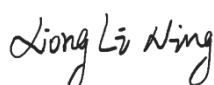


TEST REPORT

Applicant: Shanghai Xiangcheng Communication Technology Co., Ltd
Address: 6th Floor, Building 10, No.3000, Longdong Avenue, Pudong New District, Shanghai
Equipment Type: Intelligent Mobile Data Capture Terminal
Model Name: Ranger1 K/G (refer to section 2.3)
Brand Name: N/A
FCC ID: 2A2UU-MF-T0523
Test Standard: FCC 47 CFR Part 2.1093 (refer to section 3.1)
Maximum SAR: Head (1 g@0mm): 0.57 W/kg
Body-worn (1 g@10mm): 1.08 W/kg
Hotspot (1 g@10mm): 1.08 W/kg
Extremity (10 g@0mm): 2.12 W/kg
Sample Arrival Date: Mar. 06, 2024
Test Date: Mar. 11, 2024 - Mar. 20, 2024
Date of Issue: May 22, 2024

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Xiong Lining**Checked by:** Xu Rui**Approved by:** Tolan Tu
(Testing Director)

Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>May 22, 2024</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

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

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☒ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☐ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

1.3 Test Environment Condition

Ambient Temperature	18°C to 25°C
Ambient Relative Humidity	30% to 70%

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Shanghai Xiangcheng Communication Technology Co., Ltd
Address	6th Floor, Building 10, No.3000, Longdong Avenue, Pudong New District, Shanghai

2.2 Manufacturer Information

Manufacturer	Shanghai Xiangcheng Communication Technology Co., Ltd
Address	6th Floor, Building 10, No.3000, Longdong Avenue, Pudong New District, Shanghai

2.3 General Description for Equipment under Test (EUT)

EUT Name	Intelligent Mobile Data Capture Terminal
Model Name Under Test	Ranger1 K/G
Series Model Name	S45 GRIP, T0523, TP60 S
Description of Model name differentiation	All models are same with electrical parameters and internal circuit structure, but only differ in model name. (this information provided by the applicant)
Hardware Version	V1.1
Software Version	1.0
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Ancillary Equipment

Ancillary Equipment 1	Battery 1	
	Brand Name	N/A
	Model No.	F50053MA
	Serial No.	N/A
	Capacity	5100 mAh/19.635Wh
	Rated Voltage	3.85 V
	Limit Charge Voltage	4.4 V
	Manufacturer	Guangdong Fenghua New Energy Co., Ltd.
Ancillary Equipment 2	Battery 2	
	Brand Name	N/A
	Model No.	ZWD251216VT
	Serial No.	N/A
	Capacity	30 mAh/ 0.114Wh
	Rated Voltage	3.8 V

	Limit Charge Voltage	4.38 V
Note 1: Letter in () means plug type.		
Note 2: All batteries are tested, only the worst data of F50053MA shown in this report.		

2.5 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EDGE 850/1900 MHz 3G Network WCDMA/HSDPA/HSUPA Band 2/4/5 4G Network LTE FDD Band 2/4/5/7 LTE TDD Band 38/41 Bluetooth (BR+EDR+BLE) 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40) 5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80) U-NII-1/2A/3, GPS, GLONASS, BDS, Galileo
-----------------------------------	---

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 38	TX: 2570 ~ 2620 MHz	RX: 2570 ~ 2620 MHz
	LTE Band 41	TX: 2535 ~ 2655 MHz	RX: 2535 ~ 2655 MHz
	802.11b/g /n(HT20/HT40)	2412 ~ 2462 MHz	
	802.11a/ /n(HT20/HT40) /ac(VHT20/VHT40 /VHT80)	5150 ~ 5250 MHz	
		5250 ~ 5350 MHz	
		5725 ~ 5850 MHz	
Bluetooth	2402 ~ 2480 MHz		
Antenna Type	WWAN: FPC Antenna WLAN: Ceramic Antenna Bluetooth: Ceramic Antenna		
DTM	N/A		
Hotspot Function	Support		
Power Reduction	Support		
Exposure Category	General Population/Uncontrolled exposure		
Product Type	Portable Device		
EUT Type	☒ Production unit		☐ Identical prototype

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	IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate(SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
4	KDB 447498 D04 v01	447498 D04 Interim General RF Exposure Guidance v01
5	KDB 941225 D01 v03r01	3G SAR MEAUREMENT PROCEDURES
6	KDB 941225 D05 v02r05	SAR Evaluation Considerations for LTE Devices
7	KDB 941225 D06 v02r01	SAR EVALUATION PROCEDURES FOR PORTABLE DEVICES WITH WIRELESS ROUTER CAPABILITIES
8	KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
9	KDB 865664 D02 v01r02	RF Exposure Reporting
10	KDB 648474 D04 v01r03	SAR EVALUATION CONSIDERATIONS FOR WIRELESS HANDSETS
11	KDB 248227 D01 v02r02	SAR GUIDANCE FOR IEEE 802.11 (Wi-Fi) TRANSMITTERS

3.2 Device Category and SAR Limit

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

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

Table of Exposure Limits:

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

NOTE:

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

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

3.3 Test Result Summary

3.3.1 Highest SAR Values

Equipment Class	Band	Maximum Scaled SAR (W/kg)				Maximum Report SAR (W/kg)							
		Head (0mm)	Body-worn (10mm)	Hotspot (10mm)	Extremity (0mm)	Head (0mm)	Body-worn (10mm)	Hotspot (10mm)	Extremity (0mm)				
		1g SAR			10g SAR	1g SAR			10g SAR				
PCE	GSM 850	0.45	0.49	0.49	0.77	0.57	1.08	1.08	2.12				
	GSM 1900	0.48	0.36	0.36	1.62								
	WCDMA Band 2	0.57	0.47	0.47	1.64								
	WCDMA Band 4	0.43	0.36	0.36	1.58								
	WCDMA Band 5	0.14	0.25	0.25	0.39								
	LTE Band 2	0.47	0.54	0.54	1.78								
	LTE Band 4	0.33	0.53	0.53	1.98								
	LTE Band 5	0.20	0.27	0.27	0.42								
	LTE Band 7	0.11	1.07	1.07	1.82								
	LTE Band 38	0.04	1.08	1.08	2.12								
	LTE Band 41	0.03	0.89	0.89	1.37								
DTS	2.4G WLAN	0.44	0.36	0.36	0.63								
NII	5.2G WLAN	/	/	0.09	/								
	5.3G WLAN	0.16	0.03	/	0.10								
	5.8G WLAN	0.33	0.16	0.16	/								
DSS	Bluetooth	0.06	0.12	0.12	0.06								
Limit (W/kg)		1.6			4.0					1.6			4.0
Verdict		PASS											

3.4 Test Uncertainty

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

The maximum 1 g SAR for the EUT in this report is 1.08 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 2.12 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

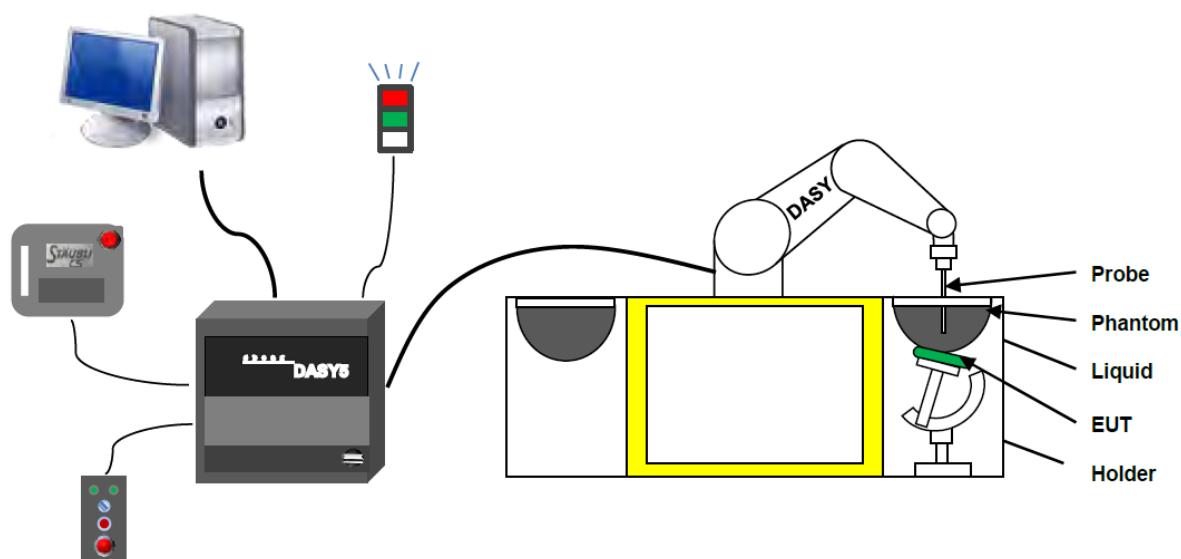
$$\text{SAR} = \frac{\sigma E^2}{\rho}$$

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:7506 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

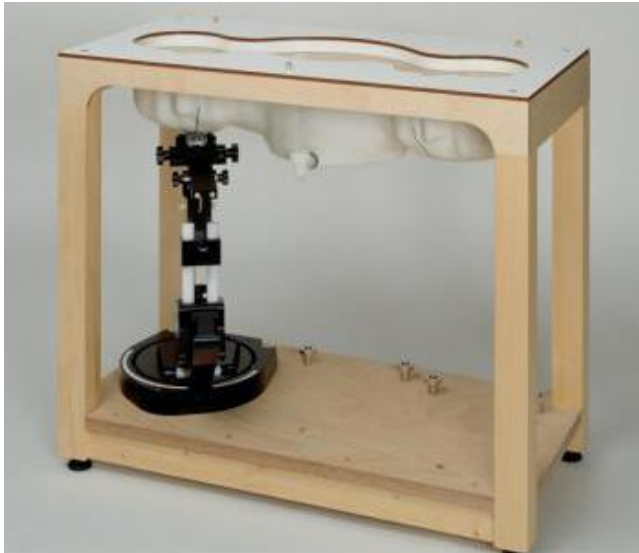
The data acquisition electronics (DAE) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through 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 head
- Right head
- Flat phantom

Photo of Phantom SN1859



Serial Number	Material	Length	Height
SN 1859 SAM2	Vinylester, glass fiber reinforced	1000	500

4.2.6 Device Holder

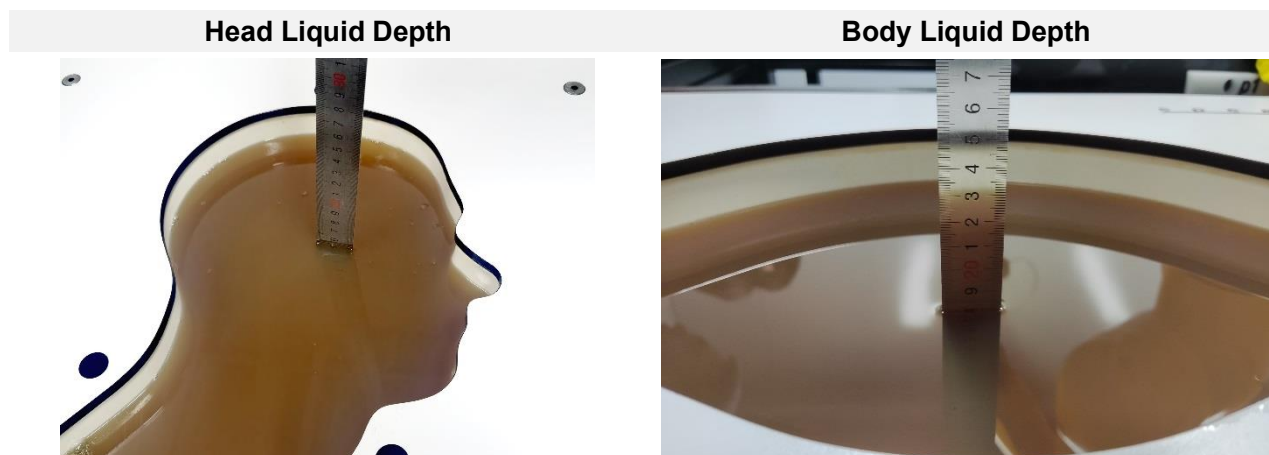
The DASY5 device holder has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of 65° . The bottom plate contains three pair of bolts for 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.

TSL	Manufacturer / Model	Freq Range (MHz)	Main Ingredients
Head WideBand	SPEAG HBBL600-10000V6	600-10000	Ethenediol, Sodium petroleum sulfonate, Hexylene Glycol / 2-Methyl-pentane-2.4-diol, Alkoxylated alcohol

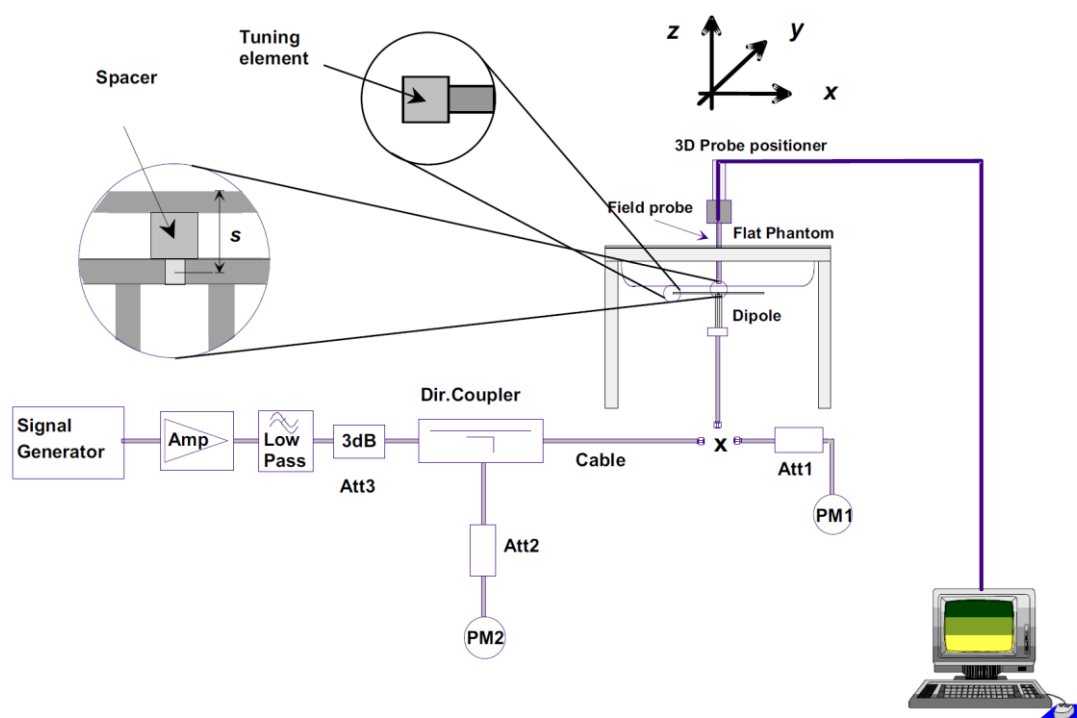
5 SYSTEM VERIFICATION

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

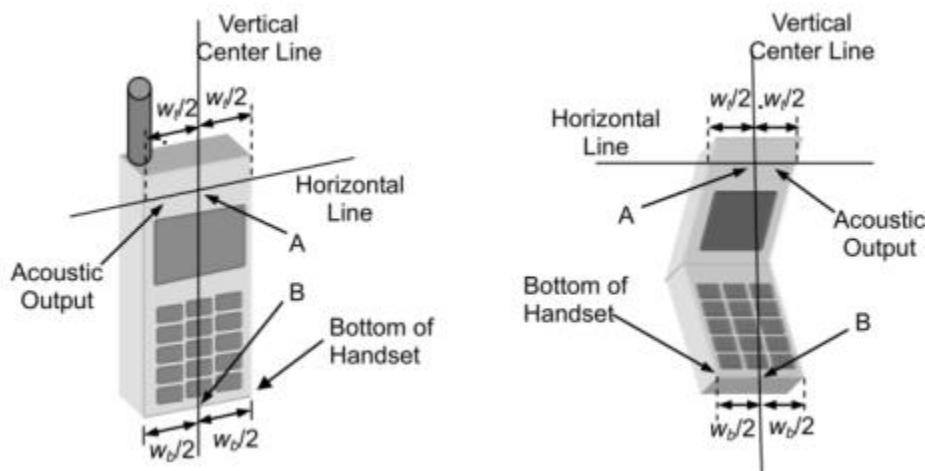
According to KDB 648474 D04 Handset, handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

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.

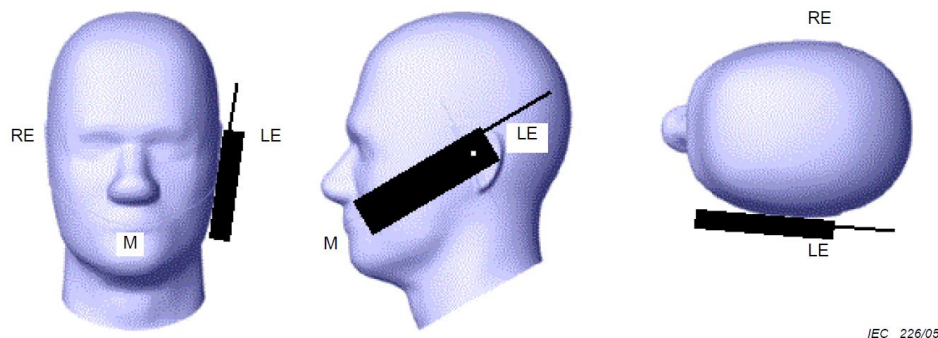
6.1.1 Two Imaginary Lines on the Handset

- 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.

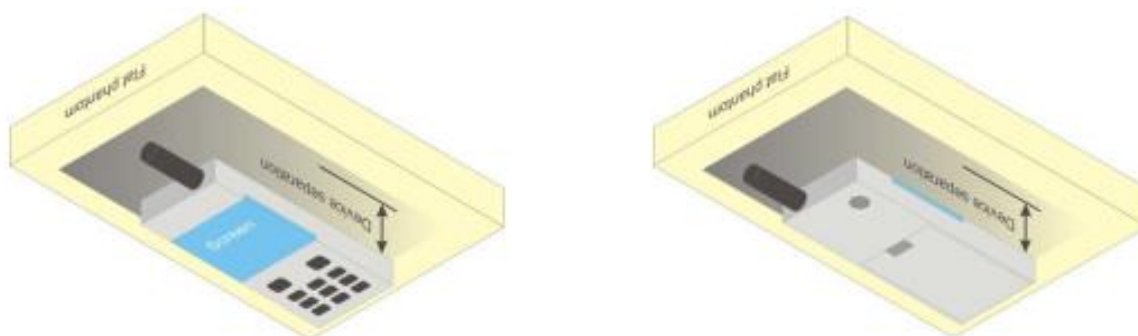


6.2 Body-worn Position Conditions

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.

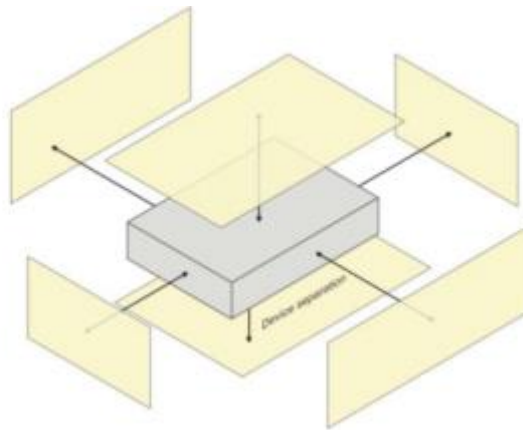
Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics.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



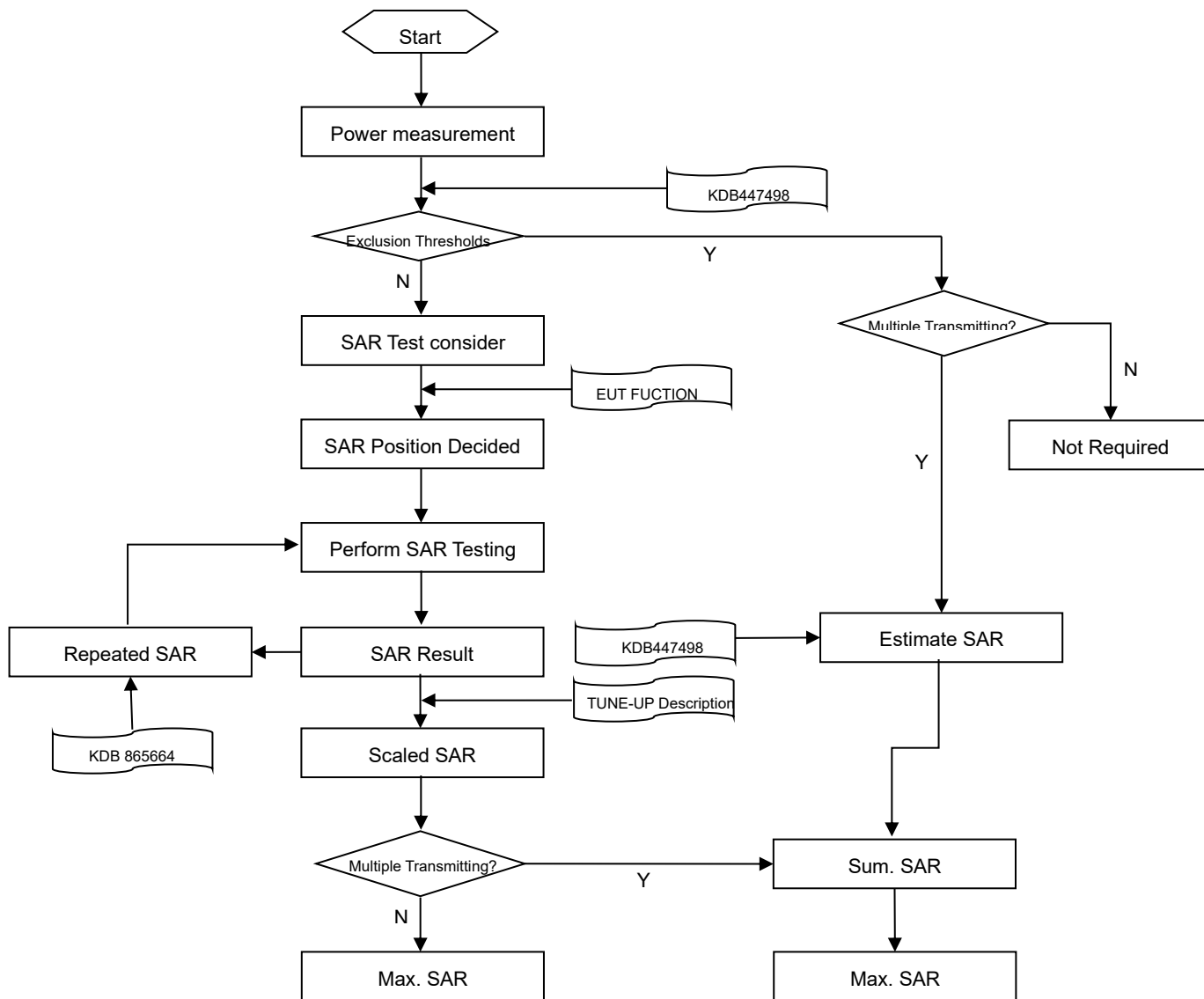
6.4 Product Specific 10g Exposure Consideration

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	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location			30°±1°	20°±1°
Maximum area scan spatial resolution: Δx Area , Δy Area			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3–4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
			When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: Δx Zoom , Δy Zoom			≤ 2 GHz: ≤ 8 mm 2 –3 GHz: ≤ 5 mm*	3–4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: Δz Zoom (n)		≤ 5 mm	3–4 GHz: ≤ 4 mm
				4–5 GHz: ≤ 3 mm
				5–6 GHz: ≤ 2 mm
	graded grid	Δz Zoom (1): between 1st two points closest to phantom surface	≤ 4 mm	3–4 GHz: ≤ 3 mm
				4–5 GHz: ≤ 2.5 mm
		Δz Zoom (n>1): between subsequent points	≤ 1.5·Δz Zoom (n-1)	
Minimum zoom scan volume	x, y, z		≥30 mm	3–4 GHz: ≥ 28 mm
				4–5 GHz: ≥ 25 mm
				5–6 GHz: ≥ 22 mm

Note:

1. δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.
2. * When zoom scan is required and the reported SAR from the area scan based 1 g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

7.3 Measurement Procedure

The following steps are used for each test position

- a. Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
- b. Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- c. Measurement of the SAR distribution with a grid of 8 to 16mm * 8 to 16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme.
- d. Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 * 32 mm is assessed by measuring 5 or 8 * 5 or 8*4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

7.4 Area & Zoom Scan Procedure

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

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

8 CONDUCTED RF OUPUT POWER

8.1 GSM

Please refer the document “BL-SZ2430302-AP Power List.pdf”.

8.2 WCDMA

Please refer the document “BL-SZ2430302-AP Power List.pdf”.

8.3 LTE

Please refer the document “BL-SZ2430302-AP Power List.pdf”.

8.4 WIFI

8.4.1 2.4G WIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	19.31	20.00	Yes
		6	2437	19.33	20.00	Yes
		11	2462	19.53	20.00	Yes
	802.11g	1	2412	16.79	18.00	No
		6	2437	17.36	18.00	No
		11	2462	17.15	18.00	No
	802.11n(HT20)	1	2412	15.79	17.00	No
		6	2437	17.23	18.00	No
		11	2462	16.58	18.00	No
	802.11n(HT40)	3	2422	13.33	15.00	No
		6	2437	15.27	17.00	No
		9	2452	13.78	15.00	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) 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.
- 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 = $0.441 * (63.10\text{mW}/100.00\text{mW}) = 0.278$ W/Kg, so 2.4G OFDM SAR test is not required.

8.4.2 5G WIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	13.31	15.00	No
		44	5220	11.80	13.00	No
		48	5240	11.73	13.00	No
	802.11n(HT20)	36	5180	13.68	15.00	No
		44	5220	11.68	13.00	No
		48	5240	13.10	15.00	No
	802.11n(HT40)	38	5190	14.81	15.00	No
		46	5230	13.26	15.00	No
	802.11ac(VHT20)	36	5180	13.15	15.00	No
		44	5220	12.18	14.00	No
		48	5240	12.10	14.00	No
	802.11ac(VHT40)	38	5190	14.72	15.00	No
		46	5230	13.26	15.00	No
	802.11ac(VHT80)	42	5210	13.61	15.00	Yes
5.3 (5.25~5.35)	802.11a	52	5260	11.90	13.00	No
		60	5300	11.09	13.00	No
		64	5320	11.04	13.00	No
	802.11n(HT20)	52	5260	12.47	14.00	No
		60	5300	11.68	13.00	No
		64	5320	11.72	13.00	No
	802.11n(HT40)	54	5270	13.43	15.00	No
		62	5310	12.60	14.00	No
	802.11ac(VHT20)	52	5260	11.89	13.00	No
		60	5300	11.07	13.00	No
		64	5320	11.17	13.00	No
	802.11ac(VHT40)	54	5270	13.00	15.00	No
		62	5310	12.22	14.00	No
	802.11ac(VHT80)	58	5290	13.32	15.00	Yes
5.8 (5.725~5.850)	802.11a	149	5745	10.01	11.00	No
		157	5785	9.90	11.00	No
		165	5825	11.44	13.00	No
	802.11n(HT20)	149	5745	10.49	11.00	No
		157	5785	10.36	11.00	No
		165	5825	12.05	13.00	No
	802.11n(HT40)	151	5755	11.47	13.00	No
		159	5795	11.48	13.00	No

	802.11ac(VHT20)	149	5745	10.02	11.00	No
		157	5785	9.88	11.00	No
		165	5825	11.46	13.00	No
	802.11ac(VHT40)	151	5755	10.91	11.00	No
		159	5795	10.95	11.00	No
	802.11ac(VHT80)	155	5775	12.03	13.00	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.

8.5 Bluetooth

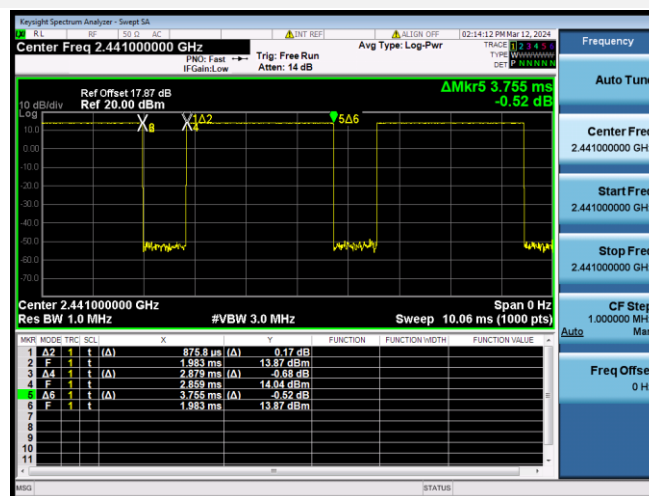
Mode	GFSK			$\pi/4$ -DQPSK		
Channel	0	39	78	0	39	78
Frequency (MHz)	2402	2441	2480	2402	2441	2480
Average Power (dBm)	13.74	13.32	12.08	11.73	10.63	8.73
Tune-Up Limit (dBm)	14.00	14.00	14.00	12.00	12.00	10.00
SAR Test Require	YES	YES	YES	NO	NO	NO
Mode	8-DPSK			/		
Channel	0	39	78	/	/	/
Frequency (MHz)	2402	2441	2480	/	/	/
Average Power (dBm)	11.73	10.65	8.70	/	/	/
Tune-Up Limit (dBm)	12.00	12.00	10.00	/	/	/
SAR Test Require	NO	NO	NO	/	/	/
Mode	BLE-1Mbps			BLE-2Mbps		
Channel	0	19	39	1	19	38
Frequency (MHz)	2402	2440	2480	2404	2440	2478
Average Power (dBm)	-2.0	0.02	-0.35	-0.16	0.02	-0.17
Tune-Up Limit (dBm)	1.00	1.00	1.00	1.00	1.00	1.00
SAR Test Require	NO	NO	NO	NO	NO	NO

Note 1: Since bluetooth BR mode is the maximum output power mode, SAR measurements were performed with test software using DH5 modulation, and SAR measurement is not required for the EDR and LE. When the secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode.

Note: The Bluetooth duty cycle is 76.67 % 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

GFSK



9 TEST EXCLUSION CONSIDERATION

Please refer the document “BL-SZ2430302-AI EUT internal photo.pdf”.

Antenna	Front Side(mm)	Back Side(mm)	Left Edge(mm)	Right Edge(mm)	Top Edge(mm)	Bottom Edge(mm)
Ant.1	<25	<25	<25	<25	>25	<25
Ant.2	<25	<25	<25	>25	<25	>25

Note: 1.Per KDB 941225 D06,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.

10 TEST RESULT

10.1GSM 850

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune- power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head												
Ant.1	2slots	Left Cheek	0	251	848.8	0.07	0.247	31.81	33.00	1.315	0.325	/
Ant.1	2slots	Left Tilt	0	251	848.8	-0.01	0.162	31.81	33.00	1.315	0.213	/
Ant.1	2slots	Right Cheek	0	251	848.8	-0.08	0.343	31.81	33.00	1.315	0.451	1#
Ant.1	2slots	Right Tilt	0	251	848.8	-0.17	0.184	31.81	33.00	1.315	0.242	/
Body-Worn&Hotspot												
Ant.1	2slots	Front Side	10	251	848.8	0.09	0.245	31.81	33.00	1.315	0.322	/
Ant.1	2slots	Back Side	10	251	848.8	0.15	0.355	31.81	33.00	1.315	0.467	/
Ant.1	2slots	Left Edge	10	251	848.8	-0.03	0.369	31.81	33.00	1.315	0.485	2#
Ant.1	2slots	Right Edge	10	251	848.8	0.11	0.221	31.81	33.00	1.315	0.291	/
Ant.1	2slots	Bottom Edge	10	251	848.8	0.15	0.173	31.81	33.00	1.315	0.227	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.												

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune- power (dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
Extremity												
Ant.1	2slots	Front Side	0	251	848.8	-0.05	0.588	31.81	33.00	1.315	0.773	3#
Ant.1	2slots	Back Side	0	251	848.8	-0.06	0.402	31.81	33.00	1.315	0.529	/
Ant.1	2slots	Left Edge	0	251	848.8	0.04	0.271	31.81	33.00	1.315	0.356	/
Ant.1	2slots	Right Edge	0	251	848.8	-0.11	0.258	31.81	33.00	1.315	0.339	/
Ant.1	2slots	Bottom Edge	0	251	848.8	-0.15	0.428	31.81	33.00	1.315	0.563	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.												

10.2 GSM 1900

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune- power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head												
Ant.1	2slots	Left Cheek	0	512	1850.2	-0.10	0.404	29.24	30.00	1.191	0.481	4#
Ant.1	2slots	Left Tilt	0	512	1850.2	0.16	0.137	29.24	30.00	1.191	0.163	/
Ant.1	2slots	Right Cheek	0	512	1850.2	-0.19	0.191	29.24	30.00	1.191	0.227	/
Ant.1	2slots	Right Tilt	0	512	1850.2	-0.11	0.145	29.24	30.00	1.191	0.173	/
Body-Worn&Hotspot												
Ant.1	2slots	Front Side	10	512	1850.2	-0.06	0.303	29.24	30.00	1.191	0.361	5#
Ant.1	2slots	Back Side	10	512	1850.2	-0.05	0.176	29.24	30.00	1.191	0.210	/
Ant.1	2slots	Left Edge	10	512	1850.2	0.14	0.074	29.24	30.00	1.191	0.088	/
Ant.1	2slots	Right Edge	10	512	1850.2	0.03	0.282	29.24	30.00	1.191	0.336	/
Ant.1	2slots	Bottom Edge	10	512	1850.2	0.15	0.263	29.24	30.00	1.191	0.313	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.												

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune- power (dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
Extremity												
Ant.1	2slots	Front Side	0	512	1850.2	-0.03	1.360	29.24	30.00	1.191	1.620	6#
Ant.1	2slots	Back Side	0	512	1850.2	0.17	0.462	29.24	30.00	1.191	0.550	/
Ant.1	2slots	Left Edge	0	512	1850.2	-0.09	0.112	29.24	30.00	1.191	0.133	/
Ant.1	2slots	Right Edge	0	512	1850.2	-0.15	0.743	29.24	30.00	1.191	0.885	/
Ant.1	2slots	Bottom Edge	0	512	1850.2	-0.10	0.806	29.24	30.00	1.191	0.960	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.												

10.3WCDMA Band 2

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune- power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head												
Ant.1	RMC	Left Cheek	0	9400	1880	-0.08	0.513	23.01	23.50	1.119	0.574	7#
Ant.1	RMC	Left Tilt	0	9400	1880	0.11	0.183	23.01	23.50	1.119	0.205	/
Ant.1	RMC	Right Cheek	0	9400	1880	-0.06	0.223	23.01	23.50	1.119	0.250	/
Ant.1	RMC	Right Tilt	0	9400	1880	0.08	0.198	23.01	23.50	1.119	0.222	/
Body-Worn&Hotspot												
Ant.1	RMC	Front Side	10	9400	1880	-0.01	0.417	23.01	23.50	1.119	0.467	8#
Ant.1	RMC	Back Side	10	9400	1880	-0.06	0.385	23.01	23.50	1.119	0.431	/
Ant.1	RMC	Left Edge	10	9400	1880	-0.09	0.089	23.01	23.50	1.119	0.100	/
Ant.1	RMC	Right Edge	10	9400	1880	-0.06	0.363	23.01	23.50	1.119	0.406	/
Ant.1	RMC	Bottom Edge	10	9400	1880	0.11	0.365	23.01	23.50	1.119	0.408	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.												

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune- power (dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
Extremity												
Ant.1	RMC	Front Side	0	9400	1880	-0.18	1.470	23.01	23.50	1.119	1.645	9#
Ant.1	RMC	Back Side	0	9400	1880	-0.11	1.360	23.01	23.50	1.119	1.522	/
Ant.1	RMC	Left Edge	0	9400	1880	-0.02	0.107	23.01	23.50	1.119	0.120	/
Ant.1	RMC	Right Edge	0	9400	1880	0.05	0.665	23.01	23.50	1.119	0.744	/
Ant.1	RMC	Bottom Edge	0	9400	1880	0.01	0.752	23.01	23.50	1.119	0.841	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.												

10.4WCDMA Band 4

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune- power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head												
Ant.1	RMC	Left Cheek	0	1312	1712.4	0.03	0.347	22.58	23.50	1.236	0.429	10#
Ant.1	RMC	Left Tilt	0	1312	1712.4	0.10	0.148	22.58	23.50	1.236	0.183	/
Ant.1	RMC	Right Cheek	0	1312	1712.4	-0.15	0.186	22.58	23.50	1.236	0.230	/
Ant.1	RMC	Right Tilt	0	1312	1712.4	-0.09	0.171	22.58	23.50	1.236	0.211	/
Body-Worn&Hotspot												
Ant.1	RMC	Front Side	10	1312	1712.4	-0.01	0.288	22.58	23.50	1.236	0.356	11#
Ant.1	RMC	Back Side	10	1312	1712.4	-0.03	0.256	22.58	23.50	1.236	0.316	/
Ant.1	RMC	Left Edge	10	1312	1712.4	0.01	0.061	22.58	23.50	1.236	0.075	/
Ant.1	RMC	Right Edge	10	1312	1712.4	-0.12	0.203	22.58	23.50	1.236	0.251	/
Ant.1	RMC	Bottom Edge	10	1312	1712.4	-0.05	0.166	22.58	23.50	1.236	0.205	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.												

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune- power (dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
Extremity												
Ant.1	RMC	Front Side	0	1312	1712.4	0.08	1.280	22.58	23.50	1.236	1.582	12#
Ant.1	RMC	Back Side	0	1312	1712.4	-0.02	1.110	22.58	23.50	1.236	1.372	/
Ant.1	RMC	Left Edge	0	1312	1712.4	-0.03	0.239	22.58	23.50	1.236	0.295	/
Ant.1	RMC	Right Edge	0	1312	1712.4	-0.01	0.569	22.58	23.50	1.236	0.703	/
Ant.1	RMC	Bottom Edge	0	1312	1712.4	-0.10	0.440	22.58	23.50	1.236	0.544	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.												

10.5WCDMA Band 5

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune- power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head												
Ant.1	RMC	Left Cheek	0	4182	836.4	-0.07	0.083	22.25	23.50	1.334	0.111	/
Ant.1	RMC	Left Tilt	0	4182	836.4	-0.07	0.055	22.25	23.50	1.334	0.073	/
Ant.1	RMC	Right Cheek	0	4182	836.4	0.04	0.106	22.25	23.50	1.334	0.141	13#
Ant.1	RMC	Right Tilt	0	4182	836.4	-0.11	0.058	22.25	23.50	1.334	0.077	/
Body-Worn&Hotspot												
Ant.1	RMC	Front Side	10	4182	836.4	0.05	0.125	22.25	23.50	1.334	0.167	/
Ant.1	RMC	Back Side	10	4182	836.4	0.12	0.097	22.25	23.50	1.334	0.129	/
Ant.1	RMC	Left Edge	10	4182	836.4	0.11	0.186	22.25	23.50	1.334	0.248	14#
Ant.1	RMC	Right Edge	10	4182	836.4	-0.14	0.126	22.25	23.50	1.334	0.168	/
Ant.1	RMC	Bottom Edge	10	4182	836.4	-0.08	0.085	22.25	23.50	1.334	0.113	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.												

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune- power (dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
Extremity												
Ant.1	RMC	Front Side	0	4182	836.4	0.07	0.292	22.25	23.50	1.334	0.390	15#
Ant.1	RMC	Back Side	0	4182	836.4	-0.03	0.221	22.25	23.50	1.334	0.295	/
Ant.1	RMC	Left Edge	0	4182	836.4	0.00	0.150	22.25	23.50	1.334	0.200	/
Ant.1	RMC	Right Edge	0	4182	836.4	0.00	0.122	22.25	23.50	1.334	0.163	/
Ant.1	RMC	Bottom Edge	0	4182	836.4	-0.03	0.223	22.25	23.50	1.334	0.297	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.												

10.6LTE Band 2 (20MHz Bandwidth)

Antenna	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- power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head														
Ant.1	QPSK	Left Cheek	0	19100	1900	1	Mid	0.05	0.417	23.51	24.00	1.119	0.467	16#
Ant.1	QPSK	Left Tilt	0	19100	1900	1	Mid	0.05	0.177	23.51	24.00	1.119	0.198	/
Ant.1	QPSK	Right Cheek	0	19100	1900	1	Mid	-0.05	0.208	23.51	24.00	1.119	0.233	/
Ant.1	QPSK	Right Tilt	0	19100	1900	1	Mid	-0.10	0.214	23.51	24.00	1.119	0.239	/
Ant.1	QPSK	Left Cheek	0	19100	1900	50	Mid	-0.03	0.388	22.35	23.00	1.161	0.450	/
Ant.1	QPSK	Left Tilt	0	19100	1900	50	Mid	-0.04	0.151	22.35	23.00	1.161	0.175	/
Ant.1	QPSK	Right Cheek	0	19100	1900	50	Mid	0.00	0.183	22.35	23.00	1.161	0.212	/
Ant.1	QPSK	Right Tilt	0	19100	1900	50	Mid	0.09	0.180	22.35	23.00	1.161	0.209	/
Body-Worn&Hotspot														
Ant.1	QPSK	Front Side	10	19100	1900	1	Mid	-0.01	0.479	23.51	24.00	1.119	0.536	17#
Ant.1	QPSK	Back Side	10	19100	1900	1	Mid	0.08	0.406	23.51	24.00	1.119	0.454	/
Ant.1	QPSK	Left Edge	10	19100	1900	1	Mid	0.08	0.076	23.51	24.00	1.119	0.085	/
Ant.1	QPSK	Right Edge	10	19100	1900	1	Mid	-0.15	0.357	23.51	24.00	1.119	0.399	/
Ant.1	QPSK	Bottom Edge	10	19100	1900	1	Mid	0.15	0.360	23.51	24.00	1.119	0.403	/
Ant.1	QPSK	Front Side	10	19100	1900	50	Mid	0.09	0.404	22.35	23.00	1.161	0.469	/
Ant.1	QPSK	Back Side	10	19100	1900	50	Mid	-0.15	0.253	22.35	23.00	1.161	0.294	/
Ant.1	QPSK	Left Edge	10	19100	1900	50	Mid	-0.14	0.060	22.35	23.00	1.161	0.070	/
Ant.1	QPSK	Right Edge	10	19100	1900	50	Mid	0.08	0.289	22.35	23.00	1.161	0.336	/
Ant.1	QPSK	Bottom Edge	10	19100	1900	50	Mid	-0.13	0.312	22.35	23.00	1.161	0.362	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune- power (dBm)	Scaling Factor	10 g Scaled SAR (W/kg)	Meas. No.
Extremity														
Ant.1	QPSK	Front Side	0	19100	1900	1	Mid	-0.13	1.590	23.51	24.00	1.119	1.779	18#
Ant.1	QPSK	Back Side	0	19100	1900	1	Mid	0.10	1.310	23.51	24.00	1.119	1.466	/
Ant.1	QPSK	Left Edge	0	19100	1900	1	Mid	0.02	0.116	23.51	24.00	1.119	0.130	/
Ant.1	QPSK	Right Edge	0	19100	1900	1	Mid	0.03	0.772	23.51	24.00	1.119	0.864	/
Ant.1	QPSK	Bottom Edge	0	19100	1900	1	Mid	-0.03	0.866	23.51	24.00	1.119	0.969	/
Ant.1	QPSK	Front Side	0	19100	1900	50	Mid	-0.08	1.360	22.35	23.00	1.161	1.579	/
Ant.1	QPSK	Back Side	0	19100	1900	50	Mid	0.07	0.566	22.35	23.00	1.161	0.657	/
Ant.1	QPSK	Left Edge	0	19100	1900	50	Mid	-0.13	0.094	22.35	23.00	1.161	0.109	/
Ant.1	QPSK	Right Edge	0	19100	1900	50	Mid	0.12	0.666	22.35	23.00	1.161	0.773	/
Ant.1	QPSK	Bottom Edge	0	19100	1900	50	Mid	-0.01	0.765	22.35	23.00	1.161	0.888	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

10.7LTE Band 4 (20MHz Bandwidth)

Antenna	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- power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head														
Ant.1	QPSK	Left Cheek	0	20175	1732.5	1	Mid	-0.01	0.289	23.37	24.00	1.156	0.334	19#
Ant.1	QPSK	Left Tilt	0	20175	1732.5	1	Mid	0.07	0.074	23.37	24.00	1.156	0.086	/
Ant.1	QPSK	Right Cheek	0	20175	1732.5	1	Mid	0.01	0.146	23.37	24.00	1.156	0.169	/
Ant.1	QPSK	Right Tilt	0	20175	1732.5	1	Mid	-0.09	0.105	23.37	24.00	1.156	0.121	/
Ant.1	QPSK	Left Cheek	0	20175	1732.5	50	Mid	0.13	0.237	22.21	23.00	1.199	0.284	/
Ant.1	QPSK	Left Tilt	0	20175	1732.5	50	Mid	0.12	0.062	22.21	23.00	1.199	0.074	/
Ant.1	QPSK	Right Cheek	0	20175	1732.5	50	Mid	0.01	0.121	22.21	23.00	1.199	0.145	/
Ant.1	QPSK	Left Cheek	0	20175	1732.5	50	Mid	-0.04	0.086	22.21	23.00	1.199	0.103	/
Body-Worn&Hotspot														
Ant.1	QPSK	Front Side	10	20175	1732.5	1	Mid	-0.17	0.459	23.37	24.00	1.156	0.531	20#
Ant.1	QPSK	Back Side	10	20175	1732.5	1	Mid	-0.14	0.355	23.37	24.00	1.156	0.410	/
Ant.1	QPSK	Left Edge	10	20175	1732.5	1	Mid	-0.01	0.106	23.37	24.00	1.156	0.123	/
Ant.1	QPSK	Right Edge	10	20175	1732.5	1	Mid	-0.06	0.321	23.37	24.00	1.156	0.371	/
Ant.1	QPSK	Bottom Edge	10	20175	1732.5	1	Mid	-0.02	0.259	23.37	24.00	1.156	0.299	/
Ant.1	QPSK	Front Side	10	20175	1732.5	50	Mid	0.13	0.406	22.21	23.00	1.199	0.487	/
Ant.1	QPSK	Back Side	10	20175	1732.5	50	Mid	-0.04	0.265	22.21	23.00	1.199	0.318	/
Ant.1	QPSK	Left Edge	10	20175	1732.5	50	Mid	0.15	0.089	22.21	23.00	1.199	0.107	/
Ant.1	QPSK	Right Edge	10	20175	1732.5	50	Mid	0.06	0.263	22.21	23.00	1.199	0.315	/
Ant.1	QPSK	Bottom Edge	10	20175	1732.5	50	Mid	0.12	0.220	22.21	23.00	1.199	0.264	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune- power (dBm)	Scaling Factor	10 g Scaled SAR (W/kg)	Meas. No.
Extremity														
Ant.1	QPSK	Front Side	0	20175	1732.5	1	Mid	-0.17	1.710	23.37	24.00	1.156	1.977	21#
Ant.1	QPSK	Back Side	0	20175	1732.5	1	Mid	0.10	1.260	23.37	24.00	1.156	1.457	/
Ant.1	QPSK	Left Edge	0	20175	1732.5	1	Mid	0.12	0.277	23.37	24.00	1.156	0.320	/
Ant.1	QPSK	Right Edge	0	20175	1732.5	1	Mid	0.07	0.752	23.37	24.00	1.156	0.869	/
Ant.1	QPSK	Bottom Edge	0	20175	1732.5	1	Mid	0.04	0.671	23.37	24.00	1.156	0.776	/
Ant.1	QPSK	Front Side	0	20175	1732.5	50	Mid	0.11	1.470	22.21	23.00	1.199	1.763	/
Ant.1	QPSK	Back Side	0	20175	1732.5	50	Mid	-0.05	0.991	22.21	23.00	1.199	1.188	/
Ant.1	QPSK	Left Edge	0	20175	1732.5	50	Mid	-0.12	0.215	22.21	23.00	1.199	0.258	/
Ant.1	QPSK	Right Edge	0	20175	1732.5	50	Mid	0.05	0.648	22.21	23.00	1.199	0.777	/
Ant.1	QPSK	Bottom Edge	0	20175	1732.5	50	Mid	-0.04	0.588	22.21	23.00	1.199	0.705	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

10.8LTE Band 5 (10MHz Bandwidth)

Antenna	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- power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head														
Ant.1	QPSK	Left Cheek	0	20525	836.5	1	Mid	0.08	0.148	23.08	24.00	1.236	0.183	/
Ant.1	QPSK	Left Tilt	0	20525	836.5	1	Mid	-0.11	0.104	23.08	24.00	1.236	0.129	/
Ant.1	QPSK	Right Cheek	0	20525	836.5	1	Mid	0.06	0.161	23.08	24.00	1.236	0.199	22#
Ant.1	QPSK	Right Tilt	0	20525	836.5	1	Mid	0.07	0.101	23.08	24.00	1.236	0.125	/
Ant.1	QPSK	Left Cheek	0	20525	836.5	25	Mid	-0.03	0.123	22.01	23.00	1.256	0.154	/
Ant.1	QPSK	Left Tilt	0	20525	836.5	25	Mid	-0.06	0.082	22.01	23.00	1.256	0.103	/
Ant.1	QPSK	Right Cheek	0	20525	836.5	25	Mid	0.05	0.151	22.01	23.00	1.256	0.190	/
Ant.1	QPSK	Right Tilt	0	20525	836.5	25	Mid	0.01	0.084	22.01	23.00	1.256	0.106	/
Body-Worn&Hotspot														
Ant.1	QPSK	Front Side	10	20525	836.5	1	Mid	0.09	0.155	23.08	24.00	1.236	0.192	/
Ant.1	QPSK	Back Side	10	20525	836.5	1	Mid	0.00	0.088	23.08	24.00	1.236	0.109	/
Ant.1	QPSK	Left Edge	10	20525	836.5	1	Mid	0.06	0.215	23.08	24.00	1.236	0.266	23#
Ant.1	QPSK	Right Edge	10	20525	836.5	1	Mid	-0.08	0.148	23.08	24.00	1.236	0.183	/
Ant.1	QPSK	Bottom Edge	10	20525	836.5	1	Mid	-0.07	0.099	23.08	24.00	1.236	0.122	/
Ant.1	QPSK	Front Side	10	20525	836.5	25	Mid	0.03	0.127	22.01	23.00	1.256	0.160	/
Ant.1	QPSK	Back Side	10	20525	836.5	25	Mid	-0.15	0.072	22.01	23.00	1.256	0.090	/
Ant.1	QPSK	Left Edge	10	20525	836.5	25	Mid	0.00	0.183	22.01	23.00	1.256	0.230	/
Ant.1	QPSK	Right Edge	10	20525	836.5	25	Mid	-0.01	0.122	22.01	23.00	1.256	0.153	/
Ant.1	QPSK	Bottom Edge	10	20525	836.5	25	Mid	0.04	0.086	22.01	23.00	1.256	0.108	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune- power (dBm)	Scaling Factor	10 g Scaled SAR (W/kg)	Meas. No.
Extremity														
Ant.1	QPSK	Front Side	0	20525	836.5	1	Mid	0.10	0.339	23.08	24.00	1.236	0.419	24#
Ant.1	QPSK	Back Side	0	20525	836.5	1	Mid	-0.08	0.227	23.08	24.00	1.236	0.281	/
Ant.1	QPSK	Left Edge	0	20525	836.5	1	Mid	-0.05	0.178	23.08	24.00	1.236	0.220	/
Ant.1	QPSK	Right Edge	0	20525	836.5	1	Mid	-0.14	0.139	23.08	24.00	1.236	0.172	/
Ant.1	QPSK	Bottom Edge	0	20525	836.5	1	Mid	-0.14	0.245	23.08	24.00	1.236	0.303	/
Ant.1	QPSK	Front Side	0	20525	836.5	25	Mid	-0.13	0.286	22.01	23.00	1.256	0.359	/
Ant.1	QPSK	Back Side	0	20525	836.5	25	Mid	-0.02	0.175	22.01	23.00	1.256	0.220	/
Ant.1	QPSK	Left Edge	0	20525	836.5	25	Mid	0.09	0.151	22.01	23.00	1.256	0.190	/
Ant.1	QPSK	Right Edge	0	20525	836.5	25	Mid	0.11	0.115	22.01	23.00	1.256	0.144	/
Ant.1	QPSK	Bottom Edge	0	20525	836.5	25	Mid	0.14	0.214	22.01	23.00	1.256	0.269	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

10.9LTE Band 7 (20MHz Bandwidth)

Antenna	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- power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head														
Ant.1	QPSK	Left Cheek	0	21100	2535	1	Mid	0.07	0.082	20.82	22.00	1.312	0.108	25#
Ant.1	QPSK	Left Tilt	0	21100	2535	1	Mid	0.13	0.053	20.82	22.00	1.312	0.070	/
Ant.1	QPSK	Right Cheek	0	21100	2535	1	Mid	-0.13	0.039	20.82	22.00	1.312	0.051	/
Ant.1	QPSK	Right Tilt	0	21100	2535	1	Mid	0.05	0.048	20.82	22.00	1.312	0.063	/
Ant.1	QPSK	Left Cheek	0	21100	2535	50	Mid	0.02	0.063	19.85	21.00	1.303	0.082	/
Ant.1	QPSK	Left Tilt	0	21100	2535	50	Mid	0.04	0.039	19.85	21.00	1.303	0.051	/
Ant.1	QPSK	Right Cheek	0	21100	2535	50	Mid	-0.12	0.011	19.85	21.00	1.303	0.014	/
Ant.1	QPSK	Right Tilt	0	21100	2535	50	Mid	0.03	0.038	19.85	21.00	1.303	0.050	/
Body-Worn&Hotspot														
Ant.1	QPSK	Front Side	10	21100	2535	1	Mid	-0.04	0.210	20.82	22.00	1.312	0.276	/
Ant.1	QPSK	Back Side	10	21100	2535	1	Mid	0.10	0.196	20.82	22.00	1.312	0.257	/
Ant.1	QPSK	Left Edge	10	21100	2535	1	Mid	-0.10	0.032	20.82	22.00	1.312	0.042	/
Ant.1	QPSK	Right Edge	10	21100	2535	1	Mid	-0.12	0.116	20.82	22.00	1.312	0.152	/
Ant.1	QPSK	Bottom Edge	10	21100	2535	1	Mid	-0.02	0.818	20.82	22.00	1.312	1.073	26#
Ant.1	QPSK	Front Side	10	21100	2535	50	Mid	-0.09	0.169	19.85	21.00	1.303	0.220	/
Ant.1	QPSK	Back Side	10	21100	2535	50	Mid	0.02	0.149	19.85	21.00	1.303	0.194	/
Ant.1	QPSK	Left Edge	10	21100	2535	50	Mid	0.11	0.027	19.85	21.00	1.303	0.035	/
Ant.1	QPSK	Right Edge	10	21100	2535	50	Mid	0.05	0.093	19.85	21.00	1.303	0.121	/
Ant.1	QPSK	Bottom Edge	10	21100	2535	50	Mid	-0.07	0.631	19.85	21.00	1.303	0.822	/
Ant.1	QPSK	Bottom Edge	10	20850	2510	1	Low	0.08	0.767	20.62	22.00	1.374	1.054	/
Ant.1	QPSK	Bottom Edge	10	21350	2560	1	Mid	0.07	0.723	20.68	22.00	1.355	0.980	/
Ant.1	QPSK	Bottom Edge	10	20850	2510	50	Mid	-0.10	0.742	19.61	21.00	1.377	1.022	/
Ant.1	QPSK	Bottom Edge	10	21350	2560	50	Mid	0.07	0.682	19.84	21.00	1.306	0.891	/
Ant.1	QPSK	Bottom Edge	10	21100	2535	100	Low	0.08	0.571	19.85	21.00	1.303	0.744	/
Body-Worn&Hotspot-Repeated SAR														
Ant.1	QPSK	Bottom Edge	10	21100	2535	1	Mid	0.06	0.812	20.82	22.00	1.312	1.065	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune- power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Extremity														
Ant.1	QPSK	Front Side	0	21100	2535	1	Mid	0.13	0.430	20.82	22.00	1.312	0.564	/
Ant.1	QPSK	Back Side	0	21100	2535	1	Mid	0.15	0.422	20.82	22.00	1.312	0.554	/
Ant.1	QPSK	Left Edge	0	21100	2535	1	Mid	-0.15	0.047	20.82	22.00	1.312	0.062	/
Ant.1	QPSK	Right Edge	0	21100	2535	1	Mid	-0.15	0.157	20.82	22.00	1.312	0.206	/
Ant.1	QPSK	Bottom Edge	0	21100	2535	1	Mid	-0.05	1.390	20.82	22.00	1.312	1.824	27#
Ant.1	QPSK	Front Side	0	21100	2535	50	Mid	0.13	0.345	19.85	21.00	1.303	0.450	/
Ant.1	QPSK	Back Side	0	21100	2535	50	Mid	-0.08	0.328	19.85	21.00	1.303	0.427	/
Ant.1	QPSK	Left Edge	0	21100	2535	50	Mid	-0.01	0.037	19.85	21.00	1.303	0.048	/
Ant.1	QPSK	Right Edge	0	21100	2535	50	Mid	0.09	0.124	19.85	21.00	1.303	0.162	/
Ant.1	QPSK	Bottom Edge	0	21100	2535	50	Mid	-0.04	1.060	19.85	21.00	1.303	1.381	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

10.10 LTE Band 38 (20MHz Bandwidth)

Antenna	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- power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head														
Ant.1	QPSK	Left Cheek	0	38150	2610	1	Mid	0.08	0.037	24.61	25.00	1.094	0.040	28#
Ant.1	QPSK	Left Tilt	0	38150	2610	1	Mid	-0.08	0.031	24.61	25.00	1.094	0.034	/
Ant.1	QPSK	Right Cheek	0	38150	2610	1	Mid	-0.13	0.023	24.61	25.00	1.094	0.025	/
Ant.1	QPSK	Right Tilt	0	38150	2610	1	Mid	0.05	0.021	24.61	25.00	1.094	0.023	/
Ant.1	QPSK	Left Cheek	0	38150	2610	50	Mid	-0.07	0.032	23.31	24.00	1.172	0.038	/
Ant.1	QPSK	Left Tilt	0	38150	2610	50	Mid	-0.12	0.025	23.31	24.00	1.172	0.029	/
Ant.1	QPSK	Right Cheek	0	38150	2610	50	Mid	0.02	0.019	23.31	24.00	1.172	0.022	/
Ant.1	QPSK	Right Tilt	0	38150	2610	50	Mid	0.03	0.017	23.31	24.00	1.172	0.020	/
Body-Worn&Hotspot														
Ant.1	QPSK	Front Side	10	38150	2610	1	Mid	0.06	0.214	24.61	25.00	1.094	0.234	/
Ant.1	QPSK	Back Side	10	38150	2610	1	Mid	-0.15	0.335	24.61	25.00	1.094	0.366	/
Ant.1	QPSK	LeftEdge	10	38150	2610	1	Mid	-0.15	0.055	24.61	25.00	1.094	0.060	/
Ant.1	QPSK	Right Edge	10	38150	2610	1	Mid	-0.10	0.103	24.61	25.00	1.094	0.113	/
Ant.1	QPSK	Bottom Edge	10	38150	2610	1	Mid	-0.16	0.988	24.61	25.00	1.094	1.081	29#
Ant.1	QPSK	Front Side	10	38150	2610	50	Mid	0.09	0.181	23.31	24.00	1.172	0.212	/
Ant.1	QPSK	Back Side	10	38150	2610	50	Mid	-0.07	0.267	23.31	24.00	1.172	0.313	/
Ant.1	QPSK	Left Edge	10	38150	2610	50	Mid	0.09	0.036	23.31	24.00	1.172	0.042	/
Ant.1	QPSK	Right Edge	10	38150	2610	50	Mid	-0.05	0.085	23.31	24.00	1.172	0.100	/
Ant.1	QPSK	Bottom Edge	10	38150	2610	50	Mid	0.05	0.847	23.31	24.00	1.172	0.993	/
Ant.1	QPSK	Bottom Edge	10	37850	2580	1	Mid	0.01	0.861	24.50	25.00	1.122	0.966	/
Ant.1	QPSK	Bottom Edge	10	38000	2595	1	Mid	0.13	0.911	24.58	25.00	1.102	1.004	/
Ant.1	QPSK	Bottom Edge	10	37850	2580	50	Mid	-0.03	0.781	23.27	24.00	1.183	0.924	/
Ant.1	QPSK	Bottom Edge	10	38000	2595	50	Mid	-0.02	0.806	23.28	24.00	1.180	0.951	/
Ant.1	QPSK	Bottom Edge	10	38150	2610	100	Low	-0.03	0.634	23.26	24.00	1.186	0.752	/
Body-Worn&Hotspot-Repeated SAR														
Ant.1	QPSK	Bottom Edge	10	38150	2610	1	Mid	0.12	0.967	24.61	25.00	1.094	1.058	/
Ant.1	QPSK	Bottom Edge	10	38000	2595	1	Mid	-0.03	0.902	24.58	25.00	1.102	0.994	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune- power (dBm)	Scaling Factor	10 g Scaled SAR (W/kg)	Meas. No.
Extremity														
Ant.1	QPSK	Front Side	0	38150	2610	1	Mid	0.02	0.571	24.61	25.00	1.094	0.625	/
Ant.1	QPSK	Back Side	0	38150	2610	1	Mid	-0.07	0.663	24.61	25.00	1.094	0.725	/
Ant.1	QPSK	LeftEdge	0	38150	2610	1	Mid	-0.03	0.053	24.61	25.00	1.094	0.058	/
Ant.1	QPSK	Right Edge	0	38150	2610	1	Mid	0.07	0.200	24.61	25.00	1.094	0.219	/
Ant.1	QPSK	Bottom Edge	0	38150	2610	1	Mid	0.02	1.840	24.61	25.00	1.094	2.013	/
Ant.1	QPSK	Front Side	0	38150	2610	50	Mid	-0.13	0.476	23.31	24.00	1.172	0.558	/
Ant.1	QPSK	Back Side	0	38150	2610	50	Mid	-0.14	0.518	23.31	24.00	1.172	0.607	/
Ant.1	QPSK	Left Edge	0	38150	2610	50	Mid	-0.01	0.045	23.31	24.00	1.172	0.053	/
Ant.1	QPSK	Right Edge	0	38150	2610	50	Mid	-0.05	0.172	23.31	24.00	1.172	0.202	/
Ant.1	QPSK	Bottom Edge	0	38150	2610	50	Mid	0.13	1.610	23.31	24.00	1.172	1.887	/
Ant.1	QPSK	Bottom Edge	0	37850	2580	1	Mid	0.11	1.770	24.50	25.00	1.122	1.986	/
Ant.1	QPSK	Bottom Edge	0	38000	2595	1	Mid	0.07	1.920	24.58	25.00	1.102	2.116	30#
Ant.1	QPSK	Bottom Edge	0	37850	2580	50	Mid	-0.01	1.560	23.27	24.00	1.183	1.845	/
Ant.1	QPSK	Bottom Edge	0	38000	2595	50	Mid	-0.04	1.650	23.28	24.00	1.180	1.947	/
Ant.1	QPSK	Bottom Edge	0	38150	2610	100	Low	0.10	1.640	23.26	24.00	1.186	1.945	/
Extremity-Repeated SAR														
Ant.1	QPSK	Bottom Edge	0	38150	2610	1	Mid	0.06	1.760	24.61	25.00	1.094	1.925	/
Ant.1	QPSK	Bottom Edge	0	38000	2595	1	Mid	0.15	1.850	24.58	25.00	1.102	2.039	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

10.11 LTE Band 41 (20MHz Bandwidth)

Antenna	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- power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head														
Ant.1	QPSK	Left Cheek	0	41140	2645	1	Mid	0.05	0.019	21.60	23.00	1.380	0.026	31#
Ant.1	QPSK	Left Tilt	0	41140	2645	1	Mid	0.03	0.013	21.60	23.00	1.380	0.018	/
Ant.1	QPSK	Right Cheek	0	41140	2645	1	Mid	-0.03	0.009	21.60	23.00	1.380	0.012	/
Ant.1	QPSK	Right Tilt	0	41140	2645	1	Mid	-0.06	0.006	21.60	23.00	1.380	0.008	/
Ant.1	QPSK	Left Cheek	0	41140	2645	50	Mid	-0.05	0.015	20.43	22.00	1.435	0.022	/
Ant.1	QPSK	Left Tilt	0	41140	2645	50	Mid	0.11	0.011	20.43	22.00	1.435	0.016	/
Ant.1	QPSK	Right Cheek	0	41140	2645	50	Mid	0.06	0.007	20.43	22.00	1.435	0.010	/
Ant.1	QPSK	Right Tilt	0	41140	2645	50	Mid	0.03	0.003	20.43	22.00	1.435	0.004	/
Body-Worn&Hotspot														
Ant.1	QPSK	Front Side	10	41140	2645	1	Mid	0.05	0.152	21.60	23.00	1.380	0.210	/
Ant.1	QPSK	Back Side	10	41140	2645	1	Mid	0.08	0.146	21.60	23.00	1.380	0.201	/
Ant.1	QPSK	Left Edge	10	41140	2645	1	Mid	0.03	0.027	21.60	23.00	1.380	0.037	/
Ant.1	QPSK	Right Edge	10	41140	2645	1	Mid	-0.07	0.074	21.60	23.00	1.380	0.102	/
Ant.1	QPSK	Bottom Edge	10	41140	2645	1	Mid	0.19	0.648	21.60	23.00	1.380	0.894	32#
Ant.1	QPSK	Front Side	10	41140	2645	50	Mid	0.08	0.129	20.43	22.00	1.435	0.185	/
Ant.1	QPSK	Back Side	10	41140	2645	50	Mid	-0.13	0.113	20.43	22.00	1.435	0.162	/
Ant.1	QPSK	Left Edge	10	41140	2645	50	Mid	-0.10	0.023	20.43	22.00	1.435	0.033	/
Ant.1	QPSK	Right Edge	10	41140	2645	50	Mid	-0.07	0.065	20.43	22.00	1.435	0.093	/
Ant.1	QPSK	Bottom Edge	10	41140	2645	50	Mid	0.14	0.561	20.43	22.00	1.435	0.805	/
Ant.1	QPSK	Bottom Edge	10	40140	2545	1	Low	0.14	0.574	21.27	23.00	1.489	0.855	/
Ant.1	QPSK	Bottom Edge	10	40640	2595	1	Mid	-0.04	0.565	21.54	23.00	1.400	0.791	/
Ant.1	QPSK	Bottom Edge	10	40140	2545	50	Low	-0.12	0.554	20.36	22.00	1.459	0.808	/
Ant.1	QPSK	Bottom Edge	10	40640	2595	50	Mid	-0.09	0.531	20.39	22.00	1.449	0.769	/
Ant.1	QPSK	Bottom Edge	10	41140	2645	100	Low	-0.10	0.506	20.35	22.00	1.462	0.740	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune- power (dBm)	Scaling Factor	10 g Scaled SAR (W/kg)	Meas. No.
Extremity														
Ant.1	QPSK	Front Side	0	41140	2645	1	Mid	-0.03	0.306	21.60	23.00	1.380	0.422	/
Ant.1	QPSK	Back Side	0	41140	2645	1	Mid	0.12	0.318	21.60	23.00	1.380	0.439	/
Ant.1	QPSK	LeftEdge	0	41140	2645	1	Mid	0.00	0.034	21.60	23.00	1.380	0.047	/
Ant.1	QPSK	Right Edge	0	41140	2645	1	Mid	-0.15	0.108	21.60	23.00	1.380	0.149	/
Ant.1	QPSK	Bottom Edge	0	41140	2645	1	Mid	-0.01	0.990	21.60	23.00	1.380	1.366	33#
Ant.1	QPSK	Front Side	0	41140	2645	50	Mid	0.04	0.265	20.43	22.00	1.435	0.380	/
Ant.1	QPSK	Back Side	0	41140	2645	50	Mid	-0.13	0.256	20.43	22.00	1.435	0.367	/
Ant.1	QPSK	Left Edge	0	41140	2645	50	Mid	0.02	0.026	20.43	22.00	1.435	0.037	/
Ant.1	QPSK	Right Edge	0	41140	2645	50	Mid	-0.06	0.085	20.43	22.00	1.435	0.122	/
Ant.1	QPSK	Bottom Edge	0	41140	2645	50	Mid	-0.05	0.855	20.43	22.00	1.435	1.227	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

10.12 WIFI 2.4GHZ

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune- power (dBm)	Scaling Factor	Duty Cycle (%)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head														
Ant.2	802.11 b	Left Cheek	0	11	2462	-0.07	0.394	19.53	20.00	1.114	99.46	1.005	0.441	34#
	802.11 b	Left Tilt	0	11	2462	-0.02	0.271	19.53	20.00	1.114	99.46	1.005	0.303	/
	802.11 b	Right Cheek	0	11	2462	0.07	0.242	19.53	20.00	1.114	99.46	1.005	0.271	/
	802.11 b	Right Tilt	0	11	2462	-0.06	0.149	19.53	20.00	1.114	99.46	1.005	0.167	/
Body-Worn&Hotspot														
Ant.2	802.11 b	Front Side	10	11	2462	0.00	0.108	19.53	20.00	1.114	99.46	1.005	0.121	/
	802.11 b	Back Side	10	11	2462	0.12	0.035	19.53	20.00	1.114	99.46	1.005	0.039	/
	802.11 b	Left Edge	10	11	2462	-0.08	0.319	19.53	20.00	1.114	99.46	1.005	0.357	35#
	802.11 b	Top Edge	10	11	2462	-0.07	0.131	19.53	20.00	1.114	99.46	1.005	0.147	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune- power (dBm)	Scaling Factor	Duty Cycle (%)	Scaling Factor	10 g Scaled SAR (W/kg)	Meas. No.
Extremity														
Ant.2	802.11 b	Front Side	0	11	2462	0.06	0.355	19.53	20.00	1.114	99.46	1.005	0.397	/
	802.11 b	Back Side	0	11	2462	-0.12	0.211	19.53	20.00	1.114	99.46	1.005	0.236	/
	802.11 b	Left Edge	0	11	2462	-0.01	0.564	19.53	20.00	1.114	99.46	1.005	0.631	36#
	802.11 b	Top Edge	0	11	2462	0.11	0.045	19.53	20.00	1.114	99.46	1.005	0.050	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

10.13 WIFI 5GHz

Antenna	Band	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune- power (dBm)	Scaling Factor	Duty Cycle (%)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.2	5.3G	802.11 ac 80	Left Cheek	0	58	5290	-0.06	0.093	13.32	15.00	1.472	87.91	1.138	0.156	37#
	5.3G	802.11 ac 80	Left Tilt	0	58	5290	-0.04	0.078	13.32	15.00	1.472	87.91	1.138	0.131	/
	5.3G	802.11 ac 80	Right Cheek	0	58	5290	0.10	0.081	13.32	15.00	1.472	87.91	1.138	0.136	/
	5.3G	802.11 ac 80	Right Tilt	0	58	5290	0.10	0.085	13.32	15.00	1.472	87.91	1.138	0.142	/
Ant.2	5.8G	802.11 ac 80	Left Cheek	0	155	5775	-0.07	0.229	12.03	13.00	1.250	87.91	1.138	0.326	38#
	5.8G	802.11 ac 80	Left Tilt	0	155	5775	0.13	0.198	12.03	13.00	1.250	87.91	1.138	0.282	/
	5.8G	802.11 ac 80	Right Cheek	0	155	5775	0.03	0.145	12.03	13.00	1.250	87.91	1.138	0.206	/
	5.8G	802.11 ac 80	Right Tilt	0	155	5775	0.14	0.186	12.03	13.00	1.250	87.91	1.138	0.265	/
Body-Worn															
Ant.2	5.3G	802.11 ac 80	Front Side	10	58	5290	0.14	0.017	13.32	15.00	1.472	87.91	1.138	0.028	39#
	5.3G	802.11 ac 80	Back Side	10	58	5290	0.11	0.006	13.32	15.00	1.472	87.91	1.138	0.010	/
Hotspot															
Ant.2	5.2G	802.11 ac 80	Front Side	10	42	5210	-0.05	0.055	13.61	15.00	1.377	87.91	1.138	0.086	40#
	5.2G	802.11 ac 80	Back Side	10	42	5210	-0.14	0.016	13.61	15.00	1.377	87.91	1.138	0.025	/
	5.2G	802.11 ac 80	Left Edge	10	42	5210	-0.03	0.009	13.61	15.00	1.377	87.91	1.138	0.014	/
	5.2G	802.11 ac 80	Top Edge	10	42	5210	-0.05	0.027	13.61	15.00	1.377	87.91	1.138	0.042	/
Ant.2	5.8G	802.11 ac 80	Front Side	10	155	5775	-0.01	0.090	12.03	13.00	1.250	87.91	1.138	0.128	/
	5.8G	802.11 ac 80	Back Side	10	155	5775	0.02	0.032	12.03	13.00	1.250	87.91	1.138	0.046	/
	5.8G	802.11 ac 80	Left Edge	10	155	5775	-0.14	0.069	12.03	13.00	1.250	87.91	1.138	0.098	/
	5.8G	802.11 ac 80	Top Edge	10	155	5775	0.11	0.112	12.03	13.00	1.250	87.91	1.138	0.159	41#
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

Antenna	Band	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune- power (dBm)	Scaling Factor	Duty Cycle (%)	Scaling Factor	10 g Scaled SAR (W/kg)	Meas. No.
Extremity															
Ant.2	5.3G	802.11 ac 80	Front Side	0	58	5290	0.04	0.053	13.32	15.00	1.472	87.91	1.138	0.089	/
	5.3G	802.11 ac 80	Back Side	0	58	5290	0.09	0.012	13.32	15.00	1.472	87.91	1.138	0.020	/
	5.3G	802.11 ac 80	Left Edge	0	58	5290	0.08	0.055	13.32	15.00	1.472	87.91	1.138	0.092	/
	5.3G	802.11 ac 80	Top Edge	0	58	5290	0.03	0.057	13.32	15.00	1.472	87.91	1.138	0.095	42#
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.14 Bluetooth

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune- power (dBm)	Scaling Factor	Duty Cycle (%)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head														
Ant.2	DH5	Left Cheek	0	39	2441	0.01	0.041	13.74	14.00	1.062	76.67	1.304	0.057	43#
Ant.2	DH5	Left Tilt	0	39	2441	-0.08	0.026	13.74	14.00	1.062	76.67	1.304	0.036	/
Ant.2	DH5	Right Cheek	0	39	2441	-0.03	0.032	13.74	14.00	1.062	76.67	1.304	0.044	/
Ant.2	DH5	Right Tilt	0	39	2441	-0.17	0.019	13.74	14.00	1.062	76.67	1.304	0.026	/
Body-worn&Hotspot														
Ant.2	DH5	Front Side	10	39	2441	-0.07	0.016	13.74	14.00	1.062	76.67	1.304	0.022	/
Ant.2	DH5	Back Side	10	39	2441	0.08	0.021	13.74	14.00	1.062	76.67	1.304	0.029	/
Ant.2	DH5	Left Edge	10	39	2441	0.05	0.089	13.74	14.00	1.062	76.67	1.304	0.123	44#
Ant.2	DH5	Top Edge	10	39	2441	-0.19	0.019	13.74	14.00	1.062	76.67	1.304	0.026	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune- power (dBm)	Scaling Factor	Duty Cycle (%)	Scaling Factor	10 g Scaled SAR (W/kg)	Meas. No.
Extremity														
Ant.2	DH5	Front Side	0	39	2441	-0.07	0.037	13.74	14.00	1.062	76.67	1.304	0.051	/
Ant.2	DH5	Back Side	0	39	2441	-0.13	0.034	13.74	14.00	1.062	76.67	1.304	0.047	/
Ant.2	DH5	Left Edge	0	39	2441	0.04	0.045	13.74	14.00	1.062	76.67	1.304	0.062	45#
Ant.2	DH5	Top Edge	0	39	2441	0.18	0.044	13.74	14.00	1.062	76.67	1.304	0.061	/
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
2535	LTE Band7	Body-Worn&Hotspot	Bottom Edge	0.818	Yes	0.812	1.01
2610	LTE Ban38	Body-Worn&Hotspot	Bottom Edge	0.988	Yes	0.967	1.02
2595	LTE Ban38	Body-Worn&Hotspot	Bottom Edge	0.911	Yes	0.902	1.01
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	Extremity
1	WWAN+WIFI2.4G	Yes	Yes	Yes	Yes
2	WWAN+WIFI5G+BT	Yes	Yes	Yes	Yes

Note:

1. WLAN 2.4G and Bluetooth share the same antenna, and can't transmit simultaneously.
2. When stand-alone SAR is not required for a transmitter or antenna, its SAR is considered zero in the SAR summing process to assess Multi-band transmission SAR compliance.
3. The maximum SAR summation is calculated based on the same configuration and test position.

12.2 Sum SAR of Simultaneous Transmission

12.2.1 Head Simultaneous Transmission SAR Evaluation for WWAN and WLAN

Band	Antenna	Position	Stand alone SAR				SUM SAR	
			1	2	3	4		
			WWAN	2.4GWIFI Max.	5GWIFI Max.	Bluetooth	1+2	1+3+4
GSM850	Ant.1	Left Cheek	0.325	0.441	0.326	0.057	0.766	0.708
		Left Tilt	0.213	0.303	0.282	0.036	0.516	0.531
		Right Cheek	0.451	0.271	0.206	0.044	0.722	0.701
		Right Tilt	0.242	0.167	0.265	0.026	0.409	0.533
GSM1900	Ant.1	Left Cheek	0.481	0.441	0.326	0.057	0.922	0.864
		Left Tilt	0.163	0.303	0.282	0.036	0.466	0.481
		Right Cheek	0.227	0.271	0.206	0.044	0.498	0.477
		Right Tilt	0.173	0.167	0.265	0.026	0.340	0.464
WCDMA B2	Ant.1	Left Cheek	0.574	0.441	0.326	0.057	1.015	0.957
		Left Tilt	0.205	0.303	0.282	0.036	0.508	0.523
		Right Cheek	0.250	0.271	0.206	0.044	0.521	0.500
		Right Tilt	0.222	0.167	0.265	0.026	0.389	0.513
WCDMA B4	Ant.1	Left Cheek	0.429	0.441	0.326	0.057	0.870	0.812
		Left Tilt	0.183	0.303	0.282	0.036	0.486	0.501
		Right Cheek	0.230	0.271	0.206	0.044	0.501	0.480
		Right Tilt	0.211	0.167	0.265	0.026	0.378	0.502
WCDMA B5	Ant.1	Left Cheek	0.111	0.441	0.326	0.057	0.552	0.494
		Left Tilt	0.073	0.303	0.282	0.036	0.376	0.391
		Right Cheek	0.141	0.271	0.206	0.044	0.412	0.391
		Right Tilt	0.077	0.167	0.265	0.026	0.244	0.368
LTE B2	Ant.1	Left Cheek	0.467	0.441	0.326	0.057	0.908	0.850
		Left Tilt	0.198	0.303	0.282	0.036	0.501	0.516
		Right Cheek	0.233	0.271	0.206	0.044	0.504	0.483
		Right Tilt	0.239	0.167	0.265	0.026	0.406	0.530
LTE B4	Ant.1	Left Cheek	0.334	0.441	0.326	0.057	0.775	0.717
		Left Tilt	0.086	0.303	0.282	0.036	0.389	0.404
		Right Cheek	0.169	0.271	0.206	0.044	0.440	0.419
		Right Tilt	0.121	0.167	0.265	0.026	0.288	0.412
LTE B5	Ant.1	Left Cheek	0.183	0.441	0.326	0.057	0.624	0.566
		Left Tilt	0.129	0.303	0.282	0.036	0.432	0.447
		Right Cheek	0.199	0.271	0.206	0.044	0.470	0.449
		Right Tilt	0.125	0.167	0.265	0.026	0.292	0.416
LTE B7	Ant.1	Left Cheek	0.108	0.441	0.326	0.057	0.549	0.491
		Left Tilt	0.070	0.303	0.282	0.036	0.373	0.388
		Right Cheek	0.051	0.271	0.206	0.044	0.322	0.301
		Right Tilt	0.063	0.167	0.265	0.026	0.230	0.354
LTE B38	Ant.1	Left Cheek	0.040	0.441	0.326	0.057	0.481	0.423

		Left Tilt	0.034	0.303	0.282	0.036	0.337	0.352
		Right Cheek	0.025	0.271	0.206	0.044	0.296	0.275
		Right Tilt	0.023	0.167	0.265	0.026	0.190	0.314
LTE B41	Ant.1	Left Cheek	0.026	0.441	0.326	0.057	0.467	0.409
		Left Tilt	0.018	0.303	0.282	0.036	0.321	0.336
		Right Cheek	0.012	0.271	0.206	0.044	0.283	0.262
		Right Tilt	0.008	0.167	0.265	0.026	0.175	0.299

Note:

1: The simultaneous transmission combinations of the antennas 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 1.015 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

12.2.2 Body Simultaneous Transmission SAR Evaluation for WWAN and WLAN

Band	Antenna	Position	Stand alone SAR				SUM SAR	
			1	2	3	4		
			WWAN	2.4GWIFI Max.	5GWIFI Max.	Bluetooth	1+2	1+3+4
GSM850	Ant.1	Front Side 10mm	0.322	0.121	0.128	0.022	0.443	0.472
		Back Side 10mm	0.467	0.039	0.046	0.029	0.506	0.542
		Left Edge 10mm	0.485	0.357	0.098	0.123	0.842	0.706
		Right Edge 10mm	0.291	0.000	0.000	0.000	0.291	0.291
		Top Edge 10mm	0.000	0.147	0.159	0.026	0.147	0.185
		Bottom Edge 10mm	0.227	0.000	0.000	0.000	0.227	0.227
GSM1900	Ant.1	Front Side 10mm	0.361	0.121	0.128	0.022	0.482	0.511
		Back Side 10mm	0.210	0.039	0.046	0.029	0.249	0.285
		Left Edge 10mm	0.088	0.357	0.098	0.123	0.445	0.309
		Right Edge 10mm	0.336	0.000	0.000	0.000	0.336	0.336
		Top Edge 10mm	0.000	0.147	0.159	0.026	0.147	0.185
		Bottom Edge 10mm	0.313	0.000	0.000	0.000	0.313	0.313
WCDMA B2	Ant.1	Front Side 10mm	0.467	0.121	0.128	0.022	0.588	0.617
		Back Side 10mm	0.431	0.039	0.046	0.029	0.470	0.506
		Left Edge 10mm	0.100	0.357	0.098	0.123	0.457	0.321
		Right Edge 10mm	0.406	0.000	0.000	0.000	0.406	0.406
		Top Edge 10mm	0.000	0.147	0.159	0.026	0.147	0.185
		Bottom Edge 10mm	0.408	0.000	0.000	0.000	0.408	0.408
WCDMA B4	Ant.1	Front Side 10mm	0.356	0.121	0.128	0.022	0.477	0.506
		Back Side 10mm	0.316	0.039	0.046	0.029	0.355	0.391
		Left Edge 10mm	0.075	0.357	0.098	0.123	0.432	0.296
		Right Edge 10mm	0.251	0.000	0.000	0.000	0.251	0.251
		Top Edge 10mm	0.000	0.147	0.159	0.026	0.147	0.185
		Bottom Edge 10mm	0.205	0.000	0.000	0.000	0.205	0.205
WCDMA B5	Ant.1	Front Side 10mm	0.167	0.121	0.128	0.022	0.288	0.317
		Back Side 10mm	0.129	0.039	0.046	0.029	0.168	0.204
		Left Edge 10mm	0.248	0.357	0.098	0.123	0.605	0.469
		Right Edge 10mm	0.168	0.000	0.000	0.000	0.168	0.168
		Top Edge 10mm	0.000	0.147	0.159	0.026	0.147	0.185
		Bottom Edge 10mm	0.113	0.000	0.000	0.000	0.113	0.113
LTE B2	Ant.1	Front Side 10mm	0.536	0.121	0.128	0.022	0.657	0.686
		Back Side 10mm	0.454	0.039	0.046	0.029	0.493	0.529
		Left Edge 10mm	0.085	0.357	0.098	0.123	0.442	0.306
		Right Edge 10mm	0.399	0.000	0.000	0.000	0.399	0.399
		Top Edge 10mm	0.000	0.147	0.159	0.026	0.147	0.185
		Bottom Edge 10mm	0.403	0.000	0.000	0.000	0.403	0.403
LTE B4	Ant.1	Front Side 10mm	0.531	0.121	0.128	0.022	0.652	0.681
		Back Side 10mm	0.410	0.039	0.046	0.029	0.449	0.485

		Left Edge 10mm	0.123	0.357	0.098	0.123	0.480	0.344
		Right Edge 10mm	0.371	0.000	0.000	0.000	0.371	0.371
		Top Edge 10mm	0.000	0.147	0.159	0.026	0.147	0.185
		Bottom Edge 10mm	0.299	0.000	0.000	0.000	0.299	0.299
LTE B5	Ant.1	Front Side 10mm	0.192	0.121	0.128	0.022	0.313	0.342
		Back Side 10mm	0.109	0.039	0.046	0.029	0.148	0.184
		Left Edge 10mm	0.266	0.357	0.098	0.123	0.623	0.487
		Right Edge 10mm	0.183	0.000	0.000	0.000	0.183	0.183
		Top Edge 10mm	0.000	0.147	0.159	0.026	0.147	0.185
		Bottom Edge 10mm	0.122	0.000	0.000	0.000	0.122	0.122
LTE B7	Ant.1	Front Side 10mm	0.276	0.121	0.128	0.022	0.397	0.426
		Back Side 10mm	0.257	0.039	0.046	0.029	0.296	0.332
		Left Edge 10mm	0.042	0.357	0.098	0.123	0.399	0.263
		Right Edge 10mm	0.152	0.000	0.000	0.000	0.152	0.152
		Top Edge 10mm	0.000	0.147	0.159	0.026	0.147	0.185
		Bottom Edge 10mm	1.073	0.000	0.000	0.000	1.073	1.073
LTE B38	Ant.1	Front Side 10mm	0.234	0.121	0.128	0.022	0.355	0.384
		Back Side 10mm	0.366	0.039	0.046	0.029	0.405	0.441
		Left Edge 10mm	0.060	0.357	0.098	0.123	0.417	0.281
		Right Edge 10mm	0.113	0.000	0.000	0.000	0.113	0.113
		Top Edge 10mm	0.000	0.147	0.159	0.026	0.147	0.185
		Bottom Edge 10mm	1.081	0.000	0.000	0.000	1.081	1.081
LTE B41	Ant.1	Front Side 10mm	0.210	0.121	0.128	0.022	0.331	0.360
		Back Side 10mm	0.201	0.039	0.046	0.029	0.240	0.276
		Left Edge 10mm	0.037	0.357	0.098	0.123	0.394	0.258
		Right Edge 10mm	0.102	0.000	0.000	0.000	0.102	0.102
		Top Edge 10mm	0.000	0.147	0.159	0.026	0.147	0.185
		Bottom Edge 10mm	0.894	0.000	0.000	0.000	0.894	0.894

Note:

1: The simultaneous transmission combinations of the 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 1.081 W/Kg < 1.60 W/kg, so Simultaneous Transmission SAR test is not required.

12.2.3 Extremity Simultaneous Transmission SAR Evaluation for WWAN and WLAN

Band	Antenna	Position	Stand alone SAR				SUM SAR	
			1	2	3	4		
			WWAN	2.4GWIFI Max.	5GWIFI Max.	Bluetooth	1+2	1+3+4
GSM850	Ant.1	Front Side 0mm	0.773	0.397	0.089	0.051	1.170	0.913
		Back Side 0mm	0.529	0.026	0.020	0.047	0.555	0.596
		Left Edge 0mm	0.356	0.631	0.092	0.062	0.987	0.510
		Right Edge 0mm	0.339	0.000	0.000	0.000	0.339	0.339
		Top Edge 0mm	0.000	0.050	0.095	0.061	0.050	0.156
		Bottom Edge 0mm	0.563	0.000	0.000	0.000	0.563	0.563
GSM1900	Ant.1	Front Side 0mm	1.620	0.397	0.089	0.051	2.017	1.760
		Back Side 0mm	0.550	0.026	0.020	0.047	0.576	0.617
		Left Edge 0mm	0.133	0.631	0.092	0.062	0.764	0.287
		Right Edge 0mm	0.885	0.000	0.000	0.000	0.885	0.885
		Top Edge 0mm	0.000	0.050	0.095	0.061	0.050	0.156
		Bottom Edge 0mm	0.960	0.000	0.000	0.000	0.960	0.960
WCDMA B2	Ant.1	Front Side 0mm	1.645	0.397	0.089	0.051	2.042	1.785
		Back Side 0mm	1.522	0.026	0.020	0.047	1.548	1.589
		Left Edge 0mm	0.120	0.631	0.092	0.062	0.751	0.274
		Right Edge 0mm	0.744	0.000	0.000	0.000	0.744	0.744
		Top Edge 0mm	0.000	0.050	0.095	0.061	0.050	0.156
		Bottom Edge 0mm	0.841	0.000	0.000	0.000	0.841	0.841
WCDMA B4	Ant.1	Front Side 0mm	1.582	0.397	0.089	0.051	1.979	1.722
		Back Side 0mm	1.372	0.026	0.020	0.047	1.398	1.439
		Left Edge 0mm	0.295	0.631	0.092	0.062	0.926	0.449
		Right Edge 0mm	0.703	0.000	0.000	0.000	0.703	0.703
		Top Edge 0mm	0.000	0.050	0.095	0.061	0.050	0.156
		Bottom Edge 0mm	0.544	0.000	0.000	0.000	0.544	0.544
WCDMA B5	Ant.1	Front Side 0mm	0.390	0.397	0.089	0.051	0.787	0.530
		Back Side 0mm	0.295	0.026	0.020	0.047	0.321	0.362
		Left Edge 0mm	0.200	0.631	0.092	0.062	0.831	0.354
		Right Edge 0mm	0.163	0.000	0.000	0.000	0.163	0.163
		Top Edge 0mm	0.000	0.050	0.095	0.061	0.050	0.156
		Bottom Edge 0mm	0.297	0.000	0.000	0.000	0.297	0.297
LTE B2	Ant.1	Front Side 0mm	1.779	0.397	0.089	0.051	2.176	1.919
		Back Side 0mm	1.466	0.026	0.020	0.047	1.492	1.533
		Left Edge 0mm	0.130	0.631	0.092	0.062	0.761	0.284
		Right Edge 0mm	0.864	0.000	0.000	0.000	0.864	0.864
		Top Edge 0mm	0.000	0.050	0.095	0.061	0.050	0.156
		Bottom Edge 0mm	0.969	0.000	0.000	0.000	0.969	0.969
LTE B4	Ant.1	Front Side 0mm	1.977	0.397	0.089	0.051	2.374	2.117
		Back Side 0mm	1.457	0.026	0.020	0.047	1.483	1.524

		Left Edge 0mm	0.320	0.631	0.092	0.062	0.951	0.474
		Right Edge 0mm	0.869	0.000	0.000	0.000	0.869	0.869
		Top Edge 0mm	0.000	0.050	0.095	0.061	0.050	0.156
		Bottom Edge 0mm	0.776	0.000	0.000	0.000	0.776	0.776
LTE B5	Ant.1	Front Side 0mm	0.419	0.397	0.089	0.051	0.816	0.559
		Back Side 0mm	0.281	0.026	0.020	0.047	0.307	0.348
		Left Edge 0mm	0.220	0.631	0.092	0.062	0.851	0.374
		Right Edge 0mm	0.172	0.000	0.000	0.000	0.172	0.172
		Top Edge 0mm	0.000	0.050	0.095	0.061	0.050	0.156
		Bottom Edge 0mm	0.303	0.000	0.000	0.000	0.303	0.303
LTE B7	Ant.1	Front Side 0mm	0.564	0.397	0.089	0.051	0.961	0.704
		Back Side 0mm	0.554	0.026	0.020	0.047	0.580	0.621
		Left Edge 0mm	0.062	0.631	0.092	0.062	0.693	0.216
		Right Edge 0mm	0.206	0.000	0.000	0.000	0.206	0.206
		Top Edge 0mm	0.000	0.050	0.095	0.061	0.050	0.156
		Bottom Edge 0mm	1.824	0.000	0.000	0.000	1.824	1.824
LTE B38	Ant.1	Front Side 0mm	0.625	0.397	0.089	0.051	1.022	0.765
		Back Side 0mm	0.725	0.026	0.020	0.047	0.751	0.792
		Left Edge 0mm	0.058	0.631	0.092	0.062	0.689	0.212
		Right Edge 0mm	0.219	0.000	0.000	0.000	0.219	0.219
		Top Edge 0mm	0.000	0.050	0.095	0.061	0.050	0.156
		Bottom Edge 0mm	2.116	0.000	0.000	0.000	2.116	2.116
LTE B41	Ant.1	Front Side 0mm	0.422	0.397	0.089	0.051	0.819	0.562
		Back Side 0mm	0.439	0.026	0.020	0.047	0.465	0.506
		Left Edge 0mm	0.047	0.631	0.092	0.062	0.678	0.201
		Right Edge 0mm	0.149	0.000	0.000	0.000	0.149	0.149
		Top Edge 0mm	0.000	0.050	0.095	0.061	0.050	0.156
		Bottom Edge 0mm	1.366	0.000	0.000	0.000	1.366	1.366

Note:

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

2: The highest Summed 10g SAR is 2.374 W/Kg < 4.0 W/kg, so Simultaneous Transmission SAR test is not required.

13 TEST EQUIPMENTS LIST

Description	Manufacturer	Model	Serial No./Version	Cal. Date	Cal. Due
PC	Dell	N/A	N/A	N/A	N/A
Test Software	Speag	DASY5	52.8.8.1222	N/A	N/A
835MHz Validation Dipole	Speag	D835V2	SN: 4d187	2021/05/17	2024/05/17
1750MHz Validation Dipole	Speag	D1750V2	SN: 1130	2021/05/17	2024/05/17
1900MHz Validation Dipole	Speag	D1900V2	SN: 5d193	2021/05/20	2024/05/20
2450MHz Validation Dipole	Speag	D2450V2	SN: 952	2021/05/19	2024/05/19
2600MHz Validation Dipole	Speag	D2600V2	SN: 1095	2021/05/19	2024/05/19
5GHz Validation Dipole	Speag	D5GHzV2	SN: 1200	2021/05/18	2024/05/18
E-Field Probe	Speag	EX3DV4	SN: 7506	2023/06/29	2024/06/29
Data Acquisition Electronicsr	Speag	DAE4	SN: 1710	2024/01/03	2025/01/03
Signal Generator	R&S	SMB100A	177746	2023/05/10	2024/05/10
Power Meter	R&S	NRVD-B2	835843/014	2023/09/05	2024/09/05
Power Sensor	R&S	NRV-Z4	100381	2023/09/05	2024/09/05
Power Sensor	R&S	NRV-Z2	100211	2023/09/05	2024/09/05
Wireless Communication Test Set	Anritsu	MT8820C	6201144551	2023/06/29	2024/06/29
Network Analyzer	Agilent	E5071C	MY46103472	2023/11/14	2024/11/14
Thermometer	Elitech	RC-4	EF5238001628	2023/10/09	2024/10/09
Thermometer	Elitech	RC-4HC	EF7239002652	2023/11/17	2024/11/17
Power Amplifier	SATIMO	6552B	22374	N/A	N/A
Dielectric Probe Kit	Speag	DAK3.5	SN: 1312	N/A	N/A
Phantom	Speag	SAM	SN: 1859	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 a DAK3.5 P 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 (%)
2024.03.11	Head	835	21.5	0.90	41.68	0.90	41.50	0.00	0.43
2024.03.12	Head	1750	21.4	1.37	40.05	1.37	40.08	0.00	-0.07
2024.03.13	Head	1900	21.6	1.43	39.90	1.40	40.00	2.14	-0.25
2024.03.14	Head	1900	21.2	1.40	39.94	1.40	40.00	0.00	-0.15
2024.03.15	Head	2450	21.3	1.80	39.61	1.80	39.20	0.00	1.05
2024.03.16	Head	2600	21.5	1.97	38.43	1.96	39.01	0.51	-1.49
2024.03.17	Head	2600	21.6	1.98	40.00	1.96	39.01	1.02	2.54
2024.03.18	Head	2600	21.5	1.99	39.23	1.96	39.01	1.53	0.56
2024.03.19	Head	5250	21.2	4.70	35.81	4.71	35.93	-0.21	-0.33
2024.03.20	Head	5750	21.1	5.17	35.58	5.22	35.36	-0.96	0.62

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 (%)
2024.03.11	Head	835	100	0.96	9.63	9.76	-1.33
2024.03.12	Head	1750	100	3.58	35.80	36.70	-2.45
2024.03.13	Head	1900	100	3.95	39.50	40.30	-1.99
2024.03.14	Head	1900	100	4.11	41.10	40.30	1.99
2024.03.15	Head	2450	100	5.43	54.30	53.00	2.45
2024.03.16	Head	2600	100	5.73	57.30	56.80	0.88
2024.03.17	Head	2600	100	5.68	56.80	56.80	0.00
2024.03.18	Head	2600	100	5.58	55.80	56.80	-1.76
2024.03.19	Head	5250	100	7.66	76.60	77.80	-1.54
2024.03.20	Head	5750	100	7.82	78.20	77.20	1.30

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 (%)
2024.03.11	835	100	0.635	6.35	6.34	0.16
2024.03.12	1750	100	1.860	18.60	19.10	-2.62
2024.03.13	1900	100	1.920	19.20	20.30	-5.42
2024.03.14	1900	100	2.020	20.20	20.30	-0.49
2024.03.15	2450	100	2.410	24.10	24.10	0.00
2024.03.16	2600	100	2.490	24.90	24.80	0.40
2024.03.17	2600	100	2.420	24.20	24.80	-2.42
2024.03.18	2600	100	2.470	24.70	24.80	-0.40
2024.03.19	5250	100	2.170	21.70	22.10	-1.81
2024.03.20	5750	100	2.160	21.60	21.70	-0.46
Note: The tolerance limit of System validation $\pm 10\%$.						

System Performance Check Data (835MHz)

Date: 2024.03.11

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

Medium parameters used: $f = 835$ MHz; $\sigma = 0.897$ S/m; $\epsilon_r = 41.675$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.5°C Liquid Temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(10.35, 10.35, 10.35); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

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

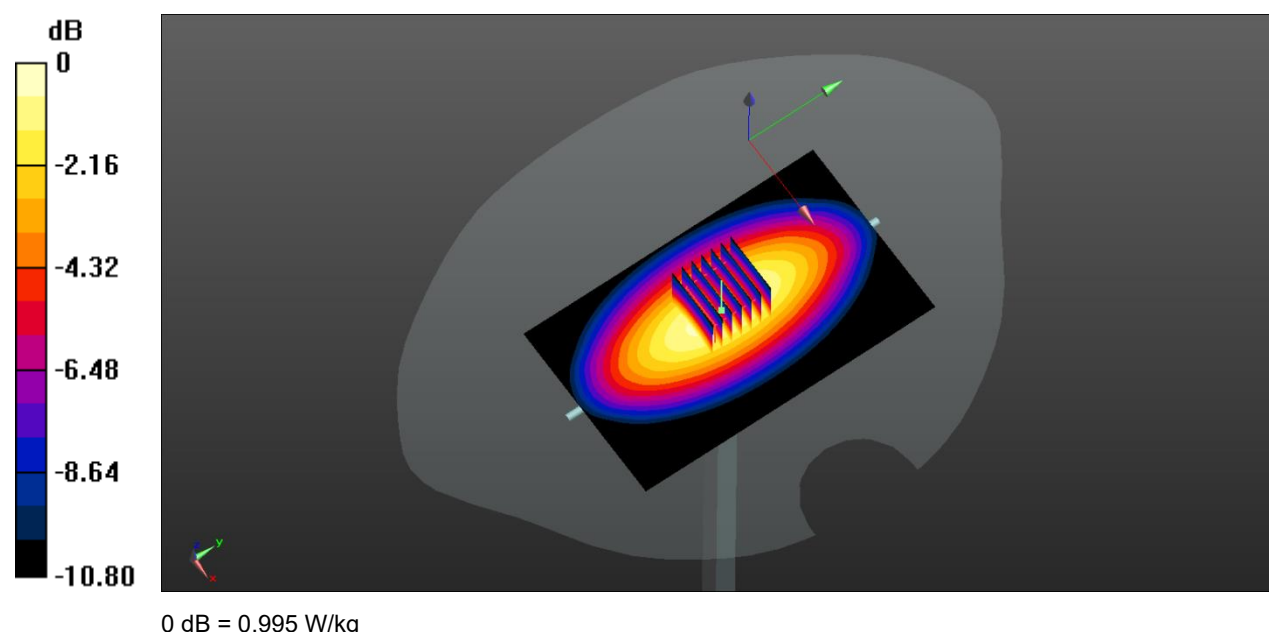
CW 835/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 34.52 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.44 W/kg

SAR(1 g) = 0.963 W/kg; SAR(10 g) = 0.635 W/kg

Maximum value of SAR (measured) = 0.995 W/kg



System Performance Check Data (1750MHz)

Date: 2024.03.12

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

Medium parameters used (interpolated): $f = 1750$ MHz; $\sigma = 1.374$ S/m; $\epsilon_r = 40.048$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3°C Liquid Temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.99, 8.99, 8.99); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

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

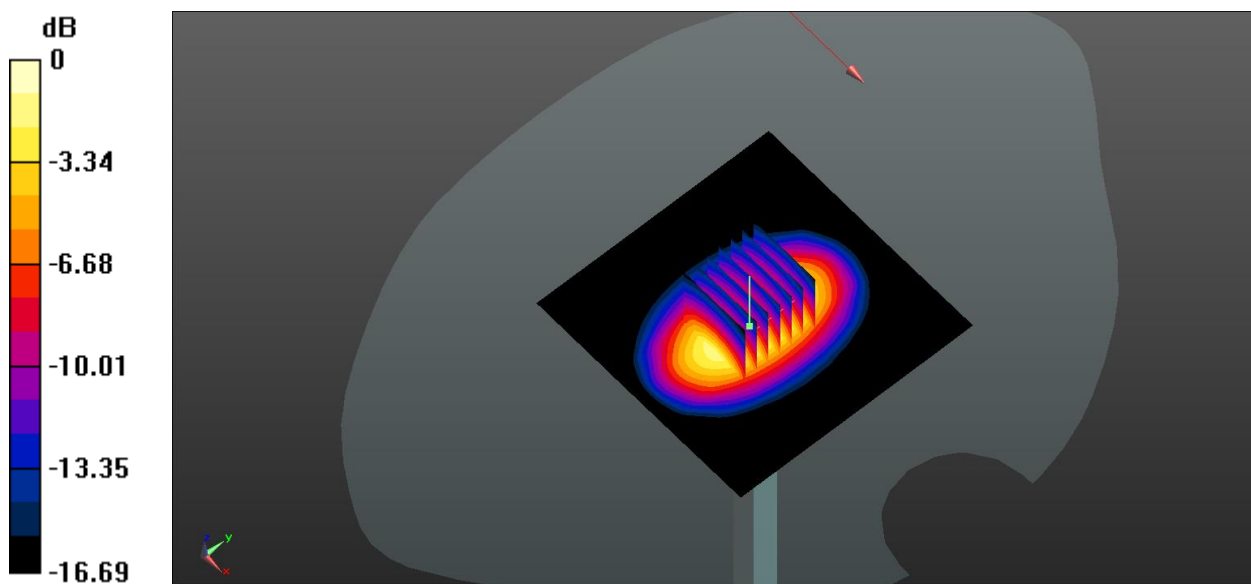
CW 1750 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 54.81 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 7.04 W/kg

SAR(1 g) = 3.58 W/kg; SAR(10 g) = 1.86 W/kg

Maximum value of SAR (measured) = 4.21 W/kg



0 dB = 4.21 W/kg

System Performance Check Data (1900MHz)

Date: 2024.03.13

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.429$ S/m; $\epsilon_r = 39.904$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.6°C Liquid Temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.56, 8.56, 8.56); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

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

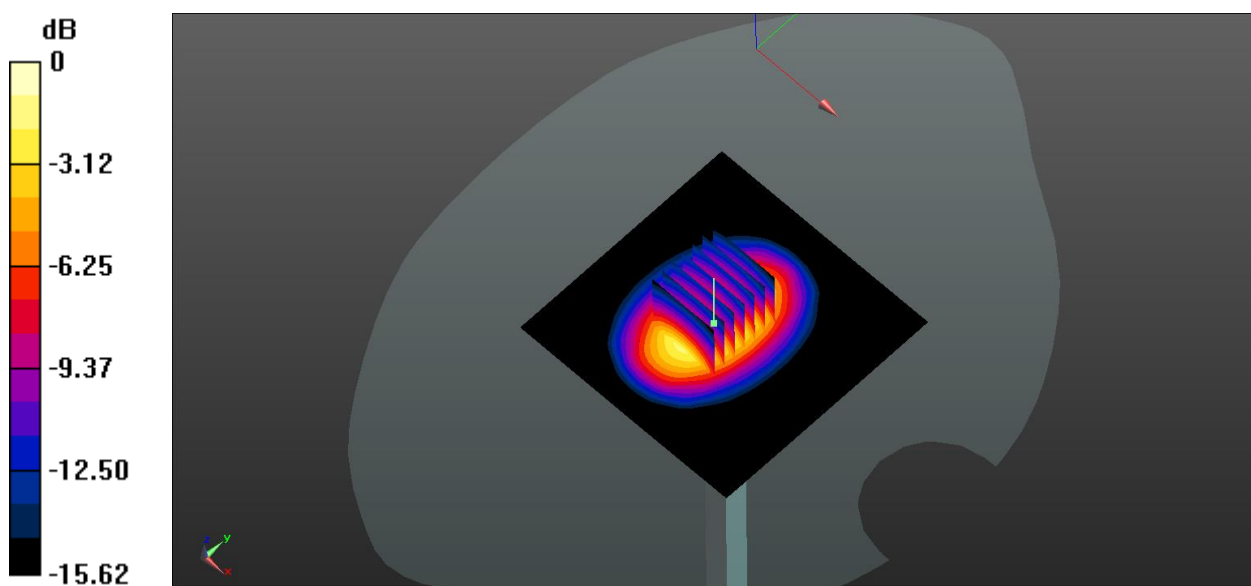
CW 1900/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 55.56 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 7.34 W/kg

SAR(1 g) = 3.95 W/kg; SAR(10 g) = 1.92 W/kg

Maximum value of SAR (measured) = 4.45 W/kg



0 dB = 4.45 W/kg

System Performance Check Data (1900MHz)

Date: 2024.03.14

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.399$ S/m; $\epsilon_r = 39.941$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.1°C Liquid Temperature: 21.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.56, 8.56, 8.56); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

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

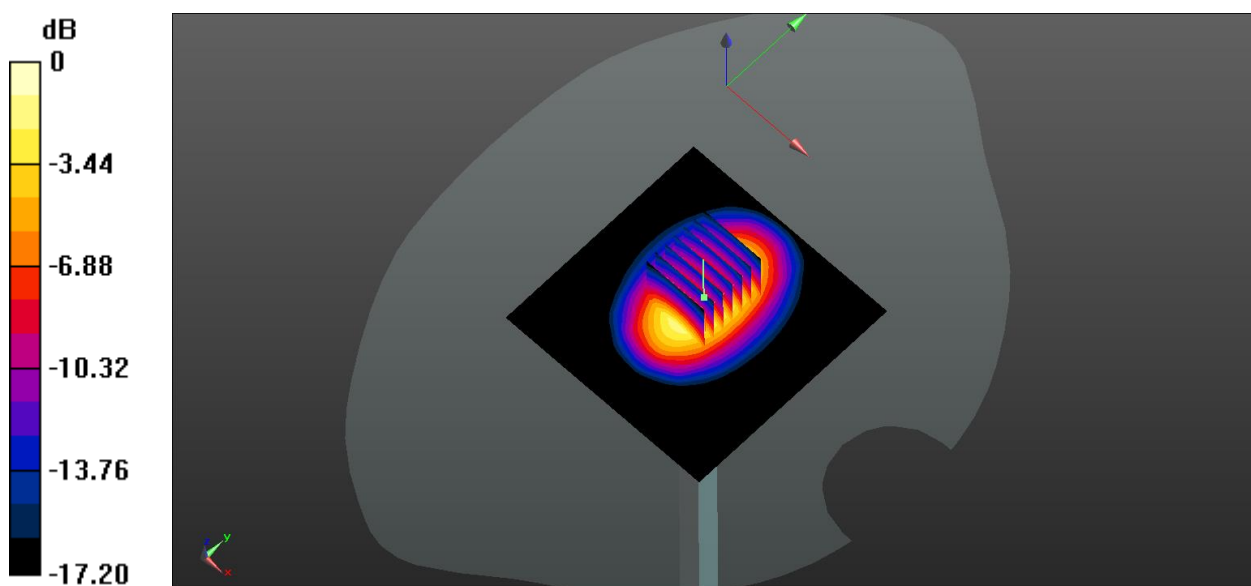
CW 1900/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 53.16 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 7.53 W/kg

SAR(1 g) = 4.11 W/kg; SAR(10 g) = 2.02 W/kg

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



0 dB = 4.63 W/kg

System Performance Check Data (2450MHz)

Date: 2024.03.15

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

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.8$ S/m; $\epsilon_r = 39.608$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3°C Liquid Temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.98, 7.98, 7.98); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

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

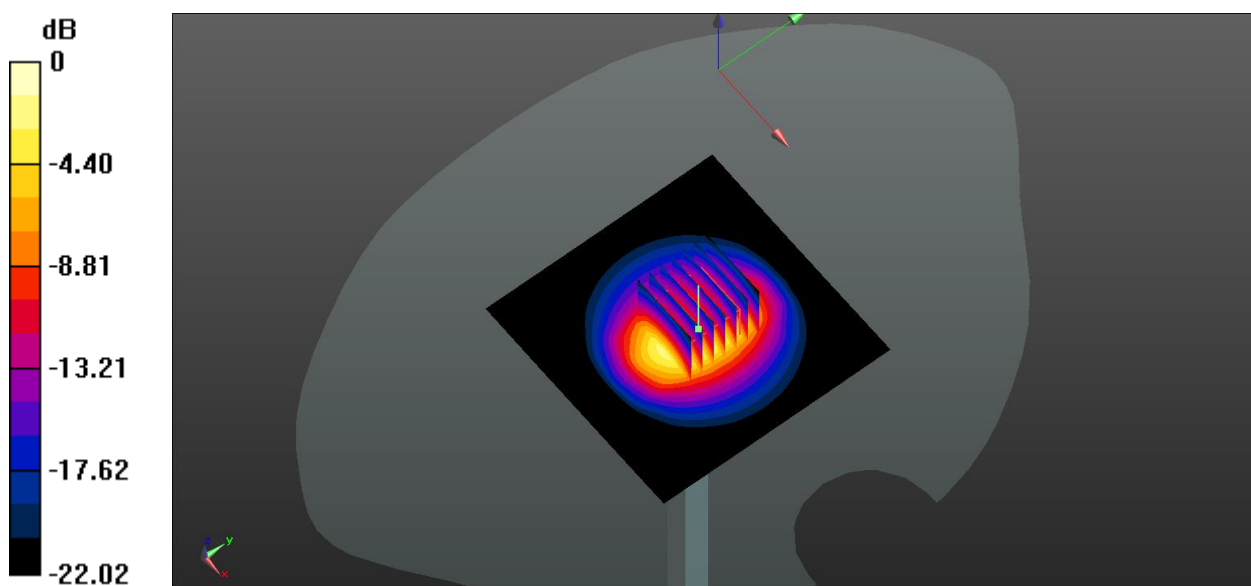
CW 2450/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 55.27 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 11.2 W/kg

SAR(1 g) = 5.43 W/kg; SAR(10 g) = 2.41 W/kg

Maximum value of SAR (measured) = 6.12 W/kg



0 dB = 6.12 W/kg

System Performance Check Data (2600MHz)

Date: 2024.03.16

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

Medium parameters used (extrapolated): $f = 2600$ MHz; $\sigma = 1.969$ S/m; $\epsilon_r = 38.433$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.7°C Liquid Temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.64, 7.64, 7.64); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

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

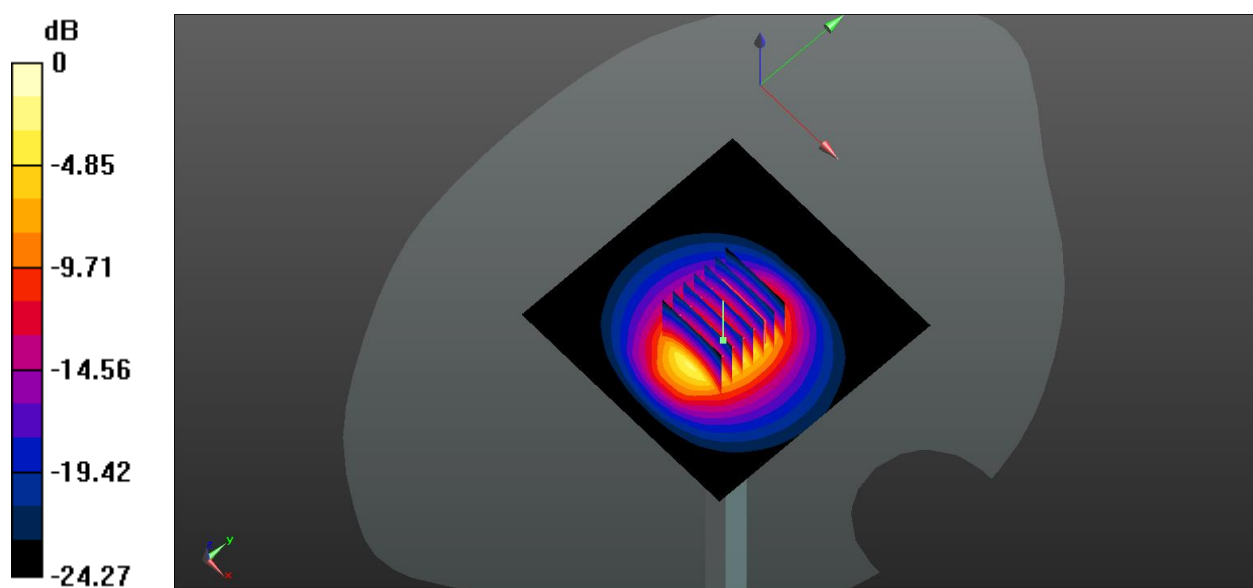
CW 2600/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

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

Peak SAR (extrapolated) = 12.5 W/kg

SAR(1 g) = 5.73 W/kg; SAR(10 g) = 2.49 W/kg

Maximum value of SAR (measured) = 6.53 W/kg



0 dB = 6.53 W/kg

System Performance Check Data (2600MHz)

Date: 2024.03.17

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; $\epsilon_r = 39.996$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.8°C Liquid Temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.64, 7.64, 7.64); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 6.44 W/kg

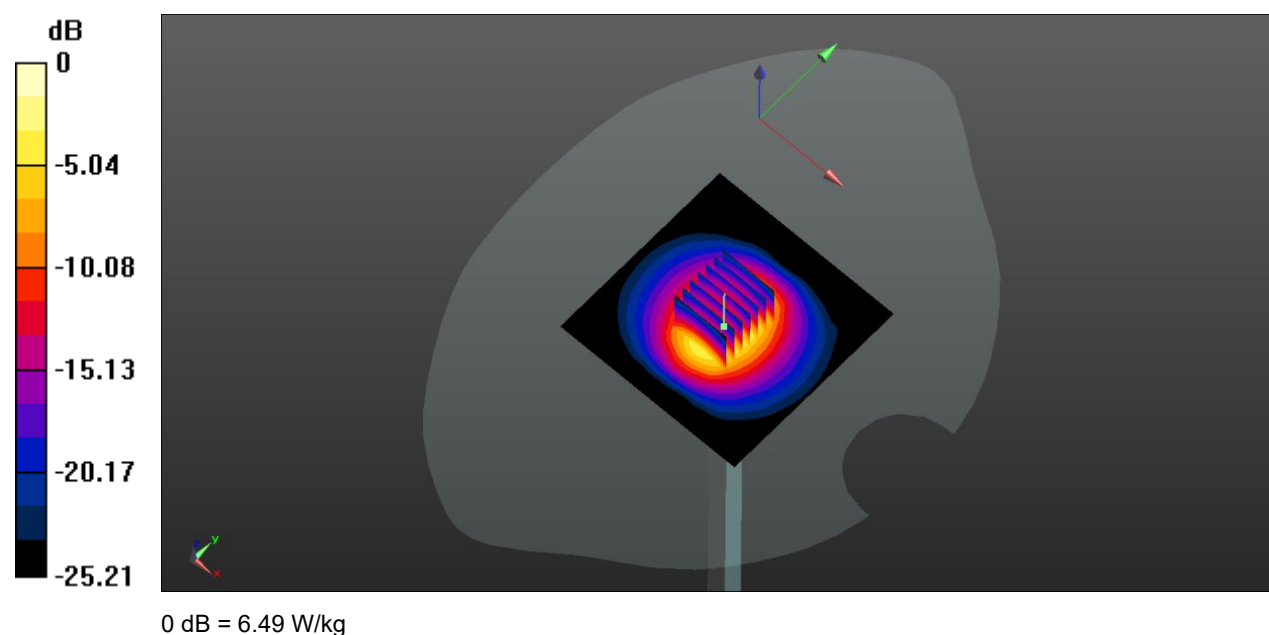
CW 2600/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 56.59 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 12.7 W/kg

SAR(1 g) = 5.68 W/kg; SAR(10 g) = 2.42 W/kg

Maximum value of SAR (measured) = 6.49 W/kg



System Performance Check Data (2600MHz)

Date: 2024.03.18

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

Medium parameters used (extrapolated): $f = 2600$ MHz; $\sigma = 1.993$ S/m; $\epsilon_r = 39.225$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.5°C Liquid Temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.64, 7.64, 7.64); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

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

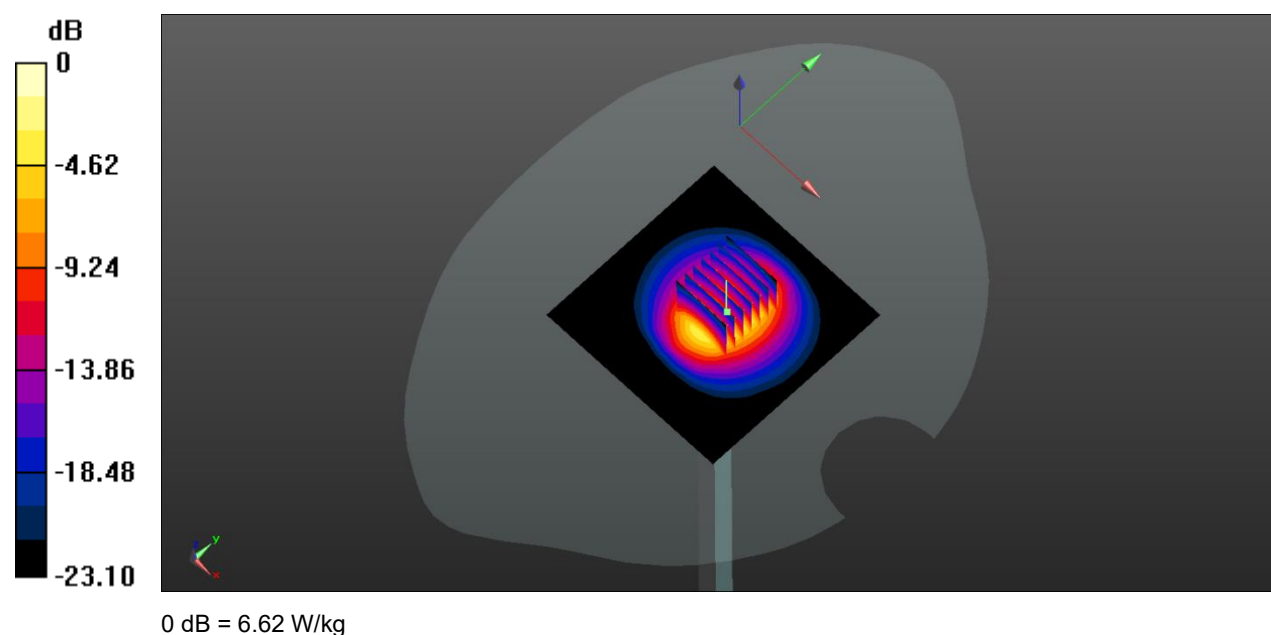
CW 2600/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 50.43 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 11.3 W/kg

SAR(1 g) = 5.58 W/kg; SAR(10 g) = 2.47 W/kg

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



System Performance Check Data (5250MHz)

Date: 2024.03.19

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

Medium parameters used: $f = 5250$ MHz; $\sigma = 4.7$ S/m; $\epsilon_r = 35.812$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.2°C Liquid Temperature: 21.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(5.48, 5.48, 5.48); Calibrated: 2023.06.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

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

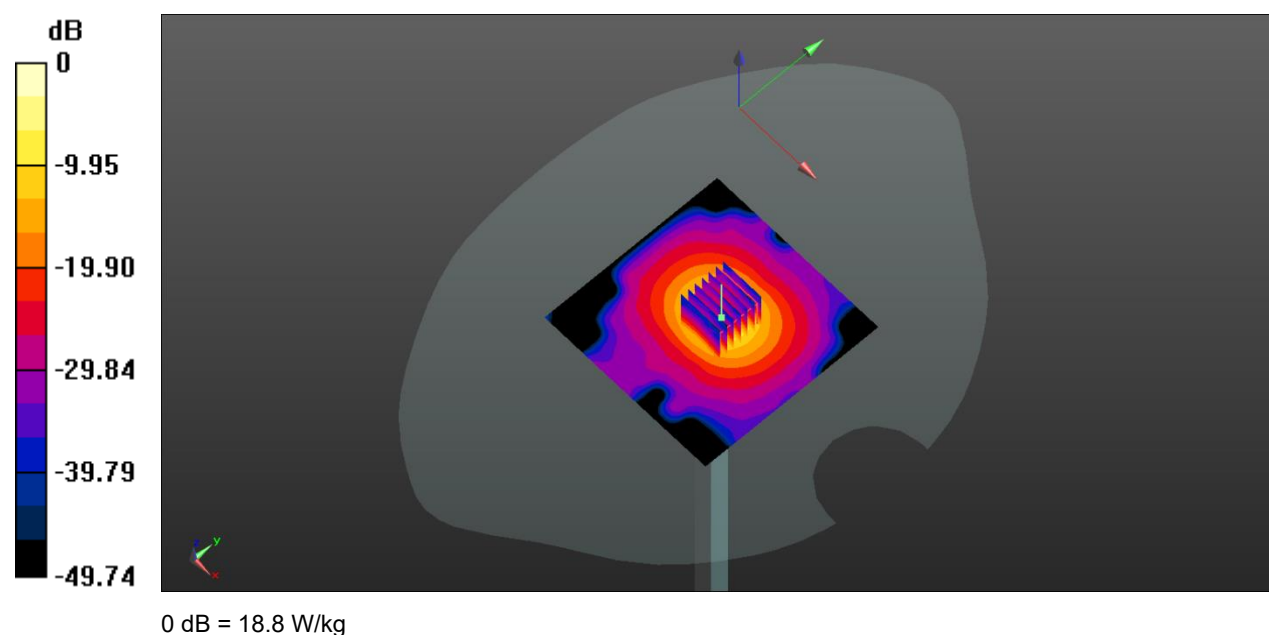
CW 5250/Zoom Scan (7x7x15)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 36.52 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 31.8 W/kg

SAR(1 g) = 7.66 W/kg; SAR(10 g) = 2.17 W/kg

Maximum value of SAR (measured) = 18.8 W/kg



System Performance Check Data (5750MHz)

Date: 2024.03.20

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

Medium parameters used: $f = 5750$ MHz; $\sigma = 5.171$ S/m; $\epsilon_r = 35.583$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.2°C Liquid Temperature: 21.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(4.95, 4.95, 4.95); Calibrated: 2023.06.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 8.93 W/kg

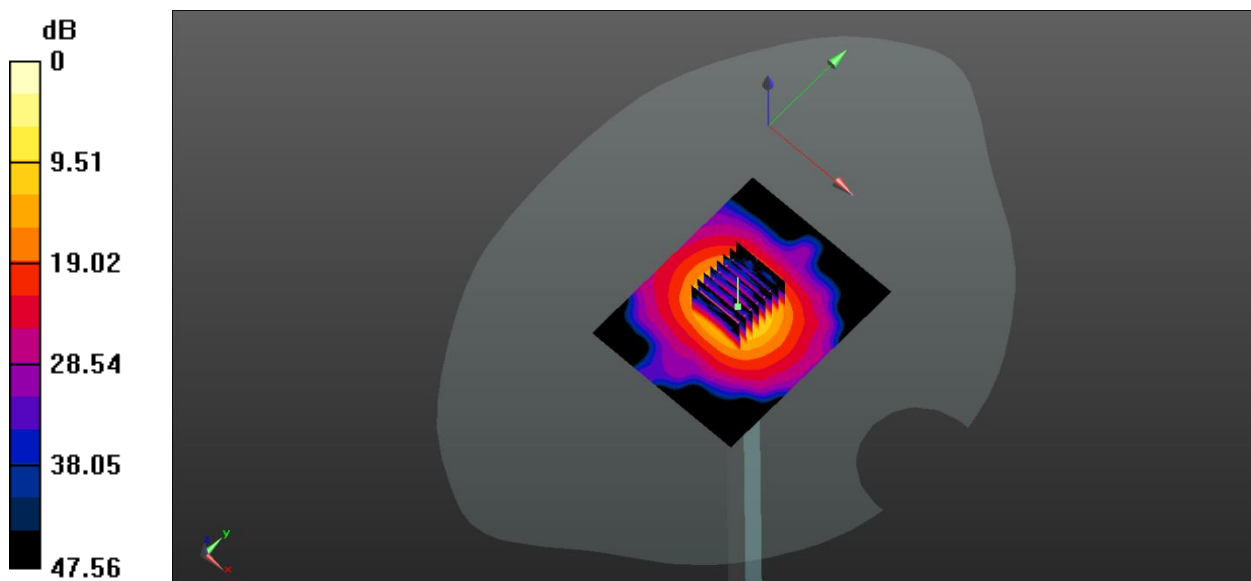
CW 5750/Zoom Scan (7x7x15)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 40.15 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 36.7 W/kg

SAR(1 g) = 7.82 W/kg; SAR(10 g) = 2.16 W/kg

Maximum value of SAR (measured) = 16.2 W/kg



0 dB = 16.2 W/kg

ANNEX C TEST DATA

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

Date: 2024.03.11

Communication System Band: GPRS850; Frequency: 848.8 MHz; Duty Cycle: 1:4.1

Medium parameters used (interpolated): $f = 848.8$ MHz; $\sigma = 0.911$ S/m; $\epsilon_r = 41.27$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature: 22.5°C Liquid Temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(10.35, 10.35, 10.35); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

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

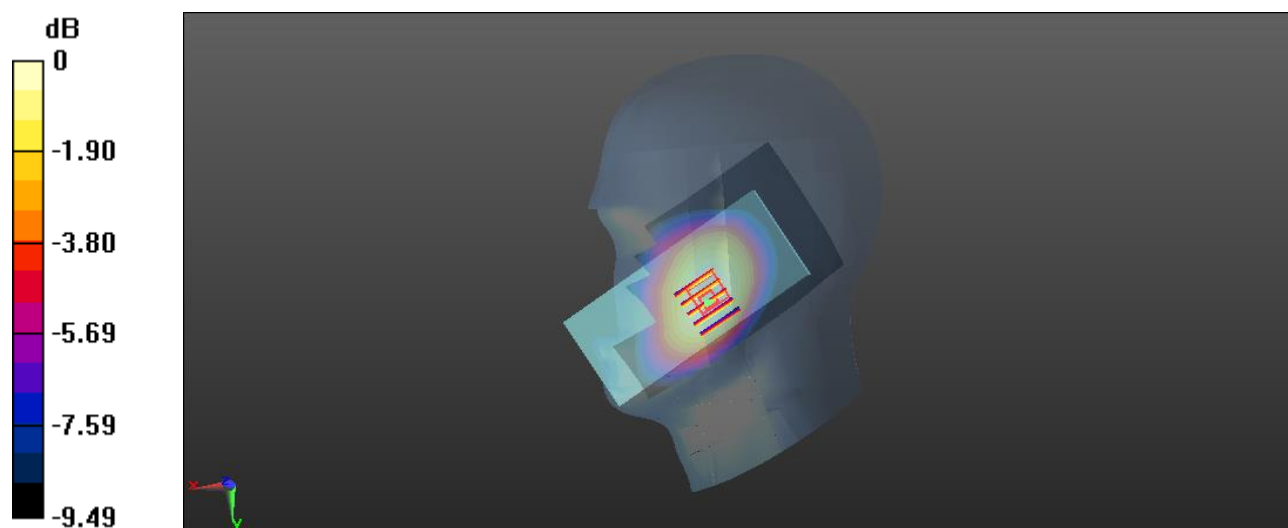
Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.758 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.434 W/kg

SAR(1 g) = 0.343 W/kg; SAR(10 g) = 0.266 W/kg

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



0 dB = 0.361 W/kg

Meas.2 Body Plane with Left Edge 10mm on High Channel in GPRS850 2Slots mode with Antenna 1

Date: 2024.03.11

Communication System Band: GPRS850; Frequency: 848.8 MHz; Duty Cycle: 1:4.1

Medium parameters used (interpolated): $f = 848.8$ MHz; $\sigma = 0.911$ S/m; $\epsilon_r = 41.27$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.5°C Liquid Temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(10.35, 10.35, 10.35); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch251/Area Scan (51x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.406 W/kg

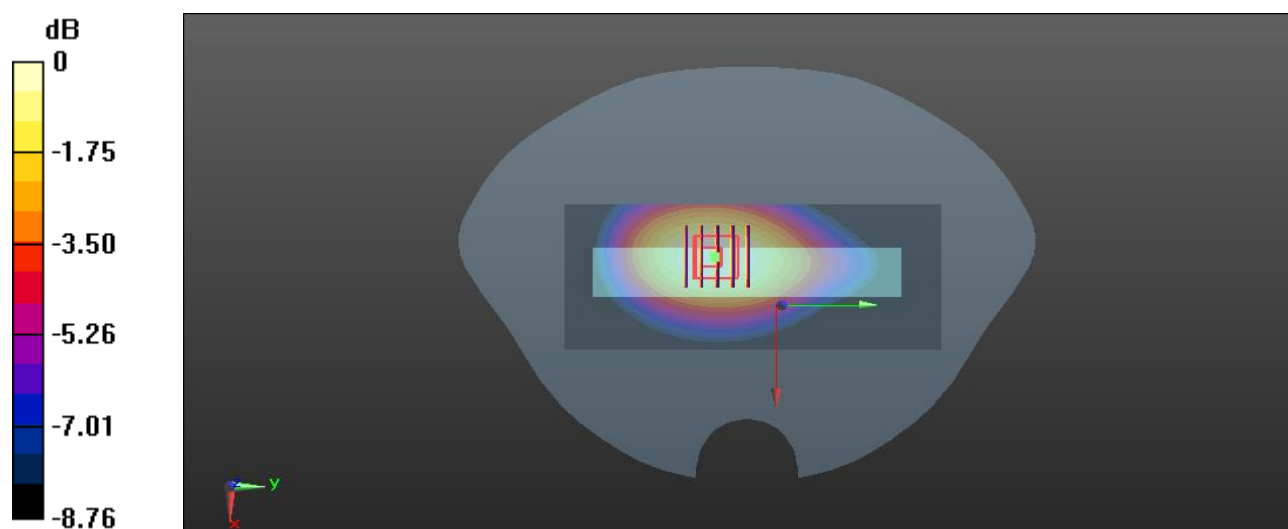
Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.32 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.506 W/kg

SAR(1 g) = 0.369 W/kg; SAR(10 g) = 0.262 W/kg

Maximum value of SAR (measured) = 0.392 W/kg



0 dB = 0.392 W/kg

Meas.3 Body Plane with Front Side 0mm on High Channel in GPRS850 2Slots mode with Antenna 1

Date: 2024.03.11

Communication System Band: GPRS850; Frequency: 848.8 MHz; Duty Cycle: 1:4.1

Medium parameters used (interpolated): $f = 848.8$ MHz; $\sigma = 0.911$ S/m; $\epsilon_r = 41.27$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.5°C Liquid Temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(10.35, 10.35, 10.35); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch251/Area Scan (71x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

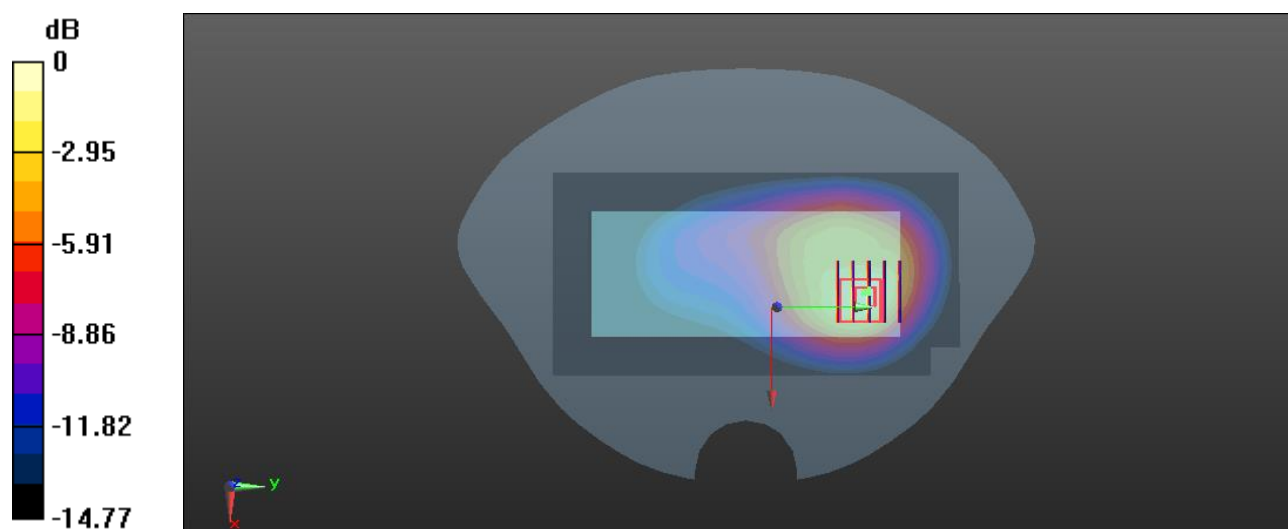
Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.05 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 2.25 W/kg

SAR(1 g) = 1.07 W/kg; SAR(10 g) = 0.588 W/kg

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



0 dB = 1.19 W/kg

Meas.4 Left Head with Cheek on Low Channel in GPRS1900 2Slotsmode with Antenna 1

Date: 2024.03.13

Communication System Band: GPRS1900; Frequency: 1850.2 MHz; Duty Cycle: 1:4.1

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.354$ S/m; $\epsilon_r = 41.028$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature: 22.6°C Liquid Temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.56, 8.56, 8.56); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

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

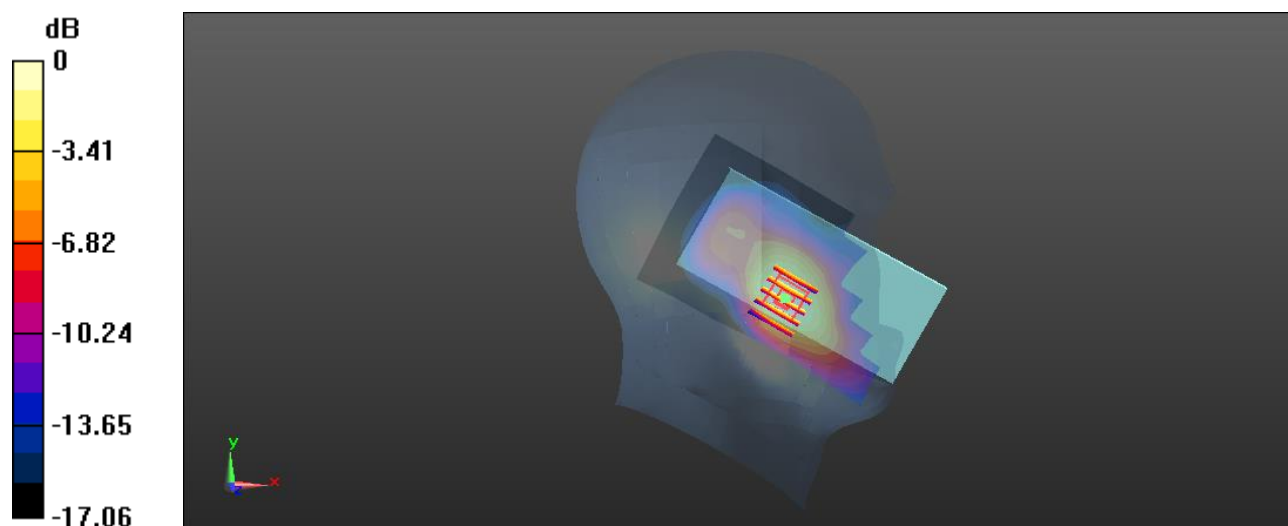
Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.082 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.600 W/kg

SAR(1 g) = 0.404 W/kg; SAR(10 g) = 0.255 W/kg

Maximum value of SAR (measured) = 0.436 W/kg



0 dB = 0.436 W/kg

Meas.5 Body Plane with Front Side 10mm on Low Channel in GPRS1900 2Slots mode with Antenna 1

Date: 2024.03.13

Communication System Band: GPRS1900; Frequency: 1850.2 MHz; Duty Cycle: 1:4.1

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.354$ S/m; $\epsilon_r = 41.028$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.6°C Liquid Temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.56, 8.56, 8.56); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch512/Area Scan (71x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.340 W/kg

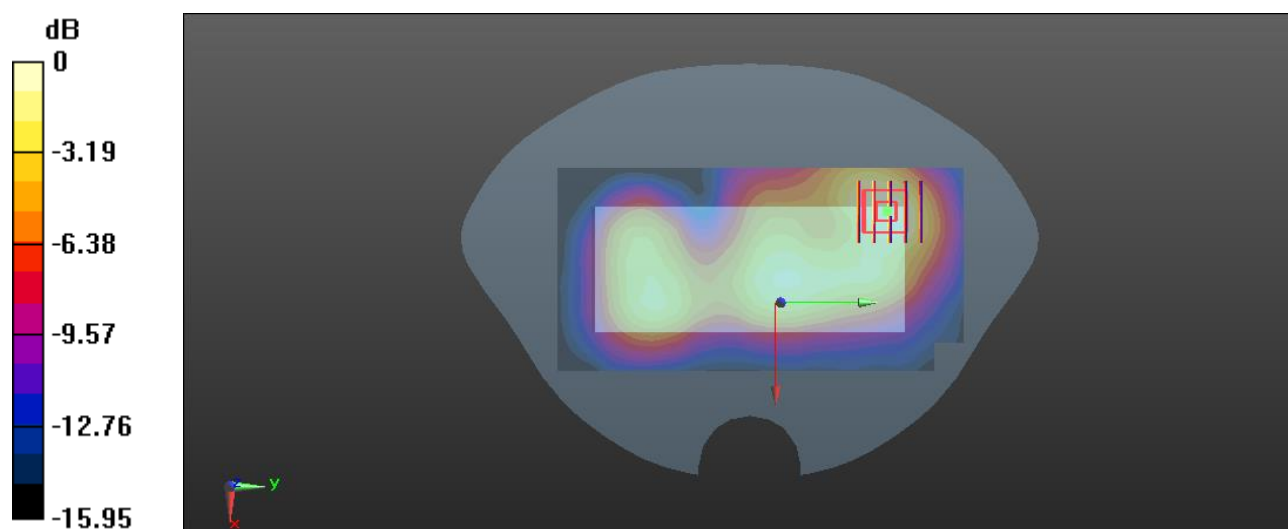
Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.50 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.496 W/kg

SAR(1 g) = 0.303 W/kg; SAR(10 g) = 0.179 W/kg

Maximum value of SAR (measured) = 0.333 W/kg



0 dB = 0.333 W/kg

Meas.6 Body Plane with Front Side 0mm on Low Channel in GPRS1900 2Slots mode with Antenna 1

Date: 2024.03.13

Communication System Band: GPRS1900; Frequency: 1850.2 MHz; Duty Cycle: 1:4.1

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.354$ S/m; $\epsilon_r = 41.028$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.6°C Liquid Temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.56, 8.56, 8.56); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch512/Area Scan (71x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.92 W/kg

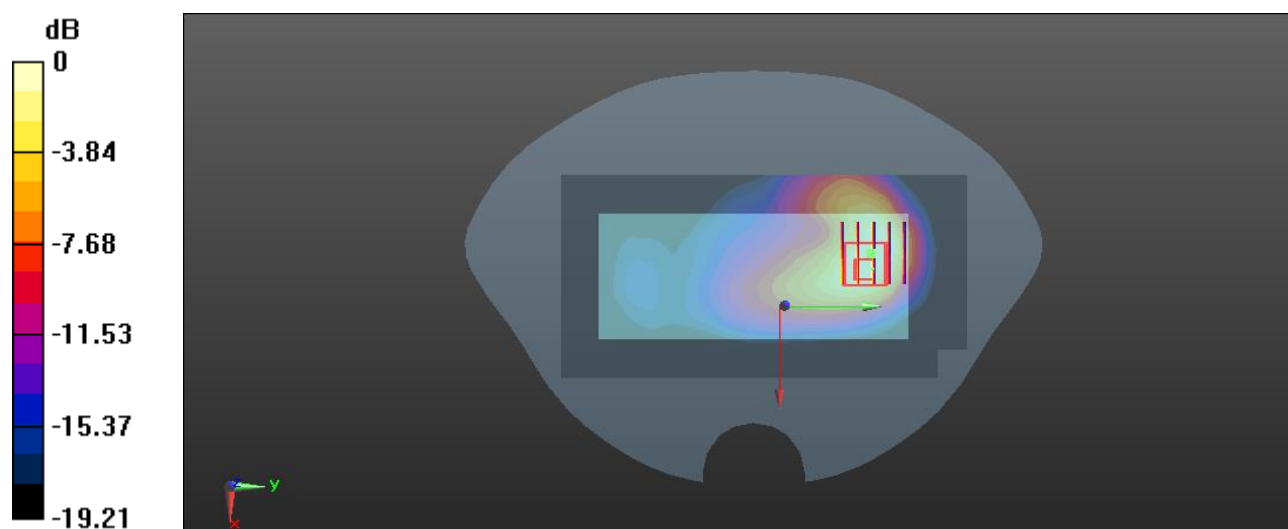
Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.87 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 4.17 W/kg

SAR(1 g) = 2.45 W/kg; SAR(10 g) = 1.36 W/kg

Maximum value of SAR (measured) = 2.63 W/kg



0 dB = 2.63 W/kg

Meas.7 Left Head with Cheek on Middle Channel in WCDMA Band2 mode with Antenna 1

Date: 2024.03.14

Communication System Band: Band2; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.389$ S/m; $\epsilon_r = 40.187$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature: 22.1°C Liquid Temperature: 21.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.56, 8.56, 8.56); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch9400/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.641 W/kg

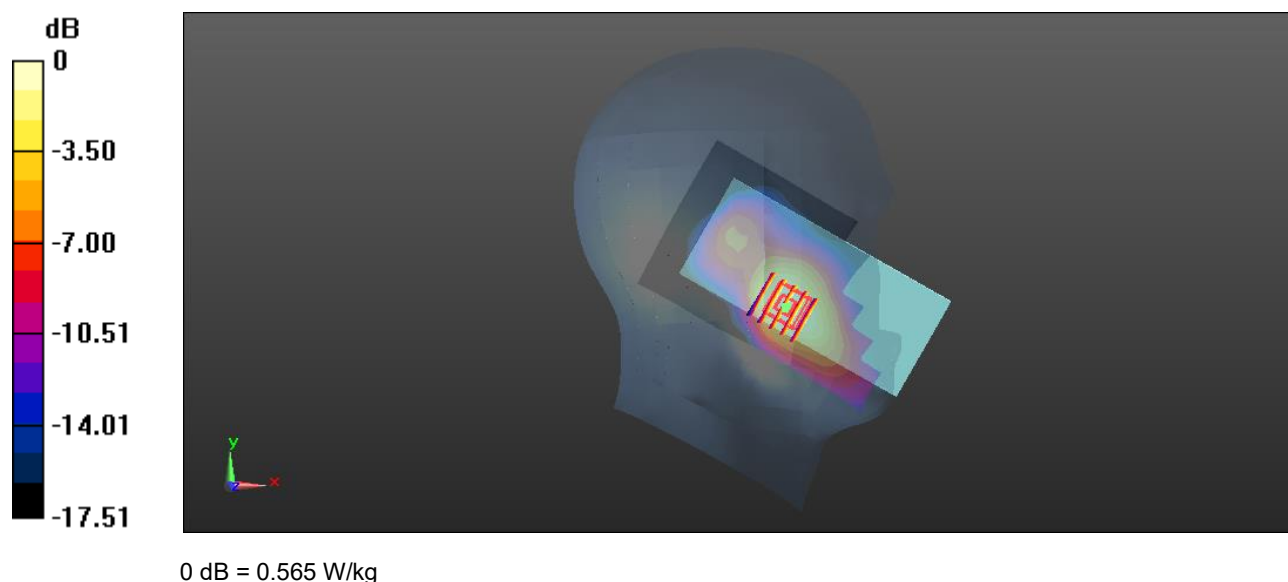
Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.046 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.779 W/kg

SAR(1 g) = 0.513 W/kg; SAR(10 g) = 0.315 W/kg

Maximum value of SAR (measured) = 0.565 W/kg



Meas.8 Body Plane with Front Side 10mm on Middle Channel in WCDMA Band2 mode with Antenna 1

Date: 2024.03.14

Communication System Band: Band2; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.389$ S/m; $\epsilon_r = 40.187$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.1°C Liquid Temperature: 21.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.56, 8.56, 8.56); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch9400/Area Scan (71x141x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.480 W/kg

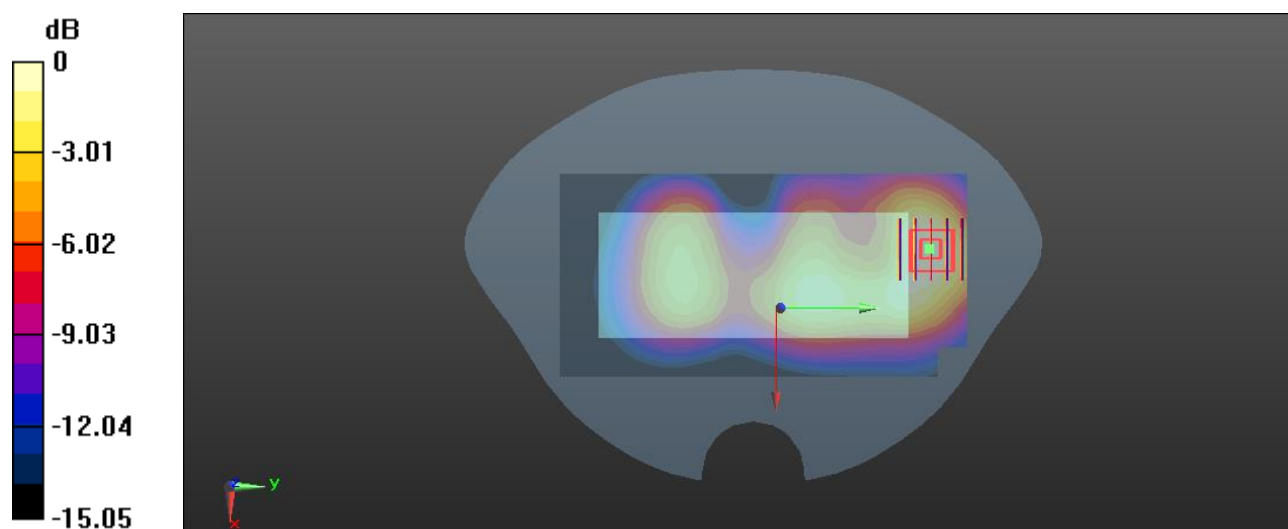
Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 8.433 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.695 W/kg

SAR(1 g) = 0.417 W/kg; SAR(10 g) = 0.243 W/kg

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



Meas.9 Body Plane with Front Side 0mm on Middle Channel in WCDMA Band2 mode with Antenna 1

Date: 2024.03.14

Communication System Band: Band2; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.389$ S/m; $\epsilon_r = 40.187$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.1°C Liquid Temperature: 21.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.56, 8.56, 8.56); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch9400/Area Scan (71x141x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 3.13 W/kg

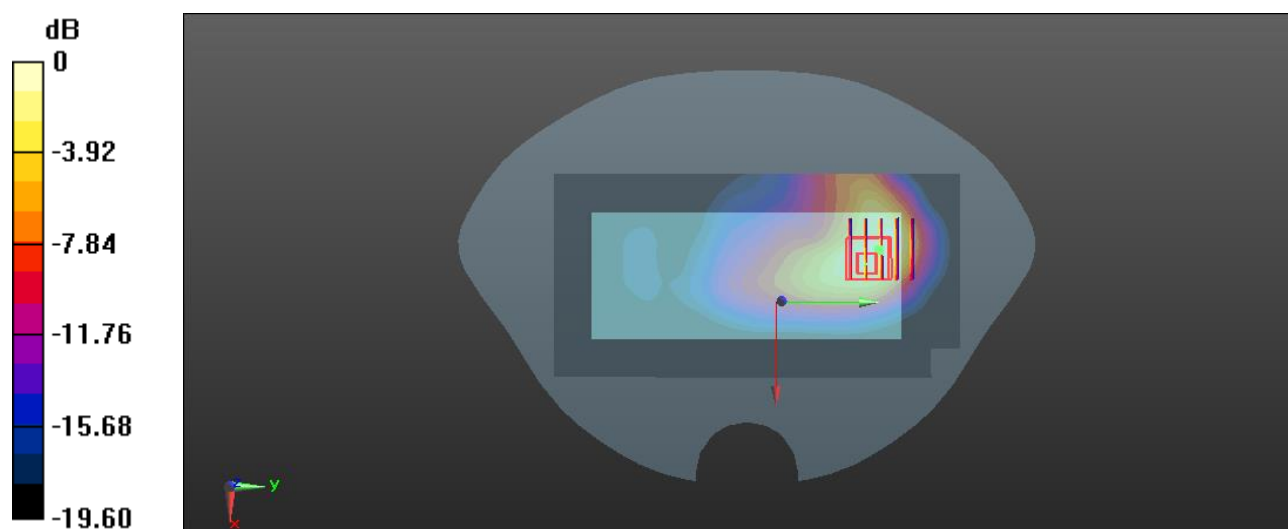
Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 14.72 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 4.41 W/kg

SAR(1 g) = 2.65 W/kg; SAR(10 g) = 1.47 W/kg

Maximum value of SAR (measured) = 2.99 W/kg



0 dB = 2.99 W/kg

Meas.10 Left Head with Cheek on Low Channel in WCDMA Band4 mode with Antenna 1

Date: 2024.03.12

Communication System Band: Band 4; Frequency: 1712.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1712.4$ MHz; $\sigma = 1.336$ S/m; $\epsilon_r = 40.592$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature: 22.3°C Liquid Temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.99, 8.99, 8.99); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch1312/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.405 W/kg

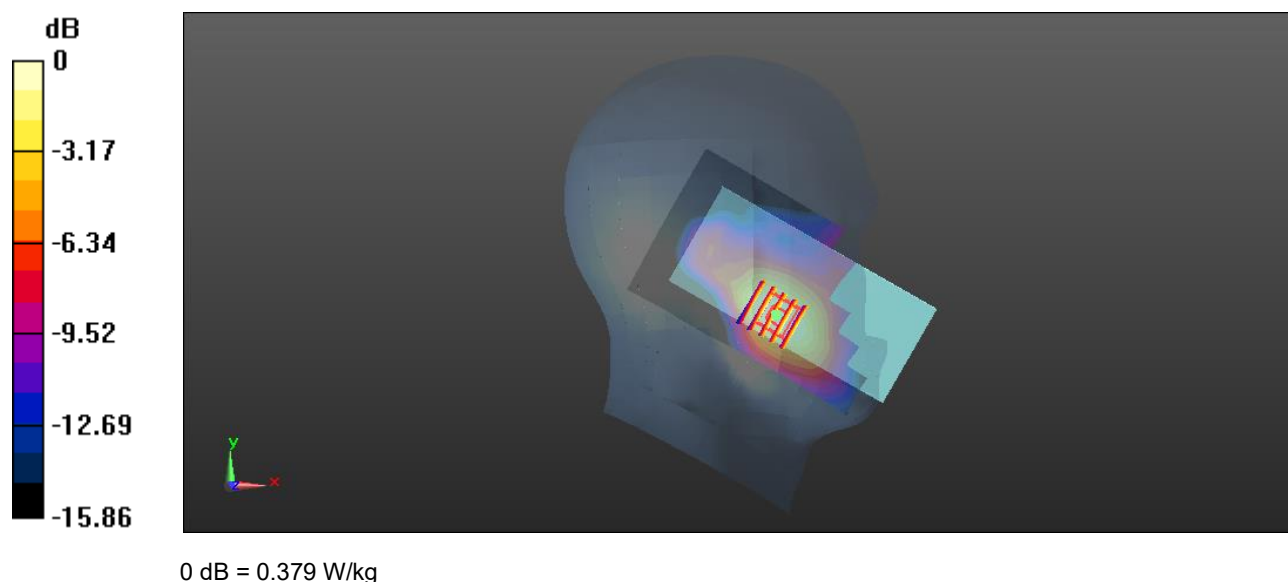
Ch1312/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.031 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.512 W/kg

SAR(1 g) = 0.347 W/kg; SAR(10 g) = 0.223 W/kg

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



Meas.11 Body Plane with Front Side 10mm on Low Channel in WCDMA Band4 mode with Antenna 1

Date: 2024.03.12

Communication System Band: Band 4; Frequency: 1712.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1712.4$ MHz; $\sigma = 1.336$ S/m; $\epsilon_r = 40.592$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3°C Liquid Temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.99, 8.99, 8.99); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch1312/Area Scan (71x131x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.311 W/kg

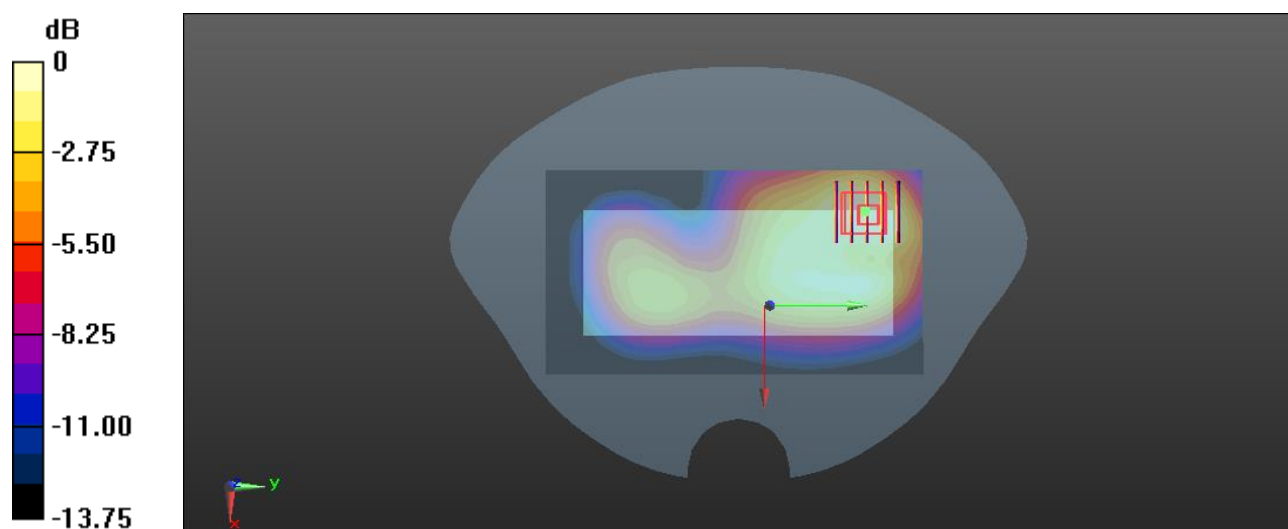
Ch1312/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 9.747 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.469 W/kg

SAR(1 g) = 0.288 W/kg; SAR(10 g) = 0.177 W/kg

Maximum value of SAR (measured) = 0.308 W/kg



0 dB = 0.308 W/kg

Meas.12 Body Plane with Front Side 0mm on Low Channel in WCDMA Band4 mode with Antenna 1

Date: 2024.03.12

Communication System Band: Band 4; Frequency: 1712.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1712.4$ MHz; $\sigma = 1.336$ S/m; $\epsilon_r = 40.592$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3°C Liquid Temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.99, 8.99, 8.99); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch1312/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.97 W/kg

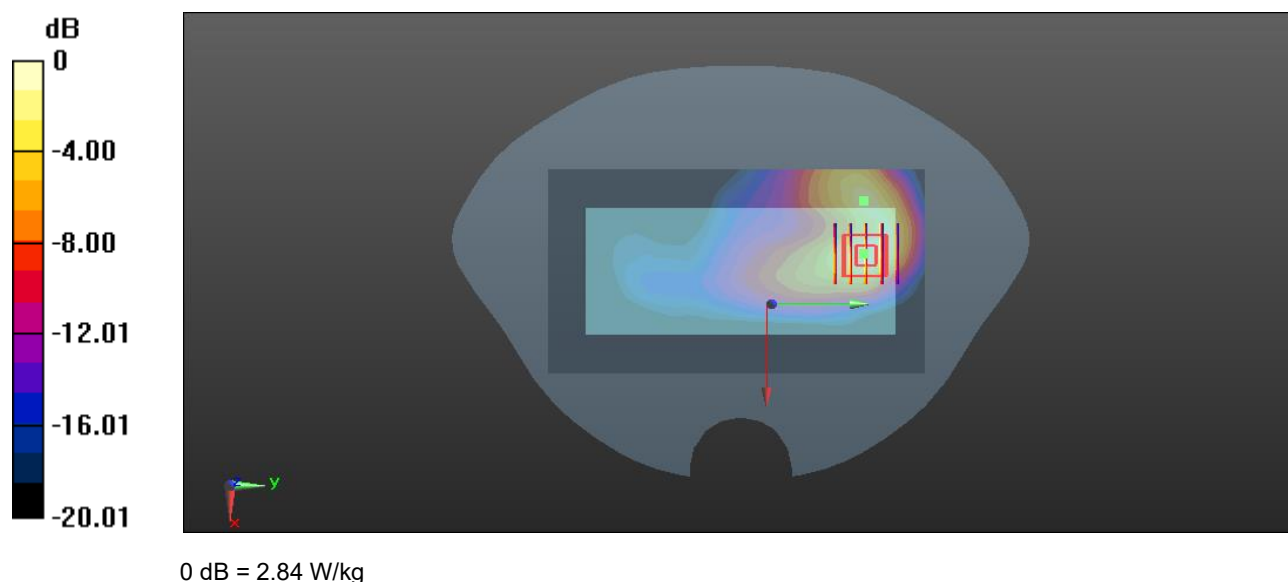
Ch1312/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.22 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 4.37 W/kg

SAR(1 g) = 2.49 W/kg; SAR(10 g) = 1.28 W/kg

Maximum value of SAR (measured) = 2.84 W/kg



Meas.13 Left Head with Cheek on Middle Channel in WCDMA Band5 mode with Antenna 1

Date: 2024.03.11

Communication System Band: Band 5; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.899$ S/m; $\epsilon_r = 41.618$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature: 22.5°C Liquid Temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(10.35, 10.35, 10.35); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

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

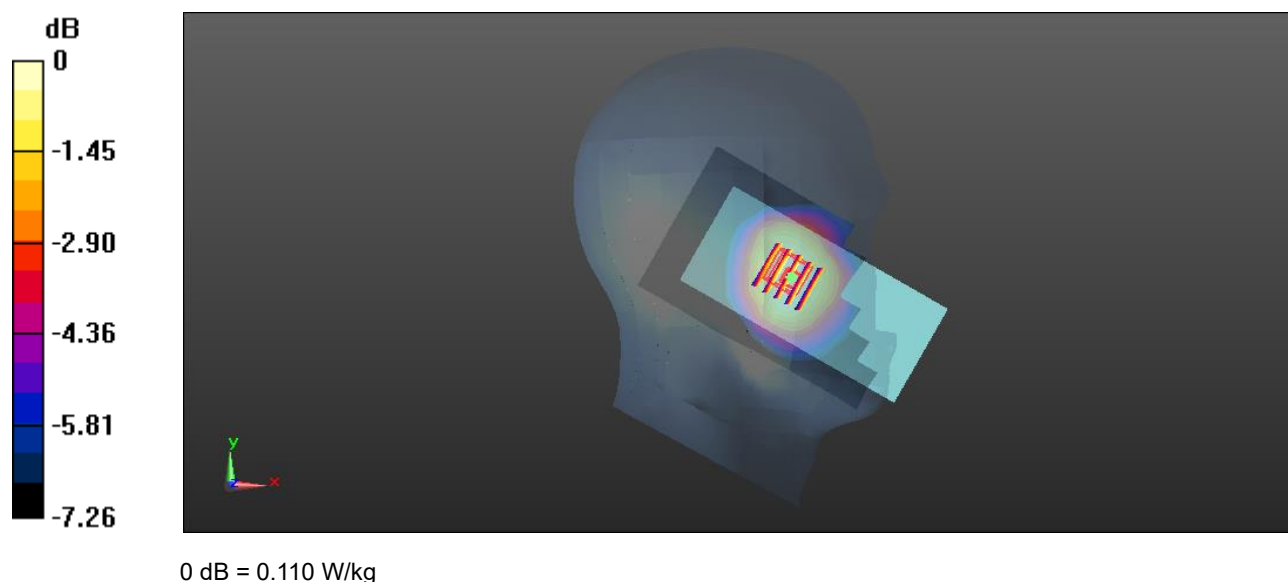
Ch4182/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 2.484 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.120 W/kg

SAR(1 g) = 0.106 W/kg; SAR(10 g) = 0.086 W/kg

Maximum value of SAR (measured) = 0.110 W/kg



Meas.14 Body Plane with Left Edge 10mm on Middle Channel in WCDMA Band5 mode with Antenna 1

Date: 2024.03.11

Communication System Band: Band 5; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.899$ S/m; $\epsilon_r = 41.618$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.5°C Liquid Temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(10.35, 10.35, 10.35); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch4182/Area Scan (51x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.201 W/kg

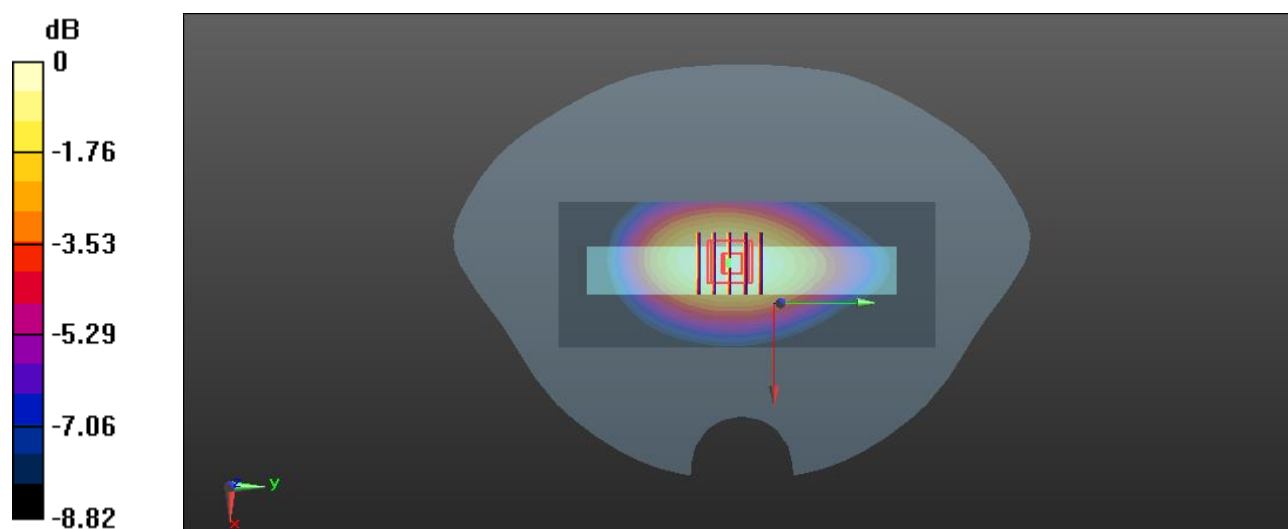
Ch4182/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.78 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.251 W/kg

SAR(1 g) = 0.186 W/kg; SAR(10 g) = 0.132 W/kg

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



0 dB = 0.197 W/kg

Meas.15 Body Plane with Front Side 0mm on Middle Channel in WCDMA Band5 mode with Antenna 1

Date: 2024.03.11

Communication System Band: Band 5; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.899$ S/m; $\epsilon_r = 41.618$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.5°C Liquid Temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(10.35, 10.35, 10.35); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch4182/Area Scan (71x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.585 W/kg

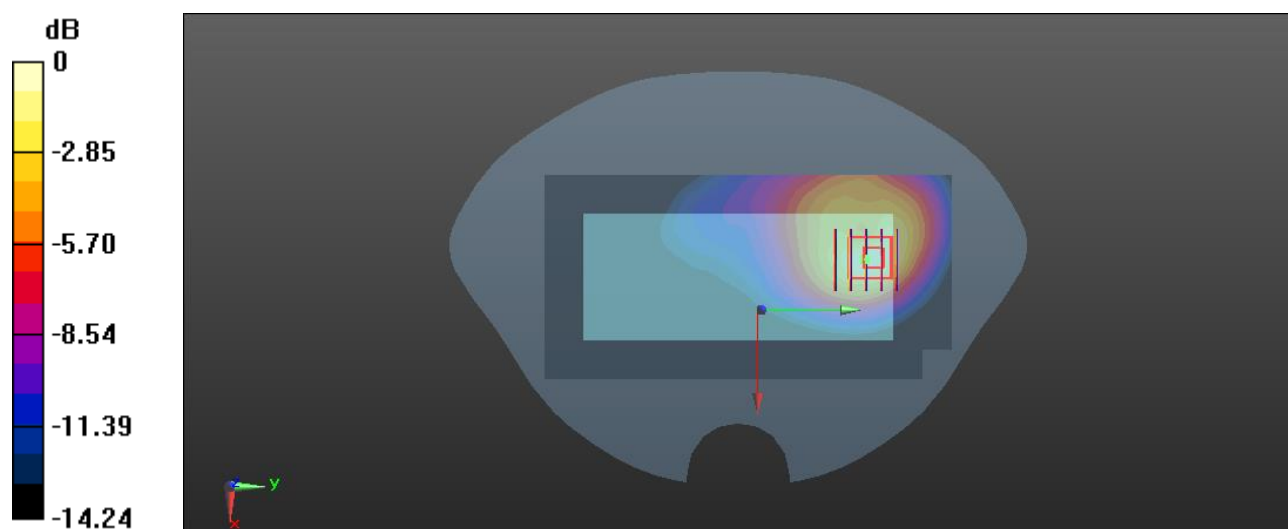
Ch4182/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.176 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.15 W/kg

SAR(1 g) = 0.555 W/kg; SAR(10 g) = 0.292 W/kg

Maximum value of SAR (measured) = 0.595 W/kg



0 dB = 0.595 W/kg

Meas.16 Left Head with Cheek on High Channel in LTE Band2 mode with Antenna 1

Date: 2024.03.14

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.399$ S/m; $\epsilon_r = 39.941$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature: 22.1°C Liquid Temperature: 21.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.56, 8.56, 8.56); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

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

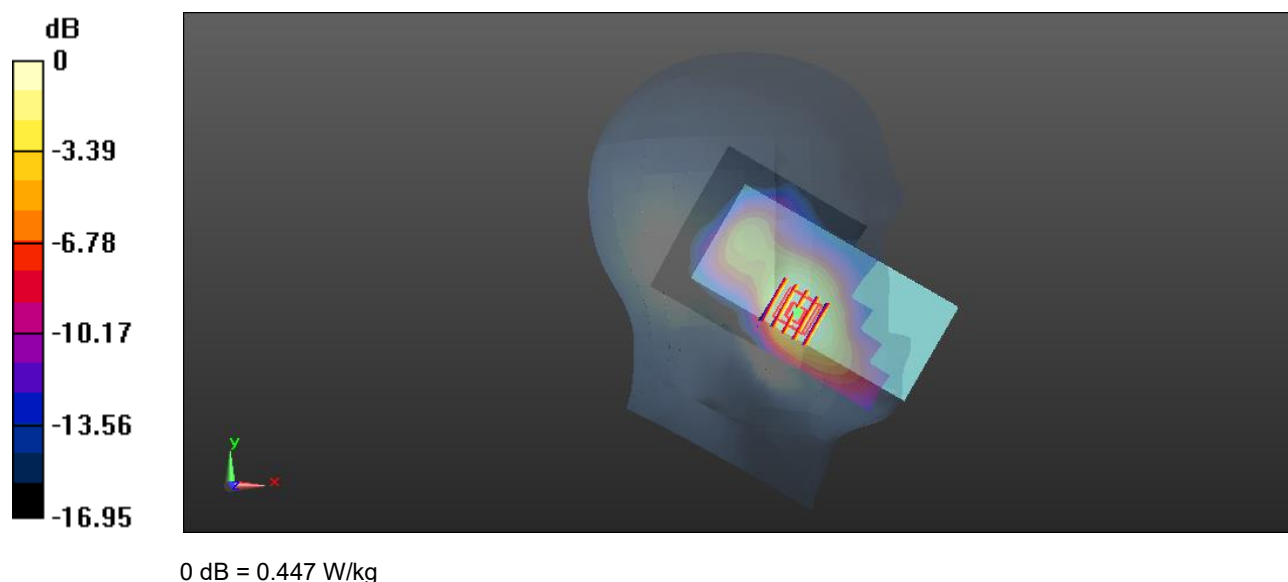
Ch19100/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.384 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.627 W/kg

SAR(1 g) = 0.417 W/kg; SAR(10 g) = 0.263 W/kg

Maximum value of SAR (measured) = 0.447 W/kg



Meas.17 Body Plane with Front Side 10mm on High Channel in LTE Band2 mode with Antenna 1

Date: 2024.03.14

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.399$ S/m; $\epsilon_r = 39.941$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.1°C Liquid Temperature: 21.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.56, 8.56, 8.56); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.601 W/kg

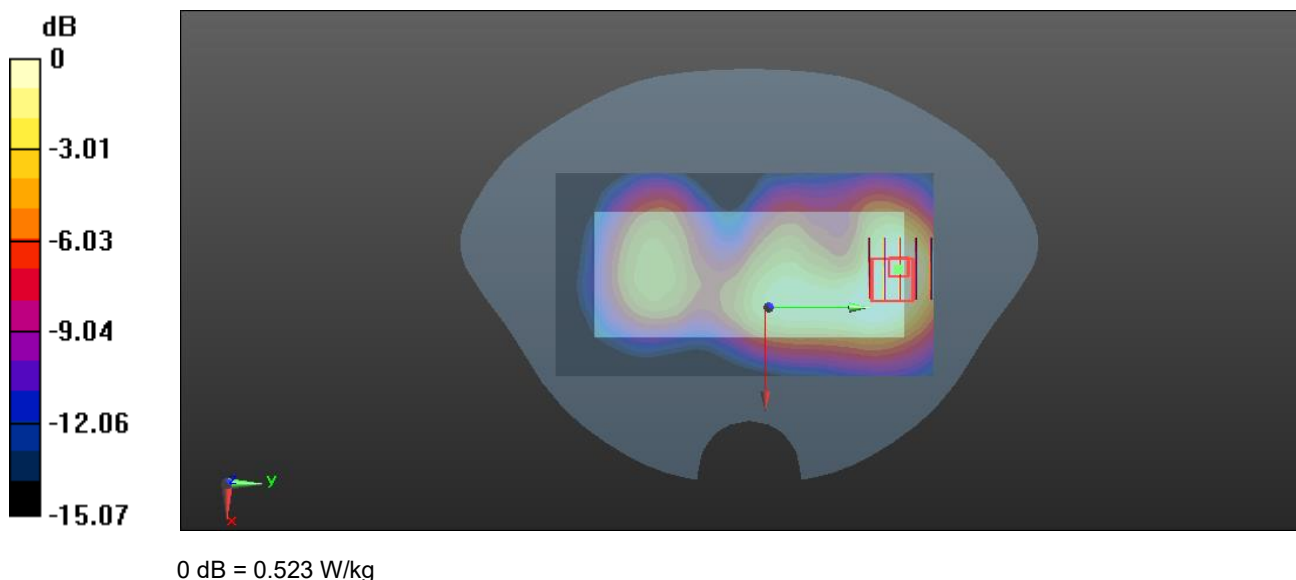
Ch19100/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 12.04 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.807 W/kg

SAR(1 g) = 0.479 W/kg; SAR(10 g) = 0.289 W/kg

Maximum value of SAR (measured) = 0.523 W/kg



Meas.18 Body Plane with Front Side 0mm on High Channel in LTE Band2 mode with Antenna 1

Date: 2024.03.14

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.399$ S/m; $\epsilon_r = 39.941$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.1°C Liquid Temperature: 21.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.56, 8.56, 8.56); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 3.55 W/kg

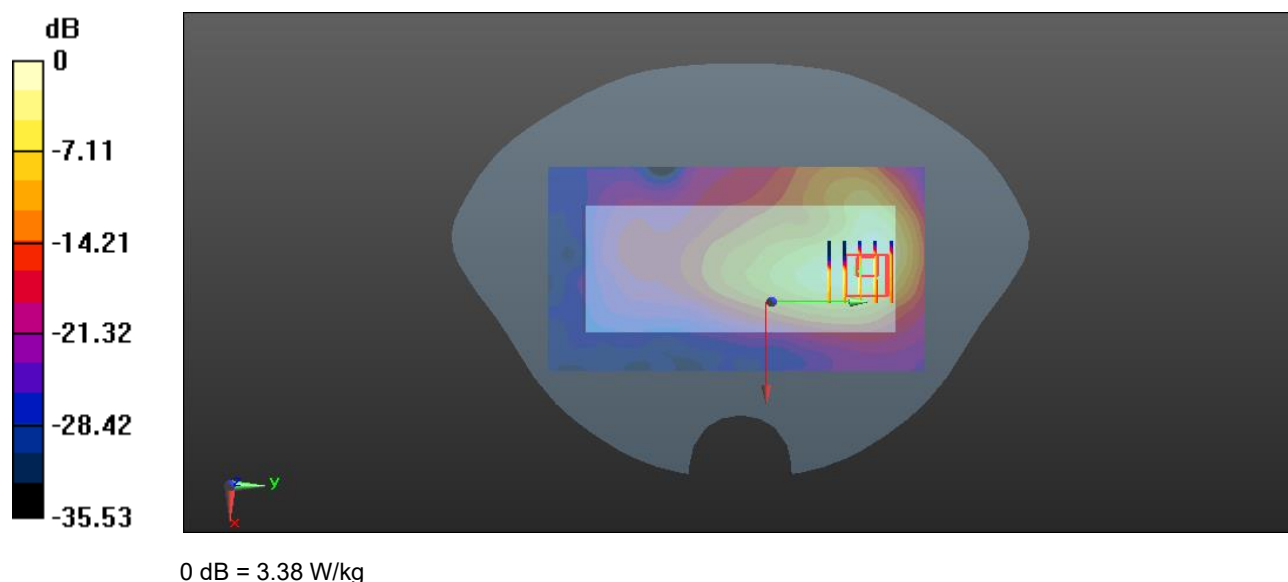
Ch19100/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.23 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 12.5 W/kg

SAR(1 g) = 4.12 W/kg; SAR(10 g) = 1.59 W/kg

Maximum value of SAR (measured) = 3.38 W/kg



Meas.19 Left Head with Cheek on Middle Channel in LTE Band4 mode with Antenna 1

Date: 2024.03.12

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

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.353$ S/m; $\epsilon_r = 40.303$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature: 22.3°C Liquid Temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.99, 8.99, 8.99); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.364 W/kg

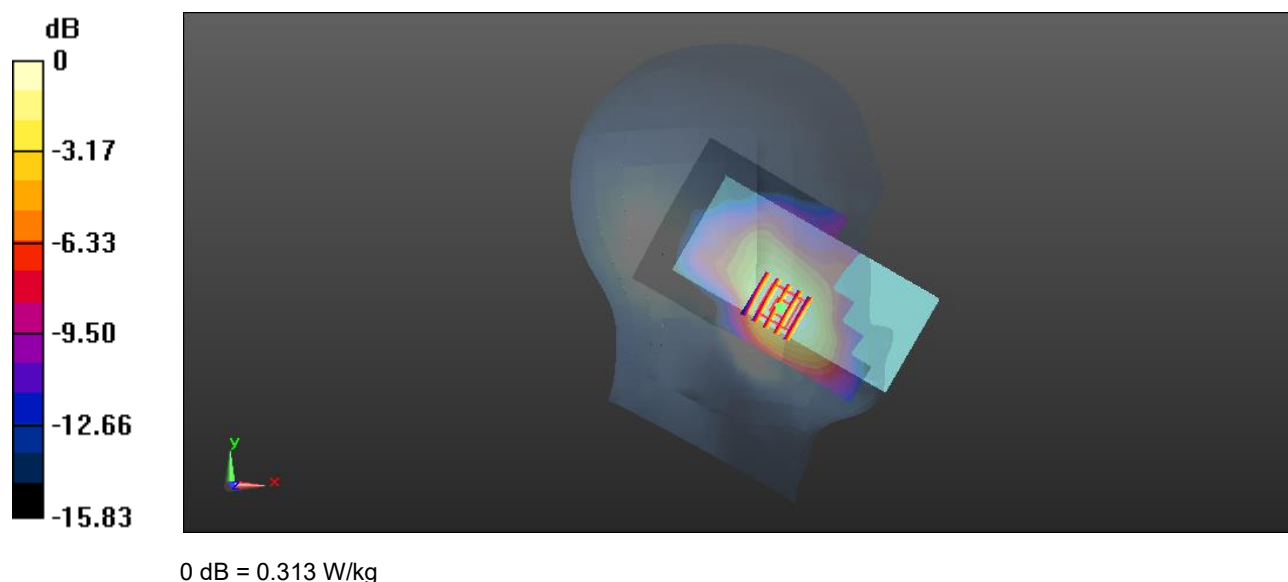
Ch20175/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 4.531 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.415 W/kg

SAR(1 g) = 0.289 W/kg; SAR(10 g) = 0.190 W/kg

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



Meas.20 Body Plane with Front Side 10mm on Middle Channel in LTE Band4 mode with Antenna 1

Date: 2024.03.12

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

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.353$ S/m; $\epsilon_r = 40.303$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3°C Liquid Temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.99, 8.99, 8.99); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.503 W/kg

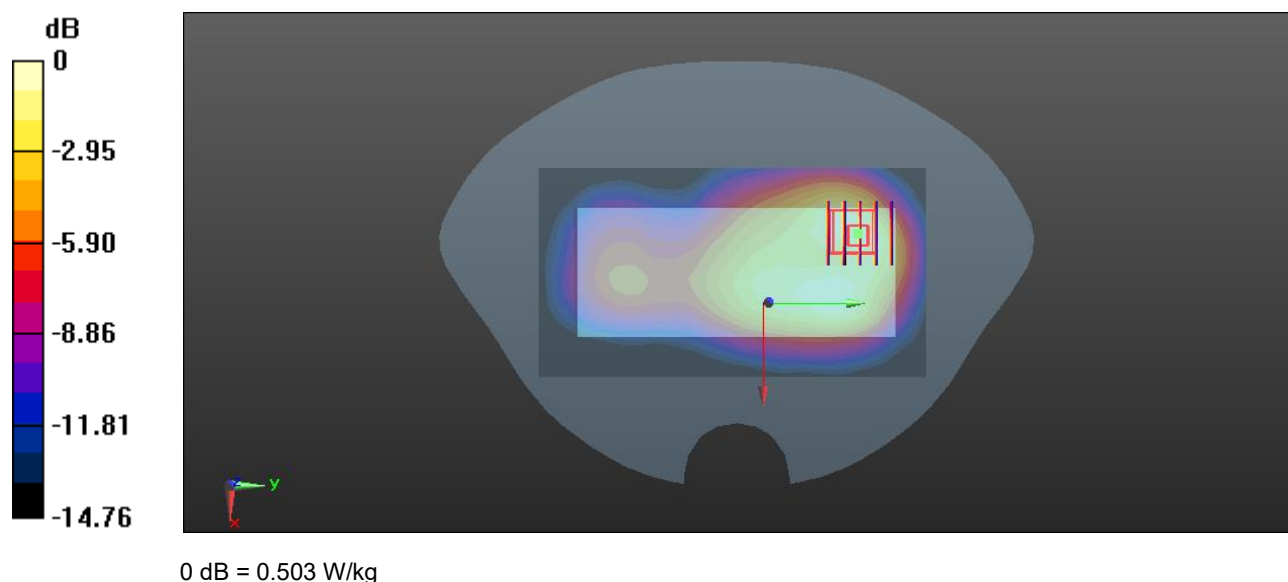
Ch20175/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.93 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.750 W/kg

SAR(1 g) = 0.459 W/kg; SAR(10 g) = 0.276 W/kg

Maximum value of SAR (measured) = 0.503 W/kg



Meas.21 Body Plane with Front Side 0mm on Middle Channel in LTE Band4 mode with Antenna 1

Date: 2024.03.12

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

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.353$ S/m; $\epsilon_r = 40.303$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3°C Liquid Temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.99, 8.99, 8.99); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 3.71 W/kg

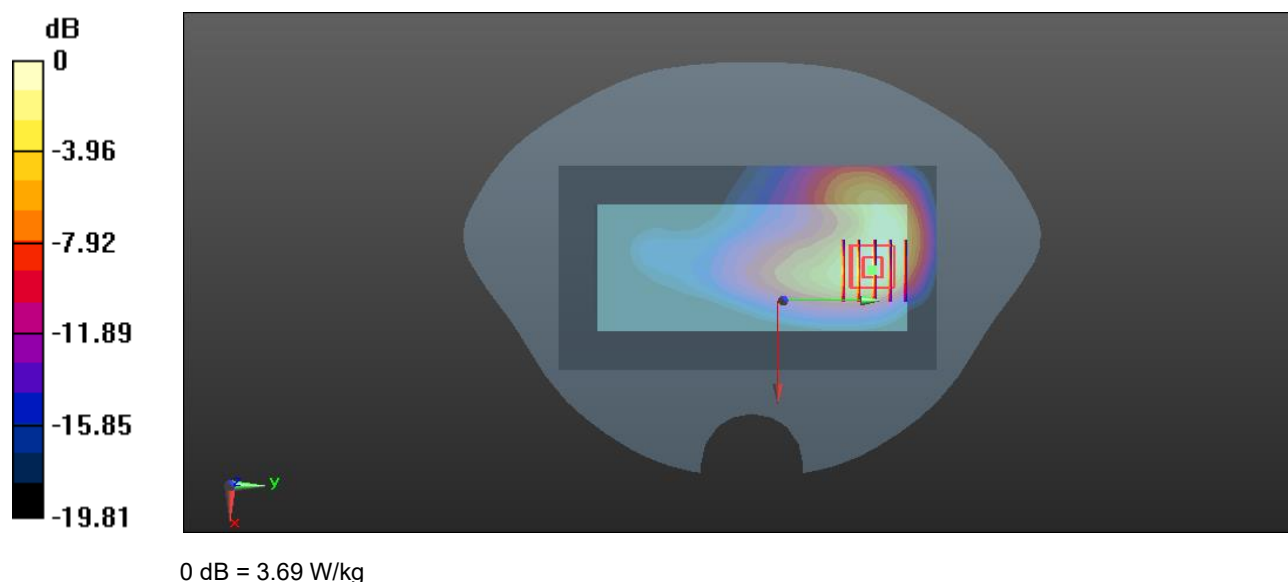
Ch20175/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.08 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 5.69 W/kg

SAR(1 g) = 3.27 W/kg; SAR(10 g) = 1.71 W/kg

Maximum value of SAR (measured) = 3.69 W/kg



Meas.22 Left Head with Cheek on Middle Channel in LTE Band5 mode with Antenna 1

Date: 2024.03.11

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

Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.899$ S/m; $\epsilon_r = 41.618$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature: 22.5°C Liquid Temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(10.35, 10.35, 10.35); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.176 W/kg

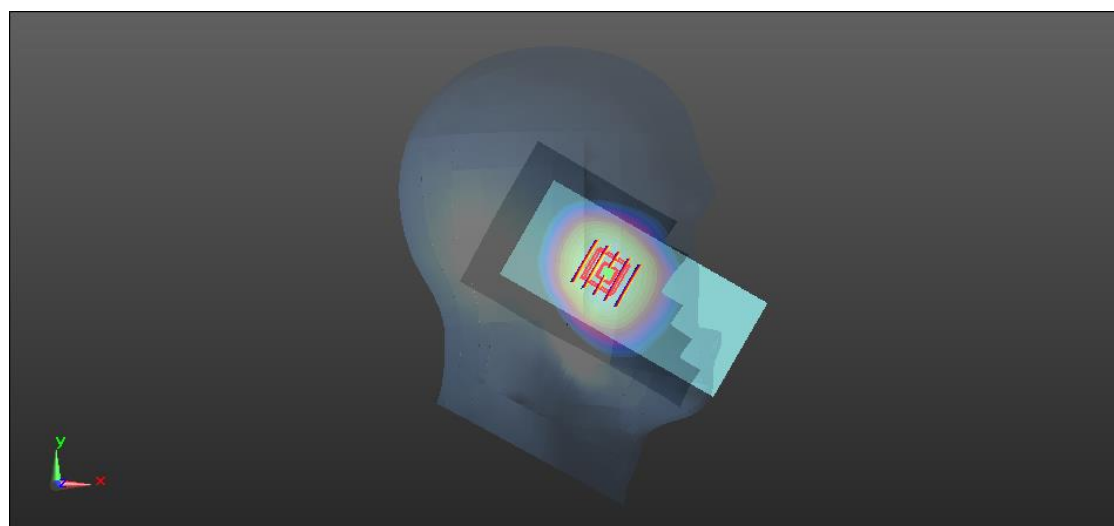
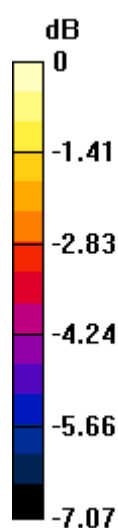
Ch20525/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.501 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.181 W/kg

SAR(1 g) = 0.161 W/kg; SAR(10 g) = 0.130 W/kg

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



0 dB = 0.167 W/kg

Meas.23 Body Plane with Left Edge 10mm on Middle Channel in LTE Band5 mode with Antenna 1

Date: 2024.03.11

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

Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.899$ S/m; $\epsilon_r = 41.618$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature: 22.5°C Liquid Temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(10.35, 10.35, 10.35); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch20525/Area Scan (51x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.225 W/kg

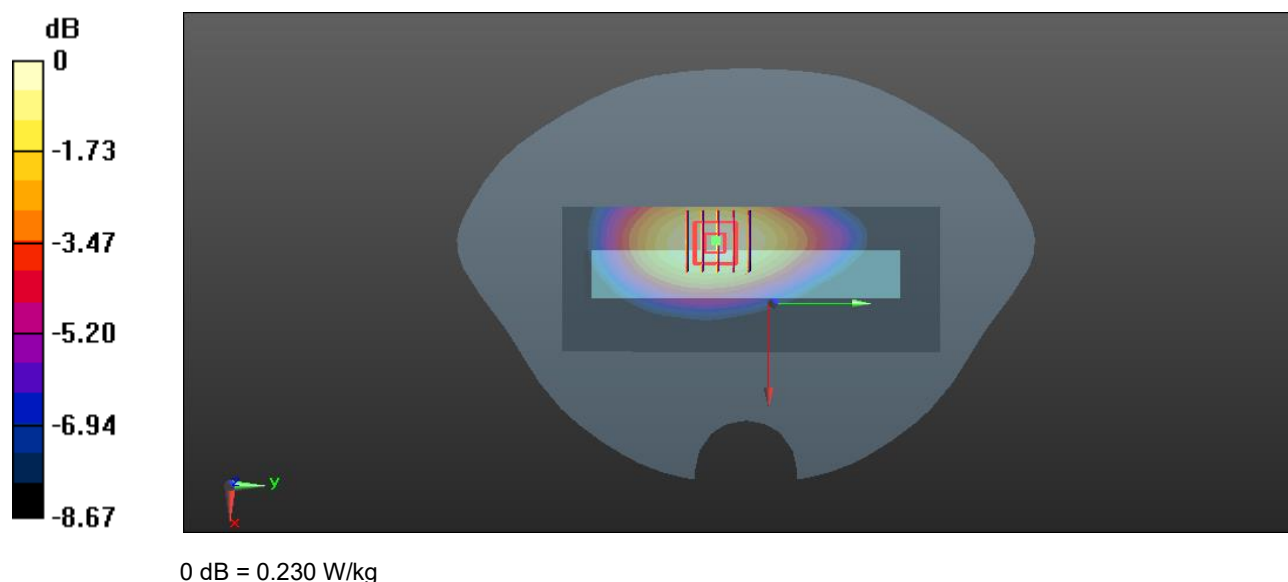
Ch20525/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.98 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.294 W/kg

SAR(1 g) = 0.215 W/kg; SAR(10 g) = 0.152 W/kg

Maximum value of SAR (measured) = 0.230 W/kg



Meas.24 Body Plane with Front Side 0mm on Middle Channel in LTE Band5 mode with Antenna 1

Date: 2024.03.11

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

Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.899$ S/m; $\epsilon_r = 41.618$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature: 22.5°C Liquid Temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(10.35, 10.35, 10.35); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.646 W/kg

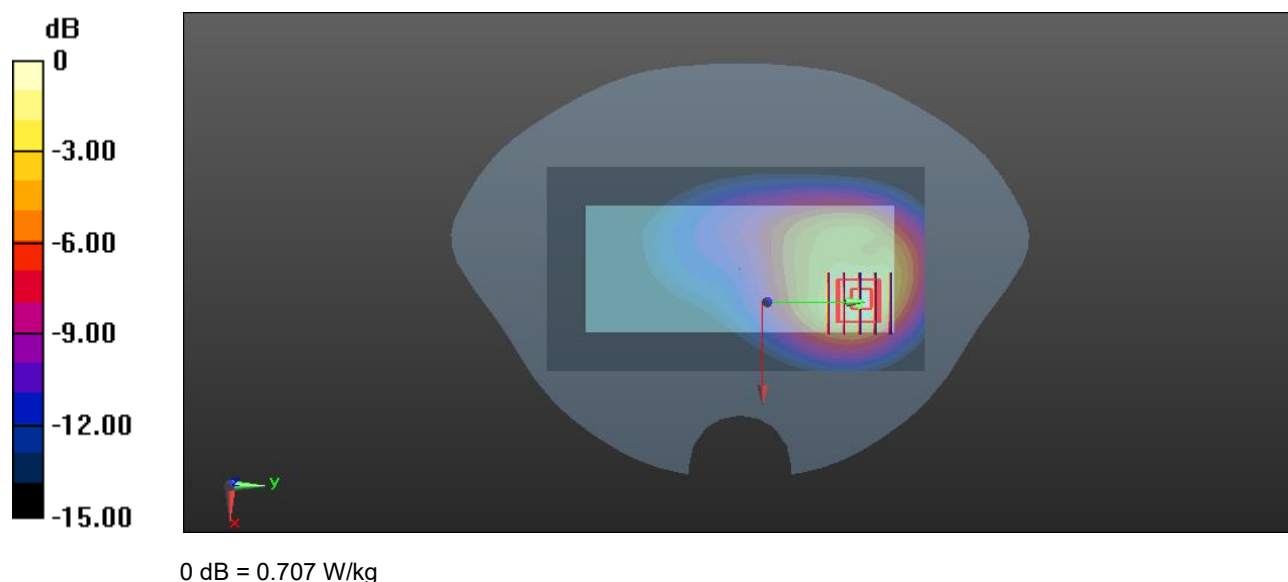
Ch20525/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 8.947 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.40 W/kg

SAR(1 g) = 0.655 W/kg; SAR(10 g) = 0.339 W/kg

Maximum value of SAR (measured) = 0.707 W/kg



Meas.25 Left Head with Cheek on Middle Channel in LTE Band7 mode with Antenna 1

Date: 2024.03.16

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

Medium parameters used (interpolated): $f = 2535$ MHz; $\sigma = 1.897$ S/m; $\epsilon_r = 38.936$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature: 22.7°C Liquid Temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.64, 7.64, 7.64); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch21100/Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0945 W/kg

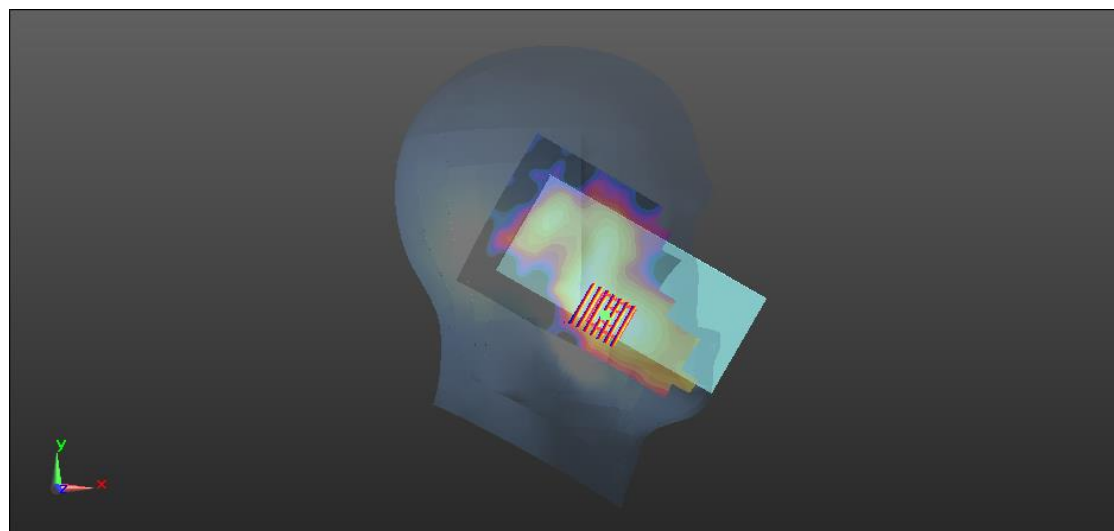
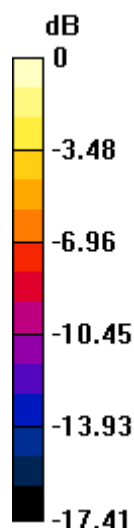
Ch21100/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.534 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.139 W/kg

SAR(1 g) = 0.082 W/kg; SAR(10 g) = 0.046 W/kg

Maximum value of SAR (measured) = 0.0901 W/kg



0 dB = 0.0901 W/kg

Meas.26 Body Plane with Bottom Edge 10mm on Middle Channel in LTE Band7 mode with Antenna 1

Date: 2024.03.16

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

Medium parameters used (interpolated): $f = 2535$ MHz; $\sigma = 1.897$ S/m; $\epsilon_r = 38.936$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature: 22.7°C Liquid Temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.64, 7.64, 7.64); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch21100/Area Scan (61x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.985 W/kg

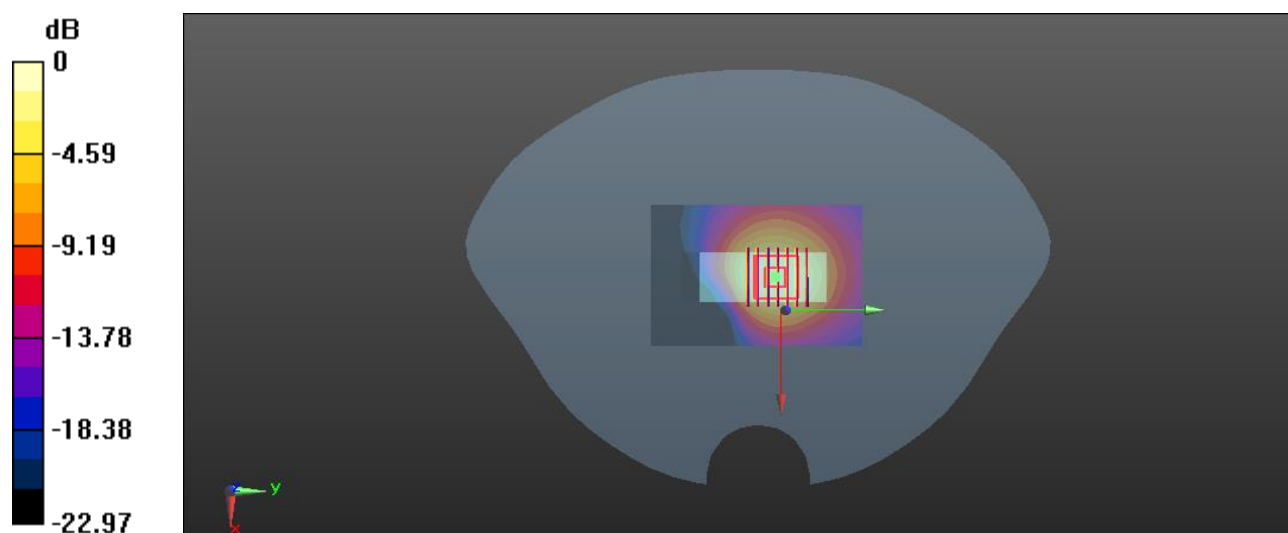
Ch21100/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.96 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.54 W/kg

SAR(1 g) = 0.818 W/kg; SAR(10 g) = 0.408 W/kg

Maximum value of SAR (measured) = 0.924 W/kg



0 dB = 0.924 W/kg

Meas.27 Body Plane with Bottom Edge 0mm on Middle Channel in LTE Band7 mode with Antenna 1

Date: 2024.03.16

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

Medium parameters used (interpolated): $f = 2535$ MHz; $\sigma = 1.897$ S/m; $\epsilon_r = 38.936$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature: 22.7°C Liquid Temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.64, 7.64, 7.64); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch21100/Area Scan (61x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 4.71 W/kg

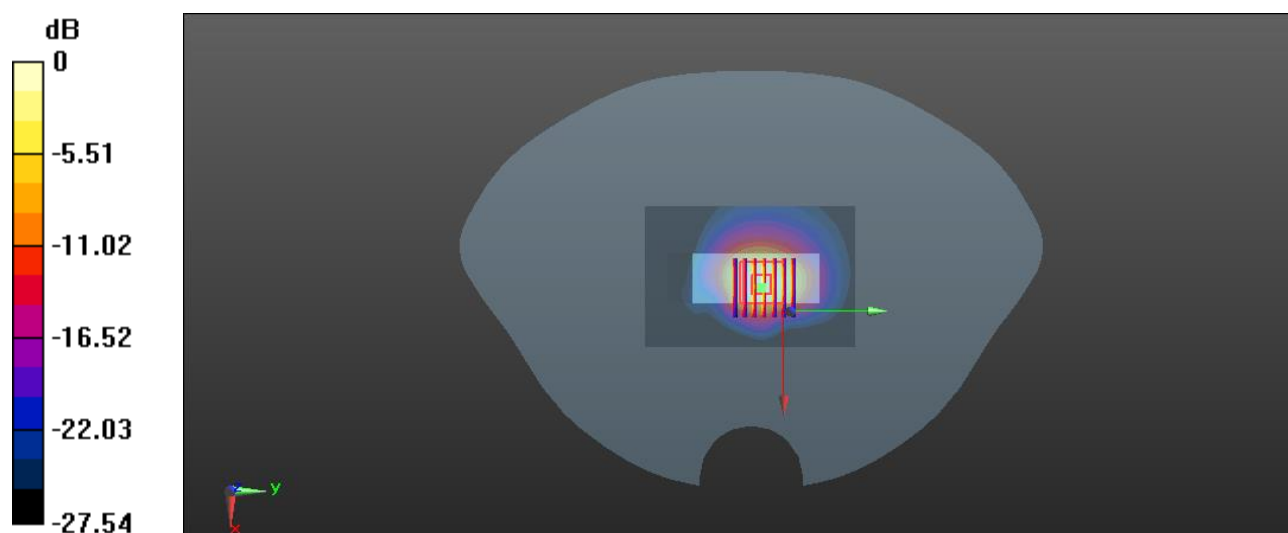
Ch21100/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 42.86 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 7.48 W/kg

SAR(1 g) = 3.41 W/kg; SAR(10 g) = 1.39 W/kg

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



0 dB = 3.96 W/kg

Meas.28 Left Head with Cheek on High Channel in LTE Band38 mode with Antenna 1

Date: 2024.03.17

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

Medium parameters used (interpolated): $f = 2610$ MHz; $\sigma = 1.977$ S/m; $\epsilon_r = 39.234$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature: 22.8°C Liquid Temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.64, 7.64, 7.64); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.0484 W/kg

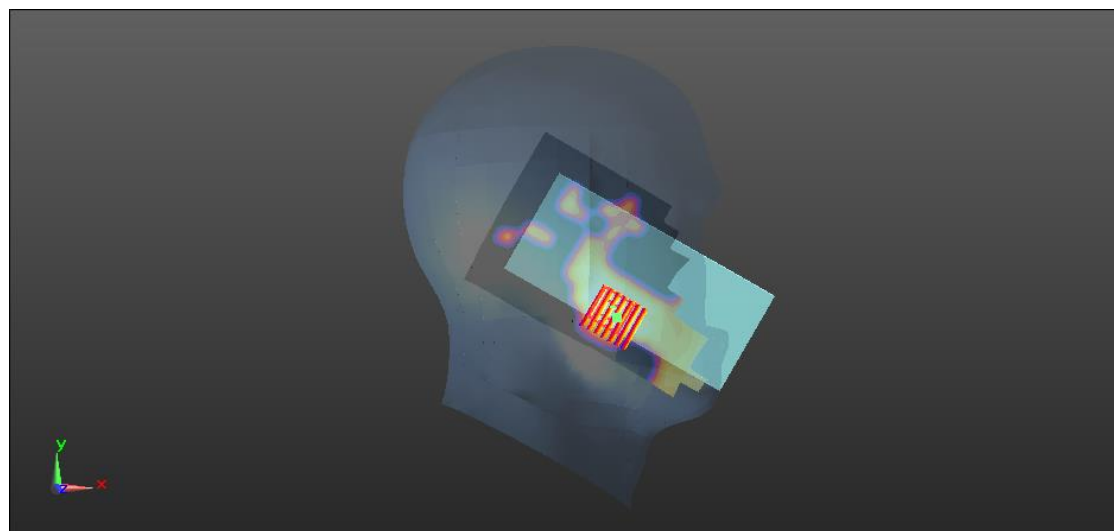
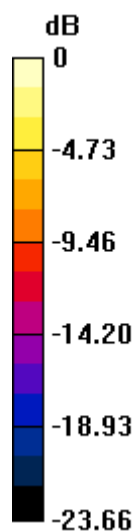
Ch38150/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.239 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.0660 W/kg

SAR(1 g) = 0.037 W/kg; SAR(10 g) = 0.019 W/kg

Maximum value of SAR (measured) = 0.0402 W/kg



0 dB = 0.0402 W/kg

Meas.29 Body Plane with Bottom Edge 10mm on High Channel in LTE Band38 mode with Antenna 1

Date: 2024.03.17

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

Medium parameters used (interpolated): $f = 2610$ MHz; $\sigma = 1.977$ S/m; $\epsilon_r = 39.234$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.8°C Liquid Temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.64, 7.64, 7.64); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch38150/Area Scan (61x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

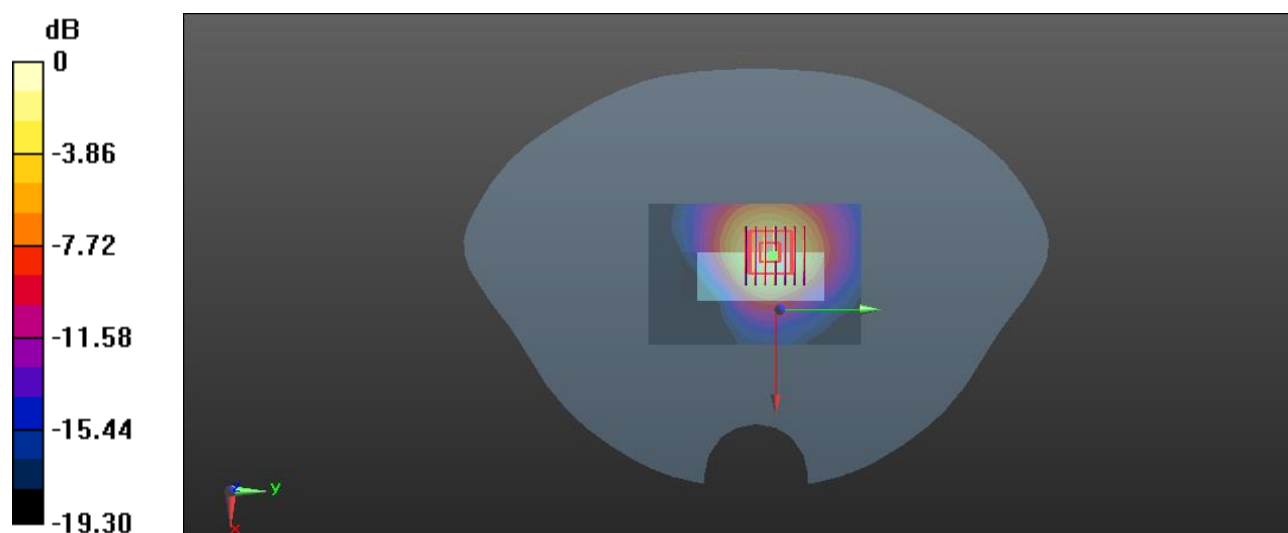
Ch381580/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.45 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 1.78 W/kg

SAR(1 g) = 0.988 W/kg; SAR(10 g) = 0.514 W/kg

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



0 dB = 1.08 W/kg

Meas.30 Body Plane with Bottom Edge 0mm on Middle Channel in LTE Band38 mode with Antenna 1

Date: 2024.03.17

Communication System Band: Band 38; Frequency: 2595 MHz; Duty Cycle: 1:1.58

Medium parameters used (interpolated): $f = 2595$ MHz; $\sigma = 1.969$ S/m; $\epsilon_r = 40.006$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.8°C Liquid Temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.64, 7.64, 7.64); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch38000/Area Scan (61x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 5.29 W/kg

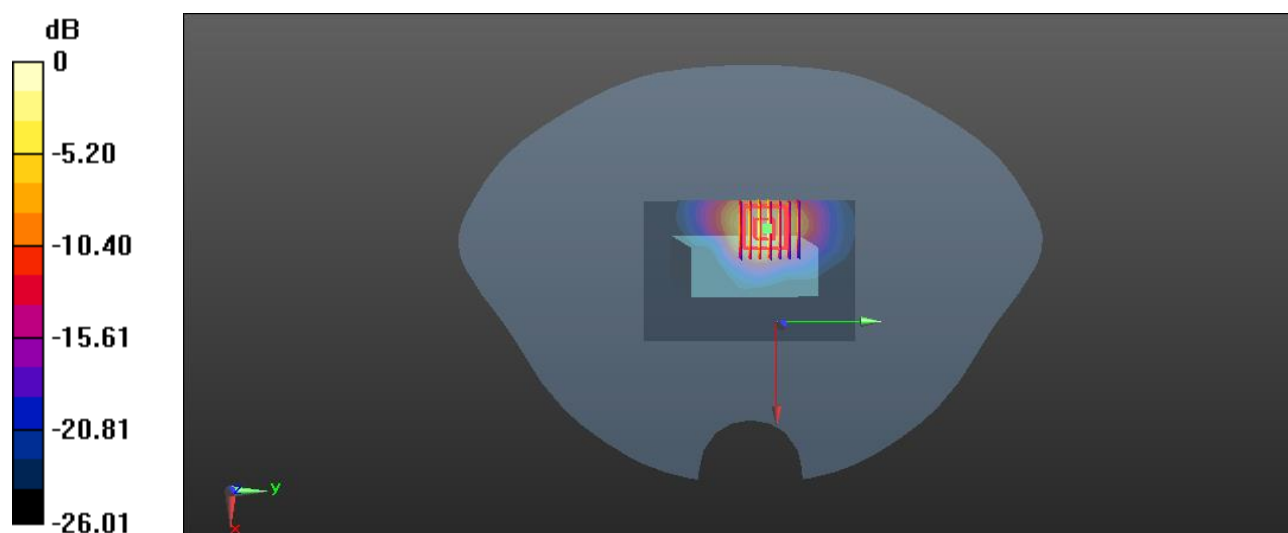
Ch38000/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.657 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 8.93 W/kg

SAR(1 g) = 4.47 W/kg; SAR(10 g) = 1.92 W/kg

Maximum value of SAR (measured) = 5.19 W/kg



0 dB = 5.19 W/kg

Meas.31 Left Head with Cheek on High Channel in LTE Band41 mode with Antenna 1

Date: 2024.03.18

Communication System Band: Band41; Frequency: 2645 MHz; Duty Cycle: 1:1.58

Medium parameters used (interpolated): $f = 2645$ MHz; $\sigma = 2.064$ S/m; $\epsilon_r = 38.228$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature: 22.5°C Liquid Temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.64, 7.64, 7.64); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.0243 W/kg

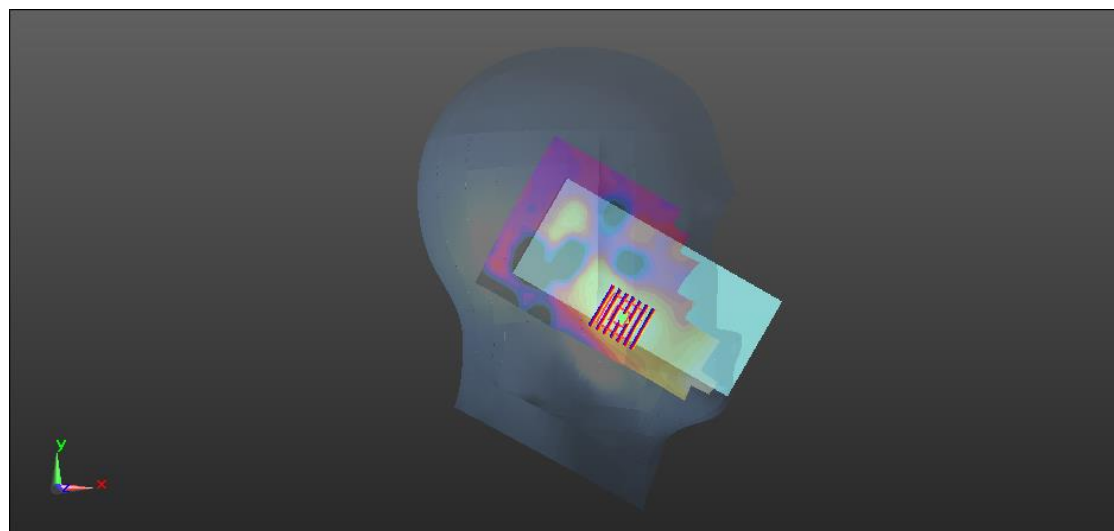
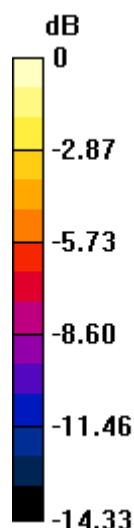
Ch41140/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.3230 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.0350 W/kg

SAR(1 g) = 0.019 W/kg; SAR(10 g) = 0.011 W/kg

Maximum value of SAR (measured) = 0.0219 W/kg



0 dB = 0.0219 W/kg

Meas.32 Body Plane with Bottom Edge 10mm on High Channel in LTE Band41 mode with Antenna 1

Date: 2024.03.18

Communication System Band: Band41; Frequency: 2645 MHz; Duty Cycle: 1:1.58

Medium parameters used (interpolated): $f = 2645$ MHz; $\sigma = 2.064$ S/m; $\epsilon_r = 38.228$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.5°C Liquid Temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.64, 7.64, 7.64); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch41140/Area Scan (61x91x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.733 W/kg

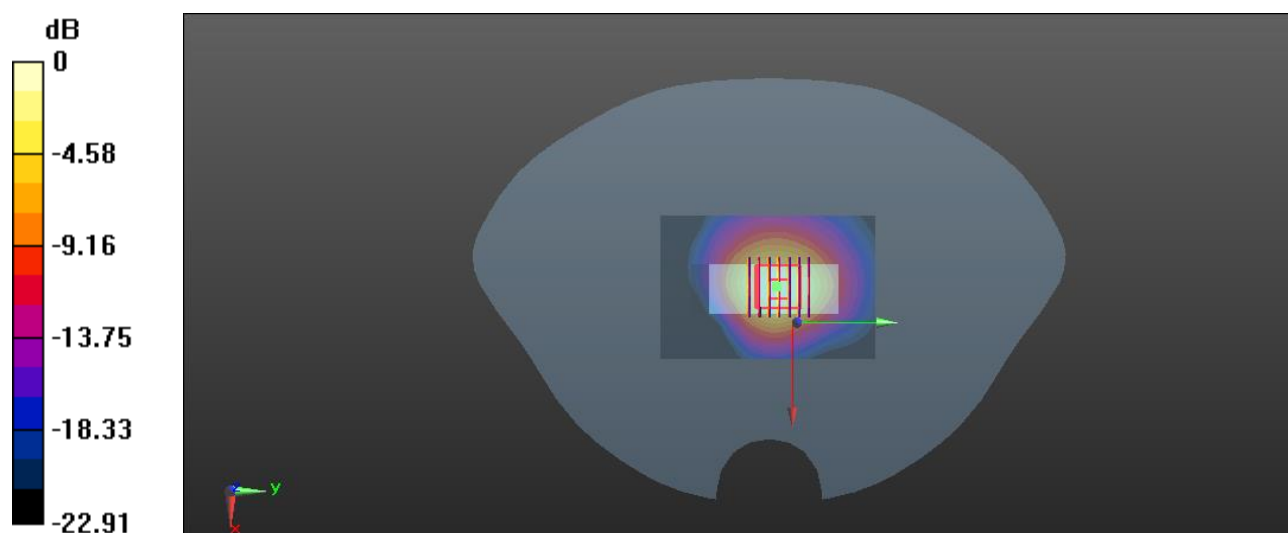
Ch41140/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 18.86 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.648 W/kg; SAR(10 g) = 0.314 W/kg

Maximum value of SAR (measured) = 0.734 W/kg



0 dB = 0.734 W/kg

Meas.33 Body Plane with Bottom Edge 0mm on High Channel in LTE Band41 mode with Antenna 1

Date: 2024.03.18

Communication System Band: Band41; Frequency: 2645 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2645$ MHz; $\sigma = 2.064$ S/m; $\epsilon_r = 38.228$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.5°C Liquid Temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.64, 7.64, 7.64); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch41140/Area Scan (61x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 3.33 W/kg

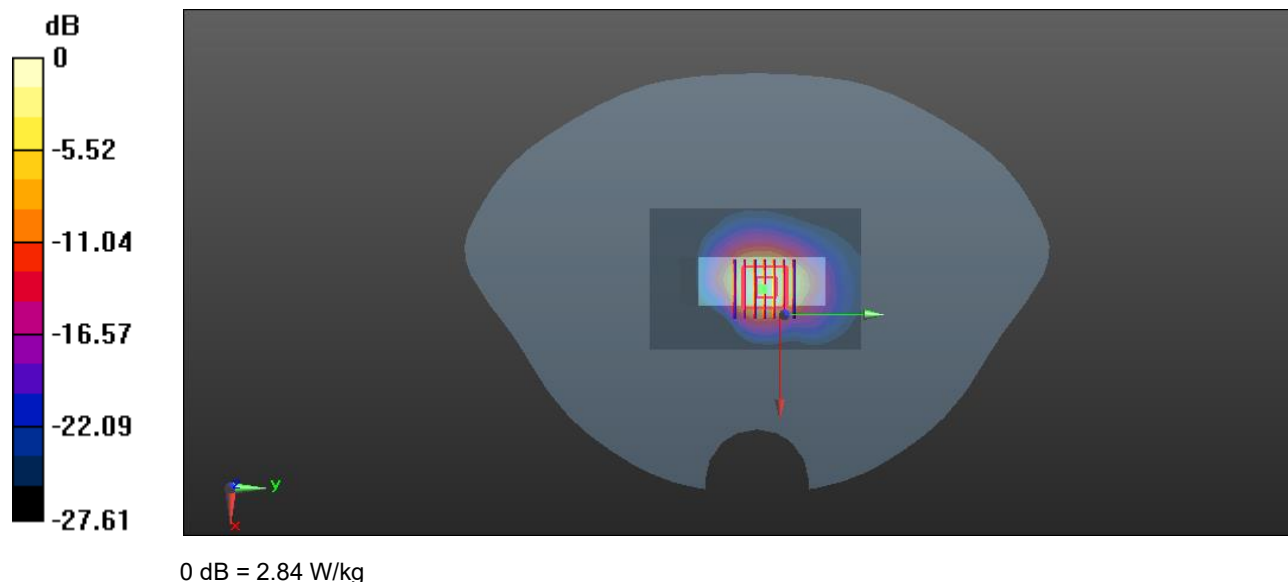
Ch41140/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 35.65 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 5.26 W/kg

SAR(1 g) = 2.45 W/kg; SAR(10 g) = 0.990 W/kg

Maximum value of SAR (measured) = 2.84 W/kg



Meas.34 Left Head with Cheek on 11 Channel in IEEE802.11b mode with Antenna 2

Date: 2024.03.15

Communication System Band: 2.4G; Frequency: 2462 MHz; Duty Cycle: 1:1.005

Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.81$ S/m; $\epsilon_r = 39.527$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature: 22.3°C Liquid Temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.98, 7.98, 7.98); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch11/Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.486 W/kg

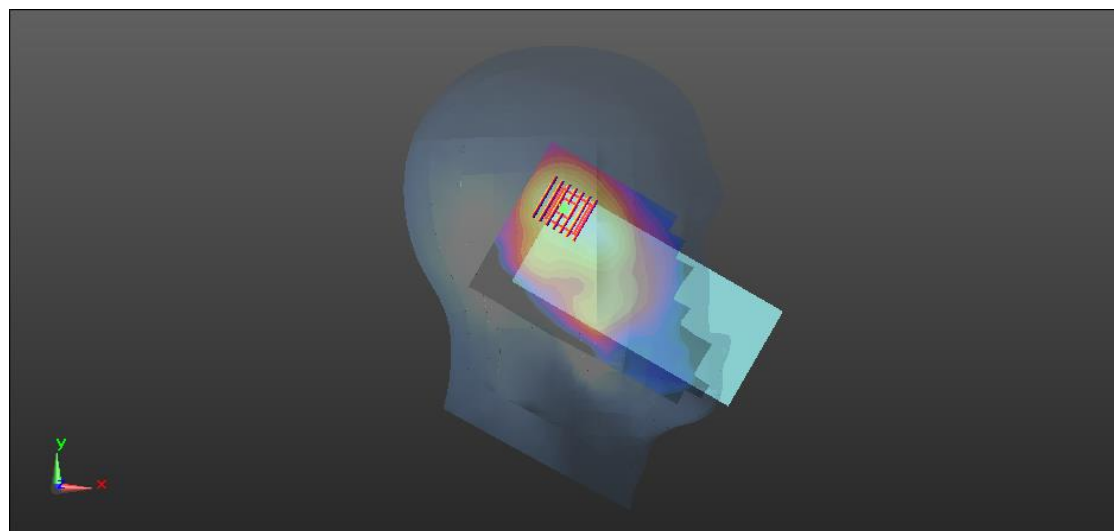
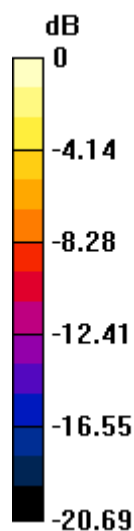
Ch11/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.488 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.747 W/kg

SAR(1 g) = 0.394 W/kg; SAR(10 g) = 0.207 W/kg

Maximum value of SAR (measured) = 0.440 W/kg



0 dB = 0.440 W/kg

Meas.35 Body Plane with Left Edge 10mm on 11 Channel in IEEE802.11b mode with Antenna 2

Date: 2024.03.15

Communication System Band: 2.4G; Frequency: 2462 MHz; Duty Cycle: 1:1.005

Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.81$ S/m; $\epsilon_r = 39.527$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3°C Liquid Temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.98, 7.98, 7.98); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch11/Area Scan (61x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.360 W/kg

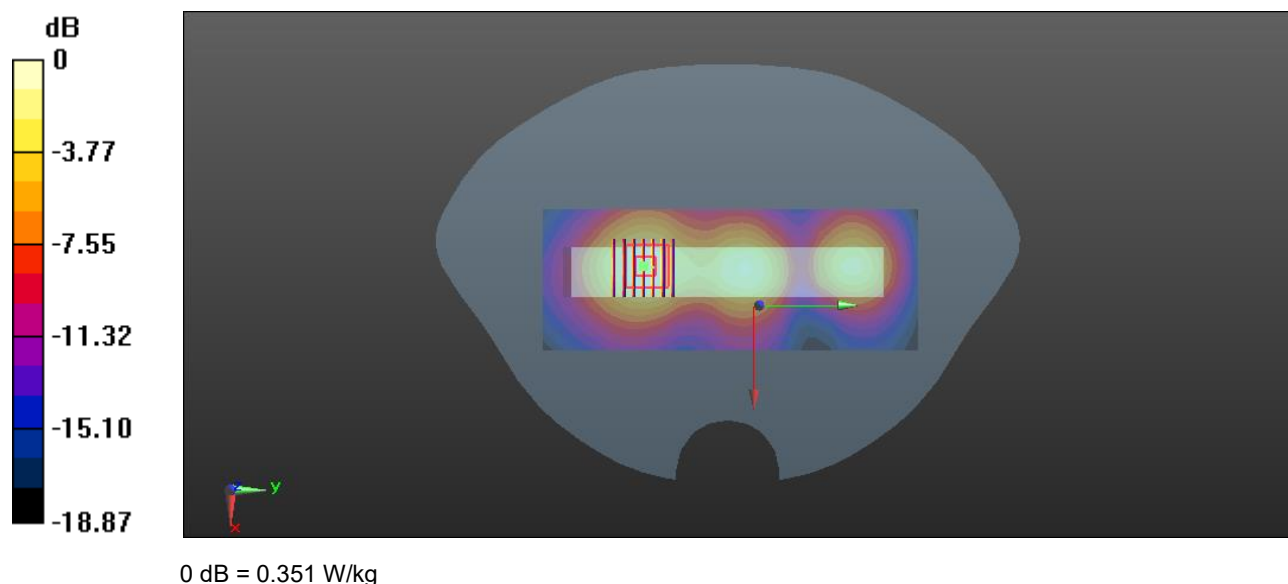
Ch11/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.09 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.590 W/kg

SAR(1 g) = 0.319 W/kg; SAR(10 g) = 0.169 W/kg

Maximum value of SAR (measured) = 0.351 W/kg



Meas.36 Body Plane with Left Edge 0mm on 11 Channel in IEEE802.11b mode with Antenna 2

Date: 2024.03.15

Communication System Band: 2.4G; Frequency: 2462 MHz; Duty Cycle: 1:1.005

Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.81$ S/m; $\epsilon_r = 39.527$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3°C Liquid Temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.98, 7.98, 7.98); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch11/Area Scan (61x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

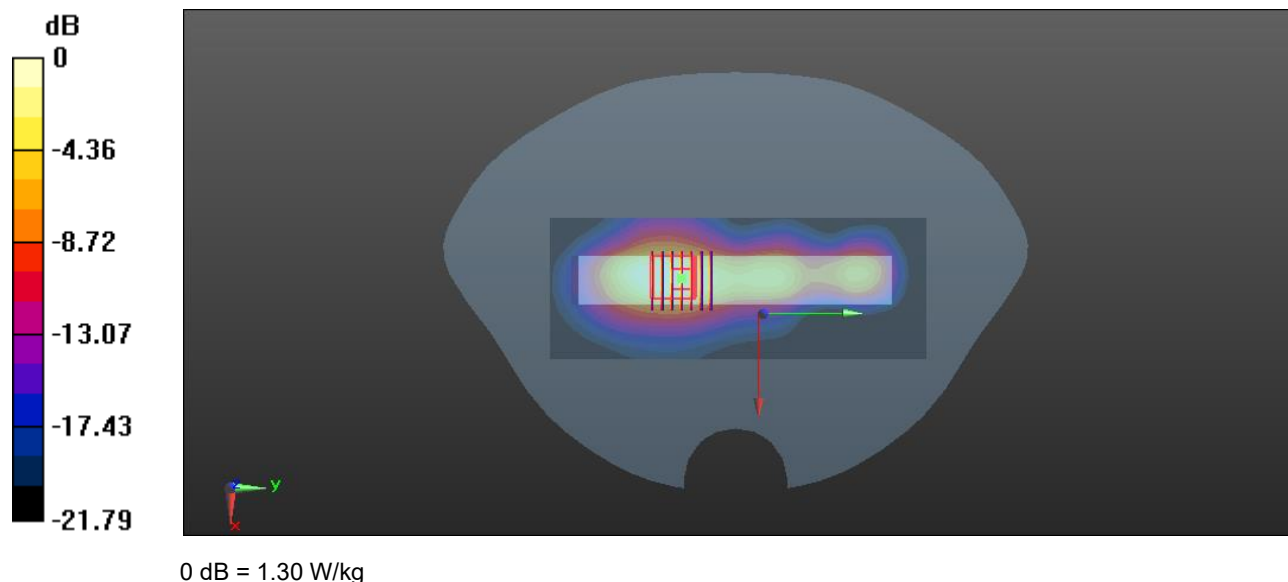
Ch11/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.96 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 2.34 W/kg

SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.564 W/kg

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



Meas.37 Left Head with Cheek on 58 Channel in IEEE802.11ac80 mode with Antenna 2

Date: 2024.03.19

Communication System Band: 5.3G; Frequency: 5290 MHz; Duty Cycle: 1:1.138

Medium parameters used (interpolated): $f = 5290$ MHz; $\sigma = 4.787$ S/m; $\epsilon_r = 35.294$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature: 22.2°C Liquid Temperature: 21.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(5.48, 5.48, 5.48); Calibrated: 2023.06.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch58/Area Scan (111x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

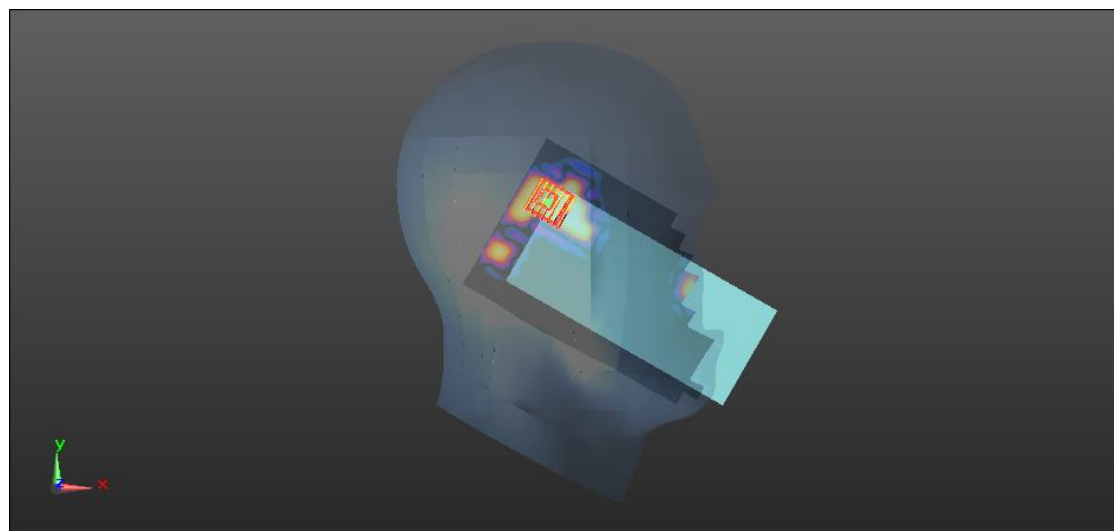
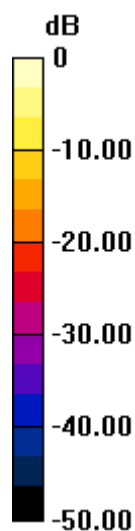
Ch58/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.484 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.389 W/kg

SAR(1 g) = 0.093 W/kg; SAR(10 g) = 0.027 W/kg

Maximum value of SAR (measured) = 0.112 W/kg



0 dB = 0.112 W/kg

Meas.38 Left Head with Cheek on 155 Channel in IEEE802.11ac80 mode with Antenna 2

Date: 2024.03.20

Communication System Band: 5.8G; Frequency: 5775 MHz; Duty Cycle: 1:1.138

Medium parameters used (interpolated): $f = 5775$ MHz; $\sigma = 5.218$ S/m; $\epsilon_r = 35.291$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature: 22.2°C Liquid Temperature: 21.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(4.95, 4.95, 4.95); Calibrated: 2023.06.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch155/Area Scan (111x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

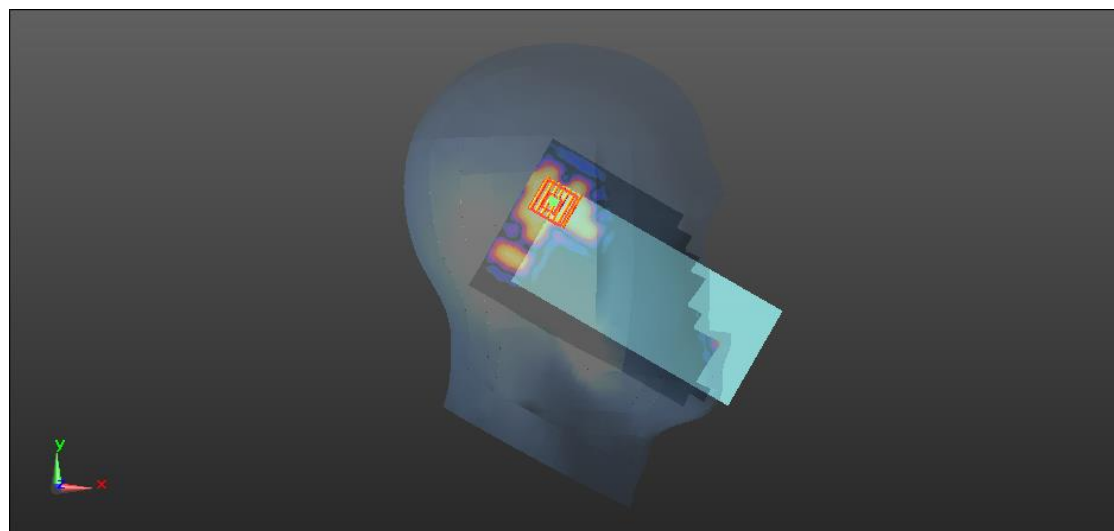
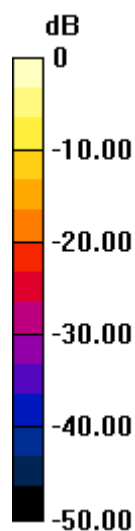
Ch155/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.553 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.962 W/kg

SAR(1 g) = 0.229 W/kg; SAR(10 g) = 0.058 W/kg

Maximum value of SAR (measured) = 0.307 W/kg



0 dB = 0.307 W/kg

Meas.39 Body Plane with Front Side 10mm on 58 Channel in IEEE802.11ac80 mode with Antenna 2

Date: 2024.03.19

Communication System Band: 5.3G; Frequency: 5290 MHz; Duty Cycle: 1:1.138

Medium parameters used (interpolated): $f = 5290$ MHz; $\sigma = 4.787$ S/m; $\epsilon_r = 35.294$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.2°C Liquid Temperature: 21.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(5.48, 5.48, 5.48); Calibrated: 2023.06.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch58/Area Scan (101x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.0558 W/kg

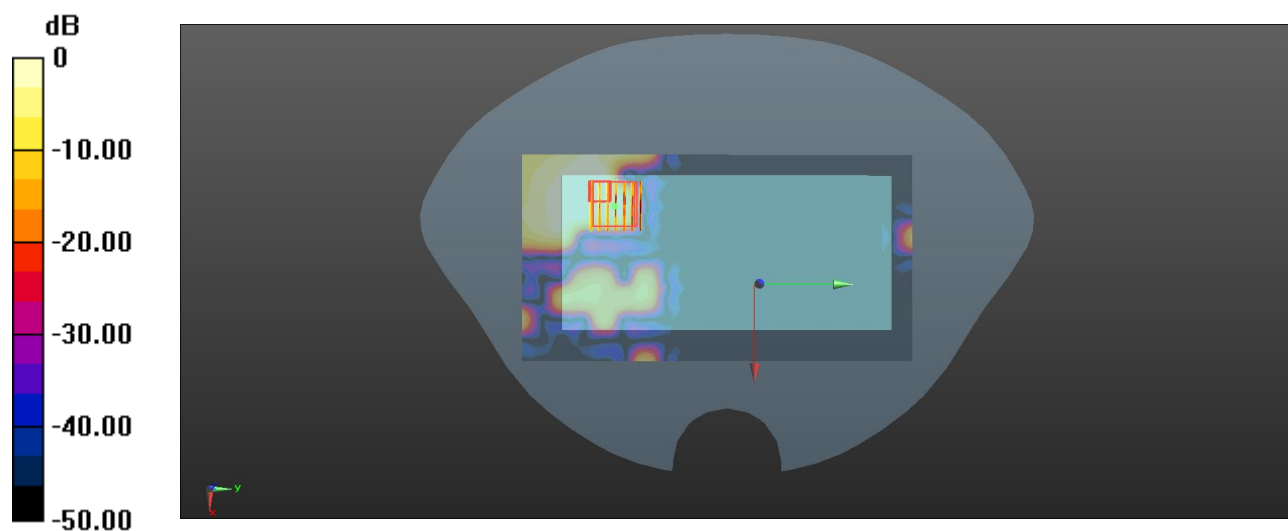
Ch58/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0.5160 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.0490 W/kg

SAR(1 g) = 0.017 W/kg; SAR(10 g) = 0.00618 W/kg

Maximum value of SAR (measured) = 0.0349 W/kg



0 dB = 0.0349 W/kg

Meas.40 Body Plane with Front Side 10mm on 42 Channel in IEEE802.11ac80 mode with Antenna 2

Date: 2024.03.19

Communication System Band: 5.2G; Frequency: 5210 MHz; Duty Cycle: 1:1.138

Medium parameters used (interpolated): $f = 5210$ MHz; $\sigma = 4.624$ S/m; $\epsilon_r = 36.326$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.2°C Liquid Temperature: 21.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(5.48, 5.48, 5.48); Calibrated: 2023.06.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch42/Area Scan (111x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.0987 W/kg

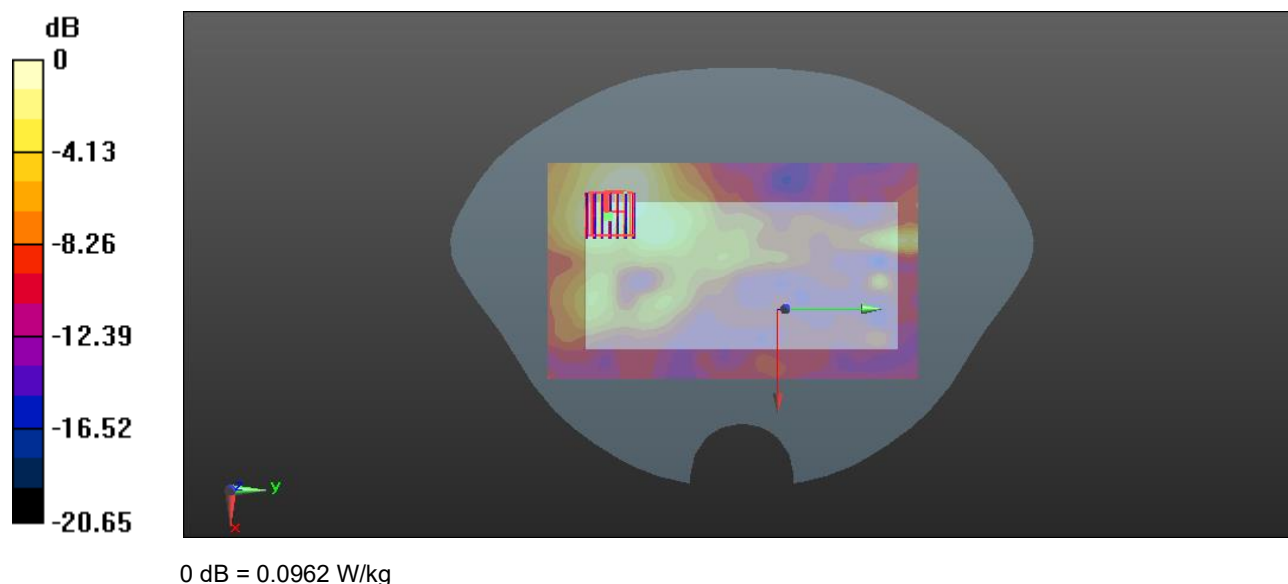
Ch42/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.812 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.203 W/kg

SAR(1 g) = 0.055 W/kg; SAR(10 g) = 0.023 W/kg

Maximum value of SAR (measured) = 0.0962 W/kg



Meas.41 Body Plane with Top Edge 10mm on 155 Channel in IEEE802.11ac80 mode with Antenna 2

Date: 2024.03.20

Communication System Band: 5.8G; Frequency: 5775 MHz; Duty Cycle: 1:1.138

Medium parameters used (interpolated): $f = 5775$ MHz; $\sigma = 5.218$ S/m; $\epsilon_r = 35.291$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.2°C Liquid Temperature: 21.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(4.95, 4.95, 4.95); Calibrated: 2023.06.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch155/Area Scan (81x121x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

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

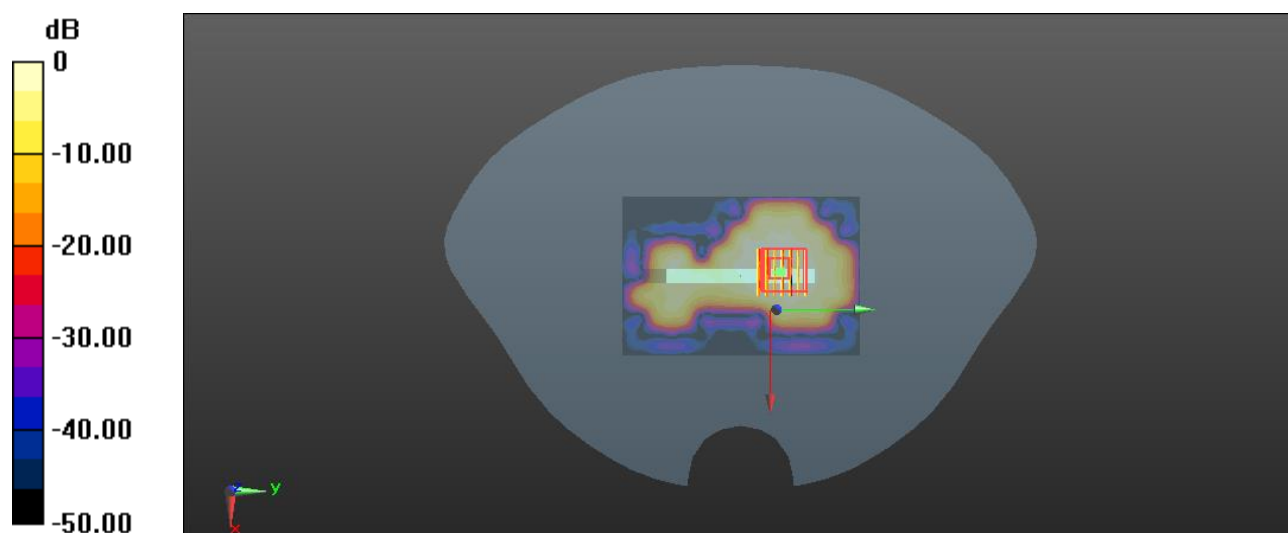
Ch155/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 3.016 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.376 W/kg

SAR(1 g) = 0.112 W/kg; SAR(10 g) = 0.046 W/kg

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



Meas.42 Body Plane with Top Edge 10mm on 58 Channel in IEEE802.11ac80 mode with Antenna 2

Date: 2024.03.19

Communication System Band: 5.3G; Frequency: 5290 MHz; Duty Cycle: 1:1.138

Medium parameters used (interpolated): $f = 5290$ MHz; $\sigma = 4.787$ S/m; $\epsilon_r = 35.294$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.2°C Liquid Temperature: 21.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(5.48, 5.48, 5.48); Calibrated: 2023.06.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch58/Area Scan (81x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.321 W/kg

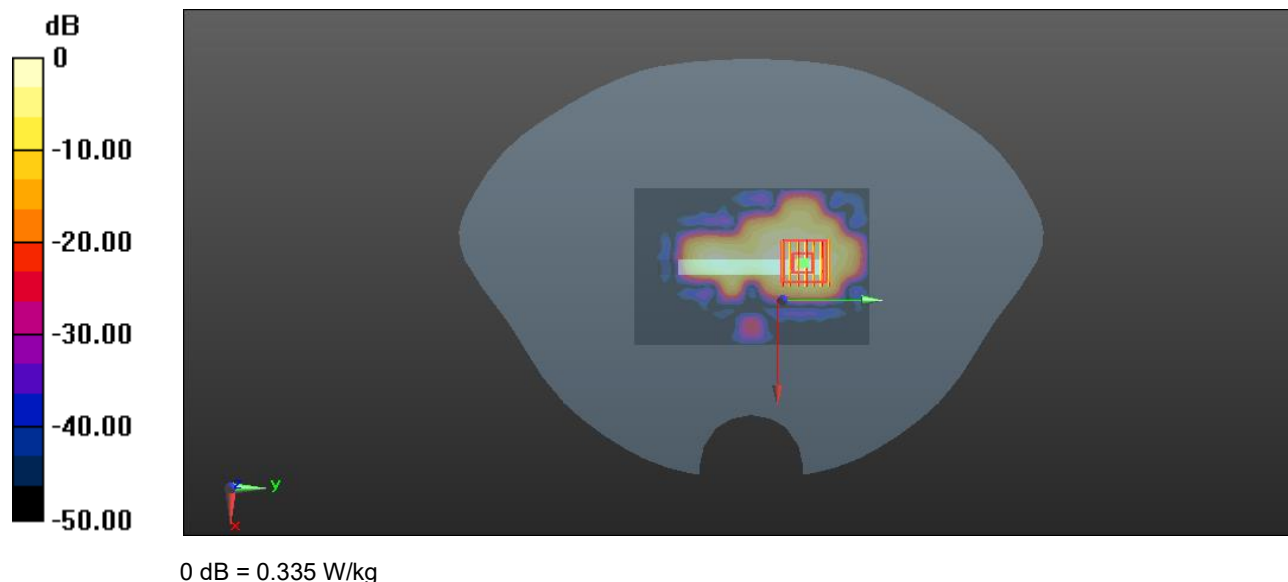
Ch58/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.571 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.614 W/kg

SAR(1 g) = 0.172 W/kg; SAR(10 g) = 0.057 W/kg

Maximum value of SAR (measured) = 0.335 W/kg



Meas.43 Left Head with Cheek on 39 Channel in Bluetooth mode with Antenna 2

Date: 2024.03.15

Communication System Band: BT; Frequency: 2441 MHz; Duty Cycle: 1:1.304

Medium parameters used (interpolated): $f = 2441$ MHz; $\sigma = 1.79$ S/m; $\epsilon_r = 39.696$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature: 22.3°C Liquid Temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.98, 7.98, 7.98); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch39/Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0431 W/kg

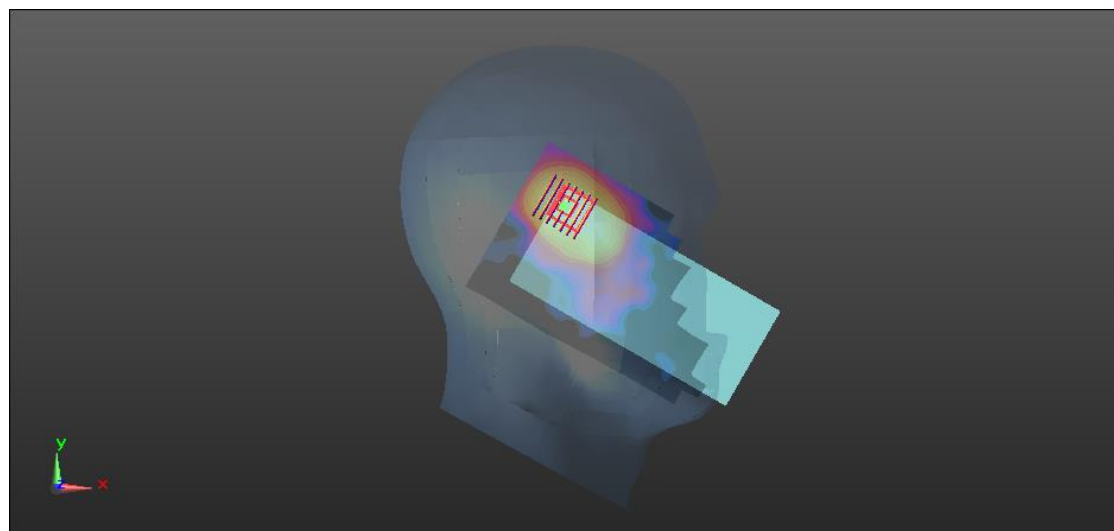
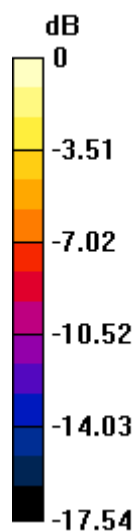
Ch39/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.337 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.0780 W/kg

SAR(1 g) = 0.041 W/kg; SAR(10 g) = 0.022 W/kg

Maximum value of SAR (measured) = 0.0461 W/kg



0 dB = 0.0461 W/kg

Meas.44 Body Plane with Left Edge 10mm on 39 Channel in Bluetooth mode with Antenna 2

Date: 2024.03.15

Communication System Band: BT; Frequency: 2441 MHz; Duty Cycle: 1:1.304

Medium parameters used (interpolated): $f = 2441$ MHz; $\sigma = 1.79$ S/m; $\epsilon_r = 39.696$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3°C Liquid Temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.98, 7.98, 7.98); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch39/Area Scan (61x161x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

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

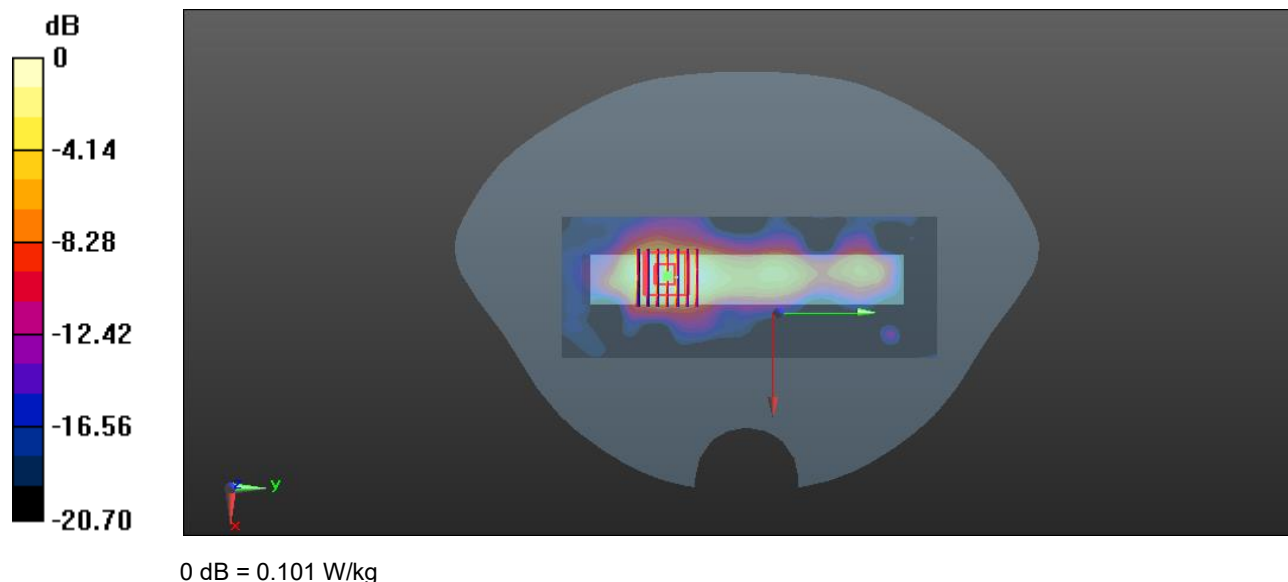
Ch39/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 4.725 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.248 W/kg

SAR(1 g) = 0.089 W/kg; SAR(10 g) = 0.042 W/kg

Maximum value of SAR (measured) = 0.101 W/kg



Meas.45 Body Plane with Left Edge 0mm on 39 Channel in Bluetooth mode with Antenna 2

Date: 2024.03.15

Communication System Band: BT; Frequency: 2441 MHz; Duty Cycle: 1:1.304

Medium parameters used (interpolated): $f = 2441$ MHz; $\sigma = 1.79$ S/m; $\epsilon_r = 39.696$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3°C Liquid Temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.98, 7.98, 7.98); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM(20deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch39/Area Scan (61x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0961 W/kg

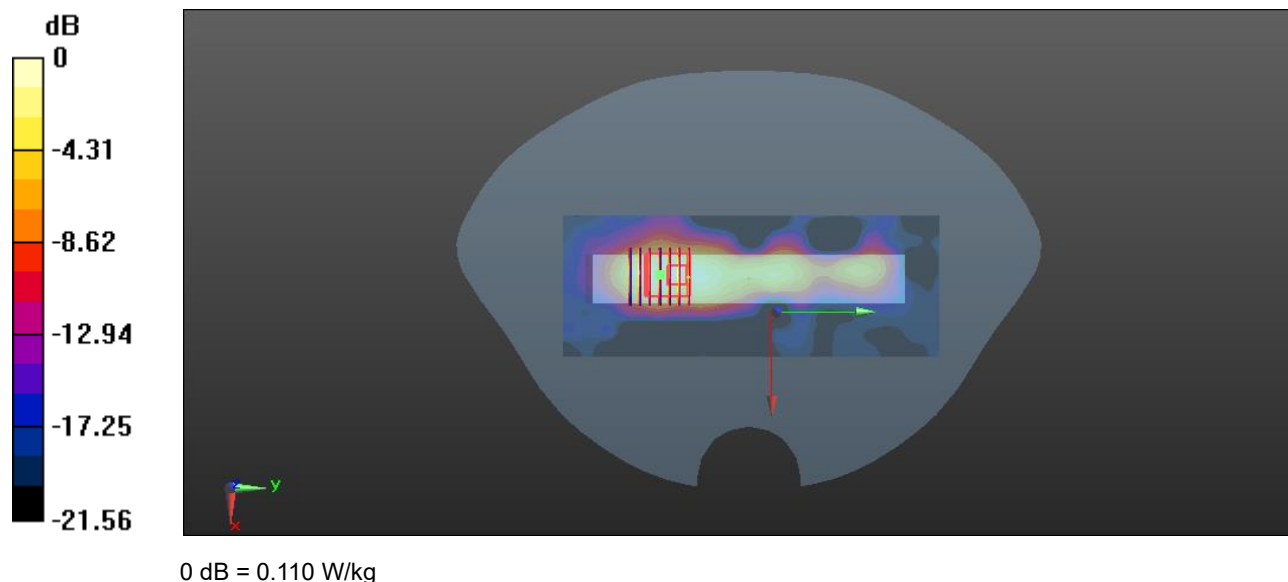
Ch39/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.588 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.366 W/kg

SAR(1 g) = 0.101 W/kg; SAR(10 g) = 0.045 W/kg

Maximum value of SAR (measured) = 0.110 W/kg



ANNEX D EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2430302-AW.pdf”.

ANNEX E SAR TEST SETUP PHOTOS

Please refer the document “BL-SZ2430302-AS.pdf”.

ANNEX F CALIBRATION REPORT

Please refer the document “BL-SZ2430302-AC.pdf”.

ANNEX G TUNE-UP PROCEDURE

Please refer the document “BL-SZ2430302-AP.pdf”.

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