

SAR

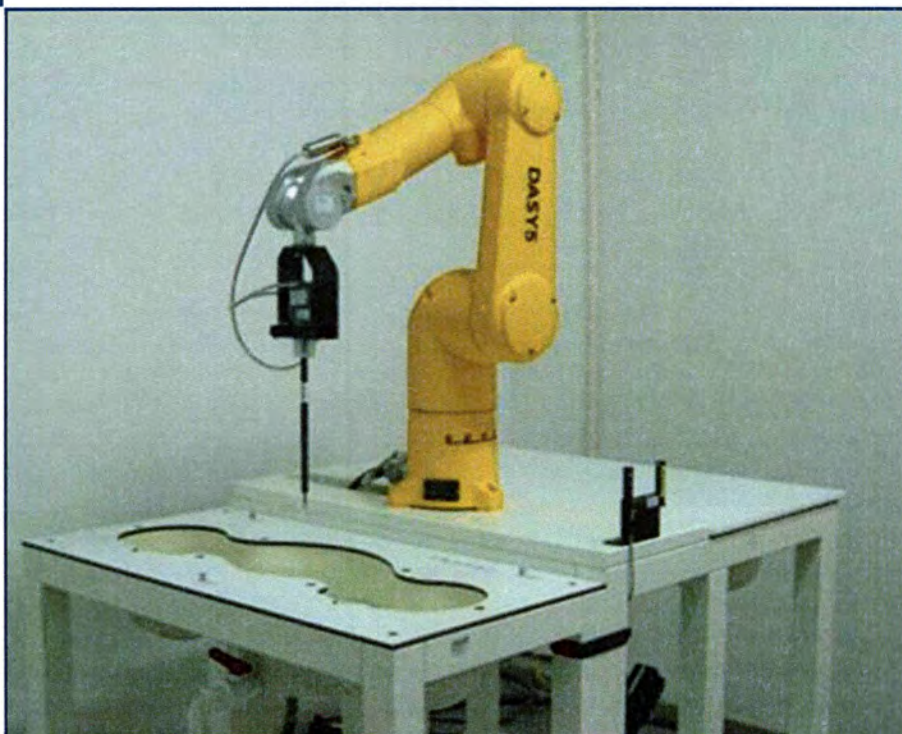
TEST REPORT

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: Zhang Jiwei

Date: Jul. 06, 2021

Approved by: Liao Jianming

(Technical Director)

Date: Jul. 06, 2021

Report No.: BL-SZ2150983-701

EUT Name: Mobile Phone

Model Name: RMX3151

Brand Name: realme

FCC ID: 2AUYFRMX3151

Test Standard: FCC 47 CFR Part 2.1093
ANSI C95.1-1992, IEEE Std. 1528-2013

Maximum SAR: Head (1 g): 1.127 W/kg
Body (1 g): 0.618 W/kg
Hotspot (1 g): 0.575 W/kg

Test Conclusion: Pass

Test Date: Jun. 02, 2021 ~ Jun. 18, 2021

Date of Issue: Jul. 06, 2021

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Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Jul. 06, 2021</u>	<u>Initial Issue</u>

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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
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	20°C to 23°C
Ambient Relative Humidity	35% 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	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China

2.4 General Description for Equipment under Test (EUT)

EUT Name	Mobile Phone
Model Name Under Test	RMX3151
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	11
Software Version	realme UI V2.0
Dimensions (Approx.)	164.1 x 75.5 x 8.5 (mm)
Weight (Approx.)	Glass: 194g (with battery)

2.5 Ancillary Equipment

Ancillary Equipment 1	Li-Polymer Battery 1	
	Brand Name	realme
	Model No.	BLP877
	Serial No.	N/A
	Capacitance	Rated: 4890mAh/18.92Wh Typical: 5000mAh/19.35Wh
	Rated Voltage	3.87V
	Limited Voltage	4.45 V
	Manufacturer	Huizhou Desay Battery Co., LTD
Ancillary Equipment 2	Li-Polymer Battery (alternative) 2	
	Brand Name	realme
	Model No.	BLP877
	Serial No.	N/A
	Capacitance	Rated: 4890mAh/18.92Wh Typical: 5000mAh/19.35Wh
	Rated Voltage	3.87V
	Limited Voltage	4.45 V
	Manufacturer	Dongguan NVT Technology Co., Ltd.
Ancillary Equipment 3	Li-Polymer Battery (alternative) 3	
	Brand Name	realme
	Model No.	BLP877
	Serial No.	N/A
	Capacitance	Rated: 4890mAh/18.92Wh Typical: 5000mAh/19.35Wh
	Rated Voltage	3.87V
	Limited Voltage	4.45 V
	Manufacturer	TWS TECHNOLOGY (GUANGZHOU) LIMITED
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 Huizhou Desay Battery 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
	Bluetooth (BR+EDR+BLE)
	2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40)
	5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80)
	U-NII-1/2A/2C/3, GPS, GLONASS, BDS, Galileo, NFC
Note : The EUT is a mobile phone, which supports dual SIM card under the same transceiver. Each SIM supports GSM, WCDMA and LTE, 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, 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: 2535 ~ 2655 MHz	RX: 2535 ~ 2655 MHz
	LTE Band 66	TX: 1710 ~ 1780 MHz	RX: 2110 ~ 2180 MHz
	802.11b/g	2412 ~ 2462 MHz	
	802.11n(HT20/HT40)	2412 ~ 2462 MHz	
	802.11a	5150 ~ 5250 MHz	
		5250 ~ 5350 MHz	
		5470 ~ 5725 MHz	
		5725 ~ 5850 MHz	
	802.11n(HT20/HT40)	5150 ~ 5250 MHz	
		5250 ~ 5350 MHz	
		5470 ~ 5725 MHz	
		5725 ~ 5850 MHz	
	802.11ac(VHT20/VHT40/VHT80)	5150 ~ 5250 MHz	
		5250 ~ 5350 MHz	
		5470 ~ 5725 MHz	
		5725 ~ 5850 MHz	

	Bluetooth	2402 ~ 2480 MHz
Antenna Type	WWAN: Fixed Internal Antenna WLAN: Fixed Internal Antenna Bluetooth: Fixed Internal Antenna	
DTM	Not Support	
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 2/3/4G transmitter for held-to-ear exposure conditions. 2. The device utilizes independent power reduction mechanisms for SAR compliance for the 2/3/4G transmitter for near to body exposure conditions. 3. The reduction power details please refer section 8.6.		

3 SUMMARY OF TEST RESULT

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 2.1093	Radiofrequency radiation exposure evaluation: portable devices
2	ANSI C95.1-1992	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

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/ Controlled Exposure
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	0.716	0.399	0.497	1.127	0.618	0.575
GSM 1900	0.473	0.372	0.339			
WCDMA Band 2	0.709	0.245	0.575			
WCDMA Band 4	0.893	0.239	0.553			
WCDMA Band 5	0.495	0.171	0.175			
LTE Band 2	0.653	0.268	0.551			
LTE Band 5	0.531	0.195	0.202			
LTE Band 7	0.436	0.568	0.413			
LTE Band 12	0.052	0.245	0.253			
LTE Band 26	0.470	0.181	0.236			
LTE Band 66	1.081	0.210	0.529			
LTE Band 38	0.719	0.266	0.406			
LTE Band 41	0.616	0.239	0.347			
2.4G WLAN	1.045	0.277	0.165			
5.2G WLAN	/	/	0.279			
5.3G WLAN	1.127	0.536	/			
5.6G WLAN	1.117	0.618	/			
5.8G WLAN	0.467	0.551	0.143			
Bluetooth	0.393	0.058	0.139			
Limit (W/kg)	1.6			1.6		
Verdict	PASS					
Note: This device supports both LTE Band 4/17 and Band 66/12. Since the supported frequency span for LTE Band 4 falls completely within the supports frequency span for LTE Band 66, 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 66/12.						

3.3.2 Highest Specific SAR (10 g Value)

Band	Maximum Scaled SAR (W/kg)	Maximum Report SAR (W/kg)
	Specific 10g	
5.3G WLAN	2.066	2.193
5.6G WLAN	2.193	
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)	GSM 850 + 5G WIFI + Bluetooth	1.413	1.6	Pass
Body-worn Accessory (1g)	GSM 850 + 5G WIFI + Bluetooth	0.567	1.6	Pass
Hotspot (1g)	WCDMA B4 + 5G WIFI + Bluetooth	0.971	1.6	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 1.127 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 2.193 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:

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

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

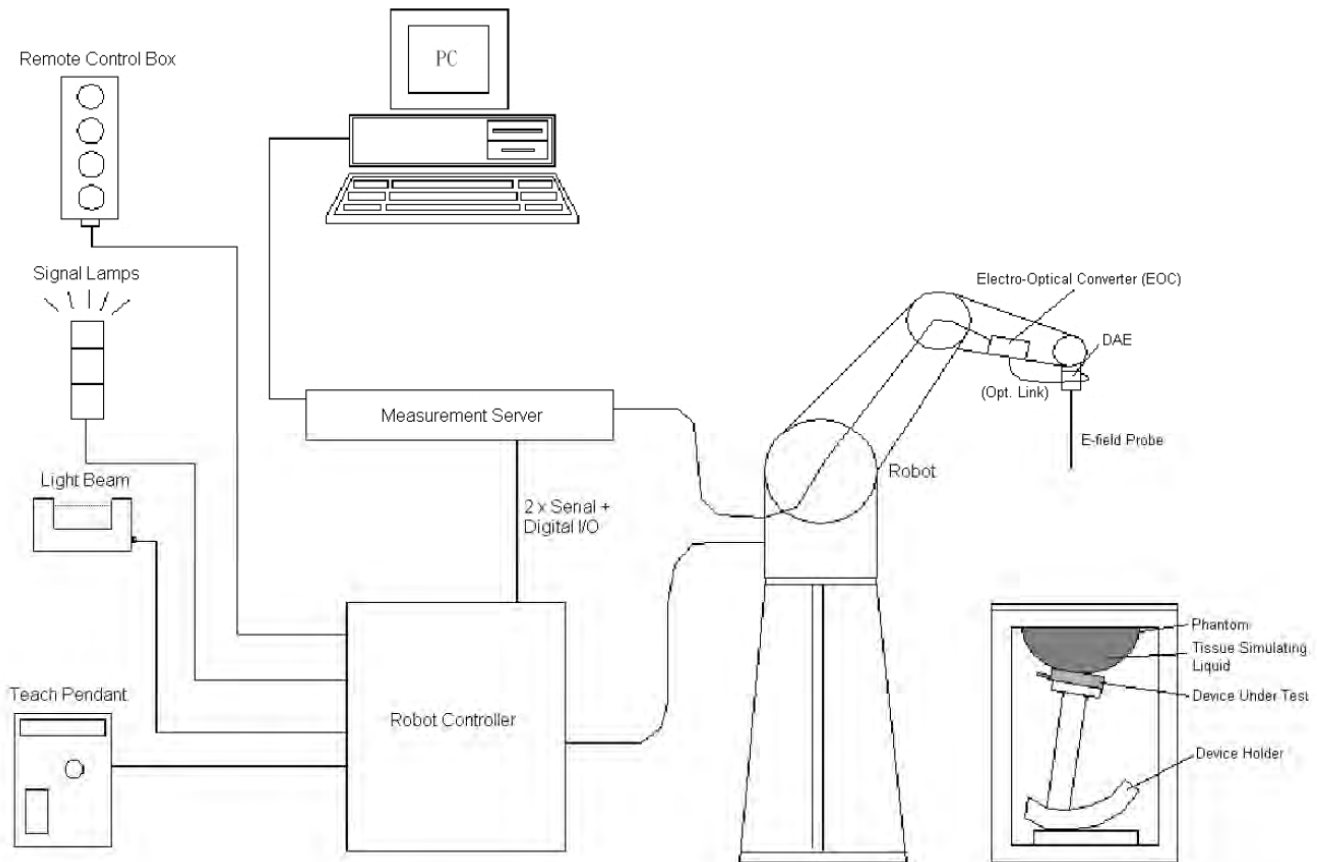
$$\text{SAR} = \frac{\sigma E^2}{\rho}$$

Where: 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 system Built-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 μ W/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: 200M Ω m
- The Inputs: Symmetrical and Floating
- Commom Mode Rejection: Above 80dB

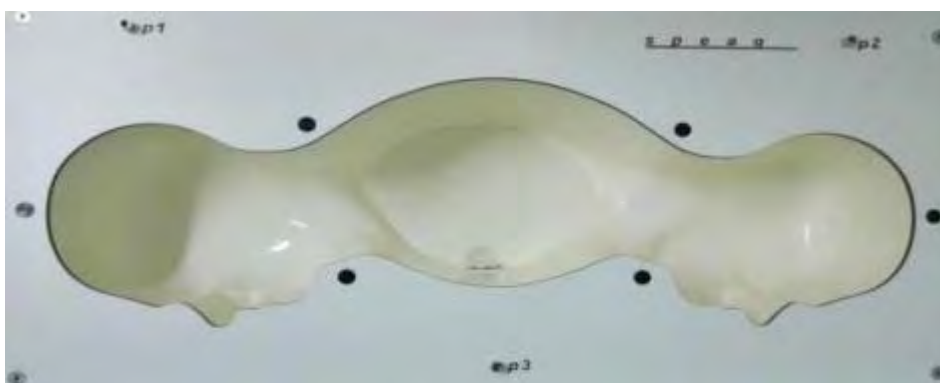
4.2.5 Phantoms

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

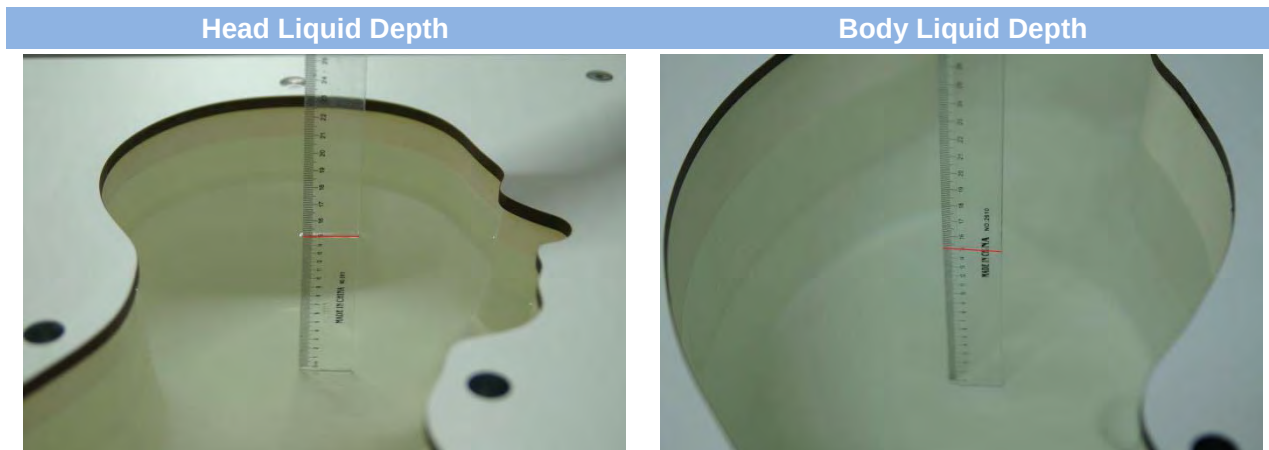
The DASY device holder has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of 65° . The bottom plate contains three pair of bolts for 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. In compliance 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%.



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

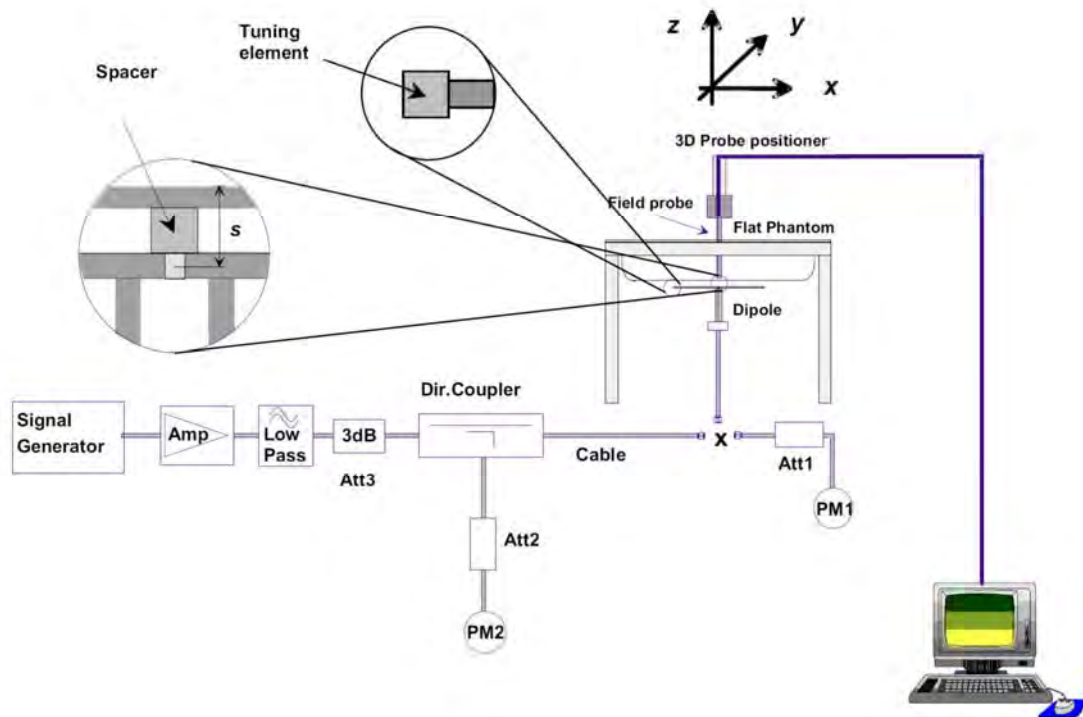
5 SYSTEM VERIFICATION

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

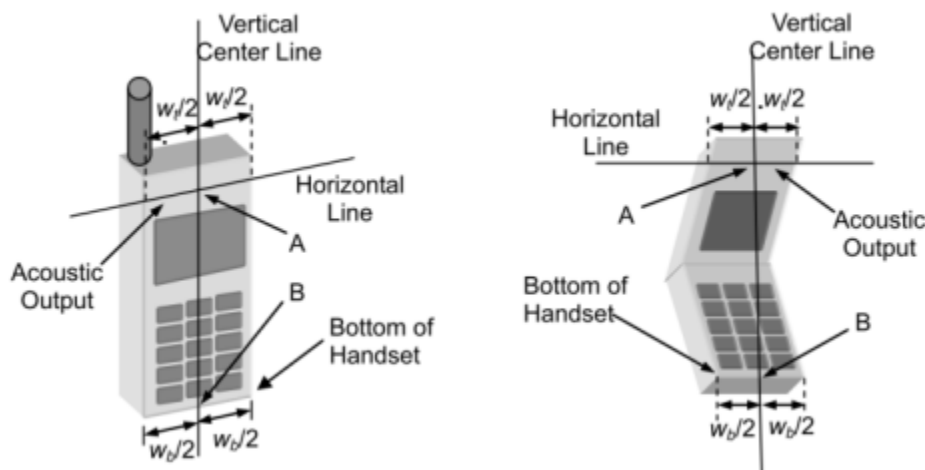
According to KDB 648474 D04 Handset, handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

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.

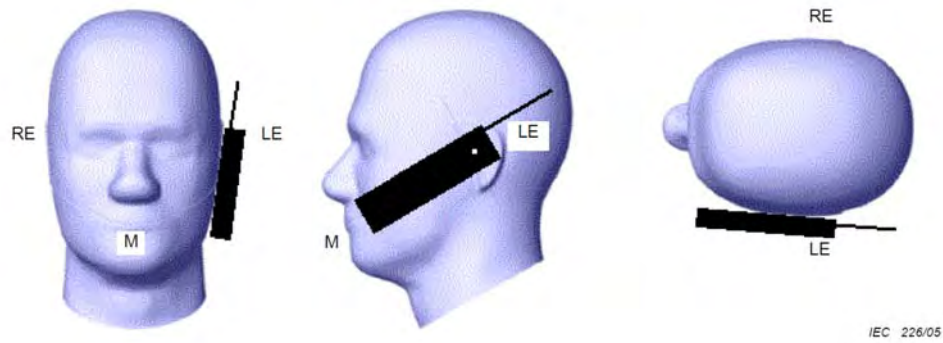
6.1.1 Two Imaginary Lines on the Handset

- 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.
- 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.
- 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.



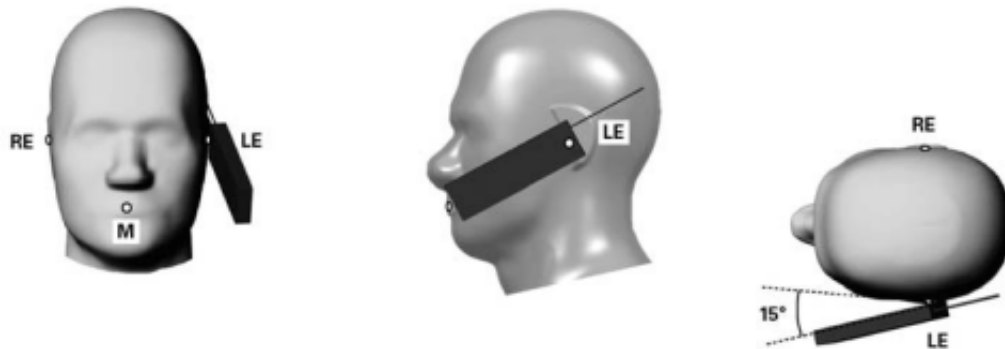
6.1.2 Cheek Position

- 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.
- 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

- To position the device in the "cheek" position described above.
- 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.

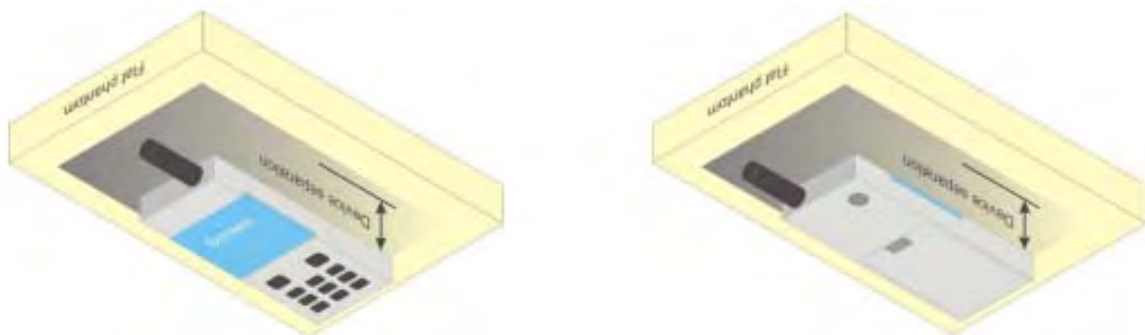


6.2 Body-worn Position Conditions

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.

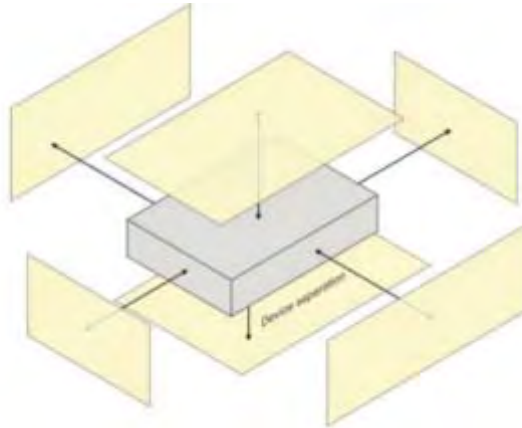
Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics.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



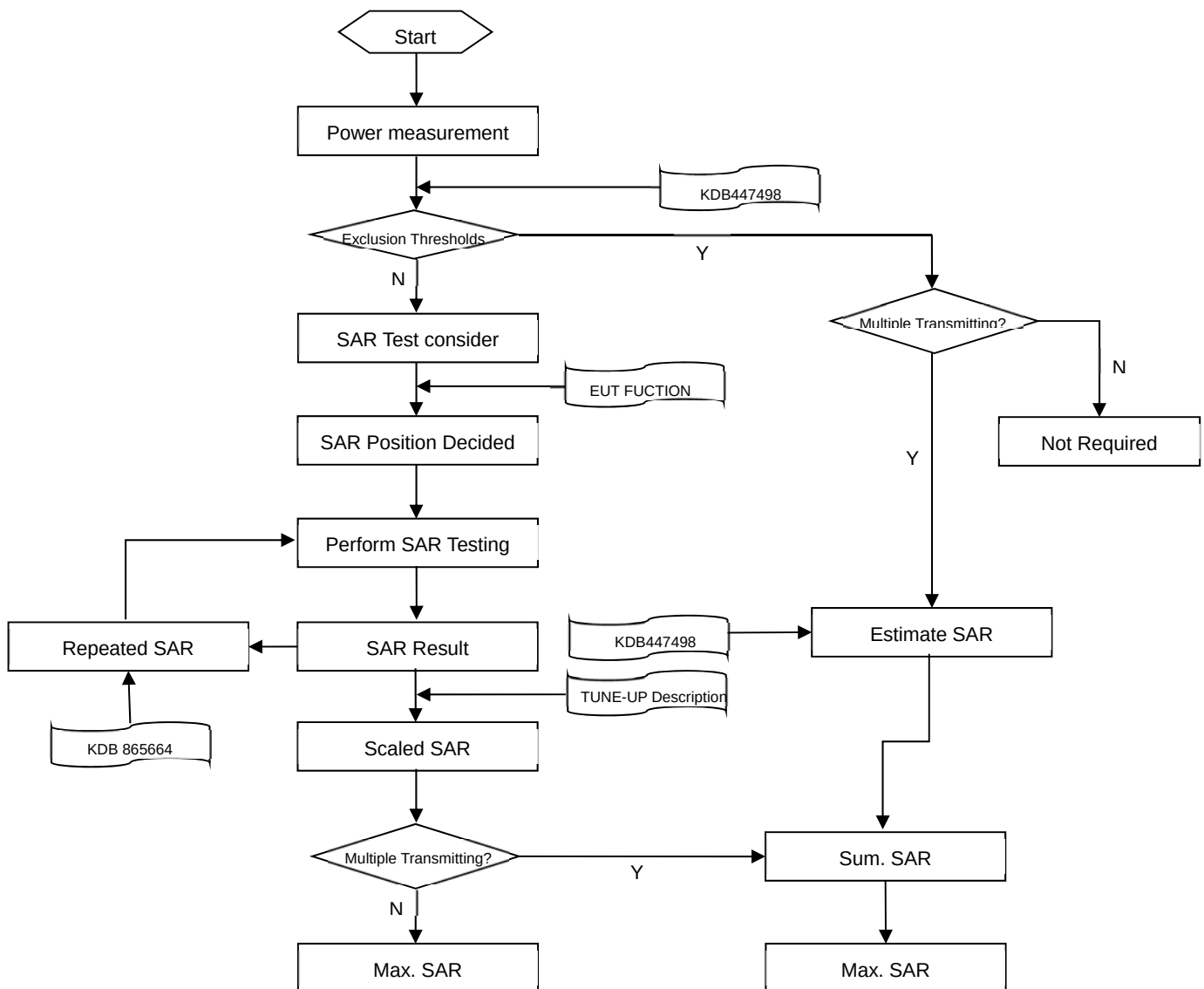
6.4 Product Specific 10g Exposure Consideration

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. Both the 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.

			≤3GHz	>3GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			5±1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location			30°±1°	20°±1°
Maximum area scan spatial resolution: Δx Area , Δy Area			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3–4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
			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.	
Maximum zoom scan spatial resolution: Δx Zoom , Δy Zoom			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3–4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: Δz Zoom (n)		≤ 5 mm	3–4 GHz: ≤ 4 mm
				4–5 GHz: ≤ 3 mm
				5–6 GHz: ≤ 2 mm
	graded grid	Δz Zoom (1): between 1st two points closest to phantom surface	≤ 4 mm	3–4 GHz: ≤ 3 mm
				4–5 GHz: ≤ 2.5 mm
		Δz Zoom (n>1): between subsequent points	≤ 1.5·Δz Zoom (n-1)	
Minimum zoom scan volume	x, y, z		≥30 mm	3–4 GHz: ≥ 28 mm
				4–5 GHz: ≥ 25 mm
				5–6 GHz: ≥ 22 mm
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.				

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 to 16 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 WIFI

8.4.1 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	14.03	16.00	No
		2	2417	18.61	20.00	No
		6	2437	18.65	20.00	Yes
		10	2457	18.60	20.00	No
		11	2462	13.74	15.50	No
	802.11g	1	2412	16.17	18.00	No
		2	2417	17.31	19.00	No
		6	2437	17.33	19.00	No
		10	2457	17.24	19.00	No
		11	2462	11.66	13.50	No
	802.11n(HT20)	1	2412	15.85	17.50	No
		2	2417	17.15	19.00	No
		6	2437	17.11	19.00	No
		8	2447	17.28	19.00	No
		9	2452	15.24	17.00	No
		10	2457	12.76	14.50	No
		11	2462	11.65	13.50	No
	802.11n(HT40)	3	2422	13.70	15.50	No
		4	2427	14.63	16.50	No
		5	2432	15.03	17.00	No
		6	2437	15.38	17.00	No
		7	2442	12.10	14.00	No
		8	2447	12.18	14.00	No
		9	2452	11.37	13.00	No

8.4.2 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	17.02	18.50	No
		40	5200	17.75	19.00	No
		44	5220	17.76	19.00	No
		48	5240	17.31	19.00	No
	802.11n(HT20)	36	5180	16.93	18.50	No
		40	5200	17.40	19.00	No
		44	5220	17.59	19.00	No
		48	5240	17.43	19.00	No
	802.11n(HT40)	38	5190	14.06	15.50	No
		46	5230	17.56	19.00	No
	802.11ac(VHT20)	36	5180	16.72	18.50	No
		40	5200	17.51	19.00	No
		44	5220	17.20	19.00	No
		48	5240	17.34	19.00	No
	802.11ac(VHT40)	38	5190	14.14	16.00	No
		46	5230	17.34	19.00	No
	802.11ac(VHT80)	42	5210	14.23	16.00	No
5.3 (5.25~5.35)	802.11a	52	5260	17.27	19.00	No
		60	5300	17.17	19.00	No
		64	5320	14.77	16.50	No
	802.11n(HT20)	52	5260	17.46	19.00	No
		60	5300	17.56	19.00	No
		64	5320	14.92	15.50	No
	802.11n(HT40)	54	5270	17.69	19.00	Yes
		62	5310	13.66	15.00	No
	802.11ac(VHT20)	52	5260	17.38	19.00	No
		60	5300	17.54	19.00	No
		64	5320	14.99	16.50	No
	802.11ac(VHT40)	54	5270	17.60	19.00	No
		62	5310	14.07	15.50	No
	802.11ac(VHT80)	58	5290	13.53	15.00	No
5.6 (5.47~5.725)	802.11a	100	5500	15.25	17.00	No
		104	5520	17.17	19.00	No
		116	5580	17.51	19.00	No
		136	5680	17.53	19.00	No
		140	5700	14.16	16.00	No
		144	5720	17.62	19.00	No
	802.11n(HT20)	100	5500	14.32	16.00	No

		104	5520	17.35	19.00	No
		116	5580	17.21	19.00	No
		136	5680	17.31	19.00	No
		140	5700	13.81	15.50	No
		144	5720	17.46	19.00	No
	802.11n(HT40)	102	5510	12.04	13.50	No
		110	5550	17.13	19.00	No
		118	5590	17.20	19.00	No
		134	5670	17.37	19.00	No
		142	5710	17.21	19.00	No
	802.11ac(VHT20)	100	5500	14.18	16.00	No
		104	5520	17.44	19.00	No
		116	5580	17.47	19.00	No
		136	5680	17.58	19.00	No
		140	5700	15.46	17.00	No
		144	5720	17.65	19.00	No
	802.11ac(VHT40)	102	5510	14.01	15.50	No
		110	5550	17.52	19.00	No
		118	5590	17.16	19.00	No
		134	5670	17.21	19.00	No
		142	5710	17.27	19.00	No
	802.11ac(VHT80)	106	5530	13.18	15.00	Yes
		122	5610	15.12	17.00	Yes
		138	5690	17.37	19.00	Yes
5.8 (5.725~5.850)	802.11a	149	5745	17.32	19.00	No
		157	5785	17.65	19.00	No
		165	5825	17.37	19.00	No
	802.11n(HT20)	149	5745	17.56	19.00	No
		157	5785	17.64	19.00	No
		165	5825	17.54	19.00	No
	802.11n(HT40)	151	5755	17.20	19.00	No
		159	5795	17.15	19.00	No
	802.11ac(VHT20)	149	5745	17.33	19.00	No
		157	5785	17.31	19.00	No
		165	5825	17.55	19.00	No
	802.11ac(VHT40)	151	5755	17.27	19.00	No
		159	5795	17.30	19.00	No
	802.11ac(VHT80)	155	5775	17.57	19.00	Yes

8.5 Bluetooth

Mode	GFSK			$\pi/4$ -DQPSK		
Channel	0	39	78	0	39	78
Frequency (MHz)	2402	2441	2480	2402	2441	2480
Average Power (dBm)	11.10	10.35	11.06	10.30	9.41	10.30
Tune-Up Limit (dBm)	11.50	11.50	11.50	11.50	11.00	11.50
Mode	8-DPSK			/		
Channel	0	39	78	/	/	/
Frequency (MHz)	2402	2441	2480	/	/	/
Average Power (dBm)	10.16	9.23	10.17	/	/	/
Tune-Up Limit (dBm)	11.50	11.00	11.50	/	/	/
Mode	BLE-1Mbps			BLE-2Mbps		
Channel	0	19	39	0	19	39
Frequency (MHz)	2402	2440	2480	2402	2440	2480
Average Power (dBm)	-2.28	-1.96	-1.77	-2.15	-1.80	-1.60
Tune-Up Limit (dBm)	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00

8.6 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 Antenna Up Reduced Power Level Table

Reduced Level	Receiver state	Antenna	Transmitting conditions	Band
Level1	Receiver on	Up	WWAN Only	GSM 850,1900;WCDMA B2,4;LTE B2,4,7,66,38,41;
Level2	Receiver on	Up	WWAN + WLAN 2.4G	GSM 850,1900;WCDMA B2,4;LTE B2,4,5,7,66,38,41;
Level3	Receiver on	Up	WWAN + WLAN 5G	GSM 850,1900;WCDMA B2,4;LTE B2,4,5,7,66,38,41;
Level4	Receiver off	Up	WWAN Only	WCDMA B2,4;LTE B2,4,7,66
Level5	Receiver off	Up	WWAN + WLAN 2.4G	GSM 1900;WCDMA B2,4;LTE B2,4,5,7,66,38,41
Level6	Receiver off	Up	WWAN + WLAN 5G	GSM 1900;WCDMA B2,4;LTE B2,4,5,7,66,38,41

WWAN Antenna Down Reduced Power Level Table

Reduced Level	Receiver state	Antenna	Transmitting conditions	Band
Level1	Receiver on	Down	WWAN Only	/
Level2	Receiver on	Down	WWAN + WLAN 2.4G	/
Level3	Receiver on	Down	WWAN + WLAN 5G	/
Level4	Receiver off	Down	WWAN Only	WCDMA2,4;LTE B2,4,7,66
Level5	Receiver off	Down	WWAN + WLAN 2.4G	GSM850,GSM1900;WCDMA2,4,5;LTE B2,4,5,7,66,38,41
Level6	Receiver off	Down	WWAN + WLAN 5G	GSM850,GSM1900;WCDMA2,4,5;LTE B2,4,5,7,66,38,41

WLAN Reduced Power Level Table

Reduced Level	Receiver state	Transmitting conditions	Band
Level1	Receiver on	WLAN Only	WLAN2.4G,WLAN 5.2G,5.3G
Level2	Receiver on	WWAN + WLAN 2.4G	WLAN2.4G
Level3	Receiver on	WWAN + WLAN 5G	WLAN 5.2G,5.3G,5.6G
Level4	Receiver off	WLAN Only	/
Level5	Receiver off	WWAN + WLAN 2.4G	WLAN2.4G
Level6	Receiver off	WWAN + WLAN 5G	WLAN 5.2G,5.3G,5.6G,5.8G

WWAN Antenna UP

Mode	WWAN Antenna Up								
	Full Power	Receiver on			Receiver off				
		Head			Body-Worn			Hotspot	
		Standalone	Simultaneous transmission		Standalone	Simultaneous transmission		Simultaneous transmission	
			+2.4G WLAN	+5G WLAN		+2.4G WLAN	+5G WLAN	+2.4G WLAN	+5G WLAN
	Off	Level1	Level2	Level3	Level4	Level5	Level6	Level5	Level6
GSM850	33.50	30.50	30.50	30.50	33.50	33.50	33.50	33.50	33.50
GPRS850 1 Tx Slot	33.50	30.50	30.50	30.50	33.50	33.50	33.50	33.50	33.50
GPRS850 2 Tx Slots	31.50	28.50	28.50	28.50	31.50	31.50	31.50	31.50	31.50
GPRS850 3 Tx Slots	30.00	27.00	27.00	27.00	30.00	30.00	30.00	30.00	30.00
GPRS850 4 Tx Slots	29.00	26.00	26.00	26.00	29.00	29.00	29.00	29.00	29.00
EGPRS850 1 Tx Slot	27.00	24.00	24.00	24.00	27.00	27.00	27.00	27.00	27.00
EGPRS850 2 Tx Slots	25.50	22.50	22.50	22.50	25.50	25.50	25.50	25.50	25.50
EGPRS850 3 Tx Slots	24.50	21.50	21.50	21.50	24.50	24.50	24.50	24.50	24.50
EGPRS850 4 Tx Slots	23.50	20.50	20.50	20.50	23.50	23.50	23.50	23.50	23.50
GSM1900	30.50	24.50	23.50	23.50	30.50	26.50	26.50	26.50	26.50
GPRS1900 1 Tx Slot	30.50	24.50	23.50	23.50	30.50	26.50	26.50	26.50	26.50
GPRS1900 2 Tx Slots	28.50	22.50	21.50	21.50	28.50	24.50	24.50	24.50	24.50
GPRS1900 3 Tx Slots	27.50	21.50	20.50	20.50	27.50	23.50	23.50	23.50	23.50
GPRS1900 4 Tx Slots	25.50	19.50	18.50	18.50	25.50	21.50	21.50	21.50	21.50
EGPRS1900 1 Tx Slot	26.50	20.50	19.50	19.50	26.50	22.50	22.50	22.50	22.50
EGPRS1900 2 Tx Slots	25.00	19.00	18.00	18.00	25.00	21.00	21.00	21.00	21.00
EGPRS1900 3 Tx Slots	24.00	18.00	17.00	17.00	24.00	20.00	20.00	20.00	20.00
EGPRS1900 4 Tx Slots	22.50	16.50	15.50	15.50	22.50	18.50	18.50	18.50	18.50
WCDMA B2	24.00	18.00	17.00	17.00	21.00	20.00	20.00	20.00	20.00
HSDPA Subtest-1	23.00	17.50	16.50	16.50	20.50	19.50	19.50	19.50	19.50
HSDPA Subtest-2	23.00	17.50	16.50	16.50	20.50	19.50	19.50	19.50	19.50
HSDPA Subtest-3	22.50	17.00	16.00	16.00	20.00	19.00	19.00	19.00	19.00
HSDPA Subtest-4	22.50	17.00	16.00	16.00	20.00	19.00	19.00	19.00	19.00
DC-HSDPA Subtest-1	23.00	17.50	16.50	16.50	20.50	19.50	19.50	19.50	19.50
DC-HSDPA Subtest-2	23.00	17.50	16.50	16.50	20.50	19.50	19.50	19.50	19.50
DC-HSDPA Subtest-3	22.50	17.00	16.00	16.00	20.00	19.00	19.00	19.00	19.00
DC-HSDPA Subtest-4	22.50	17.00	16.00	16.00	20.00	19.00	19.00	19.00	19.00
HSUPA Subtest-1	23.50	16.50	15.50	15.50	19.50	18.50	18.50	18.50	18.50
HSUPA Subtest-2	21.50	15.50	14.50	14.50	18.50	17.50	17.50	17.50	17.50
HSUPA Subtest-3	22.50	16.50	15.50	15.50	19.50	18.50	18.50	18.50	18.50
HSUPA Subtest-4	21.50	15.50	14.50	14.50	18.50	17.50	17.50	17.50	17.50
HSUPA Subtest-5	23.50	17.50	16.50	16.50	20.50	19.50	19.50	19.50	19.50
WCDMA B4	24.00	19.50	18.50	18.50	22.00	21.00	21.00	21.00	21.00
HSDPA Subtest-1	23.00	19.00	18.00	18.00	21.50	20.50	20.50	20.50	20.50

HSDPA Subtest-2	23.00	19.00	18.00	18.00	21.50	20.50	20.50	20.50	20.50
HSDPA Subtest-3	22.50	18.50	17.50	17.50	21.00	20.00	20.00	20.00	20.00
HSDPA Subtest-4	22.50	18.50	17.50	17.50	21.00	20.00	20.00	20.00	20.00
DC-HSDPA Subtest-1	23.00	19.00	18.00	18.00	21.50	20.50	20.50	20.50	20.50
DC-HSDPA Subtest-2	23.00	19.00	18.00	18.00	21.50	20.50	20.50	20.50	20.50
DC-HSDPA Subtest-3	22.50	18.50	17.50	17.50	21.00	20.00	20.00	20.00	20.00
DC-HSDPA Subtest-4	22.50	18.50	17.50	17.50	21.00	20.00	20.00	20.00	20.00
HSUPA Subtest-1	23.50	18.00	17.00	17.00	20.50	19.50	19.50	19.50	19.50
HSUPA Subtest-2	21.50	17.00	16.00	16.00	19.50	18.50	18.50	18.50	18.50
HSUPA Subtest-3	22.50	18.00	17.00	17.00	20.50	19.50	19.50	19.50	19.50
HSUPA Subtest-4	21.50	17.00	16.00	16.00	19.50	18.50	18.50	18.50	18.50
HSUPA Subtest-5	23.50	19.00	18.00	18.00	21.50	20.50	20.50	20.50	20.50
WCDMA B5	24.30	24.30	24.30	24.30	24.30	24.30	24.30	24.30	24.30
HSDPA Subtest-1	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00
HSDPA Subtest-2	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00
HSDPA Subtest-3	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50
HSDPA Subtest-4	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50
DC-HSDPA Subtest-1	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00
DC-HSDPA Subtest-2	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00
DC-HSDPA Subtest-3	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50
DC-HSDPA Subtest-4	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50
HSUPA Subtest-1	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.50
HSUPA Subtest-2	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50
HSUPA Subtest-3	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50
HSUPA Subtest-4	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50
HSUPA Subtest-5	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.50
LTE B2	24.00	18.00	17.00	17.00	21.00	20.00	20.00	20.00	20.00
LTE B4	24.00	19.50	18.50	18.50	22.00	21.00	21.00	21.00	21.00
LTE B5	24.50	24.50	23.50	23.50	24.50	23.50	23.50	23.50	23.50
LTE B7	24.40	15.00	14.00	14.00	23.50	18.50	18.50	18.50	18.50
LTE B12	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50
LTE B17	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50
LTE B26	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50
LTE B66	24.00	19.50	18.50	18.50	22.00	21.00	21.00	21.00	21.00
LTE B38	24.00	20.00	19.00	19.00	24.00	23.00	23.00	23.00	23.00
LTE B41	24.00	20.00	19.00	19.00	24.00	23.00	23.00	23.00	23.00

WWAN Antenna Down

Mode	WWAN Antenna Down								
	Full Power	Receiver on			Receiver off				
		Head			Body-Worn			Hotspot	
		Standalone	Simultaneous transmission		Standalone	Simultaneous transmission		Simultaneous transmission	
			+2.4G WLAN	+5G WLAN		+2.4G WLAN	+5G WLAN	+2.4G WLAN	+5G WLAN
	Off	Level1	Level2	Level3	Level4	Level5	Level6	Level5	Level6
GSM850	33.50	33.50	33.50	33.50	33.50	32.50	32.50	32.50	32.50
GPRS850 1 Tx Slot	33.50	33.50	33.50	33.50	33.50	32.50	32.50	32.50	32.50
GPRS850 2 Tx Slots	31.50	31.50	31.50	31.50	31.50	30.50	30.50	30.50	30.50
GPRS850 3 Tx Slots	30.00	30.00	30.00	30.00	30.00	29.00	29.00	29.00	29.00
GPRS850 4 Tx Slots	29.00	29.00	29.00	29.00	29.00	28.00	28.00	28.00	28.00
EGPRS850 1 Tx Slot	27.00	27.00	27.00	27.00	27.00	26.00	26.00	26.00	26.00
EGPRS850 2 Tx Slots	25.50	25.50	25.50	25.50	25.50	24.50	24.50	24.50	24.50
EGPRS850 3 Tx Slots	24.50	24.50	24.50	24.50	24.50	23.50	23.50	23.50	23.50
EGPRS850 4 Tx Slots	23.50	23.50	23.50	23.50	23.50	22.50	22.50	22.50	22.50
GSM1900	30.50	30.50	30.50	30.50	30.50	26.50	26.50	26.50	26.50
GPRS1900 1 Tx Slot	30.50	30.50	30.50	30.50	30.50	26.50	26.50	26.50	26.50
GPRS1900 2 Tx Slots	28.50	28.50	28.50	28.50	28.50	24.50	24.50	24.50	24.50
GPRS1900 3 Tx Slots	27.50	27.50	27.50	27.50	27.50	23.50	23.50	23.50	23.50
GPRS1900 4 Tx Slots	25.50	25.50	25.50	25.50	25.50	21.50	21.50	21.50	21.50
EGPRS1900 1 Tx Slot	26.50	26.50	26.50	26.50	26.50	22.50	22.50	22.50	22.50
EGPRS1900 2 Tx Slots	25.00	25.00	25.00	25.00	25.00	21.00	21.00	21.00	21.00
EGPRS1900 3 Tx Slots	24.00	24.00	24.00	24.00	24.00	20.00	20.00	20.00	20.00
EGPRS1900 4 Tx Slots	22.50	22.50	22.50	22.50	22.50	18.50	18.50	18.50	18.50
WCDMA B2	24.00	24.00	24.00	24.00	21.00	20.00	20.00	20.00	20.00
HSDPA Subtest-1	23.00	23.00	23.00	23.00	20.50	19.50	19.50	19.50	19.50
HSDPA Subtest-2	23.00	23.00	23.00	23.00	20.50	19.50	19.50	19.50	19.50
HSDPA Subtest-3	22.50	22.50	22.50	22.50	20.00	19.00	19.00	19.00	19.00
HSDPA Subtest-4	22.50	22.50	22.50	22.50	20.00	19.00	19.00	19.00	19.00
DC-HSDPA Subtest-1	23.00	23.00	23.00	23.00	20.50	19.50	19.50	19.50	19.50
DC-HSDPA Subtest-2	23.00	23.00	23.00	23.00	20.50	19.50	19.50	19.50	19.50
DC-HSDPA Subtest-3	22.50	22.50	22.50	22.50	20.00	19.00	19.00	19.00	19.00
DC-HSDPA Subtest-4	22.50	22.50	22.50	22.50	20.00	19.00	19.00	19.00	19.00
HSUPA Subtest-1	23.50	23.50	23.50	23.50	19.50	18.50	18.50	18.50	18.50
HSUPA Subtest-2	21.50	21.50	21.50	21.50	18.50	17.50	17.50	17.50	17.50
HSUPA Subtest-3	22.50	22.50	22.50	22.50	19.50	18.50	18.50	18.50	18.50
HSUPA Subtest-4	21.50	21.50	21.50	21.50	18.50	17.50	17.50	17.50	17.50
HSUPA Subtest-5	23.50	23.50	23.50	23.50	20.50	19.50	19.50	19.50	19.50
WCDMA B4	24.00	24.00	24.00	24.00	21.00	20.00	20.00	20.00	20.00
HSDPA Subtest-1	23.00	23.00	23.00	23.00	20.50	19.50	19.50	19.50	19.50

HSDPA Subtest-2	23.00	23.00	23.00	23.00	20.50	19.50	19.50	19.50	19.50
HSDPA Subtest-3	22.50	22.50	22.50	22.50	20.00	19.00	19.00	19.00	19.00
HSDPA Subtest-4	22.50	22.50	22.50	22.50	20.00	19.00	19.00	19.00	19.00
DC-HSDPA Subtest-1	23.00	23.00	23.00	23.00	20.50	19.50	19.50	19.50	19.50
DC-HSDPA Subtest-2	23.00	23.00	23.00	23.00	20.50	19.50	19.50	19.50	19.50
DC-HSDPA Subtest-3	22.50	22.50	22.50	22.50	20.00	19.00	19.00	19.00	19.00
DC-HSDPA Subtest-4	22.50	22.50	22.50	22.50	20.00	19.00	19.00	19.00	19.00
HSUPA Subtest-1	23.50	23.50	23.50	23.50	19.50	18.50	18.50	18.50	18.50
HSUPA Subtest-2	21.50	21.50	21.50	21.50	18.50	17.50	17.50	17.50	17.50
HSUPA Subtest-3	22.50	22.50	22.50	22.50	19.50	18.50	18.50	18.50	18.50
HSUPA Subtest-4	21.50	21.50	21.50	21.50	18.50	17.50	17.50	17.50	17.50
HSUPA Subtest-5	23.50	23.50	23.50	23.50	20.50	19.50	19.50	19.50	19.50
WCDMA B5	24.30	24.30	24.30	24.30	24.30	23.30	23.30	23.30	23.30
HSDPA Subtest-1	23.00	23.00	23.00	23.00	23.50	22.50	22.50	22.50	22.50
HSDPA Subtest-2	23.00	23.00	23.00	23.00	23.50	22.50	22.50	22.50	22.50
HSDPA Subtest-3	22.50	22.50	22.50	22.50	23.00	22.00	22.00	22.00	22.00
HSDPA Subtest-4	22.50	22.50	22.50	22.50	23.00	22.00	22.00	22.00	22.00
DC-HSDPA Subtest-1	23.00	23.00	23.00	23.00	23.50	22.50	22.50	22.50	22.50
DC-HSDPA Subtest-2	23.00	23.00	23.00	23.00	23.50	22.50	22.50	22.50	22.50
DC-HSDPA Subtest-3	22.50	22.50	22.50	22.50	23.00	22.00	22.00	22.00	22.00
DC-HSDPA Subtest-4	22.50	22.50	22.50	22.50	23.00	22.00	22.00	22.00	22.00
HSUPA Subtest-1	23.50	23.50	23.50	23.50	22.50	21.50	21.50	21.50	21.50
HSUPA Subtest-2	21.50	21.50	21.50	21.50	21.50	20.50	20.50	20.50	20.50
HSUPA Subtest-3	22.50	22.50	22.50	22.50	22.50	21.50	21.50	21.50	21.50
HSUPA Subtest-4	21.50	21.50	21.50	21.50	21.50	20.50	20.50	20.50	20.50
HSUPA Subtest-5	23.50	23.50	23.50	23.50	23.50	22.50	22.50	22.50	22.50
LTE B2	24.00	24.00	24.00	24.00	21.00	20.00	20.00	20.00	20.00
LTE B4	24.00	24.00	24.00	24.00	21.00	20.00	20.00	20.00	20.00
LTE B5	24.50	24.50	24.50	24.50	24.50	23.50	23.50	23.50	23.50
LTE B7	24.40	24.40	24.40	24.40	23.50	18.50	18.50	18.50	18.50
LTE B12	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50
LTE B17	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50
LTE B26	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50
LTE B66	24.00	24.00	24.00	24.00	21.00	20.00	20.00	20.00	20.00
LTE B38	24.00	24.00	24.00	24.00	24.00	22.00	22.00	22.00	22.00
LTE B41	24.00	24.00	24.00	24.00	24.00	21.00	21.00	21.00	21.00

WLAN Antenna

Mode	WLAN Antenna								
	Full Power	Receiver on			Receiver off				
		Standalone	Simultaneous transmission		Standalone	Simultaneous transmission		Simultaneous transmission	
			WWAN+2 .4G WIFI	WWAN+5 G WIFI		WWAN+2 .4G WIFI	WWAN+5 G WIFI	WWAN+2 .4G WIFI	WWAN+5 G WIFI
	Off	Level1	Level2	Level3	Level4	Level5	Level6	Level5	Level6
2.4G WLAN 802.11b	20.00	17.00	14.50	/	20.00	14.50	/	14.50	/
2.4G WLAN 802.11g	19.00	17.00	14.50	/	19.00	14.50	/	14.50	/
2.4G WLAN 802.11n20	19.00	17.00	14.50	/	19.00	14.50	/	14.50	/
2.4G WLAN 802.11n40	17.00	17.00	14.50	/	17.00	14.50	/	14.50	/
5.2G WLAN 802.11a	19.00	15.50	/	12.50	19.00	/	14.00	/	14.00
5.2G WLAN 802.11n20	19.00	15.50	/	12.50	19.00	/	14.00	/	14.00
5.2G WLAN 802.11n40	19.00	15.50	/	12.50	19.00	/	14.00	/	14.00
5.2G WLAN 802.11ac20	19.00	15.50	/	12.50	19.00	/	14.00	/	14.00
5.2G WLAN 802.11ac40	19.00	15.50	/	12.50	19.00	/	13.00	/	13.00
5.2G WLAN 802.11ac80	16.00	15.00	/	12.50	16.00	/	13.00	/	13.00
5.3G WLAN 802.11a	19.00	15.50	/	12.50	19.00	/	14.00	/	/
5.3G WLAN 802.11n20	19.00	15.50	/	12.50	19.00	/	14.00	/	/
5.3G WLAN 802.11n40	19.00	15.50	/	12.50	19.00	/	14.00	/	/
5.3G WLAN 802.11ac20	19.00	15.50	/	12.50	19.00	/	14.00	/	/
5.3G WLAN 802.11ac40	19.00	15.50	/	12.50	19.00	/	13.00	/	/
5.3G WLAN 802.11ac80	15.00	15.00	/	12.50	15.00	/	13.00	/	/
5.6G WLAN 802.11a	19.00	19.00	/	16.00	19.00	/	13.00	/	/
5.6G WLAN 802.11n20	19.00	19.00	/	16.00	19.00	/	13.00	/	/
5.6G WLAN 802.11n40	19.00	19.00	/	16.00	19.00	/	13.00	/	/
5.6G WLAN 802.11ac20	19.00	19.00	/	16.00	19.00	/	13.00	/	/
5.6G WLAN 802.11ac40	19.00	19.00	/	16.00	19.00	/	12.00	/	/
5.6G WLAN 802.11ac80	19.00	19.00	/	16.00	19.00	/	12.00	/	/
5.8G WLAN 802.11a	19.00	19.00	/	19.00	19.00	/	14.00	/	14.00
5.8G WLAN 802.11n20	19.00	19.00	/	19.00	19.00	/	14.00	/	14.00
5.8G WLAN 802.11n40	19.00	19.00	/	19.00	19.00	/	14.00	/	14.00
5.8G WLAN 802.11ac20	19.00	19.00	/	19.00	19.00	/	14.00	/	14.00
5.8G WLAN 802.11ac40	19.00	19.00	/	19.00	19.00	/	13.00	/	13.00
5.8G LAN 802.11ac80	19.00	19.00	/	19.00	19.00	/	13.00	/	13.00
Bluetooth	11.50	11.50	11.50	11.50	11.50	11.50	11.50	11.50	11.50

8.6.1 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	14.03	16.00	No
		2	2417	15.58	17.00	Yes
		6	2437	15.59	17.00	Yes
		10	2457	15.43	17.00	Yes
		11	2462	13.74	15.50	No
	802.11g	1	2412	15.24	17.00	No
		6	2437	15.15	17.00	No
		7	2442	15.38	17.00	No
		10	2457	15.30	17.00	No
		11	2462	11.66	13.50	No
	802.11n(HT20)	1	2412	15.35	17.00	No
		6	2437	15.11	17.00	No
		9	2452	15.22	17.00	No
		10	2457	12.76	14.50	No
		11	2462	11.65	13.50	No
	802.11n(HT40)	3	2422	13.70	15.50	No
		4	2427	14.63	16.50	No
		5	2432	15.03	17.00	No
		6	2437	15.38	17.00	No
		7	2442	12.10	14.00	No
		8	2447	12.18	14.00	No
		9	2452	11.37	13.00	No

8.6.2 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	12.53	14.50	No
		6	2437	12.89	14.50	No
		11	2462	12.91	14.50	Yes
	802.11g	1	2412	12.85	14.50	No
		6	2437	12.63	14.50	No
		10	2457	12.74	14.50	No
		11	2462	11.66	13.50	No
	802.11n(HT20)	1	2412	12.98	14.50	No
		6	2437	12.83	14.50	No
		10	2457	12.76	14.50	No
		11	2462	11.65	13.50	No
	802.11n(HT40)	3	2422	12.75	14.50	No
		6	2437	12.89	14.50	No
		7	2442	12.10	14.00	No
		8	2447	12.18	14.00	No
		9	2452	11.37	13.00	No

8.6.3 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	14.03	16.00	No
		2	2417	18.61	20.00	No
		6	2437	18.65	20.00	Yes
		10	2457	18.60	20.00	No
		11	2462	13.74	15.50	No
	802.11g	1	2412	16.17	18.00	No
		2	2417	17.31	19.00	No
		6	2437	17.33	19.00	No
		10	2457	17.24	19.00	No
		11	2462	11.66	13.50	No
	802.11n(HT20)	1	2412	15.85	17.50	No
		2	2417	17.15	19.00	No
		6	2437	17.11	19.00	No
		8	2447	17.28	19.00	No
		9	2452	15.24	17.00	No
		10	2457	12.76	14.50	No
		11	2462	11.65	13.50	No
	802.11n(HT40)	3	2422	13.70	15.50	No
		4	2427	14.63	16.50	No
		5	2432	15.03	17.00	No
		6	2437	15.38	17.00	No
		7	2442	12.10	14.00	No
		8	2447	12.18	14.00	No
		9	2452	11.37	13.00	No

8.6.4 Power Reduced Level 5 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	12.53	14.50	No
		6	2437	12.89	14.50	No
		11	2462	12.91	14.50	Yes
	802.11g	1	2412	12.85	14.50	No
		6	2437	12.63	14.50	No
		10	2457	12.74	14.50	No
		11	2462	11.66	13.50	No
	802.11n(HT20)	1	2412	12.98	14.50	No
		6	2437	12.83	14.50	No
		10	2457	12.76	14.50	No
		11	2462	11.65	13.50	No
	802.11n(HT40)	3	2422	12.75	14.50	No
		6	2437	12.89	14.50	No
		7	2442	12.10	14.00	No
		8	2447	12.18	14.00	No
		9	2452	11.37	13.00	No

8.6.5 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	14.66	15.50	No
		44	5220	14.70	15.50	No
		48	5240	14.76	15.50	No
	802.11n(HT20)	36	5180	14.88	15.50	No
		44	5220	14.66	15.50	No
		48	5240	14.66	15.50	No
	802.11n(HT40)	38	5190	14.06	15.50	No
		46	5230	14.99	15.50	No
	802.11ac(VHT20)	36	5180	14.66	15.50	No
		44	5220	14.97	15.50	No
		48	5240	14.74	15.50	No
	802.11ac(VHT40)	38	5190	14.14	15.50	No
		46	5230	14.99	15.50	No
	802.11ac(VHT80)	42	5210	13.74	15.00	No
5.3 (5.25~5.35)	802.11a	52	5260	14.97	15.50	No
		60	5300	14.97	15.50	No
		64	5320	14.72	15.50	No
	802.11n(HT20)	52	5260	14.80	15.50	No
		60	5300	14.97	15.50	No
		64	5320	14.92	15.50	No
	802.11n(HT40)	54	5270	14.87	15.50	Yes
		62	5310	13.66	15.00	Yes
	802.11ac(VHT20)	52	5260	14.69	15.50	No
		60	5300	14.72	15.50	No
		64	5320	14.79	15.50	No
	802.11ac(VHT40)	54	5270	14.66	15.50	No
		62	5310	14.07	15.50	No
	802.11ac(VHT80)	58	5290	13.53	15.00	No
5.6 (5.47~5.725)	802.11a	100	5500	15.25	17.00	No
		104	5520	17.17	19.00	No
		116	5580	17.51	19.00	No
		136	5680	17.53	19.00	No
		140	5700	14.16	16.00	No
		144	5720	17.62	19.00	No
	802.11n(HT20)	100	5500	14.32	16.00	No
		104	5520	17.35	19.00	No
		116	5580	17.21	19.00	No
		136	5680	17.31	19.00	No

		140	5700	13.81	15.50	No
		144	5720	17.46	19.00	No
	802.11n(HT40)	102	5510	12.04	13.50	No
		110	5550	17.13	19.00	No
		118	5590	17.20	19.00	No
		134	5670	17.37	19.00	No
		142	5710	17.21	19.00	No
	802.11ac(VHT20)	100	5500	14.18	16.00	No
		104	5520	17.44	19.00	No
		116	5580	17.47	19.00	No
		136	5680	17.58	19.00	No
		140	5700	15.46	17.00	No
		144	5720	17.65	19.00	No
	802.11ac(VHT40)	102	5510	14.01	15.50	No
		110	5550	17.52	19.00	No
		118	5590	17.16	19.00	No
		134	5670	17.21	19.00	No
		142	5710	17.27	19.00	No
	802.11ac(VHT80)	106	5530	13.18	15.00	Yes
		122	5610	15.12	17.00	Yes
		138	5690	17.37	19.00	Yes
5.8 (5.725~5.850)	802.11a	149	5745	17.32	19.00	No
		157	5785	17.65	19.00	No
		165	5825	17.37	19.00	No
	802.11n(HT20)	149	5745	17.56	19.00	No
		157	5785	17.64	19.00	No
		165	5825	17.54	19.00	No
	802.11n(HT40)	151	5755	17.20	19.00	No
		159	5795	17.15	19.00	No
	802.11ac(VHT20)	149	5745	17.33	19.00	No
		157	5785	17.31	19.00	No
		165	5825	17.55	19.00	No
	802.11ac(VHT40)	151	5755	17.27	19.00	No
		159	5795	17.30	19.00	No
	802.11ac(VHT80)	155	5775	17.57	19.00	Yes

8.6.6 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	11.34	12.50	No
		44	5220	11.16	12.50	No
		48	5240	11.20	12.50	No
	802.11n(HT20)	36	5180	11.34	12.50	No
		44	5220	11.37	12.50	No
		48	5240	11.18	12.50	No
	802.11n(HT40)	38	5190	11.33	12.50	No
		46	5230	11.15	12.50	No
	802.11ac(VHT20)	36	5180	11.23	12.50	No
		44	5220	11.06	12.50	No
		48	5240	11.17	12.50	No
	802.11ac(VHT40)	38	5190	10.99	12.50	No
		46	5230	11.15	12.50	No
	802.11ac(VHT80)	42	5210	11.05	12.50	No
5.3 (5.25~5.35)	802.11a	52	5260	11.10	12.50	No
		60	5300	11.17	12.50	No
		64	5320	11.32	12.50	No
	802.11n(HT20)	52	5260	11.22	12.50	No
		60	5300	11.13	12.50	No
		64	5320	11.15	12.50	No
	802.11n(HT40)	54	5270	11.37	12.50	No
		62	5310	11.19	12.50	No
	802.11ac(VHT20)	52	5260	11.18	12.50	No
		60	5300	11.26	12.50	No
		64	5320	11.11	12.50	No
	802.11ac(VHT40)	54	5270	11.17	12.50	No
		62	5310	11.10	12.50	No
	802.11ac(VHT80)	58	5290	11.17	12.50	Yes
5.6 (5.47~5.725)	802.11a	100	5500	14.29	16.00	No
		116	5580	14.83	16.00	No
		140	5700	14.16	16.00	No
		144	5720	14.85	16.00	No
	802.11n(HT20)	100	5500	14.32	16.00	No
		116	5580	14.78	16.00	No
		140	5700	13.81	15.50	No
		144	5720	14.84	16.00	No
	802.11n(HT40)	102	5510	12.04	13.50	No
		110	5550	14.70	16.00	No

		118	5590	14.66	16.00	No
		134	5670	14.76	16.00	No
		142	5710	14.83	16.00	No
	802.11ac(VHT20)	100	5500	14.18	16.00	No
		116	5580	14.85	16.00	No
		140	5700	14.41	16.00	No
		144	5720	14.71	16.00	No
	802.11ac(VHT40)	102	5510	14.01	15.50	No
		110	5550	14.72	16.00	No
		118	5590	14.64	16.00	No
		134	5670	14.81	16.00	No
		142	5710	14.65	16.00	No
	802.11ac(VHT80)	106	5530	13.18	15.00	No
		122	5610	14.11	16.00	No
		138	5690	14.61	16.00	Yes
5.8 (5.725~5.850)	802.11a	149	5745	17.32	19.00	No
		157	5785	17.65	19.00	No
		165	5825	17.37	19.00	No
	802.11n(HT20)	149	5745	17.56	19.00	No
		157	5785	17.64	19.00	No
		165	5825	17.54	19.00	No
	802.11n(HT40)	151	5755	17.20	19.00	No
		159	5795	17.15	19.00	No
	802.11ac(VHT20)	149	5745	17.33	19.00	No
		157	5785	17.31	19.00	No
		165	5825	17.55	19.00	No
	802.11ac(VHT40)	151	5755	17.27	19.00	No
		159	5795	17.30	19.00	No
	802.11ac(VHT80)	155	5775	17.57	19.00	Yes

8.6.7 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	17.02	18.50	No
		40	5200	17.75	19.00	No
		44	5220	17.76	19.00	No
		48	5240	17.31	19.00	No
	802.11n(HT20)	36	5180	16.93	18.50	No
		40	5200	17.40	19.00	No
		44	5220	17.59	19.00	No
		48	5240	17.43	19.00	No
	802.11n(HT40)	38	5190	14.06	15.50	No
		46	5230	17.56	19.00	No
	802.11ac(VHT20)	36	5180	16.72	18.50	No
		40	5200	17.51	19.00	No
		44	5220	17.20	19.00	No
		48	5240	17.34	19.00	No
	802.11ac(VHT40)	38	5190	14.14	16.00	No
		46	5230	17.34	19.00	No
	802.11ac(VHT80)	42	5210	14.23	16.00	No
5.3 (5.25~5.35)	802.11a	52	5260	17.27	19.00	No
		60	5300	17.17	19.00	No
		64	5320	14.77	16.50	No
	802.11n(HT20)	52	5260	17.46	19.00	No
		60	5300	17.56	19.00	No
		64	5320	14.92	15.50	No
	802.11n(HT40)	54	5270	17.69	19.00	Yes
		62	5310	13.66	15.00	No
	802.11ac(VHT20)	52	5260	17.38	19.00	No
		60	5300	17.54	19.00	No
		64	5320	14.99	16.50	No
	802.11ac(VHT40)	54	5270	17.60	19.00	No
		62	5310	14.07	15.50	No
	802.11ac(VHT80)	58	5290	13.53	15.00	No
5.6 (5.47~5.725)	802.11a	100	5500	15.25	17.00	No
		104	5520	17.17	19.00	No
		116	5580	17.51	19.00	No
		136	5680	17.53	19.00	No
		140	5700	14.16	16.00	No
		144	5720	17.62	19.00	No
	802.11n(HT20)	100	5500	14.32	16.00	No

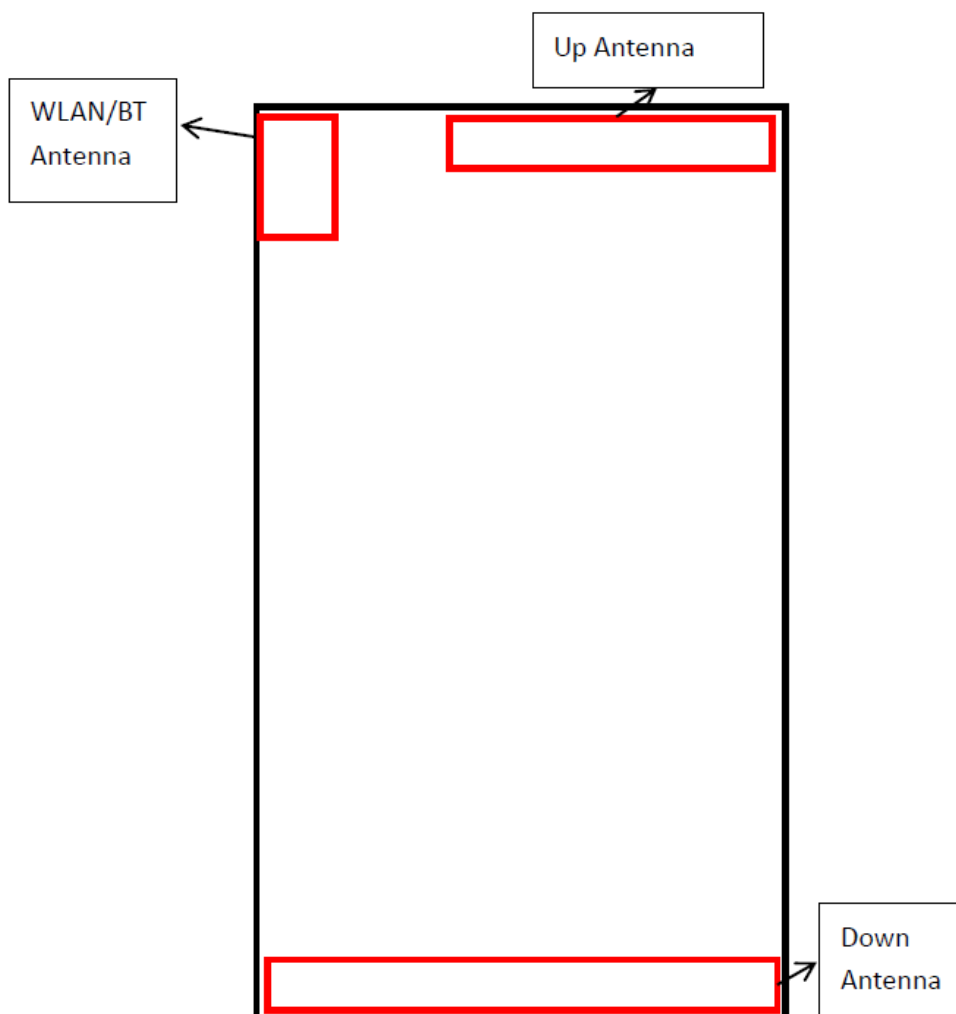
		104	5520	17.35	19.00	No
		116	5580	17.21	19.00	No
		136	5680	17.31	19.00	No
		140	5700	13.81	15.50	No
		144	5720	17.46	19.00	No
	802.11n(HT40)	102	5510	12.04	13.50	No
		110	5550	17.13	19.00	No
		118	5590	17.20	19.00	No
		134	5670	17.37	19.00	No
		142	5710	17.21	19.00	No
	802.11ac(VHT20)	100	5500	14.18	16.00	No
		104	5520	17.44	19.00	No
		116	5580	17.47	19.00	No
		136	5680	17.58	19.00	No
		140	5700	15.46	17.00	No
		144	5720	17.65	19.00	No
	802.11ac(VHT40)	102	5510	14.01	15.50	No
		110	5550	17.52	19.00	No
		118	5590	17.16	19.00	No
		134	5670	17.21	19.00	No
		142	5710	17.27	19.00	No
	802.11ac(VHT80)	106	5530	13.18	15.00	No
		122	5610	15.12	17.00	No
		138	5690	17.37	19.00	Yes
5.8 (5.725~5.850)	802.11a	149	5745	17.32	19.00	No
		157	5785	17.65	19.00	No
		165	5825	17.37	19.00	No
	802.11n(HT20)	149	5745	17.56	19.00	No
		157	5785	17.64	19.00	No
		165	5825	17.54	19.00	No
	802.11n(HT40)	151	5755	17.20	19.00	No
		159	5795	17.15	19.00	No
	802.11ac(VHT20)	149	5745	17.33	19.00	No
		157	5785	17.31	19.00	No
		165	5825	17.55	19.00	No
	802.11ac(VHT40)	151	5755	17.27	19.00	No
		159	5795	17.30	19.00	No
	802.11ac(VHT80)	155	5775	17.57	19.00	Yes

8.6.8 Power Reduced Level 6 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	13.07	14.00	Yes
		44	5220	13.06	14.00	No
		48	5240	12.91	14.00	No
	802.11n(HT20)	36	5180	12.68	14.00	No
		44	5220	12.68	14.00	No
		48	5240	12.63	14.00	No
	802.11n(HT40)	38	5190	12.82	14.00	Yes
		46	5230	12.66	14.00	No
	802.11ac(VHT20)	36	5180	12.21	14.00	No
		44	5220	12.19	14.00	No
		48	5240	12.37	14.00	No
	802.11ac(VHT40)	38	5190	12.12	13.00	No
		46	5230	12.05	13.00	No
	802.11ac(VHT80)	42	5210	11.59	13.00	No
5.3 (5.25~5.35)	802.11a	52	5260	12.92	14.00	No
		60	5300	13.06	14.00	No
		64	5320	13.14	14.00	No
	802.11n(HT20)	52	5260	12.69	14.00	No
		60	5300	12.40	14.00	No
		64	5320	12.96	14.00	No
	802.11n(HT40)	54	5270	12.85	14.00	No
		62	5310	12.86	14.00	Yes
	802.11ac(VHT20)	52	5260	12.04	14.00	No
		60	5300	12.12	14.00	No
		64	5320	12.04	14.00	No
	802.11ac(VHT40)	54	5270	11.70	13.00	No
		62	5310	11.83	13.00	No
	802.11ac(VHT80)	58	5290	11.60	13.00	No
5.6 (5.47~5.725)	802.11a	100	5500	11.53	13.00	No
		116	5580	11.11	13.00	No
		140	5700	11.61	13.00	No
		144	5720	11.64	13.00	No
	802.11n(HT20)	100	5500	11.55	13.00	No
		116	5580	11.25	13.00	No
		140	5700	11.47	13.00	No
		144	5720	11.53	13.00	No
	802.11n(HT40)	102	5510	11.01	13.00	No
		118	5590	11.13	13.00	No

		134	5670	11.41	13.00	Yes
		142	5710	11.40	13.00	No
	802.11ac(VHT20)	100	5500	11.21	13.00	No
		116	5580	11.24	13.00	No
		140	5700	11.37	13.00	No
		144	5720	11.28	13.00	No
	802.11ac(VHT40)	102	5510	10.95	12.00	No
		118	5590	10.95	12.00	No
		134	5670	11.01	12.00	No
		142	5710	11.03	12.00	No
	802.11ac(VHT80)	106	5530	10.57	12.00	No
		122	5610	10.88	12.00	No
		138	5690	10.94	12.00	No
5.8 (5.725~5.850)	802.11a	149	5745	13.03	14.00	No
		157	5785	13.04	14.00	No
		165	5825	12.92	14.00	No
	802.11n(HT20)	149	5745	12.62	14.00	No
		157	5785	12.77	14.00	No
		165	5825	12.83	14.00	No
	802.11n(HT40)	151	5755	12.64	14.00	No
		159	5795	12.72	14.00	Yes
	802.11ac(VHT20)	149	5745	12.26	14.00	No
		157	5785	12.42	14.00	No
		165	5825	12.30	14.00	No
	802.11ac(VHT40)	151	5755	12.01	13.00	No
		159	5795	12.37	13.00	No
	802.11ac(VHT80)	155	5775	11.99	13.00	No

9 TEST EXCLUSION CONSIDERATION



Antenna	Description	Support Bands
Up Antenna	2/3/4G TX Antenna	GSM 850/1900 WCDMA B2/4/5 LTE B2/4/5/7/12/17/26/66/38/41
Down Antenna	2/3/4G TX Antenna	GSM 850/1900 WCDMA B2/4/5 LTE B2/4/5/7/12/17/26/66/38/41
WLAN/BT Antenna	WLAN 2.4G/5G TX Antenna Bluetooth TX Antenna	2.4G WLAN 5G WLAN Bluetooth

Note: Two WWAN TX antennas for certain frequency band can switch automatically, but only one antenna can transmit at same time.

Antenna	Front Side (mm)	Back Side (mm)	Left Edge (mm)	Right Edge (mm)	Top Edge (mm)	Bottom Edge (mm)
Up	<5	<5	32.44	<5	<5	151.84
Down	<5	<5	<5	<5	150.35	<5
WLAN/BT	<5	<5	<5	43.84	<5	153.83

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 :

Up Antenna

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	32.44mm	<5mm	<5mm	151.84mm
	Voice	33.50	2238.72	Yes	Yes	No	Yes	Yes	No
	Data	33.50	2238.72	Yes	Yes	No	Yes	Yes	No
GSM 1900	Distance to User			<5mm	<5mm	32.44mm	<5mm	<5mm	151.84mm
	Voice	30.50	1122.02	Yes	Yes	No	Yes	Yes	No
	Data	30.50	1122.02	Yes	Yes	No	Yes	Yes	No
WCDMA Band 2	Distance to User			<5mm	<5mm	32.44mm	<5mm	<5mm	151.84mm
	RMC	24.00	251.19	Yes	Yes	No	Yes	Yes	No
WCDMA Band 4	Distance to User			<5mm	<5mm	32.44mm	<5mm	<5mm	151.84mm
	RMC	24.00	251.19	Yes	Yes	No	Yes	Yes	No
WCDMA Band 5	Distance to User			<5mm	<5mm	32.44mm	<5mm	<5mm	151.84mm
	RMC	24.30	269.15	Yes	Yes	No	Yes	Yes	No
LTE Band 2	Distance to User			<5mm	<5mm	32.44mm	<5mm	<5mm	151.84mm
	QPSK	24.00	251.19	Yes	Yes	No	Yes	Yes	No
LTE Band 4	Distance to User			<5mm	<5mm	32.44mm	<5mm	<5mm	151.84mm
	QPSK	24.00	251.19	Yes	Yes	No	Yes	Yes	No
LTE Band 5	Distance to User			<5mm	<5mm	32.44mm	<5mm	<5mm	151.84mm
	QPSK	24.50	281.84	Yes	Yes	No	Yes	Yes	No
LTE Band 7	Distance to User			<5mm	<5mm	32.44mm	<5mm	<5mm	151.84mm
	QPSK	24.40	275.42	Yes	Yes	No	Yes	Yes	No
LTE Band 12	Distance to User			<5mm	<5mm	32.44mm	<5mm	<5mm	151.84mm
	QPSK	24.50	281.84	Yes	Yes	No	Yes	Yes	No
LTE Band 17	Distance to User			<5mm	<5mm	32.44mm	<5mm	<5mm	151.84mm
	QPSK	24.50	281.84	Yes	Yes	No	Yes	Yes	No
LTE Band 26	Distance to User			<5mm	<5mm	32.44mm	<5mm	<5mm	151.84mm
	QPSK	24.50	281.84	Yes	Yes	No	Yes	Yes	No
LTE Band 66	Distance to User			<5mm	<5mm	32.44mm	<5mm	<5mm	151.84mm
	QPSK	24.00	251.19	Yes	Yes	No	Yes	Yes	No
LTE Band 38	Distance to User			<5mm	<5mm	32.44mm	<5mm	<5mm	151.84mm
	QPSK	24.00	251.19	Yes	Yes	No	Yes	Yes	No
LTE Band 41	Distance to User			<5mm	<5mm	32.44mm	<5mm	<5mm	151.84mm
	QPSK	24.00	251.19	Yes	Yes	No	Yes	Yes	No

Down Antenna

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	150.35mm	<5mm
	Voice	33.50	2238.72	Yes	Yes	Yes	Yes	No	Yes
	Data	33.50	2238.72	Yes	Yes	Yes	Yes	No	Yes
GSM 1900	Distance to User			<5mm	<5mm	<5mm	<5mm	150.35mm	<5mm
	Voice	30.50	1122.02	Yes	Yes	Yes	Yes	No	Yes
	Data	30.50	1122.02	Yes	Yes	Yes	Yes	No	Yes
WCDMA Band 2	Distance to User			<5mm	<5mm	<5mm	<5mm	150.35mm	<5mm
	RMC	24.00	251.19	Yes	Yes	Yes	Yes	No	Yes
WCDMA Band 4	Distance to User			<5mm	<5mm	<5mm	<5mm	150.35mm	<5mm
	RMC	24.00	251.19	Yes	Yes	Yes	Yes	No	Yes
WCDMA Band 5	Distance to User			<5mm	<5mm	<5mm	<5mm	150.35mm	<5mm
	RMC	24.30	269.15	Yes	Yes	Yes	Yes	No	Yes
LTE Band 2	Distance to User			<5mm	<5mm	<5mm	<5mm	150.35mm	<5mm
	QPSK	24.00	251.19	Yes	Yes	Yes	Yes	No	Yes
LTE Band 4	Distance to User			<5mm	<5mm	<5mm	<5mm	150.35mm	<5mm
	QPSK	24.00	251.19	Yes	Yes	Yes	Yes	No	Yes
LTE Band 5	Distance to User			<5mm	<5mm	<5mm	<5mm	150.35mm	<5mm
	QPSK	24.50	281.84	Yes	Yes	Yes	Yes	No	Yes
LTE Band 7	Distance to User			<5mm	<5mm	<5mm	<5mm	150.35mm	<5mm
	QPSK	24.40	275.42	Yes	Yes	Yes	Yes	No	Yes
LTE Band 12	Distance to User			<5mm	<5mm	<5mm	<5mm	150.35mm	<5mm
	QPSK	24.50	281.84	Yes	Yes	Yes	Yes	No	Yes
LTE Band 17	Distance to User			<5mm	<5mm	<5mm	<5mm	150.35mm	<5mm
	QPSK	24.50	281.84	Yes	Yes	Yes	Yes	No	Yes
LTE Band 26	Distance to User			<5mm	<5mm	<5mm	<5mm	150.35mm	<5mm
	QPSK	24.50	281.84	Yes	Yes	Yes	Yes	No	Yes
LTE Band 66	Distance to User			<5mm	<5mm	<5mm	<5mm	150.35mm	<5mm
	QPSK	24.00	251.19	Yes	Yes	Yes	Yes	No	Yes
LTE Band 38	Distance to User			<5mm	<5mm	<5mm	<5mm	150.35mm	<5mm
	QPSK	24.00	251.19	Yes	Yes	Yes	Yes	No	Yes
LTE Band 41	Distance to User			<5mm	<5mm	<5mm	<5mm	150.35mm	<5mm
	QPSK	24.00	251.19	Yes	Yes	Yes	Yes	No	Yes

WLAN/BT Antenna

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	43.84mm	<5mm	153.83mm
	802.11b	20.00	100.00	Yes	Yes	Yes	No	Yes	No
	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)	17.00	50.12	No	No	No	No	No	No
WLAN 5.2 G	Distance to User			<5mm	<5mm	<5mm	43.84mm	<5mm	153.83mm
	802.11a	19.00	79.43	Yes	Yes	Yes	No	Yes	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
	802.11ac(VHT80)	16.00	39.81	No	No	No	No	No	No
WLAN 5.3 G	Distance to User			<5mm	<5mm	<5mm	43.84mm	<5mm	153.83mm
	802.11a	19.00	79.43	Yes	Yes	Yes	No	Yes	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
	802.11ac(VHT80)	15.00	31.62	No	No	No	No	No	No
WLAN 5.6 G	Distance to User			<5mm	<5mm	<5mm	43.84mm	<5mm	153.83mm
	802.11a	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
	802.11ac(VHT80)	19.00	79.43	Yes	Yes	Yes	No	Yes	No
WLAN 5.8 G	Distance to User			<5mm	<5mm	<5mm	43.84mm	<5mm	153.83mm
	802.11a	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
	802.11ac(VHT80)	19.00	79.43	Yes	Yes	Yes	No	Yes	No
Bluetooth	Distance to User			<5mm	<5mm	<5mm	43.84mm	<5mm	153.83mm
	BR/EDR	11.50	14.13	Yes	Yes	Yes	No	Yes	No
	BLE	-1.00	0.79	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:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR}$$
 - a. $f(\text{GHz})$ 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 $[3.0] / [\sqrt{f(\text{GHz})}] \cdot [(\text{min. test separation distance, mm})] = \text{exclusion threshold of mW}$.
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. $[\text{Threshold at 50 mm in step 1}) + (\text{test separation distance} - 50 \text{ mm}) \cdot (f(\text{MHz})/150)] \text{ mW}$, at 100 MHz to 1500 MHz
 - b. $[\text{Threshold at 50 mm in step 1}) + (\text{test separation distance} - 50 \text{ mm}) \cdot 10] \text{ mW}$ 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 $\leq 1.2 \text{ W/kg}$, 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 $\leq 1.2 \text{ W/kg}$.
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 $\leq 1.2 \text{ W/kg}$, 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 $\leq 1.2 \text{ W/kg}$, 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

Antenn a	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													
Up	Level1&2&3	GPRS (4slots)	Left Cheek	0	190	836.6	0.01	0.347	24.72	26.00	1.343	0.466	/
	Level1&2&3		Left Tilt	0	190	836.6	0.05	0.288	24.72	26.00	1.343	0.387	/
	Level1&2&3		Right Cheek	0	190	836.6	-0.16	0.533	24.72	26.00	1.343	0.716	1#
	Level1&2&3		Right Tilt	0	190	836.6	0.17	0.392	24.72	26.00	1.343	0.526	/
Down	Off	GPRS (4slots)	Left Cheek	0	190	836.6	-0.11	0.294	27.54	29.00	1.400	0.411	/
	Off		Left Tilt	0	190	836.6	-0.07	0.151	27.54	29.00	1.400	0.211	/
	Off		Right Cheek	0	190	836.6	0.13	0.250	27.54	29.00	1.400	0.350	/
	Off		Right Tilt	0	190	836.6	0.14	0.138	27.54	29.00	1.400	0.193	/
Body-worn Accessory													
Up	Off	Voice	Front Side	15	190	836.6	0.12	0.070	32.63	33.50	1.222	0.086	/
	Off		Back Side	15	190	836.6	-0.02	0.086	32.63	33.50	1.222	0.105	/
	Off	GPRS (4slots)	Front Side	15	190	836.6	0.03	0.104	27.71	29.00	1.346	0.140	/
	Off		Back Side	15	190	836.6	0.17	0.130	27.71	29.00	1.346	0.175	/
Down	Off	Voice	Front Side	15	190	836.6	-0.02	0.152	32.48	33.50	1.265	0.192	/
	Off		Back Side	15	190	836.6	-0.12	0.192	32.48	33.50	1.265	0.243	/
	Off	GPRS (4slots)	Front Side	15	190	836.6	0.08	0.251	27.54	29.00	1.400	0.351	/
	Off		Back Side	15	190	836.6	-0.05	0.285	27.54	29.00	1.400	0.399	2#
Down	Level5&6	Voice	Front Side	15	190	836.6	0.06	0.121	31.83	32.50	1.167	0.141	/
	Level5&6		Back Side	15	190	836.6	0.02	0.153	31.83	32.50	1.167	0.179	/
	Level5&6	GPRS (4slots)	Front Side	15	190	836.6	0.07	0.199	26.13	28.00	1.538	0.306	/
	Level5&6		Back Side	15	190	836.6	-0.08	0.206	26.13	28.00	1.538	0.317	/
Hotspot													
Up	Off	GPRS (4slots)	Front Side	10	190	836.6	-0.05	0.155	27.71	29.00	1.346	0.209	/
	Off		Back Side	10	190	836.6	-0.12	0.153	27.71	29.00	1.346	0.206	/
	Off		Right Edge	10	190	836.6	0.01	0.102	27.71	29.00	1.346	0.137	/
	Off		Top Edge	10	190	836.6	0.13	0.214	27.71	29.00	1.346	0.288	/
Down	Level5&6	GPRS (4slots)	Front Side	10	190	836.6	-0.02	0.278	26.13	28.00	1.538	0.428	/
	Level5&6		Back Side	10	190	836.6	-0.03	0.323	26.13	28.00	1.538	0.497	3#
	Level5&6		Left Edge	10	190	836.6	0.14	0.148	26.13	28.00	1.538	0.228	/
	Level5&6		Right Edge	10	190	836.6	-0.12	0.268	26.13	28.00	1.538	0.412	/
	Level5&6		Bottom Edge	10	190	836.6	-0.17	0.302	26.13	28.00	1.538	0.465	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

10.2GSM 1900

Antenn a	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													
Up	Level1	GPRS (3slots)	Left Cheek	0	810	1909.8	0.10	0.151	19.83	21.50	1.469	0.222	/
	Level1		Left Tilt	0	810	1909.8	0.08	0.192	19.83	21.50	1.469	0.282	/
	Level1		Right Cheek	0	810	1909.8	-0.14	0.213	19.83	21.50	1.469	0.313	/
	Level1		Right Tilt	0	810	1909.8	-0.14	0.322	19.83	21.50	1.469	0.473	4#
Up	Level2&3	GPRS (3slots)	Left Cheek	0	810	1909.8	0.11	0.120	18.79	20.50	1.483	0.178	/
	Level2&3		Left Tilt	0	810	1909.8	0.00	0.153	18.79	20.50	1.483	0.227	/
	Level2&3		Right Cheek	0	810	1909.8	-0.12	0.169	18.79	20.50	1.483	0.251	/
	Level2&3		Right Tilt	0	810	1909.8	-0.01	0.233	18.79	20.50	1.483	0.345	/
Down	Off	GPRS (3slots)	Left Cheek	0	810	1909.8	-0.15	0.117	26.20	27.50	1.349	0.158	/
	Off		Left Tilt	0	810	1909.8	0.05	0.077	26.20	27.50	1.349	0.104	/
	Off		Right Cheek	0	810	1909.8	0.02	0.085	26.20	27.50	1.349	0.115	/
	Off		Right Tilt	0	810	1909.8	0.18	0.061	26.20	27.50	1.349	0.082	/
Body-worn Accessory													
Up	Off	Voice	Front Side	15	661	1880.0	-0.05	0.113	29.90	30.50	1.148	0.130	/
	Off		Back Side	15	661	1880.0	0.03	0.148	29.90	30.50	1.148	0.170	/
	Off	GPRS (3slots)	Front Side	15	661	1880.0	-0.11	0.132	26.46	27.50	1.271	0.168	/
	Off		Back Side	15	661	1880.0	0.14	0.151	26.46	27.50	1.271	0.192	/
Up	Level5&6	Voice	Front Side	15	810	1909.8	0.02	0.043	26.44	26.50	1.014	0.044	/
	Level5&6		Back Side	15	810	1909.8	0.14	0.057	26.44	26.50	1.014	0.058	/
	Level5&6	GPRS (3slots)	Front Side	15	810	1909.8	0.12	0.051	21.68	23.50	1.521	0.078	/
	Level5&6		Back Side	15	810	1909.8	0.11	0.062	21.68	23.50	1.521	0.094	/
Down	Off	Voice	Front Side	15	661	1880.0	0.01	0.158	29.55	30.50	1.245	0.197	/
	Off		Back Side	15	661	1880.0	-0.15	0.204	29.55	30.50	1.245	0.254	/
	Off	GPRS (3slots)	Front Side	15	810	1909.8	0.11	0.245	26.20	27.50	1.349	0.330	/
	Off		Back Side	15	810	1909.8	0.04	0.276	26.20	27.50	1.349	0.372	5#
Down	Level5&6	Voice	Front Side	15	810	1909.8	-0.13	0.053	26.17	26.50	1.079	0.057	/
	Level5&6		Back Side	15	810	1909.8	-0.16	0.069	26.17	26.50	1.079	0.074	/
	Level5&6	GPRS (3slots)	Front Side	15	810	1909.8	0.11	0.083	23.01	23.50	1.119	0.093	/
	Level5&6		Back Side	15	810	1909.8	0.16	0.103	23.01	23.50	1.119	0.115	/
Hotspot													
Up	Level5&6	GPRS (3slots)	Front Side	10	810	1909.8	-0.13	0.123	21.68	23.50	1.521	0.187	/
	Level5&6		Back Side	10	810	1909.8	-0.09	0.164	21.68	23.50	1.521	0.249	/
	Level5&6		Right Edge	10	810	1909.8	-0.14	0.032	21.68	23.50	1.521	0.049	/
	Level5&6		Top Edge	10	810	1909.8	0.08	0.223	21.68	23.50	1.521	0.339	6#
Down	Level5&6	GPRS (3slots)	Front Side	10	810	1909.8	0.06	0.142	23.01	23.50	1.119	0.159	/
	Level5&6		Back Side	10	810	1909.8	0.11	0.193	23.01	23.50	1.119	0.216	/
	Level5&6		Left Edge	10	810	1909.8	-0.09	0.048	23.01	23.50	1.119	0.054	/
	Level5&6		Right Edge	10	810	1909.8	-0.02	0.035	23.01	23.50	1.119	0.039	/
	Level5&6		Bottom Edge	10	810	1909.8	0.19	0.227	23.01	23.50	1.119	0.254	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

10.3WCDMA Band 2

Antenn a	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													
Up	Level1	RMC	Left Cheek	0	9262	1852.4	0.11	0.354	17.71	18.00	1.069	0.378	/
	Level1		Left Tilt	0	9262	1852.4	0.08	0.425	17.71	18.00	1.069	0.454	/
	Level1		Right Cheek	0	9262	1852.4	0.12	0.495	17.71	18.00	1.069	0.529	/
	Level1		Right Tilt	0	9262	1852.4	-0.08	0.663	17.71	18.00	1.069	0.709	7#
Up	Level2&3	RMC	Left Cheek	0	9262	1852.4	0.03	0.281	16.71	17.00	1.069	0.300	/
	Level2&3		Left Tilt	0	9262	1852.4	0.12	0.337	16.71	17.00	1.069	0.360	/
	Level2&3		Right Cheek	0	9262	1852.4	-0.10	0.393	16.71	17.00	1.069	0.420	/
	Level2&3		Right Tilt	0	9262	1852.4	0.19	0.449	16.71	17.00	1.069	0.480	/
Down	Off	RMC	Left Cheek	0	9262	1852.4	-0.03	0.136	22.50	24.00	1.413	0.192	/
	Off		Left Tilt	0	9262	1852.4	0.02	0.066	22.50	24.00	1.413	0.093	/
	Off		Right Cheek	0	9262	1852.4	-0.18	0.108	22.50	24.00	1.413	0.153	/
	Off		Right Tilt	0	9262	1852.4	-0.04	0.073	22.50	24.00	1.413	0.103	/
Body-worn Accessory													
Up	Level4	RMC	Front Side	15	9262	1852.4	-0.05	0.124	20.42	21.00	1.143	0.142	/
	Level4		Back Side	15	9262	1852.4	0.15	0.156	20.42	21.00	1.143	0.178	/
Up	Level5&6	RMC	Front Side	15	9262	1852.4	-0.09	0.099	19.58	20.00	1.102	0.109	/
	Level5&6		Back Side	15	9262	1852.4	-0.10	0.124	19.58	20.00	1.102	0.137	/
Down	Level4	RMC	Front Side	15	9262	1852.4	0.00	0.154	20.39	21.00	1.151	0.177	/
	Level4		Back Side	15	9262	1852.4	0.09	0.213	20.39	21.00	1.151	0.245	8#
Down	Level5&6	RMC	Front Side	15	9262	1852.4	-0.12	0.122	19.42	20.00	1.143	0.139	/
	Level5&6		Back Side	15	9262	1852.4	-0.05	0.162	19.42	20.00	1.143	0.185	/
Hotspot													
Up	Level5&6	RMC	Front Side	10	9262	1852.4	-0.04	0.203	19.58	20.00	1.102	0.224	/
	Level5&6		Back Side	10	9262	1852.4	-0.08	0.254	19.58	20.00	1.102	0.280	/
	Level5&6		Right Edge	10	9262	1852.4	0.02	0.057	19.58	20.00	1.102	0.063	/
	Level5&6		Top Edge	10	9262	1852.4	0.11	0.453	19.58	20.00	1.102	0.499	/
Down	Level5&6	RMC	Front Side	10	9262	1852.4	-0.03	0.251	19.42	20.00	1.143	0.287	/
	Level5&6		Back Side	10	9262	1852.4	-0.13	0.332	19.42	20.00	1.143	0.379	/
	Level5&6		Left Edge	10	9262	1852.4	0.04	0.112	19.42	20.00	1.143	0.128	/
	Level5&6		Right Edge	10	9262	1852.4	-0.15	0.097	19.42	20.00	1.143	0.111	/
	Level5&6		Bottom Edge	10	9262	1852.4	-0.15	0.503	19.42	20.00	1.143	0.575	9#
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

10.4WCDMA Band 4

Antenn a	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													
Up	Level1	RMC	Left Cheek	0	1513	1752.6	0.16	0.481	18.93	19.50	1.140	0.548	/
	Level1		Left Tilt	0	1513	1752.6	0.13	0.554	18.93	19.50	1.140	0.632	/
	Level1		Right Cheek	0	1513	1752.6	-0.12	0.613	18.93	19.50	1.140	0.699	/
	Level1		Right Tilt	0	1513	1752.6	-0.04	0.783	18.93	19.50	1.140	0.893	10#
	Level1			0	1312	1712.4	0.06	0.735	18.90	19.50	1.148	0.844	/
	Level1			0	1412	1732.4	-0.10	0.764	18.83	19.50	1.167	0.891	/
Up	Level2&3	RMC	Left Cheek	0	1513	1752.6	0.03	0.371	17.84	18.50	1.164	0.432	/
	Level2&3		Left Tilt	0	1513	1752.6	0.05	0.429	17.84	18.50	1.164	0.499	/
	Level2&3		Right Cheek	0	1513	1752.6	0.10	0.491	17.84	18.50	1.164	0.572	/
	Level2&3		Right Tilt	0	1513	1752.6	-0.07	0.633	17.84	18.50	1.164	0.737	/
Down	Off	RMC	Left Cheek	0	1513	1752.6	-0.17	0.138	23.32	24.00	1.169	0.161	/
	Off		Left Tilt	0	1513	1752.6	-0.01	0.070	23.32	24.00	1.169	0.082	/
	Off		Right Cheek	0	1513	1752.6	-0.02	0.087	23.32	24.00	1.169	0.102	/
	Off		Right Tilt	0	1513	1752.6	-0.19	0.083	23.32	24.00	1.169	0.097	/
Body-worn Accessory													
Up	Level4	RMC	Front Side	15	1513	1752.6	0.18	0.133	21.41	22.00	1.146	0.152	/
	Level4		Back Side	15	1513	1752.6	-0.19	0.169	21.41	22.00	1.146	0.194	/
Up	Level5&6	RMC	Front Side	15	1513	1752.6	-0.09	0.101	20.42	21.00	1.143	0.115	/
	Level5&6		Back Side	15	1513	1752.6	-0.12	0.126	20.42	21.00	1.143	0.144	/
Down	Level4	RMC	Front Side	15	1513	1752.6	-0.14	0.151	20.13	21.00	1.222	0.184	/
	Level4		Back Side	15	1513	1752.6	0.06	0.196	20.13	21.00	1.222	0.239	11#
Down	Level5&6	RMC	Front Side	15	1513	1752.6	0.17	0.112	19.26	20.00	1.186	0.133	/
	Level5&6		Back Side	15	1513	1752.6	0.18	0.136	19.26	20.00	1.186	0.161	/
Hotspot													
Up	Level5&6	RMC	Front Side	10	1513	1752.6	0.09	0.221	20.42	21.00	1.143	0.253	/
	Level5&6		Back Side	10	1513	1752.6	0.09	0.274	20.42	21.00	1.143	0.313	/
	Level5&6		Right Edge	10	1513	1752.6	0.14	0.057	20.42	21.00	1.143	0.065	/
	Level5&6		Top Edge	10	1513	1752.6	0.01	0.484	20.42	21.00	1.143	0.553	12#
Down	Level5&6	RMC	Front Side	10	1513	1752.6	-0.05	0.214	19.26	20.00	1.186	0.254	/
	Level5&6		Back Side	10	1513	1752.6	-0.06	0.323	19.26	20.00	1.186	0.383	/
	Level5&6		Left Edge	10	1513	1752.6	-0.03	0.086	19.26	20.00	1.186	0.102	/
	Level5&6		Right Edge	10	1513	1752.6	0.01	0.056	19.26	20.00	1.186	0.066	/
	Level5&6		Bottom Edge	10	1513	1752.6	0.11	0.461	19.26	20.00	1.186	0.547	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

10.5WCDMA Band 5

Antenn a	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													
Up	Off	RMC	Left Cheek	0	4132	826.4	-0.09	0.239	23.00	24.30	1.349	0.322	/
	Off		Left Tilt	0	4132	826.4	-0.14	0.212	23.00	24.30	1.349	0.286	/
	Off		Right Cheek	0	4132	826.4	-0.14	0.367	23.00	24.30	1.349	0.495	13#
	Off		Right Tilt	0	4132	826.4	-0.13	0.269	23.00	24.30	1.349	0.363	/
Down	Off	RMC	Left Cheek	0	4132	826.4	0.06	0.158	23.46	24.30	1.213	0.192	/
	Off		Left Tilt	0	4132	826.4	0.00	0.089	23.46	24.30	1.213	0.108	/
	Off		Right Cheek	0	4132	826.4	-0.17	0.131	23.46	24.30	1.213	0.159	/
	Off		Right Tilt	0	4132	826.4	0.14	0.075	23.46	24.30	1.213	0.091	/
Body-worn Accessory													
Up	Off	RMC	Front Side	15	4132	826.4	0.10	0.016	23.00	24.30	1.349	0.022	/
	Off		Back Side	15	4132	826.4	-0.15	0.047	23.00	24.30	1.349	0.063	/
Down	Off	RMC	Front Side	15	4132	826.4	-0.04	0.121	23.46	24.30	1.213	0.147	/
	Off		Back Side	15	4132	826.4	0.00	0.141	23.46	24.30	1.213	0.171	14#
Down	Level5&6	RMC	Front Side	15	4132	826.4	-0.02	0.095	22.48	23.30	1.208	0.115	/
	Level5&6		Back Side	15	4132	826.4	-0.11	0.113	22.48	23.30	1.208	0.136	/
Hotspot													
Up	Off	RMC	Front Side	10	4132	826.4	-0.18	0.051	23.00	24.30	1.349	0.069	/
	Off		Back Side	10	4132	826.4	-0.11	0.067	23.00	24.30	1.349	0.090	/
	Off		Right Edge	10	4132	826.4	-0.07	0.015	23.00	24.30	1.349	0.020	/
	Off		Top Edge	10	4132	826.4	-0.05	0.088	23.00	24.30	1.349	0.119	/
Down	Level5&6	RMC	Front Side	10	4132	826.4	0.15	0.108	22.48	23.30	1.208	0.130	/
	Level5&6		Back Side	10	4132	826.4	-0.08	0.145	22.48	23.30	1.208	0.175	15#
	Level5&6		Left Edge	10	4132	826.4	-0.12	0.074	22.48	23.30	1.208	0.089	/
	Level5&6		Right Edge	10	4132	826.4	-0.10	0.139	22.48	23.30	1.208	0.168	/
	Level5&6		Bottom Edge	10	4132	826.4	0.15	0.131	22.48	23.30	1.208	0.158	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

10.6LTE Band 2 (20MHz Bandwidth)

Antenn a	Power Reductio n	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															
Up	Level1	QPSK	Left Cheek	0	18700	1860	1	Mid	-0.04	0.371	17.83	18.00	1.040	0.386	/
	Level1			0	18700	1860	50	Mid	0.05	0.352	17.78	18.00	1.052	0.370	/
	Level1		Left Tilt	0	18700	1860	1	Mid	-0.14	0.442	17.83	18.00	1.040	0.460	/
	Level1			0	18700	1860	50	Mid	-0.06	0.437	17.78	18.00	1.052	0.460	/
	Level1		Right Cheek	0	18700	1860	1	Mid	-0.07	0.494	17.83	18.00	1.040	0.514	/
	Level1			0	18700	1860	50	Mid	0.08	0.485	17.78	18.00	1.052	0.510	/
	Level1		Right Tilt	0	18700	1860	1	Mid	0.03	0.581	17.83	18.00	1.040	0.604	/
	Level1			0	18700	1860	50	Mid	-0.07	0.621	17.78	18.00	1.052	0.653	16#
Up	Level2&3	QPSK	Left Cheek	0	18700	1860	1	Mid	0.02	0.289	16.76	17.00	1.057	0.305	/
	Level2&3			0	18700	1860	50	Mid	-0.13	0.280	16.73	17.00	1.064	0.298	/
	Level2&3		Left Tilt	0	18700	1860	1	Mid	0.19	0.342	16.76	17.00	1.057	0.361	/
	Level2&3			0	18700	1860	50	Mid	0.06	0.338	16.73	17.00	1.064	0.360	/
	Level2&3		Right Cheek	0	18700	1860	1	Mid	0.05	0.392	16.76	17.00	1.057	0.414	/
	Level2&3			0	18700	1860	50	Mid	-0.04	0.381	16.73	17.00	1.064	0.405	/
	Level2&3		Right Tilt	0	18700	1860	1	Mid	0.10	0.461	16.76	17.00	1.057	0.487	/
	Level2&3			0	18700	1860	50	Mid	-0.03	0.452	16.73	17.00	1.064	0.481	/
Down	Off	QPSK	Left Cheek	0	18700	1860	1	Mid	0.03	0.144	23.55	24.00	1.109	0.160	/
	Off			0	18700	1860	50	Mid	0.17	0.114	22.52	23.00	1.117	0.127	/
	Off		Left Tilt	0	18700	1860	1	Mid	0.08	0.067	23.55	24.00	1.109	0.074	/
	Off			0	18700	1860	50	Mid	0.02	0.052	22.52	23.00	1.117	0.058	/
	Off		Right Cheek	0	18700	1860	1	Mid	-0.08	0.117	23.55	24.00	1.109	0.130	/
	Off			0	18700	1860	50	Mid	0.01	0.116	22.52	23.00	1.117	0.130	/
	Off		Right Tilt	0	18700	1860	1	Mid	0.03	0.073	23.55	24.00	1.109	0.081	/
	Off			0	18700	1860	50	Mid	-0.06	0.059	22.52	23.00	1.117	0.066	/
Body-worn Accessory															
Up	Level4	QPSK	Front Side	15	18700	1860	1	Low	-0.02	0.142	20.86	21.00	1.033	0.147	/
	Level4			15	18700	1860	50	Mid	0.15	0.133	20.80	21.00	1.047	0.139	/
	Level4		Back Side	15	18700	1860	1	Low	0.05	0.192	20.86	21.00	1.033	0.198	/
	Level4			15	18700	1860	50	Mid	0.16	0.190	20.80	21.00	1.047	0.199	/
Up	Level5&6	QPSK	Front Side	15	18700	1860	1	Low	-0.04	0.114	19.90	20.00	1.023	0.117	/
	Level5&6			15	18700	1860	50	Mid	0.07	0.105	19.81	20.00	1.045	0.110	/
	Level5&6		Back Side	15	18700	1860	1	Low	0.09	0.151	19.90	20.00	1.023	0.155	/
	Level5&6			15	18700	1860	50	Mid	0.05	0.143	19.81	20.00	1.045	0.149	/
Down	Level4	QPSK	Front Side	15	18700	1860	1	Mid	-0.18	0.156	20.41	21.00	1.146	0.179	/
	Level4			15	18700	1860	50	Mid	0.04	0.143	20.35	21.00	1.161	0.166	/
	Level4		Back Side	15	18700	1860	1	Mid	0.15	0.230	20.41	21.00	1.146	0.263	/
	Level4			15	18700	1860	50	Mid	0.03	0.231	20.35	21.00	1.161	0.268	17#
Down	Level5&6	QPSK	Front Side	15	18700	1860	1	Mid	0.18	0.124	19.41	20.00	1.146	0.142	/
	Level5&6			15	18700	1860	50	Mid	-0.01	0.113	19.39	20.00	1.151	0.130	/

	Level5&6		Back Side	15	18700	1860	1	Mid	0.18	0.178	19.41	20.00	1.146	0.204	/
	Level5&6			15	18700	1860	50	Mid	0.04	0.174	19.39	20.00	1.151	0.200	/
Hotspot															
Up	Level5&6	QPSK	Front Side	10	18700	1860	1	Mid	-0.16	0.221	19.90	20.00	1.023	0.226	/
	Level5&6			10	18700	1860	50	Mid	-0.07	0.212	19.81	20.00	1.045	0.221	/
	Level5&6		Back Side	10	18700	1860	1	Mid	-0.17	0.261	19.90	20.00	1.023	0.267	/
	Level5&6			10	18700	1860	50	Mid	0.10	0.253	19.81	20.00	1.045	0.264	/
	Level5&6		Right Edge	10	18700	1860	1	Mid	-0.17	0.062	19.90	20.00	1.023	0.063	/
	Level5&6			10	18700	1860	50	Mid	-0.09	0.060	19.81	20.00	1.045	0.063	/
	Level5&6		Top Edge	10	18700	1860	1	Mid	-0.07	0.443	19.90	20.00	1.023	0.453	/
	Level5&6			10	18700	1860	50	Mid	0.14	0.440	19.81	20.00	1.045	0.460	/
Down	Level5&6	QPSK	Front Side	10	18700	1860	1	Mid	0.10	0.241	19.41	20.00	1.146	0.276	/
	Level5&6			10	18700	1860	50	Mid	0.16	0.230	19.39	20.00	1.151	0.265	/
	Level5&6		Back Side	10	18700	1860	1	Mid	0.07	0.312	19.41	20.00	1.146	0.357	/
	Level5&6			10	18700	1860	50	Mid	0.09	0.307	19.39	20.00	1.151	0.353	/
	Level5&6		Left Edge	10	18700	1860	1	Mid	0.17	0.087	19.41	20.00	1.146	0.100	/
	Level5&6			10	18700	1860	50	Mid	-0.10	0.085	19.39	20.00	1.151	0.098	/
	Level5&6		Right Edge	10	18700	1860	1	Mid	0.12	0.060	19.41	20.00	1.146	0.069	/
	Level5&6			10	18700	1860	50	Mid	0.04	0.061	19.39	20.00	1.151	0.070	/
	Level5&6		Bottom Edge	10	18700	1860	1	Mid	-0.05	0.481	19.41	20.00	1.146	0.551	18#
	Level5&6			10	18700	1860	50	Mid	-0.10	0.477	19.39	20.00	1.151	0.549	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.7LTE Band 5 (10MHz Bandwidth)

Antenn a	Power Reductio n	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															
Up	Off	QPSK	Left Cheek	0	20525	836.5	1	Mid	0.02	0.325	23.51	24.50	1.256	0.408	/
	Off			0	20525	836.5	25	Mid	0.17	0.242	22.49	23.50	1.262	0.305	/
	Off		Left Tilt	0	20525	836.5	1	Mid	-0.06	0.258	23.51	24.50	1.256	0.324	/
	Off			0	20525	836.5	25	Mid	0.16	0.203	22.49	23.50	1.262	0.256	/
	Off		Right Cheek	0	20525	836.5	1	Mid	0.13	0.423	23.51	24.50	1.256	0.531	19#
	Off			0	20525	836.5	25	Mid	0.01	0.325	22.49	23.50	1.262	0.410	/
	Off		Right Tilt	0	20525	836.5	1	Mid	0.17	0.316	23.51	24.50	1.256	0.397	/
	Off			0	20525	836.5	25	Mid	-0.02	0.253	22.49	23.50	1.262	0.319	/
Up	Level2&3	QPSK	Left Cheek	0	20525	836.5	1	Mid	0.01	0.258	22.46	23.50	1.271	0.328	/
	Level2&3			0	20525	836.5	25	Mid	0.10	0.250	22.51	23.50	1.256	0.314	/
	Level2&3		Left Tilt	0	20525	836.5	1	Mid	-0.04	0.205	22.46	23.50	1.271	0.260	/
	Level2&3			0	20525	836.5	25	Mid	-0.07	0.203	22.51	23.50	1.256	0.255	/
	Level2&3		Right Cheek	0	20525	836.5	1	Mid	-0.10	0.322	22.46	23.50	1.271	0.409	/
	Level2&3			0	20525	836.5	25	Mid	-0.15	0.319	22.51	23.50	1.256	0.401	/
	Level2&3		Right Tilt	0	20525	836.5	1	Mid	-0.04	0.251	22.46	23.50	1.271	0.319	/
	Level2&3			0	20525	836.5	25	Mid	-0.13	0.244	22.51	23.50	1.256	0.306	/
Down	Off	QPSK	Left Cheek	0	20525	836.5	1	Mid	-0.11	0.168	23.33	24.50	1.309	0.220	/
	Off			0	20525	836.5	25	Mid	0.01	0.135	22.31	23.50	1.315	0.178	/
	Off		Left Tilt	0	20525	836.5	1	Mid	-0.17	0.095	23.33	24.50	1.309	0.124	/
	Off			0	20525	836.5	25	Mid	-0.07	0.076	22.31	23.50	1.315	0.100	/
	Off		Right Cheek	0	20525	836.5	1	Mid	0.01	0.121	23.33	24.50	1.309	0.158	/
	Off			0	20525	836.5	25	Mid	-0.05	0.114	22.31	23.50	1.315	0.150	/
	Off		Right Tilt	0	20525	836.5	1	Mid	-0.14	0.088	23.33	24.50	1.309	0.115	/
	Off			0	20525	836.5	25	Mid	-0.14	0.068	22.31	23.50	1.315	0.089	/
Body-worn Accessory															
Up	Off	QPSK	Front Side	15	20525	836.5	1	Mid	0.11	0.011	23.51	24.50	1.256	0.014	/
	Off			15	20525	836.5	25	Mid	0.16	0.008	22.49	23.50	1.262	0.010	/
	Off		Back Side	15	20525	836.5	1	Mid	-0.03	0.047	23.51	24.50	1.256	0.059	/
	Off			15	20525	836.5	25	Mid	-0.04	0.031	22.49	23.50	1.262	0.039	/
Up	Level5&6	QPSK	Front Side	15	20525	836.5	1	Mid	0.02	0.009	22.52	23.50	1.253	0.011	/
	Level5&6			15	20525	836.5	25	Mid	-0.14	0.008	22.51	23.50	1.256	0.010	/
	Level5&6		Back Side	15	20525	836.5	1	Mid	0.06	0.032	22.52	23.50	1.253	0.040	/
	Level5&6			15	20525	836.5	25	Mid	-0.07	0.030	22.51	23.50	1.256	0.038	/
Down	Off	QPSK	Front Side	15	20525	836.5	1	Mid	0.18	0.114	23.33	24.50	1.309	0.149	/
	Off			15	20525	836.5	25	Mid	0.06	0.097	22.31	23.50	1.315	0.128	/
	Off		Back Side	15	20525	836.5	1	Mid	0.16	0.149	23.33	24.50	1.309	0.195	20#
	Off			15	20525	836.5	25	Mid	-0.03	0.131	22.31	23.50	1.315	0.172	/
Down	Level5&6	QPSK	Front Side	15	20525	836.5	1	Mid	0.10	0.096	22.17	23.50	1.358	0.130	/
	Level5&6			15	20525	836.5	25	High	0.10	0.081	22.17	23.50	1.358	0.110	/

	Level5&6		Back Side	15	20525	836.5	1	Mid	-0.06	0.124	22.17	23.50	1.358	0.168	/
	Level5&6			15	20525	836.5	25	High	0.07	0.118	22.17	23.50	1.358	0.160	/
Hotspot															
Up	Level5&6	QPSK	Front Side	10	20525	836.5	1	Mid	0.03	0.048	22.52	23.50	1.253	0.060	/
	Level5&6			10	20525	836.5	25	Mid	-0.18	0.045	22.51	23.50	1.256	0.057	/
	Level5&6		Back Side	10	20525	836.5	1	Mid	-0.10	0.064	22.52	23.50	1.253	0.080	/
	Level5&6			10	20525	836.5	25	Mid	0.11	0.058	22.51	23.50	1.256	0.073	/
	Level5&6		Right Edge	10	20525	836.5	1	Mid	0.16	0.003	22.52	23.50	1.253	0.004	/
	Level5&6			10	20525	836.5	25	Mid	-0.18	0.002	22.51	23.50	1.256	0.003	/
	Level5&6		Top Edge	10	20525	836.5	1	Mid	0.08	0.071	22.52	23.50	1.253	0.089	/
	Level5&6			10	20525	836.5	25	Mid	0.18	0.068	22.51	23.50	1.256	0.085	/
Down	Level5&6	QPSK	Front Side	10	20525	836.5	1	Mid	-0.04	0.125	22.17	23.50	1.358	0.170	/
	Level5&6			10	20525	836.5	25	High	0.06	0.123	22.17	23.50	1.358	0.167	/
	Level5&6		Back Side	10	20525	836.5	1	Mid	-0.11	0.149	22.17	23.50	1.358	0.202	21#
	Level5&6			10	20525	836.5	25	High	-0.14	0.145	22.17	23.50	1.358	0.197	/
	Level5&6		Left Edge	10	20525	836.5	1	Mid	-0.18	0.081	22.17	23.50	1.358	0.110	/
	Level5&6			10	20525	836.5	25	High	-0.08	0.074	22.17	23.50	1.358	0.101	/
	Level5&6		Right Edge	10	20525	836.5	1	Mid	0.12	0.147	22.17	23.50	1.358	0.200	/
	Level5&6			10	20525	836.5	25	High	0.01	0.147	22.17	23.50	1.358	0.200	/
	Level5&6		Bottom Edge	10	20525	836.5	1	Mid	-0.16	0.143	22.17	23.50	1.358	0.194	/
	Level5&6			10	20525	836.5	25	High	-0.18	0.135	22.17	23.50	1.358	0.183	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.8LTE Band 7 (20MHz Bandwidth)

Antenn a	Power Reductio n	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															
Up	Level1	QPSK	Left Cheek	0	20850	2510	1	Mid	0.04	0.131	14.74	15.00	1.062	0.139	/
	Level1			0	20850	2510	50	Mid	0.12	0.124	14.65	15.00	1.084	0.134	/
	Level1		Left Tilt	0	20850	2510	1	Mid	0.15	0.166	14.74	15.00	1.062	0.176	/
	Level1			0	20850	2510	50	Mid	0.04	0.151	14.65	15.00	1.084	0.164	/
	Level1		Right Cheek	0	20850	2510	1	Mid	0.01	0.351	14.74	15.00	1.062	0.373	/
	Level1			0	20850	2510	50	Mid	0.02	0.341	14.65	15.00	1.084	0.370	/
	Level1		Right Tilt	0	20850	2510	1	Mid	0.18	0.400	14.74	15.00	1.062	0.425	/
	Level1			0	20850	2510	50	Mid	0.08	0.402	14.65	15.00	1.084	0.436	22#
Up	Level2&3	QPSK	Left Cheek	0	20850	2510	1	Mid	-0.18	0.104	13.73	14.00	1.064	0.111	/
	Level2&3			0	20850	2510	50	Mid	0.03	0.098	13.64	14.00	1.086	0.106	/
	Level2&3		Left Tilt	0	20850	2510	1	Mid	-0.09	0.131	13.73	14.00	1.064	0.139	/
	Level2&3			0	20850	2510	50	Mid	-0.13	0.124	13.64	14.00	1.086	0.135	/
	Level2&3		Right Cheek	0	20850	2510	1	Mid	0.05	0.291	13.73	14.00	1.064	0.310	/
	Level2&3			0	20850	2510	50	Mid	-0.15	0.285	13.64	14.00	1.086	0.310	/
	Level2&3		Right Tilt	0	20850	2510	1	Mid	0.06	0.312	13.73	14.00	1.064	0.332	/
	Level2&3			0	20850	2510	50	Mid	-0.04	0.304	13.64	14.00	1.086	0.330	/
Down	Off	QPSK	Left Cheek	0	20850	2510	1	Mid	0.10	0.100	22.78	24.40	1.452	0.145	/
	Off			0	20850	2510	50	Mid	0.18	0.078	21.78	23.40	1.452	0.113	/
	Off		Left Tilt	0	20850	2510	1	Mid	-0.14	0.068	22.78	24.40	1.452	0.099	/
	Off			0	20850	2510	50	Mid	-0.16	0.055	21.78	23.40	1.452	0.080	/
	Off		Right Cheek	0	20850	2510	1	Mid	-0.09	0.156	22.78	24.40	1.452	0.227	/
	Off			0	20850	2510	50	Mid	0.05	0.123	21.78	23.40	1.452	0.179	/
	Off		Right Tilt	0	20850	2510	1	Mid	0.15	0.111	22.78	24.40	1.452	0.161	/
	Off			0	20850	2510	50	Mid	0.03	0.086	21.78	23.40	1.452	0.125	/
Body-worn Accessory															
Up	Off	QPSK	Front Side	15	20850	2510	1	Mid	0.05	0.285	23.19	23.50	1.074	0.306	/
	Off			15	20850	2510	50	Mid	-0.01	0.223	22.29	22.50	1.050	0.234	/
	Off		Back Side	15	20850	2510	1	Mid	0.17	0.529	23.19	23.50	1.074	0.568	23#
	Off			15	20850	2510	50	Mid	0.19	0.457	22.29	22.50	1.050	0.480	/
Up	Level5&6	QPSK	Front Side	15	20850	2510	1	Mid	-0.16	0.065	18.26	18.50	1.057	0.069	/
	Level5&6			15	20850	2510	50	Mid	-0.08	0.054	18.34	18.50	1.038	0.056	/
	Level5&6		Back Side	15	20850	2510	1	Mid	0.00	0.125	18.26	18.50	1.057	0.132	/
	Level5&6			15	20850	2510	50	Mid	0.19	0.121	18.34	18.50	1.038	0.126	/
Down	Off	QPSK	Front Side	15	20850	2510	1	Mid	-0.01	0.116	22.78	23.50	1.180	0.137	/
	Off			15	20850	2510	50	Mid	0.12	0.090	21.78	22.50	1.180	0.106	/
	Off		Back Side	15	20850	2510	1	Mid	0.18	0.285	22.78	23.50	1.180	0.336	/
	Off			15	20850	2510	50	Mid	-0.05	0.211	21.78	22.50	1.180	0.249	/
Down	Level5&6	QPSK	Front Side	15	20850	2510	1	Mid	-0.15	0.034	17.78	18.50	1.180	0.040	/
	Level5&6			15	20850	2510	50	Mid	0.05	0.032	17.82	18.50	1.169	0.037	/

	Level5&6		Back Side	15	20850	2510	1	Mid	-0.05	0.087	17.78	18.50	1.180	0.103	/
	Level5&6			15	20850	2510	50	Mid	0.11	0.072	17.82	18.50	1.169	0.084	/
Hotspot															
Up	Level5&6	QPSK	Front Side	10	20850	2510	1	Mid	0.18	0.135	18.26	18.50	1.057	0.143	/
	Level5&6			10	20850	2510	50	Mid	-0.12	0.126	18.34	18.50	1.038	0.131	/
	Level5&6		Back Side	10	20850	2510	1	Mid	-0.19	0.271	18.26	18.50	1.057	0.286	/
	Level5&6			10	20850	2510	50	Mid	-0.13	0.253	18.34	18.50	1.038	0.262	/
	Level5&6		Right Edge	10	20850	2510	1	Mid	-0.10	0.143	18.26	18.50	1.057	0.151	/
	Level5&6			10	20850	2510	50	Mid	0.16	0.134	18.34	18.50	1.038	0.139	/
	Level5&6		Top Edge	10	20850	2510	1	Mid	0.12	0.342	18.26	18.50	1.057	0.361	/
	Level5&6			10	20850	2510	50	Mid	0.07	0.398	18.34	18.50	1.038	0.413	24#
Down	Level5&6	QPSK	Front Side	10	20850	2510	1	Mid	-0.14	0.070	17.78	18.50	1.180	0.083	/
	Level5&6			10	20850	2510	50	Mid	0.05	0.068	17.82	18.50	1.169	0.080	/
	Level5&6		Back Side	10	20850	2510	1	Mid	0.02	0.164	17.78	18.50	1.180	0.194	/
	Level5&6			10	20850	2510	50	Mid	0.15	0.161	17.82	18.50	1.169	0.188	/
	Level5&6		Left Edge	10	20850	2510	1	Mid	0.04	0.042	17.78	18.50	1.180	0.050	/
	Level5&6			10	20850	2510	50	Mid	0.06	0.040	17.82	18.50	1.169	0.047	/
	Level5&6		Right Edge	10	20850	2510	1	Mid	0.13	0.013	17.78	18.50	1.180	0.015	/
	Level5&6			10	20850	2510	50	Mid	0.04	0.012	17.82	18.50	1.169	0.014	/
	Level5&6		Bottom Edge	10	20850	2510	1	Mid	0.01	0.112	17.78	18.50	1.180	0.132	/
	Level5&6			10	20850	2510	50	Mid	-0.14	0.109	17.82	18.50	1.169	0.127	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.9LTE Band 12 (10MHz Bandwidth)

Antenn a	Power Reductio n	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															
Up	Off	QPSK	Left Cheek	0	23130	711	1	Mid	-0.16	0.010	23.80	24.50	1.175	0.012	/
	Off			0	23130	711	25	Mid	0.03	0.011	22.88	23.50	1.153	0.013	/
	Off		Left Tilt	0	23130	711	1	Mid	0.06	0.008	23.80	24.50	1.175	0.009	/
	Off			0	23130	711	25	Mid	-0.17	0.007	22.88	23.50	1.153	0.008	/
	Off		Right Cheek	0	23130	711	1	Mid	-0.18	0.044	23.80	24.50	1.175	0.052	25#
	Off			0	23130	711	25	Mid	0.06	0.032	22.88	23.50	1.153	0.037	/
	Off		Right Tilt	0	23130	711	1	Mid	0.15	0.029	23.80	24.50	1.175	0.034	/
	Off			0	23130	711	25	Mid	-0.09	0.025	22.88	23.50	1.153	0.029	/
Down	Off	QPSK	Left Cheek	0	23060	704	1	Mid	-0.06	0.011	23.57	24.50	1.239	0.014	/
	Off			0	23060	704	25	Mid	0.18	0.009	22.72	23.50	1.197	0.011	/
	Off		Left Tilt	0	23060	704	1	Mid	0.08	0.006	23.57	24.50	1.239	0.007	/
	Off			0	23060	704	25	Mid	-0.14	0.005	22.72	23.50	1.197	0.006	/
	Off		Right Cheek	0	23060	704	1	Mid	-0.14	0.031	23.57	24.50	1.239	0.038	/
	Off			0	23060	704	25	Mid	0.05	0.029	22.72	23.50	1.197	0.035	/
	Off		Right Tilt	0	23060	704	1	Mid	0.17	0.019	23.57	24.50	1.239	0.024	/
	Off			0	23060	704	25	Mid	0.12	0.017	22.72	23.50	1.197	0.020	/
Body-worn Accessory															
Up	Off	QPSK	Front Side	15	23130	711	1	Mid	0.09	0.009	23.80	24.50	1.175	0.010	/
	Off			15	23130	711	25	Mid	0.05	0.008	22.88	23.50	1.153	0.010	/
	Off		Back Side	15	23130	711	1	Mid	-0.05	0.011	23.80	24.50	1.175	0.012	/
	Off			15	23130	711	25	Mid	-0.01	0.009	22.88	23.50	1.153	0.011	/
Down	Off	QPSK	Front Side	15	23060	704	1	Mid	0.17	0.140	23.57	24.50	1.239	0.173	/
	Off			15	23060	704	25	Mid	0.08	0.130	22.72	23.50	1.197	0.156	/
	Off		Back Side	15	23060	704	1	Mid	0.01	0.198	23.57	24.50	1.239	0.245	26#
	Off			15	23060	704	25	Mid	-0.15	0.189	22.72	23.50	1.197	0.226	/
Hotspot															
Up	Off	QPSK	Front Side	10	23130	711	1	Mid	-0.12	0.009	23.80	24.50	1.175	0.011	/
	Off			10	23130	711	25	Mid	-0.02	0.010	22.88	23.50	1.153	0.012	/
	Off		Back Side	10	23130	711	1	Mid	0.07	0.011	23.80	24.50	1.175	0.013	/
	Off			10	23130	711	25	Mid	-0.07	0.012	22.88	23.50	1.153	0.014	/
	Off		Right Edge	10	23130	711	1	Mid	0.09	0.006	23.80	24.50	1.175	0.007	/
	Off			10	23130	711	25	Mid	-0.06	0.007	22.88	23.50	1.153	0.008	/
	Off		Top Edge	10	23130	711	1	Mid	0.03	0.004	23.80	24.50	1.175	0.005	/
	Off			10	23130	711	25	Mid	0.12	0.007	22.88	23.50	1.153	0.008	/
Down	Off	QPSK	Front Side	10	23060	704	1	Mid	0.15	0.129	23.57	24.50	1.239	0.160	/
	Off			10	23060	704	25	Mid	-0.08	0.101	22.72	23.50	1.197	0.121	/
	Off		Back Side	10	23060	704	1	Mid	0.06	0.204	23.57	24.50	1.239	0.253	27#
	Off			10	23060	704	25	Mid	0.09	0.182	22.72	23.50	1.197	0.218	/
	Off		Left Edge	10	23060	704	1	Mid	-0.08	0.142	23.57	24.50	1.239	0.176	/

	Off			10	23060	704	25	Mid	0.17	0.113	22.72	23.50	1.197	0.135	/
	Off		Right Edge	10	23060	704	1	Mid	0.01	0.195	23.57	24.50	1.239	0.242	/
	Off			10	23060	704	25	Mid	0.19	0.181	22.72	23.50	1.197	0.217	/
	Off		Bottom Edge	10	23060	704	1	Mid	-0.04	0.090	23.57	24.50	1.239	0.111	/
	Off			10	23060	704	25	Mid	-0.16	0.066	22.72	23.50	1.197	0.079	/

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

10.10 LTE Band 26 (15MHz Bandwidth)

Antenn a	Power Reductio n	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															
Up	Off	QPSK	Left Cheek	0	26765	821.5	1	Mid	-0.04	0.289	23.86	24.50	1.159	0.335	/
	Off			0	26765	821.5	36	Mid	0.09	0.229	22.94	23.50	1.138	0.261	/
	Off		Left Tilt	0	26765	821.5	1	Mid	0.10	0.252	23.86	24.50	1.159	0.292	/
	Off			0	26765	821.5	36	Mid	0.00	0.196	22.94	23.50	1.138	0.223	/
	Off		Right Cheek	0	26765	821.5	1	Mid	-0.04	0.406	23.86	24.50	1.159	0.470	28#
	Off			0	26765	821.5	36	Mid	0.17	0.312	22.94	23.50	1.138	0.355	/
	Off		Right Tilt	0	26765	821.5	1	Mid	-0.18	0.311	23.86	24.50	1.159	0.360	/
	Off			0	26765	821.5	36	Mid	-0.01	0.257	22.94	23.50	1.138	0.292	/
Down	Off	QPSK	Left Cheek	0	26765	821.5	1	Mid	-0.19	0.181	23.73	24.50	1.194	0.216	/
	Off			0	26765	821.5	36	Mid	0.01	0.142	22.74	23.50	1.191	0.169	/
	Off		Left Tilt	0	26765	821.5	1	Mid	-0.16	0.100	23.73	24.50	1.194	0.119	/
	Off			0	26765	821.5	36	Mid	0.15	0.079	22.74	23.50	1.191	0.094	/
	Off		Right Cheek	0	26765	821.5	1	Mid	0.10	0.150	23.73	24.50	1.194	0.179	/
	Off			0	26765	821.5	36	Mid	-0.12	0.119	22.74	23.50	1.191	0.142	/
	Off		Right Tilt	0	26765	821.5	1	Mid	-0.15	0.091	23.73	24.50	1.194	0.109	/
	Off			0	26765	821.5	36	Mid	-0.15	0.072	22.74	23.50	1.191	0.086	/
Body-worn Accessory															
Up	Off	QPSK	Front Side	15	26765	821.5	1	Mid	-0.17	0.016	23.86	24.50	1.159	0.019	/
	Off			15	26765	821.5	36	Mid	-0.08	0.014	22.94	23.50	1.138	0.016	/
	Off		Back Side	15	26765	821.5	1	Mid	0.16	0.043	23.86	24.50	1.159	0.050	/
	Off			15	26765	821.5	36	Mid	-0.02	0.034	22.94	23.50	1.138	0.039	/
Down	Off	QPSK	Front Side	15	26765	821.5	1	Mid	0.19	0.133	23.73	24.50	1.194	0.159	/
	Off			15	26765	821.5	36	Mid	-0.01	0.101	22.74	23.50	1.191	0.120	/
	Off		Back Side	15	26765	821.5	1	Mid	0.00	0.152	23.73	24.50	1.194	0.181	29#
	Off			15	26765	821.5	36	Mid	0.12	0.148	22.74	23.50	1.191	0.176	/
Hotspot															
Up	Off	QPSK	Front Side	10	26765	821.5	1	Mid	-0.03	0.041	23.86	24.50	1.159	0.048	/
	Off			10	26765	821.5	36	Mid	0.06	0.032	22.94	23.50	1.138	0.036	/
	Off		Back Side	10	26765	821.5	1	Mid	0.16	0.059	23.86	24.50	1.159	0.068	/
	Off			10	26765	821.5	36	Mid	0.04	0.050	22.94	23.50	1.138	0.057	/
	Off		Right Edge	10	26765	821.5	1	Mid	-0.02	0.011	23.86	24.50	1.159	0.013	/
	Off			10	26765	821.5	36	Mid	-0.16	0.009	22.94	23.50	1.138	0.010	/
	Off		Top Edge	10	26765	821.5	1	Mid	0.19	0.069	23.86	24.50	1.159	0.080	/
	Off			10	26765	821.5	36	Mid	0.12	0.060	22.94	23.50	1.138	0.068	/
Down	Off	QPSK	Front Side	10	26765	821.5	1	Mid	-0.10	0.151	23.73	24.50	1.194	0.180	/
	Off			10	26765	821.5	36	Mid	0.00	0.109	22.74	23.50	1.191	0.130	/
	Off		Back Side	10	26765	821.5	1	Mid	0.03	0.198	23.73	24.50	1.194	0.236	30#
	Off			10	26765	821.5	36	Mid	-0.10	0.170	22.74	23.50	1.191	0.203	/
	Off		Left Edge	10	26765	821.5	1	Mid	0.14	0.107	23.73	24.50	1.194	0.128	/

	Off			10	26765	821.5	36	Mid	0.11	0.079	22.74	23.50	1.191	0.094	/
	Off		Right Edge	10	26765	821.5	1	Mid	0.02	0.191	23.73	24.50	1.194	0.228	/
	Off			10	26765	821.5	36	Mid	-0.14	0.147	22.74	23.50	1.191	0.175	/
	Off		Bottom Edge	10	26765	821.5	1	Mid	0.16	0.187	23.73	24.50	1.194	0.223	/
	Off			10	26765	821.5	36	Mid	0.09	0.138	22.74	23.50	1.191	0.164	/

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

10.11 LTE Band 66 (20MHz Bandwidth)

Antenn a	Power Reductio n	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															
Up	Level1	QPSK	Left Cheek	0	132322	1745	1	Mid	0.01	0.461	19.14	19.50	1.086	0.501	/
	Level1			0	132322	1745	50	Mid	0.06	0.465	19.13	19.50	1.089	0.506	/
	Level1		Left Tilt	0	132322	1745	1	Mid	-0.09	0.573	19.14	19.50	1.086	0.623	/
	Level1			0	132322	1745	50	Mid	0.01	0.575	19.13	19.50	1.089	0.626	/
	Level1		Right Cheek	0	132322	1745	1	Mid	0.06	0.723	19.14	19.50	1.086	0.785	/
	Level1			0	132322	1745	50	Mid	0.09	0.734	19.13	19.50	1.089	0.799	/
	Level1		Right Tilt	0	132322	1745	1	Mid	0.03	0.980	19.14	19.50	1.086	1.065	/
	Level1			0	132072	1720	1	Mid	0.04	0.915	19.10	19.50	1.096	1.003	/
	Level1			0	132572	1770	1	Mid	-0.03	0.943	19.13	19.50	1.089	1.027	/
	Level1			0	132322	1745	50	Mid	-0.11	0.993	19.13	19.50	1.089	1.081	31#
	Level1			0	132072	1720	50	High	0.12	0.920	19.11	19.50	1.094	1.006	/
	Level1			0	132572	1770	50	Mid	0.15	0.951	19.11	19.50	1.094	1.040	/
	Level1			0	132322	1745	100	Mid	-0.09	0.926	19.07	19.50	1.104	1.022	/
	Level1														
Up	Level2&3	QPSK	Left Cheek	0	132322	1745	1	Mid	0.15	0.357	18.16	18.50	1.081	0.386	/
	Level2&3			0	132322	1745	50	Mid	0.06	0.360	18.13	18.50	1.089	0.392	/
	Level2&3		Left Tilt	0	132322	1745	1	Mid	0.08	0.444	18.16	18.50	1.081	0.480	/
	Level2&3			0	132322	1745	50	Mid	-0.07	0.447	18.13	18.50	1.089	0.487	/
	Level2&3		Right Cheek	0	132322	1745	1	Mid	-0.13	0.577	18.16	18.50	1.081	0.624	/
	Level2&3			0	132322	1745	50	Mid	0.16	0.574	18.13	18.50	1.089	0.625	/
	Level2&3		Right Tilt	0	132322	1745	1	Mid	0.11	0.656	18.16	18.50	1.081	0.709	/
	Level2&3			0	132322	1745	50	Mid	0.01	0.659	18.13	18.50	1.089	0.718	/
Down	Off	QPSK	Left Cheek	0	132572	1770	1	Mid	-0.19	0.090	23.64	24.00	1.086	0.098	/
	Off			0	132572	1770	50	Mid	0.12	0.072	22.61	23.00	1.094	0.079	/
	Off		Left Tilt	0	132572	1770	1	Mid	0.01	0.045	23.64	24.00	1.086	0.049	/
	Off			0	132572	1770	50	Mid	-0.06	0.022	22.61	23.00	1.094	0.024	/
	Off		Right Cheek	0	132572	1770	1	Mid	0.14	0.067	23.64	24.00	1.086	0.073	/
	Off			0	132572	1770	50	Mid	-0.12	0.050	22.61	23.00	1.094	0.055	/
	Off		Right Tilt	0	132572	1770	1	Mid	0.07	0.058	23.64	24.00	1.086	0.063	/
	Off			0	132572	1770	50	Mid	-0.16	0.045	22.61	23.00	1.094	0.049	/
Body-worn Accessory															
Up	Level4	QPSK	Front Side	15	132572	1770	1	Mid	0.15	0.142	21.67	22.00	1.079	0.153	/
	Level4			15	132572	1770	50	Mid	0.14	0.136	21.68	22.00	1.076	0.146	/
	Level4		Back Side	15	132572	1770	1	Mid	-0.03	0.195	21.67	22.00	1.079	0.210	32#
	Level4			15	132572	1770	50	Mid	0.01	0.187	21.68	22.00	1.076	0.201	/
Up	Level5&6	QPSK	Front Side	15	132322	1745	1	Mid	-0.09	0.112	20.68	21.00	1.076	0.121	/
	Level5&6			15	132322	1745	50	Mid	0.01	0.108	20.67	21.00	1.079	0.117	/
	Level5&6		Back Side	15	132322	1745	1	Mid	0.19	0.151	20.68	21.00	1.076	0.163	/
	Level5&6			15	132322	1745	50	Mid	-0.15	0.148	20.67	21.00	1.079	0.160	/
Down	Level4	QPSK	Front Side	15	132072	1720	1	Mid	-0.06	0.151	20.65	21.00	1.084	0.164	/

	Level4		Back Side	15	132072	1720	50	Mid	-0.11	0.143	20.63	21.00	1.089	0.156	/
	Level4			15	132072	1720	1	Mid	0.10	0.190	20.65	21.00	1.084	0.206	/
	Level4			15	132072	1720	50	Mid	0.10	0.188	20.63	21.00	1.089	0.205	/
Down	Level5&6	QPSK	Front Side	15	132072	1720	1	Mid	-0.06	0.119	19.62	20.00	1.091	0.130	/
	15			132072	1720	50	Mid	-0.04	0.113	19.61	20.00	1.094	0.124	/	
	Level5&6		Back Side	15	132072	1720	1	Mid	-0.15	0.151	19.62	20.00	1.091	0.165	/
	Level5&6			15	132072	1720	50	Mid	-0.08	0.148	19.61	20.00	1.094	0.162	/
Hotspot															
Up	Level5&6	QPSK	Front Side	10	132322	1745	1	Mid	-0.17	0.221	20.68	21.00	1.076	0.238	/
	10			132322	1745	50	Mid	0.16	0.218	20.67	21.00	1.079	0.235	/	
	Level5&6		Back Side	10	132322	1745	1	Mid	0.19	0.283	20.68	21.00	1.076	0.305	/
	Level5&6			10	132322	1745	50	Mid	-0.01	0.271	20.67	21.00	1.079	0.292	/
	Level5&6		Right Edge	10	132322	1745	1	Mid	0.18	0.052	20.68	21.00	1.076	0.056	/
	Level5&6			10	132322	1745	50	Mid	0.06	0.049	20.67	21.00	1.079	0.053	/
	Level5&6		Top Edge	10	132322	1745	1	Mid	0.05	0.488	20.68	21.00	1.076	0.525	/
	Level5&6			10	132322	1745	50	Mid	-0.18	0.490	20.67	21.00	1.079	0.529	33#
Down	Level5&6	QPSK	Front Side	10	132072	1720	1	Mid	-0.02	0.171	19.62	20.00	1.091	0.187	/
	10			132072	1720	50	Mid	-0.04	0.168	19.61	20.00	1.094	0.184	/	
	Level5&6		Back Side	10	132072	1720	1	Mid	0.06	0.281	19.62	20.00	1.091	0.307	/
	Level5&6			10	132072	1720	50	Mid	0.03	0.274	19.61	20.00	1.094	0.300	/
	Level5&6		Left Edge	10	132072	1720	1	Mid	0.11	0.063	19.62	20.00	1.091	0.069	/
	Level5&6			10	132072	1720	50	Mid	-0.05	0.061	19.61	20.00	1.094	0.067	/
	Level5&6		Right Edge	10	132072	1720	1	Mid	0.13	0.033	19.62	20.00	1.091	0.036	/
	Level5&6			10	132072	1720	50	Mid	-0.05	0.032	19.61	20.00	1.094	0.035	/
	Level5&6		Bottom Edge	10	132072	1720	1	Mid	0.06	0.429	19.62	20.00	1.091	0.468	/
	Level5&6			10	132072	1720	50	Mid	-0.04	0.439	19.61	20.00	1.094	0.480	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.12 LTE Band 38 (20MHz Bandwidth)

Antenn a	Power Reductio n	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															
Up	Level1	QPSK	Left Cheek	0	38150	2610	1	Mid	0.05	0.202	19.68	20.00	1.076	0.217	/
	Level1			0	38150	2610	50	Mid	-0.18	0.191	19.53	20.00	1.114	0.213	/
	Level1		Left Tilt	0	38150	2610	1	Mid	0.02	0.172	19.68	20.00	1.076	0.185	/
	Level1			0	38150	2610	50	Mid	0.04	0.165	19.53	20.00	1.114	0.184	/
	Level1		Right Cheek	0	38150	2610	1	Mid	-0.11	0.607	19.68	20.00	1.076	0.653	/
	Level1			0	38150	2610	50	Mid	-0.02	0.645	19.53	20.00	1.114	0.719	34#
	Level1		Right Tilt	0	38150	2610	1	Mid	-0.17	0.457	19.68	20.00	1.076	0.492	/
	Level1			0	38150	2610	50	Mid	0.08	0.442	19.53	20.00	1.114	0.493	/
Up	Level2&3	QPSK	Left Cheek	0	38150	2610	1	Mid	-0.10	0.165	18.68	19.00	1.076	0.178	/
	Level2&3			0	38150	2610	50	Mid	-0.14	0.153	18.50	19.00	1.122	0.172	/
	Level2&3		Left Tilt	0	38150	2610	1	Mid	-0.07	0.135	18.68	19.00	1.076	0.146	/
	Level2&3			0	38150	2610	50	Mid	0.11	0.129	18.50	19.00	1.122	0.145	/
	Level2&3		Right Cheek	0	38150	2610	1	Mid	-0.05	0.458	18.68	19.00	1.076	0.493	/
	Level2&3			0	38150	2610	50	Mid	0.11	0.435	18.50	19.00	1.122	0.488	/
	Level2&3		Right Tilt	0	38150	2610	1	Mid	0.08	0.363	18.68	19.00	1.076	0.391	/
	Level2&3			0	38150	2610	50	Mid	-0.19	0.345	18.50	19.00	1.122	0.387	/
Down	Off	QPSK	Left Cheek	0	38150	2610	1	Mid	-0.15	0.084	23.79	24.00	1.050	0.088	/
	Off			0	38150	2610	50	Mid	-0.04	0.075	22.65	23.00	1.084	0.081	/
	Off		Left Tilt	0	38150	2610	1	Mid	0.14	0.063	23.79	24.00	1.050	0.066	/
	Off			0	38150	2610	50	Mid	0.00	0.049	22.65	23.00	1.084	0.053	/
	Off		Right Cheek	0	38150	2610	1	Mid	-0.17	0.156	23.79	24.00	1.050	0.164	/
	Off			0	38150	2610	50	Mid	0.00	0.125	22.65	23.00	1.084	0.135	/
	Off		Right Tilt	0	38150	2610	1	Mid	0.17	0.094	23.79	24.00	1.050	0.099	/
	Off			0	38150	2610	50	Mid	-0.09	0.072	22.65	23.00	1.084	0.078	/
Body-worn Accessory															
Up	Off	QPSK	Front Side	15	38150	2610	1	Mid	-0.16	0.175	23.71	24.00	1.069	0.187	/
	Off			15	38150	2610	50	Mid	0.07	0.142	22.55	23.00	1.109	0.158	/
	Off		Back Side	15	38150	2610	1	Mid	-0.01	0.249	23.71	24.00	1.069	0.266	35#
	Off			15	38150	2610	50	Mid	-0.18	0.198	22.55	23.00	1.109	0.220	/
Up	Level5&6	QPSK	Front Side	15	38150	2610	1	Mid	0.04	0.141	22.70	23.00	1.072	0.151	/
	Level5&6			15	38150	2610	50	Mid	-0.15	0.140	22.54	23.00	1.112	0.156	/
	Level5&6		Back Side	15	38150	2610	1	Mid	-0.02	0.195	22.70	23.00	1.072	0.209	/
	Level5&6			15	38150	2610	50	Mid	0.02	0.192	22.54	23.00	1.112	0.213	/
Down	Off	QPSK	Front Side	15	38150	2610	1	Mid	-0.03	0.135	23.79	24.00	1.050	0.142	/
	Off			15	38150	2610	50	Mid	0.08	0.098	22.65	23.00	1.084	0.106	/
	Off		Back Side	15	38150	2610	1	Mid	0.06	0.186	23.79	24.00	1.050	0.195	/
	Off			15	38150	2610	50	Mid	0.14	0.136	22.65	23.00	1.084	0.147	/
Down	Level5&6	QPSK	Front Side	15	38150	2610	1	Mid	0.17	0.081	21.75	22.00	1.059	0.086	/
	Level5&6			15	38150	2610	50	Mid	-0.15	0.080	21.61	22.00	1.094	0.088	/

	Level5&6		Back Side	15	38150	2610	1	Mid	-0.08	0.112	21.75	22.00	1.059	0.119	/
	Level5&6			15	38150	2610	50	Mid	0.02	0.110	21.61	22.00	1.094	0.120	/
Hotspot															
Up	Level5&6	QPSK	Front Side	10	38150	2610	1	Mid	-0.15	0.241	22.70	23.00	1.072	0.258	/
	Level5&6			10	38150	2610	50	Mid	-0.04	0.230	22.54	23.00	1.112	0.256	/
	Level5&6		Back Side	10	38150	2610	1	Mid	-0.02	0.334	22.70	23.00	1.072	0.358	/
	Level5&6			10	38150	2610	50	Mid	0.15	0.365	22.54	23.00	1.112	0.406	36#
	Level5&6		Right Edge	10	38150	2610	1	Mid	-0.14	0.228	22.70	23.00	1.072	0.244	/
	Level5&6			10	38150	2610	50	Mid	0.17	0.215	22.54	23.00	1.112	0.239	/
	Level5&6		Top Edge	10	38150	2610	1	Mid	0.00	0.181	22.70	23.00	1.072	0.194	/
	Level5&6			10	38150	2610	50	Mid	0.00	0.170	22.54	23.00	1.112	0.189	/
Down	Level5&6	QPSK	Front Side	10	38150	2610	1	Mid	0.09	0.141	21.75	22.00	1.059	0.149	/
	Level5&6			10	38150	2610	50	Mid	0.13	0.135	21.61	22.00	1.094	0.148	/
	Level5&6		Back Side	10	38150	2610	1	Mid	0.18	0.254	21.75	22.00	1.059	0.269	/
	Level5&6			10	38150	2610	50	Mid	-0.16	0.238	21.61	22.00	1.094	0.260	/
	Level5&6		Left Edge	10	38150	2610	1	Mid	0.03	0.091	21.75	22.00	1.059	0.096	/
	Level5&6			10	38150	2610	50	Mid	0.18	0.083	21.61	22.00	1.094	0.091	/
	Level5&6		Right Edge	10	38150	2610	1	Mid	-0.05	0.022	21.75	22.00	1.059	0.023	/
	Level5&6			10	38150	2610	50	Mid	-0.18	0.019	21.61	22.00	1.094	0.021	/
	Level5&6		Bottom Edge	10	38150	2610	1	Mid	0.18	0.177	21.75	22.00	1.059	0.187	/
	Level5&6			10	38150	2610	50	Mid	-0.14	0.162	21.61	22.00	1.094	0.177	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.13 LTE Band 41 (20MHz Bandwidth)

Antenn a	Power Reductio n	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															
Up	Level1	QPSK	Left Cheek	0	41140	2645	1	Mid	0.16	0.206	19.81	20.00	1.045	0.215	/
	Level1			0	41140	2645	50	Mid	-0.13	0.196	19.72	20.00	1.067	0.209	/
	Level1		Left Tilt	0	41140	2645	1	Mid	-0.02	0.171	19.81	20.00	1.045	0.179	/
	Level1			0	41140	2645	50	Mid	0.13	0.166	19.72	20.00	1.067	0.177	/
	Level1		Right Cheek	0	41140	2645	1	Mid	0.00	0.590	19.81	20.00	1.045	0.616	37#
	Level1			0	41140	2645	50	Mid	0.15	0.531	19.72	20.00	1.067	0.566	/
	Level1		Right Tilt	0	41140	2645	1	Mid	0.08	0.432	19.81	20.00	1.045	0.451	/
	Level1			0	41140	2645	50	Mid	0.17	0.420	19.72	20.00	1.067	0.448	/
Up	Level2&3	QPSK	Left Cheek	0	41140	2645	1	Mid	-0.17	0.164	18.95	19.00	1.012	0.166	/
	Level2&3			0	41140	2645	50	Mid	0.05	0.158	18.92	19.00	1.019	0.161	/
	Level2&3		Left Tilt	0	41140	2645	1	Mid	-0.15	0.136	18.95	19.00	1.012	0.137	/
	Level2&3			0	41140	2645	50	Mid	0.07	0.132	18.92	19.00	1.019	0.134	/
	Level2&3		Right Cheek	0	41140	2645	1	Mid	0.18	0.469	18.95	19.00	1.012	0.474	/
	Level2&3			0	41140	2645	50	Mid	0.01	0.460	18.92	19.00	1.019	0.469	/
	Level2&3		Right Tilt	0	41140	2645	1	Mid	-0.13	0.343	18.95	19.00	1.012	0.347	/
	Level2&3			0	41140	2645	50	Mid	0.18	0.339	18.92	19.00	1.019	0.345	/
Down	Off	QPSK	Left Cheek	0	41140	2645	1	Mid	-0.04	0.108	23.80	24.00	1.047	0.113	/
	Off			0	41140	2645	50	Mid	-0.05	0.086	22.65	23.00	1.084	0.093	/
	Off		Left Tilt	0	41140	2645	1	Mid	-0.01	0.062	23.80	24.00	1.047	0.065	/
	Off			0	41140	2645	50	Mid	-0.11	0.050	22.65	23.00	1.084	0.054	/
	Off		Right Cheek	0	41140	2645	1	Mid	-0.01	0.174	23.80	24.00	1.047	0.182	/
	Off			0	41140	2645	50	Mid	0.03	0.139	22.65	23.00	1.084	0.151	/
	Off		Right Tilt	0	41140	2645	1	Mid	0.08	0.090	23.80	24.00	1.047	0.094	/
	Off			0	41140	2645	50	Mid	0.05	0.076	22.65	23.00	1.084	0.082	/
Body-worn Accessory															
Up	Off	QPSK	Front Side	15	41140	2645	1	Mid	-0.01	0.170	23.92	24.00	1.019	0.173	/
	Off			15	41140	2645	50	Mid	0.07	0.123	22.81	23.00	1.045	0.129	/
	Off		Back Side	15	41140	2645	1	Mid	-0.15	0.235	23.92	24.00	1.019	0.239	38#
	Off			15	41140	2645	50	Mid	0.10	0.155	22.81	23.00	1.045	0.162	/
Up	Level5&6	QPSK	Front Side	15	41140	2645	1	Mid	-0.13	0.128	22.96	23.00	1.009	0.129	/
	Level5&6			15	41140	2645	50	Mid	-0.01	0.125	22.98	23.00	1.005	0.126	/
	Level5&6		Back Side	15	41140	2645	1	Mid	0.14	0.158	22.96	23.00	1.009	0.159	/
	Level5&6			15	41140	2645	50	Mid	0.15	0.157	22.98	23.00	1.005	0.158	/
Down	Off	QPSK	Front Side	15	41140	2645	1	Mid	-0.05	0.098	23.80	24.00	1.047	0.103	/
	Off			15	41140	2645	50	Mid	0.14	0.074	22.65	23.00	1.084	0.080	/
	Off		Back Side	15	41140	2645	1	Mid	0.05	0.182	23.80	24.00	1.047	0.191	/
	Off			15	41140	2645	50	Mid	0.00	0.141	22.65	23.00	1.084	0.153	/
Down	Level5&6	QPSK	Front Side	15	41140	2645	1	High	-0.14	0.046	20.77	21.00	1.054	0.049	/
	Level5&6			15	41140	2645	50	High	0.19	0.043	20.67	21.00	1.079	0.046	/

	Level5&6		Back Side	15	41140	2645	1	High	0.05	0.087	20.77	21.00	1.054	0.092	/
	Level5&6			15	41140	2645	50	High	0.13	0.085	20.67	21.00	1.079	0.092	/
Hotspot															
Up	Level5&6	QPSK	Front Side	10	41140	2645	1	Mid	0.04	0.240	22.96	23.00	1.009	0.242	/
	Level5&6			10	41140	2645	50	Mid	0.04	0.233	22.98	23.00	1.005	0.234	/
	Level5&6		Back Side	10	41140	2645	1	Mid	0.13	0.344	22.96	23.00	1.009	0.347	39#
	Level5&6			10	41140	2645	50	Mid	-0.01	0.342	22.98	23.00	1.005	0.344	/
	Level5&6		Right Edge	10	41140	2645	1	Mid	0.01	0.207	22.96	23.00	1.009	0.209	/
	Level5&6			10	41140	2645	50	Mid	0.18	0.201	22.98	23.00	1.005	0.202	/
	Level5&6		Top Edge	10	41140	2645	1	Mid	0.06	0.139	22.96	23.00	1.009	0.140	/
	Level5&6			10	41140	2645	50	Mid	-0.09	0.135	22.98	23.00	1.005	0.136	/
Down	Level5&6	QPSK	Front Side	10	41140	2645	1	Mid	0.15	0.122	20.77	21.00	1.054	0.129	/
	Level5&6			10	41140	2645	50	Mid	0.14	0.116	20.67	21.00	1.079	0.125	/
	Level5&6		Back Side	10	41140	2645	1	Mid	-0.02	0.205	20.77	21.00	1.054	0.216	/
	Level5&6			10	41140	2645	50	Mid	0.07	0.201	20.67	21.00	1.079	0.217	/
	Level5&6		Left Edge	10	41140	2645	1	Mid	0.08	0.071	20.77	21.00	1.054	0.075	/
	Level5&6			10	41140	2645	50	Mid	-0.12	0.067	20.67	21.00	1.079	0.072	/
	Level5&6		Right Edge	10	41140	2645	1	Mid	0.19	0.019	20.77	21.00	1.054	0.020	/
	Level5&6			10	41140	2645	50	Mid	-0.04	0.017	20.67	21.00	1.079	0.018	/
	Level5&6		Bottom Edge	10	41140	2645	1	Mid	0.14	0.132	20.77	21.00	1.054	0.139	/
	Level5&6			10	41140	2645	50	Mid	-0.16	0.125	20.67	21.00	1.079	0.135	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.14 WIFI 2.4GHz

Mode	Power Reduction	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														
802.11b	Level1	Left Cheek	0	6	2437	0.03	0.751	99.46	1.005	15.59	17.00	1.384	1.045	40#
	Level1		0	2	2417	-0.11	0.730	99.46	1.005	15.58	17.00	1.387	1.018	/
	Level1		0	10	2457	-0.02	0.709	99.46	1.005	15.43	17.00	1.435	1.023	/
	Level1	Left Tilt	0	6	2437	0.09	0.487	99.46	1.005	15.59	17.00	1.384	0.677	/
	Level1	Right Cheek	0	6	2437	0.10	0.318	99.46	1.005	15.59	17.00	1.384	0.442	/
	Level1	Right Tilt	0	6	2437	-0.15	0.380	99.46	1.005	15.59	17.00	1.384	0.529	/
802.11b	Level2	Left Cheek	0	11	2462	-0.18	0.501	99.46	1.005	12.91	14.50	1.442	0.726	/
	Level2	Left Tilt	0	11	2462	-0.02	0.345	99.46	1.005	12.91	14.50	1.442	0.501	/
	Level2	Right Cheek	0	11	2462	-0.08	0.228	99.46	1.005	12.91	14.50	1.442	0.330	/
	Level2	Right Tilt	0	11	2462	0.08	0.276	99.46	1.005	12.91	14.50	1.442	0.400	/
Body-worn Accessory														
802.11b	Off	Front Side	15	6	2437	0.15	0.185	99.46	1.005	18.65	20.00	1.365	0.254	/
	Off	Back Side	15	6	2437	0.11	0.202	99.46	1.005	18.65	20.00	1.365	0.277	41#
802.11b	Level5	Front Side	15	11	2462	-0.14	0.055	99.46	1.005	12.91	14.50	1.442	0.080	/
	Level5	Back Side	15	11	2462	0.15	0.062	99.46	1.005	12.91	14.50	1.442	0.090	/
Hotspot														
802.11b	Level5	Front Side	10	11	2462	-0.17	0.082	99.46	1.005	12.91	14.50	1.442	0.118	/
	Level5	Back Side	10	11	2462	0.11	0.093	99.46	1.005	12.91	14.50	1.442	0.135	/
	Level5	Left Edge	10	11	2462	-0.09	0.055	99.46	1.005	12.91	14.50	1.442	0.080	/
	Level5	Right Edge	10	11	2462	-0.03	0.007	99.46	1.005	12.91	14.50	1.442	0.010	/
	Level5	Top Edge	10	11	2462	0.05	0.114	99.46	1.005	12.91	14.50	1.442	0.165	42#
	Level5	Bottom Edge	10	11	2462	0.13	0.003	99.46	1.005	12.91	14.50	1.442	0.004	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

10.15 WIFI 5GHz

Fre. Band	Mode	Power Reduction	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	802.11 n40	Level1	Left Cheek	0	54	5270	-0.05	0.890	94.88	1.054	14.87	15.50	1.156	1.084	/
		Level1	Left Tilt	0	54	5270	0.14	0.925	94.88	1.054	14.87	15.50	1.156	1.127	43#
		Level1		0	62	5310	0.05	0.730	94.88	1.054	13.66	15.00	1.361	1.047	/
		Level1	Right Cheek	0	54	5270	0.13	0.301	94.88	1.054	14.87	15.50	1.156	0.367	/
		Level1	Right Tilt	0	54	5270	-0.12	0.312	94.88	1.054	14.87	15.50	1.156	0.380	/
5.3G	802.11 ac80	Level3	Left Cheek	0	58	5290	0.12	0.368	90.26	1.108	11.17	12.50	1.358	0.554	/
		Level3	Left Tilt	0	58	5290	-0.10	0.385	90.26	1.108	11.17	12.50	1.358	0.579	/
		Level3	Right Cheek	0	58	5290	0.13	0.126	90.26	1.108	11.17	12.50	1.358	0.190	/
		Level3	Right Tilt	0	58	5290	0.05	0.130	90.26	1.108	11.17	12.50	1.358	0.196	/
5.6G	802.11 ac80	Off	Left Cheek	0	138	5690	0.08	0.638	90.26	1.108	17.37	19.00	1.455	1.029	/
		Off	Left Tilt	0	138	5690	0.02	0.693	90.26	1.108	17.37	19.00	1.455	1.117	44#
		Off		0	106	5530	0.10	0.205	90.26	1.108	13.18	15.00	1.521	0.345	/
		Off		0	122	5610	0.14	0.322	90.26	1.108	15.12	17.00	1.542	0.550	/
		Off	Right Cheek	0	138	5690	0.05	0.298	90.26	1.108	17.37	19.00	1.455	0.481	/
		Off	Right Tilt	0	138	5690	-0.02	0.364	90.26	1.108	17.37	19.00	1.455	0.587	/
5.6G	802.11 ac80	Level3	Left Cheek	0	138	5690	0.09	0.309	90.26	1.108	14.61	16.00	1.377	0.471	/
		Level3	Left Tilt	0	138	5690	-0.15	0.366	90.26	1.108	14.61	16.00	1.377	0.558	/
		Level3	Right Cheek	0	138	5690	0.18	0.157	90.26	1.108	14.61	16.00	1.377	0.240	/
		Level3	Right Tilt	0	138	5690	0.02	0.193	90.26	1.108	14.61	16.00	1.377	0.294	/
5.8G	802.11 ac80	Off	Left Cheek	0	155	5775	-0.18	0.254	90.26	1.108	17.57	19.00	1.390	0.391	/
		Off	Left Tilt	0	155	5775	0.16	0.303	90.26	1.108	17.57	19.00	1.390	0.467	45#
		Off	Right Cheek	0	155	5775	-0.02	0.259	90.26	1.108	17.57	19.00	1.390	0.399	/
		Off	Right Tilt	0	155	5775	0.08	0.225	90.26	1.108	17.57	19.00	1.390	0.346	/
Body-worn Accessory															
5.2G	802.11 n40	Off	Front Side	15	54	5270	0.02	0.140	94.88	1.054	17.69	19.00	1.352	0.200	/
		Off	Back Side	15	54	5270	0.05	0.376	94.88	1.054	17.69	19.00	1.352	0.536	46#
5.3G	802.11 n40	Level6	Front Side	15	62	5310	-0.07	0.043	94.88	1.054	12.86	14.00	1.300	0.059	/
		Level6	Back Side	15	62	5310	0.02	0.140	94.88	1.054	12.86	14.00	1.300	0.192	/
5.6G	802.11 ac80	Off	Front Side	15	138	5690	-0.11	0.103	90.26	1.108	17.37	19.00	1.455	0.166	/
		Off	Back Side	15	138	5690	0.09	0.383	90.26	1.108	17.37	19.00	1.455	0.618	47#
5.6G	802.11 n40	Level6	Front Side	15	134	5670	-0.09	0.017	94.88	1.054	11.41	13.00	1.442	0.026	/
		Level6	Back Side	15	134	5670	0.16	0.089	94.88	1.054	11.41	13.00	1.442	0.135	/
5.8G	802.11 ac80	Off	Front Side	15	155	5775	0.03	0.035	90.26	1.108	17.57	19.00	1.390	0.054	/
		Off	Back Side	15	155	5775	0.02	0.358	90.26	1.108	17.57	19.00	1.390	0.551	48#
5.8G	802.11 n40	Level6	Front Side	15	159	5795	0.02	0.024	94.88	1.054	12.72	14.00	1.343	0.034	/
		Level6	Back Side	15	159	5795	0.03	0.125	94.88	1.054	12.72	14.00	1.343	0.177	/
Hotspot															
5.2G	802.11 n40	Level6	Front Side	10	38	5190	0.18	0.084	94.88	1.054	12.82	14.00	1.312	0.116	/
		Level6	Back Side	10	38	5190	-0.04	0.199	94.88	1.054	12.82	14.00	1.312	0.275	/

		Level6	Left Edge	10	38	5190	0.11	0.166	94.88	1.054	12.82	14.00	1.312	0.230	/
		Level6	Right Edge	10	38	5190	-0.16	0.006	94.88	1.054	12.82	14.00	1.312	0.008	/
		Level6	Top Edge	10	38	5190	-0.16	0.202	94.88	1.054	12.82	14.00	1.312	0.279	49#
		Level6	Bottom Edge	10	38	5190	-0.16	0.002	94.88	1.054	12.82	14.00	1.312	0.003	/
5.8G	802.11 n40	Level6	Front Side	10	159	5795	-0.09	0.018	94.88	1.054	12.72	14.00	1.343	0.025	/
		Level6	Back Side	10	159	5795	-0.15	0.101	94.88	1.054	12.72	14.00	1.343	0.143	50#
		Level6	Left Edge	10	159	5795	-0.07	0.067	94.88	1.054	12.72	14.00	1.343	0.095	/
		Level6	Right Edge	10	159	5795	0.04	0.005	94.88	1.054	12.72	14.00	1.343	0.007	/
		Level6	Top Edge	10	159	5795	-0.09	0.067	94.88	1.054	12.72	14.00	1.343	0.095	/
		Level6	Bottom Edge	10	159	5795	0.16	0.000	94.88	1.054	12.72	14.00	1.343	0.000	/

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

Fre. Band	Mode	Power Reduction	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	802.11 n40	Off	Front Side	0	54	5270	-0.15	0.835	94.88	1.054	17.69	19.00	1.352	1.190	/
		Off	Back Side	0	54	5270	0.03	0.829	94.88	1.054	17.69	19.00	1.352	1.181	/
		Off	Left Edge	0	54	5270	0.19	0.905	94.88	1.054	17.69	19.00	1.352	1.290	/
		Off	Right Edge	0	54	5270	0.01	0.046	94.88	1.054	17.69	19.00	1.352	0.066	/
		Off	Top Edge	0	54	5270	0.06	1.450	94.88	1.054	17.69	19.00	1.352	2.066	51#
		Off		0	62	5310	0.08	0.572	94.88	1.054	13.66	15.00	1.361	0.821	/
		Off	Bottom Edge	0	54	5270	-0.11	0.021	94.88	1.054	17.69	19.00	1.352	0.030	/
5.3G	802.11 n40	Level6	Front Side	0	62	5310	0.12	0.259	94.88	1.054	12.86	14.00	1.300	0.355	/
		Level6	Back Side	0	62	5310	0.06	0.225	94.88	1.054	12.86	14.00	1.300	0.308	/
		Level6	Left Edge	0	62	5310	-0.06	0.226	94.88	1.054	12.86	14.00	1.300	0.310	/
		Level6	Right Edge	0	62	5310	0.13	0.012	94.88	1.054	12.86	14.00	1.300	0.016	/
		Level6	Top Edge	0	62	5310	0.04	0.401	94.88	1.054	12.86	14.00	1.300	0.550	/
		Level6	Bottom Edge	0	62	5310	0.00	0.005	94.88	1.054	12.86	14.00	1.300	0.007	/
5.6G	802.11 ac80	Off	Front Side	0	138	5690	-0.03	0.425	90.26	1.108	17.37	19.00	1.455	0.685	/
		Off	Back Side	0	138	5690	0.11	1.320	90.26	1.108	17.37	19.00	1.455	2.129	/
		Off	Left Edge	0	138	5690	0.14	1.140	90.26	1.108	17.37	19.00	1.455	1.838	/
		Off	Right Edge	0	138	5690	0.05	0.115	90.26	1.108	17.37	19.00	1.455	0.185	/
		Off	Top Edge	0	138	5690	0.18	1.360	90.26	1.108	17.37	19.00	1.455	2.193	52#
		Off		0	106	5530	-0.03	0.536	90.26	1.108	13.18	15.00	1.521	0.903	/
		Off		0	122	5610	0.10	0.796	90.26	1.108	15.12	17.00	1.542	1.360	/
		Off	Bottom Edge	0	138	5690	-0.03	0.023	90.26	1.108	17.37	19.00	1.455	0.037	/
5.6G	802.11 n40	Level6	Front Side	0	134	5670	0.01	0.071	94.88	1.054	11.41	13.00	1.442	0.108	/
		Level6	Back Side	0	134	5670	0.02	0.254	94.88	1.054	11.41	13.00	1.442	0.386	/
		Level6	Left Edge	0	134	5670	0.08	0.216	94.88	1.054	11.41	13.00	1.442	0.328	/
		Level6	Right Edge	0	134	5670	-0.19	0.021	94.88	1.054	11.41	13.00	1.442	0.032	/
		Level6	Top Edge	0	134	5670	-0.16	0.281	94.88	1.054	11.41	13.00	1.442	0.427	/
		Level6	Bottom Edge	0	134	5670	0.10	0.003	94.88	1.054	11.41	13.00	1.442	0.005	/

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

10.16 Bluetooth

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													
DH5	Left Cheek	0	0	2402	0.16	0.275	76.68	1.304	11.10	11.50	1.096	0.393	53#
	Left Tilt	0	0	2402	-0.03	0.191	76.68	1.304	11.10	11.50	1.096	0.273	/
	Right Cheek	0	0	2402	0.12	0.126	76.68	1.304	11.10	11.50	1.096	0.180	/
	Right Tilt	0	0	2402	-0.10	0.153	76.68	1.304	11.10	11.50	1.096	0.219	/
Body-worn Accessory													
DH5	Front Side	15	0	2402	-0.06	0.038	76.68	1.304	11.10	11.50	1.096	0.054	/
	Back Side	15	0	2402	0.05	0.041	76.68	1.304	11.10	11.50	1.096	0.058	54#
Hotspot													
DH5	Front Side	10	0	2402	0.13	0.066	76.68	1.304	11.10	11.50	1.096	0.094	/
	Back Side	10	0	2402	-0.07	0.070	76.68	1.304	11.10	11.50	1.096	0.100	/
	Left Edge	10	0	2402	-0.01	0.052	76.68	1.304	11.10	11.50	1.096	0.074	/
	Right Edge	10	0	2402	0.05	0.002	76.68	1.304	11.10	11.50	1.096	0.003	/
	Top Edge	10	0	2402	0.03	0.097	76.68	1.304	11.10	11.50	1.096	0.139	55#
	Bottom Edge	10	0	2402	0.14	0.001	76.68	1.304	11.10	11.50	1.096	0.001	/
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 ^{1st} Measured SAR (W/kg)	Largest to Smallest SAR Ratio
1745	LTE Band 66	Head	Right Tilt	0.993	Yes	0.952	1.04
5270	WIFI 5GHz	Head	Left Tilt	0.925	Yes	0.921	1.00
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.							

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
1	GSM + 2.4G WIFI	Yes	Yes	Yes
2	GSM + 5G WIFI + Bluetooth	Yes	Yes	Yes
3	WCDMA + 2.4G WIFI	Yes	Yes	Yes
4	WCDMA + 5G WIFI + Bluetooth	Yes	Yes	Yes
5	LTE + 2.4G WIFI	Yes	Yes	Yes
6	LTE + 5G WIFI + Bluetooth	Yes	Yes	Yes
7	5G WIFI + Bluetooth	Yes	Yes	Yes

Note:

1. 2G&3G&4G share the same antenna and can't transmit simultaneously.
2. WWAN antennas can switch automatically, but can't transmit simultaneously.
3. The maximum SAR summation is calculated based on the same configuration and test position.
4. This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
5. 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).
6. The simultaneous transmission combinations of the three antennas contain combinations of two antennas.

12.2 Sum SAR of Simultaneous Transmission

12.2.1 Head Simultaneous Transmission SAR Evaluation for WWAN Antenna Up and WLAN 2.4G/5G

Band	Power Reduction	Position	Stand alone SAR				SUM SAR	
			1	2	3	4	Sum SAR (1+2)	Sum SAR (1+3+4)
			WWAN	2.4GWIFI	5GWIFI	Bluetooth		
GSM850	Level2&3	Left Cheek	0.466	0.726	0.554	0.393	1.192	1.413
	Level2&3	Left Tilt	0.387	0.501	0.579	0.273	0.888	1.239
	Level2&3	Right Cheek	0.716	0.330	0.399	0.180	1.045	1.295
	Level2&3	Right Tilt	0.526	0.400	0.346	0.219	0.926	1.092
GSM 1900	Level2&3	Left Cheek	0.178	0.726	0.554	0.393	0.904	1.125
	Level2&3	Left Tilt	0.227	0.501	0.579	0.273	0.728	1.079
	Level2&3	Right Cheek	0.251	0.330	0.399	0.180	0.580	0.830
	Level2&3	Right Tilt	0.345	0.400	0.346	0.219	0.745	0.911
WCDMA B2	Level2&3	Left Cheek	0.300	0.726	0.554	0.393	1.026	1.247
	Level2&3	Left Tilt	0.360	0.501	0.579	0.273	0.861	1.213
	Level2&3	Right Cheek	0.420	0.330	0.399	0.180	0.750	0.999
	Level2&3	Right Tilt	0.480	0.400	0.346	0.219	0.880	1.045
WCDMA B4	Level2&3	Left Cheek	0.432	0.726	0.554	0.393	1.158	1.379
	Level2&3	Left Tilt	0.499	0.501	0.579	0.273	1.001	1.352
	Level2&3	Right Cheek	0.572	0.330	0.399	0.180	0.901	1.151
	Level2&3	Right Tilt	0.737	0.400	0.346	0.219	1.137	1.302
WCDMA B5	Off	Left Cheek	0.322	0.726	0.554	0.393	1.048	1.269
	Off	Left Tilt	0.286	0.501	0.579	0.273	0.787	1.138
	Off	Right Cheek	0.495	0.330	0.399	0.180	0.825	1.074
	Off	Right Tilt	0.363	0.400	0.346	0.219	0.763	0.928
LTE B2	Level2&3	Left Cheek	0.305	0.726	0.554	0.393	1.031	1.252
	Level2&3	Left Tilt	0.361	0.501	0.579	0.273	0.863	1.214
	Level2&3	Right Cheek	0.414	0.330	0.399	0.180	0.744	0.993
	Level2&3	Right Tilt	0.487	0.400	0.346	0.219	0.887	1.052
LTE B5	Level2&3	Left Cheek	0.328	0.726	0.554	0.393	1.054	1.275
	Level2&3	Left Tilt	0.260	0.501	0.579	0.273	0.762	1.113
	Level2&3	Right Cheek	0.409	0.330	0.399	0.180	0.739	0.988
	Level2&3	Right Tilt	0.319	0.400	0.346	0.219	0.719	0.884
LTE B7	Level2&3	Left Cheek	0.111	0.726	0.554	0.393	0.836	1.058
	Level2&3	Left Tilt	0.139	0.501	0.579	0.273	0.641	0.992
	Level2&3	Right Cheek	0.310	0.330	0.399	0.180	0.639	0.889
	Level2&3	Right Tilt	0.332	0.400	0.346	0.219	0.732	0.897
LTE B12	Off	Left Cheek	0.013	0.726	0.554	0.393	0.738	0.960
	Off	Left Tilt	0.009	0.501	0.579	0.273	0.511	0.862
	Off	Right Cheek	0.052	0.330	0.399	0.180	0.381	0.631
	Off	Right Tilt	0.034	0.400	0.346	0.219	0.434	0.599
LTE B26	Off	Left Cheek	0.335	0.726	0.554	0.393	1.061	1.282

	Off	Left Tilt	0.292	0.501	0.579	0.273	0.793	1.145
	Off	Right Cheek	0.470	0.330	0.399	0.180	0.800	1.049
	Off	Right Tilt	0.360	0.400	0.346	0.219	0.760	0.926
LTE B66	Level2&3	Left Cheek	0.392	0.726	0.554	0.393	1.118	1.339
	Level2&3	Left Tilt	0.487	0.501	0.579	0.273	0.988	1.339
	Level2&3	Right Cheek	0.625	0.330	0.399	0.180	0.955	1.204
	Level2&3	Right Tilt	0.718	0.400	0.346	0.219	1.117	1.283
LTE B38	Level2&3	Left Cheek	0.178	0.726	0.554	0.393	0.903	1.125
	Level2&3	Left Tilt	0.146	0.501	0.579	0.273	0.647	0.998
	Level2&3	Right Cheek	0.493	0.330	0.399	0.180	0.823	1.072
	Level2&3	Right Tilt	0.391	0.400	0.346	0.219	0.791	0.956
LTE B41	Level2&3	Left Cheek	0.166	0.726	0.554	0.393	0.891	1.113
	Level2&3	Left Tilt	0.137	0.501	0.579	0.273	0.639	0.990
	Level2&3	Right Cheek	0.474	0.330	0.399	0.180	0.804	1.053
	Level2&3	Right Tilt	0.347	0.400	0.346	0.219	0.747	0.912

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 1.413 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 Up and WLAN 2.4G/5G

Band	Power Reduction	Position	Stand alone SAR				SUM SAR	
			1	2	3	4	Sum SAR (1+2)	Sum SAR (1+3+4)
			WWAN	2.4GWIFI	5GWIFI	Bluetooth		
GSM850	Off	Front Side 15mm	0.140	0.080	0.059	0.054	0.220	0.253
	Off	Back Side 15mm	0.175	0.090	0.192	0.058	0.265	0.425
GSM 1900	Level5&6	Front Side 15mm	0.101	0.080	0.059	0.054	0.181	0.214
	Level5&6	Back Side 15mm	0.115	0.090	0.192	0.058	0.205	0.365
WCDMA B2	Level5&6	Front Side 15mm	0.109	0.080	0.059	0.054	0.189	0.222
	Level5&6	Back Side 15mm	0.137	0.090	0.192	0.058	0.226	0.387
WCDMA B4	Level5&6	Front Side 15mm	0.115	0.080	0.059	0.054	0.195	0.229
	Level5&6	Back Side 15mm	0.144	0.090	0.192	0.058	0.234	0.394
WCDMA B5	Off	Front Side 15mm	0.022	0.080	0.059	0.054	0.101	0.135
	Off	Back Side 15mm	0.063	0.090	0.192	0.058	0.153	0.313
LTE B2	Level5&6	Front Side 15mm	0.117	0.080	0.059	0.054	0.196	0.230
	Level5&6	Back Side 15mm	0.155	0.090	0.192	0.058	0.244	0.405
LTE B5	Level5&6	Front Side 15mm	0.011	0.080	0.059	0.054	0.091	0.125
	Level5&6	Back Side 15mm	0.040	0.090	0.192	0.058	0.130	0.290
LTE B7	Level5&6	Front Side 15mm	0.069	0.080	0.059	0.054	0.148	0.182
	Level5&6	Back Side 15mm	0.132	0.090	0.192	0.058	0.222	0.382
LTE B12	Off	Front Side 15mm	0.010	0.080	0.059	0.054	0.090	0.124
	Off	Back Side 15mm	0.012	0.090	0.192	0.058	0.102	0.262
LTE B26	Off	Front Side 15mm	0.019	0.080	0.059	0.054	0.098	0.132
	Off	Back Side 15mm	0.050	0.090	0.192	0.058	0.140	0.300
LTE B66	Level5&6	Front Side 15mm	0.121	0.080	0.059	0.054	0.200	0.234
	Level5&6	Back Side 15mm	0.163	0.090	0.192	0.058	0.252	0.413
LTE B38	Level5&6	Front Side 15mm	0.156	0.080	0.059	0.054	0.235	0.269
	Level5&6	Back Side 15mm	0.213	0.090	0.192	0.058	0.303	0.463
LTE B41	Level5&6	Front Side 15mm	0.129	0.080	0.059	0.054	0.209	0.242
	Level5&6	Back Side 15mm	0.159	0.090	0.192	0.058	0.249	0.410

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 0.463 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 Up and WLAN 2.4G/5G

Band	Power Reduction	Position	Stand alone SAR				SUM SAR	
			1	2	3	4	Sum SAR (1+2)	Sum SAR (1+3+4)
			WWAN	2.4GWIFI	5GWIFI	Bluetooth		
GSM850	Off	Front Side 10mm	0.209	0.118	0.116	0.094	0.327	0.419
	Off	Back Side 10mm	0.206	0.135	0.275	0.100	0.341	0.581
	Off	Right Edge 10mm	0.137	0.010	0.008	0.003	0.148	0.148
	Off	Top Edge 10mm	0.288	0.165	0.279	0.139	0.453	0.706
GSM 1900	Level5&6	Front Side 10mm	0.187	0.118	0.116	0.094	0.305	0.398
	Level5&6	Back Side 10mm	0.249	0.135	0.275	0.100	0.384	0.625
	Level5&6	Right Edge 10mm	0.049	0.010	0.008	0.003	0.059	0.060
	Level5&6	Top Edge 10mm	0.339	0.165	0.279	0.139	0.504	0.757
WCDMA B2	Level5&6	Front Side 10mm	0.224	0.118	0.116	0.094	0.342	0.434
	Level5&6	Back Side 10mm	0.280	0.135	0.275	0.100	0.415	0.655
	Level5&6	Right Edge 10mm	0.063	0.010	0.008	0.003	0.073	0.074
	Level5&6	Top Edge 10mm	0.499	0.165	0.279	0.139	0.664	0.917
WCDMA B4	Level5&6	Front Side 10mm	0.253	0.118	0.116	0.094	0.371	0.463
	Level5&6	Back Side 10mm	0.313	0.135	0.275	0.100	0.448	0.688
	Level5&6	Right Edge 10mm	0.065	0.010	0.008	0.003	0.076	0.076
	Level5&6	Top Edge 10mm	0.553	0.165	0.279	0.139	0.718	0.971
WCDMA B5	Off	Front Side 10mm	0.069	0.118	0.116	0.094	0.187	0.279
	Off	Back Side 10mm	0.090	0.135	0.275	0.100	0.225	0.466
	Off	Right Edge 10mm	0.020	0.010	0.008	0.003	0.031	0.031
	Off	Top Edge 10mm	0.119	0.165	0.279	0.139	0.284	0.537
LTE B2	Level5&6	Front Side 10mm	0.226	0.118	0.116	0.094	0.344	0.437
	Level5&6	Back Side 10mm	0.267	0.135	0.275	0.100	0.402	0.642
	Level5&6	Right Edge 10mm	0.063	0.010	0.008	0.003	0.074	0.075
	Level5&6	Top Edge 10mm	0.460	0.165	0.279	0.139	0.625	0.878
LTE B5	Off	Front Side 10mm	0.060	0.118	0.116	0.094	0.178	0.271
	Off	Back Side 10mm	0.080	0.135	0.275	0.100	0.215	0.456
	Off	Right Edge 10mm	0.004	0.010	0.008	0.003	0.014	0.015
	Off	Top Edge 10mm	0.089	0.165	0.279	0.139	0.254	0.507
LTE B7	Level5&6	Front Side 10mm	0.143	0.118	0.116	0.094	0.261	0.353
	Level5&6	Back Side 10mm	0.286	0.135	0.275	0.100	0.421	0.662
	Level5&6	Right Edge 10mm	0.151	0.010	0.008	0.003	0.162	0.162
	Level5&6	Top Edge 10mm	0.413	0.165	0.279	0.139	0.578	0.831
LTE B12	Off	Front Side 10mm	0.012	0.118	0.116	0.094	0.130	0.222
	Off	Back Side 10mm	0.014	0.135	0.275	0.100	0.149	0.389
	Off	Right Edge 10mm	0.008	0.010	0.008	0.003	0.018	0.019
	Off	Top Edge 10mm	0.008	0.165	0.279	0.139	0.173	0.426
LTE B26	Off	Front Side 10mm	0.048	0.118	0.116	0.094	0.166	0.258
	Off	Back Side 10mm	0.068	0.135	0.275	0.100	0.203	0.443
	Off	Right Edge 10mm	0.013	0.010	0.008	0.003	0.023	0.024

	Off	Top Edge 10mm	0.080	0.165	0.279	0.139	0.245	0.498
LTE B66	Level5&6	Front Side 10mm	0.238	0.118	0.116	0.094	0.356	0.448
	Level5&6	Back Side 10mm	0.305	0.135	0.275	0.100	0.440	0.680
	Level5&6	Right Edge 10mm	0.056	0.010	0.008	0.003	0.066	0.067
	Level5&6	Top Edge 10mm	0.529	0.165	0.279	0.139	0.694	0.947
LTE B38	Level5&6	Front Side 10mm	0.258	0.118	0.116	0.094	0.376	0.469
	Level5&6	Back Side 10mm	0.406	0.135	0.275	0.100	0.541	0.781
	Level5&6	Right Edge 10mm	0.244	0.010	0.008	0.003	0.255	0.255
	Level5&6	Top Edge 10mm	0.194	0.165	0.279	0.139	0.359	0.612
LTE B41	Level5&6	Front Side 10mm	0.242	0.118	0.116	0.094	0.360	0.453
	Level5&6	Back Side 10mm	0.347	0.135	0.275	0.100	0.482	0.722
	Level5&6	Right Edge 10mm	0.209	0.010	0.008	0.003	0.219	0.220
	Level5&6	Top Edge 10mm	0.140	0.165	0.279	0.139	0.305	0.559

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 0.971 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

12.2.4 Head Simultaneous Transmission SAR Evaluation for WWAN Antenna Down and WLAN 2.4G/5G

Band	Power Reduction	Position	Stand alone SAR				SUM SAR	
			1	2	3	4	Sum SAR (1+2)	Sum SAR (1+3+4)
			WWAN	2.4GWIFI	5GWIFI	Bluetooth		
GSM850	off	Left Cheek	0.411	0.726	0.554	0.393	1.137	1.359
	off	Left Tilt	0.211	0.501	0.579	0.273	0.712	1.064
	off	Right Cheek	0.350	0.330	0.399	0.180	0.680	0.929
	off	Right Tilt	0.193	0.400	0.346	0.219	0.593	0.758
GSM 1900	off	Left Cheek	0.158	0.726	0.554	0.393	0.884	1.105
	off	Left Tilt	0.104	0.501	0.579	0.273	0.605	0.956
	off	Right Cheek	0.115	0.330	0.399	0.180	0.444	0.694
	off	Right Tilt	0.082	0.400	0.346	0.219	0.482	0.648
WCDMA B2	off	Left Cheek	0.192	0.726	0.554	0.393	0.918	1.139
	off	Left Tilt	0.093	0.501	0.579	0.273	0.594	0.946
	off	Right Cheek	0.153	0.330	0.399	0.180	0.482	0.732
	off	Right Tilt	0.103	0.400	0.346	0.219	0.503	0.668
WCDMA B4	off	Left Cheek	0.161	0.726	0.554	0.393	0.887	1.108
	off	Left Tilt	0.082	0.501	0.579	0.273	0.583	0.934
	off	Right Cheek	0.102	0.330	0.399	0.180	0.431	0.681
	off	Right Tilt	0.097	0.400	0.346	0.219	0.497	0.662
WCDMA B5	off	Left Cheek	0.192	0.726	0.554	0.393	0.917	1.139
	off	Left Tilt	0.108	0.501	0.579	0.273	0.609	0.960
	off	Right Cheek	0.159	0.330	0.399	0.180	0.489	0.738
	off	Right Tilt	0.091	0.400	0.346	0.219	0.491	0.656
LTE B2	off	Left Cheek	0.160	0.726	0.554	0.393	0.885	1.107
	off	Left Tilt	0.074	0.501	0.579	0.273	0.575	0.927
	off	Right Cheek	0.130	0.330	0.399	0.180	0.460	0.709
	off	Right Tilt	0.081	0.400	0.346	0.219	0.481	0.646
LTE B5	off	Left Cheek	0.220	0.726	0.554	0.393	0.946	1.167
	off	Left Tilt	0.124	0.501	0.579	0.273	0.625	0.977
	off	Right Cheek	0.158	0.330	0.399	0.180	0.488	0.737
	off	Right Tilt	0.115	0.400	0.346	0.219	0.515	0.680
LTE B7	off	Left Cheek	0.145	0.726	0.554	0.393	0.871	1.092
	off	Left Tilt	0.099	0.501	0.579	0.273	0.600	0.951
	off	Right Cheek	0.227	0.330	0.399	0.180	0.556	0.806
	off	Right Tilt	0.161	0.400	0.346	0.219	0.561	0.726
LTE B12	Off	Left Cheek	0.014	0.726	0.554	0.393	0.739	0.961
	Off	Left Tilt	0.007	0.501	0.579	0.273	0.509	0.860
	Off	Right Cheek	0.038	0.330	0.399	0.180	0.368	0.617
	Off	Right Tilt	0.024	0.400	0.346	0.219	0.423	0.589
LTE B26	Off	Left Cheek	0.216	0.726	0.554	0.393	0.942	1.163
	Off	Left Tilt	0.119	0.501	0.579	0.273	0.621	0.972
	Off	Right Cheek	0.179	0.330	0.399	0.180	0.509	0.758

	Off	Right Tilt	0.109	0.400	0.346	0.219	0.509	0.674
LTE B66	Off	Left Cheek	0.098	0.726	0.554	0.393	0.823	1.045
	Off	Left Tilt	0.049	0.501	0.579	0.273	0.550	0.901
	Off	Right Cheek	0.073	0.330	0.399	0.180	0.403	0.652
	Off	Right Tilt	0.063	0.400	0.346	0.219	0.463	0.628
LTE B38	Off	Left Cheek	0.088	0.726	0.554	0.393	0.814	1.035
	Off	Left Tilt	0.066	0.501	0.579	0.273	0.567	0.919
	Off	Right Cheek	0.164	0.330	0.399	0.180	0.493	0.743
	Off	Right Tilt	0.099	0.400	0.346	0.219	0.499	0.664
LTE B41	Off	Left Cheek	0.113	0.726	0.554	0.393	0.839	1.060
	Off	Left Tilt	0.065	0.501	0.579	0.273	0.566	0.917
	Off	Right Cheek	0.182	0.330	0.399	0.180	0.512	0.761
	Off	Right Tilt	0.094	0.400	0.346	0.219	0.494	0.660

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 1.359 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

12.2.5 Body-Worn Simultaneous Transmission SAR Evaluation for WWAN Antenna Down and WLAN 2.4G/5G

Band	Power Reduction	Position	Stand alone SAR				SUM SAR	
			1	2	3	4	Sum SAR (1+2)	Sum SAR (1+3+4)
			WWAN	2.4GWIFI	5GWIFI	Bluetooth		
GSM850	Level 5&6	Front Side 15mm	0.306	0.080	0.059	0.054	0.386	0.419
	Level 5&6	Back Side 15mm	0.317	0.090	0.192	0.058	0.407	0.567
GSM 1900	Level 5&6	Front Side 15mm	0.093	0.080	0.059	0.054	0.173	0.206
	Level 5&6	Back Side 15mm	0.115	0.090	0.192	0.058	0.205	0.365
WCDMA B2	Level 5&6	Front Side 15mm	0.139	0.080	0.059	0.054	0.219	0.253
	Level 5&6	Back Side 15mm	0.185	0.090	0.192	0.058	0.275	0.435
WCDMA B4	Level 5&6	Front Side 15mm	0.133	0.080	0.059	0.054	0.213	0.246
	Level 5&6	Back Side 15mm	0.161	0.090	0.192	0.058	0.251	0.411
WCDMA B5	Level 5&6	Front Side 15mm	0.115	0.080	0.059	0.054	0.194	0.228
	Level 5&6	Back Side 15mm	0.136	0.090	0.192	0.058	0.226	0.387
LTE B2	Level 5&6	Front Side 15mm	0.142	0.080	0.059	0.054	0.222	0.255
	Level 5&6	Back Side 15mm	0.204	0.090	0.192	0.058	0.294	0.454
LTE B5	Level 5&6	Front Side 15mm	0.130	0.080	0.059	0.054	0.210	0.244
	Level 5&6	Back Side 15mm	0.168	0.090	0.192	0.058	0.258	0.418
LTE B7	Level 5&6	Front Side 15mm	0.040	0.080	0.059	0.054	0.120	0.153
	Level 5&6	Back Side 15mm	0.103	0.090	0.192	0.058	0.193	0.353
LTE B12	Off	Front Side 15mm	0.173	0.080	0.059	0.054	0.253	0.287
	Off	Back Side 15mm	0.245	0.090	0.192	0.058	0.335	0.495
LTE B26	Off	Front Side 15mm	0.159	0.080	0.059	0.054	0.239	0.272
	Off	Back Side 15mm	0.181	0.090	0.192	0.058	0.271	0.432
LTE B66	Level 5&6	Front Side 15mm	0.130	0.080	0.059	0.054	0.210	0.243
	Level 5&6	Back Side 15mm	0.165	0.090	0.192	0.058	0.255	0.415
LTE B38	Level 5&6	Front Side 15mm	0.088	0.080	0.059	0.054	0.167	0.201
	Level 5&6	Back Side 15mm	0.120	0.090	0.192	0.058	0.210	0.370
LTE B41	Level 5&6	Front Side 15mm	0.049	0.080	0.059	0.054	0.128	0.162
	Level 5&6	Back Side 15mm	0.092	0.090	0.192	0.058	0.182	0.342

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 0.567 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

12.2.6 Hotspot Simultaneous Transmission SAR Evaluation for WWAN Antenna Down and WLAN 2.4G/5G

Band	Power Reduction	Position	Stand alone SAR				SUM SAR	
			1	2	3	4	Sum SAR (1+2)	Sum SAR (1+3+4)
			WWAN	2.4GWIFI	5GWIFI	Bluetooth		
GSM850	Level 5&6	Front Side 10mm	0.428	0.118	0.116	0.094	0.546	0.638
	Level 5&6	Back Side 10mm	0.497	0.135	0.275	0.100	0.632	0.872
	Level 5&6	Left Edge 10mm	0.228	0.080	0.230	0.074	0.308	0.532
	Level 5&6	Right Edge 10mm	0.412	0.010	0.008	0.003	0.423	0.423
	Level 5&6	Bottom Edge 10mm	0.465	0.004	0.003	0.001	0.468	0.469
GSM 1900	Level 5&6	Front Side 10mm	0.159	0.118	0.116	0.094	0.277	0.370
	Level 5&6	Back Side 10mm	0.216	0.135	0.275	0.100	0.351	0.591
	Level 5&6	Left Edge 10mm	0.054	0.080	0.230	0.074	0.134	0.358
	Level 5&6	Right Edge 10mm	0.039	0.010	0.008	0.003	0.050	0.050
	Level 5&6	Bottom Edge 10mm	0.254	0.004	0.003	0.001	0.258	0.258
WCDMA B2	Level 5&6	Front Side 10mm	0.287	0.118	0.116	0.094	0.405	0.497
	Level 5&6	Back Side 10mm	0.379	0.135	0.275	0.100	0.514	0.755
	Level 5&6	Left Edge 10mm	0.128	0.080	0.230	0.074	0.208	0.432
	Level 5&6	Right Edge 10mm	0.111	0.010	0.008	0.003	0.121	0.122
	Level 5&6	Bottom Edge 10mm	0.575	0.004	0.003	0.001	0.579	0.579
WCDMA B4	Level 5&6	Front Side 10mm	0.254	0.118	0.116	0.094	0.372	0.464
	Level 5&6	Back Side 10mm	0.383	0.135	0.275	0.100	0.518	0.758
	Level 5&6	Left Edge 10mm	0.102	0.080	0.230	0.074	0.182	0.406
	Level 5&6	Right Edge 10mm	0.066	0.010	0.008	0.003	0.077	0.078
	Level 5&6	Bottom Edge 10mm	0.547	0.004	0.003	0.001	0.551	0.551
WCDMA B5	Level 5&6	Front Side 10mm	0.130	0.118	0.116	0.094	0.249	0.341
	Level 5&6	Back Side 10mm	0.175	0.135	0.275	0.100	0.310	0.550
	Level 5&6	Left Edge 10mm	0.089	0.080	0.230	0.074	0.170	0.393
	Level 5&6	Right Edge 10mm	0.168	0.010	0.008	0.003	0.178	0.179
	Level 5&6	Bottom Edge 10mm	0.158	0.004	0.003	0.001	0.162	0.162
LTE B2	Level 5&6	Front Side 10mm	0.276	0.118	0.116	0.094	0.394	0.487
	Level 5&6	Back Side 10mm	0.357	0.135	0.275	0.100	0.492	0.733
	Level 5&6	Left Edge 10mm	0.100	0.080	0.230	0.074	0.180	0.404
	Level 5&6	Right Edge 10mm	0.070	0.010	0.008	0.003	0.081	0.081
	Level 5&6	Bottom Edge 10mm	0.551	0.004	0.003	0.001	0.555	0.555
LTE B5	Level 5&6	Front Side 10mm	0.170	0.118	0.116	0.094	0.288	0.380
	Level 5&6	Back Side 10mm	0.202	0.135	0.275	0.100	0.337	0.578
	Level 5&6	Left Edge 10mm	0.110	0.080	0.230	0.074	0.191	0.414
	Level 5&6	Right Edge 10mm	0.200	0.010	0.008	0.003	0.210	0.211
	Level 5&6	Bottom Edge 10mm	0.194	0.004	0.003	0.001	0.198	0.198
LTE B7	Level 5&6	Front Side 10mm	0.083	0.118	0.116	0.094	0.201	0.293
	Level 5&6	Back Side 10mm	0.194	0.135	0.275	0.100	0.329	0.569
	Level 5&6	Left Edge 10mm	0.050	0.080	0.230	0.074	0.130	0.354
	Level 5&6	Right Edge 10mm	0.015	0.010	0.008	0.003	0.026	0.027

	Level 5&6	Bottom Edge 10mm	0.132	0.004	0.003	0.001	0.136	0.136
LTE B12	Off	Front Side 10mm	0.160	0.118	0.116	0.094	0.278	0.370
	Off	Back Side 10mm	0.253	0.135	0.275	0.100	0.388	0.628
	Off	Left Edge 10mm	0.176	0.080	0.230	0.074	0.256	0.480
	Off	Right Edge 10mm	0.242	0.010	0.008	0.003	0.252	0.253
	Off	Bottom Edge 10mm	0.111	0.004	0.003	0.001	0.115	0.116
LTE B26	Level 5&6	Front Side 10mm	0.180	0.118	0.116	0.094	0.298	0.391
	Level 5&6	Back Side 10mm	0.236	0.135	0.275	0.100	0.371	0.612
	Level 5&6	Left Edge 10mm	0.128	0.080	0.230	0.074	0.208	0.432
	Level 5&6	Right Edge 10mm	0.228	0.010	0.008	0.003	0.238	0.239
	Level 5&6	Bottom Edge 10mm	0.223	0.004	0.003	0.001	0.227	0.227
LTE B66	Level 5&6	Front Side 10mm	0.187	0.118	0.116	0.094	0.305	0.397
	Level 5&6	Back Side 10mm	0.307	0.135	0.275	0.100	0.442	0.682
	Level 5&6	Left Edge 10mm	0.069	0.080	0.230	0.074	0.149	0.373
	Level 5&6	Right Edge 10mm	0.036	0.010	0.008	0.003	0.046	0.047
	Level 5&6	Bottom Edge 10mm	0.480	0.004	0.003	0.001	0.484	0.484
LTE B38	Level 5&6	Front Side 10mm	0.149	0.118	0.116	0.094	0.267	0.360
	Level 5&6	Back Side 10mm	0.269	0.135	0.275	0.100	0.404	0.644
	Level 5&6	Left Edge 10mm	0.096	0.080	0.230	0.074	0.177	0.400
	Level 5&6	Right Edge 10mm	0.023	0.010	0.008	0.003	0.034	0.034
	Level 5&6	Bottom Edge 10mm	0.187	0.004	0.003	0.001	0.191	0.192
LTE B41	Level 5&6	Front Side 10mm	0.129	0.118	0.116	0.094	0.247	0.339
	Level 5&6	Back Side 10mm	0.217	0.135	0.275	0.100	0.352	0.592
	Level 5&6	Left Edge 10mm	0.075	0.080	0.230	0.074	0.155	0.379
	Level 5&6	Right Edge 10mm	0.020	0.010	0.008	0.003	0.030	0.031
	Level 5&6	Bottom Edge 10mm	0.139	0.004	0.003	0.001	0.143	0.143

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 0.872 W/Kg < 1.6 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: 1201	2020/11/11	2023/11/10
835MHz Validation Dipole	Speag	D835V2	SN: 4d187	2021/05/17	2024/05/16
1750MHz Validation Dipole	Speag	D1750V2	SN: 1130	2021/05/17	2024/05/16
1900MHz Validation Dipole	Speag	D1900V2	SN: 5d193	2021/05/20	2024/05/19
2450MHz Validation Dipole	Speag	D2450V2	SN: 952	2021/05/19	2024/05/18
2600MHz Validation Dipole	Speag	D2600V2	SN: 1095	2021/05/19	2024/05/18
5GHz Validation Dipole	Speag	D5GHzV2	SN: 1200	2021/05/18	2024/05/17
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	DAE4	SN: 1454	2020/11/06	2021/11/05
Data Acquisition Electronics	Speag	DAE4	SN: 878	2020/09/30	2021/09/29
Signal Generator	R&S	SMB100A	182396	2020/12/21	2021/12/20
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	Anritsu	MT8820C	6201502974	2021/03/16	2022/03/15
Wireless Communication Test Set	Anritsu	MT8820C	6201502991	2021/03/16	2022/03/15
Network Analyzer	Agilent	E5071B	MY42404001	2021/04/01	2022/03/31
Thermometer	Elitech	RC-4HC	EF720B004820	2020/12/24	2021/12/23
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	Liquid Type	Fre. (MHz)	Temp. (°C)	Meas. Conductivity (σ) (S/m)	Meas. Permittivity (ϵ)	Target Conductivity (σ) (S/m)	Target Permittivity (ϵ)	Conductivity Tolerance (%)	Permittivity Tolerance (%)
2021.06.10	DASY4	Head	750	21.6	0.87	41.94	0.89	41.94	-2.25	0.00
2021.06.09	DASY4	Head	835	21.8	0.90	41.71	0.90	41.50	0.00	0.51
2021.06.08	DASY4	Head	835	21.5	0.89	40.24	0.90	41.50	-1.11	-3.04
2021.06.07	DASY4	Head	835	21.9	0.87	42.22	0.90	41.50	-3.33	1.73
2021.06.12	DASY4	Head	835	21.1	0.88	41.85	0.90	41.50	-2.22	0.84
2021.06.13	DASY4	Head	835	21.4	0.91	42.48	0.90	41.50	1.11	2.36
2021.06.04	DASY4	Head	1750	21.2	1.37	38.93	1.37	40.08	0.00	-2.87
2021.06.14	DASY4	Head	1750	21.2	1.38	39.43	1.37	40.08	0.73	-1.62
2021.06.15	DASY4	Head	1750	21.6	1.40	38.85	1.37	40.08	2.19	-3.07
2021.06.02	DASY4	Head	1900	21.7	1.37	38.93	1.40	40.00	-2.14	-2.68
2021.06.03	DASY4	Head	1900	21.9	1.41	40.37	1.40	40.00	0.71	0.92
2021.06.16	DASY4	Head	1900	21.3	1.38	40.48	1.40	40.00	-1.43	1.20
2021.06.03	DASY5	Head	2450	21.3	1.74	38.62	1.80	39.20	-3.33	-1.48
2021.06.05	DASY4	Head	2600	21.7	1.90	40.19	1.96	39.01	-3.06	3.02
2021.06.06	DASY4	Head	2600	21.5	1.96	38.15	1.96	39.01	0.00	-2.20
2021.06.17	DASY4	Head	2600	21.3	1.94	38.52	1.96	39.01	-1.02	-1.26
2021.06.18	DASY4	Head	2600	21.1	1.97	39.18	1.96	39.01	0.51	0.44
2021.06.05	DASY5	Head	5250	22.0	4.69	36.54	4.71	35.93	-0.42	1.70
2021.06.11	DASY5	Head	5250	21.1	4.79	35.38	4.71	35.93	1.70	-1.53
2021.06.13	DASY5	Head	5600	21.7	5.11	36.19	5.07	35.53	0.79	1.86
2021.06.07	DASY5	Head	5750	21.3	5.34	34.71	5.22	35.36	2.30	-1.84

Note: The tolerance limit of Conductivity and Permittivity is $\pm 5\%$.

ANNEX B SYSTEM CHECK RESULT

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

Head liquid 1g

Date	Test System	Liquid Type	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)
2021.06.10	DASY4	Head	750	100	0.834	8.34	8.29	0.60
2021.06.09	DASY4	Head	835	100	0.928	9.28	9.76	-4.92
2021.06.08	DASY4	Head	835	100	0.972	9.72	9.76	-0.41
2021.06.07	DASY4	Head	835	100	0.953	9.53	9.76	-2.36
2021.06.12	DASY4	Head	835	100	0.945	9.45	9.76	-3.18
2021.06.13	DASY4	Head	835	100	0.938	9.38	9.76	-3.89
2021.06.04	DASY4	Head	1750	100	3.690	36.90	36.70	0.54
2021.06.14	DASY4	Head	1750	100	3.510	35.10	36.70	-4.36
2021.06.15	DASY4	Head	1750	100	3.740	37.40	36.70	1.91
2021.06.02	DASY4	Head	1900	100	3.950	39.50	40.30	-1.99
2021.06.03	DASY4	Head	1900	100	3.920	39.20	40.30	-2.73
2021.06.16	DASY4	Head	1900	100	4.080	40.80	40.30	1.24
2021.06.03	DASY5	Head	2450	100	5.360	53.60	53.00	1.13
2021.06.05	DASY4	Head	2600	100	5.580	55.80	56.80	-1.76
2021.06.06	DASY4	Head	2600	100	5.530	55.30	56.80	-2.64
2021.06.17	DASY4	Head	2600	100	5.460	54.60	56.80	-3.87
2021.06.18	DASY4	Head	2600	100	5.680	56.80	56.80	0.00
2021.06.05	DASY5	Head	5250	100	7.340	73.40	77.80	-5.66
2021.06.11	DASY5	Head	5250	100	7.430	74.30	77.80	-4.50
2021.06.13	DASY5	Head	5600	100	7.860	78.60	81.20	-3.20
2021.06.07	DASY5	Head	5750	100	7.980	79.80	77.20	3.37

Note: The tolerance limit of System validation $\pm 10\%$.

Head liquid 10g

Date	Test System	Liquid Type	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)
2021.06.05	DASY5	Head	5250	100	2.070	20.70	22.10	-6.33
2021.06.13	DASY5	Head	5600	100	2.230	22.30	23.10	-3.46

Note: The tolerance limit of System validation $\pm 10\%$.

System Performance Check Data (750MHz)

Date: 2021.06.10

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

Medium parameters used: $f = 750$ MHz; $\sigma = 0.873$ S/m; $\epsilon_r = 41.938$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.5 Liquid Temperature: 21.6

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 Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

CW 750 100mW/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.902 W/kg

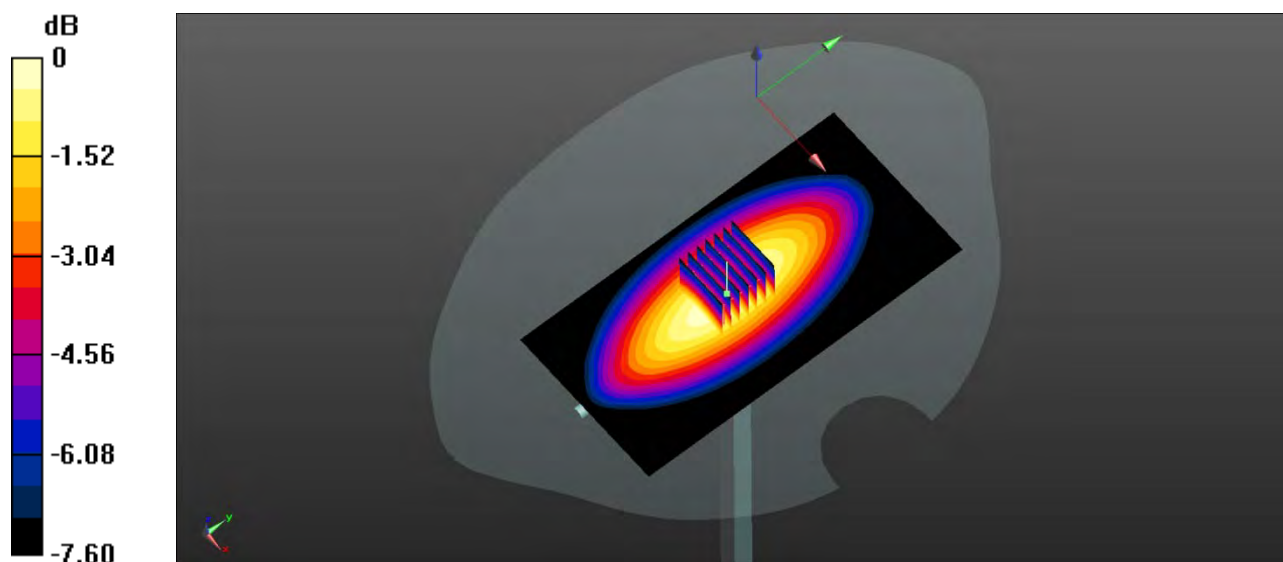
CW 750 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 32.08 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.834 W/kg; SAR(10 g) = 0.555 W/kg

Maximum value of SAR (measured) = 0.912 W/kg



0 dB = 0.912 W/kg

System Performance Check Data (835MHz)

Date: 2021.06.09

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

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.897 \text{ S/m}$; $\epsilon_r = 41.713$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature: 22.6 Liquid Temperature: 21.8

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 Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.974 W/kg

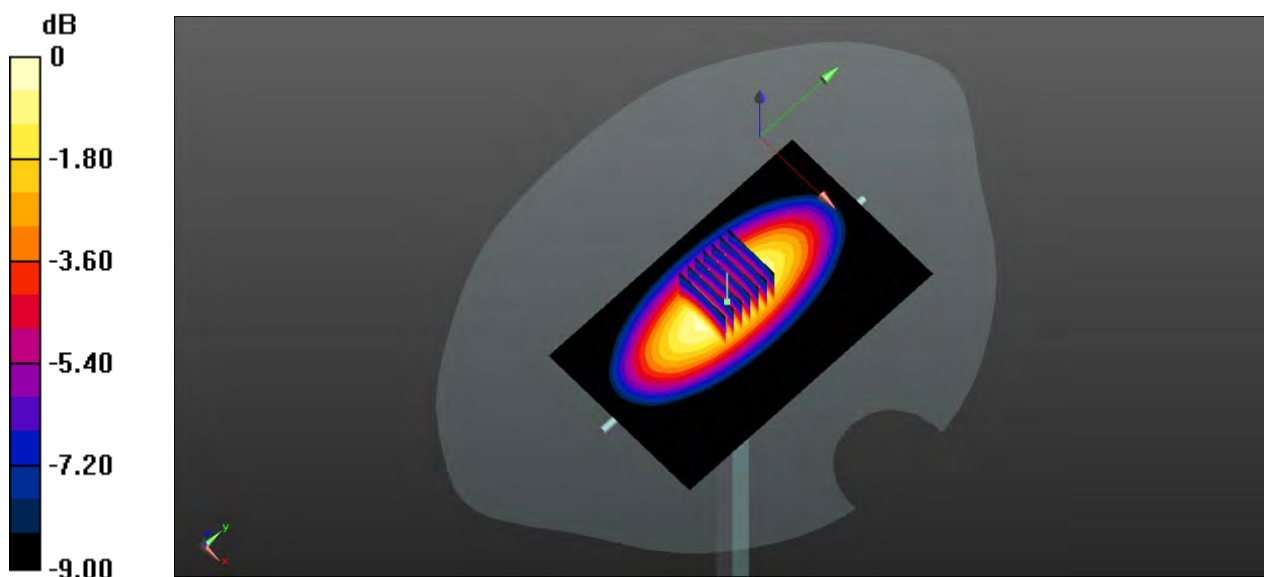
CW 835 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 33.23 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.928 W/kg; SAR(10 g) = 0.625 W/kg

Maximum value of SAR (measured) = 1.12 W/kg



0 dB = 1.12 W/kg

System Performance Check Data (835MHz)

Date: 2021.06.08

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

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.891 \text{ S/m}$; $\epsilon_r = 40.24$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature: 22.3 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 Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 1.14 W/kg

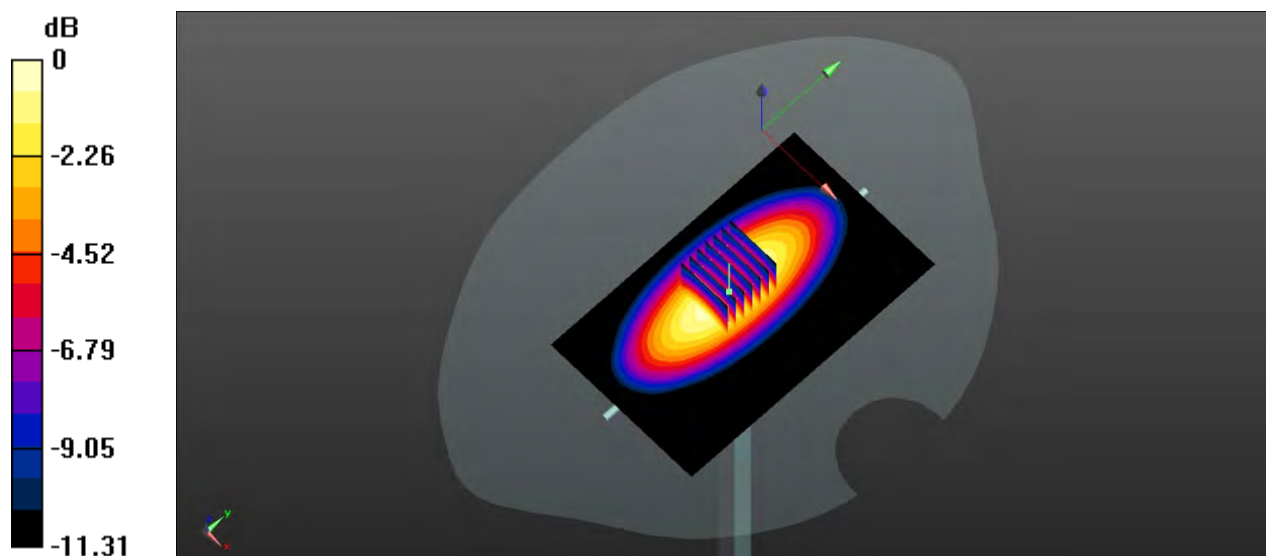
CW 835 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 31.39 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.972 W/kg; SAR(10 g) = 0.621 W/kg

Maximum value of SAR (measured) = 0.875 W/kg



0 dB = 0.875 W/kg

System Performance Check Data (835MHz)

Date: 2021.06.07

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

Medium parameters used: $f = 835$ MHz; $\sigma = 0.869$ S/m; $\epsilon_r = 42.223$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.8 Liquid Temperature: 21.9

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 Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

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

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

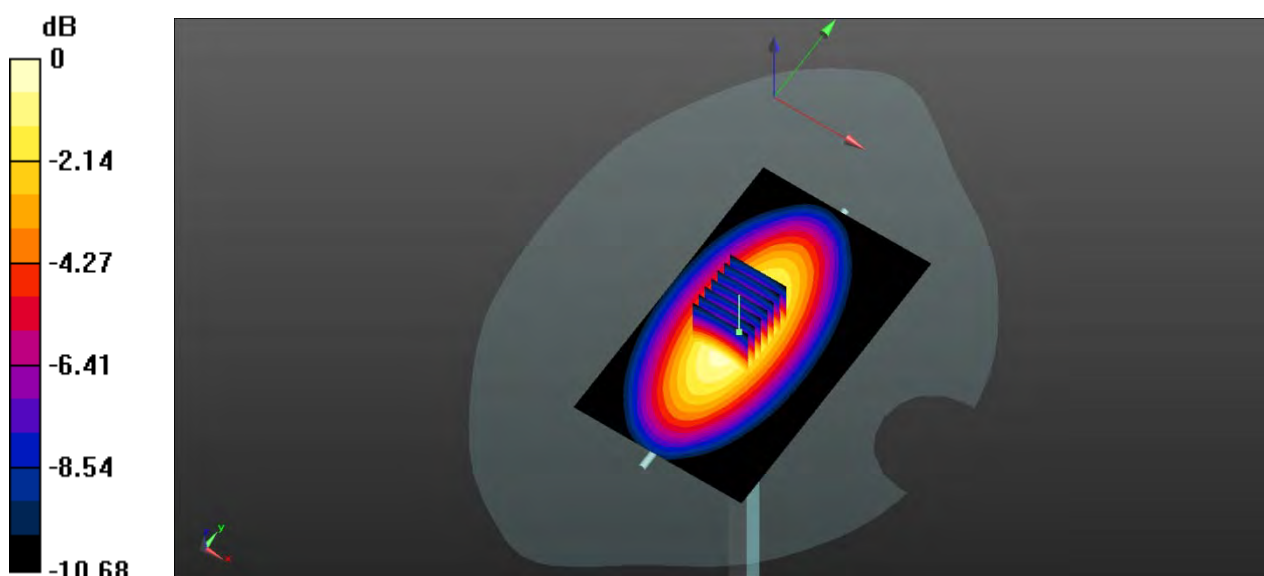
CW 835 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 32.11 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.26W/kg

SAR(1 g) = 0.953 W/kg; SAR(10 g) = 0.618 W/kg

Maximum value of SAR (measured) = 0.957 W/kg



0 dB = 0.957 W/kg

System Performance Check Data (835MHz)

Date: 2021.06.12

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

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.878 \text{ S/m}$; $\epsilon_r = 41.85$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature: 22.3 Liquid Temperature: 21.1

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 Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

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

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

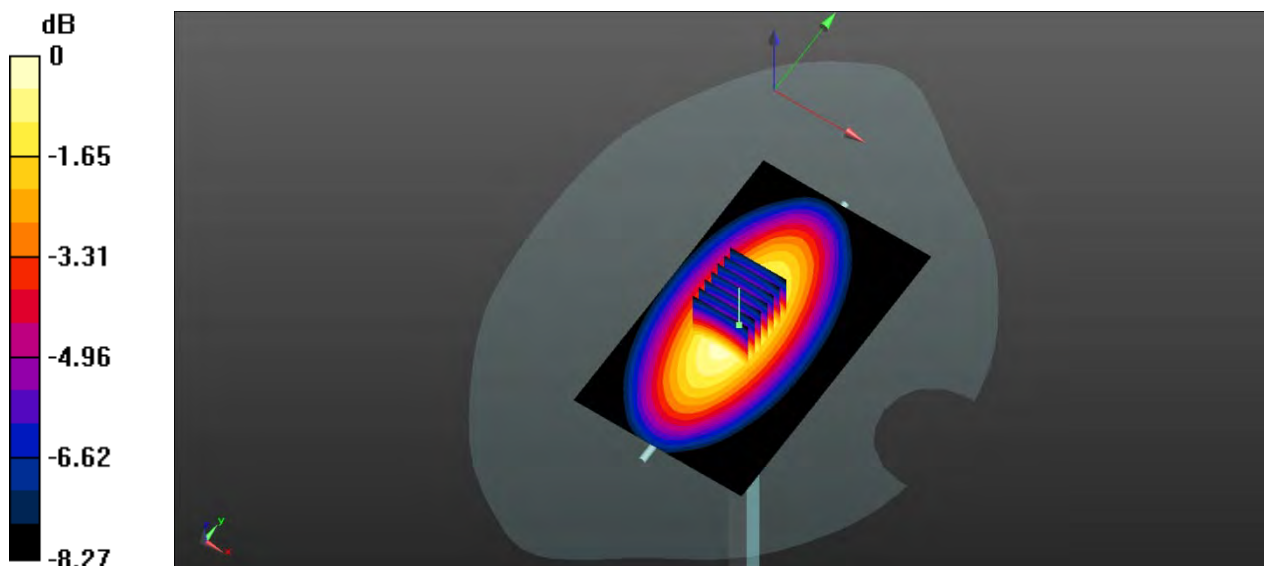
CW 835 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 30.96 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.945 W/kg; SAR(10 g) = 0.608 W/kg

Maximum value of SAR (measured) = 0.941 W/kg



0 dB = 0.941 W/kg

System Performance Check Data (835MHz)

Date: 2021.06.13

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

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.91 \text{ S/m}$; $\epsilon_r = 42.479$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature: 22.5 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 Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

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

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

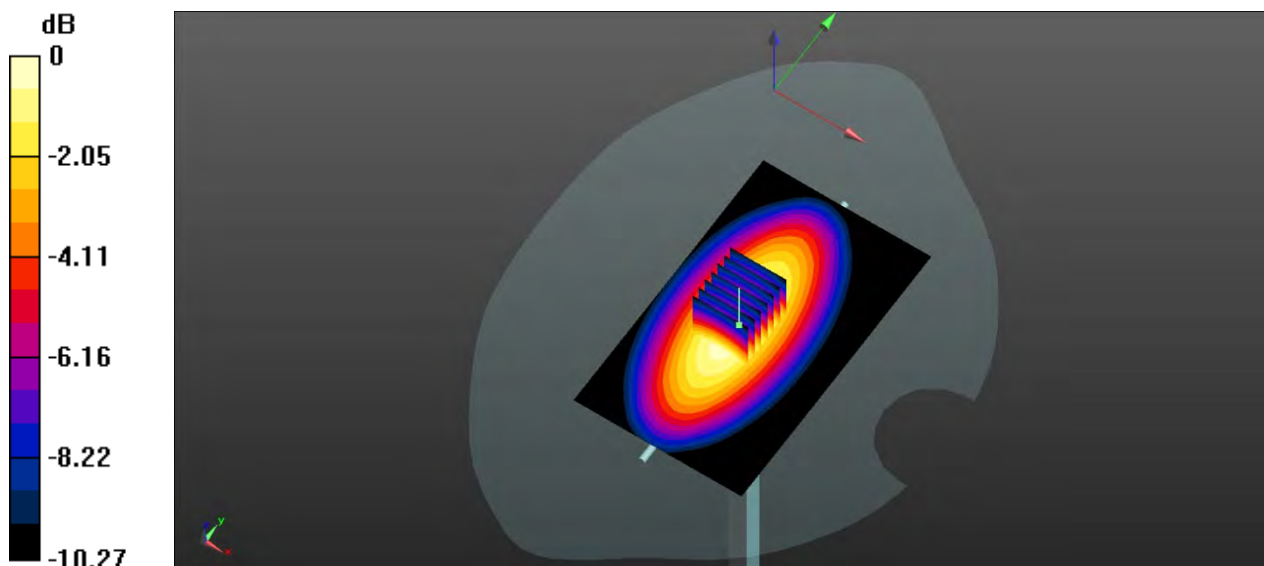
CW 835 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 30.56 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.18 W/kg

SAR(1 g) = 0.938 W/kg; SAR(10 g) = 0.603 W/kg

Maximum value of SAR (measured) = 0.935 W/kg



0 dB = 0.935 W/kg

System Performance Check Data (1750MHz)

Date: 2021.06.04

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

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.365$ S/m; $\epsilon_r = 38.931$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.0 Liquid Temperature: 21.2

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; SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 4.28 W/kg

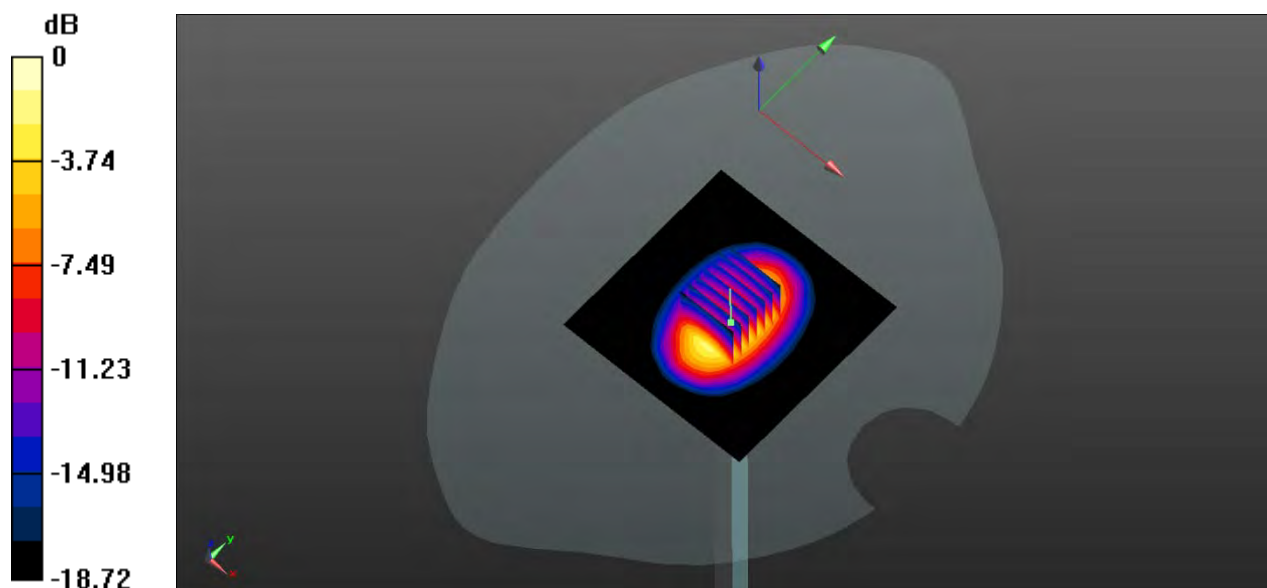
CW 1750 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 38.95 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 7.52 W/kg

SAR(1 g) = 3.69 W/kg; SAR(10 g) = 1.95 W/kg

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



0 dB = 4.08 W/kg

System Performance Check Data (1750MHz)

Date: 2021.06.14

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

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.379$ S/m; $\epsilon_r = 39.43$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.4 Liquid Temperature: 21.2

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; SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 4.14 W/kg

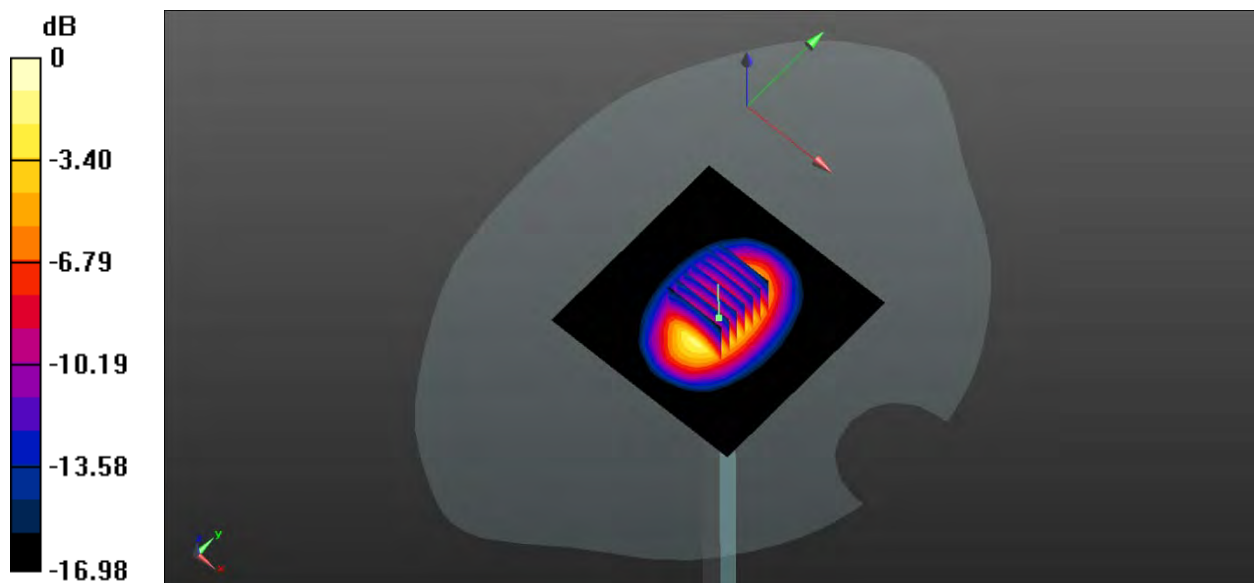
CW 1750 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 38.18 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 7.44 W/kg

SAR(1 g) = 3.51 W/kg; SAR(10 g) = 1.83 W/kg

Maximum value of SAR (measured) = 3.96 W/kg



0 dB = 3.96 W/kg

System Performance Check Data (1750MHz)

Date: 2021.06.15

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

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.398$ S/m; $\epsilon_r = 38.845$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.8 Liquid Temperature: 21.6

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; SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 4.26 W/kg

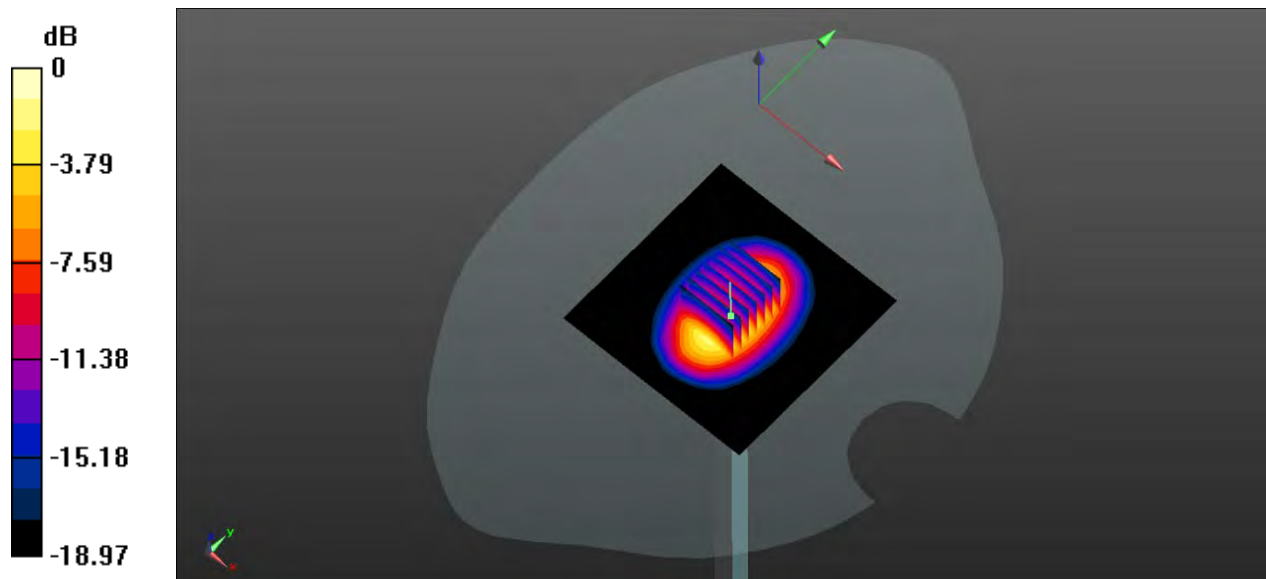
CW 1750 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 38.98 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 7.58 W/kg

SAR(1 g) = 3.74 W/kg; SAR(10 g) = 1.98 W/kg

Maximum value of SAR (measured) = 4.11 W/kg



0 dB = 4.11 W/kg

System Performance Check Data (1900MHz)

Date: 2021.06.02

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.369$ S/m; $\epsilon_r = 38.93$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.6 Liquid Temperature: 21.7

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; SEMCAD X Version 14.6.10 (7331)

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

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

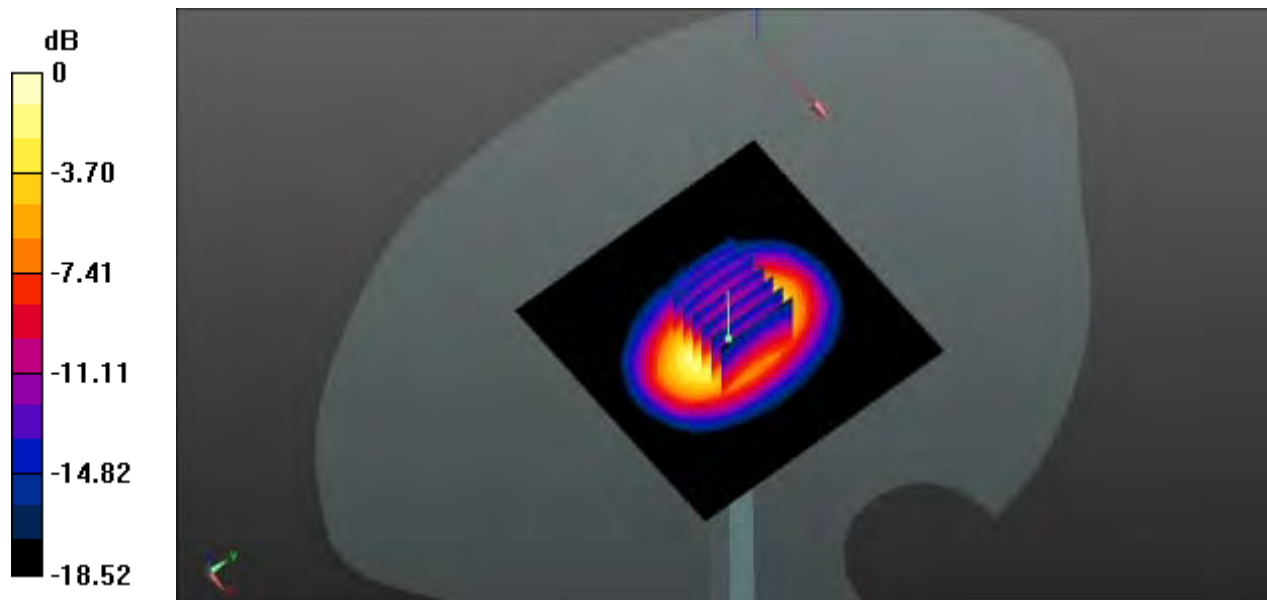
CW 1900 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 55.24 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 7.43 W/kg

SAR(1 g) = 3.95 W/kg; SAR(10 g) = 2.02 W/kg

Maximum value of SAR (measured) = 4.11 W/kg



0 dB = 4.11 W/kg

System Performance Check Data (1900MHz)

Date: 2021.06.03

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.411$ S/m; $\epsilon_r = 40.373$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.8 Liquid Temperature: 21.9

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; SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 4.02 W/kg

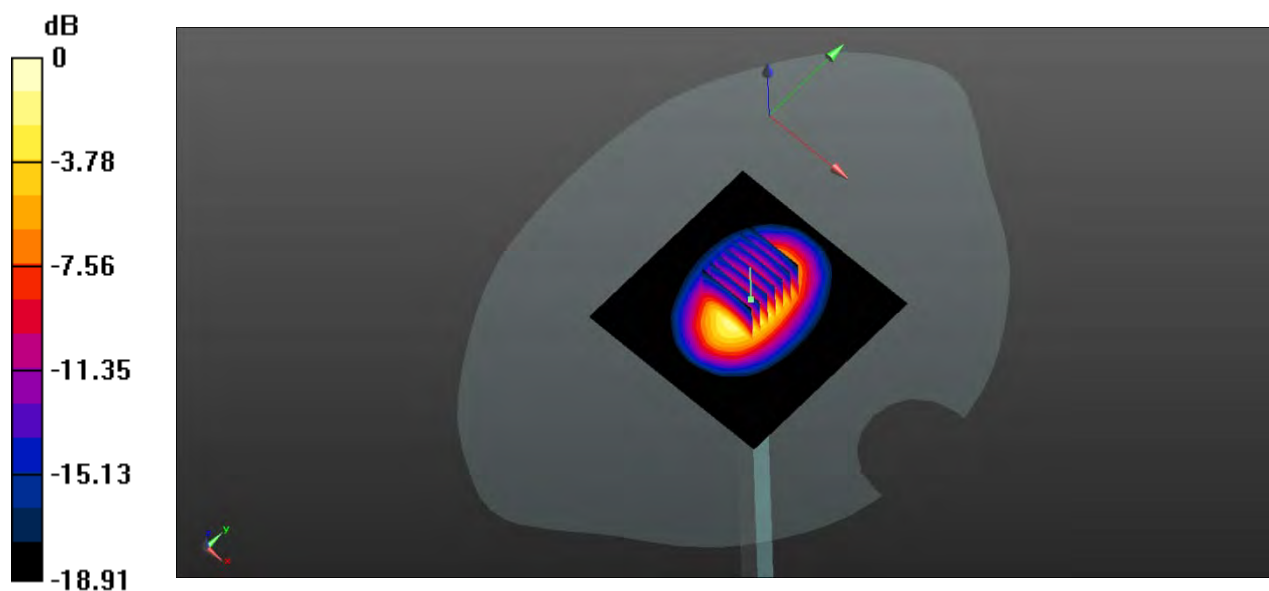
CW 1900 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 54.52 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 7.04 W/kg

SAR(1 g) = 3.92 W/kg; SAR(10 g) = 2.03 W/kg

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



0 dB = 4.04 W/kg

System Performance Check Data (1900MHz)

Date: 2021.06.16

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.376$ S/m; $\epsilon_r = 40.48$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.5 Liquid Temperature: 21.3

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; SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 4.23 W/kg

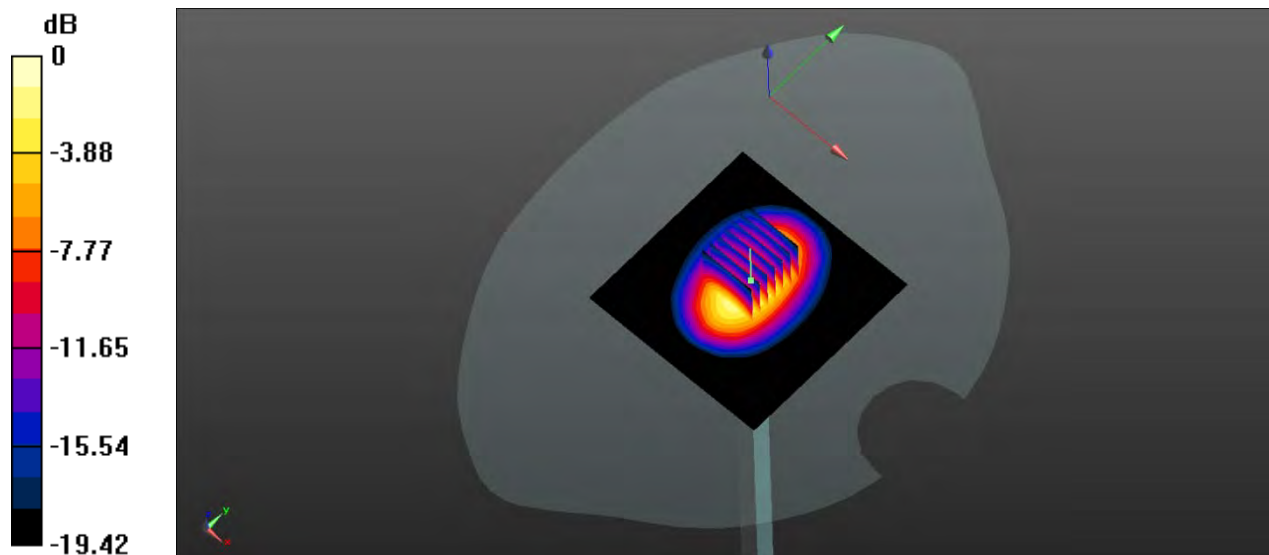
CW 1900 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 54.93 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 7.18 W/kg

SAR(1 g) = 4.08 W/kg; SAR(10 g) = 2.11 W/kg

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



0 dB = 4.15 W/kg

System Performance Check Data (2450MHz)

Date: 2021.06.03

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

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.742$ S/m; $\epsilon_r = 38.623$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.2 Liquid Temperature: 21.3

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 on left 1859; Type: QD000P40CC; Serial: TP:1859
- 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) = 6.38 W/kg

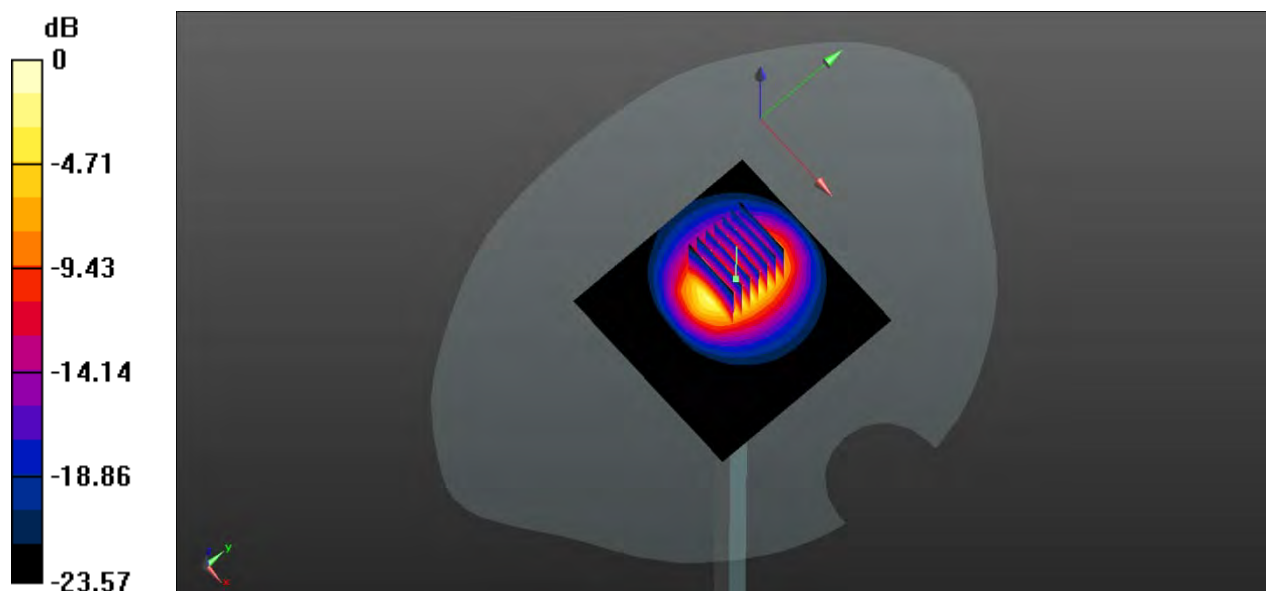
CW 2450 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 34.15 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 10.3 W/kg

SAR(1 g) = 5.36 W/kg; SAR(10 g) = 2.54 W/kg

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



0 dB = 6.15 W/kg

System Performance Check Data (2600MHz)

Date: 2021.06.05

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

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.898$ S/m; $\epsilon_r = 40.193$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.5 Liquid Temperature: 21.7

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.5, 7.5, 7.5); 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; 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) = 6.42 W/kg

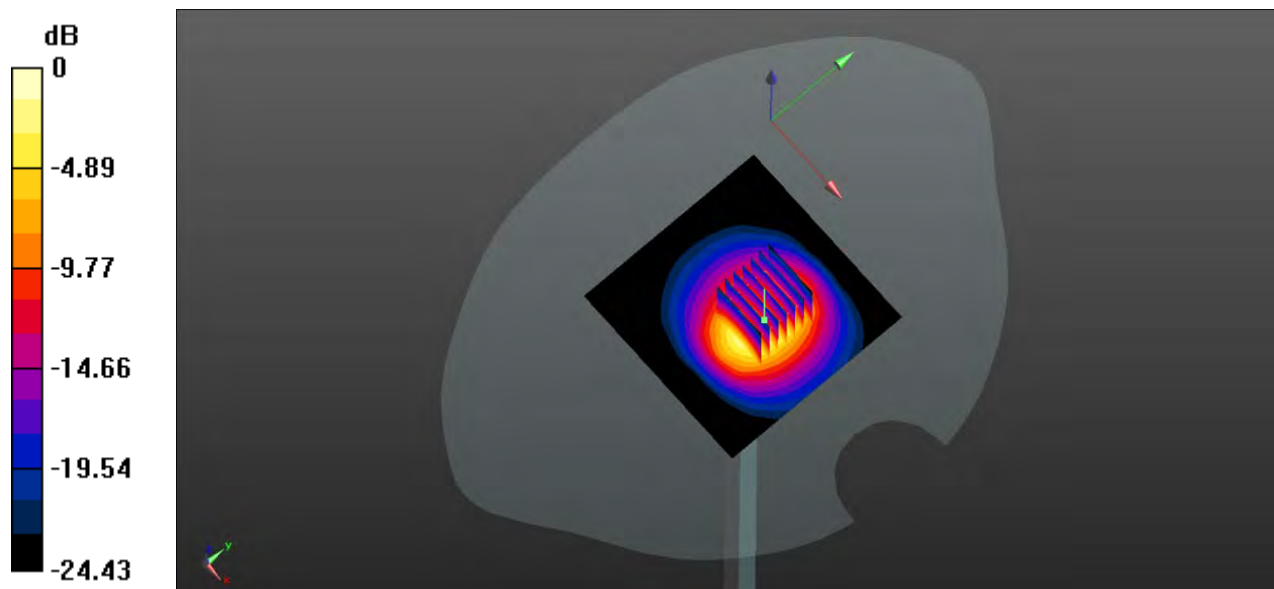
CW 2600 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 34.11 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 12.1 W/kg

SAR(1 g) = 5.58 W/kg; SAR(10 g) = 2.49 W/kg

Maximum value of SAR (measured) = 5.78 W/kg



0 dB = 5.78 W/kg

System Performance Check Data (2600MHz)

Date: 2021.06.06

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

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.958$ S/m; $\epsilon_r = 38.154$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3 Liquid Temperature: 21.5

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.5, 7.5, 7.5); 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; 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) = 6.11 W/kg

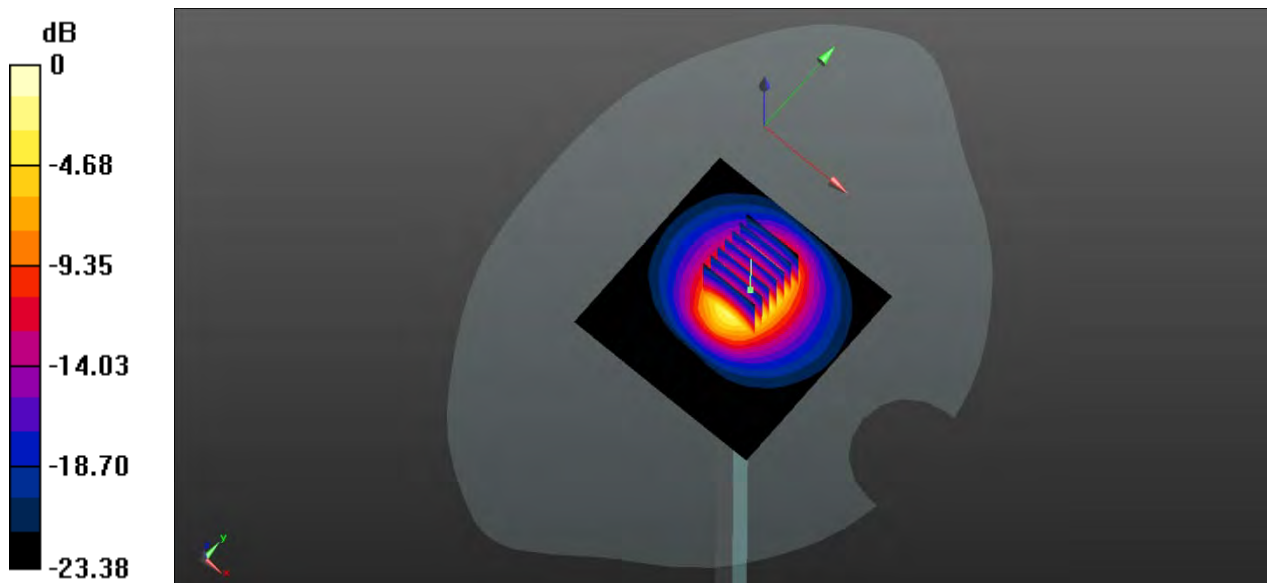
CW 2600 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 48.11 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 12.1 W/kg

SAR(1 g) = 5.53 W/kg; SAR(10 g) = 2.43 W/kg

Maximum value of SAR (measured) = 6.21 W/kg



0 dB = 6.21 W/kg

System Performance Check Data (2600MHz)

Date: 2021.06.17

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

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.943$ S/m; $\epsilon_r = 38.518$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.6 Liquid Temperature: 21.3

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.5, 7.5, 7.5); 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; 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) = 6.21 W/kg

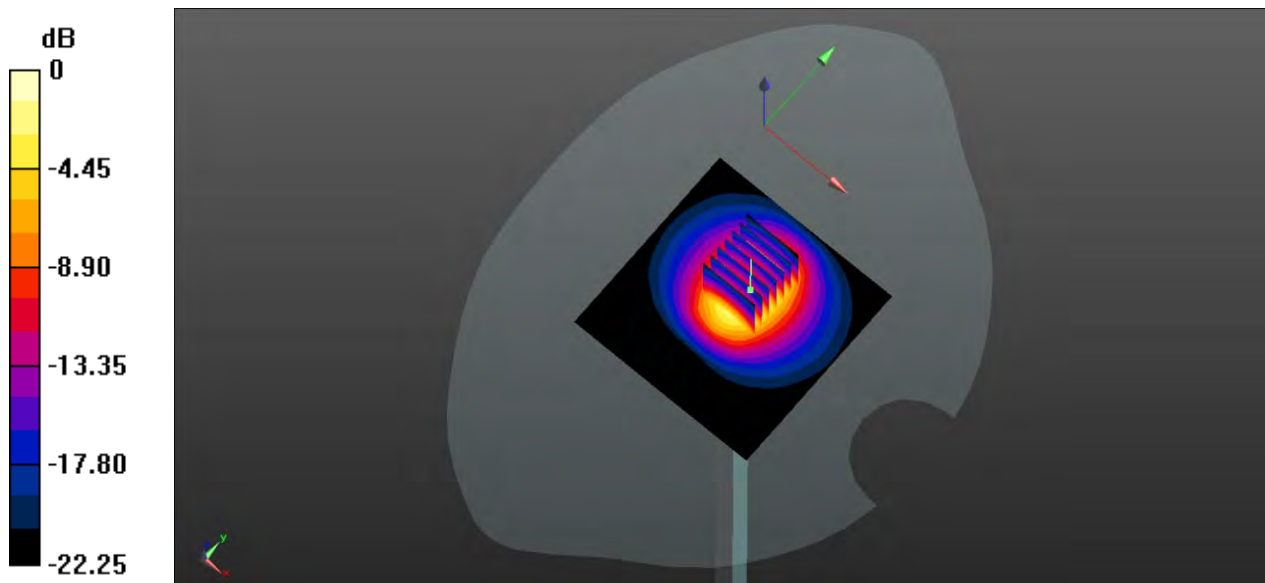
CW 2600 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 48.02 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 12.1 W/kg

SAR(1 g) = 5.46 W/kg; SAR(10 g) = 2.39 W/kg

Maximum value of SAR (measured) = 6.17 W/kg



0 dB = 6.17 W/kg

System Performance Check Data (2600MHz)

Date: 2021.06.18

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

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.967$ S/m; $\epsilon_r = 39.179$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3 Liquid Temperature: 21.1

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.5, 7.5, 7.5); 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; 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) = 6.25 W/kg

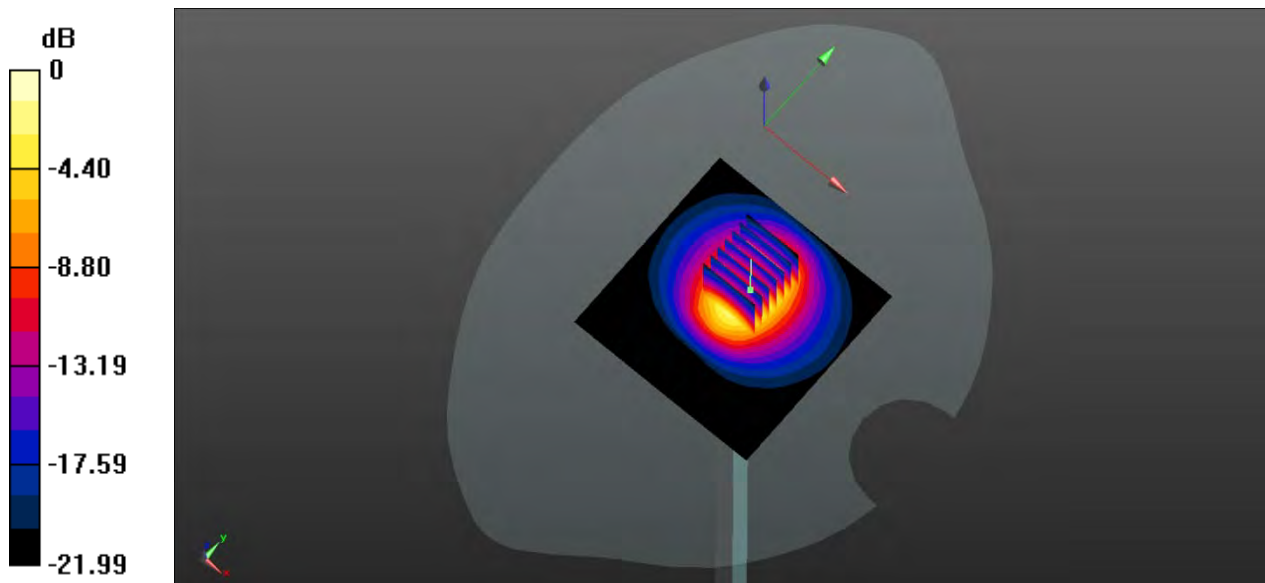
CW 2600 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 48.94 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 12.3 W/kg

SAR(1 g) = 5.68 W/kg; SAR(10 g) = 2.51 W/kg

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



0 dB = 6.28 W/kg

System Performance Check Data (5250MHz)

Date: 2021.06.05

Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5250 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5250$ MHz; $\sigma = 4.693$ S/m; $\epsilon_r = 36.54$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.9 Liquid Temperature: 22.0

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 5250 100mW/Area Scan (81x81x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 8.25 W/kg

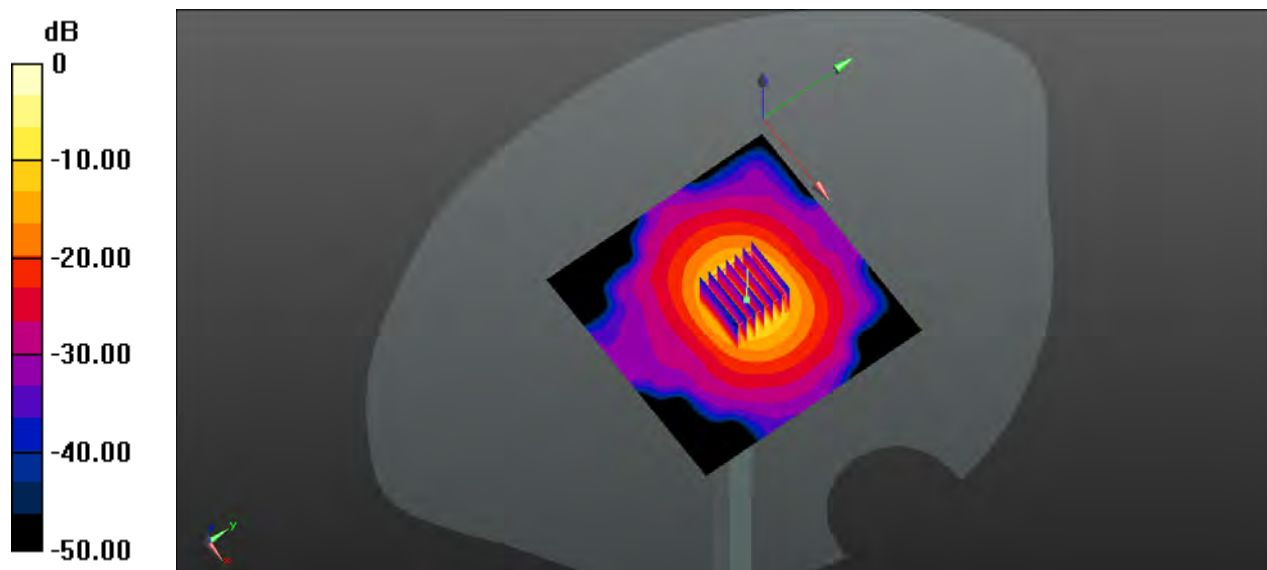
CW 5250 100mW/Zoom Scan (7x7x21)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 38.29 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 41.5 W/kg

SAR(1 g) = 7.34 W/kg; SAR(10 g) = 2.07 W/kg

Maximum value of SAR (measured) = 15.1 W/kg



0 dB = 15.1 W/kg

System Performance Check Data (5250MHz)

Date: 2021.06.11

Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5250 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5250$ MHz; $\sigma = 4.786$ S/m; $\epsilon_r = 35.38$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.4 Liquid Temperature: 21.1

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 5250 100mW/Area Scan (81x81x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 8.31 W/kg

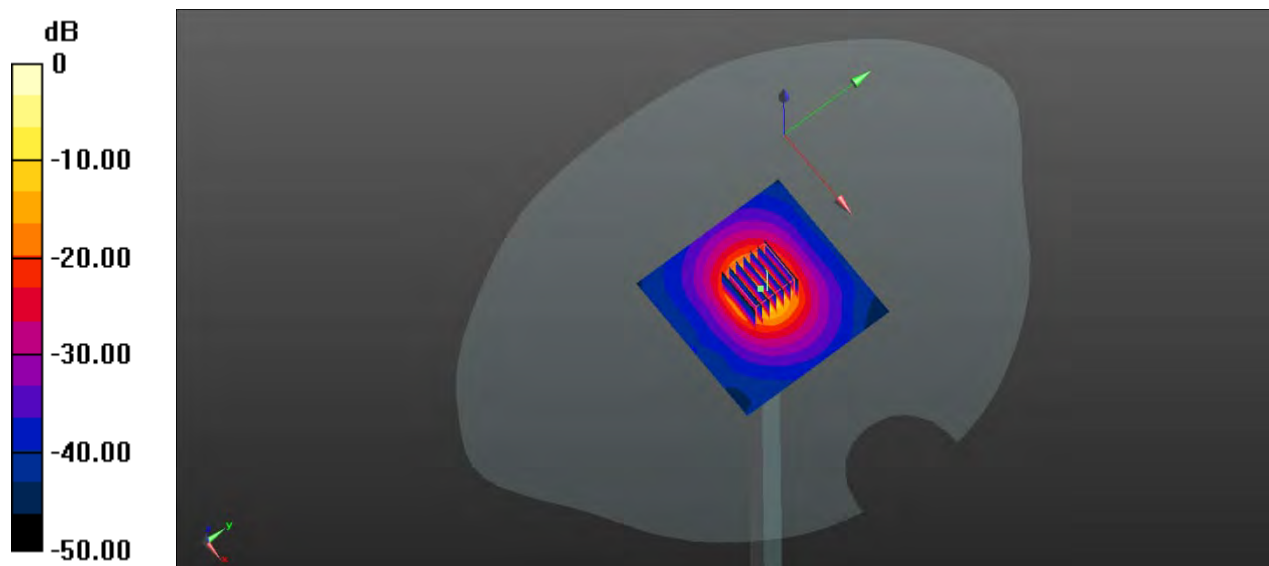
CW 5250 100mW/Zoom Scan (7x7x21)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 38.65 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 41.8 W/kg

SAR(1 g) = 7.43 W/kg; SAR(10 g) = 2.18 W/kg

Maximum value of SAR (measured) = 15.3 W/kg



0 dB = 15.3 W/kg

System Performance Check Data (5600MHz)

Date: 2021.06.13

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

Medium parameters used: $f = 5600$ MHz; $\sigma = 5.11$ S/m; $\epsilon_r = 36.186$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.6 Liquid Temperature: 21.7

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 (101x101x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 8.3 W/kg

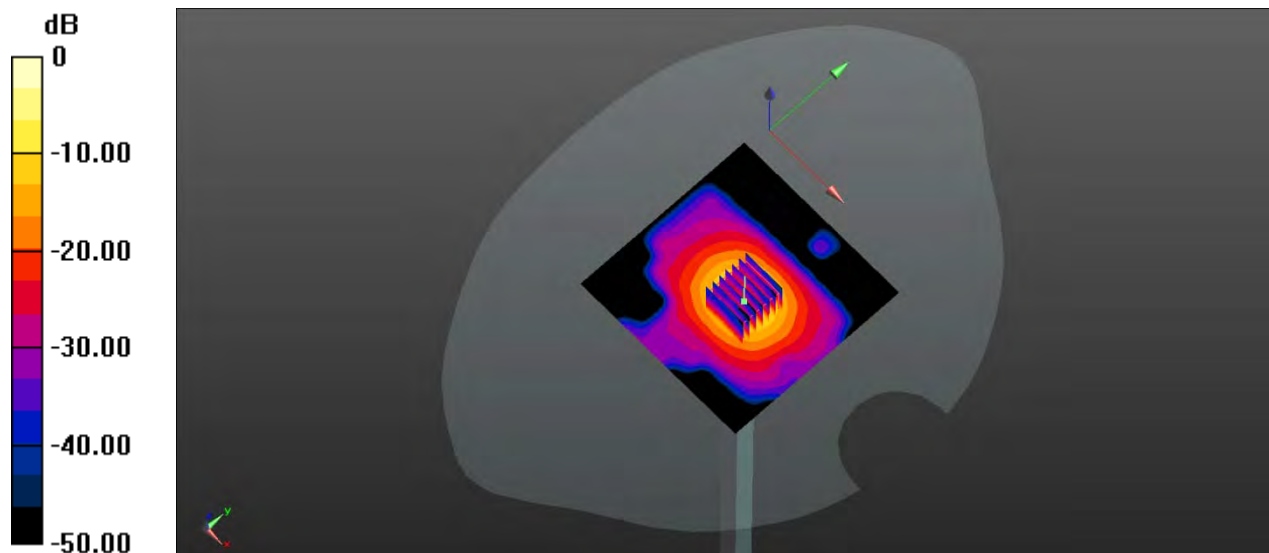
CW 5600 100mW/Zoom Scan (7x7x21)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 34.49 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 37.8 W/kg

SAR(1 g) = 7.86 W/kg; SAR(10 g) = 2.23 W/kg

Maximum value of SAR (measured) = 20.7 W/kg



0 dB = 20.7 W/kg

System Performance Check Data (5750MHz)

Date: 2021.06.07

Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5750$ MHz; $\sigma = 5.341$ S/m; $\epsilon_r = 34.713$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.5 Liquid Temperature: 21.3

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)

CW 5750 100mW/Area Scan (81x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 8.57 W/kg

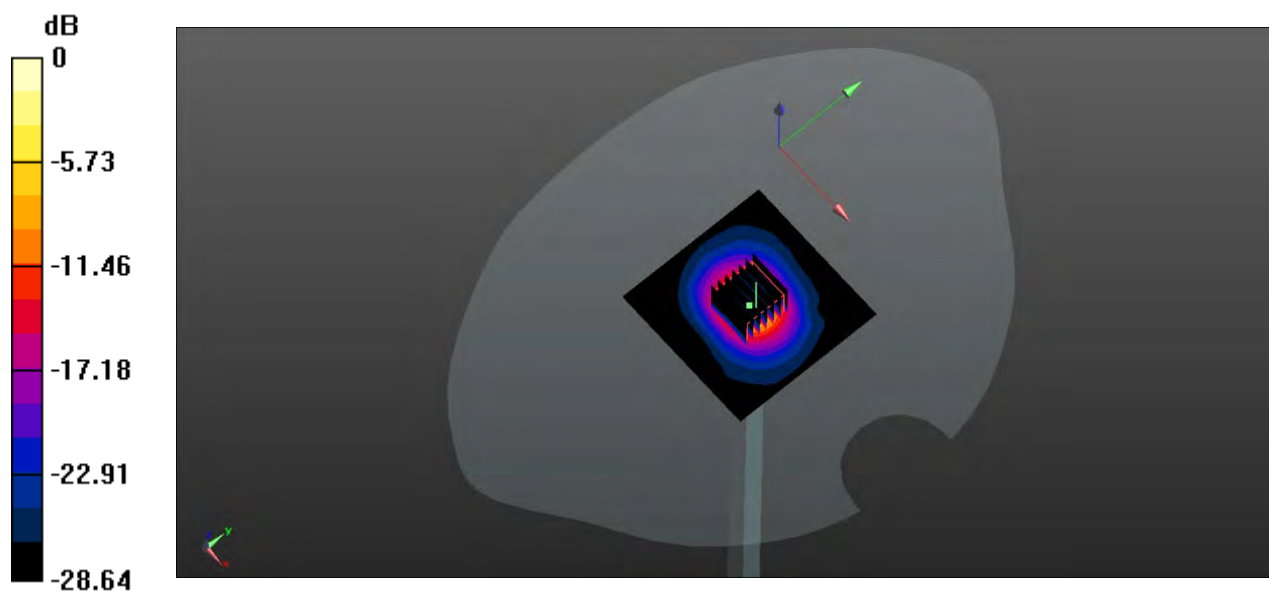
CW 5750 100mW/Zoom Scan (7x7x21)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 40.05 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 39.1 W/kg

SAR(1 g) = 7.98 W/kg; SAR(10 g) = 2.12 W/kg

Maximum value of SAR (measured) = 14.6 W/kg



0 dB = 14.6 W/kg

ANNEX C TEST DATA

1-Right Head with Cheek on Middle Channel in GPRS850 4Slots Mode with Antenna Up

Date: 2021.06.09

Communication System Band: GPRS 850; Frequency: 836.6 MHz; Duty Cycle: 1:2.08

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.903$ S/m; $\epsilon_r = 41.637$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature:22.6 Liquid Temperature:21.8

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 Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.589 W/kg

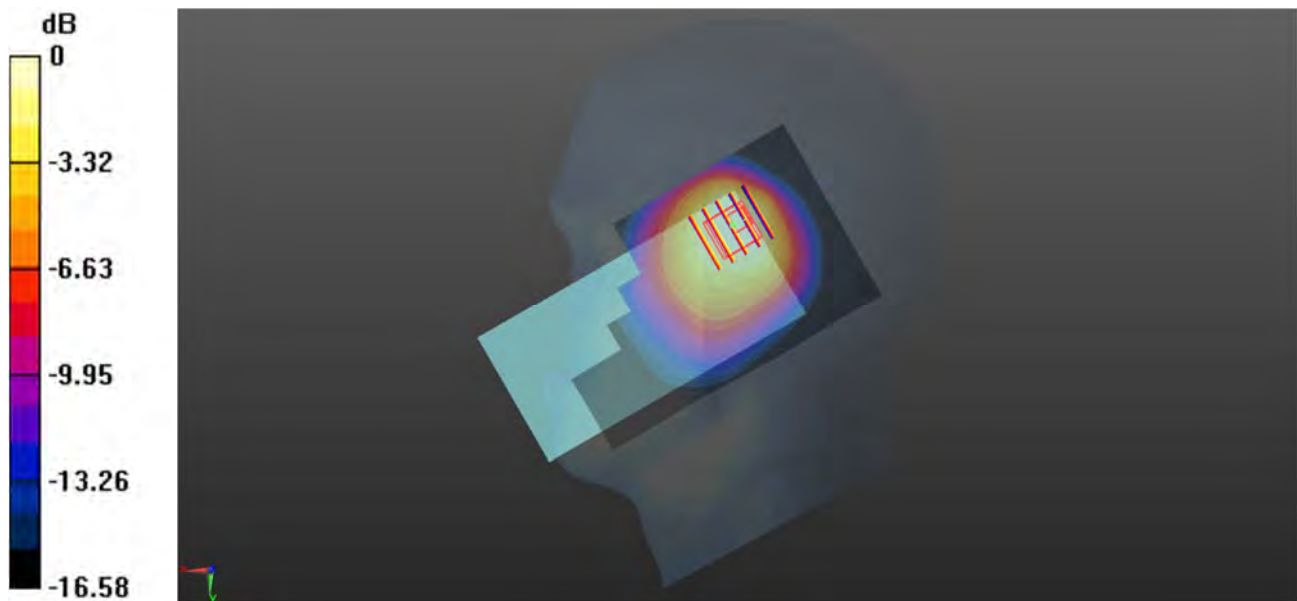
Ch190/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.33 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.847 W/kg

SAR(1 g) = 0.533 W/kg; SAR(10 g) = 0.324 W/kg

Maximum value of SAR (measured) = 0.557 W/kg



0 dB = 0.557 W/kg

2-Body Plane with Back Side 15mm on Middle Channel in GPRS850 4slots Mode with Antenna Down

Date: 2021.06.09

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

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.903$ S/m; $\epsilon_r = 41.637$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.6 Liquid Temperature: 21.8

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 Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.293 W/kg

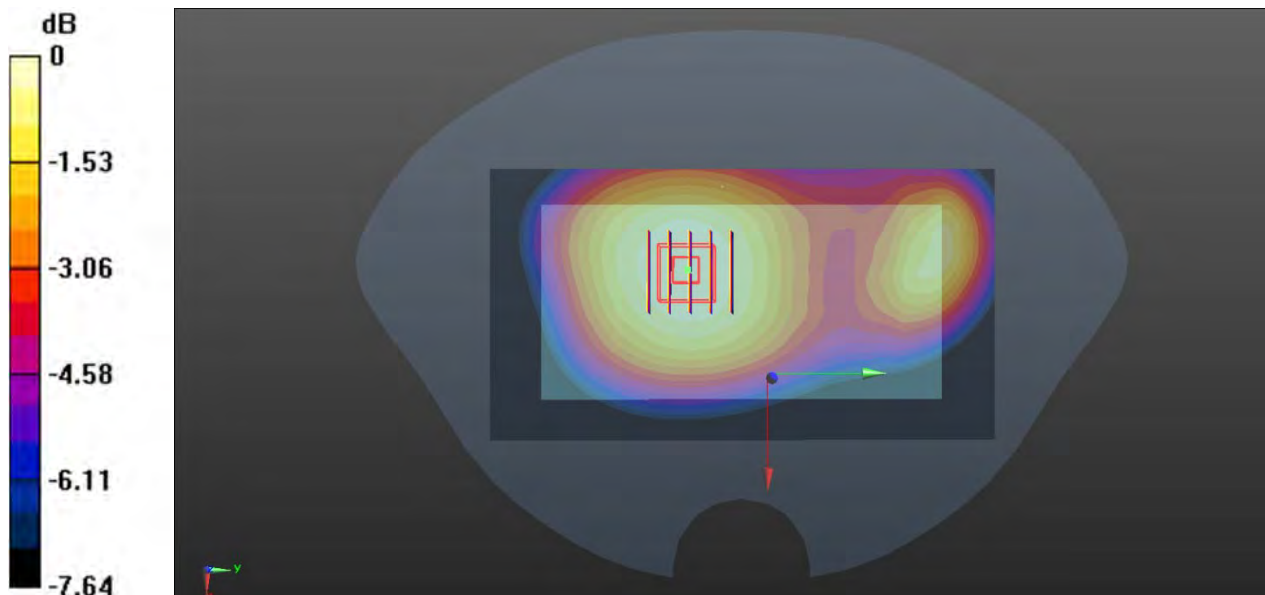
Ch190/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

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

Peak SAR (extrapolated) = 0.311 W/kg

SAR(1 g) = 0.285 W/kg; SAR(10 g) = 0.191 W/kg

Maximum value of SAR (measured) = 0.291 W/kg



0 dB = 0.291 W/kg

3-Body Plane with Back Side 10mm on Middle Channel in GPRS850 4Slots Mode with Antenna Down

Date: 2021.06.09

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

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.903$ S/m; $\epsilon_r = 41.637$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.6 Liquid Temperature: 21.8

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 Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.339 W/kg

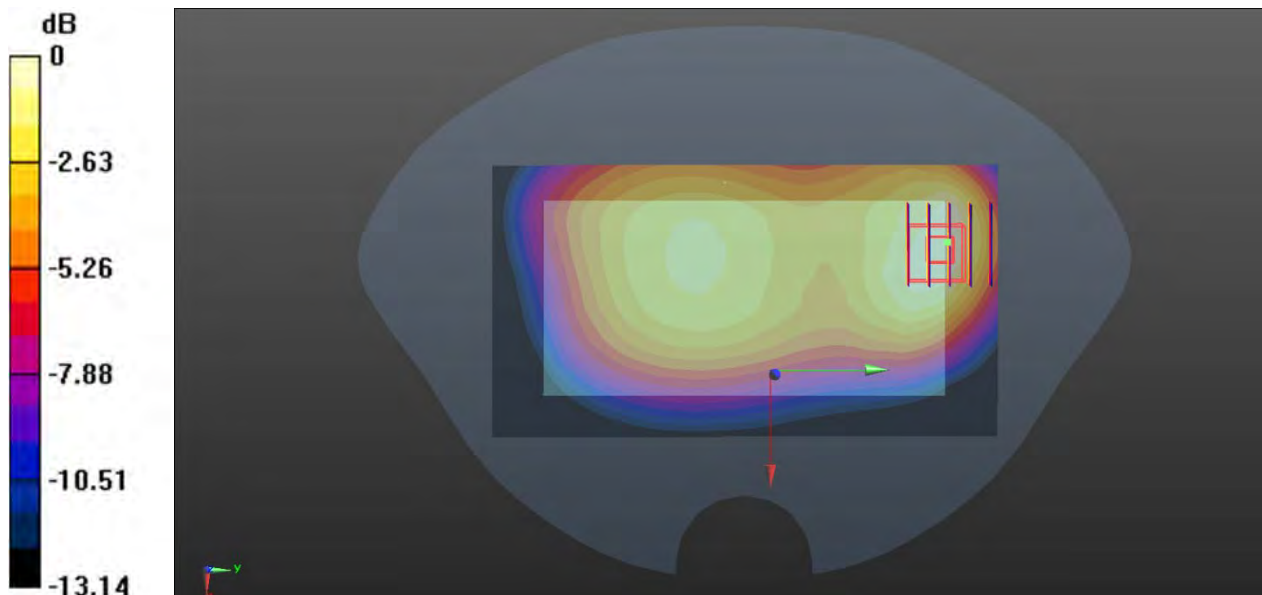
Ch190/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.04 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.454 W/kg

SAR(1 g) = 0.323 W/kg; SAR(10 g) = 0.171 W/kg

Maximum value of SAR (measured) = 0.341 W/kg



0 dB = 0.341 W/kg

4-Right Head with Tilt on High Channel in GPRS1900 3Slots Mode with Antenna Up

Date: 2021.06.02

Communication System Band: GPRS1900; Frequency: 1909.8 MHz; Duty Cycle: 1:2.77

Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.374$ S/m; $\epsilon_r = 38.766$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature: 22.6 Liquid Temperature: 21.7

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; SEMCAD X Version 14.6.10 (7331)

Ch810/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.349 W/kg

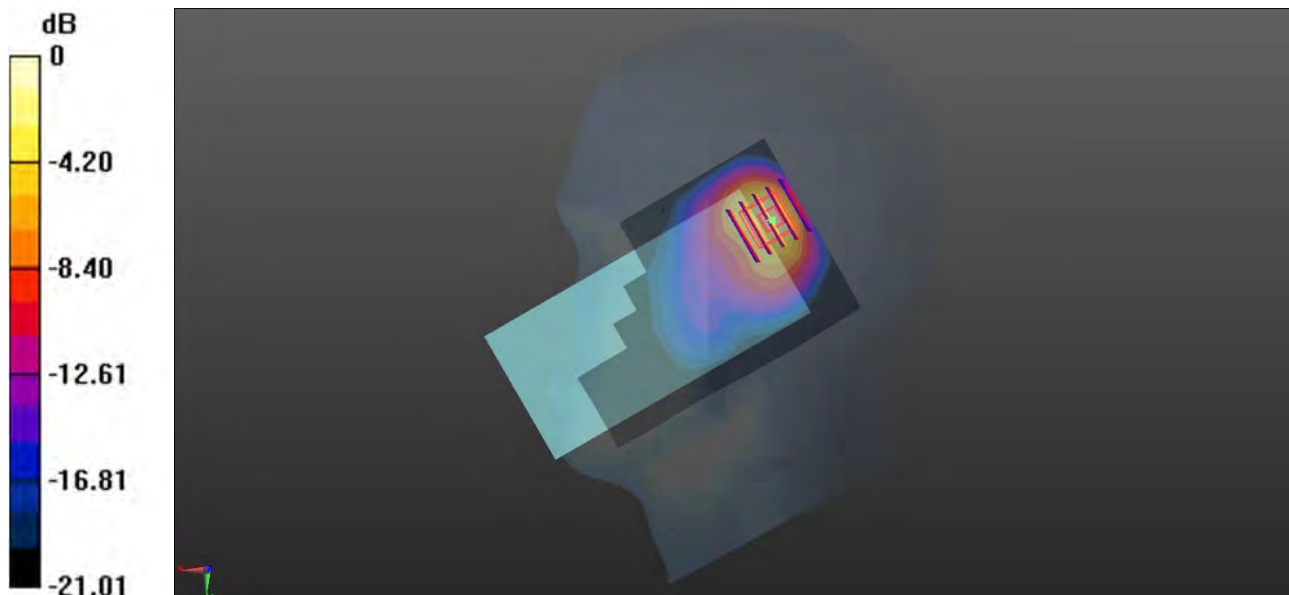
Ch810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.14 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.690 W/kg

SAR(1 g) = 0.322 W/kg; SAR(10 g) = 0.146 W/kg

Maximum value of SAR (measured) = 0.386 W/kg



0 dB = 0.386 W/kg

5-Body Plane with Back Side 15mm on High Channel in GPRS1900 3Slots Mode with Antenna Down

Date: 2021.06.02

Communication System Band: GPRS1900; Frequency: 1909.8 MHz; Duty Cycle: 1:2.77

Medium parameters used (interpolated): $f = 1909.8$ MHz; $\sigma = 1.374$ S/m; $\epsilon_r = 38.766$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.6 Liquid Temperature: 21.7

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; SEMCAD X Version 14.6.10 (7331)

Ch810/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.288 W/kg

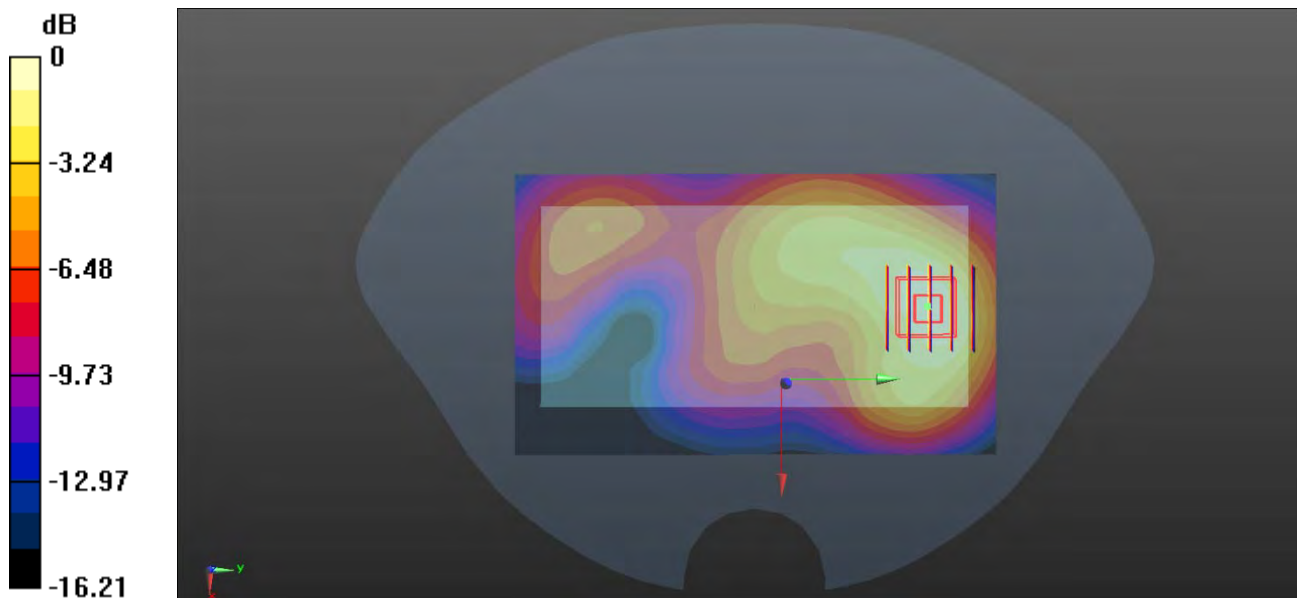
Ch810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.262 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.445 W/kg

SAR(1 g) = 0.276 W/kg; SAR(10 g) = 0.165 W/kg

Maximum value of SAR (measured) = 0.301 W/kg



0 dB = 0.301 W/kg

6-Body Plane with Top Edge 10mm on High Channel in GPRS1900 3Slot Mode with Antenna Up

Date: 2021.06.02

Communication System Band: GPRS1900; Frequency: 1909.8 MHz; Duty Cycle: 1:2.77

Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.374$ S/m; $\epsilon_r = 38.766$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.6 Liquid Temperature: 21.7

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; SEMCAD X Version 14.6.10 (7331)

Ch810/Area Scan (51x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.228 W/kg

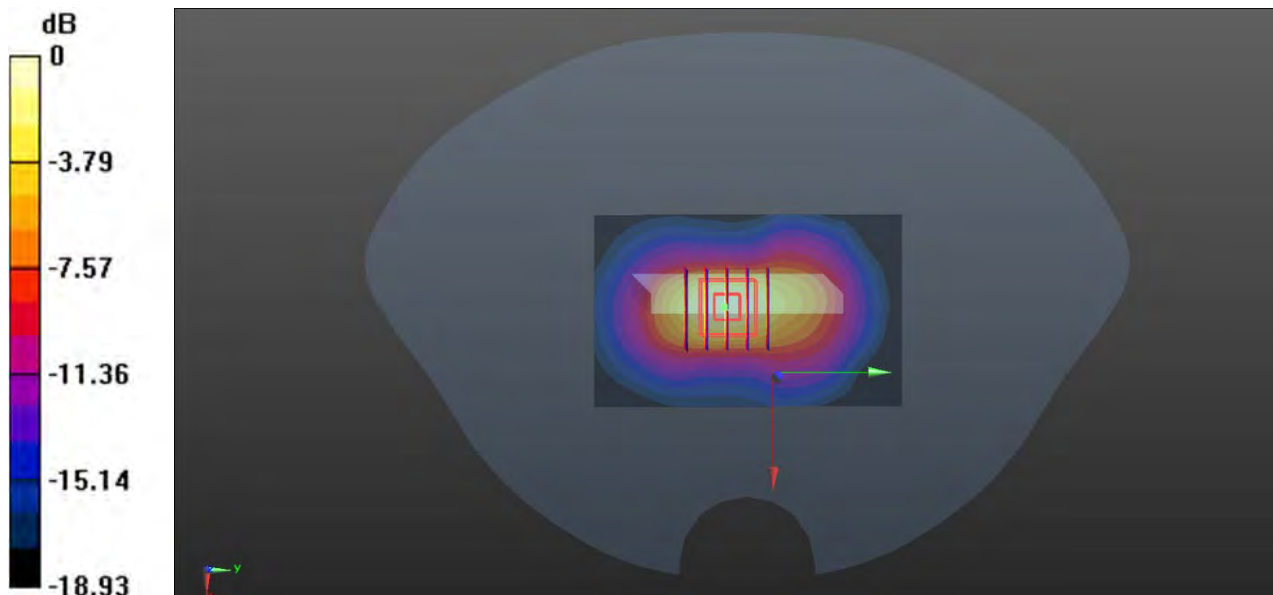
Ch810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.07 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.374 W/kg

SAR(1 g) = 0.223 W/kg; SAR(10 g) = 0.094 W/kg

Maximum value of SAR (measured) = 0.226 W/kg



0 dB = 0.226 W/kg

7-Right Head with Tilt on Low Channel in WCDMA Band2 Mode with Antenna Up

Date: 2021.06.03

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

Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.4$ S/m; $\epsilon_r = 40.556$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature: 22.8 Liquid Temperature: 21.9

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; SEMCAD X Version 14.6.10 (7331)

Ch9262/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.729 W/kg

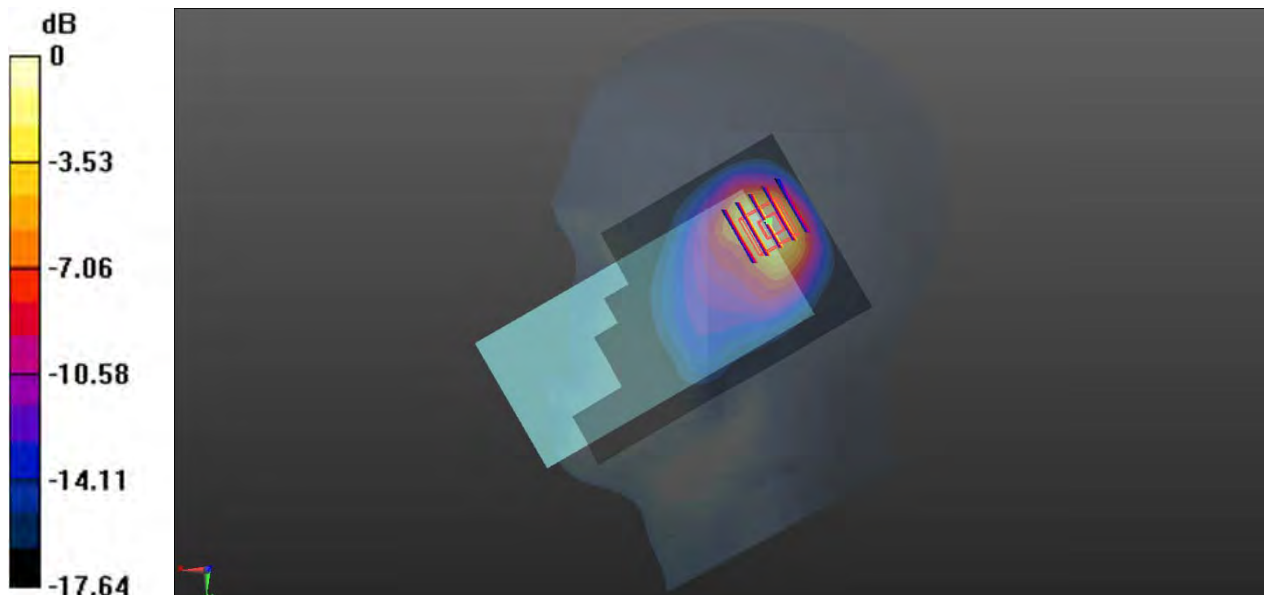
Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.27 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.37 W/kg

SAR(1 g) = 0.663 W/kg; SAR(10 g) = 0.316 W/kg

Maximum value of SAR (measured) = 0.763 W/kg



0 dB = 0.763 W/kg

8-Body Plane with Back Side 15mm on Low Channel in WCDMA Band2 Mode with Antenna Down

Date: 2021.06.03

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

Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.4$ S/m; $\epsilon_r = 40.556$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.8 Liquid Temperature: 21.9

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; SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.229 W/kg

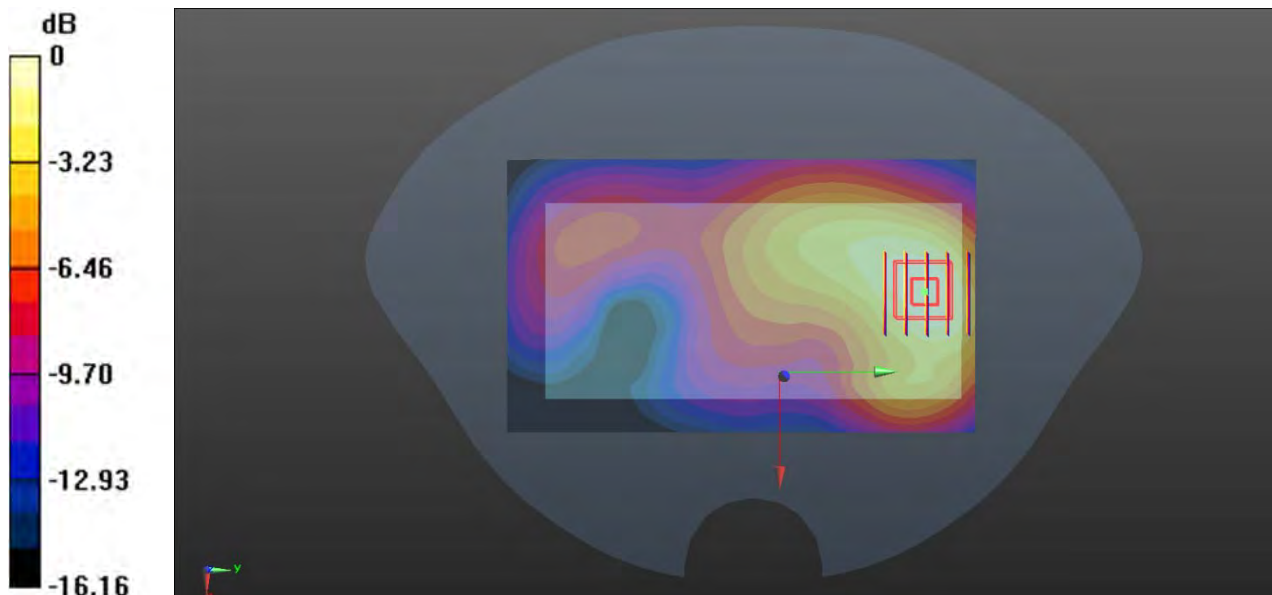
Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.217 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.340 W/kg

SAR(1 g) = 0.213 W/kg; SAR(10 g) = 0.129 W/kg

Maximum value of SAR (measured) = 0.232 W/kg



0 dB = 0.232 W/kg

9-Body Plane with Bottom Edge 10mm on High Channel in WCDMA Band2 Mode with Antenna Down

Date: 2021.06.03

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

Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.4$ S/m; $\epsilon_r = 40.556$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.8 Liquid Temperature: 21.9

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; SEMCAD X Version 14.6.10 (7331)

Ch9262/Area Scan (51x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.614 W/kg

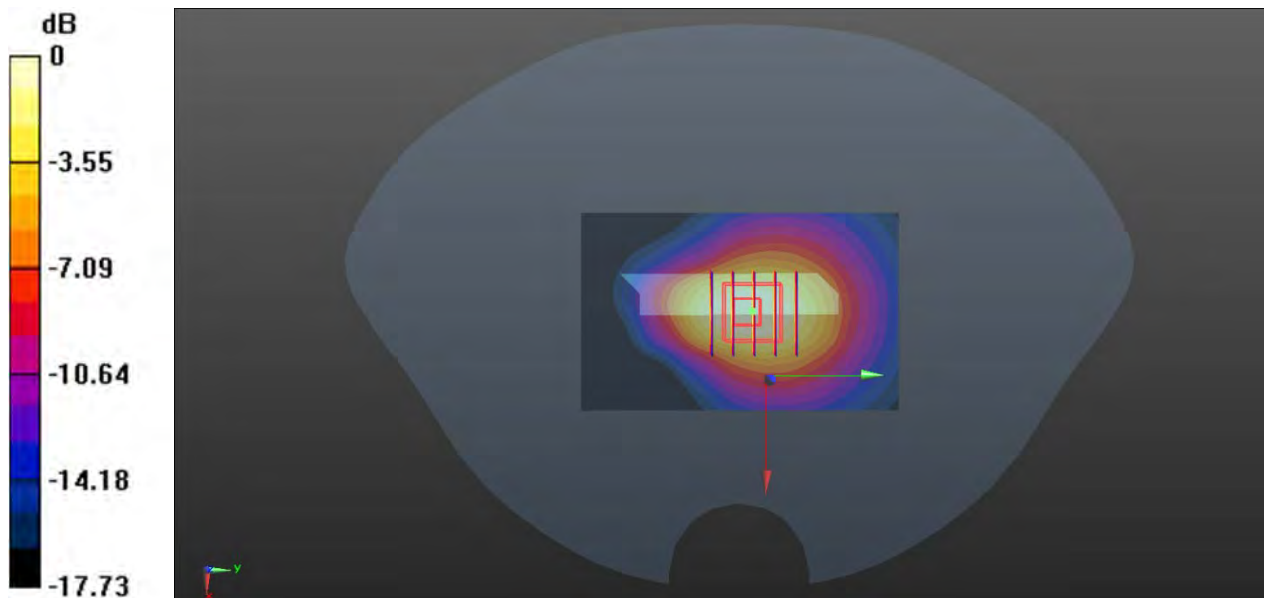
Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.26 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.865 W/kg

SAR(1 g) = 0.503 W/kg; SAR(10 g) = 0.279 W/kg

Maximum value of SAR (measured) = 0.553 W/kg



0 dB = 0.553 W/kg

10-Right Head with Tilt on High Channel in WCDMA Band4 Mode with Antenna Up

Date: 2021.06.04

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

Medium parameters used: $f = 1752.6$ MHz; $\sigma = 1.37$ S/m; $\epsilon_r = 38.92$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature:22.0 Liquid Temperature:21.2

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; SEMCAD X Version 14.6.10 (7331)

Ch1513/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.865 W/kg

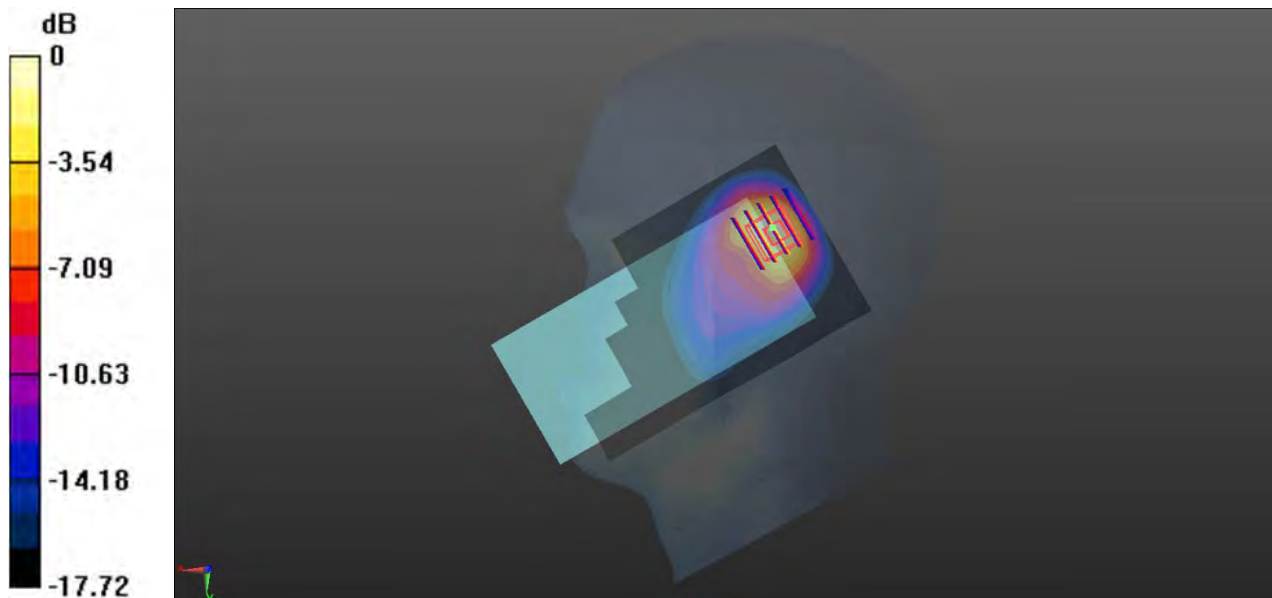
Ch1513/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.15 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.58 W/kg

SAR(1 g) = 0.783 W/kg; SAR(10 g) = 0.378 W/kg

Maximum value of SAR (measured) = 0.906 W/kg



0 dB = 0.906 W/kg

11-Body Plan with Back Side 15mm on High Channel in WCDMA Band4 Mode with Antenna Down

Date: 2021.06.04

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

Medium parameters used: $f = 1752.6$ MHz; $\sigma = 1.37$ S/m; $\epsilon_r = 38.92$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.0 Liquid Temperature: 21.2

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; SEMCAD X Version 14.6.10 (7331)

Ch1513/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.208 W/kg

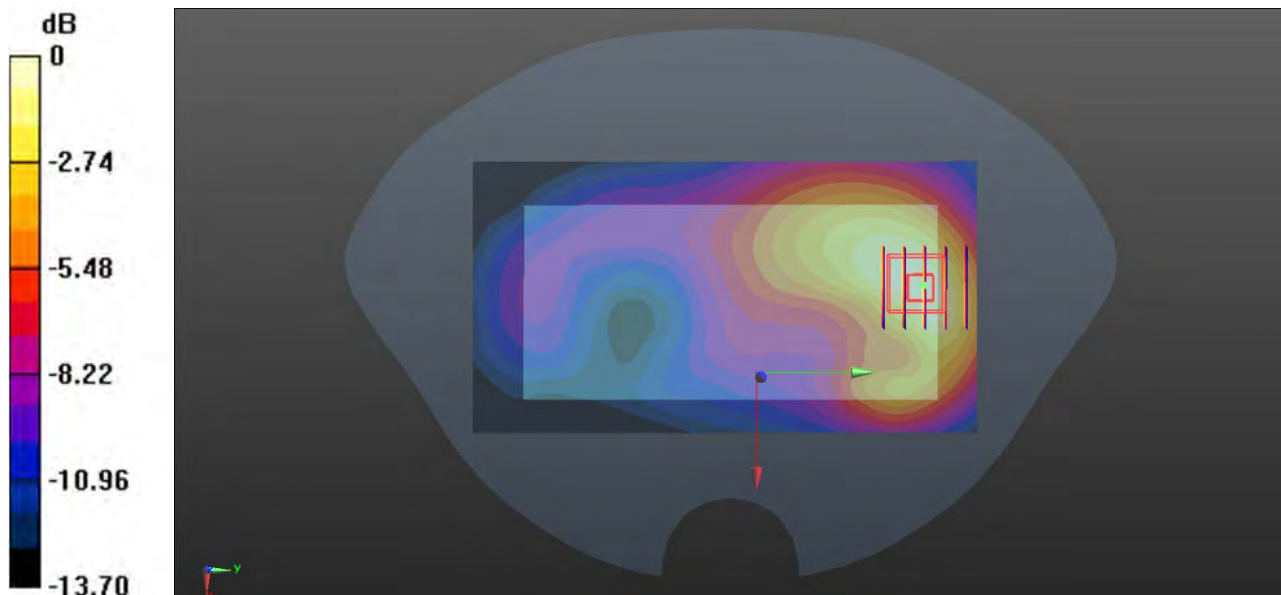
Ch1513/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.073 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.301 W/kg

SAR(1 g) = 0.196 W/kg; SAR(10 g) = 0.121 W/kg

Maximum value of SAR (measured) = 0.212 W/kg



0 dB = 0.212 W/kg

12-Body Plan with Top Edge 10mm on High Channel in WCDMA Band4 Mode with Antenna Up

Date: 2021.06.04

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

Medium parameters used: $f = 1752.6$ MHz; $\sigma = 1.37$ S/m; $\epsilon_r = 38.92$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.0 Liquid Temperature: 21.2

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; SEMCAD X Version 14.6.10 (7331)

Ch1513/Area Scan (51x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.536 W/kg

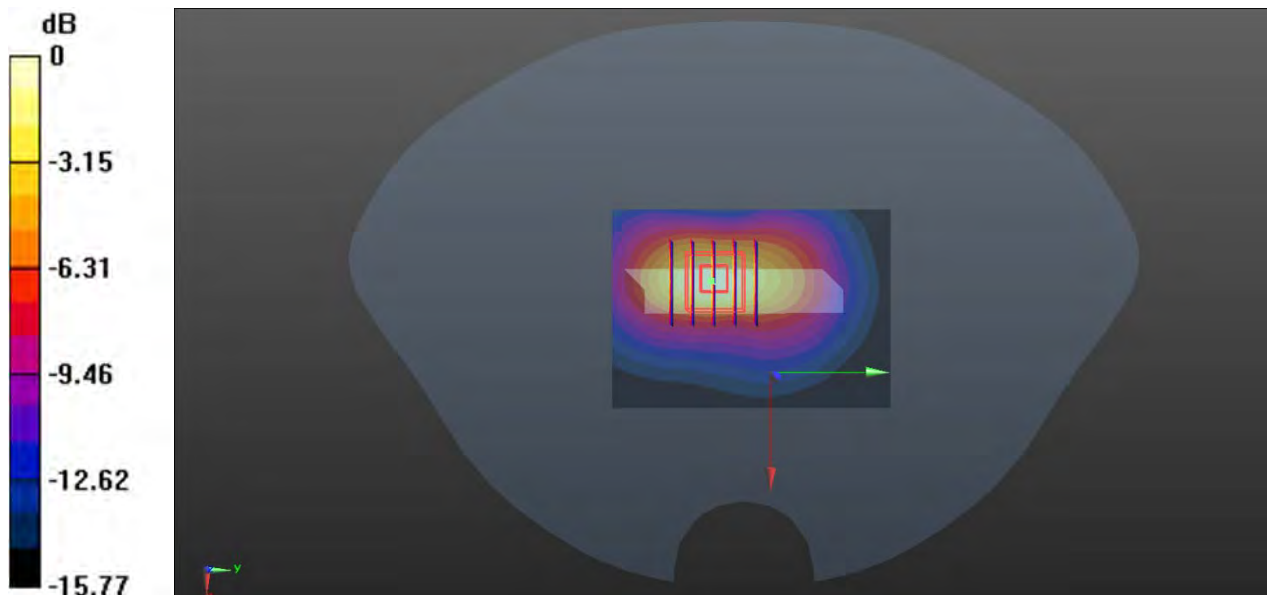
Ch1513/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.79 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.882 W/kg

SAR(1 g) = 0.484 W/kg; SAR(10 g) = 0.247 W/kg

Maximum value of SAR (measured) = 0.560 W/kg



0 dB = 0.560 W/kg

13-Right Head with Cheek on Low Channel in WCDMA Band5 Mode with Antenna Up

Date: 2021.06.09

Communication System Band: V; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 826.4 \text{ MHz}$; $\sigma = 0.894 \text{ S/m}$; $\epsilon_r = 41.717$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Ambient Temperature: 22.6 Liquid Temperature: 21.8

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 Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch4132/Area Scan (71x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.410 W/kg

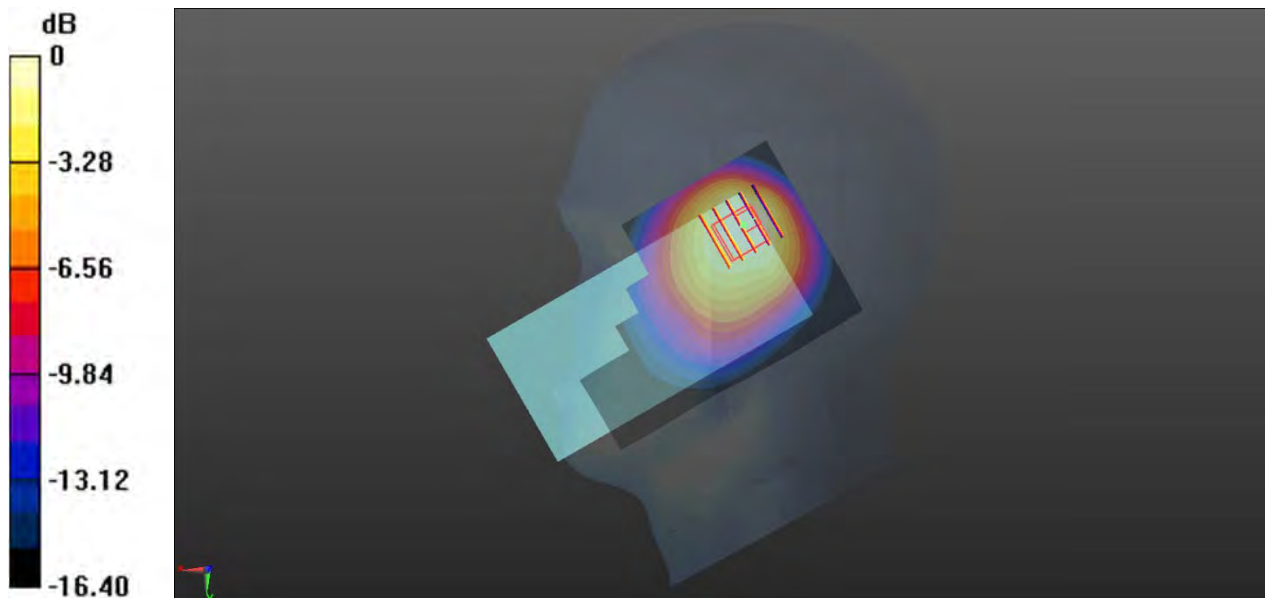
Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 15.92 V/m ; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.709 W/kg

SAR(1 g) = 0.367 W/kg ; SAR(10 g) = 0.228 W/kg

Maximum value of SAR (measured) = 0.381 W/kg



0 dB = 0.381 W/kg

14-Body Plane with Back Side 15mm on Low Channel in WCDMA Band5 Mode with Antenna Down

Date: 2021.06.09

Communication System Band: V; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 826.4$ MHz; $\sigma = 0.894$ S/m; $\epsilon_r = 41.717$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.6 Liquid Temperature: 21.8

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 Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch4132/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.147 W/kg

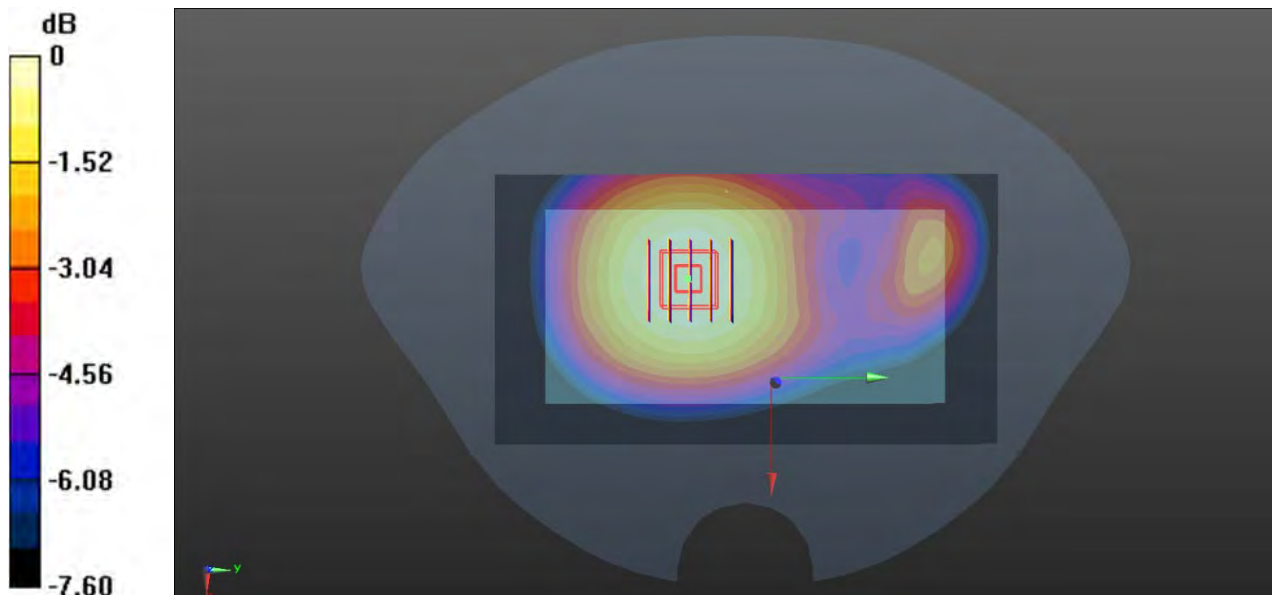
Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.06 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.163 W/kg

SAR(1 g) = 0.141 W/kg; SAR(10 g) = 0.098 W/kg

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



0 dB = 0.149 W/kg

15-Body Plane with Back Side 10mm on Low Channel in WCDMA Band5 Mode with Antenna Down

Date: 2021.06.09

Communication System Band: V; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 826.4$ MHz; $\sigma = 0.894$ S/m; $\epsilon_r = 41.717$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.6 Liquid Temperature: 21.8

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 Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch4132/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.156 W/kg

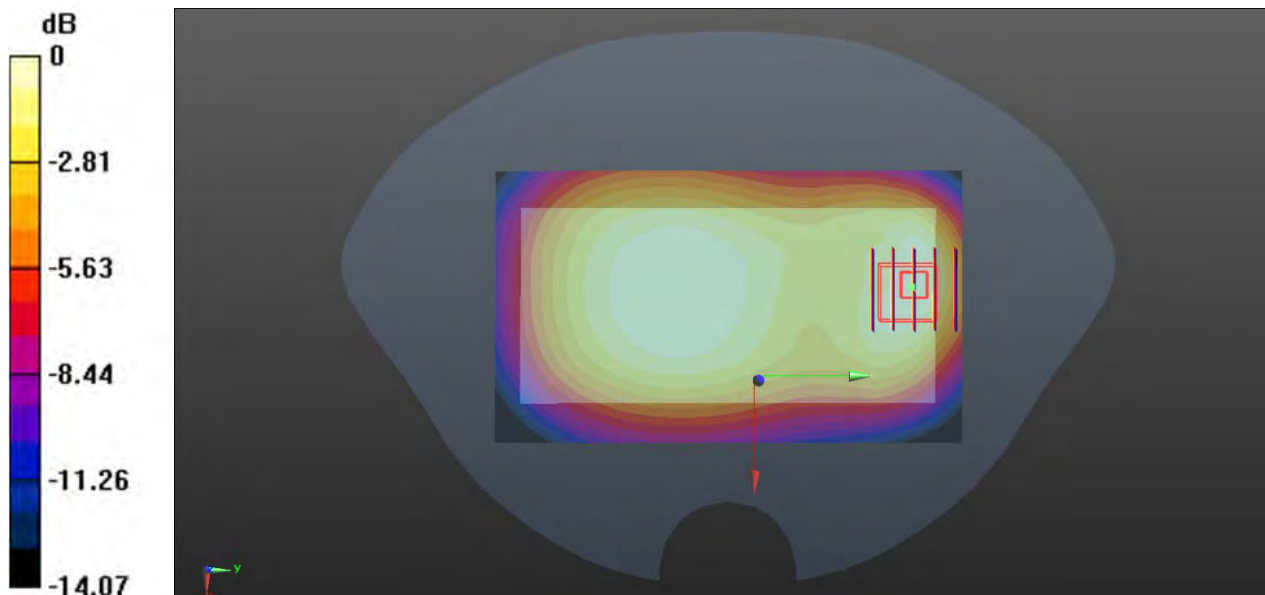
Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.20 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.240 W/kg

SAR(1 g) = 0.145 W/kg; SAR(10 g) = 0.084 W/kg

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



0 dB = 0.149 W/kg

16-Right Head with Tilt on Low Channel in LTE Band2 Mode with Antenna Up

Date: 2021.06.03

Communication System Band: Band 2, (1850.0 - 1910.0 MHz); Frequency: 1860 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1860$ MHz; $\sigma = 1.404$ S/m; $\epsilon_r = 40.47$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature: 22.8 Liquid Temperature: 21.9

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; SEMCAD X Version 14.6.10 (7331)

Ch18700/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.679 W/kg

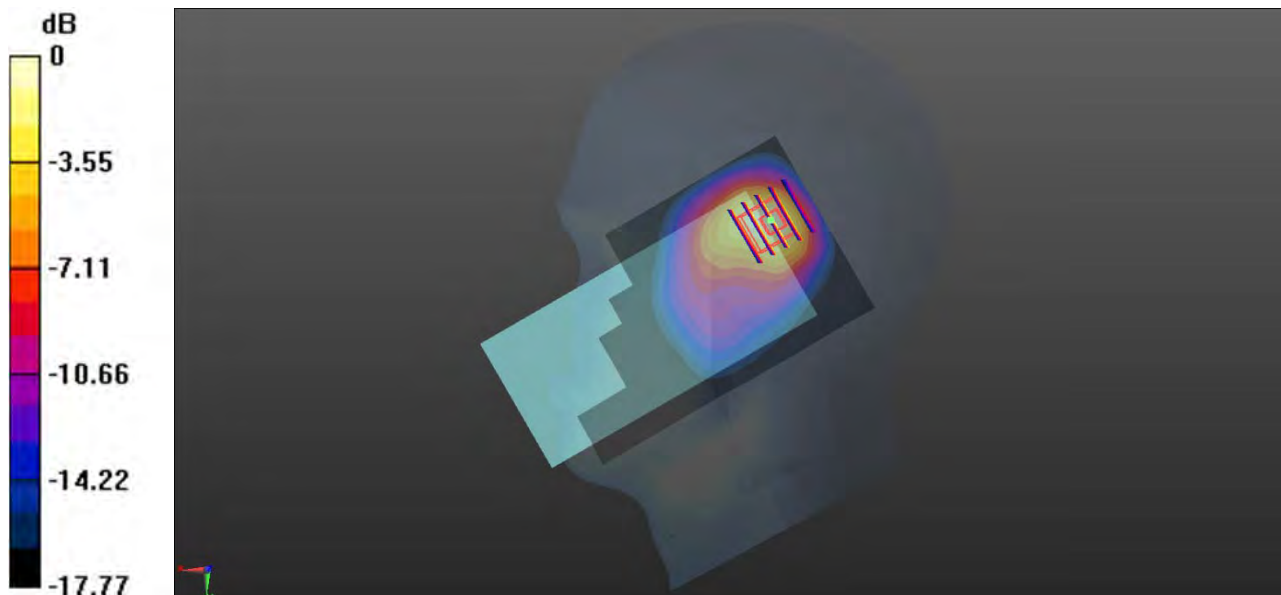
Ch18700/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.21 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.29 W/kg

SAR(1 g) = 0.621 W/kg; SAR(10 g) = 0.307 W/kg

Maximum value of SAR (measured) = 0.717 W/kg



0 dB = 0.717 W/kg

17-Body Plan with Back Side 15mm on Low Channel in LTE Band2 Mode with Antenna Down

Date: 2021.06.03

Communication System Band: Band 2, (1850.0 - 1910.0 MHz); Frequency: 1860 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 1860$ MHz; $\sigma = 1.404$ S/m; $\epsilon_r = 40.47$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.8 Liquid Temperature:21.9

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; SEMCAD X Version 14.6.10 (7331)

Ch18700/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.251 W/kg

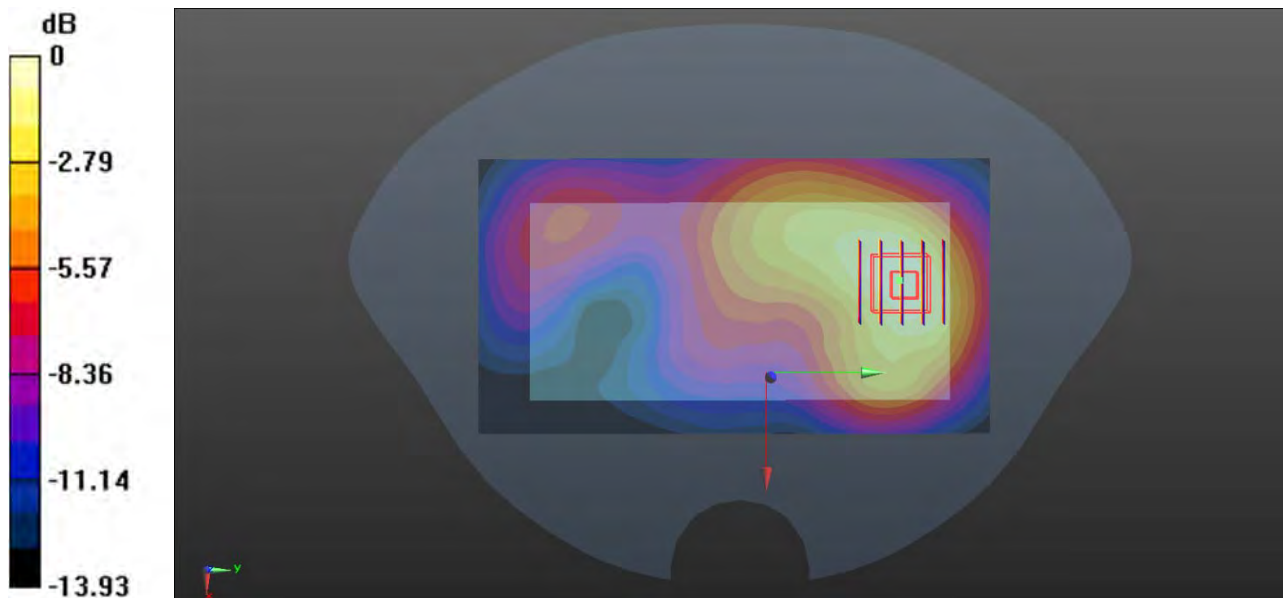
Ch18700/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.098 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.365 W/kg

SAR(1 g) = 0.231 W/kg; SAR(10 g) = 0.141 W/kg

Maximum value of SAR (measured) = 0.249 W/kg



0 dB = 0.249 W/kg

18-Body Plan with Bottom Edge 10mm on Low Channel in LTE Band2 Mode with Antenna Down

Date: 2021.06.03

Communication System Band: Band 2, (1850.0 - 1910.0 MHz); Frequency: 1860 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 1860$ MHz; $\sigma = 1.404$ S/m; $\epsilon_r = 40.47$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.8 Liquid Temperature:21.9

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; SEMCAD X Version 14.6.10 (7331)

Ch18700/Area Scan (51x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.578 W/kg

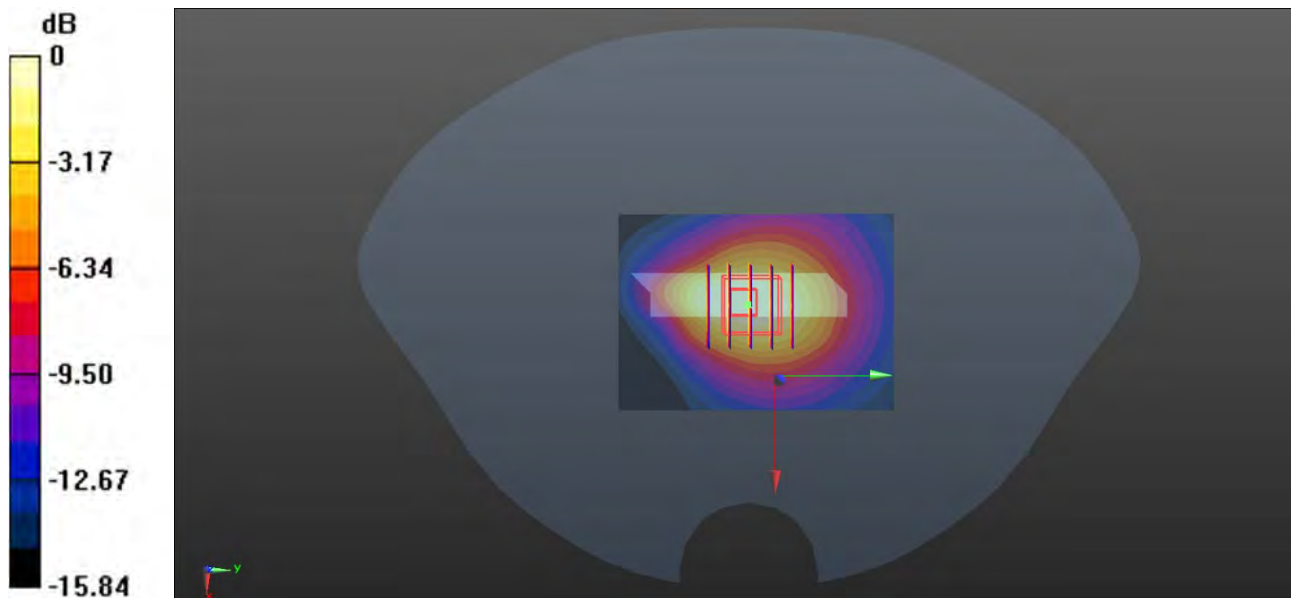
Ch18700/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.48 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.815 W/kg

SAR(1 g) = 0.481 W/kg; SAR(10 g) = 0.275 W/kg

Maximum value of SAR (measured) = 0.527 W/kg



0 dB = 0.527 W/kg

19-Right Head with Cheek on Middle Channel in LTE Band5 Mode with Antenna Up

Date: 2021.06.08

Communication System Band: Band 5, (824.0 - 849.0 MHz); Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 836.5$ MHz; $\sigma = 0.905$ S/m; $\epsilon_r = 40.231$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature: 22.3 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 Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch20525/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.477 W/kg

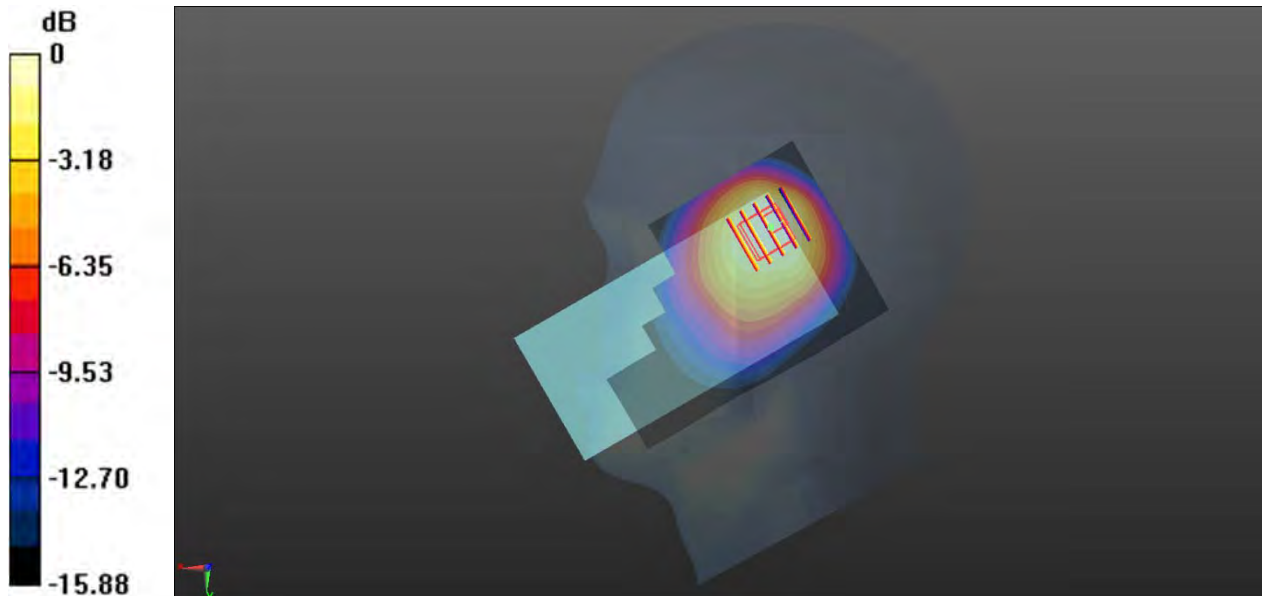
Ch20525/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.14 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.804 W/kg

SAR(1 g) = 0.423 W/kg; SAR(10 g) = 0.264 W/kg

Maximum value of SAR (measured) = 0.438 W/kg



0 dB = 0.438 W/kg

20-Body Plane with Back Side 15mm on Middle Channel in LTE Band5 Mode with Antenna Down

Date: 2021.06.08

Communication System Band: Band 5, (824.0 - 849.0 MHz); Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 836.5$ MHz; $\sigma = 0.905$ S/m; $\epsilon_r = 40.231$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3 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 Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch20525/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.159 W/kg

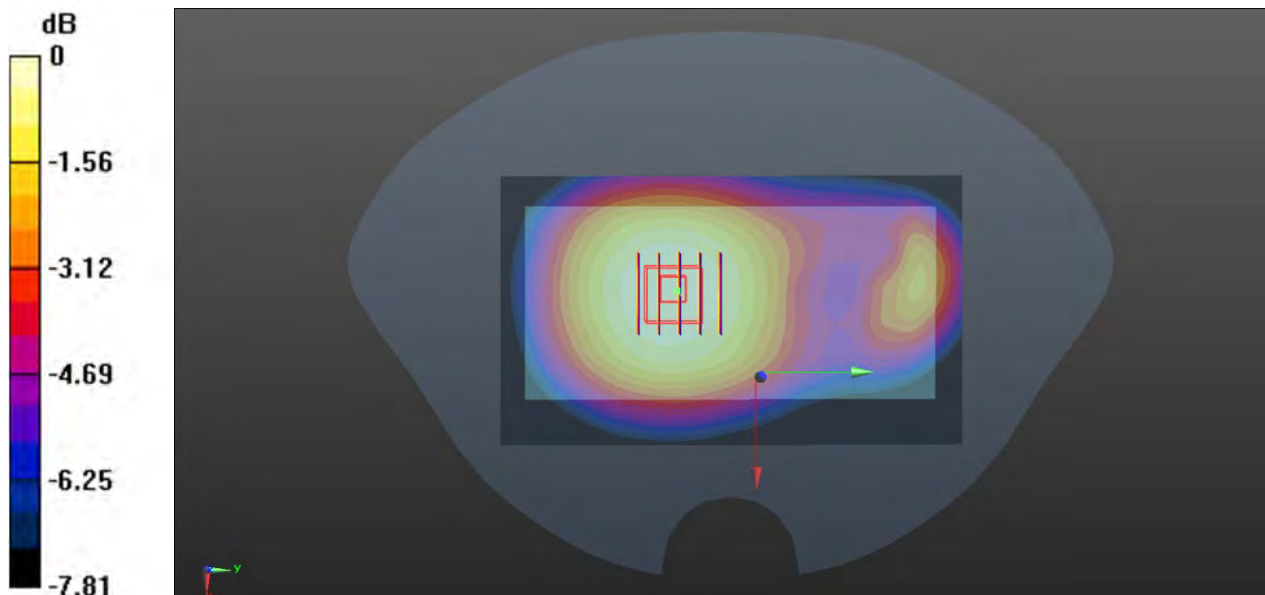
Ch20525/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.53 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.191 W/kg

SAR(1 g) = 0.149 W/kg; SAR(10 g) = 0.113 W/kg

Maximum value of SAR (measured) = 0.156 W/kg



0 dB = 0.156 W/kg

21-Body Plane with Back Side 10mm on Middle Channel in LTE Band5 Mode with Antenna Down

Date: 2021.06.08

Communication System Band: Band 5, (824.0 - 849.0 MHz); Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 836.5$ MHz; $\sigma = 0.905$ S/m; $\epsilon_r = 40.231$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3 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 Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch20525/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.159 W/kg

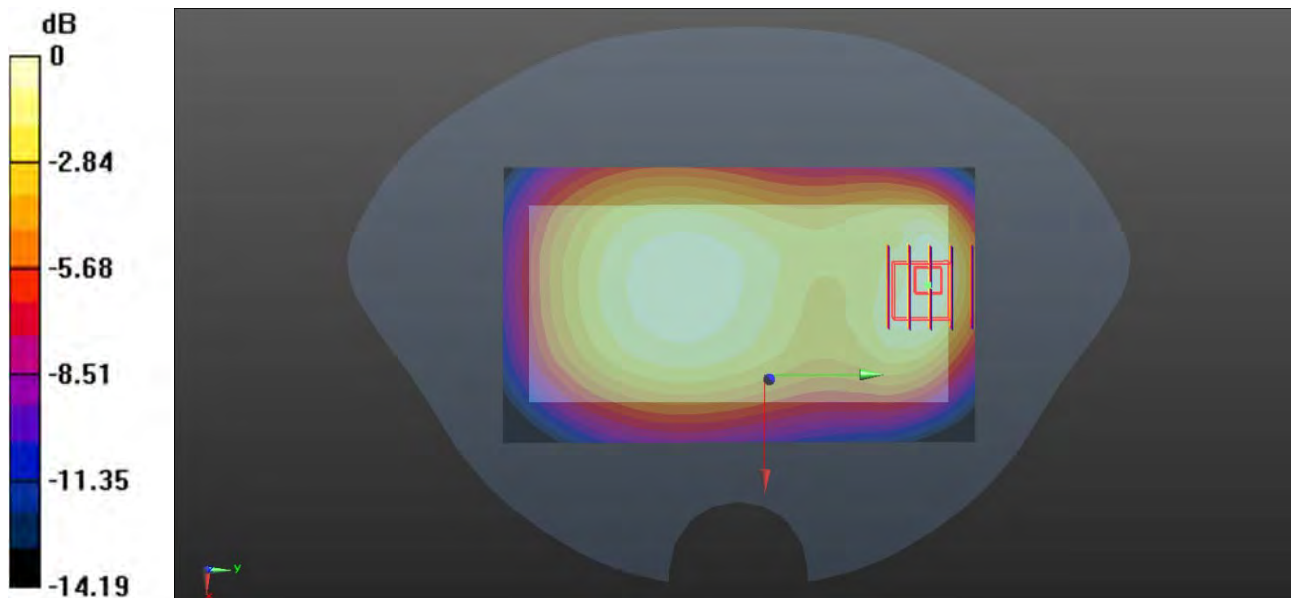
Ch20525/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.72 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.249 W/kg

SAR(1 g) = 0.149 W/kg; SAR(10 g) = 0.086 W/kg

Maximum value of SAR (measured) = 0.155 W/kg



0 dB = 0.155 W/kg

22-Right Head with Tilt on Low Channel in LTE Band7 Mode with Antenna Up

Date: 2021.06.06

Communication System Band: Band 7, (2500.0 - 2570.0 MHz); Frequency: 2510 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2510$ MHz; $\sigma = 1.831$ S/m; $\epsilon_r = 38.983$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature: 22.3 Liquid Temperature: 21.5

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.54, 7.54, 7.54); 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; SEMCAD X Version 14.6.10 (7331)

Ch20850/Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.510 W/kg

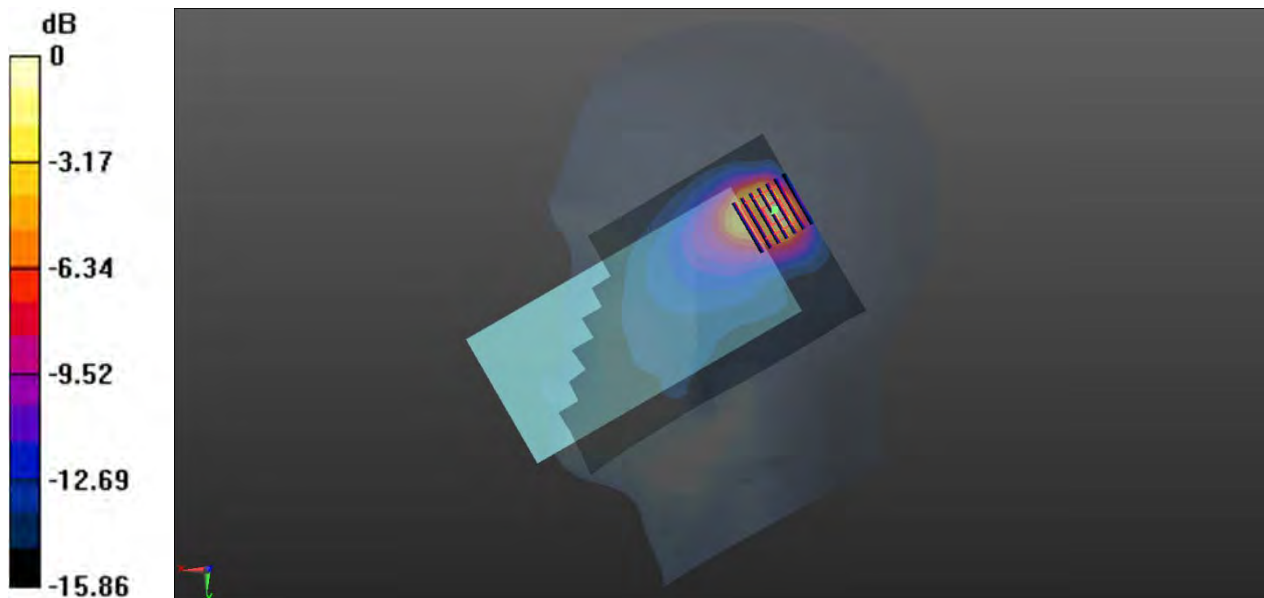
Ch20850/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.266 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.402 W/kg; SAR(10 g) = 0.159 W/kg

Maximum value of SAR (measured) = 0.489 W/kg



0 dB = 0.489 W/kg

23-Body Plane with Back Side 15mm on Low Channel in LTE Band7 Mode with Antenna Up

Date: 2021.06.06

Communication System Band: Band 7, E-UTRA/FDD (2500.0 - 2570.0 MHz); Frequency: 2510 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2510$ MHz; $\sigma = 1.831$ S/m; $\epsilon_r = 38.983$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3 Liquid Temperature: 21.5

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.54, 7.54, 7.54); 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; SEMCAD X Version 14.6.10 (7331)

Ch20850/Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.580 W/kg

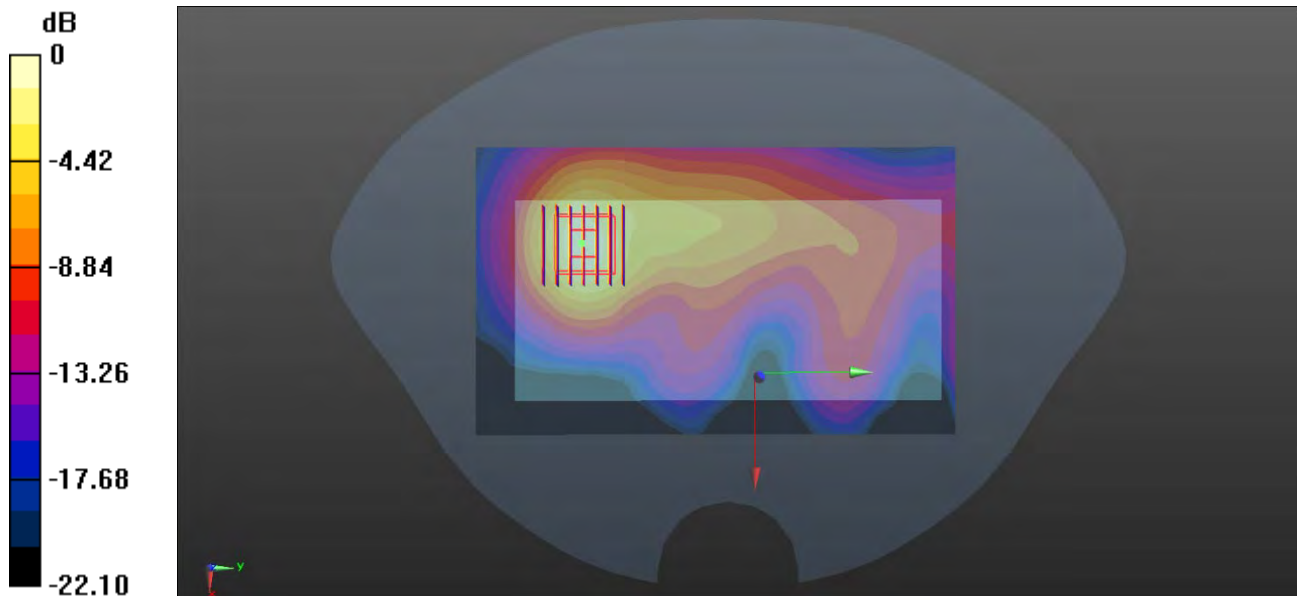
Ch20850/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.423 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.529 W/kg; SAR(10 g) = 0.251 W/kg

Maximum value of SAR (measured) = 0.594 W/kg



0 dB = 0.594 W/kg

24-Body Plane with Top Edge 10mm on Low Channel in LTE Band7 Mode with Antenna Up

Date: 2021.06.06

Communication System Band: Band 7, (2500.0 - 2570.0 MHz); Frequency: 2510 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2510$ MHz; $\sigma = 1.831$ S/m; $\epsilon_r = 38.983$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3 Liquid Temperature: 21.5

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.54, 7.54, 7.54); 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; SEMCAD X Version 14.6.10 (7331)

Ch20850/Area Scan (61x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

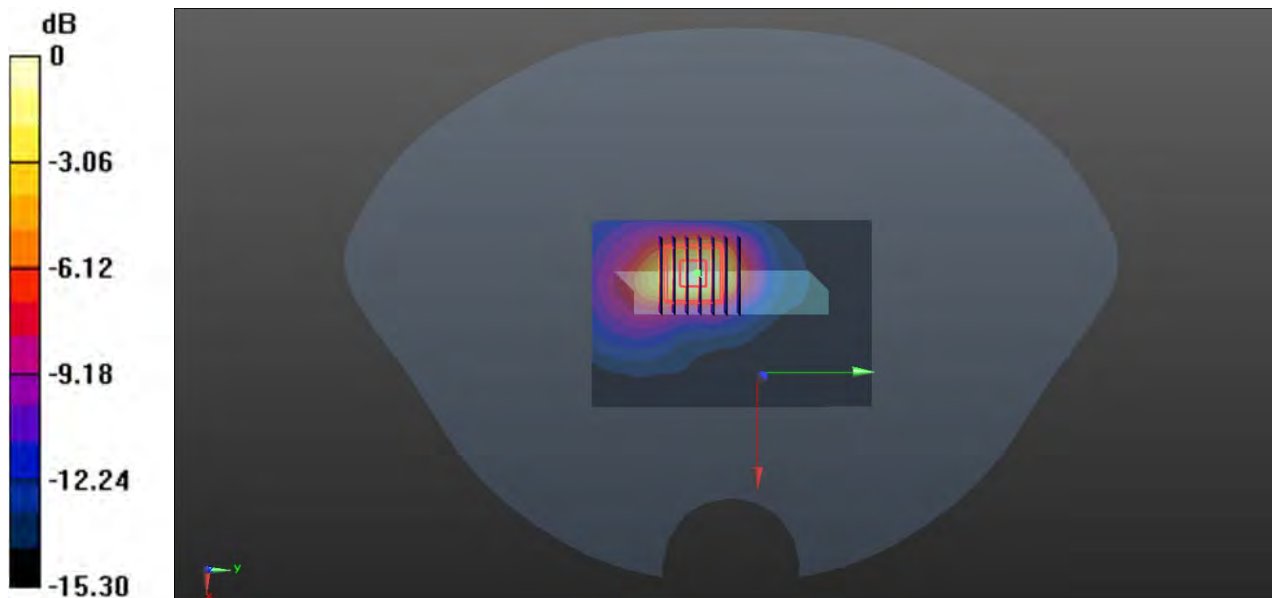
Ch20850/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.459 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.870 W/kg

SAR(1 g) = 0.398 W/kg; SAR(10 g) = 0.167 W/kg

Maximum value of SAR (measured) = 0.460 W/kg



0 dB = 0.460 W/kg

25-Right Head with Cheek on High Channel in LTE Band12 Mode with Antenna Up

Date: 2021.06.10

Communication System Band: Band 12, (699.0 - 716.0 MHz); Frequency: 711 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 711$ MHz; $\sigma = 0.867$ S/m; $\epsilon_r = 42.139$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature: 22.5 Liquid Temperature: 21.6

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 Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch23130/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.0568 W/kg

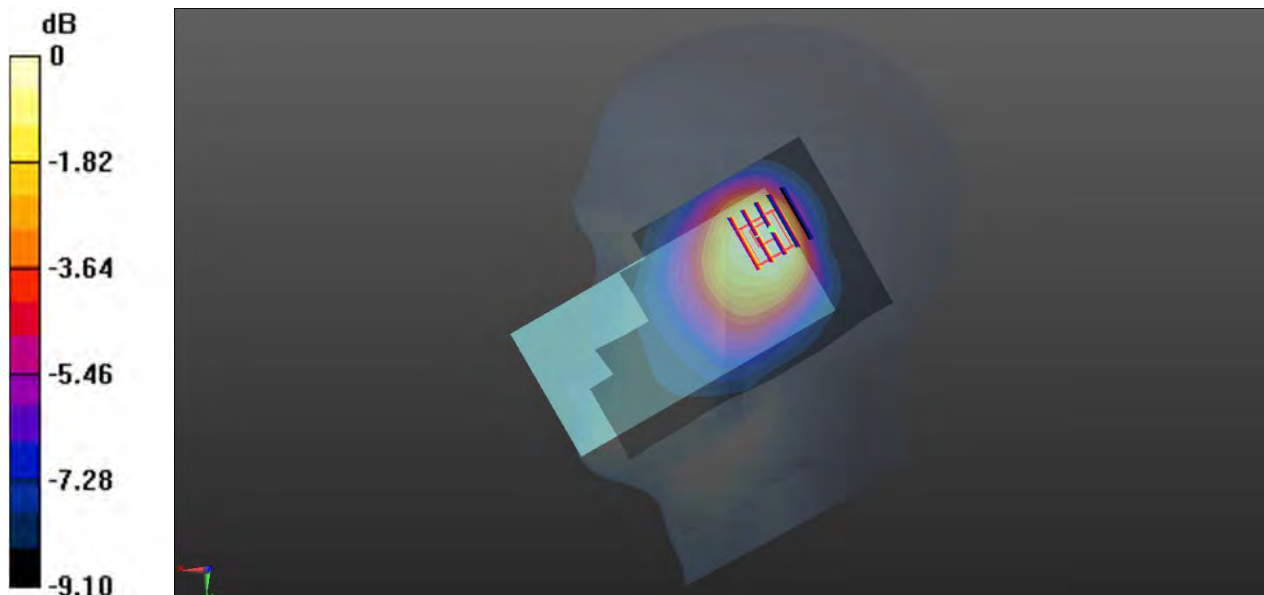
Ch23130/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.536 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.0820 W/kg

SAR(1 g) = 0.044 W/kg; SAR(10 g) = 0.030 W/kg

Maximum value of SAR (measured) = 0.0465 W/kg



0 dB = 0.0465 W/kg

26-Body Plane with Back Side 15mm on Low Channel in LTE Band12 Mode with Antenna Down

Date: 2021.06.10

Communication System Band: Band 12, (699.0 - 716.0 MHz); Frequency: 704 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 704$ MHz; $\sigma = 0.859$ S/m; $\epsilon_r = 42.367$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.5 Liquid Temperature: 21.6

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 Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch23060/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

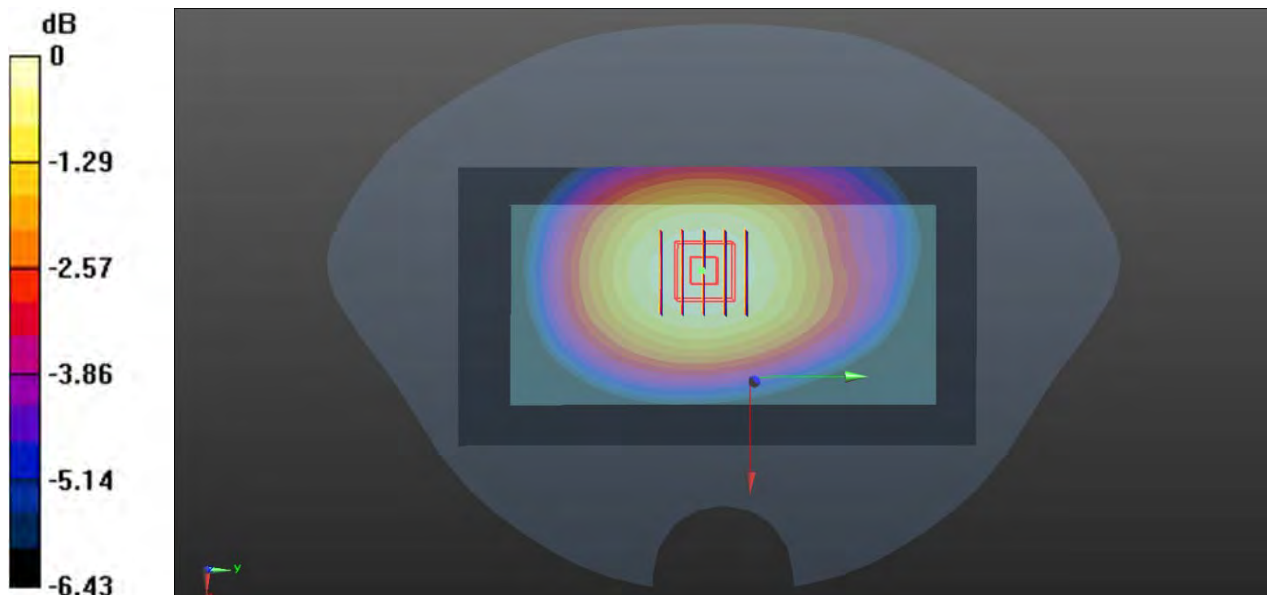
Ch23060/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.68 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.237 W/kg

SAR(1 g) = 0.198 W/kg; SAR(10 g) = 0.158 W/kg

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



0 dB = 0.206 W/kg

27-Body Plane with Back Side 10mm on Low Channel in LTE Band12 Mode with Antenna Down

Date: 2021.06.10

Communication System Band: Band 12, (699.0 - 716.0 MHz); Frequency: 704 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 704$ MHz; $\sigma = 0.859$ S/m; $\epsilon_r = 42.367$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.5 Liquid Temperature: 21.6

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 Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch23060/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.213 W/kg

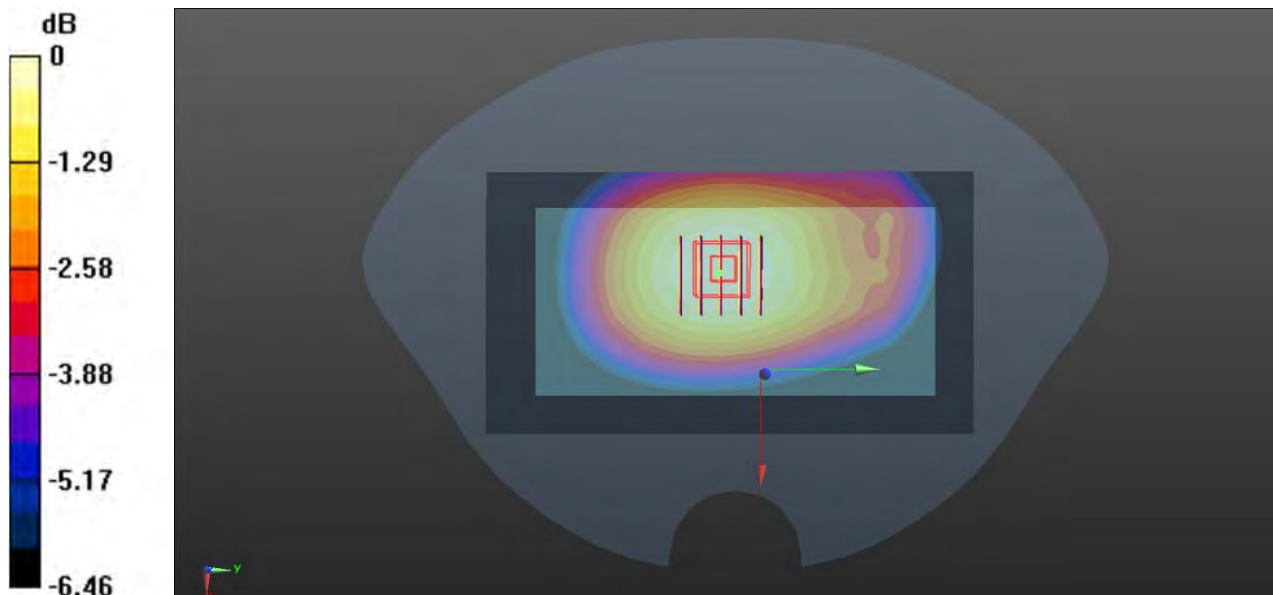
Ch23060/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.96 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.243 W/kg

SAR(1 g) = 0.204 W/kg; SAR(10 g) = 0.164 W/kg

Maximum value of SAR (measured) = 0.212 W/kg



0 dB = 0.212 W/kg

28-Right Head with Cheek on Low Channel in LTE Band26 Mode with Antenna Up

Date: 2021.06.08

Communication System Band: Band 26, (814.0 - 849.0 MHz); Frequency: 821.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 821.5$ MHz; $\sigma = 0.869$ S/m; $\epsilon_r = 40.324$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature: 22.3 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 Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch26765/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.511 W/kg

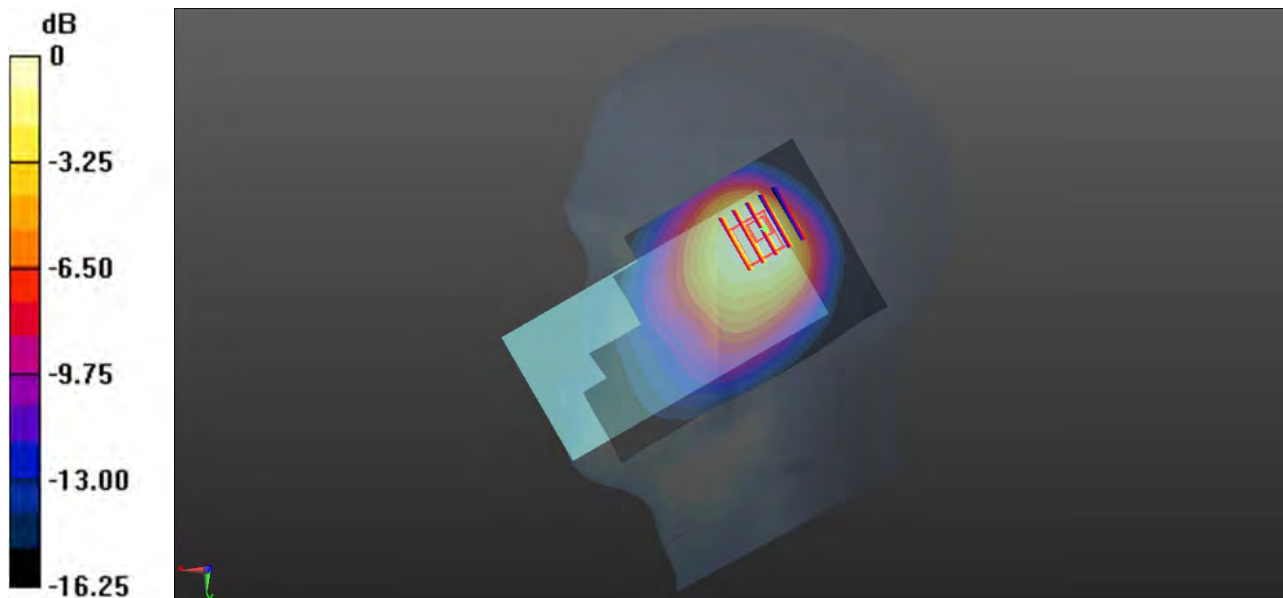
Ch26765/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.80 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.760 W/kg

SAR(1 g) = 0.406 W/kg; SAR(10 g) = 0.253 W/kg

Maximum value of SAR (measured) = 0.423 W/kg



0 dB = 0.423 W/kg

29-Body Plane with Back Side 15mm on Low Channel in LTE Band26 Mode with Antenna Down

Date: 2021.06.08

Communication System Band: Band 26, (814.0 - 849.0 MHz); Frequency: 821.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 821.5$ MHz; $\sigma = 0.869$ S/m; $\epsilon_r = 40.324$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3 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 Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch26765/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.159 W/kg

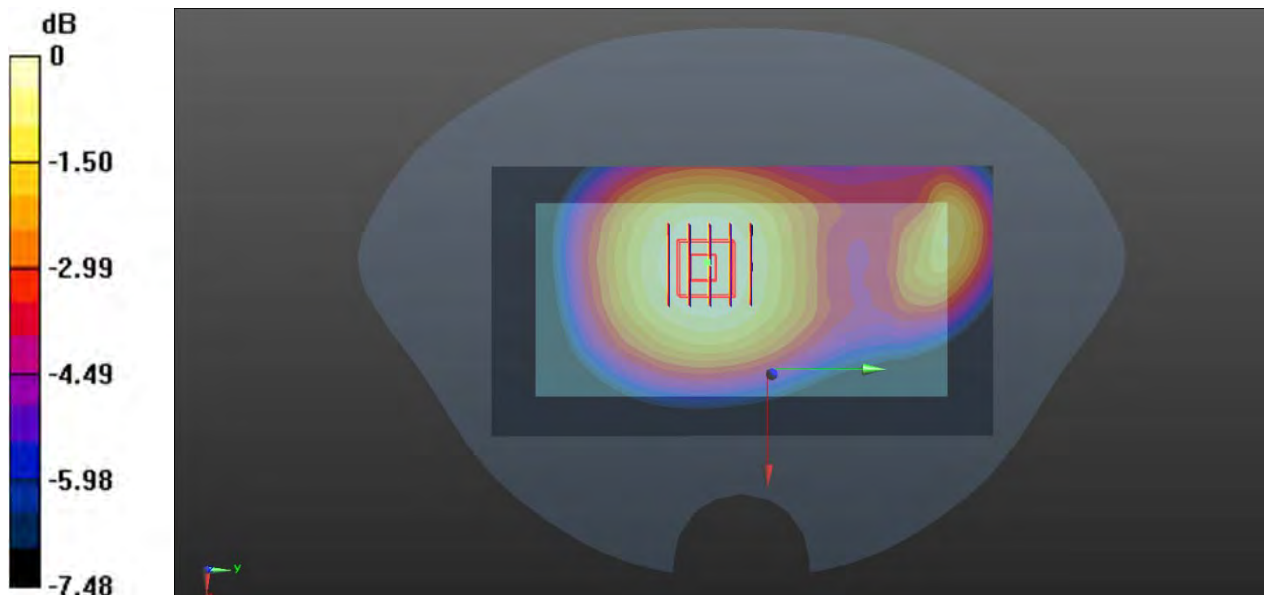
Ch26765/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.62 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.188 W/kg

SAR(1 g) = 0.152 W/kg; SAR(10 g) = 0.117 W/kg

Maximum value of SAR (measured) = 0.159 W/kg



0 dB = 0.159 W/kg

30-Body Plane with Back Side 10mm on Low Channel in LTE Band26 Mode with Antenna Down

Date: 2021.06.08

Communication System Band: Band 26, (814.0 - 849.0 MHz); Frequency: 821.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 821.5$ MHz; $\sigma = 0.869$ S/m; $\epsilon_r = 40.324$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3 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 Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch26765/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.223 W/kg

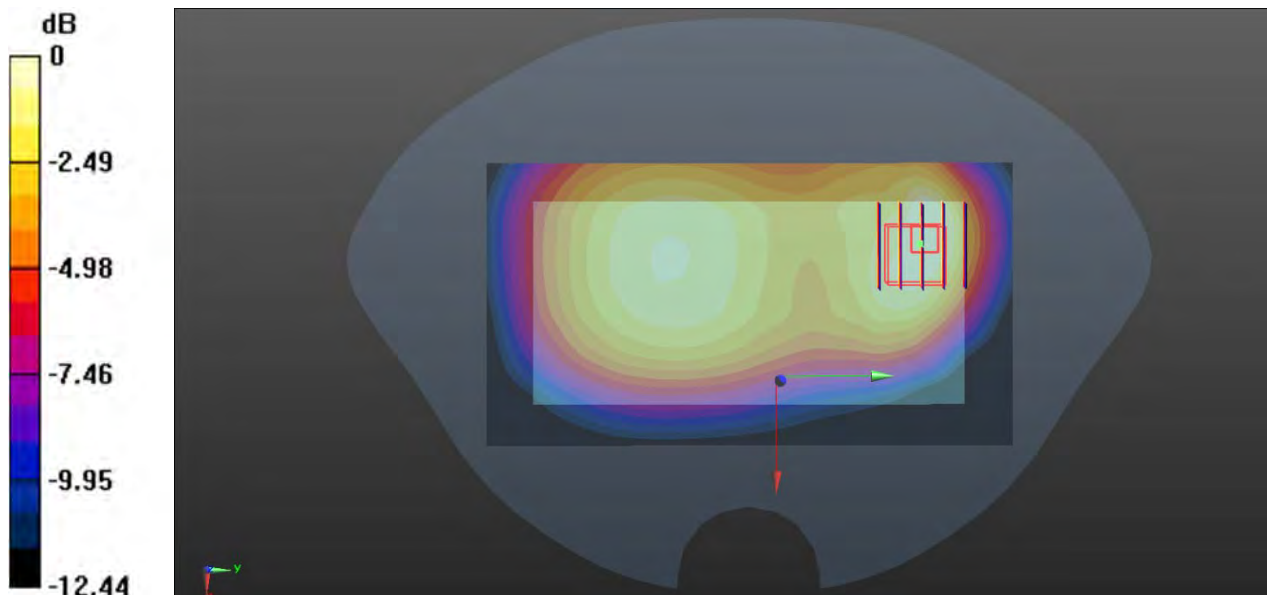
Ch26765/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.78 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.332 W/kg

SAR(1 g) = 0.198 W/kg; SAR(10 g) = 0.123 W/kg

Maximum value of SAR (measured) = 0.212 W/kg



0 dB = 0.212 W/kg

31-Right Head with Tilt on Middle Channel in LTE Band66 Mode with Antenna Up

Date: 2021.06.04

Communication System Band: Band 66, (1710.0 - 1780.0 MHz); Frequency: 1745 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1745$ MHz; $\sigma = 1.359$ S/m; $\epsilon_r = 39.067$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature:22.0 Liquid Temperature:21.2

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; SEMCAD X Version 14.6.10 (7331)

Ch132322/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

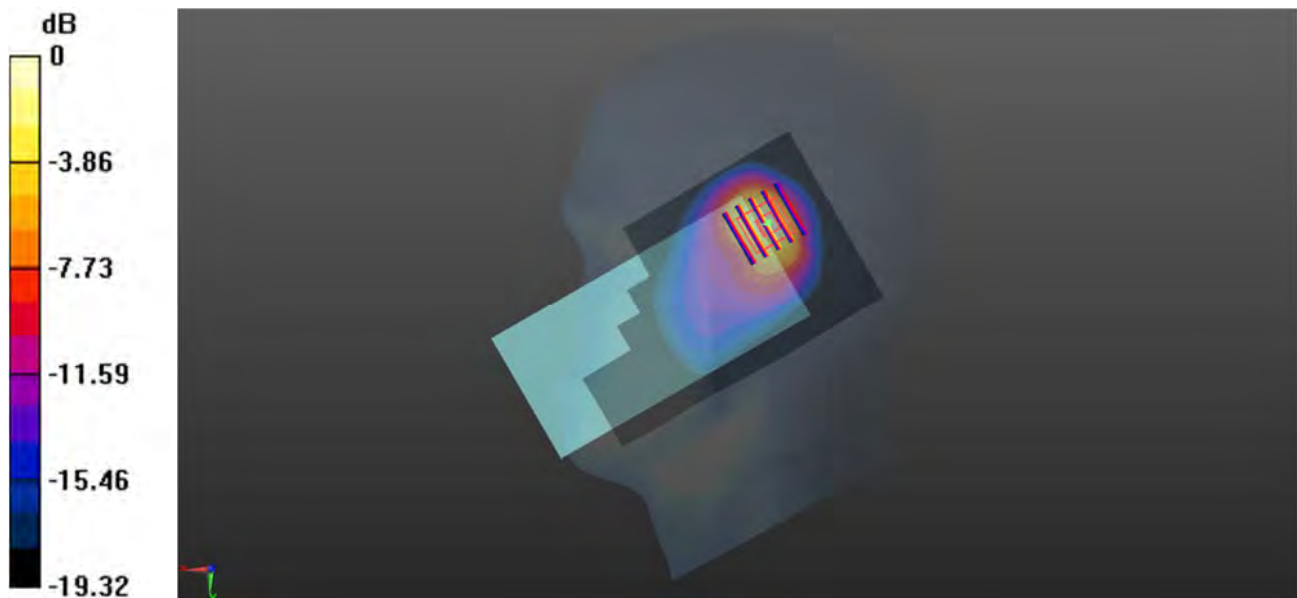
Ch132322/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.03 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 2.11 W/kg

SAR(1 g) = 0.993 W/kg; SAR(10 g) = 0.455 W/kg

Maximum value of SAR (measured) = 1.19 W/kg



0 dB = 1.19 W/kg

32-Body Plan with Back Side 15mm on High Channel in LTE Band66 Mode with Antenna Up

Date: 2021.06.04

Communication System Band:Band 66, (1710.0 - 1780.0 MHz); Frequency: 1770 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 1770$ MHz; $\sigma = 1.389$ S/m; $\epsilon_r = 38.841$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.0 Liquid Temperature:21.2

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; SEMCAD X Version 14.6.10 (7331)

Ch132572/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

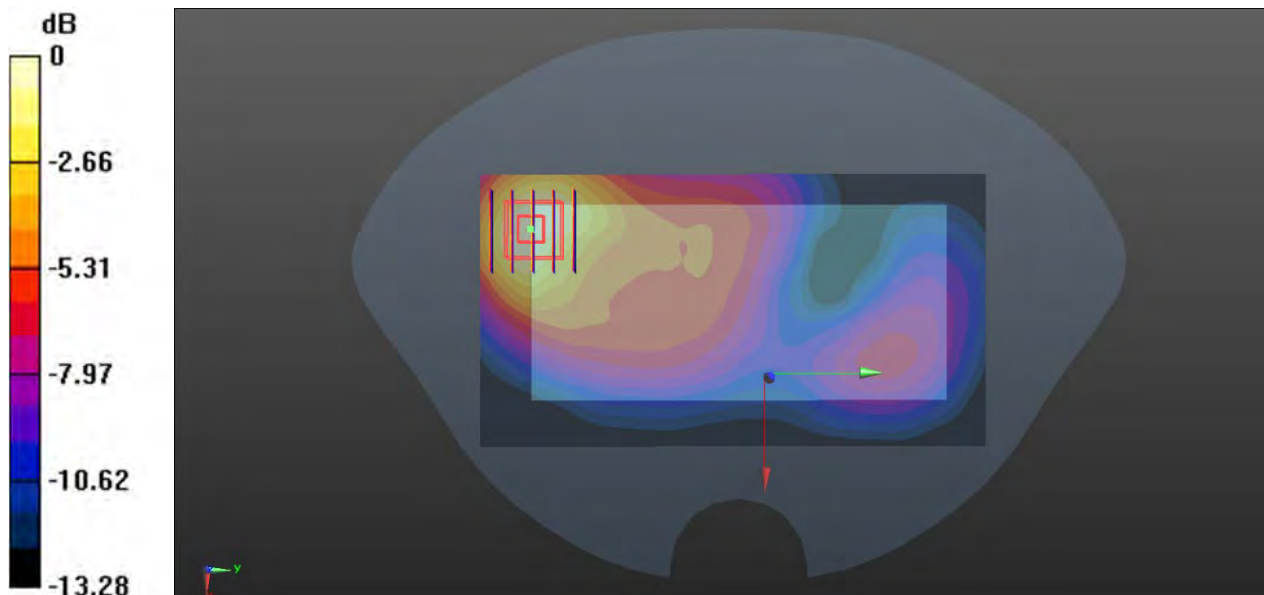
Ch132572/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.885 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.320 W/kg

SAR(1 g) = 0.195 W/kg; SAR(10 g) = 0.116 W/kg

Maximum value of SAR (measured) = 0.214 W/kg



0 dB = 0.214 W/kg

33-Body Plan with Top Edge 10mm on Middle Channel in LTE Band66 Mode with Antenna Up

Date: 2021.06.04

Communication System Band:Band 66, (1710.0 - 1780.0 MHz); Frequency: 1745 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 1745$ MHz; $\sigma = 1.359$ S/m; $\epsilon_r = 39.067$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.0 Liquid Temperature:21.2

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; SEMCAD X Version 14.6.10 (7331)

Ch132322/Area Scan (51x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

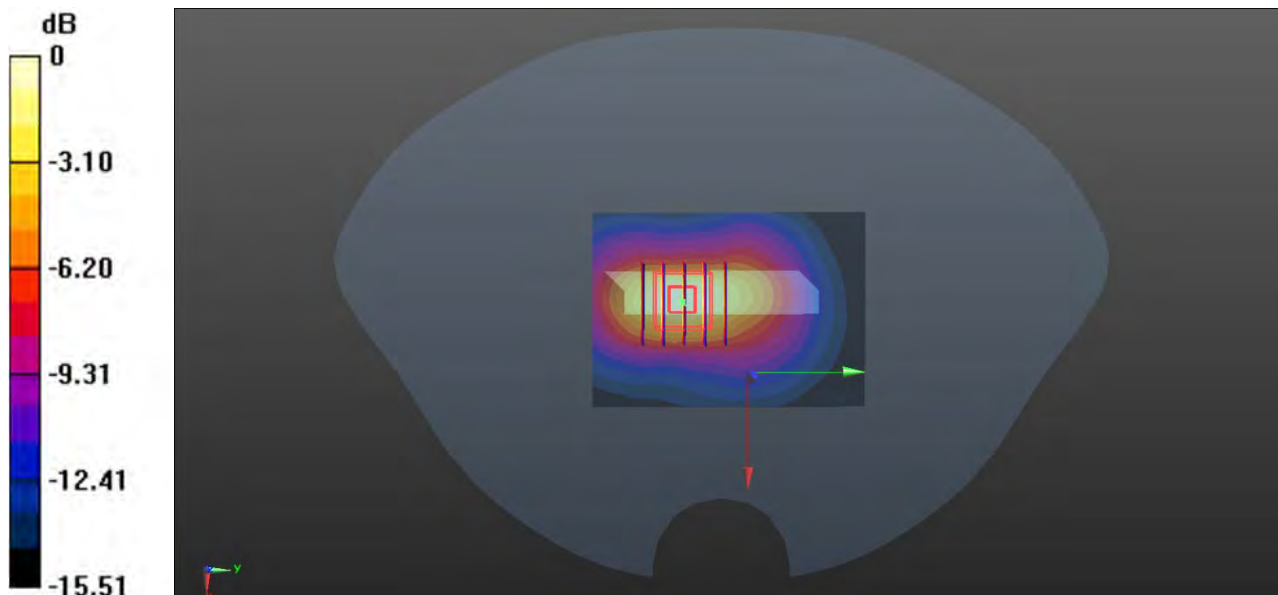
Ch132322/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.01 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.803 W/kg

SAR(1 g) = 0.490 W/kg; SAR(10 g) = 0.253 W/kg

Maximum value of SAR (measured) = 0.513 W/kg



0 dB = 0.513 W/kg

34-Right Head with Cheek on High Channel in LTE Band38 Mode with Antenna Up

Date: 2021.06.06

Communication System Band: Band 38, (2570.0 - 2620.0 MHz); Frequency: 2610 MHz;Duty Cycle: 1:1.58

Medium parameters used $f = 2610$ MHz; $\sigma = 1.97$ S/m; $\epsilon_r = 37.983$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature:22.3 Liquid Temperature:21.5

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.5, 7.5, 7.5); 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; SEMCAD X Version 14.6.10 (7331)

Ch38150/Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.716 W/kg

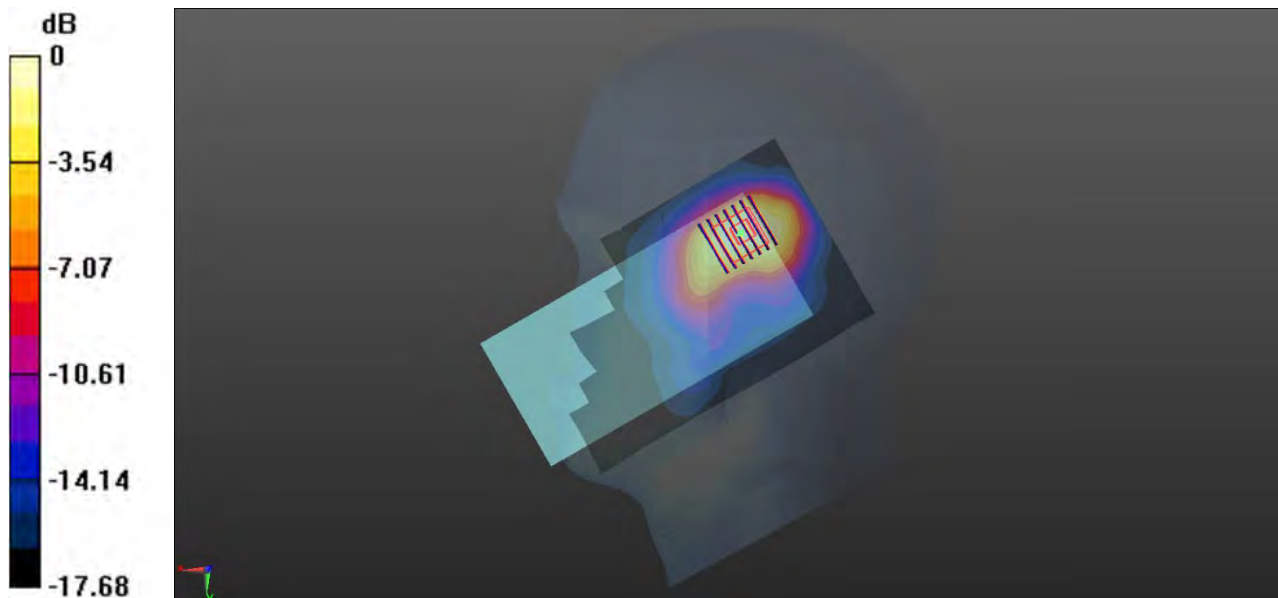
Ch38150/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.16 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.34 W/kg

SAR(1 g) = 0.645 W/kg; SAR(10 g) = 0.306 W/kg

Maximum value of SAR (measured) = 0.730 W/kg



0 dB = 0.730 W/kg

35-Body Plane with Back Side 15mm on High Channel in LTE Band38 Mode with Antenna Up

Date: 2021.06.06

Communication System Band: Band 38, (2570.0 - 2620.0 MHz); Frequency: 2610 MHz; Duty Cycle: 1:1.58

Medium parameters used: $f = 2610$ MHz; $\sigma = 1.97$ S/m; $\epsilon_r = 37.983$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3 Liquid Temperature: 21.5

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.5, 7.5, 7.5); 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; SEMCAD X Version 14.6.10 (7331)

Ch38150/Area Scan (81x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.276 W/kg

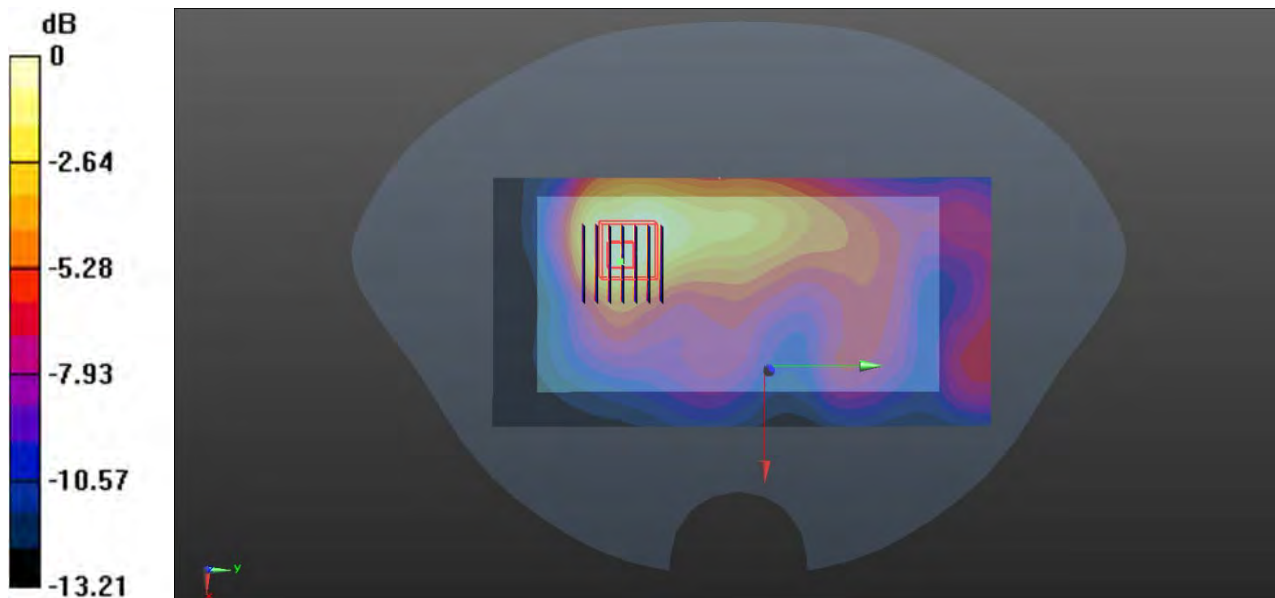
Ch38150/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.773 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.545 W/kg

SAR(1 g) = 0.249 W/kg; SAR(10 g) = 0.127 W/kg

Maximum value of SAR (measured) = 0.271 W/kg



0 dB = 0.271 W/kg

36-Body Plane with Back Side 10mm on High Channel in LTE Band38 Mode with Antenna Up

Date: 2021.06.06

Communication System Band: Band 38, (2570.0 - 2620.0 MHz); Frequency: 2610 MHz; Duty Cycle: 1:1.58

Medium parameters used: $f = 2610$ MHz; $\sigma = 1.97$ S/m; $\epsilon_r = 37.983$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3 Liquid Temperature: 21.5

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.5, 7.5, 7.5); 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; SEMCAD X Version 14.6.10 (7331)

Ch38150/Area Scan (81x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

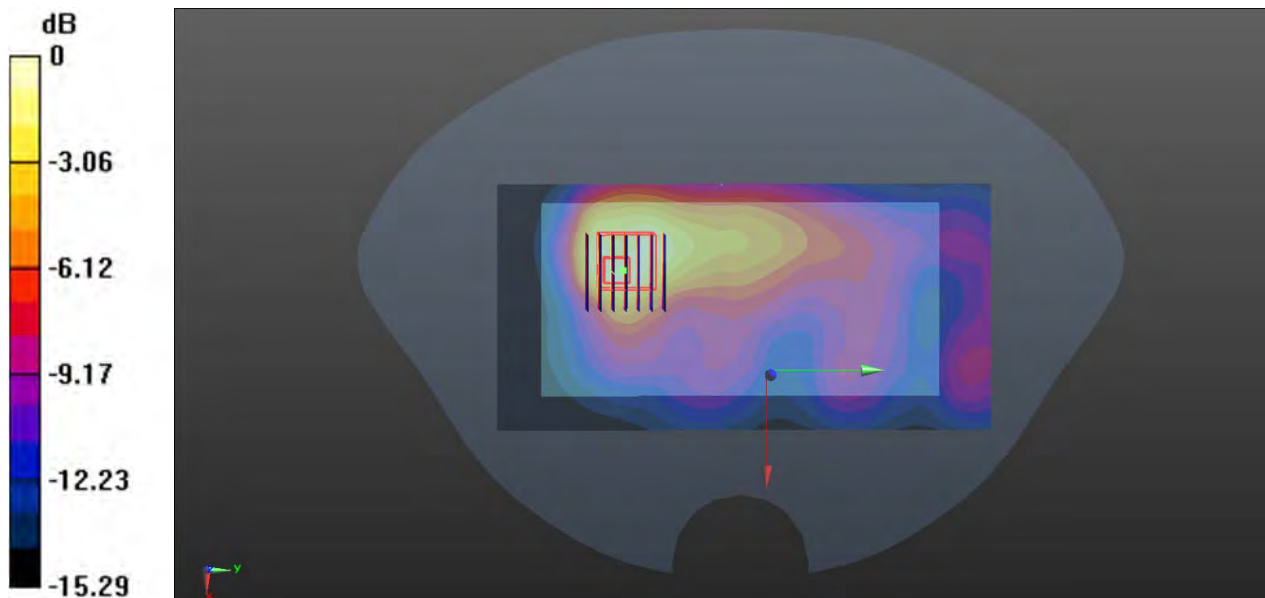
Ch38150/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.462 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.996 W/kg

SAR(1 g) = 0.365 W/kg; SAR(10 g) = 0.197 W/kg

Maximum value of SAR (measured) = 0.458 W/kg



0 dB = 0.458 W/kg

37-Right Head with Cheek on High Channel in LTE Band41 Mode with Antenna Up

Date: 2021.06.05

Communication System Band: Band 41, (2496.0 - 2690.0 MHz); Frequency: 2645 MHz; Duty Cycle: 1:1.58

Medium parameters used: $f = 2645$ MHz; $\sigma = 1.973$ S/m; $\epsilon_r = 39.671$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature: 22.5 Liquid Temperature: 21.7

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.5, 7.5, 7.5); 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; SEMCAD X Version 14.6.10 (7331)

Ch41140/Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.657 W/kg

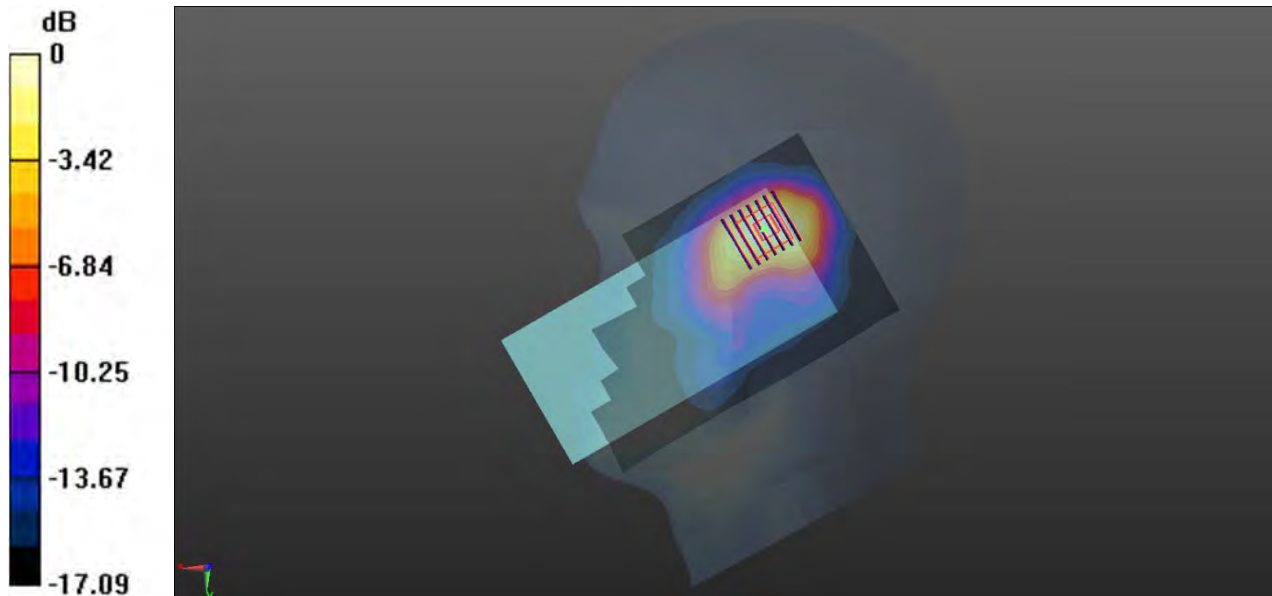
Ch41140/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.66 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.590 W/kg; SAR(10 g) = 0.280 W/kg

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



0 dB = 0.668 W/kg

38-Body Plane with Back Side 15mm on High Channel in LTE Band41 Mode with Antenna Up

Date: 2021.06.05

Communication System Band: Band 41, (2496.0 - 2690.0 MHz); Frequency: 2645 MHz; Duty Cycle: 1:1.58

Medium parameters used: $f = 2645$ MHz; $\sigma = 1.973$ S/m; $\epsilon_r = 39.671$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.5 Liquid Temperature: 21.7

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.5, 7.5, 7.5); 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; SEMCAD X Version 14.6.10 (7331)

Ch41140/Area Scan (81x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.256 W/kg

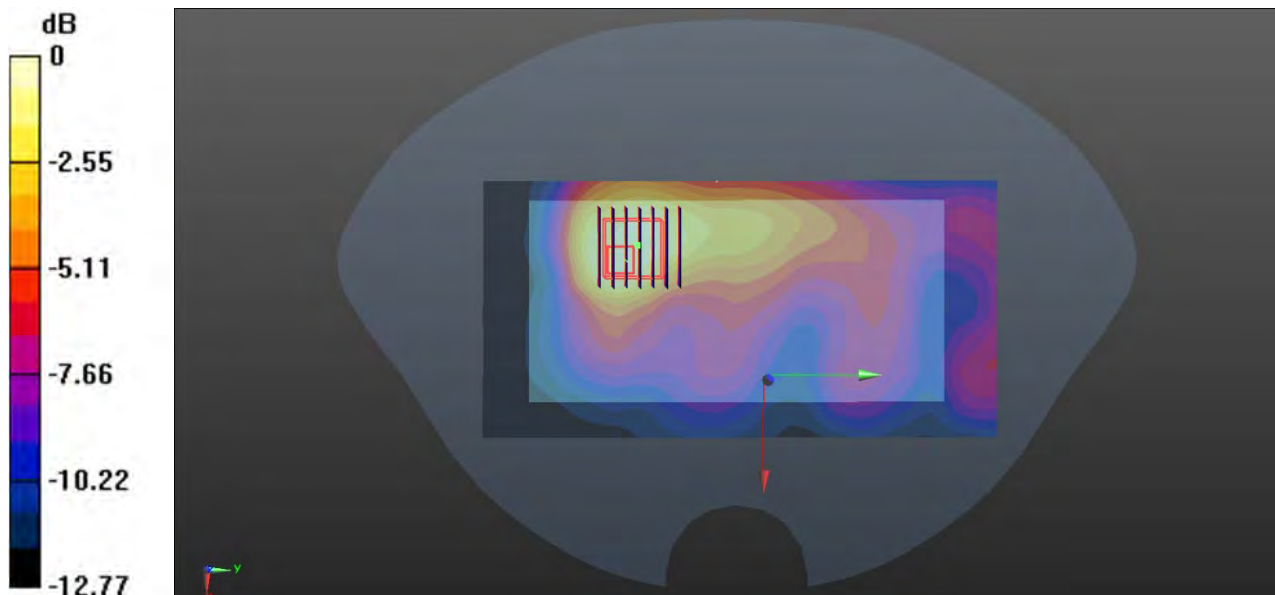
Ch41140/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.678 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.513 W/kg

SAR(1 g) = 0.235 W/kg; SAR(10 g) = 0.121 W/kg

Maximum value of SAR (measured) = 0.256 W/kg



0 dB = 0.256 W/kg

39-Body Plane with Back Side 10mm on High Channel in LTE Band41 Mode with Antenna Up

Date: 2021.06.05

Communication System Band: Band 41, (2496.0 - 2690.0 MHz); Frequency: 2645 MHz; Duty Cycle: 1:1.58

Medium parameters used: $f = 2645$ MHz; $\sigma = 1.973$ S/m; $\epsilon_r = 39.671$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.5 Liquid Temperature: 21.7

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.5, 7.5, 7.5); 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; SEMCAD X Version 14.6.10 (7331)

Ch41140/Area Scan (81x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

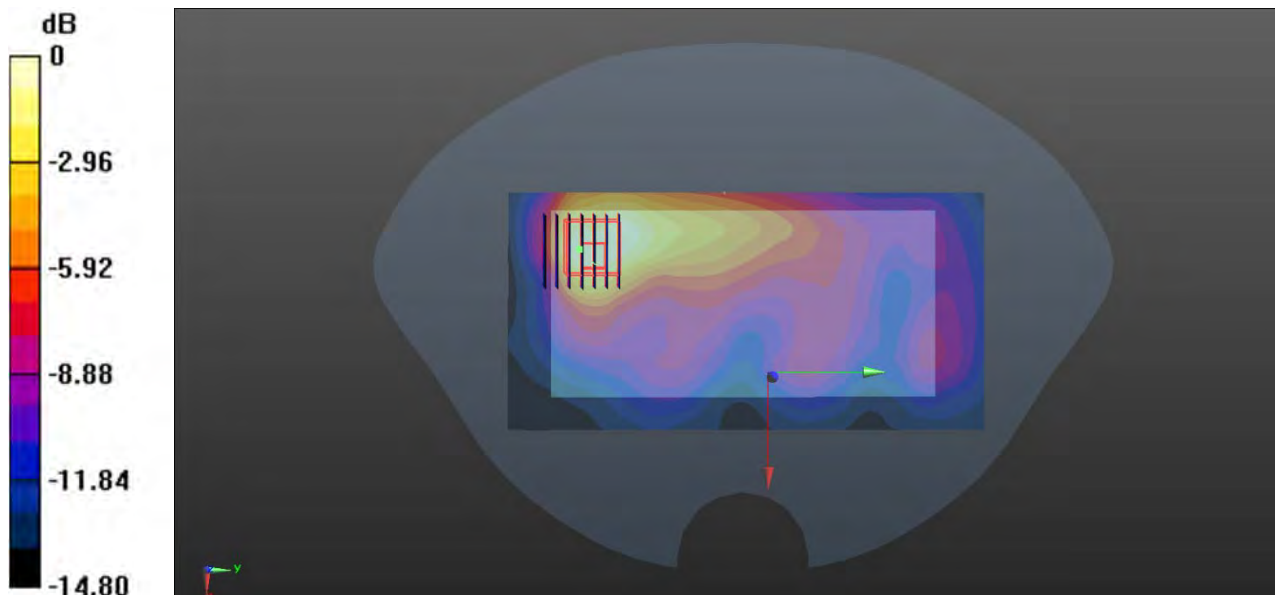
Ch41140/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.979 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.829 W/kg

SAR(1 g) = 0.344 W/kg; SAR(10 g) = 0.163 W/kg

Maximum value of SAR (measured) = 0.379 W/kg



0 dB = 0.379 W/kg

40-Left Head with Cheek on 6 Channel in IEEE802.11b mode

Date: 2021.06.03

Communication System Band: WLAN(b); Frequency: 2437 MHz; Duty Cycle: 1:1.005

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.723$ S/m; $\epsilon_r = 38.812$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature: 22.2 Liquid Temperature: 21.3

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 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch6/Area Scan (81x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.783 W/kg

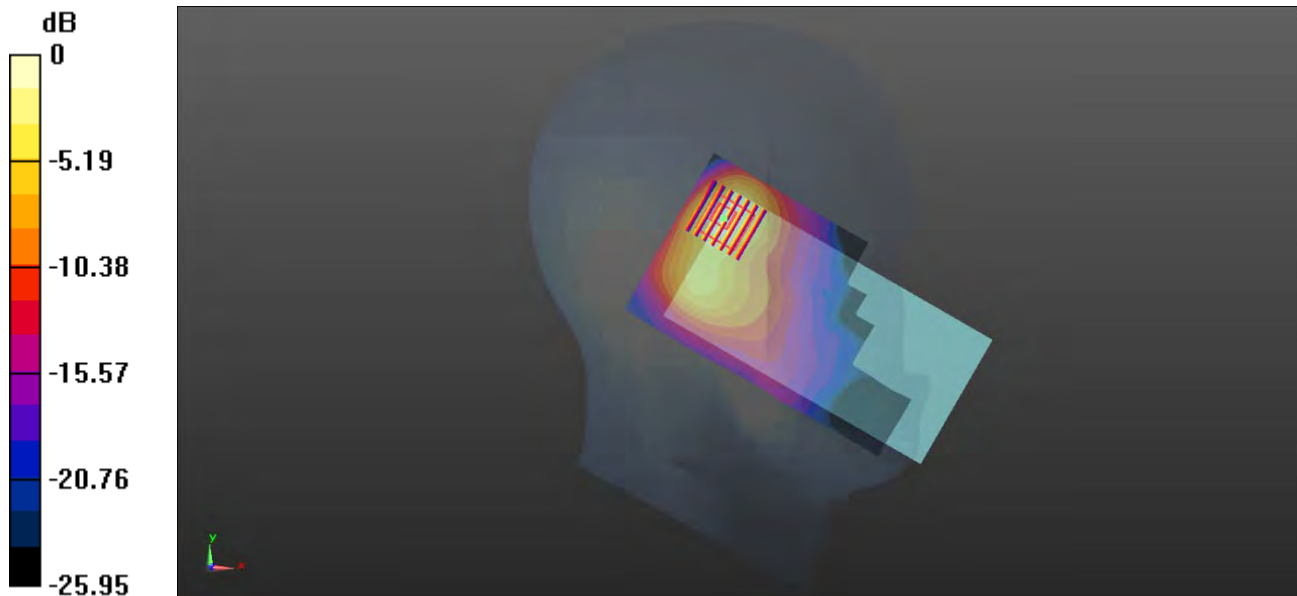
Ch6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.99 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.51 W/kg

SAR(1 g) = 0.751 W/kg; SAR(10 g) = 0.316 W/kg

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



0 dB = 0.782 W/kg

41-Body Plane with Back Side 15mm on 6 Channel in IEEE802.11b mode

Date: 2021.06.03

Communication System Band: WLAN(b); Frequency: 2437 MHz; Duty Cycle: 1:1.005

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.723$ S/m; $\epsilon_r = 38.812$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.2 Liquid Temperature: 21.3

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 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch6/Area Scan (91x151x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.223 W/kg

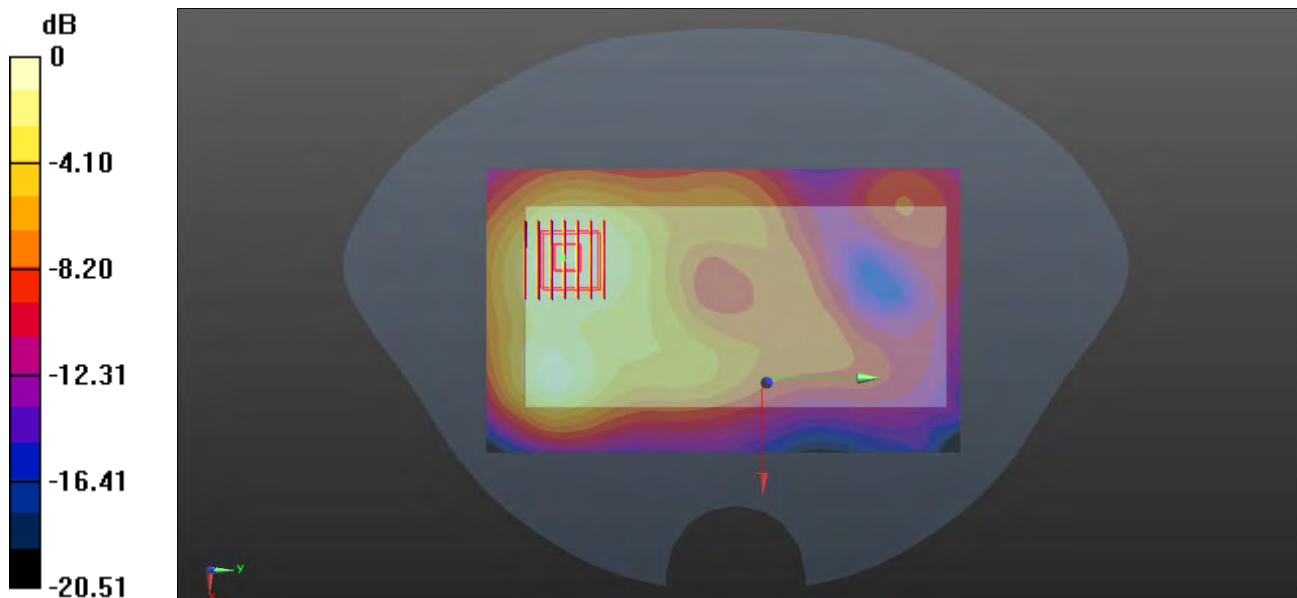
Ch6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 3.805 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.328 W/kg

SAR(1 g) = 0.202 W/kg; SAR(10 g) = 0.123 W/kg

Maximum value of SAR (measured) = 0.216 W/kg



0 dB = 0.216 W/kg

42-Body Plane with Top Edge 10mm on 11 Channel in 802.11b mode

Date: 2021.06.03

Communication System Band: WLAN(b); Frequency: 2462 MHz; Duty Cycle: 1:1.005

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.763$ S/m; $\epsilon_r = 38.584$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.2 Liquid Temperature: 21.3

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 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch11/Area Scan (51x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.141 W/kg

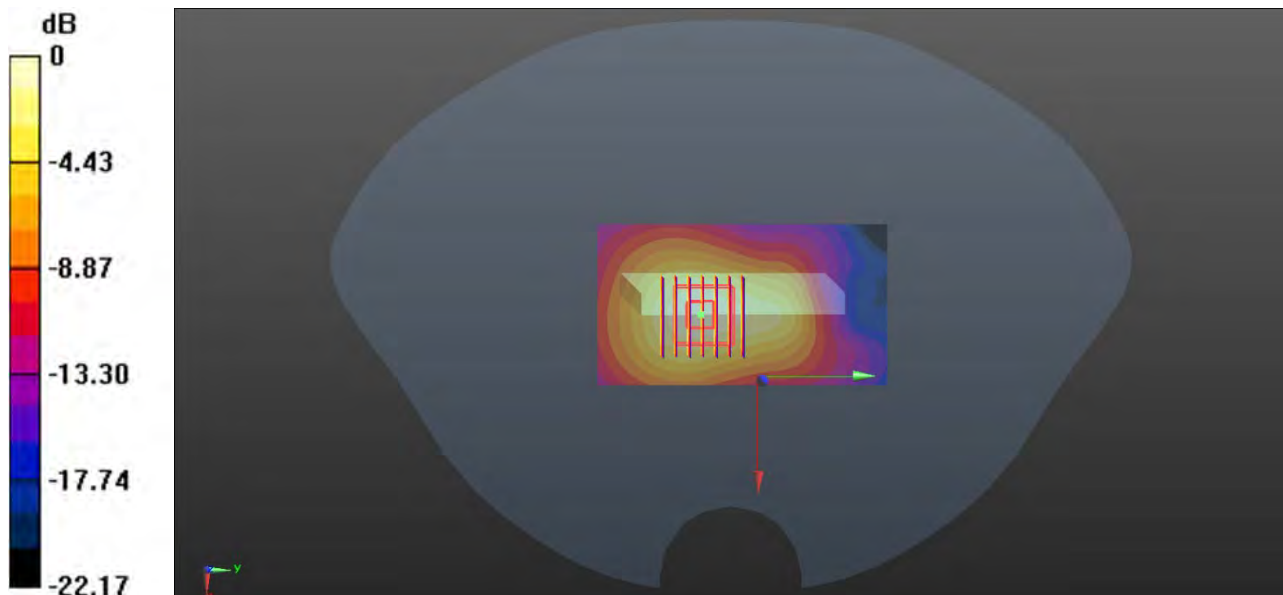
Ch11/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.498 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.244 W/kg

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

Maximum value of SAR (measured) = 0.140 W/kg



0 dB = 0.140 W/kg

43-Left Head with Tilt on 54 Channel in IEEE802.11n40 mode

Date: 2021.06.05

Communication System Band: WLAN(n)40Mhz; Frequency: 5270 MHz;Duty Cycle: 1:1.054

Medium parameters used (interpolated): $f = 5270$ MHz; $\sigma = 4.779$ S/m; $\epsilon_r = 36.429$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature:22.9 Liquid Temperature:22.0

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)

Ch54/Area Scan (101x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.66 W/kg

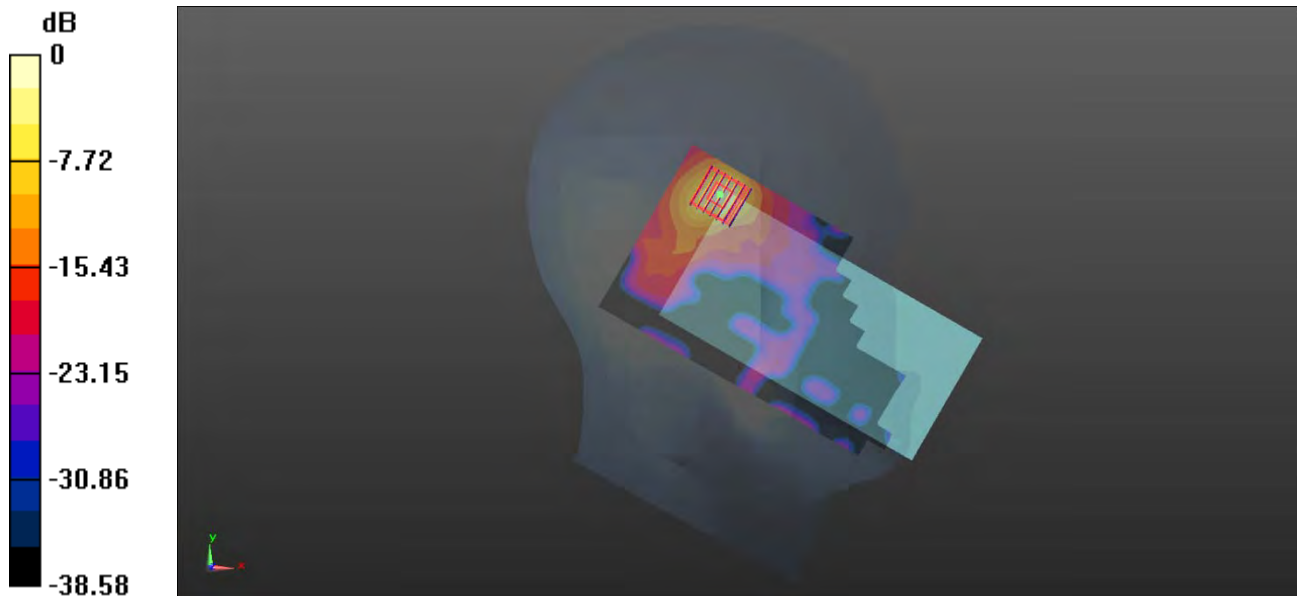
Ch54/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.138 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 4.11 W/kg

SAR(1 g) = 0.925 W/kg; SAR(10 g) = 0.238 W/kg

Maximum value of SAR (measured) = 2.04 W/kg



0 dB = 2.04 W/kg

44-Left Head with Tilt on 138 Channel in IEEE802.11ac80 mode

Date: 2021.06.13

Communication System Band: WLAN(ac)80Mhz; Frequency: 5690 MHz;Duty Cycle: 1:1.108

Medium parameters used (interpolated): $f = 5690$ MHz; $\sigma = 5.26$ S/m; $\epsilon_r = 35.7$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature:22.6 Liquid Temperature:21.7

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)

Ch138/Area Scan (101x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.29 W/kg

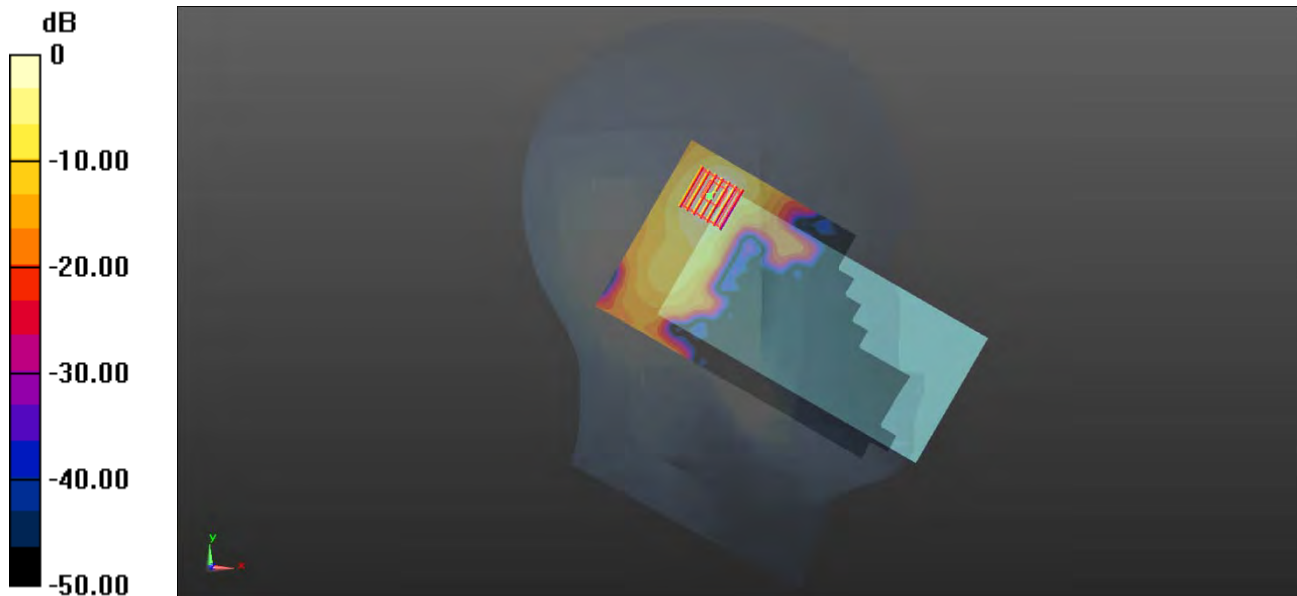
Ch138/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.953 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 3.05 W/kg

SAR(1 g) = 0.693 W/kg; SAR(10 g) = 0.217 W/kg

Maximum value of SAR (measured) = 1.32 W/kg



0 dB = 1.32 W/kg

45-Left Head with Tilt on 155 Channel in IEEE802.11ac80 mode

Date: 2021.06.07

Communication System Band: WLAN(ac)80Mhz; Frequency: 5775 MHz;Duty Cycle: 1:1.108

Medium parameters used (interpolated): $f = 5775$ MHz; $\sigma = 5.389$ S/m; $\epsilon_r = 34.59$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature:22.5 Liquid Temperature:21.3

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 (101x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.625 W/kg

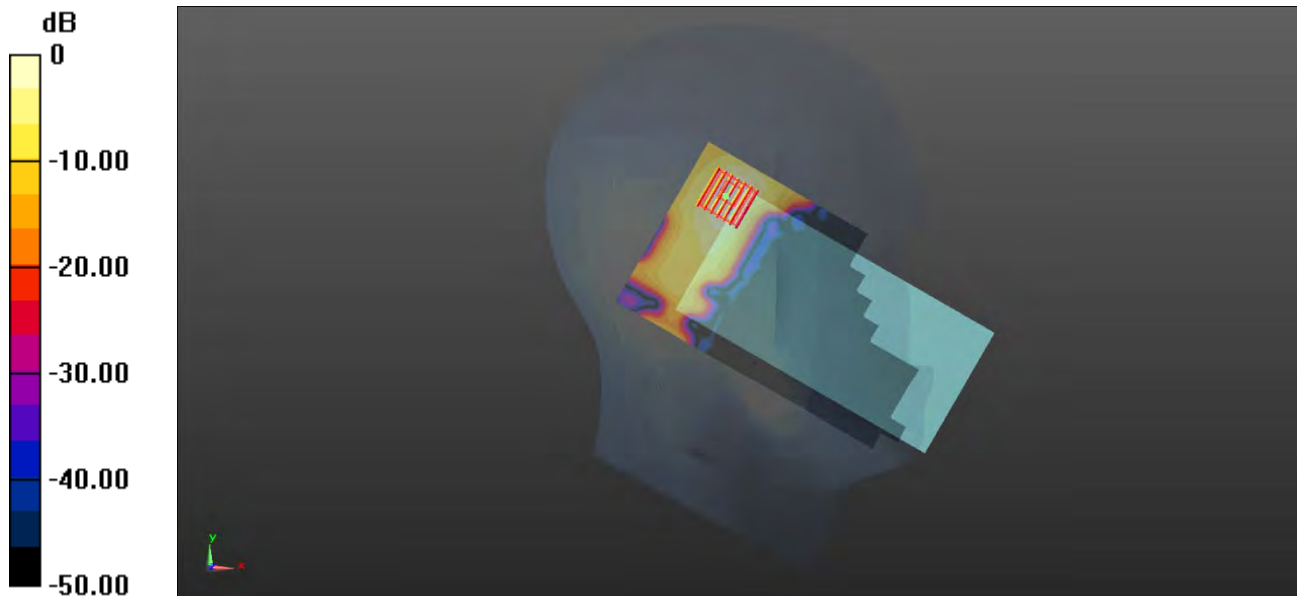
Ch155/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.586 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.40 W/kg

SAR(1 g) = 0.303 W/kg; SAR(10 g) = 0.096 W/kg

Maximum value of SAR (measured) = 0.616 W/kg



0 dB = 0.616 W/kg

46-Body Plan with Back Side 15mm on 54 Channel in IEEE802.11n40 Mode

Date: 2021.06.05

Communication System Band: WLAN(n)40Mhz; Frequency: 5270 MHz;Duty Cycle: 1:1.054

Medium parameters used (interpolated): $f = 5270$ MHz; $\sigma = 4.779$ S/m; $\epsilon_r = 36.429$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.9 Liquid Temperature:22.0

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)

Ch54/Area Scan (111x201x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.695 W/kg

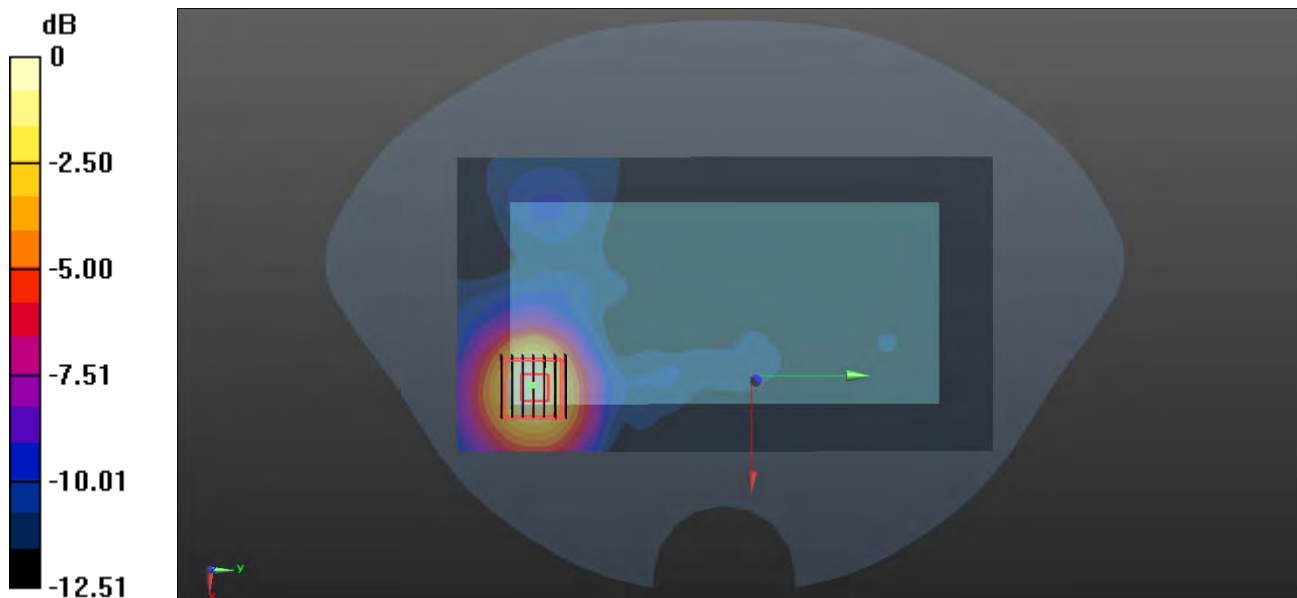
Ch54/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.866 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.376 W/kg; SAR(10 g) = 0.166 W/kg

Maximum value of SAR (measured) = 0.674 W/kg



0 dB = 0.674 W/kg

47-Body Plan with Back Side 15mm on 138 Channel in IEEE802.11ac80 Mode

Date: 2021.06.13

Communication System Band: WLAN(ac)80Mhz; Frequency: 5690 MHz;Duty Cycle: 1:1.108

Medium parameters used: $f = 5690$ MHz; $\sigma = 5.26$ S/m; $\epsilon_r = 35.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.7

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)

Ch138/Area Scan (111x201x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.723 W/kg

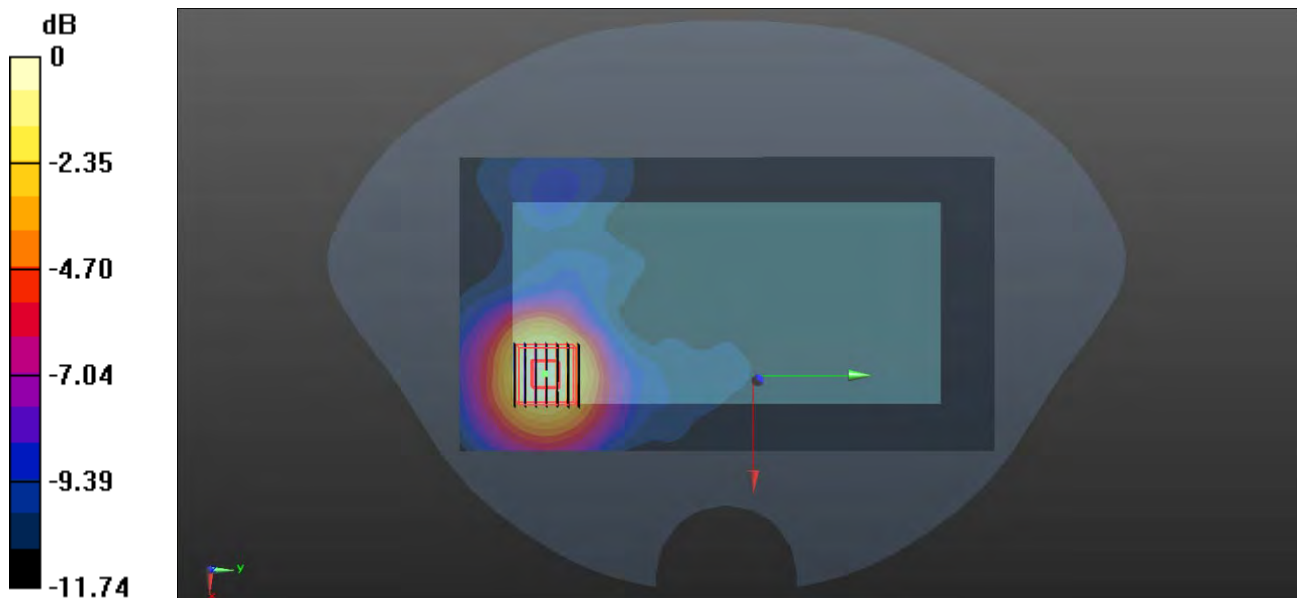
Ch138/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.150 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.383 W/kg; SAR(10 g) = 0.180 W/kg

Maximum value of SAR (measured) = 0.698 W/kg



0 dB = 0.698 W/kg

48-Body Plan with Back Side 15mm on 155 Channel in IEEE802.11ac80 Mode

Date: 2021.06.07

Communication System Band: WLAN(ac)80Mhz; Frequency: 5775 MHz;Duty Cycle: 1:1.108

Medium parameters used (interpolated): $f = 5775$ MHz; $\sigma = 5.389$ S/m; $\epsilon_r = 34.59$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.3

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) = 0.585 W/kg

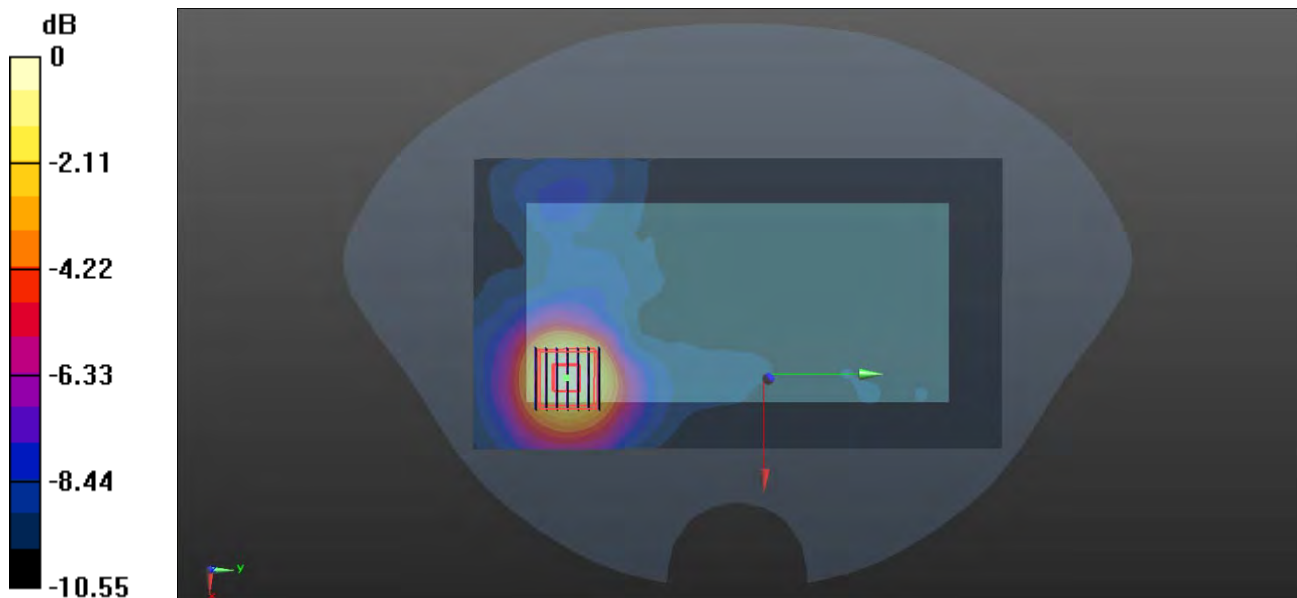
Ch155/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.173 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.982 W/kg

SAR(1 g) = 0.358 W/kg; SAR(10 g) = 0.176 W/kg

Maximum value of SAR (measured) = 0.579 W/kg



0 dB = 0.579 W/kg

49-Body Plane with Top Edge 10mm on 38 Channel in 802.11n40 mode

Date: 2021.06.05

Communication System Band: WLAN(n)40Mhz; Frequency: 5190 MHz;Duty Cycle: 1:1.054

Medium parameters used: $f = 5190$ MHz; $\sigma = 4.608$ S/m; $\epsilon_r = 36.76$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.9 Liquid Temperature:22.0

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)

Ch38/Area Scan (71x111x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.389 W/kg

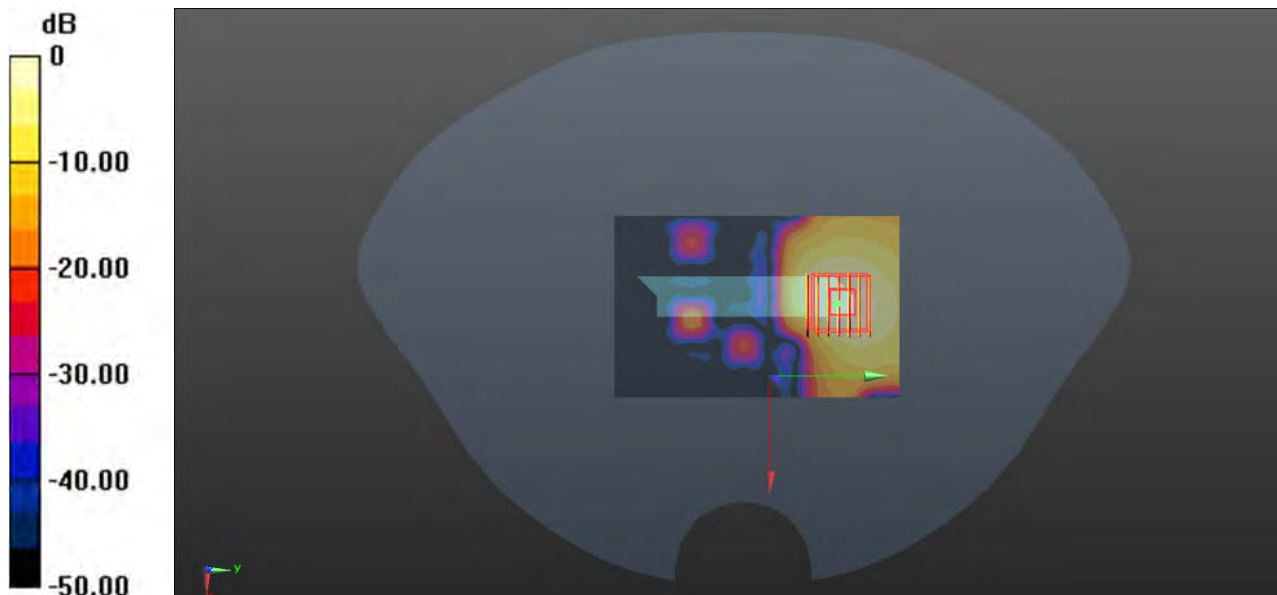
Ch38/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.676 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.694 W/kg

SAR(1 g) = 0.202 W/kg; SAR(10 g) = 0.068 W/kg

Maximum value of SAR (measured) = 0.373 W/kg



0 dB = 0.373 W/kg

50-Body Plane with Back Side 10mm on 159 Channel in 802.11n40 mode

Date: 2021.06.07

Communication System Band: WLAN(n)40Mhz; Frequency: 5795 MHz;Duty Cycle: 1:1.054

Medium parameters used: $f = 5795$ MHz; $\sigma = 5.43$ S/m; $\epsilon_r = 34.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.3

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)

Ch159/Area Scan (111x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.199 W/kg

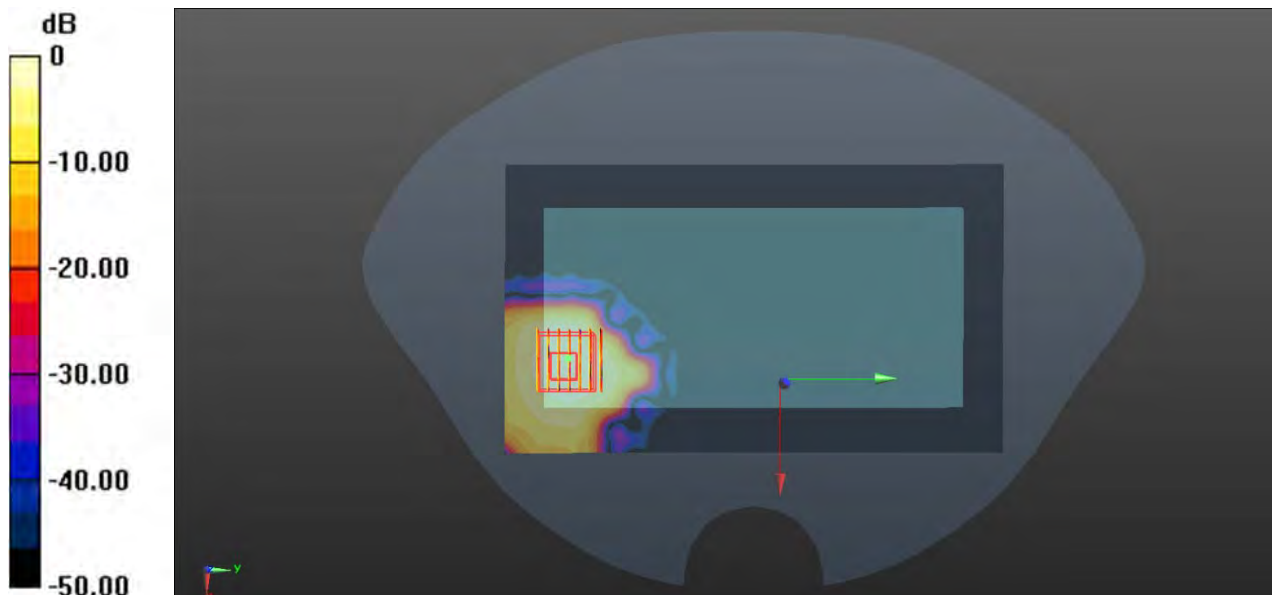
Ch159/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.381 W/kg

SAR(1 g) = 0.101 W/kg; SAR(10 g) = 0.036 W/kg

Maximum value of SAR (measured) = 0.193 W/kg



0 dB = 0.193 W/kg

51-Body Plan with Top Edge 0mm on 54 Channel in IEEE802.11n40 Mode

Date: 2021.06.05

Communication System Band: WLAN(n)40Mhz; Frequency: 5270 MHz;Duty Cycle: 1:1.054

Medium parameters used: $f = 5270$ MHz; $\sigma = 4.779$ S/m; $\epsilon_r = 36.429$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.9 Liquid Temperature:22.0

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)

Ch54/Area Scan (81x111x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 15.5 W/kg

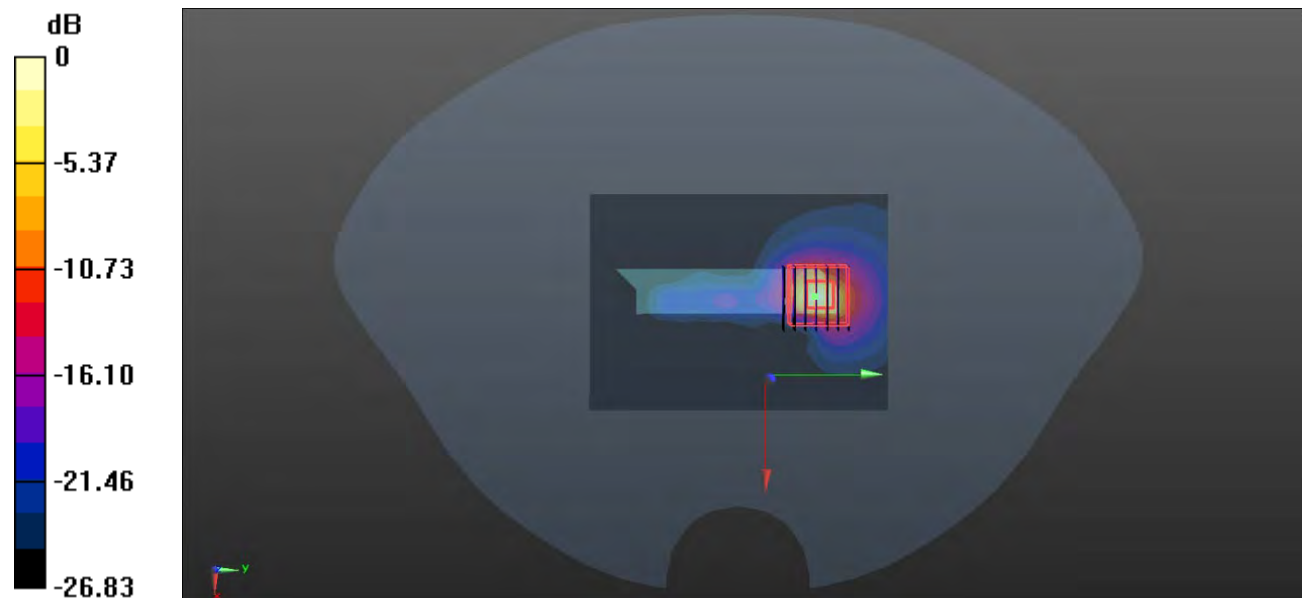
Ch54/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 5.421 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 49.7 W/kg

SAR(1 g) = 7.69 W/kg; SAR(10 g) = 1.45 W/kg

Maximum value of SAR (measured) = 19.3 W/kg



0 dB = 19.3 W/kg

52-Body Plan with Top Edge 0mm on 138 Channel in IEEE802.11ac80 Mode

Date: 2021.06.13

Communication System Band: WLAN(ac)80Mhz; Frequency: 5690 MHz;Duty Cycle: 1:1.108

Medium parameters used (interpolated): $f = 5690$ MHz; $\sigma = 5.26$ S/m; $\epsilon_r = 35.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.7

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)

Ch138/Area Scan (81x111x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 10.1 W/kg

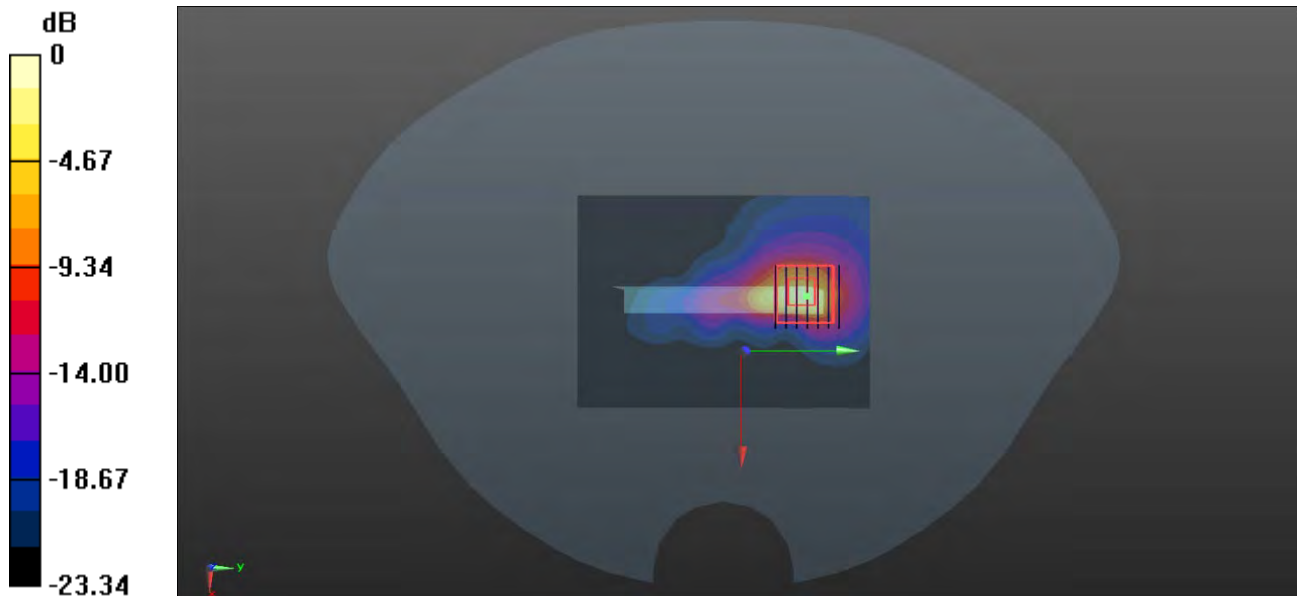
Ch138/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 8.246 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 35.1 W/kg

SAR(1 g) = 6.04 W/kg; SAR(10 g) = 1.36 W/kg

Maximum value of SAR (measured) = 12.5 W/kg



0 dB = 12.5 W/kg

53-Left Head with Cheek on 0 Channel in BT DH5 mode

Date: 2021.06.03

Communication System Band: BT; Frequency: 2402 MHz; Duty Cycle: 1:1.304

Medium parameters used: $f = 2402$ MHz; $\sigma = 1.696$ S/m; $\epsilon_r = 38.94$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature: 22.2 Liquid Temperature: 21.3

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 on left 1859; Type: QD000P40CC; Serial: TP:1859
- 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) = 0.330 W/kg

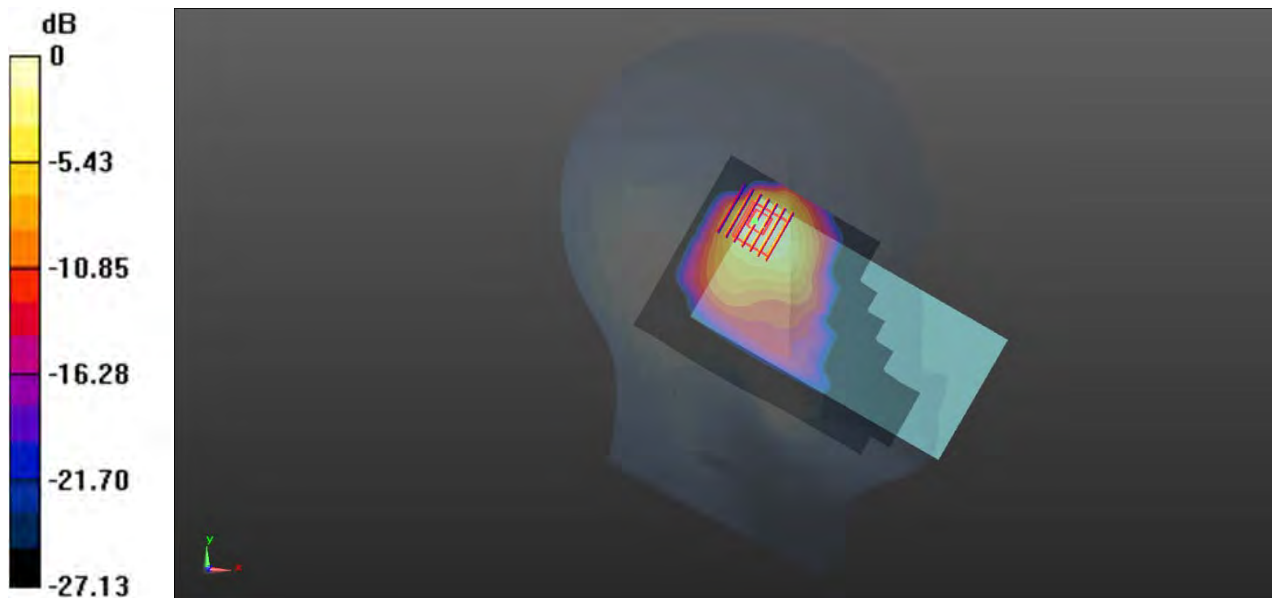
Ch0/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 5.677 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.648 W/kg

SAR(1 g) = 0.275 W/kg; SAR(10 g) = 0.130 W/kg

Maximum value of SAR (measured) = 0.305 W/kg



0 dB = 0.305 W/kg

54-Body Plane with Back Side 15mm on 0 Channel in BT DH5 mode

Date: 2021.06.03

Communication System Band: BT; Frequency: 2402 MHz; Duty Cycle: 1:1.304

Medium parameters used: $f = 2402$ MHz; $\sigma = 1.696$ S/m; $\epsilon_r = 38.94$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.2 Liquid Temperature: 21.3

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 on left 1859; Type: QD000P40CC; Serial: TP:1859
- 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) = 0.0434 W/kg

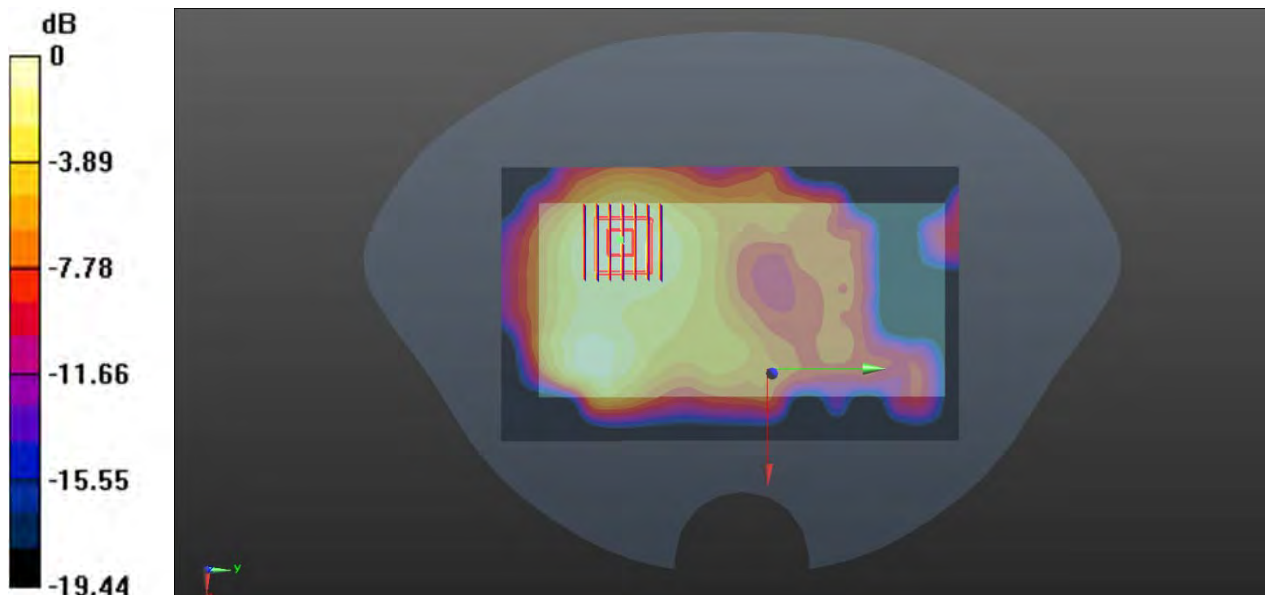
Ch0/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.205 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.0730 W/kg

SAR(1 g) = 0.041 W/kg; SAR(10 g) = 0.023 W/kg

Maximum value of SAR (measured) = 0.0443 W/kg



0 dB = 0.0443 W/kg

55-Body Plane with Top Edge 10mm on 0 Channel in BT DH5 mode

Date: 2021.06.03

Communication System Band: BT; Frequency: 2402 MHz; Duty Cycle: 1:1.304

Medium parameters used: $f = 2402$ MHz; $\sigma = 1.696$ S/m; $\epsilon_r = 38.94$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.2 Liquid Temperature: 21.3

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 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch0/Area Scan (51x91x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.109 W/kg

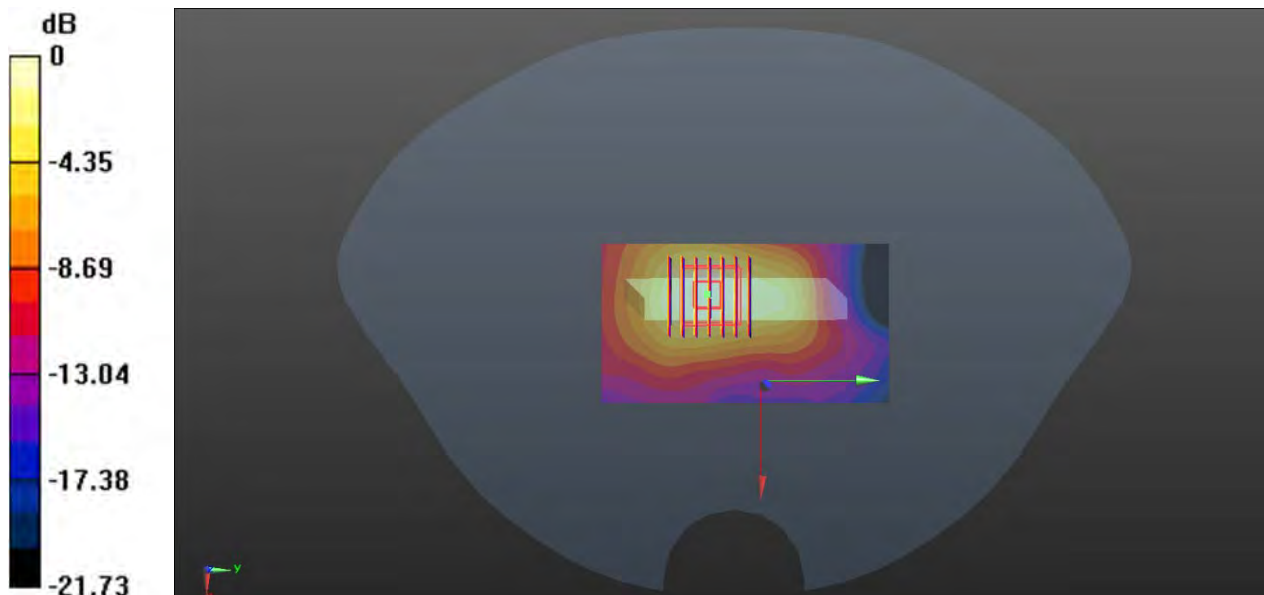
Ch0/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 6.521 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.188 W/kg

SAR(1 g) = 0.097 W/kg; SAR(10 g) = 0.050 W/kg

Maximum value of SAR (measured) = 0.108 W/kg



0 dB = 0.108 W/kg

ANNEX D EUT EXTERNAL PHOTOS

Please refer the document "BL-SZ2150983-AW.pdf".

ANNEX E SAR TEST SETUP PHOTOS

Please refer the document "BL-SZ2150983-AS.pdf".

ANNEX F CALIBRATION REPORT

Please refer the document "CALIBRATION REPORT.pdf".

--END OF REPORT--