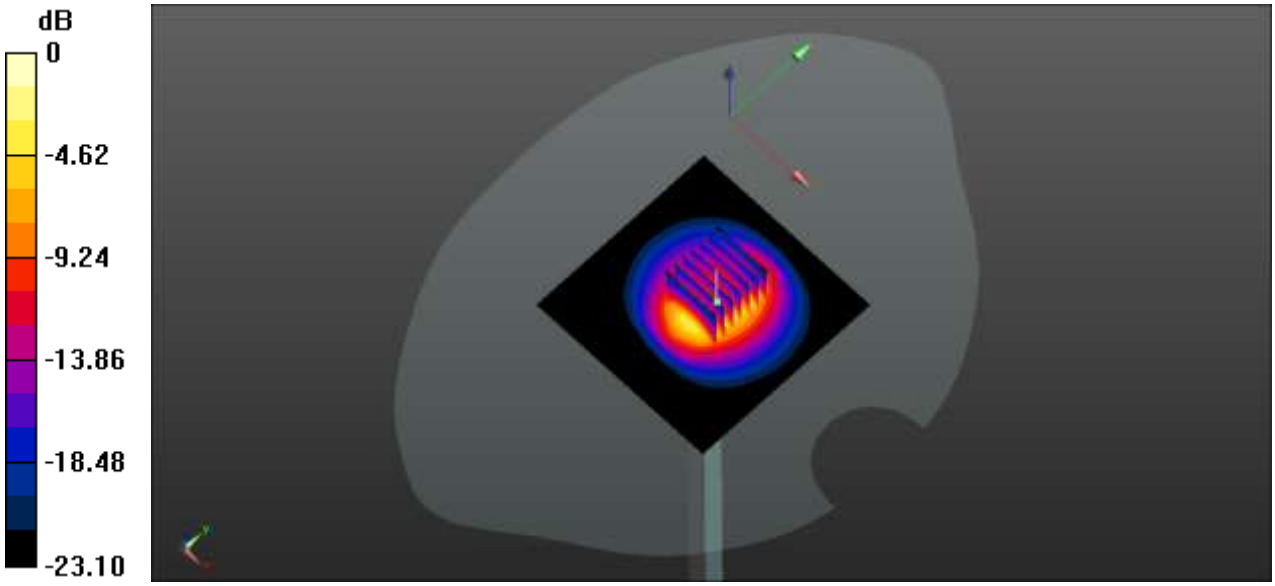
CW 2600 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 50.43 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 11.3 W/kg

SAR(1 g) = 5.34 W/kg; SAR(10 g) = 2.34 W/kg

Maximum value of SAR (measured) = 6.16 W/kg



0 dB = 6.16 W/kg

System Performance Check Data (2600MHz)

Date: 2021.03.08

Communication System Band: D2600 (2600.0 MHz); Frequency: 2600 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 2600 MHz; σ = 1.954 S/m; ε_r = 38.295; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.5, 7.5, 7.5); Calibrated: 2020.08.07;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 2600 100mW /Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 6.60 W/kg

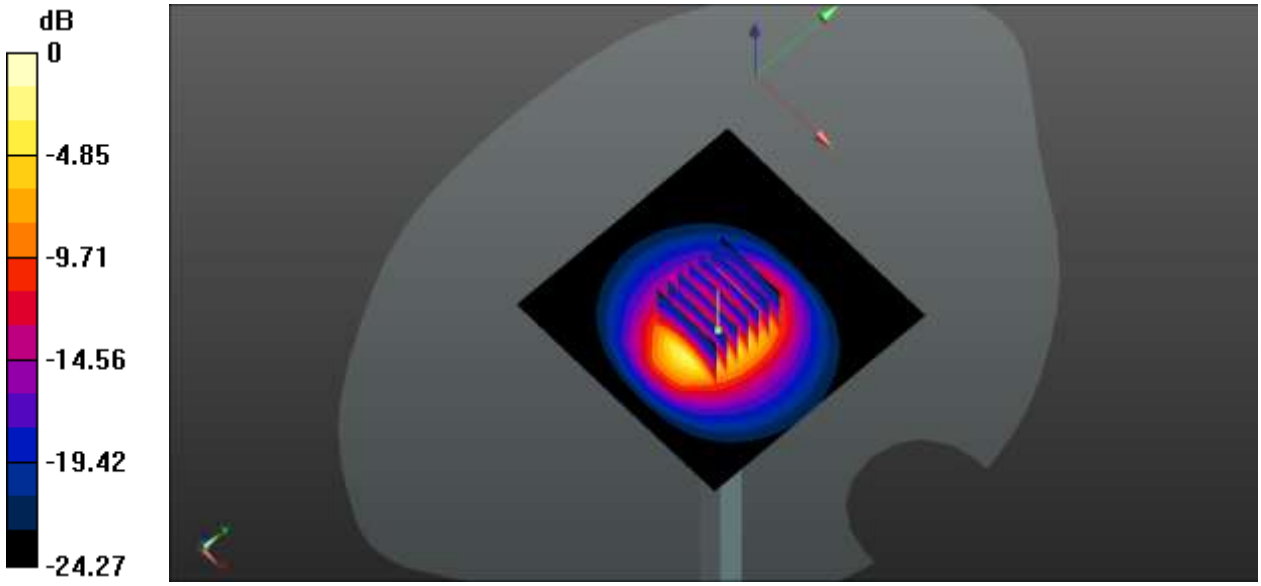
CW 2600 100mW /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 45.73 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 12.5 W/kg

SAR(1 g) = 5.38 W/kg; SAR(10 g) = 2.32 W/kg

Maximum value of SAR (measured) = 6.24 W/kg



0 dB = 6.24 W/kg

System Performance Check Data (2600MHz)

Date: 2021.03.10

Communication System Band: D2600 (2600.0 MHz); Frequency: 2600 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 2600 MHz; σ = 1.947 S/m; ε_r = 39.05; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.7 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.5, 7.5, 7.5); Calibrated: 2020.08.07;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 2600 100mW /Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 6.56 W/kg

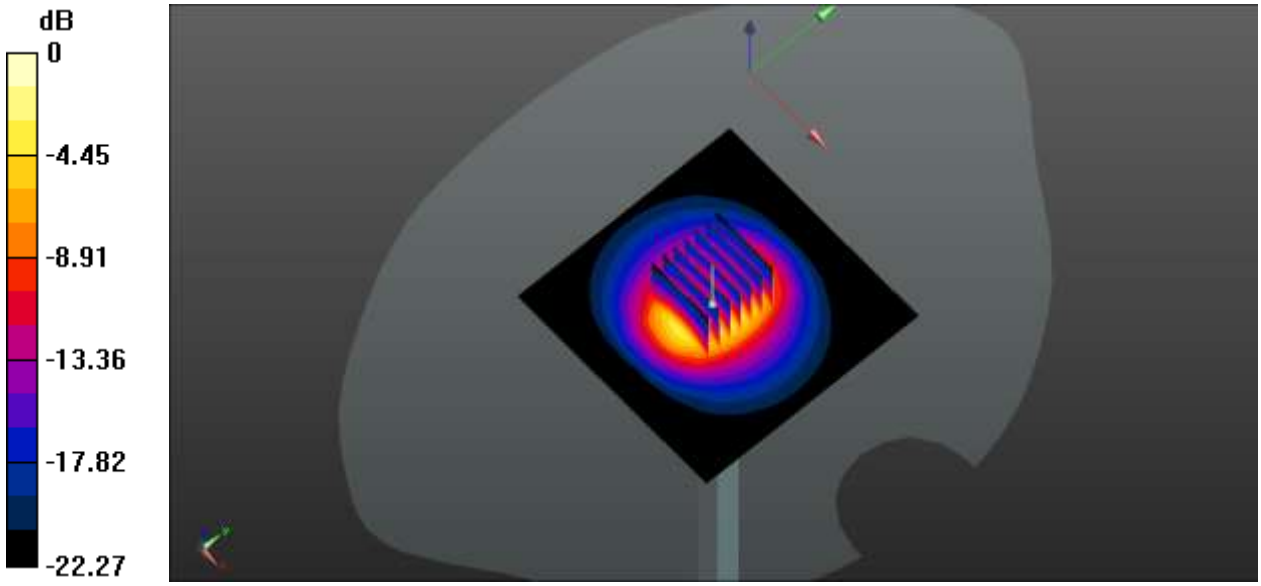
CW 2600 100mW /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 57.58 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 13.2 W/kg

SAR(1 g) = 5.44 W/kg; SAR(10 g) = 2.38 W/kg

Maximum value of SAR (measured) = 6.32 W/kg



0 dB = 6.32 W/kg

System Performance Check Data (2600MHz)

Date: 2021.03.11

Communication System Band: D2600 (2600.0 MHz); Frequency: 2600 MHz;Duty Cycle: 1:1

Medium parameters used: f = 2600 MHz; σ = 1.953 S/m; ε_r = 38.93; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.7 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.5, 7.5, 7.5); Calibrated: 2020.08.07;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW2600 HEAD 100mW/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 6.29 W/kg

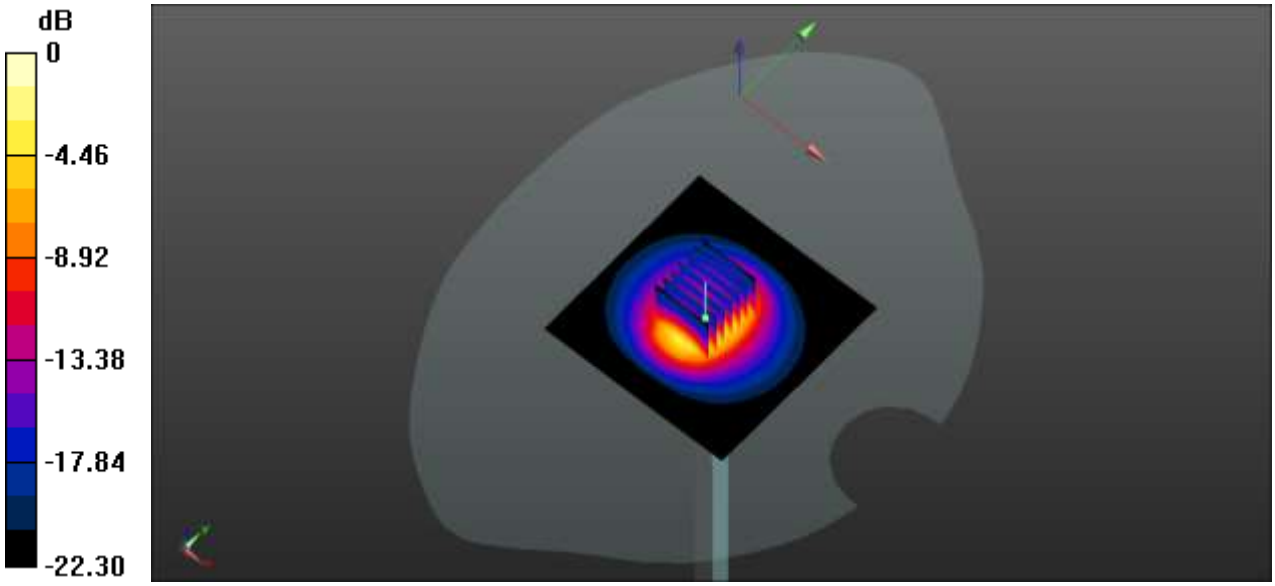
CW2600 HEAD 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 56.23 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 12.7 W/kg

SAR(1 g) = 5.72 W/kg; SAR(10 g) = 2.62 W/kg

Maximum value of SAR (measured) = 6.62 W/kg



0 dB = 6.62 W/kg

System Performance Check Data (2600MHz)

Date: 2021.03.12

Communication System Band: D2600 (2600.0 MHz); Frequency: 2600 MHz;Duty Cycle: 1:1

Medium parameters used (extrapolated): f = 2600 MHz; σ = 1.956 S/m; ε_r = 38.629; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.5

DASY4 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.5, 7.5, 7.5); Calibrated: 2020.08.07;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 2600 100mW/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 6.43 W/kg

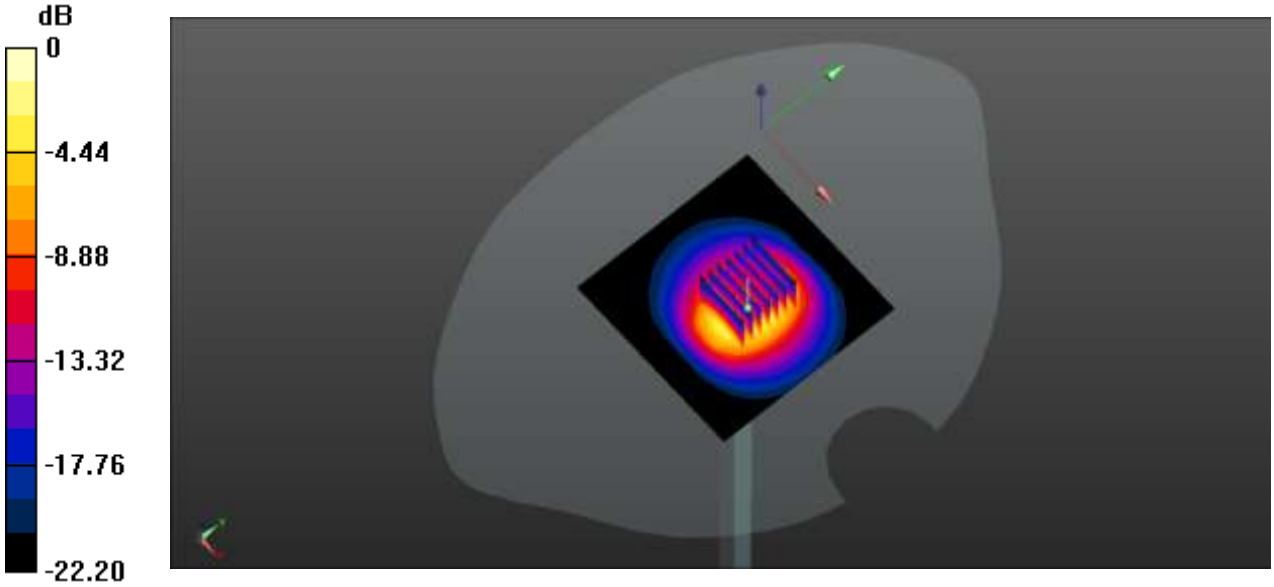
CW 2600 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 48.42 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 12.7 W/kg

SAR(1 g) = 5.41 W/kg; SAR(10 g) = 2.44 W/kg

Maximum value of SAR (measured) = 6.34 W/kg



0 dB = 6.34 W/kg

System Performance Check Data (2600MHz)

Date: 2021.03.13

Communication System Band: D2600 (2600.0 MHz); Frequency: 2600 MHz;Duty Cycle: 1:1

Medium parameters used (extrapolated): f = 2600 MHz; σ = 1.95 S/m; ε_r = 38.749; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.7 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.5, 7.5, 7.5); Calibrated: 2020.08.07;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 2600 100mW/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 6.38 W/kg

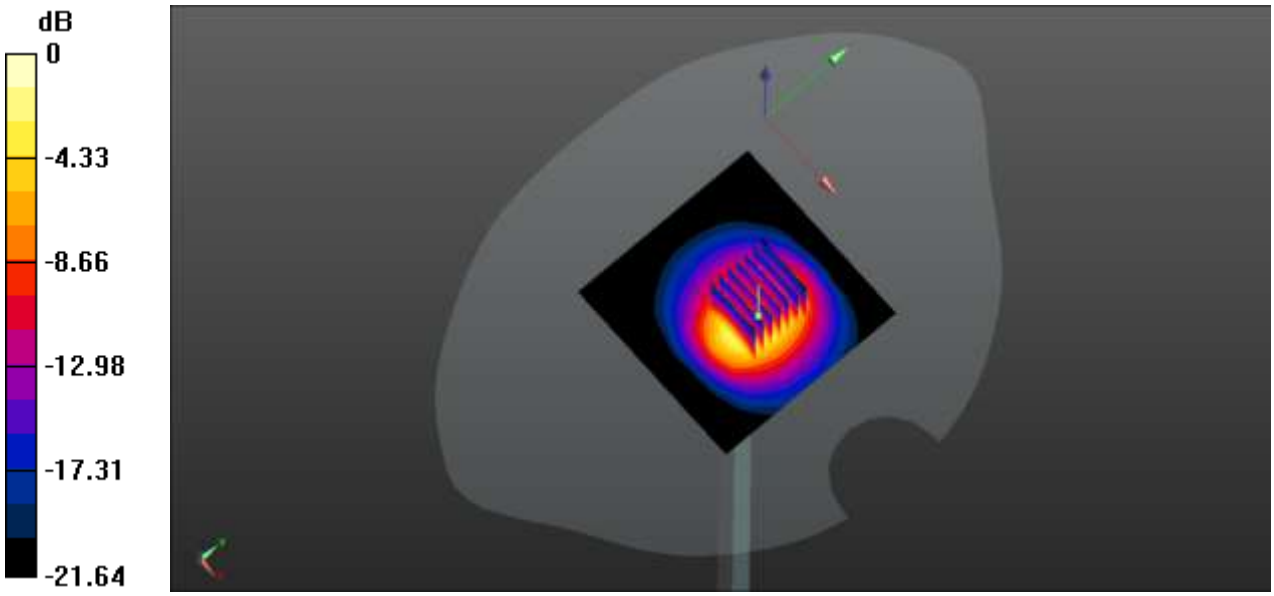
CW 2600 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 37.21 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 12.1 W/kg

SAR(1 g) = 5.54 W/kg; SAR(10 g) = 2.42 W/kg

Maximum value of SAR (measured) = 6.33 W/kg



0 dB = 6.33 W/kg

System Performance Check Data (5200MHz)

Date: 2021.02.26

Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5200 MHz;Duty Cycle: 1:1

Medium parameters used: f = 5200 MHz; σ = 4.63 S/m; ε_r = 36.478; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(5.46, 5.46, 5.46); Calibrated: 2020.08.07;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 5200 100mW/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 8.11 W/kg

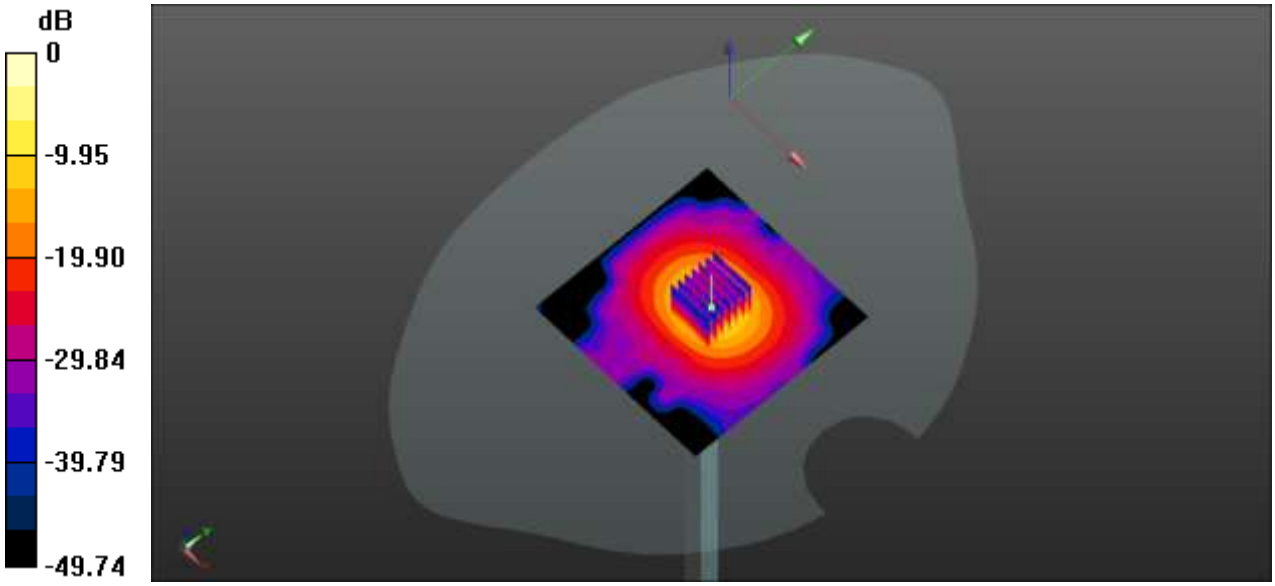
CW 5200 100mW/Zoom Scan (7x7x21)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 36.55 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 31.8 W/kg

SAR(1 g) = 7.52 W/kg; SAR(10 g) = 2.16 W/kg

Maximum value of SAR (measured) = 18.7 W/kg



0 dB = 18.7 W/kg

System Performance Check Data (5300MHz)

Date: 2021.02.26

Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5300 MHz;Duty Cycle: 1:1

Medium parameters used: f = 5300 MHz; σ = 4.779 S/m; ε_r = 35.76; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(5.3, 5.3, 5.3); Calibrated: 2020.08.07;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 5300 100mW/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 14.3 W/kg

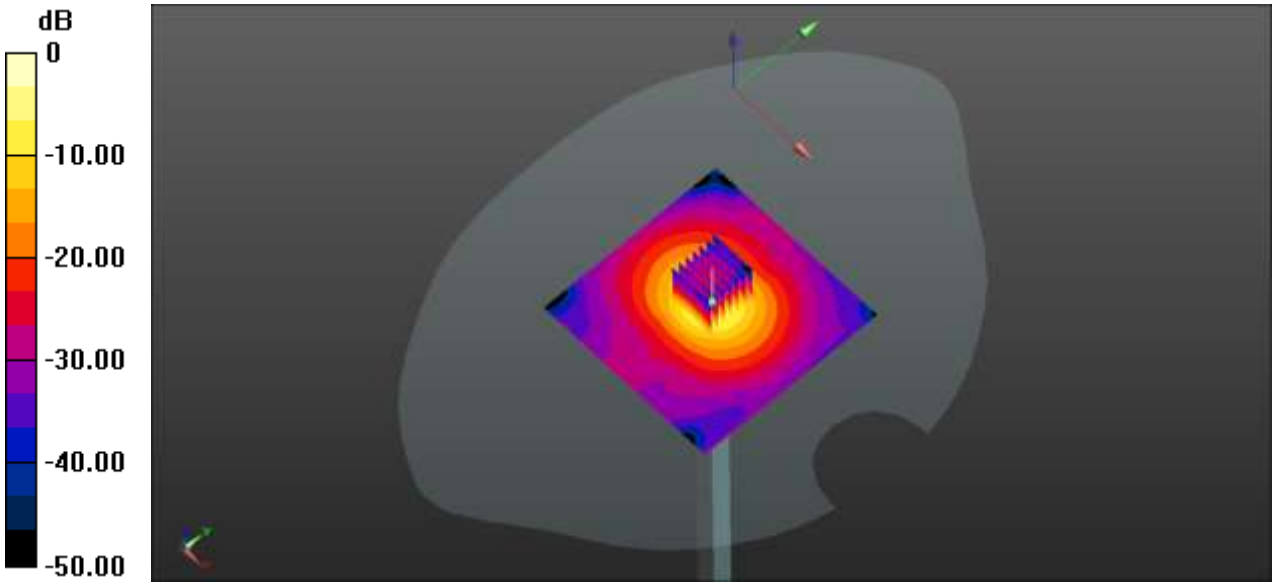
CW 5300 100mW/Zoom Scan (7x7x21)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 37.78 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 31.9 W/kg

SAR(1 g) = 7.42 W/kg; SAR(10 g) = 2.08 W/kg

Maximum value of SAR (measured) = 18.4 W/kg



0 dB = 18.4 W/kg

System Performance Check Data (5600MHz)

Date: 2021.02.27

Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5600 MHz;Duty Cycle: 1:1

Medium parameters used: f = 5600 MHz; σ = 5.07 S/m; ε_r = 36.026; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.7 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(4.85, 4.85, 4.85); Calibrated: 2020.08.07;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 5600 100mW /Area Scan (81x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 9.13 W/kg

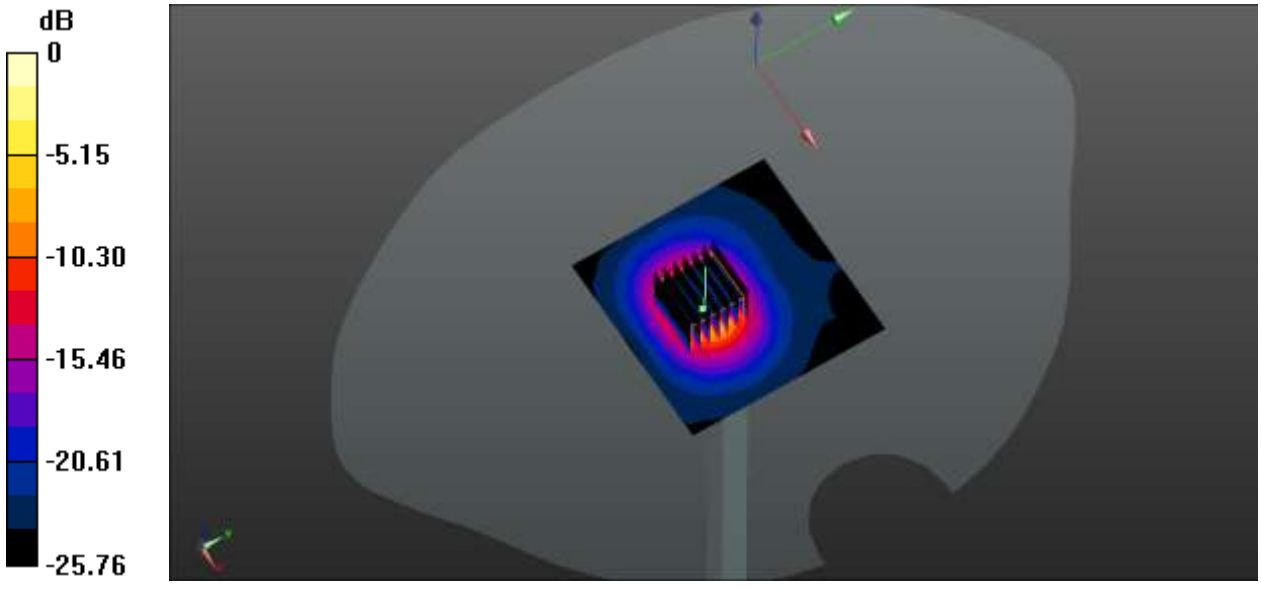
CW 5600 100mW /Zoom Scan (7x7x15)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 22.84 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 38.21 W/kg

SAR(1 g) = 8.38 W/kg; SAR(10 g) = 2.26 W/kg

Maximum value of SAR (measured) = 21.4 W/kg



0 dB = 21.4 W/kg

System Performance Check Data (5800MHz)

Date: 2021.02.28

Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5800 MHz;Duty Cycle: 1:1

Medium parameters used: f = 5800 MHz; σ = 5.254 S/m; ε_r = 35.418; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.7 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(4.86, 4.86, 4.86); Calibrated: 2020.08.07;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW5800 HEAD 100mW/Area Scan (81x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 8.48 W/kg

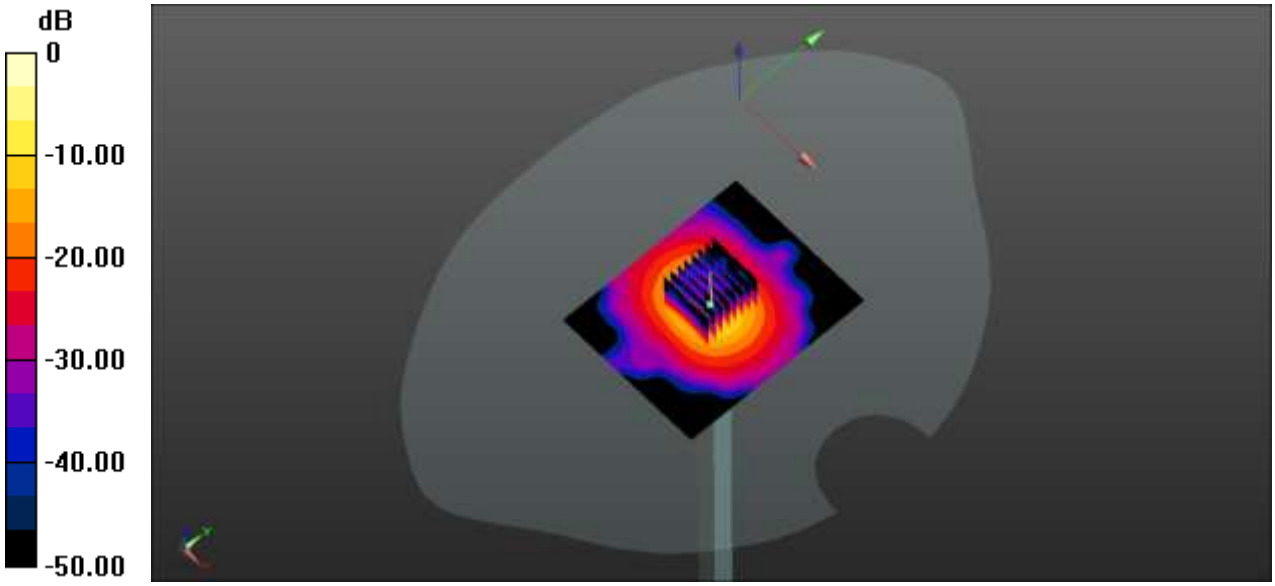
CW5800 HEAD 100mW/Zoom Scan (8x8x21)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 36.33 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 35.42 W/kg

SAR(1 g) = 7.88 W/kg; SAR(10 g) = 2.18 W/kg

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



0 dB = 16.4 W/kg

ANNEX C TEST DATA

Meas.1 Right Head with Cheek on Middle Channel in GPRS850 4Slots mode With Antenna1

Date: 2021.02.24

Communication System Band: GPRS850; Frequency: 836.6 MHz;Duty Cycle: 1:2.08

Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.907 S/m; ε_r = 41.822; ρ = 1000 kg/m^3

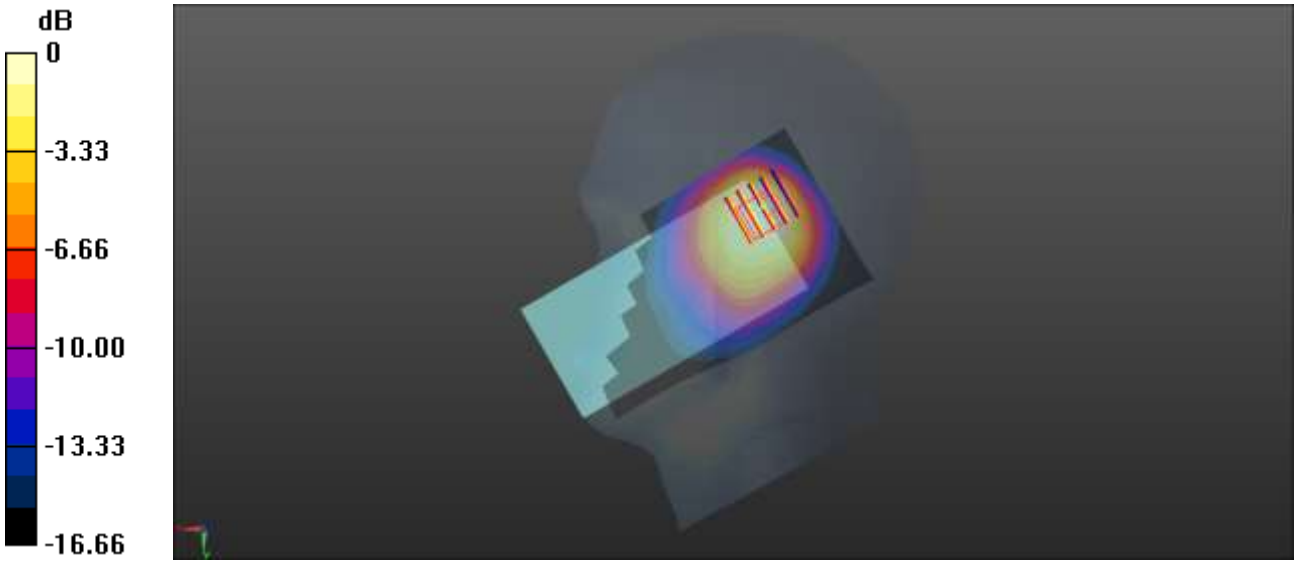
Phantom section: Right Section

Ambient Temperature:22.6 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.94, 9.94, 9.94); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Left 1402; Serial: TP1402
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch 190/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.656 W/kg
Ch 190/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.10 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 1.05 W/kg
SAR(1 g) = 0.536 W/kg; SAR(10 g) = 0.333 W/kg
Maximum value of SAR (measured) = 0.545 W/kg



0 dB = 0.545 W/kg

Meas.2 Body Plane with Back Side 15mm on Middle Channel in GPRS850 4Slots mode With Antenna0

Date: 2021.02.24

Communication System Band: GPRS850; Frequency: 836.6 MHz;Duty Cycle: 1:2.08

Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.907 S/m; ε_r = 41.822; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.5

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.94, 9.94, 9.94); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Left 1402; Serial: TP1402
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch190/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.206 W/kg

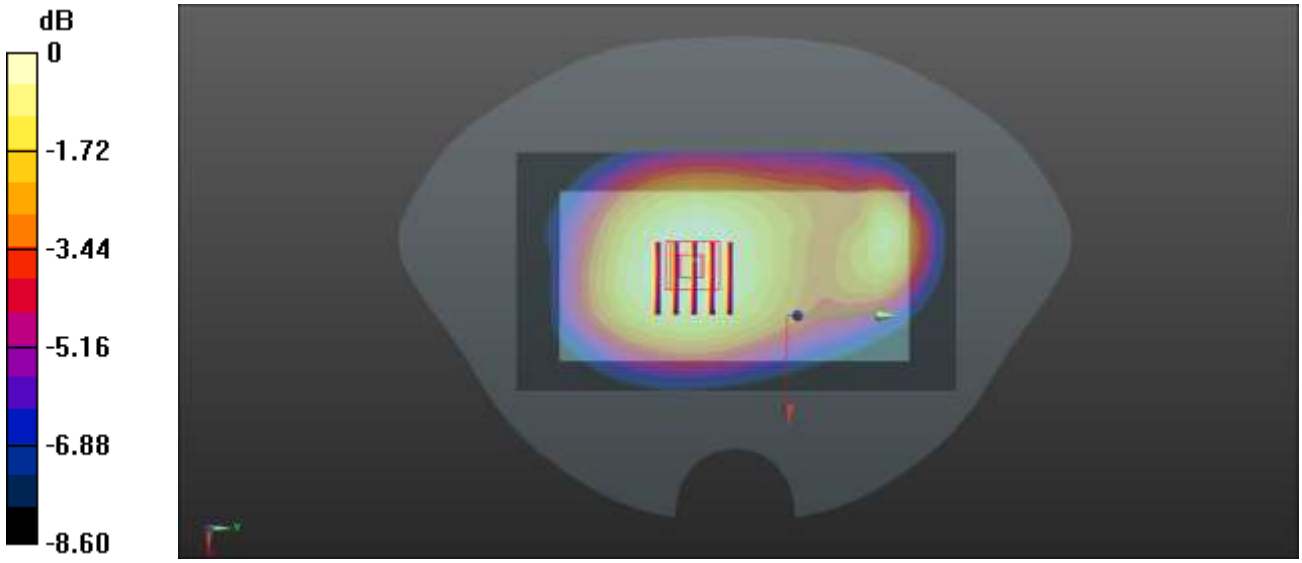
Ch190/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.25 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.241 W/kg

SAR(1 g) = 0.194 W/kg; SAR(10 g) = 0.149 W/kg

Maximum value of SAR (measured) = 0.204 W/kg



0 dB = 0.204 W/kg

Meas.3 Body Plane with Back Side 10mm on Middle Channel in GPRS850 4Slots mode With Antenna0

Date: 2021.02.24

Communication System Band: GPRS850; Frequency: 836.6 MHz;Duty Cycle: 1:2.08

Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.907 S/m; ε_r = 41.822; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.5

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.94, 9.94, 9.94); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Left 1402; Serial: TP1402
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch190/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.361 W/kg

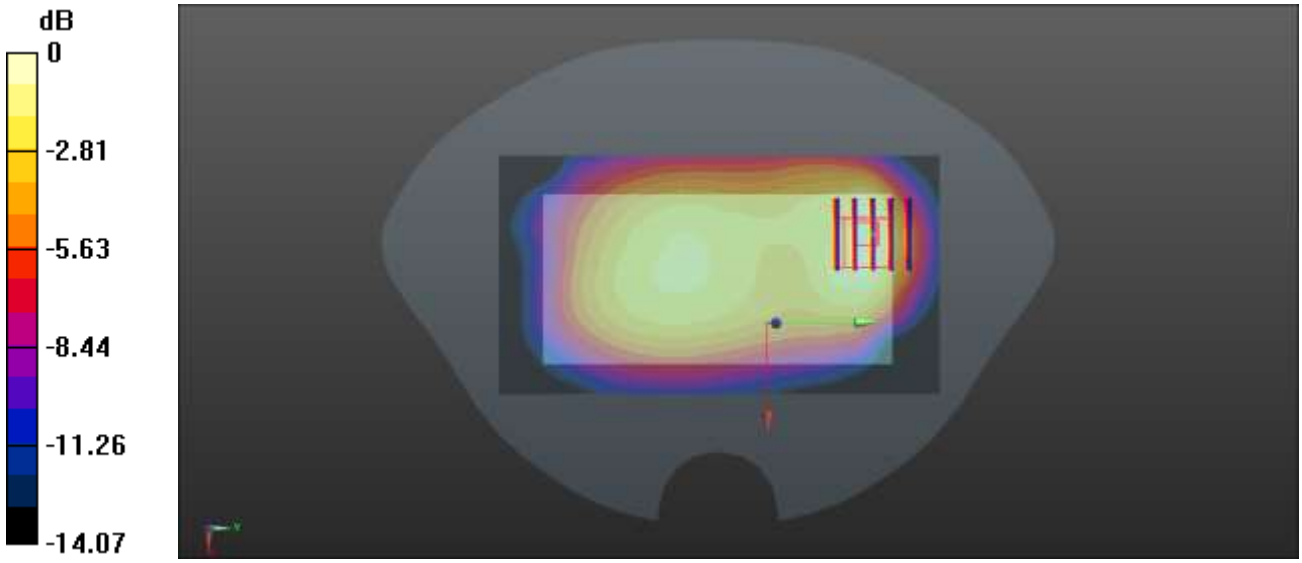
Ch190/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.60 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.566 W/kg

SAR(1 g) = 0.320 W/kg; SAR(10 g) = 0.193 W/kg

Maximum value of SAR (measured) = 0.350 W/kg



0 dB = 0.350 W/kg

Meas.4 Right Head with Tilt on Middle Channel in GPRS1900 3Slots mode with Antenna1

Date: 2021.03.10

Communication System Band: GPRS1900; Frequency: 1880 MHz;Duty Cycle: 1:2.77

Medium parameters used: f = 1880 MHz; σ = 1.4 S/m; ε_r = 40.281; ρ = 1000 kg/m^3

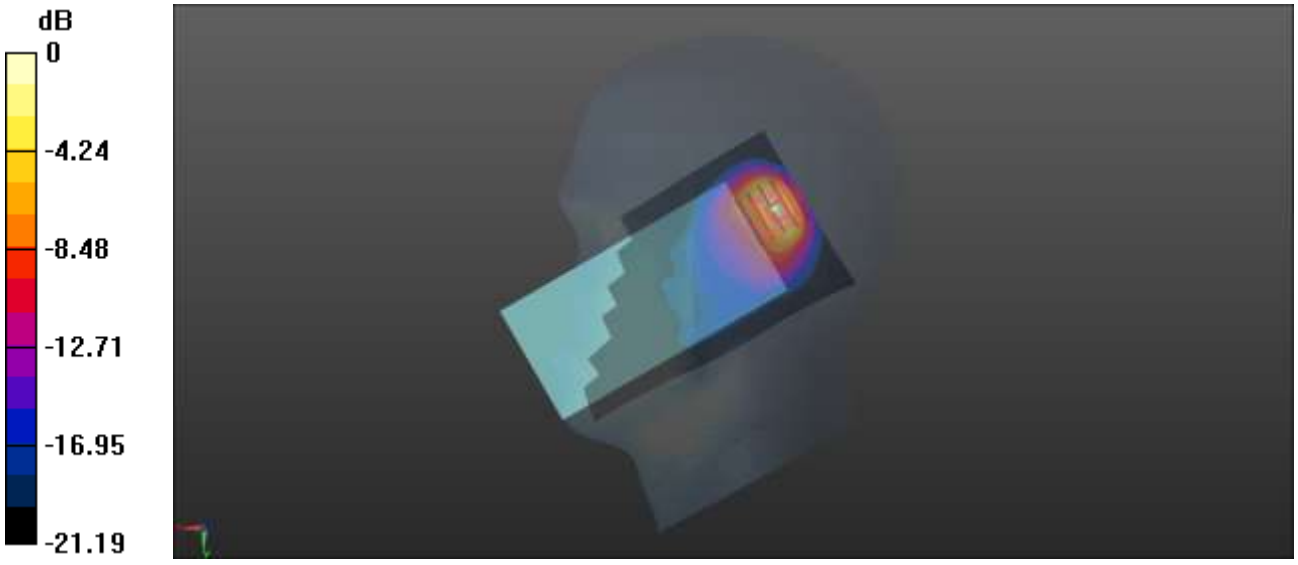
Phantom section: Right Section

Ambient Temperature:22.6 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.3, 8.3, 8.3); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch 661/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.544 W/kg
Ch 661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.676 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.980 W/kg
SAR(1 g) = 0.478 W/kg; SAR(10 g) = 0.216 W/kg
Maximum value of SAR (measured) = 0.576 W/kg



0 dB = 0.576 W/kg

Meas.5 Body Plane with Back Side 15mm on Low Channel in GPRS1900 3Slots mode With Antenna0

Date: 2021.03.10

Communication System Band: GPRS1900; Frequency: 1850.2 MHz;Duty Cycle: 1:2.77

Medium parameters used: f = 1850.2 MHz; σ = 1.384 S/m; ε_r = 40.447; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.4

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.3, 8.3, 8.3); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch512/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.236 W/kg

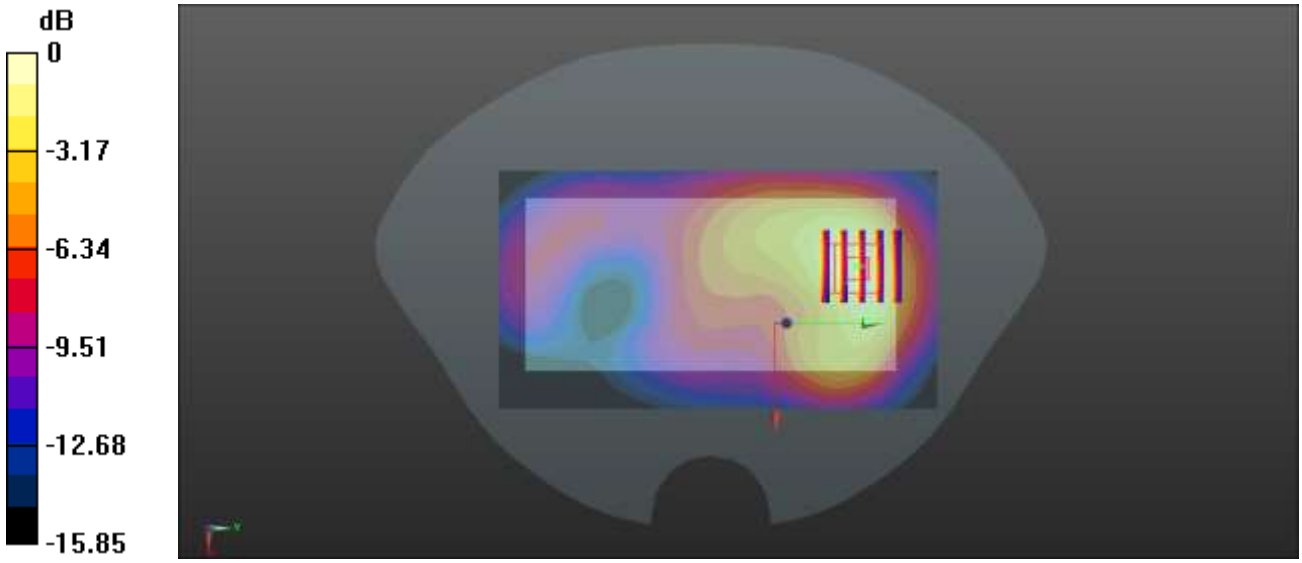
Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.373 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.343 W/kg

SAR(1 g) = 0.215 W/kg; SAR(10 g) = 0.130 W/kg

Maximum value of SAR (measured) = 0.235 W/kg



0 dB = 0.235 W/kg

Meas.6 Body Plane with Bottom Edge 15mm on Low Channel in GPRS1900 3Slots mode With Antenna0

Date: 2021.03.10

Communication System Band: GPRS1900; Frequency: 1850.2 MHz;Duty Cycle: 1:2.77

Medium parameters used: f = 1850.2 MHz; σ = 1.384 S/m; ε_r = 40.447; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.4

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.3, 8.3, 8.3); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch512/Area Scan (51x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.476 W/kg

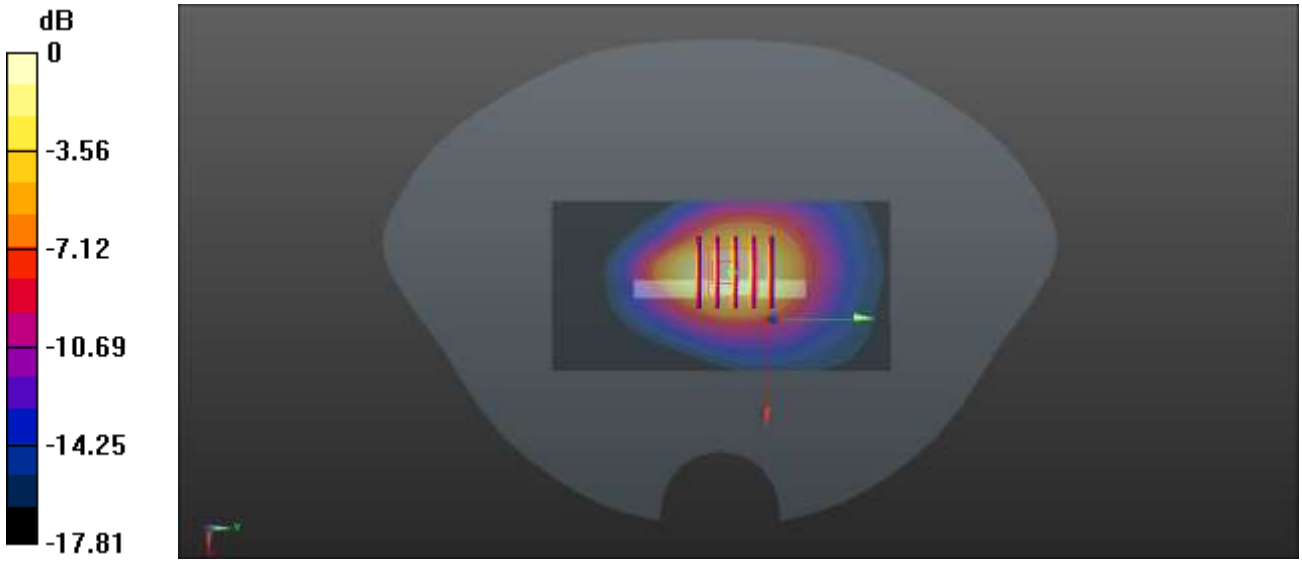
Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.45 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.689 W/kg

SAR(1 g) = 0.409 W/kg; SAR(10 g) = 0.228 W/kg

Maximum value of SAR (measured) = 0.449 W/kg



0 dB = 0.449 W/kg

Meas.7 Body Plane with Top Edge 15mm on Low Channel in GPRS1900 3Slots mode With Antenna1

Date: 2021.03.10

Communication System Band: GPRS1900; Frequency: 1850.2 MHz;Duty Cycle: 1:2.77

Medium parameters used: f = 1850.2 MHz; σ = 1.384 S/m; ε_r = 40.447; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.4

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.3, 8.3, 8.3); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch512/Area Scan (51x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

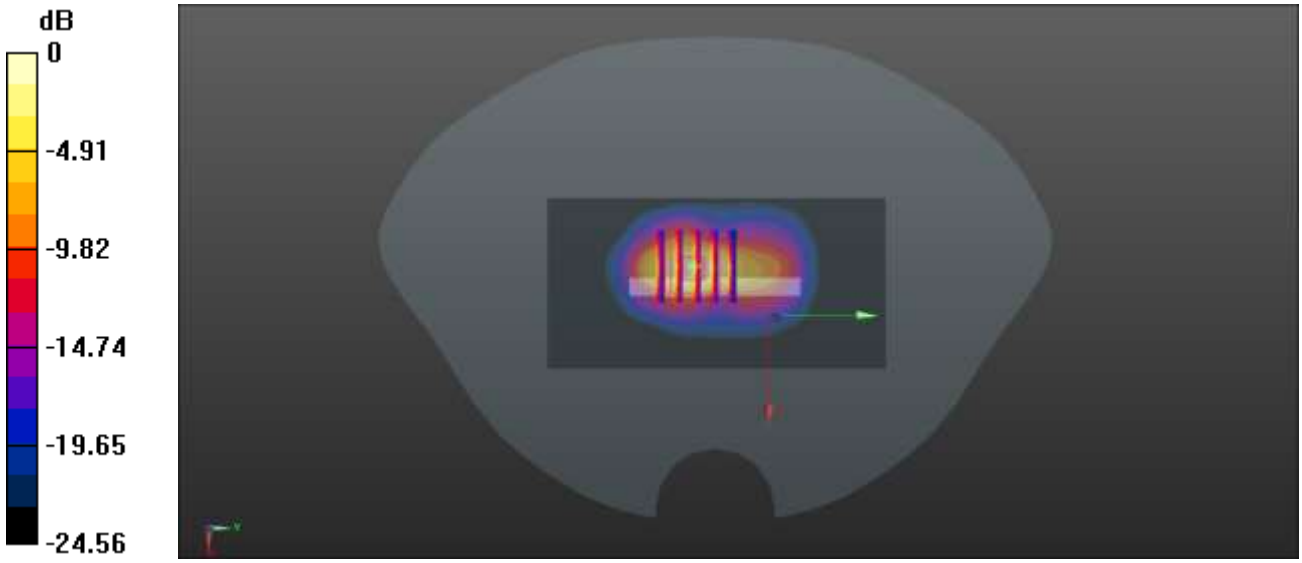
Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 38.16 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 6.86 W/kg

SAR(1 g) = 2.73 W/kg; SAR(10 g) = 1.06 W/kg

Maximum value of SAR (measured) = 3.39 W/kg



0 dB = 3.39 W/kg

Meas.8 Right Head with Tilt on Low Channel in WCDMA B2 mode With Antenna1

Date: 2021.03.11

Communication System Band: II; Frequency: 1852.4 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1852.4 MHz; σ = 1.383 S/m; ε_r = 40.485; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.4 Liquid Temperature:21.3

DASY4 Configuration:

- Probe: Probe: EX3DV4 - SN7510; ConvF(8.3, 8.3, 8.3); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch9262/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.784 W/kg

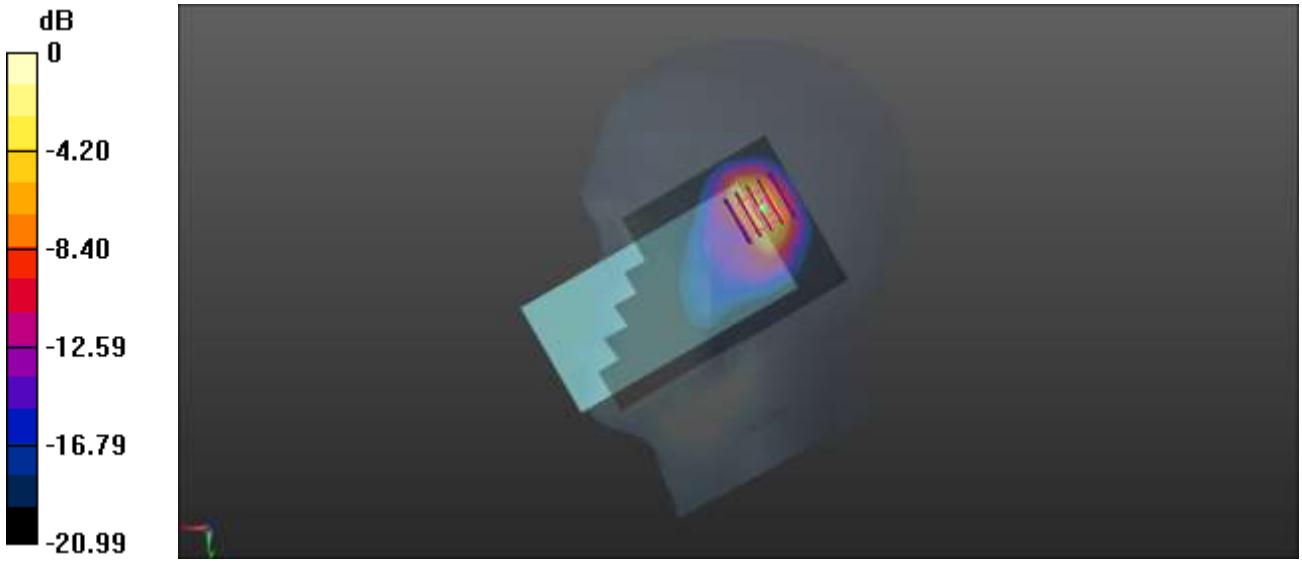
Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.13 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.47 W/kg

SAR(1 g) = 0.686 W/kg; SAR(10 g) = 0.301 W/kg

Maximum value of SAR (measured) = 0.822 W/kg



0 dB = 0.822 W/kg

Meas.9 Body Plane with Back Side 15mm on Low Channel in WCDMA B2 mode With Antenna1

Date: 2021.03.11

Communication System Band: II; Frequency: 1852.4 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1852.4 MHz; σ = 1.383 S/m; ε_r = 40.485; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.3

DASY4 Configuration:

- Probe: Probe: EX3DV4 - SN7510; ConvF(8.3, 8.3, 8.3); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch9262/Area Scan (71x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.235 W/kg

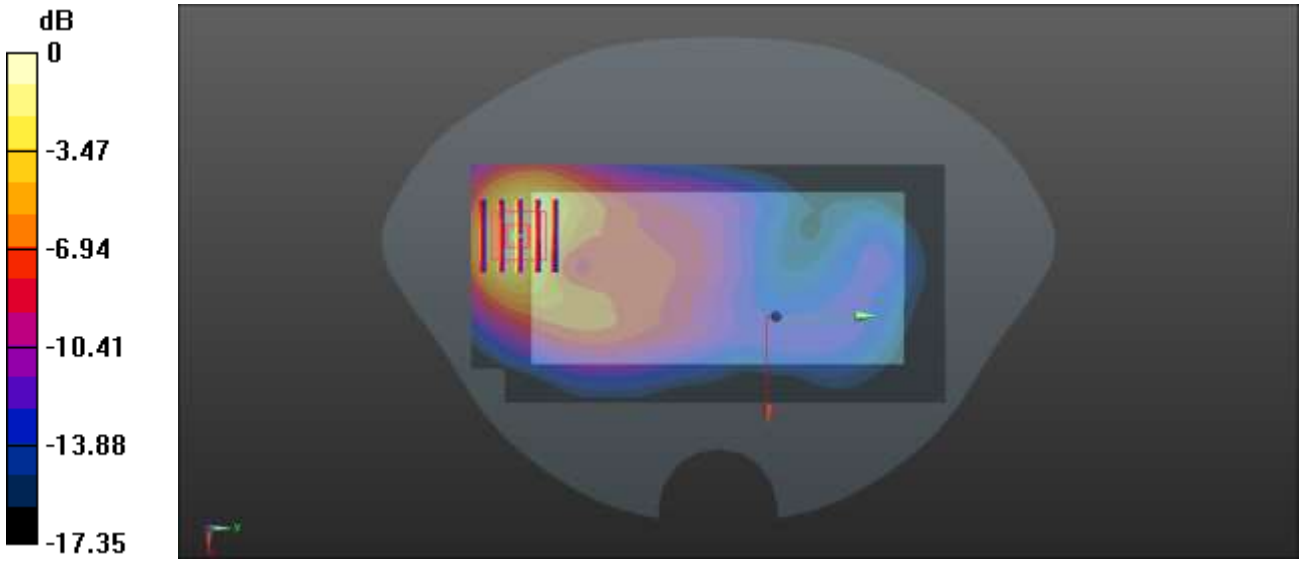
Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.114 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.367 W/kg

SAR(1 g) = 0.217 W/kg; SAR(10 g) = 0.120 W/kg

Maximum value of SAR (measured) = 0.241 W/kg



0 dB = 0.241 W/kg

Meas.10 Body Plane with Top Edge 10mm on Low Channel in WCDMA B2 mode With Antenna1

Date: 2021.03.11

Communication System Band: II; Frequency: 1852.4 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1852.4 MHz; σ = 1.383 S/m; ε_r = 40.485; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.3

DASY4 Configuration:

- Probe: Probe: EX3DV4 - SN7510; ConvF(8.3, 8.3, 8.3); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch9262/Area Scan (51x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.512 W/kg

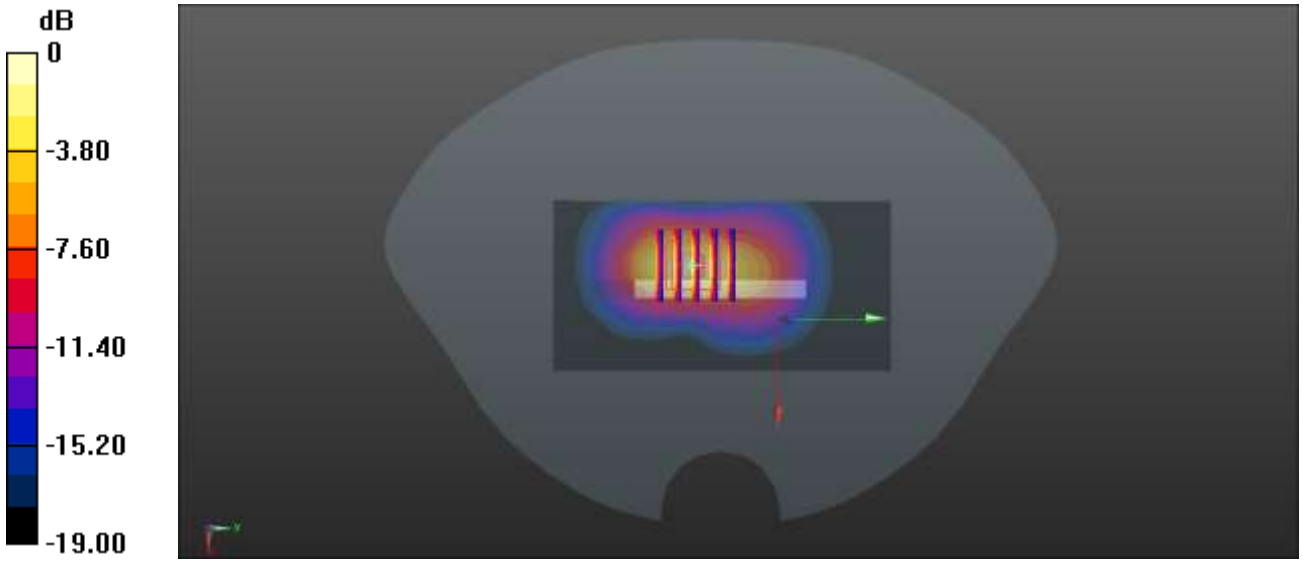
Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.72 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.845 W/kg

SAR(1 g) = 0.445 W/kg; SAR(10 g) = 0.216 W/kg

Maximum value of SAR (measured) = 0.515 W/kg



0 dB = 0.515 W/kg

Meas.11 Body Plane with Top Edge 0mm on Low Channel in WCDMA B2 mode With Antenna1

Date: 2021.03.11

Communication System Band: II; Frequency: 1880 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1880 MHz; σ = 1.397 S/m; ε_r = 40.316; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.3

DASY4 Configuration:

- Probe: Probe: EX3DV4 - SN7510; ConvF(8.3, 8.3, 8.3); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch9400/Area Scan (51x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 4.13 W/kg

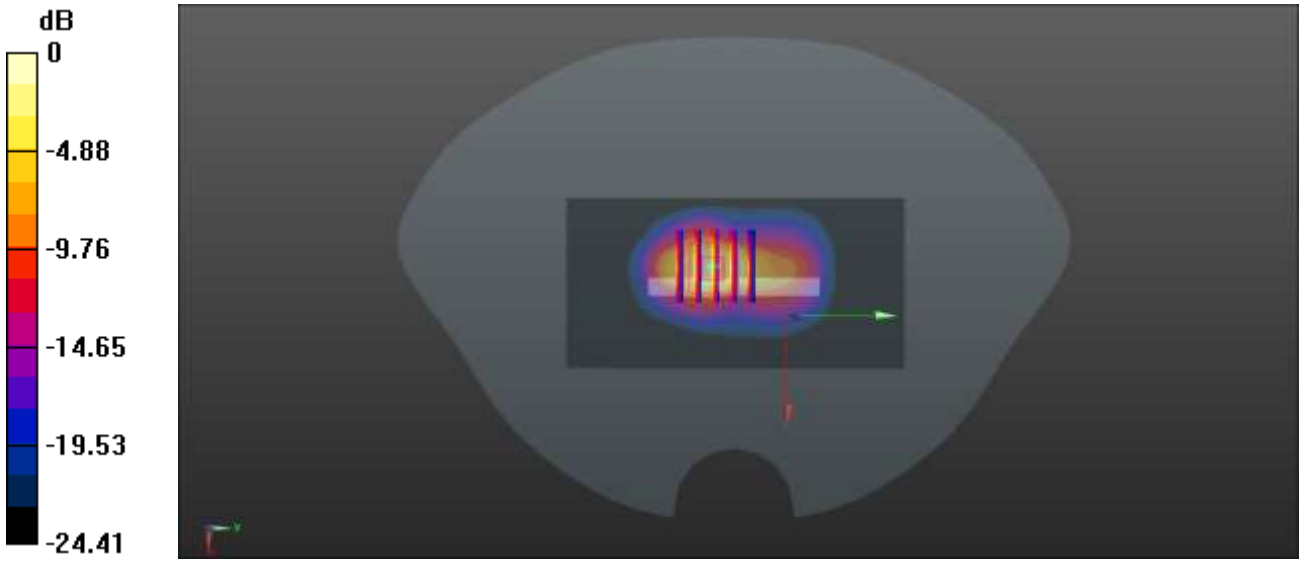
Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 42.24 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 8.56 W/kg

SAR(1 g) = 3.36 W/kg; SAR(10 g) = 1.3 W/kg

Maximum value of SAR (measured) = 4.16 W/kg



0 dB = 4.16 W/kg

Meas.12 Right Head with Tilt on Middle Channel in WCDMA B4 mode With Antenna1

Date: 2021.03.05

Communication System Band: IV; Frequency: 1732.4 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.368 S/m; ε_r = 40.475; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.6 Liquid Temperature:21.4

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.6, 8.6, 8.6); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch1412/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.517 W/kg

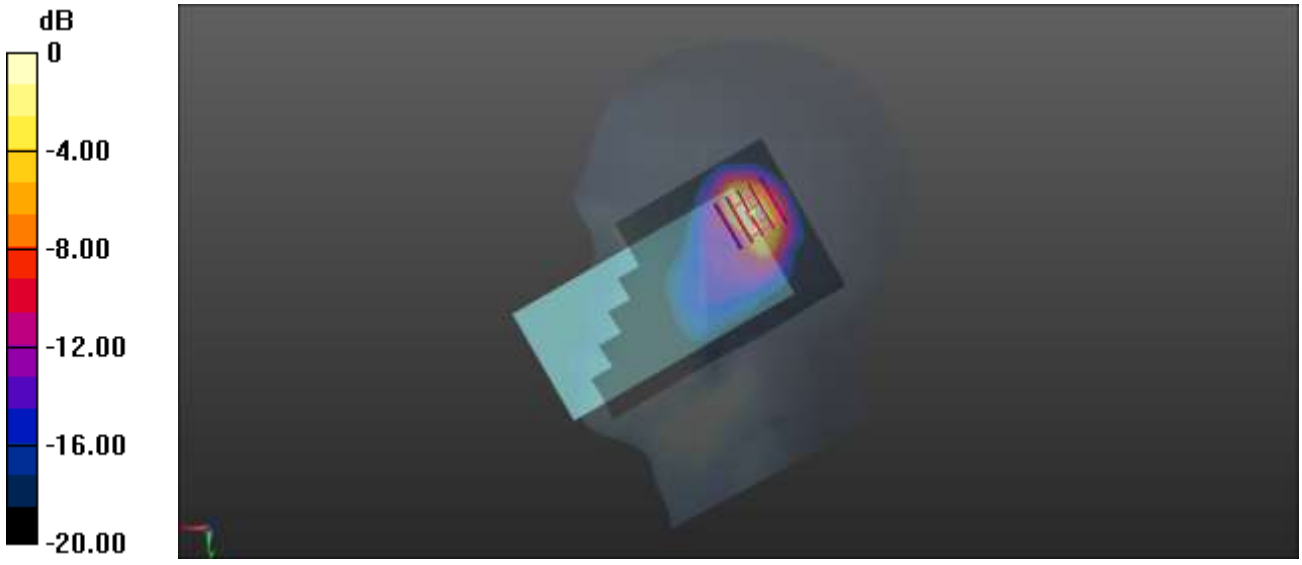
Ch1412/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.79 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.937 W/kg

SAR(1 g) = 0.438 W/kg; SAR(10 g) = 0.193 W/kg

Maximum value of SAR (measured) = 0.525 W/kg



0 dB = 0.525 W/kg

Meas.13 Body Plane with Back Side 15mm on Middle Channel in WCDMA B4 mode With Antenna0

Date: 2021.03.05

Communication System Band: IV; Frequency: 1752.6 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.38 S/m; ε_r = 40.228; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.4

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.6, 8.6, 8.6); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch1412/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.153 W/kg

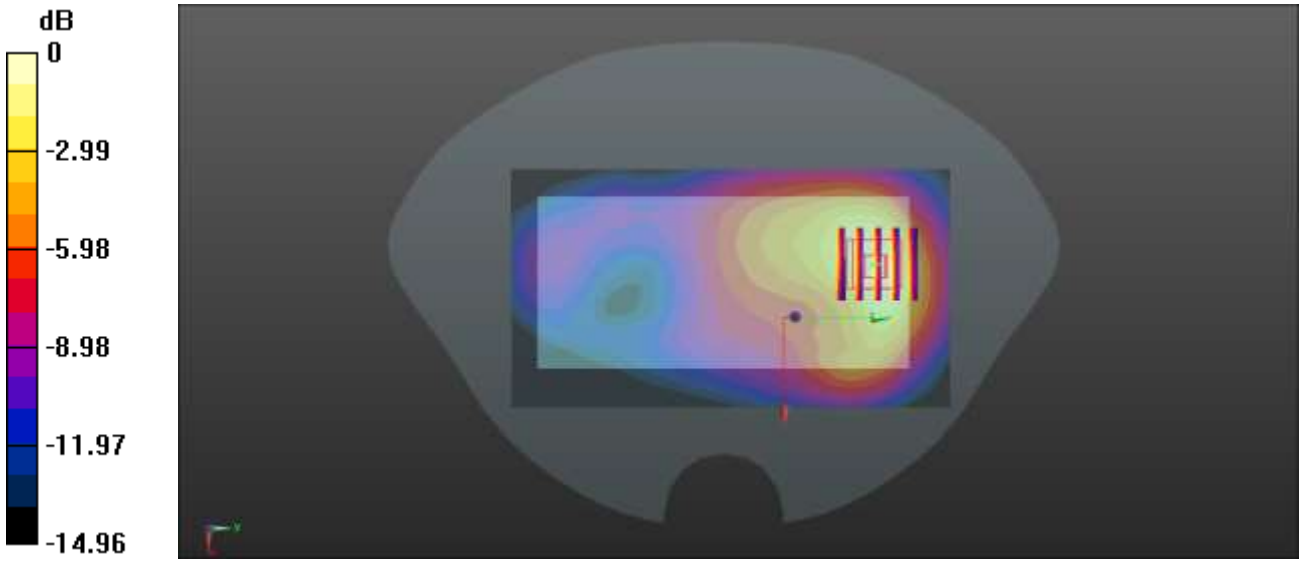
Ch1412/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.750 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.216 W/kg

SAR(1 g) = 0.140 W/kg; SAR(10 g) = 0.085 W/kg

Maximum value of SAR (measured) = 0.152 W/kg



0 dB = 0.152 W/kg

Meas.14 Body Plane with Top Edge 10mm on Middle Channel in WCDMA B4 mode With Antenna1

Date: 2021.03.05

Communication System Band: IV; Frequency: 1732.4 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.368 S/m; ε_r = 40.475; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.4

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.6, 8.6, 8.6); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch1412/Area Scan (51x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.318 W/kg

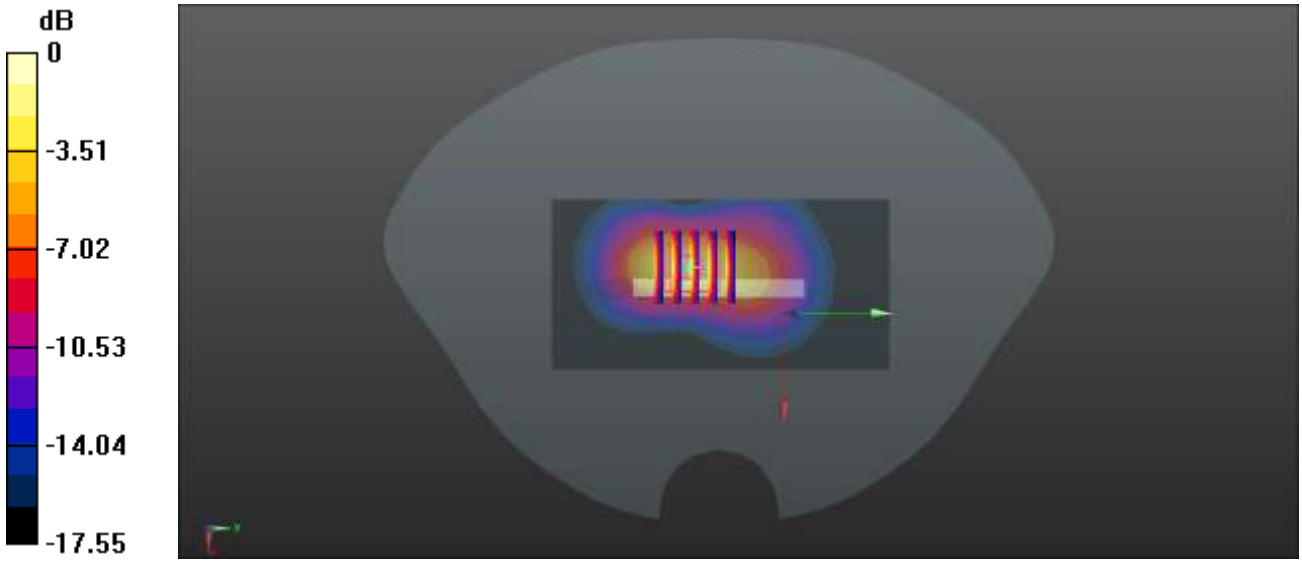
Ch1412/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.56 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.507 W/kg

SAR(1 g) = 0.275 W/kg; SAR(10 g) = 0.136 W/kg

Maximum value of SAR (measured) = 0.318 W/kg



0 dB = 0.318 W/kg

Meas.15 Body Plane with Bottom Edge 0mm on Middle Channel in WCDMA B4 mode With Antenna0

Date: 2021.03.05

Communication System Band: IV; Frequency: 1732.4 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.368 S/m; ε_r = 40.475; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.4

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.6, 8.6, 8.6); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch1412/Area Scan (51x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 3.22 W/kg

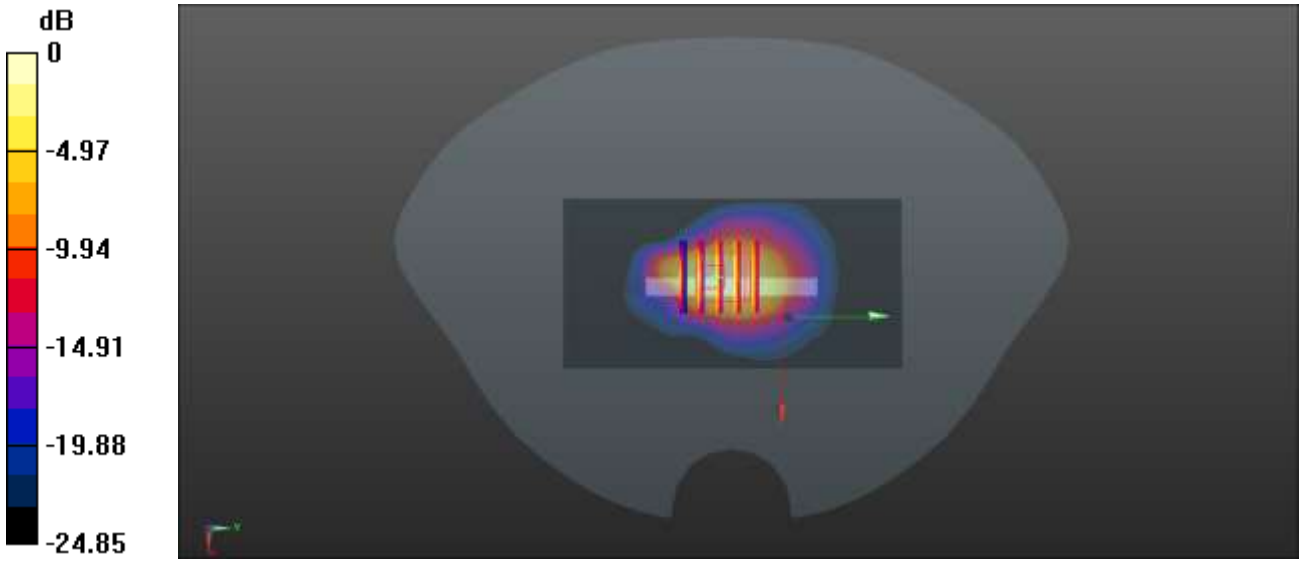
Ch1412/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 44.25 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 5.63 W/kg

SAR(1 g) = 2.39 W/kg; SAR(10 g) = 1.1 W/kg

Maximum value of SAR (measured) = 2.75 W/kg



0 dB = 2.75 W/kg

Meas.16 Right Head with Cheek on Middle Channel in WCDMA B5 mode With Antenna1

Date: 2021.02.25

Communication System Band: V; Frequency: 836.4 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.891 S/m; ε_r = 41.79; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.8 Liquid Temperature:21.6

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.94, 9.94, 9.94); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Left 1402; Serial: TP1402
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch 4182/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.768 W/kg

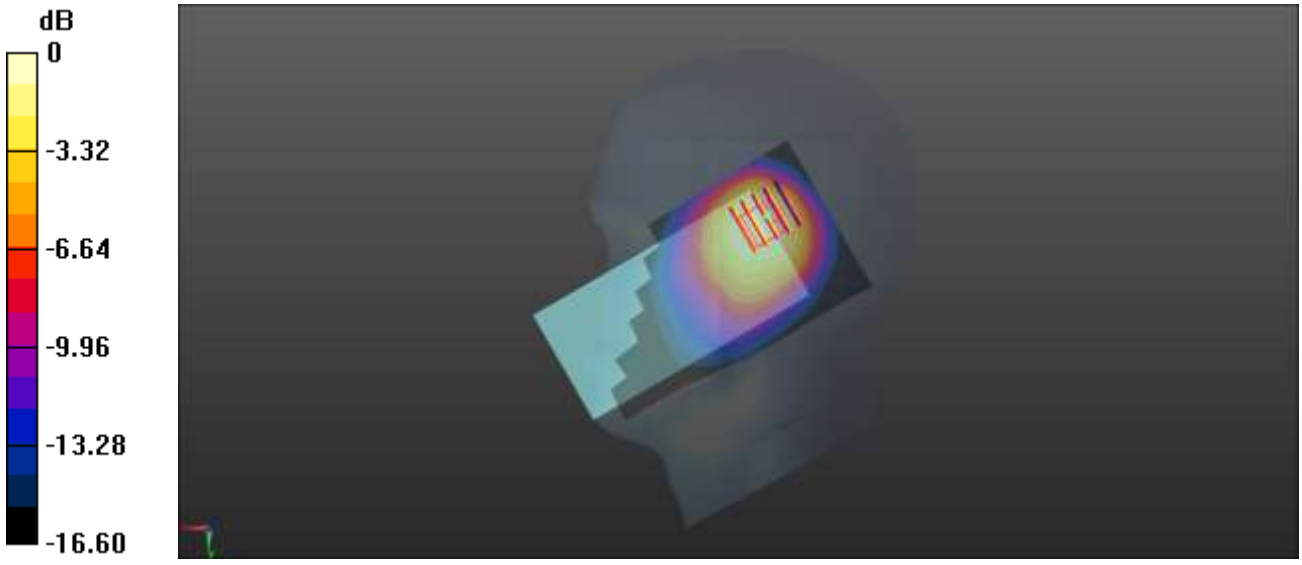
Ch 4182/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.41 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.18 W/kg

SAR(1 g) = 0.633 W/kg; SAR(10 g) = 0.403 W/kg

Maximum value of SAR (measured) = 0.656 W/kg



0 dB = 0.656 W/kg

Meas.17 Body Plane with Back Side 15mm on Low Channel in WCDMA B5 mode With Antenna1

Date: 2021.02.25

Communication System Band: V; Frequency: 836.4 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.891 S/m; ε_r = 41.79; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.8 Liquid Temperature:21.6

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.94, 9.94, 9.94); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Left 1402; Serial: TP1402
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch4182/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

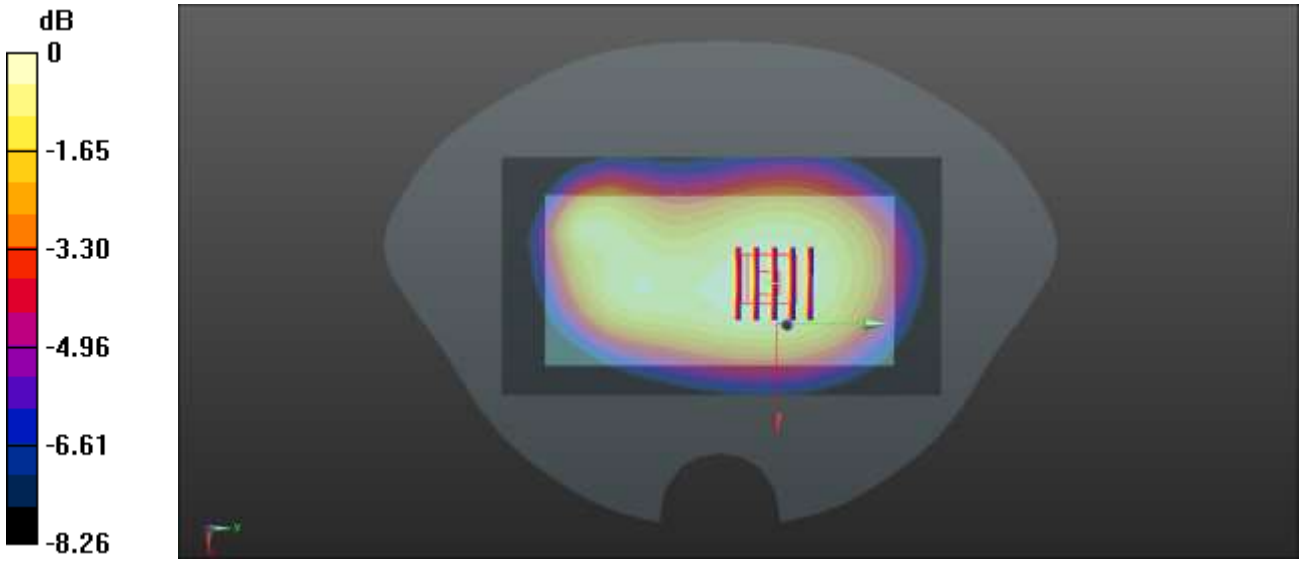
Ch4182/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.39 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.174 W/kg

SAR(1 g) = 0.137 W/kg; SAR(10 g) = 0.105 W/kg

Maximum value of SAR (measured) = 0.144 W/kg



0 dB = 0.144 W/kg

Meas.18 Body Plane with Back Side 10mm on Middle Channel in WCDMA B5 mode With Antenna1

Date: 2021.02.25

Communication System Band: V; Frequency: 836.4 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.891 S/m; ε_r = 41.79; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.8 Liquid Temperature:21.6

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.94, 9.94, 9.94); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Left 1402; Serial: TP1402
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch4182/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.168 W/kg

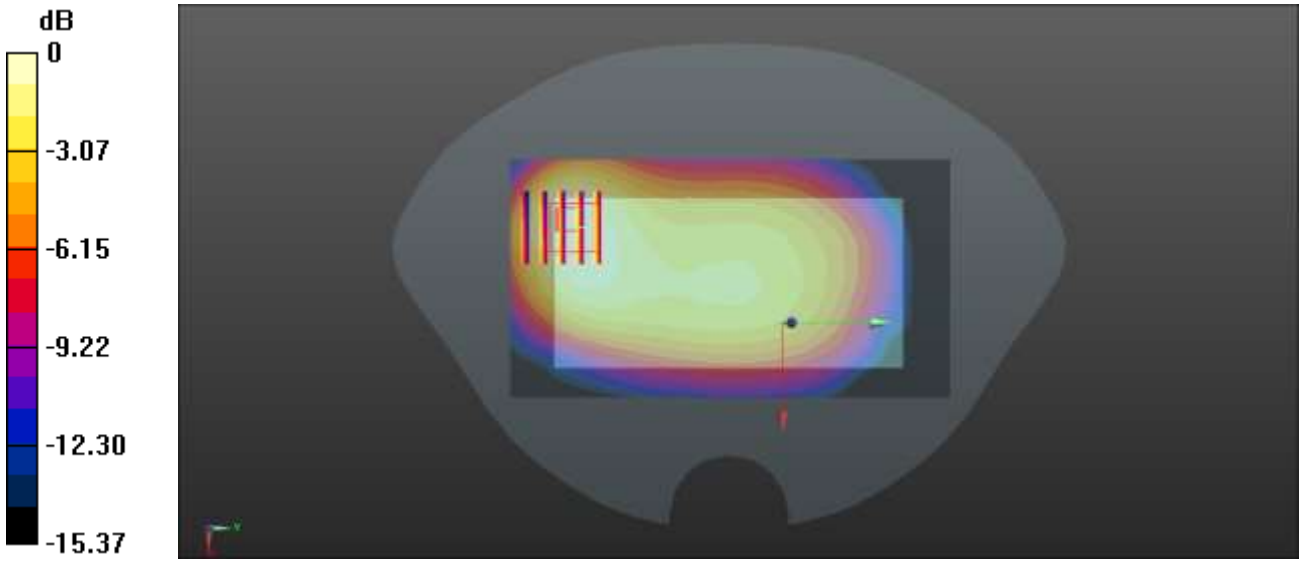
Ch4182/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.97 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.247 W/kg

SAR(1 g) = 0.150 W/kg; SAR(10 g) = 0.095 W/kg

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



0 dB = 0.157 W/kg

Meas.19 Right Head with Tilt on Low Channel in LTE B2 mode With Antenna1 and 50RB

Date: 2021.03.12

Communication System Band: Band 2; Frequency: 1860 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1860 MHz; σ = 1.398 S/m; ε_r = 40.147; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.4 Liquid Temperature:21.3

DASY4 Configuration:

- Probe: Probe: EX3DV4 - SN7510; ConvF(8.3, 8.3, 8.3); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch18700/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.00 W/kg

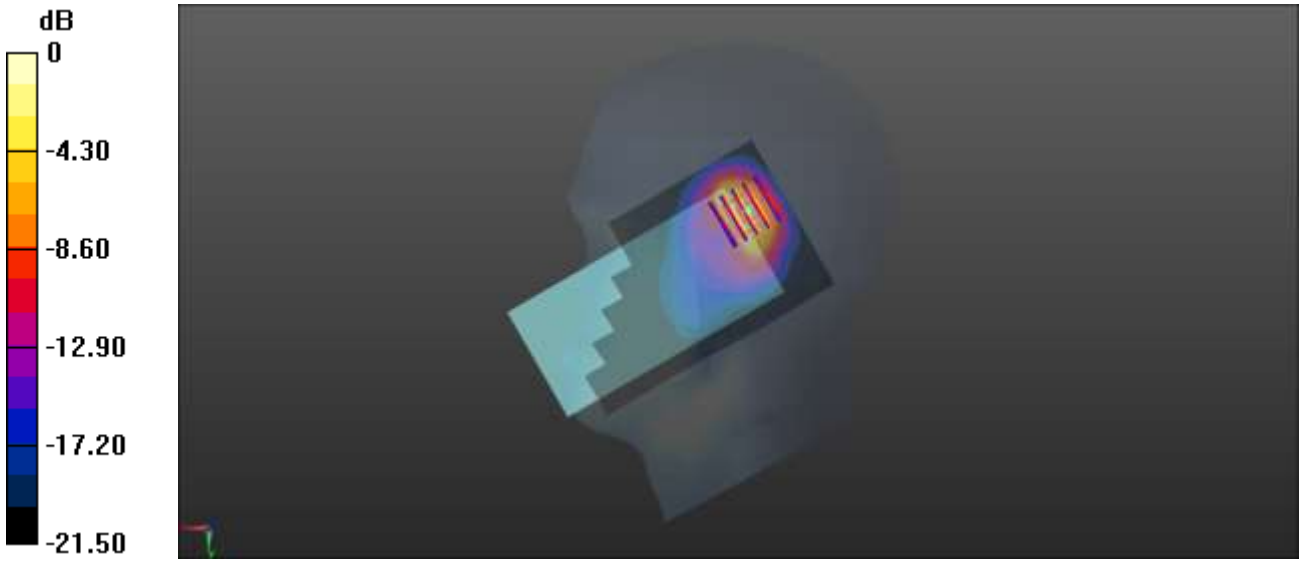
Ch18700/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.62 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.87 W/kg

SAR(1 g) = 0.881 W/kg; SAR(10 g) = 0.390 W/kg

Maximum value of SAR (measured) = 1.06 W/kg



0 dB = 1.06 W/kg

Meas.20 Body Plane with Back Side 15mm on Middle Channel in LTE B2 mode With Antenna1 and 1RB

Date: 2021.03.13

Communication System Band: Band 2; Frequency: 1880 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1880 MHz; σ = 1.4 S/m; ε_r = 40.161; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.7 Liquid Temperature:21.4

DASY4 Configuration:

- Probe: Probe: EX3DV4 - SN7510; ConvF(8.3, 8.3, 8.3); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch18900/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.317 W/kg

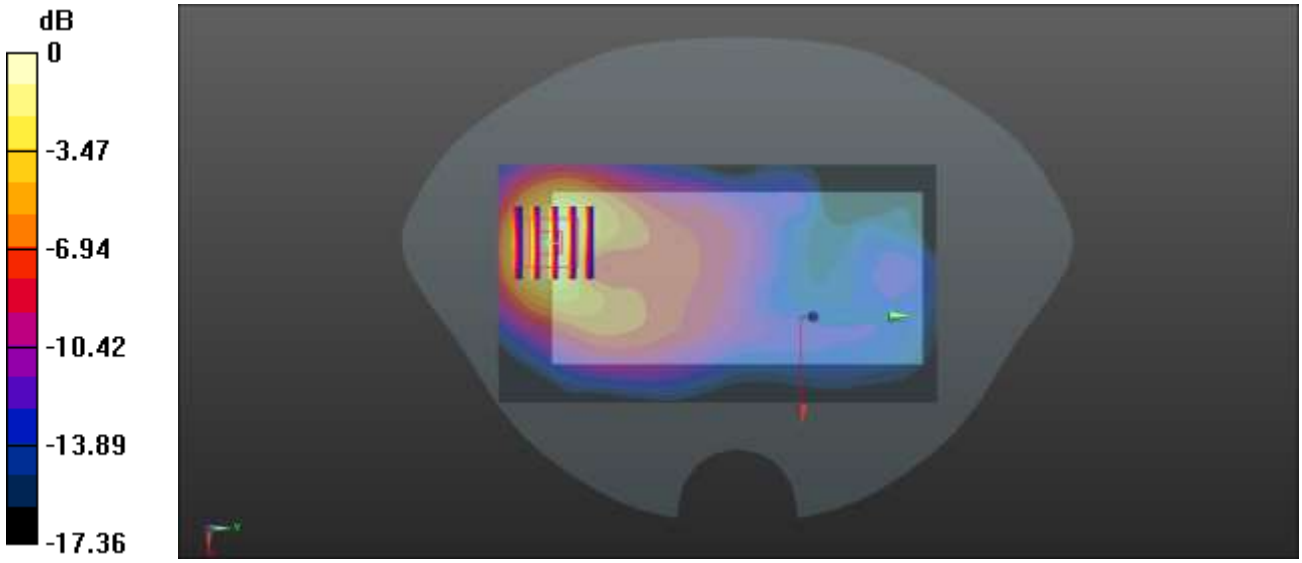
Ch18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.715 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.503 W/kg

SAR(1 g) = 0.294 W/kg; SAR(10 g) = 0.162 W/kg

Maximum value of SAR (measured) = 0.328 W/kg



0 dB = 0.328 W/kg

Meas.21 Body Plane with Top Edge 10mm on Middle Channel in LTE B2 mode With Antenna1 and 1RB

Date: 2021.03.13

Communication System Band: Band 2; Frequency: 1880 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1880 MHz; σ = 1.4 S/m; ε_r = 40.161; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.7 Liquid Temperature:21.4

DASY4 Configuration:

- Probe: Probe: EX3DV4 - SN7510; ConvF(8.3, 8.3, 8.3); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch18900/Area Scan (51x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.660 W/kg

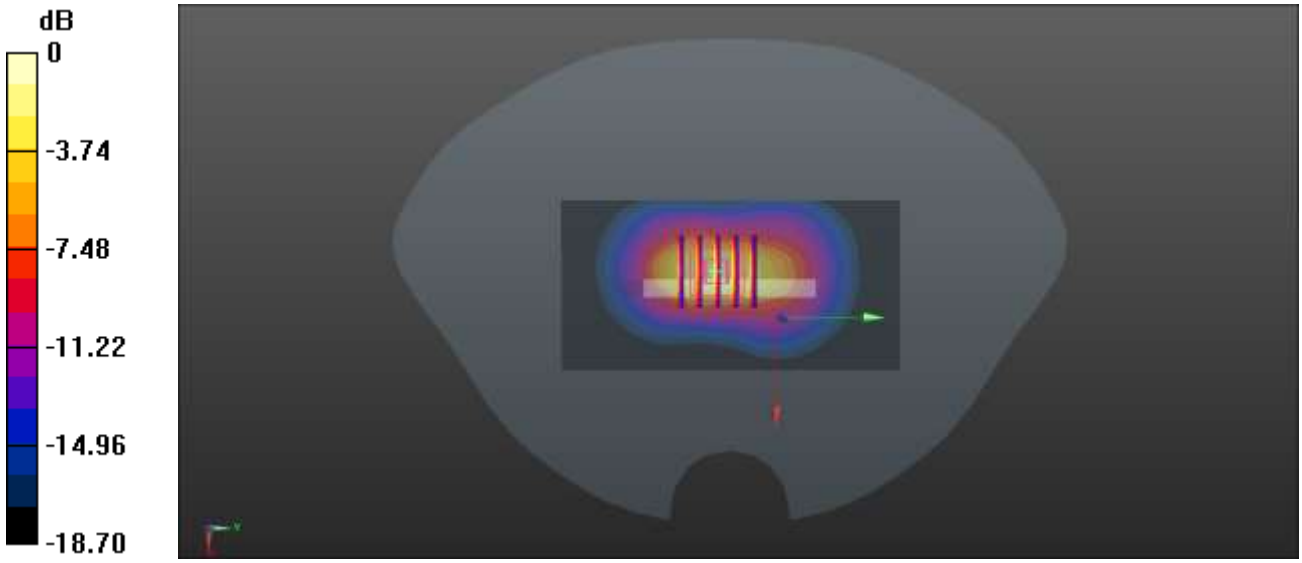
Ch18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.61 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.580 W/kg; SAR(10 g) = 0.282 W/kg

Maximum value of SAR (measured) = 0.668 W/kg



0 dB = 0.668 W/kg

Meas.22 Body Plane with Top Edge 0mm on Middle Channel in LTE B2 mode With Antenna1 and 1RB

Date: 2021.03.13

Communication System Band: Band 2; Frequency: 1880 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1880 MHz; σ = 1.4 S/m; ε_r = 40.161; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.7 Liquid Temperature:21.4

DASY4 Configuration:

- Probe: Probe: EX3DV4 - SN7510; ConvF(8.3, 8.3, 8.3); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch18900/Area Scan (51x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 4.65 W/kg

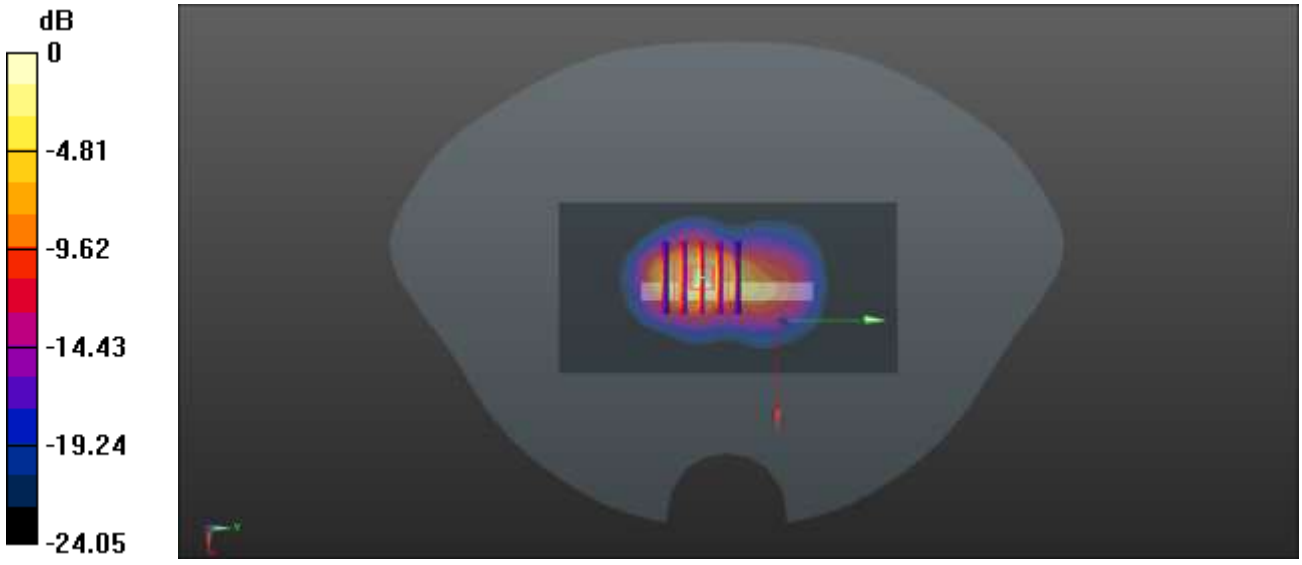
Ch18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 53.10 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 10.9 W/kg

SAR(1 g) = 4.38 W/kg; SAR(10 g) = 1.7 W/kg

Maximum value of SAR (measured) = 5.37 W/kg



0 dB = 5.37 W/kg

Meas.23 Right Head with Tilt on Middle Channel in LTE B4 mode With Antenna1 and 50RB

Date: 2021.03.08

Communication System Band: Band 4; Frequency: 1720 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1720 MHz; σ = 1.359 S/m; ε_r = 40.349; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.5 Liquid Temperature:21.5

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.6, 8.6, 8.6); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch20050/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.636 W/kg

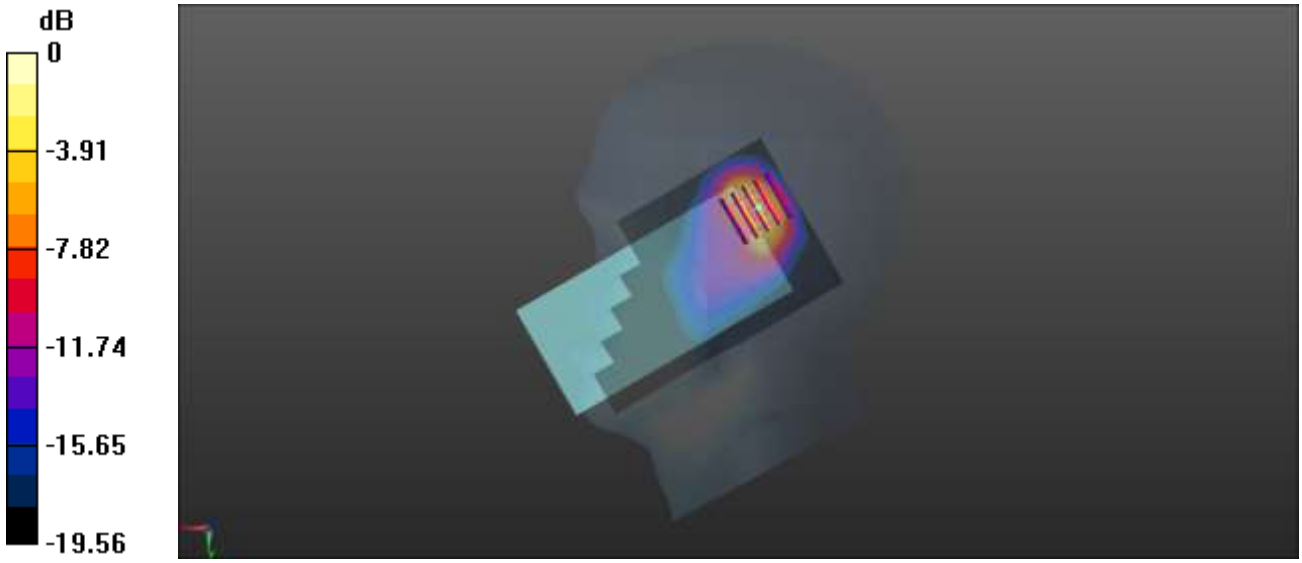
Ch20050/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.65 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.20 W/kg

SAR(1 g) = 0.584 W/kg; SAR(10 g) = 0.268 W/kg

Maximum value of SAR (measured) = 0.696 W/kg



0 dB = 0.696 W/kg

Meas.24 Body Plane with Back Side 15mm on Middle Channel in LTE B4 mode With Antenna1 and 1RB

Date: 2021.03.09

Communication System Band: Band 4; Frequency: 1732.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.364 S/m; ε_r = 40.354; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.5

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.6, 8.6, 8.6); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch20175/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.245 W/kg

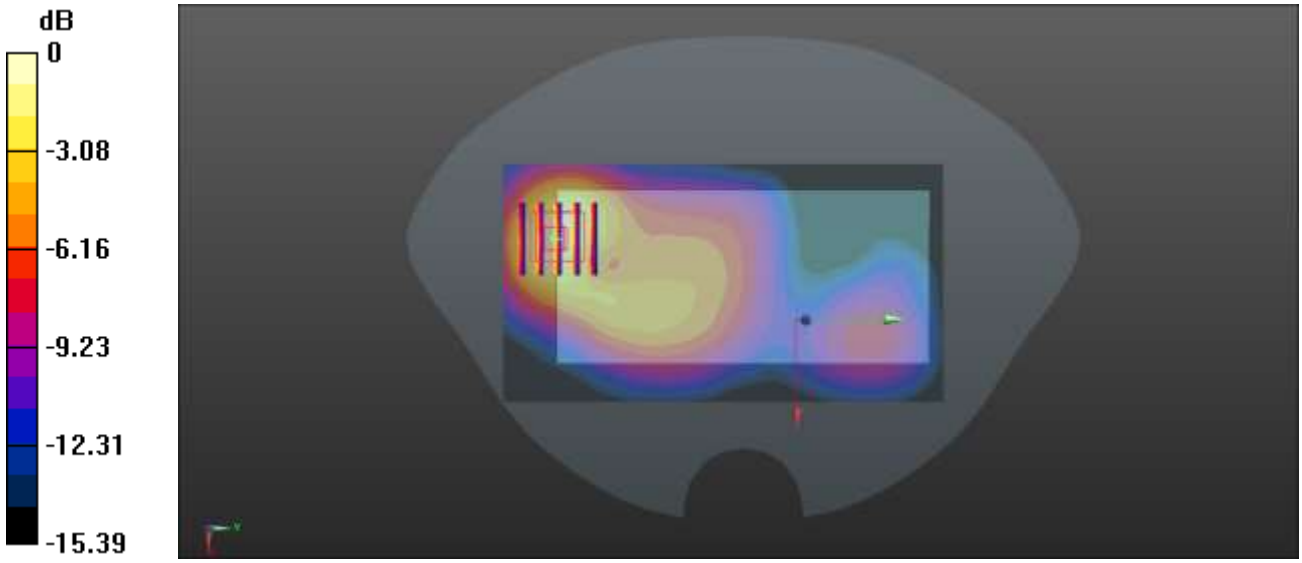
Ch20175/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.787 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.374 W/kg

SAR(1 g) = 0.226 W/kg; SAR(10 g) = 0.129 W/kg

Maximum value of SAR (measured) = 0.252 W/kg



0 dB = 0.252 W/kg

Meas.25 Body Plane with Top Edge 10mm on Middle Channel in LTE B4 mode With Antenna1 and 1RB

Date: 2021.03.09

Communication System Band: Band 4; Frequency: 1732.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.364 S/m; ε_r = 40.354; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.5

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.6, 8.6, 8.6); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch20175/Area Scan (51x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.461 W/kg

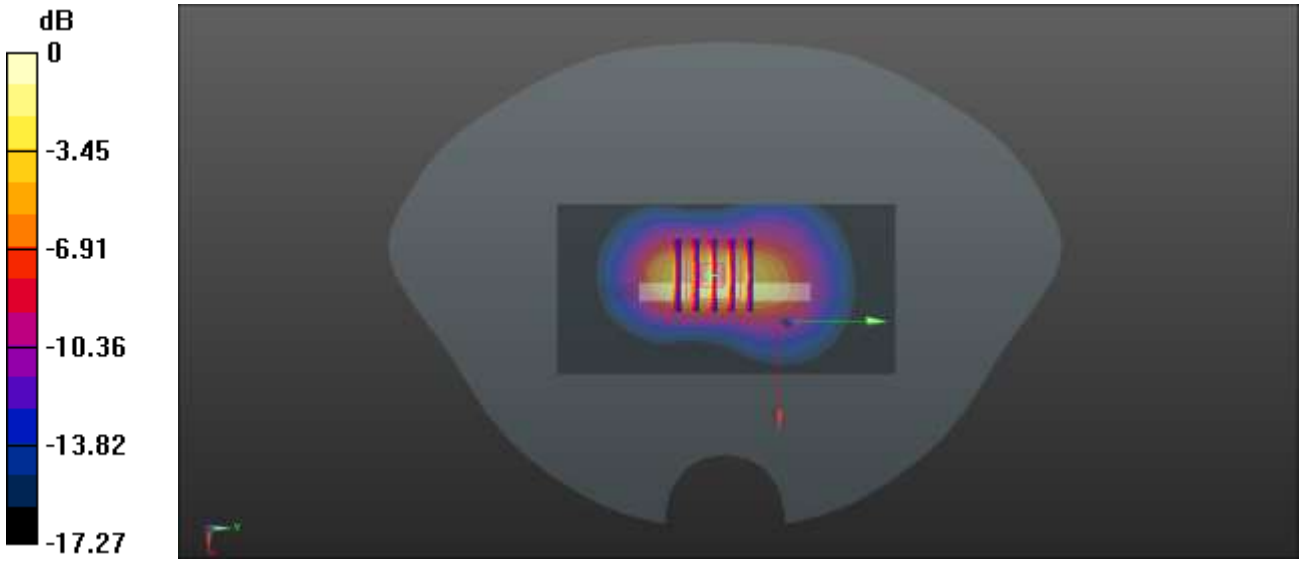
Ch20175/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.17 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.748 W/kg

SAR(1 g) = 0.407 W/kg; SAR(10 g) = 0.202 W/kg

Maximum value of SAR (measured) = 0.470 W/kg



0 dB = 0.470 W/kg

Meas.26 Body Plane with Bottom Edge 0mm on Low Channel in LTE B4 mode With Antenna0 and 1RB

Date: 2021.03.09

Communication System Band: Band 4; Frequency: 1720 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1720 MHz; σ = 1.352 S/m; ε_r = 40.474; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.5

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.6, 8.6, 8.6); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch20050/Area Scan (51x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 4.04 W/kg

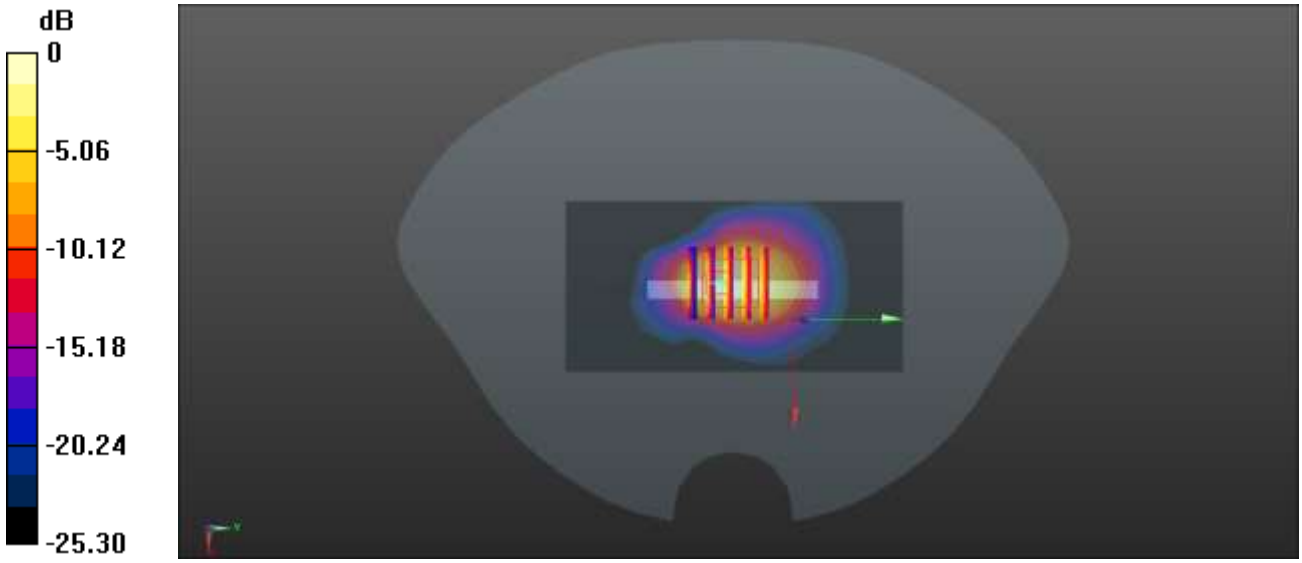
Ch20050/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 50.28 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 7.62 W/kg

SAR(1 g) = 3.22 W/kg; SAR(10 g) = 1.48 W/kg

Maximum value of SAR (measured) = 3.76 W/kg



0 dB = 3.76 W/kg

Meas.27 Right Head with Cheek on Middle Channel in LTE B5 mode With Antennaand 50RB

Date: 2021.02.26

Communication System Band: Band 5; Frequency: 836.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.889 S/m; ε_r = 41.579; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.8 Liquid Temperature:21.6

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.94, 9.94, 9.94); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Left 1402; Serial: TP1402
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch 20525/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.07 W/kg

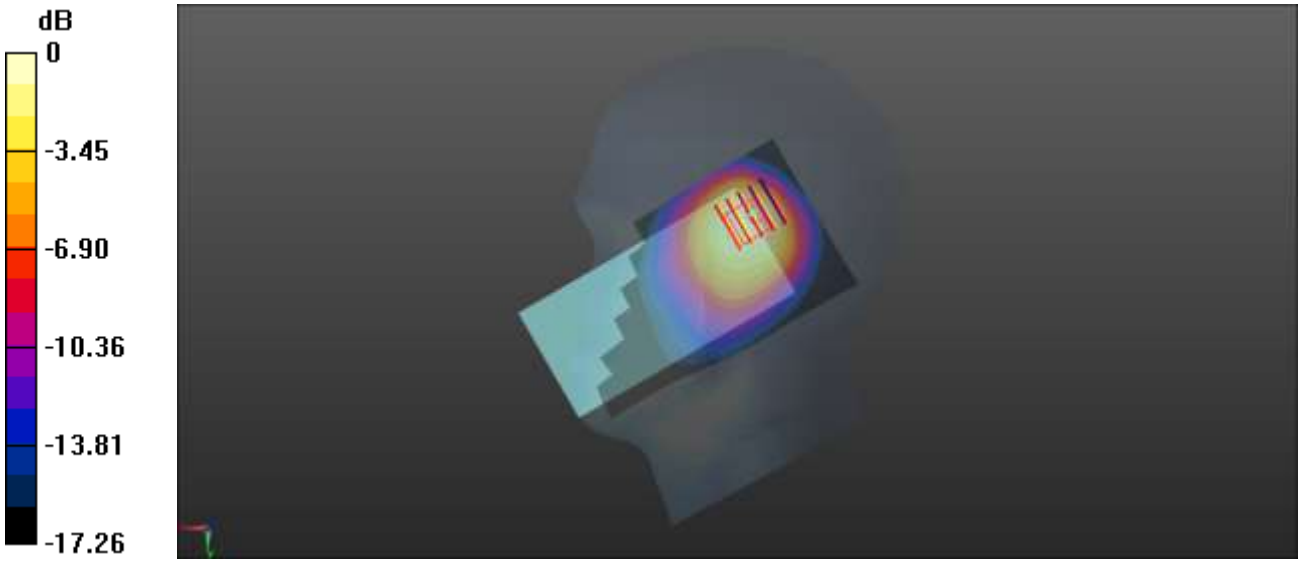
Ch 20525/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.94 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.70 W/kg

SAR(1 g) = 0.885 W/kg; SAR(10 g) = 0.528 W/kg

Maximum value of SAR (measured) = 0.878 W/kg



0 dB = 0.878 W/kg

Meas.28 Body Plane with Back Side 15mm on High Channel in LTE B5 mode With Antenna1 and 1RB

Date: 2021.02.27

Communication System Band: Band 5; Frequency: 844 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 844 MHz; σ = 0.886 S/m; ε_r = 41.371; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.3

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.94, 9.94, 9.94); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Left 1402; Serial: TP1402
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch20600/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.135 W/kg

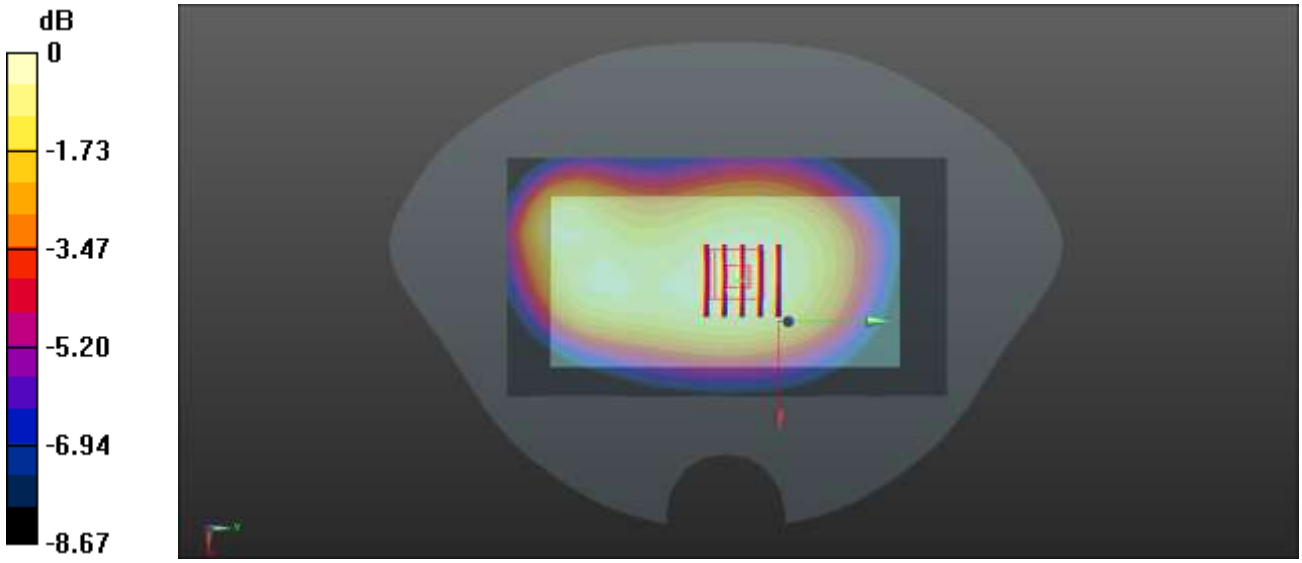
Ch20600/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.56 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.162 W/kg

SAR(1 g) = 0.128 W/kg; SAR(10 g) = 0.098 W/kg

Maximum value of SAR (measured) = 0.134 W/kg



0 dB = 0.134 W/kg

Meas.29 Body Plane with Back Side 10mm on High Channel in LTE B5 mode With Antenna1 and 1RB

Date: 2021.02.27

Communication System Band: Band 5; Frequency: 844 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 844 MHz; σ = 0.886 S/m; ε_r = 41.371; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.3

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.94, 9.94, 9.94); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Left 1402; Serial: TP1402
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch20600/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

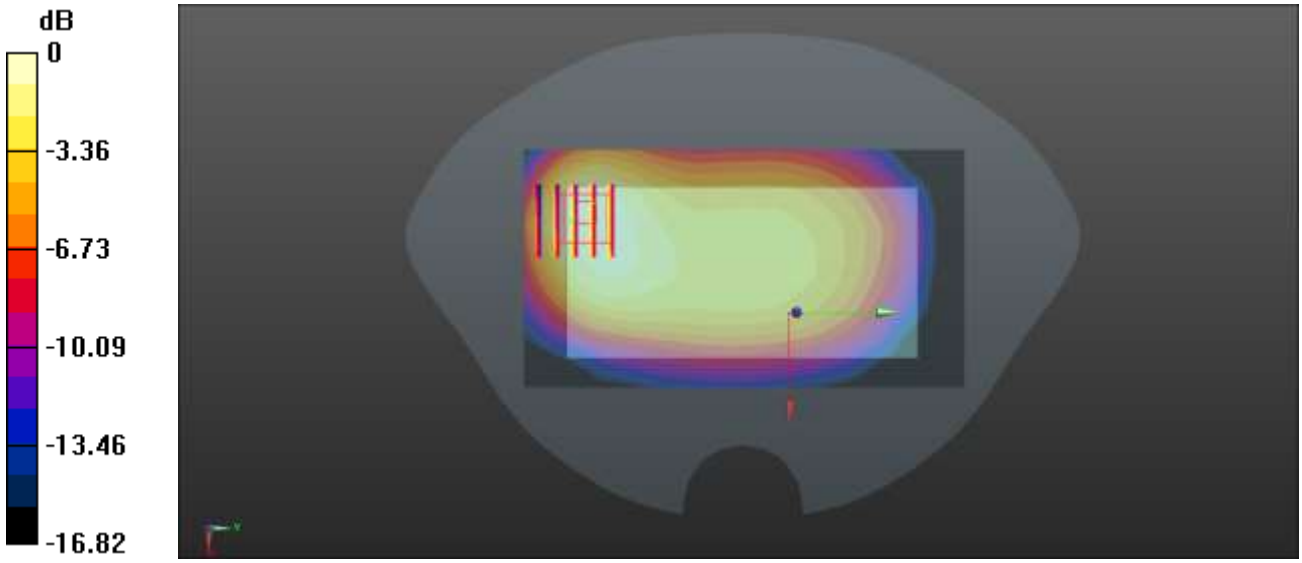
Ch20600/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.18 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.412 W/kg

SAR(1 g) = 0.248 W/kg; SAR(10 g) = 0.154 W/kg

Maximum value of SAR (measured) = 0.260 W/kg



0 dB = 0.260 W/kg

Meas.30 Right Head with Tilt on Middle Channel in LTE B7 mode With Antenna1 and 1RB

Date: 2021.03.02

Communication System Band: Band 7; Frequency: 2535 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 2535 MHz; σ = 1.905 S/m; ε_r = 39.596; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.5 Liquid Temperature:21.6

DASY4 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.5, 7.5, 7.5); Calibrated: 2020.08.07;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch21100/Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.801 W/kg

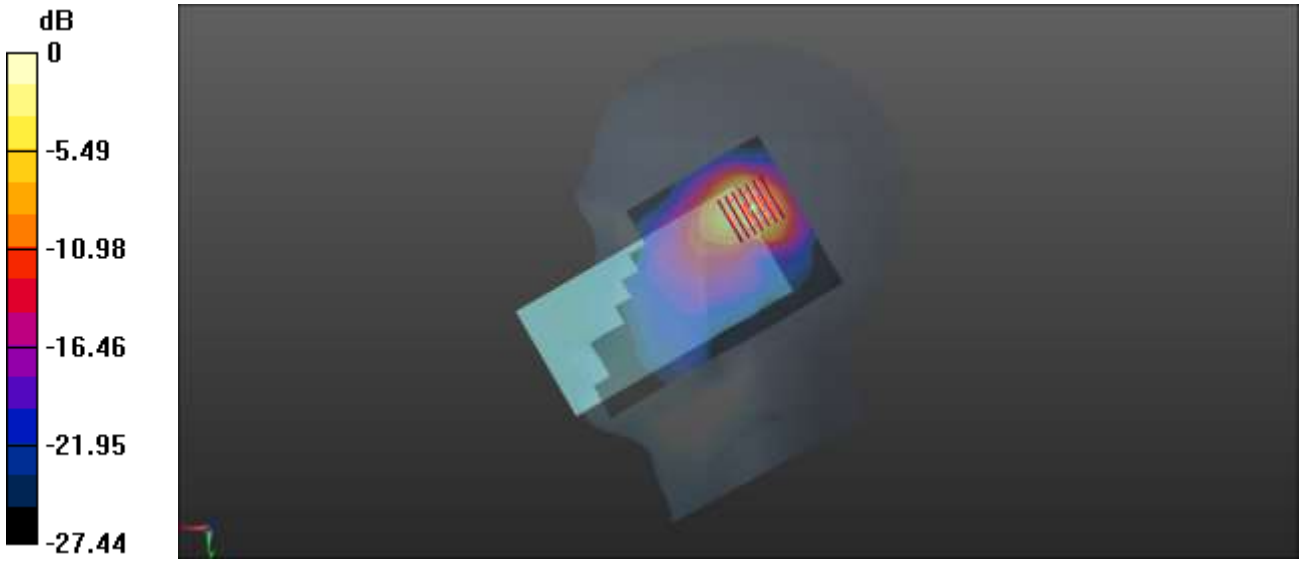
Ch21100/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.614 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 1.75 W/kg

SAR(1 g) = 0.659 W/kg; SAR(10 g) = 0.257 W/kg

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



0 dB = 0.782 W/kg

Meas.31 Body Plane with Back Side 15mm on Low Channel in LTE B7 mode With Antenna1 and 1RB

Date: 2021.03.03

Communication System Band: Band 7; Frequency: 2510 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 2510 MHz; σ = 1.874 S/m; ε_r = 39.629; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.7 Liquid Temperature:21.6

DASY4 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.5, 7.5, 7.5); Calibrated: 2020.08.07;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch20850/Area Scan (81x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.165 W/kg

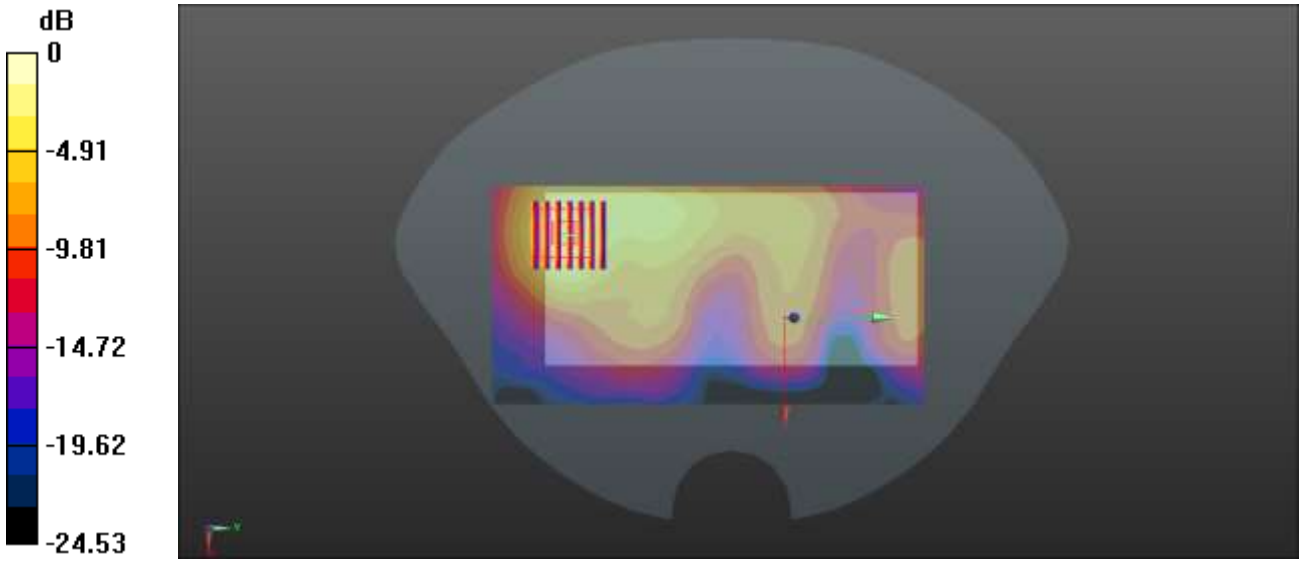
Ch20850/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.353 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.295 W/kg

SAR(1 g) = 0.148 W/kg; SAR(10 g) = 0.072 W/kg

Maximum value of SAR (measured) = 0.167 W/kg



0 dB = 0.167 W/kg

Meas.32 Body Plane with Top Edge 10mm on High Channel in LTE B7 mode With Antenna1 and 1RB

Date: 2021.03.03

Communication System Band: Band 7; Frequency: 2560 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 2560 MHz; σ = 1.937 S/m; ε_r = 39.372; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.7 Liquid Temperature:21.6

DASY4 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.5, 7.5, 7.5); Calibrated: 2020.08.07;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch21350/Area Scan (61x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.321 W/kg

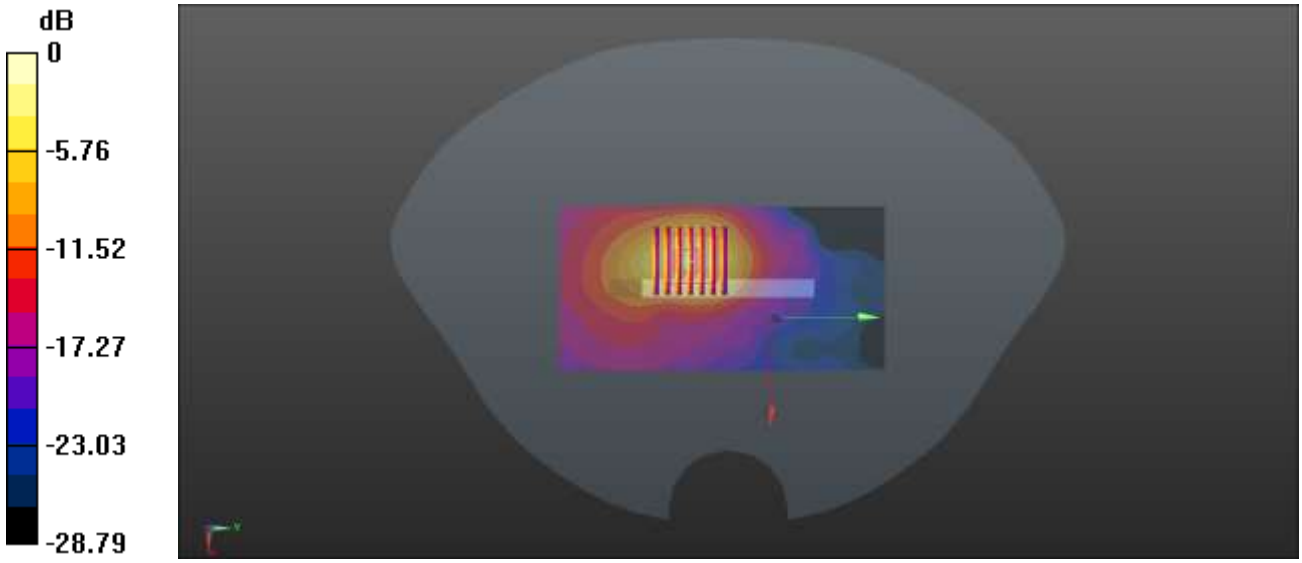
Ch21350/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.631 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.614 W/kg

SAR(1 g) = 0.274 W/kg; SAR(10 g) = 0.115 W/kg

Maximum value of SAR (measured) = 0.319 W/kg



0 dB = 0.319 W/kg

Meas.33 Right Head with Cheek on High Channel in LTE B12 mode With Antenna1 and 1RB

Date: 2021.03.04

Communication System Band: Band 12; Frequency: 711 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 711 MHz; σ = 0.883 S/m; ε_r = 42.132; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.6 Liquid Temperature:21.7

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.31, 10.31, 10.31); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Left 1402; Serial: TP1402
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch 23130/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.671 W/kg

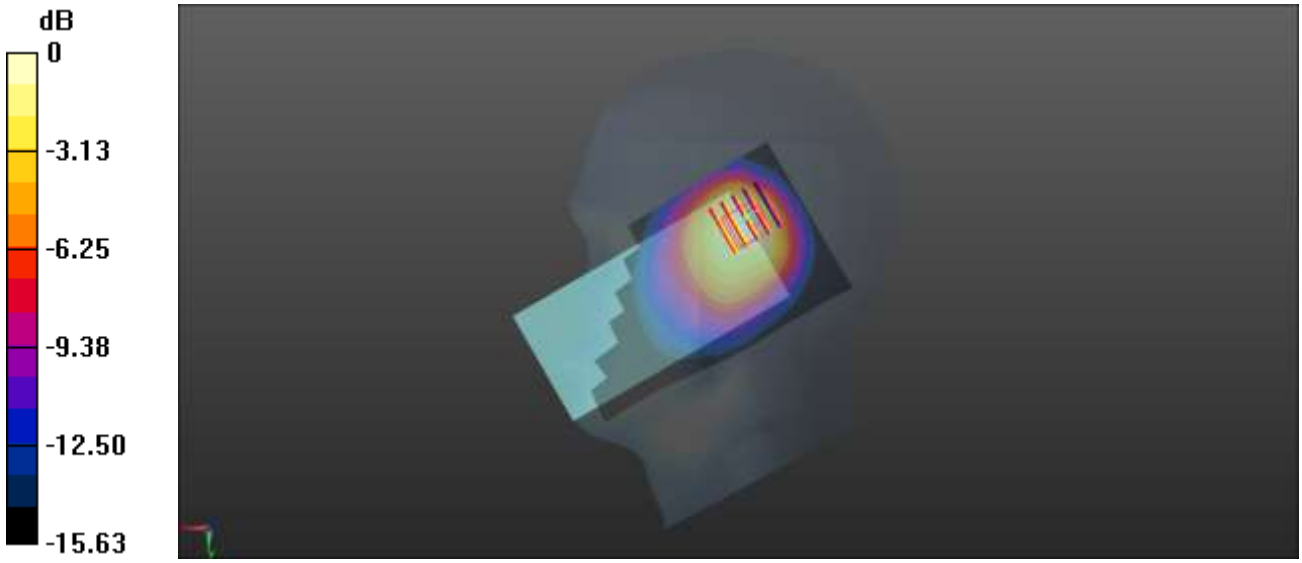
Ch 23130/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.24 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.16 W/kg

SAR(1 g) = 0.561 W/kg; SAR(10 g) = 0.348 W/kg

Maximum value of SAR (measured) = 0.587 W/kg



0 dB = 0.587 W/kg

Meas.34 Body Plane with Back Side 15mm on High Channel in LTE B12 mode With Antenna1 and 1RB

Date: 2021.03.04

Communication System Band: Band 12; Frequency: 711 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 711 MHz; σ = 0.883 S/m; ε_r = 42.132; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.7

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.31, 10.31, 10.31); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Left 1402; Serial: TP1402
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch23130/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.178 W/kg

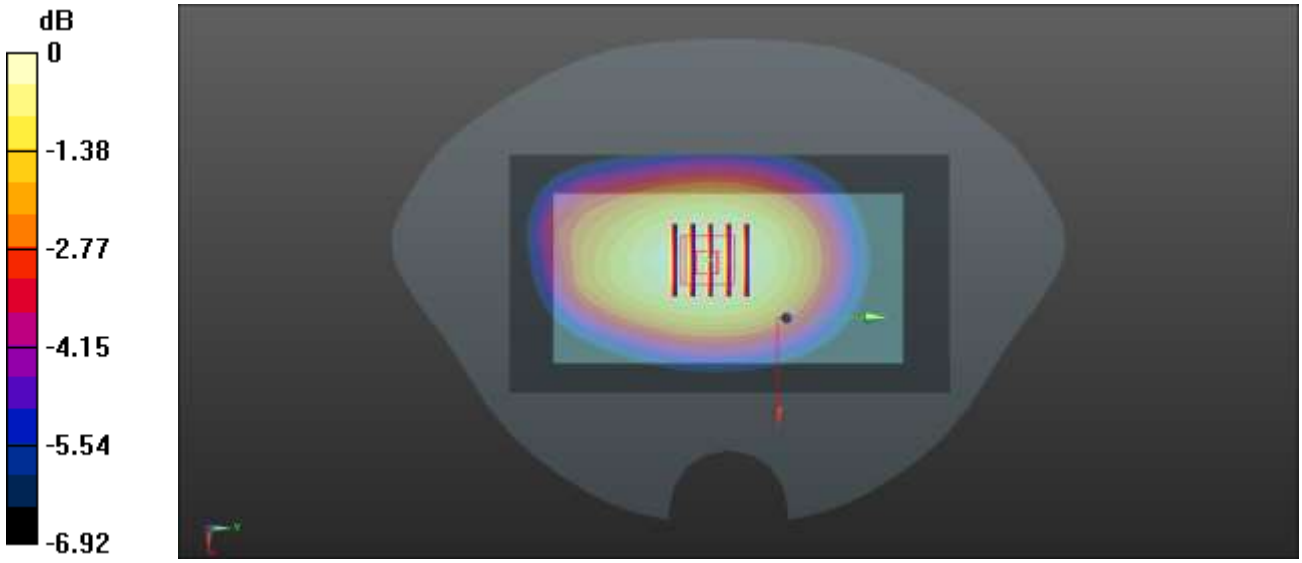
Ch23130/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.24 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.203 W/kg

SAR(1 g) = 0.171 W/kg; SAR(10 g) = 0.136 W/kg

Maximum value of SAR (measured) = 0.178 W/kg



0 dB = 0.178 W/kg

Meas.35 Body Plane with Back Side 10mm on High Channel in LTE B12 mode With Antenna1 and 1RB

Date: 2021.03.04

Communication System Band: Band 12; Frequency: 711 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 711 MHz; σ = 0.883 S/m; ε_r = 42.132; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.7

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.31, 10.31, 10.31); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Left 1402; Serial: TP1402
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch23130/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.174 W/kg

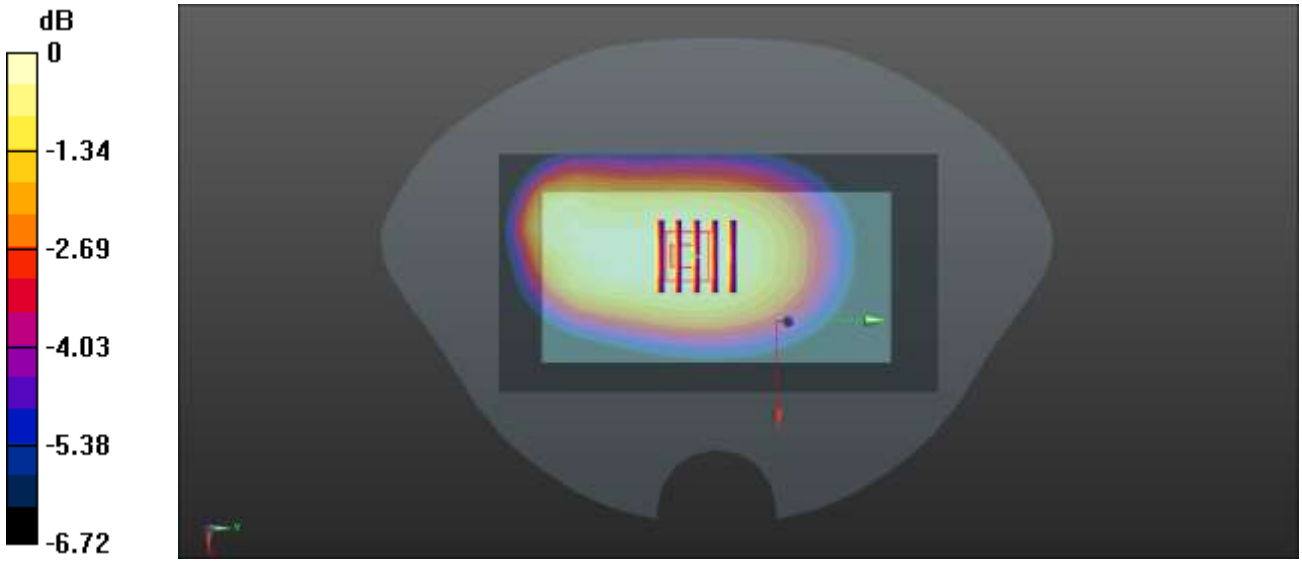
Ch23130/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.89 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.198 W/kg

SAR(1 g) = 0.168 W/kg; SAR(10 g) = 0.135 W/kg

Maximum value of SAR (measured) = 0.174 W/kg



0 dB = 0.174 W/kg

Meas.36 Right Head with Cheek on Low Channel in LTE B26 mode With Antenna1 and 1RB

Date: 2021.02.28

Communication System Band: Band 26; Frequency: 821.5 MHz;Duty Cycle: 1:1

Medium parameters used (extrapolated): f = 821.5 MHz; σ = 0.883 S/m; ε_r = 41.829; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.6 Liquid Temperature:21.4

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.94, 9.94, 9.94); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Left 1402; Serial: TP1402
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch 26765/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.06 W/kg

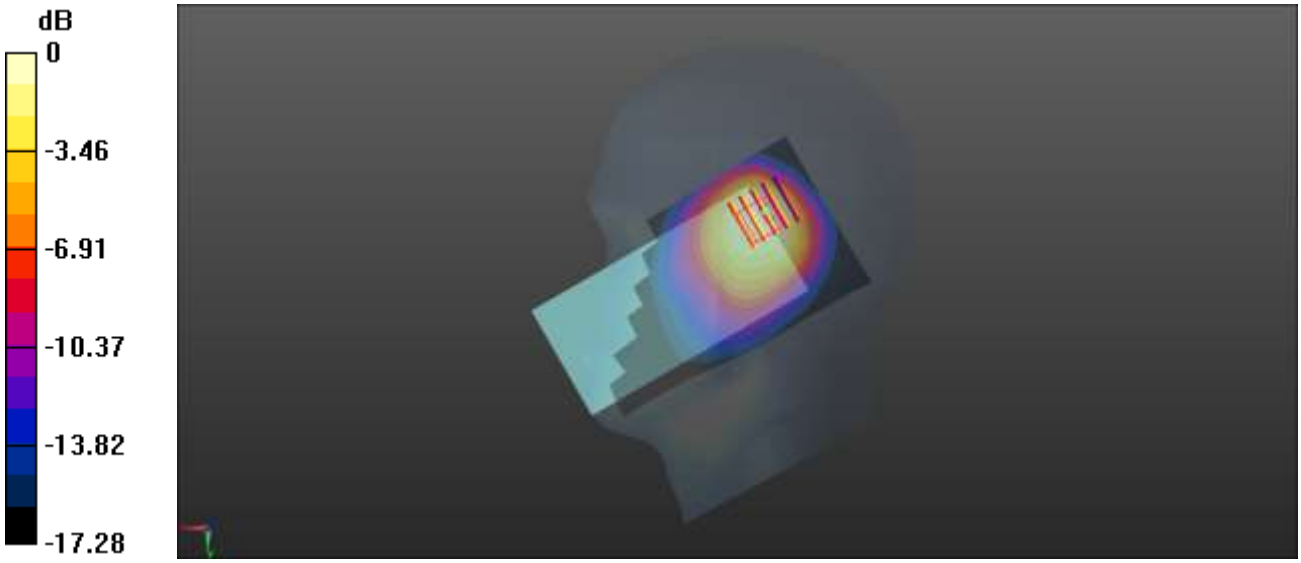
Ch 26765/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.96 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.66 W/kg

SAR(1 g) = 0.846 W/kg; SAR(10 g) = 0.526 W/kg

Maximum value of SAR (measured) = 0.872 W/kg



0 dB = 0.872 W/kg

Meas.37 Body Plane with Back Side 15mm on Middle Channel in LTE B26 mode With Antenna1 and 1RB

Date: 2021.03.01

Communication System Band: Band 26; Frequency: 831.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 831.5 MHz; σ = 0.889 S/m; ε_r = 41.648; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.2 Liquid Temperature:21.3

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.94, 9.94, 9.94); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Left 1402; Serial: TP1402
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch26865/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.163 W/kg

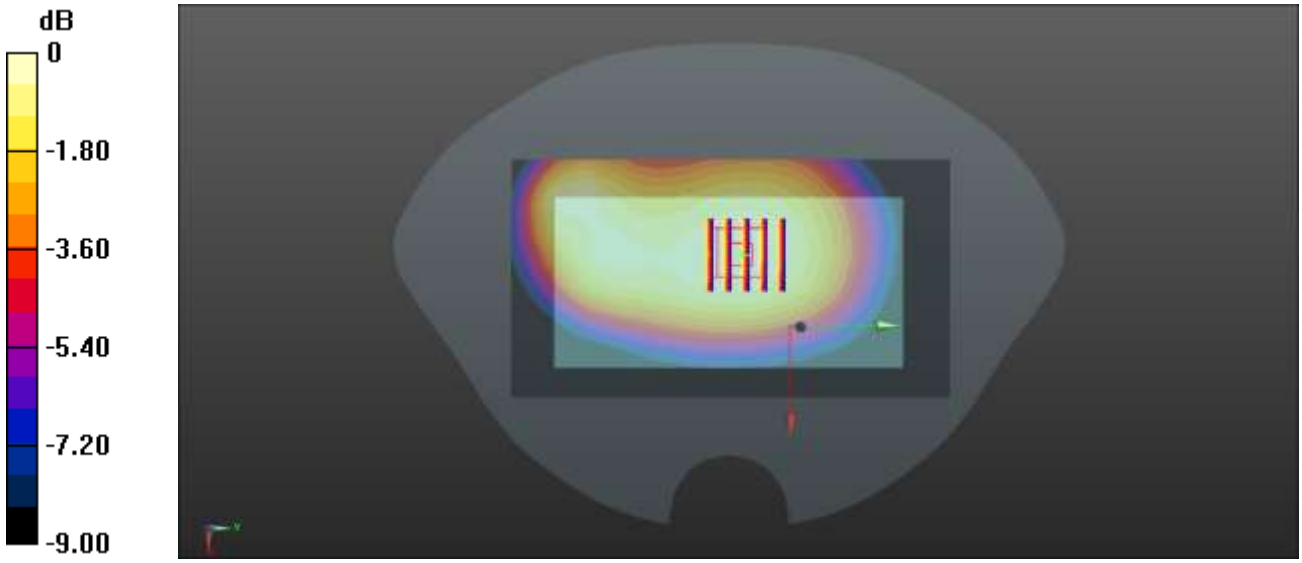
Ch26865/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.05 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.196 W/kg

SAR(1 g) = 0.155 W/kg; SAR(10 g) = 0.117 W/kg

Maximum value of SAR (measured) = 0.162 W/kg



0 dB = 0.162 W/kg

Meas.38 Body Plane with Back Side 10mm on Middle Channel in LTE B26 mode With Antenna1 and 1RB

Date: 2021.03.01

Communication System Band: Band 26; Frequency: 831.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 831.5 MHz; σ = 0.889 S/m; ε_r = 41.648; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.2 Liquid Temperature:21.3

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.94, 9.94, 9.94); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Left 1402; Serial: TP1402
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch26865 2/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

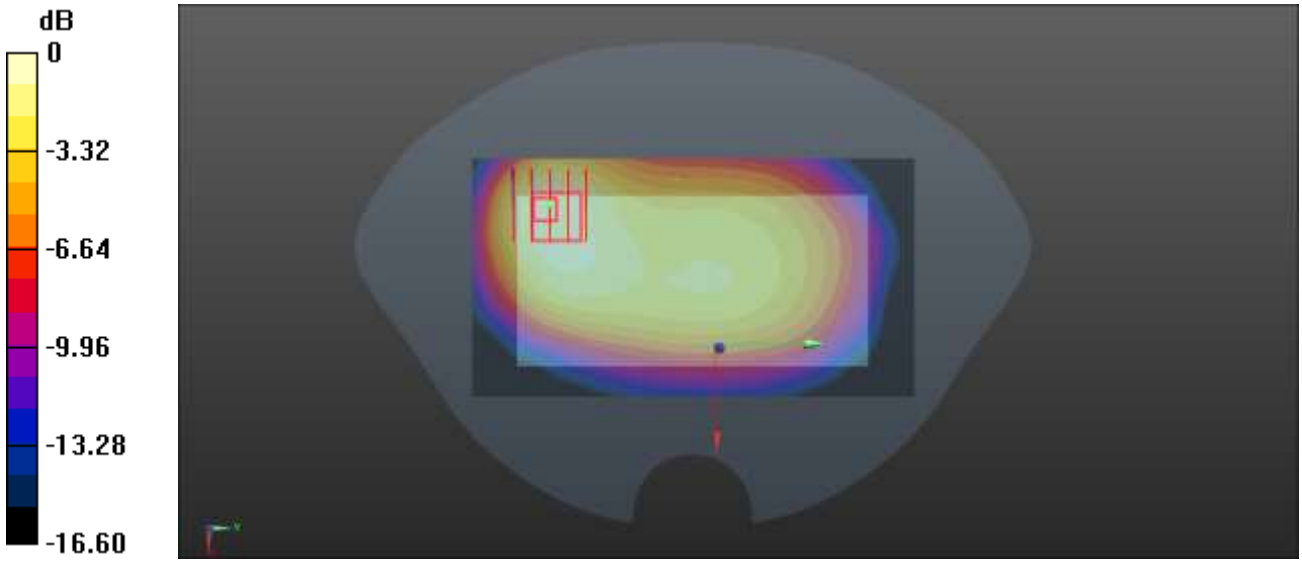
Ch26865 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.23 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.392 W/kg

SAR(1 g) = 0.234 W/kg; SAR(10 g) = 0.148 W/kg

Maximum value of SAR (measured) = 0.251 W/kg



0 dB = 0.251 W/kg

Meas.39 Right Head with Tilt on Low Channel in LTE B66 mode With Antenna1 and 1RB

Date: 2021.03.06

Communication System Band: Band66; Frequency: 1720 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1720 MHz; σ = 1.362 S/m; ε_r = 40.424; ρ = 1000 kg/m^3

Phantom section: Right Section

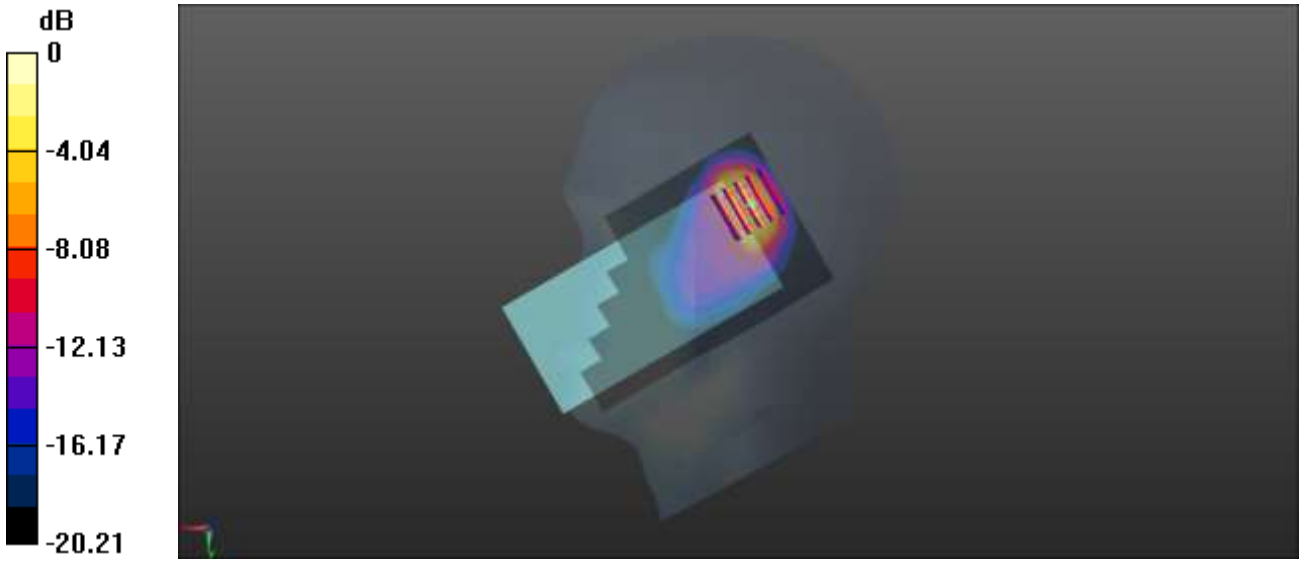
Ambient Temperature:22.7 Liquid Temperature:21.4

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.6, 8.6, 8.6); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch132072/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.625 W/kg

Ch132072/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.46 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 1.25 W/kg
SAR(1 g) = 0.585 W/kg; SAR(10 g) = 0.265 W/kg
Maximum value of SAR (measured) = 0.690 W/kg



0 dB = 0.690 W/kg

Meas.40 Body Plane with Back Side 15mm on Low Channel in LTE B66 mode With Antenna0 and 1RB

Date: 2021.03.07

Communication System Band: Band66; Frequency: 1720 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1720 MHz; σ = 1.355 S/m; ε_r = 40.549; ρ = 1000 kg/m^3

Phantom section: Flat Section

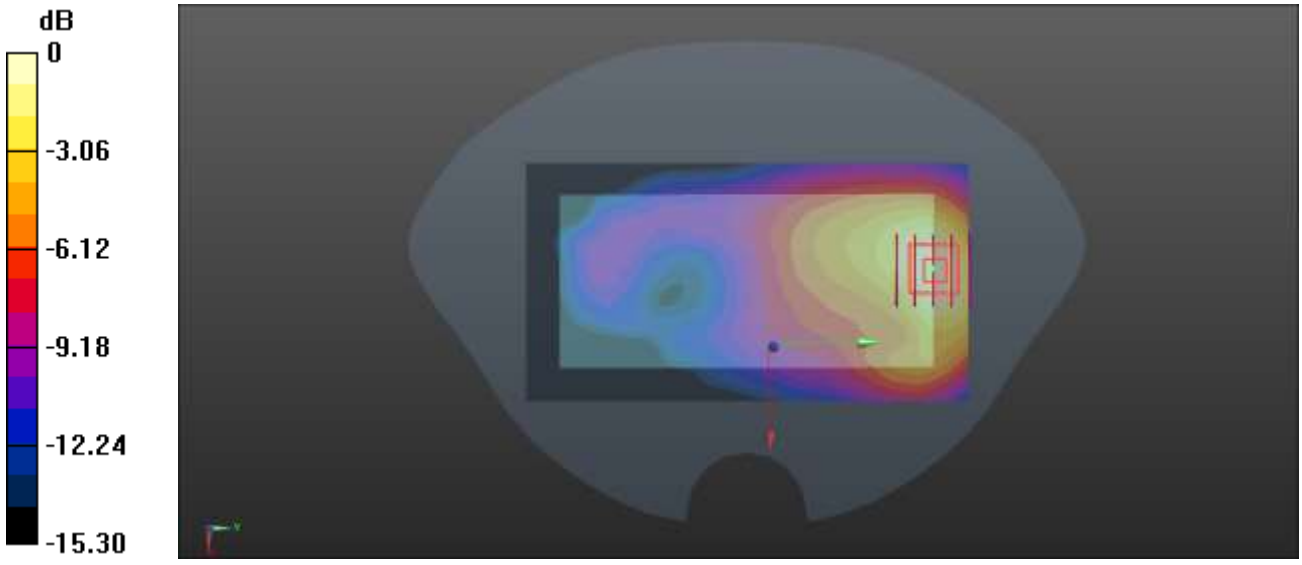
Ambient Temperature:22.5 Liquid Temperature:21.4

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.6, 8.6, 8.6); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch132072/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.211 W/kg

Ch132072/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.171 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.304 W/kg
SAR(1 g) = 0.194 W/kg; SAR(10 g) = 0.118 W/kg
Maximum value of SAR (measured) = 0.210 W/kg



0 dB = 0.210 W/kg

Meas.41 Body Plane with Top Edge 10mm on Low Channel in LTE B66 mode With Antenna1 and 1RB

Date: 2021.03.07

Communication System Band: Band66; Frequency: 1720 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1720 MHz; σ = 1.355 S/m; ε_r = 40.549; ρ = 1000 kg/m^3

Phantom section: Flat Section

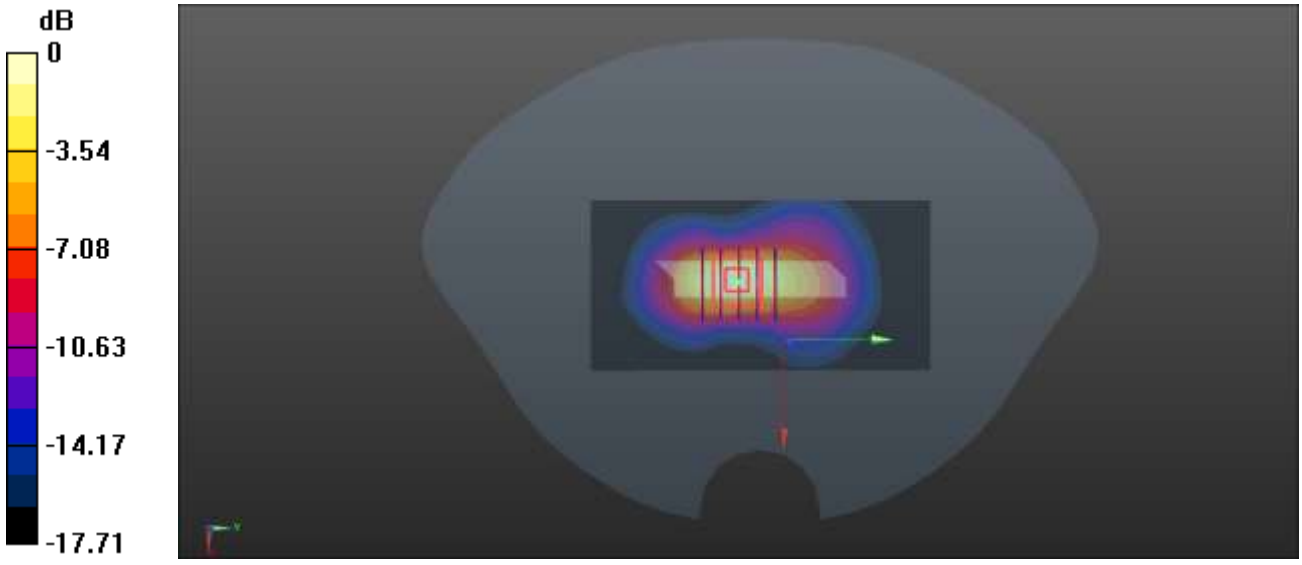
Ambient Temperature:22.5 Liquid Temperature:21.4

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.6, 8.6, 8.6); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch132072/Area Scan (51x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.457 W/kg

Ch132072/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 16.34 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.711 W/kg
SAR(1 g) = 0.384 W/kg; SAR(10 g) = 0.188 W/kg
Maximum value of SAR (measured) = 0.444 W/kg



0 dB = 0.444 W/kg

Meas.42 Body Plane with Bottom Edge 0mm on Low Channel in LTE B66 mode With Antenna0 and 1RB

Date: 2021.03.07

Communication System Band: Band66; Frequency: 1720 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1720 MHz; σ = 1.355 S/m; ε_r = 40.549; ρ = 1000 kg/m^3

Phantom section: Flat Section

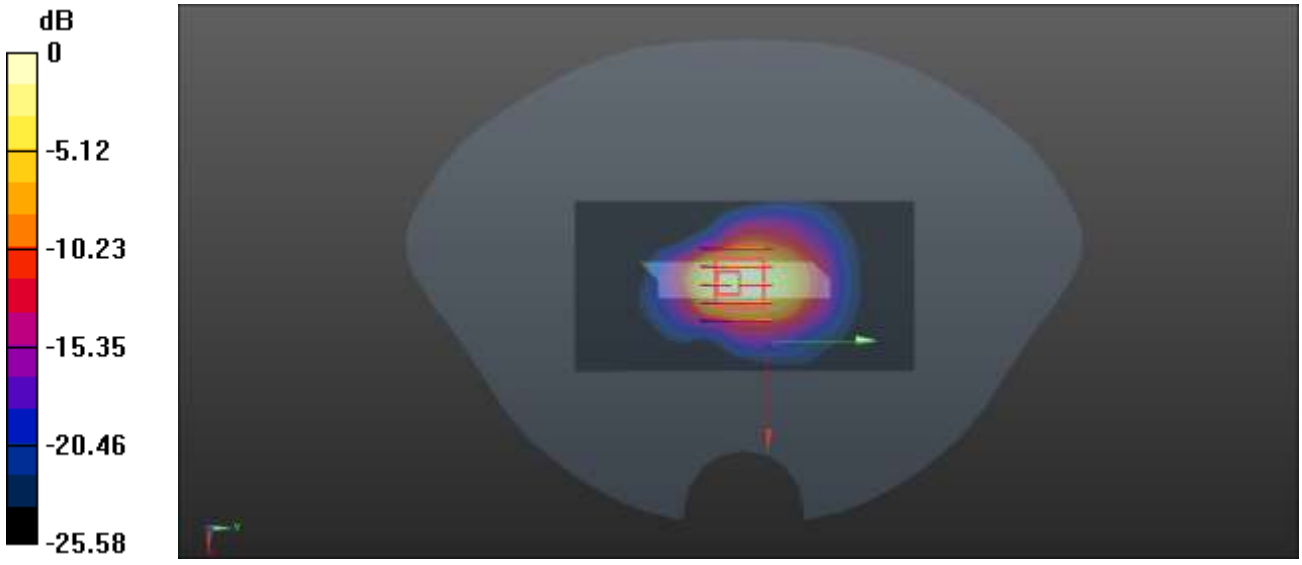
Ambient Temperature:22.5 Liquid Temperature:21.4

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.6, 8.6, 8.6); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch132072/Area Scan (51x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 3.90 W/kg

Ch132072/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 50.58 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 7.51 W/kg
SAR(1 g) = 3.14 W/kg; SAR(10 g) = 1.44 W/kg
Maximum value of SAR (measured) = 3.69 W/kg



0 dB = 3.69 W/kg

Meas.43 Right Head with Tilt on Middle Channel in LTE B38 mode With Antenna1 and 50RB

Date: 2021.03.10

Communication System Band: Band 38; Frequency: 2595 MHz;Duty Cycle: 1:1.58

Medium parameters used: f = 2595 MHz; σ = 1.94 S/m; ε_r = 39.077; ρ = 1000 kg/m^3

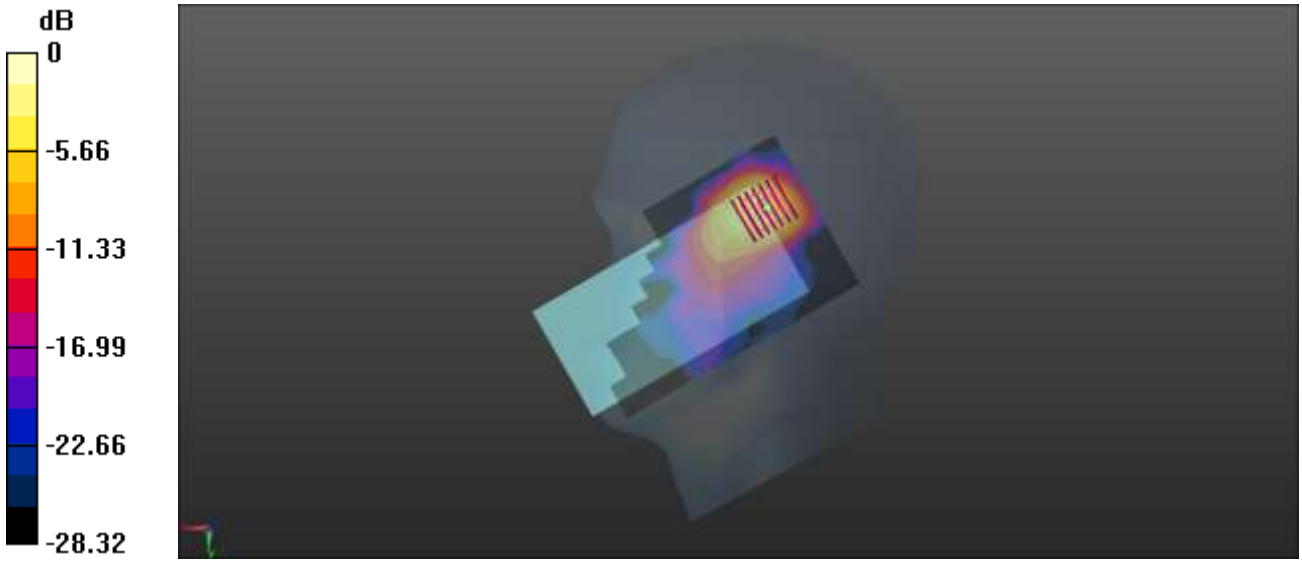
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.5, 7.5, 7.5); Calibrated: 2020.08.07;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch38000/Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.317 W/kg

Ch38000/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.551 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.717 W/kg
SAR(1 g) = 0.251 W/kg; SAR(10 g) = 0.099 W/kg
Maximum value of SAR (measured) = 0.278 W/kg



0 dB = 0.278 W/kg

Meas.44 Body Plane with Back Side 15mm on Low Channel in LTE B38 mode With Antenna0 and 1RB

Date: 2021.03.11

Communication System Band: Band 38; Frequency: 2580 MHz;Duty Cycle: 1:1.58

Medium parameters used (interpolated): f = 2580 MHz; σ = 1.926 S/m; ε_r = 39.055; ρ = 1000 kg/m^3

Phantom section: Flat Section

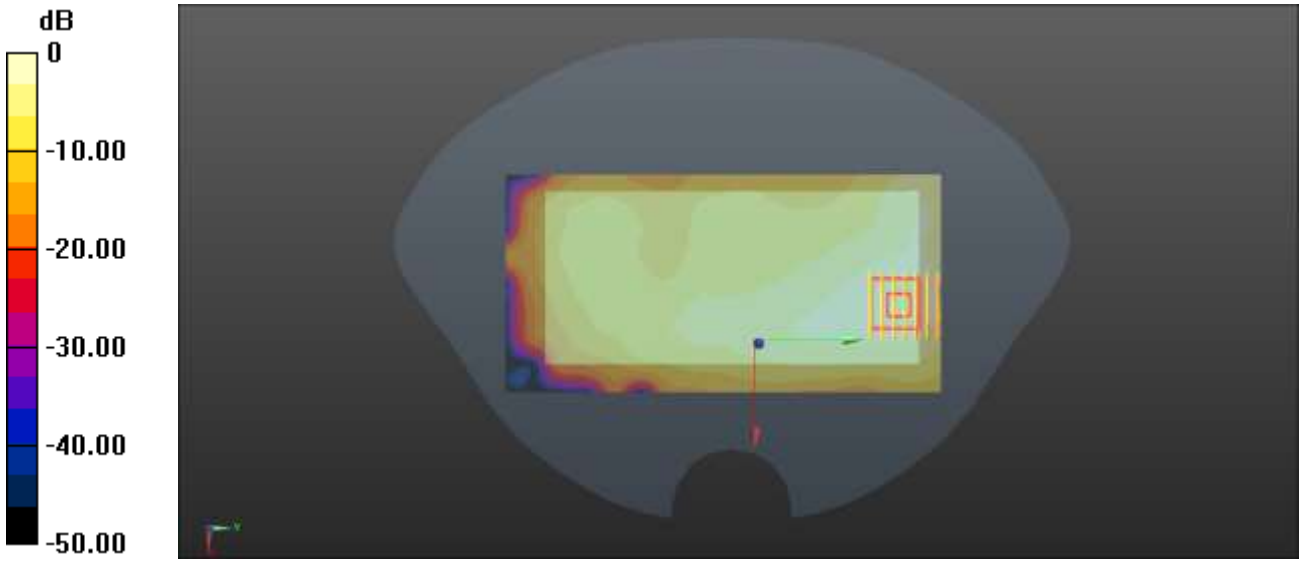
Ambient Temperature:22.7 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.5, 7.5, 7.5); Calibrated: 2020.08.07;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch37850/Area Scan (81x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0882 W/kg

Ch37850/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.943 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 0.154 W/kg
SAR(1 g) = 0.082 W/kg; SAR(10 g) = 0.044 W/kg
Maximum value of SAR (measured) = 0.0896 W/kg



0 dB = 0.0896 W/kg

Meas.45 Body Plane with Back Side 10mm on Low Channel in LTE B38 mode With Antenna0 and 1RB

Date: 2021.03.11

Communication System Band: Band 38; Frequency: 2580 MHz;Duty Cycle: 1:1.58

Medium parameters used (interpolated): f = 2580 MHz; σ = 1.926 S/m; ε_r = 39.055; ρ = 1000 kg/m^3

Phantom section: Flat Section

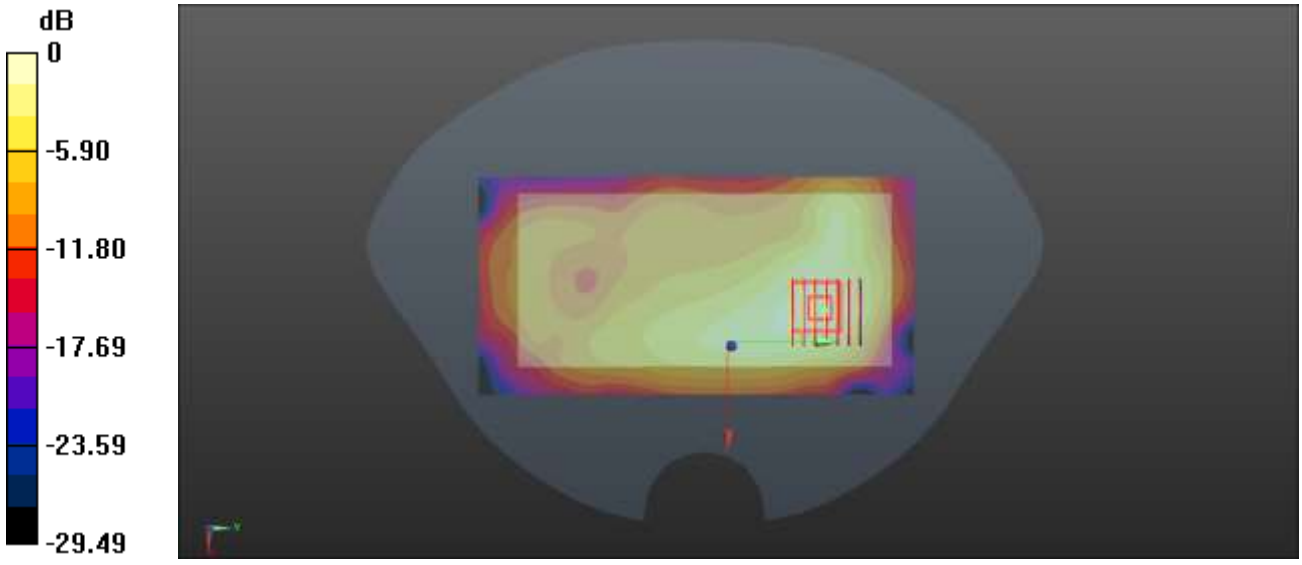
Ambient Temperature:22.7 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.5, 7.5, 7.5); Calibrated: 2020.08.07;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch37850/Area Scan (81x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.105 W/kg

Ch37850/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.174 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.179 W/kg
SAR(1 g) = 0.094 W/kg; SAR(10 g) = 0.048 W/kg
Maximum value of SAR (measured) = 0.103 W/kg



0 dB = 0.103 W/kg

Meas.46 Right Head with Tilt on Middle Channel in LTE B41 mode With Antenna1 and 1RB

Date: 2021.03.08

Communication System Band: Band 41; Frequency: 2593 MHz;Duty Cycle: 1:1.58

Medium parameters used (interpolated): f = 2593 MHz; σ = 1.951 S/m; ε_r = 38.372; ρ = 1000 kg/m^3

Phantom section: Right Section

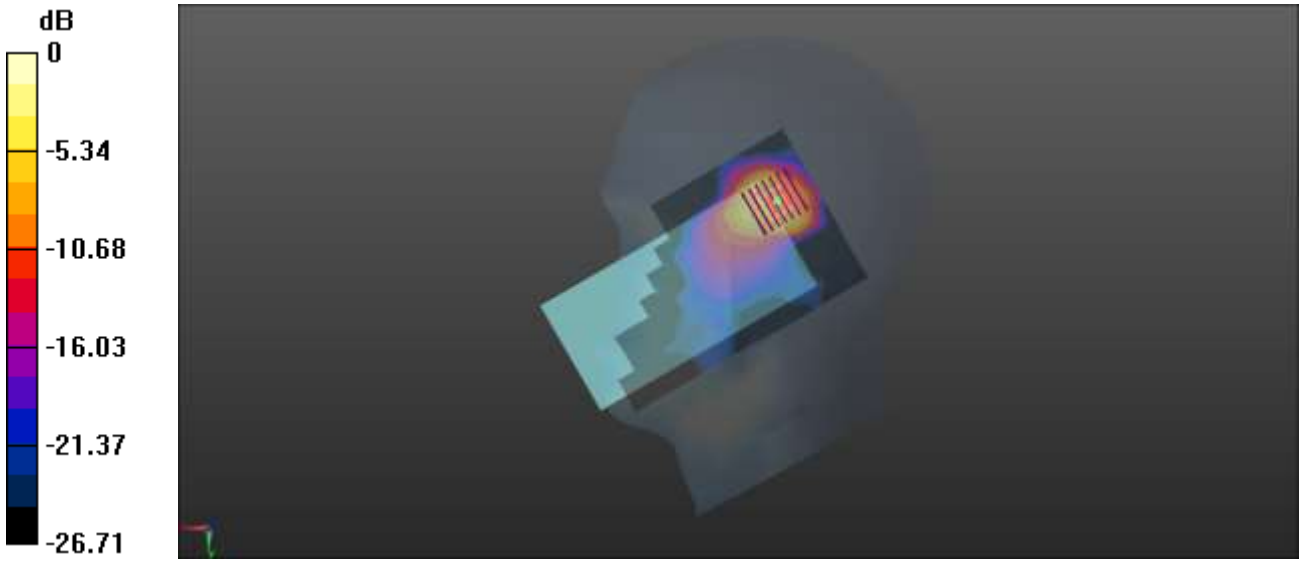
Ambient Temperature:22.5 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.5, 7.5, 7.5); Calibrated: 2020.08.07;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch40620/Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.230 W/kg

Ch40620/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.141 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 0.514 W/kg
SAR(1 g) = 0.191 W/kg; SAR(10 g) = 0.073 W/kg
Maximum value of SAR (measured) = 0.225 W/kg



0 dB = 0.225 W/kg

Meas.47 Body Plane with Back Side 15mm on Middle Channel in LTE B41 mode With Antenna0 and 50RB

Date: 2021.03.08

Communication System Band: Band 41; Frequency: 2593 MHz;Duty Cycle: 1:1.58

Medium parameters used (interpolated): f = 2593 MHz; σ = 1.951 S/m; ε_r = 38.372; ρ = 1000 kg/m^3

Phantom section: Flat Section

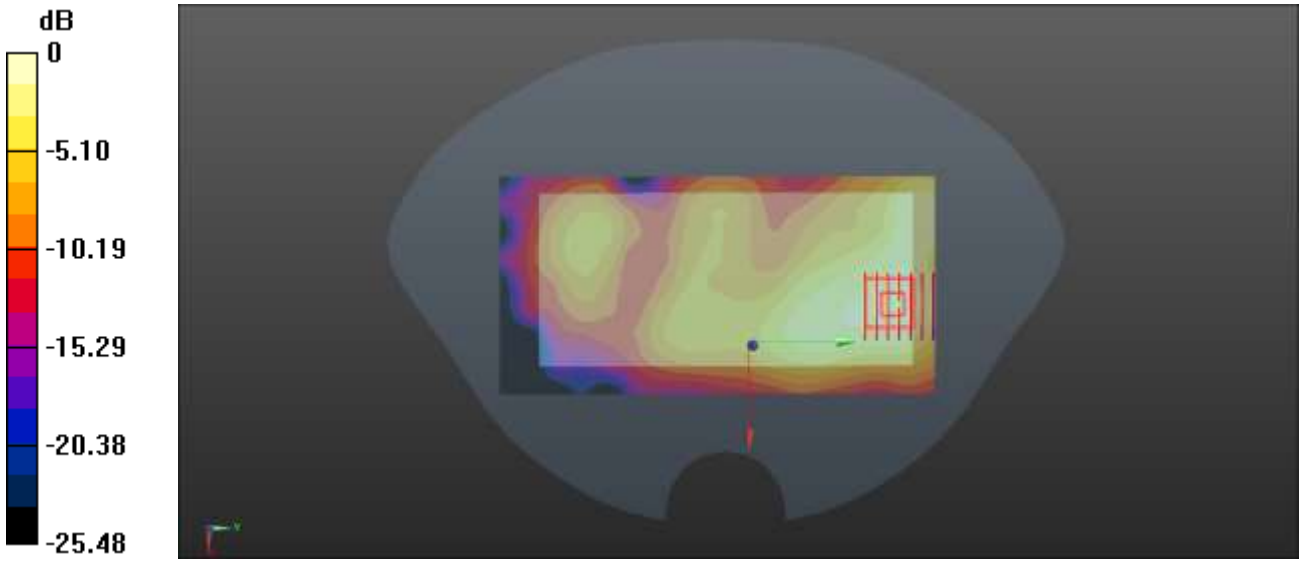
Ambient Temperature:22.5 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.5, 7.5, 7.5); Calibrated: 2020.08.07;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch40620/Area Scan (81x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0634 W/kg

Ch40620/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.267 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.106 W/kg
SAR(1 g) = 0.059 W/kg; SAR(10 g) = 0.032 W/kg
Maximum value of SAR (measured) = 0.0644 W/kg



0 dB = 0.0644 W/kg

Meas.48 Body Plane with Top Edge 10mm on Low Channel in LTE B41 mode With Antenna1 and 1RB

Date: 2021.03.08

Communication System Band: Band 41; Frequency: 2506 MHz;Duty Cycle: 1:1.58

Medium parameters used (interpolated): f = 2506 MHz; σ = 1.845 S/m; ε_r = 38.868; ρ = 1000 kg/m^3

Phantom section: Flat Section

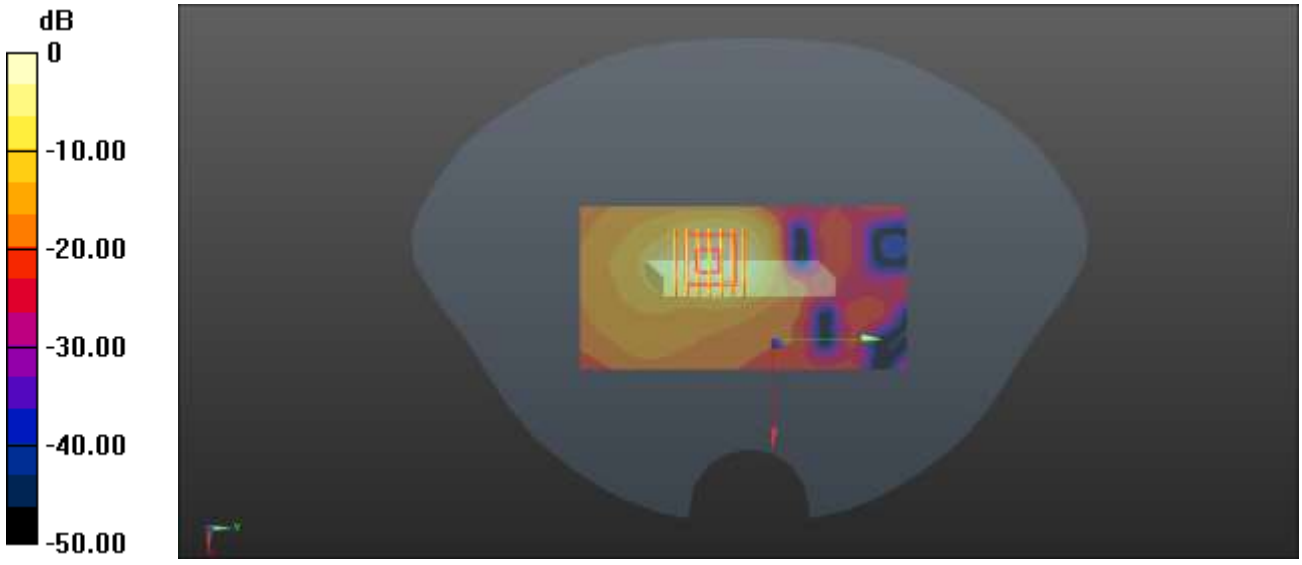
Ambient Temperature:22.5 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.5, 7.5, 7.5); Calibrated: 2020.08.07;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch39750/Area Scan (61x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.114 W/kg

Ch39750/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.104 V/m; Power Drift =-0.05 dB
Peak SAR (extrapolated) = 0.214 W/kg
SAR(1 g) = 0.097 W/kg; SAR(10 g) = 0.041 W/kg
Maximum value of SAR (measured) = 0.114 W/kg



0 dB = 0.114 W/kg

Meas.49 Right Head with Cheek on Middle Channel in n5 mode With Antenna1 and 1RB

Date: 2021.03.02

Communication System Band: n5; Frequency: 836.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.881 S/m; ε_r = 41.364; ρ = 1000 kg/m^3

Phantom section: Right Section

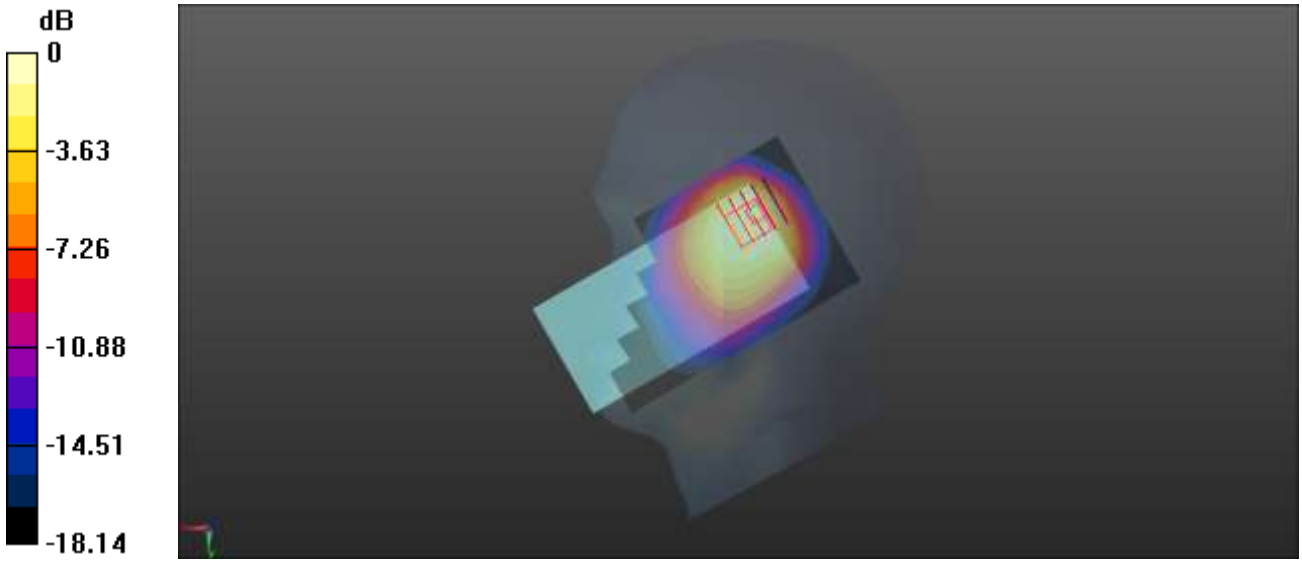
Ambient Temperature:22.4 Liquid Temperature:21.6

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.94, 9.94, 9.94); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Left 1402; Serial: TP1402
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch167300/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.01 W/kg

Ch167300/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.53 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 1.61 W/kg
SAR(1 g) = 0.785 W/kg; SAR(10 g) = 0.487 W/kg
Maximum value of SAR (measured) = 0.821 W/kg



0 dB = 0.821 W/kg

Meas.50 Body Plane with Back Side 15mm on Middle Channel in n5 mode With Antenna1 and 1RB

Date: 2021.03.03

Communication System Band: n5; Frequency: 836.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.891 S/m; ε_r = 41.488; ρ = 1000 kg/m^3

Phantom section: Flat Section

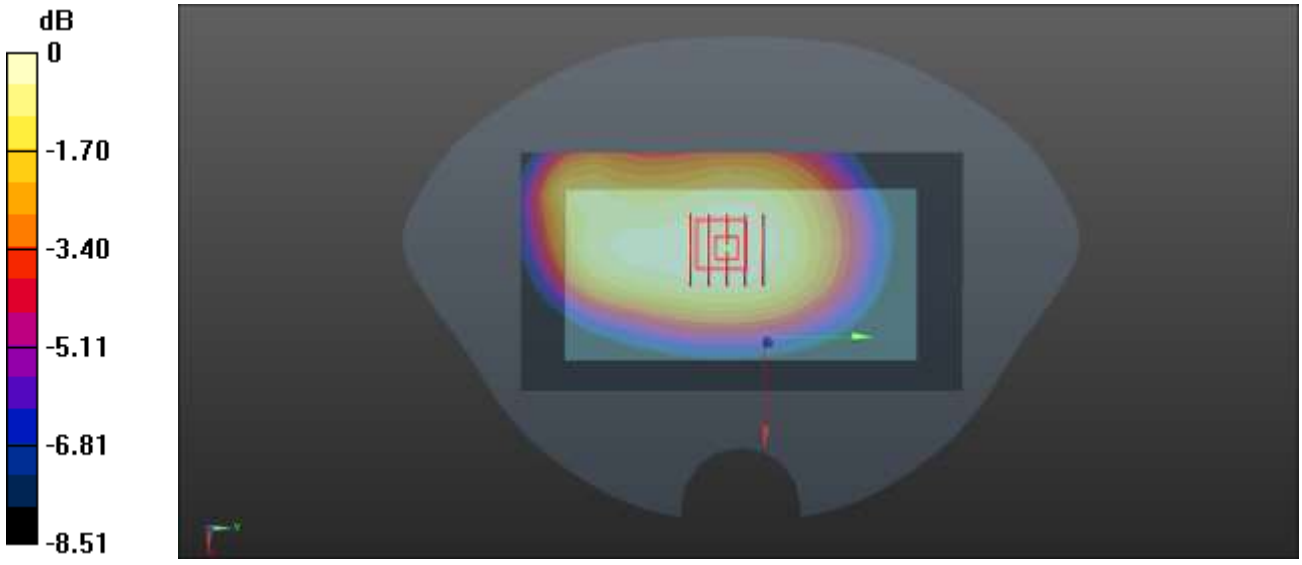
Ambient Temperature:22.7 Liquid Temperature:21.6

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.94, 9.94, 9.94); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Left 1402; Serial: TP1402
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch167300/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.173 W/kg

Ch167300/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.24 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.204 W/kg
SAR(1 g) = 0.163 W/kg; SAR(10 g) = 0.125 W/kg
Maximum value of SAR (measured) = 0.171 W/kg



0 dB = 0.171 W/kg

Meas.51 Body Plane with Front Side 10mm on Middle Channel in n5 mode With Antenna1 and 1RB

Date: 2021.03.03

Communication System Band: n5; Frequency: 836.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.891 S/m; ε_r = 41.488; ρ = 1000 kg/m^3

Phantom section: Flat Section

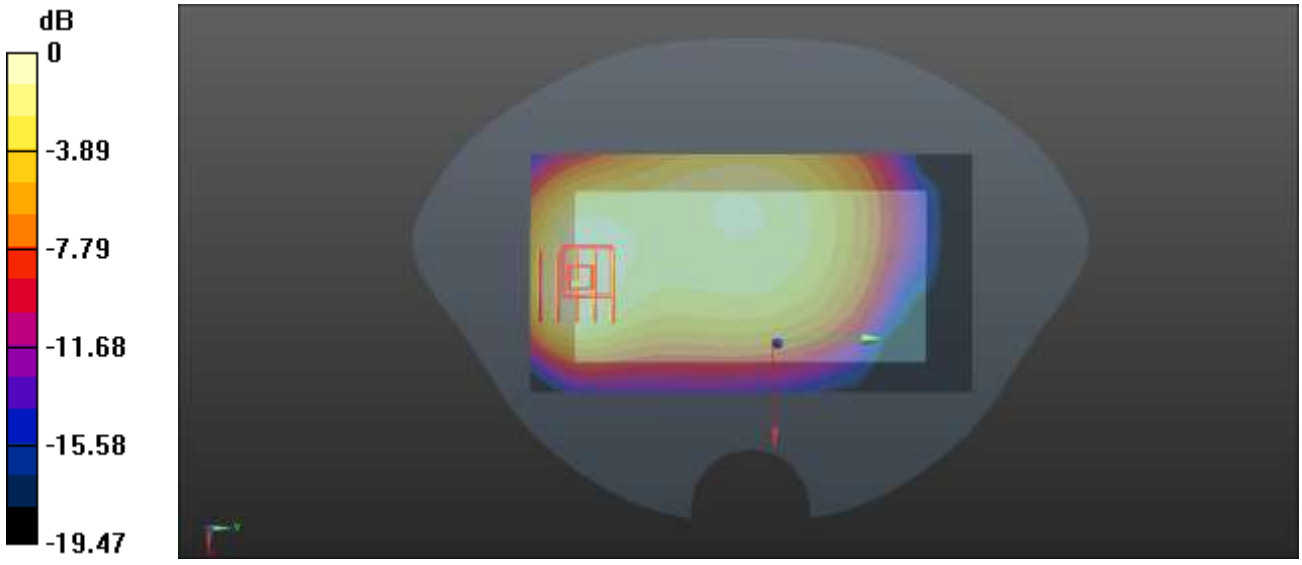
Ambient Temperature:22.7 Liquid Temperature:21.6

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.94, 9.94, 9.94); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Left 1402; Serial: TP1402
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch167300/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.194 W/kg

Ch167300/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.58 V/m; Power Drift =0.01 dB
Peak SAR (extrapolated) = 0.268 W/kg
SAR(1 g) = 0.227 W/kg; SAR(10 g) = 0.142 W/kg
Maximum value of SAR (measured) = 0.185 W/kg



0 dB = 0.185 W/kg

Meas.52 Right Head with Cheek on High Channel in n7 mode With Antenna1 and 1RB

Date: 2021.03.04

Communication System Band: n7; Frequency: 2560 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 2560 MHz; σ = 1.936 S/m; ε_r = 39.175; ρ = 1000 kg/m^3

Phantom section: Right Section

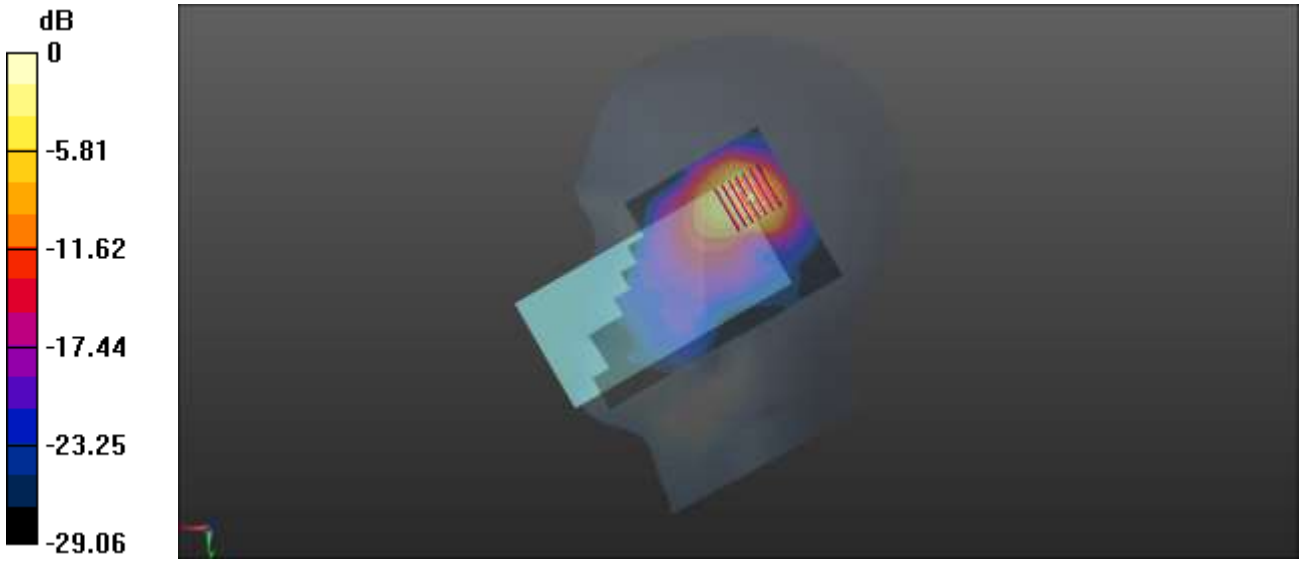
Ambient Temperature:22.4 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.5, 7.5, 7.5); Calibrated: 2020.08.07;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch512000/Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.680 W/kg

Ch512000/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 5.190 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 1.56 W/kg
SAR(1 g) = 0.569 W/kg; SAR(10 g) = 0.219 W/kg
Maximum value of SAR (measured) = 0.673 W/kg



0 dB = 0.673 W/kg

Meas.53 Body Plane with Back Side 15mm on Low Channel in n7 mode With Antenna1 and 50RB

Date: 2021.03.05

Communication System Band: n7; Frequency: 2510 MHz;Duty Cycle: 1:1

Medium parameters used: f = 2510 MHz; σ = 1.863 S/m; ε_r = 39.555; ρ = 1000 kg/m^3

Phantom section: Flat Section

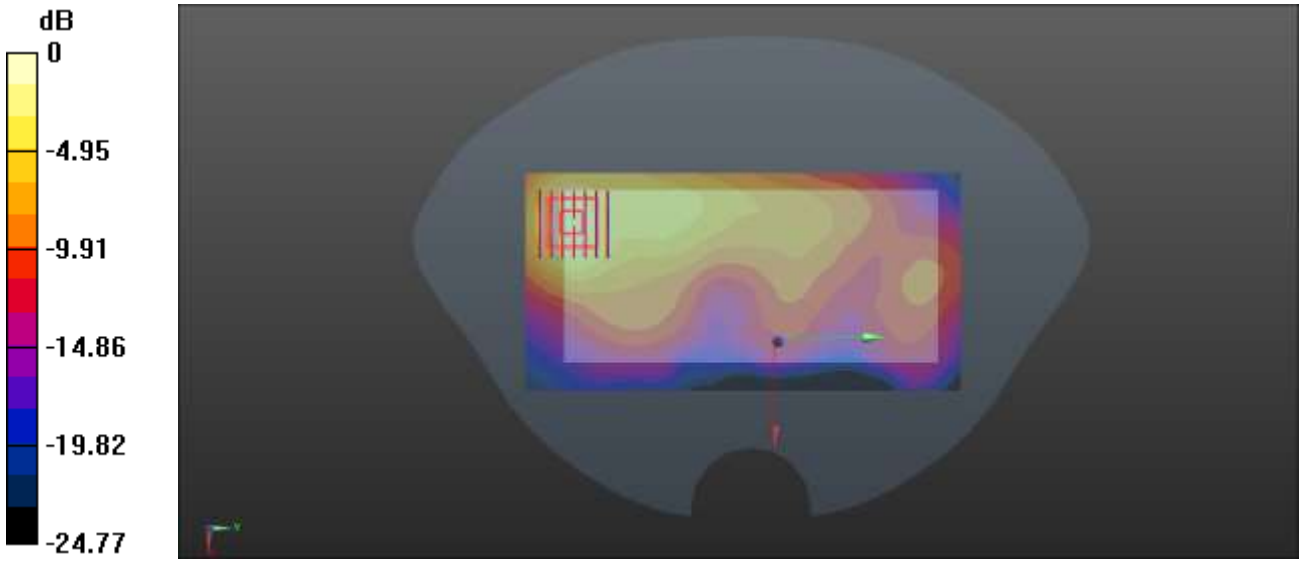
Ambient Temperature:22.7 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.5, 7.5, 7.5); Calibrated: 2020.08.07;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch502000/Area Scan (81x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.214 W/kg

Ch502000/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.079 V/m; Power Drift =-0.18 dB
Peak SAR (extrapolated) = 0.410 W/kg
SAR(1 g) = 0.198 W/kg; SAR(10 g) = 0.094 W/kg
Maximum value of SAR (measured) = 0.223 W/kg



0 dB = 0.223 W/kg

Meas.54 Body Plane with Top Edge 10mm on Low Channel in n7 mode With Antenna1 and 1RB

Date: 2021.03.05

Communication System Band: n7; Frequency: 2510 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 2510 MHz; σ = 1.863 S/m; ε_r = 39.555; ρ = 1000 kg/m^3

Phantom section: Flat Section

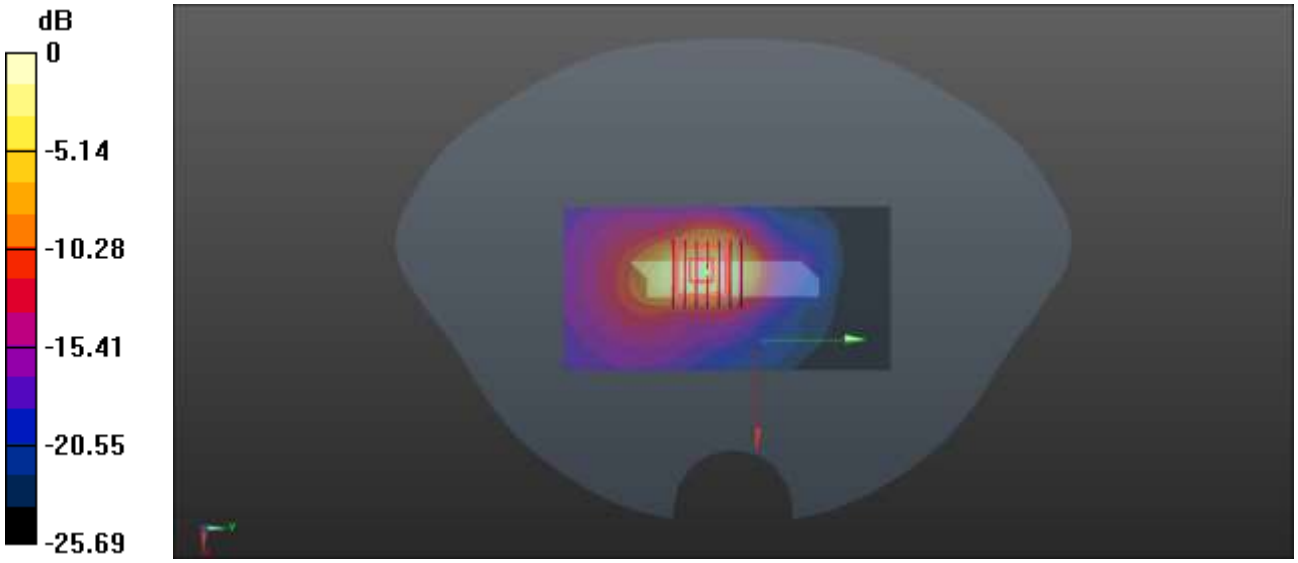
Ambient Temperature:22.7 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.5, 7.5, 7.5); Calibrated: 2020.08.07;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch502000/Area Scan (61x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.984 W/kg

Ch502000/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.36 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 1.78 W/kg
SAR(1 g) = 0.804 W/kg; SAR(10 g) = 0.338 W/kg
Maximum value of SAR (measured) = 0.924 W/kg



0 dB = 0.924 W/kg

Meas.55 Body Plane with Back Side 0mm on Middle Channel in n7 mode With Antenna1 and 1RB

Date: 2021.03.05

Communication System Band: n7; Frequency: 2535 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 2535 MHz; σ = 1.894 S/m; ε_r = 39.441; ρ = 1000 kg/m^3

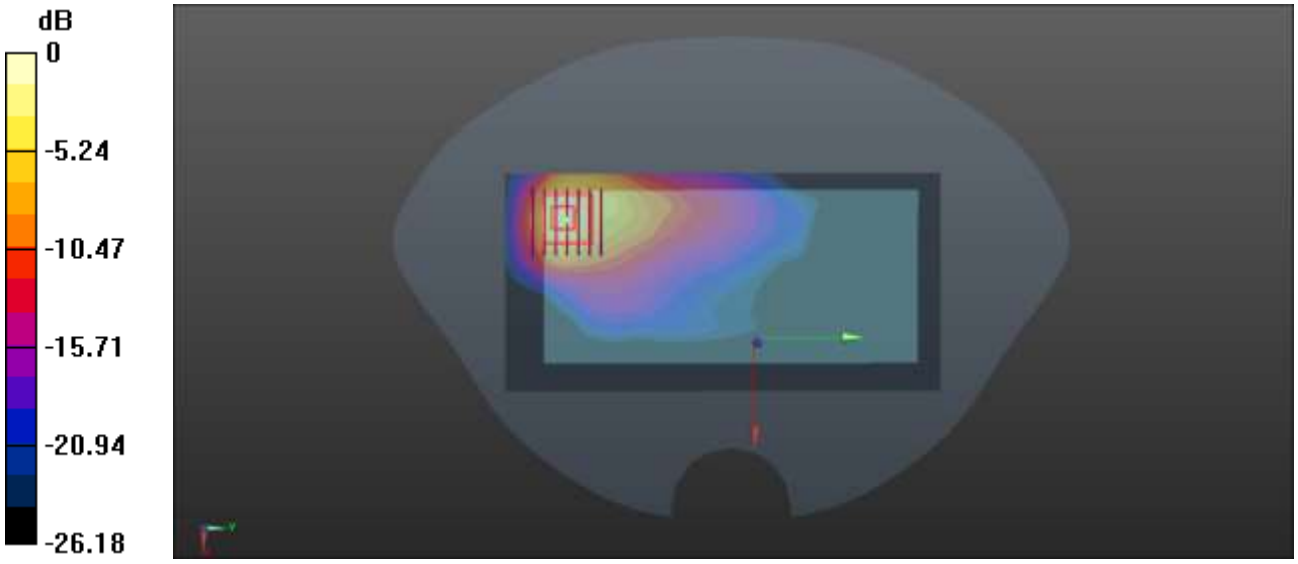
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.5, 7.5, 7.5); Calibrated: 2020.08.07;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch507000/Area Scan (81x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 3.28 W/kg

Ch507000/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.730 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 7.87 W/kg
SAR(1 g) = 2.67 W/kg; SAR(10 g) = 0.989 W/kg
Maximum value of SAR (measured) = 3.22 W/kg



0 dB = 3.22 W/kg

Meas.56 Right Head with Cheek on Low Channel in n38 mode With Antenna1 and 1RB

Date: 2021.03.12

Communication System Band: n38; Frequency: 2580 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 2580 MHz; σ = 1.921 S/m; ε_r = 39.169; ρ = 1000 kg/m^3

Phantom section: Right Section

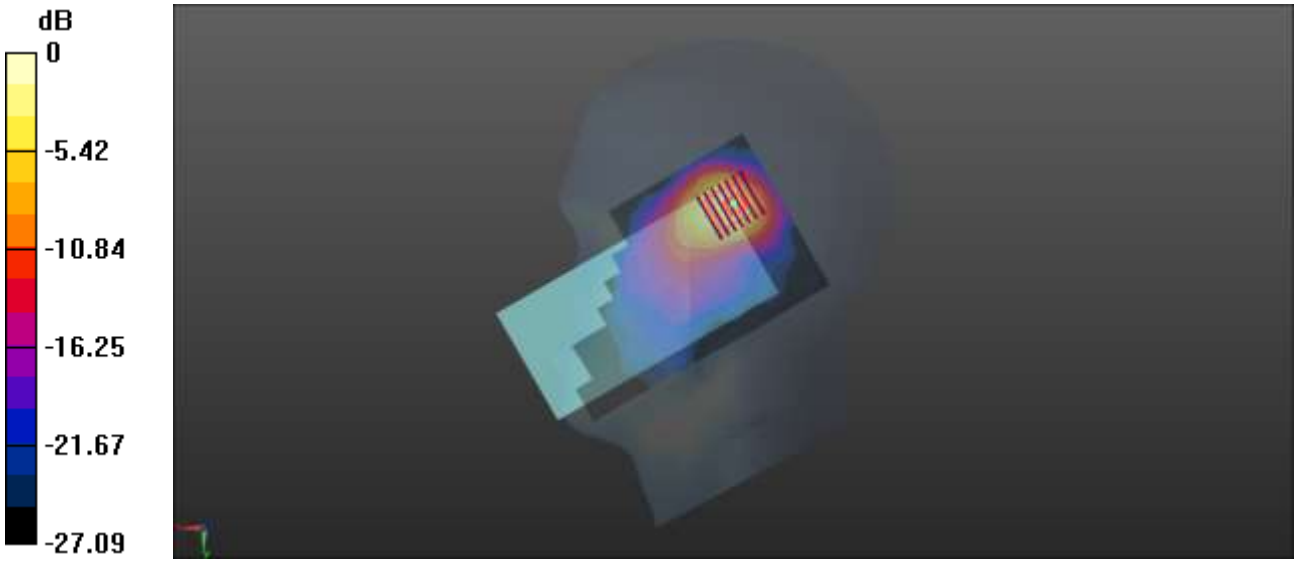
Ambient Temperature:22.7 Liquid Temperature:21.2

DASY4 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.5, 7.5, 7.5); Calibrated: 2020.08.07;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch516000/Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.613 W/kg

Ch516000/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.312 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.48 W/kg
SAR(1 g) = 0.499 W/kg; SAR(10 g) = 0.194 W/kg
Maximum value of SAR (measured) = 0.584 W/kg



0 dB = 0.584 W/kg

Meas.57 Body Plane with Back Side 15mm on Middle Channel in n38 mode With Antenna0 and 1RB

Date: 2021.03.13

Communication System Band: n38; Frequency: 2595 MHz;Duty Cycle: 1:1

Medium parameters used: f = 2595 MHz; σ = 1.946 S/m; ε_r = 38.967; ρ = 1000 kg/m^3

Phantom section: Flat Section

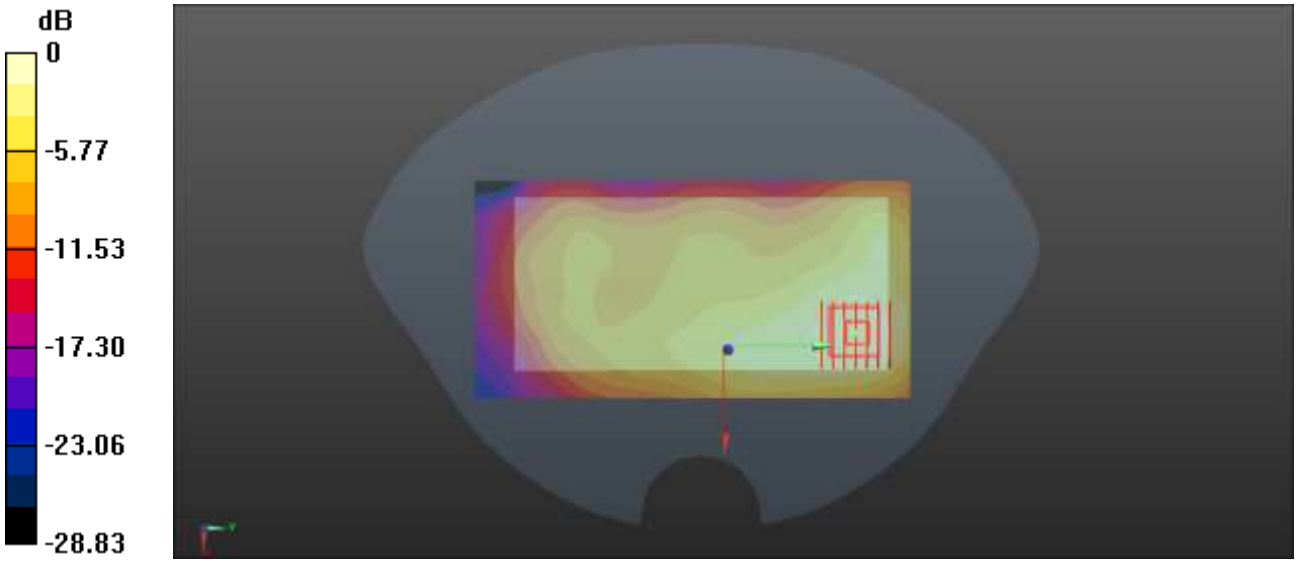
Ambient Temperature:22.7 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.5, 7.5, 7.5); Calibrated: 2020.08.07;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch519000/Area Scan (81x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.378 W/kg

Ch519000/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.390 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.665 W/kg
SAR(1 g) = 0.343 W/kg; SAR(10 g) = 0.180 W/kg
Maximum value of SAR (measured) = 0.375 W/kg



0 dB = 0.375 W/kg

Meas.58 Body Plane with Back Side 10mm on Middle Channel in n38 mode With Antenna1 and 25RB

Date: 2021.03.13

Communication System Band: n38; Frequency: 2595 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 2595 MHz; σ = 1.946 S/m; ε_r = 38.967; ρ = 1000 kg/m^3

Phantom section: Flat Section

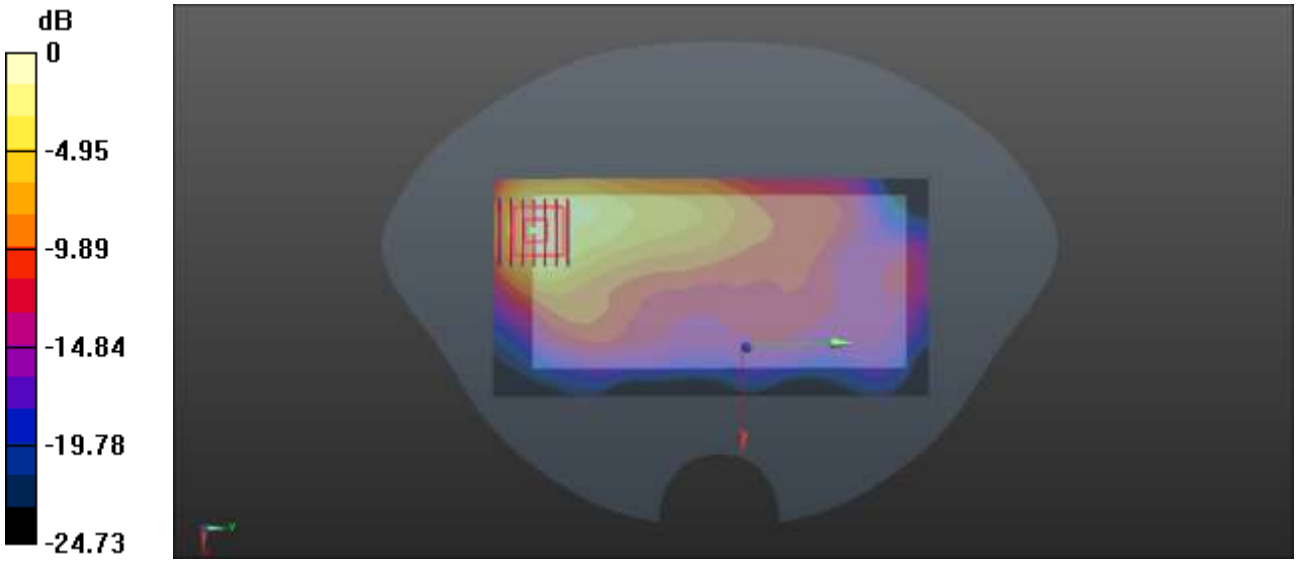
Ambient Temperature:22.7 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.5, 7.5, 7.5); Calibrated: 2020.08.07;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch519000/Area Scan (81x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.586 W/kg

Ch519000/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.836 V/m; Power Drift =-0.01 dB
Peak SAR (extrapolated) = 1.32 W/kg
SAR(1 g) = 0.560 W/kg; SAR(10 g) = 0.244 W/kg
Maximum value of SAR (measured) = 0.633 W/kg



0 dB = 0.633 W/kg

Meas.59 Body Plane with Back Side 0mm on High Channel in n38 mode With Antenna1 and 1RB

Date: 2021.03.13

Communication System Band: n38; Frequency: 2610 MHz;Duty Cycle: 1:1

Medium parameters used (extrapolated): f = 2610 MHz; σ = 1.968 S/m; ε_r = 38.872; ρ = 1000 kg/m^3

Phantom section: Flat Section

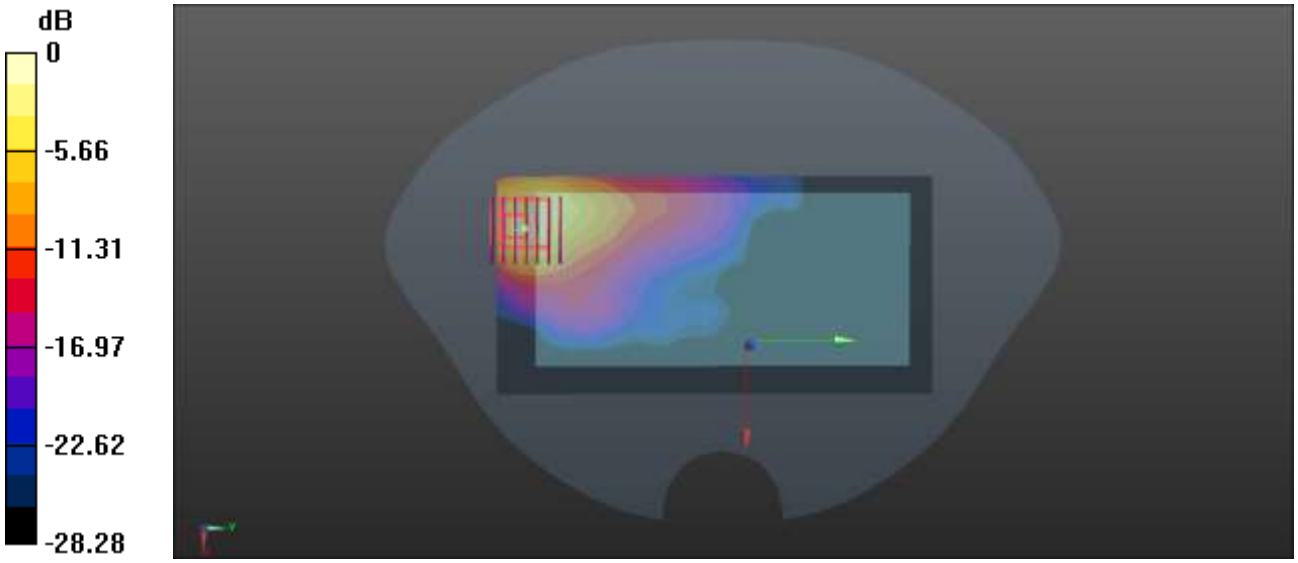
Ambient Temperature:22.7 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.5, 7.5, 7.5); Calibrated: 2020.08.07;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch522000/Area Scan (81x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 3.75 W/kg

Ch522000/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.771 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 11.6 W/kg
SAR(1 g) = 3.57 W/kg; SAR(10 g) = 1.37 W/kg
Maximum value of SAR (measured) = 4.26 W/kg



0 dB = 4.26 W/kg

Meas.60 Right Head with Cheek on Middle Channel in n41 mode With Antenna1 and 1RB

Date: 2021.03.06

Communication System Band: n41; Frequency: 2592.99 MHz;Duty Cycle: 1:1

Medium parameters used: f = 2592.99 MHz; σ = 1.979 S/m; ε_r = 39.391; ρ = 1000 kg/m^3

Phantom section: Right Section

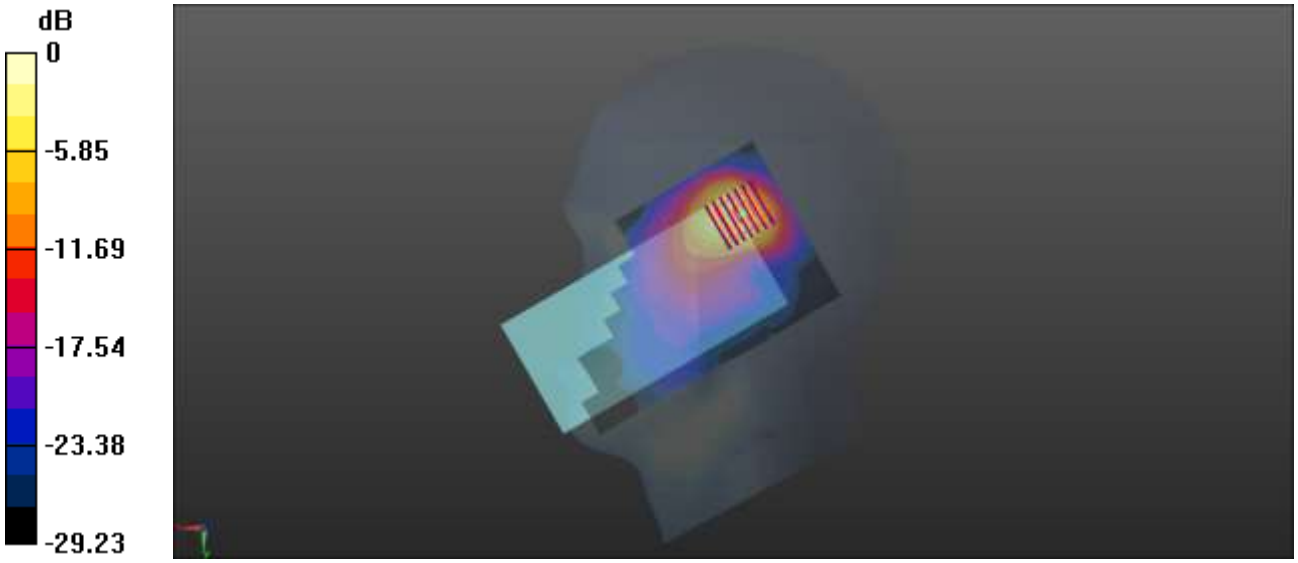
Ambient Temperature:22.6 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.5, 7.5, 7.5); Calibrated: 2020.08.07;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch518598/Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.853 W/kg

Ch518598/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 5.042 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 2.09 W/kg
SAR(1 g) = 0.702 W/kg; SAR(10 g) = 0.268 W/kg
Maximum value of SAR (measured) = 0.833 W/kg



0 dB = 0.833 W/kg

Meas.61 Body Plane with Back Side 15mm on Middle Channel in n41 mode with Antenna0 and 1RB

Date: 2021.03.06

Communication System Band: n41; Frequency: 2592.99 MHz;Duty Cycle: 1:1

Medium parameters used: f = 2592.99 MHz; σ = 1.979 S/m; ε_r = 39.391; ρ = 1000 kg/m^3

Phantom section: Flat Section

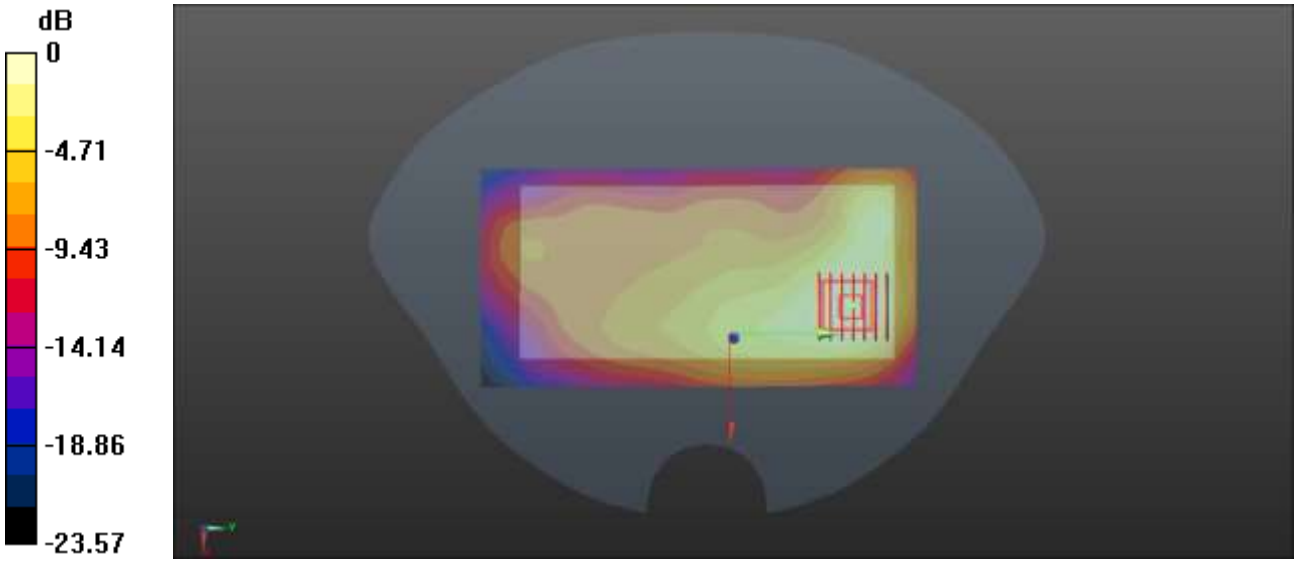
Ambient Temperature:22.6 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.5, 7.5, 7.5); Calibrated: 2020.08.07;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch518598/Area Scan (81x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.345 W/kg

Ch518598/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.283 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.582 W/kg
SAR(1 g) = 0.310 W/kg; SAR(10 g) = 0.165 W/kg
Maximum value of SAR (measured) = 0.340 W/kg



0 dB = 0.340 W/kg

Meas.62 Body Plane with Top Edge 10mm on Low Channel in n41 mode with Antenna1 and 1RB

Date: 2021.03.06

Communication System Band: n41; Frequency: 2546.01 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 2546.01 MHz; σ = 1.919 S/m; ε_r = 39.651; ρ = 1000 kg/m^3

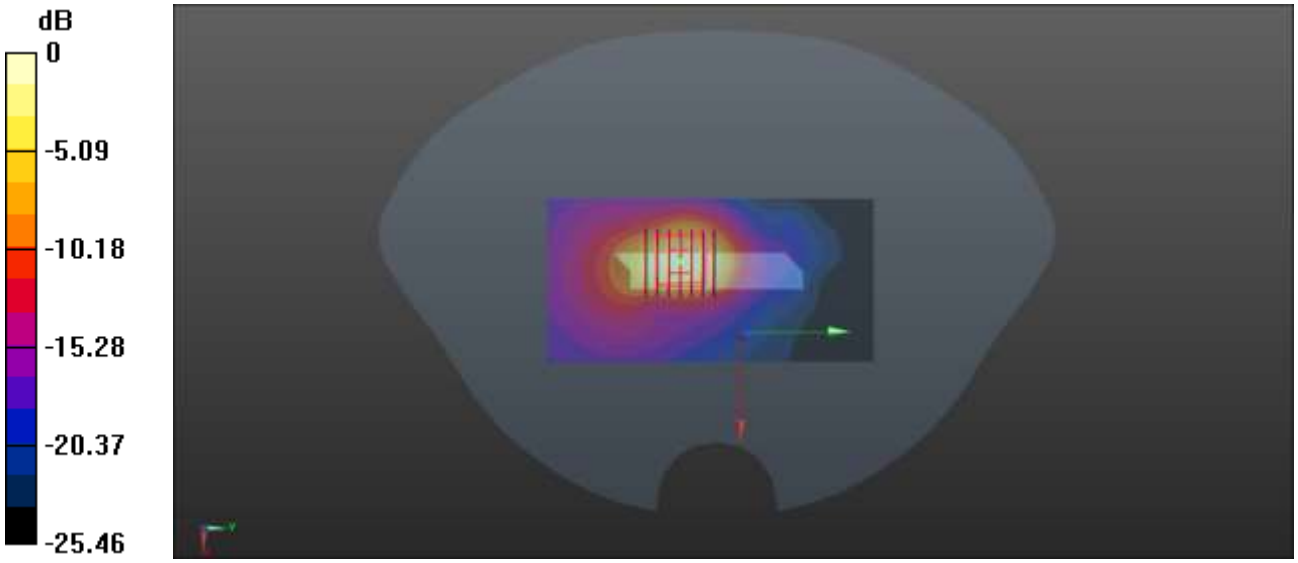
Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.5, 7.5, 7.5); Calibrated: 2020.08.07;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch509202/Area Scan (61x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.953 W/kg
Ch509202/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.02 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 1.75 W/kg
SAR(1 g) = 0.787 W/kg; SAR(10 g) = 0.330 W/kg
Maximum value of SAR (measured) = 0.920 W/kg



0 dB = 0.920 W/kg

Meas.63 Body Plane with Top Edge 0mm on Low Channel in n41 mode with Antenna1 and 1RB

Date: 2021.03.06

Communication System Band: n41; Frequency: 2546.01 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 2546.01 MHz; σ = 1.919 S/m; ε_r = 39.651; ρ = 1000 kg/m^3

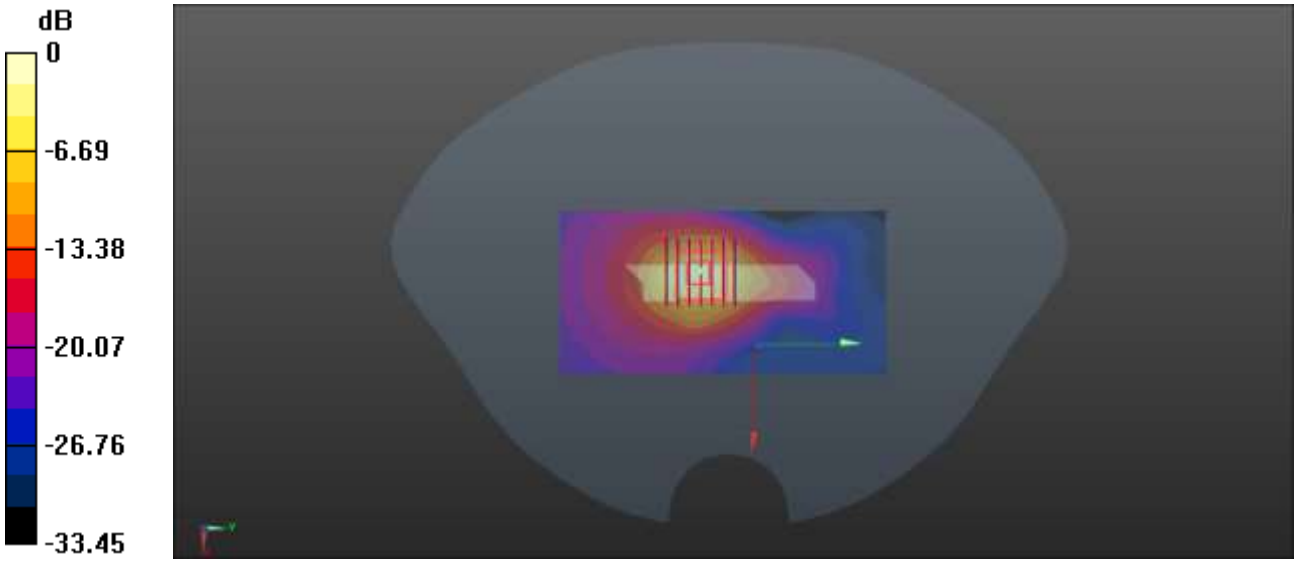
Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.5, 7.5, 7.5); Calibrated: 2020.08.07;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch509202/Area Scan (61x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 2.79 W/kg
Ch509202/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 18.96 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 10.0 W/kg
SAR(1 g) = 2.48 W/kg; SAR(10 g) = 0.783 W/kg
Maximum value of SAR (measured) = 3.10 W/kg



0 dB = 3.10 W/kg

Meas.64 Left Head with Cheek on Low Channel in IEEE802.11b mode

Date: 2021.03.01

Communication System Band: WLAN(b); Frequency: 2412 MHz;Duty Cycle: 1:1.003

Medium parameters used (interpolated): f = 2412 MHz; σ = 1.735 S/m; ε_r = 39.442; ρ = 1000 kg/m^3

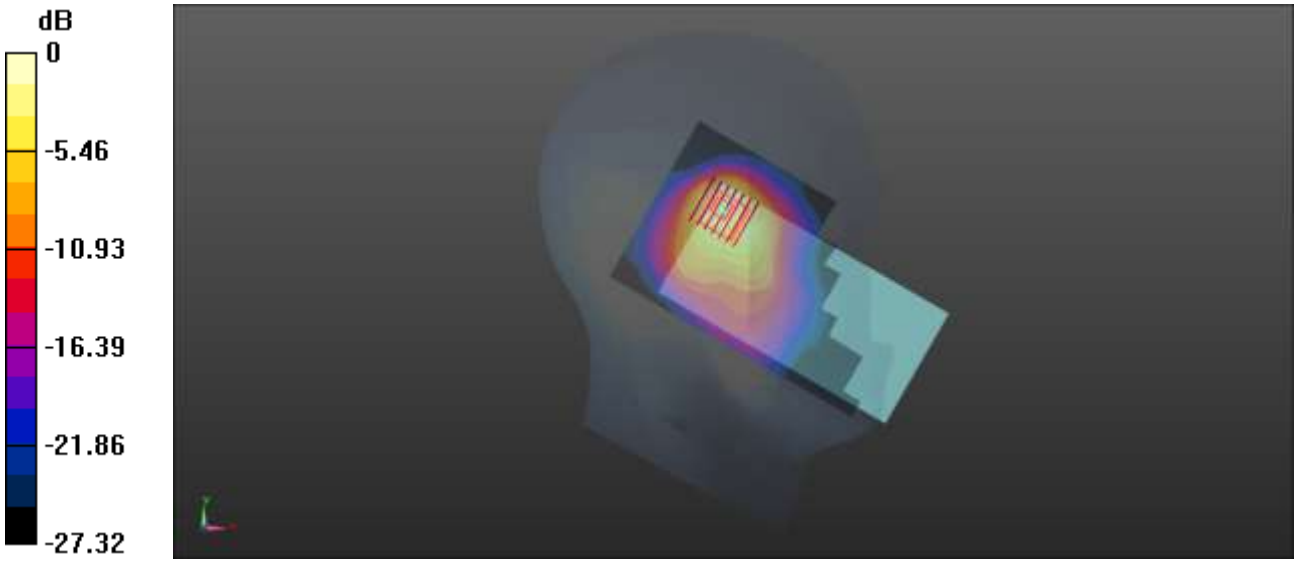
Phantom section: Left Section

Ambient Temperature:22.6 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.66, 7.66, 7.66); Calibrated: 2020.08.07;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch1/Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.07 W/kg
Ch1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.27 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 1.98 W/kg
SAR(1 g) = 0.855 W/kg; SAR(10 g) = 0.390 W/kg
Maximum value of SAR (measured) = 0.966 W/kg



0 dB = 0.966 W/kg

Meas.65 Body Plane with Back Side 15mm on High Channel in IEEE802.11b mode

Date: 2021.03.01

Communication System Band: WLAN(b); Frequency: 2462 MHz;Duty Cycle: 1:1.003

Medium parameters used (interpolated): f = 2462 MHz; σ = 1.799 S/m; ε_r = 38.905; ρ = 1000 kg/m^3

Phantom section: Flat Section

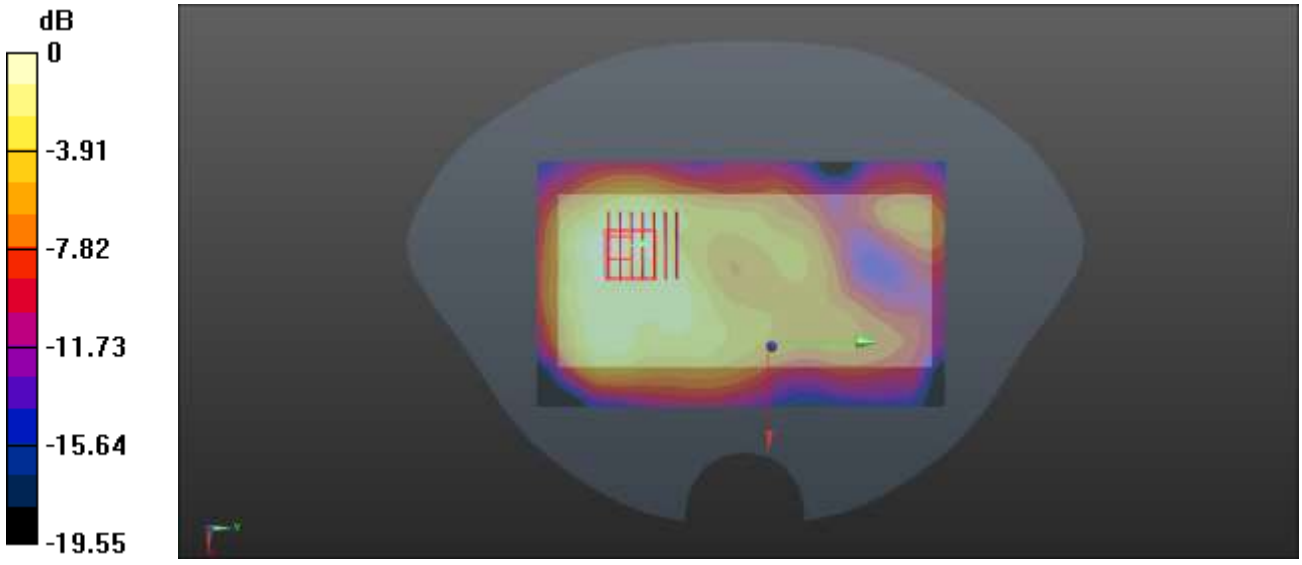
Ambient Temperature:22.6 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.66, 7.66, 7.66); Calibrated: 2020.08.07;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch11/Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.147 W/kg

Ch11/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.776 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.343 W/kg
SAR(1 g) = 0.150 W/kg; SAR(10 g) = 0.083 W/kg
Maximum value of SAR (measured) = 0.159 W/kg



0 dB = 0.159 W/kg

Meas.66 Body Plane with Top Edge 10mm on High Channel in IEEE802.11b mode

Date: 2021.03.01

Communication System Band: WLAN(b); Frequency: 2462 MHz;Duty Cycle: 1:1.003

Medium parameters used (interpolated): f = 2462 MHz; σ = 1.799 S/m; ε_r = 38.905; ρ = 1000 kg/m^3

Phantom section: Flat Section

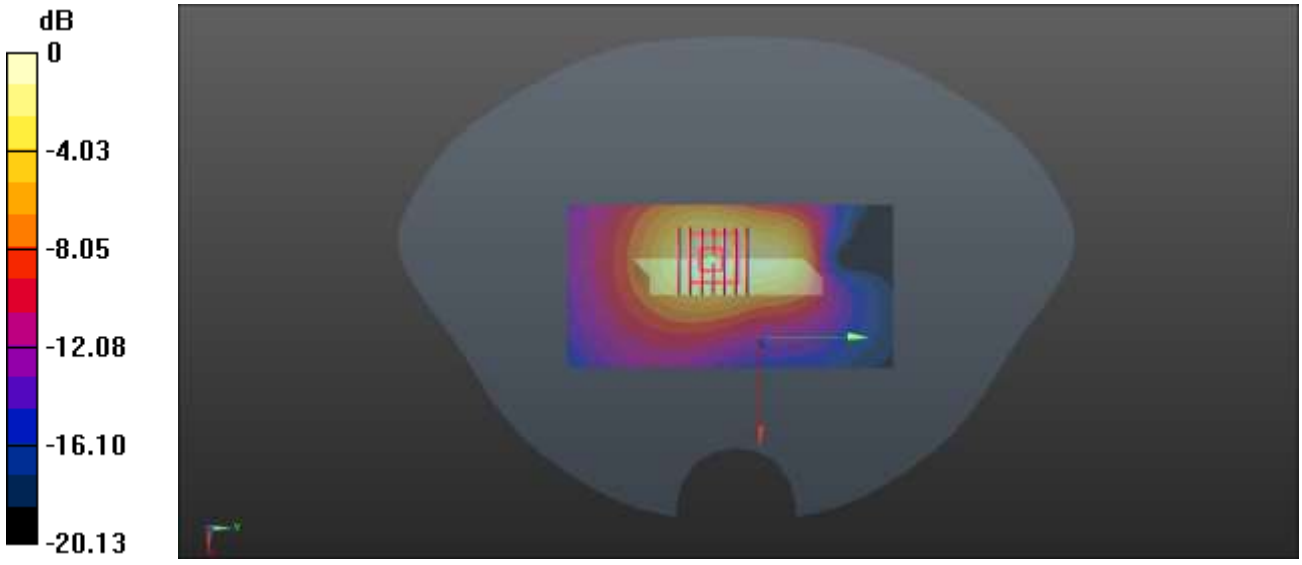
Ambient Temperature:22.6 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.66, 7.66, 7.66); Calibrated: 2020.08.07;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch11/Area Scan (61x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.278 W/kg

Ch11/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.778 V/m; Power Drift = 0.19 dB
Peak SAR (extrapolated) = 0.477 W/kg
SAR(1 g) = 0.253 W/kg; SAR(10 g) = 0.132 W/kg
Maximum value of SAR (measured) = 0.279 W/kg



0 dB = 0.279 W/kg

Meas.67 Left Head with Cheek on 60 Channel in IEEE802.11a mode

Date: 2021.02.26

Communication System Band: WLAN(a); Frequency: 5300 MHz;Duty Cycle: 1:1.025

Medium parameters used: f = 5300 MHz; σ = 4.779 S/m; ε_r = 35.76; ρ = 1000 kg/m^3

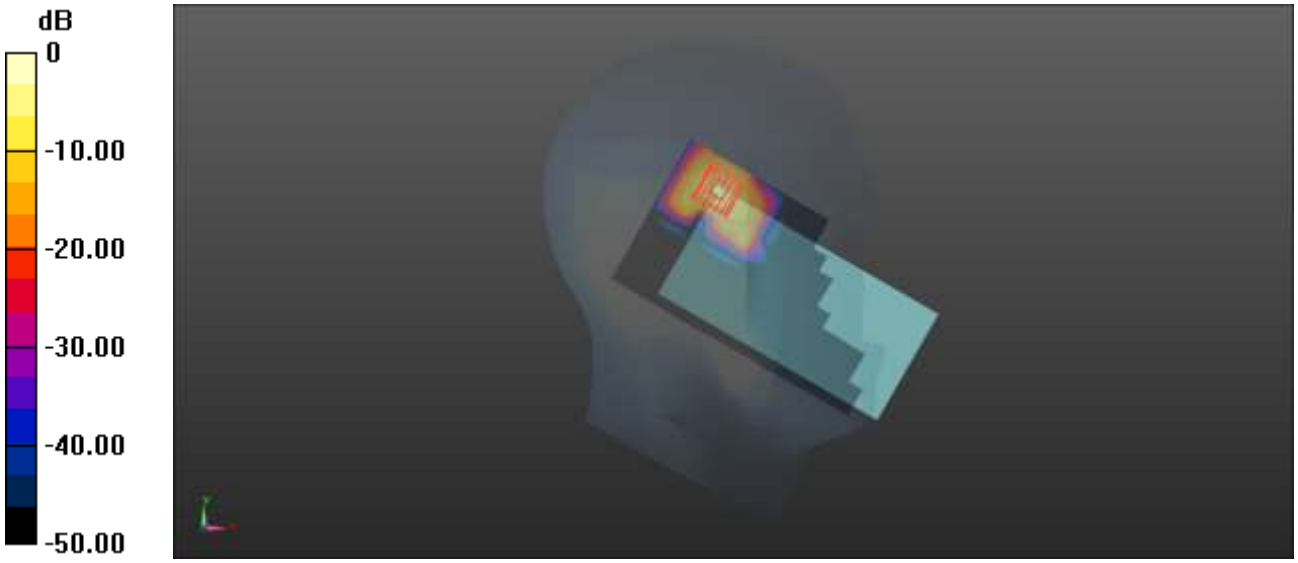
Phantom section: Left Section

Ambient Temperature:22.6 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(5.3, 5.3, 5.3); Calibrated: 2020.08.07;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP: 1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch60/Area Scan (101x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.802 W/kg
Ch60/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 0 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 3.60 W/kg
SAR(1 g) = 0.737 W/kg; SAR(10 g) = 0.194 W/kg
Maximum value of SAR (measured) = 1.66 W/kg



0 dB = 1.66 W/kg

Meas.68 Left Head with Cheek on 116 Channel in IEEE802.11a mode

Date: 2021.02.27

Communication System Band: WLAN(a); Frequency: 5580 MHz;Duty Cycle: 1:1.025

Medium parameters used (interpolated): f = 5580 MHz; σ = 5.048 S/m; ε_r = 36.081; ρ = 1000 kg/m^3

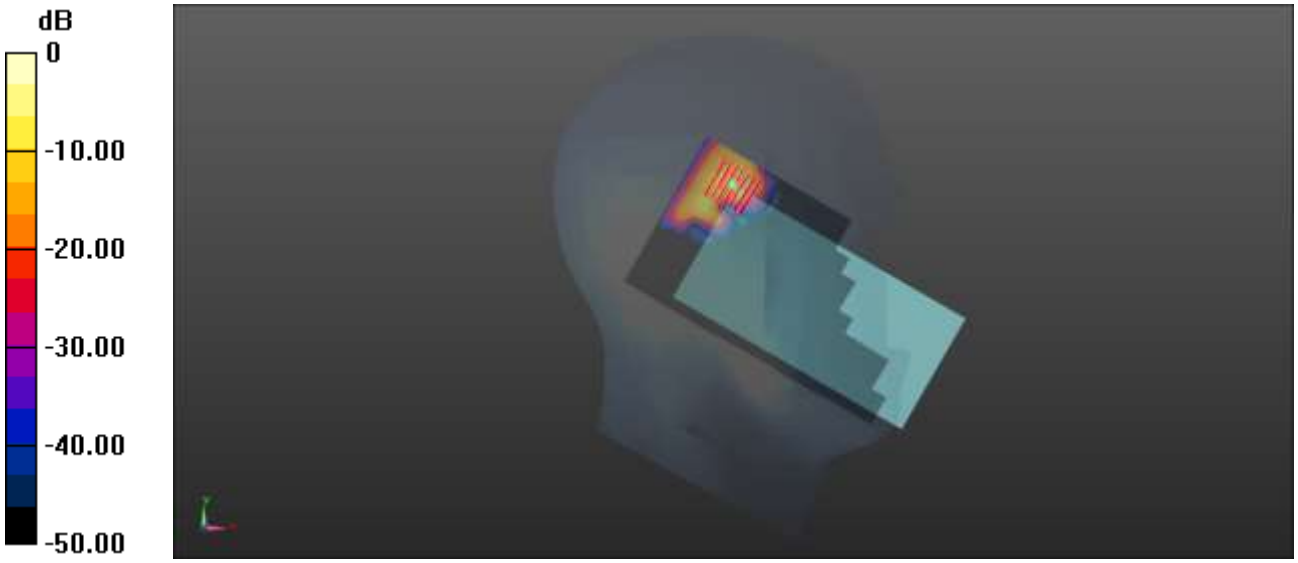
Phantom section: Left Section

Ambient Temperature:22.7 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(4.85, 4.85, 4.85); Calibrated: 2020.08.07;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP: 1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch116/Area Scan (101x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.984 W/kg
Ch116/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 1.007 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 3.48 W/kg
SAR(1 g) = 0.661 W/kg; SAR(10 g) = 0.173 W/kg
Maximum value of SAR (measured) = 1.48 W/kg



0 dB = 1.48 W/kg

Meas.69 Left Head with Cheek on 155 Channel in IEEE802.11ac80 mode

Date: 2021.02.28

Communication System Band: WLAN(ac) 80Mhz; Frequency: 5775 MHz;Duty Cycle: 1:1.101

Medium parameters used (interpolated): f = 5775 MHz; σ = 5.22 S/m; ε_r = 35.692; ρ = 1000 kg/m^3

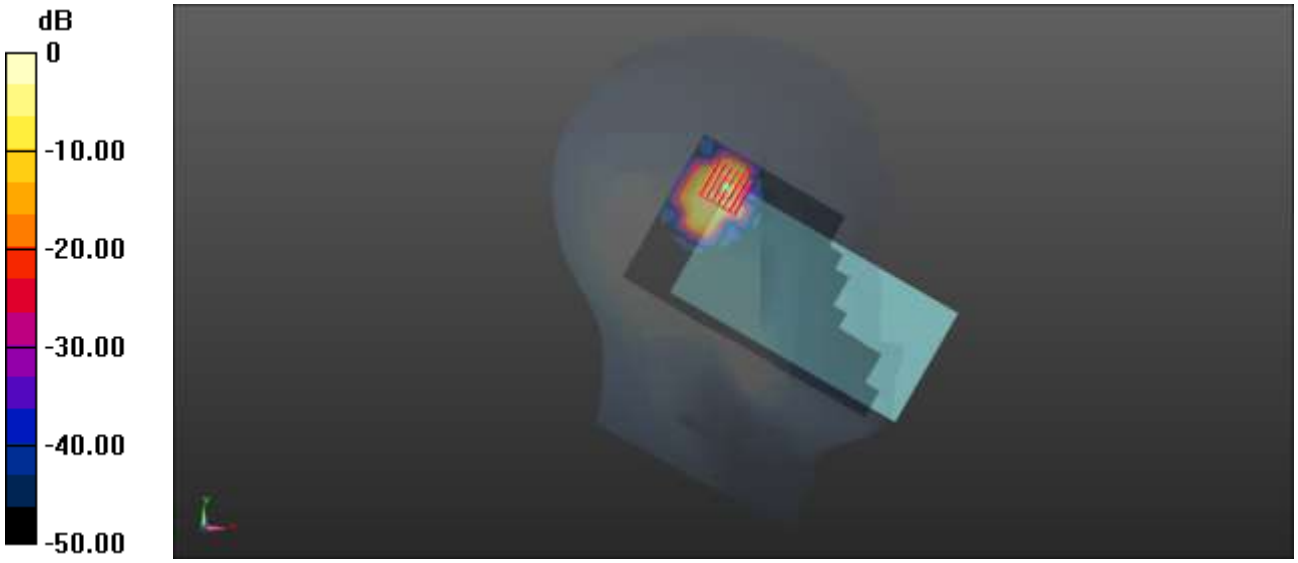
Phantom section: Left Section

Ambient Temperature:22.7 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(4.86, 4.86, 4.86); Calibrated: 2020.08.07;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch155/Area Scan (101x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.721 W/kg
Ch155/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 0.7450 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 2.37 W/kg
SAR(1 g) = 0.458 W/kg; SAR(10 g) = 0.125 W/kg
Maximum value of SAR (measured) = 0.993 W/kg



0 dB = 0.993 W/kg

Meas.70 Body Plane with Back Side 15mm on 60 Channel in IEEE802.11a mode

Date: 2021.02.26

Communication System Band: WLAN(a); Frequency: 5300 MHz;Duty Cycle: 1:1.025

Medium parameters used: f = 5300 MHz; σ = 4.779 S/m; ε_r = 35.76; ρ = 1000 kg/m^3

Phantom section: Flat Section

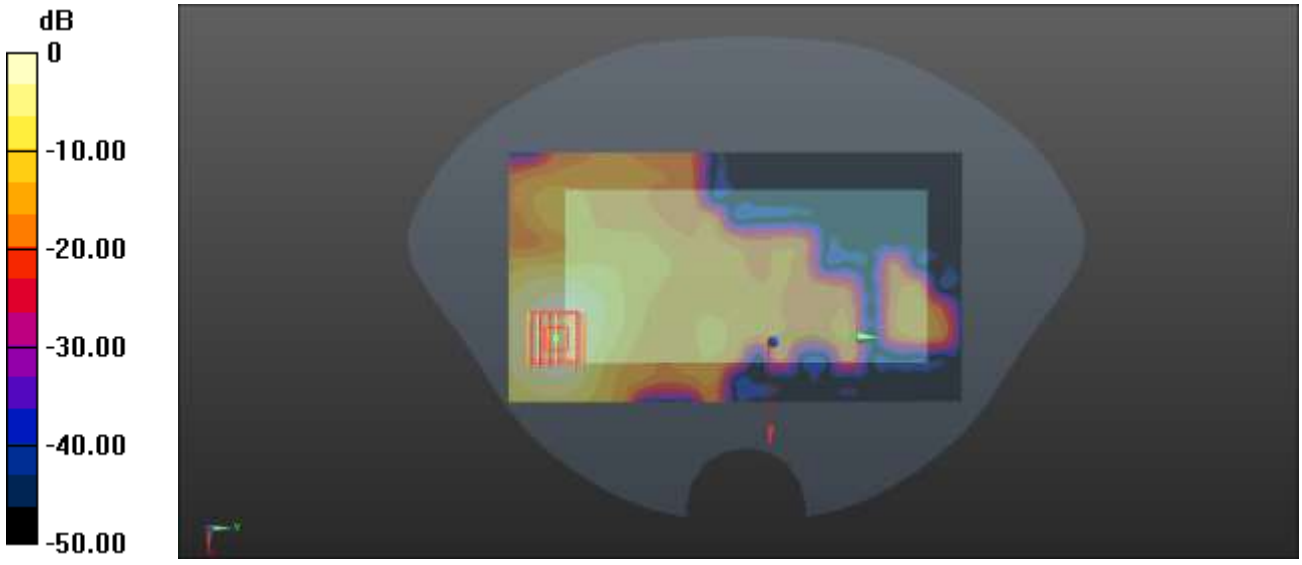
Ambient Temperature:22.6 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(5.3, 5.3, 5.3); Calibrated: 2020.08.07;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP: 1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch60/Area Scan (111x201x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.561 W/kg

Ch60/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 0 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 1.08 W/kg
SAR(1 g) = 0.304 W/kg; SAR(10 g) = 0.122 W/kg
Maximum value of SAR (measured) = 0.551 W/kg



0 dB = 0.551 W/kg

Meas.71 Body Plane with Back Side 15mm on 116 Channel in IEEE802.11a mode

Date: 2021.02.27

Communication System Band: WLAN(a); Frequency: 5580 MHz;Duty Cycle: 1:1.025

Medium parameters used (interpolated): f = 5580 MHz; σ = 5.048 S/m; ε_r = 36.081; ρ = 1000 kg/m^3

Phantom section: Flat Section

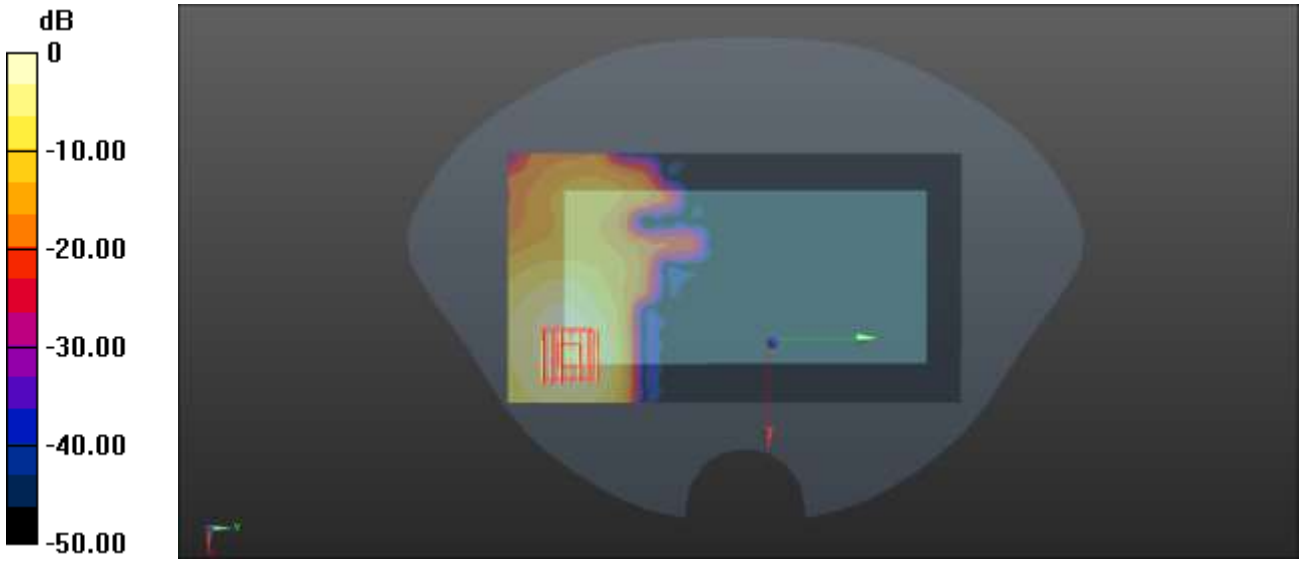
Ambient Temperature:22.7 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(4.85, 4.85, 4.85); Calibrated: 2020.08.07;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP: 1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch116/Area Scan (111x201x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.818 W/kg

Ch116/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 0 V/m; Power Drift = 0.19 dB
Peak SAR (extrapolated) = 1.74 W/kg
SAR(1 g) = 0.440 W/kg; SAR(10 g) = 0.173 W/kg
Maximum value of SAR (measured) = 0.801 W/kg



0 dB = 0.801 W/kg

Meas.72 Body Plane with Back Side 15mm on 155 Channel in IEEE802.11ac mode

Date: 2021.02.28

Communication System Band: WLAN(ac) 80Mhz; Frequency: 5775 MHz;Duty Cycle: 1:1.101

Medium parameters used (interpolated): f = 5775 MHz; σ = 5.22 S/m; ε_r = 35.692; ρ = 1000 kg/m^3

Phantom section: Flat Section

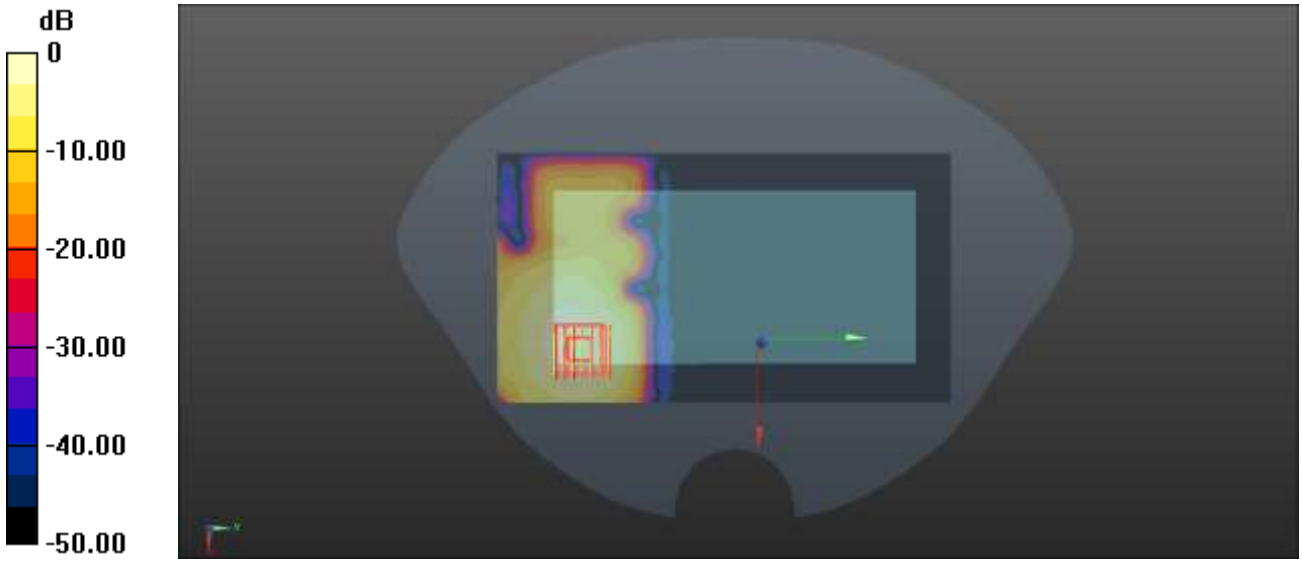
Ambient Temperature:22.7 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(4.86, 4.86, 4.86); Calibrated: 2020.08.07;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP: 1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch155/Area Scan (111x201x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.286 W/kg

Ch155/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 0 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 0.609 W/kg
SAR(1 g) = 0.150 W/kg; SAR(10 g) = 0.060 W/kg
Maximum value of SAR (measured) = 0.285 W/kg



0 dB = 0.285 W/kg

Meas.73 Body Plane with Back Side 10mm on 44 Channel in IEEE802.11a mode

Date: 2021.02.26

Communication System Band: WLAN(a); Frequency: 5220 MHz;Duty Cycle: 1:1.025

Medium parameters used: f = 5220 MHz; σ = 4.655 S/m; ε_r = 36.312; ρ = 1000 kg/m^3

Phantom section: Flat Section

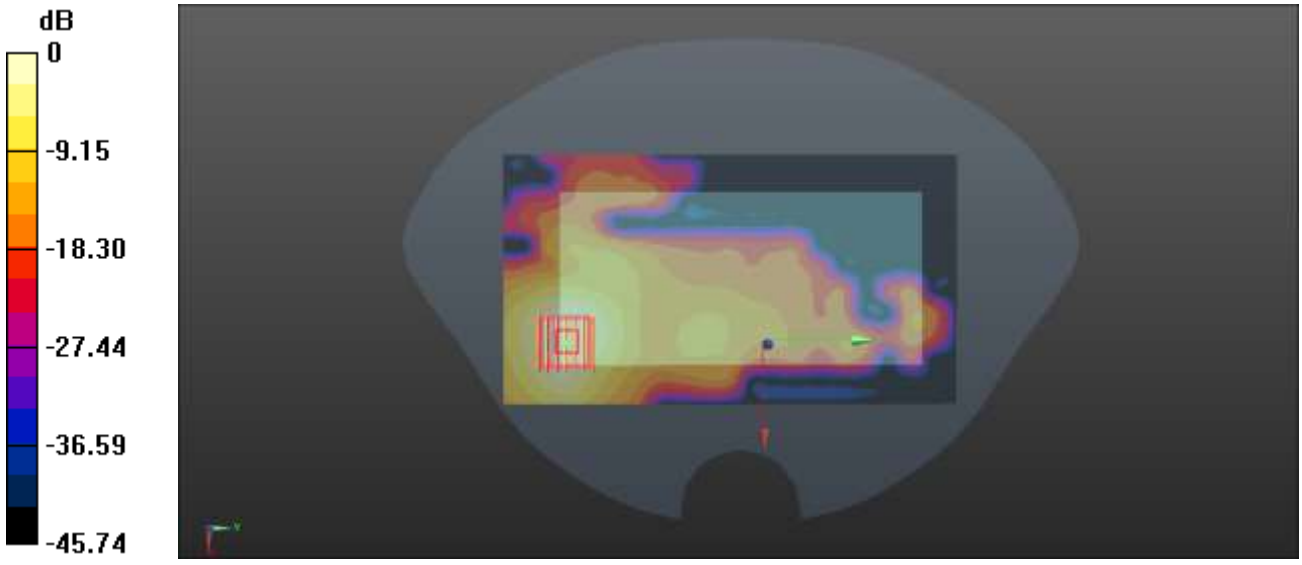
Ambient Temperature:22.6 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(5.46, 5.46, 5.46); Calibrated: 2020.08.07;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP: 1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch44/Area Scan (111x201x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.867 W/kg

Ch44/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 1.192 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.65 W/kg
SAR(1 g) = 0.459 W/kg; SAR(10 g) = 0.179 W/kg
Maximum value of SAR (measured) = 0.833 W/kg



0 dB = 0.833 W/kg

Meas.74 Body Plane with Back Side 10mm on 155 Channel in IEEE802.11ac80 mode

Date: 2021.02.28

Communication System Band: WLAN(ac) 80Mhz; Frequency: 5775 MHz;Duty Cycle: 1:1.101

Medium parameters used (interpolated): f = 5775 MHz; σ = 5.22 S/m; ε_r = 35.692; ρ = 1000 kg/m^3

Phantom section: Flat Section

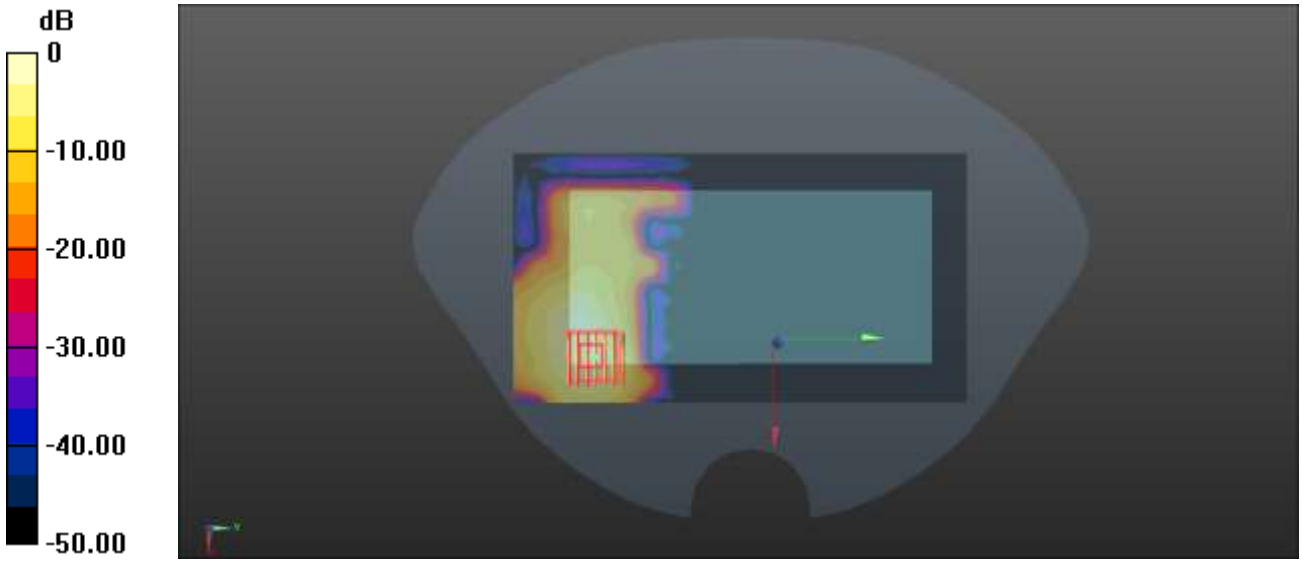
Ambient Temperature:22.7 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(4.86, 4.86, 4.86); Calibrated: 2020.08.07;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP: 1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch155/Area Scan (111x201x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.531 W/kg

Ch155/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 0 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 1.21 W/kg
SAR(1 g) = 0.277 W/kg; SAR(10 g) = 0.091 W/kg
Maximum value of SAR (measured) = 0.542 W/kg



0 dB = 0.542 W/kg

Meas.75 Body Plane with Left Edge 0mm on 60 Channel in IEEE802.11a mode

Date: 2021.02.26

Communication System Band: WLAN(a); Frequency: 5300 MHz;Duty Cycle: 1:1.025

Medium parameters used: f = 5300 MHz; σ = 4.779 S/m; ε_r = 35.76; ρ = 1000 kg/m^3

Phantom section: Flat Section

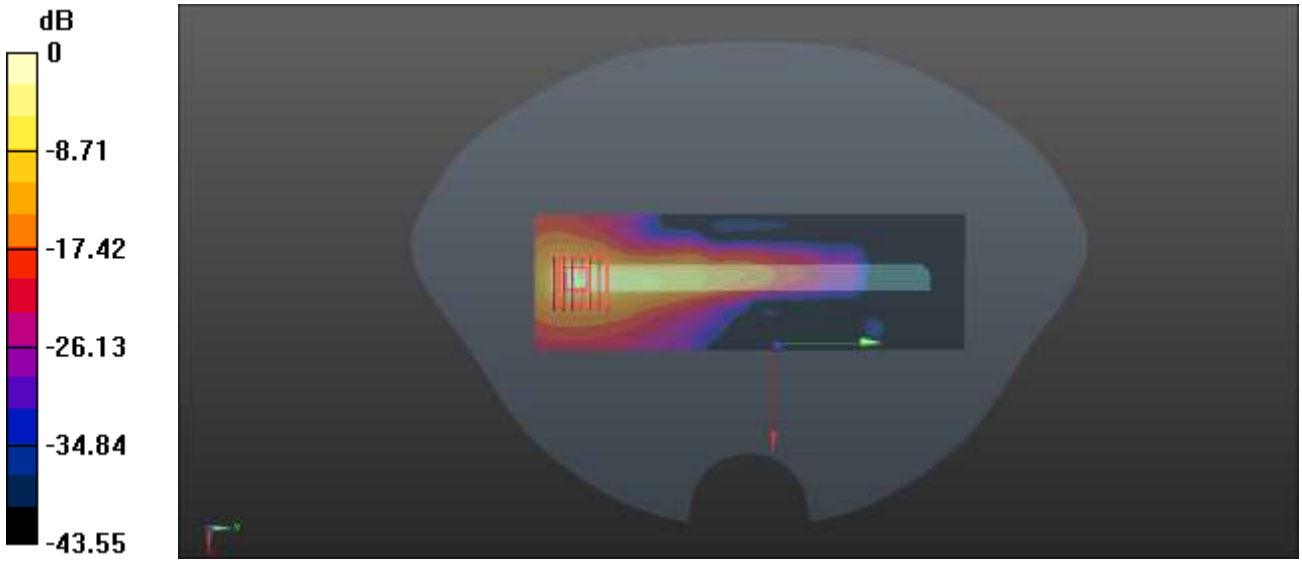
Ambient Temperature:22.6 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(5.3, 5.3, 5.3); Calibrated: 2020.08.07;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP: 1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch60/Area Scan (61x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 8.25 W/kg

Ch60/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.494 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 25.7 W/kg
SAR(1 g) = 3.95 W/kg; SAR(10 g) = 0.898 W/kg
Maximum value of SAR (measured) = 9.26 W/kg



0 dB = 9.26 W/kg

Meas.76 Body Plane with Left Edge 0mm on 116 Channel in IEEE802.11a mode

Date: 2021.02.27

Communication System Band: WLAN(a); Frequency: 5580 MHz;Duty Cycle: 1:1.025

Medium parameters used (interpolated): f = 5580 MHz; σ = 5.048 S/m; ε_r = 36.081; ρ = 1000 kg/m^3

Phantom section: Flat Section

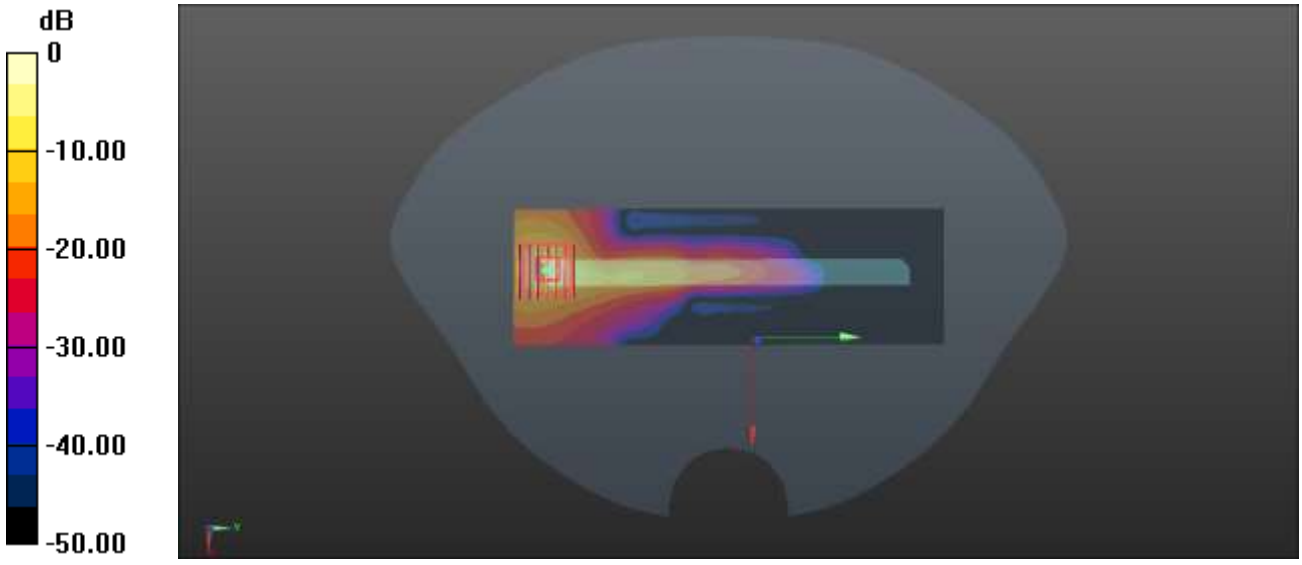
Ambient Temperature:22.7 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(4.85, 4.85, 4.85); Calibrated: 2020.08.07;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP: 1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch116/Area Scan (61x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 9.07 W/kg

Ch116/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 4.231 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 40.9 W/kg
SAR(1 g) = 5.82 W/kg; SAR(10 g) = 1.23 W/kg
Maximum value of SAR (measured) = 14.5 W/kg



0 dB = 14.5 W/kg

Meas.77 Left Head with Cheek on Low Channel in Bluetooth mode

Date: 2021.03.01

Communication System Band: BT; Frequency: 2402 MHz;Duty Cycle: 1:1.299

Medium parameters used: f = 2402 MHz; σ = 1.728 S/m; ε_r = 39.559; ρ = 1000 kg/m^3

Phantom section: Left Section

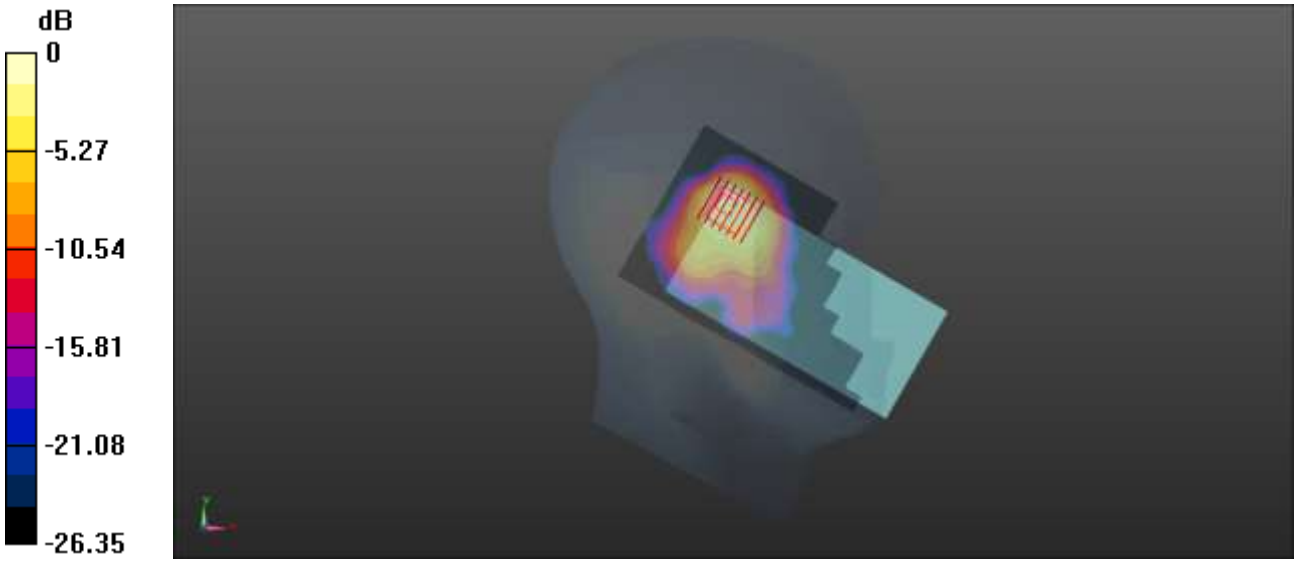
Ambient Temperature:22.6 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.66, 7.66, 7.66); Calibrated: 2020.08.07;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch0/Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.249 W/kg

Ch0/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.939 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.470 W/kg
SAR(1 g) = 0.213 W/kg; SAR(10 g) = 0.099 W/kg
Maximum value of SAR (measured) = 0.234 W/kg



0 dB = 0.234 W/kg

Meas.78 Body Plane with Front Side 15mm on Low Channel in Bluetooth mode

Date: 2021.03.01

Communication System Band: BT; Frequency: 2402 MHz;Duty Cycle: 1:1.299

Medium parameters used: f = 2402 MHz; σ = 1.728 S/m; ε_r = 39.559; ρ = 1000 kg/m^3

Phantom section: Flat Section

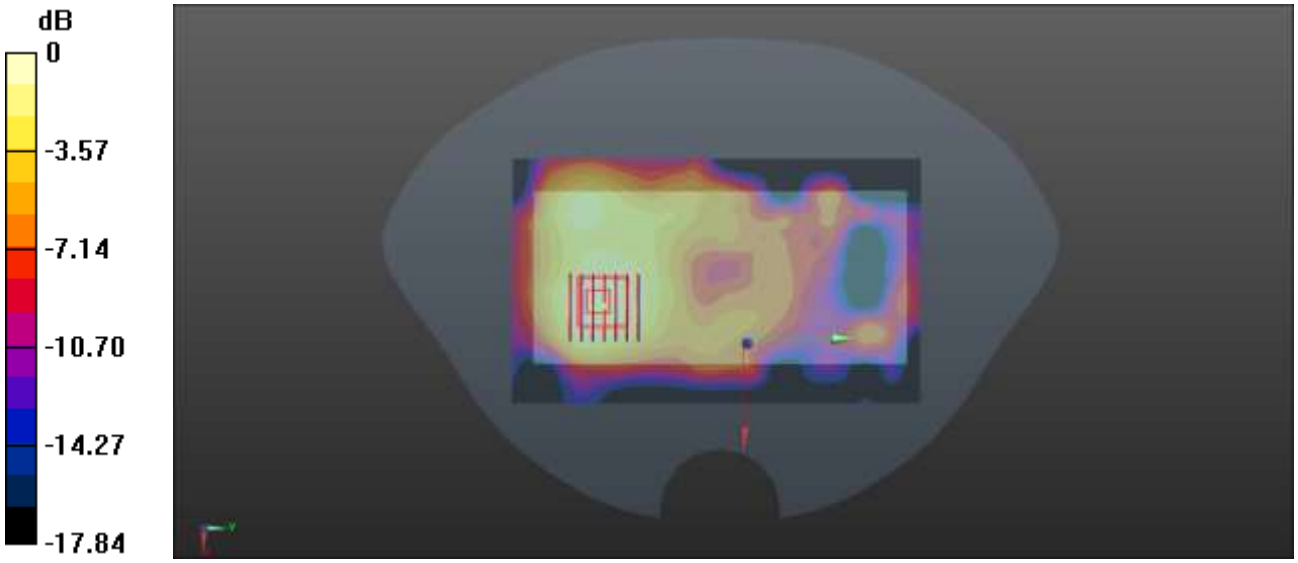
Ambient Temperature:22.6 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.66, 7.66, 7.66); Calibrated: 2020.08.07;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch0/Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0228 W/kg

Ch0/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.646 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.0440 W/kg
SAR(1 g) = 0.022 W/kg; SAR(10 g) = 0.012 W/kg
Maximum value of SAR (measured) = 0.0244 W/kg



0 dB = 0.0244 W/kg

Meas.79 Body Plane with Top Side 10mm on Low Channel in Bluetooth mode

Date: 2021.03.01

Communication System Band: BT; Frequency: 2402 MHz;Duty Cycle: 1:1.299

Medium parameters used: f = 2402 MHz; σ = 1.728 S/m; ε_r = 39.559; ρ = 1000 kg/m^3

Phantom section: Flat Section

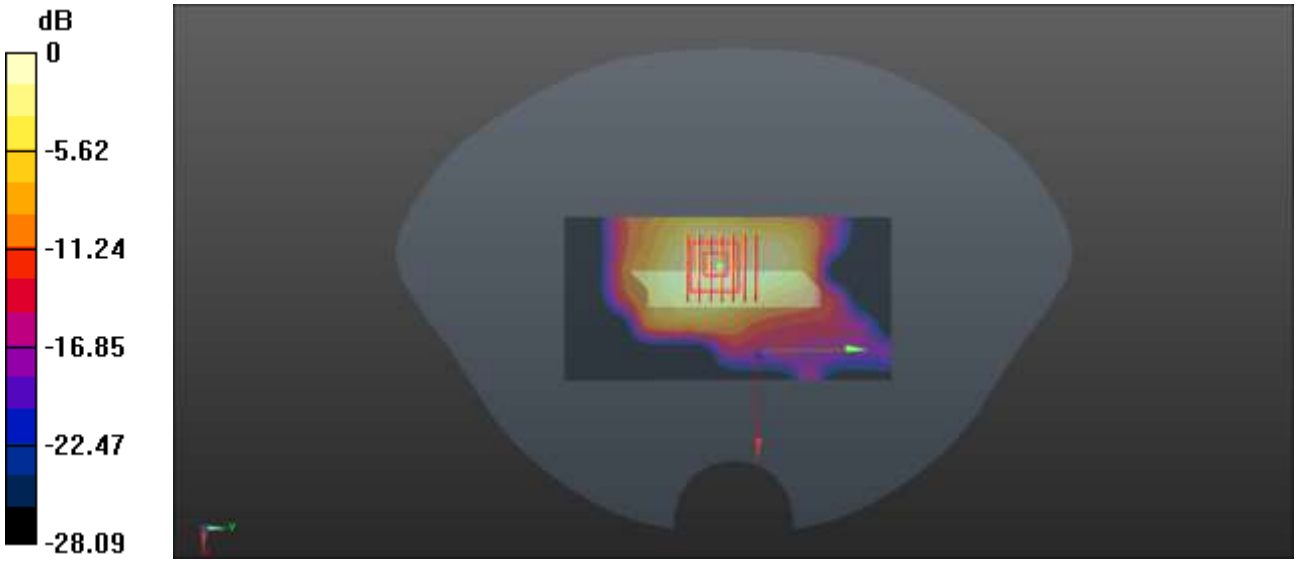
Ambient Temperature:22.6 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.66, 7.66, 7.66); Calibrated: 2020.08.07;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2020.09.30
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch0/Area Scan (61x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0471 W/kg

Ch0/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.051 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.0870 W/kg
SAR(1 g) = 0.043 W/kg; SAR(10 g) = 0.022 W/kg
Maximum value of SAR (measured) = 0.0483 W/kg



0 dB = 0.0483 W/kg

ANNEX D EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2210074-AW.pdf”.

ANNEX E SAR TEST SETUP PHOTOS

Please refer the document “BL-SZ2210074-AS.pdf”.

ANNEX F CALIBRATION REPORT

Please refer the document “CALIBRATION REPORT.pdf”.

--END OF REPORT--