

TEST REPORT

Applicant: Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address: NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City, Guangdong, China
Equipment Type: Mobile Phone
Model Name: CPH2385
Brand Name: OPPO
FCC ID: R9C-CPH2385
Test Standard: FCC 47 CFR Part 2.1093 (refer section 3.1)
Maximum SAR: Head (1 g): 1.18 W/kg
Body (1 g): 0.76 W/kg
Hotspot (1 g): 0.75 W/kg
Specific (10 g): 2.69 W/kg
Test Date: Mar. 04, 2022 – Mar. 31, 2022
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ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Zhang Jiwei

Checked by: Zong Liyao

Approved by: Wei Yanquan
(Chief Engineer)

Zhang Jiwei

Liyao. Zong

Wei Yanquan

Revision History

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<u>Rev. 02</u>	<u>Apr. 25, 2022</u>	<u>Add FCC ID in front page</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, 1/F, Baisha Science and Technology Park Shahe Xi Road, Nanshan District Shenzhen, Guangdong Province, People's Republic of 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, 1/F, Baisha Science and Technology Park Shahe Xi Road, Nanshan District Shenzhen, Guangdong Province, People's Republic of China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.
Description	All measurement facilities used to collect the measurement data are located at Block B, 1/F, Baisha Science and Technology Park Shahe Xi Road, Nanshan District Shenzhen, Guangdong Province, People's Republic of China

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address	NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City, Guangdong, China

2.2 Manufacturer Information

Manufacturer	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address	NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City, Guangdong, China

2.3 Factory Information

Factory	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address	NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City, Guangdong, China

2.4 General Description for Equipment under Test (EUT)

EUT Name	Mobile Phone
Model Name Under Test	CPH2385
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	11
Software Version	ColorOS V12.1
Dimensions (Approx.)	163.74x75.03x7.99mm
Weight (Approx.)	190g(with battery)
EUT ID	S07; S08; S09
IMEI Number	S07: 865356060021375
	S08: 865356060021516
	S09: 865356060020096
Note1: EUT ID is used to identify the test sample in the lab internally.	
Note2: It is performed to test SAR with the EUT S07&S08 and conducted power with the EUT S09.	

2.5 Ancillary Equipment

Ancillary Equipment 1	Li-Polymer Battery 1	
	Brand Name	SUPERVOOC
	Model No.	BLP923
	Serial No.	N/A
	Capacitance	Rated: 4880mAh/18.88Wh Typical: 5000mAh/19.35Wh
	Rated Voltage	3.87 V
	Limited Voltage	4.45 V
	Manufacturer	Dongguan NVT Technology Co., Ltd
Ancillary Equipment 2	Li-Polymer Battery 2	
	Brand Name	SUPERVOOC
	Model No.	BLP923
	Serial No.	N/A
	Capacitance	Rated: 4880mAh/18.88Wh Typical: 5000mAh/19.35Wh
	Rated Voltage	3.87V
	Limited Voltage	4.45 V
	Manufacturer	Chongqing CosMX Battery Co., Ltd.
Ancillary Equipment 3	Li-Polymer Battery 3	
	Brand Name	SUPERVOOC
	Model No.	BLP923
	Serial No.	N/A
	Capacitance	Rated: 4880mAh/18.88Wh Typical: 5000mAh/19.35Wh
	Rated Voltage	3.87V
	Limited Voltage	4.45 V
	Manufacturer	TWS Technology (Guangzhou) Limited
Ancillary Equipment 4	Li-Polymer Battery 4	
	Brand Name	SUPERVOOC
	Model No.	BLP923
	Serial No.	N/A
	Capacitance	Rated: 4880mAh/18.88Wh Typical: 5000mAh/19.35Wh
	Rated Voltage	3.87V
	Limited Voltage	4.45 V
	Manufacturer	PT. Battery Technology Indonesia
Ancillary Equipment 5	Headset	
	Model No.	MH156
	Length (Approx.)	1.2 m
Note: The EUT has four Batterys, they are same with electrical parameters, but only differ in Manufacturer and battery cell. By comparing the test data of four Batteries, battery 1 can produce a		

more conservative SAR values. The battery of the Manufacturer is Dongguan NVT Technology Co., Ltd as the main for test in this report.

2.6 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EGPRS 850/ 1900 MHz 3G Network WCDMA/HSDPA/HSUPA Band 2/ 4/ 5 4G Network FDD LTE Band 2/ 4/ 5/ 7/ 12/ 13/ 17/ 26/ 66 TDD LTE Band 38/ 41 2.4G WIFI 802.11b, 802.11g, 802.11n(20/40) and VHT20/40 5G WIFI 802.11a, 802.11n(20/40) and 802.11ac(VHT20/40) Band 1/2/3, 5.8G SRD
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, 2.4G WLAN, 5G WLAN, Bluetooth		
Frequency Range	GSM 850	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	GSM 1900	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	WCDMA Band 2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	WCDMA Band 4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	WCDMA Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	LTE Band 4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	LTE Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 7	TX: 2500 ~ 2570 MHz	RX: 2620 ~ 2690 MHz
	LTE Band 12	TX: 699 ~ 716 MHz	RX: 729 ~ 746 MHz
	LTE Band 13	TX: 777 ~ 787 MHz	RX: 746 ~ 756 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 66	TX: 1710 ~ 1780 MHz	RX: 2110 ~ 2180MHz
	LTE Band 38	TX: 2570 ~ 2620 MHz	RX: 2570 ~ 2620 MHz
	LTE Band 41	TX: 2496 ~ 2690 MHz	RX: 2496 ~ 2690 MHz
	802.11b/g /n(HT20/HT40)	2412 ~ 2462 MHz	
	802.11ac (VHT20/40)	2412 ~ 2462 MHz	
	802.11a/ /n(HT20/HT40) /ac(VHT20/VHT40 /VHT80)	5150 ~ 5250 MHz	
		5250 ~ 5350 MHz	
5470 ~ 5725 MHz			
5725 ~ 5850 MHz			
	Bluetooth	2402 ~ 2480 MHz	
Antenna Type	WWAN: PIFA Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna		

DTM	N/A	
Hotspot Function	Support	
Power Reduction	Support	
Exposure Category	General Population/Uncontrolled exposure	
EUT Stage	Portable Device	
Product	Type	
	☒ Production unit	☐ Identical prototype
Note: 1. The device utilizes independent power reduction mechanisms for SAR compliance for the 2/3/4G 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 8.8.		

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

Note: Compared with the EUT of test report BL-SZ2220363-701, the changes of the EUT of this report as below:

1. Different model name;
2. Update camera specification is 50M+2M;
3. Add the battery cover with leather material.

Therefore, only added the worst case sport check test data in section 10.19 and ANNEX A/B/C., others test data please refer to report BL-SZ2220363-701, which was issued by Shenzhen BALUN Technology Co., Ltd. on Apr. 18, 2022.

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	0.90	0.13	0.17	1.18	0.76	0.75
GSM 1900	1.16	0.22	0.43			
WCDMA Band 2	0.99	0.48	0.75			
WCDMA Band 4	1.18	0.38	0.69			
WCDMA Band 5	0.75	0.14	0.21			
LTE Band 2	0.91	0.31	0.69			
LTE Band 4	1.05	0.30	0.60			
LTE Band 5	0.60	0.15	0.15			
LTE Band 7	0.75	0.27	0.57			
LTE Band 12	0.10	0.15	0.12			
LTE Band 13	0.34	0.18	0.19			
LTE Band 26	0.89	0.14	0.14			
LTE Band 66	1.16	0.44	0.68			
LTE Band 38	1.10	0.27	0.51			
LTE Band 41	1.18	0.27	0.72			
2.4G WLAN	1.18	0.23	0.41			
5.2G WLAN	/	/	0.32			
5.3G WLAN	0.82	0.63	/			
5.6G WLAN	0.82	0.76	/			
5.8G WLAN	0.81	0.72	0.45			
Bluetooth	0.38	0.03	0.07			
Limit (W/kg)	1.6			1.6		
Verdict	PASS					

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

3.3.2 Highest Specific SAR (10 g Value)

Band	Maximum Scaled SAR (W/kg)	Maximum Report SAR (W/kg)
	Specific 10g	
5.3G WLAN	2.67	2.69
5.6G WLAN	2.69	
Limit (W/kg)	4.0	4.0
Verdict	Pass	

3.3.3 Highest Simultaneous SAR

Note: The highest simultaneous SAR please refer section 12.

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 1.18 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 2.69 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

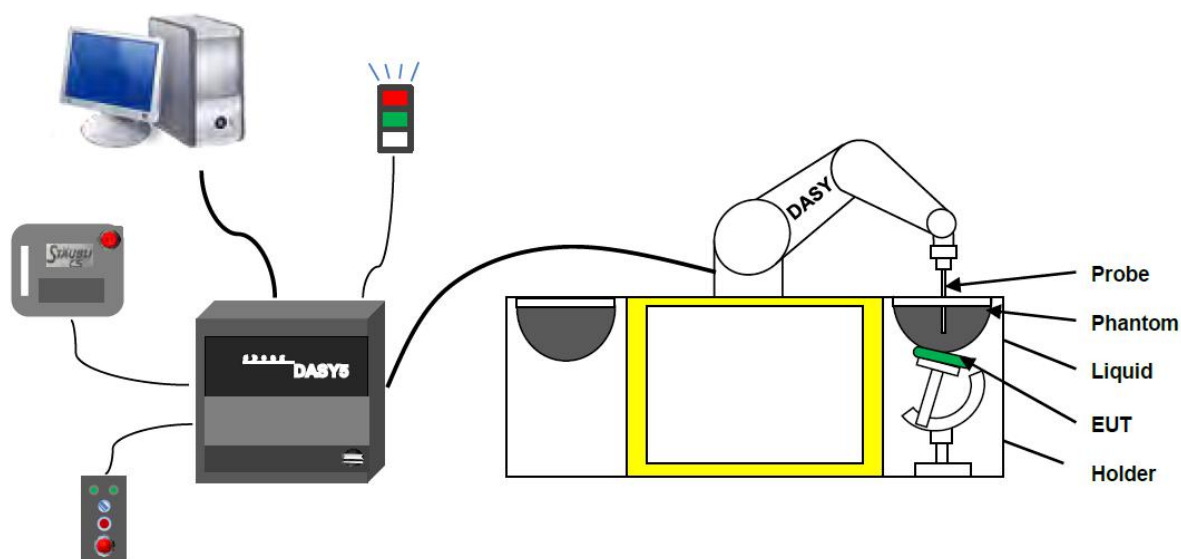
$$\text{SAR} = \frac{\sigma E^2}{\rho}$$

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 DASY5 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 DASY5 measurement server.
6. The DASY5 measurement server, which performs all real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operation.
7. DASY5 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:



- 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 construction 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-SN:7510 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-converter 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
- Common 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 SN1857



Serial Number	Material	Length	Height
SN 1857 SAM1	Vinylester, glass fiber reinforced	1000	500

4.2.6 Device Holder

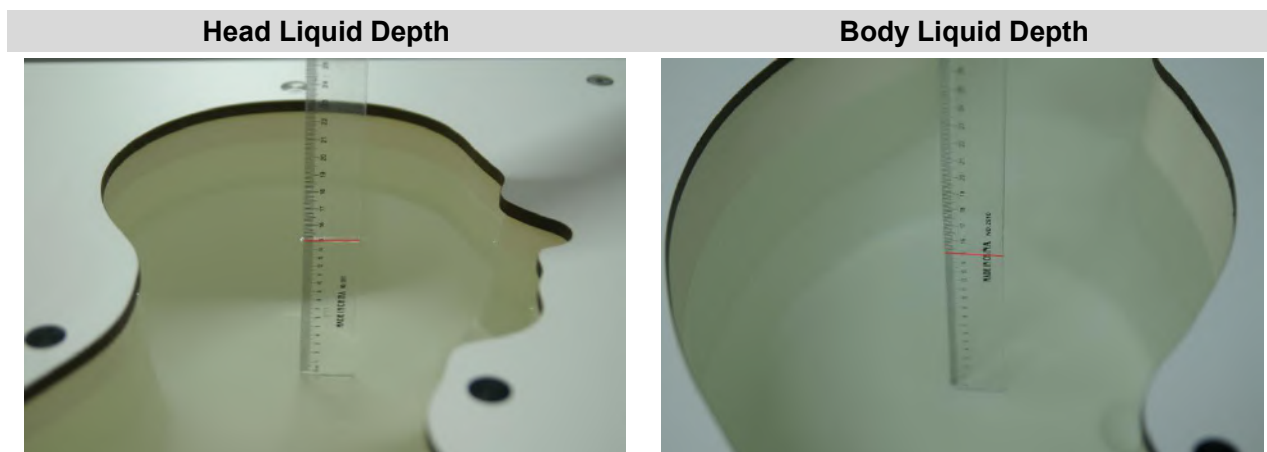
The DASY5 device holder has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of 65° . The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. This device holder is used for standard mobile phones or PDA"s only. If necessary an additional support of polystyrene material is used. Larger DUT"s (e.g. notebooks) cannot be tested using this device holder. Instead a support of bigger polystyrene cubes and thin polystyrene plates is used to position the DUT in all relevant positions to find and measure spots with maximum SAR values. Therefore those devices are normally only tested at the flat part of the SAM.



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

4.2.7 Simulating Liquid

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



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	Permittivity

		(%)	(%)	σ (S/m)	ε
5200	78.60	21.40	/	5.54	47.86
5800	78.50	21.40	0.1	6.0	48.20

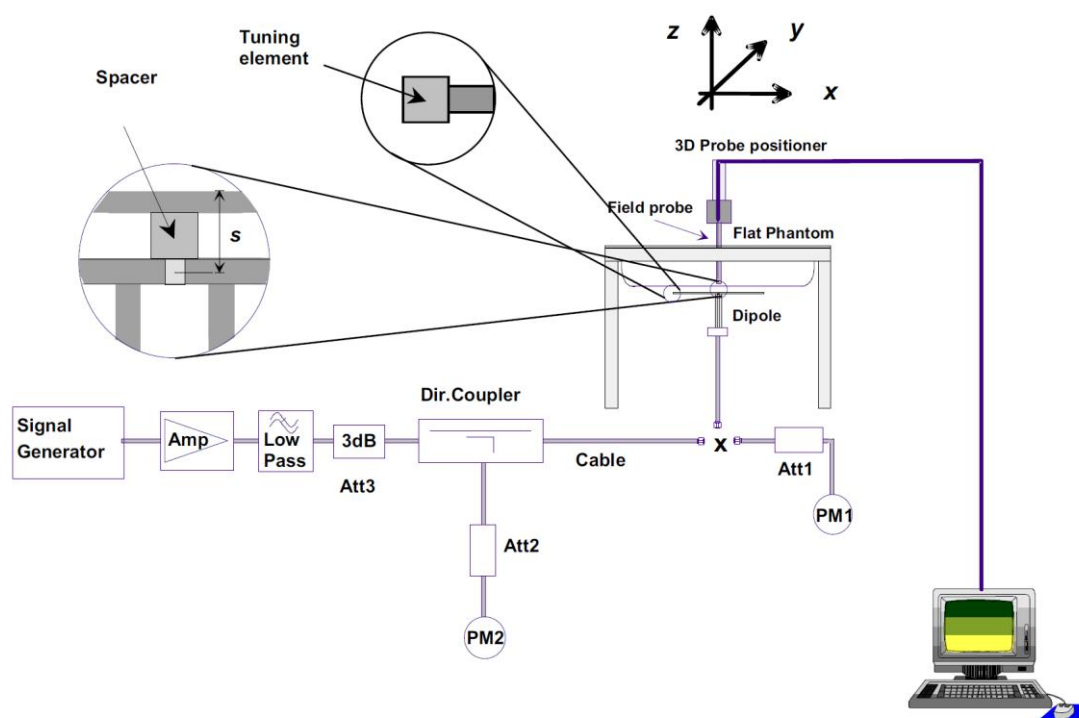
5 SYSTEM VERIFICATION

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

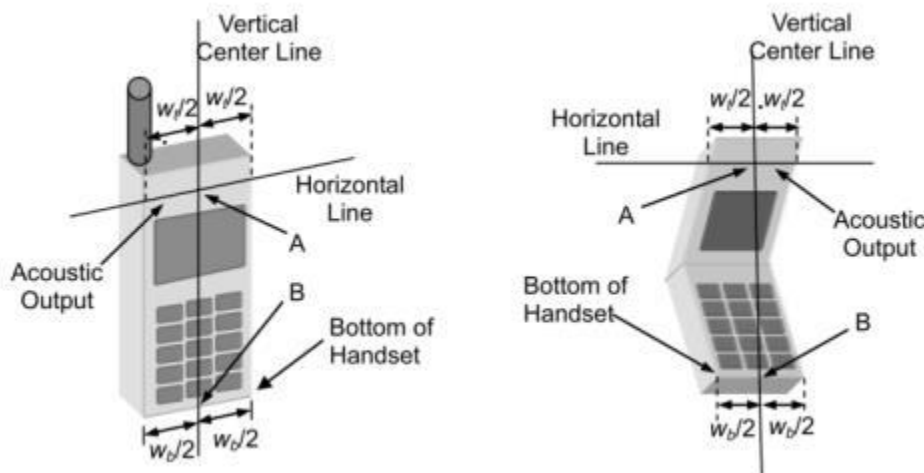
According to KDB 648474 D04 Handset, handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

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.

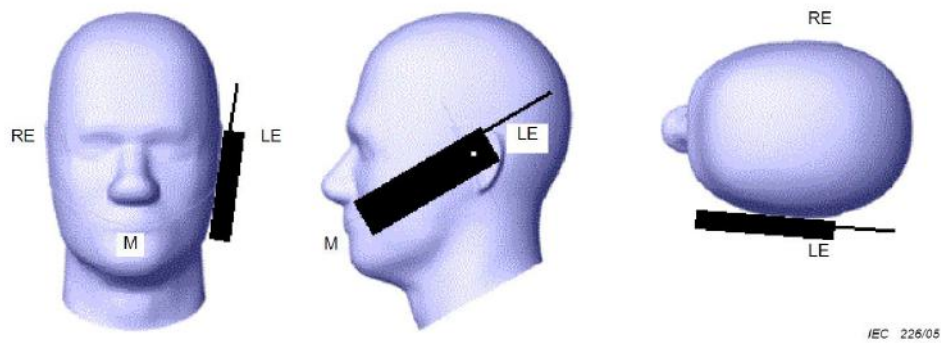
6.1.1 Two Imaginary Lines on the Handset

- 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

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

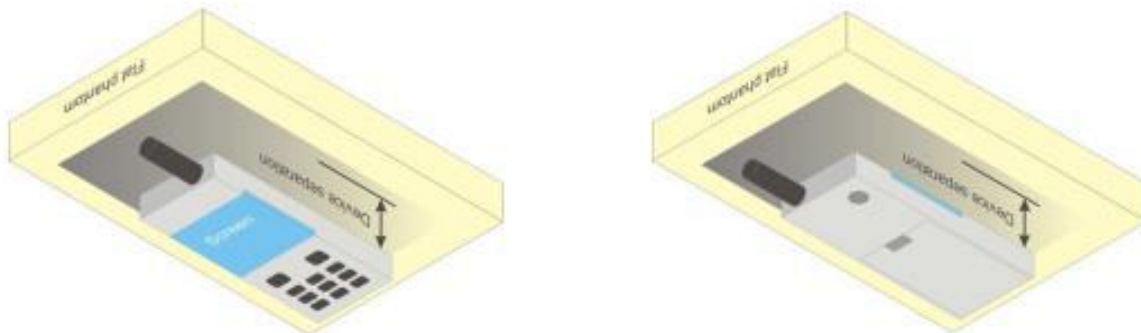


6.2 Body-worn Position Conditions

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

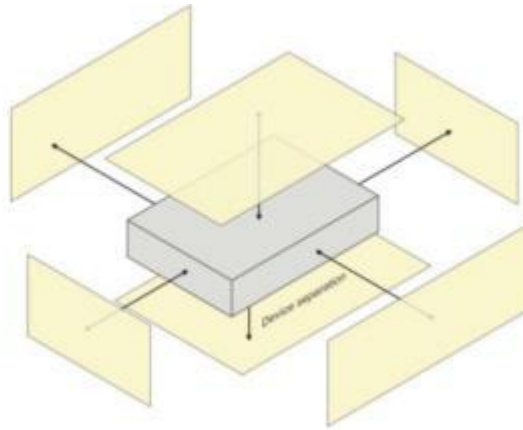
Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics.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

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



6.3 Hotspot Mode Exposure Position Conditions

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



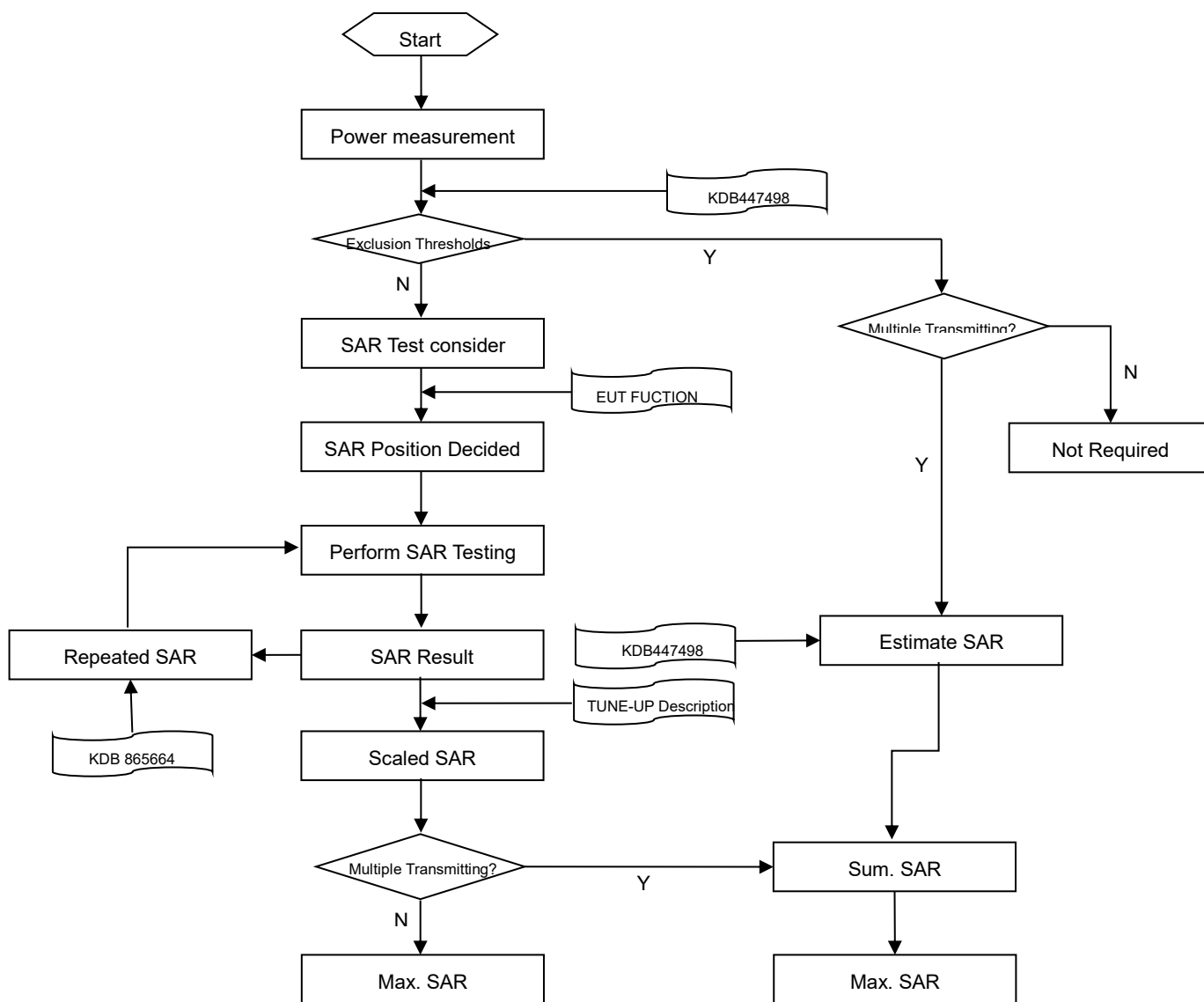
6.4 Product Specific 10g Exposure Consideration

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

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

7 MEASUREMENT PROCEDURE

7.1 Measurement Process Diagram



7.2 SAR Scan General Requirement

Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. 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	½·δ·ln(2)±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 Full Power

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	18.73	20.00	No
		6	2437	18.81	20.00	Yes
		11	2462	18.50	20.00	No
	802.11g	1	2412	17.37	19.00	No
		6	2437	17.69	19.00	No
		11	2462	17.66	19.00	No
	802.11n(HT20)	1	2412	17.68	19.00	No
		6	2437	17.67	19.00	No
		11	2462	17.67	19.00	No
	802.11n(HT40)	3	2422	16.61	18.00	No
		6	2437	16.35	18.00	No
		9	2452	16.50	18.00	No
	802.11ac(VHT20)	1	2412	16.49	18.00	No
		6	2437	16.44	18.00	No
		11	2462	16.31	18.00	No
	802.11ac(VHT40)	3	2422	16.42	18.00	No
		6	2437	16.52	18.00	No
		9	2452	16.33	18.00	No

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.

2) When multiple transmission modes (802.11b/g/n/ac) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11b is chosen over 802.11g, and 802.11g chosen over 802.11n than 802.11ac.

3) According KDB 247228, when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, OFDM SAR test is not required.

Adjusted SAR = $1.184^* (79.43\text{mW}/100.00\text{mW}) = 0.940$ W/Kg, so 2.4G OFDM SAR test is not required.

8.4.2 2.4G WIFI Level1

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	16.47	17.50	Yes
		6	2437	16.69	17.50	Yes
		11	2462	16.57	17.50	Yes

	802.11g	1	2412	16.00	17.50	No
		6	2437	16.08	17.50	No
		11	2462	15.93	17.50	No
	802.11n(HT20)	1	2412	16.06	17.50	No
		6	2437	15.94	17.50	No
		11	2462	16.22	17.50	No
	802.11n(HT40)	3	2422	15.96	17.50	No
		6	2437	16.04	17.50	No
		9	2452	15.83	17.50	No
	802.11ac(VHT20)	1	2412	15.92	17.50	No
		6	2437	15.92	17.50	No
		11	2462	16.07	17.50	No
	802.11ac(VHT40)	3	2422	15.87	17.50	No
		6	2437	16.15	17.50	No
		9	2452	15.86	17.50	No

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.

2) When multiple transmission modes (802.11b/g/n/ac) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11b is chosen over 802.11g, and 802.11g chosen over 802.11n than 802.11ac.

3) According KDB 247228, when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, OFDM SAR test is not required.

Adjusted SAR = $1.184^* (56.23\text{mW}/56.23\text{mW}) = 1.184$, so 2.4G OFDM SAR test is not required.

8.4.3 2.4G WIFI Level2

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	12.16	13.50	No
		6	2437	12.50	13.50	Yes
		11	2462	12.19	13.50	No
	802.11g	1	2412	12.02	13.50	No
		6	2437	12.01	13.50	No
		11	2462	12.13	13.50	No
	802.11n(HT20)	1	2412	11.94	13.50	No
		6	2437	12.22	13.50	No
		11	2462	12.11	13.50	No
	802.11n(HT40)	3	2422	12.05	13.50	No
		6	2437	11.93	13.50	No

	802.11ac(VHT20)	9	2452	11.88	13.50	No
		1	2412	12.21	13.50	No
		6	2437	12.20	13.50	No
		11	2462	11.92	13.50	No
	802.11ac(VHT40)	3	2422	12.20	13.50	No
		6	2437	12.20	13.50	No
		9	2452	12.01	13.50	No

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.

2) When multiple transmission modes (802.11b/g/n/ac) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11b is chosen over 802.11g, and 802.11g chosen over 802.11n than 802.11ac.

3) According KDB 247228, when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, OFDM SAR test is not required.

Adjusted SAR = $1.184 \times (22.39\text{mW}/22.39\text{mW}) = 1.184$, so 2.4G OFDM SAR test is not required.

8.4.4 2.4G WIFI Level4

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	18.73	20.00	No
		6	2437	18.81	20.00	Yes
		11	2462	18.50	20.00	No
	802.11g	1	2412	17.37	19.00	No
		6	2437	17.69	19.00	No
		11	2462	17.66	19.00	No
	802.11n(HT20)	1	2412	17.68	19.00	No
		6	2437	17.67	19.00	No
		11	2462	17.67	19.00	No
	802.11n(HT40)	3	2422	16.61	18.00	No
		6	2437	16.35	18.00	No
		9	2452	16.50	18.00	No
	802.11ac(VHT20)	1	2412	16.49	18.00	No
		6	2437	16.44	18.00	No
		11	2462	16.31	18.00	No
	802.11ac(VHT40)	3	2422	16.42	18.00	No
		6	2437	16.52	18.00	No
		9	2452	16.33	18.00	No

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power,

the test configuration is determined by applying the following steps sequentially.

1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.

2) When multiple transmission modes (802.11b/g/n/ac) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11b is chosen over 802.11g, and 802.11g chosen over 802.11n than 802.11ac.

3) According KDB 247228, when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, OFDM SAR test is not required.

Adjusted SAR = $1.184^* (79.43\text{mW}/100.00\text{mW}) = 0.940$ W/Kg, so 2.4G OFDM SAR test is not required.

8.4.5 2.4G WIFI Level5

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	17.82	19.00	No
		6	2437	17.83	19.00	Yes
		11	2462	17.56	19.00	No
	802.11g	1	2412	17.37	19.00	No
		6	2437	17.69	19.00	No
		11	2462	17.66	19.00	No
	802.11n(HT20)	1	2412	17.68	19.00	No
		6	2437	17.67	19.00	No
		11	2462	17.67	19.00	No
	802.11n(HT40)	3	2422	16.61	18.00	No
		6	2437	16.35	18.00	No
		9	2452	16.50	18.00	No
	802.11ac(VHT20)	1	2412	16.49	18.00	No
		6	2437	16.44	18.00	No
		11	2462	16.31	18.00	No
	802.11ac(VHT40)	3	2422	16.42	18.00	No
		6	2437	16.52	18.00	No
		9	2452	16.33	18.00	No

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.

2) When multiple transmission modes (802.11b/g/n/ac) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11b is chosen over 802.11g, and 802.11g chosen over 802.11n than 802.11ac.

3) According KDB 247228, when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, OFDM SAR test is not required.

Adjusted SAR = $1.184^* (79.43\text{mW}/79.43\text{mW}) = 1.184$ W/Kg, so 2.4G OFDM SAR test is not required.

8.4.6 5G WIFI Full Power

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	18.76	20.00	No
		44	5220	18.56	20.00	No
		48	5240	18.54	20.00	No
	802.11n(HT20)	36	5180	17.44	19.00	No
		44	5220	17.73	19.00	No
		48	5240	17.35	19.00	No
	802.11n(HT40)	38	5190	17.62	19.00	No
		46	5230	17.66	19.00	No
	802.11ac(VHT20)	36	5180	17.59	19.00	No
		44	5220	17.64	19.00	No
		48	5240	17.45	19.00	No
	802.11ac(VHT40)	38	5190	17.53	19.00	No
		46	5230	17.62	19.00	No
	802.11ac(VHT80)	42	5210	17.57	19.00	No
5.3 (5.25~5.35)	802.11a	52	5260	18.66	20.00	No
		60	5300	18.64	20.00	No
		64	5320	18.52	20.00	No
	802.11n(HT20)	52	5260	17.52	19.00	No
		60	5300	17.46	19.00	No
		64	5320	17.61	19.00	No
	802.11n(HT40)	54	5270	17.50	19.00	No
		62	5310	17.48	19.00	No
	802.11ac(VHT20)	52	5260	17.73	19.00	No
		60	5300	17.58	19.00	No
		64	5320	17.65	19.00	No
	802.11ac(VHT40)	54	5270	17.48	19.00	No
		62	5310	17.41	19.00	No
	802.11ac(VHT80)	58	5290	17.36	19.00	No
5.6 (5.47~5.725)	802.11a	100	5500	18.69	20.00	No
		116	5580	18.56	20.00	No
		140	5700	18.53	20.00	No
	802.11n(HT20)	100	5500	17.42	19.00	No
		116	5580	17.33	19.00	No
		140	5700	17.68	19.00	No
	802.11n(HT40)	102	5510	17.56	19.00	No
		118	5590	17.71	19.00	No

		134	5670	17.73	19.00	No
	802.11ac(VHT20)	100	5500	17.70	19.00	No
		116	5580	17.32	19.00	No
		140	5700	17.50	19.00	No
	802.11ac(VHT40)	102	5510	17.57	19.00	No
		118	5590	17.72	19.00	No
		134	5670	17.31	19.00	No
	802.11ac(VHT80)	106	5530	17.65	19.00	No
		122	5610	17.39	19.00	No
5.8 (5.725~5.850)	802.11a	149	5745	18.28	20.00	No
		157	5785	18.24	20.00	No
		165	5825	18.16	20.00	No
	802.11n(HT20)	149	5745	17.38	19.00	No
		157	5785	17.48	19.00	No
		165	5825	17.53	19.00	No
	802.11n(HT40)	151	5755	17.18	19.00	No
		159	5795	17.21	19.00	No
	802.11ac(VHT20)	149	5745	17.11	19.00	No
		157	5785	17.26	19.00	No
		165	5825	17.17	19.00	No
	802.11ac(VHT40)	151	5755	17.23	19.00	No
		159	5795	17.26	19.00	No
	802.11ac(VHT80)	155	5775	17.51	19.00	No

Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.

8.4.7 5G WIFI Level1

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	12.68	13.50	No
		44	5220	12.41	13.50	No
		48	5240	12.31	13.50	No
	802.11n(HT20)	36	5180	12.43	13.50	No
		44	5220	12.62	13.50	No
		48	5240	12.63	13.50	No
	802.11n(HT40)	38	5190	12.35	13.50	No
		46	5230	12.48	13.50	No
	802.11ac(VHT20)	36	5180	12.39	13.50	No

		44	5220	12.38	13.50	No
		48	5240	12.39	13.50	No
	802.11ac(VHT40)	38	5190	12.42	13.50	No
		46	5230	12.65	13.50	No
	802.11ac(VHT80)	42	5210	12.40	13.50	No
5.3 (5.25~5.35)	802.11a	52	5260	12.54	13.50	No
		60	5300	12.45	13.50	No
		64	5320	12.58	13.50	No
	802.11n(HT20)	52	5260	12.66	13.50	No
		60	5300	12.41	13.50	No
		64	5320	12.37	13.50	No
	802.11n(HT40)	54	5270	12.53	13.50	No
		62	5310	12.46	13.50	No
	802.11ac(VHT20)	52	5260	12.63	13.50	No
		60	5300	12.47	13.50	No
		64	5320	12.66	13.50	No
	802.11ac(VHT40)	54	5270	12.61	13.50	No
		62	5310	12.38	13.50	No
	802.11ac(VHT80)	58	5290	12.44	13.50	Yes
5.6 (5.47~5.725)	802.11a	100	5500	12.33	13.50	No
		116	5580	12.40	13.50	No
		140	5700	12.42	13.50	No
	802.11n(HT20)	100	5500	12.73	13.50	No
		116	5580	12.48	13.50	No
		140	5700	12.41	13.50	No
	802.11n(HT40)	102	5510	12.49	13.50	No
		118	5590	12.71	13.50	No
		134	5670	12.66	13.50	No
	802.11ac(VHT20)	100	5500	12.64	13.50	No
		116	5580	12.41	13.50	No
		140	5700	12.68	13.50	No
	802.11ac(VHT40)	102	5510	12.51	13.50	No
		118	5590	12.68	13.50	No
		134	5670	12.37	13.50	No
	802.11ac(VHT80)	106	5530	12.68	13.50	Yes
		122	5610	12.61	13.50	Yes
5.8 (5.725~5.850)	802.11a	149	5745	12.95	14.00	No
		157	5785	13.00	14.00	No
		165	5825	13.16	14.00	No

	802.11n(HT20)	149	5745	12.73	14.00	No
		157	5785	12.71	14.00	No
		165	5825	13.00	14.00	No
	802.11n(HT40)	151	5755	12.96	14.00	No
		159	5795	12.85	14.00	No
	802.11ac(VHT20)	149	5745	12.87	14.00	No
		157	5785	12.95	14.00	No
		165	5825	13.01	14.00	No
	802.11ac(VHT40)	151	5755	12.64	14.00	No
		159	5795	12.83	14.00	No
	802.11ac(VHT80)	155	5775	12.95	14.00	Yes

Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.

8.4.8 5G WIFI Level3

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	11.44	12.50	No
		44	5220	11.58	12.50	No
		48	5240	11.46	12.50	No
	802.11n(HT20)	36	5180	11.70	12.50	No
		44	5220	11.45	12.50	No
		48	5240	11.35	12.50	No
	802.11n(HT40)	38	5190	11.44	12.50	No
		46	5230	11.34	12.50	No
	802.11ac(VHT20)	36	5180	11.45	12.50	No
		44	5220	11.57	12.50	No
		48	5240	11.33	12.50	No
	802.11ac(VHT40)	38	5190	11.47	12.50	No
		46	5230	11.46	12.50	No
	802.11ac(VHT80)	42	5210	11.35	12.50	No
5.3 (5.25~5.35)	802.11a	52	5260	11.46	12.50	No
		60	5300	11.53	12.50	No
		64	5320	11.56	12.50	No
	802.11n(HT20)	52	5260	11.59	12.50	No
		60	5300	11.31	12.50	No
		64	5320	11.36	12.50	No
	802.11n(HT40)	54	5270	11.35	12.50	No

		62	5310	11.65	12.50	No
	802.11ac(VHT20)	52	5260	11.60	12.50	No
		60	5300	11.57	12.50	No
		64	5320	11.61	12.50	No
	802.11ac(VHT40)	54	5270	11.61	12.50	No
		62	5310	11.64	12.50	No
	802.11ac(VHT80)	58	5290	11.66	12.50	Yes
5.6 (5.47~5.725)	802.11a	100	5500	11.89	12.50	No
		116	5580	11.88	12.50	No
		140	5700	11.68	12.50	No
	802.11n(HT20)	100	5500	11.65	12.50	No
		116	5580	11.37	12.50	No
		140	5700	11.47	12.50	No
	802.11n(HT40)	102	5510	11.56	12.50	No
		118	5590	11.38	12.50	No
		134	5670	11.59	12.50	No
	802.11ac(VHT20)	100	5500	11.67	12.50	No
		116	5580	11.32	12.50	No
		140	5700	11.56	12.50	No
	802.11ac(VHT40)	102	5510	11.35	12.50	No
		118	5590	11.37	12.50	No
		134	5670	11.59	12.50	No
	802.11ac(VHT80)	106	5530	11.73	12.50	Yes
		122	5610	11.60	12.50	No
5.8 (5.725~5.850)	802.11a	149	5745	11.71	12.50	No
		157	5785	11.84	12.50	No
		165	5825	11.74	12.50	No
	802.11n(HT20)	149	5745	11.30	12.50	No
		157	5785	11.27	12.50	No
		165	5825	11.24	12.50	No
	802.11n(HT40)	151	5755	11.46	12.50	No
		159	5795	11.48	12.50	No
	802.11ac(VHT20)	149	5745	11.30	12.50	No
		157	5785	11.33	12.50	No
		165	5825	11.42	12.50	No
	802.11ac(VHT40)	151	5755	11.30	12.50	No
		159	5795	11.23	12.50	No
	802.11ac(VHT80)	155	5775	11.31	12.50	Yes

Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-

1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.

8.4.9 5G WIFI Level4

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	15.33	17.00	No
		44	5220	15.55	17.00	No
		48	5240	15.55	17.00	No
	802.11n(HT20)	36	5180	15.59	17.00	No
		44	5220	15.44	17.00	No
		48	5240	15.31	17.00	No
	802.11n(HT40)	38	5190	15.35	17.00	No
		46	5230	15.32	17.00	No
	802.11ac(VHT20)	36	5180	15.59	17.00	No
		44	5220	15.59	17.00	No
		48	5240	15.73	17.00	No
	802.11ac(VHT40)	38	5190	15.32	17.00	No
		46	5230	15.40	17.00	No
	802.11ac(VHT80)	42	5210	15.31	17.00	No
5.3 (5.25~5.35)	802.11a	52	5260	15.71	17.00	No
		60	5300	15.69	17.00	No
		64	5320	15.62	17.00	No
	802.11n(HT20)	52	5260	15.36	17.00	No
		60	5300	15.66	17.00	No
		64	5320	15.53	17.00	No
	802.11n(HT40)	54	5270	15.67	17.00	No
		62	5310	15.67	17.00	No
	802.11ac(VHT20)	52	5260	15.65	17.00	No
		60	5300	15.48	17.00	No
		64	5320	15.66	17.00	No
	802.11ac(VHT40)	54	5270	15.63	17.00	No
		62	5310	15.61	17.00	No
	802.11ac(VHT80)	58	5290	15.39	17.00	Yes
5.6 (5.47~5.725)	802.11a	100	5500	15.73	17.00	No
		116	5580	15.70	17.00	No
		140	5700	15.59	17.00	No
	802.11n(HT20)	100	5500	15.42	17.00	No
		116	5580	15.41	17.00	No
		140	5700	15.61	17.00	No

	802.11n(HT40)	102	5510	15.35	17.00	No
		118	5590	15.69	17.00	No
		134	5670	15.63	17.00	No
	802.11ac(VHT20)	100	5500	15.50	17.00	No
		116	5580	15.68	17.00	No
		140	5700	15.32	17.00	No
	802.11ac(VHT40)	102	5510	15.64	17.00	No
		118	5590	15.63	17.00	No
		134	5670	15.66	17.00	No
	802.11ac(VHT80)	106	5530	15.70	17.00	Yes
		122	5610	15.67	17.00	No
5.8 (5.725~5.850)	802.11a	149	5745	15.66	17.00	No
		157	5785	15.49	17.00	No
		165	5825	15.54	17.00	No
	802.11n(HT20)	149	5745	15.24	17.00	No
		157	5785	15.34	17.00	No
		165	5825	15.21	17.00	No
	802.11n(HT40)	151	5755	15.13	17.00	No
		159	5795	15.42	17.00	No
	802.11ac(VHT20)	149	5745	15.28	17.00	No
		157	5785	15.25	17.00	No
		165	5825	15.15	17.00	No
	802.11ac(VHT40)	151	5755	15.38	17.00	No
		159	5795	15.43	17.00	No
	802.11ac(VHT80)	155	5775	15.28	17.00	Yes
Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.						

8.4.10 5G WIFI Level6

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	12.68	13.50	No
		44	5220	12.41	13.50	No
		48	5240	12.31	13.50	No
	802.11n(HT20)	36	5180	12.43	13.50	No
		44	5220	12.62	13.50	No
		48	5240	12.63	13.50	No
	802.11n(HT40)	38	5190	12.35	13.50	No

		46	5230	12.48	13.50	No
	802.11ac(VHT20)	36	5180	12.39	13.50	No
		44	5220	12.38	13.50	No
		48	5240	12.39	13.50	No
	802.11ac(VHT40)	38	5190	12.42	13.50	No
		46	5230	12.65	13.50	No
	802.11ac(VHT80)	42	5210	12.40	13.50	Yes
5.3 (5.25~5.35)	802.11a	52	5260	12.54	13.50	No
		60	5300	12.45	13.50	No
		64	5320	12.58	13.50	No
	802.11n(HT20)	52	5260	12.66	13.50	No
		60	5300	12.41	13.50	No
		64	5320	12.37	13.50	No
	802.11n(HT40)	54	5270	12.53	13.50	No
		62	5310	12.46	13.50	No
	802.11ac(VHT20)	52	5260	12.63	13.50	No
		60	5300	12.47	13.50	No
		64	5320	12.66	13.50	No
	802.11ac(VHT40)	54	5270	12.61	13.50	No
		62	5310	12.38	13.50	No
	802.11ac(VHT80)	58	5290	12.44	13.50	Yes
5.6 (5.47~5.725)	802.11a	100	5500	12.33	13.50	No
		116	5580	12.40	13.50	No
		140	5700	12.42	13.50	No
	802.11n(HT20)	100	5500	12.73	13.50	No
		116	5580	12.48	13.50	No
		140	5700	12.41	13.50	No
	802.11n(HT40)	102	5510	12.49	13.50	No
		118	5590	12.71	13.50	No
		134	5670	12.66	13.50	No
	802.11ac(VHT20)	100	5500	12.64	13.50	No
		116	5580	12.41	13.50	No
		140	5700	12.68	13.50	No
	802.11ac(VHT40)	102	5510	12.51	13.50	No
		118	5590	12.68	13.50	No
		134	5670	12.37	13.50	No
	802.11ac(VHT80)	106	5530	12.68	13.50	Yes
		122	5610	12.61	13.50	No
5.8	802.11a	149	5745	12.43	13.50	No

(5.725~5.850)		157	5785	12.52	13.50	No
		165	5825	12.61	13.50	No
	802.11n(HT20)	149	5745	12.23	13.50	No
		157	5785	12.13	13.50	No
		165	5825	12.45	13.50	No
	802.11n(HT40)	151	5755	12.45	13.50	No
		159	5795	12.32	13.50	No
	802.11ac(VHT20)	149	5745	12.28	13.50	No
		157	5785	12.47	13.50	No
		165	5825	12.54	13.50	No
	802.11ac(VHT40)	151	5755	12.10	13.50	No
		159	5795	12.34	13.50	No
	802.11ac(VHT80)	155	5775	12.41	13.50	Yes

Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.

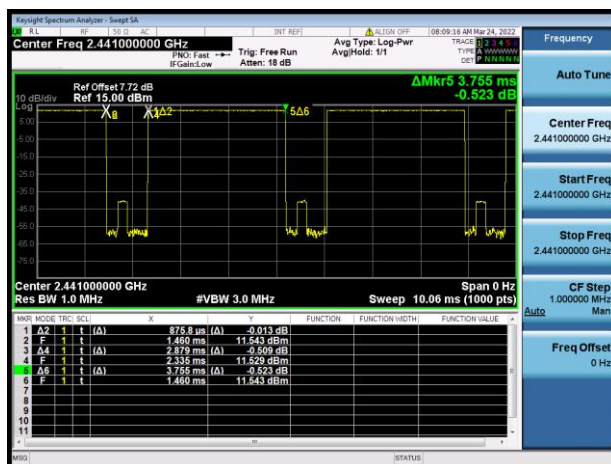
8.5 Bluetooth

Mode	GFSK			$\pi/4$ -DQPSK		
Channel	0	39	78	0	39	78
Frequency (MHz)	2402	2441	2480	2402	2441	2480
Average Power (dBm)	10.03	11.55	10.21	8.81	9.72	8.65
Tune-Up Limit (dBm)	13.50	13.50	13.50	11.00	11.00	11.00
SAR Test Require	No	Yes	No	No	No	No
Mode	8-DPSK			/		
Channel	0	39	78	/	/	/
Frequency (MHz)	2402	2441	2480	/	/	/
Average Power (dBm)	8.32	9.80	8.42	/	/	/
Tune-Up Limit (dBm)	11.00	11.00	11.00	/	/	/
SAR Test Require	No	No	No	/	/	/
Mode	BLE-1Mbps			BLE-2Mbps		
Channel	0	19	39	0	19	39
Frequency (MHz)	2402	2440	2480	2402	2440	2480
Average Power (dBm)	5.16	6.25	5.21	5.28	6.35	5.35
Tune-Up Limit (dBm)	8.00	8.00	8.00	8.00	8.00	8.00
SAR Test Require	No	No	No	No	No	No

The Bluetooth duty cycle is 77 % as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 100%, therefore the actual duty cycle will be scaled up to 100% for Bluetooth reported SAR calculation.

Duty Cycle Test plots

GFSK



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 Reduced power level table

Reduced level	Receiver state	Transmitting	Antenna	Power reduced bands
		conditions		
Level1	On (head scenario)	WWAN Use Only	Ant.0	/
			Ant.1	GSM850/1900
				WCDMA B2/4/5
				LTE B2/4/5/7/26/66/38/41
Level2	On (head scenario)	WWAN+WLAN 2.4G	Ant.0	/
			Ant.1	GSM850/1900
				WCDMA B2/4/5
				LTE B2/4/5/7/26/66/38/41
Level3	On (head scenario)	WWAN+WLAN 5G	Ant.0	/
			Ant.1	GSM850/1900
				WCDMA B2/4/5
				LTE B2/4/5/7/26/66/38/41
Level4	Off (Body-worn/ Extremit scenario)	WWAN Use Only	Ant.0	GSM1900
				WCDMA B2/4
				LTE B2/4/7/66
			Ant.1	/
				WCDMA B2/4
				LTE B2/4/7/66/38/41
Level5	Off (Body-	WWAN+WLAN 2.4G	Ant.0	GSM850/1900
				WCDMA B2/4/5
				LTE B2/4/5/7/12/17/26/66

	worn/Hotspot/ Extremit scenario)		Ant.1	GSM850/1900
				WCDMA B2/4
				LTE B2/4/5/7/26/66/38/41
Level6	Off (Body- worn/Hotspot/ Extremit scenario)	WWAN+WLAN 5G	Ant.0	GSM850/1900
				WCDMA B2/4/5
				LTE B2/4/5/7/12/17/26/66
			Ant.1	GSM850/1900
				WCDMA B2/4
				LTE B2/4/5/7/26/66/38/41

WWAN Power table

Mode	Antenna	WWAN Antenna								
		Full Power	Receiver on			Receiver off				
			Head			Body-Worn&Extremit			Hotspot	
			Standalone	Simultaneous transmission		Standalone	Simultaneous transmission		Simultaneous transmission	
				+WLAN 2.4G	+WLAN 5G		+WLAN 2.4G	+WLAN 5G	+WLAN 2.4G	+WLAN 5G
		Off	Level1	Level2	Level3	Level4	Level5	Level6	Level5	Level6
GSM 850	Ant0	33.50	33.50	33.50	33.50	33.50	32.50	32.50	32.50	32.50
GPRS850 1 Tx Slot	Ant0	33.50	33.50	33.50	33.50	33.50	32.50	32.50	32.50	32.50
GPRS850 2 Tx Slots	Ant0	31.00	31.00	31.00	31.00	31.00	30.00	30.00	30.00	30.00
GPRS850 3 Tx Slots	Ant0	29.00	29.00	29.00	29.00	29.00	28.00	28.00	28.00	28.00
GPRS850 4 Tx Slots	Ant0	28.00	28.00	28.00	28.00	28.00	27.00	27.00	27.00	27.00
EGPRS850 1 Tx Slot	Ant0	28.00	28.00	28.00	28.00	28.00	27.00	27.00	27.00	27.00
EGPRS850 2 Tx Slots	Ant0	26.00	26.00	26.00	26.00	26.00	25.00	25.00	25.00	25.00
EGPRS850 3 Tx Slots	Ant0	24.00	24.00	24.00	24.00	24.00	23.00	23.00	23.00	23.00
EGPRS850 4 Tx Slots	Ant0	23.50	23.50	23.50	23.50	23.50	22.50	22.50	22.50	22.50
GSM 850	Ant1	33.20	32.20	30.70	30.70	33.20	32.20	32.20	32.20	32.20
GPRS850 1 Tx Slot	Ant1	33.20	32.20	30.70	30.70	33.20	32.20	32.20	32.20	32.20
GPRS850 2 Tx Slots	Ant1	30.70	29.70	28.20	28.20	30.70	29.70	29.70	29.70	29.70
GPRS850 3 Tx Slots	Ant1	28.70	27.70	26.20	26.20	28.70	27.70	27.70	27.70	27.70
GPRS850 4 Tx Slots	Ant1	27.70	26.70	25.20	25.20	27.70	26.70	26.70	26.70	26.70
EGPRS850 1 Tx Slot	Ant1	27.70	26.70	25.20	25.20	27.70	26.70	26.70	26.70	26.70
EGPRS850 2 Tx Slots	Ant1	25.70	24.70	23.20	23.20	25.70	24.70	24.70	24.70	24.70

EGPRS850 3 Tx Slots	Ant1	23.70	22.70	21.20	21.20	23.70	22.70	22.70	22.70	22.70
EGPRS850 4 Tx Slots	Ant1	23.20	22.20	20.70	20.70	23.20	22.20	22.20	22.20	22.20
GSM 1900	Ant0	30.50	30.50	30.50	30.50	30.50	30.50	30.50	30.50	30.50
GPRS1900 1 Tx Slot	Ant0	30.50	30.50	30.50	30.50	30.50	30.50	30.50	30.50	30.50
GPRS1900 2 Tx Slots	Ant0	28.00	28.00	28.00	28.00	28.00	28.00	28.00	28.00	28.00
GPRS1900 3 Tx Slots	Ant0	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00
GPRS1900 4 Tx Slots	Ant0	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00
EGPRS1900 1 Tx Slot	Ant0	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00
EGPRS1900 2 Tx Slots	Ant0	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00
EGPRS1900 3 Tx Slots	Ant0	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00
EGPRS1900 4 Tx Slots	Ant0	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50
GSM 1900	Ant1	30.20	27.20	25.70	25.70	29.20	28.20	28.20	28.20	28.20
GPRS1900 1 Tx Slot	Ant1	30.20	27.20	25.70	25.70	29.20	28.20	28.20	28.20	28.20
GPRS1900 2 Tx Slots	Ant1	27.70	26.70	23.20	23.20	26.70	25.70	25.70	25.70	25.70
GPRS1900 3 Tx Slots	Ant1	25.70	24.70	21.20	21.20	24.70	23.70	23.70	23.70	23.70
GPRS1900 4 Tx Slots	Ant1	24.70	23.70	20.20	20.20	23.70	22.70	22.70	22.70	22.70
EGPRS1900 1 Tx Slot	Ant1	26.70	25.70	22.20	22.20	25.70	24.70	24.70	24.70	24.70
EGPRS1900 2 Tx Slots	Ant1	24.70	23.70	20.20	20.20	23.70	22.70	22.70	22.70	22.70
EGPRS1900 3 Tx Slots	Ant1	22.70	21.70	18.20	18.20	21.70	20.70	20.70	20.70	20.70
EGPRS1900 4 Tx Slots	Ant1	22.20	21.20	17.70	17.70	21.20	20.20	20.20	20.20	20.20
WCDMA Band2 RMC	Ant0	24.00	24.00	24.00	24.00	22.50	21.50	21.50	21.50	21.50
HSDPA Subtest-1	Ant0	22.80	22.80	22.80	22.80	21.30	20.30	20.30	20.30	20.30
HSDPA Subtest-2	Ant0	22.80	22.80	22.80	22.80	21.30	20.30	20.30	20.30	20.30
HSDPA Subtest-3	Ant0	22.20	22.20	22.20	22.20	20.70	19.70	19.70	19.70	19.70
HSDPA Subtest-4	Ant0	22.20	22.20	22.20	22.20	20.70	19.70	19.70	19.70	19.70
HSUPA Subtest-1	Ant0	22.50	22.50	22.50	22.50	21.00	20.00	20.00	20.00	20.00
HSUPA Subtest-2	Ant0	22.00	22.00	22.00	22.00	20.50	19.50	19.50	19.50	19.50
HSUPA Subtest-3	Ant0	23.00	23.00	23.00	23.00	21.50	20.50	20.50	20.50	20.50
HSUPA Subtest-4	Ant0	21.50	21.50	21.50	21.50	20.00	19.00	19.00	19.00	19.00
HSUPA Subtest-5	Ant0	23.00	23.00	23.00	23.00	21.50	20.50	20.50	20.50	20.50
WCDMA Band2 RMC	Ant1	23.70	17.70	16.20	16.20	21.20	19.70	19.70	19.70	19.70
HSDPA Subtest-1	Ant1	22.50	16.50	15.00	15.00	20.00	18.50	18.50	18.50	18.50
HSDPA Subtest-2	Ant1	22.50	16.50	15.00	15.00	20.00	18.50	18.50	18.50	18.50
HSDPA Subtest-3	Ant1	21.90	15.90	14.40	14.40	19.40	17.90	17.90	17.90	17.90

HSDPA Subtest-4	Ant1	21.90	15.90	14.40	14.40	19.40	17.90	17.90	17.90	17.90
HSUPA Subtest-1	Ant1	22.20	16.20	14.70	14.70	19.70	18.20	18.20	18.20	18.20
HSUPA Subtest-2	Ant1	21.70	15.70	14.20	14.20	19.20	17.70	17.70	17.70	17.70
HSUPA Subtest-3	Ant1	22.70	16.70	15.20	15.20	20.20	18.70	18.70	18.70	18.70
HSUPA Subtest-4	Ant1	21.20	15.20	13.70	13.70	18.70	17.20	17.20	17.20	17.20
HSUPA Subtest-5	Ant1	22.70	16.70	15.20	15.20	20.20	18.70	18.70	18.70	18.70
WCDMA Band4 RMC	Ant0	24.00	24.00	24.00	24.00	23.00	21.50	21.50	21.50	21.50
HSDPA Subtest-1	Ant0	22.80	22.80	22.80	22.80	21.80	20.30	20.30	20.30	20.30
HSDPA Subtest-2	Ant0	22.80	22.80	22.80	22.80	21.80	20.30	20.30	20.30	20.30
HSDPA Subtest-3	Ant0	22.20	22.20	22.20	22.20	21.20	19.70	19.70	19.70	19.70
HSDPA Subtest-4	Ant0	22.20	22.20	22.20	22.20	21.20	19.70	19.70	19.70	19.70
HSUPA Subtest-1	Ant0	22.50	22.50	22.50	22.50	21.50	20.00	20.00	20.00	20.00
HSUPA Subtest-2	Ant0	22.00	22.00	22.00	22.00	21.00	19.50	19.50	19.50	19.50
HSUPA Subtest-3	Ant0	23.00	23.00	23.00	23.00	22.00	20.50	20.50	20.50	20.50
HSUPA Subtest-4	Ant0	21.50	21.50	21.50	21.50	20.50	19.00	19.00	19.00	19.00
HSUPA Subtest-5	Ant0	23.00	23.00	23.00	23.00	22.00	20.50	20.50	20.50	20.50
WCDMA Band4 RMC	Ant1	23.70	18.70	17.20	17.20	21.70	20.20	20.20	20.20	20.20
HSDPA Subtest-1	Ant1	22.50	17.50	16.00	16.00	20.50	19.00	19.00	19.00	19.00
HSDPA Subtest-2	Ant1	22.50	17.50	16.00	16.00	20.50	19.00	19.00	19.00	19.00
HSDPA Subtest-3	Ant1	21.90	16.90	15.40	15.40	19.90	18.40	18.40	18.40	18.40
HSDPA Subtest-4	Ant1	21.90	16.90	15.40	15.40	19.90	18.40	18.40	18.40	18.40
HSUPA Subtest-1	Ant1	22.20	17.20	15.70	15.70	20.20	18.70	18.70	18.70	18.70
HSUPA Subtest-2	Ant1	21.70	16.70	15.20	15.20	19.70	18.20	18.20	18.20	18.20
HSUPA Subtest-3	Ant1	22.70	17.70	16.20	16.20	20.70	19.20	19.20	19.20	19.20
HSUPA Subtest-4	Ant1	21.20	16.20	14.70	14.70	19.20	17.70	17.70	17.70	17.70
HSUPA Subtest-5	Ant1	22.70	17.70	16.20	16.20	20.70	19.20	19.20	19.20	19.20
WCDMA Band5 RMC	Ant0	25.00	25.00	25.00	25.00	25.00	23.50	23.50	23.50	23.50
HSDPA Subtest-1	Ant0	23.80	23.80	23.80	23.80	23.80	22.30	22.30	22.30	22.30
HSDPA Subtest-2	Ant0	23.80	23.80	23.80	23.80	23.80	22.30	22.30	22.30	22.30
HSDPA Subtest-3	Ant0	23.20	23.20	23.20	23.20	23.20	21.70	21.70	21.70	21.70
HSDPA Subtest-4	Ant0	23.20	23.20	23.20	23.20	23.20	21.70	21.70	21.70	21.70
HSUPA Subtest-1	Ant0	23.50	23.50	23.50	23.50	23.50	22.00	22.00	22.00	22.00
HSUPA Subtest-2	Ant0	23.00	23.00	23.00	23.00	23.00	21.50	21.50	21.50	21.50
HSUPA Subtest-3	Ant0	24.00	24.00	24.00	24.00	24.00	22.50	22.50	22.50	22.50

HSUPA Subtest-4	Ant0	22.50	22.50	22.50	22.50	22.50	21.00	21.00	21.00	21.00
HSUPA Subtest-5	Ant0	24.00	24.00	24.00	24.00	24.00	22.50	22.50	22.50	22.50
WCDMA Band5 RMC	Ant1	24.70	22.70	21.20	21.20	24.70	24.70	24.70	24.70	24.70
HSDPA Subtest-1	Ant1	23.50	21.50	20.00	20.00	23.50	23.50	23.50	23.50	23.50
HSDPA Subtest-2	Ant1	23.50	21.50	20.00	20.00	23.50	23.50	23.50	23.50	23.50
HSDPA Subtest-3	Ant1	22.90	20.90	19.40	19.40	22.90	22.90	22.90	22.90	22.90
HSDPA Subtest-4	Ant1	22.90	20.90	19.40	19.40	22.90	22.90	22.90	22.90	22.90
HSUPA Subtest-1	Ant1	23.20	21.20	19.70	19.70	23.20	23.20	23.20	23.20	23.20
HSUPA Subtest-2	Ant1	22.70	20.70	19.20	19.20	22.70	22.70	22.70	22.70	22.70
HSUPA Subtest-3	Ant1	23.70	21.70	20.20	20.20	23.70	23.70	23.70	23.70	23.70
HSUPA Subtest-4	Ant1	22.20	20.20	18.70	18.70	22.20	22.20	22.20	22.20	22.20
HSUPA Subtest-5	Ant1	23.70	21.70	20.20	20.20	23.70	23.70	23.70	23.70	23.70
LTE Band2	Ant0	24.00	24.00	24.00	24.00	22.50	21.50	21.50	21.50	21.50
LTE Band2	Ant1	23.70	18.20	16.70	16.70	21.70	20.20	20.20	20.20	20.20
LTE Band4	Ant0	23.50	23.50	23.50	23.50	23.00	21.50	21.50	21.50	21.50
LTE Band4	Ant1	23.20	19.20	17.70	17.70	21.70	20.20	20.20	20.20	20.20
LTE Band5	Ant0	25.00	25.00	25.00	25.00	25.00	23.50	23.50	23.50	23.50
LTE Band5	Ant1	24.70	23.20	21.70	21.70	24.70	24.70	24.70	24.70	24.70
LTE Band7	Ant0	23.80	23.80	23.80	23.80	22.80	21.30	21.30	21.30	21.30
LTE Band7	Ant1	23.40	15.90	14.40	14.40	19.40	18.40	18.40	18.40	18.40
LTE Band12	Ant0	24.00	24.00	24.00	24.00	24.00	23.00	23.00	23.00	23.00
LTE Band12	Ant1	23.70	23.70	23.70	23.70	23.70	23.70	23.70	23.70	23.70
LTE Band13	Ant0	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50
LTE Band13	Ant1	24.20	24.20	24.20	24.20	24.20	24.20	24.20	24.20	24.20
LTE Band17	Ant0	24.00	24.00	24.00	24.00	24.00	23.00	23.00	23.00	23.00
LTE Band17	Ant1	23.70	23.70	23.70	23.70	23.70	23.70	23.70	23.70	23.70
LTE Band26	Ant0	24.50	24.50	24.50	24.50	24.50	23.50	23.50	23.50	23.50
LTE Band26	Ant1	24.20	23.20	22.20	22.20	24.20	24.20	24.20	24.20	24.20
LTE Band66	Ant0	23.80	23.80	23.80	23.80	23.30	21.80	21.80	21.80	21.80
LTE Band66	Ant1	23.60	19.10	18.10	18.10	22.10	20.60	20.60	20.60	20.60
LTE Band38	Ant0	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00
LTE Band38	Ant1	23.70	18.70	17.70	17.70	22.70	20.70	20.70	20.70	20.70
LTE Band41	Ant0	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00
LTE Band41	Ant1	23.70	18.70	17.20	17.20	22.70	21.70	21.70	21.70	21.70

WLAN Reduced power level table

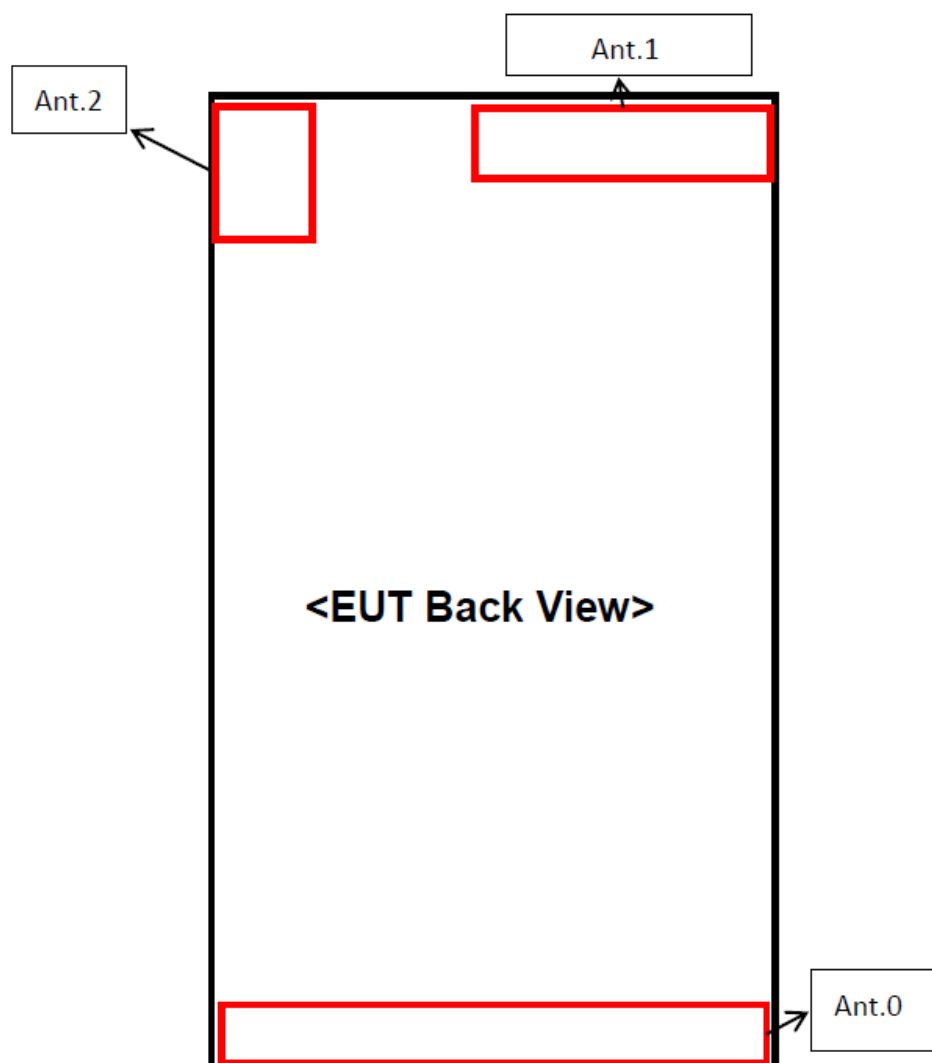
Reduced level	Receiver state	Transmitting	Antenna	Power reduced bands
		conditions		
Level 1	On (head scenario)	WLAN Use Only	Ant.2	WiFi 2.4G
				WiFi 5.2G/5.3G/5.6G/5.8G
Level 2	On (head scenario)	WWAN + WLAN 2.4G	Ant.2	WiFi 2.4G
				WiFi 5.2G/5.3G/5.6G/5.8G
Level 3	On (head scenario)	WWAN + WLAN 5G	Ant.2	WiFi 2.4G
				WiFi 5.2G/5.3G/5.6G/5.8G
Level 4	Off (Body-worn / Extremit scenario)	WLAN Use Only	Ant.2	/
				WiFi 5.2G/5.3G/5.6G/5.8G
Level 5	Off (Body-worn/Hotspot/ Extremit scenario)	WWAN + WLAN 2.4G	Ant.2	WiFi 2.4G
				WiFi 5.2G/5.3G/5.6G/5.8G
Level 6	Off (Body-worn/Hotspot/ Extremit scenario)	WWAN + WLAN 5G	Ant.2	WiFi 2.4G
				WiFi 5.2G/5.3G/5.6G/5.8G

WLAN Reduced power level table

Mode	WLAN Antenna								
	Full Power	Receiver on			Receiver off				
		Head			Body-Worn&Extremit			Hotspot	
		Standalone	Simultaneous transmission		Standalone	Simultaneous transmission		Simultaneous transmission	
			WWAN + WLAN 2.4G	WWAN + WLAN 5G		WWAN + WLAN 2.4G	WWAN + WLAN 5G	WWAN + WLAN 2.4G	WWAN + WLAN 5G
	Off	Level1	Level2	Level3	Level4	Level5	Level6	Level5	Level6
2.4G WLAN 802.11b	20.00	17.50	13.50	/	20.00	19.00	/	19.00	/
2.4G WLAN 802.11g	19.00	17.50	13.50	/	19.00	19.00	/	19.00	/
2.4G WLAN 802.11n20	19.00	17.50	13.50	/	19.00	19.00	/	19.00	/
2.4G WLAN 802.11n40	18.00	17.50	13.50	/	18.00	18.00	/	18.00	/
2.4G WLAN 802.11ac20	18.00	17.50	13.50	/	18.00	18.00	/	18.00	/
2.4G WLAN 802.11ac40	18.00	17.50	13.50	/	18.00	18.00	/	18.00	/
5.2G WLAN 802.11a	20.00	13.50	/	12.50	17.00	/	13.50	/	13.50
5.2G WLAN 802.11n20	19.00	13.50	/	12.50	17.00	/	13.50	/	13.50
5.2G WLAN 802.11n40	19.00	13.50	/	12.50	17.00	/	13.50	/	13.50

5.2G WLAN 802.11ac20	19.00	13.50	/	12.50	17.00	/	13.50	/	13.50
5.2G WLAN 802.11ac40	19.00	13.50	/	12.50	17.00	/	13.50	/	13.50
5.2G WLAN 802.11ac80	19.00	13.50	/	12.50	17.00	/	13.50	/	13.50
5.3G WLAN 802.11a	20.00	13.50	/	12.50	17.00	/	13.50	/	/
5.3G WLAN 802.11n20	19.00	13.50	/	12.50	17.00	/	13.50	/	/
5.3G WLAN 802.11n40	19.00	13.50	/	12.50	17.00	/	13.50	/	/
5.3G WLAN 802.11ac20	19.00	13.50	/	12.50	17.00	/	13.50	/	/
5.3G WLAN 802.11ac40	19.00	13.50	/	12.50	17.00	/	13.50	/	/
5.3G WLAN 802.11ac80	19.00	13.50	/	12.50	17.00	/	13.50	/	/
5.6G WLAN 802.11a	20.00	13.50	/	12.50	17.00	/	13.50	/	/
5.6G WLAN 802.11n20	19.00	13.50	/	12.50	17.00	/	13.50	/	/
5.6G WLAN 802.11n40	19.00	13.50	/	12.50	17.00	/	13.50	/	/
5.6G WLAN 802.11ac20	19.00	13.50	/	12.50	17.00	/	13.50	/	/
5.6G WLAN 802.11ac40	19.00	13.50	/	12.50	17.00	/	13.50	/	/
5.6G WLAN 802.11ac80	19.00	13.50	/	12.50	17.00	/	13.50	/	/
5.8G WLAN 802.11a	20.00	14.00	/	12.50	17.00	/	13.50	/	13.50
5.8G WLAN 802.11n20	19.00	14.00	/	12.50	17.00	/	13.50	/	13.50
5.8G WLAN 802.11n40	19.00	14.00	/	12.50	17.00	/	13.50	/	13.50
5.8G WLAN 802.11ac20	19.00	14.00	/	12.50	17.00	/	13.50	/	13.50
5.8G WLAN 802.11ac40	19.00	14.00	/	12.50	17.00	/	13.50	/	13.50
5.8G LAN 802.11ac80	19.00	14.00	/	12.50	17.00	/	13.50	/	13.50
Bluetooth	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50

9 TEST EXCLUSION CONSIDERATION



Antenna	Description	Support Bands
Antenna 0	2/3/4G TX Antenna	GSM: 850/1900 WCDMA: B2/4/5 LTE: B2/4/5/7/12/13/17/26/66/38/41
Antenna 1	2/3/4G TX Antenna	GSM: 850/1900 WCDMA: B2/4/5 LTE: B2/4/5/7/12/13/17/26/66/38/41
Antenna 2	2.4G/5G TX Antenna Bluetooth TX Antenna	2.4G/5G WLAN Bluetooth
Note1: 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)
Ant.0	<25	<25	<25	<25	>25	<25
Ant.1	<25	<25	>25	<25	<25	>25
Ant.2	<25	<25	<25	>25	<25	>25
Note: 1.Per KDB 941225 DO6,When the overall length and width of a device is > 9 cm *5 cm, a test separation distance of 10 mm is required for hotspot mode SAR measurements and hotspot mode SAR is measured for all edges and surfaces of the device with a transmitting antenna located within 25 mm from that surface or edge.						

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 :

ANT 0

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	>25mm	<5mm
	Data	33.50	2238.72	Yes	Yes	Yes	Yes	No	Yes
GSM 1900	Distance to User			<5mm	<5mm	<5mm	<5mm	>25mm	<5mm
	Data	30.50	1122.02	Yes	Yes	Yes	Yes	No	Yes
WCDMA Band 2	Distance to User			<5mm	<5mm	<5mm	<5mm	>25mm	<5mm
	RMC	24.00	251.19	Yes	Yes	Yes	Yes	No	Yes
WCDMA Band 4	Distance to User			<5mm	<5mm	<5mm	<5mm	>25mm	<5mm
	RMC	24.00	263.03	Yes	Yes	Yes	Yes	No	Yes
WCDMA Band 5	Distance to User			<5mm	<5mm	<5mm	<5mm	>25mm	<5mm
	RMC	25.00	316.23	Yes	Yes	Yes	Yes	No	Yes
LTE Band 2	Distance to User			<5mm	<5mm	<5mm	<5mm	>25mm	<5mm
	QPSK	24.00	251.19	Yes	Yes	Yes	Yes	No	Yes
LTE Band 4	Distance to User			<5mm	<5mm	<5mm	<5mm	>25mm	<5mm
	QPSK	23.50	223.87	Yes	Yes	Yes	Yes	No	Yes
LTE Band 5	Distance to User			<5mm	<5mm	<5mm	<5mm	>25mm	<5mm
	QPSK	25.00	316.23	Yes	Yes	Yes	Yes	No	Yes
LTE Band 7	Distance to User			<5mm	<5mm	<5mm	<5mm	>25mm	<5mm
	QPSK	23.80	239.88	Yes	Yes	Yes	Yes	No	Yes
LTE Band 12	Distance to User			<5mm	<5mm	<5mm	<5mm	>25mm	<5mm
	QPSK	24.00	251.19	Yes	Yes	Yes	Yes	No	Yes
LTE Band 13	Distance to User			<5mm	<5mm	<5mm	<5mm	>25mm	<5mm
	QPSK	24.50	281.84	Yes	Yes	Yes	Yes	No	Yes
LTE Band 17	Distance to User			<5mm	<5mm	<5mm	<5mm	>25mm	<5mm
	QPSK	24.00	251.19	Yes	Yes	Yes	Yes	No	Yes
LTE Band 26	Distance to User			<5mm	<5mm	<5mm	<5mm	>25mm	<5mm
	QPSK	24.50	281.84	Yes	Yes	Yes	Yes	No	Yes
LTE Band 66	Distance to User			<5mm	<5mm	<5mm	<5mm	>25mm	<5mm
	QPSK	23.80	239.88	Yes	Yes	Yes	Yes	No	Yes
LTE Band 38	Distance to User			<5mm	<5mm	<5mm	<5mm	>25mm	<5mm
	QPSK	24.00	251.19	Yes	Yes	Yes	Yes	No	Yes
LTE Band 41	Distance to User			<5mm	<5mm	<5mm	<5mm	>25mm	<5mm
	QPSK	24.00	251.19	Yes	Yes	Yes	Yes	No	Yes

ANT 1

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	>25mm	<5mm	<5mm	>25mm
	Data	33.20	2089.30	Yes	Yes	No	Yes	Yes	No
GSM 1900	Distance to User			<5mm	<5mm	>25mm	<5mm	<5mm	>25mm
	Data	30.20	1047.13	Yes	Yes	No	Yes	Yes	No
WCDMA Band 2	Distance to User			<5mm	<5mm	>25mm	<5mm	<5mm	>25mm
	RMC	23.70	234.42	Yes	Yes	No	Yes	Yes	No
WCDMA Band 4	Distance to User			<5mm	<5mm	>25mm	<5mm	<5mm	>25mm
	RMC	23.70	234.42	Yes	Yes	No	Yes	Yes	No
WCDMA Band 5	Distance to User			<5mm	<5mm	>25mm	<5mm	<5mm	>25mm
	RMC	24.70	295.12	Yes	Yes	No	Yes	Yes	No
LTE Band 2	Distance to User			<5mm	<5mm	>25mm	<5mm	<5mm	>25mm
	QPSK	23.70	234.42	Yes	Yes	No	Yes	Yes	No
LTE Band 4	Distance to User			<5mm	<5mm	>25mm	<5mm	<5mm	>25mm
	QPSK	23.20	208.93	Yes	Yes	No	Yes	Yes	No
LTE Band 5	Distance to User			<5mm	<5mm	>25mm	<5mm	<5mm	>25mm
	QPSK	24.70	295.12	Yes	Yes	No	Yes	Yes	No
LTE Band 7	Distance to User			<5mm	<5mm	>25mm	<5mm	<5mm	>25mm
	QPSK	23.40	218.78	Yes	Yes	No	Yes	Yes	No
LTE Band 12	Distance to User			<5mm	<5mm	>25mm	<5mm	<5mm	>25mm
	QPSK	23.70	234.42	Yes	Yes	No	Yes	Yes	No
LTE Band 13	Distance to User			<5mm	<5mm	>25mm	<5mm	<5mm	>25mm
	QPSK	24.20	263.03	Yes	Yes	No	Yes	Yes	No
LTE Band 17	Distance to User			<5mm	<5mm	>25mm	<5mm	<5mm	>25mm
	QPSK	23.70	234.42	Yes	Yes	No	Yes	Yes	No
LTE Band 26	Distance to User			<5mm	<5mm	>25mm	<5mm	<5mm	>25mm
	QPSK	24.20	263.03	Yes	Yes	No	Yes	Yes	No
LTE Band 66	Distance to User			<5mm	<5mm	>25mm	<5mm	<5mm	>25mm
	QPSK	23.60	229.09	Yes	Yes	No	Yes	Yes	No
LTE Band 38	Distance to User			<5mm	<5mm	>25mm	<5mm	<5mm	>25mm
	QPSK	23.70	234.42	Yes	Yes	No	Yes	Yes	No
LTE Band 41	Distance to User			<5mm	<5mm	>25mm	<5mm	<5mm	>25mm
	QPSK	23.70	234.42	Yes	Yes	No	Yes	Yes	No

ANT 2

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	>25mm	<5mm	>25mm
	802.11b	20.00	100.00	Yes	Yes	Yes	No	Yes	No
	802.11g	19.00	79.43	Yes	Yes	Yes	No	Yes	No
	802.11n(HT20)	19.00	79.43	Yes	Yes	Yes	No	Yes	No
	802.11n(HT40)	18.00	63.10	Yes	Yes	Yes	No	Yes	No
	802.11ac(VHT20)	18.00	63.10	Yes	Yes	Yes	No	Yes	No
	802.11ac(VHT40)	18.00	63.10	Yes	Yes	Yes	No	Yes	No
WLAN 5.2 G	Distance to User			<5mm	<5mm	<5mm	>25mm	<5mm	>25mm
	802.11a	20.00	100.00	Yes	Yes	Yes	No	Yes	No
	802.11n(HT20)	19.00	79.43	Yes	Yes	Yes	No	Yes	No
	802.11n(HT40)	19.00	79.43	Yes	Yes	Yes	No	Yes	No
	802.11ac(VHT20)	19.00	79.43	Yes	Yes	Yes	No	Yes	No
	802.11ac(VHT40)	19.00	79.43	Yes	Yes	Yes	No	Yes	No
	802.11ac(VHT80)	19.00	79.43	Yes	Yes	Yes	No	Yes	No
WLAN 5.3 G	Distance to User			<5mm	<5mm	<5mm	>25mm	<5mm	>25mm
	802.11a	20.00	100.00	Yes	Yes	Yes	No	Yes	No
	802.11n(HT20)	19.00	79.43	Yes	Yes	Yes	No	Yes	No
	802.11n(HT40)	19.00	79.43	Yes	Yes	Yes	No	Yes	No
	802.11ac(VHT20)	19.00	79.43	Yes	Yes	Yes	No	Yes	No
	802.11ac(VHT40)	19.00	79.43	Yes	Yes	Yes	No	Yes	No
	802.11ac(VHT80)	19.00	79.43	Yes	Yes	Yes	No	Yes	No
WLAN 5.8 G	Distance to User			<5mm	<5mm	<5mm	>25mm	<5mm	>25mm
	802.11a	20.00	100.00	Yes	Yes	Yes	No	Yes	No
	802.11n(HT20)	19.00	79.43	Yes	Yes	Yes	No	Yes	No
	802.11n(HT40)	19.00	79.43	Yes	Yes	Yes	No	Yes	No
	802.11ac(VHT20)	19.00	79.43	Yes	Yes	Yes	No	Yes	No
	802.11ac(VHT40)	19.00	79.43	Yes	Yes	Yes	No	Yes	No
	802.11ac(VHT80)	19.00	79.43	Yes	Yes	Yes	No	Yes	No
Bluetooth	Distance to User			<5mm	<5mm	<5mm	>25mm	<5mm	>25mm
	BT	13.50	22.39	Yes	Yes	Yes	No	Yes	No

Note:

- Maximum power is the source-based time-average power and represents the maximum RF output power including tune-up tolerance among production units
- 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.
- 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:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$$
 for 1-g SAR and ≤ 7.5 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. [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) $\cdot$ ($f(\text{MHz})/150$)] mW, at 100 MHz to 1500 MHz
 - b. [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) $\cdot$ 10] mW at > 1500 MHz and ≤ 6 GHz
6. Per KDB 941225 D01, RMC 12.2kbps setting is used to evaluate SAR. If HSDPA /HSUPA /DC-HSDPA output power is $< 0.25\text{dB}$ 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 $1/4\text{dB}$ 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

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head													
Ant.1	Level1	GPRS 2 slots	Left Cheek	0	128	824.2	-0.06	0.544	29.33	29.70	1.089	0.592	/
Ant.1	Level1	GPRS 2 slots	Left Tilt	0	128	824.2	-0.02	0.481	29.33	29.70	1.089	0.524	/
Ant.1	Level1	GPRS 2 slots	Right Cheek	0	128	824.2	-0.03	0.771	29.33	29.70	1.089	0.840	/
Ant.1	Level1	GPRS 2 slots	Right Tilt	0	128	824.2	-0.07	0.667	29.33	29.70	1.089	0.726	/
Ant.1	Level1	GPRS 2 slots	Right Cheek	0	190	836.6	0.03	0.682	29.20	29.70	1.122	0.765	/
Ant.1	Level1	GPRS 2 slots	Right Cheek	0	251	848.8	0.13	0.794	29.16	29.70	1.132	0.899	1#
Ant.1	Level2&3	GPRS 2 slots	Left Cheek	0	128	824.2	-0.15	0.382	27.82	28.20	1.091	0.417	/
Ant.1	Level2&3	GPRS 2 slots	Left Tilt	0	128	824.2	0.17	0.340	27.82	28.20	1.091	0.371	/
Ant.1	Level2&3	GPRS 2 slots	Right Cheek	0	128	824.2	0.14	0.543	27.82	28.20	1.091	0.593	/
Ant.1	Level2&3	GPRS 2 slots	Right Tilt	0	128	824.2	-0.16	0.471	27.82	28.20	1.091	0.514	/
Ant.0	Level1&2&3	GPRS 2 slots	Left Cheek	0	128	824.2	-0.06	0.119	30.43	31.00	1.140	0.136	/
Ant.0	Level1&2&3	GPRS 2 slots	Left Tilt	0	128	824.2	0.01	0.061	30.43	31.00	1.140	0.070	/
Ant.0	Level1&2&3	GPRS 2 slots	Right Cheek	0	128	824.2	-0.03	0.092	30.43	31.00	1.140	0.105	/
Ant.0	Level1&2&3	GPRS 2 slots	Right Tilt	0	128	824.2	-0.08	0.049	30.43	31.00	1.140	0.056	/
Body-worn													
Ant.1	Level4	GPRS 2 slots	Front Side	15	190	836.6	-0.02	0.083	30.13	30.70	1.140	0.095	/
Ant.1	Level4	GPRS 2 slots	Back Side	15	190	836.6	0.02	0.099	30.13	30.70	1.140	0.113	/
Ant.1	Level5&6	GPRS 2 slots	Front Side	15	128	824.2	0.00	0.064	29.33	29.70	1.089	0.070	/
Ant.1	Level5&6	GPRS 2 slots	Back Side	15	128	824.2	-0.03	0.073	29.33	29.70	1.089	0.079	/
Ant.0	Level4	GPRS 2 slots	Front Side	15	128	824.2	0.05	0.094	30.43	31.00	1.140	0.107	/
Ant.0	Level4	GPRS 2 slots	Back Side	15	128	824.2	0.00	0.112	30.43	31.00	1.140	0.128	2#
Ant.0	Level5&6	GPRS 2 slots	Front Side	15	128	824.2	0.18	0.073	29.34	30.00	1.164	0.085	/
Ant.0	Level5&6	GPRS 2 slots	Back Side	15	128	824.2	0.12	0.100	29.34	30.00	1.164	0.116	/
Hotspot													
Ant.1	Level5&6	GPRS 2 slots	Front Side	10	190	836.6	0.16	0.119	30.13	30.70	1.140	0.136	/
Ant.1	Level5&6	GPRS 2 slots	Back Side	10	190	836.6	-0.18	0.145	30.13	30.70	1.140	0.165	/
Ant.1	Level5&6	GPRS 2 slots	Right Edge	10	190	836.6	0.15	0.057	30.13	30.70	1.140	0.065	/
Ant.1	Level5&6	GPRS 2 slots	Top Edge	10	190	836.6	0.00	0.149	30.13	30.70	1.140	0.170	3#
Ant.0	Level5&6	GPRS 2 slots	Front Side	10	128	824.2	-0.04	0.077	29.34	30.00	1.164	0.090	/
Ant.0	Level5&6	GPRS 2 slots	Back Side	10	128	824.2	-0.12	0.143	29.34	30.00	1.164	0.166	/
Ant.0	Level5&6	GPRS 2 slots	Left Edge	10	128	824.2	-0.16	0.057	29.34	30.00	1.164	0.066	/
Ant.0	Level5&6	GPRS 2 slots	Right Edge	10	128	824.2	0.19	0.087	29.34	30.00	1.164	0.101	/
Ant.0	Level5&6	GPRS 2 slots	Bottom Edge	10	128	824.2	0.00	0.087	29.34	30.00	1.164	0.101	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

10.2 GSM 1900

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head													
Ant.1	Level1	GPRS 2 slots	Left Cheek	0	810	1909.8	0.02	0.607	26.54	26.70	1.038	0.630	/
Ant.1	Level1	GPRS 2 slots	Left Tilt	0	810	1909.8	-0.10	0.673	26.54	26.70	1.038	0.698	/
Ant.1	Level1	GPRS 2 slots	Right Cheek	0	810	1909.8	-0.16	0.911	26.54	26.70	1.038	0.945	/
Ant.1	Level1	GPRS 2 slots	Right Tilt	0	810	1909.8	-0.16	1.120	26.54	26.70	1.038	1.162	4#
Ant.1	Level1	GPRS 2 slots	Right Cheek	0	512	1850.2	0.07	0.718	26.22	26.70	1.117	0.802	/
Ant.1	Level1	GPRS 2 slots	Right Cheek	0	661	1880.0	0.19	0.830	26.36	26.70	1.081	0.898	/
Ant.1	Level1	GPRS 2 slots	Right Tilt	0	512	1850.2	0.19	0.893	26.22	26.70	1.117	0.997	/
Ant.1	Level1	GPRS 2 slots	Right Tilt	0	661	1880.0	-0.18	1.030	26.36	26.70	1.081	1.114	/
Ant.1	Level2&3	GPRS 2 slots	Left Cheek	0	810	1909.8	-0.15	0.425	23.16	23.20	1.009	0.429	/
Ant.1	Level2&3	GPRS 2 slots	Left Tilt	0	810	1909.8	-0.05	0.471	23.16	23.20	1.009	0.475	/
Ant.1	Level2&3	GPRS 2 slots	Right Cheek	0	810	1909.8	0.12	0.640	23.16	23.20	1.009	0.646	/
Ant.1	Level2&3	GPRS 2 slots	Right Tilt	0	810	1909.8	0.03	0.754	23.16	23.20	1.009	0.761	/
Ant.0	Level1&2&3	GPRS 2 slots	Left Cheek	0	810	1909.8	0.19	0.076	27.59	28.00	1.099	0.084	/
Ant.0	Level1&2&3	GPRS 2 slots	Left Tilt	0	810	1909.8	0.08	0.038	27.59	28.00	1.099	0.042	/
Ant.0	Level1&2&3	GPRS 2 slots	Right Cheek	0	810	1909.8	-0.05	0.058	27.59	28.00	1.099	0.064	/
Ant.0	Level1&2&3	GPRS 2 slots	Right Tilt	0	810	1909.8	0.15	0.039	27.59	28.00	1.099	0.043	/
Body-worn													
Ant.1	Level4	GPRS 2 slots	Front Side	15	810	1909.8	0.18	0.147	26.66	26.70	1.009	0.148	/
Ant.1	Level4	GPRS 2 slots	Back Side	15	810	1909.8	0.16	0.214	26.66	26.70	1.009	0.216	/
Ant.1	Level5&6	GPRS 2 slots	Front Side	15	810	1909.8	-0.09	0.115	25.63	25.70	1.016	0.117	/
Ant.1	Level5&6	GPRS 2 slots	Back Side	15	810	1909.8	0.04	0.148	25.63	25.70	1.016	0.150	/
Ant.0	Level4&5&6	GPRS 2 slots	Front Side	15	810	1909.8	0.07	0.119	27.59	28.00	1.099	0.131	/
Ant.0	Level4&5&6	GPRS 2 slots	Back Side	15	810	1909.8	0.11	0.202	27.59	28.00	1.099	0.222	5#
Hotspot													
Ant.1	Level5&6	GPRS 2 slots	Front Side	10	810	1909.8	0.12	0.213	25.63	25.70	1.016	0.216	/
Ant.1	Level5&6	GPRS 2 slots	Back Side	10	810	1909.8	-0.04	0.276	25.63	25.70	1.016	0.280	/
Ant.1	Level5&6	GPRS 2 slots	Right Edge	10	810	1909.8	-0.13	0.048	25.63	25.70	1.016	0.049	/
Ant.1	Level5&6	GPRS 2 slots	Top Edge	10	810	1909.8	-0.07	0.426	25.63	25.70	1.016	0.433	6#
Ant.0	Level5&6	GPRS 2 slots	Front Side	10	810	1909.8	-0.15	0.150	27.59	28.00	1.099	0.165	/
Ant.0	Level5&6	GPRS 2 slots	Back Side	10	810	1909.8	-0.05	0.321	27.59	28.00	1.099	0.353	/
Ant.0	Level5&6	GPRS 2 slots	Left Edge	10	810	1909.8	-0.13	0.068	27.59	28.00	1.099	0.075	/
Ant.0	Level5&6	GPRS 2 slots	Right Edge	10	810	1909.8	-0.14	0.000	27.59	28.00	1.099	0.000	/
Ant.0	Level5&6	GPRS 2 slots	Bottom Edge	10	810	1909.8	-0.08	0.392	27.59	28.00	1.099	0.431	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

10.3WCDMA Band 2

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head													
Ant.1	Level1	RMC	Left Cheek	0	9538	1907.6	0.15	0.442	17.18	17.70	1.127	0.498	/
Ant.1	Level1	RMC	Left Tilt	0	9538	1907.6	-0.13	0.527	17.18	17.70	1.127	0.595	/
Ant.1	Level1	RMC	Right Cheek	0	9538	1907.6	0.17	0.681	17.18	17.70	1.127	0.767	/
Ant.1	Level1	RMC	Right Tilt	0	9538	1907.6	0.17	0.876	17.18	17.70	1.127	0.987	7#
Ant.1	Level1	RMC	Right Tilt	0	9262	1852.4	-0.09	0.804	17.08	17.70	1.153	0.927	/
Ant.1	Level1	RMC	Right Tilt	0	9538	1907.6	0.01	0.821	17.01	17.70	1.172	0.962	/
Ant.1	Level2&3	RMC	Left Cheek	0	9538	1907.6	-0.16	0.324	15.74	16.20	1.112	0.360	/
Ant.1	Level2&3	RMC	Left Tilt	0	9538	1907.6	-0.02	0.380	15.74	16.20	1.112	0.422	/
Ant.1	Level2&3	RMC	Right Cheek	0	9538	1907.6	0.00	0.491	15.74	16.20	1.112	0.546	/
Ant.1	Level2&3	RMC	Right Tilt	0	9538	1907.6	-0.11	0.623	15.74	16.20	1.112	0.693	/
Ant.0	Level1&2&3	RMC	Left Cheek	0	9538	1907.6	0.01	0.090	23.44	24.00	1.138	0.102	/
Ant.0	Level1&2&3	RMC	Left Tilt	0	9538	1907.6	0.10	0.046	23.44	24.00	1.138	0.052	/
Ant.0	Level1&2&3	RMC	Right Cheek	0	9538	1907.6	-0.06	0.072	23.44	24.00	1.138	0.082	/
Ant.0	Level1&2&3	RMC	Right Tilt	0	9538	1907.6	0.06	0.058	23.44	24.00	1.138	0.066	/
Body-worn													
Ant.1	Level4	RMC	Front Side	15	9538	1907.6	-0.03	0.153	20.82	21.20	1.091	0.167	/
Ant.1	Level4	RMC	Back Side	15	9538	1907.6	0.05	0.175	20.82	21.20	1.091	0.191	/
Ant.1	Level5&6	RMC	Front Side	15	9538	1907.6	0.17	0.106	19.34	19.70	1.086	0.115	/
Ant.1	Level5&6	RMC	Back Side	15	9538	1907.6	0.14	0.123	19.34	19.70	1.086	0.134	/
Ant.0	Level4	RMC	Front Side	15	9538	1907.6	-0.10	0.221	21.96	22.50	1.132	0.250	/
Ant.0	Level4	RMC	Back Side	15	9538	1907.6	0.00	0.421	21.96	22.50	1.132	0.477	8#
Ant.0	Level5&6	RMC	Front Side	15	9538	1907.6	-0.10	0.162	20.98	21.50	1.127	0.183	/
Ant.0	Level5&6	RMC	Back Side	15	9538	1907.6	0.07	0.301	20.98	21.50	1.127	0.339	/
Hotspot													
Ant.1	Level5&6	RMC	Front Side	10	9538	1907.6	-0.03	0.269	19.34	19.70	1.086	0.292	/
Ant.1	Level5&6	RMC	Back Side	10	9538	1907.6	0.06	0.355	19.34	19.70	1.086	0.386	/
Ant.1	Level5&6	RMC	Right Edge	10	9538	1907.6	0.15	0.074	19.34	19.70	1.086	0.080	/
Ant.1	Level5&6	RMC	Top Edge	10	9538	1907.6	-0.07	0.475	19.34	19.70	1.086	0.516	/
Ant.0	Level5&6	RMC	Front Side	10	9538	1907.6	0.07	0.240	20.98	21.50	1.127	0.271	/
Ant.0	Level5&6	RMC	Back Side	10	9538	1907.6	0.15	0.476	20.98	21.50	1.127	0.537	/
Ant.0	Level5&6	RMC	Left Edge	10	9538	1907.6	-0.15	0.101	20.98	21.50	1.127	0.114	/
Ant.0	Level5&6	RMC	Right Edge	10	9538	1907.6	0.07	0.045	20.98	21.50	1.127	0.051	/
Ant.0	Level5&6	RMC	Bottom Edge	10	9538	1907.6	-0.06	0.662	20.98	21.50	1.127	0.746	9#
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

10.4WCDMA Band 4

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head													
Ant.1	Level1	RMC	Left Cheek	0	1412	1732.4	0.12	0.509	18.14	18.70	1.138	0.579	/
Ant.1	Level1	RMC	Left Tilt	0	1412	1732.4	-0.11	0.598	18.14	18.70	1.138	0.680	/
Ant.1	Level1	RMC	Right Cheek	0	1412	1732.4	0.15	0.743	18.14	18.70	1.138	0.845	/
Ant.1	Level1	RMC	Right Tilt	0	1412	1732.4	-0.12	1.040	18.14	18.70	1.138	1.183	10#
Ant.1	Level1	RMC	Right Cheek	0	1312	1712.4	0.09	0.680	18.13	18.70	1.140	0.775	/
Ant.1	Level1	RMC	Right Cheek	0	1513	1752.6	-0.05	0.471	18.10	18.70	1.148	0.541	/
Ant.1	Level1	RMC	Right Tilt	0	1312	1712.4	-0.10	0.936	18.13	18.70	1.140	1.067	/
Ant.1	Level1	RMC	Right Tilt	0	1513	1752.6	-0.03	0.976	18.10	18.70	1.148	1.121	/
Ant.1	Level2&3	RMC	Left Cheek	0	1412	1732.4	-0.14	0.360	16.66	17.20	1.132	0.408	/
Ant.1	Level2&3	RMC	Left Tilt	0	1412	1732.4	-0.09	0.423	16.66	17.20	1.132	0.479	/
Ant.1	Level2&3	RMC	Right Cheek	0	1412	1732.4	0.05	0.526	16.66	17.20	1.132	0.596	/
Ant.1	Level2&3	RMC	Right Tilt	0	1412	1732.4	0.07	0.651	16.66	17.20	1.132	0.737	/
Ant.0	Level1&2&3	RMC	Left Cheek	0	1312	1712.4	-0.11	0.061	23.29	24.00	1.178	0.072	/
Ant.0	Level1&2&3	RMC	Left Tilt	0	1312	1712.4	-0.04	0.027	23.29	24.00	1.178	0.032	/
Ant.0	Level1&2&3	RMC	Right Cheek	0	1312	1712.4	0.09	0.046	23.29	24.00	1.178	0.054	/
Ant.0	Level1&2&3	RMC	Right Tilt	0	1312	1712.4	-0.13	0.024	23.29	24.00	1.178	0.028	/
Body-worn													
Ant.1	Level4	RMC	Front Side	15	1412	1732.4	-0.06	0.119	21.24	21.70	1.112	0.132	/
Ant.1	Level4	RMC	Back Side	15	1412	1732.4	0.13	0.138	21.24	21.70	1.112	0.153	/
Ant.1	Level5&6	RMC	Front Side	15	1412	1732.4	0.17	0.076	19.74	20.20	1.112	0.084	/
Ant.1	Level5&6	RMC	Back Side	15	1412	1732.4	-0.02	0.098	19.74	20.20	1.112	0.109	/
Ant.0	Level4	RMC	Front Side	15	1412	1732.4	-0.15	0.158	22.33	23.00	1.167	0.184	/
Ant.0	Level4	RMC	Back Side	15	1412	1732.4	-0.07	0.325	22.33	23.00	1.167	0.379	11#
Ant.0	Level5&6	RMC	Front Side	15	1412	1732.4	-0.19	0.110	20.85	21.50	1.161	0.128	/
Ant.0	Level5&6	RMC	Back Side	15	1412	1732.4	-0.12	0.213	20.85	21.50	1.161	0.247	/
Hotspot													
Ant.1	Level5&6	RMC	Front Side	10	1412	1732.4	0.00	0.260	19.74	20.20	1.112	0.289	/
Ant.1	Level5&6	RMC	Back Side	10	1412	1732.4	0.05	0.327	19.74	20.20	1.112	0.364	/
Ant.1	Level5&6	RMC	Right Edge	10	1412	1732.4	-0.01	0.070	19.74	20.20	1.112	0.078	/
Ant.1	Level5&6	RMC	Top Edge	10	1412	1732.4	-0.02	0.418	19.74	20.20	1.112	0.465	/
Ant.0	Level5&6	RMC	Front Side	10	1412	1732.4	-0.11	0.193	20.85	21.50	1.161	0.224	/
Ant.0	Level5&6	RMC	Back Side	10	1412	1732.4	0.04	0.381	20.85	21.50	1.161	0.443	/
Ant.0	Level5&6	RMC	Left Edge	10	1412	1732.4	0.02	0.067	20.85	21.50	1.161	0.078	/
Ant.0	Level5&6	RMC	Right Edge	10	1412	1732.4	-0.08	0.038	20.85	21.50	1.161	0.044	/
Ant.0	Level5&6	RMC	Bottom Edge	10	1412	1732.4	0.01	0.590	20.85	21.50	1.161	0.685	12#
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

10.5WCDMA Band 5

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head													
Ant.1	Level1	RMC	Left Cheek	0	4132	826.4	-0.09	0.361	22.03	22.70	1.167	0.421	/
Ant.1	Level1	RMC	Left Tilt	0	4132	826.4	-0.15	0.333	22.03	22.70	1.167	0.389	/
Ant.1	Level1	RMC	Right Cheek	0	4132	826.4	0.05	0.639	22.03	22.70	1.167	0.746	13#
Ant.1	Level1	RMC	Right Tilt	0	4132	826.4	0.18	0.552	22.03	22.70	1.167	0.644	/
Ant.1	Level2&3	RMC	Left Cheek	0	4132	826.4	-0.14	0.257	20.61	21.20	1.146	0.294	/
Ant.1	Level2&3	RMC	Left Tilt	0	4132	826.4	0.04	0.238	20.61	21.20	1.146	0.273	/
Ant.1	Level2&3	RMC	Right Cheek	0	4132	826.4	0.06	0.455	20.61	21.20	1.146	0.521	/
Ant.1	Level2&3	RMC	Right Tilt	0	4132	826.4	0.17	0.394	20.61	21.20	1.146	0.451	/
Ant.0	Level1&2&3	RMC	Left Cheek	0	4182	836.4	-0.01	0.128	24.17	25.00	1.211	0.155	/
Ant.0	Level1&2&3	RMC	Left Tilt	0	4182	836.4	-0.12	0.067	24.17	25.00	1.211	0.081	/
Ant.0	Level1&2&3	RMC	Right Cheek	0	4182	836.4	-0.16	0.098	24.17	25.00	1.211	0.119	/
Ant.0	Level1&2&3	RMC	Right Tilt	0	4182	836.4	-0.19	0.053	24.17	25.00	1.211	0.064	/
Body-worn													
Ant.1	Level4&5&6	RMC	Front Side	15	4132	826.4	0.00	0.089	24.09	24.70	1.151	0.102	/
Ant.1	Level4&5&6	RMC	Back Side	15	4132	826.4	-0.06	0.118	24.09	24.70	1.151	0.136	/
Ant.0	Level4	RMC	Front Side	15	4132	826.4	-0.02	0.089	24.17	25.00	1.211	0.108	/
Ant.0	Level4	RMC	Back Side	15	4132	826.4	-0.05	0.114	24.17	25.00	1.211	0.138	14#
Ant.0	Level5&6	RMC	Front Side	15	4132	826.4	0.13	0.065	22.66	23.50	1.213	0.079	/
Ant.0	Level5&6	RMC	Back Side	15	4132	826.4	-0.18	0.080	22.66	23.50	1.213	0.097	/
Hotspot													
Ant.1	Level5&6	RMC	Front Side	10	4132	826.4	-0.14	0.160	24.09	24.70	1.151	0.184	/
Ant.1	Level5&6	RMC	Back Side	10	4132	826.4	-0.16	0.180	24.09	24.70	1.151	0.207	/
Ant.1	Level5&6	RMC	Right Edge	10	4132	826.4	-0.16	0.095	24.09	24.70	1.151	0.109	/
Ant.1	Level5&6	RMC	Top Edge	10	4132	826.4	-0.16	0.181	24.09	24.70	1.151	0.208	15#
Ant.0	Level5&6	RMC	Front Side	10	4132	826.4	0.00	0.071	22.66	23.50	1.213	0.086	/
Ant.0	Level5&6	RMC	Back Side	10	4132	826.4	0.03	0.137	22.66	23.50	1.213	0.166	/
Ant.0	Level5&6	RMC	Left Edge	10	4132	826.4	-0.05	0.055	22.66	23.50	1.213	0.067	/
Ant.0	Level5&6	RMC	Right Edge	10	4132	826.4	0.09	0.079	22.66	23.50	1.213	0.096	/
Ant.0	Level5&6	RMC	Bottom Edge	10	4132	826.4	0.13	0.085	22.66	23.50	1.213	0.103	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

10.6LTE Band 2 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.1	Level1	QPSK	Left Cheek	0	18900	1880	1	Mid	0.01	0.449	17.66	18.20	1.132	0.508	/
Ant.1	Level1	QPSK	Left Cheek	0	19100	1900	50	Low	0.16	0.450	17.73	18.20	1.114	0.501	/
Ant.1	Level1	QPSK	Left Tilt	0	18900	1880	1	Mid	-0.17	0.507	17.66	18.20	1.132	0.574	/
Ant.1	Level1	QPSK	Left Tilt	0	19100	1900	50	Low	0.01	0.511	17.73	18.20	1.114	0.569	/
Ant.1	Level1	QPSK	Right Cheek	0	18900	1880	1	Mid	0.13	0.684	17.66	18.20	1.132	0.775	/
Ant.1	Level1	QPSK	Right Cheek	0	19100	1900	50	Low	0.06	0.693	17.73	18.20	1.114	0.772	/
Ant.1	Level1	QPSK	Right Tilt	0	18900	1880	1	Mid	0.04	0.801	17.66	18.20	1.132	0.907	16#
Ant.1	Level1	QPSK	Right Tilt	0	19100	1900	50	Low	0.12	0.812	17.73	18.20	1.114	0.905	/
Ant.1	Level1	QPSK	Right Tilt	0	18700	1860	1	Mid	-0.03	0.778	17.65	18.20	1.135	0.883	/
Ant.1	Level1	QPSK	Right Tilt	0	19100	1900	1	Mid	0.05	0.795	17.64	18.20	1.138	0.905	/
Ant.1	Level1	QPSK	Right Tilt	0	18700	1860	50	Mid	-0.13	0.782	17.56	18.20	1.159	0.906	/
Ant.1	Level1	QPSK	Right Tilt	0	18900	1880	50	Mid	-0.17	0.768	17.52	18.20	1.169	0.898	/
Ant.1	Level1	QPSK	Right Tilt	0	19100	1900	100	Low	0.13	0.793	17.66	18.20	1.132	0.899	/
Ant.1	Level2&3	QPSK	Left Cheek	0	18900	1880	1	Mid	0.18	0.330	16.24	16.70	1.112	0.367	/
Ant.1	Level2&3	QPSK	Left Cheek	0	19100	1900	50	Low	-0.18	0.316	16.27	16.70	1.104	0.349	/
Ant.1	Level2&3	QPSK	Left Tilt	0	18900	1880	1	Mid	-0.10	0.372	16.24	16.70	1.112	0.414	/
Ant.1	Level2&3	QPSK	Left Tilt	0	19100	1900	50	Low	-0.14	0.360	16.27	16.70	1.104	0.397	/
Ant.1	Level2&3	QPSK	Right Cheek	0	18900	1880	1	Mid	0.09	0.502	16.24	16.70	1.112	0.558	/
Ant.1	Level2&3	QPSK	Right Cheek	0	19100	1900	50	Low	0.02	0.504	16.27	16.70	1.104	0.556	/
Ant.1	Level2&3	QPSK	Right Tilt	0	18900	1880	1	Mid	0.07	0.588	16.24	16.70	1.112	0.654	/
Ant.1	Level2&3	QPSK	Right Tilt	0	19100	1900	50	Low	0.03	0.550	16.27	16.70	1.104	0.607	/
Ant.0	Level1&2&3	QPSK	Left Cheek	0	18700	1860	1	Mid	0.06	0.076	23.37	24.00	1.156	0.088	/
Ant.0	Level1&2&3	QPSK	Left Cheek	0	19100	1900	50	Low	-0.11	0.066	22.31	23.00	1.172	0.077	/
Ant.0	Level1&2&3	QPSK	Left Tilt	0	18700	1860	1	Mid	-0.03	0.035	23.37	24.00	1.156	0.040	/
Ant.0	Level1&2&3	QPSK	Left Tilt	0	19100	1900	50	Low	-0.16	0.030	22.31	23.00	1.172	0.035	/
Ant.0	Level1&2&3	QPSK	Right Cheek	0	18700	1860	1	Mid	0.08	0.061	23.37	24.00	1.156	0.071	/
Ant.0	Level1&2&3	QPSK	Right Cheek	0	19100	1900	50	Low	-0.11	0.052	22.31	23.00	1.172	0.061	/
Ant.0	Level1&2&3	QPSK	Right Tilt	0	18700	1860	1	Mid	-0.10	0.042	23.37	24.00	1.156	0.049	/
Ant.0	Level1&2&3	QPSK	Right Tilt	0	19100	1900	50	Low	-0.09	0.035	22.31	23.00	1.172	0.041	/
Body-worn															
Ant.1	Level4	QPSK	Front Side	15	18900	1880	1	Mid	0.17	0.213	21.26	21.70	1.107	0.236	/
Ant.1	Level4	QPSK	Front Side	15	19100	1900	50	Low	0.08	0.215	21.25	21.70	1.109	0.238	/
Ant.1	Level4	QPSK	Back Side	15	18900	1880	1	Mid	-0.06	0.273	21.26	21.70	1.107	0.302	/
Ant.1	Level4	QPSK	Back Side	15	19100	1900	50	Low	0.05	0.277	21.25	21.70	1.109	0.307	17#
Ant.1	Level5&6	QPSK	Front Side	15	18900	1880	1	Mid	0.04	0.151	19.77	20.20	1.104	0.167	/
Ant.1	Level5&6	QPSK	Front Side	15	19100	1900	50	Low	-0.02	0.157	19.86	20.20	1.081	0.170	/
Ant.1	Level5&6	QPSK	Back Side	15	18900	1880	1	Mid	0.00	0.196	19.77	20.20	1.104	0.216	/

Ant.1	Level5&6	QPSK	Back Side	15	19100	1900	50	Low	0.06	0.197	19.86	20.20	1.081	0.213	/
Ant.0	Level4	QPSK	Front Side	15	18900	1880	1	Mid	-0.18	0.142	21.83	22.50	1.167	0.166	/
Ant.0	Level4	QPSK	Front Side	15	19100	1900	50	Low	0.14	0.140	21.82	22.50	1.169	0.164	/
Ant.0	Level4	QPSK	Back Side	15	18900	1880	1	Mid	0.02	0.260	21.83	22.50	1.167	0.303	/
Ant.0	Level4	QPSK	Back Side	15	19100	1900	50	Low	-0.06	0.259	21.82	22.50	1.169	0.303	/
Ant.0	Level5&6	QPSK	Front Side	15	18900	1880	1	Mid	0.19	0.112	20.92	21.50	1.143	0.128	/
Ant.0	Level5&6	QPSK	Front Side	15	19100	1900	50	Low	0.15	0.109	20.93	21.50	1.140	0.124	/
Ant.0	Level5&6	QPSK	Back Side	15	18900	1880	1	Mid	0.11	0.221	20.92	21.50	1.143	0.253	/
Ant.0	Level5&6	QPSK	Back Side	15	19100	1900	50	Low	0.11	0.218	20.93	21.50	1.140	0.249	/
Hotspot															
Ant.1	Level5&6	QPSK	Front Side	10	18900	1880	1	Mid	-0.17	0.277	19.77	20.20	1.104	0.306	/
Ant.1	Level5&6	QPSK	Front Side	10	19100	1900	50	Low	0.10	0.285	19.86	20.20	1.081	0.308	/
Ant.1	Level5&6	QPSK	Back Side	10	18900	1880	1	Mid	-0.12	0.340	19.77	20.20	1.104	0.375	/
Ant.1	Level5&6	QPSK	Back Side	10	19100	1900	50	Low	-0.18	0.350	19.86	20.20	1.081	0.379	/
Ant.1	Level5&6	QPSK	Right Edge	10	18900	1880	1	Mid	0.05	0.080	19.77	20.20	1.104	0.088	/
Ant.1	Level5&6	QPSK	Right Edge	10	19100	1900	50	Low	-0.13	0.078	19.86	20.20	1.081	0.084	/
Ant.1	Level5&6	QPSK	Top Edge	10	18900	1880	1	Mid	-0.14	0.416	19.77	20.20	1.104	0.459	/
Ant.1	Level5&6	QPSK	Top Edge	10	19100	1900	50	Low	0.19	0.419	19.86	20.20	1.081	0.453	/
Ant.0	Level5&6	QPSK	Front Side	10	18900	1880	1	Mid	0.01	0.408	20.92	21.50	1.143	0.466	/
Ant.0	Level5&6	QPSK	Front Side	10	19100	1900	50	Low	0.05	0.403	20.93	21.50	1.140	0.460	/
Ant.0	Level5&6	QPSK	Back Side	10	18900	1880	1	Mid	-0.05	0.385	20.92	21.50	1.143	0.440	/
Ant.0	Level5&6	QPSK	Back Side	10	19100	1900	50	Low	0.05	0.390	20.93	21.50	1.140	0.445	/
Ant.0	Level5&6	QPSK	Left Edge	10	18900	1880	1	Mid	0.05	0.093	20.92	21.50	1.143	0.106	/
Ant.0	Level5&6	QPSK	Left Edge	10	19100	1900	50	Low	-0.01	0.100	20.93	21.50	1.140	0.114	/
Ant.0	Level5&6	QPSK	Right Edge	10	18900	1880	1	Mid	-0.15	0.048	20.92	21.50	1.143	0.055	/
Ant.0	Level5&6	QPSK	Right Edge	10	19100	1900	50	Low	0.14	0.050	20.93	21.50	1.140	0.057	/
Ant.0	Level5&6	QPSK	Bottom Edge	10	18900	1880	1	Mid	-0.08	0.605	20.92	21.50	1.143	0.691	18#
Ant.0	Level5&6	QPSK	Bottom Edge	10	19100	1900	50	Low	-0.17	0.603	20.93	21.50	1.140	0.688	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.7LTE Band 4 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.1	Level1	QPSK	Left Cheek	0	20300	1745	1	Mid	0.18	0.566	18.81	19.20	1.094	0.619	/
Ant.1	Level1	QPSK	Left Cheek	0	20050	1720	50	High	0.18	0.544	18.69	19.20	1.125	0.612	/
Ant.1	Level1	QPSK	Left Tilt	0	20300	1745	1	Mid	-0.01	0.628	18.81	19.20	1.094	0.687	/
Ant.1	Level1	QPSK	Left Tilt	0	20050	1720	50	High	-0.19	0.622	18.69	19.20	1.125	0.700	/
Ant.1	Level1	QPSK	Right Cheek	0	20300	1745	1	Mid	-0.05	0.815	18.81	19.20	1.094	0.892	/
Ant.1	Level1	QPSK	Right Cheek	0	20050	1720	50	High	-0.14	0.817	18.69	19.20	1.125	0.919	/
Ant.1	Level1	QPSK	Right Tilt	0	20300	1745	1	Mid	0.14	0.956	18.81	19.20	1.094	1.046	19#

Ant.1	Level1	QPSK	Right Tilt	0	20050	1720	50	High	-0.06	0.925	18.69	19.20	1.125	1.040	/
Ant.1	Level1	QPSK	Right Cheek	0	20300	1745	1	Mid	-0.15	0.771	18.69	19.20	1.125	0.867	/
Ant.1	Level1	QPSK	Right Cheek	0	20175	1732.5	1	Mid	0.16	0.790	18.73	19.20	1.114	0.880	/
Ant.1	Level1	QPSK	Right Cheek	0	20175	1732.5	50	High	0.05	0.752	18.67	19.20	1.130	0.850	/
Ant.1	Level1	QPSK	Right Cheek	0	20300	1745	50	High	-0.08	0.770	18.62	19.20	1.143	0.880	/
Ant.1	Level1	QPSK	Right Cheek	0	20175	1732.5	100	Low	0.09	0.762	18.69	19.20	1.125	0.857	/
Ant.1	Level1	QPSK	Right Tilt	0	20300	1745	1	Mid	-0.15	0.908	18.69	19.20	1.125	1.021	/
Ant.1	Level1	QPSK	Right Tilt	0	20175	1732.5	1	Mid	-0.04	0.929	18.73	19.20	1.114	1.035	/
Ant.1	Level1	QPSK	Right Tilt	0	20175	1732.5	50	High	-0.16	0.895	18.67	19.20	1.130	1.011	/
Ant.1	Level1	QPSK	Right Tilt	0	20300	1745	50	High	0.02	0.910	18.62	19.20	1.143	1.040	/
Ant.1	Level1	QPSK	Right Tilt	0	20175	1732.5	100	Low	-0.02	0.913	18.69	19.20	1.125	1.027	/
Ant.1	Level2&3	QPSK	Left Cheek	0	20300	1745	1	Mid	0.11	0.401	17.30	17.70	1.096	0.440	/
Ant.1	Level2&3	QPSK	Left Cheek	0	20050	1720	50	High	-0.04	0.384	17.28	17.70	1.102	0.423	/
Ant.1	Level2&3	QPSK	Left Tilt	0	20300	1745	1	Mid	-0.19	0.447	17.30	17.70	1.096	0.490	/
Ant.1	Level2&3	QPSK	Left Tilt	0	20050	1720	50	High	0.01	0.441	17.28	17.70	1.102	0.486	/
Ant.1	Level2&3	QPSK	Right Cheek	0	20300	1745	1	Mid	0.12	0.575	17.30	17.70	1.096	0.630	/
Ant.1	Level2&3	QPSK	Right Cheek	0	20050	1720	50	High	0.05	0.574	17.28	17.70	1.102	0.632	/
Ant.1	Level2&3	QPSK	Right Tilt	0	20300	1745	1	Mid	-0.15	0.675	17.30	17.70	1.096	0.740	/
Ant.1	Level2&3	QPSK	Right Tilt	0	20050	1720	50	High	-0.19	0.649	17.28	17.70	1.102	0.715	/
Ant.0	Level1&2&3	QPSK	Left Cheek	0	20300	1745	1	Mid	-0.19	0.050	23.00	23.50	1.122	0.056	/
Ant.0	Level1&2&3	QPSK	Left Cheek	0	20175	1732.5	50	High	-0.18	0.042	21.93	22.50	1.140	0.048	/
Ant.0	Level1&2&3	QPSK	Left Tilt	0	20300	1745	1	Mid	-0.07	0.026	23.00	23.50	1.122	0.029	/
Ant.0	Level1&2&3	QPSK	Left Tilt	0	20175	1732.5	50	High	-0.16	0.021	21.93	22.50	1.140	0.024	/
Ant.0	Level1&2&3	QPSK	Right Cheek	0	20300	1745	1	Mid	0.06	0.041	23.00	23.50	1.122	0.046	/
Ant.0	Level1&2&3	QPSK	Right Cheek	0	20175	1732.5	50	High	0.09	0.034	21.93	22.50	1.140	0.039	/
Ant.0	Level1&2&3	QPSK	Right Tilt	0	20300	1745	1	Mid	-0.05	0.029	23.00	23.50	1.122	0.033	/
Ant.0	Level1&2&3	QPSK	Right Tilt	0	20175	1732.5	50	High	-0.02	0.022	21.93	22.50	1.140	0.025	/
Body-worn															
Ant.1	Level4	QPSK	Front Side	15	20300	1745	1	Mid	-0.18	0.186	21.43	21.70	1.064	0.198	/
Ant.1	Level4	QPSK	Front Side	15	20050	1720	50	High	-0.10	0.190	21.41	21.70	1.069	0.203	/
Ant.1	Level4	QPSK	Back Side	15	20300	1745	1	Mid	0.15	0.239	21.43	21.70	1.064	0.254	/
Ant.1	Level4	QPSK	Back Side	15	20050	1720	50	High	-0.08	0.240	21.41	21.70	1.069	0.257	/
Ant.1	Level5&6	QPSK	Front Side	15	20300	1745	1	Mid	-0.16	0.132	19.99	20.20	1.050	0.138	/
Ant.1	Level5&6	QPSK	Front Side	15	20050	1720	50	High	-0.08	0.130	19.85	20.20	1.084	0.141	/
Ant.1	Level5&6	QPSK	Back Side	15	20300	1745	1	Mid	0.05	0.171	19.99	20.20	1.050	0.179	/
Ant.1	Level5&6	QPSK	Back Side	15	20050	1720	50	High	0.04	0.169	19.85	20.20	1.084	0.183	/
Ant.0	Level4	QPSK	Front Side	15	20300	1745	1	Mid	-0.18	0.127	22.42	23.00	1.143	0.145	/
Ant.0	Level4	QPSK	Front Side	15	20050	1720	50	High	-0.11	0.124	21.85	22.50	1.161	0.144	/
Ant.0	Level4	QPSK	Back Side	15	20300	1745	1	Mid	0.13	0.265	22.42	23.00	1.143	0.303	20#
Ant.0	Level4	QPSK	Back Side	15	20050	1720	50	High	0.14	0.260	21.85	22.50	1.161	0.302	/
Ant.0	Level5&6	QPSK	Front Side	15	20300	1745	1	Mid	-0.19	0.090	21.06	21.50	1.107	0.100	/
Ant.0	Level5&6	QPSK	Front Side	15	20050	1720	50	High	-0.10	0.086	20.94	21.50	1.138	0.098	/
Ant.0	Level5&6	QPSK	Back Side	15	20300	1745	1	Mid	-0.01	0.191	21.06	21.50	1.107	0.211	/

Ant.0	Level5&6	QPSK	Back Side	15	20050	1720	50	High	-0.16	0.186	20.94	21.50	1.138	0.212	/
Hotspot															
Ant.1	Level5&6	QPSK	Front Side	10	20300	1745	1	Mid	0.17	0.213	19.99	20.20	1.050	0.224	/
Ant.1	Level5&6	QPSK	Front Side	10	20050	1720	50	High	0.13	0.222	19.85	20.20	1.084	0.241	/
Ant.1	Level5&6	QPSK	Back Side	10	20300	1745	1	Mid	0.01	0.288	19.99	20.20	1.050	0.302	/
Ant.1	Level5&6	QPSK	Back Side	10	20050	1720	50	High	-0.14	0.289	19.85	20.20	1.084	0.313	/
Ant.1	Level5&6	QPSK	Right Edge	10	20300	1745	1	Mid	0.19	0.059	19.99	20.20	1.050	0.062	/
Ant.1	Level5&6	QPSK	Right Edge	10	20050	1720	50	High	-0.07	0.062	19.85	20.20	1.084	0.067	/
Ant.1	Level5&6	QPSK	Top Edge	10	20300	1745	1	Mid	-0.18	0.371	19.99	20.20	1.050	0.389	/
Ant.1	Level5&6	QPSK	Top Edge	10	20050	1720	50	High	-0.15	0.368	19.85	20.20	1.084	0.399	/
Ant.0	Level5&6	QPSK	Front Side	10	20300	1745	1	Mid	-0.05	0.170	21.06	21.50	1.107	0.188	/
Ant.0	Level5&6	QPSK	Front Side	10	20050	1720	50	High	-0.19	0.171	20.94	21.50	1.138	0.195	/
Ant.0	Level5&6	QPSK	Back Side	10	20300	1745	1	Mid	0.11	0.335	21.06	21.50	1.107	0.371	/
Ant.0	Level5&6	QPSK	Back Side	10	20050	1720	50	High	-0.01	0.332	20.94	21.50	1.138	0.378	/
Ant.0	Level5&6	QPSK	Left Edge	10	20300	1745	1	Mid	-0.12	0.060	21.06	21.50	1.107	0.066	/
Ant.0	Level5&6	QPSK	Left Edge	10	20050	1720	50	High	0.09	0.060	20.94	21.50	1.138	0.068	/
Ant.0	Level5&6	QPSK	Right Edge	10	20300	1745	1	Mid	-0.02	0.032	21.06	21.50	1.107	0.035	/
Ant.0	Level5&6	QPSK	Right Edge	10	20050	1720	50	High	-0.15	0.033	20.94	21.50	1.138	0.038	/
Ant.0	Level5&6	QPSK	Bottom Edge	10	20300	1745	1	Mid	-0.01	0.535	21.06	21.50	1.107	0.592	/
Ant.0	Level5&6	QPSK	Bottom Edge	10	20050	1720	50	High	-0.14	0.527	20.94	21.50	1.138	0.600	21#
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.8LTE Band 5 (10MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.1	Level1	QPSK	Left Cheek	0	20525	836.5	1	Mid	-0.08	0.365	22.55	23.20	1.161	0.424	/
Ant.1	Level1	QPSK	Left Cheek	0	20525	836.5	50	Low	-0.10	0.368	22.51	23.20	1.172	0.431	/
Ant.1	Level1	QPSK	Left Tilt	0	20525	836.5	1	Mid	-0.05	0.312	22.55	23.20	1.161	0.362	/
Ant.1	Level1	QPSK	Left Tilt	0	20525	836.5	50	Low	0.11	0.309	22.51	23.20	1.172	0.362	/
Ant.1	Level1	QPSK	Right Cheek	0	20525	836.5	1	Mid	0.00	0.515	22.55	23.20	1.161	0.598	22#
Ant.1	Level1	QPSK	Right Cheek	0	20525	836.5	50	Low	-0.18	0.509	22.51	23.20	1.172	0.597	/
Ant.1	Level1	QPSK	Right Tilt	0	20525	836.5	1	Mid	-0.15	0.511	22.55	23.20	1.161	0.594	/
Ant.1	Level1	QPSK	Right Tilt	0	20525	836.5	50	Low	0.15	0.495	22.51	23.20	1.172	0.580	/
Ant.1	Level2&3	QPSK	Left Cheek	0	20525	836.5	1	Mid	0.07	0.256	21.07	21.70	1.156	0.296	/
Ant.1	Level2&3	QPSK	Left Cheek	0	20525	836.5	50	Low	0.08	0.260	20.96	21.70	1.186	0.308	/
Ant.1	Level2&3	QPSK	Left Tilt	0	20525	836.5	1	Mid	-0.14	0.221	21.07	21.70	1.156	0.256	/
Ant.1	Level2&3	QPSK	Left Tilt	0	20525	836.5	50	Low	-0.18	0.224	20.96	21.70	1.186	0.266	/
Ant.1	Level2&3	QPSK	Right Cheek	0	20525	836.5	1	Mid	0.04	0.390	21.07	21.70	1.156	0.451	/
Ant.1	Level2&3	QPSK	Right Cheek	0	20525	836.5	50	Low	-0.16	0.383	20.96	21.70	1.186	0.454	/
Ant.1	Level2&3	QPSK	Right Tilt	0	20525	836.5	1	Mid	-0.17	0.361	21.07	21.70	1.156	0.417	/

Ant.1	Level2&3	QPSK	Right Tilt	0	20525	836.5	50	Low	0.19	0.353	20.96	21.70	1.186	0.419	/
Ant.0	Level1&2&3	QPSK	Left Cheek	0	20525	836.5	1	Mid	0.03	0.123	24.09	25.00	1.233	0.152	/
Ant.0	Level1&2&3	QPSK	Left Cheek	0	20525	836.5	50	Low	-0.11	0.100	23.09	24.00	1.233	0.123	/
Ant.0	Level1&2&3	QPSK	Left Tilt	0	20525	836.5	1	Mid	0.17	0.065	24.09	25.00	1.233	0.080	/
Ant.0	Level1&2&3	QPSK	Left Tilt	0	20525	836.5	50	Low	0.07	0.052	23.09	24.00	1.233	0.064	/
Ant.0	Level1&2&3	QPSK	Right Cheek	0	20525	836.5	1	Mid	0.18	0.100	24.09	25.00	1.233	0.123	/
Ant.0	Level1&2&3	QPSK	Right Cheek	0	20525	836.5	50	Low	-0.18	0.075	23.09	24.00	1.233	0.092	/
Ant.0	Level1&2&3	QPSK	Right Tilt	0	20525	836.5	1	Mid	0.12	0.054	24.09	25.00	1.233	0.067	/
Ant.0	Level1&2&3	QPSK	Right Tilt	0	20525	836.5	50	Low	-0.14	0.045	23.09	24.00	1.233	0.055	/
Body-worn															
Ant.1	Level4&5&6	QPSK	Front Side	15	20525	836.5	1	Mid	-0.17	0.093	24.10	24.70	1.148	0.107	/
Ant.1	Level4&5&6	QPSK	Front Side	15	20525	836.5	50	Low	-0.06	0.091	23.00	23.70	1.175	0.107	/
Ant.1	Level4&5&6	QPSK	Back Side	15	20525	836.5	1	Mid	-0.06	0.112	24.10	24.70	1.148	0.129	/
Ant.1	Level4&5&6	QPSK	Back Side	15	20525	836.5	50	Low	-0.07	0.108	23.00	23.70	1.175	0.127	/
Ant.0	Level4	QPSK	Front Side	15	20525	836.5	1	Mid	-0.02	0.090	24.09	25.00	1.233	0.111	/
Ant.0	Level4	QPSK	Front Side	15	20525	836.5	50	Low	0.18	0.078	23.09	24.00	1.233	0.096	/
Ant.0	Level4	QPSK	Back Side	15	20525	836.5	1	Mid	-0.05	0.118	24.09	25.00	1.233	0.146	23#
Ant.0	Level4	QPSK	Back Side	15	20525	836.5	50	Low	-0.18	0.097	23.09	24.00	1.233	0.120	/
Ant.0	Level5&6	QPSK	Front Side	15	20525	836.5	1	Mid	0.07	0.061	22.67	23.50	1.211	0.074	/
Ant.0	Level5&6	QPSK	Front Side	15	20525	836.5	50	Low	0.09	0.053	22.59	23.50	1.233	0.065	/
Ant.0	Level5&6	QPSK	Back Side	15	20525	836.5	1	Mid	0.17	0.087	22.67	23.50	1.211	0.105	/
Ant.0	Level5&6	QPSK	Back Side	15	20525	836.5	50	Low	-0.08	0.071	22.59	23.50	1.233	0.088	/
Hotspot															
Ant.1	Level5&6	QPSK	Front Side	10	20525	836.5	1	Mid	-0.18	0.116	24.10	24.70	1.148	0.133	/
Ant.1	Level5&6	QPSK	Front Side	10	20525	836.5	50	Low	0.15	0.093	23.00	23.70	1.175	0.109	/
Ant.1	Level5&6	QPSK	Back Side	10	20525	836.5	1	Mid	-0.13	0.132	24.10	24.70	1.148	0.152	/
Ant.1	Level5&6	QPSK	Back Side	10	20525	836.5	50	Low	-0.07	0.104	23.00	23.70	1.175	0.122	/
Ant.1	Level5&6	QPSK	Right Edge	10	20525	836.5	1	Mid	-0.05	0.097	24.10	24.70	1.148	0.111	/
Ant.1	Level5&6	QPSK	Right Edge	10	20525	836.5	50	Low	0.19	0.077	23.00	23.70	1.175	0.090	/
Ant.1	Level5&6	QPSK	Top Edge	10	20525	836.5	1	Mid	-0.16	0.133	24.10	24.70	1.148	0.153	24#
Ant.1	Level5&6	QPSK	Top Edge	10	20525	836.5	50	Low	-0.16	0.108	23.00	23.70	1.175	0.127	/
Ant.0	Level5&6	QPSK	Front Side	10	20525	836.5	1	Mid	-0.11	0.061	22.67	23.50	1.211	0.074	/
Ant.0	Level5&6	QPSK	Front Side	10	20525	836.5	50	Low	-0.04	0.058	22.59	23.50	1.233	0.072	/
Ant.0	Level5&6	QPSK	Back Side	10	20525	836.5	1	Mid	-0.19	0.107	22.67	23.50	1.211	0.130	/
Ant.0	Level5&6	QPSK	Back Side	10	20525	836.5	50	Low	0.14	0.103	22.59	23.50	1.233	0.127	/
Ant.0	Level5&6	QPSK	Left Edge	10	20525	836.5	1	Mid	-0.16	0.047	22.67	23.50	1.211	0.057	/
Ant.0	Level5&6	QPSK	Left Edge	10	20525	836.5	50	Low	-0.05	0.045	22.59	23.50	1.233	0.055	/
Ant.0	Level5&6	QPSK	Right Edge	10	20525	836.5	1	Mid	-0.04	0.065	22.67	23.50	1.211	0.079	/
Ant.0	Level5&6	QPSK	Right Edge	10	20525	836.5	50	Low	-0.07	0.062	22.59	23.50	1.233	0.076	/
Ant.0	Level5&6	QPSK	Bottom Edge	10	20525	836.5	1	Mid	0.18	0.070	22.67	23.50	1.211	0.085	/
Ant.0	Level5&6	QPSK	Bottom Edge	10	20525	836.5	50	Low	0.12	0.067	22.59	23.50	1.233	0.083	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.9LTE Band 7 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.1	Level1	QPSK	Left Cheek	0	20850	2510	1	Mid	-0.16	0.210	15.48	15.90	1.102	0.231	/
Ant.1	Level1	QPSK	Left Cheek	0	21350	2560	50	High	-0.19	0.208	15.50	15.90	1.096	0.228	/
Ant.1	Level1	QPSK	Left Tilt	0	20850	2510	1	Mid	-0.09	0.282	15.48	15.90	1.102	0.311	/
Ant.1	Level1	QPSK	Left Tilt	0	21350	2560	50	High	-0.15	0.291	15.50	15.90	1.096	0.319	/
Ant.1	Level1	QPSK	Right Cheek	0	20850	2510	1	Mid	0.05	0.590	15.48	15.90	1.102	0.650	/
Ant.1	Level1	QPSK	Right Cheek	0	21350	2560	50	High	0.03	0.587	15.50	15.90	1.096	0.644	/
Ant.1	Level1	QPSK	Right Tilt	0	20850	2510	1	Mid	0.09	0.673	15.48	15.90	1.102	0.741	/
Ant.1	Level1	QPSK	Right Tilt	0	21350	2560	50	High	0.11	0.679	15.50	15.90	1.096	0.745	25#
Ant.1	Level2&3	QPSK	Left Cheek	0	20850	2510	1	Mid	0.11	0.147	14.03	14.40	1.089	0.160	/
Ant.1	Level2&3	QPSK	Left Cheek	0	21350	2560	50	High	0.05	0.144	14.11	14.40	1.069	0.154	/
Ant.1	Level2&3	QPSK	Left Tilt	0	20850	2510	1	Mid	-0.15	0.200	14.03	14.40	1.089	0.218	/
Ant.1	Level2&3	QPSK	Left Tilt	0	21350	2560	50	High	-0.10	0.191	14.11	14.40	1.069	0.204	/
Ant.1	Level2&3	QPSK	Right Cheek	0	20850	2510	1	Mid	0.04	0.415	14.03	14.40	1.089	0.452	/
Ant.1	Level2&3	QPSK	Right Cheek	0	21350	2560	50	High	-0.19	0.413	14.11	14.40	1.069	0.442	/
Ant.1	Level2&3	QPSK	Right Tilt	0	20850	2510	1	Mid	-0.12	0.478	14.03	14.40	1.089	0.521	/
Ant.1	Level2&3	QPSK	Right Tilt	0	21350	2560	50	High	-0.10	0.473	14.11	14.40	1.069	0.506	/
Ant.0	Level1&2&3	QPSK	Left Cheek	0	20850	2510	1	Mid	0.15	0.170	23.26	23.80	1.132	0.193	/
Ant.0	Level1&2&3	QPSK	Left Cheek	0	20850	2510	50	High	-0.14	0.134	22.17	22.80	1.156	0.155	/
Ant.0	Level1&2&3	QPSK	Left Tilt	0	20850	2510	1	Mid	-0.13	0.118	23.26	23.80	1.132	0.134	/
Ant.0	Level1&2&3	QPSK	Left Tilt	0	20850	2510	50	High	-0.18	0.101	22.17	22.80	1.156	0.117	/
Ant.0	Level1&2&3	QPSK	Right Cheek	0	20850	2510	1	Mid	-0.01	0.340	23.26	23.80	1.132	0.385	/
Ant.0	Level1&2&3	QPSK	Right Cheek	0	20850	2510	50	High	0.00	0.243	22.17	22.80	1.156	0.281	/
Ant.0	Level1&2&3	QPSK	Right Tilt	0	20850	2510	1	Mid	-0.07	0.180	23.26	23.80	1.132	0.204	/
Ant.0	Level1&2&3	QPSK	Right Tilt	0	20850	2510	50	High	0.00	0.159	22.17	22.80	1.156	0.184	/
Body-worn															
Ant.1	Level4	QPSK	Front Side	15	20850	2510	1	Mid	0.01	0.118	19.04	19.40	1.086	0.128	/
Ant.1	Level4	QPSK	Front Side	15	21350	2560	50	High	0.19	0.118	19.04	19.40	1.086	0.128	/
Ant.1	Level4	QPSK	Back Side	15	20850	2510	1	Mid	-0.11	0.171	19.04	19.40	1.086	0.186	/
Ant.1	Level4	QPSK	Back Side	15	21350	2560	50	High	-0.12	0.173	19.04	19.40	1.086	0.188	/
Ant.1	Level5&6	QPSK	Front Side	15	20850	2510	1	Mid	-0.03	0.097	18.10	18.40	1.072	0.104	/
Ant.1	Level5&6	QPSK	Front Side	15	21350	2560	50	High	0.15	0.099	18.14	18.40	1.062	0.105	/
Ant.1	Level5&6	QPSK	Back Side	15	20850	2510	1	Mid	0.12	0.138	18.10	18.40	1.072	0.148	/
Ant.1	Level5&6	QPSK	Back Side	15	21350	2560	50	High	-0.16	0.140	18.14	18.40	1.062	0.149	/
Ant.0	Level4	QPSK	Front Side	15	20850	2510	1	Mid	0.10	0.159	22.33	22.80	1.114	0.177	/
Ant.0	Level4	QPSK	Front Side	15	20850	2510	50	High	0.16	0.156	22.20	22.80	1.148	0.179	/
Ant.0	Level4	QPSK	Back Side	15	20850	2510	1	Mid	0.15	0.240	22.33	22.80	1.114	0.267	/
Ant.0	Level4	QPSK	Back Side	15	20850	2510	50	High	0.00	0.236	22.20	22.80	1.148	0.271	26#

Ant.0	Level5&6	QPSK	Front Side	15	21100	2535	1	Low	0.02	0.108	20.83	21.30	1.114	0.120	/
Ant.0	Level5&6	QPSK	Front Side	15	21100	2535	50	High	-0.07	0.110	20.73	21.30	1.140	0.125	/
Ant.0	Level5&6	QPSK	Back Side	15	21100	2535	1	Low	0.14	0.168	20.83	21.30	1.114	0.187	/
Ant.0	Level5&6	QPSK	Back Side	15	21100	2535	50	High	-0.14	0.170	20.73	21.30	1.140	0.194	/
Hotspot															
Ant.1	Level5&6	QPSK	Front Side	10	20850	2510	1	Mid	0.16	0.187	18.10	18.40	1.072	0.200	/
Ant.1	Level5&6	QPSK	Front Side	10	21350	2560	50	High	0.00	0.184	18.14	18.40	1.062	0.195	/
Ant.1	Level5&6	QPSK	Back Side	10	20850	2510	1	Mid	0.11	0.310	18.10	18.40	1.072	0.332	/
Ant.1	Level5&6	QPSK	Back Side	10	21350	2560	50	High	0.14	0.306	18.14	18.40	1.062	0.325	/
Ant.1	Level5&6	QPSK	Right Edge	10	20850	2510	1	Mid	0.17	0.158	18.10	18.40	1.072	0.169	/
Ant.1	Level5&6	QPSK	Right Edge	10	21350	2560	50	High	-0.07	0.160	18.14	18.40	1.062	0.170	/
Ant.1	Level5&6	QPSK	Top Edge	10	20850	2510	1	Mid	-0.12	0.529	18.10	18.40	1.072	0.567	27#
Ant.1	Level5&6	QPSK	Top Edge	10	21350	2560	50	High	-0.06	0.518	18.14	18.40	1.062	0.550	/
Ant.0	Level5&6	QPSK	Front Side	10	21100	2535	1	Low	-0.05	0.216	20.83	21.30	1.114	0.241	/
Ant.0	Level5&6	QPSK	Front Side	10	21100	2535	50	High	-0.09	0.227	20.73	21.30	1.140	0.259	/
Ant.0	Level5&6	QPSK	Back Side	10	21100	2535	1	Low	0.08	0.341	20.83	21.30	1.114	0.380	/
Ant.0	Level5&6	QPSK	Back Side	10	21100	2535	50	High	0.00	0.346	20.73	21.30	1.140	0.395	/
Ant.0	Level5&6	QPSK	Left Edge	10	21100	2535	1	Low	0.11	0.164	20.83	21.30	1.114	0.183	/
Ant.0	Level5&6	QPSK	Left Edge	10	21100	2535	50	High	-0.13	0.174	20.73	21.30	1.140	0.198	/
Ant.0	Level5&6	QPSK	Right Edge	10	21100	2535	1	Low	-0.14	0.021	20.83	21.30	1.114	0.023	/
Ant.0	Level5&6	QPSK	Right Edge	10	21100	2535	50	High	-0.08	0.006	20.73	21.30	1.140	0.007	/
Ant.0	Level5&6	QPSK	Bottom Edge	10	21100	2535	1	Low	-0.04	0.167	20.83	21.30	1.114	0.186	/
Ant.0	Level5&6	QPSK	Bottom Edge	10	21100	2535	50	High	-0.04	0.157	20.73	21.30	1.140	0.179	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.10 LTE Band 12 (10MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.1	Level1&2&3	QPSK	Left Cheek	0	23130	711	1	Mid	-0.11	0.060	23.21	23.70	1.119	0.067	/
Ant.1	Level1&2&3	QPSK	Left Cheek	0	23130	711	50	Low	0.07	0.048	22.13	22.70	1.140	0.055	/
Ant.1	Level1&2&3	QPSK	Left Tilt	0	23130	711	1	Mid	-0.07	0.054	23.21	23.70	1.119	0.060	/
Ant.1	Level1&2&3	QPSK	Left Tilt	0	23130	711	50	Low	0.01	0.046	22.13	22.70	1.140	0.052	/
Ant.1	Level1&2&3	QPSK	Right Cheek	0	23130	711	1	Mid	0.15	0.092	23.21	23.70	1.119	0.103	28#
Ant.1	Level1&2&3	QPSK	Right Cheek	0	23130	711	50	Low	0.11	0.077	22.13	22.70	1.140	0.088	/
Ant.1	Level1&2&3	QPSK	Right Tilt	0	23130	711	1	Mid	0.19	0.088	23.21	23.70	1.119	0.099	/
Ant.1	Level1&2&3	QPSK	Right Tilt	0	23130	711	50	Low	-0.02	0.071	22.13	22.70	1.140	0.081	/
Ant.0	Level1&2&3	QPSK	Left Cheek	0	23095	707.5	1	Mid	-0.07	0.075	23.23	24.00	1.194	0.090	/
Ant.0	Level1&2&3	QPSK	Left Cheek	0	23060	704	50	High	-0.18	0.058	22.19	23.00	1.205	0.070	/
Ant.0	Level1&2&3	QPSK	Left Tilt	0	23095	707.5	1	Mid	-0.04	0.023	23.23	24.00	1.194	0.027	/
Ant.0	Level1&2&3	QPSK	Left Tilt	0	23060	704	50	High	-0.13	0.017	22.19	23.00	1.205	0.020	/

Ant.0	Level1&2&3	QPSK	Right Cheek	0	23095	707.5	1	Mid	-0.10	0.059	23.23	24.00	1.194	0.070	/
Ant.0	Level1&2&3	QPSK	Right Cheek	0	23060	704	50	High	-0.10	0.049	22.19	23.00	1.205	0.059	/
Ant.0	Level1&2&3	QPSK	Right Tilt	0	23095	707.5	1	Mid	-0.05	0.028	23.23	24.00	1.194	0.033	/
Ant.0	Level1&2&3	QPSK	Right Tilt	0	23060	704	50	High	-0.02	0.020	22.19	23.00	1.205	0.024	/
Body-worn															
Ant.1	Level4&5&6	QPSK	Front Side	15	23130	711	1	Mid	-0.18	0.013	23.21	23.70	1.119	0.015	/
Ant.1	Level4&5&6	QPSK	Front Side	15	23130	711	50	Low	-0.06	0.008	22.13	22.70	1.140	0.009	/
Ant.1	Level4&5&6	QPSK	Back Side	15	23130	711	1	Mid	-0.14	0.019	23.21	23.70	1.119	0.021	/
Ant.1	Level4&5&6	QPSK	Back Side	15	23130	711	50	Low	-0.12	0.013	22.13	22.70	1.140	0.015	/
Ant.0	Level4&5&6	QPSK	Front Side	15	23095	707.5	1	Mid	0.00	0.090	23.23	24.00	1.194	0.107	/
Ant.0	Level4&5&6	QPSK	Front Side	15	23060	704	50	High	-0.16	0.082	22.19	23.00	1.205	0.099	/
Ant.0	Level4&5&6	QPSK	Back Side	15	23095	707.5	1	Mid	0.03	0.126	23.23	24.00	1.194	0.150	29#
Ant.0	Level4&5&6	QPSK	Back Side	15	23060	704	50	High	-0.12	0.114	22.19	23.00	1.205	0.137	/
Hotspot															
Ant.1	Level5&6	QPSK	Front Side	10	23130	711	1	Mid	0.15	0.026	23.21	23.70	1.119	0.029	/
Ant.1	Level5&6	QPSK	Front Side	10	23130	711	50	Low	0.11	0.021	22.13	22.70	1.140	0.024	/
Ant.1	Level5&6	QPSK	Back Side	10	23130	711	1	Mid	0.18	0.047	23.21	23.70	1.119	0.053	/
Ant.1	Level5&6	QPSK	Back Side	10	23130	711	50	Low	0.02	0.039	22.13	22.70	1.140	0.044	/
Ant.1	Level5&6	QPSK	Right Edge	10	23130	711	1	Mid	-0.04	0.000	23.21	23.70	1.119	0.000	/
Ant.1	Level5&6	QPSK	Right Edge	10	23130	711	50	Low	0.08	0.000	22.13	22.70	1.140	0.000	/
Ant.1	Level5&6	QPSK	Top Edge	10	23130	711	1	Mid	-0.09	0.039	23.21	23.70	1.119	0.044	/
Ant.1	Level5&6	QPSK	Top Edge	10	23130	711	50	Low	0.02	0.030	22.13	22.70	1.140	0.034	/
Ant.0	Level5&6	QPSK	Front Side	10	23095	707.5	1	Mid	0.17	0.056	23.23	24.00	1.194	0.067	/
Ant.0	Level5&6	QPSK	Front Side	10	23060	704	50	High	-0.01	0.048	22.19	23.00	1.205	0.058	/
Ant.0	Level5&6	QPSK	Back Side	10	23095	707.5	1	Mid	0.06	0.099	23.23	24.00	1.194	0.118	30#
Ant.0	Level5&6	QPSK	Back Side	10	23060	704	50	High	0.03	0.083	22.19	23.00	1.205	0.100	/
Ant.0	Level5&6	QPSK	Left Edge	10	23095	707.5	1	Mid	0.18	0.057	23.23	24.00	1.194	0.068	/
Ant.0	Level5&6	QPSK	Left Edge	10	23060	704	50	High	0.02	0.053	22.19	23.00	1.205	0.064	/
Ant.0	Level5&6	QPSK	Right Edge	10	23095	707.5	1	Mid	-0.07	0.093	23.23	24.00	1.194	0.111	/
Ant.0	Level5&6	QPSK	Right Edge	10	23060	704	50	High	-0.13	0.059	22.19	23.00	1.205	0.071	/
Ant.0	Level5&6	QPSK	Bottom Edge	10	23095	707.5	1	Mid	0.00	0.046	23.23	24.00	1.194	0.055	/
Ant.0	Level5&6	QPSK	Bottom Edge	10	23060	704	50	High	0.12	0.028	22.19	23.00	1.205	0.034	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.11 LTE Band 13 (10MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.1	Level1&2&3	QPSK	Left Cheek	0	23230	782	1	Mid	-0.01	0.189	23.90	24.20	1.072	0.203	/
Ant.1	Level1&2&3	QPSK	Left Cheek	0	23230	782	50	Mid	0.03	0.149	22.83	23.20	1.089	0.162	/
Ant.1	Level1&2&3	QPSK	Left Tilt	0	23230	782	1	Mid	0.05	0.176	23.90	24.20	1.072	0.189	/

Ant.1	Level1&2&3	QPSK	Left Tilt	0	23230	782	50	Mid	0.13	0.139	22.83	23.20	1.089	0.151	/
Ant.1	Level1&2&3	QPSK	Right Cheek	0	23230	782	1	Mid	0.09	0.318	23.90	24.20	1.072	0.341	31#
Ant.1	Level1&2&3	QPSK	Right Cheek	0	23230	782	50	Mid	0.05	0.252	22.83	23.20	1.089	0.274	/
Ant.1	Level1&2&3	QPSK	Right Tilt	0	23230	782	1	Mid	-0.02	0.274	23.90	24.20	1.072	0.294	/
Ant.1	Level1&2&3	QPSK	Right Tilt	0	23230	782	50	Mid	0.00	0.224	22.83	23.20	1.089	0.244	/
Ant.0	Level1&2&3	QPSK	Left Cheek	0	23230	782	1	Mid	-0.06	0.131	23.93	24.50	1.140	0.149	/
Ant.0	Level1&2&3	QPSK	Left Cheek	0	23230	782	50	Mid	0.09	0.107	22.89	23.50	1.151	0.123	/
Ant.0	Level1&2&3	QPSK	Left Tilt	0	23230	782	1	Mid	0.19	0.075	23.93	24.50	1.140	0.086	/
Ant.0	Level1&2&3	QPSK	Left Tilt	0	23230	782	50	Mid	-0.03	0.064	22.89	23.50	1.151	0.074	/
Ant.0	Level1&2&3	QPSK	Right Cheek	0	23230	782	1	Mid	0.12	0.104	23.93	24.50	1.140	0.119	/
Ant.0	Level1&2&3	QPSK	Right Cheek	0	23230	782	50	Mid	-0.10	0.088	22.89	23.50	1.151	0.101	/
Ant.0	Level1&2&3	QPSK	Right Tilt	0	23230	782	1	Mid	-0.18	0.065	23.93	24.50	1.140	0.074	/
Ant.0	Level1&2&3	QPSK	Right Tilt	0	23230	782	50	Mid	-0.09	0.052	22.89	23.50	1.151	0.060	/
Body-worn															
Ant.1	Level4&5&6	QPSK	Front Side	15	23230	782	1	Mid	0.18	0.029	23.90	24.20	1.072	0.031	/
Ant.1	Level4&5&6	QPSK	Front Side	15	23230	782	50	Mid	-0.10	0.021	22.83	23.20	1.089	0.023	/
Ant.1	Level4&5&6	QPSK	Back Side	15	23230	782	1	Mid	-0.04	0.057	23.90	24.20	1.072	0.061	/
Ant.1	Level4&5&6	QPSK	Back Side	15	23230	782	50	Mid	-0.14	0.048	22.83	23.20	1.089	0.052	/
Ant.0	Level4&5&6	QPSK	Front Side	15	23230	782	1	Mid	0.15	0.111	23.93	24.50	1.140	0.127	/
Ant.0	Level4&5&6	QPSK	Front Side	15	23230	782	50	Mid	0.12	0.087	22.89	23.50	1.151	0.100	/
Ant.0	Level4&5&6	QPSK	Back Side	15	23230	782	1	Mid	0.00	0.160	23.93	24.50	1.140	0.182	32#
Ant.0	Level4&5&6	QPSK	Back Side	15	23230	782	50	Mid	-0.02	0.122	22.89	23.50	1.151	0.140	/
Hotspot															
Ant.1	Level5&6	QPSK	Front Side	10	23230	782	1	Mid	-0.01	0.056	23.90	24.20	1.072	0.060	/
Ant.1	Level5&6	QPSK	Front Side	10	23230	782	50	Mid	0.14	0.045	22.83	23.20	1.089	0.049	/
Ant.1	Level5&6	QPSK	Back Side	10	23230	782	1	Mid	-0.13	0.073	23.90	24.20	1.072	0.078	/
Ant.1	Level5&6	QPSK	Back Side	10	23230	782	50	Mid	-0.15	0.059	22.83	23.20	1.089	0.064	/
Ant.1	Level5&6	QPSK	Right Edge	10	23230	782	1	Mid	-0.18	0.056	23.90	24.20	1.072	0.060	/
Ant.1	Level5&6	QPSK	Right Edge	10	23230	782	50	Mid	-0.17	0.047	22.83	23.20	1.089	0.051	/
Ant.1	Level5&6	QPSK	Top Edge	10	23230	782	1	Mid	0.18	0.070	23.90	24.20	1.072	0.075	/
Ant.1	Level5&6	QPSK	Top Edge	10	23230	782	50	Mid	-0.04	0.055	22.83	23.20	1.089	0.060	/
Ant.0	Level5&6	QPSK	Front Side	10	23230	782	1	Mid	-0.16	0.099	23.93	24.50	1.140	0.113	/
Ant.0	Level5&6	QPSK	Front Side	10	23230	782	50	Mid	0.02	0.075	22.89	23.50	1.151	0.086	/
Ant.0	Level5&6	QPSK	Back Side	10	23230	782	1	Mid	0.00	0.170	23.93	24.50	1.140	0.194	33#
Ant.0	Level5&6	QPSK	Back Side	10	23230	782	50	Mid	0.08	0.125	22.89	23.50	1.151	0.144	/
Ant.0	Level5&6	QPSK	Left Edge	10	23230	782	1	Mid	0.09	0.090	23.93	24.50	1.140	0.103	/
Ant.0	Level5&6	QPSK	Left Edge	10	23230	782	50	Mid	-0.16	0.064	22.89	23.50	1.151	0.074	/
Ant.0	Level5&6	QPSK	Right Edge	10	23230	782	1	Mid	0.10	0.154	23.93	24.50	1.140	0.176	/
Ant.0	Level5&6	QPSK	Right Edge	10	23230	782	50	Mid	0.10	0.114	22.89	23.50	1.151	0.131	/
Ant.0	Level5&6	QPSK	Bottom Edge	10	23230	782	1	Mid	0.01	0.135	23.93	24.50	1.140	0.154	/
Ant.0	Level5&6	QPSK	Bottom Edge	10	23230	782	50	Mid	0.02	0.111	22.89	23.50	1.151	0.128	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.12 LTE Band 26 (10MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.1	Level1	QPSK	Left Cheek	0	26765	821.5	1	Mid	0.18	0.470	22.58	23.20	1.153	0.542	/
Ant.1	Level1	QPSK	Left Cheek	0	26865	831.5	50	Mid	-0.12	0.377	22.65	23.20	1.135	0.428	/
Ant.1	Level1	QPSK	Left Tilt	0	26765	821.5	1	Mid	0.03	0.384	22.58	23.20	1.153	0.443	/
Ant.1	Level1	QPSK	Left Tilt	0	26865	831.5	50	Mid	-0.06	0.323	22.65	23.20	1.135	0.367	/
Ant.1	Level1	QPSK	Right Cheek	0	26765	821.5	1	Mid	0.00	0.740	22.58	23.20	1.153	0.853	/
Ant.1	Level1	QPSK	Right Cheek	0	26865	831.5	50	Mid	0.19	0.620	22.65	23.20	1.135	0.704	/
Ant.1	Level1	QPSK	Right Tilt	0	26765	821.5	1	Mid	-0.11	0.613	22.58	23.20	1.153	0.707	/
Ant.1	Level1	QPSK	Right Tilt	0	26865	831.5	50	Mid	0.18	0.523	22.65	23.20	1.135	0.594	/
Ant.1	Level1	QPSK	Right Cheek	0	26865	831.5	1	Mid	0.10	0.703	22.52	23.20	1.169	0.822	/
Ant.1	Level1	QPSK	Right Cheek	0	26965	841.5	1	Mid	-0.04	0.766	22.53	23.20	1.167	0.894	34#
Ant.1	Level1	QPSK	Right Cheek	0	26765	821.5	50	Low	-0.12	0.735	22.64	23.20	1.138	0.836	/
Ant.1	Level1	QPSK	Right Cheek	0	26965	841.5	50	Low	-0.13	0.741	22.59	23.20	1.151	0.853	/
Ant.1	Level1	QPSK	Right Cheek	0	26765	821.5	100	Low	0.12	0.726	22.59	23.20	1.151	0.835	/
Ant.1	Level2&3	QPSK	Left Cheek	0	26765	821.5	1	Mid	-0.17	0.346	21.59	22.20	1.151	0.398	/
Ant.1	Level2&3	QPSK	Left Cheek	0	26765	821.5	50	High	-0.17	0.349	21.71	22.20	1.119	0.391	/
Ant.1	Level2&3	QPSK	Left Tilt	0	26765	821.5	1	Mid	0.17	0.283	21.59	22.20	1.151	0.326	/
Ant.1	Level2&3	QPSK	Left Tilt	0	26765	821.5	50	High	-0.04	0.299	21.71	22.20	1.119	0.335	/
Ant.1	Level2&3	QPSK	Right Cheek	0	26765	821.5	1	Mid	0.00	0.544	21.59	22.20	1.151	0.626	/
Ant.1	Level2&3	QPSK	Right Cheek	0	26765	821.5	50	High	0.18	0.574	21.71	22.20	1.119	0.643	/
Ant.1	Level2&3	QPSK	Right Tilt	0	26765	821.5	1	Mid	-0.05	0.451	21.59	22.20	1.151	0.519	/
Ant.1	Level2&3	QPSK	Right Tilt	0	26765	821.5	50	High	-0.18	0.484	21.71	22.20	1.119	0.542	/
Ant.0	Level1&2&3	QPSK	Left Cheek	0	26765	821.5	1	Mid	0.16	0.115	23.61	24.50	1.227	0.141	/
Ant.0	Level1&2&3	QPSK	Left Cheek	0	26765	821.5	50	High	0.03	0.084	22.70	23.50	1.202	0.101	/
Ant.0	Level1&2&3	QPSK	Left Tilt	0	26765	821.5	1	Mid	-0.10	0.063	23.61	24.50	1.227	0.077	/
Ant.0	Level1&2&3	QPSK	Left Tilt	0	26765	821.5	50	High	-0.12	0.045	22.70	23.50	1.202	0.054	/
Ant.0	Level1&2&3	QPSK	Right Cheek	0	26765	821.5	1	Mid	-0.03	0.087	23.61	24.50	1.227	0.107	/
Ant.0	Level1&2&3	QPSK	Right Cheek	0	26765	821.5	50	High	0.12	0.070	22.70	23.50	1.202	0.084	/
Ant.0	Level1&2&3	QPSK	Right Tilt	0	26765	821.5	1	Mid	-0.08	0.047	23.61	24.50	1.227	0.058	/
Ant.0	Level1&2&3	QPSK	Right Tilt	0	26765	821.5	50	High	0.07	0.036	22.70	23.50	1.202	0.043	/
Body-worn															
Ant.1	Level4&5&6	QPSK	Front Side	15	26765	821.5	1	Mid	-0.17	0.076	23.54	24.20	1.164	0.088	/
Ant.1	Level4&5&6	QPSK	Front Side	15	26865	831.5	50	Mid	-0.05	0.062	22.64	23.20	1.138	0.071	/
Ant.1	Level4&5&6	QPSK	Back Side	15	26765	821.5	1	Mid	0.01	0.092	23.54	24.20	1.164	0.107	/
Ant.1	Level4&5&6	QPSK	Back Side	15	26865	831.5	50	Mid	0.03	0.075	22.64	23.20	1.138	0.085	/
Ant.0	Level4	QPSK	Front Side	15	26765	821.5	1	Mid	0.08	0.075	23.61	24.50	1.227	0.092	/
Ant.0	Level4	QPSK	Front Side	15	26765	821.5	50	High	0.07	0.069	22.70	23.50	1.202	0.083	/
Ant.0	Level4	QPSK	Back Side	15	26765	821.5	1	Mid	0.07	0.113	23.61	24.50	1.227	0.139	35#

Ant.0	Level4	QPSK	Back Side	15	26765	821.5	50	High	-0.03	0.102	22.70	23.50	1.202	0.123	/
Ant.0	Level5&6	QPSK	Front Side	15	26765	821.5	1	Mid	-0.02	0.058	22.62	23.50	1.225	0.071	/
Ant.0	Level5&6	QPSK	Front Side	15	26865	831.5	50	High	0.02	0.052	22.72	23.50	1.197	0.062	/
Ant.0	Level5&6	QPSK	Back Side	15	26765	821.5	1	Mid	-0.09	0.088	22.62	23.50	1.225	0.108	/
Ant.0	Level5&6	QPSK	Back Side	15	26865	831.5	50	High	-0.11	0.079	22.72	23.50	1.197	0.095	/
Hotspot															
Ant.1	Level5&6	QPSK	Front Side	10	26765	821.5	1	Mid	0.05	0.106	23.54	24.20	1.164	0.123	/
Ant.1	Level5&6	QPSK	Front Side	10	26865	831.5	50	Mid	0.19	0.085	22.64	23.20	1.138	0.097	/
Ant.1	Level5&6	QPSK	Back Side	10	26765	821.5	1	Mid	-0.14	0.120	23.54	24.20	1.164	0.140	/
Ant.1	Level5&6	QPSK	Back Side	10	26865	831.5	50	Mid	-0.15	0.100	22.64	23.20	1.138	0.114	/
Ant.1	Level5&6	QPSK	Right Edge	10	26765	821.5	1	Mid	0.15	0.063	23.54	24.20	1.164	0.073	/
Ant.1	Level5&6	QPSK	Right Edge	10	26865	831.5	50	Mid	-0.03	0.055	22.64	23.20	1.138	0.063	/
Ant.1	Level5&6	QPSK	Top Edge	10	26765	821.5	1	Mid	0.04	0.124	23.54	24.20	1.164	0.144	36#
Ant.1	Level5&6	QPSK	Top Edge	10	26865	831.5	50	Mid	0.10	0.104	22.64	23.20	1.138	0.118	/
Ant.0	Level5&6	QPSK	Front Side	10	26765	821.5	1	Mid	-0.02	0.042	22.62	23.50	1.225	0.051	/
Ant.0	Level5&6	QPSK	Front Side	10	26865	831.5	50	High	0.19	0.036	22.72	23.50	1.197	0.043	/
Ant.0	Level5&6	QPSK	Back Side	10	26765	821.5	1	Mid	-0.09	0.095	22.62	23.50	1.225	0.116	/
Ant.0	Level5&6	QPSK	Back Side	10	26865	831.5	50	High	0.04	0.068	22.72	23.50	1.197	0.081	/
Ant.0	Level5&6	QPSK	Left Edge	10	26765	821.5	1	Mid	0.14	0.033	22.62	23.50	1.225	0.040	/
Ant.0	Level5&6	QPSK	Left Edge	10	26865	831.5	50	High	-0.02	0.029	22.72	23.50	1.197	0.035	/
Ant.0	Level5&6	QPSK	Right Edge	10	26765	821.5	1	Mid	0.11	0.041	22.62	23.50	1.225	0.050	/
Ant.0	Level5&6	QPSK	Right Edge	10	26865	831.5	50	High	-0.01	0.037	22.72	23.50	1.197	0.044	/
Ant.0	Level5&6	QPSK	Bottom Edge	10	26765	821.5	1	Mid	-0.09	0.047	22.62	23.50	1.225	0.058	/
Ant.0	Level5&6	QPSK	Bottom Edge	10	26865	831.5	50	High	0.15	0.042	22.72	23.50	1.197	0.050	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.13 LTE Band 66 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.1	Level1	QPSK	Left Cheek	0	132322	1745	1	Mid	-0.08	0.517	18.16	19.10	1.242	0.642	/
Ant.1	Level1	QPSK	Left Cheek	0	132572	1770	50	Low	0.04	0.541	18.11	19.10	1.256	0.680	/
Ant.1	Level1	QPSK	Left Tilt	0	132322	1745	1	Mid	-0.12	0.587	18.16	19.10	1.242	0.729	/
Ant.1	Level1	QPSK	Left Tilt	0	132572	1770	50	Low	-0.14	0.596	18.11	19.10	1.256	0.749	/
Ant.1	Level1	QPSK	Right Cheek	0	132322	1745	1	Mid	-0.13	0.755	18.16	19.10	1.242	0.937	/
Ant.1	Level1	QPSK	Right Cheek	0	132572	1770	50	Low	0.16	0.784	18.11	19.10	1.256	0.985	/
Ant.1	Level1	QPSK	Right Tilt	0	132322	1745	1	Mid	0.15	0.877	18.16	19.10	1.242	1.089	/
Ant.1	Level1	QPSK	Right Tilt	0	132572	1770	50	Low	0.19	0.926	18.11	19.10	1.256	1.163	37#
Ant.1	Level1	QPSK	Right Cheek	0	132072	1720	1	Mid	0.04	0.730	18.16	19.10	1.242	0.906	/
Ant.1	Level1	QPSK	Right Cheek	0	132572	1770	1	Mid	-0.01	0.762	18.14	19.10	1.247	0.951	/
Ant.1	Level1	QPSK	Right Cheek	0	132072	1720	50	High	-0.14	0.751	18.04	19.10	1.276	0.959	/

Ant.1	Level1	QPSK	Right Cheek	0	132322	1745	50	High	-0.19	0.773	18.08	19.10	1.265	0.978	/
Ant.1	Level1	QPSK	Right Cheek	0	132572	1770	100	Low	-0.10	0.750	18.08	19.10	1.265	0.949	/
Ant.1	Level1	QPSK	Right Tilt	0	132072	1720	1	Mid	0.11	0.850	18.16	19.10	1.242	1.055	/
Ant.1	Level1	QPSK	Right Tilt	0	132572	1770	1	Mid	0.10	0.904	18.14	19.10	1.247	1.128	/
Ant.1	Level1	QPSK	Right Tilt	0	132072	1720	50	High	-0.14	0.886	18.04	19.10	1.276	1.131	/
Ant.1	Level1	QPSK	Right Tilt	0	132322	1745	50	High	-0.04	0.900	18.08	19.10	1.265	1.138	/
Ant.1	Level1	QPSK	Right Tilt	0	132572	1770	100	Low	0.03	0.869	18.08	19.10	1.265	1.099	/
Ant.1	Level2&3	QPSK	Left Cheek	0	132322	1745	1	Mid	-0.05	0.401	17.27	18.10	1.211	0.485	/
Ant.1	Level2&3	QPSK	Left Cheek	0	132322	1745	50	High	0.19	0.413	17.16	18.10	1.242	0.513	/
Ant.1	Level2&3	QPSK	Left Tilt	0	132322	1745	1	Mid	0.00	0.462	17.27	18.10	1.211	0.559	/
Ant.1	Level2&3	QPSK	Left Tilt	0	132322	1745	50	High	-0.01	0.471	17.16	18.10	1.242	0.585	/
Ant.1	Level2&3	QPSK	Right Cheek	0	132322	1745	1	Mid	0.08	0.601	17.27	18.10	1.211	0.728	/
Ant.1	Level2&3	QPSK	Right Cheek	0	132322	1745	50	High	0.08	0.618	17.16	18.10	1.242	0.767	/
Ant.1	Level2&3	QPSK	Right Tilt	0	132322	1745	1	Mid	-0.15	0.695	17.27	18.10	1.211	0.841	/
Ant.1	Level2&3	QPSK	Right Tilt	0	132322	1745	50	High	0.03	0.701	17.16	18.10	1.242	0.870	/
Ant.1	Level2&3	QPSK	Right Tilt	0	132072	1720	1	Mid	-0.12	0.680	17.14	18.10	1.247	0.848	/
Ant.1	Level2&3	QPSK	Right Tilt	0	132572	1770	1	Mid	-0.03	0.656	17.15	18.10	1.245	0.816	/
Ant.1	Level2&3	QPSK	Right Tilt	0	132072	1720	50	Low	-0.08	0.668	17.11	18.10	1.256	0.839	/
Ant.1	Level2&3	QPSK	Right Tilt	0	132572	1770	50	Low	-0.05	0.660	17.16	18.10	1.242	0.819	/
Ant.1	Level2&3	QPSK	Right Tilt	0	132572	1770	100	Low	-0.19	0.671	17.14	18.10	1.247	0.837	/
Ant.0	Level1&2&3	QPSK	Left Cheek	0	132572	1770	1	Mid	-0.11	0.061	22.88	23.80	1.236	0.075	/
Ant.0	Level1&2&3	QPSK	Left Cheek	0	132572	1770	50	Low	0.13	0.047	21.75	22.80	1.274	0.060	/
Ant.0	Level1&2&3	QPSK	Left Tilt	0	132572	1770	1	Mid	0.08	0.035	22.88	23.80	1.236	0.043	/
Ant.0	Level1&2&3	QPSK	Left Tilt	0	132572	1770	50	Low	0.11	0.028	21.75	22.80	1.274	0.036	/
Ant.0	Level1&2&3	QPSK	Right Cheek	0	132572	1770	1	Mid	-0.14	0.050	22.88	23.80	1.236	0.062	/
Ant.0	Level1&2&3	QPSK	Right Cheek	0	132572	1770	50	Low	-0.03	0.042	21.75	22.80	1.274	0.053	/
Ant.0	Level1&2&3	QPSK	Right Tilt	0	132572	1770	1	Mid	-0.06	0.038	22.88	23.80	1.236	0.047	/
Ant.0	Level1&2&3	QPSK	Right Tilt	0	132572	1770	50	Low	-0.01	0.030	21.75	22.80	1.274	0.038	/
Body-worn															
Ant.1	Level4	QPSK	Front Side	15	132322	1745	1	Mid	0.03	0.179	21.29	22.10	1.205	0.216	/
Ant.1	Level4	QPSK	Front Side	15	132072	1720	50	High	0.08	0.174	21.23	22.10	1.222	0.213	/
Ant.1	Level4	QPSK	Back Side	15	132322	1745	1	Mid	0.02	0.227	21.29	22.10	1.205	0.274	/
Ant.1	Level4	QPSK	Back Side	15	132072	1720	50	High	0.11	0.223	21.23	22.10	1.222	0.272	/
Ant.1	Level5&6	QPSK	Front Side	15	132322	1745	1	Mid	-0.03	0.124	19.83	20.60	1.194	0.148	/
Ant.1	Level5&6	QPSK	Front Side	15	132072	1720	50	High	0.07	0.121	19.70	20.60	1.230	0.149	/
Ant.1	Level5&6	QPSK	Back Side	15	132322	1745	1	Mid	-0.03	0.162	19.83	20.60	1.194	0.193	/
Ant.1	Level5&6	QPSK	Back Side	15	132072	1720	50	High	-0.03	0.158	19.70	20.60	1.230	0.194	/
Ant.0	Level4	QPSK	Front Side	15	132572	1770	1	Mid	0.19	0.175	22.42	23.30	1.225	0.214	/
Ant.0	Level4	QPSK	Front Side	15	132322	1745	50	High	-0.16	0.153	21.85	22.80	1.245	0.190	/
Ant.0	Level4	QPSK	Back Side	15	132572	1770	1	Mid	-0.07	0.361	22.42	23.30	1.225	0.442	38#
Ant.0	Level4	QPSK	Back Side	15	132322	1745	50	High	0.09	0.315	21.85	22.80	1.245	0.392	/
Ant.0	Level5&6	QPSK	Front Side	15	132572	1770	1	Mid	0.12	0.135	20.95	21.80	1.216	0.164	/
Ant.0	Level5&6	QPSK	Front Side	15	132322	1745	50	High	0.04	0.131	20.82	21.80	1.253	0.164	/

Ant.0	Level5&6	QPSK	Back Side	15	132572	1770	1	Mid	0.08	0.255	20.95	21.80	1.216	0.310	/
Ant.0	Level5&6	QPSK	Back Side	15	132322	1745	50	High	-0.03	0.265	20.82	21.80	1.253	0.332	/
Hotspot															
Ant.1	Level5&6	QPSK	Front Side	10	132322	1745	1	Mid	0.09	0.266	19.83	20.60	1.194	0.318	/
Ant.1	Level5&6	QPSK	Front Side	10	132072	1720	50	High	0.13	0.262	19.70	20.60	1.230	0.322	/
Ant.1	Level5&6	QPSK	Back Side	10	132322	1745	1	Mid	0.09	0.341	19.83	20.60	1.194	0.407	/
Ant.1	Level5&6	QPSK	Back Side	10	132072	1720	50	High	0.05	0.343	19.70	20.60	1.230	0.422	/
Ant.1	Level5&6	QPSK	Right Edge	10	132322	1745	1	Mid	-0.19	0.074	19.83	20.60	1.194	0.088	/
Ant.1	Level5&6	QPSK	Right Edge	10	132072	1720	50	High	-0.06	0.069	19.70	20.60	1.230	0.085	/
Ant.1	Level5&6	QPSK	Top Edge	10	132322	1745	1	Mid	0.12	0.460	19.83	20.60	1.194	0.549	/
Ant.1	Level5&6	QPSK	Top Edge	10	132072	1720	50	High	-0.02	0.457	19.70	20.60	1.230	0.562	/
Ant.0	Level5&6	QPSK	Front Side	10	132572	1770	1	Mid	-0.18	0.174	20.95	21.80	1.216	0.212	/
Ant.0	Level5&6	QPSK	Front Side	10	132322	1745	50	High	-0.05	0.178	20.82	21.80	1.253	0.223	/
Ant.0	Level5&6	QPSK	Back Side	10	132572	1770	1	Mid	-0.03	0.362	20.95	21.80	1.216	0.440	/
Ant.0	Level5&6	QPSK	Back Side	10	132322	1745	50	High	-0.17	0.377	20.82	21.80	1.253	0.472	/
Ant.0	Level5&6	QPSK	Left Edge	10	132572	1770	1	Mid	0.11	0.066	20.95	21.80	1.216	0.080	/
Ant.0	Level5&6	QPSK	Left Edge	10	132322	1745	50	High	-0.19	0.068	20.82	21.80	1.253	0.085	/
Ant.0	Level5&6	QPSK	Right Edge	10	132572	1770	1	Mid	-0.08	0.033	20.95	21.80	1.216	0.040	/
Ant.0	Level5&6	QPSK	Right Edge	10	132322	1745	50	High	-0.01	0.038	20.82	21.80	1.253	0.048	/
Ant.0	Level5&6	QPSK	Bottom Edge	10	132572	1770	1	Mid	-0.07	0.537	20.95	21.80	1.216	0.653	/
Ant.0	Level5&6	QPSK	Bottom Edge	10	132322	1745	50	High	-0.17	0.541	20.82	21.80	1.253	0.678	39#
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.14 LTE Band 38 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.1	Level1	QPSK	Left Cheek	0	38150	2610	1	Mid	-0.13	0.272	18.43	18.70	1.064	0.289	/
Ant.1	Level1	QPSK	Left Cheek	0	37850	2580	50	High	-0.16	0.267	18.19	18.70	1.125	0.300	/
Ant.1	Level1	QPSK	Left Tilt	0	38150	2610	1	Mid	0.08	0.351	18.43	18.70	1.064	0.374	/
Ant.1	Level1	QPSK	Left Tilt	0	37850	2580	50	High	0.03	0.349	18.19	18.70	1.125	0.392	/
Ant.1	Level1	QPSK	Right Cheek	0	38150	2610	1	Mid	-0.07	0.819	18.43	18.70	1.064	0.872	/
Ant.1	Level1	QPSK	Right Cheek	0	37850	2580	50	High	0.11	0.810	18.19	18.70	1.125	0.911	/
Ant.1	Level1	QPSK	Right Tilt	0	38150	2610	1	Mid	0.12	1.030	18.43	18.70	1.064	1.096	40#
Ant.1	Level1	QPSK	Right Tilt	0	37850	2580	50	High	-0.04	0.953	18.19	18.70	1.125	1.072	/
Ant.1	Level1	QPSK	Right Cheek	0	37850	2580	1	Mid	0.12	0.760	18.33	18.70	1.089	0.828	/
Ant.1	Level1	QPSK	Right Cheek	0	38000	2595	1	Mid	0.02	0.753	18.33	18.70	1.089	0.820	/
Ant.1	Level1	QPSK	Right Cheek	0	38000	2595	50	High	0.18	0.745	18.14	18.70	1.138	0.848	/
Ant.1	Level1	QPSK	Right Cheek	0	38150	2610	50	Mid	0.04	0.750	18.13	18.70	1.140	0.855	/
Ant.1	Level1	QPSK	Right Cheek	0	38000	2595	100	Low	-0.12	0.731	18.14	18.70	1.138	0.832	/

Ant.1	Level1	QPSK	Right Tilt	0	37850	2580	1	Mid	-0.05	0.972	18.33	18.70	1.089	1.058	/
Ant.1	Level1	QPSK	Right Tilt	0	38000	2595	1	Mid	0.05	0.958	18.33	18.70	1.089	1.043	/
Ant.1	Level1	QPSK	Right Tilt	0	38000	2595	50	High	0.03	0.950	18.14	18.70	1.138	1.081	/
Ant.1	Level1	QPSK	Right Tilt	0	38150	2610	50	Mid	0.10	0.956	18.13	18.70	1.140	1.090	/
Ant.1	Level1	QPSK	Right Tilt	0	38000	2595	100	Low	-0.13	0.938	18.14	18.70	1.138	1.067	/
Ant.1	Level2&3	QPSK	Left Cheek	0	38150	2610	1	Mid	0.13	0.216	17.49	17.70	1.050	0.227	/
Ant.1	Level2&3	QPSK	Left Cheek	0	37850	2580	50	High	-0.12	0.213	17.32	17.70	1.091	0.232	/
Ant.1	Level2&3	QPSK	Left Tilt	0	38150	2610	1	Mid	-0.13	0.279	17.49	17.70	1.050	0.293	/
Ant.1	Level2&3	QPSK	Left Tilt	0	37850	2580	50	High	0.05	0.262	17.32	17.70	1.091	0.286	/
Ant.1	Level2&3	QPSK	Right Cheek	0	38150	2610	1	Mid	-0.02	0.651	17.49	17.70	1.050	0.683	/
Ant.1	Level2&3	QPSK	Right Cheek	0	37850	2580	50	High	0.06	0.643	17.32	17.70	1.091	0.702	/
Ant.1	Level2&3	QPSK	Right Tilt	0	38150	2610	1	Mid	-0.02	0.761	17.49	17.70	1.050	0.799	/
Ant.1	Level2&3	QPSK	Right Tilt	0	37850	2580	50	High	-0.13	0.729	17.32	17.70	1.091	0.796	/
Ant.0	Level1&2&3	QPSK	Left Cheek	0	38150	2610	1	Mid	0.16	0.090	23.55	24.00	1.109	0.100	/
Ant.0	Level1&2&3	QPSK	Left Cheek	0	37850	2580	50	High	-0.04	0.081	22.37	23.00	1.156	0.094	/
Ant.0	Level1&2&3	QPSK	Left Tilt	0	38150	2610	1	Mid	-0.04	0.088	23.55	24.00	1.109	0.098	/
Ant.0	Level1&2&3	QPSK	Left Tilt	0	37850	2580	50	High	0.14	0.079	22.37	23.00	1.156	0.091	/
Ant.0	Level1&2&3	QPSK	Right Cheek	0	38150	2610	1	Mid	0.18	0.211	23.55	24.00	1.109	0.234	/
Ant.0	Level1&2&3	QPSK	Right Cheek	0	37850	2580	50	High	-0.15	0.170	22.37	23.00	1.156	0.197	/
Ant.0	Level1&2&3	QPSK	Right Tilt	0	38150	2610	1	Mid	-0.09	0.131	23.55	24.00	1.109	0.145	/
Ant.0	Level1&2&3	QPSK	Right Tilt	0	37850	2580	50	High	-0.10	0.100	22.37	23.00	1.156	0.116	/
Body-worn															
Ant.1	Level4	QPSK	Front Side	15	38150	2610	1	Mid	-0.13	0.133	22.53	22.70	1.040	0.139	/
Ant.1	Level4	QPSK	Front Side	15	38000	2595	50	High	0.14	0.137	22.26	22.70	1.107	0.152	/
Ant.1	Level4	QPSK	Back Side	15	38150	2610	1	Mid	-0.14	0.208	22.53	22.70	1.040	0.216	/
Ant.1	Level4	QPSK	Back Side	15	38000	2595	50	High	0.07	0.210	22.26	22.70	1.107	0.232	/
Ant.1	Level5&6	QPSK	Front Side	15	38150	2610	1	Mid	-0.07	0.082	20.60	20.70	1.023	0.084	/
Ant.1	Level5&6	QPSK	Front Side	15	38150	2610	50	Mid	0.11	0.079	20.36	20.70	1.081	0.086	/
Ant.1	Level5&6	QPSK	Back Side	15	38150	2610	1	Mid	-0.15	0.130	20.60	20.70	1.023	0.133	/
Ant.1	Level5&6	QPSK	Back Side	15	38150	2610	50	Mid	0.13	0.126	20.36	20.70	1.081	0.136	/
Ant.0	Level4&5&6	QPSK	Front Side	15	38150	2610	1	Mid	0.01	0.176	23.55	24.00	1.109	0.195	/
Ant.0	Level4&5&6	QPSK	Front Side	15	37850	2580	50	High	0.18	0.159	22.37	23.00	1.156	0.184	/
Ant.0	Level4&5&6	QPSK	Back Side	15	38150	2610	1	Mid	0.02	0.239	23.55	24.00	1.109	0.265	41#
Ant.0	Level4&5&6	QPSK	Back Side	15	37850	2580	50	High	-0.07	0.194	22.37	23.00	1.156	0.224	/
Hotspot															
Ant.1	Level5&6	QPSK	Front Side	10	38150	2610	1	Mid	0.00	0.148	20.60	20.70	1.023	0.151	/
Ant.1	Level5&6	QPSK	Front Side	10	38150	2610	50	Mid	0.15	0.175	20.36	20.70	1.081	0.189	/
Ant.1	Level5&6	QPSK	Back Side	10	38150	2610	1	Mid	0.09	0.274	20.60	20.70	1.023	0.280	/
Ant.1	Level5&6	QPSK	Back Side	10	38150	2610	50	Mid	-0.02	0.287	20.36	20.70	1.081	0.310	/
Ant.1	Level5&6	QPSK	Right Edge	10	38150	2610	1	Mid	0.03	0.126	20.60	20.70	1.023	0.129	/
Ant.1	Level5&6	QPSK	Right Edge	10	38150	2610	50	Mid	-0.05	0.133	20.36	20.70	1.081	0.144	/
Ant.1	Level5&6	QPSK	Top Edge	10	38150	2610	1	Mid	-0.05	0.470	20.60	20.70	1.023	0.481	/
Ant.1	Level5&6	QPSK	Top Edge	10	38150	2610	50	Mid	0.11	0.469	20.36	20.70	1.081	0.507	42#

Ant.0	Level5&6	QPSK	Front Side	10	38150	2610	1	Mid	0.08	0.286	23.55	24.00	1.109	0.317	/
Ant.0	Level5&6	QPSK	Front Side	10	37850	2580	50	High	0.14	0.236	22.37	23.00	1.156	0.273	/
Ant.0	Level5&6	QPSK	Back Side	10	38150	2610	1	Mid	0.09	0.433	23.55	24.00	1.109	0.480	/
Ant.0	Level5&6	QPSK	Back Side	10	37850	2580	50	High	0.01	0.350	22.37	23.00	1.156	0.405	/
Ant.0	Level5&6	QPSK	Left Edge	10	38150	2610	1	Mid	-0.02	0.194	23.55	24.00	1.109	0.215	/
Ant.0	Level5&6	QPSK	Left Edge	10	37850	2580	50	High	-0.04	0.151	22.37	23.00	1.156	0.175	/
Ant.0	Level5&6	QPSK	Right Edge	10	38150	2610	1	Mid	-0.02	0.000	23.55	24.00	1.109	0.000	/
Ant.0	Level5&6	QPSK	Right Edge	10	37850	2580	50	High	0.11	0.000	22.37	23.00	1.156	0.000	/
Ant.0	Level5&6	QPSK	Bottom Edge	10	38150	2610	1	Mid	-0.03	0.180	23.55	24.00	1.109	0.200	/
Ant.0	Level5&6	QPSK	Bottom Edge	10	37850	2580	50	High	0.00	0.144	22.37	23.00	1.156	0.166	/

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

10.15 LTE Band 41 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.1	Level1	QPSK	Left Cheek	0	41140	2645	1	Mid	0.01	0.271	18.07	18.70	1.156	0.313	/
Ant.1	Level1	QPSK	Left Cheek	0	41140	2645	50	High	0.12	0.258	17.79	18.70	1.233	0.318	/
Ant.1	Level1	QPSK	Left Tilt	0	41140	2645	1	Mid	0.01	0.342	18.07	18.70	1.156	0.395	/
Ant.1	Level1	QPSK	Left Tilt	0	41140	2645	50	High	-0.19	0.321	17.79	18.70	1.233	0.396	/
Ant.1	Level1	QPSK	Right Cheek	0	41140	2645	1	Mid	0.11	0.807	18.07	18.70	1.156	0.933	/
Ant.1	Level1	QPSK	Right Cheek	0	41140	2645	50	High	0.04	0.765	17.79	18.70	1.233	0.943	/
Ant.1	Level1	QPSK	Right Tilt	0	41140	2645	1	Mid	-0.11	0.949	18.07	18.70	1.156	1.097	/
Ant.1	Level1	QPSK	Right Tilt	0	41140	2645	50	High	-0.07	0.907	17.79	18.70	1.233	1.118	/
Ant.1	Level1	QPSK	Right Cheek	0	40140	2545	1	Mid	0.11	0.811	17.85	18.70	1.216	0.986	/
Ant.1	Level1	QPSK	Right Cheek	0	40640	2595	1	Mid	0.15	0.752	17.93	18.70	1.194	0.898	/
Ant.1	Level1	QPSK	Right Cheek	0	40140	2545	50	High	0.05	0.774	17.76	18.70	1.242	0.961	/
Ant.1	Level1	QPSK	Right Cheek	0	40640	2595	50	Low	0.17	0.761	17.78	18.70	1.236	0.941	/
Ant.1	Level1	QPSK	Right Cheek	0	41140	2645	100	Low	-0.09	0.752	17.76	18.70	1.242	0.934	/
Ant.1	Level1	QPSK	Right Tilt	0	40140	2545	1	Mid	-0.17	0.970	17.85	18.70	1.216	1.180	43#
Ant.1	Level1	QPSK	Right Tilt	0	40640	2595	1	Mid	-0.19	0.896	17.93	18.70	1.194	1.070	/
Ant.1	Level1	QPSK	Right Tilt	0	40140	2545	50	High	0.00	0.924	17.76	18.70	1.242	1.147	/
Ant.1	Level1	QPSK	Right Tilt	0	40640	2595	50	Low	-0.11	0.911	17.78	18.70	1.236	1.126	/
Ant.1	Level1	QPSK	Right Tilt	0	41140	2645	100	Low	0.09	0.905	17.76	18.70	1.242	1.124	/
Ant.1	Level2&3	QPSK	Left Cheek	0	41140	2645	1	Mid	0.16	0.193	16.50	17.20	1.175	0.227	/
Ant.1	Level2&3	QPSK	Left Cheek	0	40640	2595	50	Low	0.15	0.180	16.25	17.20	1.245	0.224	/
Ant.1	Level2&3	QPSK	Left Tilt	0	41140	2645	1	Mid	-0.07	0.241	16.50	17.20	1.175	0.283	/
Ant.1	Level2&3	QPSK	Left Tilt	0	40640	2595	50	Low	-0.07	0.225	16.25	17.20	1.245	0.280	/
Ant.1	Level2&3	QPSK	Right Cheek	0	41140	2645	1	Mid	0.11	0.562	16.50	17.20	1.175	0.660	/
Ant.1	Level2&3	QPSK	Right Cheek	0	40640	2595	50	Low	0.19	0.534	16.25	17.20	1.245	0.665	/

Ant.1	Level2&3	QPSK	Right Tilt	0	41140	2645	1	Mid	0.12	0.664	16.50	17.20	1.175	0.780	/
Ant.1	Level2&3	QPSK	Right Tilt	0	40640	2595	50	Low	0.09	0.639	16.25	17.20	1.245	0.795	/
Ant.0	Level1&2&3	QPSK	Left Cheek	0	41140	2645	1	Mid	-0.03	0.109	23.26	24.00	1.186	0.129	/
Ant.0	Level1&2&3	QPSK	Left Cheek	0	41140	2645	1	Mid	0.04	0.090	21.93	23.00	1.279	0.115	/
Ant.0	Level1&2&3	QPSK	Left Tilt	0	41140	2645	1	Mid	-0.09	0.085	23.26	24.00	1.186	0.101	/
Ant.0	Level1&2&3	QPSK	Left Tilt	0	41140	2645	1	Mid	-0.07	0.069	21.93	23.00	1.279	0.088	/
Ant.0	Level1&2&3	QPSK	Right Cheek	0	41140	2645	1	Mid	0.11	0.206	23.26	24.00	1.186	0.244	/
Ant.0	Level1&2&3	QPSK	Right Cheek	0	41140	2645	1	Mid	-0.10	0.174	21.93	23.00	1.279	0.223	/
Ant.0	Level1&2&3	QPSK	Right Tilt	0	41140	2645	1	Mid	0.10	0.120	23.26	24.00	1.186	0.142	/
Ant.0	Level1&2&3	QPSK	Right Tilt	0	41140	2645	1	Mid	0.06	0.098	21.93	23.00	1.279	0.125	/
Body-worn															
Ant.1	Level4	QPSK	Front Side	15	41140	2645	1	Mid	-0.19	0.123	21.99	22.70	1.178	0.145	/
Ant.1	Level4	QPSK	Front Side	15	41140	2645	50	Low	0.07	0.118	21.70	22.70	1.259	0.149	/
Ant.1	Level4	QPSK	Back Side	15	41140	2645	1	Mid	0.09	0.189	21.99	22.70	1.178	0.223	/
Ant.1	Level4	QPSK	Back Side	15	41140	2645	50	Low	-0.14	0.186	21.70	22.70	1.259	0.234	/
Ant.1	Level5&6	QPSK	Front Side	15	41140	2645	1	Mid	0.15	0.094	20.94	21.70	1.191	0.112	/
Ant.1	Level5&6	QPSK	Front Side	15	41140	2645	50	High	0.15	0.094	20.66	21.70	1.271	0.119	/
Ant.1	Level5&6	QPSK	Back Side	15	41140	2645	1	Mid	-0.10	0.147	20.94	21.70	1.191	0.175	/
Ant.1	Level5&6	QPSK	Back Side	15	41140	2645	50	High	-0.01	0.148	20.66	21.70	1.271	0.188	/
Ant.0	Level4&5&6	QPSK	Front Side	15	41140	2645	1	Mid	0.06	0.156	23.26	24.00	1.186	0.185	/
Ant.0	Level4&5&6	QPSK	Front Side	15	41140	2645	1	Mid	0.09	0.131	21.93	23.00	1.279	0.168	/
Ant.0	Level4&5&6	QPSK	Back Side	15	41140	2645	1	Mid	-0.07	0.228	23.26	24.00	1.186	0.270	44#
Ant.0	Level4&5&6	QPSK	Back Side	15	41140	2645	1	Mid	0.11	0.182	21.93	23.00	1.279	0.233	/
Hotspot															
Ant.1	Level5&6	QPSK	Front Side	10	41140	2645	1	Mid	-0.06	0.218	20.94	21.70	1.191	0.260	/
Ant.1	Level5&6	QPSK	Front Side	10	41140	2645	50	High	-0.19	0.222	20.66	21.70	1.271	0.282	/
Ant.1	Level5&6	QPSK	Back Side	10	41140	2645	1	Mid	0.00	0.353	20.94	21.70	1.191	0.421	/
Ant.1	Level5&6	QPSK	Back Side	10	41140	2645	50	High	0.13	0.382	20.66	21.70	1.271	0.485	/
Ant.1	Level5&6	QPSK	Right Edge	10	41140	2645	1	Mid	0.04	0.200	20.94	21.70	1.191	0.238	/
Ant.1	Level5&6	QPSK	Right Edge	10	41140	2645	50	High	-0.08	0.196	20.66	21.70	1.271	0.249	/
Ant.1	Level5&6	QPSK	Top Edge	10	41140	2645	1	Mid	-0.11	0.572	20.94	21.70	1.191	0.681	/
Ant.1	Level5&6	QPSK	Top Edge	10	41140	2645	50	High	0.05	0.568	20.66	21.70	1.271	0.722	45#
Ant.0	Level5&6	QPSK	Front Side	10	41140	2645	1	Mid	-0.01	0.240	23.26	24.00	1.186	0.285	/
Ant.0	Level5&6	QPSK	Front Side	10	41140	2645	1	Mid	-0.16	0.248	21.93	23.00	1.279	0.317	/
Ant.0	Level5&6	QPSK	Back Side	10	41140	2645	1	Mid	0.07	0.373	23.26	24.00	1.186	0.442	/
Ant.0	Level5&6	QPSK	Back Side	10	41140	2645	1	Mid	-0.09	0.378	21.93	23.00	1.279	0.484	/
Ant.0	Level5&6	QPSK	Left Edge	10	41140	2645	1	Mid	-0.10	0.158	23.26	24.00	1.186	0.187	/
Ant.0	Level5&6	QPSK	Left Edge	10	41140	2645	1	Mid	0.12	0.153	21.93	23.00	1.279	0.196	/
Ant.0	Level5&6	QPSK	Right Edge	10	41140	2645	1	Mid	-0.17	0.000	23.26	24.00	1.186	0.000	/
Ant.0	Level5&6	QPSK	Right Edge	10	41140	2645	1	Mid	0.04	0.000	21.93	23.00	1.279	0.000	/
Ant.0	Level5&6	QPSK	Bottom Edge	10	41140	2645	1	Mid	-0.10	0.173	23.26	24.00	1.186	0.205	/
Ant.0	Level5&6	QPSK	Bottom Edge	10	41140	2645	1	Mid	-0.16	0.174	21.93	23.00	1.279	0.223	/

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

10.16 WIFI 2.4GHZ

Mode	Power Reduction	Fre. Band	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle Setting	Duty cycle Factor	1g Scaled SAR (W/kg)	Meas. No.
Head																
Ant.2	Level1	2.4G	802.11 b	Left Cheek	0	6	2437	-0.08	0.976	16.69	17.50	1.205	99.32	1.007	1.184	46#
Ant.2	Level1	2.4G	802.11 b	Left Tilt	0	6	2437	0.04	0.745	16.69	17.50	1.205	99.32	1.007	0.904	/
Ant.2	Level1	2.4G	802.11 b	Right Cheek	0	6	2437	-0.13	0.384	16.69	17.50	1.205	99.32	1.007	0.466	/
Ant.2	Level1	2.4G	802.11 b	Right Tilt	0	6	2437	0.19	0.448	16.69	17.50	1.205	99.32	1.007	0.544	/
Ant.2	Level1	2.4G	802.11 b	Left Cheek	0	1	2412	0.12	0.853	16.47	17.50	1.268	99.32	1.007	1.089	/
Ant.2	Level1	2.4G	802.11 b	Left Cheek	0	11	2462	-0.02	0.937	16.57	17.50	1.239	99.32	1.007	1.169	/
Ant.2	Level1	2.4G	802.11 b	Left Tilt	0	1	2412	0.13	0.643	16.47	17.50	1.268	99.32	1.007	0.821	/
Ant.2	Level1	2.4G	802.11 b	Left Tilt	0	11	2462	-0.12	0.710	16.57	17.50	1.239	99.32	1.007	0.886	/
Ant.2	Level2	2.4G	802.11 b	Left Cheek	0	6	2437	0.09	0.425	12.50	13.50	1.259	99.32	1.007	0.539	/
Ant.2	Level2	2.4G	802.11 b	Left Tilt	0	6	2437	-0.03	0.328	12.50	13.50	1.259	99.32	1.007	0.416	/
Ant.2	Level2	2.4G	802.11 b	Right Cheek	0	6	2437	0.06	0.170	12.50	13.50	1.259	99.32	1.007	0.215	/
Ant.2	Level2	2.4G	802.11 b	Right Tilt	0	6	2437	0.06	0.193	12.50	13.50	1.259	99.32	1.007	0.245	/
Body-worn																
Ant.2	Level4	2.4G	802.11 b	Front Side	15	6	2437	0.15	0.141	18.81	20.00	1.315	99.32	1.007	0.187	/
Ant.2	Level4	2.4G	802.11 b	Back Side	15	6	2437	-0.05	0.176	18.81	20.00	1.315	99.32	1.007	0.233	47#
Ant.2	Level5	2.4G	802.11 b	Front Side	15	6	2437	-0.04	0.114	17.83	19.00	1.309	99.32	1.007	0.150	/
Ant.2	Level5	2.4G	802.11 b	Back Side	15	6	2437	0.04	0.141	17.83	19.00	1.309	99.32	1.007	0.186	/
Hotspot																
Ant.2	Level5	2.4G	802.11 b	Front Side	10	6	2437	-0.03	0.212	17.83	19.00	1.309	99.32	1.007	0.279	/
Ant.2	Level5	2.4G	802.11 b	Back Side	10	6	2437	0.15	0.310	17.83	19.00	1.309	99.32	1.007	0.409	48#
Ant.2	Level5	2.4G	802.11 b	Left Edge	10	6	2437	-0.17	0.227	17.83	19.00	1.309	99.32	1.007	0.299	/
Ant.2	Level5	2.4G	802.11 b	Top Edge	10	6	2437	0.04	0.183	17.83	19.00	1.309	99.32	1.007	0.241	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																

10.17 WIFI 5GHz

Mode	Power Reduction	Fre. Band	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle Setting	Duty cycle Factor	1g Scaled SAR (W/kg)	Meas. No.
Head																
Ant.2	Level1	5.3G	802.11 ac80	Left Cheek	0	58	5290	0.09	0.562	12.44	13.50	1.276	87.90	1.138	0.816	49#
Ant.2	Level1	5.3G	802.11 ac80	Left Tilt	0	58	5290	0.13	0.538	12.44	13.50	1.276	87.90	1.138	0.781	/
Ant.2	Level1	5.3G	802.11 ac80	Right Cheek	0	58	5290	-0.14	0.151	12.44	13.50	1.276	87.90	1.138	0.219	/
Ant.2	Level1	5.3G	802.11 ac80	Right Tilt	0	58	5290	0.16	0.176	12.44	13.50	1.276	87.90	1.138	0.256	/
Ant.2	Level3	5.3G	802.11 ac80	Left Cheek	0	58	5290	0.09	0.464	11.66	12.50	1.213	87.90	1.138	0.641	/
Ant.2	Level3	5.3G	802.11 ac80	Left Tilt	0	58	5290	-0.04	0.429	11.66	12.50	1.213	87.90	1.138	0.592	/

Ant.2	Level3	5.3G	802.11 ac80	Right Cheek	0	58	5290	-0.11	0.118	11.66	12.50	1.213	87.90	1.138	0.163	/
Ant.2	Level3	5.3G	802.11 ac80	Right Tilt	0	58	5290	0.08	0.139	11.66	12.50	1.213	87.90	1.138	0.192	/
Ant.2	Level1	5.6G	802.11 ac80	Left Cheek	0	106	5530	0.15	0.598	12.68	13.50	1.208	87.90	1.138	0.822	50#
Ant.2	Level1	5.6G	802.11 ac80	Left Tilt	0	106	5530	-0.09	0.568	12.68	13.50	1.208	87.90	1.138	0.780	/
Ant.2	Level1	5.6G	802.11 ac80	Right Cheek	0	106	5530	0.05	0.256	12.68	13.50	1.208	87.90	1.138	0.352	/
Ant.2	Level1	5.6G	802.11 ac80	Right Tilt	0	106	5530	-0.11	0.296	12.68	13.50	1.208	87.90	1.138	0.407	/
Ant.2	Level1	5.6G	802.11 ac80	Left Cheek	0	122	5610	0.05	0.559	12.61	13.50	1.227	87.90	1.138	0.781	/
Ant.2	Level3	5.6G	802.11 ac80	Left Cheek	0	106	5530	-0.11	0.492	11.73	12.50	1.194	87.90	1.138	0.668	/
Ant.2	Level3	5.6G	802.11 ac80	Left Tilt	0	106	5530	0.13	0.454	11.73	12.50	1.194	87.90	1.138	0.617	/
Ant.2	Level3	5.6G	802.11 ac80	Right Cheek	0	106	5530	0.18	0.200	11.73	12.50	1.194	87.90	1.138	0.272	/
Ant.2	Level3	5.6G	802.11 ac80	Right Tilt	0	106	5530	-0.15	0.230	11.73	12.50	1.194	87.90	1.138	0.312	/
Ant.2	Level1	5.8G	802.11 ac80	Left Cheek	0	155	5775	-0.18	0.558	12.95	14.00	1.274	87.90	1.138	0.808	51#
Ant.2	Level1	5.8G	802.11 ac80	Left Tilt	0	155	5775	0.10	0.524	12.95	14.00	1.274	87.90	1.138	0.759	/
Ant.2	Level1	5.8G	802.11 ac80	Right Cheek	0	155	5775	-0.14	0.340	12.95	14.00	1.274	87.90	1.138	0.493	/
Ant.2	Level1	5.8G	802.11 ac80	Right Tilt	0	155	5775	0.19	0.367	12.95	14.00	1.274	87.90	1.138	0.532	/
Ant.2	Level3	5.8G	802.11 ac80	Left Cheek	0	155	5775	0.07	0.390	11.31	12.50	1.315	87.90	1.138	0.584	/
Ant.2	Level3	5.8G	802.11 ac80	Left Tilt	0	155	5775	-0.06	0.364	11.31	12.50	1.315	87.90	1.138	0.545	/
Ant.2	Level3	5.8G	802.11 ac80	Right Cheek	0	155	5775	0.04	0.240	11.31	12.50	1.315	87.90	1.138	0.359	/
Ant.2	Level3	5.8G	802.11 ac80	Right Tilt	0	155	5775	-0.05	0.257	11.31	12.50	1.315	87.90	1.138	0.385	/
Body-worn																
Ant.2	Level4	5.3G	802.11 ac80	Front Side	15	58	5290	0.02	0.135	15.39	17.00	1.449	87.90	1.138	0.223	/
Ant.2	Level4	5.3G	802.11 ac80	Back Side	15	58	5290	0.17	0.381	15.39	17.00	1.449	87.90	1.138	0.628	52#
Ant.2	Level6	5.3G	802.11 ac80	Front Side	15	58	5290	-0.05	0.058	12.44	13.50	1.276	87.90	1.138	0.084	/
Ant.2	Level6	5.3G	802.11 ac80	Back Side	15	58	5290	0.13	0.165	12.44	13.50	1.276	87.90	1.138	0.240	/
Ant.2	Level4	5.6G	802.11 ac80	Front Side	15	106	5530	-0.16	0.179	15.70	17.00	1.349	87.90	1.138	0.275	/
Ant.2	Level4	5.6G	802.11 ac80	Back Side	15	106	5530	0.07	0.497	15.70	17.00	1.349	87.90	1.138	0.763	53#
Ant.2	Level6	5.6G	802.11 ac80	Front Side	15	106	5530	-0.07	0.075	12.68	13.50	1.208	87.90	1.138	0.103	/
Ant.2	Level6	5.6G	802.11 ac80	Back Side	15	106	5530	0.07	0.216	12.68	13.50	1.208	87.90	1.138	0.297	/
Ant.2	Level4	5.8G	802.11 ac80	Front Side	15	155	5775	-0.18	0.174	15.28	17.00	1.486	87.90	1.138	0.294	/
Ant.2	Level4	5.8G	802.11 ac80	Back Side	15	155	5775	0.11	0.426	15.28	17.00	1.486	87.90	1.138	0.720	54#
Ant.2	Level6	5.8G	802.11 ac80	Front Side	15	155	5775	-0.05	0.078	12.41	13.50	1.285	87.90	1.138	0.114	/
Ant.2	Level6	5.8G	802.11 ac80	Back Side	15	155	5775	-0.02	0.190	12.41	13.50	1.285	87.90	1.138	0.278	/
Hotspot																
Ant.2	Level6	5.2G	802.11 ac80	Front Side	10	42	5210	-0.14	0.073	12.40	13.50	1.288	87.90	1.138	0.107	/
Ant.2	Level6	5.2G	802.11 ac80	Back Side	10	42	5210	-0.19	0.164	12.40	13.50	1.288	87.90	1.138	0.240	/
Ant.2	Level6	5.2G	802.11 ac80	Left Edge	10	42	5210	-0.10	0.219	12.40	13.50	1.288	87.90	1.138	0.321	55#
Ant.2	Level6	5.2G	802.11 ac80	Top Edge	10	42	5210	-0.05	0.139	12.40	13.50	1.288	87.90	1.138	0.204	/
Ant.2	Level6	5.8G	802.11 ac80	Front Side	10	155	5775	0.16	0.137	12.41	13.50	1.285	87.90	1.138	0.200	/
Ant.2	Level6	5.8G	802.11 ac80	Back Side	10	155	5775	-0.12	0.304	12.41	13.50	1.285	87.90	1.138	0.445	56#
Ant.2	Level6	5.8G	802.11 ac80	Left Edge	10	155	5775	0.12	0.151	12.41	13.50	1.285	87.90	1.138	0.221	/
Ant.2	Level6	5.8G	802.11 ac80	Top Edge	10	155	5775	0.05	0.302	12.41	13.50	1.285	87.90	1.138	0.442	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																

Mode	Power Reduction	Fre. Band	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle Setting	Duty cycle Factor	10 g Scaled SAR (W/kg)	Meas. No.
Specific																
Ant.2	Level4	5.3G	802.11 ac80	Front Side	0	58	5290	0.19	0.878	15.39	17.00	1.449	87.90	1.138	1.447	/
Ant.2	Level4	5.3G	802.11 ac80	Back Side	0	58	5290	-0.13	0.836	15.39	17.00	1.449	87.90	1.138	1.378	/
Ant.2	Level4	5.3G	802.11 ac80	Left Edge	0	58	5290	-0.10	1.620	15.39	17.00	1.449	87.90	1.138	2.670	57#
Ant.2	Level4	5.3G	802.11 ac80	Top Edge	0	58	5290	0.17	1.210	15.39	17.00	1.449	87.90	1.138	1.994	/
Ant.2	Level6	5.3G	802.11 ac80	Front Side	0	58	5290	-0.16	0.460	12.44	13.50	1.276	87.90	1.138	0.668	/
Ant.2	Level6	5.3G	802.11 ac80	Back Side	0	58	5290	0.03	0.440	12.44	13.50	1.276	87.90	1.138	0.639	/
Ant.2	Level6	5.3G	802.11 ac80	Left Edge	0	58	5290	-0.17	0.842	12.44	13.50	1.276	87.90	1.138	1.223	/
Ant.2	Level6	5.3G	802.11 ac80	Top Edge	0	58	5290	0.05	0.638	12.44	13.50	1.276	87.90	1.138	0.926	/
Ant.2	Level4	5.6G	802.11 ac80	Front Side	0	106	5530	0.09	0.828	15.70	17.00	1.349	87.90	1.138	1.271	/
Ant.2	Level4	5.6G	802.11 ac80	Back Side	0	106	5530	-0.04	0.966	15.70	17.00	1.349	87.90	1.138	1.482	/
Ant.2	Level4	5.6G	802.11 ac80	Left Edge	0	106	5530	0.06	1.750	15.70	17.00	1.349	87.90	1.138	2.686	58#
Ant.2	Level4	5.6G	802.11 ac80	Top Edge	0	106	5530	-0.12	0.948	15.70	17.00	1.349	87.90	1.138	1.455	/
Ant.2	Level4	5.6G	802.11 ac80	Left Edge	0	122	5610	0.07	1.580	15.67	17.00	1.358	87.90	1.138	2.442	/
Ant.2	Level6	5.6G	802.11 ac80	Front Side	0	106	5530	0.09	0.404	12.68	13.50	1.208	87.90	1.138	0.555	/
Ant.2	Level6	5.6G	802.11 ac80	Back Side	0	106	5530	-0.12	0.476	12.68	13.50	1.208	87.90	1.138	0.654	/
Ant.2	Level6	5.6G	802.11 ac80	Left Edge	0	106	5530	0.07	0.858	12.68	13.50	1.208	87.90	1.138	1.179	/
Ant.2	Level6	5.6G	802.11 ac80	Top Edge	0	106	5530	-0.17	0.468	12.68	13.50	1.208	87.90	1.138	0.643	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																

10.18 Bluetooth

Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune- up power (dBm)	Scaling Factor	Duty cycle Setting	Duty cycle Factor	1g Scaled SAR (W/kg)	Meas. No.
Head													
DH5	Left Cheek	0	39	2441	0.00	0.185	11.55	13.50	1.567	77.000	1.299	0.376	59#
DH5	Left Tilt	0	39	2441	-0.11	0.115	11.55	13.50	1.567	77.000	1.299	0.234	/
DH5	Right Cheek	0	39	2441	0.12	0.063	11.55	13.50	1.567	77.000	1.299	0.128	/
DH5	Right Tilt	0	39	2441	-0.17	0.055	11.55	13.50	1.567	77.000	1.299	0.112	/
Body													
DH5	Front Side	15	39	2441	-0.05	0.014	11.55	13.50	1.567	77.000	1.299	0.028	/
DH5	Back Side	15	39	2441	0.18	0.016	11.55	13.50	1.567	77.000	1.299	0.033	60#
Hotspot													
DH5	Front Side	10	39	2441	0.04	0.021	11.55	13.50	1.567	77.000	1.299	0.043	/
DH5	Back Side	10	39	2441	0.17	0.033	11.55	13.50	1.567	77.000	1.299	0.068	61#
DH5	Left Edge	10	39	2441	-0.12	0.025	11.55	13.50	1.567	77.000	1.299	0.051	/
DH5	Top Edge	10	39	2441	-0.13	0.018	11.55	13.50	1.567	77.000	1.299	0.037	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

10.19 Worst Case of WCDMA Band 2

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Hotspot-Worst Case													
Ant.0	Level5&6	RMC	Bottom Edge	10	9538	1907.6	-0.03	0.636	20.98	21.50	1.127	0.717	62#
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

10.20 Worst Case of WCDMA Band 4

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head-Worst Case													
Ant.1	Level1	RMC	Right Tilt	0	1412	1732.4	-0.10	1.010	18.14	18.70	1.138	1.149	63#
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

10.21 Worst Case of WIFI 5GHz

Fre. Band	Position	Fre. Band	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle Setting	Duty cycle Factor	1g Scaled SAR (W/kg)	Meas. No.
Body-worn-Worst Case																
Ant.2	Level4	5.6G	802.11 ac80	Back Side	15	106	5530	0.09	0.452	15.70	17.00	1.349	87.90	1.138	0.694	64#
Note: Refer to ANNEX C for the detailed test data for each test configuration.																

Fre. Band	Position	Fre. Band	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle Setting	Duty cycle Factor	10g Scaled SAR (W/kg)	Meas. No.
Specific-Worst Case																
Ant.2	Level4	5.6G	802.11 ac80	Left Edge	0	106	5530	-0.11	1.380	15.70	17.00	1.349	87.90	1.138	2.118	65#
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
1900	GSM 1900	Head	Right Tilt	1.120	Yes	1.050	1.067
1900	WCDMA band 2	Head	Right Tilt	0.876	Yes	0.853	1.027
1700	WCDMA band 4	Head	Right Tilt	1.040	Yes	0.976	1.066
1900	LTE band 2	Head	Right Tilt	0.812	Yes	0.785	1.034
1700	LTE band 4	Head	Right Tilt	0.956	Yes	0.922	1.037
1700	LTE band 66	Head	Right Tilt	0.926	Yes	0.921	1.005
2600	LTE band 38	Head	Right Tilt	1.030	Yes	0.984	1.047
2500	LTE band 41	Head	Right Tilt	0.970	Yes	0.942	1.030
2500	2.4G WiFi	Head	Right Tilt	0.976	Yes	0.948	1.030
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	WIFI5G + BT	Yes	Yes	Yes
2	WWAN + WIFI2.4G	Yes	Yes	Yes
3	WWAN + BT	Yes	Yes	Yes
4	WWAN + WIFI5G	Yes	Yes	Yes
5	WWAN + WIFI5G + BT	Yes	Yes	Yes

Note:

1. 2G&3G&4G share the same antenna and can't transmit simultaneously.
2. Two WWAN antennas can switch automatically, but up and down antenna 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)

12.2 Sum SAR of Simultaneous Transmission

12.2.1 Head Simultaneous Transmission SAR Evaluation for WWAN Mode and 2.4G WLAN or 5G WLAN and BT

Band	Antenna	Power Reduction	Position	Stand alone SAR				SUM SAR	
				1	2	3	4	1+2	1+3+4
				WWAN	2.4G WIFI Ant.2	5GWIFI Ant.2	Bluetooth Ant.2	WWAN+2.4G WIFI	WWAN+5G WIFI+BT
GSM850	Ant.1	Level2&3	Left Cheek	0.417	0.539	0.668	0.376	0.956	1.461
		Level2&3	Left Tilt	0.371	0.416	0.617	0.234	0.787	1.222
		Level2&3	Right Cheek	0.593	0.215	0.359	0.128	0.808	1.080
		Level2&3	Right Tilt	0.514	0.245	0.385	0.112	0.759	1.011
GSM850	Ant.0	Level2&3	Left Cheek	0.136	0.539	0.668	0.376	0.675	1.180
		Level2&3	Left Tilt	0.070	0.416	0.617	0.234	0.486	0.921
		Level2&3	Right Cheek	0.105	0.215	0.359	0.128	0.320	0.592
		Level2&3	Right Tilt	0.056	0.245	0.385	0.112	0.301	0.553
GSM 1900	Ant.1	Level2&3	Left Cheek	0.429	0.539	0.668	0.376	0.968	1.473
		Level2&3	Left Tilt	0.475	0.416	0.617	0.234	0.891	1.326
		Level2&3	Right Cheek	0.646	0.215	0.359	0.128	0.861	1.133
		Level2&3	Right Tilt	0.761	0.245	0.385	0.112	1.006	1.258
GSM 1900	Ant.0	Level2&3	Left Cheek	0.084	0.539	0.668	0.376	0.623	1.128
		Level2&3	Left Tilt	0.042	0.416	0.617	0.234	0.458	0.893
		Level2&3	Right Cheek	0.064	0.215	0.359	0.128	0.279	0.551
		Level2&3	Right Tilt	0.043	0.245	0.385	0.112	0.288	0.540
WCDMA B2	Ant.1	Level2&3	Left Cheek	0.360	0.539	0.668	0.376	0.899	1.404
		Level2&3	Left Tilt	0.422	0.416	0.617	0.234	0.838	1.273
		Level2&3	Right Cheek	0.546	0.215	0.359	0.128	0.761	1.033
		Level2&3	Right Tilt	0.693	0.245	0.385	0.112	0.938	1.190
WCDMA B2	Ant.0	Level2&3	Left Cheek	0.102	0.539	0.668	0.376	0.641	1.146
		Level2&3	Left Tilt	0.052	0.416	0.617	0.234	0.468	0.903
		Level2&3	Right Cheek	0.082	0.215	0.359	0.128	0.297	0.569
		Level2&3	Right Tilt	0.066	0.245	0.385	0.112	0.311	0.563
WCDMA B4	Ant.1	Level2&3	Left Cheek	0.408	0.539	0.668	0.376	0.947	1.452
		Level2&3	Left Tilt	0.479	0.416	0.617	0.234	0.895	1.330
		Level2&3	Right Cheek	0.596	0.215	0.359	0.128	0.811	1.083
		Level2&3	Right Tilt	0.737	0.245	0.385	0.112	0.982	1.234
WCDMA B4	Ant.0	Level2&3	Left Cheek	0.072	0.539	0.668	0.376	0.611	1.116
		Level2&3	Left Tilt	0.032	0.416	0.617	0.234	0.448	0.883
		Level2&3	Right Cheek	0.054	0.215	0.359	0.128	0.269	0.541
		Level2&3	Right Tilt	0.028	0.245	0.385	0.112	0.273	0.525
WCDMA B5	Ant.1	Level2&3	Left Cheek	0.294	0.539	0.668	0.376	0.833	1.338
		Level2&3	Left Tilt	0.273	0.416	0.617	0.234	0.689	1.124
		Level2&3	Right Cheek	0.521	0.215	0.359	0.128	0.736	1.008

		Level2&3	Right Tilt	0.451	0.245	0.385	0.112	0.696	0.948
WCDMA B5	Ant.0	Level2&3	Left Cheek	0.155	0.539	0.668	0.376	0.694	1.199
		Level2&3	Left Tilt	0.081	0.416	0.617	0.234	0.497	0.932
		Level2&3	Right Cheek	0.119	0.215	0.359	0.128	0.334	0.606
		Level2&3	Right Tilt	0.064	0.245	0.385	0.112	0.309	0.561
LTE B2	Ant.1	Level2&3	Left Cheek	0.367	0.539	0.668	0.376	0.906	1.411
		Level2&3	Left Tilt	0.414	0.416	0.617	0.234	0.830	1.265
		Level2&3	Right Cheek	0.558	0.215	0.359	0.128	0.773	1.045
		Level2&3	Right Tilt	0.654	0.245	0.385	0.112	0.899	1.151
LTE B2	Ant.0	Level2&3	Left Cheek	0.088	0.539	0.668	0.376	0.627	1.132
		Level2&3	Left Tilt	0.040	0.416	0.617	0.234	0.456	0.891
		Level2&3	Right Cheek	0.071	0.215	0.359	0.128	0.286	0.558
		Level2&3	Right Tilt	0.049	0.245	0.385	0.112	0.294	0.546
LTE B4	Ant.1	Level2&3	Left Cheek	0.440	0.539	0.668	0.376	0.979	1.484
		Level2&3	Left Tilt	0.490	0.416	0.617	0.234	0.906	1.341
		Level2&3	Right Cheek	0.632	0.215	0.359	0.128	0.847	1.119
		Level2&3	Right Tilt	0.740	0.245	0.385	0.112	0.985	1.237
LTE B4	Ant.0	Level2&3	Left Cheek	0.056	0.539	0.668	0.376	0.595	1.100
		Level2&3	Left Tilt	0.029	0.416	0.617	0.234	0.445	0.880
		Level2&3	Right Cheek	0.046	0.215	0.359	0.128	0.261	0.533
		Level2&3	Right Tilt	0.033	0.245	0.385	0.112	0.278	0.530
LTE B5	Ant.1	Level2&3	Left Cheek	0.308	0.539	0.668	0.376	0.847	1.352
		Level2&3	Left Tilt	0.266	0.416	0.617	0.234	0.682	1.117
		Level2&3	Right Cheek	0.454	0.215	0.359	0.128	0.669	0.941
		Level2&3	Right Tilt	0.419	0.245	0.385	0.112	0.664	0.916
LTE B5	Ant.0	Level2&3	Left Cheek	0.152	0.539	0.668	0.376	0.691	1.196
		Level2&3	Left Tilt	0.080	0.416	0.617	0.234	0.496	0.931
		Level2&3	Right Cheek	0.123	0.215	0.359	0.128	0.338	0.610
		Level2&3	Right Tilt	0.067	0.245	0.385	0.112	0.312	0.564
LTE B7	Ant.1	Level2&3	Left Cheek	0.160	0.539	0.668	0.376	0.699	1.204
		Level2&3	Left Tilt	0.218	0.416	0.617	0.234	0.634	1.069
		Level2&3	Right Cheek	0.452	0.215	0.359	0.128	0.667	0.939
		Level2&3	Right Tilt	0.521	0.245	0.385	0.112	0.766	1.018
LTE B7	Ant.0	Level2&3	Left Cheek	0.193	0.539	0.668	0.376	0.732	1.237
		Level2&3	Left Tilt	0.134	0.416	0.617	0.234	0.550	0.985
		Level2&3	Right Cheek	0.385	0.215	0.359	0.128	0.600	0.872
		Level2&3	Right Tilt	0.204	0.245	0.385	0.112	0.449	0.701
LTE B12	Ant.1	Level2&3	Left Cheek	0.067	0.539	0.668	0.376	0.606	1.111
		Level2&3	Left Tilt	0.060	0.416	0.617	0.234	0.476	0.911
		Level2&3	Right Cheek	0.103	0.215	0.359	0.128	0.318	0.590
		Level2&3	Right Tilt	0.099	0.245	0.385	0.112	0.344	0.596
LTE B12	Ant.0	Level2&3	Left Cheek	0.090	0.539	0.668	0.376	0.629	1.134
		Level2&3	Left Tilt	0.027	0.416	0.617	0.234	0.443	0.878

		Level2&3	Right Cheek	0.070	0.215	0.359	0.128	0.285	0.557
		Level2&3	Right Tilt	0.033	0.245	0.385	0.112	0.278	0.530
LTE B13	Ant.1	Level2&3	Left Cheek	0.203	0.539	0.668	0.376	0.742	1.247
		Level2&3	Left Tilt	0.189	0.416	0.617	0.234	0.605	1.040
		Level2&3	Right Cheek	0.341	0.215	0.359	0.128	0.556	0.828
		Level2&3	Right Tilt	0.294	0.245	0.385	0.112	0.539	0.791
		Level2&3	Left Cheek	0.149	0.539	0.668	0.376	0.688	1.193
LTE B13	Ant.0	Level2&3	Left Tilt	0.086	0.416	0.617	0.234	0.502	0.937
		Level2&3	Right Cheek	0.119	0.215	0.359	0.128	0.334	0.606
		Level2&3	Right Tilt	0.074	0.245	0.385	0.112	0.319	0.571
		Level2&3	Left Cheek	0.398	0.539	0.668	0.376	0.937	1.442
LTE B26	Ant.1	Level2&3	Left Tilt	0.335	0.416	0.617	0.234	0.751	1.186
		Level2&3	Right Cheek	0.643	0.215	0.359	0.128	0.858	1.130
		Level2&3	Right Tilt	0.542	0.245	0.385	0.112	0.787	1.039
		Level2&3	Left Cheek	0.141	0.539	0.668	0.376	0.680	1.185
LTE B26	Ant.0	Level2&3	Left Tilt	0.077	0.416	0.617	0.234	0.493	0.928
		Level2&3	Right Cheek	0.107	0.215	0.359	0.128	0.322	0.594
		Level2&3	Right Tilt	0.058	0.245	0.385	0.112	0.303	0.555
		Level2&3	Left Cheek	0.513	0.539	0.668	0.376	1.052	1.557
LTE B66	Ant.1	Level2&3	Left Tilt	0.585	0.416	0.617	0.234	1.001	1.436
		Level2&3	Right Cheek	0.767	0.215	0.359	0.128	0.982	1.254
		Level2&3	Right Tilt	0.870	0.245	0.385	0.112	1.115	1.367
		Level2&3	Left Cheek	0.075	0.539	0.668	0.376	0.614	1.119
LTE B66	Ant.0	Level2&3	Left Tilt	0.043	0.416	0.617	0.234	0.459	0.894
		Level2&3	Right Cheek	0.062	0.215	0.359	0.128	0.277	0.549
		Level2&3	Right Tilt	0.047	0.245	0.385	0.112	0.292	0.544
		Level2&3	Left Cheek	0.232	0.539	0.668	0.376	0.771	1.276
LTE B38	Ant.1	Level2&3	Left Tilt	0.293	0.416	0.617	0.234	0.709	1.144
		Level2&3	Right Cheek	0.702	0.215	0.359	0.128	0.917	1.189
		Level2&3	Right Tilt	0.799	0.245	0.385	0.112	1.044	1.296
		Level2&3	Left Cheek	0.100	0.539	0.668	0.376	0.639	1.144
LTE B38	Ant.0	Level2&3	Left Tilt	0.098	0.416	0.617	0.234	0.514	0.949
		Level2&3	Right Cheek	0.234	0.215	0.359	0.128	0.449	0.721
		Level2&3	Right Tilt	0.145	0.245	0.385	0.112	0.390	0.642
		Level2&3	Left Cheek	0.227	0.539	0.668	0.376	0.766	1.271
LTE B41	Ant.1	Level2&3	Left Tilt	0.283	0.416	0.617	0.234	0.699	1.134
		Level2&3	Right Cheek	0.665	0.215	0.359	0.128	0.880	1.152
		Level2&3	Right Tilt	0.795	0.245	0.385	0.112	1.040	1.292
		Level2&3	Left Cheek	0.129	0.539	0.668	0.376	0.668	1.173
LTE B41	Ant.0	Level2&3	Left Tilt	0.101	0.416	0.617	0.234	0.517	0.952
		Level2&3	Right Cheek	0.244	0.215	0.359	0.128	0.459	0.731
		Level2&3	Right Tilt	0.142	0.245	0.385	0.112	0.387	0.639
		Level2&3	Left Cheek	0.129	0.539	0.668	0.376	0.668	1.173

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 1.557 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 Mode and 2.4G WLAN or 5G WLAN and BT

Band	Antenna	Power Reduction	Position	Stand alone SAR				SUM SAR	
				1	2	3	4	1+2	1+3+4
				WWAN	2.4G WIFI Ant.2	5G WIFI Ant.2	Bluetooth Ant.2	WWAN+2.4G WIFI	WWAN+5G WIFI+BT
GSM850	Ant.1	Level5&6	Front Side 15mm	0.070	0.150	0.114	0.028	0.220	0.212
		Level5&6	Back Side 15mm	0.079	0.186	0.297	0.033	0.265	0.409
GSM850	Ant.0	Level5&6	Front Side 15mm	0.085	0.150	0.114	0.028	0.235	0.227
		Level5&6	Back Side 15mm	0.116	0.186	0.297	0.033	0.302	0.446
GSM1900	Ant.1	Level5&6	Front Side 15mm	0.117	0.150	0.114	0.028	0.267	0.259
		Level5&6	Back Side 15mm	0.150	0.186	0.297	0.033	0.336	0.480
GSM1900	Ant.0	Level5&6	Front Side 15mm	0.131	0.150	0.114	0.028	0.281	0.273
		Level5&6	Back Side 15mm	0.222	0.186	0.297	0.033	0.408	0.552
WCDMA B2	Ant.1	Level5&6	Front Side 15mm	0.115	0.150	0.114	0.028	0.265	0.257
		Level5&6	Back Side 15mm	0.134	0.186	0.297	0.033	0.320	0.464
WCDMA B2	Ant.0	Level5&6	Front Side 15mm	0.183	0.150	0.114	0.028	0.333	0.325
		Level5&6	Back Side 15mm	0.339	0.186	0.297	0.033	0.525	0.669
WCDMA B4	Ant.1	Level5&6	Front Side 15mm	0.084	0.150	0.114	0.028	0.234	0.226
		Level5&6	Back Side 15mm	0.109	0.186	0.297	0.033	0.295	0.439
WCDMA B4	Ant.0	Level5&6	Front Side 15mm	0.128	0.150	0.114	0.028	0.278	0.270
		Level5&6	Back Side 15mm	0.247	0.186	0.297	0.033	0.433	0.577
WCDMA B5	Ant.1	Level5&6	Front Side 15mm	0.102	0.150	0.114	0.028	0.252	0.244
		Level5&6	Back Side 15mm	0.136	0.186	0.297	0.033	0.322	0.466
WCDMA B5	Ant.0	Level5&6	Front Side 15mm	0.079	0.150	0.114	0.028	0.229	0.221
		Level5&6	Back Side 15mm	0.097	0.186	0.297	0.033	0.283	0.427
LTE B2	Ant.1	Level5&6	Front Side 15mm	0.170	0.150	0.114	0.028	0.320	0.312
		Level5&6	Back Side 15mm	0.216	0.186	0.297	0.033	0.402	0.546
LTE B2	Ant.0	Level5&6	Front Side 15mm	0.128	0.150	0.114	0.028	0.278	0.270
		Level5&6	Back Side 15mm	0.253	0.186	0.297	0.033	0.439	0.583
LTE B4	Ant.1	Level5&6	Front Side 15mm	0.141	0.150	0.114	0.028	0.291	0.283
		Level5&6	Back Side 15mm	0.183	0.186	0.297	0.033	0.369	0.513
LTE B4	Ant.0	Level5&6	Front Side 15mm	0.100	0.150	0.114	0.028	0.250	0.242
		Level5&6	Back Side 15mm	0.212	0.186	0.297	0.033	0.398	0.542
LTE B5	Ant.1	Level5&6	Front Side 15mm	0.107	0.150	0.114	0.028	0.257	0.249
		Level5&6	Back Side 15mm	0.129	0.186	0.297	0.033	0.315	0.459
LTE B5	Ant.0	Level5&6	Front Side 15mm	0.074	0.150	0.114	0.028	0.224	0.216
		Level5&6	Back Side 15mm	0.105	0.186	0.297	0.033	0.291	0.435

LTE B7	Ant.1	Level5&6	Front Side 15mm	0.105	0.150	0.114	0.028	0.255	0.247
		Level5&6	Back Side 15mm	0.149	0.186	0.297	0.033	0.335	0.479
LTE B7	Ant.0	Level5&6	Front Side 15mm	0.125	0.150	0.114	0.028	0.275	0.267
		Level5&6	Back Side 15mm	0.194	0.186	0.297	0.033	0.380	0.524
LTE B12	Ant.1	Level5&6	Front Side 15mm	0.015	0.150	0.114	0.028	0.165	0.157
		Level5&6	Back Side 15mm	0.021	0.186	0.297	0.033	0.207	0.351
LTE B12	Ant.0	Level5&6	Front Side 15mm	0.107	0.150	0.114	0.028	0.257	0.249
		Level5&6	Back Side 15mm	0.150	0.186	0.297	0.033	0.336	0.480
LTE B13	Ant.1	Level5&6	Front Side 15mm	0.031	0.150	0.114	0.028	0.181	0.173
		Level5&6	Back Side 15mm	0.061	0.186	0.297	0.033	0.247	0.391
LTE B13	Ant.0	Level5&6	Front Side 15mm	0.127	0.150	0.114	0.028	0.277	0.269
		Level5&6	Back Side 15mm	0.182	0.186	0.297	0.033	0.368	0.512
LTE B26	Ant.1	Level5&6	Front Side 15mm	0.088	0.150	0.114	0.028	0.238	0.230
		Level5&6	Back Side 15mm	0.107	0.186	0.297	0.033	0.293	0.437
LTE B26	Ant.0	Level5&6	Front Side 15mm	0.071	0.150	0.114	0.028	0.221	0.213
		Level5&6	Back Side 15mm	0.108	0.186	0.297	0.033	0.294	0.438
LTE B66	Ant.1	Level5&6	Front Side 15mm	0.149	0.150	0.114	0.028	0.299	0.291
		Level5&6	Back Side 15mm	0.194	0.186	0.297	0.033	0.380	0.524
LTE B66	Ant.0	Level5&6	Front Side 15mm	0.164	0.150	0.114	0.028	0.314	0.306
		Level5&6	Back Side 15mm	0.332	0.186	0.297	0.033	0.518	0.662
LTE B38	Ant.1	Level5&6	Front Side 15mm	0.086	0.150	0.114	0.028	0.236	0.228
		Level5&6	Back Side 15mm	0.136	0.186	0.297	0.033	0.322	0.466
LTE B38	Ant.0	Level5&6	Front Side 15mm	0.195	0.150	0.114	0.028	0.345	0.337
		Level5&6	Back Side 15mm	0.265	0.186	0.297	0.033	0.451	0.595
LTE B41	Ant.1	Level5&6	Front Side 15mm	0.119	0.150	0.114	0.028	0.269	0.261
		Level5&6	Back Side 15mm	0.188	0.186	0.297	0.033	0.374	0.518
LTE B41	Ant.0	Level5&6	Front Side 15mm	0.185	0.150	0.114	0.028	0.335	0.327
		Level5&6	Back Side 15mm	0.270	0.186	0.297	0.033	0.456	0.600

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

12.2.3 Hotspot Simultaneous Transmission SAR Evaluation for WWAN Mode and 2.4G WLAN or 5G WLAN and BT

Band	Antenna	Power Reduction	Position	Stand alone SAR				SUM SAR	
				1	2	3	4	1+2	1+3+4
				WWAN	2.4G WIFI Ant.2	5G WIFI Ant.2	Bluetooth Ant.2	WWAN+2.4G WIFI	WWAN+5G WIFI+BT
GSM850	Ant.1	Level5&6	Front Side 10mm	0.136	0.279	0.200	0.043	0.415	0.379
		Level5&6	Back Side 10mm	0.165	0.409	0.445	0.068	0.574	0.678
		Level5&6	Right Edge 10mm	0.065	/	/	/	/	/
		Level5&6	Top Edge 10mm	0.170	0.241	0.442	0.037	0.411	0.649

GSM850	Ant.0	Level5&6	Front Side 10mm	0.090	0.279	0.200	0.043	0.369	0.333
		Level5&6	Back Side 10mm	0.166	0.409	0.445	0.068	0.575	0.679
		Level5&6	Left Edge 10mm	0.066	0.299	0.321	0.051	0.365	0.438
		Level5&6	Right Edge 10mm	0.101	/	/	/	/	/
		Level5&6	Bottom Edge 10mm	0.101	/	/	/	/	/
GSM1900	Ant.1	Level5&6	Front Side 10mm	0.216	0.279	0.200	0.043	0.495	0.459
		Level5&6	Back Side 10mm	0.280	0.409	0.445	0.068	0.689	0.793
		Level5&6	Right Edge 10mm	0.049	/	/	/	/	/
		Level5&6	Top Edge 10mm	0.433	0.241	0.442	0.037	0.674	0.912
GSM1900	Ant.0	Level5&6	Front Side 10mm	0.165	0.279	0.200	0.043	0.444	0.408
		Level5&6	Back Side 10mm	0.353	0.409	0.445	0.068	0.762	0.866
		Level5&6	Left Edge 10mm	0.075	0.299	0.321	0.051	0.374	0.447
		Level5&6	Right Edge 10mm	0.000	/	/	/	/	/
		Level5&6	Bottom Edge 10mm	0.431	/	/	/	/	/
WCDMA B2	Ant.1	Level5&6	Front Side 10mm	0.292	0.279	0.200	0.043	0.571	0.535
		Level5&6	Back Side 10mm	0.386	0.409	0.445	0.068	0.795	0.899
		Level5&6	Right Edge 10mm	0.080	/	/	/	/	/
		Level5&6	Top Edge 10mm	0.516	0.241	0.442	0.037	0.757	0.995
WCDMA B2	Ant.0	Level5&6	Front Side 10mm	0.271	0.279	0.200	0.043	0.550	0.514
		Level5&6	Back Side 10mm	0.537	0.409	0.445	0.068	0.946	1.050
		Level5&6	Left Edge 10mm	0.114	0.299	0.321	0.051	0.413	0.486
		Level5&6	Right Edge 10mm	0.051	/	/	/	/	/
		Level5&6	Bottom Edge 10mm	0.746	/	/	/	/	/
WCDMA B4	Ant.1	Level5&6	Front Side 10mm	0.289	0.279	0.200	0.043	0.568	0.532
		Level5&6	Back Side 10mm	0.364	0.409	0.445	0.068	0.773	0.877
		Level5&6	Right Edge 10mm	0.078	/	/	/	/	/
		Level5&6	Top Edge 10mm	0.465	0.241	0.442	0.037	0.706	0.944
WCDMA B4	Ant.0	Level5&6	Front Side 10mm	0.224	0.279	0.200	0.043	0.503	0.467
		Level5&6	Back Side 10mm	0.443	0.409	0.445	0.068	0.852	0.956
		Level5&6	Left Edge 10mm	0.078	0.299	0.321	0.051	0.377	0.450
		Level5&6	Right Edge 10mm	0.044	/	/	/	/	/
		Level5&6	Bottom Edge 10mm	0.685	/	/	/	/	/
WCDMA B5	Ant.1	Level5&6	Front Side 10mm	0.184	0.279	0.200	0.043	0.463	0.427
		Level5&6	Back Side 10mm	0.207	0.409	0.445	0.068	0.616	0.720
		Level5&6	Right Edge 10mm	0.109	/	/	/	/	/
		Level5&6	Top Edge 10mm	0.208	0.241	0.442	0.037	0.449	0.687
WCDMA B5	Ant.0	Level5&6	Front Side 10mm	0.086	0.279	0.200	0.043	0.365	0.329
		Level5&6	Back Side 10mm	0.166	0.409	0.445	0.068	0.575	0.679
		Level5&6	Left Edge 10mm	0.067	0.299	0.321	0.051	0.366	0.439
		Level5&6	Right Edge 10mm	0.096	/	/	/	/	/
		Level5&6	Bottom Edge 10mm	0.103	/	/	/	/	/
LTE B2	Ant.1	Level5&6	Front Side 10mm	0.308	0.279	0.200	0.043	0.587	0.551
		Level5&6	Back Side 10mm	0.379	0.409	0.445	0.068	0.788	0.892

		Level5&6	Right Edge 10mm	0.088	/	/	/	/	/
		Level5&6	Top Edge 10mm	0.459	0.241	0.442	0.037	0.700	0.938
LTE B2	Ant.0	Level5&6	Front Side 10mm	0.466	0.279	0.200	0.043	0.745	0.709
		Level5&6	Back Side 10mm	0.445	0.409	0.445	0.068	0.854	0.958
		Level5&6	Left Edge 10mm	0.114	0.299	0.321	0.051	0.413	0.486
		Level5&6	Right Edge 10mm	0.057	/	/	/	/	/
		Level5&6	Bottom Edge 10mm	0.691	/	/	/	/	/
		Level5&6	Front Side 10mm	0.241	0.279	0.200	0.043	0.520	0.484
LTE B4	Ant.1	Level5&6	Back Side 10mm	0.313	0.409	0.445	0.068	0.722	0.826
		Level5&6	Right Edge 10mm	0.067	/	/	/	/	/
		Level5&6	Top Edge 10mm	0.399	0.241	0.442	0.037	0.640	0.878
		Level5&6	Front Side 10mm	0.195	0.279	0.200	0.043	0.474	0.438
LTE B4	Ant.0	Level5&6	Back Side 10mm	0.378	0.409	0.445	0.068	0.787	0.891
		Level5&6	Left Edge 10mm	0.068	0.299	0.321	0.051	0.367	0.440
		Level5&6	Right Edge 10mm	0.038	/	/	/	/	/
		Level5&6	Bottom Edge 10mm	0.600	/	/	/	/	/
		Level5&6	Front Side 10mm	0.133	0.279	0.200	0.043	0.412	0.376
LTE B5	Ant.1	Level5&6	Back Side 10mm	0.152	0.409	0.445	0.068	0.561	0.665
		Level5&6	Right Edge 10mm	0.111	/	/	/	/	/
		Level5&6	Top Edge 10mm	0.153	0.241	0.442	0.037	0.394	0.632
		Level5&6	Front Side 10mm	0.074	0.279	0.200	0.043	0.353	0.317
LTE B5	Ant.0	Level5&6	Back Side 10mm	0.130	0.409	0.445	0.068	0.539	0.643
		Level5&6	Left Edge 10mm	0.057	0.299	0.321	0.051	0.356	0.429
		Level5&6	Right Edge 10mm	0.079	/	/	/	/	/
		Level5&6	Bottom Edge 10mm	0.085	/	/	/	/	/
		Level5&6	Front Side 10mm	0.200	0.279	0.200	0.043	0.479	0.443
LTE B7	Ant.1	Level5&6	Back Side 10mm	0.332	0.409	0.445	0.068	0.741	0.845
		Level5&6	Right Edge 10mm	0.170	/	/	/	/	/
		Level5&6	Top Edge 10mm	0.567	0.241	0.442	0.037	0.808	1.046
		Level5&6	Front Side 10mm	0.259	0.279	0.200	0.043	0.538	0.502
LTE B7	Ant.0	Level5&6	Back Side 10mm	0.395	0.409	0.445	0.068	0.804	0.908
		Level5&6	Left Edge 10mm	0.198	0.299	0.321	0.051	0.497	0.570
		Level5&6	Right Edge 10mm	0.023	/	/	/	/	/
		Level5&6	Bottom Edge 10mm	0.186	/	/	/	/	/
		Level5&6	Front Side 10mm	0.029	0.279	0.200	0.043	0.308	0.272
LTE B12	Ant.1	Level5&6	Back Side 10mm	0.053	0.409	0.445	0.068	0.462	0.566
		Level5&6	Right Edge 10mm	0.000	/	/	/	/	/
		Level5&6	Top Edge 10mm	0.044	0.241	0.442	0.037	0.285	0.523
		Level5&6	Front Side 10mm	0.067	0.279	0.200	0.043	0.346	0.310
LTE B12	Ant.0	Level5&6	Back Side 10mm	0.118	0.409	0.445	0.068	0.527	0.631
		Level5&6	Left Edge 10mm	0.068	0.299	0.321	0.051	0.367	0.440
		Level5&6	Right Edge 10mm	0.111	/	/	/	/	/
		Level5&6	Bottom Edge 10mm	0.055	/	/	/	/	/
		Level5&6	Front Side 10mm	0.067	0.279	0.200	0.043	0.346	0.310

LTE B13	Ant.1	Level5&6	Front Side 10mm	0.060	0.279	0.200	0.043	0.339	0.303
		Level5&6	Back Side 10mm	0.078	0.409	0.445	0.068	0.487	0.591
		Level5&6	Right Edge 10mm	0.060	/	/	/	/	/
		Level5&6	Top Edge 10mm	0.075	0.241	0.442	0.037	0.316	0.554
LTE B13	Ant.0	Level5&6	Front Side 10mm	0.113	0.279	0.200	0.043	0.392	0.356
		Level5&6	Back Side 10mm	0.194	0.409	0.445	0.068	0.603	0.707
		Level5&6	Left Edge 10mm	0.103	0.299	0.321	0.051	0.402	0.475
		Level5&6	Right Edge 10mm	0.176	/	/	/	/	/
		Level5&6	Bottom Edge 10mm	0.154	/	/	/	/	/
LTE B26	Ant.1	Level5&6	Front Side 10mm	0.123	0.279	0.200	0.043	0.402	0.366
		Level5&6	Back Side 10mm	0.140	0.409	0.445	0.068	0.549	0.653
		Level5&6	Right Edge 10mm	0.073	/	/	/	/	/
		Level5&6	Top Edge 10mm	0.144	0.241	0.442	0.037	0.385	0.623
LTE B26	Ant.0	Level5&6	Front Side 10mm	0.051	0.279	0.200	0.043	0.330	0.294
		Level5&6	Back Side 10mm	0.116	0.409	0.445	0.068	0.525	0.629
		Level5&6	Left Edge 10mm	0.040	0.299	0.321	0.051	0.339	0.412
		Level5&6	Right Edge 10mm	0.050	/	/	/	/	/
		Level5&6	Bottom Edge 10mm	0.058	/	/	/	/	/
LTE B66	Ant.1	Level5&6	Front Side 10mm	0.322	0.279	0.200	0.043	0.601	0.565
		Level5&6	Back Side 10mm	0.422	0.409	0.445	0.068	0.831	0.935
		Level5&6	Right Edge 10mm	0.088	/	/	/	/	/
		Level5&6	Top Edge 10mm	0.562	0.241	0.442	0.037	0.803	1.041
LTE B66	Ant.0	Level5&6	Front Side 10mm	0.223	0.279	0.200	0.043	0.502	0.466
		Level5&6	Back Side 10mm	0.472	0.409	0.445	0.068	0.881	0.985
		Level5&6	Left Edge 10mm	0.085	0.299	0.321	0.051	0.384	0.457
		Level5&6	Right Edge 10mm	0.048	/	/	/	/	/
		Level5&6	Bottom Edge 10mm	0.678	/	/	/	/	/
LTE B38	Ant.1	Level5&6	Front Side 10mm	0.189	0.279	0.200	0.043	0.468	0.432
		Level5&6	Back Side 10mm	0.310	0.409	0.445	0.068	0.719	0.823
		Level5&6	Right Edge 10mm	0.144	/	/	/	/	/
		Level5&6	Top Edge 10mm	0.507	0.241	0.442	0.037	0.748	0.986
LTE B38	Ant.0	Level5&6	Front Side 10mm	0.317	0.279	0.200	0.043	0.596	0.560
		Level5&6	Back Side 10mm	0.480	0.409	0.445	0.068	0.889	0.993
		Level5&6	Left Edge 10mm	0.215	0.299	0.321	0.051	0.514	0.587
		Level5&6	Right Edge 10mm	0.000	/	/	/	/	/
		Level5&6	Bottom Edge 10mm	0.200	/	/	/	/	/
LTE B41	Ant.1	Level5&6	Front Side 10mm	0.282	0.279	0.200	0.043	0.561	0.525
		Level5&6	Back Side 10mm	0.485	0.409	0.445	0.068	0.894	0.998
		Level5&6	Right Edge 10mm	0.249	/	/	/	/	/
		Level5&6	Top Edge 10mm	0.722	0.241	0.442	0.037	0.963	1.201
LTE B41	Ant.0	Level5&6	Front Side 10mm	0.317	0.279	0.200	0.043	0.596	0.560
		Level5&6	Back Side 10mm	0.484	0.409	0.445	0.068	0.893	0.997
		Level5&6	Left Edge 10mm	0.196	0.299	0.321	0.051	0.495	0.568

		Level5&6	Right Edge 10mm	0.000	/	/	/	/	/
		Level5&6	Bottom Edge 10mm	0.223	/	/	/	/	/

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 1.201 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
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	2021/12/29	2022/12/28
Data Acquisition Electronics	Speag	DAE4	SN: 1454	2021/11/05	2022/11/04
Signal Generator	R&S	SMB100A	177746	2021/08/24	2022/08/23
Power Meter	R&S	NRVD-B2	7250BJ-0112/2011	2021/09/08	2022/09/07
Power Sensor	R&S	NRV-Z4	100381	2021/09/08	2022/09/07
Power Sensor	R&S	NRV-Z2	100211	2021/09/08	2022/09/07
Wireless Communication Test Set	Anritsu	MT8820C	6201502974	2022/01/04	2023/01/03
Network Analyzer	Agilent	E5071B	MY42404001	2021/04/01	2022/03/31
Thermometer	Elitech	RC-4HC	EF720B004820	2021/12/01	2022/11/30
Power Amplifier	SATIMO	6552B	22374	N/A	N/A
Dielectric Probe Kit	SATIMO	SCLMP	SN 25/13 OCPG56	N/A	N/A
Phantom1	Speag	SAM	SN: 1859	N/A	N/A
Phantom2	Speag	SAM	SN: 1857	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	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 (%)
2022.03.07	Head	750	21.6	0.91	41.65	0.89	41.94	2.25	-0.69
2022.03.15	Head	750	21.4	0.88	41.88	0.89	41.94	-1.12	-0.14
2022.03.08	Head	835	21.4	0.89	41.86	0.90	41.50	-1.11	0.87
2022.03.09	Head	835	21.6	0.90	41.85	0.90	41.50	0.00	0.84
2022.03.10	Head	835	21.9	0.93	41.16	0.90	41.50	3.33	-0.82
2022.03.16	Head	835	21.1	0.87	40.60	0.90	41.50	-3.33	-2.17
2022.03.17	Head	835	21.0	0.89	41.01	0.90	41.50	-1.11	-1.18
2022.03.18	Head	835	21.3	0.88	42.64	0.90	41.50	-2.22	2.75
2022.03.19	Head	835	21.5	0.88	40.18	0.90	41.50	-2.22	-3.18
2022.03.11	Head	1750	21.2	1.38	40.24	1.37	40.08	0.73	0.40
2022.03.05	Head	1750	21.1	1.36	38.86	1.37	40.08	-0.73	-3.04
2022.03.12	Head	1900	21.3	1.40	39.84	1.40	40.00	0.00	-0.40
2022.03.04	Head	1900	21.1	1.41	40.01	1.40	40.00	0.71	0.02
2022.03.24	Head	1900	21.3	1.37	39.47	1.40	40.00	-2.14	-1.33
2022.03.20	Head	2450	21.0	1.76	38.23	1.80	39.20	-2.22	-2.47
2022.03.06	Head	2600	21.4	2.01	39.99	1.96	39.01	2.55	2.51
2022.03.13	Head	2600	21.7	1.98	38.42	1.96	39.01	1.02	-1.51
2022.03.14	Head	2600	21.4	1.98	38.63	1.96	39.01	1.02	-0.97
2022.03.21	Head	5250	21.1	4.61	36.57	4.66	35.99	-1.07	1.61
2022.03.22	Head	5600	21.3	5.08	35.75	5.07	35.53	0.20	0.62
2022.03.23	Head	5750	21.2	5.16	35.72	5.27	35.30	-2.09	1.19
2022.03.31	Head	1750	21.6	1.38	40.19	1.37	40.08	0.73	0.27
2022.03.31	Head	1900	21.9	1.40	39.74	1.40	40.00	0.00	-0.65
2022.03.31	Head	5600	21.2	5.06	35.22	5.07	35.53	-0.20	-0.87

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	Liquid Type	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)
2022.03.07	Head	750	100	0.820	8.20	8.29	-1.09
2022.03.15	Head	750	100	0.848	8.48	8.29	2.29
2022.03.08	Head	835	100	0.971	9.71	9.76	-0.51
2022.03.09	Head	835	100	0.958	9.58	9.76	-1.84
2022.03.10	Head	835	100	0.957	9.57	9.76	-1.95
2022.03.16	Head	835	100	0.948	9.48	9.76	-2.87
2022.03.17	Head	835	100	1.040	10.40	9.76	6.56
2022.03.18	Head	835	100	0.946	9.46	9.76	-3.07
2022.03.19	Head	835	100	0.992	9.92	9.76	1.64
2022.03.11	Head	1750	100	3.630	36.30	36.70	-1.09
2022.03.05	Head	1750	100	3.910	39.10	36.70	6.54
2022.03.12	Head	1900	100	4.150	41.50	40.30	2.98
2022.03.04	Head	1900	100	3.980	39.80	40.30	-1.24
2022.03.24	Head	1900	100	4.120	41.20	40.30	2.23
2022.03.20	Head	2450	100	5.150	51.50	53.00	-2.83
2022.03.06	Head	2600	100	5.510	55.10	56.80	-2.99
2022.03.13	Head	2600	100	5.560	55.60	56.80	-2.11
2022.03.14	Head	2600	100	5.590	55.90	56.80	-1.58
2022.03.21	Head	5250	100	7.630	76.30	77.80	-1.93
2022.03.22	Head	5600	100	8.290	82.90	81.20	2.09
2022.03.23	Head	5750	100	7.540	75.40	77.20	-2.33
2022.03.31	Head	1750	100	3.920	39.20	36.70	6.81
2022.03.31	Head	1900	100	4.160	41.60	40.30	3.23
2022.03.31	Head	5600	100	8.260	82.60	81.20	1.72
Note: The tolerance limit of System validation $\pm 10\%$.							

Head liquid 10g

Date	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)
2022.03.22	5600	100	2.380	23.80	23.10	3.03
2022.03.31	5600	100	2.350	23.50	23.10	1.73

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

System Performance Check Data (750MHz Head)

Date: 2022.03.07

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

Medium parameters used (extrapolated): $f = 750$ MHz; $\sigma = 0.905$ S/m; $\epsilon_r = 41.647$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.5 Liquid Temperature: 21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.1, 10.1, 10.1); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.809 W/kg

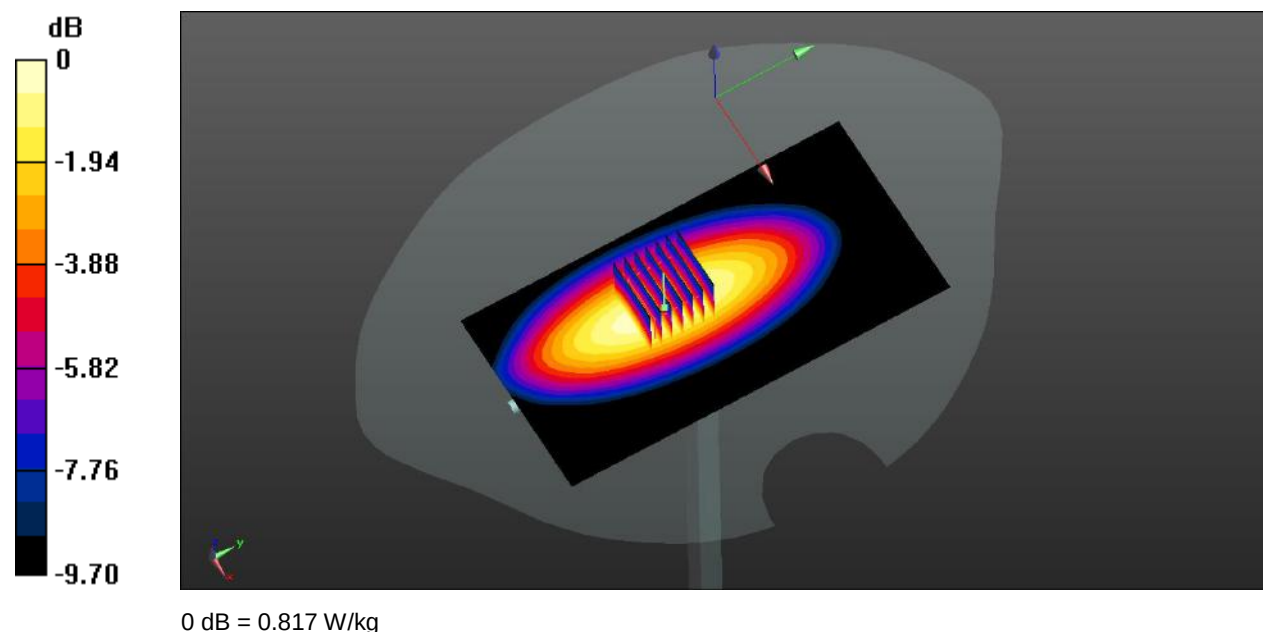
CW 750 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 28.05 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.10 W/kg

SAR(1 g) = 0.82 W/kg; SAR(10 g) = 0.529 W/kg

Maximum value of SAR (measured) = 0.817 W/kg



System Performance Check Data (750MHz Head)

Date: 2022.03.15

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

Medium parameters used (extrapolated): $f = 750$ MHz; $\sigma = 0.884$ S/m; $\epsilon_r = 41.881$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.6 Liquid Temperature: 21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.1, 10.1, 10.1); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.884 W/kg

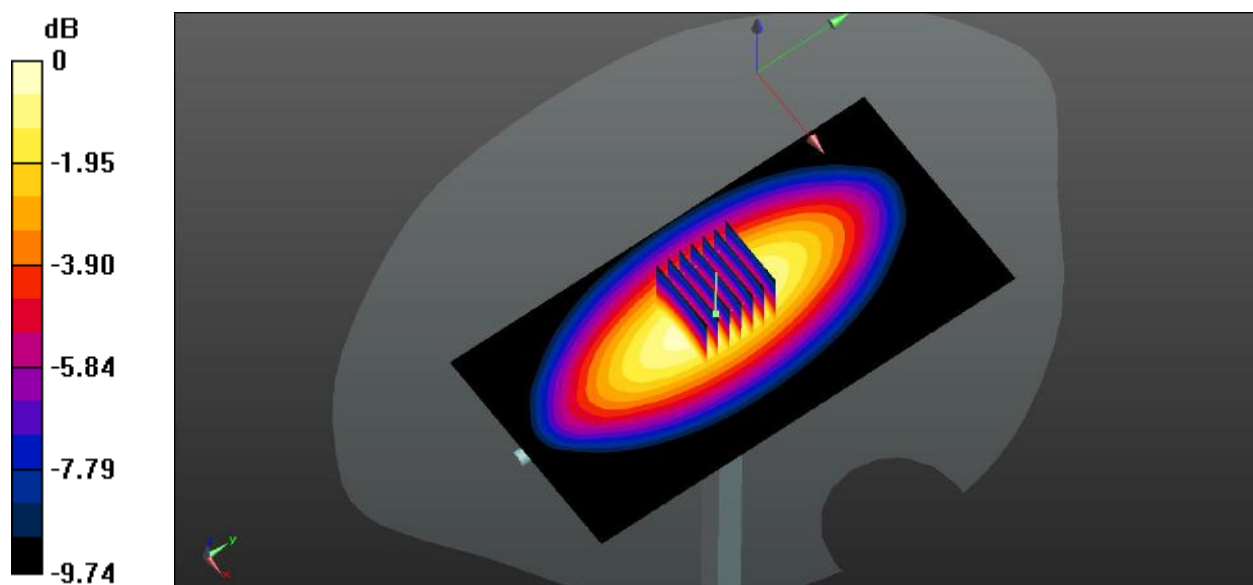
CW 750 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 30.96 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.16 W/kg

SAR(1 g) = 0.848 W/kg; SAR(10 g) = 0.554 W/kg

Maximum value of SAR (measured) = 0.832 W/kg



0 dB = 0.832 W/kg

System Performance Check Data (835MHz Head)

Date: 2022.03.08

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

Medium parameters used: $f = 835$ MHz; $\sigma = 0.894$ S/m; $\epsilon_r = 41.864$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3 Liquid Temperature: 21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.72, 9.72, 9.72); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

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

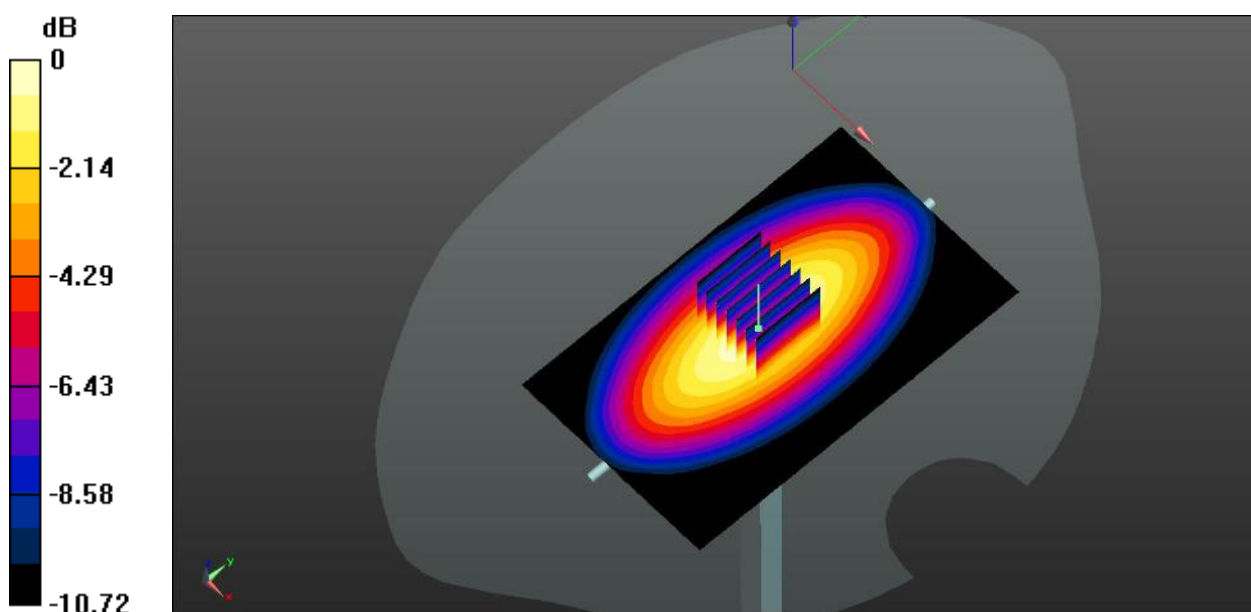
CW 835 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 33.26 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.34 W/kg

SAR(1 g) = 0.971 W/kg; SAR(10 g) = 0.624 W/kg

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



0 dB = 1.05 W/kg

System Performance Check Data (835MHz Head)

Date: 2022.03.09

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

Medium parameters used: $f = 835$ MHz; $\sigma = 0.9$ S/m; $\epsilon_r = 41.849$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.1 Liquid Temperature: 21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.72, 9.72, 9.72); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

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

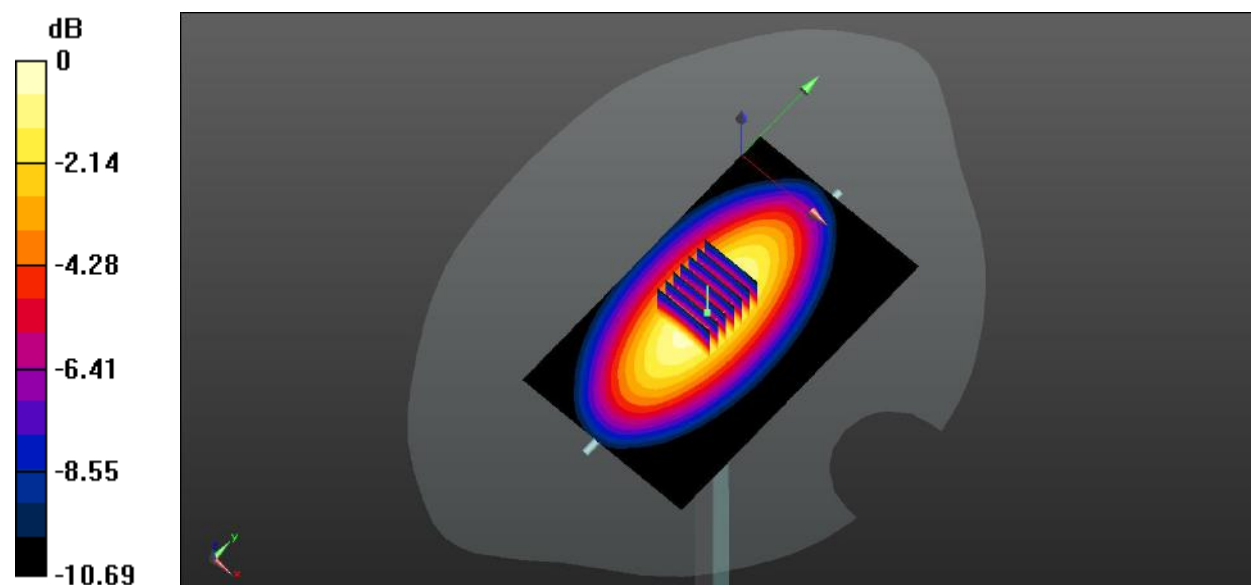
CW 835 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 33.46 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.40 W/kg

SAR(1 g) = 0.958 W/kg; SAR(10 g) = 0.626 W/kg

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



System Performance Check Data (835MHz Head)

Date: 2022.03.10

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

Medium parameters used: $f = 835$ MHz; $\sigma = 0.932$ S/m; $\epsilon_r = 41.16$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.8 Liquid Temperature: 21.9

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.72, 9.72, 9.72); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

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

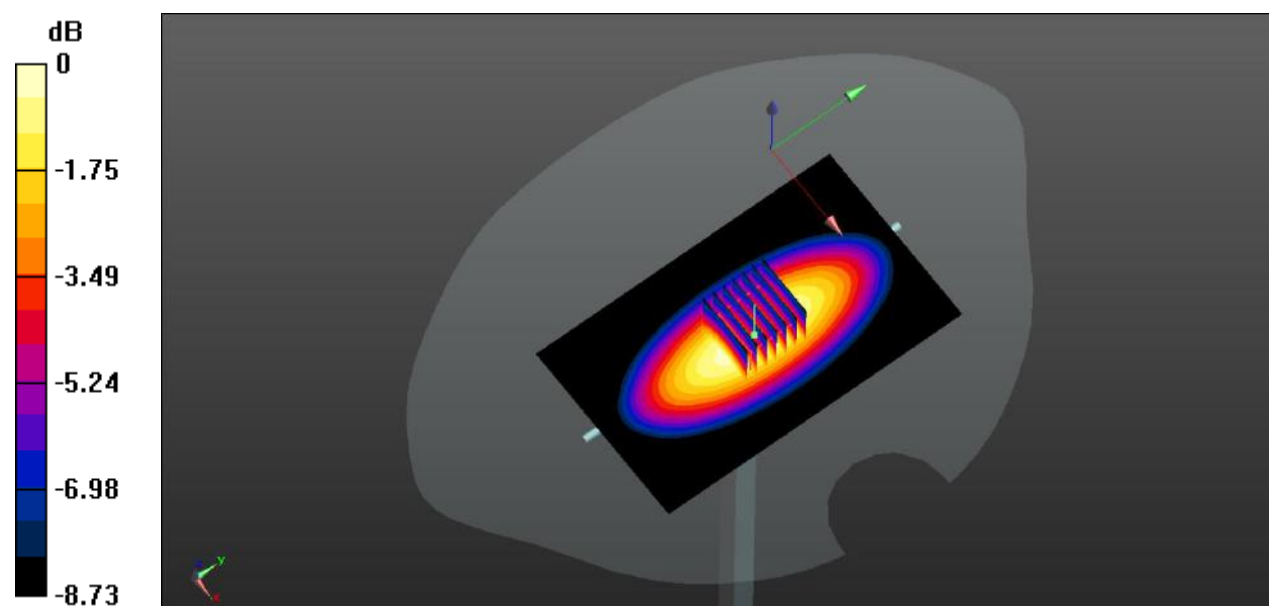
CW 835 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 31.28 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.957 W/kg; SAR(10 g) = 0.619 W/kg

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



0 dB = 1.04 W/kg

System Performance Check Data (835MHz Head)

Date: 2022.03.16

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

Medium parameters used: $f = 835$ MHz; $\sigma = 0.87$ S/m; $\epsilon_r = 40.604$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.2 Liquid Temperature: 21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.72, 9.72, 9.72); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.982 W/kg

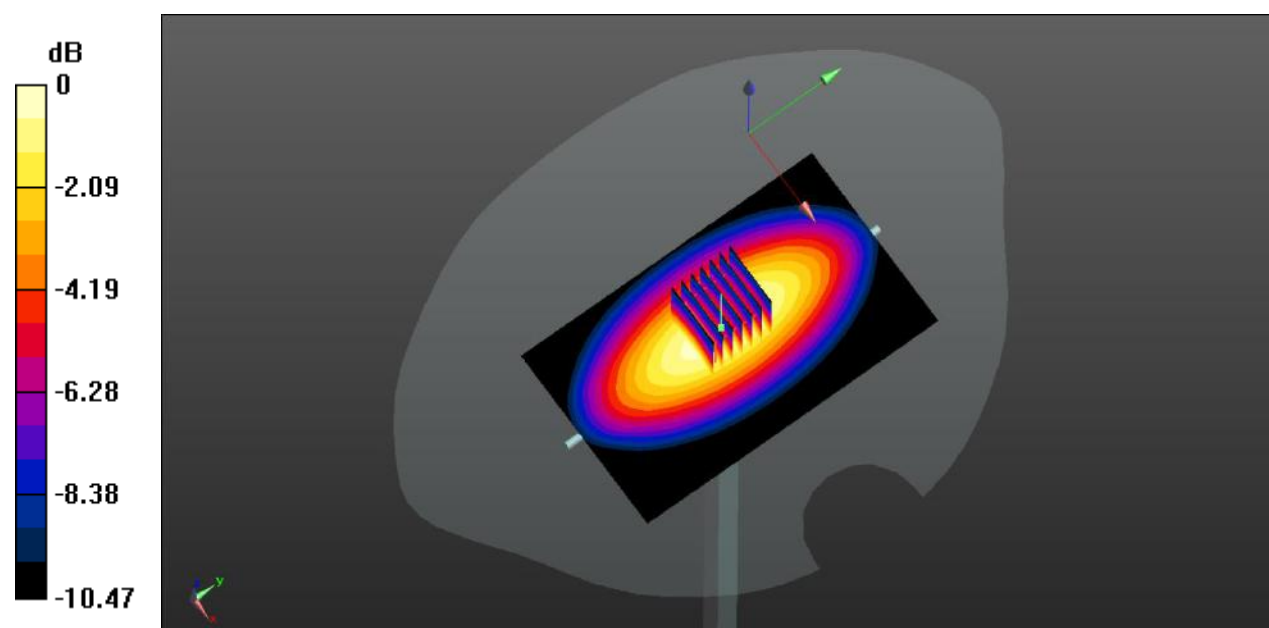
CW 835 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 33.02 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 1.36 W/kg

SAR(1 g) = 0.948 W/kg; SAR(10 g) = 0.605 W/kg

Maximum value of SAR (measured) = 0.978 W/kg



0 dB = 0.978 W/kg

System Performance Check Data (835MHz Head)

Date: 2022.03.17

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

Medium parameters used: $f = 835$ MHz; $\sigma = 0.892$ S/m; $\epsilon_r = 41.014$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.7 Liquid Temperature: 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.72, 9.72, 9.72); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

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

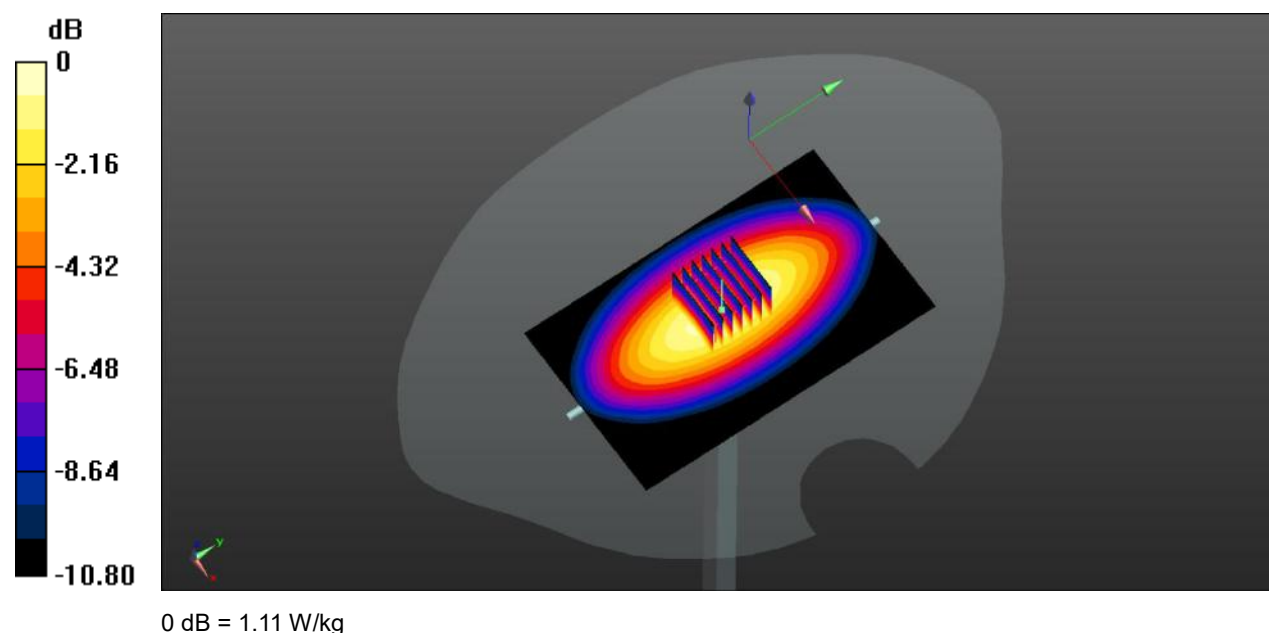
CW 835 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 34.95 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.49 W/kg

SAR(1 g) = 1.04 W/kg; SAR(10 g) = 0.676 W/kg

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



System Performance Check Data (835MHz Head)

Date: 2022.03.18

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

Medium parameters used: $f = 835$ MHz; $\sigma = 0.882$ S/m; $\epsilon_r = 42.641$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.4 Liquid Temperature: 21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.72, 9.72, 9.72); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.976 W/kg

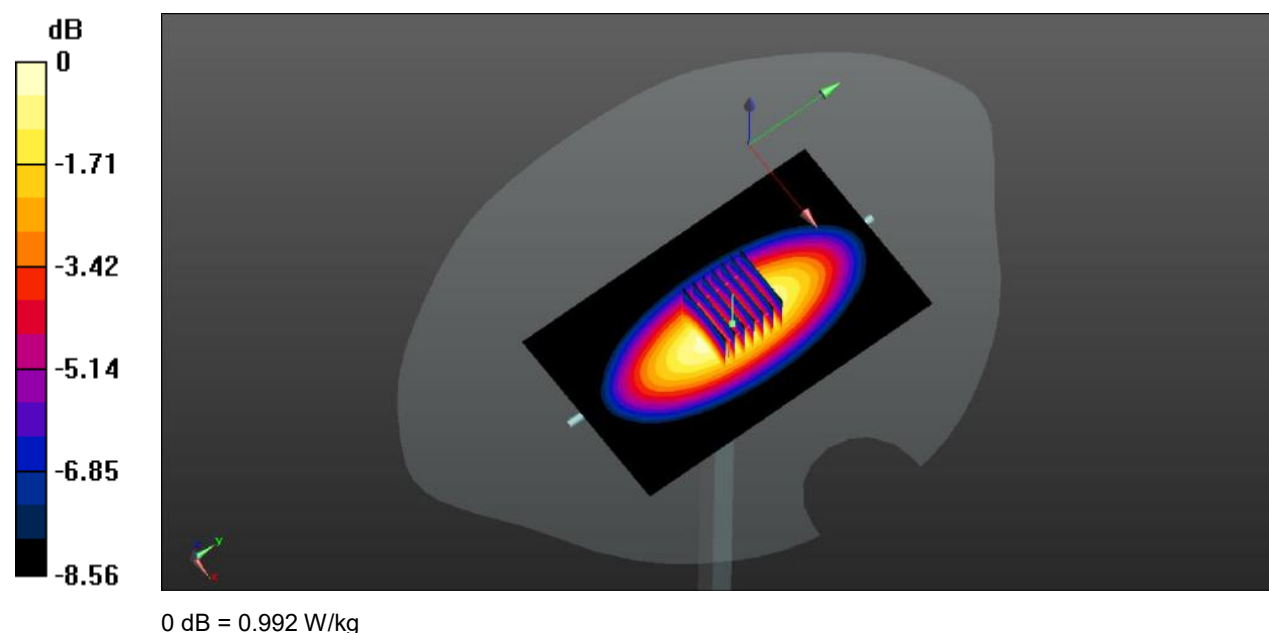
CW 835 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 30.03 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.946 W/kg; SAR(10 g) = 0.610 W/kg

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



System Performance Check Data (835MHz Head)

Date: 2022.03.19

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

Medium parameters used: $f = 835$ MHz; $\sigma = 0.88$ S/m; $\epsilon_r = 40.184$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.8 Liquid Temperature: 21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.72, 9.72, 9.72); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

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

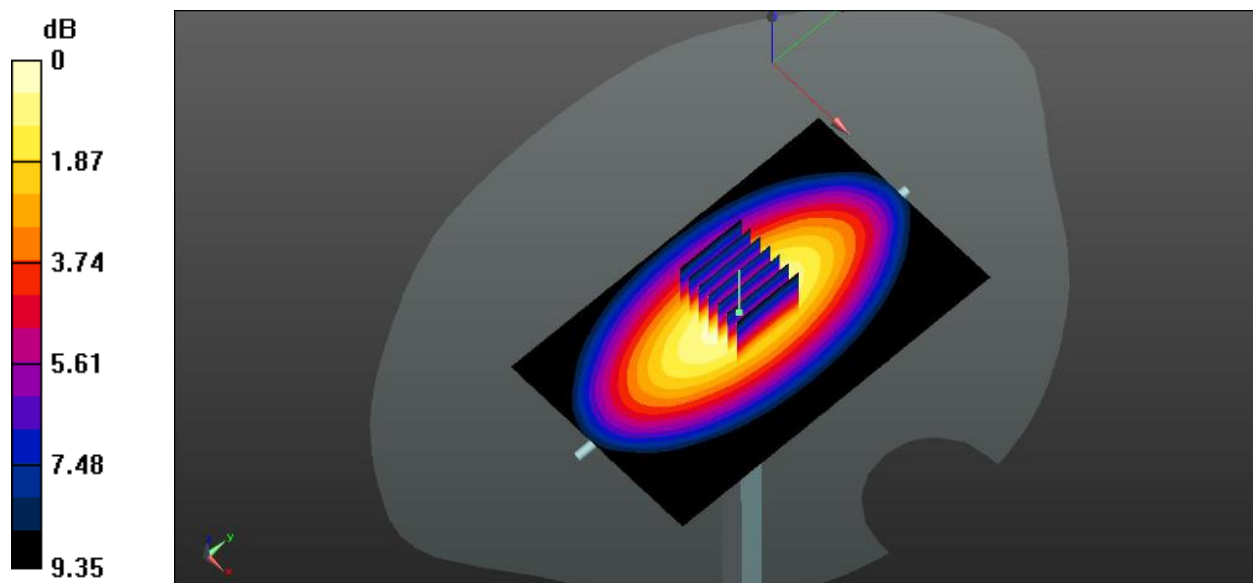
CW 835 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 35.11 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.48 W/kg

SAR(1 g) = 0.992 W/kg; SAR(10 g) = 0.645 W/kg

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



0 dB = 1.06 W/kg

System Performance Check Data (1750MHz Head)

Date: 2022.03.11

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

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.382$ S/m; $\epsilon_r = 40.24$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.2 Liquid Temperature: 21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.51, 8.51, 8.51); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

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

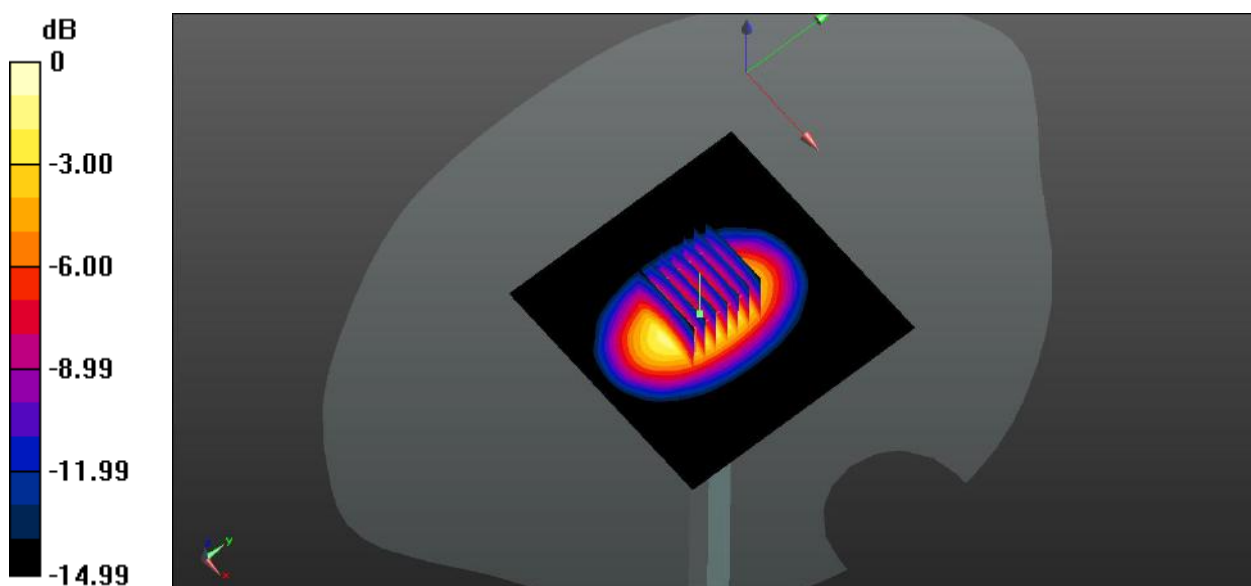
CW 1750 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 54.32 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 6.47 W/kg

SAR(1 g) = 3.63 W/kg; SAR(10 g) = 2.01 W/kg

Maximum value of SAR (measured) = 4.12 W/kg



0 dB = 4.12 W/kg

System Performance Check Data (1750MHz Head)

Date: 2022.03.05

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

Medium parameters used (interpolated): $f = 1750$ MHz; $\sigma = 1.385$ S/m; $\epsilon_r = 38.858$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.7 Liquid Temperature: 21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.51, 8.51, 8.51); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 4.33 W/kg

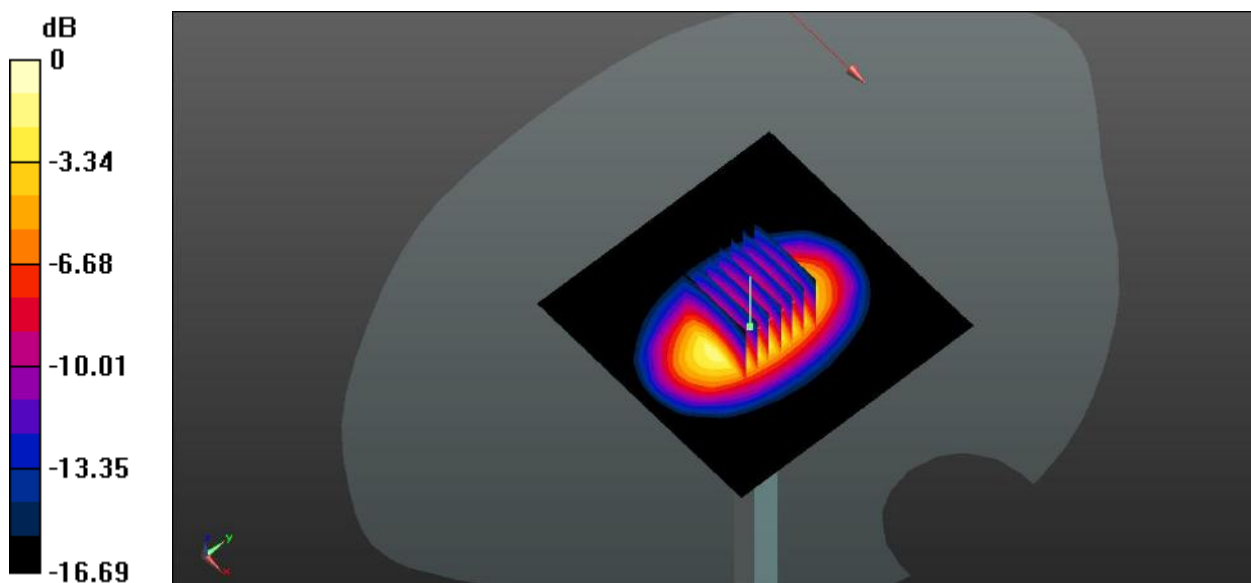
CW1750 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 54.89 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 7.06 W/kg

SAR(1 g) = 3.91 W/kg; SAR(10 g) = 2.05 W/kg

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



0 dB = 4.18 W/kg

System Performance Check Data (1900MHz Head)

Date: 2022.03.12

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.395$ S/m; $\epsilon_r = 39.841$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.6 Liquid Temperature: 21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.13, 8.13, 8.13,); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 4.62 W/kg

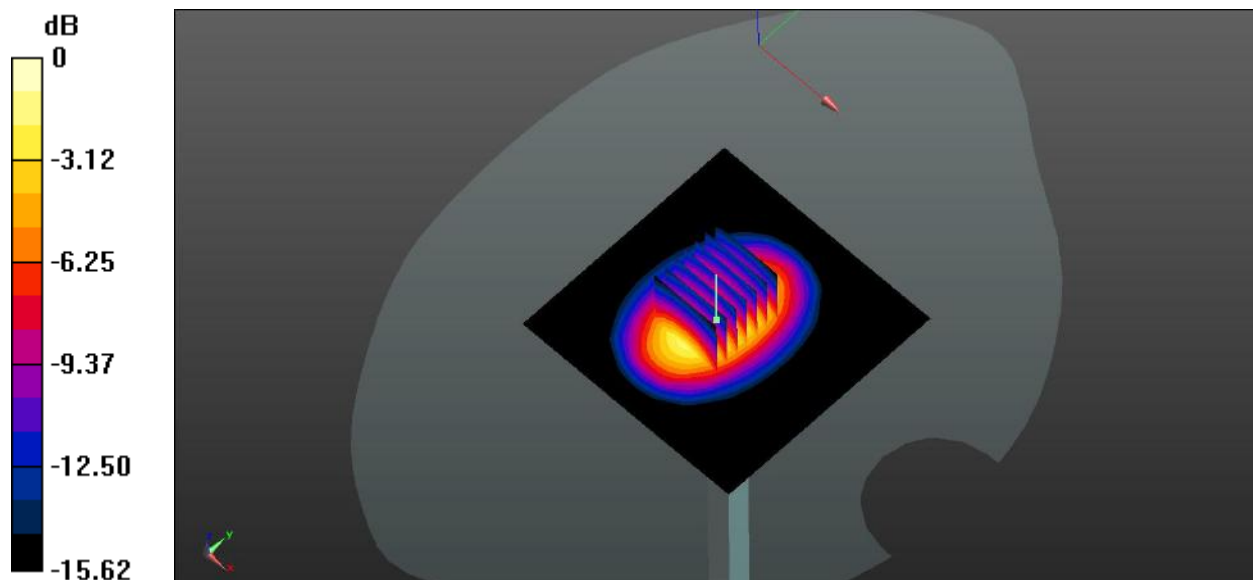
CW 1900 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 55.15 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 7.36 W/kg

SAR(1 g) = 4.15 W/kg; SAR(10 g) = 2.08 W/kg

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



0 dB = 4.65 W/kg

System Performance Check Data (1900MHz Head)

Date: 2022.03.04

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.41$ S/m; $\epsilon_r = 40.01$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3 Liquid Temperature: 21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.13, 8.13, 8.13,); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 4.38 W/kg

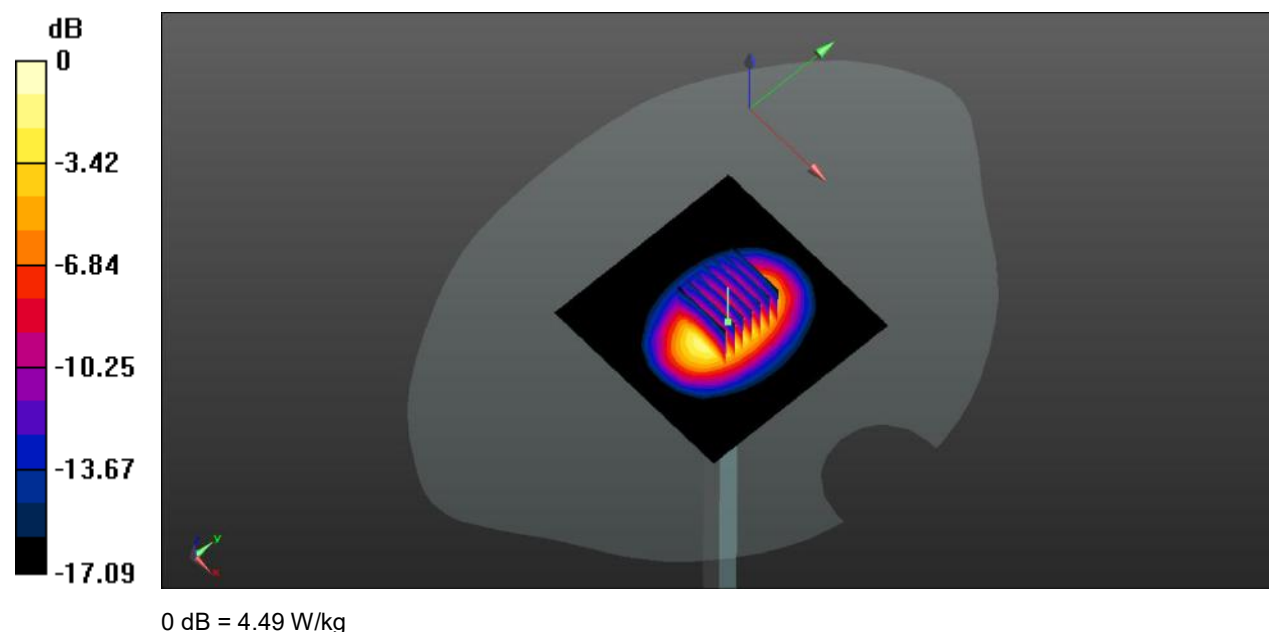
CW 1900 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 53.16 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 7.25 W/kg

SAR(1 g) = 3.98 W/kg; SAR(10 g) = 2.09 W/kg

Maximum value of SAR (measured) = 4.49 W/kg



System Performance Check Data (1900MHz Head)

Date: 2022.03.24

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.368$ S/m; $\epsilon_r = 39.472$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3 Liquid Temperature: 21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.13, 8.13, 8.13,); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 4.55 W/kg

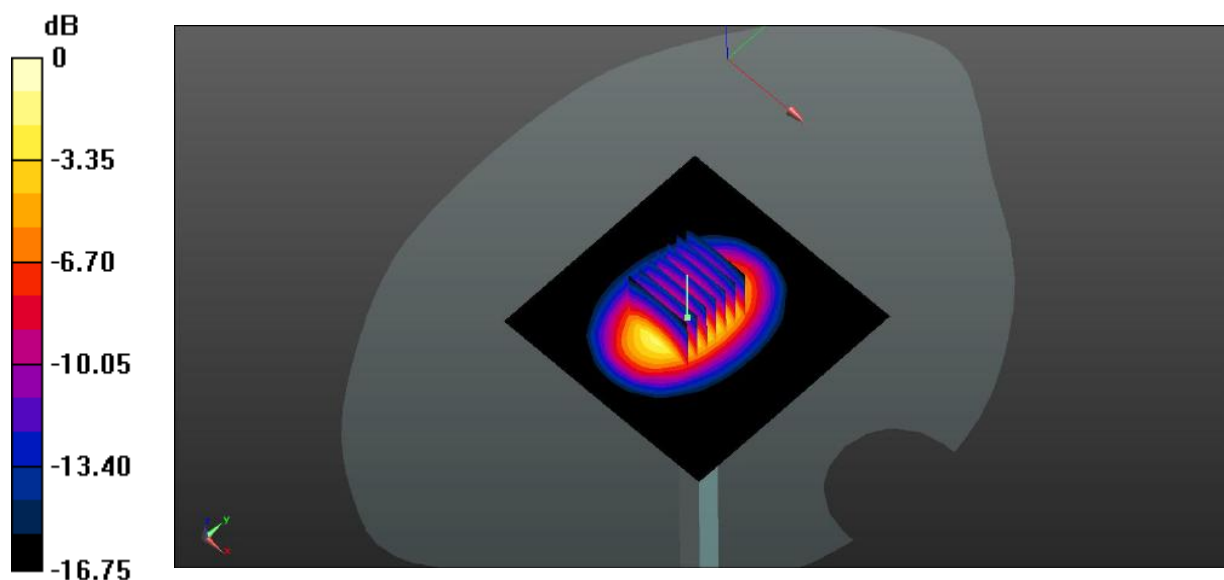
CW 1900 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 54.17 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 7.24 W/kg

SAR(1 g) = 4.12 W/kg; SAR(10 g) = 1.91 W/kg

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



0 dB = 4.58 W/kg

System Performance Check Data (2450MHz Head)

Date: 2022.03.20

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

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.759$ S/m; $\epsilon_r = 38.232$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3 Liquid Temperature: 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.63, 7.63, 7.63); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 5.88 W/kg

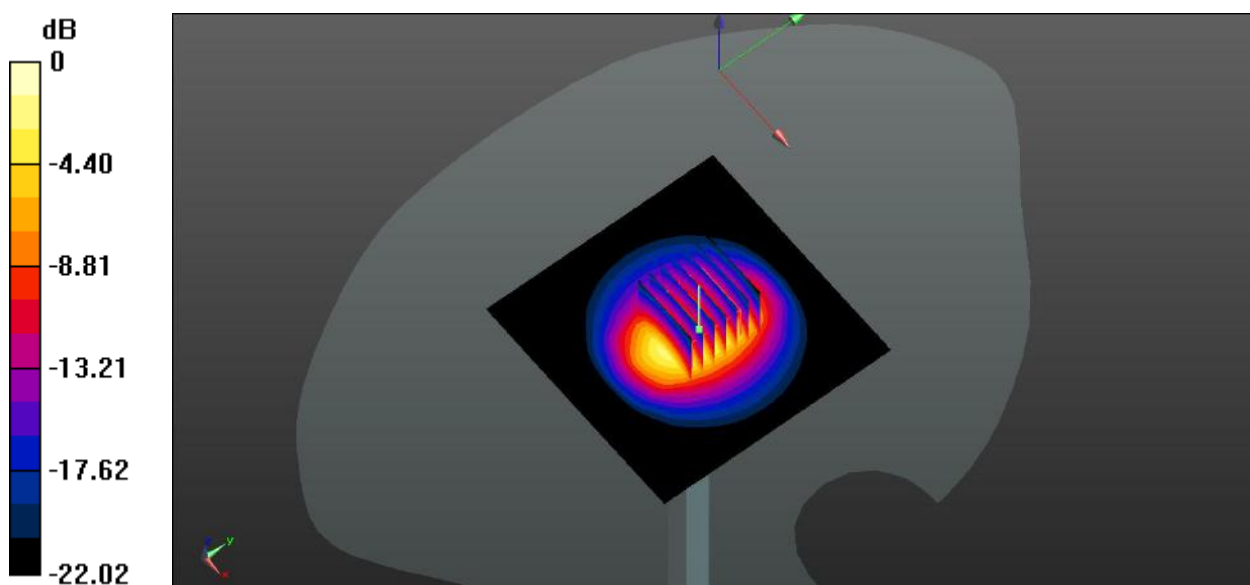
CW 2450 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 53.82 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 10.5 W/kg

SAR(1 g) = 5.15 W/kg; SAR(10 g) = 2.28 W/kg

Maximum value of SAR (measured) = 5.81 W/kg



0 dB = 5.81 W/kg

System Performance Check Data (2600MHz Head)

Date: 2022.03.06

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

Medium parameters used: $f = 2600$ MHz; $\sigma = 2.012$ S/m; $\epsilon_r = 39.989$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.6 Liquid Temperature: 21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.4, 7.4, 7.4); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 6.47 W/kg

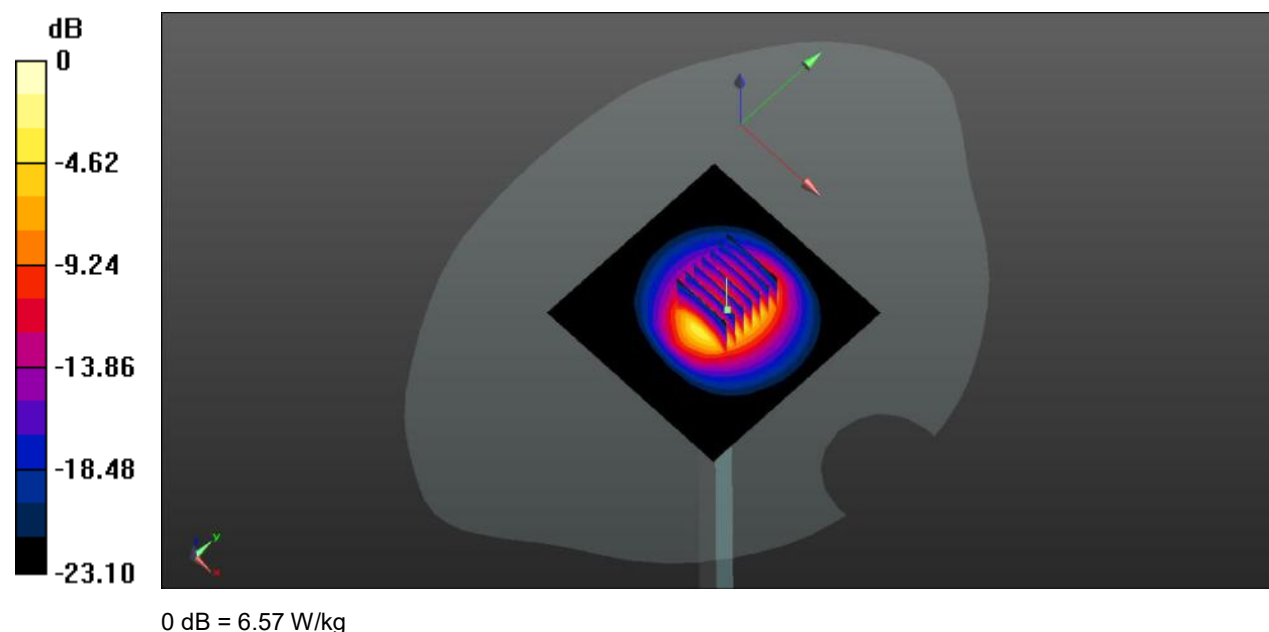
CW 2600 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 50.14 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 11.1 W/kg

SAR(1 g) = 5.51 W/kg; SAR(10 g) = 2.36 W/kg

Maximum value of SAR (measured) = 6.57 W/kg



System Performance Check Data (2600MHz Head)

Date: 2022.03.13

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

Medium parameters used (extrapolated): $f = 2600$ MHz; $\sigma = 1.975$ S/m; $\epsilon_r = 38.419$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.8 Liquid Temperature: 21.7

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.4, 7.4, 7.4); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

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

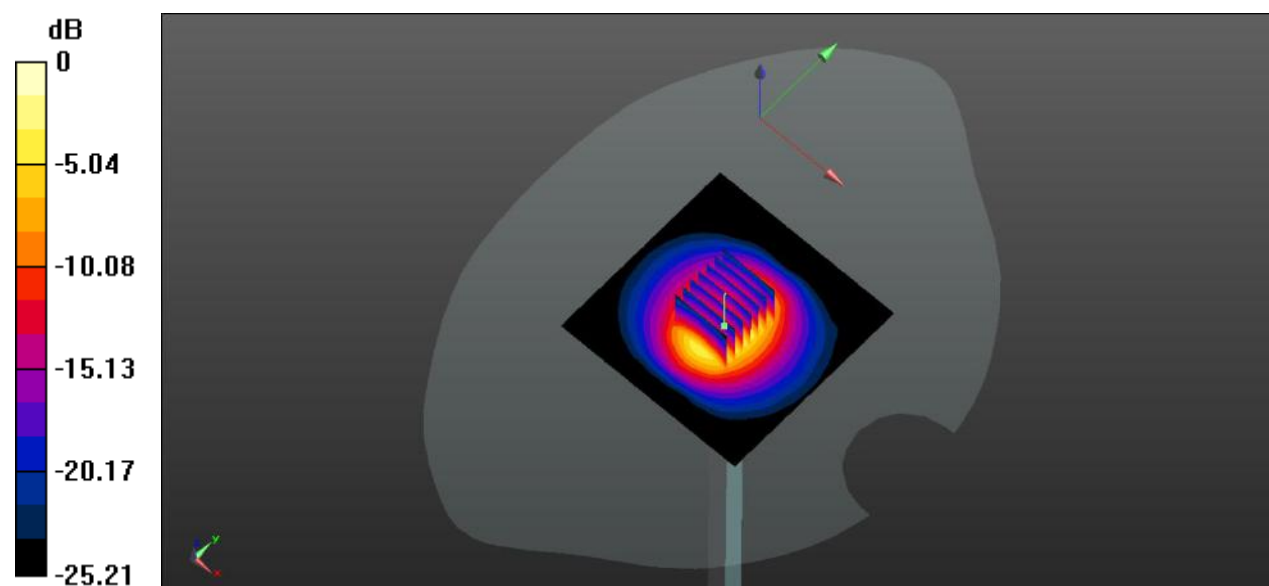
CW 2600 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 56.45 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 12.7 W/kg

SAR(1 g) = 5.56 W/kg; SAR(10 g) = 2.45 W/kg

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



0 dB = 6.42 W/kg

System Performance Check Data (2600MHz Head)

Date: 2022.03.14

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

Medium parameters used (extrapolated): $f = 2600$ MHz; $\sigma = 1.975$ S/m; $\epsilon_r = 38.63$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3 Liquid Temperature: 21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.4, 7.4, 7.4); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 6.78 W/kg

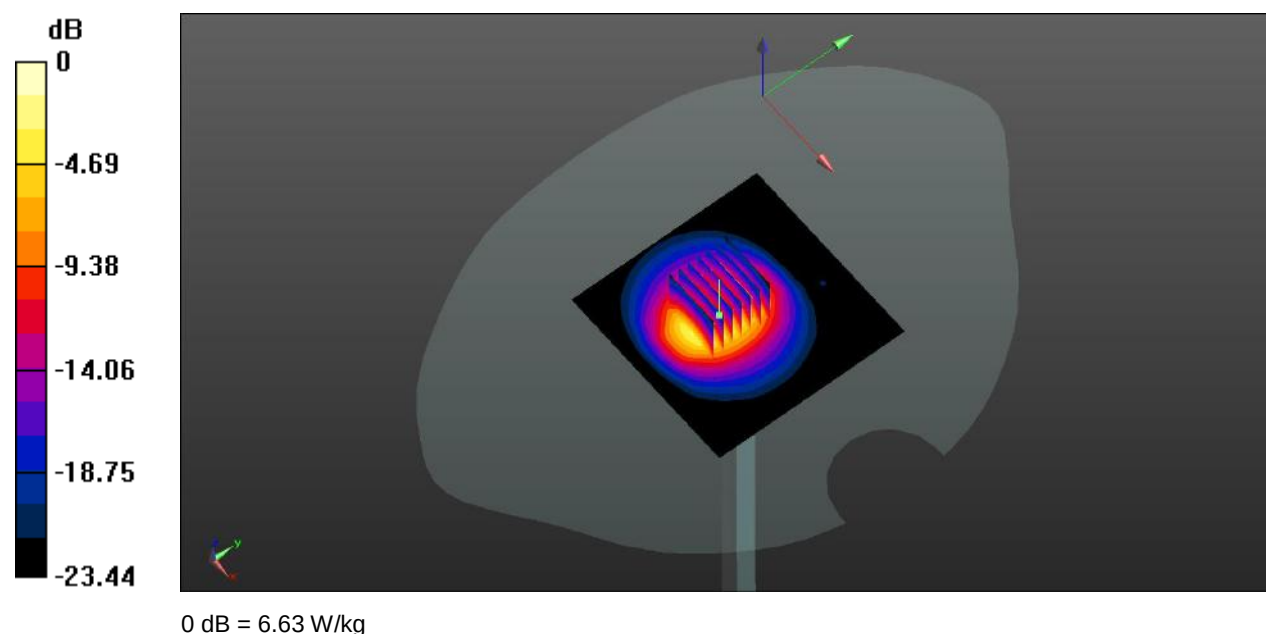
CW 2600 100mW /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 45.47 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 11.9 W/kg

SAR(1 g) = 5.59 W/kg; SAR(10 g) = 2.41 W/kg

Maximum value of SAR (measured) = 6.63 W/kg



System Performance Check Data (5250MHz Head)

Date: 2022.03.21

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

Medium parameters used: $f = 5250$ MHz; $\sigma = 4.605$ S/m; $\epsilon_r = 36.571$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3 Liquid Temperature: 21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(5.42, 5.42, 5.42); Calibrated: 2021.12.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 5250 100mW/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 11.1 W/kg

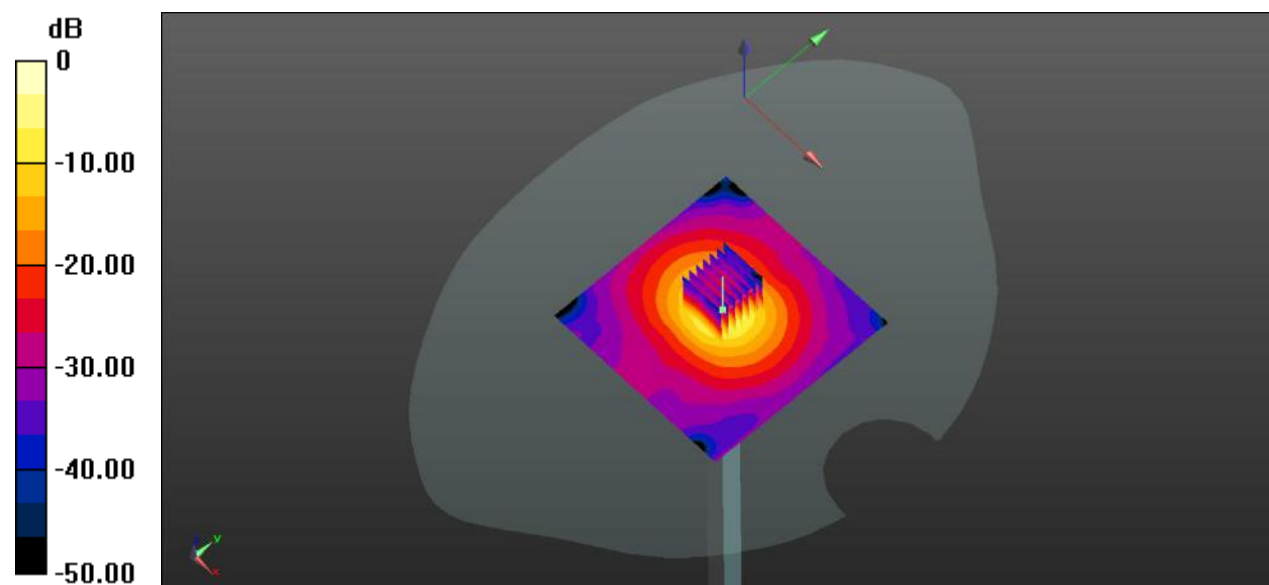
CW 5250 100mW/Zoom Scan (7x7x15)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 37.25 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 31.3 W/kg

SAR(1 g) = 7.63 W/kg; SAR(10 g) = 2.15 W/kg

Maximum value of SAR (measured) = 18.2 W/kg



0 dB = 18.2 W/kg

System Performance Check Data (5600MHz Head)

Date: 2022.03.22

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

Medium parameters used: $f = 5600$ MHz; $\sigma = 5.084$ S/m; $\epsilon_r = 35.748$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.6 Liquid Temperature: 21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(4.81, 4.81, 4.81); Calibrated: 2021.12.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW5600 100mW/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 8.39 W/kg

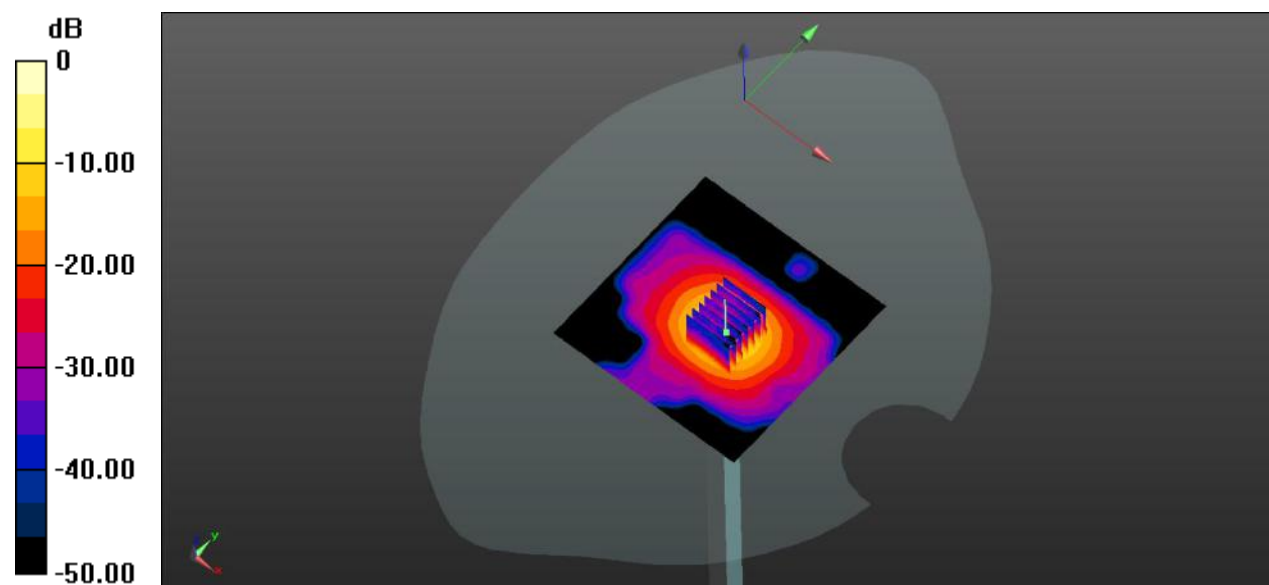
CW5600 100mW/Zoom Scan (7x7x15)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 34.54 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 38.58 W/kg

SAR(1 g) = 8.29 W/kg; SAR(10 g) = 2.38 W/kg

Maximum value of SAR (measured) = 21.6 W/kg



0 dB = 21.6 W/kg

System Performance Check Data (5750MHz Head)

Date: 2022.03.23

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

Medium parameters used: $f = 5750$ MHz; $\sigma = 5.157$ S/m; $\epsilon_r = 35.724$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.9 Liquid Temperature: 21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(4.9, 4.9, 4.9); Calibrated: 2021.12.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 5750 100mW/Area Scan (81x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 8.43 W/kg

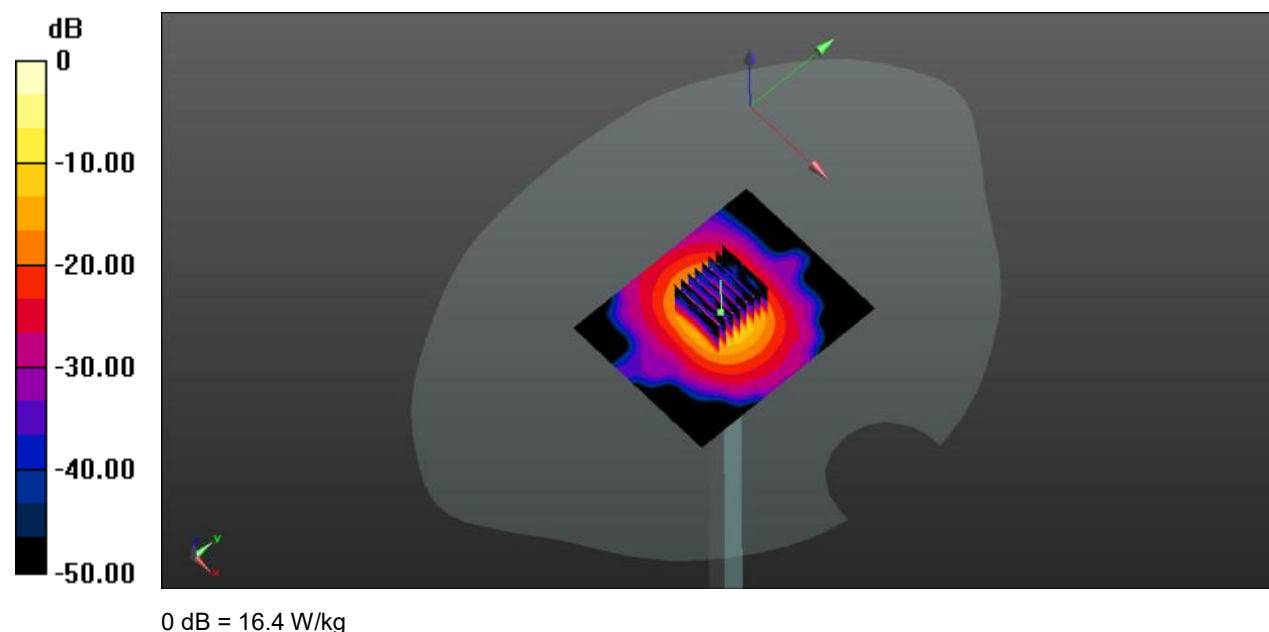
CW 5750 100mW/Zoom Scan (8x8x15)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 36.21 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 35.2 W/kg

SAR(1 g) = 7.54 W/kg; SAR(10 g) = 2.11 W/kg

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



System Performance Check Data (1750MHz Head)

Date: 2022.03.31

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

Medium parameters used (interpolated): $f = 1750$ MHz; $\sigma = 1.383$ S/m; $\epsilon_r = 40.189$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.1 Liquid Temperature: 21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.51, 8.51, 8.51); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 4.35 W/kg

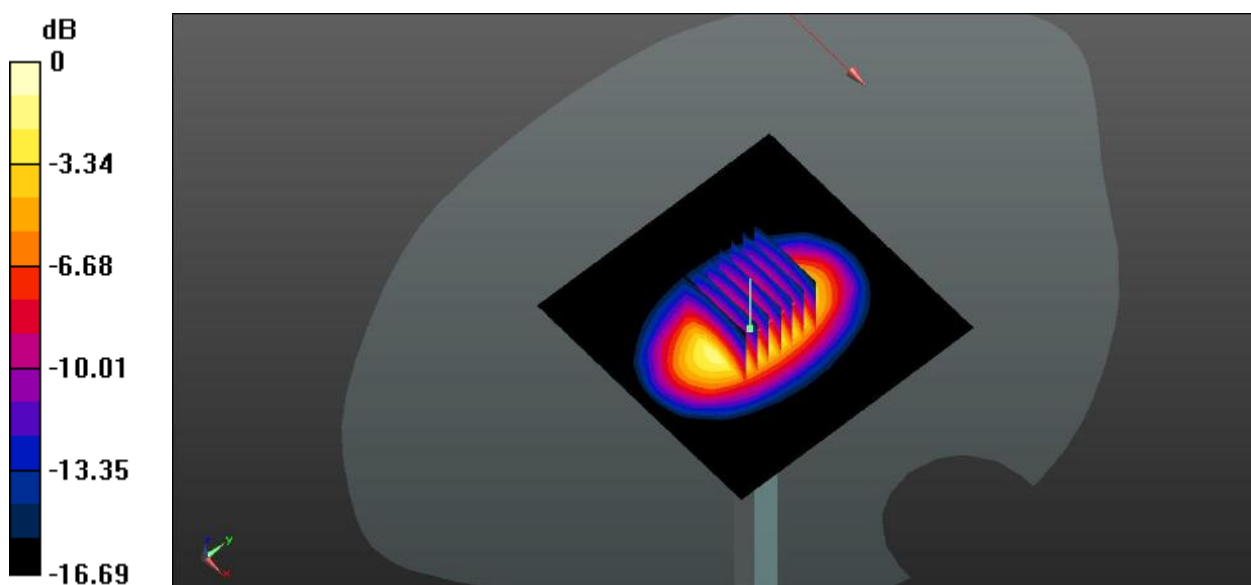
CW1750 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 54.89 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 7.06 W/kg

SAR(1 g) = 3.92 W/kg; SAR(10 g) = 2.06 W/kg

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



0 dB = 4.18 W/kg

System Performance Check Data (1900MHz Head)

Date: 2022.03.31

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.401$ S/m; $\epsilon_r = 39.744$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.8 Liquid Temperature: 21.9

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.13, 8.13, 8.13,); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 4.63 W/kg

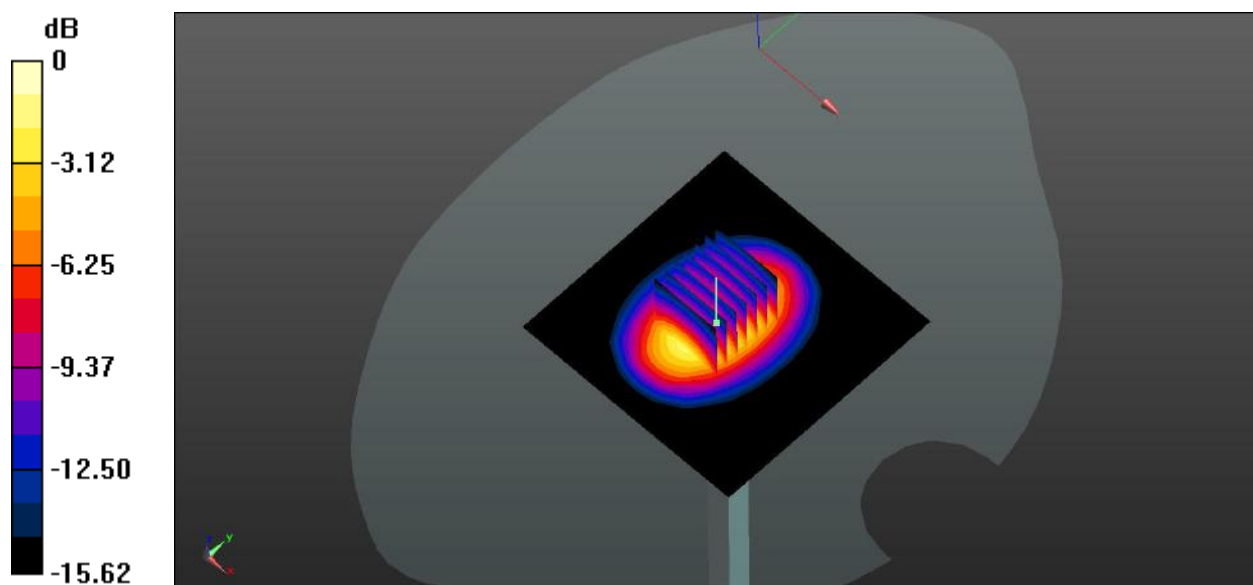
CW 1900 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 55.15 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 7.36 W/kg

SAR(1 g) = 4.16 W/kg; SAR(10 g) = 2.07 W/kg

Maximum value of SAR (measured) = 4.67 W/kg



0 dB = 4.67 W/kg

System Performance Check Data (5600MHz Head)

Date: 2022.03.31

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

Medium parameters used: $f = 5600$ MHz; $\sigma = 5.059$ S/m; $\epsilon_r = 35.222$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.2 Liquid Temperature: 21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(4.81, 4.81, 4.81); Calibrated: 2021.12.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW5600 100mW/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 8.36 W/kg

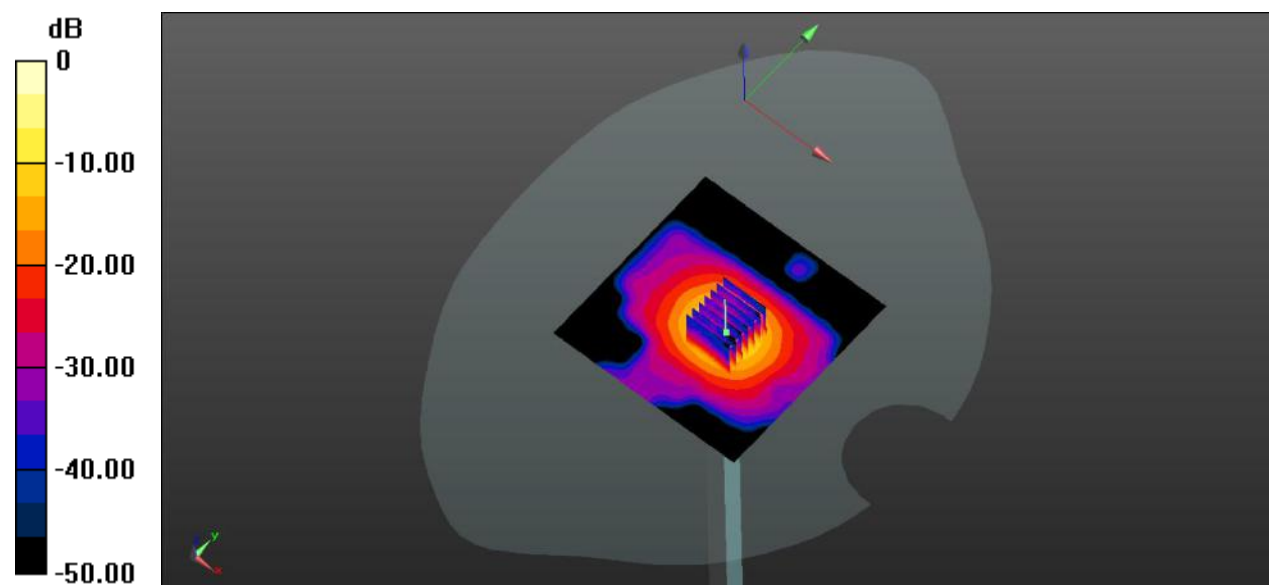
CW5600 100mW/Zoom Scan (7x7x15)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 34.54 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 38.38 W/kg

SAR(1 g) = 8.26 W/kg; SAR(10 g) = 2.35 W/kg

Maximum value of SAR (measured) = 21.2 W/kg



0 dB = 21.2 W/kg

ANNEX C TEST DATA

Meas.1 Right Head with Cheek on High Channel in GPRS850 2Slots mode with Antenna 1

Date: 2022.03.08

Communication System Band: GPRS 850; Frequency: 848.8 MHz; Duty Cycle: 1:4.1

Medium parameters used (interpolated): $f = 848.8$ MHz; $\sigma = 0.915$ S/m; $\epsilon_r = 41.447$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature: 22.3 Liquid Temperature: 21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.72, 9.72, 9.72); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch251/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.925 W/kg

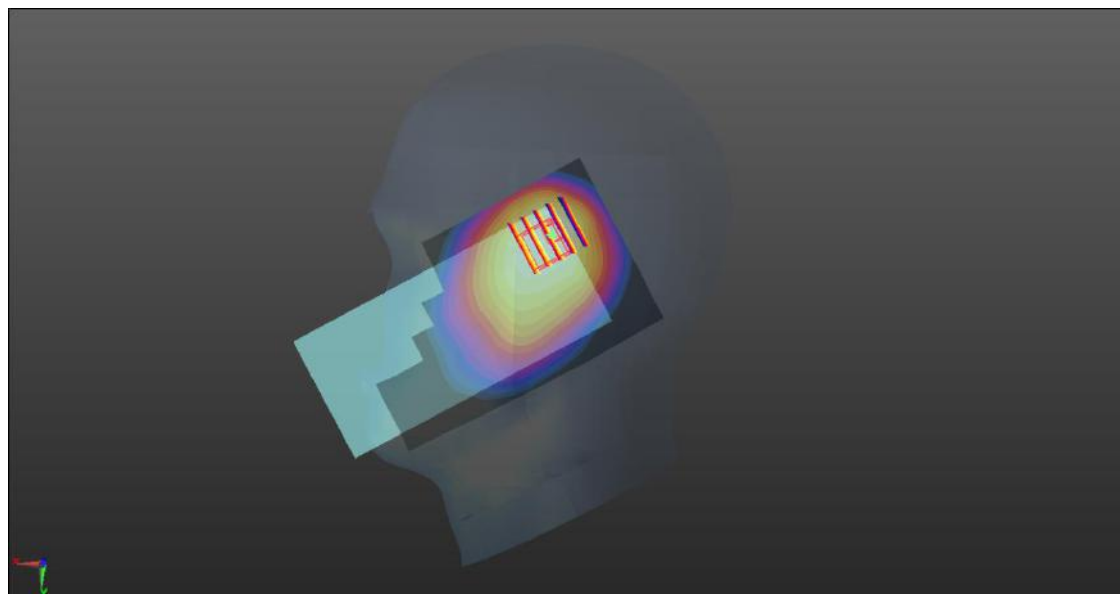
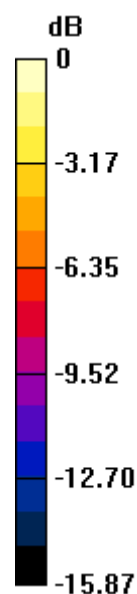
Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.64 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.32 W/kg

SAR(1 g) = 0.794 W/kg; SAR(10 g) = 0.492 W/kg

Maximum value of SAR (measured) = 0.919 W/kg



0 dB = 0.919 W/kg

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

Date: 2022.03.08

Communication System Band: GPRS 850; Frequency: 824.2 MHz; Duty Cycle: 1:4.1

Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.886$ S/m; $\epsilon_r = 42.104$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.72, 9.72, 9.72); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch128/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.117 W/kg

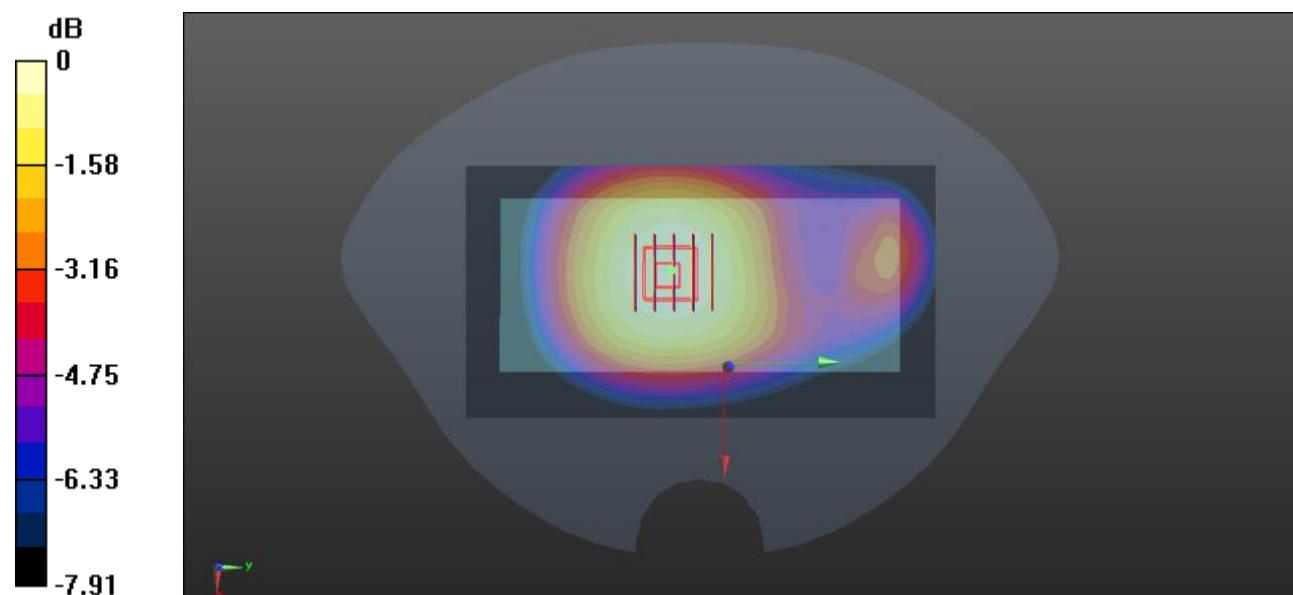
Ch128/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.81 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.143 W/kg

SAR(1 g) = 0.112 W/kg; SAR(10 g) = 0.085 W/kg

Maximum value of SAR (measured) = 0.117 W/kg



0 dB = 0.117 W/kg

Meas.3 Body Plane with Top Edge 10mm on Middle Channel in GPRS850 2Slots mode with Antenna1

Date: 2022.03.08

Communication System Band: GPRS 850; Frequency: 836.6 MHz; Duty Cycle: 1:4.1

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.898$ S/m; $\epsilon_r = 41.809$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature: 22.3 Liquid Temperature: 21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.72, 9.72, 9.72); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch190/Area Scan (51x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.160 W/kg

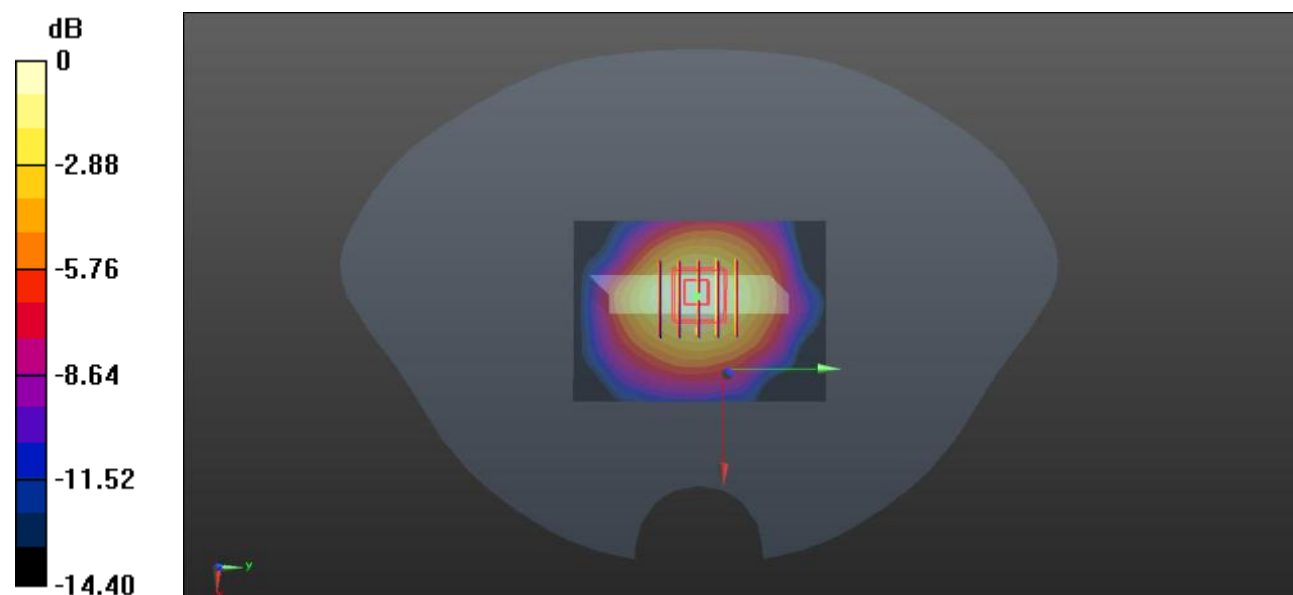
Ch190/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.77 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.223 W/kg

SAR(1 g) = 0.149 W/kg; SAR(10 g) = 0.094 W/kg

Maximum value of SAR (measured) = 0.161 W/kg



0 dB = 0.161 W/kg

Meas.4 Right Head with Tilt on High Channel in GPRS1900 2Slots mode with Antenna 1

Date: 2022.03.24

Communication System Band: GPRS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:4.1

Medium parameters used (interpolated): $f = 1909.8$ MHz; $\sigma = 1.367$ S/m; $\epsilon_r = 39.71$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature:22.3 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.13, 8.13, 8.13,); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch810/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.37 W/kg

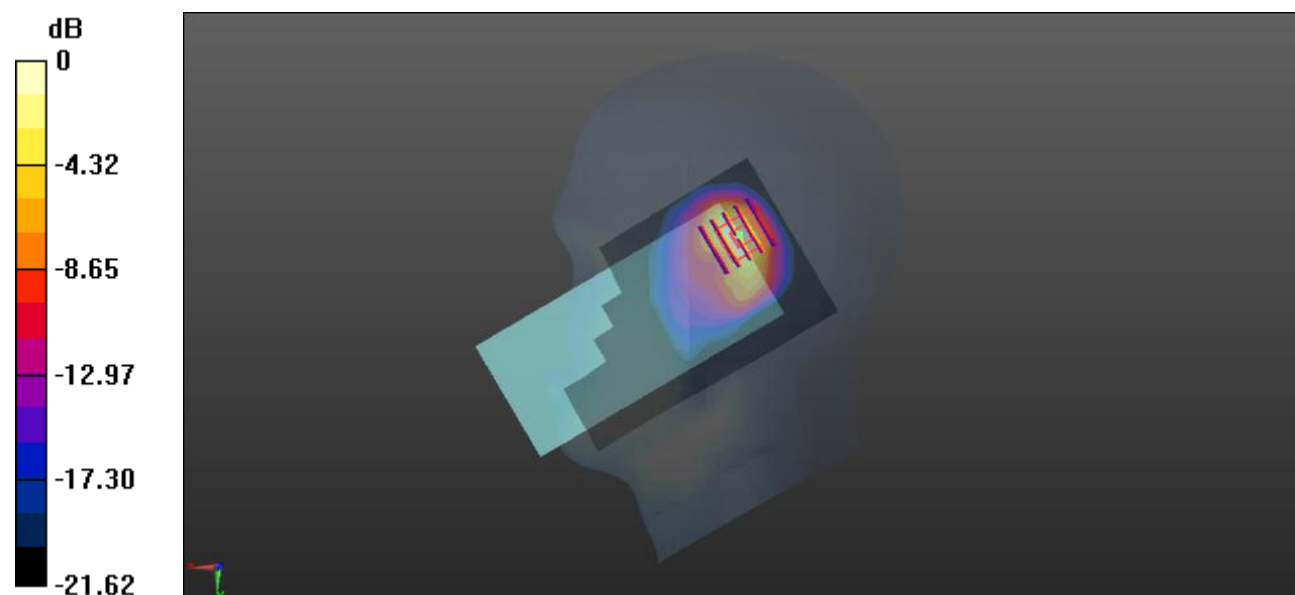
Ch810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.29 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 2.38 W/kg

SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.497 W/kg

Maximum value of SAR (measured) = 1.35 W/kg



0 dB = 1.35 W/kg

Meas.5 Body Plane with Back Side 15mm on High Channel in GPRS1900 2Slots mode with Antenna0

Date: 2022.03.24

Communication System Band: GPRS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:4.1

Medium parameters used (interpolated): $f = 1909.8$ MHz; $\sigma = 1.367$ S/m; $\epsilon_r = 39.71$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.13, 8.13, 8.13,); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch810/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.221 W/kg

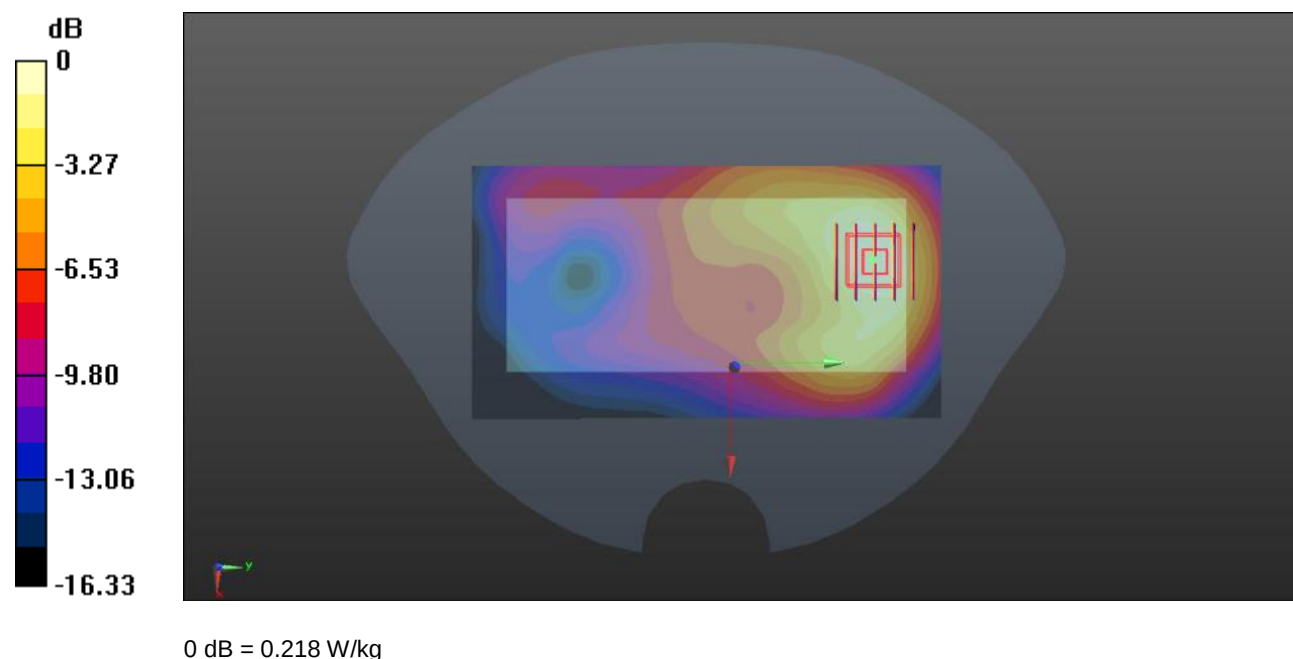
Ch810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.364 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.312 W/kg

SAR(1 g) = 0.202 W/kg; SAR(10 g) = 0.125 W/kg

Maximum value of SAR (measured) = 0.218 W/kg



Meas.6 Body Plane with Top Edge 10mm on High Channel in GPRS1900 2Slots mode with Antenna1

Date: 2022.03.24

Communication System Band: GPRS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:4.1

Medium parameters used (interpolated): $f = 1909.8$ MHz; $\sigma = 1.367$ S/m; $\epsilon_r = 39.71$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3 Liquid Temperature: 21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.13, 8.13, 8.13,); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch810/Area Scan (51x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

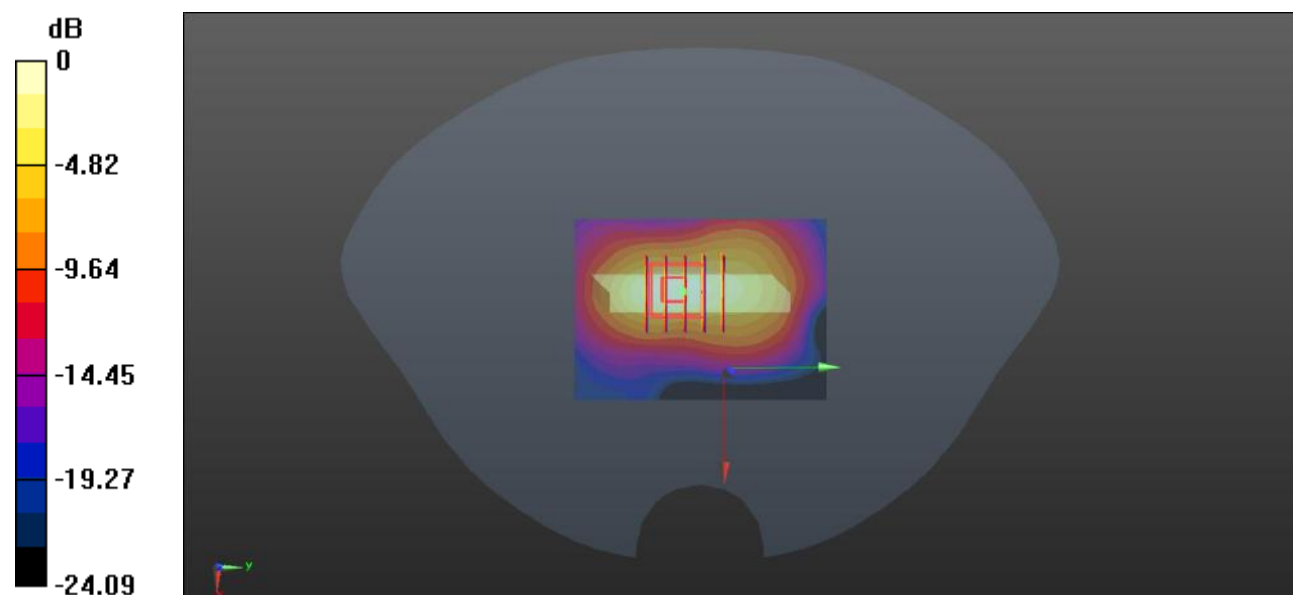
Ch810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.93 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.783 W/kg

SAR(1 g) = 0.426 W/kg; SAR(10 g) = 0.211 W/kg

Maximum value of SAR (measured) = 0.485 W/kg



0 dB = 0.485 W/kg

Meas.7 Right Head with Tilt on High Channel in WCDMA Band2 mode with Antenna 1

Date: 2022.03.12

Communication System Band: Band: II; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1907.6$ MHz; $\sigma = 1.398$ S/m; $\epsilon_r = 39.72$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature: 22.6 Liquid Temperature: 21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.13, 8.13, 8.13,); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch9538/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

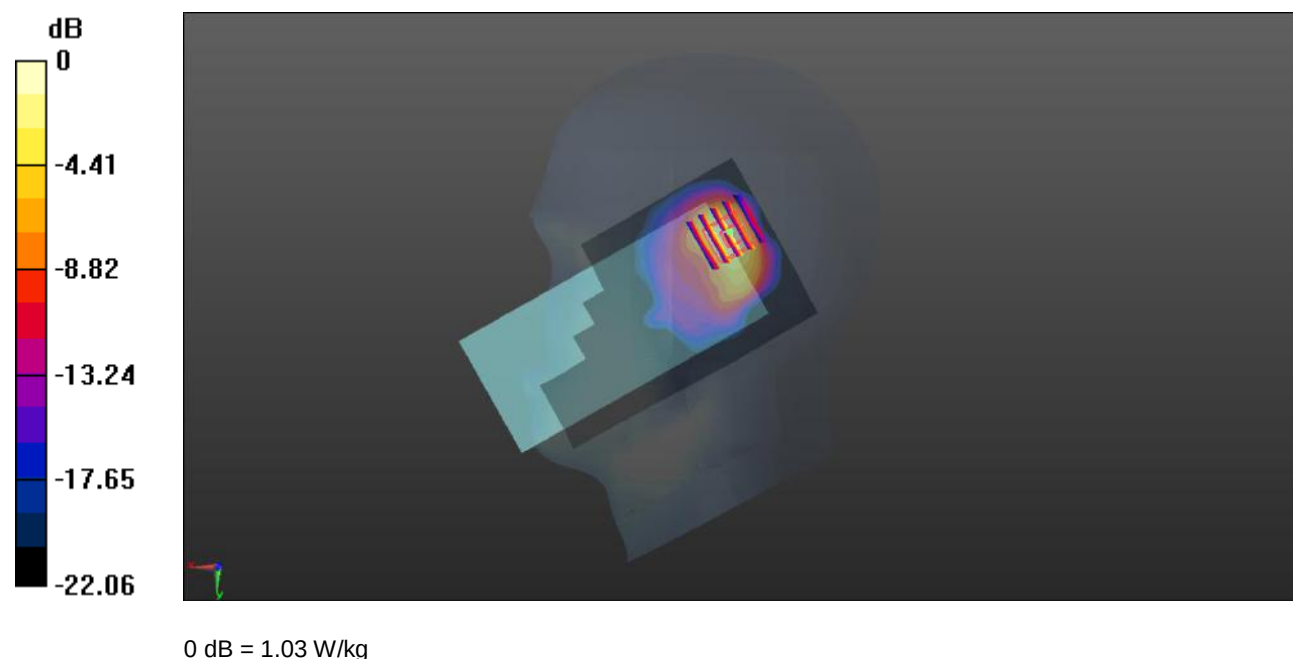
Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.01 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.80 W/kg

SAR(1 g) = 0.876 W/kg; SAR(10 g) = 0.398 W/kg

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



Meas.8 Body Plane with Back Side 15mm on High Channel in WCDMA Band2 mode with Antenna0

Date: 2022.03.12

Communication System Band: Band: II; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1907.6$ MHz; $\sigma = 1.398$ S/m; $\epsilon_r = 39.72$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.6 Liquid Temperature: 21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.13, 8.13, 8.13,); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch9538/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.465 W/kg

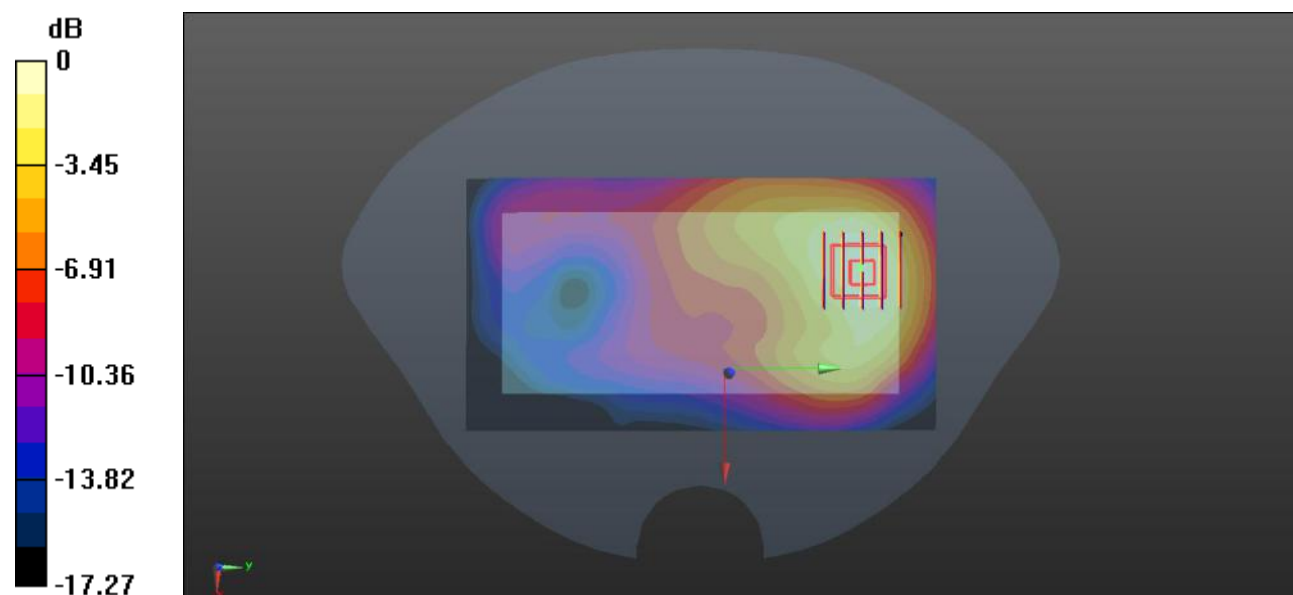
Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.388 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.651 W/kg

SAR(1 g) = 0.421 W/kg; SAR(10 g) = 0.259 W/kg

Maximum value of SAR (measured) = 0.456 W/kg



0 dB = 0.456 W/kg

Meas.9 Body Plane with Bottom Edge 10mm on High Channel in WCDMA Band2 mode with Antenna0

Date: 2022.03.12

Communication System Band: Band: II; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1907.6$ MHz; $\sigma = 1.398$ S/m; $\epsilon_r = 39.72$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.13, 8.13, 8.13,); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch9538/Area Scan (51x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.842 W/kg

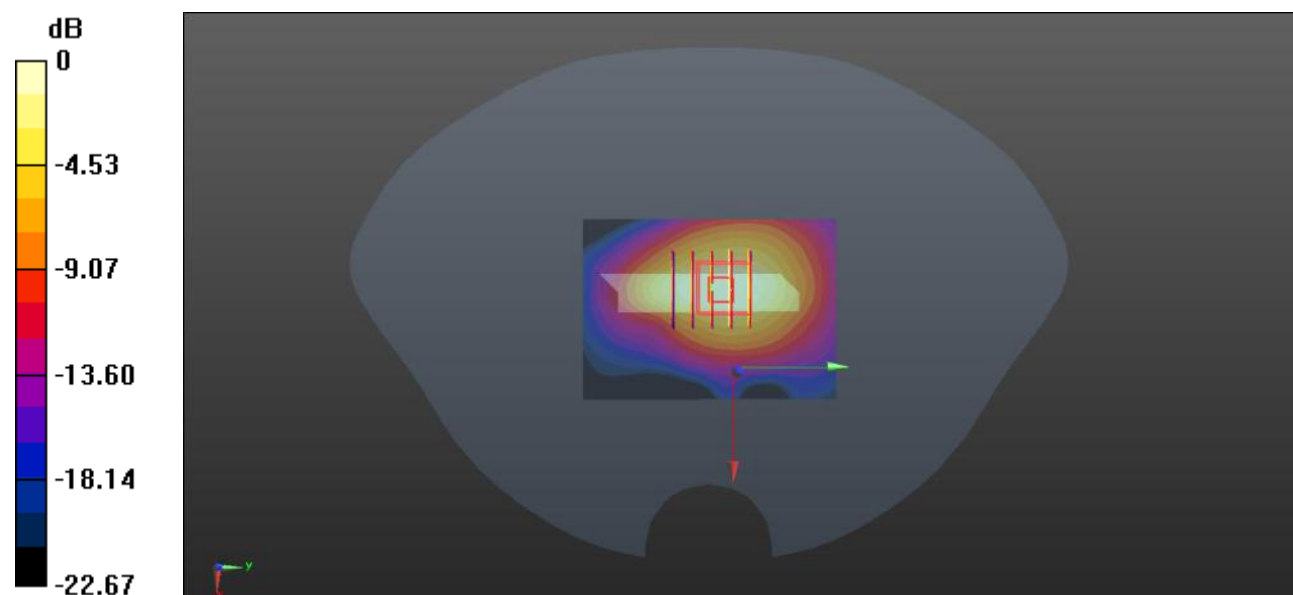
Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.55 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.19 W/kg

SAR(1 g) = 0.662 W/kg; SAR(10 g) = 0.374 W/kg

Maximum value of SAR (measured) = 0.787 W/kg



0 dB = 0.787 W/kg

Meas.10 Right Head with Tilt on Middle Channel in WCDMA Band4 mode with Antenna 1

Date: 2022.03.11

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

Medium parameters used (interpolated): $f = 1732.4$ MHz; $\sigma = 1.365$ S/m; $\epsilon_r = 40.485$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature:22.2 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.51, 8.51, 8.51); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 1.30 W/kg

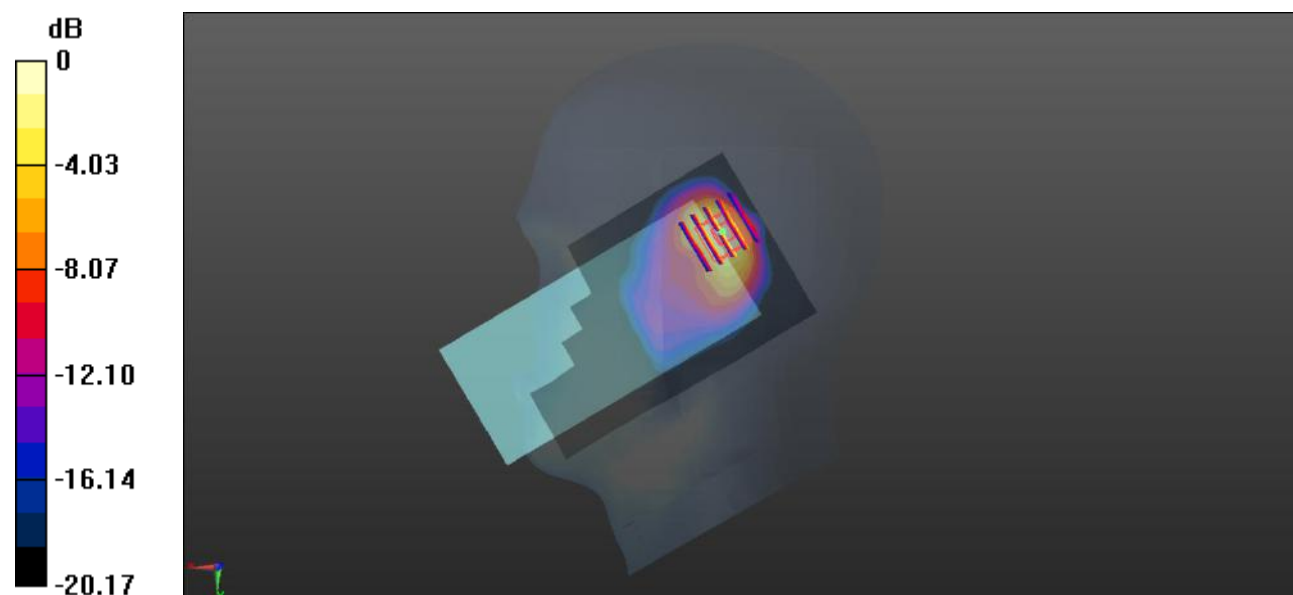
Ch1412/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.44 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 2.11 W/kg

SAR(1 g) = 1.04 W/kg; SAR(10 g) = 0.484 W/kg

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



Meas.11 Body Plane with Back Side 15mm on Middle Channel in WCDMA Band4 mode with Antenna0

Date: 2022.03.11

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

Medium parameters used (interpolated): $f = 1732.4$ MHz; $\sigma = 1.365$ S/m; $\epsilon_r = 40.485$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.2 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.51, 8.51, 8.51); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.356 W/kg

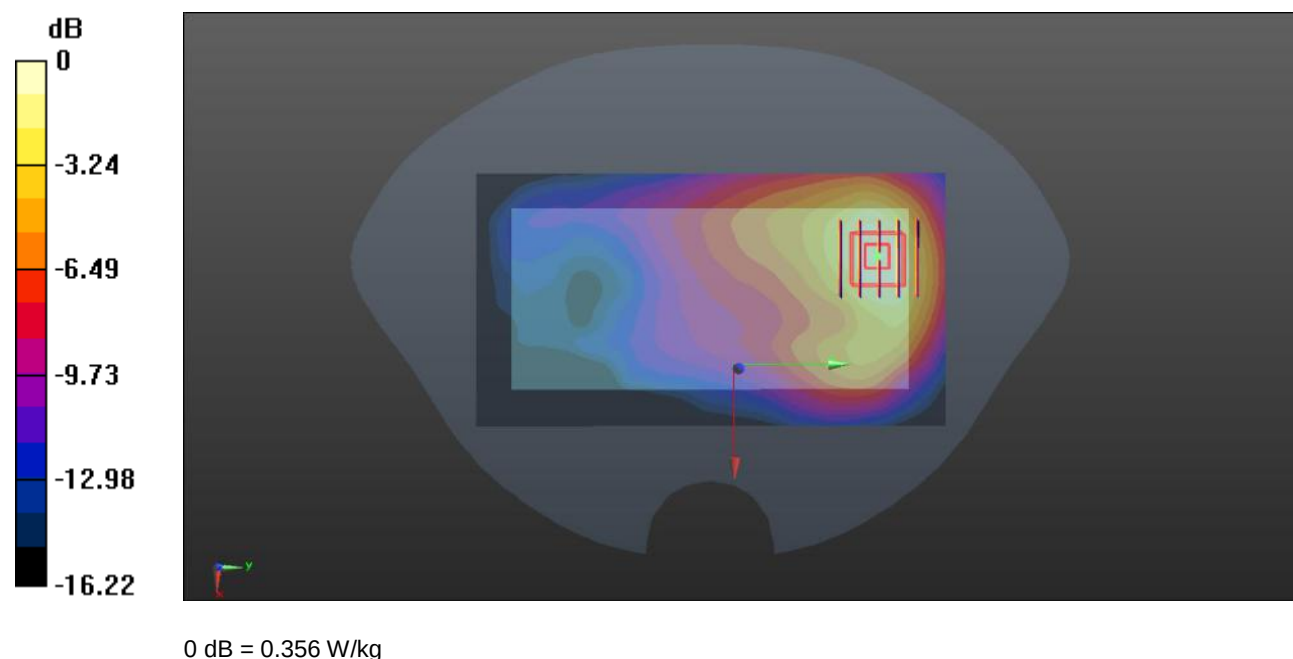
Ch1412/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.028 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.495 W/kg

SAR(1 g) = 0.325 W/kg; SAR(10 g) = 0.198 W/kg

Maximum value of SAR (measured) = 0.356 W/kg



Meas.12 Body Plane with Bottom Edge 10mm on Middle Channel in WCDMA Band4 mode with Antenna0

Date: 2022.03.11

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

Medium parameters used (interpolated): $f = 1732.4$ MHz; $\sigma = 1.365$ S/m; $\epsilon_r = 40.485$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.2 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.51, 8.51, 8.51); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch1412/Area Scan (51x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.664 W/kg

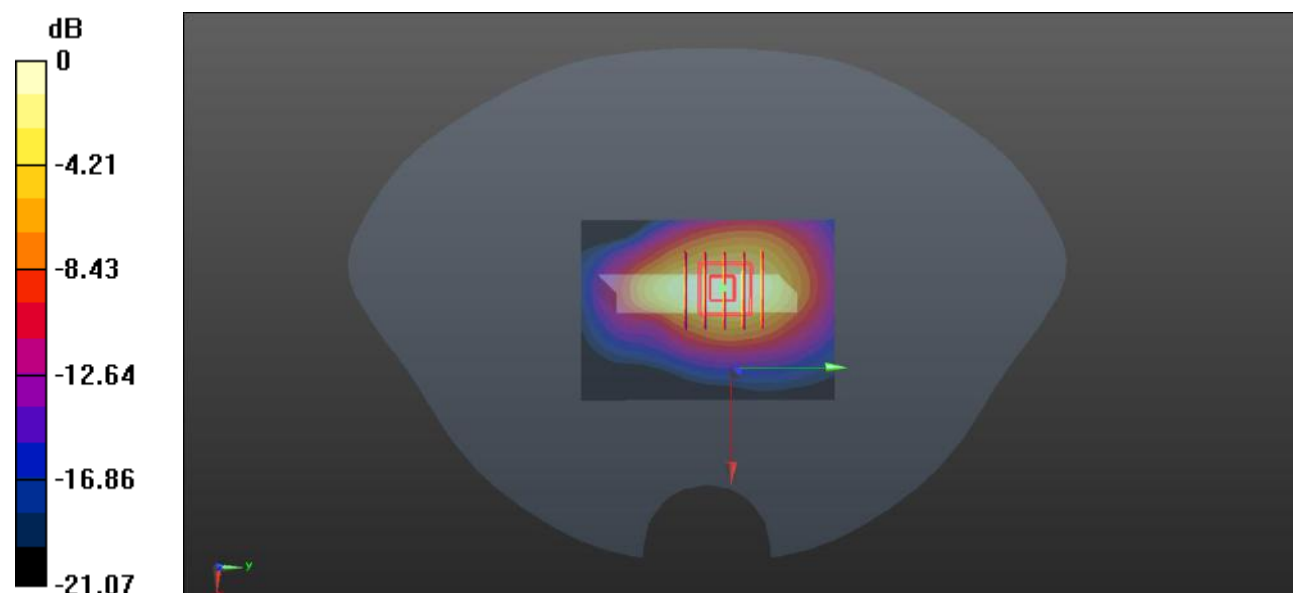
Ch1412/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.41 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.967 W/kg

SAR(1 g) = 0.590 W/kg; SAR(10 g) = 0.331 W/kg

Maximum value of SAR (measured) = 0.659 W/kg



0 dB = 0.659 W/kg

Meas.13 Right Head with Cheek on Low Channel in WCDMA Band5 mode with Antenna 1

Date: 2022.03.08

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

Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 0.888$ S/m; $\epsilon_r = 42.06$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature:22.3 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.72, 9.72, 9.72); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.792 W/kg

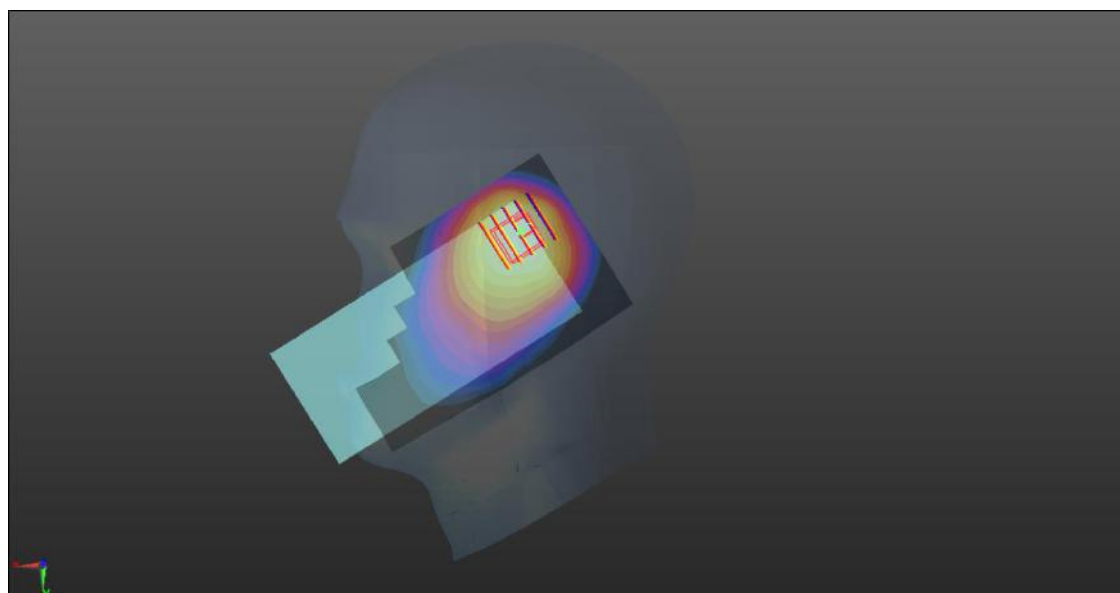
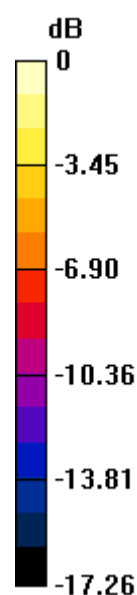
Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.81 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.29 W/kg

SAR(1 g) = 0.639 W/kg; SAR(10 g) = 0.384 W/kg

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



0 dB = 0.651 W/kg

Meas.14 Body Plane with Back Side 15mm on Low Channel in WCDMA Band5 mode with Antenna1

Date: 2022.03.08

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

Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 0.888$ S/m; $\epsilon_r = 42.06$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.72, 9.72, 9.72); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.124 W/kg

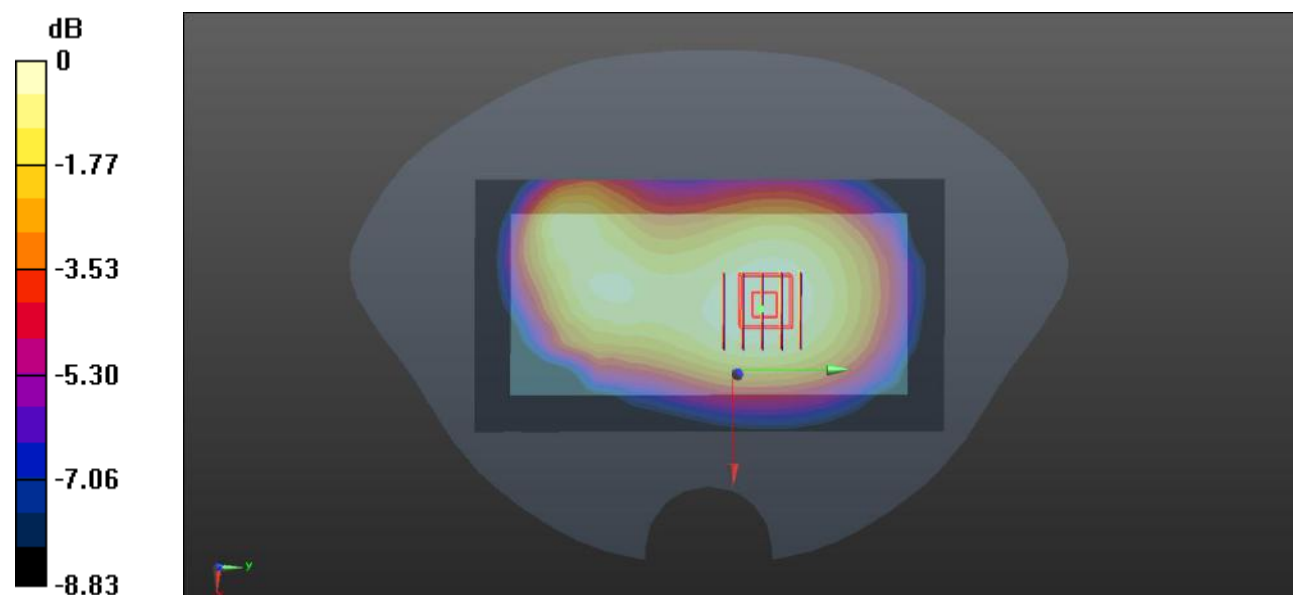
Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.32 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.148 W/kg

SAR(1 g) = 0.114 W/kg; SAR(10 g) = 0.087 W/kg

Maximum value of SAR (measured) = 0.124 W/kg



0 dB = 0.124 W/kg

Meas.15 Body Plane with Top Edge 10mm on Low Channel in WCDMA Band5 mode with Antenna1

Date: 2022.03.08

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

Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 0.888$ S/m; $\epsilon_r = 42.06$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.72, 9.72, 9.72); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch4132/Area Scan (51x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.200 W/kg

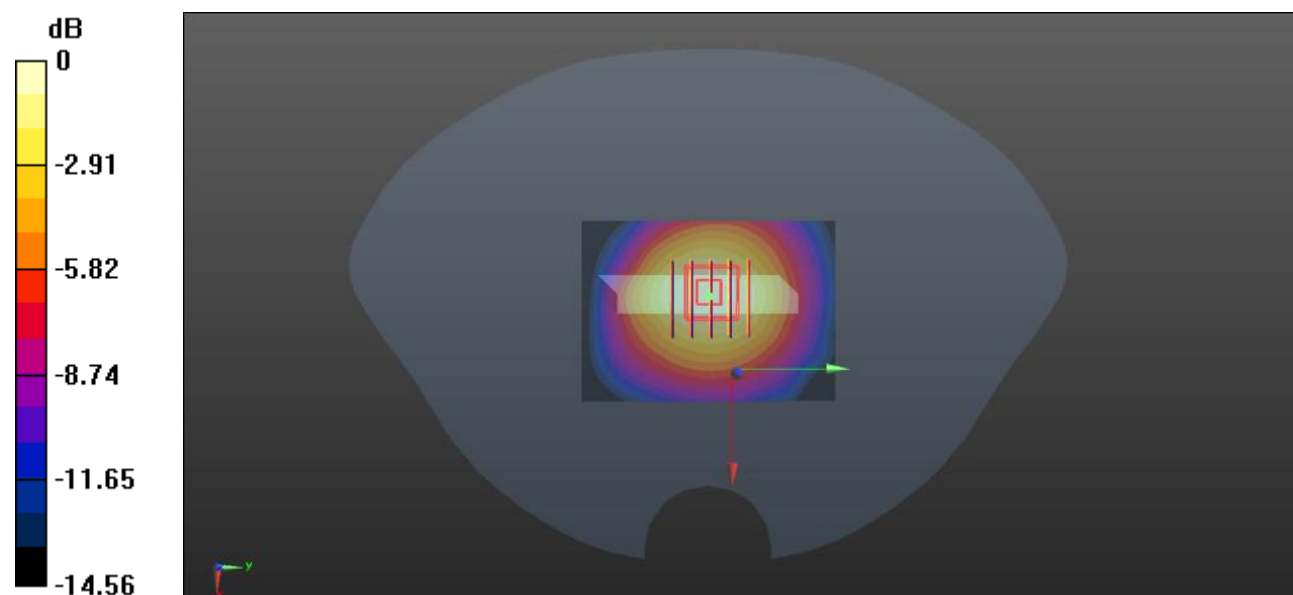
Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.27 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.270 W/kg

SAR(1 g) = 0.181 W/kg; SAR(10 g) = 0.114 W/kg

Maximum value of SAR (measured) = 0.195 W/kg



0 dB = 0.195 W/kg

Meas.16 Right Head with Tilt on Middle Channel in LTE Band2 mode with Antenna1

Date: 2022.03.12

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

Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.385$ S/m; $\epsilon_r = 40.102$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature:22.6 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.13, 8.13, 8.13,); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CH18900/Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.915 W/kg

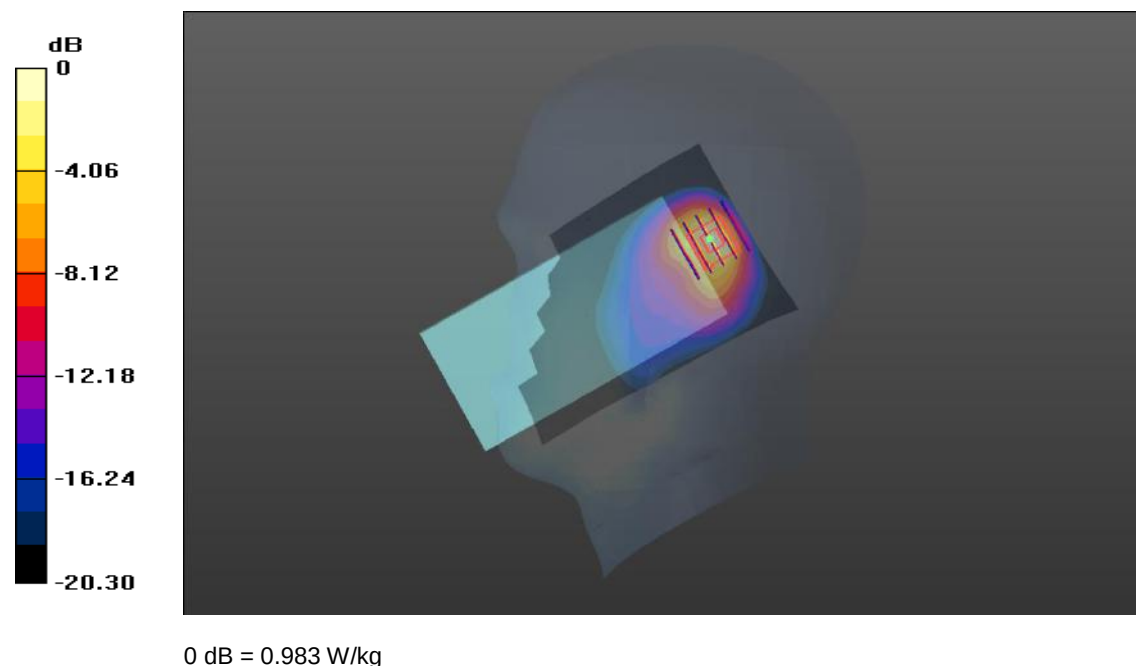
CH18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.40 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.73 W/kg

SAR(1 g) = 0.801 W/kg; SAR(10 g) = 0.362 W/kg

Maximum value of SAR (measured) = 0.983 W/kg



Meas.17 Body Plane with Back Side 15mm on High Channel in LTE Band2 mode with Antenna1

Date: 2022.03.12

Communication System Band: Band 2; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.395$ S/m; $\epsilon_r = 39.841$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.13, 8.13, 8.13,); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch19100/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.314 W/kg

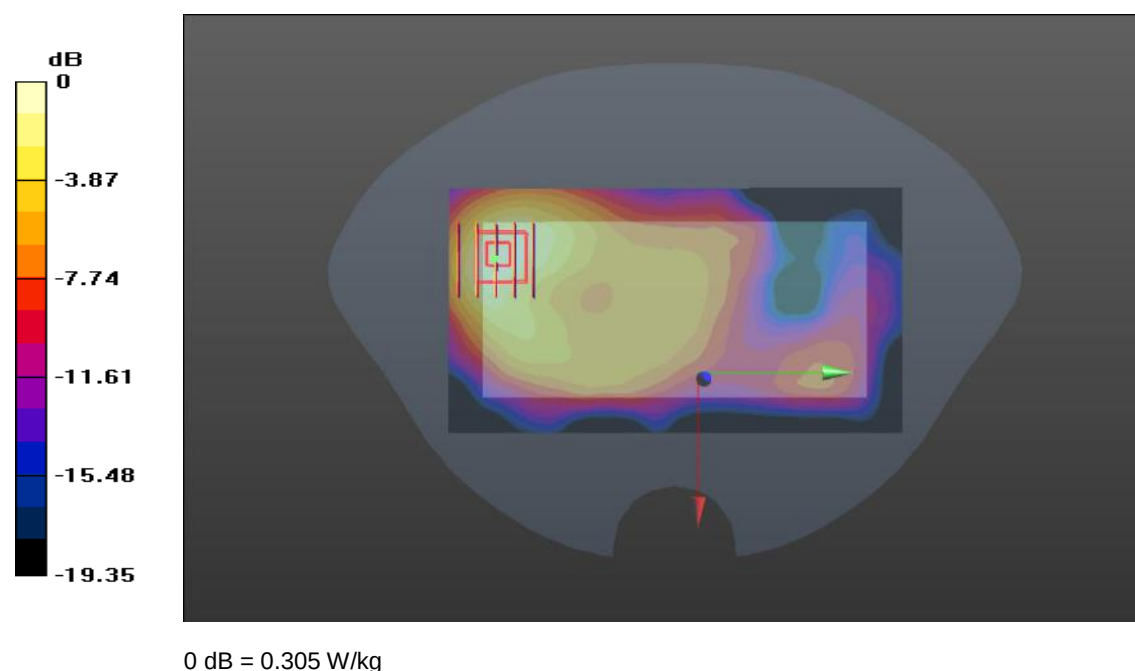
Ch19100/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.356 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.470 W/kg

SAR(1 g) = 0.277 W/kg; SAR(10 g) = 0.157 W/kg

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



Meas.18 Body Plane with Bottom Side 10mm on Middle Channel in LTE Band2 mode with Antenna0

Date: 2022.03.12

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

Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.385$ S/m; $\epsilon_r = 40.102$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.6 Liquid Temperature: 21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.13, 8.13, 8.13,); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch18900/Area Scan (51x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

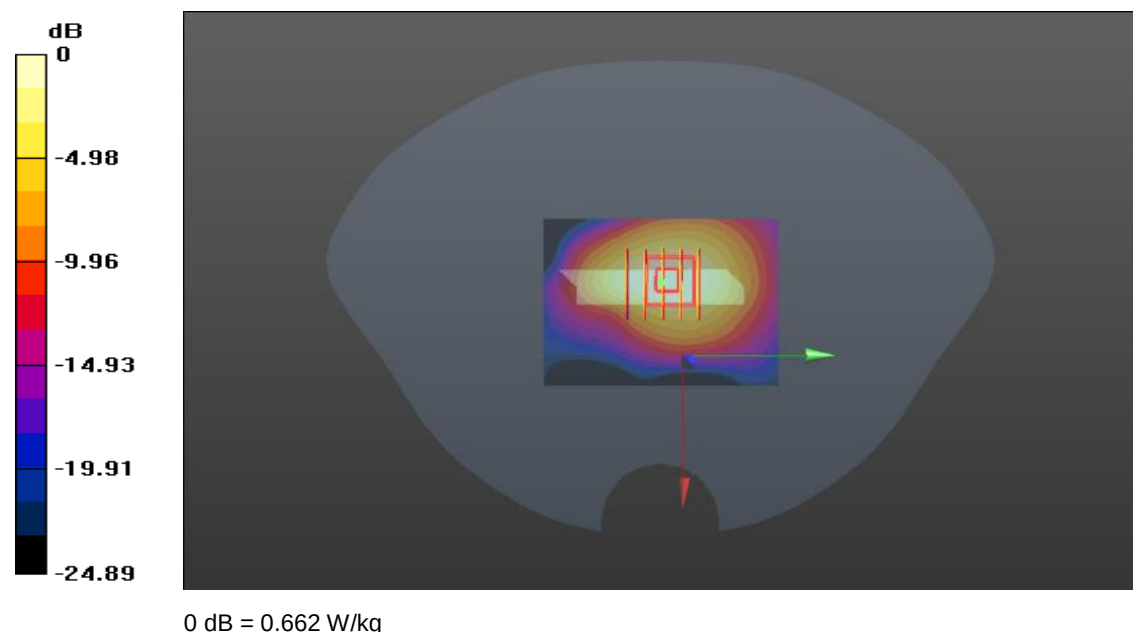
Ch18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.64 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.995 W/kg

SAR(1 g) = 0.605 W/kg; SAR(10 g) = 0.343 W/kg

Maximum value of SAR (measured) = 0.662 W/kg



Meas.19 Right Head with Tilt on High Channel in LTE Band4 mode with Antenna1

Date: 2022.03.11

Communication System Band: Band 4; Frequency: 1745 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1745$ MHz; $\sigma = 1.376$ S/m; $\epsilon_r = 40.333$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature:22.2 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.51, 8.51, 8.51); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CH20300/Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

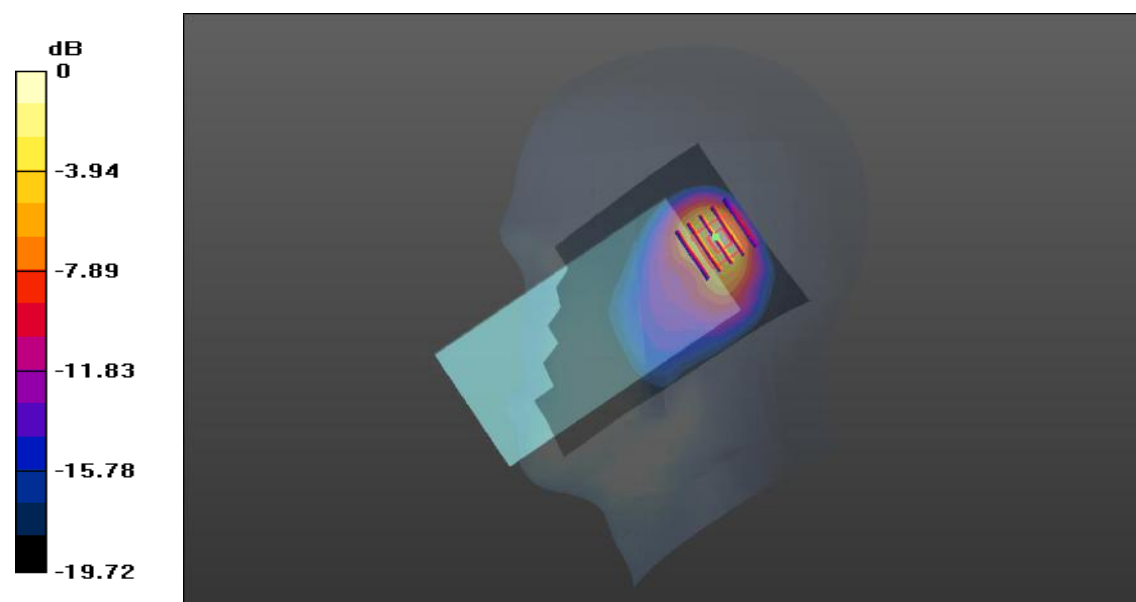
CH20300/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.91 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.98 W/kg

SAR(1 g) = 0.956 W/kg; SAR(10 g) = 0.438 W/kg

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



Meas.20 Body Plane with Back Side 15mm on High Channel in LTE Band4 mode with Antenna0

Date: 2022.03.11

Communication System Band: Band 4; Frequency: 1745 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1745$ MHz; $\sigma = 1.376$ S/m; $\epsilon_r = 40.333$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.2 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.51, 8.51, 8.51); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch20300/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.277 W/kg

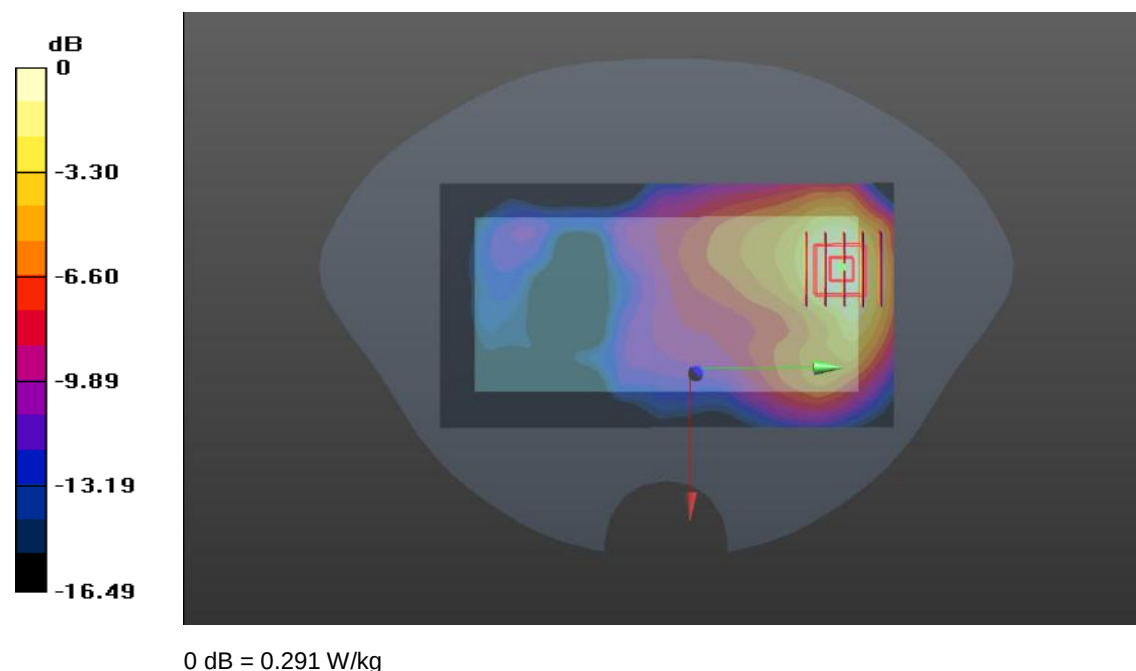
Ch20300/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.105 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.407 W/kg

SAR(1 g) = 0.265 W/kg; SAR(10 g) = 0.161 W/kg

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



Meas.21 Body Plane with Bottom Side 10mm on Low Channel in LTE Band4 mode with Antenna0

Date: 2022.03.11

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

Medium parameters used (interpolated): $f = 1720$ MHz; $\sigma = 1.355$ S/m; $\epsilon_r = 40.649$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.2 Liquid Temperature: 21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.51, 8.51, 8.51); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch20050/Area Scan (51x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

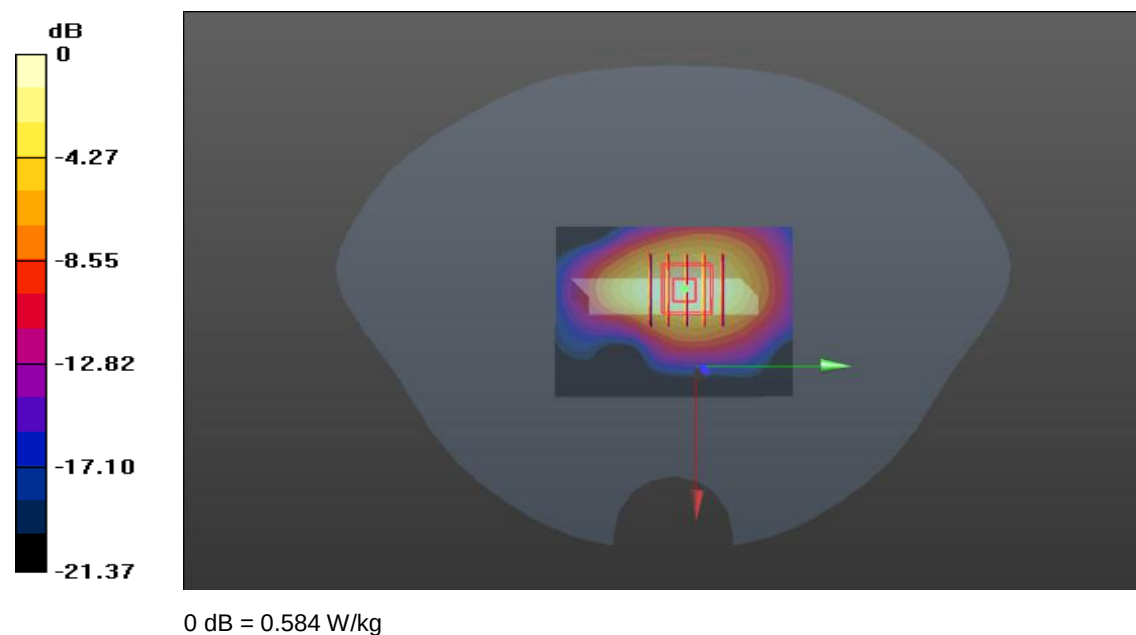
Ch20050/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.10 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.862 W/kg

SAR(1 g) = 0.527 W/kg; SAR(10 g) = 0.298 W/kg

Maximum value of SAR (measured) = 0.584 W/kg



Meas.22 Right Head with Cheek on Middle Channel in LTE Band5 mode with Antenna1

Date: 2022.03.09

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

Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.902$ S/m; $\epsilon_r = 41.804$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature:22.1 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.72, 9.72, 9.72); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CH20525/Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

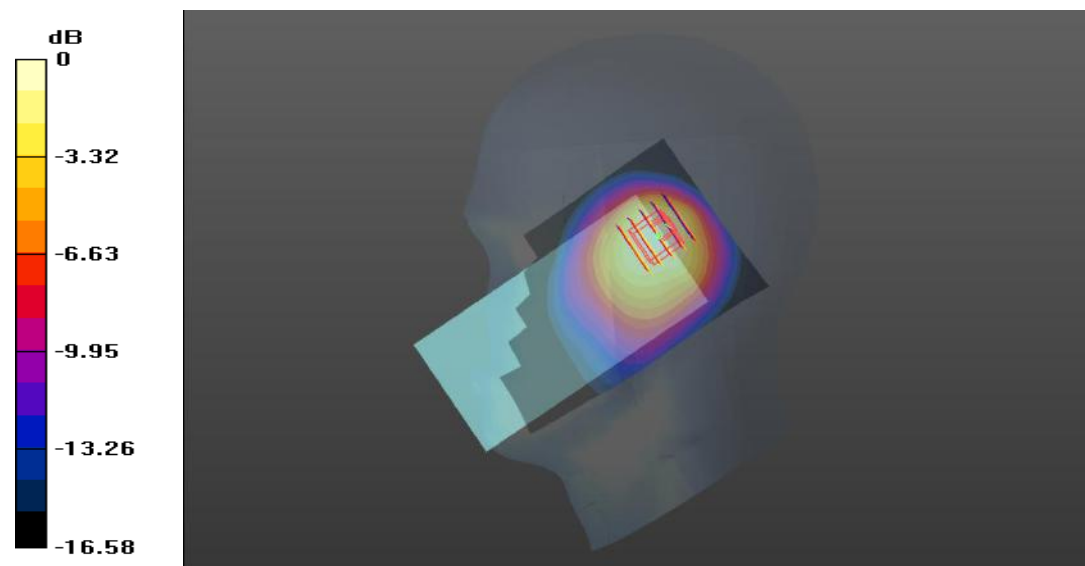
CH20525/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.23 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.986 W/kg

SAR(1 g) = 0.515 W/kg; SAR(10 g) = 0.316 W/kg

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



0 dB = 0.527 W/kg

Meas.23 Body Plane with Back Side 15mm on Middle Channel in LTE Band5 mode with Antenna0

Date: 2022.03.09

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

Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.902$ S/m; $\epsilon_r = 41.804$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.1 Liquid Temperature: 21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.72, 9.72, 9.72); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch20525/Area Scan (71x131x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.124 W/kg

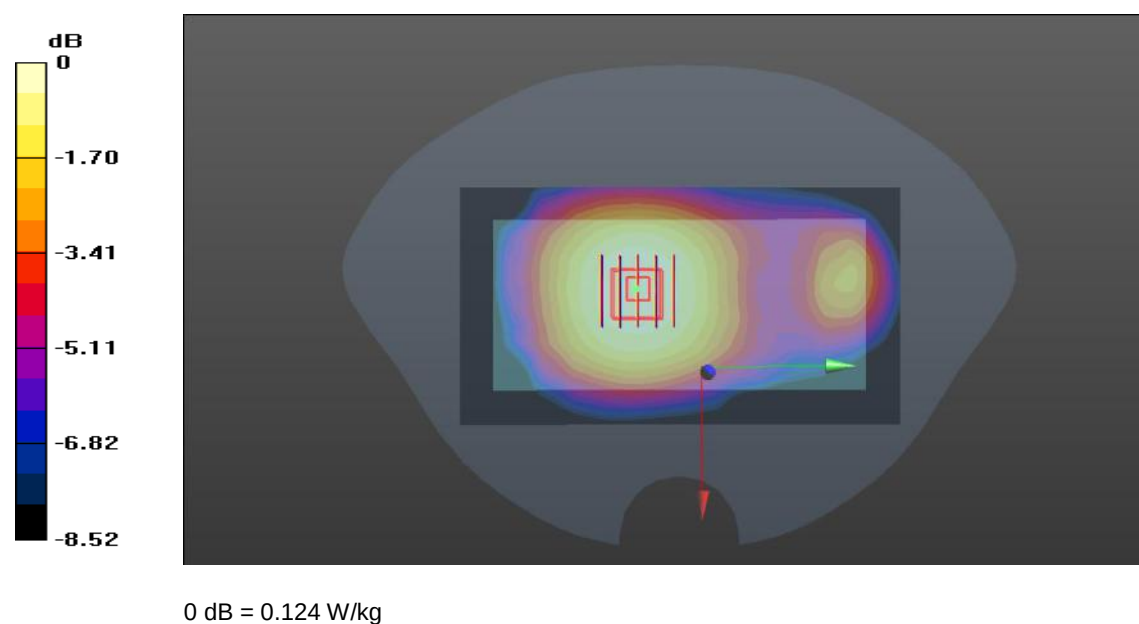
Ch20525/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 10.77 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.148 W/kg

SAR(1 g) = 0.118 W/kg; SAR(10 g) = 0.090 W/kg

Maximum value of SAR (measured) = 0.124 W/kg



Meas.24 Body Plane with Top Edge 10mm on Middle Channel in LTE Band5 mode with Antenna1

Date: 2022.03.09

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

Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.902$ S/m; $\epsilon_r = 41.804$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.1 Liquid Temperature: 21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.72, 9.72, 9.72); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch20525/Area Scan (51x71x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.145 W/kg

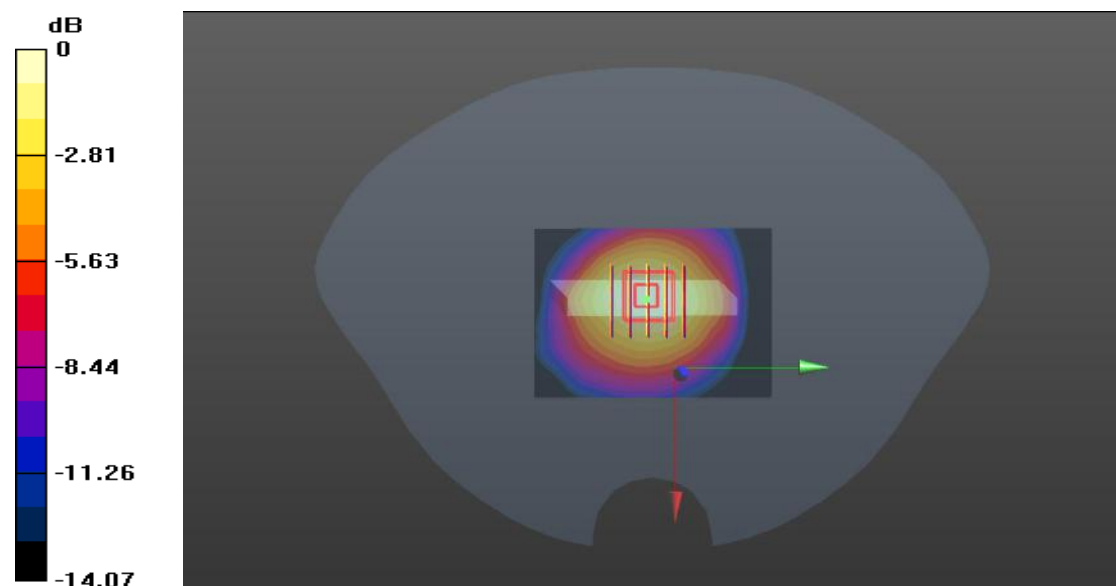
Ch20525/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 12.21 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.200 W/kg

SAR(1 g) = 0.133 W/kg; SAR(10 g) = 0.085 W/kg

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



0 dB = 0.144 W/kg

Meas.25 Right Head with Tilt on High Channel in LTE Band7 mode with Antenna1

Date: 2022.03.13

Communication System Band: Band 7; Frequency: 2560 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2560$ MHz; $\sigma = 1.926$ S/m; $\epsilon_r = 38.724$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature: 22.8 Liquid Temperature: 21.7

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.4, 7.4, 7.4); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch21350/Area Scan (81x161x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.801 W/kg

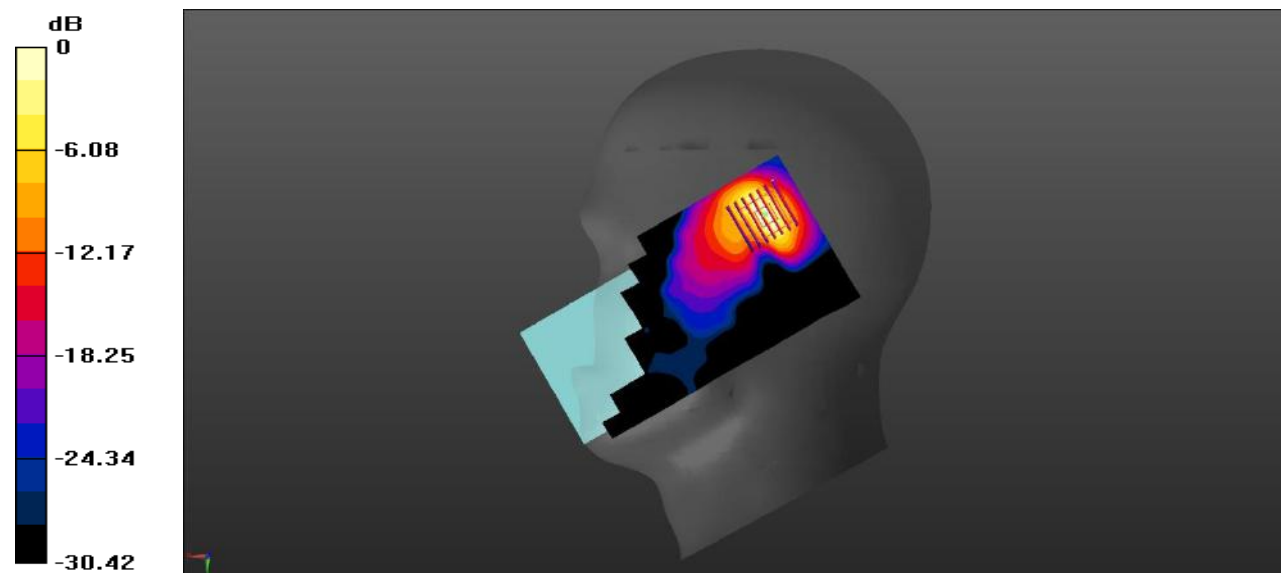
Ch21350/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 6.792 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.68 W/kg

SAR(1 g) = 0.679 W/kg; SAR(10 g) = 0.264 W/kg

Maximum value of SAR (measured) = 0.855 W/kg



0 dB = 0.855 W/kg

Meas.26 Body Plane with Back Side 15mm on Low Channel in LTE Band7 mode with Antenna0

Date: 2022.03.13

Communication System Band: Band 7; Frequency: 2510 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2510$ MHz; $\sigma = 1.867$ S/m; $\epsilon_r = 39.102$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.8 Liquid Temperature: 21.7

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.63, 7.63, 7.63); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch20850/Area Scan (81x161x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

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

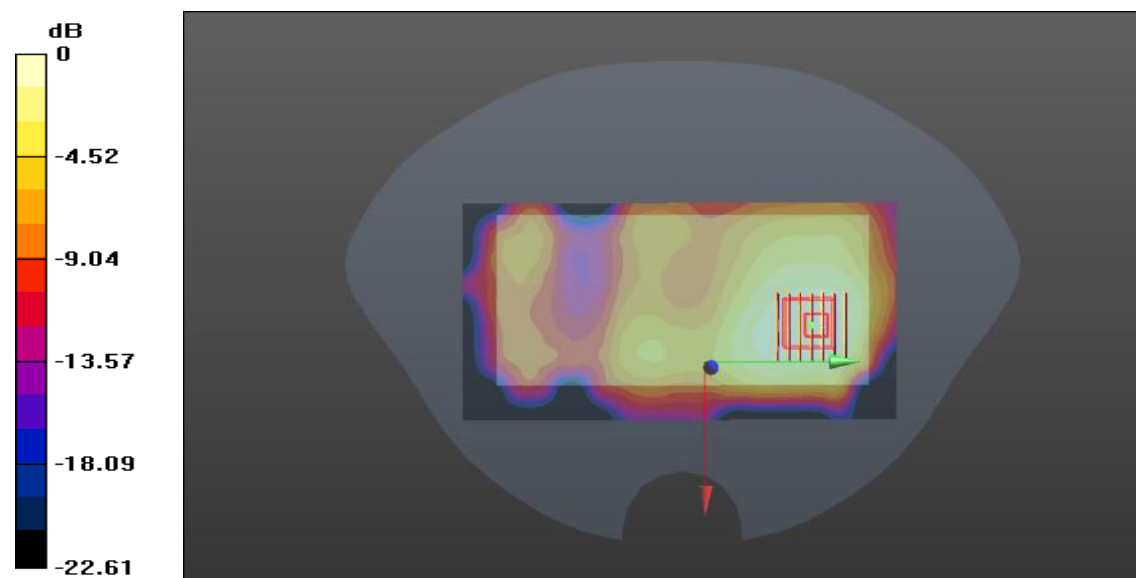
Ch20850/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 4.576 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.408 W/kg

SAR(1 g) = 0.236 W/kg; SAR(10 g) = 0.136 W/kg

Maximum value of SAR (measured) = 0.257 W/kg



Meas.27 Body Plane with Top Edge 10mm on Low Channel in LTE Band7 mode with Antenna1

Date: 2022.03.13

Communication System Band: Band 7; Frequency: 2510 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2510$ MHz; $\sigma = 1.867$ S/m; $\epsilon_r = 39.102$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.8 Liquid Temperature: 21.7

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.63, 7.63, 7.63); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch20850/Area Scan (61x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.772 W/kg

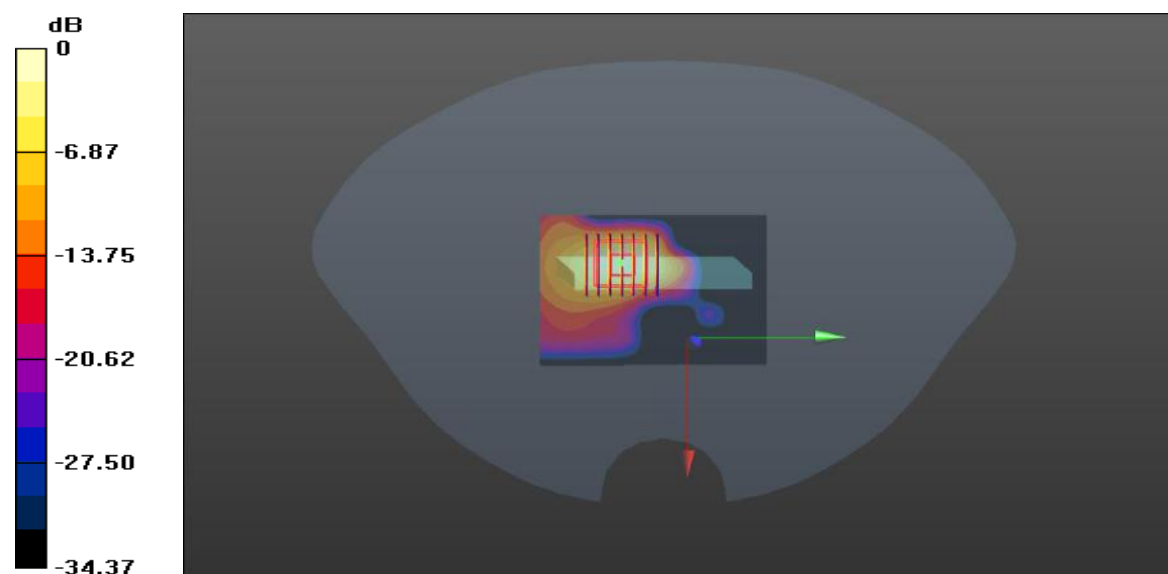
Ch20850/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.809 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.12 W/kg

SAR(1 g) = 0.529 W/kg; SAR(10 g) = 0.221 W/kg

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



Meas.28 Right Head with Cheek on High Channel in LTE Band12 mode with Antenna1

Date: 2022.03.07

Communication System Band: Band 12; Frequency: 711 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 711$ MHz; $\sigma = 0.9$ S/m; $\epsilon_r = 41.949$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature: 22.5 Liquid Temperature: 21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.1, 10.1, 10.1); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); 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) = 0.0910 W/kg

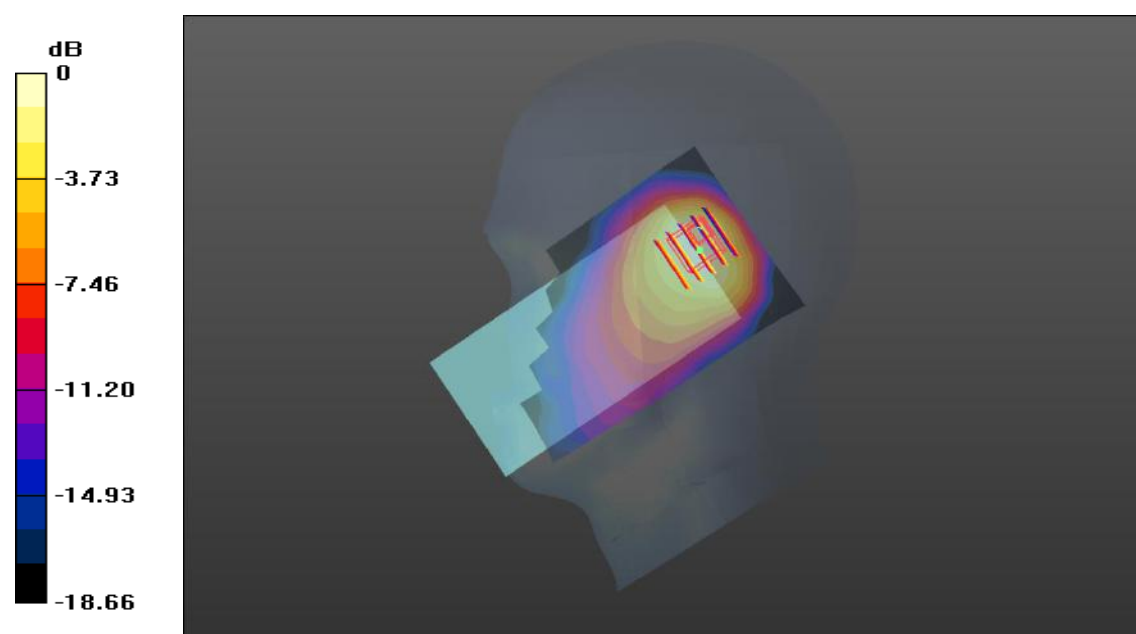
CH23130/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.178 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.133 W/kg

SAR(1 g) = 0.092 W/kg; SAR(10 g) = 0.049 W/kg

Maximum value of SAR (measured) = 0.0972 W/kg



0 dB = 0.0972 W/kg

Meas.29 Body Plane with Back Side 15mm on Low Channel in LTE Band12 mode with Antenna0

Date: 2022.03.07

Communication System Band: Band 12; Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 707.5$ MHz; $\sigma = 0.881$ S/m; $\epsilon_r = 42.368$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.5 Liquid Temperature: 21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.1, 10.1, 10.1); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch23095/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.132 W/kg

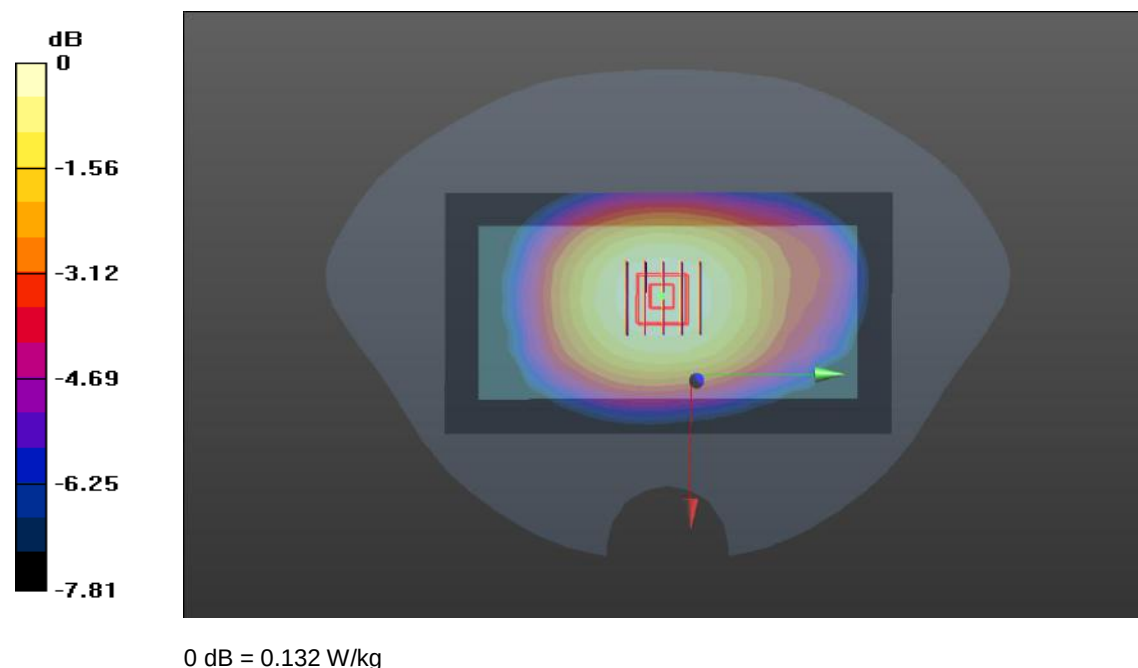
Ch23095/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.95 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.157 W/kg

SAR(1 g) = 0.126 W/kg; SAR(10 g) = 0.096 W/kg

Maximum value of SAR (measured) = 0.132 W/kg



Meas.30 Body Plane with Back Side 10mm on Middle Channel in LTE Band12 mode with Antenna0

Date: 2022.03.07

Communication System Band: Band 12; Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 707.5$ MHz; $\sigma = 0.881$ S/m; $\epsilon_r = 42.368$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.5 Liquid Temperature: 21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.1, 10.1, 10.1); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

Ch23095/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

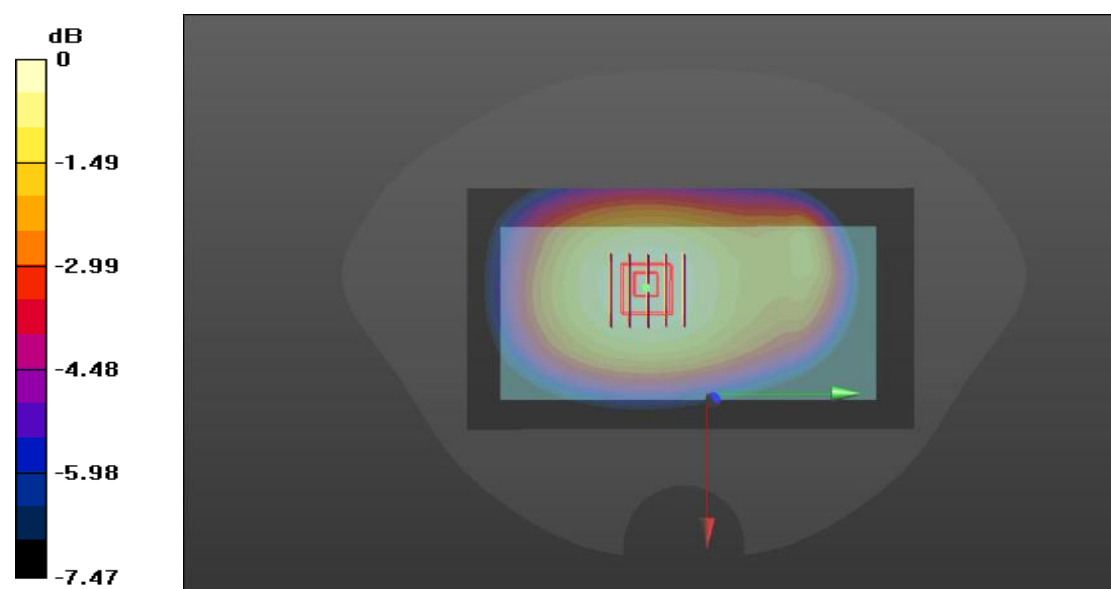
Ch23095/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.135 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.122 W/kg

SAR(1 g) = 0.099 W/kg; SAR(10 g) = 0.076 W/kg

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



0 dB = 0.105 W/kg

Meas.31 Right Head with Cheek on Middle Channel in LTE Band13 mode with Antenna1

Date: 2022.03.07

Communication System Band: Band 13; Frequency: 782 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 782$ MHz; $\sigma = 0.911$ S/m; $\epsilon_r = 41.3$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature: 22.5 Liquid Temperature: 21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.1, 10.1, 10.1); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CH23230/Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.352 W/kg

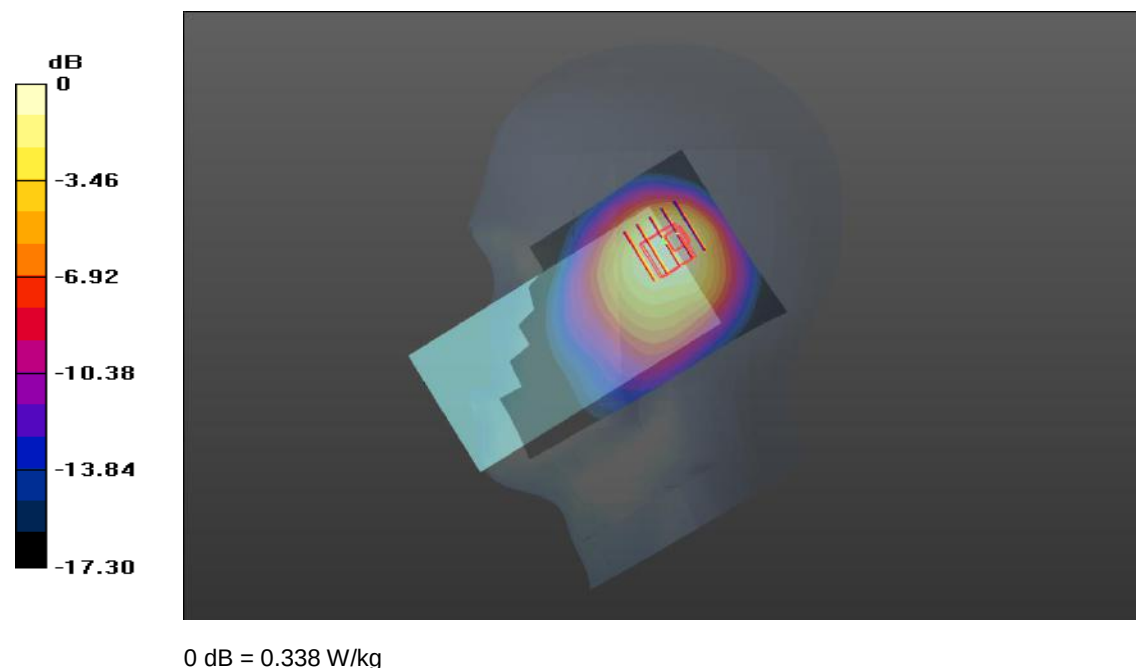
CH23230/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.06 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.621 W/kg

SAR(1 g) = 0.318 W/kg; SAR(10 g) = 0.196 W/kg

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



Meas.32 Body Plane with Back Side 15mm on Middle Channel in LTE Band13 mode with Antenna0

Date: 2022.03.07

Communication System Band: Band 13; Frequency: 782 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 782 \text{ MHz}$; $\sigma = 0.911 \text{ S/m}$; $\epsilon_r = 41.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature: 22.5 Liquid Temperature: 21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.1, 10.1, 10.1); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch23230/Area Scan (71x131x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.167 W/kg

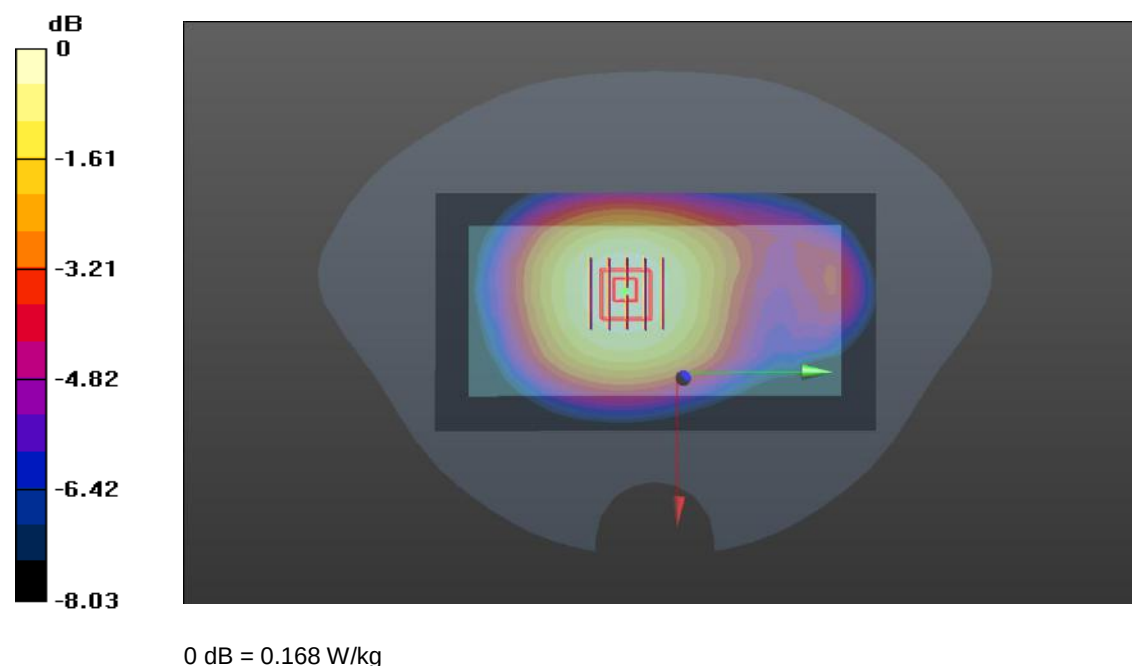
Ch23230/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 13.01 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.201 W/kg

SAR(1 g) = 0.160 W/kg; SAR(10 g) = 0.123 W/kg

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



Meas.33 Body Plane with Back Side 10mm on Middle Channel in LTE Band13 mode with Antenna0

Date: 2022.03.07

Communication System Band: Band 13; Frequency: 782 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 782 \text{ MHz}$; $\sigma = 0.911 \text{ S/m}$; $\epsilon_r = 41.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature: 22.5 Liquid Temperature: 21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.1, 10.1, 10.1); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch23230/Area Scan (71x131x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.178 W/kg

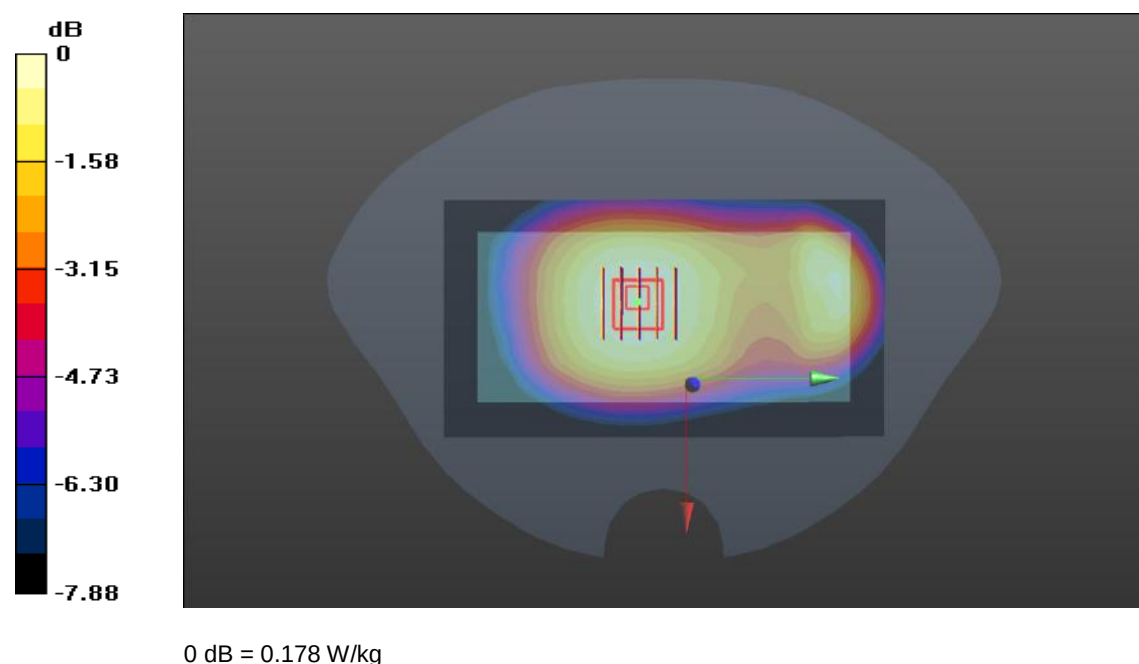
Ch23230/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 13.50 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.211 W/kg

SAR(1 g) = 0.170 W/kg; SAR(10 g) = 0.131 W/kg

Maximum value of SAR (measured) = 0.178 W/kg



Meas.34 Right Head with Cheek on High Channel in LTE Band26 mode with Antenna1

Date: 2022.03.09

Communication System Band: Band 26; Frequency: 841.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 841.5$ MHz; $\sigma = 0.911$ S/m; $\epsilon_r = 41.715$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature: 22.1 Liquid Temperature: 21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.72, 9.72, 9.72); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CH26965/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.800 W/kg

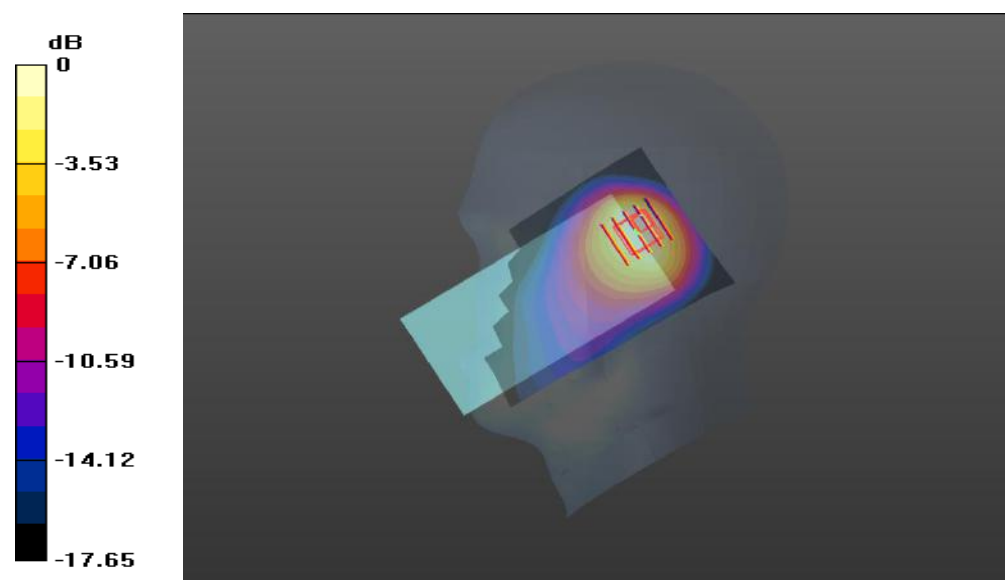
CH26965/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.25 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.72 W/kg

SAR(1 g) = 0.766 W/kg; SAR(10 g) = 0.425 W/kg

Maximum value of SAR (measured) = 0.820 W/kg



0 dB = 0.820 W/kg

Meas.35 Body Plane with Back Side 15mm on Low Channel in LTE Band26 mode with Antenna0

Date: 2022.03.09

Communication System Band: Band 26; Frequency: 821.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 821.5$ MHz; $\sigma = 0.89$ S/m; $\epsilon_r = 42.146$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.1 Liquid Temperature: 21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.72, 9.72, 9.72); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch226765/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.118 W/kg

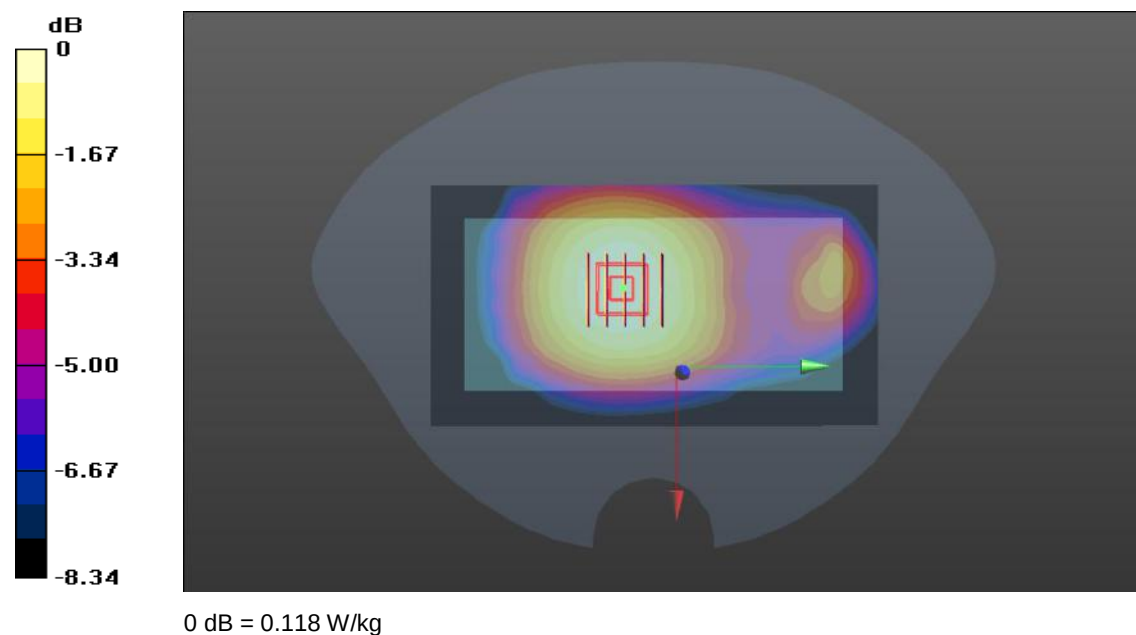
Ch226765/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.25 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.141 W/kg

SAR(1 g) = 0.113 W/kg; SAR(10 g) = 0.086 W/kg

Maximum value of SAR (measured) = 0.118 W/kg



Meas.36 Body Plane with Top Edge 10mm on Low Channel in LTE Band26 mode with Antenna1

Date: 2022.03.09

Communication System Band: Band 26; Frequency: 821.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 821.5$ MHz; $\sigma = 0.89$ S/m; $\epsilon_r = 42.146$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.1 Liquid Temperature: 21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.72, 9.72, 9.72); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch26765/Area Scan (51x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

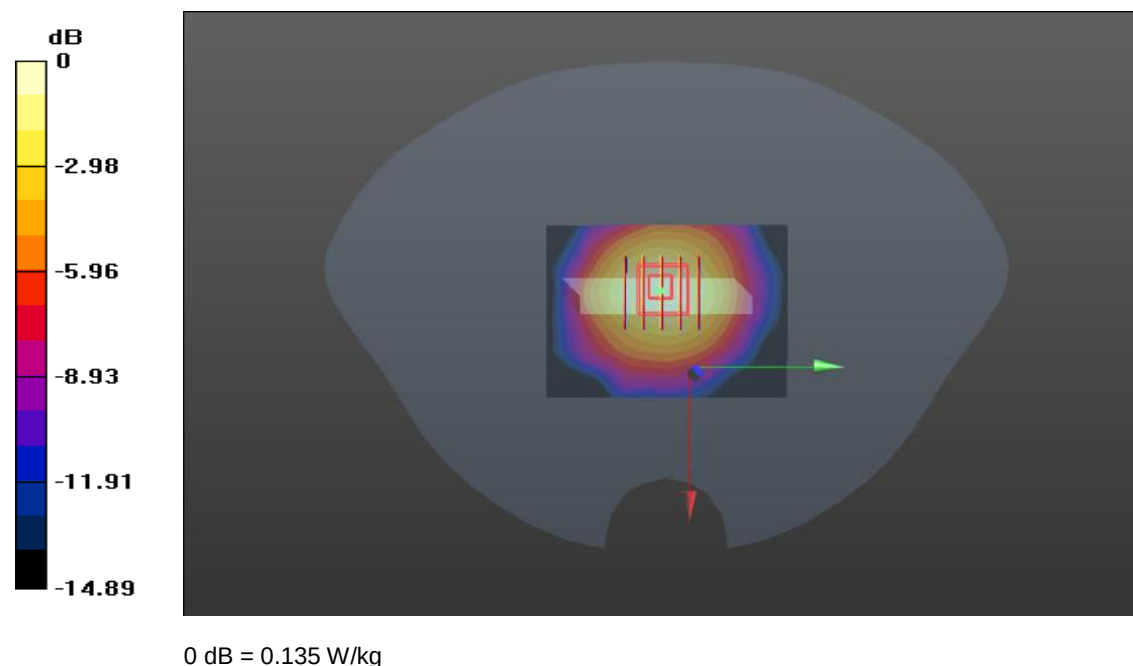
Ch26765/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.27 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.185 W/kg

SAR(1 g) = 0.124 W/kg; SAR(10 g) = 0.079 W/kg

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



Meas.37 Right Head with Tilt on High Channel in LTE Band66 mode with Antenna1

Date: 2022.03.11

Communication System Band: Band 66; Frequency: 1770 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1770$ MHz; $\sigma = 1.392$ S/m; $\epsilon_r = 39.384$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature:22.2 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.51, 8.51, 8.51); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CH132572/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

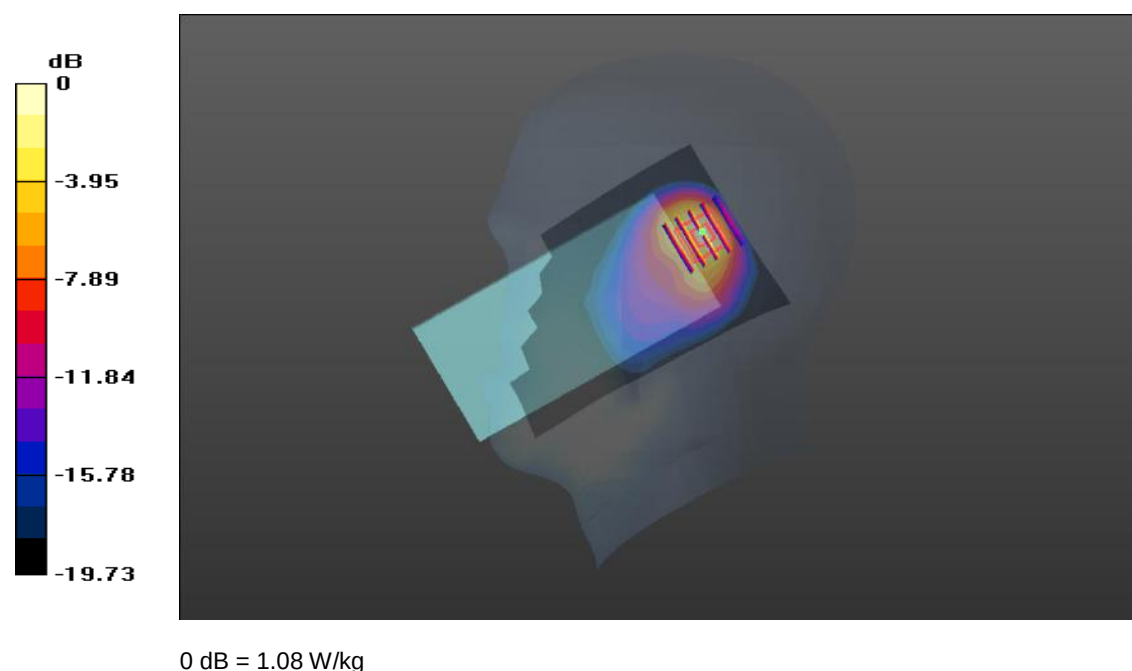
CH132572/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.12 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 1.92 W/kg

SAR(1 g) = 0.926 W/kg; SAR(10 g) = 0.427 W/kg

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



Meas.38 Body Plane with Back Side 15mm on High Channel in LTE Band66 mode with Antenna0

Date: 2022.03.11

Communication System Band: Band 66; Frequency: 1770 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1770$ MHz; $\sigma = 1.392$ S/m; $\epsilon_r = 39.384$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.2 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.51, 8.51, 8.51); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.398 W/kg

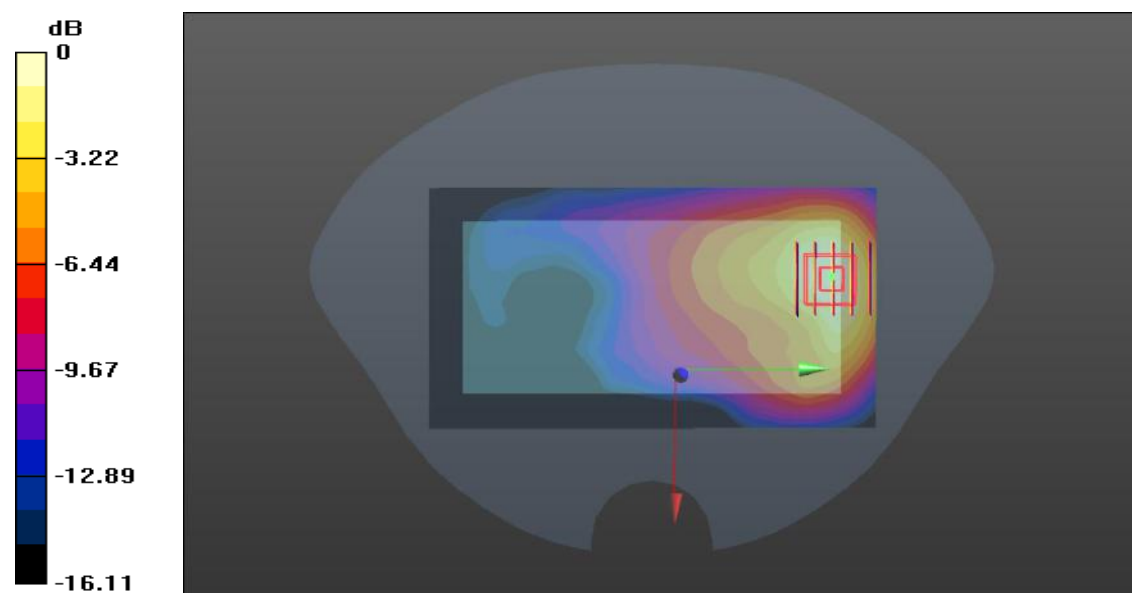
Ch132572/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.947 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.548 W/kg

SAR(1 g) = 0.361 W/kg; SAR(10 g) = 0.221 W/kg

Maximum value of SAR (measured) = 0.394 W/kg



0 dB = 0.394 W/kg

Meas.39 Body Plane with Bottom Side 10mm on Middle Channel in LTE Band66 mode with Antenna0

Date: 2022.03.11

Communication System Band: Band 66; Frequency: 1745 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1745$ MHz; $\sigma = 1.376$ S/m; $\epsilon_r = 40.333$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.2 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.51, 8.51, 8.51); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.604 W/kg

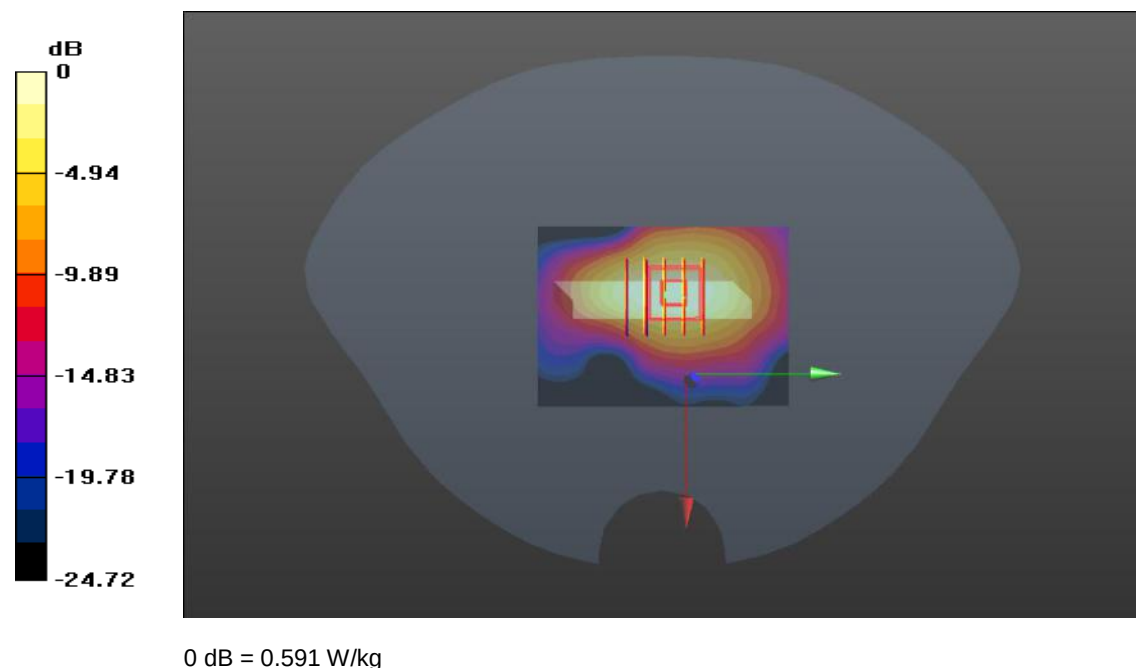
Ch132322/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.41 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.885 W/kg

SAR(1 g) = 0.541 W/kg; SAR(10 g) = 0.305 W/kg

Maximum value of SAR (measured) = 0.591 W/kg



Meas.40 Right Head with Tilt on High Channel in LTE Band38 mode with Antenna1

Date: 2022.03.13

Communication System Band: Band 38; Frequency: 2610 MHz; Duty Cycle: 1:1.58

Medium parameters used (interpolated): $f = 2610$ MHz; $\sigma = 1.988$ S/m; $\epsilon_r = 38.344$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature: 22.8 Liquid Temperature: 21.7

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.4, 7.4, 7.4); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CH38150/Area Scan (81x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.20 W/kg

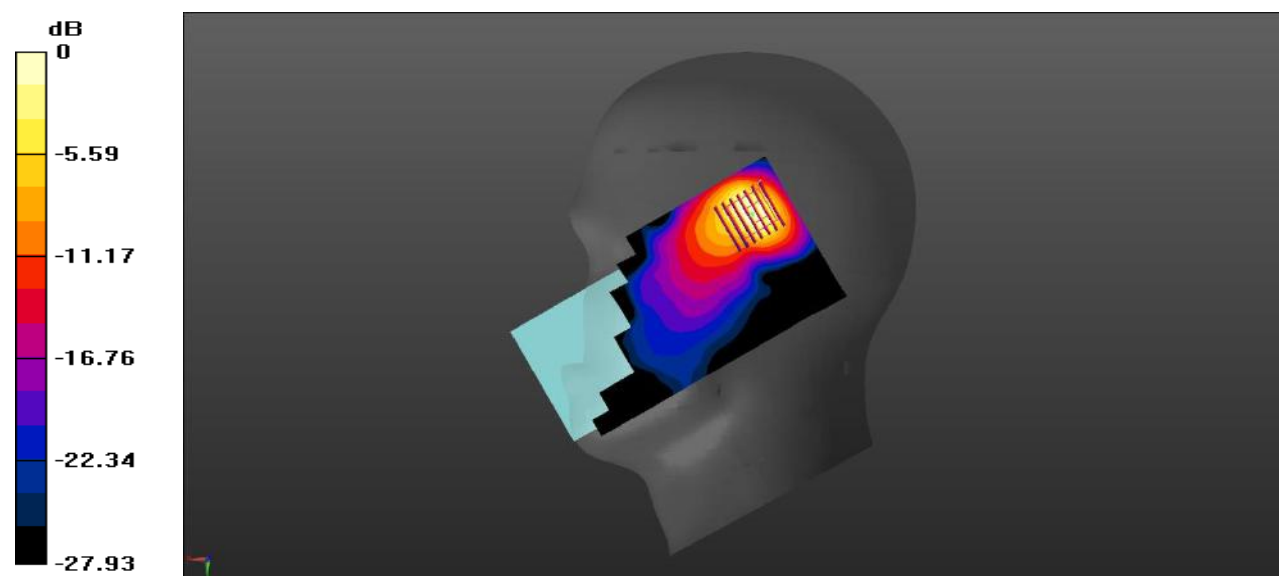
CH38150/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.893 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 2.61 W/kg

SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.395 W/kg

Maximum value of SAR (measured) = 1.35 W/kg



0 dB = 1.35 W/kg

Meas.41 Body Plane with Back Side 15mm on High Channel in LTE Band38 mode with Antenna0

Date: 2022.03.13

Communication System Band: Band 38; Frequency: 2610 MHz; Duty Cycle: 1:1.58

Medium parameters used (interpolated): $f = 2610$ MHz; $\sigma = 1.988$ S/m; $\epsilon_r = 38.344$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.8 Liquid Temperature: 21.7

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.4, 7.4, 7.4); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.254 W/kg

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

Reference Value = 5.064 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.332 W/kg

SAR(1 g) = 0.239 W/kg; SAR(10 g) = 0.128 W/kg

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



Meas.42 Body Plane with Top Side 10mm on High Channel in LTE Band38 mode with Antenna1

Date: 2022.03.13

Communication System Band: Band 38; Frequency: 2610 MHz; Duty Cycle: 1:1.58

Medium parameters used (interpolated): $f = 2610$ MHz; $\sigma = 1.988$ S/m; $\epsilon_r = 38.344$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.8 Liquid Temperature: 21.7

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.4, 7.4, 7.4); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch38150/Area Scan (61x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

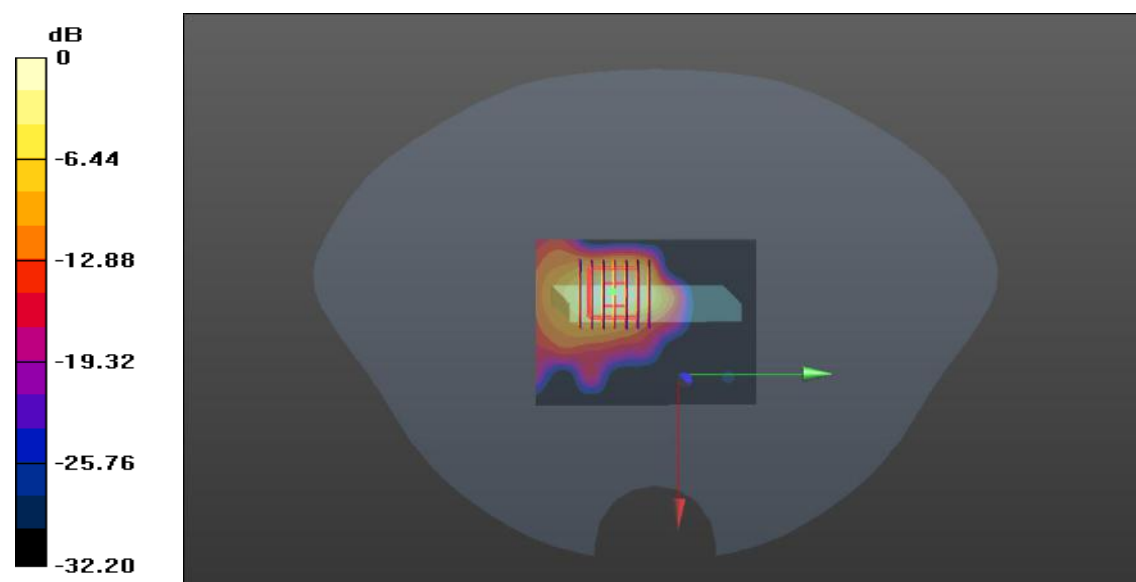
Ch38150/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.492 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.00 W/kg

SAR(1 g) = 0.469 W/kg; SAR(10 g) = 0.191 W/kg

Maximum value of SAR (measured) = 0.561 W/kg



0 dB = 0.561 W/kg

Meas.43 Right Head with Tilt on Low Channel in LTE Band41 mode with Antenna1

Date: 2022.03.14

Communication System Band: Band 41; Frequency: 2545 MHz; Duty Cycle: 1:1.58

Medium parameters used (interpolated): $f = 2545$ MHz; $\sigma = 1.9$ S/m; $\epsilon_r = 39.08$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature:22.3 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.63, 7.63, 7.63); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CH40140/Area Scan (81x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.20 W/kg

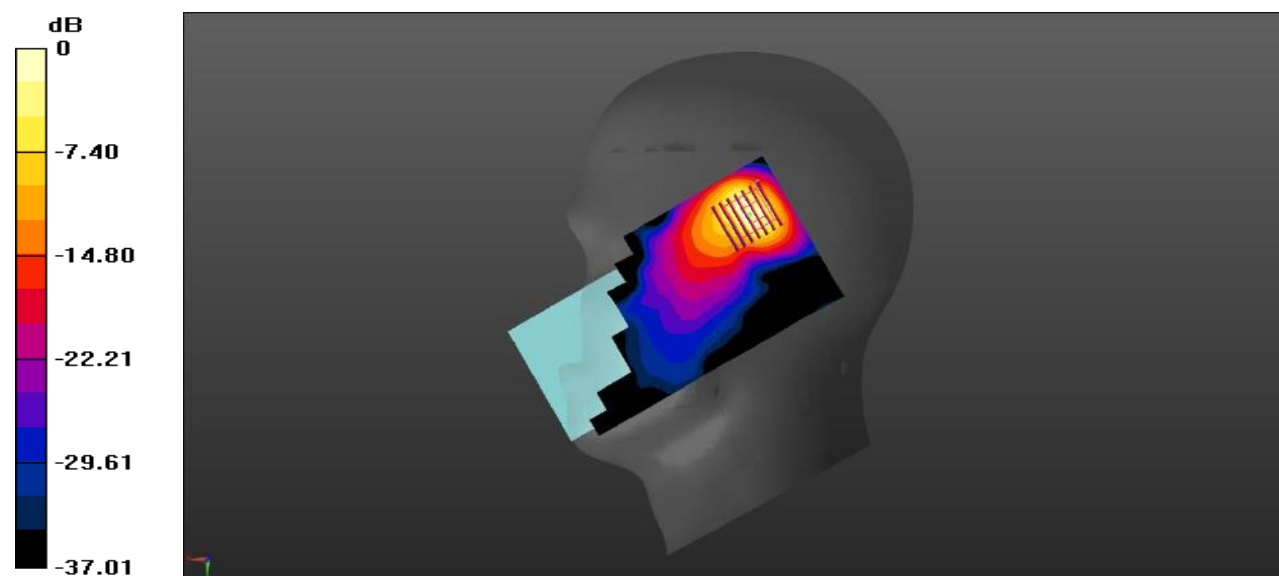
CH40140/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.744 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 2.60 W/kg

SAR(1 g) = 0.970 W/kg; SAR(10 g) = 0.408 W/kg

Maximum value of SAR (measured) = 1.31 W/kg



0 dB = 1.31 W/kg

Meas.44 Body Plane with Back Side 15mm on High Channel in LTE Band41 mode with Antenna0

Date: 2022.03.14

Communication System Band: Band 41; Frequency: 2645 MHz; Duty Cycle: 1:1.58

Medium parameters used (interpolated): $f = 2645$ MHz; $\sigma = 2.033$ S/m; $\epsilon_r = 38.571$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.4, 7.4, 7.4); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.242 W/kg

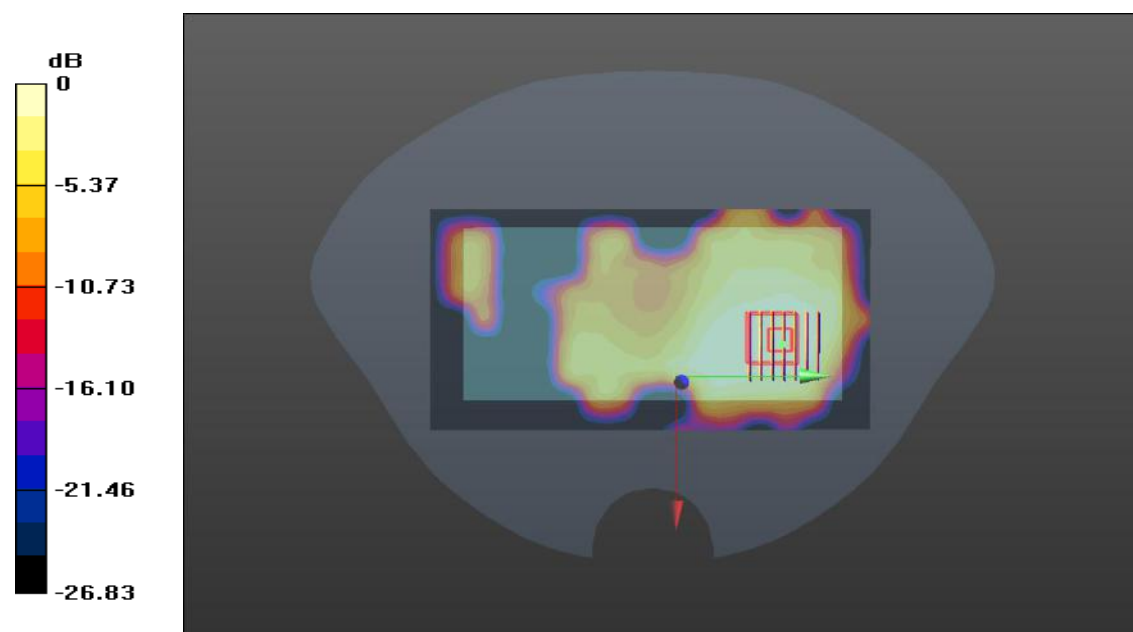
Ch41140/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.994 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.322 W/kg

SAR(1 g) = 0.228 W/kg; SAR(10 g) = 0.138 W/kg

Maximum value of SAR (measured) = 0.239 W/kg



Meas.45 Body Plane with Top Side 10mm on High Channel in LTE Band41 mode with Antenna1

Date: 2022.03.14

Communication System Band: Band 41; Frequency: 2645 MHz; Duty Cycle: 1:1.58

Medium parameters used (interpolated): $f = 2645$ MHz; $\sigma = 2.033$ S/m; $\epsilon_r = 38.571$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3 Liquid Temperature: 21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.4, 7.4, 7.4); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch41140/Area Scan (61x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

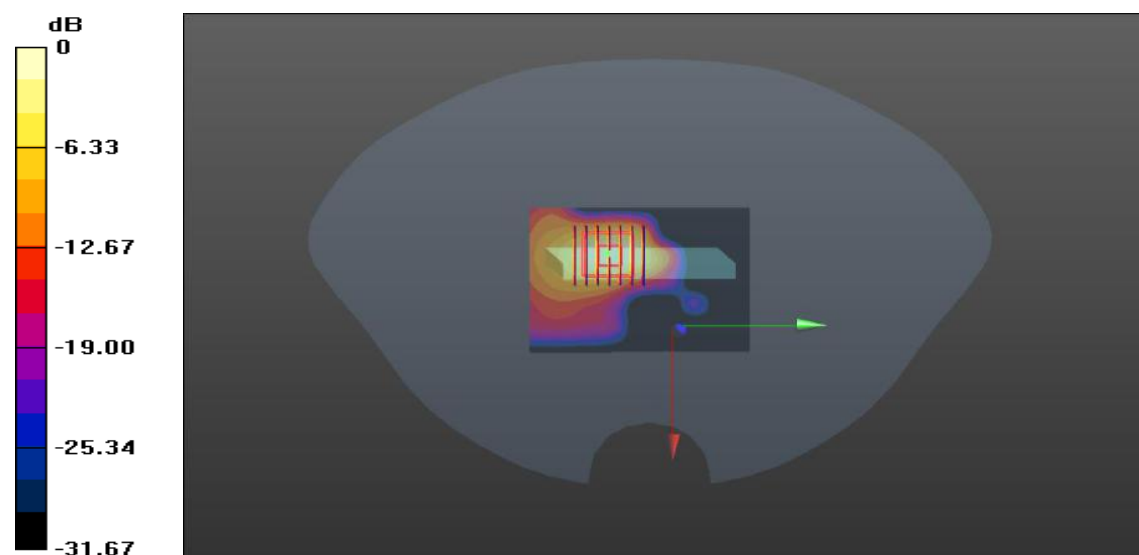
Ch41140/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.022 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.568 W/kg; SAR(10 g) = 0.234 W/kg

Maximum value of SAR (measured) = 0.672 W/kg



0 dB = 0.672 W/kg

Meas.46 Left Head with Cheek on 6 Channel in IEEE802.11b mode with Antenna2

Date: 2022.03.20

Communication System Band: WLAN(b); Frequency: 2437 MHz; Duty Cycle: 1:1.007

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.748$ S/m; $\epsilon_r = 38.357$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature:22.3 Liquid Temperature:21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.63, 7.63, 7.63); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch6/Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.30 W/kg

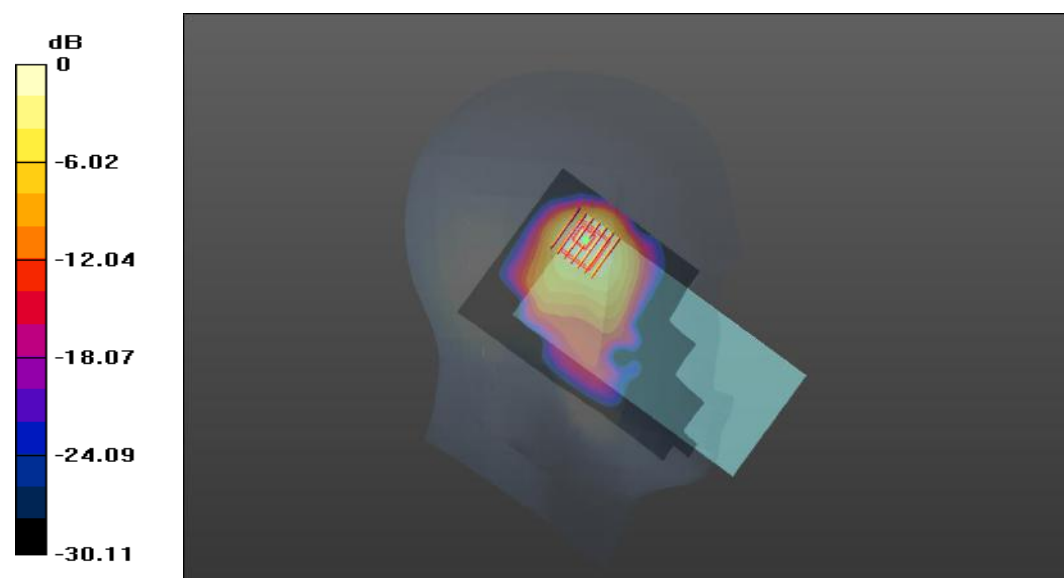
Ch6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.38 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 2.26 W/kg

SAR(1 g) = 0.976 W/kg; SAR(10 g) = 0.470 W/kg

Maximum value of SAR (measured) = 1.16 W/kg



0 dB = 1.16 W/kg

Meas.47 Body Plane with Back Side 15mm on 6 Channel in IEEE802.11b mode with Antenna2

Date: 2022.03.20

Communication System Band: WLAN(b); Frequency: 2437 MHz; Duty Cycle: 1:1.007

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.748$ S/m; $\epsilon_r = 38.357$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.63, 7.63, 7.63); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch6/Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

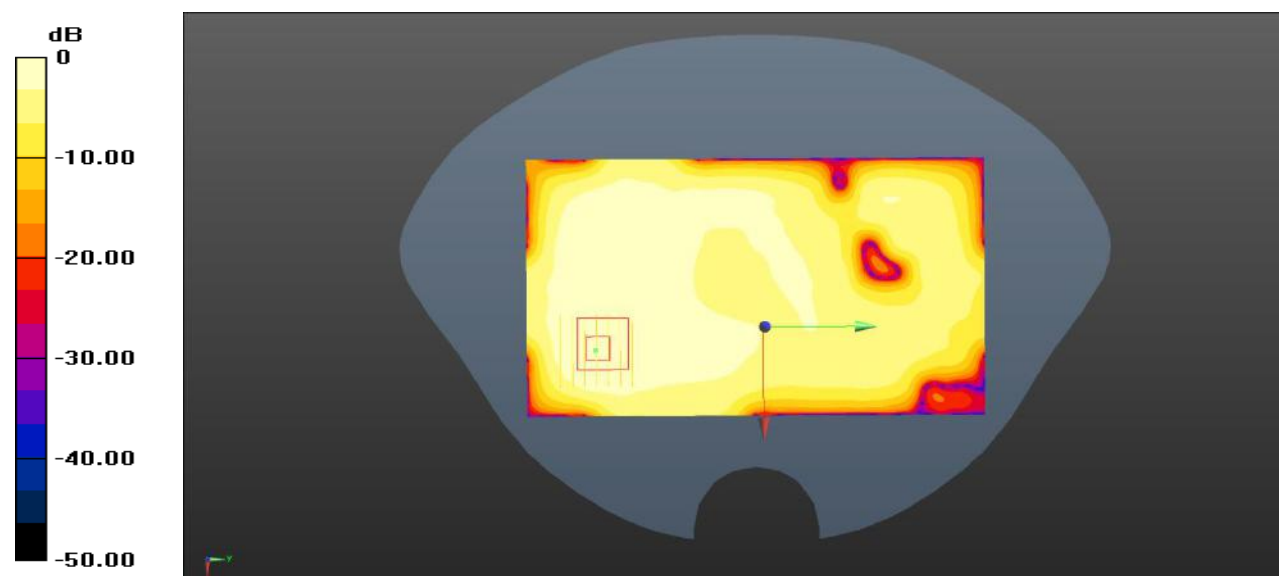
Ch6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.791 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.428 W/kg

SAR(1 g) = 0.176 W/kg; SAR(10 g) = 0.088 W/kg

Maximum value of SAR (measured) = 0.224 W/kg



0 dB = 0.224 W/kg

Meas.48 Body Plane with Back Side 10mm on 6 Channel in IEEE802.11b mode with Antenna2

Date: 2022.03.20

Communication System Band: WLAN(b); Frequency: 2437 MHz; Duty Cycle: 1:1.007

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.748$ S/m; $\epsilon_r = 38.357$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.63, 7.63, 7.63); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch6/Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

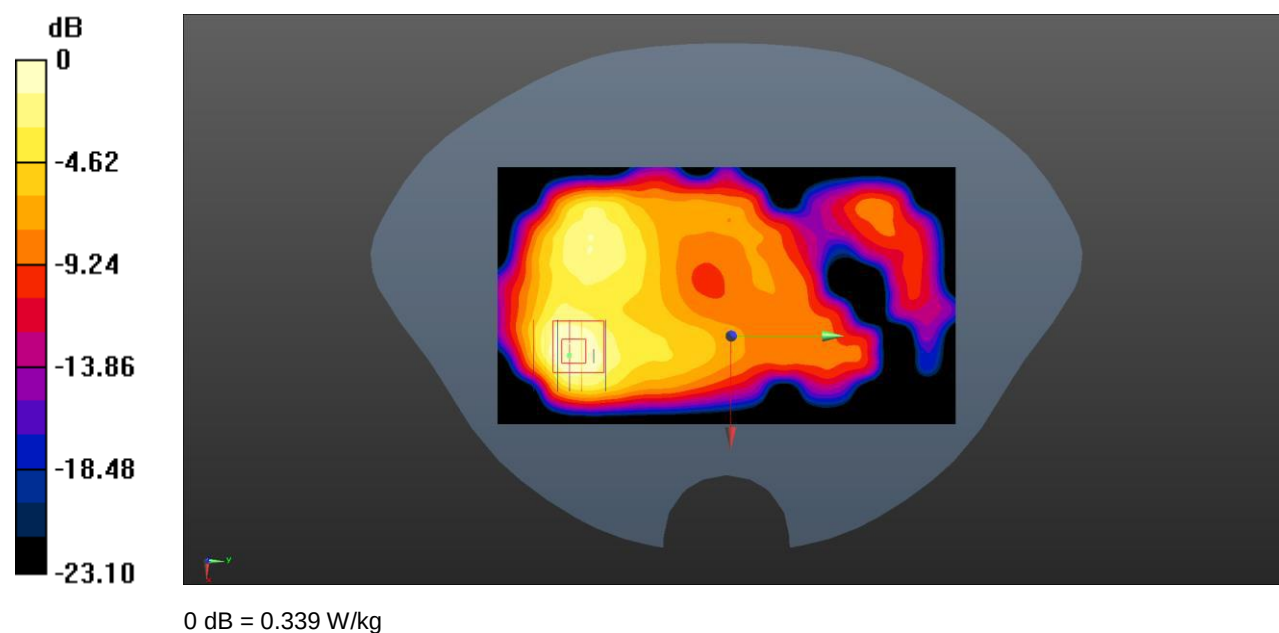
Ch6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.704 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.651 W/kg

SAR(1 g) = 0.310 W/kg; SAR(10 g) = 0.149 W/kg

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



Meas.49 Left Head with Cheek on Channel 58 in IEEE802.11ac80 mode with Antenna2

Date: 2022.03.21

Communication System Band: WLAN(ac) 80MHz; Frequency: 5290 MHz; Duty Cycle: 1:1.138

Medium parameters used: $f = 5290$ MHz; $\sigma = 4.679$ S/m; $\epsilon_r = 35.552$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature:22.3 Liquid Temperature:21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(5.42, 5.42, 5.42); Calibrated: 2021.12.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

Ch58/Area Scan (101x171x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.854 W/kg

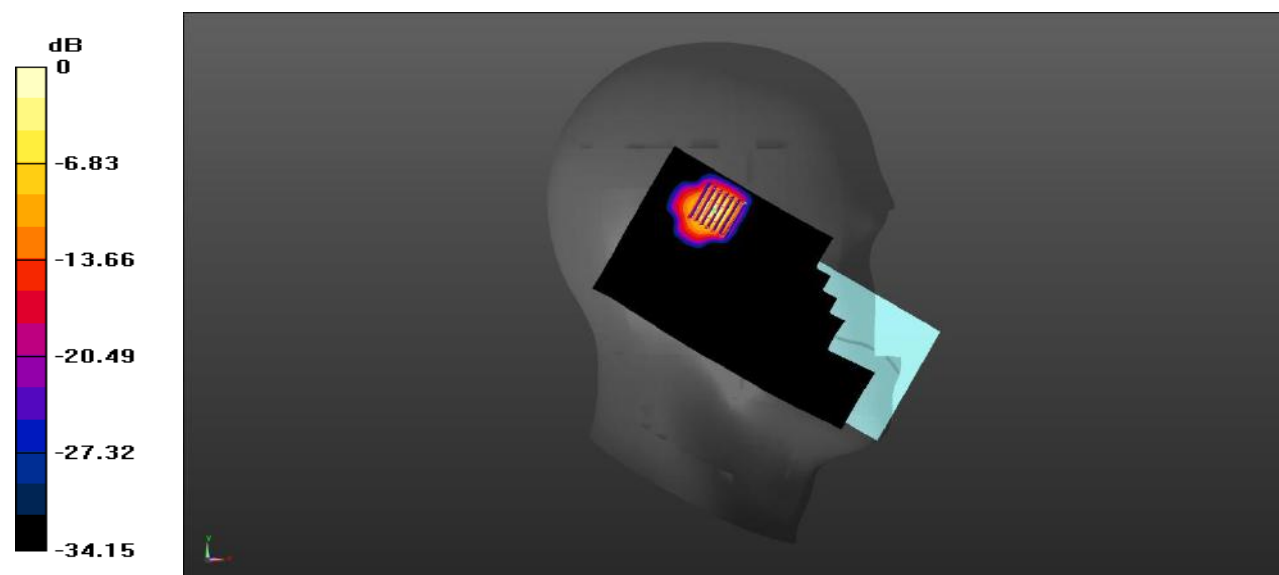
Ch58/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

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

Peak SAR (extrapolated) = 3.41 W/kg

SAR(1 g) = 0.562 W/kg; SAR(10 g) = 0.132 W/kg

Maximum value of SAR (measured) = 1.48 W/kg



0 dB = 1.48 W/kg

Meas.50 Left Head with Cheek on 106 Channel in IEEE802.11ac80 mode with Antenna2

Date: 2022.03.22

Communication System Band: WLAN(ac) 80MHz; Frequency: 5530 MHz;Duty Cycle: 1:1.138

Medium parameters used: $f = 5530$ MHz; $\sigma = 4.934$ S/m; $\epsilon_r = 36.418$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature:22.6 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(4.81, 4.81, 4.81); Calibrated: 2021.12.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch106/Area Scan (101x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

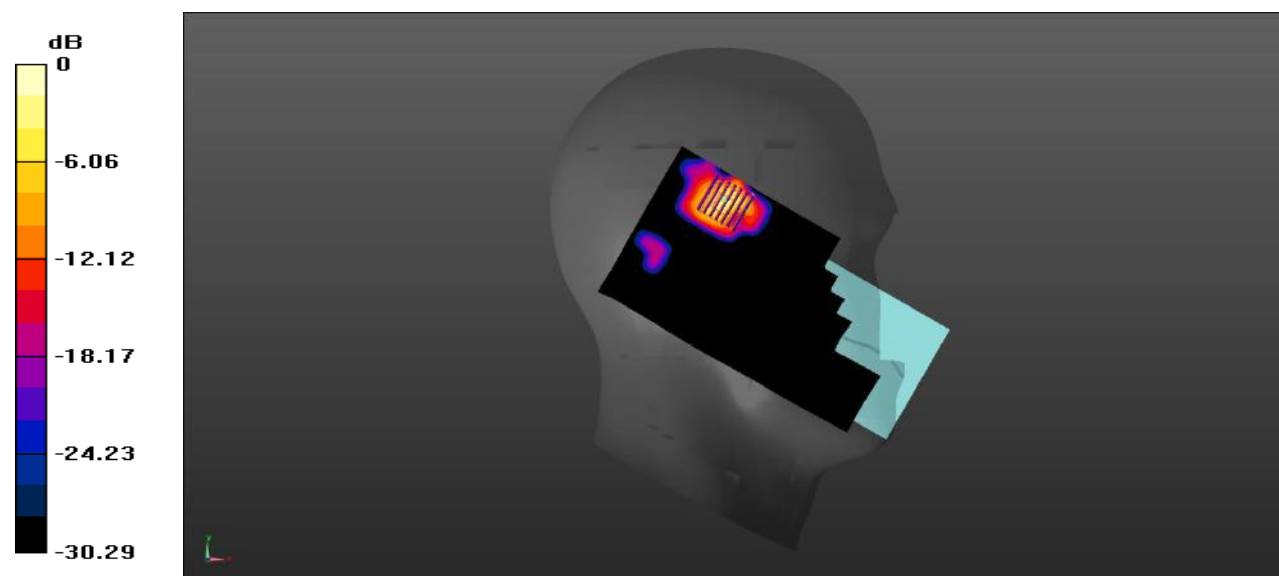
Ch106/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

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

Peak SAR (extrapolated) = 3.50 W/kg

SAR(1 g) = 0.598 W/kg; SAR(10 g) = 0.154 W/kg

Maximum value of SAR (measured) = 1.86 W/kg



0 dB = 1.86 W/kg

Meas.51 Left Head with Cheek on Channel 155 in IEEE802.11ac80 mode with Antenna2

Date: 2022.03.23

Communication System Band: WLAN(ac) 80MHz; Frequency: 5775 MHz; Duty Cycle: 1:1.138

Medium parameters used (interpolated): $f = 5775$ MHz; $\sigma = 5.185$ S/m; $\epsilon_r = 34.973$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature:22.9 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(4.9, 4.9, 4.9); Calibrated: 2021.12.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

Ch155/Area Scan (101x171x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.829 W/kg

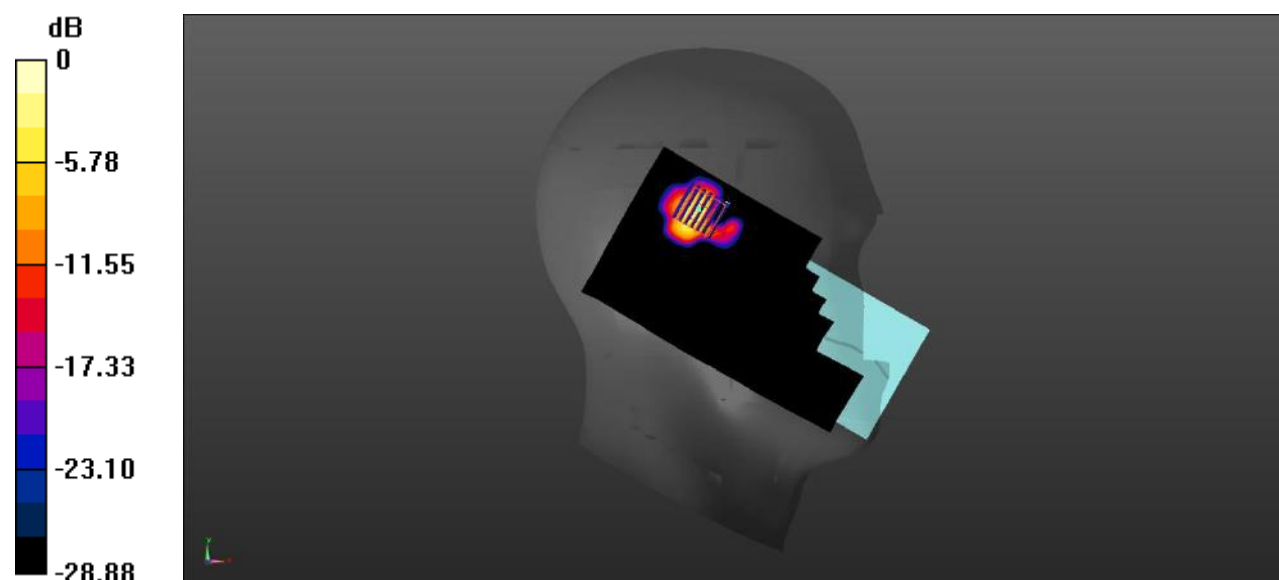
Ch155/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.160 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 2.81 W/kg

SAR(1 g) = 0.558 W/kg; SAR(10 g) = 0.147 W/kg

Maximum value of SAR (measured) = 1.37 W/kg



0 dB = 1.37 W/kg

Meas.52 Body Plane with Back Side 15mm on Channel 58 in IEEE802.11ac80 mode with Antenna2

Date: 2022.03.21

Communication System Band: WLAN(ac) 80MHz; Frequency: 5290 MHz; Duty Cycle: 1:1.138

Medium parameters used: $f = 5290$ MHz; $\sigma = 4.679$ S/m; $\epsilon_r = 35.552$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(5.42, 5.42, 5.42); Calibrated: 2021.12.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch58/Area Scan (101x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

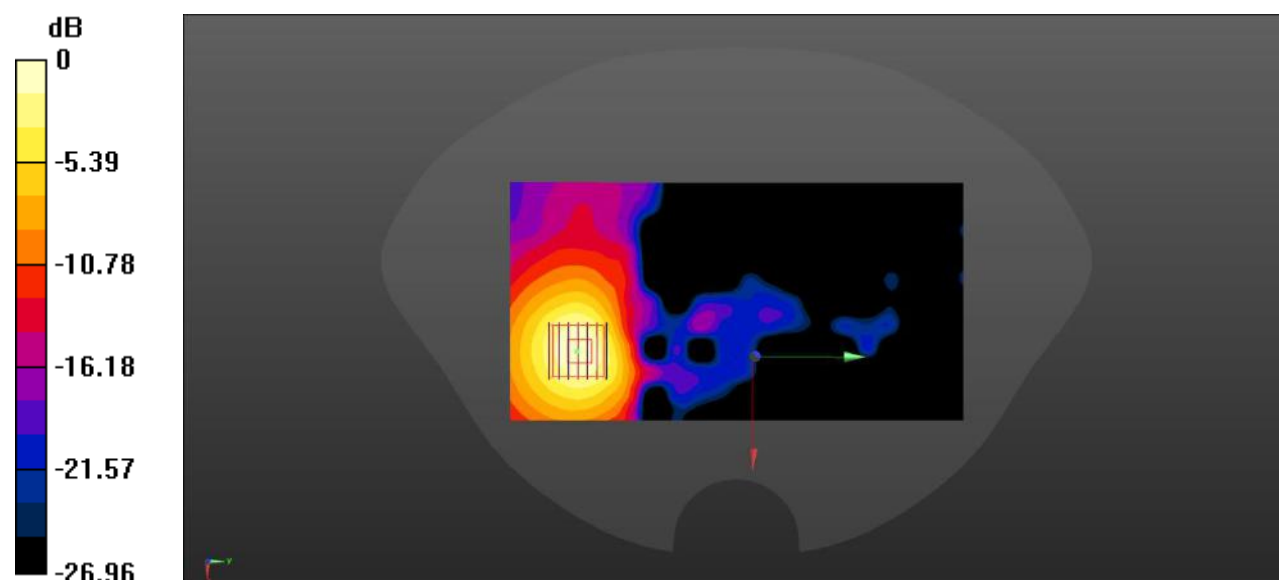
Ch58/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.381 W/kg; SAR(10 g) = 0.148 W/kg

Maximum value of SAR (measured) =0.688 W/kg



0 dB = 0.688 W/kg

Meas.53 Body Plane with Back Side 15mm on 106 Channel in IEEE802.11ac80 mode with Antenna2

Date: 2022.03.22

Communication System Band: WLAN(ac) 80MHz; Frequency: 5530 MHz; Duty Cycle: 1:1.138

Medium parameters used (interpolated): $f = 5530$ MHz; $\sigma = 4.934$ S/m; $\epsilon_r = 36.418$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.6 Liquid Temperature: 21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(4.81, 4.81, 4.81); Calibrated: 2021.12.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch106/Area Scan (101x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

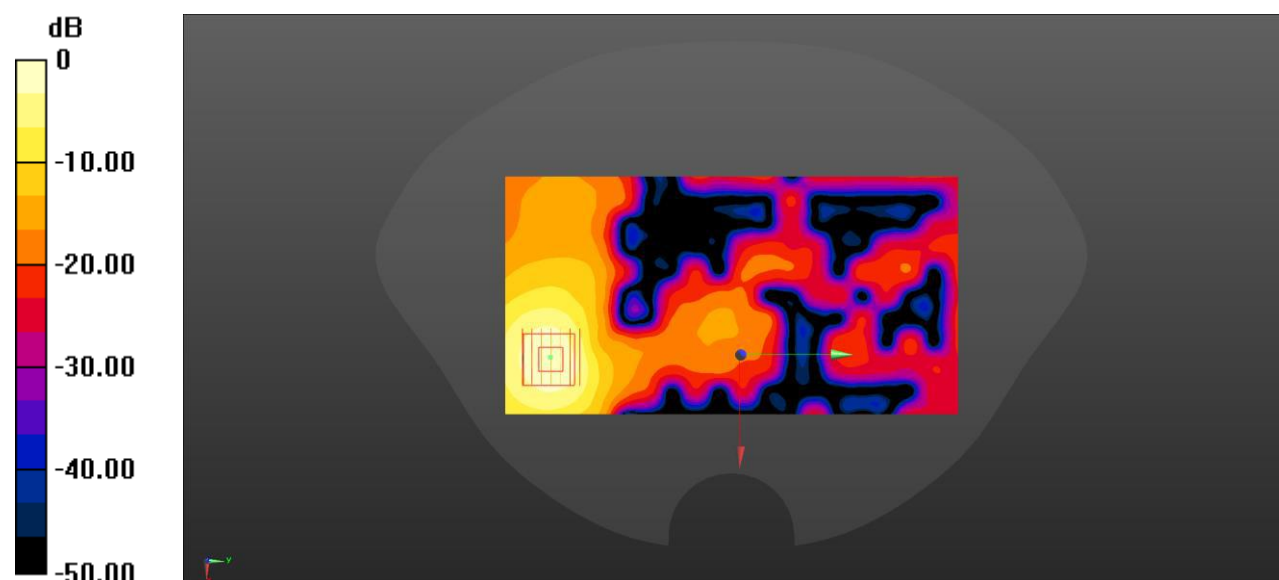
Ch106/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.70 W/kg

SAR(1 g) = 0.497 W/kg; SAR(10 g) = 0.187 W/kg

Maximum value of SAR (measured) = 0.908 W/kg



0 dB = 0.908 W/kg

Meas.54 Body Plane with Back Side 15mm on 155 Channel in IEEE802.11ac80 mode with Antenna2

Date: 2022.03.23

Communication System Band: WLAN(ac) 80MHz; Frequency: 5775 MHz; Duty Cycle: 1:1.138

Medium parameters used (interpolated): $f = 5775$ MHz; $\sigma = 5.185$ S/m; $\epsilon_r = 34.973$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.9 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(4.9, 4.9, 4.9); Calibrated: 2021.12.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch155/Area Scan (101x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.868 W/kg

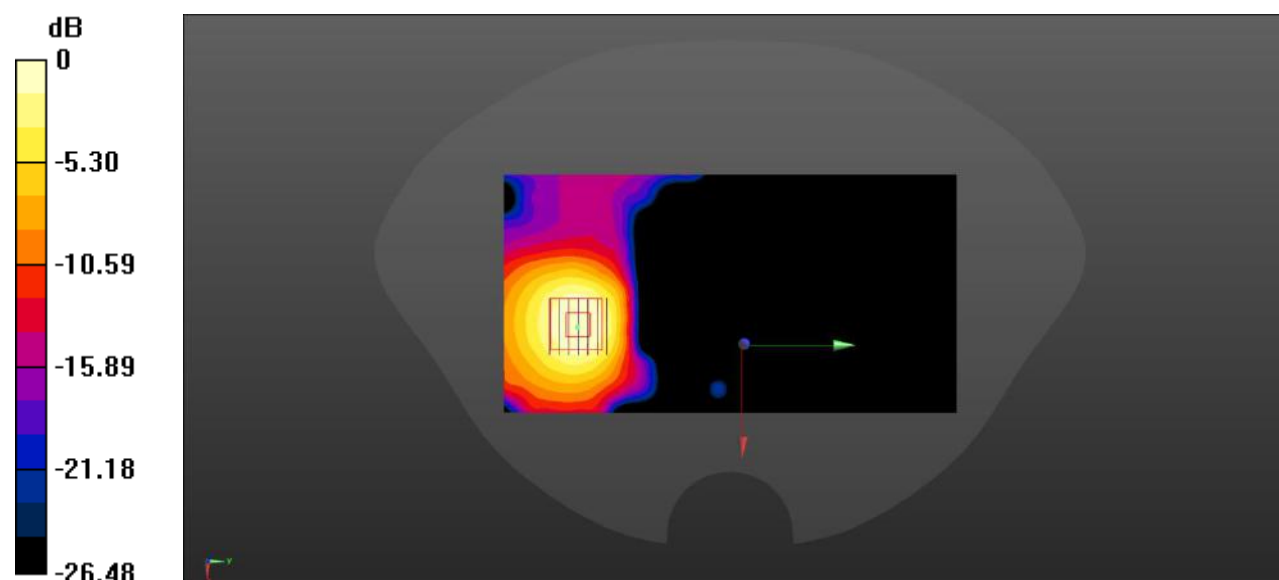
Ch155/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.57 W/kg

SAR(1 g) = 0.426 W/kg; SAR(10 g) = 0.168 W/kg

Maximum value of SAR (measured) = 0.771 W/kg



Meas.55 Body Plane with Left Side 10mm on 42 Channel in IEEE802.11ac80 mode with Antenna2

Date: 2022.03.21

Communication System Band: WLAN(ac) 80MHz; Frequency: 5210 MHz; Duty Cycle: 1:1.138

Medium parameters used (interpolated): $f = 5210$ MHz; $\sigma = 4.556$ S/m; $\epsilon_r = 36.719$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3 Liquid Temperature: 21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(5.42, 5.42, 5.42); Calibrated: 2021.12.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch42/Area Scan (81x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.437 W/kg

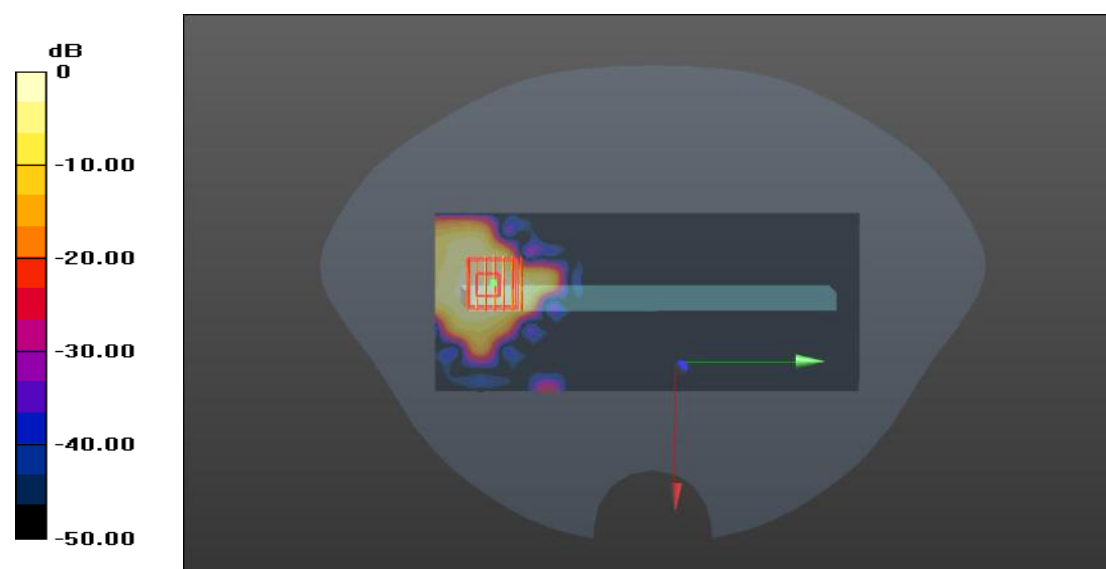
Ch42/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0.6540 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.791 W/kg

SAR(1 g) = 0.219 W/kg; SAR(10 g) = 0.068 W/kg

Maximum value of SAR (measured) = 0.446 W/kg



0 dB = 0.446 W/kg

Meas.56 Body Plane with Back Side 10mm on 155 Channel in IEEE802.11ac80 mode with Antenna2

Date: 2022.03.23

Communication System Band: WLAN(ac) 80MHz; Frequency: 5775 MHz; Duty Cycle: 1:1.138

Medium parameters used (interpolated): $f = 5775$ MHz; $\sigma = 5.185$ S/m; $\epsilon_r = 34.973$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.9 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(4.9, 4.9, 4.9); Calibrated: 2021.12.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch155/Area Scan (101x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.787 W/kg

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

Reference Value = 0 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.10 W/kg

SAR(1 g) = 0.304 W/kg; SAR(10 g) = 0.095 W/kg

Maximum value of SAR (measured) = 0.613 W/kg



Meas.57 Body Plane with Left Side 0mm on 58 Channel in IEEE802.11ac80 mode with Antenna2

Date: 2022.03.21

Communication System Band: WLAN(ac) 80MHz; Frequency: 5290 MHz; Duty Cycle: 1:1.138

Medium parameters used: $f = 5290$ MHz; $\sigma = 4.679$ S/m; $\epsilon_r = 35.552$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3 Liquid Temperature: 21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(5.42, 5.42, 5.42); Calibrated: 2021.12.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch58/Area Scan (81x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 18.3 W/kg

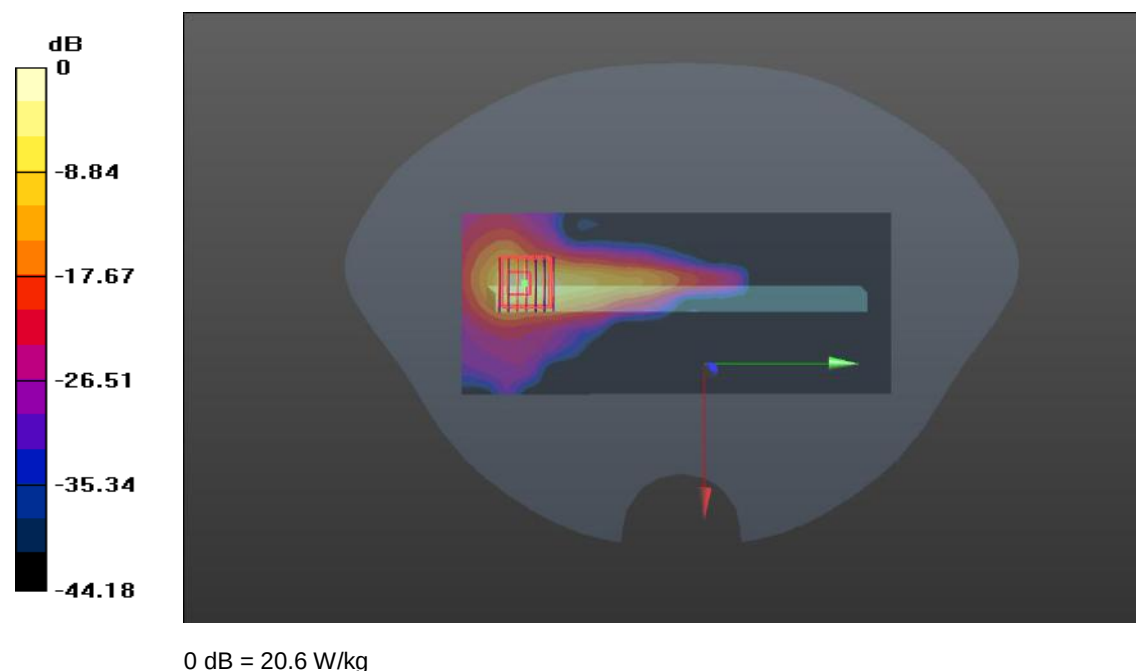
Ch58/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.108 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 50.7 W/kg

SAR(1 g) = 7.38 W/kg; SAR(10 g) = 1.62 W/kg

Maximum value of SAR (measured) = 20.6 W/kg



Meas.58 Body Plane with Left Side 0mm on 106 Channel in IEEE802.11ac80 mode with Antenna2

Date: 2022.03.22

Communication System Band: WLAN(ac) 80MHz; Frequency: 5530 MHz; Duty Cycle: 1:1.138

Medium parameters used: $f = 5530$ MHz; $\sigma = 4.934$ S/m; $\epsilon_r = 36.418$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.6 Liquid Temperature: 21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(4.81, 4.81, 4.81); Calibrated: 2021.12.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch106/Area Scan (81x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 18.5 W/kg

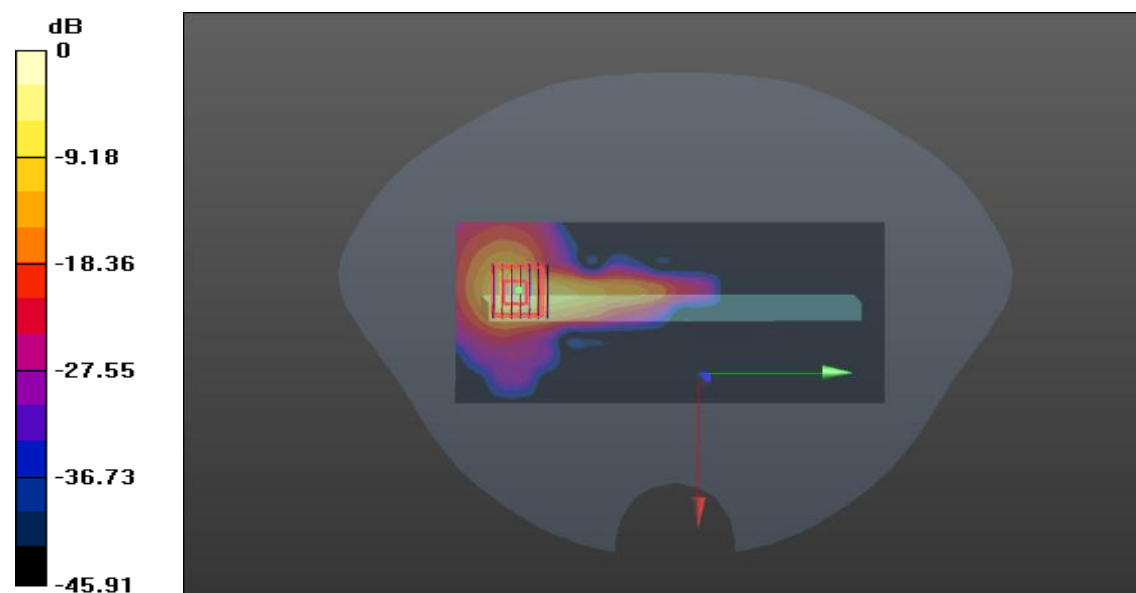
Ch106/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.035 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 53.6 W/kg

SAR(1 g) = 8.08 W/kg; SAR(10 g) = 1.75 W/kg

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



0 dB = 21.4 W/kg

Meas.59 Left Head with Cheek on 39 Channel in Bluetooth mode with Antenna2

Date: 2022.03.20

Communication System Band:BT; Frequency: 2441 MHz;Duty Cycle: 1:1.299

Medium parameters used (interpolated): $f = 2441$ MHz; $\sigma = 1.748$ S/m; $\epsilon_r = 38.342$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature:22.3 Liquid Temperature:21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.63, 7.63, 7.63); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch39/Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.353 W/kg

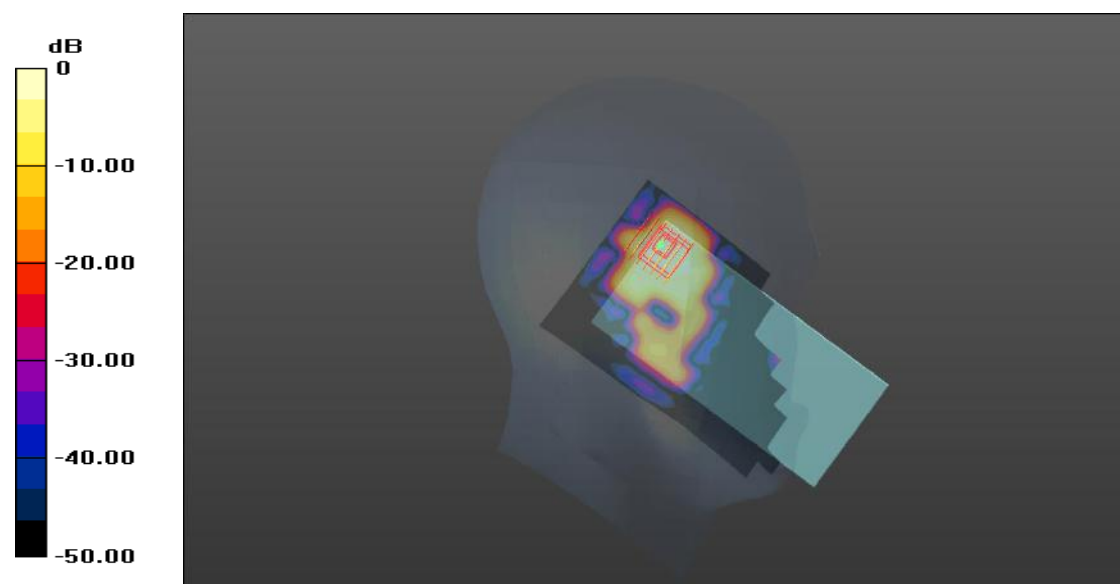
Ch39/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.687 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.377 W/kg

SAR(1 g) = 0.185 W/kg; SAR(10 g) = 0.084 W/kg

Maximum value of SAR (measured) = 0.211 W/kg



0 dB = 0.211 W/kg

Meas.60 Body Plane with Back Side 15mm on 39 Channel in Bluetooth mode with Antenna2

Date: 2022.03.20

Communication System Band:BT; Frequency: 2441 MHz;Duty Cycle: 1:1.299

Medium parameters used (interpolated): $f = 2441$ MHz; $\sigma = 1.748$ S/m; $\epsilon_r = 38.342$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.63, 7.63, 7.63); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch39/Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0131 W/kg

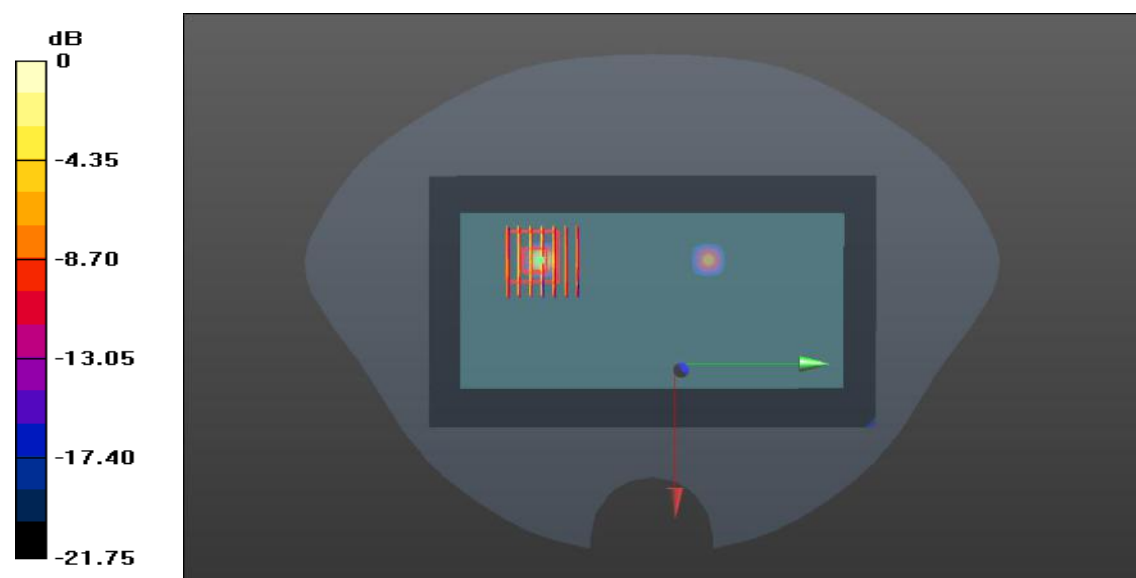
Ch39/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.6280 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.0790 W/kg

SAR(1 g) = 0.016 W/kg; SAR(10 g) = 0.00509 W/kg

Maximum value of SAR (measured) = 0.0132 W/kg



0 dB = 0.0132 W/kg

Meas.61 Body Plane with Back Side 15mm on 39 Channel in Bluetooth mode with Antenna2

Date: 2022.03.20

Communication System Band:BT; Frequency: 2441 MHz;Duty Cycle: 1:1.299

Medium parameters used (interpolated): $f = 2441$ MHz; $\sigma = 1.748$ S/m; $\epsilon_r = 38.342$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.63, 7.63, 7.63); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch39/Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0353 W/kg

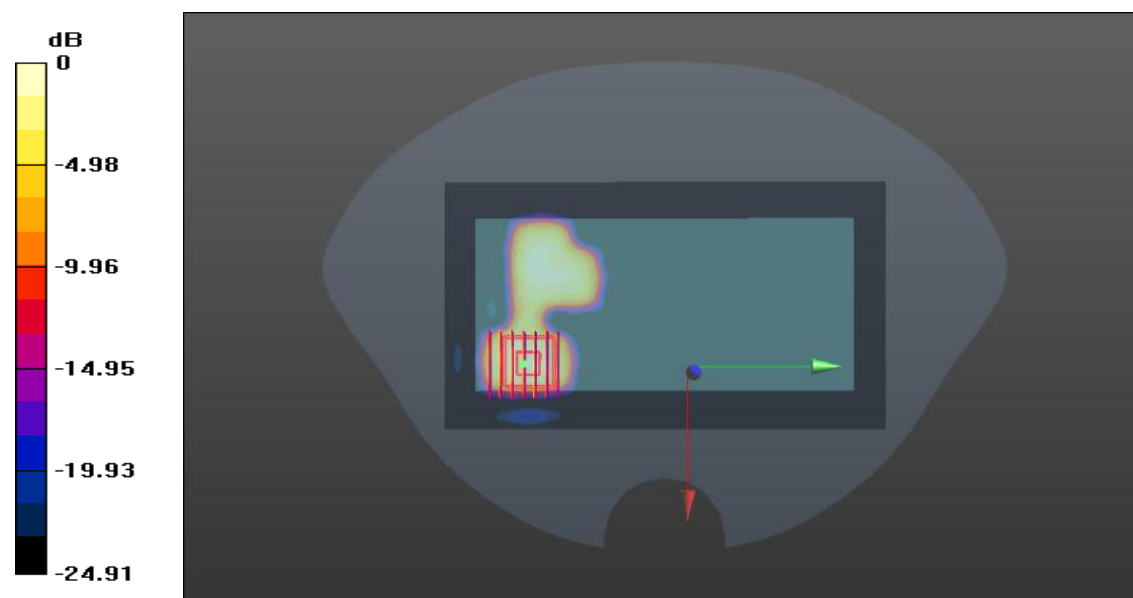
Ch39/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.7880 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.160 W/kg

SAR(1 g) = 0.033 W/kg; SAR(10 g) = 0.013 W/kg

Maximum value of SAR (measured) = 0.0321 W/kg



0 dB = 0.0321 W/kg

Meas.62-Body Plane with Bottom Edge 10mm on High Channel in WCDMA Band2 mode with Antenna0

Date: 2022.03.31

Communication System Band: II; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1907.6$ MHz; $\sigma = 1.404$ S/m; $\epsilon_r = 39.609$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.8 Liquid Temperature:21.9

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.13, 8.13, 8.13,); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch9538/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

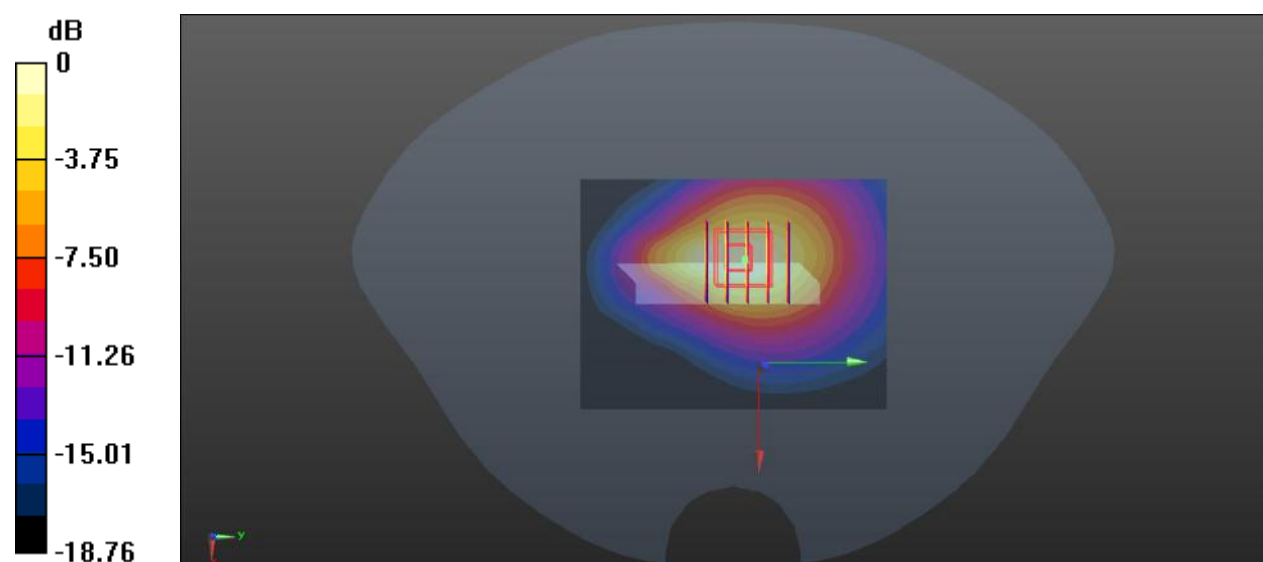
Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.20 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.636 W/kg; SAR(10 g) = 0.354 W/kg

Maximum value of SAR (measured) = 0.701 W/kg



0 dB = 0.701 W/kg

Meas.63 Right Head with Tilt on Middle Channel in WCDMA Band4 mode with Antenna 1

Date: 2022.03.31

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

Medium parameters used (interpolated): $f = 1732.4$ MHz; $\sigma = 1.362$ S/m; $\epsilon_r = 40.459$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature:22.1 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.51, 8.51, 8.51); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

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

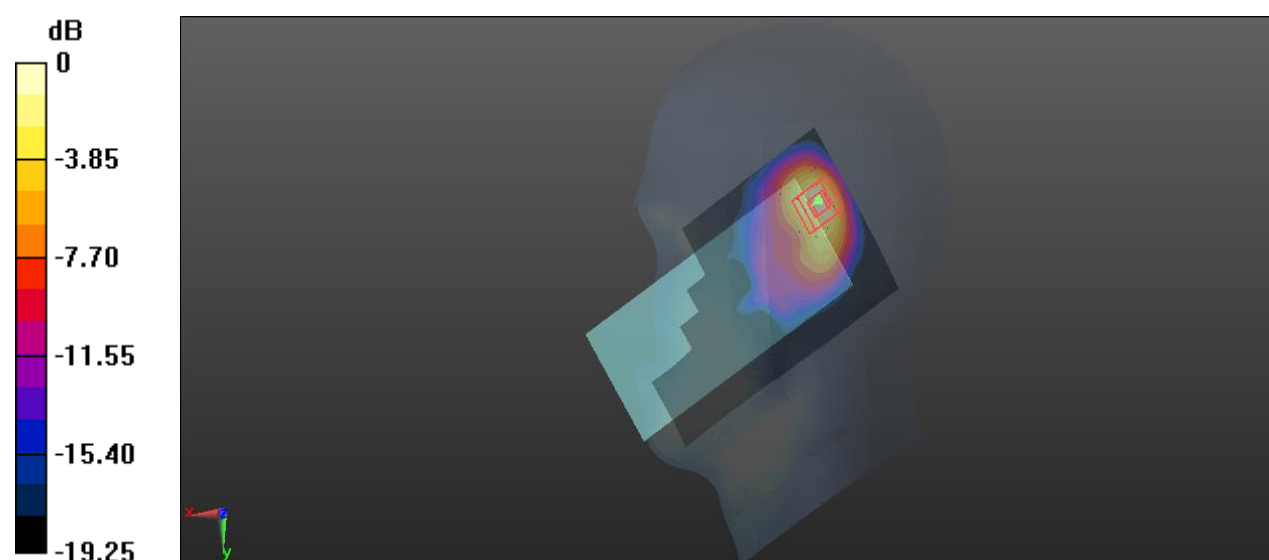
Ch1412/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.73 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 2.25 W/kg

SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.485 W/kg

Maximum value of SAR (measured) = 1.31 W/kg



0 dB = 1.31 W/kg

Meas.64-Body Plane with Back Side 15mm on 106 Channel in IEEE802.11ac80 mode with Antenna2

Date: 2022.03.31

Communication System Band: WLAN(ac) 80MHz; Frequency: 5530 MHz; Duty Cycle: 1:1.138

Medium parameters used (interpolated): $f = 5530$ MHz; $\sigma = 4.949$ S/m; $\epsilon_r = 36.005$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.2 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(4.81, 4.81, 4.81); Calibrated: 2021.12.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch106/Area Scan (91x171x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.851 W/kg

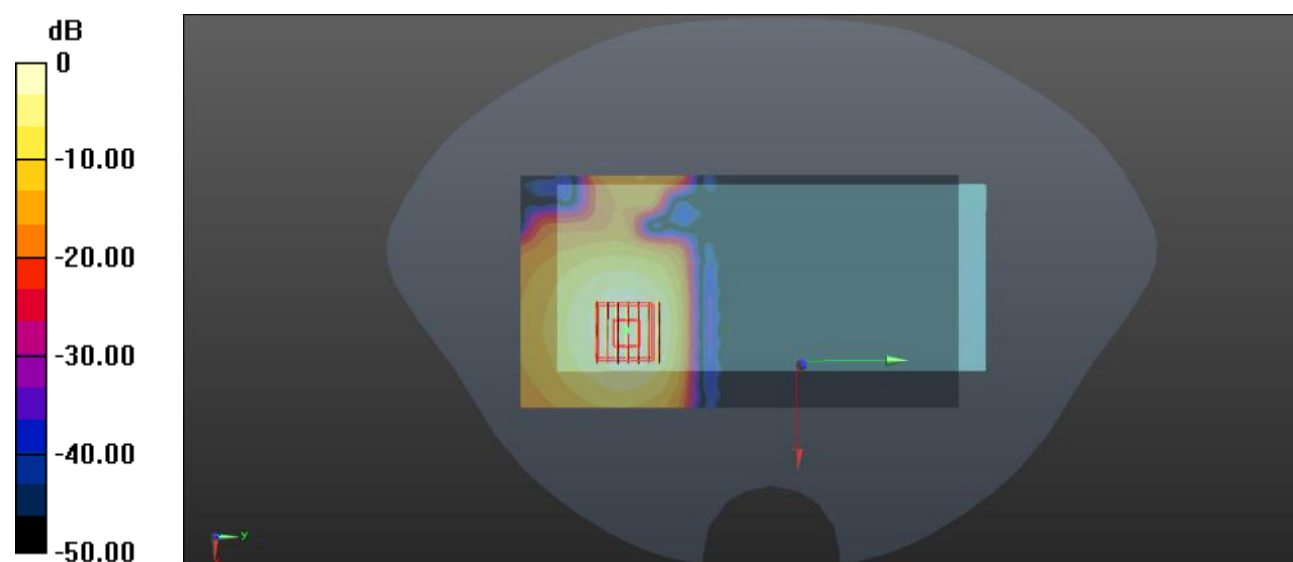
Ch106/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

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

Peak SAR (extrapolated) = 1.67 W/kg

SAR(1 g) = 0.452 W/kg; SAR(10 g) = 0.174 W/kg

Maximum value of SAR (measured) = 0.851 W/kg



0 dB = 0.851 W/kg

Meas.65 Body Plane with Left Edge 0mm on 106 Channel in IEEE802.11ac80 mode with Antenna2

Date: 2022.03.31

Communication System Band: WLAN(ac) 80MHz; Frequency: 5530 MHz;Duty Cycle: 1:1.138

Medium parameters used: $f = 5530$ MHz; $\sigma = 4.949$ S/m; $\epsilon_r = 36.005$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.2 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(4.81, 4.81, 4.81); Calibrated: 2021.12.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch106/Area Scan (81x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 18.3 W/kg

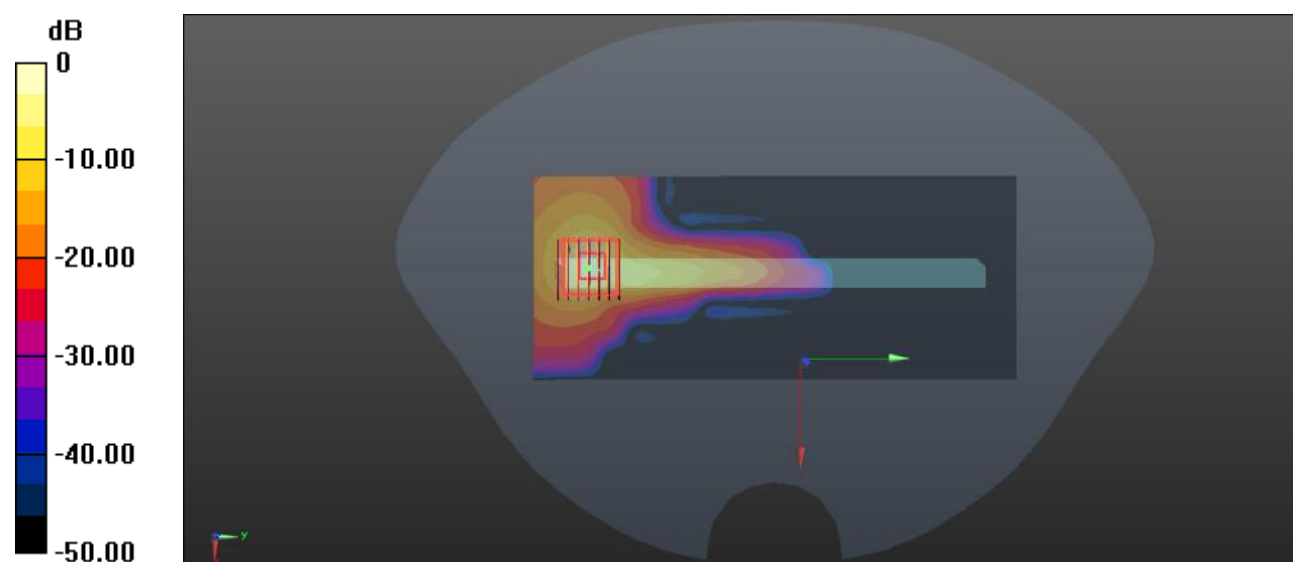
Ch106/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.983 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 44.6 W/kg

SAR(1 g) = 6.26 W/kg; SAR(10 g) = 1.38 W/kg

Maximum value of SAR (measured) = 18.8 W/kg



0 dB = 18.8 W/kg

ANNEX D EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2230252-AW.pdf”.

ANNEX E SAR TEST SETUP PHOTOS

Please refer the document “BL-SZ2230252-AS.pdf”.

ANNEX F CALIBRATION REPORT

ANNEX G Please refer the document “CALIBRATION REPORT.pdf”.

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