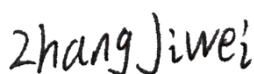


TEST REPORT

Applicant: Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address: NO.18 HaiBin Road, Wusha Village, Chang'an Town, DongGuan City, Guangdong Province, P.R. China
Equipment Type: Mobile Phone
Model Name: CPH2725
Brand Name: OPPO
FCC ID: R9C-OP24303
Test Standard: FCC 47 CFR Part 2.1093
(refer to section 3.1)
Head (1 g@0mm): 1.16 W/kg
Maximum SAR: Body-worn (1 g@15mm): 0.76 W/kg
Hotspot (1 g@10mm): 0.97 W/kg
Specific (10 g@0mm): 2.20 W/kg
Sample Arrival Date: Jan. 24, 2025
Test Date: Jan. 28, 2025 - Feb. 14, 2025
Date of Issue: Feb. 24, 2025

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Zhang Jiwei**Checked by:** Xu Rui**Approved by:** Tolan Tu
(Testing Director)

Revision History

Version	Issue Date	Revisions Content
Rev. 01	Feb. 24, 2025	Initial Issue

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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	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address	NO.18 HaiBin Road, Wusha Village, Chang'an Town, DongGuan City, Guangdong Province, P.R. China

2.2 Manufacturer Information

Manufacturer	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address	NO.18 HaiBin Road, Wusha Village, Chang'an Town, DongGuan City, Guangdong Province, P.R. China

2.3 General Description for Equipment under Test (EUT)

EUT Name	Mobile Phone
Model Name Under Test	CPH2725
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	11
Software Version	ColorOS 15.0.1
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A
EUT ID	S11, S12, S09, S10
IMEI Number	S11: IMEI1: 865652070170131; IMEI2:865652070170123
	S12: IMEI1: 865652070170057; IMEI2:865652070170040
	S09: IMEI1: 865652070167418; IMEI2:865652070167400
	S10: IMEI1: 865652070168234; IMEI2:865652070168226
Note1: EUT ID is used to identify the test sample in the lab internally.	
Note2: It is performed to test SAR with the EUT S09, S10 and conducted power with the EUT S11 & S12.	

2.4 Ancillary Equipment

Ancillary Equipment 1	Li-Polymer Battery 1	
	Brand Name	SUPERVOOC
	Model No.	BLPC21
	Serial No.	N/A
	Capacitance	Rated Capacity: 5860mAh/22.98Wh, Typical Capacity: 6000mAh/23.52Wh
	Rated Voltage	3.92Vdc
	Limited Voltage	4.53Vdc
	Manufacturer	Dongguan NVT Technology Co., Ltd
Ancillary Equipment 2	Li-Polymer Battery(alternative) 2	
	Brand Name	SUPERVOOC
	Model No.	BLPC21
	Serial No.	N/A
	Capacitance	Rated Capacity: 5860mAh/22.98Wh, Typical Capacity: 6000mAh/23.52Wh
	Rated Voltage	3.92Vdc
	Limited Voltage	4.53Vdc
	Supplier	SUNWODA Electronic Co., Ltd.

2.5 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EDGE 850/900/1800/1900 3G Network WCDMA/HSDPA/HSUPA Band 1/2/4/5/6/8/19 4G Network FDD LTE Band 1/2/3/4/5/7/8/12/13/17/18/19/26/28/66 TDD LTE Band 38/40/41 Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n(HT20/40), 802.11ac(VHT20/40/80) GNSS, FM Receiver
Note: The EUT is a mobile phone, which supports dual SIM card under the same transceiver. Each SIM supports GSM, WCDMA and LTE, and both SIM share the same transmitting electro circuit, NV parameters, so only SIM1 was tested in this report.	

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

Operating Mode	GSM, WCDMA, LTE, 2.4G WIFI, 5G WIFI, Bluetooth		
Frequency Range	GSM 850	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	GSM 900	TX: 880 ~ 915 MHz	RX: 925 ~ 960 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
	WCDMA Band 8	TX: 880 ~ 915 MHz	RX: 925 ~ 960 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 8	TX: 880 ~ 915 MHz	RX: 925 ~ 960 MHz
	LTE Band 12	TX: 699 ~ 716 MHz	RX: 729 ~ 746 MHz
	LTE Band 13	TX: 777 ~ 787 MHz	RX: 746 ~ 756 MHz
	LTE Band 17	TX: 704 ~ 716 MHz	RX: 734 ~ 746 MHz
	LTE Band 18	TX: 815 ~ 824 MHz	RX: 860 ~ 869 MHz
		TX: 824 ~ 830 MHz	RX: 869 ~ 875 MHz
	LTE Band 19	TX: 830 ~ 845 MHz	RX: 875 ~ 890 MHz
	LTE Band 26	TX: 814 ~ 824 MHz	RX: 859 ~ 869 MHz
		TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 28	TX: 703 ~ 748 MHz	RX: 758 ~ 803 MHz
	LTE Band 66	TX: 1710 ~ 1780 MHz	RX: 2110 ~ 2180 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	
	VHT20/VHT40	2412 ~ 2462 MHz	
	802.11a/	5150 ~ 5250 MHz	

	/n(HT20/HT40)	5250 ~ 5350 MHz
	/ac(VHT20/VHT40/	5470 ~ 5725 MHz
	VHT80)	5725 ~ 5850 MHz
	Bluetooth	2402 ~ 2480 MHz
Antenna Type	WWAN: IFA Antenna WIFI: IFA Antenna Bluetooth: IFA 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
Note: 1. The device utilizes independent power reduction mechanisms for SAR compliance for the 2/3/4G transmitter for held-to-ear exposure conditions. 2. The device utilizes independent power reduction mechanisms for SAR compliance for the 2/3/4G transmitter for near to body exposure conditions. 3. The reduction power details please refer section 8.6.		

3 SUMMARY OF TEST RESULT

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 2.1093	Radiofrequency radiation exposure evaluation: portable devices
2	ANSI C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz
3	IEEE Std. 1528-2013	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 (15mm)	Hotspot (10mm)	Specific (0mm)	Head (0mm)	Body-worn (15mm)	Hotspot (10mm)	Specific (0mm)
		1g SAR			10g SAR	1g SAR			10g SAR
PCE	GSM 850	0.87	0.21	0.46	/	1.16	0.76	0.97	2.20
	GSM 900	0.99	0.23	0.30	/				
	GSM 1900	1.16	0.53	0.47	/				
	WCDMA Band 2	0.76	0.45	0.36	1.66				
	WCDMA Band 4	0.66	0.28	0.33	1.73				
	WCDMA Band 5	0.82	0.26	0.34	/				
	WCDMA Band 8	0.70	0.24	0.56	/				
	LTE Band 2	0.52	0.27	0.30	1.03				
	LTE Band 4	0.46	0.28	0.35	1.84				
	LTE Band 5	0.80	0.26	0.31	/				
	LTE Band 7	0.56	0.16	0.27	/				
	LTE Band 8	0.76	0.30	0.33	/				
	LTE Band 12	0.37	0.23	0.27	/				
	LTE Band 13	0.48	0.16	0.16	/				
	LTE Band 17	0.58	0.18	0.21	/				
	LTE Band 18	0.84	0.25	0.41	/				
	LTE Band 19	0.87	0.26	0.43	/				
	LTE Band 26	0.71	0.23	0.33	/				
	LTE Band 28	0.80	0.15	0.23	/				
	LTE Band 66	1.04	0.27	0.97	2.20				
	LTE Band 38	0.10	0.25	0.26	/				
	LTE Band 41	0.20	0.09	0.10	/				
DTS	2.4G WIFI	1.13	0.36	0.78	1.82				
NII	5.2G WIFI	/	/	0.22	/				
	5.3G WIFI	1.04	0.52	/	1.56				
	5.6G WIFI	0.91	0.68	/	1.65				
	5.8G WIFI	0.76	0.76	0.27	/				
DSS	Bluetooth	0.24	0.05	0.10	0.21				
Limit (W/kg)		1.6			4.0	1.6			4.0
Verdict		PASS							

3.3.2 Highest Simultaneous Transmission SAR Values

Equipment Class	Maximum Scaled SAR (W/kg)			
	Head 1g (0mm)	Body-worn 1g (15mm)	Hotspot 1g (10mm)	Specific 10g (0mm)
PCE	1.26	0.54	1.34	2.20
DTS	1.26	0.54	1.34	2.20
NII	1.21	0.54	0.97	2.20
DSS	1.14	0.32	0.97	2.20
Limit (W/Kg)	1.60	1.60	1.60	4.00
Verdict	Pass			
Note: The highest simultaneous SAR please refer section 12.2				

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 1.16 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 2.20 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:

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

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

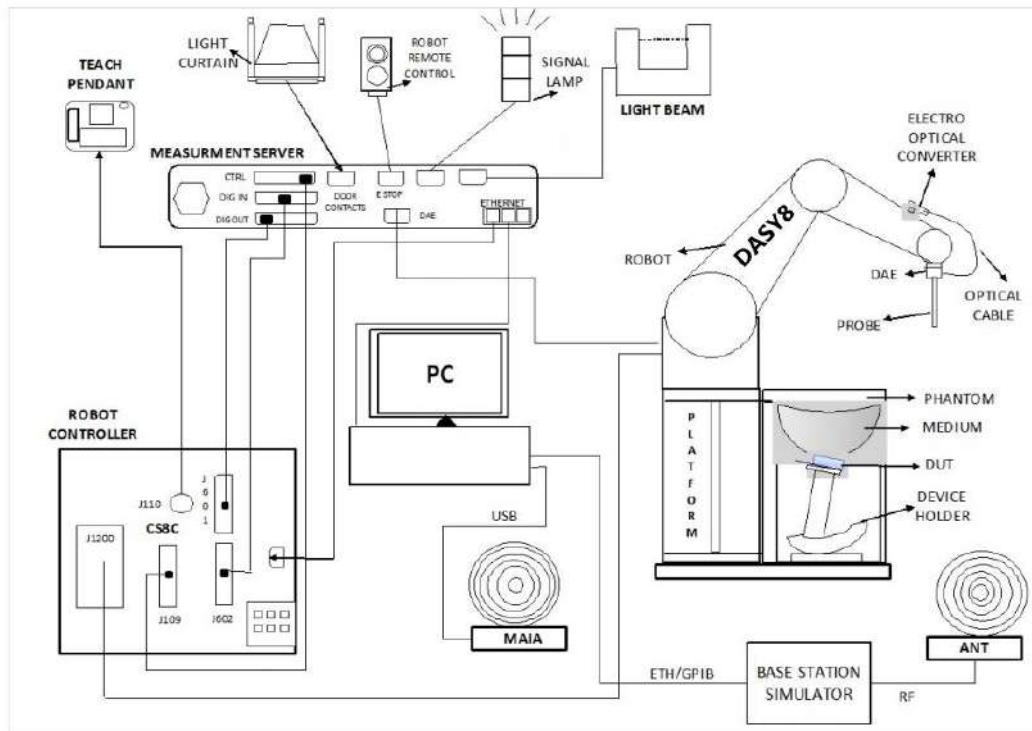
$$SAR = \frac{\sigma E^2}{\rho}$$

Where: σ is the conductivity of the tissue,

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

4.2 DASY SAR System

4.2.1 DASY SAR System Diagram



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

1. A standard high precision 6-axis robot (Stäubli RX family) with controller and software. An arm extension for accommodating the data acquisition electronics (DAE).
2. A dosimetric probe, i.e. an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
3. A data acquisition electronic (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
4. A unit to operate the optical surface detector which is connected to the EOC.
5. The Electro-Optical Coupler (EOC) performs the conversion from the optical into a digital electric signal of the DAE. The EOC is connected to the DASY5 measurement server.
6. The DASY measurement server, which performs all real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operation.
7. 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 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., glycoether)
Calibration	ISO/IEC 17025 calibration service available
Frequency	4 MHz to 10 GHz; Linearity: ± 0.2 dB
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 IEC/IEEE 62209-1528 and IEEE 1528 std, with CALISAR, Antennessa proprietary calibration system. The calibration is performed with the IEC/IEEE 62209-1528 annexe technique using reference guide at the five frequencies.

4.2.4 Data Acquisition Electronics

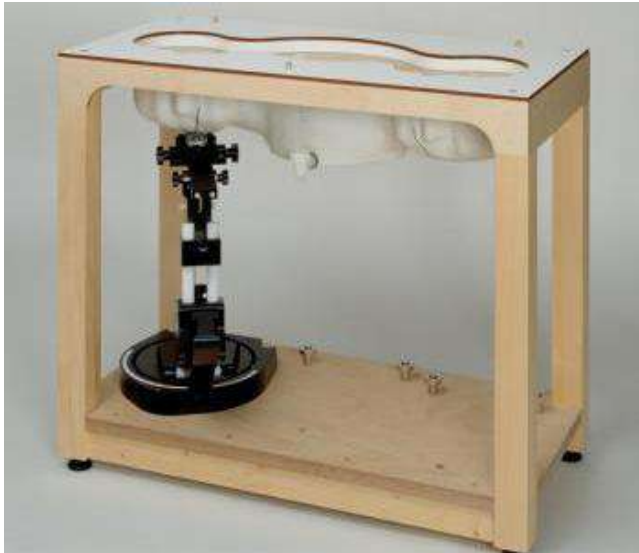
The data acquisition electronics (DAE) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converte and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an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



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

4.2.5 Phantoms

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



- Left head
- Right head
- Flat phantom

Photo of Phantom SN1859



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

4.2.6 Device Holder

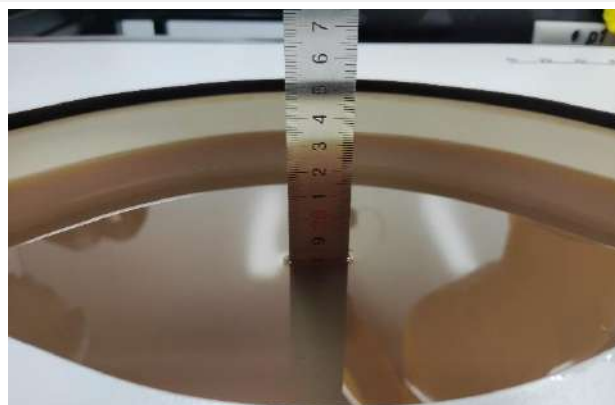
The DASY device holder has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of 65° . The bottom plate contains three pair of bolts for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



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

4.2.7 Simulating Liquid

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

Head Liquid Depth**Body Liquid Depth**

The following table gives the recipes for tissue simulating liquid.

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

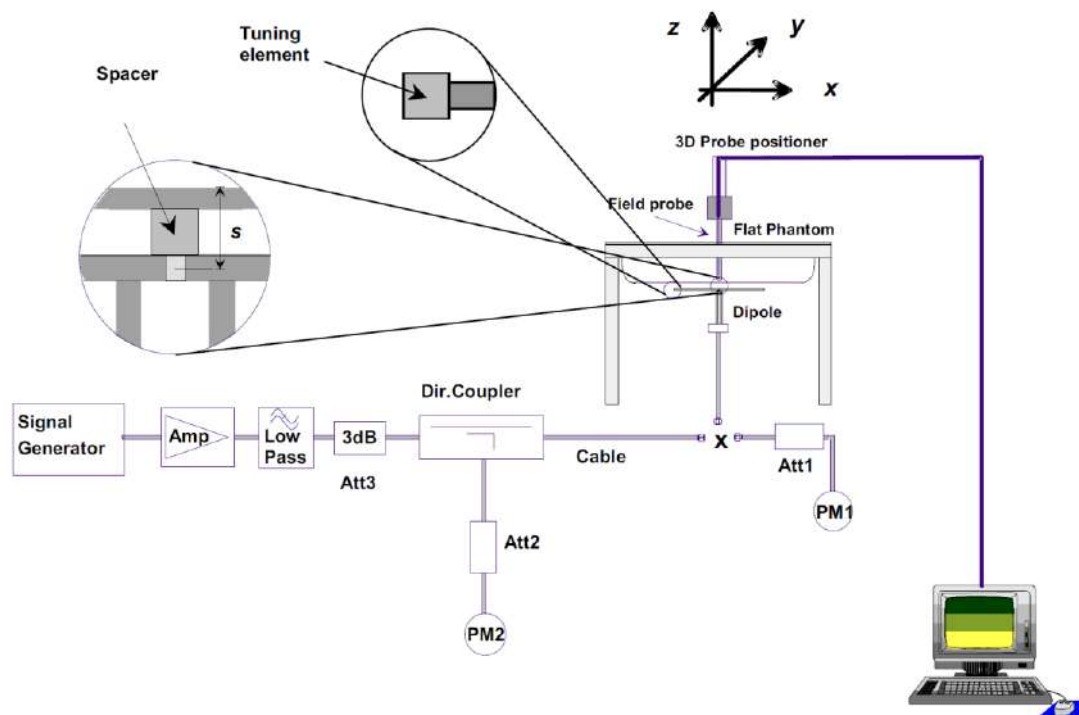
5 SYSTEM VERIFICATION

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

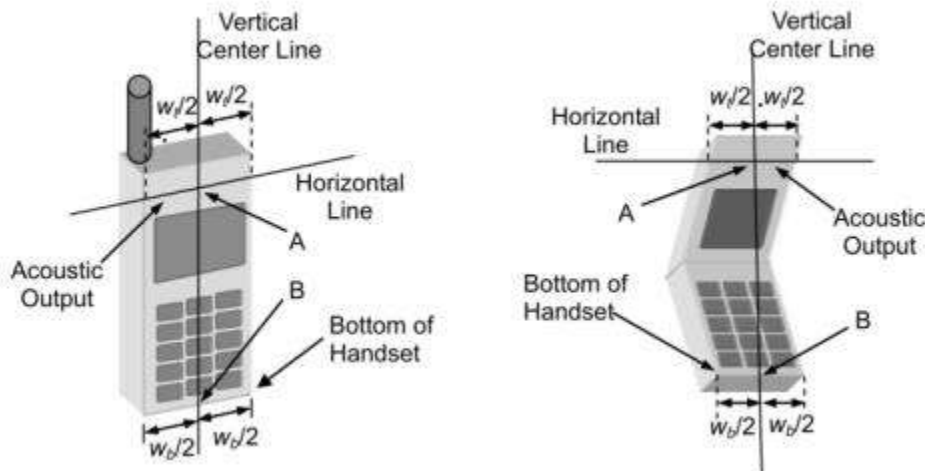
According to KDB 648474 D04 Handset, handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

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.

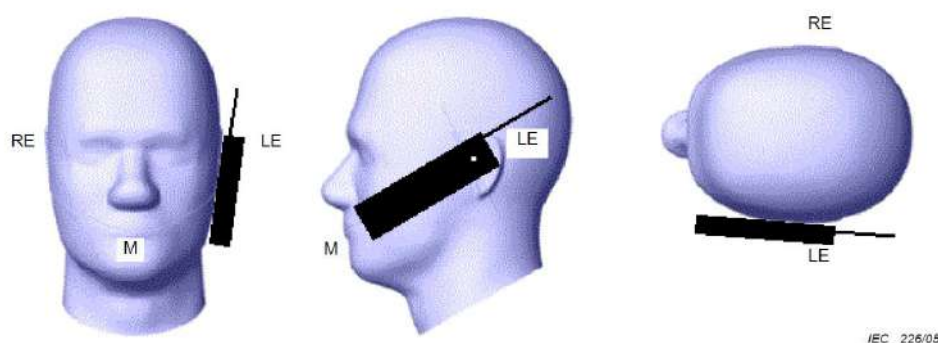
6.1.1 Two Imaginary Lines on the Handset

- 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

- (a) To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the three ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE.
- (b) To move the device towards the phantom with the ear piece aligned with the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost.



6.1.3 Tilted Position

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

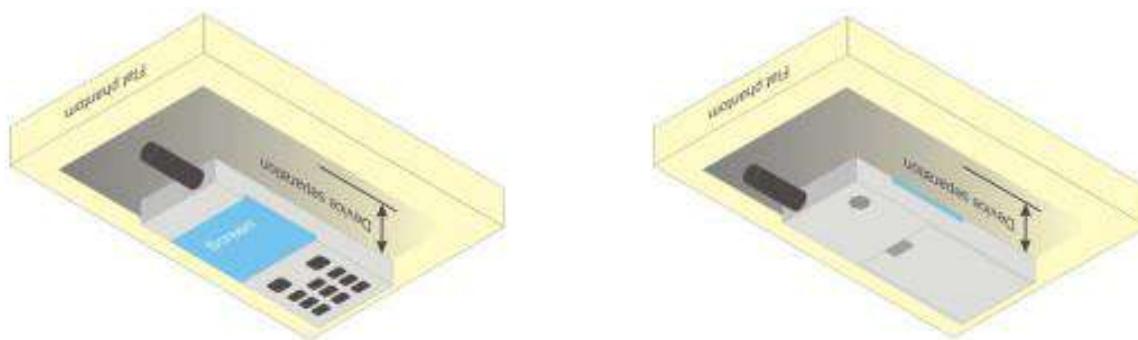


6.2 Body-worn Position Conditions

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

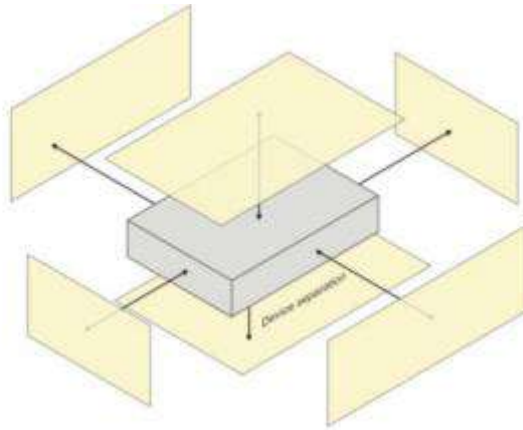
Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics.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

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



6.3 Hotspot Mode Exposure Position Conditions

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



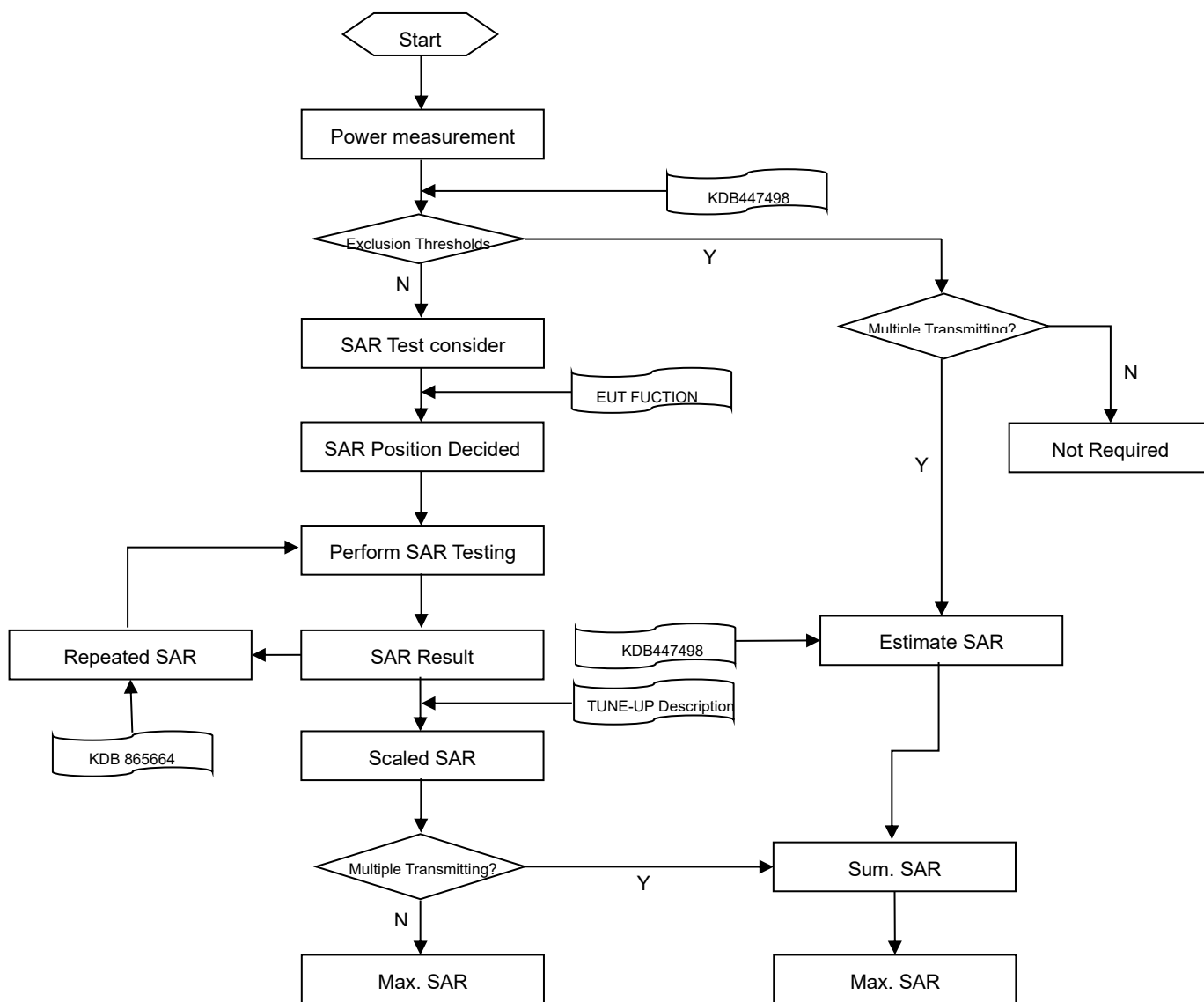
6.4 Product Specific 10g Exposure Consideration

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

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

7 MEASUREMENT PROCEDURE

7.1 Measurement Process Diagram



7.2 SAR Scan General Requirement

Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. 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:

- δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.
- * 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.

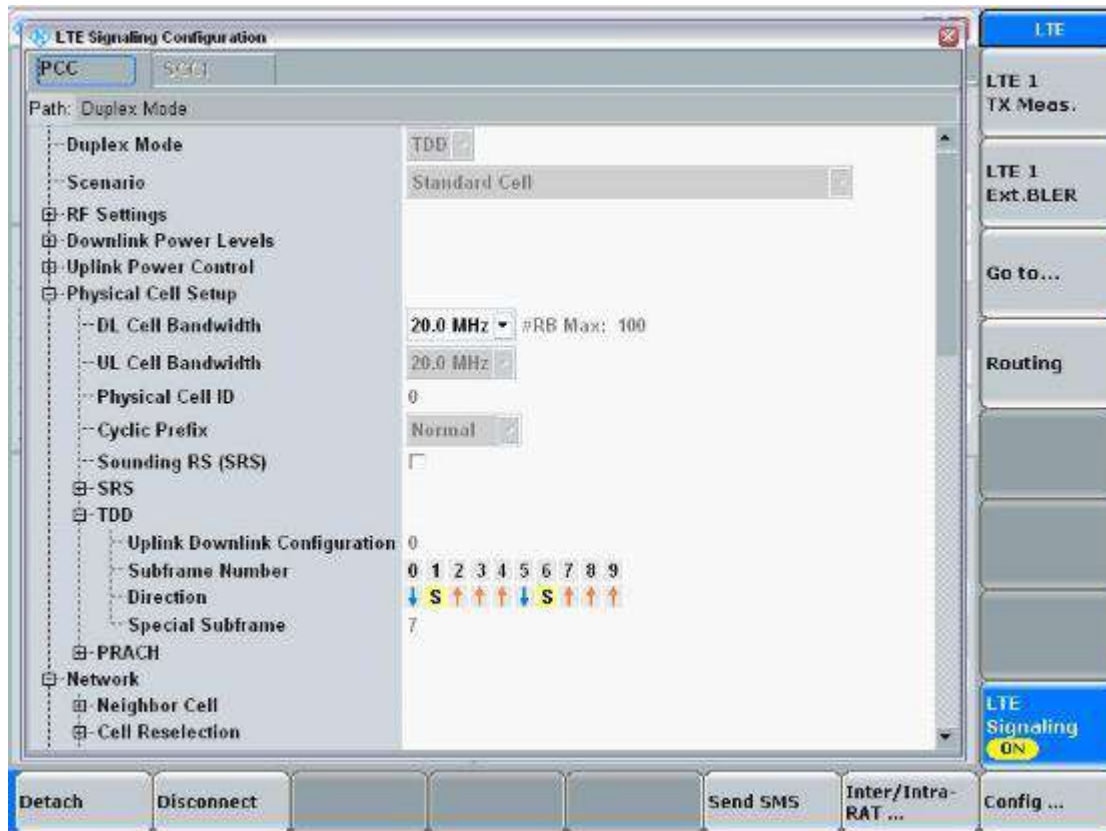
7.4 Area & Zoom Scan Procedure

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.

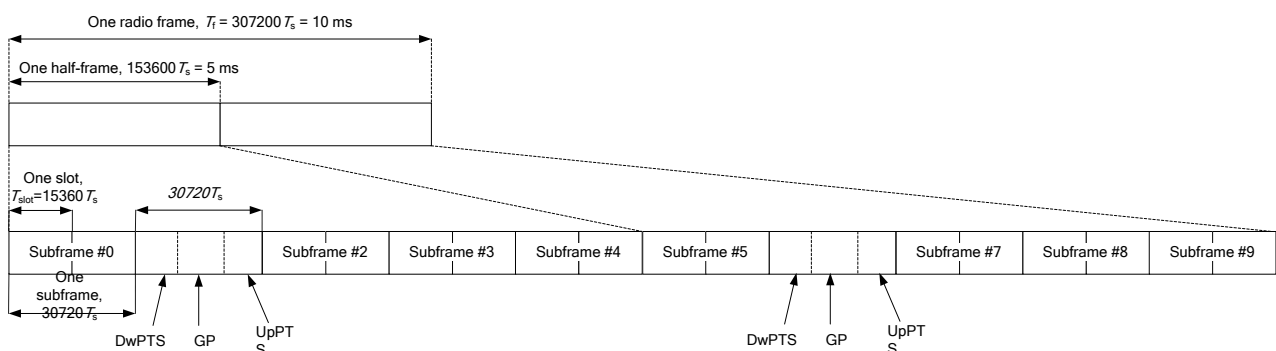
When the 1 g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.

7.5 LTE (TDD) Considerations

During TDD-LTE SAR testing, the EUT was commanded to transmit on maximum output power and maximum transmitting bandwidth. The uplink and downlink slot configuration as below in one radio frame.



According to 3GPP Per 3GPP TS 36.211. Each radio frame of length ($T_f = 307200 \cdot T_s = 10\text{ms}$) of two half-frames of length ($153600 \cdot T_s = 5\text{ms}$). Each half-frame consists of five sub-frames of length ($30720 \cdot T_s = 1\text{ms}$)



And the special sub-frame with the three fields DwPTS, GP and UpPTS.

The length of DwPTS and UpPTS is given by below table subject to the total length of DwPTS, GP and UpPTS being equal to $30720 \cdot T_s = 1\text{ms}$.

Configuration of special sub-frame (lengths of DwPTS/GP/UpPTS)

Special sub-frame configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21592 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$7680 \cdot T_s$	$2560 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$			$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21592 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-	-	-
9	$13168 \cdot T_s$			-	-	-

For special sub-frame uplink time we used the largest cyclic prefix for duty cycle calculate;

Maximum uplink time of one special sub-frame=(largest cyclic prefix)/(one sub-frame of length)* time of one sub-frame= $5120 \cdot T_s / 30720 \cdot T_s \cdot 1\text{ms} = 0.167\text{ms}$

One radio frame with 6 uplink sub-frames and two special sub-frame,

there for the maximum Uplink time in one radio frame is: **$6 \cdot 1\text{ ms} + 2 \cdot 0.167\text{ ms} = 6.334\text{ms}$**

So, the duty cycle for TDD-LTE is: **$6.334\text{ms} / 10\text{ms} = 1: 1.58$**

8 CONDUCTED RF OUPUT POWER

8.1 GSM

Please refer the document "BL-SZ2510972-AP.pdf".

8.2 WCDMA

Please refer the document "BL-SZ2510972-AP.pdf".

8.3 LTE

Please refer the document "BL-SZ2510972-AP.pdf".

8.4 WIFI

8.4.1 2.4G WIFI-Full power

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4	802.11b	1	2412	17.09	19.00	No
		2	2417	18.18	20.00	No
		6	2437	18.56	20.00	No
		10	2457	18.51	20.00	No
		11	2462	17.42	19.00	No
	802.11g	1	2412	14.04	16.00	No
		2	2417	15.10	17.00	No
		3	2422	17.15	19.00	No
		6	2437	17.52	19.00	No
		9	2452	17.49	19.00	No
		10	2457	15.39	17.00	No
		11	2462	14.09	16.00	No
	802.11n(HT20)	1	2412	13.15	15.00	No
		2	2417	15.03	17.00	No
		3	2422	17.07	19.00	No
		6	2437	17.36	19.00	No
		9	2452	17.30	19.00	No
		10	2457	15.21	17.00	No
		11	2462	14.08	16.00	No
	802.11n(HT40)	3	2422	11.01	13.00	No
		4	2427	9.09	11.00	No
		5	2432	16.15	18.00	No
		6	2437	16.21	18.00	No
		7	2442	16.19	18.00	No
		8	2447	13.38	15.00	No
		9	2452	11.79	13.50	No
	VHT20	1	2412	13.63	15.50	No
		2	2417	15.03	17.00	No
		3	2422	17.10	19.00	No
		6	2437	17.36	19.00	No
		9	2452	17.32	19.00	No
		10	2457	15.20	17.00	No
		11	2462	14.04	16.00	No
	VHT40	3	2422	11.06	13.00	No
		4	2427	9.10	11.00	No

		5	2432	15.00	17.00	No
		6	2437	16.19	18.00	No
		7	2442	16.22	18.00	No
		8	2447	15.71	17.50	No
		9	2452	14.09	16.00	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/VHT) 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 = $1.125 * (79.43\text{mW}/100.00\text{mW}) = 0.894$ W/Kg, so 2.4G OFDM SAR test is not required.

8.4.2 2.4G WIFI-Level1

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4	802.11b	1	2412	15.60	17.50	Yes
		2	2417	/	17.50	No
		6	2437	16.09	17.50	Yes
		10	2457	/	17.50	No
		11	2462	15.96	17.50	Yes
	802.11g	1	2412	14.04	16.00	No
		2	2417	15.10	17.00	No
		3	2422	15.64	17.50	No
		6	2437	16.07	17.50	No
		9	2452	15.95	17.50	No
		10	2457	15.39	17.00	No
		11	2462	14.09	16.00	No
	802.11n(HT20)	1	2412	13.15	15.00	No
		2	2417	15.03	17.00	No
		3	2422	15.67	17.50	No
		6	2437	15.87	17.50	No
		9	2452	15.91	17.50	No
		10	2457	15.21	17.00	No
		11	2462	14.08	16.00	No
	802.11n(HT40)	3	2422	11.01	13.00	No
		4	2427	9.09	11.00	No
		5	2432	15.58	17.50	No
		6	2437	15.75	17.50	No
		7	2442	15.71	17.50	No
		8	2447	13.38	15.00	No
		9	2452	11.79	13.50	No
	VHT20	1	2412	13.63	15.50	No
		2	2417	15.03	17.00	No
		3	2422	15.57	17.50	No
		6	2437	15.97	17.50	No
		9	2452	15.91	17.50	No
		10	2457	15.20	17.00	No
		11	2462	14.04	16.00	No
	VHT40	3	2422	11.06	13.00	No
		4	2427	9.10	11.00	No
		5	2432	15.00	17.00	No

		6	2437	15.70	17.50	No
		7	2442	15.76	17.50	No
		8	2447	15.71	17.50	No
		9	2452	14.09	16.00	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/VHT) 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 = $1.125 * (56.23\text{mW}/56.23\text{mW}) = 1.125$ W/Kg, so 2.4G OFDM SAR test is not required.

8.4.3 2.4G WIFI-Level2

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4	802.11b	1	2412	12.63	14.50	No
		2	2417	/	14.50	No
		6	2437	13.00	14.50	Yes
		10	2457	/	14.50	No
		11	2462	12.93	14.50	No
	802.11g	1	2412	12.66	14.50	No
		2	2417	/	14.50	No
		3	2422	/	14.50	No
		6	2437	13.01	14.50	No
		9	2452	/	14.50	No
		10	2457	/	14.50	No
		11	2462	12.59	14.50	No
	802.11n(HT20)	1	2412	12.67	14.50	No
		2	2417	/	14.50	No
		3	2422	/	14.50	No
		6	2437	12.90	14.50	No
		9	2452	/	14.50	No
		10	2457	/	14.50	No
		11	2462	12.52	14.50	No
	802.11n(HT40)	3	2422	11.01	13.00	No
		4	2427	9.09	11.00	No
		5	2432	12.60	14.50	No
		6	2437	12.74	14.50	No
		7	2442	/	14.50	No
		8	2447	12.93	14.50	No
		9	2452	11.79	13.50	No
	VHT20	1	2412	12.55	14.50	No
		2	2417	/	14.50	No
		3	2422	/	14.50	No
		6	2437	12.86	14.50	No
		9	2452	/	14.50	No
		10	2457	/	14.50	No
		11	2462	12.54	14.50	No
	VHT40	3	2422	11.06	13.00	No
		4	2427	9.10	11.00	No
		5	2432	12.50	14.50	No

		6	2437	12.79	14.50	No
		7	2442	/	14.50	No
		8	2447	/	14.50	No
		9	2452	12.60	14.50	No

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

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

2) When multiple transmission modes (802.11b/g/n/VHT) 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 = $0.551 * (28.18\text{mW}/28.18\text{mW}) = 0.551$ W/Kg, so 2.4G OFDM SAR test is not required.

8.4.4 2.4G WIFI-Level3

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4	802.11b	1	2412	17.09	19.00	No
		2	2417	18.18	20.00	No
		6	2437	18.56	20.00	Yes
		10	2457	18.51	20.00	No
		11	2462	17.42	19.00	No
	802.11g	1	2412	14.04	16.00	No
		2	2417	15.10	17.00	No
		3	2422	17.15	19.00	No
		6	2437	17.52	19.00	No
		9	2452	17.49	19.00	No
		10	2457	15.39	17.00	No
		11	2462	14.09	16.00	No
	802.11n(HT20)	1	2412	13.15	15.00	No
		2	2417	15.03	17.00	No
		3	2422	17.07	19.00	No
		6	2437	17.36	19.00	No
		9	2452	17.30	19.00	No
		10	2457	15.21	17.00	No
		11	2462	14.08	16.00	No
	802.11n(HT40)	3	2422	11.01	13.00	No
		4	2427	9.09	11.00	No
		5	2432	16.15	18.00	No
		6	2437	16.21	18.00	No
		7	2442	16.19	18.00	No
		8	2447	13.38	15.00	No
		9	2452	11.79	13.50	No
	VHT20	1	2412	13.63	15.50	No
		2	2417	15.03	17.00	No
		3	2422	17.10	19.00	No
		6	2437	17.36	19.00	No
		9	2452	17.32	19.00	No
		10	2457	15.20	17.00	No
		11	2462	14.04	16.00	No
	VHT40	3	2422	11.06	13.00	No
		4	2427	9.10	11.00	No
		5	2432	15.00	17.00	No

		6	2437	16.19	18.00	No
		7	2442	16.22	18.00	No
		8	2447	15.71	17.50	No
		9	2452	14.09	16.00	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/VHT) 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 = $0.362 * (79.43\text{mW}/100.00\text{mW}) = 0.288$ W/Kg, so 2.4G OFDM SAR test is not required.

8.4.5 2.4G WIFI-Level4

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4	802.11b	1	2412	17.09	19.00	No
		2	2417	17.77	19.50	No
		6	2437	18.07	19.50	Yes
		10	2457	18.01	19.50	No
		11	2462	17.42	19.00	No
	802.11g	1	2412	14.04	16.00	No
		2	2417	15.10	17.00	No
		3	2422	17.15	19.00	No
		6	2437	17.52	19.00	No
		9	2452	17.49	19.00	No
		10	2457	15.39	17.00	No
		11	2462	14.09	16.00	No
	802.11n(HT20)	1	2412	13.15	15.00	No
		2	2417	15.03	17.00	No
		3	2422	17.07	19.00	No
		6	2437	17.36	19.00	No
		9	2452	17.30	19.00	No
		10	2457	15.21	17.00	No
		11	2462	14.08	16.00	No
	802.11n(HT40)	3	2422	11.01	13.00	No
		4	2427	9.09	11.00	No
		5	2432	16.15	18.00	No
		6	2437	16.21	18.00	No
		7	2442	16.19	18.00	No
		8	2447	13.38	15.00	No
		9	2452	11.79	13.50	No
	VHT20	1	2412	13.63	15.50	No
		2	2417	15.03	17.00	No
		3	2422	17.10	19.00	No
		6	2437	17.36	19.00	No
		9	2452	17.32	19.00	No
		10	2457	15.20	17.00	No
		11	2462	14.04	16.00	No
	VHT40	3	2422	11.06	13.00	No
		4	2427	9.10	11.00	No
		5	2432	15.00	17.00	No

		6	2437	16.19	18.00	No
		7	2442	16.22	18.00	No
		8	2447	15.71	17.50	No
		9	2452	14.09	16.00	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/VHT) 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 = $0.776 * (79.43\text{mW}/89.13\text{mW}) = 0.692$ W/Kg, so 2.4G OFDM SAR test is not required.

8.4.6 5G WIFI-Full power

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2	802.11a	36	5180	16.01	17.50	No
		40	5200	16.85	18.50	No
		44	5220	16.87	18.50	No
		48	5240	16.73	18.50	No
	802.11n(HT20)	36	5180	15.83	17.50	No
		40	5200	16.65	18.50	No
		44	5220	16.66	18.50	No
		48	5240	16.55	18.50	No
	802.11n(HT40)	38	5190	12.33	14.00	No
		46	5230	15.96	17.50	No
	802.11ac(VHT20)	36	5180	15.73	17.50	No
		40	5200	16.63	18.50	No
		44	5220	16.63	18.50	No
		48	5240	16.56	18.50	No
	802.11ac(VHT40)	38	5190	12.31	14.00	No
		46	5230	15.91	17.50	No
	802.11ac(VHT80)	42	5210	10.56	12.50	No
5.3	802.11a	52	5260	16.69	18.50	No
		60	5300	16.59	18.50	No
		64	5320	15.56	17.50	No
	802.11n(HT20)	52	5260	16.50	18.50	No
		56	5280	16.52	18.50	No
		60	5300	16.19	18.00	No
		64	5320	15.59	17.50	No
	802.11n(HT40)	54	5270	15.74	17.50	No
		62	5310	11.55	13.50	No
	802.11ac(VHT20)	52	5260	16.58	18.50	No
		56	5280	16.52	18.50	No
		60	5300	16.16	18.00	No
		64	5320	15.54	17.50	No
	802.11ac(VHT40)	54	5270	15.79	17.50	No
		62	5310	11.51	13.50	No
	802.11ac(VHT80)	58	5290	10.55	12.50	No
5.6	802.11a	100	5500	15.73	17.00	No
		104	5520	17.35	18.00	No
		116	5580	17.40	18.00	No

		136	5680	17.28	18.00	No
		140	5700	15.98	16.50	No
	802.11n(HT20)	100	5500	14.57	16.00	No
		104	5520	17.62	18.50	No
		116	5580	17.75	18.50	No
		136	5680	17.68	18.50	No
		140	5700	15.30	16.00	No
	802.11n(HT40)	102	5510	12.47	14.00	No
		110	5550	16.68	17.50	No
		118	5590	16.74	17.50	No
		134	5670	16.75	17.50	No
	802.11ac(VHT20)	100	5500	14.51	16.00	No
		104	5520	17.58	18.50	No
		116	5580	17.69	18.50	No
		136	5680	17.62	18.50	No
		140	5700	15.22	16.00	No
	802.11ac(VHT40)	102	5510	12.42	14.00	No
		110	5550	16.68	17.50	No
		118	5590	16.74	17.50	No
		134	5670	16.78	17.50	No
	802.11ac(VHT80)	106	5530	10.90	12.50	No
		122	5610	16.33	17.50	No
5.8	802.11a	149	5745	17.56	18.50	No
		157	5785	17.16	18.50	No
		161	5805	17.06	18.50	No
		165	5825	16.04	18.00	No
	802.11n(HT20)	149	5745	16.87	18.00	No
		153	5765	16.85	18.50	No
		157	5785	16.95	18.50	No
		161	5805	16.90	18.50	No
		165	5825	15.53	17.50	No
	802.11n(HT40)	151	5755	16.15	17.50	No
		159	5795	15.53	17.50	No
	802.11ac(VHT20)	149	5745	16.91	18.00	No
		153	5765	16.83	18.50	No
		157	5785	16.95	18.50	No
		161	5805	16.88	18.50	No
		165	5825	15.52	17.50	No
	802.11ac(VHT40)	151	5755	16.24	17.50	No

		159	5795	15.55	17.50	No
	802.11ac(VHT80)	155	5775	15.64	17.50	No

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

8.4.7 5G WIFI-Level1

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2	802.11a	36	5180	14.02	14.50	No
		40	5200	/	14.50	No
		44	5220	13.94	14.50	No
		48	5240	13.66	14.50	No
	802.11n(HT20)	36	5180	13.75	14.50	No
		40	5200	/	14.50	No
		44	5220	13.76	14.50	No
		48	5240	13.57	14.50	No
	802.11n(HT40)	38	5190	13.33	14.00	No
		46	5230	13.97	14.50	No
	802.11ac(VHT20)	36	5180	13.77	14.50	No
		40	5200	/	14.50	No
		44	5220	13.68	14.50	No
		48	5240	13.51	14.50	No
	802.11ac(VHT40)	38	5190	13.31	14.00	No
		46	5230	13.84	14.50	No
	802.11ac(VHT80)	42	5210	10.56	12.50	No
5.3	802.11a	52	5260	13.76	14.50	No
		60	5300	13.52	14.50	No
		64	5320	13.63	14.50	No
	802.11n(HT20)	52	5260	13.60	14.50	No
		56	5280	/	14.50	No
		60	5300	13.77	14.50	No
		64	5320	13.52	14.50	No
	802.11n(HT40)	54	5270	13.83	14.50	Yes
		62	5310	11.55	13.50	No
	802.11ac(VHT20)	52	5260	13.52	14.50	No
		56	5280	/	14.50	No
		60	5300	13.65	14.50	No
		64	5320	13.56	14.50	No
	802.11ac(VHT40)	54	5270	13.73	14.50	No
		62	5310	11.51	13.50	No
	802.11ac(VHT80)	58	5290	10.55	12.50	No
5.6	802.11a	100	5500	13.33	14.50	No
		104	5520	/	14.50	No
		116	5580	13.96	14.50	No

		136	5680	/	14.50	No
		140	5700	14.03	14.50	No
	802.11n(HT20)	100	5500	13.15	14.50	No
		104	5520	/	14.50	No
		116	5580	13.70	14.50	No
		136	5680	/	14.50	No
		140	5700	13.85	14.50	No
	802.11n(HT40)	102	5510	12.47	14.00	No
		110	5550	13.77	14.50	No
		118	5590	13.74	14.50	No
		134	5670	13.72	14.50	No
	802.11ac(VHT20)	100	5500	13.10	14.50	No
		104	5520	/	14.50	No
		116	5580	13.74	14.50	No
		136	5680	/	14.50	No
		140	5700	13.84	14.50	No
	802.11ac(VHT40)	102	5510	12.42	14.00	No
		110	5550	13.75	14.50	No
		118	5590	13.70	14.50	No
		134	5670	13.72	14.50	No
	802.11ac(VHT80)	106	5530	10.90	12.50	No
		122	5610	13.94	14.50	Yes
5.8	802.11a	149	5745	13.66	14.50	No
		157	5785	13.19	14.50	No
		161	5805	/	14.50	No
		165	5825	12.66	14.50	No
	802.11n(HT20)	149	5745	13.32	14.50	No
		153	5765	/	14.50	No
		157	5785	12.99	14.50	No
		161	5805	/	14.50	No
		165	5825	12.57	14.50	No
	802.11n(HT40)	151	5755	13.24	14.50	No
		159	5795	12.53	14.50	No
	802.11ac(VHT20)	149	5745	13.41	14.50	No
		153	5765	/	14.50	No
		157	5785	12.88	14.50	No
		161	5805	/	14.50	No
		165	5825	12.53	14.50	No
	802.11ac(VHT40)	151	5755	13.36	14.50	No

		159	5795	12.60	14.50	No
	802.11ac(VHT80)	155	5775	13.32	14.50	Yes

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

8.4.8 5G WIFI-Level2

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2	802.11a	36	5180	10.52	11.50	No
		40	5200	/	11.50	No
		44	5220	10.36	11.50	No
		48	5240	10.33	11.50	No
	802.11n(HT20)	36	5180	10.35	11.50	No
		40	5200	/	11.50	No
		44	5220	10.23	11.50	No
		48	5240	10.03	11.50	No
	802.11n(HT40)	38	5190	10.40	11.50	No
		46	5230	10.52	11.50	No
	802.11ac(VHT20)	36	5180	10.18	11.50	No
		40	5200	/	11.50	No
		44	5220	10.19	11.50	No
		48	5240	10.07	11.50	No
	802.11ac(VHT40)	38	5190	10.29	11.50	No
		46	5230	10.37	11.50	No
	802.11ac(VHT80)	42	5210	10.14	11.50	No
5.3	802.11a	52	5260	10.16	11.50	No
		60	5300	10.01	11.50	No
		64	5320	10.03	11.50	No
	802.11n(HT20)	52	5260	10.07	11.50	No
		56	5280	/	11.50	No
		60	5300	10.29	11.50	No
		64	5320	10.16	11.50	No
	802.11n(HT40)	54	5270	10.21	11.50	No
		62	5310	10.13	11.50	No
	802.11ac(VHT20)	52	5260	10.10	11.50	No
		56	5280	/	11.50	No
		60	5300	10.16	11.50	No
		64	5320	10.00	11.50	No
	802.11ac(VHT40)	54	5270	10.22	11.50	No
		62	5310	10.08	11.50	No
	802.11ac(VHT80)	58	5290	10.19	11.50	Yes
5.6	802.11a	100	5500	10.34	11.50	No
		104	5520	/	11.50	No
		116	5580	10.90	11.50	No

		136	5680	/	11.50	No
		140	5700	10.93	11.50	No
	802.11n(HT20)	100	5500	10.16	11.50	No
		104	5520	/	11.50	No
		116	5580	10.84	11.50	No
		136	5680	/	11.50	No
		140	5700	10.85	11.50	No
	802.11n(HT40)	102	5510	9.94	11.50	No
		110	5550	/	11.50	No
		118	5590	10.82	11.50	No
		134	5670	10.74	11.50	No
	802.11ac(VHT20)	100	5500	9.94	11.50	No
		104	5520	/	11.50	No
		116	5580	10.68	11.50	No
		136	5680	/	11.50	No
		140	5700	10.73	11.50	No
	802.11ac(VHT40)	102	5510	9.96	11.50	No
		110	5550	/	11.50	No
		118	5590	10.79	11.50	No
		134	5670	10.80	11.50	No
	802.11ac(VHT80)	106	5530	10.00	11.50	No
		122	5610	10.83	11.50	Yes
5.8	802.11a	149	5745	10.66	11.50	No
		157	5785	10.20	11.50	No
		161	5805	/	11.50	No
		165	5825	9.56	11.50	No
	802.11n(HT20)	149	5745	10.48	11.50	No
		153	5765	/	11.50	No
		157	5785	9.95	11.50	No
		161	5805	/	11.50	No
		165	5825	9.65	11.50	No
	802.11n(HT40)	151	5755	10.18	11.50	No
		159	5795	9.59	11.50	No
	802.11ac(VHT20)	149	5745	10.40	11.50	No
		153	5765	/	11.50	No
		157	5785	10.07	11.50	No
		161	5805	/	11.50	No
		165	5825	9.60	11.50	No
	802.11ac(VHT40)	151	5755	10.26	11.50	No

		159	5795	9.65	11.50	No
	802.11ac(VHT80)	155	5775	10.27	11.50	Yes

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

8.4.9 5G WIFI-Level3

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2	802.11a	36	5180	16.01	17.50	No
		40	5200	16.85	18.50	No
		44	5220	16.87	18.50	Yes
		48	5240	16.73	18.50	No
	802.11n(HT20)	36	5180	15.83	17.50	No
		40	5200	16.65	18.50	No
		44	5220	16.66	18.50	No
		48	5240	16.55	18.50	No
	802.11n(HT40)	38	5190	12.33	14.00	No
		46	5230	15.96	17.50	No
	802.11ac(VHT20)	36	5180	15.73	17.50	No
		40	5200	16.63	18.50	No
		44	5220	16.63	18.50	No
		48	5240	16.56	18.50	No
	802.11ac(VHT40)	38	5190	12.31	14.00	No
		46	5230	15.91	17.50	No
	802.11ac(VHT80)	42	5210	10.56	12.50	No
5.3	802.11a	52	5260	16.69	18.50	Yes
		60	5300	16.59	18.50	No
		64	5320	15.56	17.50	No
	802.11n(HT20)	52	5260	16.50	18.50	No
		56	5280	16.52	18.50	No
		60	5300	16.19	18.00	No
		64	5320	15.59	17.50	No
	802.11n(HT40)	54	5270	15.74	17.50	No
		62	5310	11.55	13.50	No
	802.11ac(VHT20)	52	5260	16.58	18.50	No
		56	5280	16.52	18.50	No
		60	5300	16.16	18.00	No
		64	5320	15.54	17.50	No
	802.11ac(VHT40)	54	5270	15.79	17.50	No
		62	5310	11.51	13.50	No
	802.11ac(VHT80)	58	5290	10.55	12.50	No
5.6	802.11a	100	5500	15.73	17.00	No
		104	5520	17.35	18.00	No
		116	5580	17.40	18.00	No

		136	5680	17.28	18.00	No
		140	5700	15.98	16.50	No
	802.11n(HT20)	100	5500	14.57	16.00	No
		104	5520	17.62	18.50	No
		116	5580	17.75	18.50	Yes
		136	5680	17.68	18.50	No
		140	5700	15.30	16.00	No
	802.11n(HT40)	102	5510	12.47	14.00	No
		110	5550	16.68	17.50	No
		118	5590	16.74	17.50	No
		134	5670	16.75	17.50	No
	802.11ac(VHT20)	100	5500	14.51	16.00	No
		104	5520	17.58	18.50	No
		116	5580	17.69	18.50	No
		136	5680	17.62	18.50	No
		140	5700	15.22	16.00	No
	802.11ac(VHT40)	102	5510	12.42	14.00	No
		110	5550	16.68	17.50	No
		118	5590	16.74	17.50	No
		134	5670	16.78	17.50	No
	802.11ac(VHT80)	106	5530	10.90	12.50	No
		122	5610	16.33	17.50	No
5.8	802.11a	149	5745	17.56	18.50	Yes
		157	5785	17.16	18.50	Yes
		161	5805	17.06	18.50	Yes
		165	5825	16.04	18.00	No
	802.11n(HT20)	149	5745	16.87	18.00	No
		153	5765	16.85	18.50	No
		157	5785	16.95	18.50	No
		161	5805	16.90	18.50	No
		165	5825	15.53	17.50	No
	802.11n(HT40)	151	5755	16.15	17.50	No
		159	5795	15.53	17.50	No
	802.11ac(VHT20)	149	5745	16.91	18.00	No
		153	5765	16.83	18.50	No
		157	5785	16.95	18.50	No
		161	5805	16.88	18.50	No
		165	5825	15.52	17.50	No
	802.11ac(VHT40)	151	5755	16.24	17.50	No

		159	5795	15.55	17.50	No
	802.11ac(VHT80)	155	5775	15.64	17.50	No

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

8.4.10 5G WIFI-Level4

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2	802.11a	36	5180	10.63	12.00	No
		40	5200	/	12.00	No
		44	5220	10.37	12.00	No
		48	5240	10.15	12.00	No
	802.11n(HT20)	36	5180	10.33	12.00	No
		40	5200	/	12.00	No
		44	5220	10.28	12.00	No
		48	5240	10.17	12.00	No
	802.11n(HT40)	38	5190	10.32	12.00	No
		46	5230	10.47	12.00	No
	802.11ac(VHT20)	36	5180	10.20	12.00	No
		40	5200	/	12.00	No
		44	5220	10.12	12.00	No
		48	5240	10.10	12.00	No
	802.11ac(VHT40)	38	5190	10.38	12.00	No
		46	5230	10.43	12.00	No
	802.11ac(VHT80)	42	5210	10.48	12.00	Yes
5.3	802.11a	52	5260	10.28	12.00	No
		60	5300	10.18	12.00	No
		64	5320	10.03	12.00	No
	802.11n(HT20)	52	5260	10.10	12.00	No
		56	5280	/	12.00	No
		60	5300	10.16	12.00	No
		64	5320	10.02	12.00	No
	802.11n(HT40)	54	5270	10.17	12.00	No
		62	5310	10.06	12.00	No
	802.11ac(VHT20)	52	5260	10.05	12.00	No
		56	5280	/	12.00	No
		60	5300	10.15	12.00	No
		64	5320	10.16	12.00	No
	802.11ac(VHT40)	54	5270	10.37	12.00	No
		62	5310	10.11	12.00	No
	802.11ac(VHT80)	58	5290	10.11	12.00	Yes
5.6	802.11a	100	5500	10.78	12.00	No
		104	5520	/	12.00	No
		116	5580	11.40	12.00	No

		136	5680	/	12.00	No
		140	5700	11.41	12.00	No
	802.11n(HT20)	100	5500	10.49	12.00	No
		104	5520	/	12.00	No
		116	5580	11.30	12.00	No
		136	5680	/	12.00	No
		140	5700	11.30	12.00	No
	802.11n(HT40)	102	5510	10.42	12.00	No
		110	5550	/	12.00	No
		118	5590	11.32	12.00	No
		134	5670	11.20	12.00	No
	802.11ac(VHT20)	100	5500	10.59	12.00	No
		104	5520	/	12.00	No
		116	5580	11.21	12.00	No
		136	5680	/	12.00	No
		140	5700	11.14	12.00	No
	802.11ac(VHT40)	102	5510	10.51	12.00	No
		110	5550	/	12.00	No
		118	5590	11.36	12.00	No
		134	5670	11.23	12.00	No
	802.11ac(VHT80)	106	5530	10.48	12.00	No
		122	5610	11.21	12.00	Yes
5.8	802.11a	149	5745	11.18	12.00	No
		157	5785	10.72	12.00	No
		161	5805	/	12.00	No
		165	5825	10.05	12.00	No
	802.11n(HT20)	149	5745	10.89	12.00	No
		153	5765	/	12.00	No
		157	5785	10.50	12.00	No
		161	5805	/	12.00	No
		165	5825	10.03	12.00	No
	802.11n(HT40)	151	5755	10.66	12.00	No
		159	5795	10.00	12.00	No
	802.11ac(VHT20)	149	5745	10.94	12.00	No
		153	5765	/	12.00	No
		157	5785	10.54	12.00	No
		161	5805	/	12.00	No
		165	5825	10.01	12.00	No
	802.11ac(VHT40)	151	5755	10.81	12.00	No

		159	5795	10.10	12.00	No
	802.11ac(VHT80)	155	5775	10.80	12.00	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.

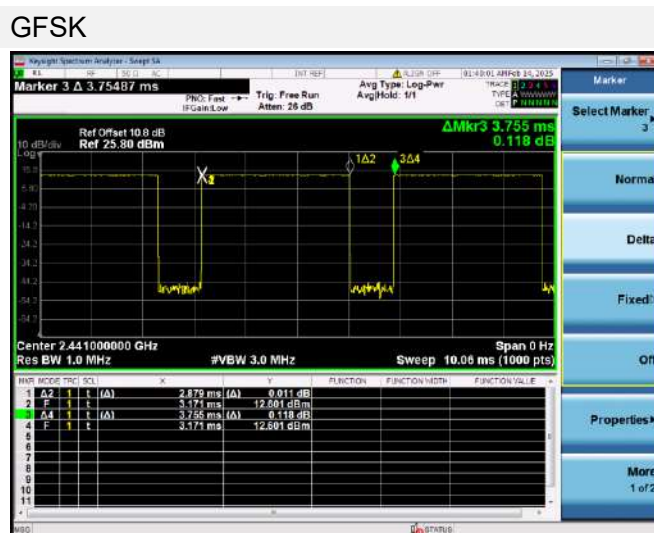
8.5 Bluetooth

Mode	GFSK			$\pi/4$ -DQPSK		
Channel	0	39	78	0	39	78
Frequency (MHz)	2402	2441	2480	2402	2441	2480
Conducted Power (dBm)	12.48	12.59	12.23	7.88	8.13	7.91
Tune-Up Limit (dBm)	13.00	13.00	13.00	9.00	9.00	9.00
SAR Test Require	NO	YES	NO	NO	NO	NO
Mode	8-DPSK			BLE-1Mbps		
Channel	0	39	78	0	19	39
Frequency (MHz)	2402	2441	2480	2402	2440	2480
Conducted Power (dBm)	7.85	8.12	7.89	3.93	4.32	4.49
Tune-Up Limit (dBm)	9.00	9.00	9.00	5.50	5.50	5.50
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 77.6%, therefore the actual duty cycle will be scaled up to 77.6% for Bluetooth reported SAR calculation.

Duty Cycle



8.6 Power Reduction List

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

WWAN Reduced power level table

Reduced level	Receiver state	Transmitting conditions	Antenna	Position
State2	On (head scenario)	WWAN Use Only	Ant.1	Head
			Ant.0	
State4	On (head scenario)	WWAN + WLAN	Ant.1	Head
			Ant.0	
State1	Off (Body/Extremity scenario)	WWAN Use Only	Ant.1	Front Side;Back Side;Left Edge;Right Edge;Top Edge;Bottom Edge
			Ant.0	
State3	Off (Body/Hotspot/Extremity scenario)	WWAN + WLAN	Ant.1	Front Side;Back Side;Left Edge;Right Edge;Top Edge;Bottom Edge
			Ant.0	

WWAN Antenna Power table

Mode	Antenna	WWAN Antenna							
		Full Power	Receiver on		Receiver off				
			Head		Body-Worn		Hotspot	Specific	
			Standalone	Simultaneous transmission	Standalone	Simultaneous transmission	Simultaneous transmission	Standalone	Simultaneous transmission
		Off	State2	State4	State1	State3	State3	State1	State3
GSM 850	Ant.1	34.00	31.50	30.50	34.00	33.00	33.00	34.00	33.00
GPRS850 1 Tx Slot	Ant.1	34.00	31.50	30.50	34.00	33.00	33.00	34.00	33.00
GPRS850 2 Tx Slot	Ant.1	31.00	28.50	27.50	31.00	30.00	30.00	31.00	30.00
GPRS850 3 Tx Slot	Ant.1	29.50	27.00	26.00	29.50	28.50	28.50	29.50	28.50
GPRS850 4 Tx Slot	Ant.1	28.00	25.50	24.50	28.00	27.00	27.00	28.00	27.00
EGPRS850 1 Tx Slot	Ant.1	28.00	25.50	24.50	28.00	27.00	27.00	28.00	27.00
EGPRS850 2 Tx Slot	Ant.1	25.00	22.50	21.50	25.00	24.00	24.00	25.00	24.00
EGPRS850 3 Tx Slot	Ant.1	23.50	21.00	20.00	23.50	22.50	22.50	23.50	22.50
EGPRS850 4 Tx Slot	Ant.1	22.00	19.50	18.50	22.00	21.00	21.00	22.00	21.00
GSM 850	Ant.0	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00
GPRS850 1 Tx Slot	Ant.0	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00
GPRS850 2 Tx Slot	Ant.0	31.00	31.00	31.00	31.00	31.00	31.00	31.00	31.00

GPRS850 3 Tx Slot	Ant.0	29.50	29.50	29.50	29.50	29.50	29.50	29.50	29.50
GPRS850 4 Tx Slot	Ant.0	28.00	28.00	28.00	28.00	28.00	28.00	28.00	28.00
EGPRS850 1 Tx Slot	Ant.0	28.00	28.00	28.00	28.00	28.00	28.00	28.00	28.00
EGPRS850 2 Tx Slot	Ant.0	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00
EGPRS850 3 Tx Slot	Ant.0	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.50
EGPRS850 4 Tx Slot	Ant.0	22.00	22.00	22.00	22.00	22.00	22.00	22.00	22.00
GSM900	Ant.1	34.00	32.00	31.00	34.00	33.00	33.00	34.00	33.00
GPRS900 1 Tx Slot	Ant.1	34.00	32.00	31.00	34.00	33.00	33.00	34.00	33.00
GPRS900 2 Tx Slot	Ant.1	31.00	29.00	28.00	31.00	30.00	30.00	31.00	30.00
GPRS900 3 Tx Slot	Ant.1	29.50	27.50	26.50	29.50	28.50	28.50	29.50	28.50
GPRS900 4 Tx Slot	Ant.1	28.00	26.00	25.00	28.00	27.00	27.00	28.00	27.00
EGPRS900 1 Tx Slot	Ant.1	28.00	26.00	25.00	28.00	27.00	27.00	28.00	27.00
EGPRS900 2 Tx Slot	Ant.1	25.00	23.00	22.00	25.00	24.00	24.00	25.00	24.00
EGPRS900 3 Tx Slot	Ant.1	23.50	21.50	20.50	23.50	22.50	22.50	23.50	22.50
EGPRS900 4 Tx Slot	Ant.1	22.00	20.00	19.00	22.00	21.00	21.00	22.00	21.00
GSM900	Ant.0	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00
GPRS900 1 Tx Slot	Ant.0	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00
GPRS900 2 Tx Slot	Ant.0	31.00	31.00	31.00	31.00	31.00	31.00	31.00	31.00
GPRS900 3 Tx Slot	Ant.0	29.50	29.50	29.50	29.50	29.50	29.50	29.50	29.50
GPRS900 4 Tx Slot	Ant.0	28.00	28.00	28.00	28.00	28.00	28.00	28.00	28.00
EGPRS900 1 Tx Slot	Ant.0	28.00	28.00	28.00	28.00	28.00	28.00	28.00	28.00
EGPRS900 2 Tx Slot	Ant.0	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00
EGPRS900 3 Tx Slot	Ant.0	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.50
EGPRS900 4 Tx Slot	Ant.0	22.00	22.00	22.00	22.00	22.00	22.00	22.00	22.00
GSM1900	Ant.1	31.00	26.50	25.50	31.00	28.00	28.00	31.00	28.00
GPRS1900 1 Tx Slot	Ant.1	31.00	26.50	25.50	31.00	28.00	28.00	31.00	28.00
GPRS1900 2 Tx Slot	Ant.1	28.00	23.50	22.50	28.00	25.00	25.00	28.00	25.00
GPRS1900 3 Tx Slot	Ant.1	26.50	22.00	21.00	26.50	23.50	23.50	26.50	23.50
GPRS1900 4 Tx Slot	Ant.1	25.00	20.50	19.50	25.00	22.00	22.00	25.00	22.00
EGPRS1900 1 Tx Slot	Ant.1	27.00	22.50	21.50	27.00	24.00	24.00	27.00	24.00
EGPRS1900 2 Tx Slot	Ant.1	24.00	19.50	18.50	24.00	21.00	21.00	24.00	21.00
EGPRS1900 3 Tx Slot	Ant.1	22.50	18.00	17.00	22.50	19.50	19.50	22.50	19.50
EGPRS1900 4 Tx Slot	Ant.1	21.00	16.50	15.50	21.00	18.00	18.00	21.00	18.00
GSM1900	Ant.0	31.00	31.00	31.00	31.00	30.00	30.00	31.00	30.00
GPRS1900 1 Tx Slot	Ant.0	31.00	31.00	31.00	31.00	30.00	30.00	31.00	30.00
GPRS1900 2 Tx Slot	Ant.0	28.00	28.00	28.00	28.00	27.00	27.00	28.00	27.00
GPRS1900 3 Tx Slot	Ant.0	26.50	26.50	26.50	26.50	25.50	25.50	26.50	25.50
GPRS1900 4 Tx Slot	Ant.0	25.00	25.00	25.00	25.00	24.00	24.00	25.00	24.00
EGPRS1900 1 Tx Slot	Ant.0	27.00	27.00	27.00	27.00	26.00	26.00	27.00	26.00
EGPRS1900 2 Tx Slot	Ant.0	24.00	24.00	24.00	24.00	23.00	23.00	24.00	23.00
EGPRS1900 3 Tx Slot	Ant.0	22.50	22.50	22.50	22.50	21.50	21.50	22.50	21.50
EGPRS1900 4 Tx Slot	Ant.0	21.00	21.00	21.00	21.00	20.00	20.00	21.00	20.00
WCDMA Band2 RMC	Ant.1	25.00	16.50	16.50	21.50	18.00	18.00	21.50	18.00

WCDMA Band2 AMR	Ant.1	25.00	16.50	16.50	21.50	18.00	18.00	21.50	18.00
HSDPA Subtest-1	Ant.1	23.80	15.30	15.30	20.30	16.80	16.80	20.30	16.80
HSDPA Subtest-2	Ant.1	23.80	15.30	15.30	20.30	16.80	16.80	20.30	16.80
HSDPA Subtest-3	Ant.1	23.30	14.80	14.80	19.80	16.30	16.30	19.80	16.30
HSDPA Subtest-4	Ant.1	23.30	14.80	14.80	19.80	16.30	16.30	19.80	16.30
DC-HSDPA Subtest-1	Ant.1	23.80	15.30	15.30	20.30	16.80	16.80	20.30	16.80
DC-HSDPA Subtest-2	Ant.1	23.80	15.30	15.30	20.30	16.80	16.80	20.30	16.80
DC-HSDPA Subtest-3	Ant.1	23.30	14.80	14.80	19.80	16.30	16.30	19.80	16.30
DC-HSDPA Subtest-4	Ant.1	23.30	14.80	14.80	19.80	16.30	16.30	19.80	16.30
HSUPA Subtest-1	Ant.1	23.80	15.30	15.30	20.30	16.80	16.80	20.30	16.80
HSUPA Subtest-2	Ant.1	21.80	13.30	13.30	18.30	14.80	14.80	18.30	14.80
HSUPA Subtest-3	Ant.1	22.80	14.30	14.30	19.30	15.80	15.80	19.30	15.80
HSUPA Subtest-4	Ant.1	21.80	13.30	13.30	18.30	14.80	14.80	18.30	14.80
HSUPA Subtest-5	Ant.1	23.80	15.30	15.30	20.30	16.80	16.80	20.30	16.80
HSPA+	Ant.1	22.80	14.30	14.30	19.30	15.80	15.80	19.30	15.80
WCDMA Band2 RMC	Ant.0	25.00	25.00	25.00	22.50	20.50	20.50	22.50	20.50
WCDMA Band2 AMR	Ant.0	25.00	25.00	25.00	22.50	20.50	20.50	22.50	20.50
HSDPA Subtest-1	Ant.0	23.80	23.80	23.80	21.30	19.30	19.30	21.30	19.30
HSDPA Subtest-2	Ant.0	23.80	23.80	23.80	21.30	19.30	19.30	21.30	19.30
HSDPA Subtest-3	Ant.0	23.30	23.30	23.30	20.80	18.80	18.80	20.80	18.80
HSDPA Subtest-4	Ant.0	23.30	23.30	23.30	20.80	18.80	18.80	20.80	18.80
DC-HSDPA Subtest-1	Ant.0	23.80	23.80	23.80	21.30	19.30	19.30	21.30	19.30
DC-HSDPA Subtest-2	Ant.0	23.80	23.80	23.80	21.30	19.30	19.30	21.30	19.30
DC-HSDPA Subtest-3	Ant.0	23.30	23.30	23.30	20.80	18.80	18.80	20.80	18.80
DC-HSDPA Subtest-4	Ant.0	23.30	23.30	23.30	20.80	18.80	18.80	20.80	18.80
HSUPA Subtest-1	Ant.0	23.80	23.80	23.80	21.30	19.30	19.30	21.30	19.30
HSUPA Subtest-2	Ant.0	21.80	21.80	21.80	19.30	17.30	17.30	19.30	17.30
HSUPA Subtest-3	Ant.0	22.80	22.80	22.80	20.30	18.30	18.30	20.30	18.30
HSUPA Subtest-4	Ant.0	21.80	21.80	21.80	19.30	17.30	17.30	19.30	17.30
HSUPA Subtest-5	Ant.0	23.80	23.80	23.80	21.30	19.30	19.30	21.30	19.30
HSPA+	Ant.0	22.80	22.80	22.80	20.30	18.30	18.30	20.30	18.30
WCDMA Band4 RMC	Ant.1	25.00	17.50	16.50	22.50	19.00	19.00	22.50	19.00
WCDMA Band4 RMC	Ant.1	25.00	17.50	16.50	22.50	19.00	19.00	22.50	19.00
HSDPA Subtest-1	Ant.1	23.80	16.30	15.30	21.30	17.80	17.80	21.30	17.80
HSDPA Subtest-2	Ant.1	23.80	16.30	15.30	21.30	17.80	17.80	21.30	17.80
HSDPA Subtest-3	Ant.1	23.30	15.80	14.80	20.80	17.30	17.30	20.80	17.30
HSDPA Subtest-4	Ant.1	23.30	15.80	14.80	20.80	17.30	17.30	20.80	17.30
DC-HSDPA Subtest-1	Ant.1	23.80	16.30	15.30	21.30	17.80	17.80	21.30	17.80
DC-HSDPA Subtest-2	Ant.1	23.80	16.30	15.30	21.30	17.80	17.80	21.30	17.80
DC-HSDPA Subtest-3	Ant.1	23.30	15.80	14.80	20.80	17.30	17.30	20.80	17.30
DC-HSDPA Subtest-4	Ant.1	23.30	15.80	14.80	20.80	17.30	17.30	20.80	17.30
HSUPA Subtest-1	Ant.1	23.80	16.30	15.30	21.30	17.80	17.80	21.30	17.80
HSUPA Subtest-2	Ant.1	21.80	14.30	13.30	19.30	15.80	15.80	19.30	15.80

HSUPA Subtest-3	Ant.1	22.80	15.30	14.30	20.30	16.80	16.80	20.30	16.80
HSUPA Subtest-4	Ant.1	21.80	14.30	13.30	19.30	15.80	15.80	19.30	15.80
HSUPA Subtest-5	Ant.1	23.80	16.30	15.30	21.30	17.80	17.80	21.30	17.80
HSPA+	Ant.1	22.80	15.30	14.30	20.30	16.80	16.80	20.30	16.80
WCDMA Band4 RMC	Ant.0	25.00	25.00	25.00	21.00	17.50	17.50	21.00	17.50
WCDMA Band4 RMC	Ant.0	25.00	25.00	25.00	21.00	17.50	17.50	21.00	17.50
HSDPA Subtest-1	Ant.0	23.80	23.80	23.80	19.80	16.30	16.30	19.80	16.30
HSDPA Subtest-2	Ant.0	23.80	23.80	23.80	19.80	16.30	16.30	19.80	16.30
HSDPA Subtest-3	Ant.0	23.30	23.30	23.30	19.30	15.80	15.80	19.30	15.80
HSDPA Subtest-4	Ant.0	23.30	23.30	23.30	19.30	15.80	15.80	19.30	15.80
DC-HSDPA Subtest-1	Ant.0	23.80	23.80	23.80	19.80	16.30	16.30	19.80	16.30
DC-HSDPA Subtest-2	Ant.0	23.80	23.80	23.80	19.80	16.30	16.30	19.80	16.30
DC-HSDPA Subtest-3	Ant.0	23.30	23.30	23.30	19.30	15.80	15.80	19.30	15.80
DC-HSDPA Subtest-4	Ant.0	23.30	23.30	23.30	19.30	15.80	15.80	19.30	15.80
HSUPA Subtest-1	Ant.0	23.80	23.80	23.80	19.80	16.30	16.30	19.80	16.30
HSUPA Subtest-2	Ant.0	21.80	21.80	21.80	17.80	14.30	14.30	17.80	14.30
HSUPA Subtest-3	Ant.0	22.80	22.80	22.80	18.80	15.30	15.30	18.80	15.30
HSUPA Subtest-4	Ant.0	21.80	21.80	21.80	17.80	14.30	14.30	17.80	14.30
HSUPA Subtest-5	Ant.0	23.80	23.80	23.80	19.80	16.30	16.30	19.80	16.30
HSPA+	Ant.0	22.80	22.80	22.80	18.80	15.30	15.30	18.80	15.30
WCDMA Band5 RMC	Ant.1	25.00	22.00	21.00	25.00	24.00	24.00	25.00	24.00
WCDMA Band5 AMR	Ant.1	25.00	22.00	21.00	25.00	24.00	24.00	25.00	24.00
HSDPA Subtest-1	Ant.1	23.80	20.80	19.80	23.80	22.80	22.80	23.80	22.80
HSDPA Subtest-2	Ant.1	23.80	20.80	19.80	23.80	22.80	22.80	23.80	22.80
HSDPA Subtest-3	Ant.1	23.30	20.30	19.30	23.30	22.30	22.30	23.30	22.30
HSDPA Subtest-4	Ant.1	23.30	20.30	19.30	23.30	22.30	22.30	23.30	22.30
DC-HSDPA Subtest-1	Ant.1	23.80	20.80	19.80	23.80	22.80	22.80	23.80	22.80
DC-HSDPA Subtest-2	Ant.1	23.80	20.80	19.80	23.80	22.80	22.80	23.80	22.80
DC-HSDPA Subtest-3	Ant.1	23.30	20.30	19.30	23.30	22.30	22.30	23.30	22.30
DC-HSDPA Subtest-4	Ant.1	23.30	20.30	19.30	23.30	22.30	22.30	23.30	22.30
HSUPA Subtest-1	Ant.1	23.80	20.80	19.80	23.80	22.80	22.80	23.80	22.80
HSUPA Subtest-2	Ant.1	21.80	18.80	17.80	21.80	20.80	20.80	21.80	20.80
HSUPA Subtest-3	Ant.1	22.80	19.80	18.80	22.80	21.80	21.80	22.80	21.80
HSUPA Subtest-4	Ant.1	21.80	18.80	17.80	21.80	20.80	20.80	21.80	20.80
HSUPA Subtest-5	Ant.1	23.80	20.80	19.80	23.80	22.80	22.80	23.80	22.80
HSPA+	Ant.1	22.80	19.80	18.80	22.80	21.80	21.80	22.80	21.80
WCDMA Band5 RMC	Ant.0	25.00	25.00	25.00	24.50	22.50	22.50	24.50	22.50
WCDMA Band5 AMR	Ant.0	25.00	25.00	25.00	24.50	22.50	22.50	24.50	22.50
HSDPA Subtest-1	Ant.0	23.80	23.80	23.80	23.30	21.30	21.30	23.30	21.30
HSDPA Subtest-2	Ant.0	23.80	23.80	23.80	23.30	21.30	21.30	23.30	21.30
HSDPA Subtest-3	Ant.0	23.30	23.30	23.30	22.80	20.80	20.80	22.80	20.80
HSDPA Subtest-4	Ant.0	23.30	23.30	23.30	22.80	20.80	20.80	22.80	20.80
DC-HSDPA Subtest-1	Ant.0	23.80	23.80	23.80	23.30	21.30	21.30	23.30	21.30

DC-HSDPA Subtest-2	Ant.0	23.80	23.80	23.80	23.30	21.30	21.30	23.30	21.30
DC-HSDPA Subtest-3	Ant.0	23.30	23.30	23.30	22.80	20.80	20.80	22.80	20.80
DC-HSDPA Subtest-4	Ant.0	23.30	23.30	23.30	22.80	20.80	20.80	22.80	20.80
HSUPA Subtest-1	Ant.0	23.80	23.80	23.80	23.30	21.30	21.30	23.30	21.30
HSUPA Subtest-2	Ant.0	21.80	21.80	21.80	21.30	19.30	19.30	21.30	19.30
HSUPA Subtest-3	Ant.0	22.80	22.80	22.80	22.30	20.30	20.30	22.30	20.30
HSUPA Subtest-4	Ant.0	21.80	21.80	21.80	21.30	19.30	19.30	21.30	19.30
HSUPA Subtest-5	Ant.0	23.80	23.80	23.80	23.30	21.30	21.30	23.30	21.30
HSPA+	Ant.0	22.80	22.80	22.80	22.30	20.30	20.30	22.30	20.30
WCDMA Band8 RMC	Ant.1	25.00	21.00	20.00	25.00	23.00	23.00	25.00	23.00
WCDMA Band8 AMR	Ant.1	25.00	21.00	20.00	25.00	23.00	23.00	25.00	23.00
HSDPA Subtest-1	Ant.1	23.80	19.80	18.80	23.80	21.80	21.80	23.80	21.80
HSDPA Subtest-2	Ant.1	23.80	19.80	18.80	23.80	21.80	21.80	23.80	21.80
HSDPA Subtest-3	Ant.1	23.30	19.30	18.30	23.30	21.30	21.30	23.30	21.30
HSDPA Subtest-4	Ant.1	23.30	19.30	18.30	23.30	21.30	21.30	23.30	21.30
DC-HSDPA Subtest-1	Ant.1	23.80	19.80	18.80	23.80	21.80	21.80	23.80	21.80
DC-HSDPA Subtest-2	Ant.1	23.80	19.80	18.80	23.80	21.80	21.80	23.80	21.80
DC-HSDPA Subtest-3	Ant.1	23.30	19.30	18.30	23.30	21.30	21.30	23.30	21.30
DC-HSDPA Subtest-4	Ant.1	23.30	19.30	18.30	23.30	21.30	21.30	23.30	21.30
HSUPA Subtest-1	Ant.1	23.80	19.80	18.80	23.80	21.80	21.80	23.80	21.80
HSUPA Subtest-2	Ant.1	21.80	17.80	16.80	21.80	19.80	19.80	21.80	19.80
HSUPA Subtest-3	Ant.1	22.80	18.80	17.80	22.80	20.80	20.80	22.80	20.80
HSUPA Subtest-4	Ant.1	21.80	17.80	16.80	21.80	19.80	19.80	21.80	19.80
HSUPA Subtest-5	Ant.1	23.80	19.80	18.80	23.80	21.80	21.80	23.80	21.80
HSPA+	Ant.1	22.80	18.80	17.80	22.80	20.80	20.80	22.80	20.80
WCDMA Band8 RMC	Ant.0	25.00	25.00	25.00	25.00	23.00	23.00	25.00	23.00
WCDMA Band8 AMR	Ant.0	25.00	25.00	25.00	25.00	23.00	23.00	25.00	23.00
HSDPA Subtest-1	Ant.0	23.80	23.80	23.80	23.80	21.80	21.80	23.80	21.80
HSDPA Subtest-2	Ant.0	23.80	23.80	23.80	23.80	21.80	21.80	23.80	21.80
HSDPA Subtest-3	Ant.0	23.30	23.30	23.30	23.30	21.30	21.30	23.30	21.30
HSDPA Subtest-4	Ant.0	23.30	23.30	23.30	23.30	21.30	21.30	23.30	21.30
DC-HSDPA Subtest-1	Ant.0	23.80	23.80	23.80	23.80	21.80	21.80	23.80	21.80
DC-HSDPA Subtest-2	Ant.0	23.80	23.80	23.80	23.80	21.80	21.80	23.80	21.80
DC-HSDPA Subtest-3	Ant.0	23.30	23.30	23.30	23.30	21.30	21.30	23.30	21.30
DC-HSDPA Subtest-4	Ant.0	23.30	23.30	23.30	23.30	21.30	21.30	23.30	21.30
HSUPA Subtest-1	Ant.0	23.80	23.80	23.80	23.80	21.80	21.80	23.80	21.80
HSUPA Subtest-2	Ant.0	21.80	21.80	21.80	21.80	19.80	19.80	21.80	19.80
HSUPA Subtest-3	Ant.0	22.80	22.80	22.80	22.80	20.80	20.80	22.80	20.80
HSUPA Subtest-4	Ant.0	21.80	21.80	21.80	21.80	19.80	19.80	21.80	19.80
HSUPA Subtest-5	Ant.0	23.80	23.80	23.80	23.80	21.80	21.80	23.80	21.80
HSPA+	Ant.0	22.80	22.80	22.80	22.80	20.80	20.80	22.80	20.80
LTE Band2	Ant.1	25.00	16.50	15.50	20.50	17.00	17.00	20.50	17.00
LTE Band2	Ant.0	25.00	25.00	25.00	22.00	20.00	20.00	22.00	20.00

LTE Band4	Ant.1	25.00	17.50	16.50	22.50	19.00	19.00	22.50	19.00
LTE Band4	Ant.0	25.00	25.00	25.00	21.00	17.50	17.50	21.00	17.50
LTE Band5	Ant.1	25.00	22.00	21.00	25.00	23.50	23.50	25.00	23.50
LTE Band5	Ant.0	25.00	25.00	25.00	25.00	23.50	23.50	25.00	23.50
LTE Band7	Ant.1	25.00	18.00	17.00	21.00	17.50	17.50	21.00	17.50
LTE Band7	Ant.0	25.00	25.00	25.00	22.50	20.50	20.50	22.50	20.50
LTE Band8	Ant.1	25.00	21.50	20.50	25.00	22.50	22.50	25.00	22.50
LTE Band8	Ant.0	25.00	25.00	25.00	25.00	22.50	22.50	25.00	22.50
LTE Band12	Ant.1	25.00	21.00	21.00	25.00	25.00	25.00	25.00	25.00
LTE Band12	Ant.0	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00
LTE Band13	Ant.1	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00
LTE Band13	Ant.0	25.00	25.00	25.00	25.00	23.50	23.50	25.00	23.50
LTE Band17	Ant.1	25.00	21.50	21.50	25.00	25.00	25.00	25.00	25.00
LTE Band17	Ant.0	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00
LTE Band18	Ant.1	25.00	22.00	21.00	25.00	24.00	24.00	25.00	24.00
LTE Band18	Ant.0	25.00	25.00	25.00	25.00	24.50	24.50	25.00	24.50
LTE Band19	Ant.1	25.00	23.50	22.50	25.00	25.00	25.00	25.00	25.00
LTE Band19	Ant.0	25.00	25.00	25.00	25.00	24.00	24.00	25.00	24.00
LTE Band26	Ant.1	25.00	21.50	20.50	25.00	23.50	23.50	25.00	23.50
LTE Band26	Ant.0	25.00	25.00	25.00	24.50	23.50	23.50	24.50	23.50
LTE Band28	Ant.1	25.00	22.50	22.50	25.00	25.00	25.00	25.00	25.00
LTE Band28	Ant.0	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00
LTE Band66	Ant.1	25.00	18.50	18.50	23.00	21.00	21.00	23.00	21.00
LTE Band66	Ant.0	25.00	25.00	25.00	21.50	21.50	21.50	21.50	21.50
LTE Band38	Ant.1	25.00	14.50	14.00	17.00	13.50	13.50	17.00	13.50
LTE Band38	Ant.0	25.00	25.00	25.00	24.50	22.00	22.00	24.50	22.00
LTE Band41	Ant.1	25.00	18.00	17.00	23.00	19.50	19.50	23.00	19.50
LTE Band41	Ant.0	25.00	25.00	25.00	21.50	18.00	18.00	21.50	18.00

WLAN Reduced power level table

Reduced level	Receiver state	Transmitting	Antenna	Position
		conditions		
Level 1	On (head scenario)	WiFi 2.4G/5G	Ant.3	Head
Level 2	On (head scenario)	WWAN+WiFi 2.4G/5G	Ant.3	Head
Level 3	Off (Body/Extremity scenario)	WiFi 2.4G/5G	Ant.3	Front Side;Back Side;Left Edge;Right Edge;Top Edge;Bottom Edge
Level 4	Off (Body/Hotspot/Extremity scenario)	WWAN+WiFi 2.4G/5G	Ant.3	Front Side;Back Side;Left Edge;Right Edge;Top Edge;Bottom Edge

WLAN Reduced power level table

Mode	WLAN Antenna					
	Full Power	Receiver on		Receiver off		
		Head		Body-Worn&Specific		Hotspot
		Standalone	Simultaneous transmission	Standalone	Simultaneous transmission	Simultaneous transmission
	Off	Level1	Level2	Level3	Level4	Level4
2.4G WLAN 802.11b	20.00	17.50	14.50	20.00	19.50	19.50
2.4G WLAN 802.11g	19.00	17.50	14.50	19.00	19.00	19.00
2.4G WLAN 802.11n20	19.00	17.50	14.50	19.00	19.00	19.00
2.4G WLAN 802.11n40	18.00	17.50	14.50	18.00	18.00	18.00
2.4G WLAN 802.11 VHT20	19.00	17.50	14.50	19.00	19.00	19.00
2.4G WLAN 802.11 VHT40	18.00	17.50	14.50	18.00	18.00	18.00
5.2G WLAN 802.11a	18.50	14.50	11.50	18.50	12.00	12.00
5.2G WLAN 802.11n20	18.50	14.50	11.50	18.50	12.00	12.00
5.2G WLAN 802.11n40	17.50	14.50	11.50	17.50	12.00	12.00
5.2G WLAN 802.11ac20	18.50	14.50	11.50	18.50	12.00	12.00
5.2G WLAN 802.11ac40	17.50	14.50	11.50	17.50	12.00	12.00
5.2G WLAN 802.11ac80	12.50	12.50	11.50	12.50	12.00	12.00
5.3G WLAN 802.11a	18.50	14.50	11.50	18.50	12.00	/
5.3G WLAN 802.11n20	18.50	14.50	11.50	18.50	12.00	/
5.3G WLAN 802.11n40	17.50	14.50	11.50	17.50	12.00	/
5.3G WLAN 802.11ac20	18.50	14.50	11.50	18.50	12.00	/
5.3G WLAN 802.11ac40	17.50	14.50	11.50	17.50	12.00	/
5.3G WLAN 802.11ac80	12.50	12.50	11.50	12.50	12.00	/
5.6G WLAN 802.11a	18.00	14.50	11.50	18.00	12.00	/
5.6G WLAN 802.11n20	18.50	14.50	11.50	18.50	12.00	/
5.6G WLAN 802.11n40	17.50	14.50	11.50	17.50	12.00	/
5.6G WLAN 802.11ac20	18.50	14.50	11.50	18.50	12.00	/
5.6G WLAN 802.11ac40	17.50	14.50	11.50	17.50	12.00	/
5.6G WLAN 802.11ac80	17.50	14.50	11.50	17.50	12.00	/
5.8G WLAN 802.11a	18.50	14.50	11.50	18.50	12.00	12.00
5.8G WLAN 802.11n20	18.50	14.50	11.50	18.50	12.00	12.00
5.8G WLAN 802.11n40	17.50	14.50	11.50	17.50	12.00	12.00
5.8G WLAN 802.11ac20	18.50	14.50	11.50	18.50	12.00	12.00
5.8G WLAN 802.11ac40	17.50	14.50	11.50	17.50	12.00	12.00
5.8G WLAN 802.11ac80	17.50	14.50	11.50	17.50	12.00	12.00
Bluetooth	13.00	13.00	13.00	13.00	13.00	13.00

9 TEST EXCLUSION CONSIDERATION

For antenna location and support bands please refer the document “BL-SZ2510972-AI EUT internal photo.pdf”.

Antenna	Description	Support Bands
Antenna 0	2/3/4G TX Antenna	GSM 850/900/1800 WCDMA Band 2/4/5/8 LTE Band 2/4/5/7/8/12/13/17/18/19/26/28/66/38/41
Antenna 1	2/3/4G TX Antenna	GSM 850/900/1800 WCDMA Band 2/4/5/8 LTE Band 2/4/5/7/8/12/13/17/18/19/26/28/66/38/41
Antenna 3	WLAN 2.4G TX Antenna WLAN 5G TX Antenna Bluetooth TX Antenna	2.4G WLAN 5G WLAN Bluetooth

10 TEST RESULT

10.1 GSM 850

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head													
Ant.1	State2	DATA 3slots	Left Cheek	0	190	836.6	-0.03	0.487	26.25	27.00	1.189	0.579	/
	State2		Left Tilt	0	190	836.6	0.06	0.373	26.25	27.00	1.189	0.443	/
	State2		Right Cheek	0	190	836.6	0.09	0.730	26.25	27.00	1.189	0.868	1#
	State2		Right Tilt	0	190	836.6	0.07	0.655	26.25	27.00	1.189	0.779	/
	State2		Right Cheek	0	128	824.2	-0.09	0.610	25.92	27.00	1.282	0.782	/
	State2		Right Cheek	0	251	848.8	-0.06	0.644	26.18	27.00	1.208	0.778	/
Ant.1	State4	DATA 3slots	Left Cheek	0	190	836.6	0.02	0.401	25.31	26.00	1.172	0.470	/
	State4		Left Tilt	0	190	836.6	-0.12	0.321	25.31	26.00	1.172	0.376	/
	State4		Right Cheek	0	190	836.6	0.02	0.621	25.31	26.00	1.172	0.728	/
	State4		Right Tilt	0	190	836.6	0.11	0.526	25.31	26.00	1.172	0.616	/
Ant.0	State2&4	DATA 3slots	Left Cheek	0	251	848.8	0.01	0.293	28.75	29.50	1.189	0.348	/
	State2&4		Left Tilt	0	251	848.8	-0.05	0.165	28.75	29.50	1.189	0.196	/
	State2&4		Right Cheek	0	251	848.8	0.06	0.219	28.75	29.50	1.189	0.260	/
	State2&4		Right Tilt	0	251	848.8	-0.13	0.127	28.75	29.50	1.189	0.151	/
Body-worn													
Ant.1	State1	DATA	Front Side	15	251	848.8	0.08	0.146	28.78	29.50	1.180	0.172	/
	State1	3slots	Back Side	15	251	848.8	-0.07	0.154	28.78	29.50	1.180	0.182	/
Ant.1	State3	DATA	Front Side	15	251	848.8	0.12	0.116	27.63	28.50	1.222	0.142	/
	State3	3slots	Back Side	15	251	848.8	-0.15	0.129	27.63	28.50	1.222	0.158	/
Ant.0	State1&3	DATA	Front Side	15	251	848.8	-0.14	0.103	28.75	29.50	1.189	0.122	/
	State1&3	3slots	Back Side	15	251	848.8	-0.01	0.176	28.75	29.50	1.189	0.209	2#
Hotspot													
Ant.1	State3	DATA 3slots	Front Side	10	251	848.8	-0.02	0.195	27.63	28.50	1.222	0.238	/
	State3		Back Side	10	251	848.8	-0.02	0.377	27.63	28.50	1.222	0.461	3#
	State3		Left Edge	10	251	848.8	-0.10	0.071	27.63	28.50	1.222	0.087	/
	State3		Right Edge	10	251	848.8	0.08	0.081	27.63	28.50	1.222	0.099	/
	State3		Top Edge	10	251	848.8	-0.08	0.261	27.63	28.50	1.222	0.319	/
Ant.0	State3	DATA 3slots	Front Side	10	251	848.8	0.03	0.201	28.75	29.50	1.189	0.239	/
	State3		Back Side	10	251	848.8	0.05	0.325	28.75	29.50	1.189	0.386	/
	State3		Left Edge	10	251	848.8	0.15	0.062	28.75	29.50	1.189	0.074	/
	State3		Right Edge	10	251	848.8	0.08	0.176	28.75	29.50	1.189	0.209	/
	State3		Bottom Edge	10	251	848.8	0.13	0.284	28.75	29.50	1.189	0.338	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

10.2 GSM 900

Antenna	Power Reduction	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	State2	DATA 3slots	Left Cheek	0	38	897.6	0.11	0.403	26.57	27.50	1.239	0.499	/
	State2		Left Tilt	0	38	897.6	-0.02	0.342	26.57	27.50	1.239	0.424	/
	State2		Right Cheek	0	38	897.6	-0.02	0.652	26.57	27.50	1.239	0.808	/
	State2		Right Tilt	0	38	897.6	0.05	0.534	26.57	27.50	1.239	0.662	/
	State2		Right Cheek	0	975	880.2	-0.01	0.726	26.15	27.50	1.365	0.991	4#
	State2		Right Cheek	0	124	914.8	0.07	0.456	26.52	27.50	1.253	0.571	/
Ant.1	State4	DATA 3slots	Left Cheek	0	38	897.6	0.14	0.335	25.95	26.50	1.135	0.380	/
	State4		Left Tilt	0	38	897.6	-0.05	0.302	25.95	26.50	1.135	0.343	/
	State4		Right Cheek	0	38	897.6	-0.07	0.655	25.95	26.50	1.135	0.743	/
	State4		Right Tilt	0	38	897.6	-0.07	0.436	25.95	26.50	1.135	0.495	/
Ant.0	State2&4	DATA 3slots	Left Cheek	0	38	897.6	0.07	0.105	29.31	29.50	1.045	0.110	/
	State2&4		Left Tilt	0	38	897.6	-0.05	0.047	29.31	29.50	1.045	0.049	/
	State2&4		Right Cheek	0	38	897.6	-0.10	0.073	29.31	29.50	1.045	0.076	/
	State2&4		Right Tilt	0	38	897.6	-0.12	0.029	29.31	29.50	1.045	0.030	/
Body-worn													
Ant.1	State1	DATA	Front Side	15	975	880.2	0.14	0.134	28.97	29.50	1.130	0.151	/
	State1	3slots	Back Side	15	975	880.2	0.00	0.202	28.97	29.50	1.130	0.228	5#
Ant.1	State3	DATA	Front Side	15	975	880.2	0.11	0.102	27.75	28.50	1.189	0.121	/
	State3	3slots	Back Side	15	975	880.2	0.05	0.158	27.75	28.50	1.189	0.188	/
Ant.0	State1&3	DATA	Front Side	15	38	897.6	0.05	0.058	29.31	29.50	1.045	0.061	/
	State1&3	3slots	Back Side	15	38	897.6	0.02	0.112	29.31	29.50	1.045	0.117	/
Hotspot													
Ant.1	State3	DATA 3slots	Front Side	10	975	880.2	0.16	0.148	27.75	28.50	1.189	0.176	/
	State3		Back Side	10	975	880.2	-0.02	0.255	27.75	28.50	1.189	0.303	6#
	State3		Left Edge	10	975	880.2	0.09	0.045	27.75	28.50	1.189	0.054	/
	State3		Right Edge	10	975	880.2	-0.12	0.127	27.75	28.50	1.189	0.151	/
	State3		Top Edge	10	975	880.2	0.04	0.205	27.75	28.50	1.189	0.244	/
Ant.0	State3	DATA 3slots	Front Side	10	38	897.6	0.04	0.102	29.31	29.50	1.045	0.107	/
	State3		Back Side	10	38	897.6	0.00	0.162	29.31	29.50	1.045	0.169	/
	State3		Left Edge	10	38	897.6	0.00	0.024	29.31	29.50	1.045	0.025	/
	State3		Right Edge	10	38	897.6	-0.08	0.039	29.31	29.50	1.045	0.041	/
	State3		Bottom Edge	10	38	897.6	-0.04	0.219	29.31	29.50	1.045	0.229	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

10.3GSM 1900

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head													
Ant.1	State2	DATA 3slots	Left Cheek	0	810	1909.8	-0.01	0.396	21.73	22.00	1.064	0.421	/
	State2		Left Tilt	0	810	1909.8	0.02	0.476	21.73	22.00	1.064	0.506	/
	State2		Right Cheek	0	810	1909.8	-0.12	0.674	21.73	22.00	1.064	0.717	/
	State2		Right Tilt	0	810	1909.8	-0.11	0.838	21.73	22.00	1.064	0.892	/
	State2		Right Tilt	0	512	1850.2	0.10	1.060	21.62	22.00	1.091	1.156	7#
	State2		Right Tilt	0	661	1880	-0.12	0.936	21.51	22.00	1.119	1.047	/
Ant.1	State4	DATA 3slots	Left Cheek	0	810	1909.8	-0.03	0.310	20.50	21.00	1.122	0.348	/
	State4		Left Tilt	0	810	1909.8	-0.02	0.365	20.50	21.00	1.122	0.410	/
	State4		Right Cheek	0	810	1909.8	-0.08	0.496	20.50	21.00	1.122	0.557	/
	State4		Right Tilt	0	810	1909.8	-0.07	0.714	20.50	21.00	1.122	0.801	/
	State4		Right Tilt	0	512	1850.2	-0.08	0.813	20.45	21.00	1.135	0.923	/
	State4		Right Tilt	0	661	1880	-0.12	0.743	20.31	21.00	1.172	0.871	/
Ant.0	State2&4	DATA 3slots	Left Cheek	0	512	1850.2	-0.02	0.086	25.91	26.50	1.146	0.099	/
	State2&4		Left Tilt	0	512	1850.2	-0.04	0.047	25.91	26.50	1.146	0.054	/
	State2&4		Right Cheek	0	512	1850.2	0.13	0.072	25.91	26.50	1.146	0.083	/
	State2&4		Right Tilt	0	512	1850.2	-0.15	0.045	25.91	26.50	1.146	0.052	/
Body-worn													
Ant.1	State1	DATA	Front Side	15	512	1850.2	0.06	0.296	25.72	26.50	1.197	0.354	/
	State1	3slots	Back Side	15	512	1850.2	-0.16	0.444	25.72	26.50	1.197	0.531	8#
Ant.1	State3	DATA	Front Side	15	512	1850.2	0.08	0.152	23.04	23.50	1.112	0.169	/
	State3	3slots	Back Side	15	512	1850.2	0.08	0.202	23.04	23.50	1.112	0.225	/
Ant.0	State1	DATA	Front Side	15	512	1850.2	0.06	0.152	25.91	26.50	1.146	0.174	/
	State1	3slots	Back Side	15	512	1850.2	0.02	0.271	25.91	26.50	1.146	0.311	/
Ant.0	State3	DATA	Front Side	15	512	1850.2	-0.12	0.125	24.95	25.50	1.135	0.142	/
	State3	3slots	Back Side	15	512	1850.2	0.08	0.231	24.95	25.50	1.135	0.262	/
Hotspot													
Ant.1	State3	DATA 3slots	Front Side	10	810	1909.8	-0.04	0.212	23.04	23.50	1.112	0.236	/
	State3		Back Side	10	810	1909.8	-0.07	0.295	23.04	23.50	1.112	0.328	/
	State3		Left Edge	10	810	1909.8	0.06	0.012	23.04	23.50	1.112	0.013	/
	State3		Right Edge	10	810	1909.8	0.10	0.057	23.04	23.50	1.112	0.063	/
	State3		Top Edge	10	810	1909.8	-0.05	0.377	23.04	23.50	1.112	0.419	/
Ant.0	State3	DATA 3slots	Front Side	10	512	1850.2	0.16	0.122	24.95	25.50	1.135	0.138	/
	State3		Back Side	10	512	1850.2	0.14	0.209	24.95	25.50	1.135	0.237	/
	State3		Left Edge	10	512	1850.2	0.15	0.066	24.95	25.50	1.135	0.075	/
	State3		Right Edge	10	512	1850.2	0.03	0.028	24.95	25.50	1.135	0.032	/
	State3		Bottom Edge	10	512	1850.2	-0.01	0.410	24.95	25.50	1.135	0.465	9#

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

10.4WCDMA Band 2

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head													
Ant.1	State2&4	RMC	Left Cheek	0	9262	1852.4	-0.01	0.338	16.13	16.50	1.089	0.368	/
	State2&4		Left Tilt	0	9262	1852.4	0.10	0.402	16.13	16.50	1.089	0.438	/
	State2&4		Right Cheek	0	9262	1852.4	-0.01	0.562	16.13	16.50	1.089	0.612	/
	State2&4		Right Tilt	0	9262	1852.4	0.01	0.693	16.13	16.50	1.089	0.755	10#
Ant.0	State2&4	RMC	Left Cheek	0	9538	1907.6	-0.03	0.141	23.70	25.00	1.349	0.190	/
	State2&4		Left Tilt	0	9538	1907.6	0.15	0.079	23.70	25.00	1.349	0.107	/
	State2&4		Right Cheek	0	9538	1907.6	0.00	0.104	23.70	25.00	1.349	0.140	/
	State2&4		Right Tilt	0	9538	1907.6	0.16	0.068	23.70	25.00	1.349	0.092	/
Body-worn													
Ant.1	State1	RMC	Front Side	15	9262	1852.4	0.16	0.285	21.06	21.50	1.107	0.315	/
	State1		Back Side	15	9262	1852.4	-0.06	0.402	21.06	21.50	1.107	0.445	11#
Ant.1	State3	RMC	Front Side	15	9262	1852.4	0.16	0.102	17.73	18.00	1.064	0.109	/
	State3		Back Side	15	9262	1852.4	0.03	0.130	17.73	18.00	1.064	0.138	/
Ant.0	State1	RMC	Front Side	15	9262	1852.4	-0.08	0.134	22.29	22.50	1.050	0.141	/
	State1		Back Side	15	9262	1852.4	0.13	0.213	22.29	22.50	1.050	0.224	/
Ant.0	State3	RMC	Front Side	15	9262	1852.4	-0.08	0.102	20.46	20.50	1.009	0.103	/
	State3		Back Side	15	9262	1852.4	0.08	0.134	20.46	20.50	1.009	0.135	/
Hotspot													
Ant.1	State3	RMC	Front Side	10	9262	1852.4	0.05	0.217	17.73	18.00	1.064	0.231	/
	State3		Back Side	10	9262	1852.4	-0.06	0.301	17.73	18.00	1.064	0.320	/
	State3		Left Edge	10	9262	1852.4	0.10	0.016	17.73	18.00	1.064	0.017	/
	State3		Right Edge	10	9262	1852.4	-0.15	0.050	17.73	18.00	1.064	0.053	/
	State3		Top Edge	10	9262	1852.4	0.00	0.323	17.73	18.00	1.064	0.344	/
Ant.0	State3	RMC	Front Side	10	9262	1852.4	0.11	0.125	20.46	20.50	1.009	0.126	/
	State3		Back Side	10	9262	1852.4	-0.08	0.214	20.46	20.50	1.009	0.216	/
	State3		Left Edge	10	9262	1852.4	0.13	0.063	20.46	20.50	1.009	0.064	/
	State3		Right Edge	10	9262	1852.4	-0.05	0.021	20.46	20.50	1.009	0.021	/
	State3		Bottom Edge	10	9262	1852.4	0.02	0.353	20.46	20.50	1.009	0.356	12#

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

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
Specific													
Ant.1	State1	RMC	Back Side	0	9262	1852.4	-0.17	1.500	21.06	21.50	1.107	1.661	13#
	State1		Top Edge	0	9262	1852.4	-0.15	0.969	21.06	21.50	1.107	1.073	/
Ant.1	State3	RMC	Back Side	0	9262	1852.4	-0.13	0.603	17.73	18.00	1.064	0.642	/
	State3		Top Edge	0	9262	1852.4	0.14	0.433	17.73	18.00	1.064	0.461	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

10.5WCDMA Band 4

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head													
Ant.1	State2	RMC	Left Cheek	0	1513	1752.6	-0.10	0.302	17.26	17.50	1.057	0.319	/
	State2		Left Tilt	0	1513	1752.6	0.01	0.325	17.26	17.50	1.057	0.344	/
	State2		Right Cheek	0	1513	1752.6	-0.06	0.622	17.26	17.50	1.057	0.657	14#
	State2		Right Tilt	0	1513	1752.6	0.10	0.512	17.26	17.50	1.057	0.541	/
Ant.1	State4	RMC	Left Cheek	0	1312	1712.4	-0.12	0.230	16.21	16.50	1.069	0.246	/
	State4		Left Tilt	0	1312	1712.4	-0.02	0.256	16.21	16.50	1.069	0.274	/
	State4		Right Cheek	0	1312	1712.4	0.05	0.485	16.21	16.50	1.069	0.518	/
	State4		Right Tilt	0	1312	1712.4	0.15	0.412	16.21	16.50	1.069	0.440	/
Ant.0	State2&4	RMC	Left Cheek	0	1312	1712.4	0.07	0.162	24.36	25.00	1.159	0.188	/
	State2&4		Left Tilt	0	1312	1712.4	0.06	0.076	24.36	25.00	1.159	0.088	/
	State2&4		Right Cheek	0	1312	1712.4	-0.10	0.097	24.36	25.00	1.159	0.112	/
	State2&4		Right Tilt	0	1312	1712.4	0.03	0.081	24.36	25.00	1.159	0.094	/
Body-worn													
Ant.1	State1	RMC	Front Side	15	1513	1752.6	0.14	0.166	22.23	22.50	1.064	0.177	/
	State1		Back Side	15	1513	1752.6	0.07	0.260	22.23	22.50	1.064	0.277	15#
Ant.1	State3	RMC	Front Side	15	1513	1752.6	0.14	0.074	18.86	19.00	1.033	0.076	/
	State3		Back Side	15	1513	1752.6	0.15	0.096	18.86	19.00	1.033	0.099	/
Ant.0	State1	RMC	Front Side	15	1513	1752.6	0.05	0.104	20.44	21.00	1.138	0.118	/
	State1		Back Side	15	1513	1752.6	-0.05	0.240	20.44	21.00	1.138	0.273	/
Ant.0	State3	RMC	Front Side	15	1513	1752.6	-0.06	0.046	17.27	17.50	1.054	0.048	/
	State3		Back Side	15	1513	1752.6	-0.11	0.107	17.27	17.50	1.054	0.113	/
Hotspot													
Ant.1	State3	RMC	Front Side	10	1513	1752.6	-0.12	0.159	18.86	19.00	1.033	0.164	/
	State3		Back Side	10	1513	1752.6	-0.09	0.213	18.86	19.00	1.033	0.220	/
	State3		Left Edge	10	1513	1752.6	0.00	0.016	18.86	19.00	1.033	0.017	/
	State3		Right Edge	10	1513	1752.6	0.11	0.046	18.86	19.00	1.033	0.048	/
	State3		Top Edge	10	1513	1752.6	0.12	0.286	18.86	19.00	1.033	0.295	/
Ant.0	State3	RMC	Front Side	10	1513	1752.6	0.04	0.088	17.27	17.50	1.054	0.093	/
	State3		Back Side	10	1513	1752.6	-0.08	0.145	17.27	17.50	1.054	0.153	/
	State3		Left Edge	10	1513	1752.6	-0.09	0.030	17.27	17.50	1.054	0.032	/
	State3		Right Edge	10	1513	1752.6	-0.15	0.022	17.27	17.50	1.054	0.023	/
	State3		Bottom Edge	10	1513	1752.6	-0.02	0.309	17.27	17.50	1.054	0.326	16#
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
Specific													
Ant.0	State1	RMC	Bottom Edge	0	1513	1752.6	0.04	1.520	20.44	21.00	1.138	1.730	17#
Ant.0	State3	RMC	Bottom Edge	0	1513	1752.6	0.03	0.768	17.27	17.50	1.054	0.809	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

10.6WCDMA Band 5

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head													
Ant.1	State2	RMC	Left Cheek	0	4132	826.4	0.05	0.349	21.45	22.00	1.135	0.396	/
	State2		Left Tilt	0	4132	826.4	0.13	0.325	21.45	22.00	1.135	0.369	/
	State2		Right Cheek	0	4132	826.4	0.02	0.719	21.45	22.00	1.135	0.816	18#
	State2		Right Tilt	0	4132	826.4	0.08	0.501	21.45	22.00	1.135	0.569	/
	State2		Right Cheek	0	4182	836.4	-0.04	0.568	21.31	22.00	1.172	0.666	/
	State2		Right Cheek	0	4233	846.6	-0.09	0.601	21.14	22.00	1.219	0.733	/
Ant.1	State4	RMC	Left Cheek	0	4132	826.4	-0.12	0.277	20.62	21.00	1.091	0.302	/
	State4		Left Tilt	0	4132	826.4	-0.15	0.258	20.62	21.00	1.091	0.281	/
	State4		Right Cheek	0	4132	826.4	0.08	0.564	20.62	21.00	1.091	0.615	/
	State4		Right Tilt	0	4132	826.4	-0.06	0.398	20.62	21.00	1.091	0.434	/
Ant.0	State2&4	RMC	Left Cheek	0	4132	826.4	0.02	0.205	24.82	25.00	1.042	0.214	/
	State2&4		Left Tilt	0	4132	826.4	-0.02	0.108	24.82	25.00	1.042	0.113	/
	State2&4		Right Cheek	0	4132	826.4	-0.08	0.169	24.82	25.00	1.042	0.176	/
	State2&4		Right Tilt	0	4132	826.4	0.12	0.086	24.82	25.00	1.042	0.090	/
Body-worn													
Ant.1	State1	RMC	Front Side	15	4132	826.4	-0.12	0.160	24.05	25.00	1.245	0.199	/
	State1		Back Side	15	4132	826.4	-0.06	0.206	24.05	25.00	1.245	0.256	19#
Ant.1	State3	RMC	Front Side	15	4182	836.4	-0.05	0.127	23.54	24.00	1.112	0.141	/
	State3		Back Side	15	4182	836.4	-0.13	0.150	23.54	24.00	1.112	0.167	/
Ant.0	State1	RMC	Front Side	15	4132	826.4	-0.08	0.147	24.45	24.50	1.012	0.149	/
	State1		Back Side	15	4132	826.4	-0.03	0.169	24.45	24.50	1.012	0.171	/
Ant.0	State3	RMC	Front Side	15	4182	836.4	-0.07	0.093	22.21	22.50	1.069	0.099	/
	State3		Back Side	15	4182	836.4	0.03	0.107	22.21	22.50	1.069	0.114	/
Hotspot													
Ant.1	State3	RMC	Front Side	10	4182	836.4	0.04	0.218	23.54	24.00	1.112	0.242	/
	State3		Back Side	10	4182	836.4	-0.05	0.308	23.54	24.00	1.112	0.342	20#
	State3		Left Edge	10	4182	836.4	0.00	0.102	23.54	24.00	1.112	0.113	/
	State3		Right Edge	10	4182	836.4	0.15	0.086	23.54	24.00	1.112	0.096	/
	State3		Top Edge	10	4182	836.4	0.09	0.220	23.54	24.00	1.112	0.245	/
Ant.0	State3	RMC	Front Side	10	4182	836.4	0.00	0.106	22.21	22.50	1.069	0.113	/
	State3		Back Side	10	4182	836.4	-0.01	0.188	22.21	22.50	1.069	0.201	/
	State3		Left Edge	10	4182	836.4	0.09	0.049	22.21	22.50	1.069	0.052	/
	State3		Right Edge	10	4182	836.4	-0.02	0.080	22.21	22.50	1.069	0.086	/
	State3		Bottom Edge	10	4182	836.4	-0.10	0.147	22.21	22.50	1.069	0.157	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

10.7WCDMA Band 8

Antenna	Power Reduction	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	State2	RMC	Left Cheek	0	2712	882.4	-0.10	0.314	20.82	21.00	1.042	0.327	/
	State2		Left Tilt	0	2712	882.4	-0.13	0.293	20.82	21.00	1.042	0.305	/
	State2		Right Cheek	0	2712	882.4	-0.02	0.676	20.82	21.00	1.042	0.704	21#
	State2		Right Tilt	0	2712	882.4	0.06	0.307	20.82	21.00	1.042	0.320	/
Ant.1	State4	RMC	Left Cheek	0	2712	882.4	0.11	0.248	19.75	20.00	1.059	0.263	/
	State4		Left Tilt	0	2712	882.4	0.15	0.232	19.75	20.00	1.059	0.246	/
	State4		Right Cheek	0	2712	882.4	0.13	0.536	19.75	20.00	1.059	0.568	/
	State4		Right Tilt	0	2712	882.4	0.04	0.265	19.75	20.00	1.059	0.281	/
Ant.0	State2&4	RMC	Left Cheek	0	2712	882.4	0.01	0.213	24.82	25.00	1.042	0.222	/
	State2&4		Left Tilt	0	2712	882.4	-0.05	0.089	24.82	25.00	1.042	0.093	/
	State2&4		Right Cheek	0	2712	882.4	-0.08	0.158	24.82	25.00	1.042	0.165	/
	State2&4		Right Tilt	0	2712	882.4	-0.11	0.056	24.82	25.00	1.042	0.058	/
Body-worn													
Ant.1	State1	RMC	Front Side	15	2712	882.4	-0.06	0.164	24.40	25.00	1.148	0.188	/
	State1		Back Side	15	2712	882.4	-0.03	0.209	24.40	25.00	1.148	0.240	22#
Ant.1	State3	RMC	Front Side	15	2712	882.4	0.04	0.105	22.76	23.00	1.057	0.111	/
	State3		Back Side	15	2712	882.4	-0.05	0.136	22.76	23.00	1.057	0.144	/
Ant.0	State1	RMC	Front Side	15	2712	882.4	0.09	0.121	24.82	25.00	1.042	0.126	/
	State1		Back Side	15	2712	882.4	-0.03	0.195	24.82	25.00	1.042	0.203	/
Ant.0	State3	RMC	Front Side	15	2712	882.4	0.09	0.089	22.86	23.00	1.033	0.092	/
	State3		Back Side	15	2712	882.4	-0.01	0.134	22.86	23.00	1.033	0.138	/
Hotspot													
Ant.1	State3	RMC	Front Side	10	2712	882.4	0.01	0.417	22.76	23.00	1.057	0.441	/
	State3		Back Side	10	2712	882.4	-0.02	0.529	22.76	23.00	1.057	0.559	23#
	State3		Left Edge	10	2712	882.4	-0.06	0.168	22.76	23.00	1.057	0.178	/
	State3		Right Edge	10	2712	882.4	0.03	0.126	22.76	23.00	1.057	0.133	/
	State3		Top Edge	10	2712	882.4	0.02	0.305	22.76	23.00	1.057	0.322	/
Ant.0	State3	RMC	Front Side	10	2712	882.4	-0.09	0.102	22.86	23.00	1.033	0.105	/
	State3		Back Side	10	2712	882.4	0.03	0.177	22.86	23.00	1.033	0.183	/
	State3		Left Edge	10	2712	882.4	0.09	0.000	22.86	23.00	1.033	0.000	/
	State3		Right Edge	10	2712	882.4	-0.08	0.056	22.86	23.00	1.033	0.058	/
	State3		Bottom Edge	10	2712	882.4	-0.06	0.317	22.86	23.00	1.033	0.327	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

10.8LTE Band 2 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.1	State2	QPSK	Left Cheek	0	18900	1880	1	Mid	0.03	0.264	16.32	16.50	1.042	0.275	/
	State2		Left Tilt	0	18900	1880	1	Mid	0.01	0.278	16.32	16.50	1.042	0.290	/
	State2		Right Cheek	0	18900	1880	1	Mid	-0.03	0.452	16.32	16.50	1.042	0.471	/
	State2		Right Tilt	0	18900	1880	1	Mid	0.00	0.500	16.32	16.50	1.042	0.521	24#
	State2		Left Cheek	0	18900	1880	50	Mid	-0.07	0.234	16.22	16.50	1.067	0.250	/
	State2		Left Tilt	0	18900	1880	50	Mid	0.13	0.258	16.22	16.50	1.067	0.275	/
	State2		Right Cheek	0	18900	1880	50	Mid	0.12	0.432	16.22	16.50	1.067	0.461	/
	State2		Right Tilt	0	18900	1880	50	Mid	-0.07	0.468	16.22	16.50	1.067	0.499	/
Ant.1	State4	QPSK	Left Cheek	0	18900	1880	1	High	0.12	0.209	15.38	15.50	1.028	0.215	/
	State4		Left Tilt	0	18900	1880	1	High	0.16	0.220	15.38	15.50	1.028	0.226	/
	State4		Right Cheek	0	18900	1880	1	High	-0.06	0.354	15.38	15.50	1.028	0.364	/
	State4		Right Tilt	0	18900	1880	1	High	0.10	0.395	15.38	15.50	1.028	0.406	/
	State4		Left Cheek	0	18900	1880	50	Mid	-0.05	0.168	15.36	15.50	1.033	0.174	/
	State4		Left Tilt	0	18900	1880	50	Mid	0.14	0.206	15.36	15.50	1.033	0.213	/
	State4		Right Cheek	0	18900	1880	50	Mid	0.16	0.312	15.36	15.50	1.033	0.322	/
	State4		Right Tilt	0	18900	1880	50	Mid	-0.11	0.352	15.36	15.50	1.033	0.364	/
Ant.0	State2&4	QPSK	Left Cheek	0	19100	1900	1	Mid	0.04	0.126	24.24	25.00	1.191	0.150	/
	State2&4		Left Tilt	0	19100	1900	1	Mid	-0.06	0.074	23.87	25.00	1.297	0.096	/
	State2&4		Right Cheek	0	19100	1900	1	Mid	-0.01	0.102	23.87	25.00	1.297	0.132	/
	State2&4		Right Tilt	0	19100	1900	1	Mid	0.04	0.066	23.87	25.00	1.297	0.086	/
	State2&4		Left Cheek	0	19100	1900	50	High	-0.03	0.103	23.23	24.00	1.194	0.123	/
	State2&4		Left Tilt	0	19100	1900	50	High	-0.02	0.057	23.23	24.00	1.194	0.068	/
	State2&4		Right Cheek	0	19100	1900	50	High	0.05	0.079	23.23	24.00	1.194	0.094	/
	State2&4		Right Tilt	0	19100	1900	50	High	0.06	0.055	23.23	24.00	1.194	0.066	/
Body-worn															
Ant.1	State1	QPSK	Front Side	15	18900	1880	1	Mid	0.16	0.165	20.45	20.50	1.012	0.167	/
	State1		Back Side	15	18900	1880	1	Mid	0.00	0.269	20.45	20.50	1.012	0.272	25#
	State1		Front Side	15	18900	1880	50	Mid	-0.10	0.158	20.23	20.50	1.064	0.168	/
	State1		Back Side	15	18900	1880	50	Mid	0.05	0.254	20.23	20.50	1.064	0.270	/
Ant.1	State3	QPSK	Front Side	15	18900	1880	1	High	0.15	0.073	16.82	17.00	1.042	0.076	/
	State3		Back Side	15	18900	1880	1	High	0.09	0.120	16.82	17.00	1.042	0.125	/
	State3		Front Side	15	18900	1880	50	Mid	-0.14	0.068	16.85	17.00	1.035	0.070	/
	State3		Back Side	15	18900	1880	50	Mid	-0.05	0.113	16.85	17.00	1.035	0.117	/
Ant.0	State1	QPSK	Front Side	15	18900	1880	1	High	-0.14	0.094	21.40	22.00	1.148	0.108	/
	State1		Back Side	15	18900	1880	1	High	0.14	0.149	21.40	22.00	1.148	0.171	/
	State1		Front Side	15	19100	1900	50	High	-0.04	0.093	21.43	22.00	1.140	0.106	/

	State1		Back Side	15	19100	1900	50	High	-0.07	0.150	21.43	22.00	1.140	0.171	/
Ant.0	State3	QPSK	Front Side	15	18900	1880	1	High	0.09	0.059	19.70	20.00	1.072	0.063	/
	State3		Back Side	15	18900	1880	1	High	0.09	0.094	19.70	20.00	1.072	0.101	/
	State3		Front Side	15	19100	1900	50	Low	0.06	0.059	19.66	20.00	1.081	0.064	/
	State3		Back Side	15	19100	1900	50	Low	0.12	0.095	19.66	20.00	1.081	0.103	/
	State3		Back Side	15	19100	1900	50	Low	0.12	0.095	19.66	20.00	1.081	0.103	/
Hotspot															
Ant.1	State3	QPSK	Front Side	10	18900	1880	1	High	0.02	0.174	16.82	17.00	1.042	0.181	/
	State3		Back Side	10	18900	1880	1	High	0.12	0.263	16.82	17.00	1.042	0.274	/
	State3		Left Edge	10	18900	1880	1	High	0.15	0.011	16.82	17.00	1.042	0.011	/
	State3		Right Edge	10	18900	1880	1	High	-0.03	0.042	16.82	17.00	1.042	0.044	/
	State3		Top Edge	10	18900	1880	1	High	-0.14	0.244	16.82	17.00	1.042	0.254	/
	State3		Front Side	10	18900	1880	50	Mid	-0.11	0.181	16.85	17.00	1.035	0.187	/
	State3		Back Side	10	18900	1880	50	Mid	0.16	0.269	16.85	17.00	1.035	0.278	/
	State3		Left Edge	10	18900	1880	50	Mid	-0.06	0.012	16.85	17.00	1.035	0.012	/
	State3		Right Edge	10	18900	1880	50	Mid	-0.13	0.044	16.85	17.00	1.035	0.046	/
	State3		Top Edge	10	18900	1880	50	Mid	-0.14	0.245	16.85	17.00	1.035	0.254	/
Ant.0	State3	QPSK	Front Side	10	18900	1880	1	High	0.16	0.084	19.70	20.00	1.072	0.090	/
	State3		Back Side	10	18900	1880	1	High	0.04	0.148	19.70	20.00	1.072	0.159	/
	State3		Left Edge	10	18900	1880	1	High	-0.01	0.049	19.70	20.00	1.072	0.053	/
	State3		Right Edge	10	18900	1880	1	High	-0.12	0.021	19.70	20.00	1.072	0.023	/
	State3		Bottom Edge	10	18900	1880	1	High	0.14	0.276	19.70	20.00	1.072	0.296	26#
	State3		Front Side	10	19100	1900	50	Low	0.13	0.085	19.66	20.00	1.081	0.092	/
	State3		Back Side	10	19100	1900	50	Low	0.09	0.148	19.66	20.00	1.081	0.160	/
	State3		Left Edge	10	19100	1900	50	Low	-0.03	0.049	19.66	20.00	1.081	0.053	/
	State3		Right Edge	10	19100	1900	50	Low	-0.03	0.018	19.66	20.00	1.081	0.019	/
	State3		Bottom Edge	10	19100	1900	50	Low	0.06	0.237	19.66	20.00	1.081	0.256	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
Specific															
Ant.1	State1	QPSK	Back Side	0	18900	1880	1	Mid	-0.15	1.020	20.45	20.50	1.012	1.032	27#
	State1		Top Edge	0	18900	1880	1	Mid	0.15	0.795	20.45	20.50	1.012	0.805	/
	State1		Back Side	0	18900	1880	50	Mid	0.05	0.956	20.23	20.50	1.064	1.017	/
	State1		Top Edge	0	18900	1880	50	Mid	0.11	0.768	20.23	20.50	1.064	0.817	/
Ant.1	State3	QPSK	Back Side	0	18900	1880	1	High	-0.11	0.460	16.82	17.00	1.042	0.479	/
	State3		Top Edge	0	18900	1880	1	High	0.15	0.355	16.82	17.00	1.042	0.370	/
	State3		Back Side	0	18900	1880	50	Mid	-0.12	0.465	16.85	17.00	1.035	0.481	/
	State3		Top Edge	0	18900	1880	50	Mid	-0.15	0.343	16.85	17.00	1.035	0.355	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.9LTE Band 4 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.1	State2	QPSK	Left Cheek	0	20175	1732.5	1	Mid	0.07	0.209	17.16	17.50	1.081	0.226	/
	State2		Left Tilt	0	20175	1732.5	1	Mid	0.01	0.269	17.16	17.50	1.081	0.291	/
	State2		Right Cheek	0	20175	1732.5	1	Mid	-0.04	0.413	17.16	17.50	1.081	0.446	/
	State2		Right Tilt	0	20175	1732.5	1	Mid	-0.12	0.422	17.16	17.50	1.081	0.456	28#
	State2		Left Cheek	0	20175	1732.5	50	Low	0.14	0.205	17.10	17.50	1.096	0.225	/
	State2		Left Tilt	0	20175	1732.5	50	Low	0.08	0.258	17.10	17.50	1.096	0.283	/
	State2		Right Cheek	0	20175	1732.5	50	Low	-0.06	0.401	17.10	17.50	1.096	0.439	/
	State2		Right Tilt	0	20175	1732.5	50	Low	0.05	0.412	17.10	17.50	1.096	0.452	/
Ant.1	State4	QPSK	Left Cheek	0	20175	1732.5	1	Mid	0.07	0.169	16.24	16.50	1.062	0.179	/
	State4		Left Tilt	0	20175	1732.5	1	Mid	0.06	0.213	16.24	16.50	1.062	0.226	/
	State4		Right Cheek	0	20175	1732.5	1	Mid	-0.09	0.328	16.24	16.50	1.062	0.348	/
	State4		Right Tilt	0	20175	1732.5	1	Mid	0.03	0.335	16.24	16.50	1.062	0.356	/
	State4		Left Cheek	0	20175	1732.5	50	Low	0.06	0.152	16.30	16.50	1.047	0.159	/
	State4		Left Tilt	0	20175	1732.5	50	Low	0.02	0.189	16.30	16.50	1.047	0.198	/
	State4		Right Cheek	0	20175	1732.5	50	Low	0.03	0.312	16.30	16.50	1.047	0.327	/
	State4		Right Tilt	0	20175	1732.5	50	Low	0.13	0.325	16.30	16.50	1.047	0.340	/
Ant.0	State2&4	QPSK	Left Cheek	0	20050	1720	1	Mid	-0.03	0.123	24.08	25.00	1.236	0.152	/
	State2&4		Left Tilt	0	20050	1720	1	Mid	0.03	0.076	24.08	25.00	1.236	0.094	/
	State2&4		Right Cheek	0	20050	1720	1	Mid	-0.12	0.102	24.08	25.00	1.236	0.126	/
	State2&4		Right Tilt	0	20050	1720	1	Mid	0.10	0.081	24.08	25.00	1.236	0.100	/
	State2&4		Left Cheek	0	20050	1720	50	Low	-0.15	0.096	23.25	24.00	1.189	0.114	/
	State2&4		Left Tilt	0	20050	1720	50	Low	0.00	0.060	23.25	24.00	1.189	0.071	/
	State2&4		Right Cheek	0	20050	1720	50	Low	-0.14	0.081	23.25	24.00	1.189	0.096	/
	State2&4		Right Tilt	0	20050	1720	50	Low	-0.14	0.062	23.25	24.00	1.189	0.074	/
Body-worn															
Ant.1	State1	QPSK	Front Side	15	20175	1732.5	1	Mid	-0.08	0.212	22.25	22.50	1.059	0.225	/
	State1		Back Side	15	20175	1732.5	1	Mid	-0.07	0.265	22.25	22.50	1.059	0.281	29#
	State1		Front Side	15	20175	1732.5	50	Low	-0.09	0.198	22.23	22.50	1.064	0.211	/
	State1		Back Side	15	20175	1732.5	50	Low	0.02	0.243	22.23	22.50	1.064	0.259	/
Ant.1	State3	QPSK	Front Side	15	20175	1732.5	1	Mid	-0.02	0.075	18.90	19.00	1.023	0.077	/
	State3		Back Side	15	20175	1732.5	1	Mid	-0.13	0.094	18.90	19.00	1.023	0.096	/
	State3		Front Side	15	20175	1732.5	50	Low	-0.11	0.070	18.76	19.00	1.057	0.074	/
	State3		Back Side	15	20175	1732.5	50	Low	-0.12	0.091	18.76	19.00	1.057	0.096	/
Ant.0	State1	QPSK	Front Side	15	20300	1745	1	Low	-0.12	0.108	20.23	21.00	1.194	0.129	/
	State1		Back Side	15	20300	1745	1	Low	-0.04	0.160	20.23	21.00	1.194	0.191	/
	State1		Front Side	15	20050	1720	50	Low	-0.03	0.117	20.41	21.00	1.146	0.134	/

	State1		Back Side	15	20050	1720	50	Low	0.00	0.171	20.41	21.00	1.146	0.196	/
Ant.0	State3	QPSK	Front Side	15	20300	1745	1	Mid	0.06	0.048	16.97	17.50	1.130	0.054	/
	State3		Back Side	15	20300	1745	1	Mid	-0.15	0.072	16.97	17.50	1.130	0.081	/
	State3		Front Side	15	20050	1720	50	High	-0.08	0.052	17.06	17.50	1.107	0.058	/
	State3														
	State3		Back Side	15	20050	1720	50	High	-0.02	0.076	17.06	17.50	1.107	0.084	/
Hotspot															
Ant.1	State3	QPSK	Front Side	10	20175	1732.5	1	Mid	-0.07	0.199	18.90	19.00	1.023	0.204	/
	State3		Back Side	10	20175	1732.5	1	Mid	0.09	0.240	18.90	19.00	1.023	0.246	/
	State3		Left Edge	10	20175	1732.5	1	Mid	-0.14	0.019	18.90	19.00	1.023	0.019	/
	State3		Right Edge	10	20175	1732.5	1	Mid	0.13	0.053	18.90	19.00	1.023	0.054	/
	State3		Top Edge	10	20175	1732.5	1	Mid	-0.12	0.232	18.90	19.00	1.023	0.237	/
	State3		Front Side	10	20175	1732.5	50	Low	0.01	0.206	18.76	19.00	1.057	0.218	/
	State3		Back Side	10	20175	1732.5	50	Low	-0.05	0.260	18.76	19.00	1.057	0.275	/
	State3		Left Edge	10	20175	1732.5	50	Low	-0.03	0.019	18.76	19.00	1.057	0.020	/
	State3		Right Edge	10	20175	1732.5	50	Low	0.07	0.055	18.76	19.00	1.057	0.058	/
	State3		Top Edge	10	20175	1732.5	50	Low	0.07	0.237	18.76	19.00	1.057	0.251	/
	Ant.0		State3	QPSK	Front Side	10	20300	1745	1	Mid	-0.03	0.116	16.97	17.50	1.130
State3		Back Side	10		20300	1745	1	Mid	0.16	0.177	16.97	17.50	1.130	0.200	/
State3		Left Edge	10		20300	1745	1	Mid	0.12	0.044	16.97	17.50	1.130	0.050	/
State3		Right Edge	10		20300	1745	1	Mid	0.15	0.027	16.97	17.50	1.130	0.031	/
State3		Bottom Edge	10		20300	1745	1	Mid	-0.14	0.307	16.97	17.50	1.130	0.347	30#
State3		Front Side	10		20050	1720	50	High	-0.14	0.101	17.06	17.50	1.107	0.112	/
State3		Back Side	10		20050	1720	50	High	-0.03	0.160	17.06	17.50	1.107	0.177	/
State3		Left Edge	10		20050	1720	50	High	-0.05	0.041	17.06	17.50	1.107	0.045	/
State3		Right Edge	10		20050	1720	50	High	0.04	0.025	17.06	17.50	1.107	0.028	/
State3		Bottom Edge	10		20050	1720	50	High	0.00	0.271	17.06	17.50	1.107	0.300	/

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

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
Specific															
Ant.0	State1	QPSK	Bottom Edge	0	20050	1720	1	Low	-0.02	1.540	20.23	21.00	1.194	1.839	31#
	State1		Bottom Edge	0	20300	1745	50	Low	0.06	1.480	20.41	21.00	1.146	1.696	/
Ant.0	State3	QPSK	Bottom Edge	0	20050	1720	1	Mid	0.03	0.689	16.97	17.50	1.130	0.779	/
	State3		Bottom Edge	0	20300	1745	50	High	-0.14	0.643	17.06	17.50	1.107	0.712	/

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

10.10 LTE Band 5 (10MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.1	State2	QPSK	Left Cheek	0	20450	829	1	Mid	-0.11	0.400	21.61	22.00	1.094	0.438	/
	State2		Left Tilt	0	20450	829	1	Mid	-0.03	0.372	21.61	22.00	1.094	0.407	/
	State2		Right Cheek	0	20450	829	1	Mid	-0.01	0.729	21.61	22.00	1.094	0.798	32#
	State2		Right Tilt	0	20450	829	1	Mid	-0.07	0.552	21.61	22.00	1.094	0.604	/
	State2		Left Cheek	0	20450	829	25	Low	-0.11	0.393	21.63	22.00	1.089	0.428	/
	State2		Left Tilt	0	20450	829	25	Low	0.14	0.331	21.63	22.00	1.089	0.360	/
	State2		Right Cheek	0	20450	829	25	Low	0.02	0.657	21.63	22.00	1.089	0.715	/
	State2		Right Tilt	0	20450	829	25	Low	0.16	0.547	21.63	22.00	1.089	0.596	/
Ant.1	State4	QPSK	Left Cheek	0	20450	829	1	Mid	-0.15	0.317	20.71	21.00	1.069	0.339	/
	State4		Left Tilt	0	20450	829	1	Mid	-0.15	0.295	20.71	21.00	1.069	0.315	/
	State4		Right Cheek	0	20450	829	1	Mid	0.09	0.485	20.71	21.00	1.069	0.518	/
	State4		Right Tilt	0	20450	829	1	Mid	-0.13	0.423	20.71	21.00	1.069	0.452	/
	State4		Left Cheek	0	20450	829	25	Mid	-0.04	0.312	20.52	21.00	1.117	0.349	/
	State4		Left Tilt	0	20450	829	25	Mid	0.10	0.262	20.52	21.00	1.117	0.293	/
	State4		Right Cheek	0	20450	829	25	Mid	-0.14	0.475	20.52	21.00	1.117	0.531	/
	State4		Right Tilt	0	20450	829	25	Mid	-0.13	0.421	20.52	21.00	1.117	0.470	/
Ant.0	State2&4	QPSK	Left Cheek	0	20600	844	1	Mid	0.16	0.191	24.66	25.00	1.081	0.206	/
	State2&4		Left Tilt	0	20600	844	1	Mid	0.08	0.099	24.66	25.00	1.081	0.107	/
	State2&4		Right Cheek	0	20600	844	1	Mid	0.15	0.158	24.66	25.00	1.081	0.171	/
	State2&4		Right Tilt	0	20600	844	1	Mid	0.00	0.078	24.66	25.00	1.081	0.084	/
	State2&4		Left Cheek	0	20450	829	25	Low	0.06	0.165	23.86	24.00	1.033	0.170	/
	State2&4		Left Tilt	0	20450	829	25	Low	0.04	0.085	23.86	24.00	1.033	0.088	/
	State2&4		Right Cheek	0	20450	829	25	Low	-0.09	0.134	23.86	24.00	1.033	0.138	/
	State2&4		Right Tilt	0	20450	829	25	Low	-0.13	0.070	23.86	24.00	1.033	0.072	/
Body-worn															
Ant.1	State1	QPSK	Front Side	15	20600	844	1	Mid	-0.11	0.162	24.34	25.00	1.164	0.189	/
	State1		Back Side	15	20600	844	1	Mid	-0.05	0.221	24.34	25.00	1.164	0.257	33#
	State1		Front Side	15	20600	844	25	Low	-0.14	0.131	23.43	24.00	1.140	0.149	/
	State1		Back Side	15	20600	844	25	Low	0.14	0.147	23.43	24.00	1.140	0.168	/
Ant.1	State3	QPSK	Front Side	15	20525	836.5	1	Mid	0.08	0.101	23.34	23.50	1.038	0.105	/
	State3		Back Side	15	20525	836.5	1	Mid	-0.10	0.133	23.34	23.50	1.038	0.138	/
	State3		Front Side	15	20525	836.5	25	Low	0.15	0.117	23.11	23.50	1.094	0.128	/
	State3		Back Side	15	20525	836.5	25	Low	0.10	0.131	23.11	23.50	1.094	0.143	/
Ant.0	State1	QPSK	Front Side	15	20600	844	1	Mid	-0.07	0.064	24.66	25.00	1.081	0.069	/
	State1		Back Side	15	20600	844	1	Mid	0.07	0.130	24.66	25.00	1.081	0.141	/
	State1		Front Side	15	20450	829	25	Low	-0.02	0.051	23.86	24.00	1.033	0.053	/

	State1		Back Side	15	20450	829	25	Low	-0.09	0.095	23.86	24.00	1.033	0.098	/
Ant.0	State3	QPSK	Front Side	15	20525	836.5	1	Mid	0.15	0.045	23.08	23.50	1.102	0.050	/
	State3		Back Side	15	20525	836.5	1	Mid	0.12	0.102	23.08	23.50	1.102	0.112	/
	State3		Front Side	15	20450	829	25	Low	0.06	0.038	22.80	23.50	1.175	0.045	/
	State3		Back Side	15	20450	829	25	Low	0.08	0.089	22.80	23.50	1.175	0.105	/
	Hotspot														
Ant.1	State3	QPSK	Front Side	10	20525	836.5	1	Mid	-0.04	0.241	23.34	23.50	1.038	0.250	/
	State3		Back Side	10	20525	836.5	1	Mid	-0.13	0.296	23.34	23.50	1.038	0.307	34#
	State3		Left Edge	10	20525	836.5	1	Mid	-0.07	0.142	23.34	23.50	1.038	0.147	/
	State3		Right Edge	10	20525	836.5	1	Mid	-0.02	0.104	23.34	23.50	1.038	0.108	/
	State3		Top Edge	10	20525	836.5	1	Mid	-0.11	0.242	23.34	23.50	1.038	0.251	/
	State3		Front Side	10	20525	836.5	25	Low	-0.09	0.231	23.11	23.50	1.094	0.253	/
	State3		Back Side	10	20525	836.5	25	Low	-0.02	0.276	23.11	23.50	1.094	0.302	/
	State3		Left Edge	10	20525	836.5	25	Low	-0.07	0.135	23.11	23.50	1.094	0.148	/
	State3		Right Edge	10	20525	836.5	25	Low	-0.15	0.108	23.11	23.50	1.094	0.118	/
	State3		Top Edge	10	20525	836.5	25	Low	0.11	0.249	23.11	23.50	1.094	0.272	/
	Ant.0		State3	QPSK	Front Side	10	20525	836.5	1	Mid	0.14	0.137	23.08	23.50	1.102
State3		Back Side	10		20525	836.5	1	Mid	-0.01	0.233	23.08	23.50	1.102	0.257	/
State3		Left Edge	10		20525	836.5	1	Mid	-0.07	0.067	23.08	23.50	1.102	0.074	/
State3		Right Edge	10		20525	836.5	1	Mid	0.16	0.112	23.08	23.50	1.102	0.123	/
State3		Bottom Edge	10		20525	836.5	1	Mid	0.04	0.196	23.08	23.50	1.102	0.216	/
State3		Front Side	10		20450	829	25	Low	-0.15	0.150	22.80	23.50	1.175	0.176	/
State3		Back Side	10		20450	829	25	Low	-0.02	0.256	22.80	23.50	1.175	0.301	/
State3		Left Edge	10		20450	829	25	Low	-0.04	0.074	22.80	23.50	1.175	0.087	/
State3		Right Edge	10		20450	829	25	Low	-0.03	0.136	22.80	23.50	1.175	0.160	/
State3		Bottom Edge	10		20450	829	25	Low	0.16	0.230	22.80	23.50	1.175	0.270	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.11 LTE Band 7 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.1	State2	QPSK	Left Cheek	0	20850	2510	1	Mid	0.11	0.202	17.91	18.00	1.021	0.206	/
	State2		Left Tilt	0	20850	2510	1	Mid	-0.07	0.215	17.91	18.00	1.021	0.220	/
	State2		Right Cheek	0	20850	2510	1	Mid	-0.12	0.547	17.91	18.00	1.021	0.558	35#
	State2		Right Tilt	0	20850	2510	1	Mid	0.14	0.425	17.91	18.00	1.021	0.434	/
	State2		Left Cheek	0	21100	2535	50	High	-0.11	0.201	17.99	18.00	1.002	0.201	/
	State2		Left Tilt	0	21100	2535	50	High	-0.04	0.216	17.99	18.00	1.002	0.216	/
	State2		Right Cheek	0	21100	2535	50	High	-0.11	0.547	17.99	18.00	1.002	0.548	/
	State2		Right Tilt	0	21100	2535	50	High	0.14	0.404	17.99	18.00	1.002	0.405	/
Ant.1	State4	QPSK	Left Cheek	0	21100	2535	1	High	0.10	0.158	16.88	17.00	1.028	0.162	/
	State4		Left Tilt	0	21100	2535	1	High	-0.12	0.164	16.88	17.00	1.028	0.169	/
	State4		Right Cheek	0	21100	2535	1	High	-0.14	0.425	16.88	17.00	1.028	0.437	/
	State4		Right Tilt	0	21100	2535	1	High	0.16	0.361	16.88	17.00	1.028	0.371	/
	State4		Left Cheek	0	20850	2510	50	High	-0.05	0.154	16.82	17.00	1.042	0.160	/
	State4		Left Tilt	0	20850	2510	50	High	-0.10	0.163	16.82	17.00	1.042	0.170	/
	State4		Right Cheek	0	20850	2510	50	High	-0.11	0.425	16.82	17.00	1.042	0.443	/
	State4		Right Tilt	0	20850	2510	50	High	0.12	0.307	16.82	17.00	1.042	0.320	/
Ant.0	State2&4	QPSK	Left Cheek	0	21100	2535	1	Mid	-0.07	0.213	23.95	25.00	1.274	0.271	/
	State2&4		Left Tilt	0	21100	2535	1	Mid	0.15	0.145	23.95	25.00	1.274	0.185	/
	State2&4		Right Cheek	0	21100	2535	1	Mid	-0.10	0.352	23.95	25.00	1.274	0.448	/
	State2&4		Right Tilt	0	21100	2535	1	Mid	-0.12	0.220	23.95	25.00	1.274	0.280	/
	State2&4		Left Cheek	0	21350	2560	50	Low	0.13	0.184	23.08	24.00	1.236	0.227	/
	State2&4		Left Tilt	0	21350	2560	50	Low	-0.04	0.123	23.08	24.00	1.236	0.152	/
	State2&4		Right Cheek	0	21350	2560	50	Low	-0.02	0.289	23.08	24.00	1.236	0.357	/
	State2&4		Right Tilt	0	21350	2560	50	Low	0.01	0.193	23.08	24.00	1.236	0.239	/
Body-worn															
Ant.1	State1	QPSK	Front Side	15	21100	2535	1	Mid	0.06	0.095	20.91	21.00	1.021	0.097	/
	State1		Back Side	15	21100	2535	1	Mid	-0.17	0.152	20.91	21.00	1.021	0.155	36#
	State1		Front Side	15	21100	2535	50	Mid	-0.04	0.094	20.93	21.00	1.016	0.096	/
	State1		Back Side	15	21100	2535	50	Mid	-0.08	0.151	20.93	21.00	1.016	0.153	/
Ant.1	State3	QPSK	Front Side	15	21100	2535	1	Mid	-0.01	0.042	17.49	17.50	1.002	0.042	/
	State3		Back Side	15	21100	2535	1	Mid	0.16	0.067	17.49	17.50	1.002	0.067	/
	State3		Front Side	15	21100	2535	50	High	0.04	0.039	17.36	17.50	1.033	0.040	/
	State3		Back Side	15	21100	2535	50	High	0.01	0.066	17.36	17.50	1.033	0.068	/
Ant.0	State1	QPSK	Front Side	15	21100	2535	1	Mid	0.08	0.129	22.26	22.50	1.057	0.136	/
	State1		Back Side	15	21100	2535	1	Mid	-0.08	0.123	22.26	22.50	1.057	0.130	/
	State1		Front Side	15	21100	2535	50	Mid	0.01	0.134	22.48	22.50	1.005	0.135	/

	State1		Back Side	15	21100	2535	50	Mid	-0.15	0.123	22.48	22.50	1.005	0.124	/
Ant.0	State3	QPSK	Front Side	15	21100	2535	1	High	-0.07	0.081	20.45	20.50	1.012	0.082	/
	State3		Back Side	15	21100	2535	1	High	-0.07	0.077	20.45	20.50	1.012	0.078	/
	State3		Front Side	15	21100	2535	50	Mid	-0.10	0.101	20.47	20.50	1.007	0.102	/
	State3														
	State3		Back Side	15	21100	2535	50	Mid	0.02	0.098	20.47	20.50	1.007	0.099	/
Hotspot															
Ant.1	State3	QPSK	Front Side	10	21100	2535	1	Mid	-0.02	0.089	17.49	17.50	1.002	0.089	/
	State3		Back Side	10	21100	2535	1	Mid	0.03	0.183	17.49	17.50	1.002	0.183	/
	State3		Left Edge	10	21100	2535	1	Mid	0.07	0.003	17.49	17.50	1.002	0.003	/
	State3		Right Edge	10	21100	2535	1	Mid	0.13	0.105	17.49	17.50	1.002	0.105	/
	State3		Top Edge	10	21100	2535	1	Mid	0.06	0.142	17.49	17.50	1.002	0.142	/
	State3		Front Side	10	21100	2535	50	High	-0.01	0.100	17.36	17.50	1.033	0.103	/
	State3		Back Side	10	21100	2535	50	High	0.06	0.204	17.36	17.50	1.033	0.211	/
	State3		Left Edge	10	21100	2535	50	High	0.03	0.003	17.36	17.50	1.033	0.003	/
	State3		Right Edge	10	21100	2535	50	High	0.01	0.124	17.36	17.50	1.033	0.128	/
	State3		Top Edge	10	21100	2535	50	High	-0.15	0.151	17.36	17.50	1.033	0.156	/
Ant.0	State3	QPSK	Front Side	10	21100	2535	1	High	0.00	0.167	20.45	20.50	1.012	0.169	/
	State3		Back Side	10	21100	2535	1	High	-0.06	0.269	20.45	20.50	1.012	0.272	37#
	State3		Left Edge	10	21100	2535	1	High	-0.03	0.120	20.45	20.50	1.012	0.121	/
	State3		Right Edge	10	21100	2535	1	High	-0.11	0.029	20.45	20.50	1.012	0.029	/
	State3		Bottom Edge	10	21100	2535	1	High	-0.10	0.107	20.45	20.50	1.012	0.108	/
	State3		Front Side	10	21100	2535	50	Mid	-0.05	0.216	20.47	20.50	1.007	0.218	/
	State3		Back Side	10	21100	2535	50	Mid	0.12	0.255	20.47	20.50	1.007	0.257	/
	State3		Left Edge	10	21100	2535	50	Mid	-0.14	0.151	20.47	20.50	1.007	0.152	/
	State3		Right Edge	10	21100	2535	50	Mid	0.12	0.037	20.47	20.50	1.007	0.037	/
	State3		Bottom Edge	10	21100	2535	50	Mid	0.14	0.138	20.47	20.50	1.007	0.139	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.12 LTE Band 8 (10MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.1	State2	QPSK	Left Cheek	0	21625	897.5	1	Low	0.15	0.393	21.33	21.50	1.040	0.409	/
	State2		Left Tilt	0	21625	897.5	1	Low	0.10	0.380	21.33	21.50	1.040	0.395	/
	State2		Right Cheek	0	21625	897.5	1	Low	-0.10	0.735	21.33	21.50	1.040	0.764	38#
	State2		Right Tilt	0	21625	897.5	1	Low	-0.15	0.452	21.33	21.50	1.040	0.470	/
	State2		Left Cheek	0	21625	897.5	25	Low	0.04	0.382	21.31	21.50	1.045	0.399	/
	State2		Left Tilt	0	21625	897.5	25	Low	0.12	0.355	21.31	21.50	1.045	0.371	/
	State2		Right Cheek	0	21625	897.5	25	Low	0.12	0.715	21.31	21.50	1.045	0.747	/
	State2		Right Tilt	0	21625	897.5	25	Low	0.09	0.434	21.31	21.50	1.045	0.454	/
Ant.1	State4	QPSK	Left Cheek	0	21500	885.0	1	High	-0.03	0.312	20.27	20.50	1.054	0.329	/
	State4		Left Tilt	0	21500	885.0	1	High	0.16	0.302	20.27	20.50	1.054	0.318	/
	State4		Right Cheek	0	21500	885.0	1	High	-0.10	0.510	20.27	20.50	1.054	0.538	/
	State4		Right Tilt	0	21500	885.0	1	High	0.06	0.359	20.27	20.50	1.054	0.378	/
	State4		Left Cheek	0	21500	885.0	25	High	0.10	0.309	20.37	20.50	1.030	0.318	/
	State4		Left Tilt	0	21500	885.0	25	High	0.16	0.292	20.37	20.50	1.030	0.301	/
	State4		Right Cheek	0	21500	885.0	25	High	0.16	0.495	20.37	20.50	1.030	0.510	/
	State4		Right Tilt	0	21500	885.0	25	High	-0.11	0.354	20.37	20.50	1.030	0.365	/
Ant.0	State2&4	QPSK	Left Cheek	0	21500	885.0	1	Mid	-0.06	0.182	24.60	25.00	1.096	0.199	/
	State2&4		Left Tilt	0	21500	885.0	1	Mid	-0.01	0.080	24.60	25.00	1.096	0.088	/
	State2&4		Right Cheek	0	21500	885.0	1	Mid	-0.06	0.102	24.60	25.00	1.096	0.112	/
	State2&4		Right Tilt	0	21500	885.0	1	Mid	0.09	0.051	24.60	25.00	1.096	0.056	/
	State2&4		Left Cheek	0	21625	897.5	25	Low	-0.14	0.210	23.79	24.00	1.050	0.221	/
	State2&4		Left Tilt	0	21625	897.5	25	Low	0.13	0.094	23.79	24.00	1.050	0.099	/
	State2&4		Right Cheek	0	21625	897.5	25	Low	0.10	0.111	23.79	24.00	1.050	0.117	/
	State2&4		Right Tilt	0	21625	897.5	25	Low	0.16	0.059	23.79	24.00	1.050	0.062	/
Body-worn															
Ant.1	State1	QPSK	Front Side	15	21625	897.5	1	Mid	0.08	0.231	24.25	25.00	1.189	0.275	/
	State1		Back Side	15	21625	897.5	1	Mid	0.05	0.249	24.25	25.00	1.189	0.296	39#
	State1		Front Side	15	21500	885.0	25	Low	0.05	0.202	23.54	24.00	1.112	0.225	/
	State1		Back Side	15	21500	885.0	25	Low	0.02	0.214	23.54	24.00	1.112	0.238	/
Ant.1	State3	QPSK	Front Side	15	21500	885.0	1	Mid	-0.05	0.134	22.27	22.50	1.054	0.141	/
	State3		Back Side	15	21500	885.0	1	Mid	-0.04	0.142	22.27	22.50	1.054	0.150	/
	State3		Front Side	15	21500	885.0	25	Low	0.08	0.132	22.26	22.50	1.057	0.140	/
	State3		Back Side	15	21500	885.0	25	Low	-0.09	0.136	22.26	22.50	1.057	0.144	/
Ant.0	State1	QPSK	Front Side	15	21500	885.0	1	Mid	-0.09	0.085	24.60	25.00	1.096	0.093	/
	State1		Back Side	15	21500	885.0	1	Mid	0.02	0.116	24.60	25.00	1.096	0.127	/
	State1		Front Side	15	21625	897.5	25	Low	0.06	0.089	23.79	24.00	1.050	0.093	/

	State1		Back Side	15	21625	897.5	25	Low	0.12	0.103	23.79	24.00	1.050	0.108	/
Ant.0	State3	QPSK	Front Side	15	21500	885.0	1	Mid	-0.12	0.046	22.26	22.50	1.057	0.049	/
	State3		Back Side	15	21500	885.0	1	Mid	0.05	0.065	22.26	22.50	1.057	0.069	/
	State3		Front Side	15	21500	885.0	25	Low	-0.02	0.063	22.13	22.50	1.089	0.069	/
	State3		Back Side	15	21500	885.0	25	Low	-0.08	0.072	22.13	22.50	1.089	0.078	/
Hotspot															
Ant.1	State3	QPSK	Front Side	10	21500	885.0	1	Mid	0.06	0.278	22.27	22.50	1.054	0.293	/
	State3		Back Side	10	21500	885.0	1	Mid	-0.13	0.316	22.27	22.50	1.054	0.333	40#
	State3		Left Edge	10	21500	885.0	1	Mid	0.09	0.137	22.27	22.50	1.054	0.144	/
	State3		Right Edge	10	21500	885.0	1	Mid	-0.08	0.109	22.27	22.50	1.054	0.115	/
	State3		Top Edge	10	21500	885.0	1	Mid	-0.09	0.239	22.27	22.50	1.054	0.252	/
	State3		Front Side	10	21500	885.0	25	Low	0.00	0.265	22.26	22.50	1.057	0.280	/
	State3		Back Side	10	21500	885.0	25	Low	-0.15	0.310	22.26	22.50	1.057	0.328	/
	State3		Left Edge	10	21500	885.0	25	Low	-0.14	0.132	22.26	22.50	1.057	0.140	/
	State3		Right Edge	10	21500	885.0	25	Low	0.06	0.107	22.26	22.50	1.057	0.113	/
	State3		Top Edge	10	21500	885.0	25	Low	0.00	0.236	22.26	22.50	1.057	0.249	/
Ant.0	State3	QPSK	Front Side	10	21500	885.0	1	Mid	0.03	0.093	22.26	22.50	1.057	0.098	/
	State3		Back Side	10	21500	885.0	1	Mid	-0.04	0.163	22.26	22.50	1.057	0.172	/
	State3		Left Edge	10	21500	885.0	1	Mid	-0.15	0.003	22.26	22.50	1.057	0.003	/
	State3		Right Edge	10	21500	885.0	1	Mid	-0.01	0.048	22.26	22.50	1.057	0.051	/
	State3		Bottom Edge	10	21500	885.0	1	Mid	0.03	0.173	22.26	22.50	1.057	0.183	/
	State3		Front Side	10	21500	885.0	25	Low	0.01	0.137	22.13	22.50	1.089	0.149	/
	State3		Back Side	10	21500	885.0	25	Low	0.06	0.243	22.13	22.50	1.089	0.265	/
	State3		Left Edge	10	21500	885.0	25	Low	0.04	0.003	22.13	22.50	1.089	0.003	/
	State3		Right Edge	10	21500	885.0	25	Low	0.15	0.069	22.13	22.50	1.089	0.075	/
	State3		Bottom Edge	10	21500	885.0	25	Low	0.14	0.257	22.13	22.50	1.089	0.280	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.13 LTE Band 12 (10MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.1	State2&4	QPSK	Left Cheek	0	23060	704	1	Mid	0.00	0.146	20.77	21.00	1.054	0.154	/
	State2&4		Left Tilt	0	23060	704	1	Mid	0.15	0.125	20.77	21.00	1.054	0.132	/
	State2&4		Right Cheek	0	23060	704	1	Mid	0.06	0.263	20.77	21.00	1.054	0.277	/
	State2&4		Right Tilt	0	23060	704	1	Mid	-0.03	0.219	20.77	21.00	1.054	0.231	/
	State2&4		Left Cheek	0	23060	704	25	High	-0.07	0.177	20.46	21.00	1.132	0.200	/
	State2&4		Left Tilt	0	23060	704	25	High	-0.03	0.155	20.46	21.00	1.132	0.175	/
	State2&4		Right Cheek	0	23060	704	25	High	-0.02	0.325	20.46	21.00	1.132	0.368	41#
	State2&4		Right Tilt	0	23060	704	25	High	-0.04	0.270	20.46	21.00	1.132	0.306	/
Ant.0	State2&4	QPSK	Left Cheek	0	23130	711	1	Mid	-0.04	0.062	24.44	25.00	1.138	0.071	/
	State2&4		Left Tilt	0	23130	711	1	Mid	0.10	0.025	24.44	25.00	1.138	0.028	/
	State2&4		Right Cheek	0	23130	711	1	Mid	-0.10	0.059	24.44	25.00	1.138	0.067	/
	State2&4		Right Tilt	0	23130	711	1	Mid	-0.12	0.034	24.44	25.00	1.138	0.039	/
	State2&4		Left Cheek	0	23130	711	25	High	0.15	0.078	23.34	24.00	1.164	0.091	/
	State2&4		Left Tilt	0	23130	711	25	High	0.07	0.034	23.34	24.00	1.164	0.040	/
	State2&4		Right Cheek	0	23130	711	25	High	-0.03	0.065	23.34	24.00	1.164	0.076	/
	State2&4		Right Tilt	0	23130	711	25	High	-0.05	0.025	23.34	24.00	1.164	0.029	/
Body-worn															
Ant.1	State1&3	QPSK	Front Side	15	23095	707.5	1	Mid	0.01	0.170	24.73	25.00	1.064	0.181	/
	State1&3		Back Side	15	23095	707.5	1	Mid	-0.08	0.217	24.73	25.00	1.064	0.231	42#
	State1&3		Front Side	15	23095	707.5	25	Mid	-0.07	0.157	23.68	24.00	1.076	0.169	/
	State1&3		Back Side	15	23095	707.5	25	Mid	-0.11	0.193	23.68	24.00	1.076	0.208	/
Ant.0	State1&3	QPSK	Front Side	15	23130	711	1	Mid	-0.07	0.018	24.44	25.00	1.138	0.020	/
	State1&3		Back Side	15	23130	711	1	Mid	-0.15	0.021	24.44	25.00	1.138	0.024	/
	State1&3		Front Side	15	23130	711	25	High	-0.05	0.012	23.34	24.00	1.164	0.014	/
	State1&3		Back Side	15	23130	711	25	High	-0.02	0.019	23.34	24.00	1.164	0.022	/
Hotspot															
Ant.1	State3	QPSK	Front Side	10	23095	707.5	1	Mid	0.13	0.182	24.73	25.00	1.064	0.194	/
	State3		Back Side	10	23095	707.5	1	Mid	0.03	0.253	24.73	25.00	1.064	0.269	43#
	State3		Left Edge	10	23095	707.5	1	Mid	-0.08	0.179	24.73	25.00	1.064	0.190	/
	State3		Right Edge	10	23095	707.5	1	Mid	0.07	0.191	24.73	25.00	1.064	0.203	/
	State3		Top Edge	10	23095	707.5	1	Mid	0.01	0.210	24.73	25.00	1.064	0.223	/
	State3		Front Side	10	23095	707.5	25	Mid	-0.05	0.144	23.68	24.00	1.076	0.155	/
	State3		Back Side	10	23095	707.5	25	Mid	-0.05	0.221	23.68	24.00	1.076	0.238	/
	State3		Left Edge	10	23095	707.5	25	Mid	0.10	0.164	23.68	24.00	1.076	0.176	/
	State3		Right Edge	10	23095	707.5	25	Mid	-0.15	0.179	23.68	24.00	1.076	0.193	/
	State3		Top Edge	10	23095	707.5	25	Mid	0.07	0.198	23.68	24.00	1.076	0.213	/

Ant.0	State3	QPSK	Front Side	10	23130	711	1	Mid	-0.03	0.046	24.44	25.00	1.138	0.052	/
	State3		Back Side	10	23130	711	1	Mid	0.14	0.072	24.44	25.00	1.138	0.082	/
	State3		Left Edge	10	23130	711	1	Mid	-0.01	0.052	24.44	25.00	1.138	0.059	/
	State3		Right Edge	10	23130	711	1	Mid	0.07	0.065	24.44	25.00	1.138	0.074	/
	State3		Bottom Edge	10	23130	711	1	Mid	-0.04	0.012	24.44	25.00	1.138	0.014	/
	State3		Front Side	10	23130	711	25	High	0.03	0.037	23.34	24.00	1.164	0.043	/
	State3		Back Side	10	23130	711	25	High	0.06	0.064	23.34	24.00	1.164	0.074	/
	State3		Left Edge	10	23130	711	25	High	-0.02	0.045	23.34	24.00	1.164	0.052	/
	State3		Right Edge	10	23130	711	25	High	-0.12	0.057	23.34	24.00	1.164	0.066	/
	State3		Bottom Edge	10	23130	711	25	High	0.01	0.012	23.34	24.00	1.164	0.014	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.14 LTE Band 13 (10MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.1	State2&4	QPSK	Left Cheek	0	23230	782	1	Mid	-0.02	0.212	23.92	25.00	1.282	0.272	/
	State2&4		Left Tilt	0	23230	782	1	Mid	0.07	0.235	23.92	25.00	1.282	0.301	/
	State2&4		Right Cheek	0	23230	782	1	Mid	0.18	0.377	23.92	25.00	1.282	0.483	44#
	State2&4		Right Tilt	0	23230	782	1	Mid	-0.12	0.304	23.92	25.00	1.282	0.390	/
	State2&4		Left Cheek	0	23230	782	25	Mid	0.15	0.189	22.90	24.00	1.288	0.243	/
	State2&4		Left Tilt	0	23230	782	25	Mid	0.02	0.184	22.90	24.00	1.288	0.237	/
	State2&4		Right Cheek	0	23230	782	25	Mid	-0.12	0.310	22.90	24.00	1.288	0.399	/
	State2&4		Right Tilt	0	23230	782	25	Mid	0.04	0.249	22.90	24.00	1.288	0.321	/
Ant.0	State2&4	QPSK	Left Cheek	0	23230	782	1	Mid	0.04	0.067	24.20	25.00	1.202	0.081	/
	State2&4		Left Tilt	0	23230	782	1	Mid	0.04	0.048	24.20	25.00	1.202	0.058	/
	State2&4		Right Cheek	0	23230	782	1	Mid	0.03	0.059	24.20	25.00	1.202	0.071	/
	State2&4		Right Tilt	0	23230	782	1	Mid	0.07	0.039	24.20	25.00	1.202	0.047	/
	State2&4		Left Cheek	0	23230	782	25	Low	0.05	0.115	23.04	24.00	1.247	0.143	/
	State2&4		Left Tilt	0	23230	782	25	Low	-0.14	0.061	23.04	24.00	1.247	0.076	/
	State2&4		Right Cheek	0	23230	782	25	Low	-0.04	0.100	23.04	24.00	1.247	0.125	/
	State2&4		Right Tilt	0	23230	782	25	Low	0.07	0.062	23.04	24.00	1.247	0.077	/
Body-worn															
Ant.1	State1&3	QPSK	Front Side	15	23230	782	1	Mid	0.11	0.089	23.92	25.00	1.282	0.114	/
	State1&3		Back Side	15	23230	782	1	Mid	-0.05	0.127	23.92	25.00	1.282	0.163	45#
	State1&3		Front Side	15	23230	782	25	Mid	-0.06	0.075	22.90	24.00	1.288	0.097	/
	State1&3		Back Side	15	23230	782	25	Mid	-0.12	0.087	22.90	24.00	1.288	0.112	/
Ant.0	State1	QPSK	Front Side	15	23230	782	1	Mid	0.11	0.064	24.20	25.00	1.202	0.077	/
	State1		Back Side	15	23230	782	1	Mid	-0.09	0.084	24.20	25.00	1.202	0.101	/
	State1		Front Side	15	23230	782	25	Low	0.00	0.058	23.04	24.00	1.247	0.072	/
	State1		Back Side	15	23230	782	25	Low	0.08	0.079	23.04	24.00	1.247	0.099	/
Ant.0	State3	QPSK	Front Side	15	23230	782	1	Mid	0.14	0.052	23.12	23.50	1.091	0.057	/
	State3		Back Side	15	23230	782	1	Mid	0.03	0.068	23.12	23.50	1.091	0.074	/
	State3		Front Side	15	23230	782	25	Mid	-0.08	0.048	23.12	23.50	1.091	0.052	/
	State3		Back Side	15	23230	782	25	Mid	0.03	0.065	23.12	23.50	1.091	0.071	/
Hotspot															
Ant.1	State3	QPSK	Front Side	10	23230	782	1	Mid	0.15	0.107	23.92	25.00	1.282	0.137	/
	State3		Back Side	10	23230	782	1	Mid	0.04	0.122	23.92	25.00	1.282	0.156	46#
	State3		Left Edge	10	23230	782	1	Mid	0.08	0.093	23.92	25.00	1.282	0.119	/
	State3		Right Edge	10	23230	782	1	Mid	-0.06	0.092	23.92	25.00	1.282	0.118	/
	State3		Top Edge	10	23230	782	1	Mid	-0.03	0.115	23.92	25.00	1.282	0.147	/
	State3		Front Side	10	23230	782	25	Mid	0.15	0.085	22.90	24.00	1.288	0.109	/

	State3		Back Side	10	23230	782	25	Mid	0.08	0.100	22.90	24.00	1.288	0.129	/
	State3		Left Edge	10	23230	782	25	Mid	0.04	0.079	22.90	24.00	1.288	0.102	/
	State3		Right Edge	10	23230	782	25	Mid	0.03	0.069	22.90	24.00	1.288	0.089	/
	State3		Top Edge	10	23230	782	25	Mid	-0.04	0.100	22.90	24.00	1.288	0.129	/
Ant.0	State3	QPSK	Front Side	10	23230	782	1	Mid	-0.13	0.051	23.12	23.50	1.091	0.056	/
	State3		Back Side	10	23230	782	1	Mid	0.09	0.084	23.12	23.50	1.091	0.092	/
	State3		Left Edge	10	23230	782	1	Mid	-0.06	0.048	23.12	23.50	1.091	0.052	/
	State3		Right Edge	10	23230	782	1	Mid	0.12	0.078	23.12	23.50	1.091	0.085	/
	State3		Bottom Edge	10	23230	782	1	Mid	0.15	0.062	23.12	23.50	1.091	0.068	/
	State3		Front Side	10	23230	782	25	Mid	0.16	0.064	23.12	23.50	1.091	0.070	/
	State3		Back Side	10	23230	782	25	Mid	-0.09	0.089	23.12	23.50	1.091	0.097	/
	State3		Left Edge	10	23230	782	25	Mid	0.05	0.050	23.12	23.50	1.091	0.055	/
	State3		Right Edge	10	23230	782	25	Mid	-0.03	0.072	23.12	23.50	1.091	0.079	/
	State3		Bottom Edge	10	23230	782	25	Mid	-0.07	0.082	23.12	23.50	1.091	0.089	/

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

10.15 LTE Band 17 (10MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.1	State2&4	QPSK	Left Cheek	0	23790	710	1	Mid	-0.05	0.271	21.37	21.50	1.030	0.279	/
	State2&4		Left Tilt	0	23790	710	1	Mid	0.14	0.244	21.37	21.50	1.030	0.251	/
	State2&4		Right Cheek	0	23790	710	1	Mid	-0.13	0.465	21.37	21.50	1.030	0.479	/
	State2&4		Right Tilt	0	23790	710	1	Mid	-0.07	0.353	21.37	21.50	1.030	0.364	/
	State2&4		Left Cheek	0	23790	710	25	High	0.05	0.318	21.07	21.50	1.104	0.351	/
	State2&4		Left Tilt	0	23790	710	25	High	0.05	0.289	21.07	21.50	1.104	0.319	/
	State2&4		Right Cheek	0	23790	710	25	High	-0.01	0.522	21.07	21.50	1.104	0.576	47#
	State2&4		Right Tilt	0	23790	710	25	High	-0.06	0.405	21.07	21.50	1.104	0.447	/
Ant.0	State2&4	QPSK	Left Cheek	0	23790	710	1	Mid	0.14	0.054	24.43	25.00	1.140	0.062	/
	State2&4		Left Tilt	0	23790	710	1	Mid	-0.03	0.032	24.43	25.00	1.140	0.036	/
	State2&4		Right Cheek	0	23790	710	1	Mid	0.01	0.062	24.43	25.00	1.140	0.071	/
	State2&4		Right Tilt	0	23790	710	1	Mid	-0.05	0.025	24.43	25.00	1.140	0.029	/
	State2&4		Left Cheek	0	23790	710	25	High	0.08	0.068	23.38	24.00	1.153	0.078	/
	State2&4		Left Tilt	0	23790	710	25	High	-0.06	0.036	23.38	24.00	1.153	0.042	/
	State2&4		Right Cheek	0	23790	710	25	High	-0.12	0.072	23.38	24.00	1.153	0.083	/
	State2&4		Right Tilt	0	23790	710	25	High	-0.06	0.036	23.38	24.00	1.153	0.042	/
Body-worn															
Ant.1	State1&3	QPSK	Front Side	15	23790	710	1	Mid	-0.03	0.136	24.79	25.00	1.050	0.143	/
	State1&3		Back Side	15	23790	710	1	Mid	-0.11	0.173	24.79	25.00	1.050	0.182	48#
	State1&3		Front Side	15	23790	710	25	High	0.02	0.115	23.68	24.00	1.076	0.124	/
	State1&3		Back Side	15	23790	710	25	High	-0.08	0.142	23.68	24.00	1.076	0.153	/
Ant.0	State1&3	QPSK	Front Side	15	23790	710	1	Mid	0.15	0.015	24.43	25.00	1.140	0.017	/
	State1&3		Back Side	15	23790	710	1	Mid	-0.03	0.024	24.43	25.00	1.140	0.027	/
	State1&3		Front Side	15	23790	710	25	High	0.16	0.010	23.38	24.00	1.153	0.012	/
	State1&3		Back Side	15	23790	710	25	High	-0.03	0.021	23.38	24.00	1.153	0.024	/
Hotspot															
Ant.1	State3	QPSK	Front Side	10	23790	710	1	Mid	-0.12	0.152	24.79	25.00	1.050	0.160	/
	State3		Back Side	10	23790	710	1	Mid	-0.16	0.204	24.79	25.00	1.050	0.214	49#
	State3		Left Edge	10	23790	710	1	Mid	0.07	0.160	24.79	25.00	1.050	0.168	/
	State3		Right Edge	10	23790	710	1	Mid	0.15	0.175	24.79	25.00	1.050	0.184	/
	State3		Top Edge	10	23790	710	1	Mid	-0.09	0.189	24.79	25.00	1.050	0.198	/
	State3		Front Side	10	23790	710	25	High	0.00	0.132	23.68	24.00	1.076	0.142	/
	State3		Back Side	10	23790	710	25	High	-0.15	0.158	23.68	24.00	1.076	0.170	/
	State3		Left Edge	10	23790	710	25	High	0.05	0.145	23.68	24.00	1.076	0.156	/
	State3		Right Edge	10	23790	710	25	High	-0.10	0.149	23.68	24.00	1.076	0.160	/
	State3		Top Edge	10	23790	710	25	High	-0.12	0.153	23.68	24.00	1.076	0.165	/

Ant.0	State3	QPSK	Front Side	10	23790	710	1	Mid	0.00	0.020	24.43	25.00	1.140	0.023	/
	State3		Back Side	10	23790	710	1	Mid	-0.06	0.049	24.43	25.00	1.140	0.056	/
	State3		Left Edge	10	23790	710	1	Mid	-0.03	0.001	24.43	25.00	1.140	0.001	/
	State3		Right Edge	10	23790	710	1	Mid	-0.09	0.035	24.43	25.00	1.140	0.040	/
	State3		Bottom Edge	10	23790	710	1	Mid	0.07	0.009	24.43	25.00	1.140	0.010	/
	State3		Front Side	10	23790	710	25	High	-0.10	0.016	23.38	24.00	1.153	0.018	/
	State3		Back Side	10	23790	710	25	High	0.01	0.044	23.38	24.00	1.153	0.051	/
	State3		Left Edge	10	23790	710	25	High	0.12	0.003	23.38	24.00	1.153	0.003	/
	State3		Right Edge	10	23790	710	25	High	-0.09	0.031	23.38	24.00	1.153	0.036	/
	State3		Bottom Edge	10	23790	710	25	High	-0.15	0.010	23.38	24.00	1.153	0.012	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.16 LTE Band 18 (15MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.1	State2	QPSK	Left Cheek	0	23925	822.5	1	Low	0.01	0.502	21.75	22.00	1.059	0.532	/
	State2		Left Tilt	0	23925	822.5	1	Low	0.09	0.436	21.75	22.00	1.059	0.462	/
	State2		Right Cheek	0	23925	822.5	1	Low	-0.13	0.792	21.75	22.00	1.059	0.839	50#
	State2		Right Tilt	0	23925	822.5	1	Low	0.14	0.618	21.75	22.00	1.059	0.654	/
	State2		Left Cheek	0	23925	822.5	36	Mid	-0.14	0.539	21.65	22.00	1.084	0.584	/
	State2		Left Tilt	0	23925	822.5	36	Mid	-0.04	0.463	21.65	22.00	1.084	0.502	/
	State2		Right Cheek	0	23925	822.5	36	Mid	0.02	0.752	21.65	22.00	1.084	0.815	/
	State2		Right Tilt	0	23925	822.5	36	Mid	0.04	0.602	21.65	22.00	1.084	0.653	/
	State2		Right Cheek	0	23925	822.5	75	Low	-0.06	0.603	21.64	22.00	1.086	0.655	/
Ant.1	State4	QPSK	Left Cheek	0	23925	822.5	1	Mid	-0.05	0.392	20.77	21.00	1.054	0.413	/
	State4		Left Tilt	0	23925	822.5	1	Mid	0.03	0.346	20.77	21.00	1.054	0.365	/
	State4		Right Cheek	0	23925	822.5	1	Mid	-0.07	0.625	20.77	21.00	1.054	0.659	/
	State4		Right Tilt	0	23925	822.5	1	Mid	-0.12	0.490	20.77	21.00	1.054	0.516	/
	State4		Left Cheek	0	23925	822.5	36	Low	0.02	0.425	20.67	21.00	1.079	0.459	/
	State4		Left Tilt	0	23925	822.5	36	Low	0.11	0.361	20.67	21.00	1.079	0.390	/
	State4		Right Cheek	0	23925	822.5	36	Low	-0.05	0.569	20.67	21.00	1.079	0.614	/
	State4		Right Tilt	0	23925	822.5	36	Low	-0.10	0.458	20.67	21.00	1.079	0.494	/
Ant.0	State2&4	QPSK	Left Cheek	0	23925	822.5	1	Mid	-0.06	0.125	24.50	25.00	1.122	0.140	/
	State2&4		Left Tilt	0	23925	822.5	1	Mid	-0.12	0.075	24.50	25.00	1.122	0.084	/
	State2&4		Right Cheek	0	23925	822.5	1	Mid	0.04	0.102	24.50	25.00	1.122	0.114	/
	State2&4		Right Tilt	0	23925	822.5	1	Mid	-0.03	0.051	24.50	25.00	1.122	0.057	/
	State2&4		Left Cheek	0	23925	822.5	36	High	0.05	0.105	23.82	24.00	1.042	0.109	/
	State2&4		Left Tilt	0	23925	822.5	36	High	-0.09	0.068	23.82	24.00	1.042	0.071	/
	State2&4		Right Cheek	0	23925	822.5	36	High	-0.06	0.098	23.82	24.00	1.042	0.102	/
	State2&4		Right Tilt	0	23925	822.5	36	High	-0.01	0.049	23.82	24.00	1.042	0.051	/
Body-worn															
Ant.1	State1	QPSK	Front Side	15	23925	822.5	1	Mid	0.15	0.175	24.44	25.00	1.138	0.199	/
	State1		Back Side	15	23925	822.5	1	Mid	-0.09	0.216	24.44	25.00	1.138	0.246	51#
	State1		Front Side	15	23925	822.5	36	Low	0.05	0.168	23.47	24.00	1.130	0.190	/
	State1		Back Side	15	23925	822.5	36	Low	0.06	0.205	23.47	24.00	1.130	0.232	/
Ant.1	State3	QPSK	Front Side	15	23925	822.5	1	Mid	0.06	0.154	23.79	24.00	1.050	0.162	/
	State3		Back Side	15	23925	822.5	1	Mid	-0.03	0.189	23.79	24.00	1.050	0.198	/
	State3		Front Side	15	23925	822.5	36	Mid	0.11	0.168	23.71	24.00	1.069	0.180	/
	State3		Back Side	15	23925	822.5	36	Mid	0.09	0.205	23.71	24.00	1.069	0.219	/
Ant.0	State1	QPSK	Front Side	15	23925	822.5	1	Mid	0.16	0.095	24.50	25.00	1.122	0.107	/
	State1		Back Side	15	23925	822.5	1	Mid	0.01	0.101	24.50	25.00	1.122	0.113	/

	State1		Front Side	15	23925	822.5	36	High	0.11	0.091	23.82	24.00	1.042	0.095	/
	State1		Back Side	15	23925	822.5	36	High	-0.02	0.098	23.82	24.00	1.042	0.102	/
Ant.0	State3	QPSK	Front Side	15	23925	822.5	1	Mid	0.05	0.085	23.98	24.50	1.127	0.096	/
	State3		Back Side	15	23925	822.5	1	Mid	0.11	0.092	23.98	24.50	1.127	0.104	/
	State3		Front Side	15	23925	822.5	36	Low	0.00	0.091	23.96	24.00	1.009	0.092	/
	State3		Back Side	15	23925	822.5	36	Low	0.10	0.098	23.96	24.00	1.009	0.099	/
Hotspot															
Ant.1	State3	QPSK	Front Side	10	23925	822.5	1	Mid	-0.12	0.253	23.79	24.00	1.050	0.266	/
	State3		Back Side	10	23925	822.5	1	Mid	-0.04	0.351	23.79	24.00	1.050	0.369	/
	State3		Left Edge	10	23925	822.5	1	Mid	0.16	0.141	23.79	24.00	1.050	0.148	/
	State3		Right Edge	10	23925	822.5	1	Mid	-0.11	0.109	23.79	24.00	1.050	0.114	/
	State3		Top Edge	10	23925	822.5	1	Mid	0.03	0.289	23.79	24.00	1.050	0.303	/
	State3		Front Side	10	23925	822.5	36	Mid	-0.09	0.313	23.71	24.00	1.069	0.335	/
	State3		Back Side	10	23925	822.5	36	Mid	-0.08	0.383	23.71	24.00	1.069	0.409	52#
	State3		Left Edge	10	23925	822.5	36	Mid	-0.12	0.194	23.71	24.00	1.069	0.207	/
	State3		Right Edge	10	23925	822.5	36	Mid	0.06	0.142	23.71	24.00	1.069	0.152	/
	State3		Top Edge	10	23925	822.5	36	Mid	0.14	0.329	23.71	24.00	1.069	0.352	/
Ant.0	State3	QPSK	Front Side	10	23925	822.5	1	Mid	0.11	0.109	23.98	24.50	1.127	0.123	/
	State3		Back Side	10	23925	822.5	1	Mid	0.05	0.230	23.98	24.50	1.127	0.259	/
	State3		Left Edge	10	23925	822.5	1	Mid	0.10	0.054	23.98	24.50	1.127	0.061	/
	State3		Right Edge	10	23925	822.5	1	Mid	0.03	0.099	23.98	24.50	1.127	0.112	/
	State3		Bottom Edge	10	23925	822.5	1	Mid	0.08	0.157	23.98	24.50	1.127	0.177	/
	State3		Front Side	10	23925	822.5	36	Low	-0.10	0.122	23.96	24.00	1.009	0.123	/
	State3		Back Side	10	23925	822.5	36	Low	0.01	0.224	23.96	24.00	1.009	0.226	/
	State3		Left Edge	10	23925	822.5	36	Low	-0.09	0.061	23.96	24.00	1.009	0.062	/
	State3		Right Edge	10	23925	822.5	36	Low	0.15	0.131	23.96	24.00	1.009	0.132	/
	State3		Bottom Edge	10	23925	822.5	36	Low	0.12	0.166	23.96	24.00	1.009	0.167	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.17 LTE Band 19 (15MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.1	State2	QPSK	Left Cheek	0	24075	837.5	1	Mid	0.02	0.510	23.23	23.50	1.064	0.543	/
	State2		Left Tilt	0	24075	837.5	1	Mid	0.13	0.468	23.23	23.50	1.064	0.498	/
	State2		Right Cheek	0	24075	837.5	1	Mid	0.13	0.821	23.23	23.50	1.064	0.874	53#
	State2		Right Tilt	0	24075	837.5	1	Mid	-0.06	0.721	23.23	23.50	1.064	0.767	/
	State2		Left Cheek	0	24075	837.5	36	Low	0.15	0.502	23.07	23.50	1.104	0.554	/
	State2		Left Tilt	0	24075	837.5	36	Low	-0.15	0.458	23.07	23.50	1.104	0.506	/
	State2		Right Cheek	0	24075	837.5	36	Low	-0.01	0.789	23.07	23.50	1.104	0.871	/
	State2		Right Tilt	0	24075	837.5	36	Low	0.02	0.654	23.07	23.50	1.104	0.722	/
	State2		Right Cheek	0	24075	837.5	75	Low	0.03	0.639	22.97	23.50	1.130	0.722	/
Ant.1	State4	QPSK	Left Cheek	0	24075	837.5	1	Low	0.00	0.395	22.01	22.50	1.119	0.442	/
	State4		Left Tilt	0	24075	837.5	1	Low	-0.04	0.364	22.01	22.50	1.119	0.407	/
	State4		Right Cheek	0	24075	837.5	1	Low	0.01	0.625	22.01	22.50	1.119	0.699	/
	State4		Right Tilt	0	24075	837.5	1	Low	0.13	0.572	22.01	22.50	1.119	0.640	/
	State4		Left Cheek	0	24075	837.5	36	Mid	-0.13	0.367	21.96	22.50	1.132	0.415	/
	State4		Left Tilt	0	24075	837.5	36	Mid	-0.15	0.341	21.96	22.50	1.132	0.386	/
	State4		Right Cheek	0	24075	837.5	36	Mid	0.03	0.601	21.96	22.50	1.132	0.680	/
	State4		Right Tilt	0	24075	837.5	36	Mid	0.13	0.502	21.96	22.50	1.132	0.568	/
Ant.0	State2&4	QPSK	Left Cheek	0	24075	837.5	1	Mid	-0.13	0.111	24.70	25.00	1.072	0.119	/
	State2&4		Left Tilt	0	24075	837.5	1	Mid	0.03	0.064	24.70	25.00	1.072	0.069	/
	State2&4		Right Cheek	0	24075	837.5	1	Mid	0.03	0.103	24.70	25.00	1.072	0.110	/
	State2&4		Right Tilt	0	24075	837.5	1	Mid	0.07	0.053	24.70	25.00	1.072	0.057	/
	State2&4		Left Cheek	0	24075	837.5	36	Low	-0.02	0.121	23.59	24.00	1.099	0.133	/
	State2&4		Left Tilt	0	24075	837.5	36	Low	-0.01	0.067	23.59	24.00	1.099	0.074	/
	State2&4		Right Cheek	0	24075	837.5	36	Low	-0.14	0.102	23.59	24.00	1.099	0.112	/
	State2&4		Right Tilt	0	24075	837.5	36	Low	-0.10	0.052	23.59	24.00	1.099	0.057	/
Body-worn															
Ant.1	State1&3	QPSK	Front Side	15	24075	837.5	1	Mid	-0.06	0.178	24.29	25.00	1.178	0.210	/
	State1&3		Back Side	15	24075	837.5	1	Mid	-0.05	0.224	24.29	25.00	1.178	0.264	54#
	State1&3		Front Side	15	24075	837.5	36	Low	0.02	0.164	23.28	24.00	1.180	0.194	/
	State1&3		Back Side	15	24075	837.5	36	Low	-0.02	0.196	23.28	24.00	1.180	0.231	/
Ant.0	State1	QPSK	Front Side	15	24075	837.5	1	Mid	-0.03	0.089	24.70	25.00	1.072	0.095	/
	State1		Back Side	15	24075	837.5	1	Mid	-0.01	0.110	24.70	25.00	1.072	0.118	/
	State1		Front Side	15	24075	837.5	36	Low	-0.02	0.085	23.59	24.00	1.099	0.093	/
	State1		Back Side	15	24075	837.5	36	Low	-0.15	0.102	23.59	24.00	1.099	0.112	/
Ant.0	State3	QPSK	Front Side	15	24075	837.5	1	Low	0.05	0.076	23.29	24.00	1.178	0.090	/
	State3		Back Side	15	24075	837.5	1	Low	-0.06	0.095	23.29	24.00	1.178	0.112	/

	State3		Front Side	15	24075	837.5	36	Low	0.04	0.082	23.12	24.00	1.225	0.100	/
	State3		Back Side	15	24075	837.5	36	Low	-0.07	0.101	23.12	24.00	1.225	0.124	/
Hotspot															
Ant.1	State3	QPSK	Front Side	10	24075	837.5	1	Mid	0.10	0.294	24.29	25.00	1.178	0.346	/
	State3		Back Side	10	24075	837.5	1	Mid	-0.07	0.366	24.29	25.00	1.178	0.431	55#
	State3		Left Edge	10	24075	837.5	1	Mid	-0.10	0.177	24.29	25.00	1.178	0.209	/
	State3		Right Edge	10	24075	837.5	1	Mid	0.14	0.127	24.29	25.00	1.178	0.150	/
	State3		Top Edge	10	24075	837.5	1	Mid	-0.10	0.306	24.29	25.00	1.178	0.360	/
	State3		Front Side	10	24075	837.5	36	Low	-0.09	0.263	23.28	24.00	1.180	0.310	/
	State3		Back Side	10	24075	837.5	36	Low	0.16	0.324	23.28	24.00	1.180	0.382	/
	State3		Left Edge	10	24075	837.5	36	Low	-0.10	0.160	23.28	24.00	1.180	0.189	/
	State3		Right Edge	10	24075	837.5	36	Low	-0.13	0.112	23.28	24.00	1.180	0.132	/
	State3		Top Edge	10	24075	837.5	36	Low	0.08	0.260	23.28	24.00	1.180	0.307	/
Ant.0	State3	QPSK	Front Side	10	24075	837.5	1	Low	-0.05	0.137	23.29	24.00	1.178	0.161	/
	State3		Back Side	10	24075	837.5	1	Low	0.04	0.214	23.29	24.00	1.178	0.252	/
	State3		Left Edge	10	24075	837.5	1	Low	0.04	0.068	23.29	24.00	1.178	0.080	/
	State3		Right Edge	10	24075	837.5	1	Low	-0.05	0.120	23.29	24.00	1.178	0.141	/
	State3		Bottom Edge	10	24075	837.5	1	Low	-0.02	0.181	23.29	24.00	1.178	0.213	/
	State3		Front Side	10	24075	837.5	36	Low	-0.13	0.173	23.12	24.00	1.225	0.212	/
	State3		Back Side	10	24075	837.5	36	Low	-0.12	0.274	23.12	24.00	1.225	0.336	/
	State3		Left Edge	10	24075	837.5	36	Low	-0.06	0.083	23.12	24.00	1.225	0.102	/
	State3		Right Edge	10	24075	837.5	36	Low	0.16	0.147	23.12	24.00	1.225	0.180	/
	State3		Bottom Edge	10	24075	837.5	36	Low	0.13	0.243	23.12	24.00	1.225	0.298	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.18 LTE Band 26 (15MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.1	State2	QPSK	Left Cheek	0	26865	831.5	1	Mid	-0.03	0.434	21.29	21.50	1.050	0.456	/
	State2		Left Tilt	0	26865	831.5	1	Mid	0.14	0.402	21.29	21.50	1.050	0.422	/
	State2		Right Cheek	0	26865	831.5	1	Mid	0.12	0.676	21.29	21.50	1.050	0.710	56#
	State2		Right Tilt	0	26865	831.5	1	Mid	-0.14	0.592	21.29	21.50	1.050	0.622	/
	State2		Left Cheek	0	26865	831.5	36	Mid	0.10	0.426	21.25	21.50	1.059	0.451	/
	State2		Left Tilt	0	26865	831.5	36	Mid	-0.15	0.390	21.25	21.50	1.059	0.413	/
	State2		Right Cheek	0	26865	831.5	36	Mid	0.08	0.635	21.25	21.50	1.059	0.672	/
	State2		Right Tilt	0	26865	831.5	36	Mid	-0.14	0.579	21.25	21.50	1.059	0.613	/
Ant.1	State4	QPSK	Left Cheek	0	26865	831.5	1	Mid	-0.09	0.344	20.32	20.50	1.042	0.358	/
	State4		Left Tilt	0	26865	831.5	1	Mid	-0.08	0.316	20.32	20.50	1.042	0.329	/
	State4		Right Cheek	0	26865	831.5	1	Mid	-0.07	0.526	20.32	20.50	1.042	0.548	/
	State4		Right Tilt	0	26865	831.5	1	Mid	0.01	0.478	20.32	20.50	1.042	0.498	/
	State4		Left Cheek	0	26865	831.5	36	Mid	0.15	0.326	20.39	20.50	1.026	0.334	/
	State4		Left Tilt	0	26865	831.5	36	Mid	0.05	0.301	20.39	20.50	1.026	0.309	/
	State4		Right Cheek	0	26865	831.5	36	Mid	-0.10	0.512	20.39	20.50	1.026	0.525	/
	State4		Right Tilt	0	26865	831.5	36	Mid	0.05	0.431	20.39	20.50	1.026	0.442	/
Ant.0	State2&4	QPSK	Left Cheek	0	26765	821.5	1	Low	0.07	0.174	24.84	25.00	1.038	0.181	/
	State2&4		Left Tilt	0	26765	821.5	1	Low	0.12	0.094	24.84	25.00	1.038	0.098	/
	State2&4		Right Cheek	0	26765	821.5	1	Low	-0.04	0.152	24.84	25.00	1.038	0.158	/
	State2&4		Right Tilt	0	26765	821.5	1	Low	0.05	0.072	24.84	25.00	1.038	0.075	/
	State2&4		Left Cheek	0	26765	821.5	36	Low	0.16	0.154	23.91	24.00	1.021	0.157	/
	State2&4		Left Tilt	0	26765	821.5	36	Low	-0.11	0.078	23.91	24.00	1.021	0.080	/
	State2&4		Right Cheek	0	26765	821.5	36	Low	0.15	0.128	23.91	24.00	1.021	0.131	/
	State2&4		Right Tilt	0	26765	821.5	36	Low	0.16	0.064	23.91	24.00	1.021	0.065	/
Body-worn															
Ant.1	State1	QPSK	Front Side	15	26865	831.5	1	High	-0.14	0.164	24.31	25.00	1.172	0.192	/
	State1		Back Side	15	26865	831.5	1	High	0.02	0.198	24.31	25.00	1.172	0.232	57#
	State1		Front Side	15	26865	831.5	36	Low	-0.07	0.134	23.64	24.00	1.086	0.146	/
	State1		Back Side	15	26865	831.5	36	Low	-0.04	0.165	23.64	24.00	1.086	0.179	/
Ant.1	State3	QPSK	Front Side	15	26965	841.5	1	Mid	-0.01	0.116	23.38	23.50	1.028	0.119	/
	State3		Back Side	15	26965	841.5	1	Mid	0.14	0.135	23.38	23.50	1.028	0.139	/
	State3		Front Side	15	26965	841.5	36	Mid	0.14	0.112	23.46	23.50	1.009	0.113	/
	State3		Back Side	15	26965	841.5	36	Mid	0.08	0.129	23.46	23.50	1.009	0.130	/
Ant.0	State1	QPSK	Front Side	15	26865	831.5	1	Mid	0.01	0.095	24.20	24.50	1.072	0.102	/
	State1		Back Side	15	26865	831.5	1	Mid	-0.15	0.117	24.20	24.50	1.072	0.125	/
	State1		Front Side	15	26765	821.5	36	Low	0.05	0.089	23.91	24.00	1.021	0.091	/

	State1		Back Side	15	26765	821.5	36	Low	0.01	0.102	23.91	24.00	1.021	0.104	/
Ant.0	State3	QPSK	Front Side	15	26765	821.5	1	Mid	0.03	0.075	22.78	23.50	1.180	0.089	/
	State3		Back Side	15	26765	821.5	1	Mid	-0.06	0.092	22.78	23.50	1.180	0.109	/
	State3		Front Side	15	26765	821.5	36	Mid	-0.15	0.064	22.63	23.50	1.222	0.078	/
	State3		Back Side	15	26765	821.5	36	Mid	0.02	0.085	22.63	23.50	1.222	0.104	/
	State3														
Hotspot															
Ant.1	State3	QPSK	Front Side	10	26965	841.5	1	Mid	0.10	0.190	23.38	23.50	1.028	0.195	/
	State3		Back Side	10	26965	841.5	1	Mid	-0.02	0.316	23.38	23.50	1.028	0.325	58#
	State3		Left Edge	10	26965	841.5	1	Mid	0.09	0.108	23.38	23.50	1.028	0.111	/
	State3		Right Edge	10	26965	841.5	1	Mid	-0.10	0.080	23.38	23.50	1.028	0.082	/
	State3		Top Edge	10	26965	841.5	1	Mid	0.00	0.244	23.38	23.50	1.028	0.251	/
	State3		Front Side	10	26965	841.5	36	Mid	-0.09	0.201	23.46	23.50	1.009	0.203	/
	State3		Back Side	10	26965	841.5	36	Mid	0.06	0.310	23.46	23.50	1.009	0.313	/
	State3		Left Edge	10	26965	841.5	36	Mid	0.16	0.111	23.46	23.50	1.009	0.112	/
	State3		Right Edge	10	26965	841.5	36	Mid	-0.04	0.079	23.46	23.50	1.009	0.080	/
	State3		Top Edge	10	26965	841.5	36	Mid	0.03	0.264	23.46	23.50	1.009	0.266	/
	State3														
Ant.0	State3	QPSK	Front Side	10	26765	821.5	1	Mid	-0.07	0.130	22.78	23.50	1.180	0.153	/
	State3		Back Side	10	26765	821.5	1	Mid	0.02	0.233	22.78	23.50	1.180	0.275	/
	State3		Left Edge	10	26765	821.5	1	Mid	0.14	0.062	22.78	23.50	1.180	0.073	/
	State3		Right Edge	10	26765	821.5	1	Mid	0.09	0.114	22.78	23.50	1.180	0.135	/
	State3		Bottom Edge	10	26765	821.5	1	Mid	0.07	0.181	22.78	23.50	1.180	0.214	/
	State3		Front Side	10	26765	821.5	36	Mid	-0.11	0.138	22.63	23.50	1.222	0.169	/
	State3		Back Side	10	26765	821.5	36	Mid	0.15	0.242	22.63	23.50	1.222	0.296	/
	State3		Left Edge	10	26765	821.5	36	Mid	0.02	0.068	22.63	23.50	1.222	0.083	/
	State3		Right Edge	10	26765	821.5	36	Mid	-0.13	0.123	22.63	23.50	1.222	0.150	/
	State3		Bottom Edge	10	26765	821.5	36	Mid	0.08	0.196	22.63	23.50	1.222	0.240	/
	State3														
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.19 LTE Band 28 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.1	State2&4	QPSK	Left Cheek	0	27460	728.0	1	Low	0.14	0.359	22.22	22.50	1.067	0.383	/
	State2&4		Left Tilt	0	27460	728.0	1	Low	-0.08	0.322	22.22	22.50	1.067	0.344	/
	State2&4		Right Cheek	0	27460	728.0	1	Low	-0.03	0.652	22.22	22.50	1.067	0.696	/
	State2&4		Right Tilt	0	27460	728.0	1	Low	-0.13	0.504	22.22	22.50	1.067	0.538	/
	State2&4		Left Cheek	0	27460	728.0	50	Low	-0.06	0.364	22.13	22.50	1.089	0.396	/
	State2&4		Left Tilt	0	27460	728.0	50	Low	0.10	0.336	22.13	22.50	1.089	0.366	/
	State2&4		Right Cheek	0	27460	728.0	50	Low	0.06	0.734	22.13	22.50	1.089	0.799	59#
	State2&4		Right Tilt	0	27460	728.0	50	Low	0.15	0.542	22.13	22.50	1.089	0.590	/
Ant.0	State2&4	QPSK	Left Cheek	0	27310	713.0	1	Low	0.14	0.135	24.42	25.00	1.143	0.154	/
	State2&4		Left Tilt	0	27310	713.0	1	Low	-0.10	0.078	24.42	25.00	1.143	0.089	/
	State2&4		Right Cheek	0	27310	713.0	1	Low	0.05	0.125	24.42	25.00	1.143	0.143	/
	State2&4		Right Tilt	0	27310	713.0	1	Low	0.03	0.063	24.42	25.00	1.143	0.072	/
	State2&4		Left Cheek	0	27310	713.0	50	Mid	0.00	0.138	23.41	24.00	1.146	0.158	/
	State2&4		Left Tilt	0	27310	713.0	50	Mid	0.13	0.079	23.41	24.00	1.146	0.091	/
	State2&4		Right Cheek	0	27310	713.0	50	Mid	0.08	0.120	23.41	24.00	1.146	0.138	/
	State2&4		Right Tilt	0	27310	713.0	50	Mid	0.13	0.070	23.41	24.00	1.146	0.080	/
Body-worn															
Ant.1	State1&3	QPSK	Front Side	15	27460	728.0	1	Mid	0.16	0.102	24.64	25.00	1.086	0.111	/
	State1&3		Back Side	15	27460	728.0	1	Mid	-0.08	0.137	24.64	25.00	1.086	0.149	60#
	State1&3		Front Side	15	27460	728.0	50	Mid	0.05	0.111	23.75	24.00	1.059	0.118	/
	State1&3		Back Side	15	27460	728.0	50	Mid	-0.03	0.125	23.75	24.00	1.059	0.132	/
Ant.0	State1&3	QPSK	Front Side	15	27310	713.0	1	Low	-0.11	0.025	24.42	25.00	1.143	0.029	/
	State1&3		Back Side	15	27310	713.0	1	Low	-0.07	0.036	24.42	25.00	1.143	0.041	/
	State1&3		Front Side	15	27310	713.0	50	Mid	0.10	0.034	23.41	24.00	1.146	0.039	/
	State1&3		Back Side	15	27310	713.0	50	Mid	0.16	0.046	23.41	24.00	1.146	0.053	/
Hotspot															
Ant.1	State3	QPSK	Front Side	10	27460	728.0	1	Mid	-0.15	0.142	24.64	25.00	1.086	0.154	/
	State3		Back Side	10	27460	728.0	1	Mid	-0.04	0.213	24.64	25.00	1.086	0.231	61#
	State3		Left Edge	10	27460	728.0	1	Mid	-0.06	0.136	24.64	25.00	1.086	0.148	/
	State3		Right Edge	10	27460	728.0	1	Mid	0.15	0.172	24.64	25.00	1.086	0.187	/
	State3		Top Edge	10	27460	728.0	1	Mid	0.11	0.189	24.64	25.00	1.086	0.205	/
	State3		Front Side	10	27460	728.0	50	Mid	0.14	0.162	23.75	24.00	1.059	0.172	/
	State3		Back Side	10	27460	728.0	50	Mid	-0.01	0.189	23.75	24.00	1.059	0.200	/
	State3		Left Edge	10	27460	728.0	50	Mid	-0.03	0.162	23.75	24.00	1.059	0.172	/
	State3		Right Edge	10	27460	728.0	50	Mid	0.09	0.178	23.75	24.00	1.059	0.189	/
	State3		Top Edge	10	27460	728.0	50	Mid	0.09	0.182	23.75	24.00	1.059	0.193	/

Ant.0	State3	QPSK	Front Side	10	27310	713.0	1	Low	0.14	0.034	24.42	25.00	1.143	0.039	/
	State3		Back Side	10	27310	713.0	1	Low	-0.10	0.048	24.42	25.00	1.143	0.055	/
	State3		Left Edge	10	27310	713.0	1	Low	0.01	0.005	24.42	25.00	1.143	0.006	/
	State3		Right Edge	10	27310	713.0	1	Low	-0.09	0.046	24.42	25.00	1.143	0.053	/
	State3		Bottom Edge	10	27310	713.0	1	Low	0.11	0.019	24.42	25.00	1.143	0.022	/
	State3		Front Side	10	27310	713.0	50	Mid	0.06	0.029	23.41	24.00	1.146	0.033	/
	State3		Back Side	10	27310	713.0	50	Mid	0.14	0.041	23.41	24.00	1.146	0.047	/
	State3		Left Edge	10	27310	713.0	50	Mid	0.10	0.005	23.41	24.00	1.146	0.006	/
	State3		Right Edge	10	27310	713.0	50	Mid	0.08	0.041	23.41	24.00	1.146	0.047	/
	State3		Bottom Edge	10	27310	713.0	50	Mid	0.09	0.018	23.41	24.00	1.146	0.021	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.20 LTE Band 66 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.1	State2&4	QPSK	Left Cheek	0	132322	1745	1	Mid	0.00	0.452	18.48	18.50	1.005	0.454	/
	State2&4		Left Tilt	0	132322	1745	1	Mid	0.04	0.483	18.48	18.50	1.005	0.485	/
	State2&4		Right Cheek	0	132322	1745	1	Mid	-0.04	0.864	18.48	18.50	1.005	0.868	/
	State2&4		Right Tilt	0	132572	1770	1	Mid	-0.04	0.775	18.48	18.50	1.005	0.779	/
	State2&4		Left Cheek	0	132322	1745	50	Low	0.16	0.436	18.43	18.50	1.016	0.443	/
	State2&4		Left Tilt	0	132322	1745	50	Low	-0.07	0.521	18.43	18.50	1.016	0.529	/
	State2&4		Right Cheek	0	132322	1745	50	Low	-0.10	0.935	18.43	18.50	1.016	0.950	/
	State2&4		Right Tilt	0	132322	1745	50	Low	0.15	0.897	18.43	18.50	1.016	0.911	/
	State2&4		Right Cheek	0	132072	1720	1	Mid	-0.15	0.982	18.45	18.50	1.012	0.994	/
	State2&4		Right Cheek	0	132572	1770	1	Low	0.02	1.000	18.32	18.50	1.042	1.042	62#
	State2&4		Right Cheek	0	132072	1720	50	Low	0.00	0.936	18.23	18.50	1.064	0.996	/
	State2&4		Right Cheek	0	132572	1770	50	Low	-0.11	0.948	18.43	18.50	1.016	0.963	/
	State2&4		Right Cheek	0	132322	1745	100	Low	0.16	0.911	18.28	18.50	1.052	0.958	/
Ant.0	State2&4	QPSK	Left Cheek	0	132072	1720	1	Mid	0.08	0.172	23.54	25.00	1.400	0.241	/
	State2&4		Left Tilt	0	132072	1720	1	Mid	-0.06	0.062	23.54	25.00	1.400	0.087	/
	State2&4		Right Cheek	0	132072	1720	1	Mid	-0.04	0.097	23.54	25.00	1.400	0.136	/
	State2&4		Right Tilt	0	132072	1720	1	Mid	0.05	0.066	23.54	25.00	1.400	0.092	/
	State2&4		Left Cheek	0	132322	1745	50	Low	0.08	0.188	22.56	24.00	1.393	0.262	/
	State2&4		Left Tilt	0	132322	1745	50	Low	0.02	0.068	22.56	24.00	1.393	0.095	/
	State2&4		Right Cheek	0	132322	1745	50	Low	0.14	0.110	22.56	24.00	1.393	0.153	/
	State2&4		Right Tilt	0	132322	1745	50	Low	0.05	0.075	22.56	24.00	1.393	0.104	/
Body-worn															
Ant.1	State1	QPSK	Front Side	15	132572	1770	1	Mid	-0.12	0.168	22.95	23.00	1.012	0.170	/
	State1		Back Side	15	132572	1770	1	Mid	-0.06	0.268	22.95	23.00	1.012	0.271	63#
	State1		Front Side	15	132572	1770	50	Low	-0.03	0.165	22.82	23.00	1.042	0.172	/
	State1		Back Side	15	132572	1770	50	Low	-0.03	0.234	22.82	23.00	1.042	0.244	/
Ant.1	State3	QPSK	Front Side	15	132072	1720	1	Mid	-0.05	0.111	20.82	21.00	1.042	0.116	/
	State3		Back Side	15	132072	1720	1	Mid	-0.14	0.156	20.82	21.00	1.042	0.163	/
	State3		Front Side	15	132072	1720	50	Low	0.10	0.102	20.76	21.00	1.057	0.108	/
	State3		Back Side	15	132072	1720	50	Low	0.11	0.142	20.76	21.00	1.057	0.150	/
Ant.0	State1&3	QPSK	Front Side	15	132072	1720	1	Mid	-0.12	0.089	20.75	21.50	1.189	0.106	/
	State1&3		Back Side	15	132072	1720	1	Mid	-0.12	0.134	20.75	21.50	1.189	0.159	/
	State1&3		Front Side	15	132072	1720	50	Low	0.09	0.078	20.74	21.50	1.191	0.093	/
	State1&3		Back Side	15	132072	1720	50	Low	-0.11	0.125	20.74	21.50	1.191	0.149	/
Hotspot															
Ant.1	State3	QPSK	Front Side	10	132072	1720	1	Mid	0.09	0.315	20.82	21.00	1.042	0.328	/

	State3		Back Side	10	132072	1720	1	Mid	0.09	0.380	20.82	21.00	1.042	0.396	/
	State3		Left Edge	10	132072	1720	1	Mid	-0.06	0.034	20.82	21.00	1.042	0.035	/
	State3		Right Edge	10	132072	1720	1	Mid	0.08	0.083	20.82	21.00	1.042	0.086	/
	State3		Top Edge	10	132072	1720	1	Mid	0.01	0.367	20.82	21.00	1.042	0.382	/
	State3		Front Side	10	132072	1720	50	Low	-0.10	0.302	20.76	21.00	1.057	0.319	/
	State3		Back Side	10	132072	1720	50	Low	-0.11	0.372	20.76	21.00	1.057	0.393	/
	State3		Left Edge	10	132072	1720	50	Low	0.08	0.350	20.76	21.00	1.057	0.370	/
	State3		Right Edge	10	132072	1720	50	Low	0.10	0.079	20.76	21.00	1.057	0.084	/
	State3		Top Edge	10	132072	1720	50	Low	0.07	0.358	20.76	21.00	1.057	0.378	/
Ant.0	State3	QPSK	Front Side	10	132072	1720	1	Mid	-0.13	0.293	20.75	21.50	1.189	0.348	/
	State3		Back Side	10	132072	1720	1	Mid	-0.06	0.421	20.75	21.50	1.189	0.501	/
	State3		Left Edge	10	132072	1720	1	Mid	0.12	0.111	20.75	21.50	1.189	0.132	/
	State3		Right Edge	10	132072	1720	1	Mid	-0.03	0.068	20.75	21.50	1.189	0.081	/
	State3		Bottom Edge	10	132072	1720	1	Mid	0.03	0.748	20.75	21.50	1.189	0.889	/
	State3		Front Side	10	132072	1720	50	Low	-0.08	0.301	20.74	21.50	1.191	0.358	/
	State3		Back Side	10	132072	1720	50	Low	-0.09	0.411	20.74	21.50	1.191	0.490	/
	State3		Left Edge	10	132072	1720	50	Low	0.13	0.102	20.74	21.50	1.191	0.121	/
	State3		Right Edge	10	132072	1720	50	Low	-0.12	0.071	20.74	21.50	1.191	0.085	/
	State3		Bottom Edge	10	132072	1720	50	Low	0.14	0.732	20.74	21.50	1.191	0.872	/
	State3		Bottom Edge	10	132322	1745	1	Low	0.11	0.754	20.59	21.50	1.233	0.930	/
	State3		Bottom Edge	10	132572	1770	1	Mid	-0.02	0.777	20.54	21.50	1.247	0.969	64#
	State3		Bottom Edge	10	132322	1745	50	Low	0.14	0.715	20.36	21.50	1.300	0.930	/
	State3		Bottom Edge	10	132572	1770	50	High	-0.09	0.711	20.29	21.50	1.321	0.939	/
	State3		Bottom Edge	10	132072	1720	100	Low	-0.13	0.725	20.77	21.50	1.183	0.858	/

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

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
Specific															
Ant.0	State1&3	QPSK	Bottom Edge	0	132072	1720	1	Mid	-0.06	1.720	20.75	21.50	1.189	2.045	/
	State1&3		Bottom Edge	0	132072	1720	50	Low	-0.14	1.710	20.74	21.50	1.191	2.037	/
	State1&3		Bottom Edge	0	132322	1745	1	Low	0.09	1.650	20.59	21.50	1.233	2.034	/
	State1&3		Bottom Edge	0	132572	1770	1	Low	-0.15	1.760	20.54	21.50	1.247	2.195	65#
	State1&3		Bottom Edge	0	132322	1745	50	Low	-0.12	1.620	20.36	21.50	1.300	2.106	/
	State1&3		Bottom Edge	0	132572	1770	50	Low	-0.04	1.520	20.29	21.50	1.321	2.008	/
	State1&3		Bottom Edge	0	132072	1720	100	Low	-0.03	1.490	20.77	21.50	1.183	1.763	/

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

10.21 LTE Band 38 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.1	State2	QPSK	Left Cheek	0	38000	2595	1	Mid	0.11	0.029	14.10	14.50	1.096	0.032	/
	State2		Left Tilt	0	38000	2595	1	Mid	0.15	0.025	14.10	14.50	1.096	0.027	/
	State2		Right Cheek	0	38000	2595	1	Mid	-0.01	0.092	14.10	14.50	1.096	0.101	66#
	State2		Right Tilt	0	38000	2595	1	Mid	0.07	0.074	14.10	14.50	1.096	0.081	/
	State2		Left Cheek	0	38000	2595	50	High	0.05	0.023	14.35	14.50	1.035	0.024	/
	State2		Left Tilt	0	38000	2595	50	High	0.06	0.022	14.35	14.50	1.035	0.023	/
	State2		Right Cheek	0	38000	2595	50	High	-0.04	0.075	14.35	14.50	1.035	0.078	/
	State2		Right Tilt	0	38000	2595	50	High	0.07	0.061	14.35	14.50	1.035	0.063	/
Ant.1	State4	QPSK	Left Cheek	0	38000	2595	1	Mid	-0.09	0.023	13.55	14.00	1.109	0.026	/
	State4		Left Tilt	0	38000	2595	1	Mid	-0.09	0.020	13.55	14.00	1.109	0.022	/
	State4		Right Cheek	0	38000	2595	1	Mid	0.07	0.085	13.55	14.00	1.109	0.094	/
	State4		Right Tilt	0	38000	2595	1	Mid	-0.02	0.064	13.55	14.00	1.109	0.071	/
	State4		Left Cheek	0	38000	2595	50	Low	-0.08	0.025	13.90	14.00	1.023	0.026	/
	State4		Left Tilt	0	38000	2595	50	Low	-0.03	0.019	13.90	14.00	1.023	0.019	/
	State4		Right Cheek	0	38000	2595	50	Low	-0.15	0.068	13.90	14.00	1.023	0.070	/
	State4		Right Tilt	0	38000	2595	50	Low	0.11	0.059	13.90	14.00	1.023	0.060	/
Ant.0	State2&4	QPSK	Left Cheek	0	37850	2580	1	High	0.07	0.056	23.96	25.00	1.271	0.071	/
	State2&4		Left Tilt	0	37850	2580	1	High	0.03	0.036	23.96	25.00	1.271	0.046	/
	State2&4		Right Cheek	0	37850	2580	1	High	-0.14	0.061	23.96	25.00	1.271	0.078	/
	State2&4		Right Tilt	0	37850	2580	1	High	0.08	0.040	23.96	25.00	1.271	0.051	/
	State2&4		Left Cheek	0	37850	2580	50	Mid	0.11	0.059	23.10	24.00	1.230	0.073	/
	State2&4		Left Tilt	0	37850	2580	50	Mid	0.08	0.030	23.10	24.00	1.230	0.037	/
	State2&4		Right Cheek	0	37850	2580	50	Mid	0.10	0.054	23.10	24.00	1.230	0.066	/
	State2&4		Right Tilt	0	37850	2580	50	Mid	0.15	0.032	23.10	24.00	1.230	0.039	/
Body-worn															
Ant.1	State1	QPSK	Front Side	15	38150	2610	1	Low	-0.08	0.165	16.80	17.00	1.047	0.173	/
	State1		Back Side	15	38150	2610	1	Low	0.01	0.224	16.80	17.00	1.047	0.235	/
	State1		Front Side	15	38000	2595	50	Mid	-0.01	0.158	16.94	17.00	1.014	0.160	/
	State1		Back Side	15	38000	2595	50	Mid	-0.02	0.201	16.94	17.00	1.014	0.204	/
Ant.1	State3	QPSK	Front Side	15	38000	2595	1	Mid	0.01	0.068	13.20	13.50	1.072	0.073	/
	State3		Back Side	15	38000	2595	1	Mid	0.11	0.123	13.20	13.50	1.072	0.132	/
	State3		Front Side	15	38150	2610	50	Low	0.15	0.075	13.43	13.50	1.016	0.076	/
	State3		Back Side	15	38150	2610	50	Low	0.06	0.111	13.43	13.50	1.016	0.113	/
Ant.0	State1	QPSK	Front Side	15	38150	2610	1	Low	0.03	0.229	24.18	24.50	1.076	0.246	67#
	State1		Back Side	15	38150	2610	1	Low	-0.14	0.202	24.18	24.50	1.076	0.217	/
	State1		Front Side	15	38000	2595	50	Mid	-0.07	0.194	23.65	24.00	1.084	0.210	/

	State1		Back Side	15	38000	2595	50	Mid	0.12	0.177	23.65	24.00	1.084	0.192	/
Ant.0	State3	QPSK	Front Side	15	38000	2595	1	Mid	-0.01	0.127	21.69	22.00	1.074	0.136	/
	State3		Back Side	15	38000	2595	1	Mid	0.13	0.114	21.69	22.00	1.074	0.122	/
	State3		Front Side	15	38150	2610	50	Low	-0.14	0.109	21.72	22.00	1.067	0.116	/
	State3		Back Side	15	38150	2610	50	Low	-0.07	0.100	21.72	22.00	1.067	0.107	/
	State3														
Hotspot															
Ant.1	State3	QPSK	Front Side	10	38000	2595	1	Mid	0.04	0.018	13.20	13.50	1.072	0.019	/
	State3		Back Side	10	38000	2595	1	Mid	-0.03	0.027	13.20	13.50	1.072	0.029	/
	State3		Left Edge	10	38000	2595	1	Mid	-0.07	0.000	13.20	13.50	1.072	0.000	/
	State3		Right Edge	10	38000	2595	1	Mid	-0.06	0.021	13.20	13.50	1.072	0.023	/
	State3		Top Edge	10	38000	2595	1	Mid	0.06	0.022	13.20	13.50	1.072	0.024	/
	State3		Front Side	10	38150	2610	50	Low	-0.09	0.018	13.43	13.50	1.016	0.018	/
	State3		Back Side	10	38150	2610	50	Low	0.02	0.027	13.43	13.50	1.016	0.027	/
	State3		Left Edge	10	38150	2610	50	Low	-0.01	0.000	13.43	13.50	1.016	0.000	/
	State3		Right Edge	10	38150	2610	50	Low	0.07	0.021	13.43	13.50	1.016	0.021	/
	State3		Top Edge	10	38150	2610	50	Low	0.08	0.021	13.43	13.50	1.016	0.021	/
	Ant.0		State3	QPSK	Front Side	10	38000	2595	1	Mid	0.07	0.212	21.69	22.00	1.074
State3		Back Side	10		38000	2595	1	Mid	0.03	0.244	21.69	22.00	1.074	0.262	68#
State3		Left Edge	10		38000	2595	1	Mid	0.12	0.140	21.69	22.00	1.074	0.150	/
State3		Right Edge	10		38000	2595	1	Mid	0.04	0.056	21.69	22.00	1.074	0.060	/
State3		Bottom Edge	10		38000	2595	1	Mid	-0.13	0.146	21.69	22.00	1.074	0.157	/
State3		Front Side	10		38150	2610	50	Low	-0.12	0.180	21.72	22.00	1.067	0.192	/
State3		Back Side	10		38150	2610	50	Low	0.09	0.203	21.72	22.00	1.067	0.217	/
State3		Left Edge	10		38150	2610	50	Low	0.05	0.116	21.72	22.00	1.067	0.124	/
State3		Right Edge	10		38150	2610	50	Low	0.06	0.048	21.72	22.00	1.067	0.051	/
State3		Bottom Edge	10		38150	2610	50	Low	0.04	0.132	21.72	22.00	1.067	0.141	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.22 LTE Band 41 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.1	State2	QPSK	Left Cheek	0	40140	2545	1	Mid	-0.10	0.073	17.84	18.00	1.038	0.076	/
	State2		Left Tilt	0	40140	2545	1	Mid	0.02	0.063	17.84	18.00	1.038	0.065	/
	State2		Right Cheek	0	40140	2545	1	Mid	0.06	0.197	17.84	18.00	1.038	0.204	69#
	State2		Right Tilt	0	40140	2545	1	Mid	-0.03	0.144	17.84	18.00	1.038	0.149	/
	State2		Left Cheek	0	40140	2545	50	Low	-0.04	0.071	17.69	18.00	1.074	0.076	/
	State2		Left Tilt	0	40140	2545	50	Low	-0.08	0.062	17.69	18.00	1.074	0.067	/
	State2		Right Cheek	0	40140	2545	50	Low	0.05	0.186	17.69	18.00	1.074	0.200	/
	State2		Right Tilt	0	40140	2545	50	Low	-0.06	0.132	17.69	18.00	1.074	0.142	/
Ant.1	State4	QPSK	Left Cheek	0	40140	2545	1	Mid	-0.04	0.056	16.69	17.00	1.074	0.060	/
	State4		Left Tilt	0	40140	2545	1	Mid	0.05	0.049	16.69	17.00	1.074	0.053	/
	State4		Right Cheek	0	40140	2545	1	Mid	0.06	0.156	16.69	17.00	1.074	0.168	/
	State4		Right Tilt	0	40140	2545	1	Mid	0.07	0.112	16.69	17.00	1.074	0.120	/
	State4		Left Cheek	0	40140	2545	50	Low	0.11	0.054	16.75	17.00	1.059	0.057	/
	State4		Left Tilt	0	40140	2545	50	Low	-0.04	0.046	16.75	17.00	1.059	0.049	/
	State4		Right Cheek	0	40140	2545	50	Low	-0.13	0.142	16.75	17.00	1.059	0.150	/
	State4		Right Tilt	0	40140	2545	50	Low	-0.04	0.103	16.75	17.00	1.059	0.109	/
Ant.0	State2&4	QPSK	Left Cheek	0	40640	2595	1	Mid	0.05	0.065	24.54	25.00	1.112	0.072	/
	State2&4		Left Tilt	0	40640	2595	1	Mid	0.03	0.026	24.54	25.00	1.112	0.029	/
	State2&4		Right Cheek	0	40640	2595	1	Mid	0.03	0.060	24.54	25.00	1.112	0.067	/
	State2&4		Right Tilt	0	40640	2595	1	Mid	-0.13	0.020	24.54	25.00	1.112	0.022	/
	State2&4		Left Cheek	0	41140	2645	50	Low	-0.09	0.056	23.08	24.00	1.236	0.069	/
	State2&4		Left Tilt	0	41140	2645	50	Low	0.00	0.024	23.08	24.00	1.236	0.030	/
	State2&4		Right Cheek	0	41140	2645	50	Low	-0.03	0.056	23.08	24.00	1.236	0.069	/
	State2&4		Right Tilt	0	41140	2645	50	Low	-0.12	0.021	23.08	24.00	1.236	0.026	/
Body-worn															
Ant.1	State1	QPSK	Front Side	15	40140	2545	1	Mid	0.14	0.064	22.75	23.00	1.059	0.068	/
	State1		Back Side	15	40140	2545	1	Mid	0.00	0.082	22.75	23.00	1.059	0.087	/
	State1		Front Side	15	40640	2595	50	Mid	0.08	0.056	22.92	23.00	1.019	0.057	/
	State1		Back Side	15	40640	2595	50	Mid	0.06	0.075	22.92	23.00	1.019	0.076	/
Ant.1	State3	QPSK	Front Side	15	40140	2545	1	Mid	-0.03	0.037	19.14	19.50	1.086	0.040	/
	State3		Back Side	15	40140	2545	1	Mid	0.10	0.053	19.14	19.50	1.086	0.058	/
	State3		Front Side	15	40640	2595	50	Mid	0.05	0.029	19.21	19.50	1.069	0.031	/
	State3		Back Side	15	40640	2595	50	Mid	0.04	0.039	19.21	19.50	1.069	0.042	/
Ant.0	State1	QPSK	Front Side	15	40640	2595	1	Mid	-0.01	0.087	21.32	21.50	1.042	0.091	70#
	State1		Back Side	15	40640	2595	1	Mid	-0.07	0.065	21.32	21.50	1.042	0.068	/
	State1		Front Side	15	41140	2645	50	High	0.04	0.079	21.22	21.50	1.067	0.084	/

	State1		Back Side	15	41140	2645	50	High	0.12	0.058	21.22	21.50	1.067	0.062	/
Ant.0	State3	QPSK	Front Side	15	40640	2595	1	Mid	-0.09	0.045	17.92	18.00	1.019	0.046	/
	State3		Back Side	15	40640	2595	1	Mid	0.12	0.036	17.92	18.00	1.019	0.037	/
	State3		Front Side	15	40140	2545	50	Mid	0.07	0.041	18.00	18.00	1.000	0.041	/
	State3		Back Side	15	40140	2545	50	Mid	-0.11	0.035	18.00	18.00	1.000	0.035	/
	State3														
Hotspot															
Ant.1	State3	QPSK	Front Side	10	40140	2545	1	Mid	0.03	0.036	19.14	19.50	1.086	0.039	/
	State3		Back Side	10	40140	2545	1	Mid	0.03	0.063	19.14	19.50	1.086	0.068	/
	State3		Left Edge	10	40140	2545	1	Mid	0.05	0.000	19.14	19.50	1.086	0.000	/
	State3		Right Edge	10	40140	2545	1	Mid	-0.08	0.049	19.14	19.50	1.086	0.053	/
	State3		Top Edge	10	40140	2545	1	Mid	0.02	0.045	19.14	19.50	1.086	0.049	/
	State3		Front Side	10	40640	2595	50	Mid	0.01	0.036	19.21	19.50	1.069	0.038	/
	State3		Back Side	10	40640	2595	50	Mid	-0.06	0.061	19.21	19.50	1.069	0.065	/
	State3		Left Edge	10	40640	2595	50	Mid	-0.02	0.000	19.21	19.50	1.069	0.000	/
	State3		Right Edge	10	40640	2595	50	Mid	0.09	0.045	19.21	19.50	1.069	0.048	/
	State3		Top Edge	10	40640	2595	50	Mid	-0.07	0.041	19.21	19.50	1.069	0.044	/
	State3														
Ant.0	State3	QPSK	Front Side	10	40640	2595	1	Mid	-0.15	0.089	17.92	18.00	1.019	0.091	/
	State3		Back Side	10	40640	2595	1	Mid	0.06	0.101	17.92	18.00	1.019	0.103	71#
	State3		Left Edge	10	40640	2595	1	Mid	-0.05	0.062	17.92	18.00	1.019	0.063	/
	State3		Right Edge	10	40640	2595	1	Mid	-0.07	0.029	17.92	18.00	1.019	0.030	/
	State3		Bottom Edge	10	40640	2595	1	Mid	-0.02	0.074	17.92	18.00	1.019	0.075	/
	State3		Front Side	10	40640	2595	50	Mid	0.02	0.078	18.00	18.00	1.000	0.078	/
	State3		Back Side	10	40640	2595	50	Mid	0.08	0.095	18.00	18.00	1.000	0.095	/
	State3		Left Edge	10	40640	2595	50	Mid	-0.11	0.062	18.00	18.00	1.000	0.062	/
	State3		Right Edge	10	40640	2595	50	Mid	-0.15	0.024	18.00	18.00	1.000	0.024	/
	State3		Bottom Edge	10	40640	2595	50	Mid	-0.07	0.071	18.00	18.00	1.000	0.071	/
	State3														
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.23 WIFI 2.4GHZ

Antenna	Power Reduction	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.3	Level1	802.11 b	Left Cheek	0	6	2437	-0.02	0.803	16.09	17.50	1.384	98.80	1.012	1.125	72#
	Level1	802.11 b	Left Tilt	0	6	2437	0.07	0.568	16.09	17.50	1.384	98.80	1.012	0.796	/
	Level1	802.11 b	Right Cheek	0	6	2437	-0.06	0.322	16.09	17.50	1.384	98.80	1.012	0.451	/
	Level1	802.11 b	Right Tilt	0	6	2437	-0.15	0.365	16.09	17.50	1.384	98.80	1.012	0.511	/
	Level1	802.11 b	Left Cheek	0	1	2412	-0.07	0.500	15.60	17.50	1.549	98.80	1.012	0.784	/
	Level1	802.11 b	Left Cheek	0	11	2462	0.03	0.501	15.96	17.50	1.426	98.80	1.012	0.723	/
Ant.3	Level2	802.11 b	Left Cheek	0	6	2437	-0.08	0.385	13.00	14.50	1.413	98.80	1.012	0.551	/
	Level2	802.11 b	Left Tilt	0	6	2437	0.00	0.271	13.00	14.50	1.413	98.80	1.012	0.388	/
	Level2	802.11 b	Right Cheek	0	6	2437	0.06	0.153	13.00	14.50	1.413	98.80	1.012	0.219	/
	Level2	802.11 b	Right Tilt	0	6	2437	-0.03	0.176	13.00	14.50	1.413	98.80	1.012	0.252	/
Body-Wron															
Ant.3	Level3	802.11 b	Front Side	15	6	2437	0.00	0.185	18.56	20.00	1.393	98.80	1.012	0.261	/
	Level3	802.11 b	Back Side	15	6	2437	-0.15	0.257	18.56	20.00	1.393	98.80	1.012	0.362	73#
Ant.3	Level4	802.11 b	Front Side	15	6	2437	0.10	0.163	18.07	19.50	1.390	98.80	1.012	0.229	/
	Level4	802.11 b	Back Side	15	6	2437	-0.03	0.197	18.07	19.50	1.390	98.80	1.012	0.277	/
Hotspot															
Ant.3	Level4	802.11 b	Front Side	10	6	2437	-0.07	0.416	18.07	19.50	1.390	98.80	1.012	0.585	/
	Level4	802.11 b	Back Side	10	6	2437	0.03	0.552	18.07	19.50	1.390	98.80	1.012	0.776	74#
	Level4	802.11 b	Left Edge	10	6	2437	-0.13	0.260	18.07	19.50	1.390	98.80	1.012	0.366	/
	Level4	802.11 b	Top Edge	10	6	2437	0.14	0.288	18.07	19.50	1.390	98.80	1.012	0.405	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	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.
Specific															
Ant.3	Level3	802.11 b	Front Side	0	6	2437	0.13	0.926	18.56	20.00	1.393	98.80	1.012	1.305	/
	Level3	802.11 b	Back Side	0	6	2437	-0.02	1.290	18.56	20.00	1.393	98.80	1.012	1.819	75#
	Level3	802.11 b	Left Edge	0	6	2437	0.11	0.472	18.56	20.00	1.393	98.80	1.012	0.665	/
	Level3	802.11 b	Top Edge	0	6	2437	0.15	0.854	18.56	20.00	1.393	98.80	1.012	1.204	/
Ant.3	Level4	802.11 b	Front Side	0	6	2437	0.05	0.821	18.07	19.50	1.390	98.80	1.012	1.155	/
	Level4	802.11 b	Back Side	0	6	2437	0.14	1.100	18.07	19.50	1.390	98.80	1.012	1.547	/
	Level4	802.11 b	Left Edge	0	6	2437	-0.04	0.418	18.07	19.50	1.390	98.80	1.012	0.588	/
	Level4	802.11 b	Top Edge	0	6	2437	0.11	0.760	18.07	19.50	1.390	98.80	1.012	1.069	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.24 WIFI 5GHz

Antenna	Band	Power Reduction	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.3	5.3G	Level1	802.11 n (HT40)	Left Cheek	0	54	5270	0.18	0.837	13.83	14.50	1.167	94.30	1.060	1.035	76#
	5.3G	Level1	802.11 n (HT40)	Left Tilt	0	54	5270	-0.12	0.528	13.83	14.50	1.167	94.30	1.060	0.653	/
	5.3G	Level1	802.11 n (HT40)	Right Cheek	0	54	5270	0.05	0.184	13.83	14.50	1.167	94.30	1.060	0.228	/
	5.3G	Level1	802.11 n (HT40)	Right Tilt	0	54	5270	-0.01	0.193	13.83	14.50	1.167	94.30	1.060	0.239	/
	5.3G	Level1	802.11 n (HT40)	Left Cheek	0	62	5310	-0.01	0.385	11.55	13.50	1.567	94.30	1.060	0.639	/
Ant.3	5.3G	Level2	802.11 ac (VHT80)	Left Cheek	0	58	5290	-0.02	0.331	10.19	11.50	1.352	89.50	1.117	0.500	/
	5.3G	Level2	802.11 ac (VHT80)	Left Tilt	0	58	5290	0.05	0.206	10.19	11.50	1.352	89.50	1.117	0.311	/
	5.3G	Level2	802.11 ac (VHT80)	Right Cheek	0	58	5290	0.03	0.073	10.19	11.50	1.352	89.50	1.117	0.110	/
	5.3G	Level2	802.11 ac (VHT80)	Right Tilt	0	58	5290	0.03	0.075	10.19	11.50	1.352	89.50	1.117	0.113	/
Ant.3	5.6G	Level1	802.11 ac (VHT80)	Left Cheek	0	122	5610	0.07	0.712	13.94	14.50	1.138	89.50	1.117	0.905	77#
	5.6G	Level1	802.11 ac (VHT80)	Left Tilt	0	122	5610	0.07	0.500	13.94	14.50	1.138	89.50	1.117	0.636	/
	5.6G	Level1	802.11 ac (VHT80)	Right Cheek	0	122	5610	0.09	0.171	13.94	14.50	1.138	89.50	1.117	0.217	/
	5.6G	Level1	802.11 ac (VHT80)	Right Tilt	0	122	5610	-0.09	0.192	13.94	14.50	1.138	89.50	1.117	0.244	/
	5.6G	Level1	802.11 ac (VHT80)	Left Cheek	0	106	5530	-0.07	0.376	10.90	12.50	1.445	89.50	1.117	0.607	/
Ant.3	5.6G	Level2	802.11 ac (VHT80)	Left Cheek	0	122	5610	0.10	0.343	10.83	11.50	1.167	89.50	1.117	0.447	/
	5.6G	Level2	802.11 ac (VHT80)	Left Tilt	0	122	5610	0.01	0.242	10.83	11.50	1.167	89.50	1.117	0.315	/
	5.6G	Level2	802.11 ac (VHT80)	Right Cheek	0	122	5610	-0.15	0.082	10.83	11.50	1.167	89.50	1.117	0.107	/
	5.6G	Level2	802.11 ac (VHT80)	Right Tilt	0	122	5610	0.04	0.095	10.83	11.50	1.167	89.50	1.117	0.124	/
Ant.3	5.8G	Level1	802.11 ac (VHT80)	Left Cheek	0	155	5775	0.09	0.521	13.32	14.50	1.312	89.50	1.117	0.764	78#
	5.8G	Level1	802.11 ac (VHT80)	Left Tilt	0	155	5775	0.07	0.414	13.32	14.50	1.312	89.50	1.117	0.607	/
	5.8G	Level1	802.11 ac (VHT80)	Right Cheek	0	155	5775	-0.14	0.226	13.32	14.50	1.312	89.50	1.117	0.331	/
	5.8G	Level1	802.11 ac (VHT80)	Right Tilt	0	155	5775	-0.15	0.253	13.32	14.50	1.312	89.50	1.117	0.371	/
Ant.3	5.8G	Level2	802.11 ac (VHT80)	Left Cheek	0	155	5775	0.15	0.260	10.27	11.50	1.327	89.50	1.117	0.385	/
	5.8G	Level2	802.11 ac (VHT80)	Left Tilt	0	155	5775	-0.05	0.211	10.27	11.50	1.327	89.50	1.117	0.313	/
	5.8G	Level2	802.11 ac (VHT80)	Right Cheek	0	155	5775	0.09	0.115	10.27	11.50	1.327	89.50	1.117	0.170	/
	5.8G	Level2	802.11 ac (VHT80)	Right Tilt	0	155	5775	0.11	0.130	10.27	11.50	1.327	89.50	1.117	0.193	/
Body-worn																
Ant.3	5.3G	Level3	802.11a	Front Side	15	52	5260	0.07	0.166	16.69	18.50	1.517	96.90	1.032	0.260	/
	5.3G	Level3	802.11a	Back Side	15	52	5260	0.04	0.331	16.69	18.50	1.517	96.90	1.032	0.518	79#
Ant.3	5.3G	Level4	802.11 ac (VHT80)	Front Side	15	58	5290	0.06	0.050	10.11	12.00	1.545	89.50	1.117	0.086	/
	5.3G	Level4	802.11 ac (VHT80)	Back Side	15	58	5290	-0.06	0.098	10.11	12.00	1.545	89.50	1.117	0.169	/
Ant.3	5.6G	Level3	802.11 n (VHT20)	Front Side	15	116	5580	0.12	0.189	17.75	18.50	1.189	96.80	1.033	0.232	/
	5.6G	Level3	802.11 n (VHT20)	Back Side	15	116	5580	-0.04	0.550	17.75	18.50	1.189	96.80	1.033	0.676	80#
Ant.3	5.6G	Level4	802.11 ac (VHT80)	Front Side	15	122	5610	0.02	0.059	11.21	12.00	1.199	89.50	1.117	0.079	/
	5.6G	Level4	802.11 ac (VHT80)	Back Side	15	122	5610	0.10	0.173	11.21	12.00	1.199	89.50	1.117	0.232	/
Ant.3	5.8G	Level3	802.11a	Front Side	15	149	5745	-0.04	0.185	17.56	18.50	1.242	96.90	1.032	0.237	/

	5.8G	Level3	802.11a	Back Side	15	149	5745	0.01	0.590	17.56	18.50	1.242	96.90	1.032	0.756	81#
Ant.3	5.8G	Level4	802.11 ac (VHT80)	Front Side	15	155	5775	0.08	0.058	10.80	12.00	1.318	89.50	1.117	0.085	/
	5.8G	Level4	802.11 ac (VHT80)	Back Side	15	155	5775	-0.07	0.184	10.80	12.00	1.318	89.50	1.117	0.271	/
Hotspot																
Ant.3	5.2G	Level4	802.11 ac (VHT80)	Front Side	10	42	5210	-0.02	0.072	10.48	12.00	1.419	89.50	1.117	0.114	/
	5.2G	Level4	802.11 ac (VHT80)	Back Side	10	42	5210	-0.06	0.139	10.48	12.00	1.419	89.50	1.117	0.220	82#
	5.2G	Level4	802.11 ac (VHT80)	Left Edge	10	42	5210	0.12	0.126	10.48	12.00	1.419	89.50	1.117	0.200	/
	5.2G	Level4	802.11 ac (VHT80)	Top Edge	10	42	5210	0.00	0.071	10.48	12.00	1.419	89.50	1.117	0.113	/
Ant.3	5.8G	Level4	802.11 ac (VHT80)	Front Side	10	155	5775	-0.07	0.068	10.80	12.00	1.318	89.50	1.117	0.100	/
	5.8G	Level4	802.11 ac (VHT80)	Back Side	10	155	5775	-0.10	0.181	10.80	12.00	1.318	89.50	1.117	0.266	83#
	5.8G	Level4	802.11 ac (VHT80)	Left Edge	10	155	5775	0.02	0.173	10.80	12.00	1.318	89.50	1.117	0.255	/
	5.8G	Level4	802.11 ac (VHT80)	Top Edge	10	155	5775	-0.14	0.158	10.80	12.00	1.318	89.50	1.117	0.233	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																

Antenna	Band	Power Reduction	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.
Specific																
Ant.3	5.3G	Level3	802.11a	Front Side	0	52	5260	0.08	0.620	16.69	18.50	1.517	96.90	1.032	0.971	/
	5.3G	Level3	802.11a	Back Side	0	52	5260	-0.01	0.736	16.69	18.50	1.517	96.90	1.032	1.152	/
	5.3G	Level3	802.11a	Left Edge	0	52	5260	-0.02	0.995	16.69	18.50	1.517	96.90	1.032	1.558	84#
	5.3G	Level3	802.11a	Top Edge	0	52	5260	-0.12	0.632	16.69	18.50	1.517	96.90	1.032	0.989	/
Ant.3	5.3G	Level4	802.11 ac (VHT80)	Front Side	0	58	5290	0.07	0.150	10.11	12.00	1.545	89.50	1.117	0.259	/
	5.3G	Level4	802.11 ac (VHT80)	Back Side	0	58	5290	0.13	0.171	10.11	12.00	1.545	89.50	1.117	0.295	/
	5.3G	Level4	802.11 ac (VHT80)	Left Edge	0	58	5290	-0.15	0.239	10.11	12.00	1.545	89.50	1.117	0.412	/
	5.3G	Level4	802.11 ac (VHT80)	Top Edge	0	58	5290	-0.05	0.151	10.11	12.00	1.545	89.50	1.117	0.261	/
Ant.3	5.6G	Level3	802.11 n (VHT20)	Front Side	0	116	5580	-0.06	0.773	17.75	18.50	1.189	96.80	1.033	0.949	/
	5.6G	Level3	802.11 n (VHT20)	Back Side	0	116	5580	0.04	1.340	17.75	18.50	1.189	96.80	1.033	1.646	85#
	5.6G	Level3	802.11 n (VHT20)	Left Edge	0	116	5580	0.04	1.240	17.75	18.50	1.189	96.80	1.033	1.523	/
	5.6G	Level3	802.11 n (VHT20)	Top Edge	0	116	5580	0.07	0.632	17.75	18.50	1.189	96.80	1.033	0.776	/
Ant.3	5.6G	Level4	802.11 ac (VHT80)	Front Side	0	122	5610	-0.06	0.203	11.21	12.00	1.199	89.50	1.117	0.272	/
	5.6G	Level4	802.11 ac (VHT80)	Back Side	0	122	5610	0.05	0.362	11.21	12.00	1.199	89.50	1.117	0.485	/
	5.6G	Level4	802.11 ac (VHT80)	Left Edge	0	122	5610	0.14	0.284	11.21	12.00	1.199	89.50	1.117	0.380	/
	5.6G	Level4	802.11 ac (VHT80)	Top Edge	0	122	5610	0.12	0.168	11.21	12.00	1.199	89.50	1.117	0.225	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																

10.25 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.3	DH5	Left Cheek	0	39	2441	0.06	0.218	12.59	13.00	1.099	76.67	1.012	0.242	86#
	DH5	Left Tilt	0	39	2441	-0.12	0.149	12.59	13.00	1.099	76.67	1.012	0.166	/
	DH5	Right Cheek	0	39	2441	0.10	0.085	12.59	13.00	1.099	76.67	1.012	0.095	/
	DH5	Right Tilt	0	39	2441	-0.09	0.098	12.59	13.00	1.099	76.67	1.012	0.109	/
Body-worn														
Ant.3	DH5	Front Side	15	39	2441	0.14	0.040	12.59	13.00	1.099	76.67	1.012	0.044	/
	DH5	Back Side	15	39	2441	-0.04	0.049	12.59	13.00	1.099	76.67	1.012	0.054	87#
Hotspot														
Ant.3	DH5	Front Side	10	39	2441	-0.04	0.027	12.59	13.00	1.099	76.67	1.012	0.030	/
	DH5	Back Side	10	39	2441	-0.04	0.091	12.59	13.00	1.099	76.67	1.012	0.101	88#
	DH5	Left Edge	10	39	2441	-0.02	0.048	12.59	13.00	1.099	76.67	1.012	0.053	/
	DH5	Top Edge	10	39	2441	0.15	0.045	12.59	13.00	1.099	76.67	1.012	0.050	/
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.
Specific														
Ant.3	DH5	Front Side	0	39	2441	0.12	0.097	12.59	13.00	1.099	76.67	1.012	0.108	/
	DH5	Back Side	0	39	2441	0.11	0.184	12.59	13.00	1.099	76.67	1.012	0.205	89#
	DH5	Left Edge	0	39	2441	0.08	0.172	12.59	13.00	1.099	76.67	1.012	0.191	/
	DH5	Top Edge	0	39	2441	-0.07	0.101	12.59	13.00	1.099	76.67	1.012	0.112	/
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
1850.2	GSM1900	Head	Right Tilt	1.060	Yes	1.010	1.05
837.5	LTE Band19	Head	Right Cheek	0.821	Yes	0.818	1.00
1770	LTE Band66	Head	Right Cheek	1.000	Yes	0.993	1.01
2437	WIFI 2.4GHz	Head	Left Cheek	0.803	Yes	0.799	1.01
5270	WIFI 5.3GHz	Head	Left Cheek	0.837	Yes	0.835	1.00
Note: The ratio of largest to smallest SAR for the original and first repeated measurements is < 1.20 , the second repeated measurement. is not required.							

12 SIMULTANEOUS TRANSMISSION

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

12.1 Simultaneous Transmission Mode Consider

No.	Simultaneous Tx Combination	Head	Body-worn	Hotspot	Specific
1	WWAN + 2.4G WIFI	Yes	Yes	Yes	Yes
2	WWAN + 5G WIFI	Yes	Yes	Yes	Yes
3	WWAN + BT	Yes	Yes	Yes	Yes

Note:

1. WiFi 2.4G and Bluetooth can't transmit simultaneously.
2. 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 and BT

Band	Antenna	Position	Stand alone SAR				SUM SAR		
			1	2	3	4			
			WWAN	2.4GWIFI	5GWIFI Max.	Bluetooth	1+2	1+3	1+4
			State4	Level2	Level2				
GSM850	Ant.1	Left Cheek	0.470	0.551	0.500	0.242	1.021	0.970	0.712
		Left Tilt	0.376	0.388	0.315	0.166	0.764	0.691	0.542
		Right Cheek	0.728	0.219	0.170	0.095	0.947	0.898	0.823
		Right Tilt	0.616	0.252	0.193	0.109	0.868	0.809	0.725
GSM850	Ant.0	Left Cheek	0.348	0.551	0.500	0.242	0.899	0.848	0.590
		Left Tilt	0.196	0.388	0.315	0.166	0.584	0.511	0.362
		Right Cheek	0.260	0.219	0.170	0.095	0.479	0.430	0.355
		Right Tilt	0.151	0.252	0.193	0.109	0.403	0.344	0.260
GSM900	Ant.1	Left Cheek	0.380	0.551	0.500	0.242	0.931	0.880	0.622
		Left Tilt	0.343	0.388	0.315	0.166	0.731	0.658	0.509
		Right Cheek	0.743	0.219	0.170	0.095	0.962	0.913	0.838
		Right Tilt	0.495	0.252	0.193	0.109	0.747	0.688	0.604
GSM900	Ant.0	Left Cheek	0.110	0.551	0.500	0.242	0.661	0.610	0.352
		Left Tilt	0.049	0.388	0.315	0.166	0.437	0.364	0.215
		Right Cheek	0.076	0.219	0.170	0.095	0.295	0.246	0.171
		Right Tilt	0.030	0.252	0.193	0.109	0.282	0.223	0.139
GSM1900	Ant.1	Left Cheek	0.348	0.551	0.500	0.242	0.899	0.848	0.590
		Left Tilt	0.410	0.388	0.315	0.166	0.798	0.725	0.576
		Right Cheek	0.557	0.219	0.170	0.095	0.776	0.727	0.652
		Right Tilt	0.923	0.252	0.193	0.109	1.175	1.116	1.032
GSM1900	Ant.0	Left Cheek	0.099	0.551	0.500	0.242	0.650	0.599	0.341
		Left Tilt	0.054	0.388	0.315	0.166	0.442	0.369	0.220
		Right Cheek	0.083	0.219	0.170	0.095	0.302	0.253	0.178
		Right Tilt	0.052	0.252	0.193	0.109	0.304	0.245	0.161
WCDMA B2	Ant.1	Left Cheek	0.368	0.551	0.500	0.242	0.919	0.868	0.610
		Left Tilt	0.438	0.388	0.315	0.166	0.826	0.753	0.604
		Right Cheek	0.612	0.219	0.170	0.095	0.831	0.782	0.707
		Right Tilt	0.755	0.252	0.193	0.109	1.007	0.948	0.864
WCDMA B2	Ant.0	Left Cheek	0.190	0.551	0.500	0.242	0.741	0.690	0.432
		Left Tilt	0.107	0.388	0.315	0.166	0.495	0.422	0.273
		Right Cheek	0.140	0.219	0.170	0.095	0.359	0.310	0.235
		Right Tilt	0.092	0.252	0.193	0.109	0.344	0.285	0.201
WCDMA B4	Ant.1	Left Cheek	0.246	0.551	0.500	0.242	0.797	0.746	0.488
		Left Tilt	0.274	0.388	0.315	0.166	0.662	0.589	0.440
		Right Cheek	0.518	0.219	0.170	0.095	0.737	0.688	0.613
		Right Tilt	0.440	0.252	0.193	0.109	0.692	0.633	0.549

WCDMA B4	Ant.0	Left Cheek	0.188	0.551	0.500	0.242	0.739	0.688	0.430
		Left Tilt	0.088	0.388	0.315	0.166	0.476	0.403	0.254
		Right Cheek	0.112	0.219	0.170	0.095	0.331	0.282	0.207
		Right Tilt	0.094	0.252	0.193	0.109	0.346	0.287	0.203
WCDMA B5	Ant.1	Left Cheek	0.302	0.551	0.500	0.242	0.853	0.802	0.544
		Left Tilt	0.281	0.388	0.315	0.166	0.669	0.596	0.447
		Right Cheek	0.615	0.219	0.170	0.095	0.834	0.785	0.710
		Right Tilt	0.434	0.252	0.193	0.109	0.686	0.627	0.543
WCDMA B5	Ant.0	Left Cheek	0.214	0.551	0.500	0.242	0.765	0.714	0.456
		Left Tilt	0.113	0.388	0.315	0.166	0.501	0.428	0.279
		Right Cheek	0.176	0.219	0.170	0.095	0.395	0.346	0.271
		Right Tilt	0.090	0.252	0.193	0.109	0.342	0.283	0.199
WCDMA B8	Ant.1	Left Cheek	0.263	0.551	0.500	0.242	0.814	0.763	0.505
		Left Tilt	0.246	0.388	0.315	0.166	0.634	0.561	0.412
		Right Cheek	0.568	0.219	0.170	0.095	0.787	0.738	0.663
		Right Tilt	0.281	0.252	0.193	0.109	0.533	0.474	0.390
WCDMA B8	Ant.0	Left Cheek	0.222	0.551	0.500	0.242	0.773	0.722	0.464
		Left Tilt	0.093	0.388	0.315	0.166	0.481	0.408	0.259
		Right Cheek	0.165	0.219	0.170	0.095	0.384	0.335	0.260
		Right Tilt	0.058	0.252	0.193	0.109	0.310	0.251	0.167
LTE B2	Ant.1	Left Cheek	0.215	0.551	0.500	0.242	0.766	0.715	0.457
		Left Tilt	0.226	0.388	0.315	0.166	0.614	0.541	0.392
		Right Cheek	0.364	0.219	0.170	0.095	0.583	0.534	0.459
		Right Tilt	0.406	0.252	0.193	0.109	0.658	0.599	0.515
LTE B2	Ant.0	Left Cheek	0.150	0.551	0.500	0.242	0.701	0.650	0.392
		Left Tilt	0.096	0.388	0.315	0.166	0.484	0.411	0.262
		Right Cheek	0.132	0.219	0.170	0.095	0.351	0.302	0.227
		Right Tilt	0.086	0.252	0.193	0.109	0.338	0.279	0.195
LTE B4	Ant.1	Left Cheek	0.179	0.551	0.500	0.242	0.730	0.679	0.421
		Left Tilt	0.226	0.388	0.315	0.166	0.614	0.541	0.392
		Right Cheek	0.348	0.219	0.170	0.095	0.567	0.518	0.443
		Right Tilt	0.356	0.252	0.193	0.109	0.608	0.549	0.465
LTE B4	Ant.0	Left Cheek	0.152	0.551	0.500	0.242	0.703	0.652	0.394
		Left Tilt	0.094	0.388	0.315	0.166	0.482	0.409	0.260
		Right Cheek	0.126	0.219	0.170	0.095	0.345	0.296	0.221
		Right Tilt	0.100	0.252	0.193	0.109	0.352	0.293	0.209
LTE B5	Ant.1	Left Cheek	0.349	0.551	0.500	0.242	0.900	0.849	0.591
		Left Tilt	0.315	0.388	0.315	0.166	0.703	0.630	0.481
		Right Cheek	0.531	0.219	0.170	0.095	0.750	0.701	0.626
		Right Tilt	0.470	0.252	0.193	0.109	0.722	0.663	0.579
LTE B5	Ant.0	Left Cheek	0.206	0.551	0.500	0.242	0.757	0.706	0.448
		Left Tilt	0.107	0.388	0.315	0.166	0.495	0.422	0.273
		Right Cheek	0.171	0.219	0.170	0.095	0.390	0.341	0.266

		Right Tilt	0.084	0.252	0.193	0.109	0.336	0.277	0.193
LTE B7	Ant.1	Left Cheek	0.162	0.551	0.500	0.242	0.713	0.662	0.404
		Left Tilt	0.170	0.388	0.315	0.166	0.558	0.485	0.336
		Right Cheek	0.443	0.219	0.170	0.095	0.662	0.613	0.538
		Right Tilt	0.371	0.252	0.193	0.109	0.623	0.564	0.480
LTE B7	Ant.0	Left Cheek	0.271	0.551	0.500	0.242	0.822	0.771	0.513
		Left Tilt	0.185	0.388	0.315	0.166	0.573	0.500	0.351
		Right Cheek	0.448	0.219	0.170	0.095	0.667	0.618	0.543
		Right Tilt	0.280	0.252	0.193	0.109	0.532	0.473	0.389
LTE B8	Ant.1	Left Cheek	0.329	0.551	0.500	0.242	0.880	0.829	0.571
		Left Tilt	0.318	0.388	0.315	0.166	0.706	0.633	0.484
		Right Cheek	0.538	0.219	0.170	0.095	0.757	0.708	0.633
		Right Tilt	0.378	0.252	0.193	0.109	0.630	0.571	0.487
LTE B8	Ant.0	Left Cheek	0.221	0.551	0.500	0.242	0.772	0.721	0.463
		Left Tilt	0.099	0.388	0.315	0.166	0.487	0.414	0.265
		Right Cheek	0.117	0.219	0.170	0.095	0.336	0.287	0.212
		Right Tilt	0.062	0.252	0.193	0.109	0.314	0.255	0.171
LTE B12	Ant.1	Left Cheek	0.200	0.551	0.500	0.242	0.751	0.700	0.442
		Left Tilt	0.175	0.388	0.315	0.166	0.563	0.490	0.341
		Right Cheek	0.368	0.219	0.170	0.095	0.587	0.538	0.463
		Right Tilt	0.306	0.252	0.193	0.109	0.558	0.499	0.415
LTE B12	Ant.0	Left Cheek	0.091	0.551	0.500	0.242	0.642	0.591	0.333
		Left Tilt	0.040	0.388	0.315	0.166	0.428	0.355	0.206
		Right Cheek	0.076	0.219	0.170	0.095	0.295	0.246	0.171
		Right Tilt	0.039	0.252	0.193	0.109	0.291	0.232	0.148
LTE B13	Ant.1	Left Cheek	0.272	0.551	0.500	0.242	0.823	0.772	0.514
		Left Tilt	0.301	0.388	0.315	0.166	0.689	0.616	0.467
		Right Cheek	0.483	0.219	0.170	0.095	0.702	0.653	0.578
		Right Tilt	0.390	0.252	0.193	0.109	0.642	0.583	0.499
LTE B13	Ant.0	Left Cheek	0.143	0.551	0.500	0.242	0.694	0.643	0.385
		Left Tilt	0.076	0.388	0.315	0.166	0.464	0.391	0.242
		Right Cheek	0.125	0.219	0.170	0.095	0.344	0.295	0.220
		Right Tilt	0.077	0.252	0.193	0.109	0.329	0.270	0.186
LTE B17	Ant.1	Left Cheek	0.351	0.551	0.500	0.242	0.902	0.851	0.593
		Left Tilt	0.319	0.388	0.315	0.166	0.707	0.634	0.485
		Right Cheek	0.576	0.219	0.170	0.095	0.795	0.746	0.671
		Right Tilt	0.447	0.252	0.193	0.109	0.699	0.640	0.556
LTE B17	Ant.0	Left Cheek	0.078	0.551	0.500	0.242	0.629	0.578	0.320
		Left Tilt	0.042	0.388	0.315	0.166	0.430	0.357	0.208
		Right Cheek	0.083	0.219	0.170	0.095	0.302	0.253	0.178
		Right Tilt	0.042	0.252	0.193	0.109	0.294	0.235	0.151
LTE B18	Ant.1	Left Cheek	0.459	0.551	0.500	0.242	1.010	0.959	0.701
		Left Tilt	0.390	0.388	0.315	0.166	0.778	0.705	0.556

		Right Cheek	0.659	0.219	0.170	0.095	0.878	0.829	0.754
		Right Tilt	0.516	0.252	0.193	0.109	0.768	0.709	0.625
LTE B18	Ant.0	Left Cheek	0.140	0.551	0.500	0.242	0.691	0.640	0.382
		Left Tilt	0.084	0.388	0.315	0.166	0.472	0.399	0.250
		Right Cheek	0.114	0.219	0.170	0.095	0.333	0.284	0.209
		Right Tilt	0.057	0.252	0.193	0.109	0.309	0.250	0.166
LTE B19	Ant.1	Left Cheek	0.442	0.551	0.500	0.242	0.993	0.942	0.684
		Left Tilt	0.407	0.388	0.315	0.166	0.795	0.722	0.573
		Right Cheek	0.699	0.219	0.170	0.095	0.918	0.869	0.794
		Right Tilt	0.640	0.252	0.193	0.109	0.892	0.833	0.749
LTE B19	Ant.0	Left Cheek	0.133	0.551	0.500	0.242	0.684	0.633	0.375
		Left Tilt	0.074	0.388	0.315	0.166	0.462	0.389	0.240
		Right Cheek	0.112	0.219	0.170	0.095	0.331	0.282	0.207
		Right Tilt	0.057	0.252	0.193	0.109	0.309	0.250	0.166
LTE B26	Ant.1	Left Cheek	0.358	0.551	0.500	0.242	0.909	0.858	0.600
		Left Tilt	0.329	0.388	0.315	0.166	0.717	0.644	0.495
		Right Cheek	0.548	0.219	0.170	0.095	0.767	0.718	0.643
		Right Tilt	0.498	0.252	0.193	0.109	0.750	0.691	0.607
LTE B26	Ant.0	Left Cheek	0.181	0.551	0.500	0.242	0.732	0.681	0.423
		Left Tilt	0.098	0.388	0.315	0.166	0.486	0.413	0.264
		Right Cheek	0.158	0.219	0.170	0.095	0.377	0.328	0.253
		Right Tilt	0.075	0.252	0.193	0.109	0.327	0.268	0.184
LTE B28	Ant.1	Left Cheek	0.396	0.551	0.500	0.242	0.947	0.896	0.638
		Left Tilt	0.366	0.388	0.315	0.166	0.754	0.681	0.532
		Right Cheek	0.799	0.219	0.170	0.095	1.018	0.969	0.894
		Right Tilt	0.590	0.252	0.193	0.109	0.842	0.783	0.699
LTE B28	Ant.0	Left Cheek	0.158	0.551	0.500	0.242	0.709	0.658	0.400
		Left Tilt	0.091	0.388	0.315	0.166	0.479	0.406	0.257
		Right Cheek	0.143	0.219	0.170	0.095	0.362	0.313	0.238
		Right Tilt	0.080	0.252	0.193	0.109	0.332	0.273	0.189
LTE 66	Ant.1	Left Cheek	0.454	0.551	0.500	0.242	1.005	0.954	0.696
		Left Tilt	0.529	0.388	0.315	0.166	0.917	0.844	0.695
		Right Cheek	1.042	0.219	0.170	0.095	1.261	1.212	1.137
		Right Tilt	0.911	0.252	0.193	0.109	1.163	1.104	1.020
LTE 66	Ant.0	Left Cheek	0.262	0.551	0.500	0.242	0.813	0.762	0.504
		Left Tilt	0.095	0.388	0.315	0.166	0.483	0.410	0.261
		Right Cheek	0.153	0.219	0.170	0.095	0.372	0.323	0.248
		Right Tilt	0.104	0.252	0.193	0.109	0.356	0.297	0.213
LTE B38	Ant.1	Left Cheek	0.026	0.551	0.500	0.242	0.577	0.526	0.268
		Left Tilt	0.022	0.388	0.315	0.166	0.410	0.337	0.188
		Right Cheek	0.094	0.219	0.170	0.095	0.313	0.264	0.189
		Right Tilt	0.071	0.252	0.193	0.109	0.323	0.264	0.180
LTE B38	Ant.0	Left Cheek	0.073	0.551	0.500	0.242	0.624	0.573	0.315

		Left Tilt	0.046	0.388	0.315	0.166	0.434	0.361	0.212
		Right Cheek	0.078	0.219	0.170	0.095	0.297	0.248	0.173
		Right Tilt	0.051	0.252	0.193	0.109	0.303	0.244	0.160
LTE B41	Ant.1	Left Cheek	0.060	0.551	0.500	0.242	0.611	0.560	0.302
		Left Tilt	0.053	0.388	0.315	0.166	0.441	0.368	0.219
		Right Cheek	0.168	0.219	0.170	0.095	0.387	0.338	0.263
		Right Tilt	0.120	0.252	0.193	0.109	0.372	0.313	0.229
LTE B41	Ant.0	Left Cheek	0.072	0.551	0.500	0.242	0.623	0.572	0.314
		Left Tilt	0.030	0.388	0.315	0.166	0.418	0.345	0.196
		Right Cheek	0.069	0.219	0.170	0.095	0.288	0.239	0.164
		Right Tilt	0.026	0.252	0.193	0.109	0.278	0.219	0.135

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

12.2.2 Body-Worn Simultaneous Transmission SAR Evaluation for WWAN and WLAN and BT

Band	Antenna	Position	Stand alone SAR				SUM SAR		
			1	2	3	4			
			WWAN	2.4GWIFI	5GWIFI Max.	Bluetooth	1+2	1+3	1+4
			State3	Level4	Level4				
GSM850	Ant.1	Front Side 15mm	0.142	0.229	0.086	0.044	0.371	0.228	0.186
		Back Side 15mm	0.158	0.277	0.271	0.054	0.435	0.429	0.212
GSM850	Ant.0	Front Side 15mm	0.122	0.229	0.086	0.044	0.351	0.208	0.166
		Back Side 15mm	0.209	0.277	0.271	0.054	0.486	0.480	0.263
GSM900	Ant.1	Front Side 15mm	0.121	0.229	0.086	0.044	0.350	0.207	0.165
		Back Side 15mm	0.188	0.277	0.271	0.054	0.465	0.459	0.242
GSM900	Ant.0	Front Side 15mm	0.061	0.229	0.086	0.044	0.290	0.147	0.105
		Back Side 15mm	0.117	0.277	0.271	0.054	0.394	0.388	0.171
GSM1900	Ant.1	Front Side 15mm	0.169	0.229	0.086	0.044	0.398	0.255	0.213
		Back Side 15mm	0.225	0.277	0.271	0.054	0.502	0.496	0.279
GSM1900	Ant.0	Front Side 15mm	0.142	0.229	0.086	0.044	0.371	0.228	0.186
		Back Side 15mm	0.262	0.277	0.271	0.054	0.539	0.533	0.316
WCDMA B2	Ant.1	Front Side 15mm	0.109	0.229	0.086	0.044	0.338	0.195	0.153
		Back Side 15mm	0.138	0.277	0.271	0.054	0.415	0.409	0.192
WCDMA B2	Ant.0	Front Side 15mm	0.103	0.229	0.086	0.044	0.332	0.189	0.147
		Back Side 15mm	0.135	0.277	0.271	0.054	0.412	0.406	0.189
WCDMA B4	Ant.1	Front Side 15mm	0.076	0.229	0.086	0.044	0.305	0.162	0.120
		Back Side 15mm	0.099	0.277	0.271	0.054	0.376	0.370	0.153
WCDMA B4	Ant.0	Front Side 15mm	0.048	0.229	0.086	0.044	0.277	0.134	0.092
		Back Side 15mm	0.113	0.277	0.271	0.054	0.390	0.384	0.167
WCDMA B5	Ant.1	Front Side 15mm	0.141	0.229	0.086	0.044	0.370	0.227	0.185
		Back Side 15mm	0.167	0.277	0.271	0.054	0.444	0.438	0.221
WCDMA B5	Ant.0	Front Side 15mm	0.099	0.229	0.086	0.044	0.328	0.185	0.143
		Back Side 15mm	0.114	0.277	0.271	0.054	0.391	0.385	0.168
WCDMA B8	Ant.1	Front Side 15mm	0.111	0.229	0.086	0.044	0.340	0.197	0.155
		Back Side 15mm	0.144	0.277	0.271	0.054	0.421	0.415	0.198
WCDMA B8	Ant.0	Front Side 15mm	0.092	0.229	0.086	0.044	0.321	0.178	0.136
		Back Side 15mm	0.138	0.277	0.271	0.054	0.415	0.409	0.192
LTE B2	Ant.1	Front Side 15mm	0.076	0.229	0.086	0.044	0.305	0.162	0.120
		Back Side 15mm	0.125	0.277	0.271	0.054	0.402	0.396	0.179
LTE B2	Ant.0	Front Side 15mm	0.064	0.229	0.086	0.044	0.293	0.150	0.108
		Back Side 15mm	0.103	0.277	0.271	0.054	0.380	0.374	0.157
LTE B4	Ant.1	Front Side 15mm	0.077	0.229	0.086	0.044	0.306	0.163	0.121
		Back Side 15mm	0.096	0.277	0.271	0.054	0.373	0.367	0.150
LTE B4	Ant.0	Front Side 15mm	0.058	0.229	0.086	0.044	0.287	0.144	0.102
		Back Side 15mm	0.084	0.277	0.271	0.054	0.361	0.355	0.138

LTE B5	Ant.1	Front Side 15mm	0.128	0.229	0.086	0.044	0.357	0.214	0.172
		Back Side 15mm	0.143	0.277	0.271	0.054	0.420	0.414	0.197
LTE B5	Ant.0	Front Side 15mm	0.050	0.229	0.086	0.044	0.279	0.136	0.094
		Back Side 15mm	0.112	0.277	0.271	0.054	0.389	0.383	0.166
LTE B7	Ant.1	Front Side 15mm	0.042	0.229	0.086	0.044	0.271	0.128	0.086
		Back Side 15mm	0.068	0.277	0.271	0.054	0.345	0.339	0.122
LTE B7	Ant.0	Front Side 15mm	0.102	0.229	0.086	0.044	0.331	0.188	0.146
		Back Side 15mm	0.099	0.277	0.271	0.054	0.376	0.370	0.153
LTE B8	Ant.1	Front Side 15mm	0.141	0.229	0.086	0.044	0.370	0.227	0.185
		Back Side 15mm	0.150	0.277	0.271	0.054	0.427	0.421	0.204
LTE B8	Ant.0	Front Side 15mm	0.069	0.229	0.086	0.044	0.298	0.155	0.113
		Back Side 15mm	0.078	0.277	0.271	0.054	0.355	0.349	0.132
LTE B12	Ant.1	Front Side 15mm	0.181	0.229	0.086	0.044	0.410	0.267	0.225
		Back Side 15mm	0.231	0.277	0.271	0.054	0.508	0.502	0.285
LTE B12	Ant.0	Front Side 15mm	0.020	0.229	0.086	0.044	0.249	0.106	0.064
		Back Side 15mm	0.024	0.277	0.271	0.054	0.301	0.295	0.078
LTE B13	Ant.1	Front Side 15mm	0.114	0.229	0.086	0.044	0.343	0.200	0.158
		Back Side 15mm	0.163	0.277	0.271	0.054	0.440	0.434	0.217
LTE B13	Ant.0	Front Side 15mm	0.057	0.229	0.086	0.044	0.286	0.143	0.101
		Back Side 15mm	0.074	0.277	0.271	0.054	0.351	0.345	0.128
LTE B17	Ant.1	Front Side 15mm	0.143	0.229	0.086	0.044	0.372	0.229	0.187
		Back Side 15mm	0.182	0.277	0.271	0.054	0.459	0.453	0.236
LTE B17	Ant.0	Front Side 15mm	0.017	0.229	0.086	0.044	0.246	0.103	0.061
		Back Side 15mm	0.027	0.277	0.271	0.054	0.304	0.298	0.081
LTE B18	Ant.1	Front Side 15mm	0.180	0.229	0.086	0.044	0.409	0.266	0.224
		Back Side 15mm	0.219	0.277	0.271	0.054	0.496	0.490	0.273
LTE B18	Ant.0	Front Side 15mm	0.096	0.229	0.086	0.044	0.325	0.182	0.140
		Back Side 15mm	0.104	0.277	0.271	0.054	0.381	0.375	0.158
LTE B19	Ant.1	Front Side 15mm	0.210	0.229	0.086	0.044	0.439	0.296	0.254
		Back Side 15mm	0.264	0.277	0.271	0.054	0.541	0.535	0.318
LTE B19	Ant.0	Front Side 15mm	0.100	0.229	0.086	0.044	0.329	0.186	0.144
		Back Side 15mm	0.124	0.277	0.271	0.054	0.401	0.395	0.178
LTE B26	Ant.1	Front Side 15mm	0.119	0.229	0.086	0.044	0.348	0.205	0.163
		Back Side 15mm	0.139	0.277	0.271	0.054	0.416	0.410	0.193
LTE B26	Ant.0	Front Side 15mm	0.089	0.229	0.086	0.044	0.318	0.175	0.133
		Back Side 15mm	0.109	0.277	0.271	0.054	0.386	0.380	0.163
LTE B28	Ant.1	Front Side 15mm	0.118	0.229	0.086	0.044	0.347	0.204	0.162
		Back Side 15mm	0.149	0.277	0.271	0.054	0.426	0.420	0.203
LTE B28	Ant.0	Front Side 15mm	0.039	0.229	0.086	0.044	0.268	0.125	0.083
		Back Side 15mm	0.053	0.277	0.271	0.054	0.330	0.324	0.107
LTE 66	Ant.1	Front Side 15mm	0.116	0.229	0.086	0.044	0.345	0.202	0.160
		Back Side 15mm	0.163	0.277	0.271	0.054	0.440	0.434	0.217
LTE 66	Ant.0	Front Side 15mm	0.106	0.229	0.086	0.044	0.335	0.192	0.150

		Back Side 15mm	0.159	0.277	0.271	0.054	0.436	0.430	0.213
LTE B38	Ant.1	Front Side 15mm	0.076	0.229	0.086	0.044	0.305	0.162	0.120
		Back Side 15mm	0.132	0.277	0.271	0.054	0.409	0.403	0.186
LTE B38	Ant.0	Front Side 15mm	0.136	0.229	0.086	0.044	0.365	0.222	0.180
		Back Side 15mm	0.122	0.277	0.271	0.054	0.399	0.393	0.176
LTE B41	Ant.1	Front Side 15mm	0.040	0.229	0.086	0.044	0.269	0.126	0.084
		Back Side 15mm	0.058	0.277	0.271	0.054	0.335	0.329	0.112
LTE B41	Ant.0	Front Side 15mm	0.046	0.229	0.086	0.044	0.275	0.132	0.090
		Back Side 15mm	0.037	0.277	0.271	0.054	0.314	0.308	0.091

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

12.2.3 Hotspot Simultaneous Transmission SAR Evaluation for WWAN and WLAN and BT

Band	Antenna	Position	Stand alone SAR				SUM SAR		
			1	2	3	4			
			WWAN	2.4GWIFI	5GWIFI Max.	Bluetooth	1+2	1+3	1+4
			State3	Level4	Level4				
GSM850	Ant.1	Front Side 10mm	0.238	0.585	0.114	0.030	0.823	0.352	0.268
		Back Side 10mm	0.461	0.776	0.266	0.101	1.237	0.727	0.562
		Left Edge 10mm	0.087	0.366	0.255	0.053	0.453	0.342	0.140
		Right Edge 10mm	0.099	0.000	0.233	0.000	0.099	0.332	0.099
		Top Edge 10mm	0.319	0.405	0.233	0.050	0.724	0.552	0.369
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GSM850	Ant.0	Front Side 10mm	0.239	0.585	0.114	0.030	0.824	0.353	0.269
		Back Side 10mm	0.386	0.776	0.266	0.101	1.162	0.652	0.487
		Left Edge 10mm	0.074	0.366	0.255	0.053	0.440	0.329	0.127
		Right Edge 10mm	0.209	0.000	0.233	0.000	0.209	0.442	0.209
		Top Edge 10mm	0.000	0.405	0.233	0.050	0.405	0.233	0.050
		Bottom Edge 10mm	0.338	0.000	0.000	0.000	0.338	0.338	0.338
GSM900	Ant.1	Front Side 10mm	0.176	0.585	0.114	0.030	0.761	0.290	0.206
		Back Side 10mm	0.303	0.776	0.266	0.101	1.079	0.569	0.404
		Left Edge 10mm	0.054	0.366	0.255	0.053	0.420	0.309	0.107
		Right Edge 10mm	0.151	0.000	0.233	0.000	0.151	0.384	0.151
		Top Edge 10mm	0.244	0.405	0.233	0.050	0.649	0.477	0.294
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GSM900	Ant.0	Front Side 10mm	0.107	0.585	0.114	0.030	0.692	0.221	0.137
		Back Side 10mm	0.169	0.776	0.266	0.101	0.945	0.435	0.270
		Left Edge 10mm	0.025	0.366	0.255	0.053	0.391	0.280	0.078
		Right Edge 10mm	0.041	0.000	0.233	0.000	0.041	0.274	0.041
		Top Edge 10mm	0.000	0.405	0.233	0.050	0.405	0.233	0.050
		Bottom Edge 10mm	0.229	0.000	0.000	0.000	0.229	0.229	0.229
GSM1900	Ant.1	Front Side 10mm	0.236	0.585	0.114	0.030	0.821	0.350	0.266
		Back Side 10mm	0.328	0.776	0.266	0.101	1.104	0.594	0.429
		Left Edge 10mm	0.013	0.366	0.255	0.053	0.379	0.268	0.066
		Right Edge 10mm	0.063	0.000	0.233	0.000	0.063	0.296	0.063
		Top Edge 10mm	0.419	0.405	0.233	0.050	0.824	0.652	0.469
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GSM1900	Ant.0	Front Side 10mm	0.138	0.585	0.114	0.030	0.723	0.252	0.168
		Back Side 10mm	0.237	0.776	0.266	0.101	1.013	0.503	0.338
		Left Edge 10mm	0.075	0.366	0.255	0.053	0.441	0.330	0.128
		Right Edge 10mm	0.032	0.000	0.233	0.000	0.032	0.265	0.032
		Top Edge 10mm	0.000	0.405	0.233	0.050	0.405	0.233	0.050
		Bottom Edge 10mm	0.465	0.000	0.000	0.000	0.465	0.465	0.465
WCDMA B2	Ant.1	Front Side 10mm	0.231	0.585	0.114	0.030	0.816	0.345	0.261

		Back Side 10mm	0.320	0.776	0.266	0.101	1.096	0.586	0.421
		Left Edge 10mm	0.017	0.366	0.255	0.053	0.383	0.272	0.070
		Right Edge 10mm	0.053	0.000	0.233	0.000	0.053	0.286	0.053
		Top Edge 10mm	0.344	0.405	0.233	0.050	0.749	0.577	0.394
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA B2	Ant.0	Front Side 10mm	0.126	0.585	0.114	0.030	0.711	0.240	0.156
		Back Side 10mm	0.216	0.776	0.266	0.101	0.992	0.482	0.317
		Left Edge 10mm	0.064	0.366	0.255	0.053	0.430	0.319	0.117
		Right Edge 10mm	0.021	0.000	0.233	0.000	0.021	0.254	0.021
		Top Edge 10mm	0.000	0.405	0.233	0.050	0.405	0.233	0.050
		Bottom Edge 10mm	0.356	0.000	0.000	0.000	0.356	0.356	0.356
WCDMA B4	Ant.1	Front Side 10mm	0.164	0.585	0.114	0.030	0.749	0.278	0.194
		Back Side 10mm	0.220	0.776	0.266	0.101	0.996	0.486	0.321
		Left Edge 10mm	0.017	0.366	0.255	0.053	0.383	0.272	0.070
		Right Edge 10mm	0.048	0.000	0.233	0.000	0.048	0.281	0.048
		Top Edge 10mm	0.295	0.405	0.233	0.050	0.700	0.528	0.345
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA B4	Ant.0	Front Side 10mm	0.093	0.585	0.114	0.030	0.678	0.207	0.123
		Back Side 10mm	0.153	0.776	0.266	0.101	0.929	0.419	0.254
		Left Edge 10mm	0.032	0.366	0.255	0.053	0.398	0.287	0.085
		Right Edge 10mm	0.023	0.000	0.233	0.000	0.023	0.256	0.023
		Top Edge 10mm	0.000	0.405	0.233	0.050	0.405	0.233	0.050
		Bottom Edge 10mm	0.326	0.000	0.000	0.000	0.326	0.326	0.326
WCDMA B5	Ant.1	Front Side 10mm	0.242	0.585	0.114	0.030	0.827	0.356	0.272
		Back Side 10mm	0.342	0.776	0.266	0.101	1.118	0.608	0.443
		Left Edge 10mm	0.113	0.366	0.255	0.053	0.479	0.368	0.166
		Right Edge 10mm	0.096	0.000	0.233	0.000	0.096	0.329	0.096
		Top Edge 10mm	0.245	0.405	0.233	0.050	0.650	0.478	0.295
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA B5	Ant.0	Front Side 10mm	0.113	0.585	0.114	0.030	0.698	0.227	0.143
		Back Side 10mm	0.201	0.776	0.266	0.101	0.977	0.467	0.302
		Left Edge 10mm	0.052	0.366	0.255	0.053	0.418	0.307	0.105
		Right Edge 10mm	0.086	0.000	0.233	0.000	0.086	0.319	0.086
		Top Edge 10mm	0.000	0.405	0.233	0.050	0.405	0.233	0.050
		Bottom Edge 10mm	0.157	0.000	0.000	0.000	0.157	0.157	0.157
WCDMA B8	Ant.1	Front Side 10mm	0.441	0.585	0.114	0.030	1.026	0.555	0.471
		Back Side 10mm	0.559	0.776	0.266	0.101	1.335	0.825	0.660
		Left Edge 10mm	0.178	0.366	0.255	0.053	0.544	0.433	0.231
		Right Edge 10mm	0.133	0.000	0.233	0.000	0.133	0.366	0.133
		Top Edge 10mm	0.322	0.405	0.233	0.050	0.727	0.555	0.372
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA B8	Ant.0	Front Side 10mm	0.105	0.585	0.114	0.030	0.690	0.219	0.135
		Back Side 10mm	0.183	0.776	0.266	0.101	0.959	0.449	0.284

		Left Edge 10mm	0.000	0.366	0.255	0.053	0.366	0.255	0.053
		Right Edge 10mm	0.058	0.000	0.233	0.000	0.058	0.291	0.058
		Top Edge 10mm	0.000	0.405	0.233	0.050	0.405	0.233	0.050
		Bottom Edge 10mm	0.327	0.000	0.000	0.000	0.327	0.327	0.327
LTE B2	Ant.1	Front Side 10mm	0.187	0.585	0.114	0.030	0.772	0.301	0.217
		Back Side 10mm	0.278	0.776	0.266	0.101	1.054	0.544	0.379
		Left Edge 10mm	0.012	0.366	0.255	0.053	0.378	0.267	0.065
		Right Edge 10mm	0.046	0.000	0.233	0.000	0.046	0.279	0.046
		Top Edge 10mm	0.254	0.405	0.233	0.050	0.659	0.487	0.304
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B2	Ant.0	Front Side 10mm	0.092	0.585	0.114	0.030	0.677	0.206	0.122
		Back Side 10mm	0.160	0.776	0.266	0.101	0.936	0.426	0.261
		Left Edge 10mm	0.053	0.366	0.255	0.053	0.419	0.308	0.106
		Right Edge 10mm	0.023	0.000	0.233	0.000	0.023	0.256	0.023
		Top Edge 10mm	0.000	0.405	0.233	0.050	0.405	0.233	0.050
		Bottom Edge 10mm	0.296	0.000	0.000	0.000	0.296	0.296	0.296
LTE B4	Ant.1	Front Side 10mm	0.218	0.585	0.114	0.030	0.803	0.332	0.248
		Back Side 10mm	0.275	0.776	0.266	0.101	1.051	0.541	0.376
		Left Edge 10mm	0.020	0.366	0.255	0.053	0.386	0.275	0.073
		Right Edge 10mm	0.058	0.000	0.233	0.000	0.058	0.291	0.058
		Top Edge 10mm	0.251	0.405	0.233	0.050	0.656	0.484	0.301
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B4	Ant.0	Front Side 10mm	0.131	0.585	0.114	0.030	0.716	0.245	0.161
		Back Side 10mm	0.200	0.776	0.266	0.101	0.976	0.466	0.301
		Left Edge 10mm	0.050	0.366	0.255	0.053	0.416	0.305	0.103
		Right Edge 10mm	0.031	0.000	0.233	0.000	0.031	0.264	0.031
		Top Edge 10mm	0.000	0.405	0.233	0.050	0.405	0.233	0.050
		Bottom Edge 10mm	0.347	0.000	0.000	0.000	0.347	0.347	0.347
LTE B5	Ant.1	Front Side 10mm	0.253	0.585	0.114	0.030	0.838	0.367	0.283
		Back Side 10mm	0.307	0.776	0.266	0.101	1.083	0.573	0.408
		Left Edge 10mm	0.148	0.366	0.255	0.053	0.514	0.403	0.201
		Right Edge 10mm	0.118	0.000	0.233	0.000	0.118	0.351	0.118
		Top Edge 10mm	0.272	0.405	0.233	0.050	0.677	0.505	0.322
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B5	Ant.0	Front Side 10mm	0.176	0.585	0.114	0.030	0.761	0.290	0.206
		Back Side 10mm	0.301	0.776	0.266	0.101	1.077	0.567	0.402
		Left Edge 10mm	0.087	0.366	0.255	0.053	0.453	0.342	0.140
		Right Edge 10mm	0.160	0.000	0.233	0.000	0.160	0.393	0.160
		Top Edge 10mm	0.000	0.405	0.233	0.050	0.405	0.233	0.050
		Bottom Edge 10mm	0.270	0.000	0.000	0.000	0.270	0.270	0.270
LTE B7	Ant.1	Front Side 10mm	0.103	0.585	0.114	0.030	0.688	0.217	0.133
		Back Side 10mm	0.211	0.776	0.266	0.101	0.987	0.477	0.312
		Left Edge 10mm	0.003	0.366	0.255	0.053	0.369	0.258	0.056

		Right Edge 10mm	0.128	0.000	0.233	0.000	0.128	0.361	0.128
		Top Edge 10mm	0.156	0.405	0.233	0.050	0.561	0.389	0.206
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B7	Ant.0	Front Side 10mm	0.218	0.585	0.114	0.030	0.803	0.332	0.248
		Back Side 10mm	0.272	0.776	0.266	0.101	1.048	0.538	0.373
		Left Edge 10mm	0.152	0.366	0.255	0.053	0.518	0.407	0.205
		Right Edge 10mm	0.037	0.000	0.233	0.000	0.037	0.270	0.037
		Top Edge 10mm	0.000	0.405	0.233	0.050	0.405	0.233	0.050
		Bottom Edge 10mm	0.139	0.000	0.000	0.000	0.139	0.139	0.139
LTE B8	Ant.1	Front Side 10mm	0.293	0.585	0.114	0.030	0.878	0.407	0.323
		Back Side 10mm	0.333	0.776	0.266	0.101	1.109	0.599	0.434
		Left Edge 10mm	0.144	0.366	0.255	0.053	0.510	0.399	0.197
		Right Edge 10mm	0.115	0.000	0.233	0.000	0.115	0.348	0.115
		Top Edge 10mm	0.252	0.405	0.233	0.050	0.657	0.485	0.302
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B8	Ant.0	Front Side 10mm	0.149	0.585	0.114	0.030	0.734	0.263	0.179
		Back Side 10mm	0.265	0.776	0.266	0.101	1.041	0.531	0.366
		Left Edge 10mm	0.003	0.366	0.255	0.053	0.369	0.258	0.056
		Right Edge 10mm	0.075	0.000	0.233	0.000	0.075	0.308	0.075
		Top Edge 10mm	0.000	0.405	0.233	0.050	0.405	0.233	0.050
		Bottom Edge 10mm	0.280	0.000	0.000	0.000	0.280	0.280	0.280
LTE B12	Ant.1	Front Side 10mm	0.194	0.585	0.114	0.030	0.779	0.308	0.224
		Back Side 10mm	0.269	0.776	0.266	0.101	1.045	0.535	0.370
		Left Edge 10mm	0.190	0.366	0.255	0.053	0.556	0.445	0.243
		Right Edge 10mm	0.203	0.000	0.233	0.000	0.203	0.436	0.203
		Top Edge 10mm	0.223	0.405	0.233	0.050	0.628	0.456	0.273
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B12	Ant.0	Front Side 10mm	0.052	0.585	0.114	0.030	0.637	0.166	0.082
		Back Side 10mm	0.082	0.776	0.266	0.101	0.858	0.348	0.183
		Left Edge 10mm	0.059	0.366	0.255	0.053	0.425	0.314	0.112
		Right Edge 10mm	0.074	0.000	0.233	0.000	0.074	0.307	0.074
		Top Edge 10mm	0.000	0.405	0.233	0.050	0.405	0.233	0.050
		Bottom Edge 10mm	0.014	0.000	0.000	0.000	0.014	0.014	0.014
LTE B13	Ant.1	Front Side 10mm	0.137	0.585	0.114	0.030	0.722	0.251	0.167
		Back Side 10mm	0.156	0.776	0.266	0.101	0.932	0.422	0.257
		Left Edge 10mm	0.119	0.366	0.255	0.053	0.485	0.374	0.172
		Right Edge 10mm	0.118	0.000	0.233	0.000	0.118	0.351	0.118
		Top Edge 10mm	0.147	0.405	0.233	0.050	0.552	0.380	0.197
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B13	Ant.0	Front Side 10mm	0.070	0.585	0.114	0.030	0.655	0.184	0.100
		Back Side 10mm	0.097	0.776	0.266	0.101	0.873	0.363	0.198
		Left Edge 10mm	0.055	0.366	0.255	0.053	0.421	0.310	0.108
		Right Edge 10mm	0.085	0.000	0.233	0.000	0.085	0.318	0.085

		Top Edge 10mm	0.000	0.405	0.233	0.050	0.405	0.233	0.050
		Bottom Edge 10mm	0.089	0.000	0.000	0.000	0.089	0.089	0.089
LTE B17	Ant.1	Front Side 10mm	0.160	0.585	0.114	0.030	0.745	0.274	0.190
		Back Side 10mm	0.214	0.776	0.266	0.101	0.990	0.480	0.315
		Left Edge 10mm	0.168	0.366	0.255	0.053	0.534	0.423	0.221
		Right Edge 10mm	0.184	0.000	0.233	0.000	0.184	0.417	0.184
		Top Edge 10mm	0.198	0.405	0.233	0.050	0.603	0.431	0.248
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B17	Ant.0	Front Side 10mm	0.023	0.585	0.114	0.030	0.608	0.137	0.053
		Back Side 10mm	0.056	0.776	0.266	0.101	0.832	0.322	0.157
		Left Edge 10mm	0.003	0.366	0.255	0.053	0.369	0.258	0.056
		Right Edge 10mm	0.040	0.000	0.233	0.000	0.040	0.273	0.040
		Top Edge 10mm	0.000	0.405	0.233	0.050	0.405	0.233	0.050
		Bottom Edge 10mm	0.012	0.000	0.000	0.000	0.012	0.012	0.012
LTE B18	Ant.1	Front Side 10mm	0.335	0.585	0.114	0.030	0.920	0.449	0.365
		Back Side 10mm	0.409	0.776	0.266	0.101	1.185	0.675	0.510
		Left Edge 10mm	0.207	0.366	0.255	0.053	0.573	0.462	0.260
		Right Edge 10mm	0.152	0.000	0.233	0.000	0.152	0.385	0.152
		Top Edge 10mm	0.352	0.405	0.233	0.050	0.757	0.585	0.402
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B18	Ant.0	Front Side 10mm	0.123	0.585	0.114	0.030	0.708	0.237	0.153
		Back Side 10mm	0.259	0.776	0.266	0.101	1.035	0.525	0.360
		Left Edge 10mm	0.062	0.366	0.255	0.053	0.428	0.317	0.115
		Right Edge 10mm	0.132	0.000	0.233	0.000	0.132	0.365	0.132
		Top Edge 10mm	0.000	0.405	0.233	0.050	0.405	0.233	0.050
		Bottom Edge 10mm	0.177	0.000	0.000	0.000	0.177	0.177	0.177
LTE B19	Ant.1	Front Side 10mm	0.346	0.585	0.114	0.030	0.931	0.460	0.376
		Back Side 10mm	0.431	0.776	0.266	0.101	1.207	0.697	0.532
		Left Edge 10mm	0.209	0.366	0.255	0.053	0.575	0.464	0.262
		Right Edge 10mm	0.150	0.000	0.233	0.000	0.150	0.383	0.150
		Top Edge 10mm	0.360	0.405	0.233	0.050	0.765	0.593	0.410
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B19	Ant.0	Front Side 10mm	0.212	0.585	0.114	0.030	0.797	0.326	0.242
		Back Side 10mm	0.336	0.776	0.266	0.101	1.112	0.602	0.437
		Left Edge 10mm	0.102	0.366	0.255	0.053	0.468	0.357	0.155
		Right Edge 10mm	0.180	0.000	0.233	0.000	0.180	0.413	0.180
		Top Edge 10mm	0.000	0.405	0.233	0.050	0.405	0.233	0.050
		Bottom Edge 10mm	0.298	0.000	0.000	0.000	0.298	0.298	0.298
LTE B26	Ant.1	Front Side 10mm	0.203	0.585	0.114	0.030	0.788	0.317	0.233
		Back Side 10mm	0.325	0.776	0.266	0.101	1.101	0.591	0.426
		Left Edge 10mm	0.112	0.366	0.255	0.053	0.478	0.367	0.165
		Right Edge 10mm	0.082	0.000	0.233	0.000	0.082	0.315	0.082
		Top Edge 10mm	0.266	0.405	0.233	0.050	0.671	0.499	0.316

		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B26	Ant.0	Front Side 10mm	0.169	0.585	0.114	0.030	0.754	0.283	0.199
		Back Side 10mm	0.296	0.776	0.266	0.101	1.072	0.562	0.397
		Left Edge 10mm	0.083	0.366	0.255	0.053	0.449	0.338	0.136
		Right Edge 10mm	0.150	0.000	0.233	0.000	0.150	0.383	0.150
		Top Edge 10mm	0.000	0.405	0.233	0.050	0.405	0.233	0.050
		Bottom Edge 10mm	0.240	0.000	0.000	0.000	0.240	0.240	0.240
LTE B28	Ant.1	Front Side 10mm	0.172	0.585	0.114	0.030	0.757	0.286	0.202
		Back Side 10mm	0.231	0.776	0.266	0.101	1.007	0.497	0.332
		Left Edge 10mm	0.172	0.366	0.255	0.053	0.538	0.427	0.225
		Right Edge 10mm	0.189	0.000	0.233	0.000	0.189	0.422	0.189
		Top Edge 10mm	0.205	0.405	0.233	0.050	0.610	0.438	0.255
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B28	Ant.0	Front Side 10mm	0.039	0.585	0.114	0.030	0.624	0.153	0.069
		Back Side 10mm	0.055	0.776	0.266	0.101	0.831	0.321	0.156
		Left Edge 10mm	0.006	0.366	0.255	0.053	0.372	0.261	0.059
		Right Edge 10mm	0.053	0.000	0.233	0.000	0.053	0.286	0.053
		Top Edge 10mm	0.000	0.405	0.233	0.050	0.405	0.233	0.050
		Bottom Edge 10mm	0.022	0.000	0.000	0.000	0.022	0.022	0.022
LTE 66	Ant.1	Front Side 10mm	0.328	0.585	0.114	0.030	0.913	0.442	0.358
		Back Side 10mm	0.396	0.776	0.266	0.101	1.172	0.662	0.497
		Left Edge 10mm	0.370	0.366	0.255	0.053	0.736	0.625	0.423
		Right Edge 10mm	0.086	0.000	0.233	0.000	0.086	0.319	0.086
		Top Edge 10mm	0.382	0.405	0.233	0.050	0.787	0.615	0.432
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE 66	Ant.0	Front Side 10mm	0.358	0.585	0.114	0.030	0.943	0.472	0.388
		Back Side 10mm	0.501	0.776	0.266	0.101	1.277	0.767	0.602
		Left Edge 10mm	0.132	0.366	0.255	0.053	0.498	0.387	0.185
		Right Edge 10mm	0.085	0.000	0.233	0.000	0.085	0.318	0.085
		Top Edge 10mm	0.000	0.405	0.233	0.050	0.405	0.233	0.050
		Bottom Edge 10mm	0.969	0.000	0.000	0.000	0.969	0.969	0.969
LTE B38	Ant.1	Front Side 10mm	0.019	0.585	0.114	0.030	0.604	0.133	0.049
		Back Side 10mm	0.029	0.776	0.266	0.101	0.805	0.295	0.130
		Left Edge 10mm	0.000	0.366	0.255	0.053	0.366	0.255	0.053
		Right Edge 10mm	0.023	0.000	0.233	0.000	0.023	0.256	0.023
		Top Edge 10mm	0.024	0.405	0.233	0.050	0.429	0.257	0.074
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B38	Ant.0	Front Side 10mm	0.228	0.585	0.114	0.030	0.813	0.342	0.258
		Back Side 10mm	0.262	0.776	0.266	0.101	1.038	0.528	0.363
		Left Edge 10mm	0.150	0.366	0.255	0.053	0.516	0.405	0.203
		Right Edge 10mm	0.060	0.000	0.233	0.000	0.060	0.293	0.060
		Top Edge 10mm	0.000	0.405	0.233	0.050	0.405	0.233	0.050
		Bottom Edge 10mm	0.157	0.000	0.000	0.000	0.157	0.157	0.157

LTE B41	Ant.1	Front Side 10mm	0.039	0.585	0.114	0.030	0.624	0.153	0.069
		Back Side 10mm	0.068	0.776	0.266	0.101	0.844	0.334	0.169
		Left Edge 10mm	0.000	0.366	0.255	0.053	0.366	0.255	0.053
		Right Edge 10mm	0.053	0.000	0.233	0.000	0.053	0.286	0.053
		Top Edge 10mm	0.049	0.405	0.233	0.050	0.454	0.282	0.099
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B41	Ant.0	Front Side 10mm	0.091	0.585	0.114	0.030	0.676	0.205	0.121
		Back Side 10mm	0.103	0.776	0.266	0.101	0.879	0.369	0.204
		Left Edge 10mm	0.063	0.366	0.255	0.053	0.429	0.318	0.116
		Right Edge 10mm	0.030	0.000	0.233	0.000	0.030	0.263	0.030
		Top Edge 10mm	0.000	0.405	0.233	0.050	0.405	0.233	0.050
		Bottom Edge 10mm	0.075	0.000	0.000	0.000	0.075	0.075	0.075

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

12.2.4 Specific Simultaneous Transmission SAR Evaluation for WWAN and WLAN and BT

Band	Antenna	Position	Stand alone SAR				SUM SAR		
			1	2	3	4			
			WWAN	2.4GWIFI	5GWIFI Max.	Bluetooth	1+2	1+3	1+4
			State3	Level4	Level4				
WCDMA B2	Ant.1	Back Side 0mm	0.642	1.547	0.485	0.205	2.189	1.127	0.847
		Top Edge 10mm	0.461	1.069	0.261	0.112	1.530	0.722	0.573
WCDMA B4	Ant.0	Bottom Edge 0mm	0.809	0.000	0.000	0.000	0.809	0.809	0.809
LTE B2	Ant.1	Back Side 0mm	0.481	1.547	0.485	0.205	2.028	0.966	0.686
		Top Edge 10mm	0.370	1.069	0.261	0.112	1.439	0.631	0.482
LTE B4	Ant.0	Bottom Edge 0mm	0.779	0.000	0.000	0.000	0.779	0.779	0.779
LTE 66	Ant.0	Bottom Edge 0mm	2.195	0.000	0.000	0.000	2.195	2.195	2.195

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

13 TEST EQUIPMENTS LIST

Description	Manufacturer	Model	Serial No./Version	Cal. Date	Cal. Due
PC	Dell	N/A	N/A	N/A	N/A
Test Software	Speag	DASY8	16.2.2.1588	N/A	N/A
750MHz Validation Dipole	Speag	D750V3	SN: 1208	2024/08/19	2027/08/18
835MHz Validation Dipole	Speag	D835V2	SN: 4d187	2024/05/08	2027/05/07
1750MHz Validation Dipole	Speag	D1750V2	SN: 1130	2024/05/08	2027/05/07
1950MHz Validation Dipole	Speag	D1950V3	SN: 1240	2024/08/22	2027/08/21
2450MHz Validation Dipole	Speag	D2450V2	SN: 952	2024/05/07	2027/05/06
2600MHz Validation Dipole	Speag	D2600V2	SN: 1095	2024/05/08	2027/05/07
5GHz Validation Dipole	Speag	D5GHZV2	SN: 1200	2024/05/09	2027/05/08
Data Acquisition Electronics	Speag	DAE4	SN: 540	2024/02/22	2025/02/21
E-Field Probe	Speag	EX3DV4	SN: 7510	2024/06/25	2025/06/24
Signal Generator	R&S	SMB100A	177746	2024/04/24	2025/04/23
Power Meter	R&S	NRVD-B2	835843/014	2024/08/08	2025/08/07
Power Sensor	R&S	NRV-Z4	100381	2024/08/08	2025/08/07
Power Sensor	R&S	NRV-Z2	100211	2024/08/08	2025/08/07
Wireless Communication Test Set	Anritsu	MT8820C	6201144551	2024/05/14	2025/05/13
Network Analyzer	Agilent	E5071C	MY46103472	2024/09/11	2025/09/10
Thermometer	Elitech	RC-4HC	EF7239002655	2024/10/31	2025/10/30
Thermometer	Elitech	RC-4HC	EF7216002974	2024/10/31	2025/10/30
Power Amplifier	Mini-Circuits	ZVA-183W-S+	932502132	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 DAK 3.5 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 (%)
2025.01.28	Head	750	21.3	0.91	40.56	0.89	41.94	2.25	-3.29
2025.01.29	Head	750	21.5	0.89	42.13	0.89	41.94	0.00	0.45
2025.01.30	Head	835	21.5	0.89	41.55	0.90	41.50	-1.11	0.12
2025.01.31	Head	835	21.4	0.90	41.76	0.90	41.50	0.00	0.63
2025.02.01	Head	835	21.7	0.89	41.22	0.90	41.50	-1.11	-0.67
2025.02.02	Head	835	21.5	0.92	42.33	0.90	41.50	2.22	2.00
2025.02.03	Head	835	21.6	0.91	42.32	0.90	41.50	1.11	1.98
2025.02.04	Head	1750	21.5	1.39	39.43	1.37	40.08	1.46	-1.62
2025.02.05	Head	1750	21.3	1.41	39.19	1.37	40.08	2.92	-2.22
2025.02.06	Head	1950	21.5	1.45	39.50	1.40	40.00	3.57	-1.25
2025.02.07	Head	1950	21.3	1.42	39.84	1.40	40.00	1.43	-0.40
2025.02.08	Head	2450	21.6	1.84	39.36	1.80	39.20	2.22	0.41
2025.02.09	Head	2600	21.6	1.97	38.52	1.96	39.01	0.51	-1.26
2025.02.10	Head	2600	21.4	1.93	37.88	1.96	39.01	-1.53	-2.90
2025.02.11	Head	2600	21.7	1.91	38.66	1.96	39.01	-2.55	-0.90
2025.02.12	Head	5250	21.8	4.60	37.03	4.71	35.93	-2.34	3.06
2025.02.13	Head	5600	21.3	5.08	35.40	5.07	35.53	0.20	-0.37
2025.02.14	Head	5750	21.4	5.18	35.55	5.22	35.36	-0.77	0.54

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 (%)
2025.01.28	Head	750	100	0.84	8.35	8.46	-1.30
2025.01.29	Head	750	100	0.84	8.37	8.46	-1.06
2025.01.30	Head	835	100	0.93	9.32	9.74	-4.31
2025.01.31	Head	835	100	0.94	9.36	9.74	-3.90
2025.02.01	Head	835	100	1.02	10.20	9.74	4.72
2025.02.02	Head	835	100	1.00	9.98	9.74	2.46
2025.02.03	Head	835	100	1.01	10.10	9.74	3.70
2025.02.04	Head	1750	100	3.64	36.40	37.00	-1.62
2025.02.05	Head	1750	100	3.52	35.20	37.00	-4.86
2025.02.06	Head	1950	100	4.12	41.20	41.70	-1.20
2025.02.07	Head	1950	100	3.97	39.70	41.70	-4.80
2025.02.08	Head	2450	100	5.25	52.50	52.60	-0.19
2025.02.09	Head	2600	100	5.42	54.20	55.90	-3.04
2025.02.10	Head	2600	100	5.32	53.20	55.90	-4.83
2025.02.11	Head	2600	100	5.75	57.50	55.90	2.86
2025.02.12	Head	5250	100	7.94	79.40	77.70	2.19
2025.02.13	Head	5600	100	7.96	79.60	81.30	-2.09
2025.02.14	Head	5750	100	7.87	78.70	77.60	1.42

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

Head liquid 10g

Date	Liquid Type	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)
2025.02.04	Head	1750	100	1.94	19.40	19.70	-1.52
2025.02.05	Head	1750	100	1.91	19.10	19.70	-3.05
2025.02.06	Head	1950	100	2.16	21.60	21.70	-0.46
2025.02.07	Head	1950	100	2.12	21.20	21.70	-2.30
2025.02.08	Head	2450	100	2.45	24.50	24.70	-0.81
2025.02.12	Head	5250	100	2.26	22.60	22.00	2.73
2025.02.13	Head	5600	100	2.25	22.50	23.10	-2.60

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

System Performance Check Data (750MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL		CD750	CW, 0--	750.0, 100	10.29	0.914	40.6	22.2	21.3

Hardware Setup

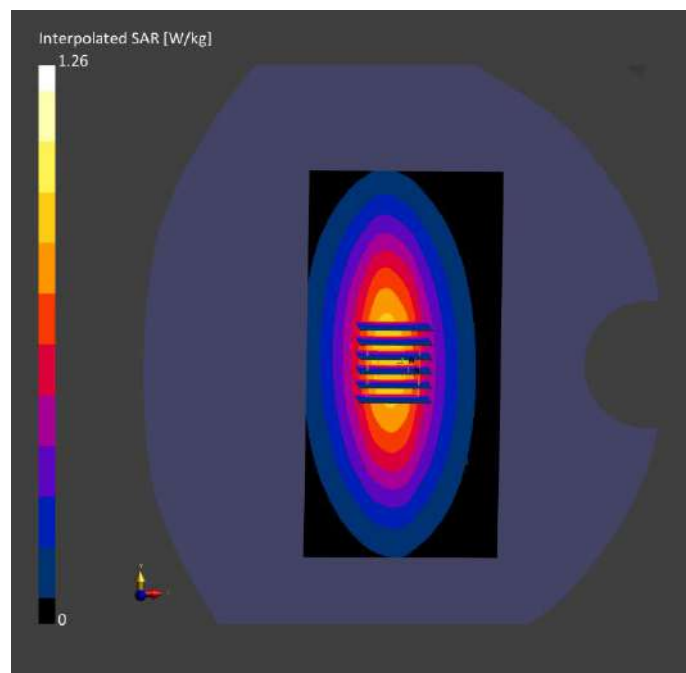
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000	2025-01-28	EX3DV4 - SN7510,	2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 160.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-01-28	2025-01-28
psSAR1g [W/kg]	0.843	0.835
psSAR10g [W/kg]	0.565	0.565
Power Drift [dB]	0.04	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		86.6
Dist 3dB Peak [mm]		20.2



System Performance Check Data (750MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL		CD750	CW, 0--	750.0, 100	10.29	0.886	42.1	22.3	21.5

Hardware Setup

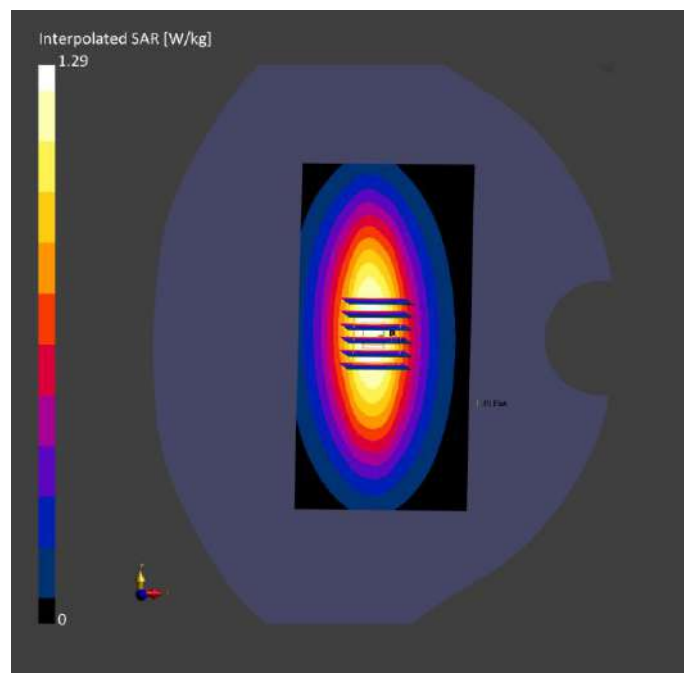
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Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000	2025-01-29	EX3DV4 - SN7510,	2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 160.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-01-29	2025-01-29
psSAR1g [W/kg]	0.855	0.837
psSAR10g [W/kg]	0.558	0.567
Power Drift [dB]	-0.03	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		86.1
Dist 3dB Peak [mm]		20.3



System Performance Check Data (835MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL		CD835	CW, 0--	835.0, 50	9.99	0.890	41.5	22.4	21.5

Hardware Setup

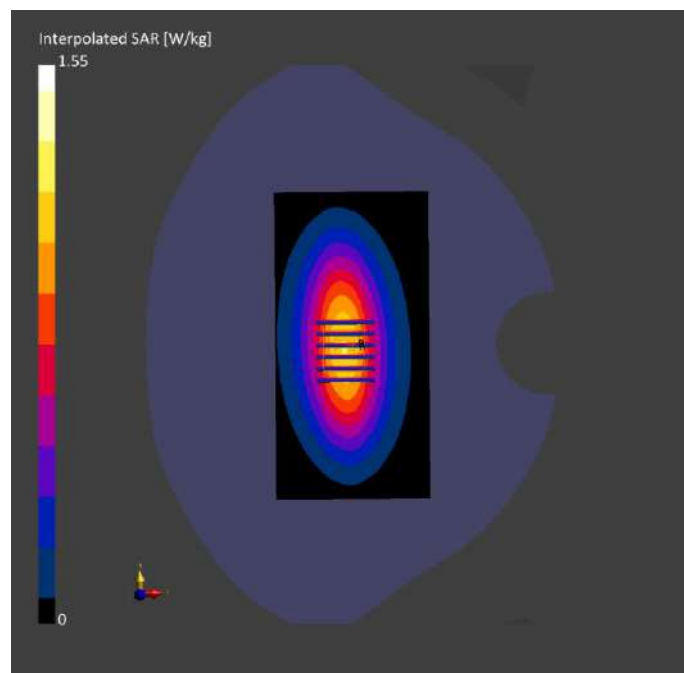
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000	2025-01-30	EX3DV4 - SN7510,	2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 160.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-01-30	2025-01-30
psSAR1g [W/kg]	0.946	0.932
psSAR10g [W/kg]	0.625	0.625
Power Drift [dB]	0.01	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.8
Dist 3dB Peak [mm]		12.3



System Performance Check Data (835MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL		CD835	CW, 0--	835.0, 50	9.99	0.896	41.8	22.2	21.4

Hardware Setup

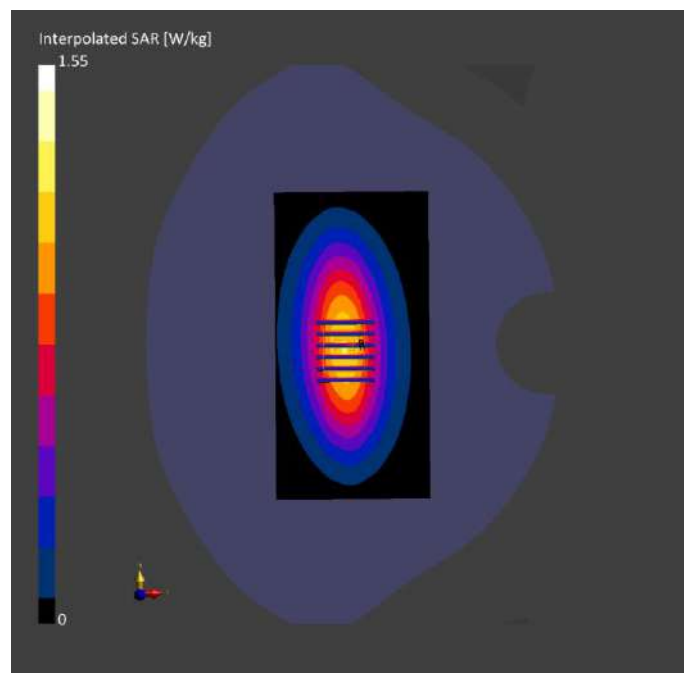
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000	2025-01-31	EX3DV4 - SN7510,	2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 160.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-01-31	2025-01-31
psSAR1g [W/kg]	0.946	0.936
psSAR10g [W/kg]	0.618	0.617
Power Drift [dB]	0.05	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.7
Dist 3dB Peak [mm]		12.2



System Performance Check Data (835MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL		CD835	CW, 0--	835.0, 50	9.99	0.893	41.2	22.6	21.7

Hardware Setup

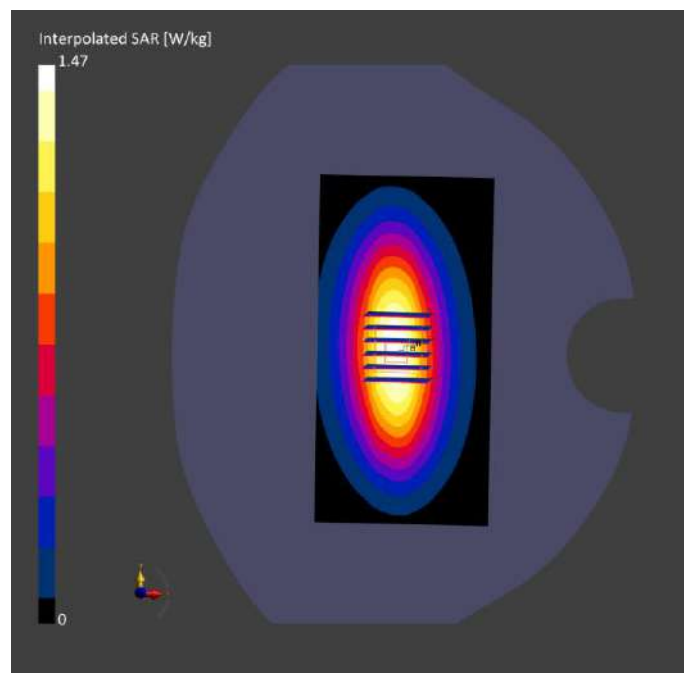
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000	2025-02-01	EX3DV4 - SN7510,	2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 160.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-01	2025-02-01
psSAR1g [W/kg]	0.959	1.02
psSAR10g [W/kg]	0.638	0.664
Power Drift [dB]	-0.02	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		84.6
Dist 3dB Peak [mm]		13.1



System Performance Check Data (835MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL		CD835	CW, 0--	835.0, 50	9.99	0.920	42.3	22.2	21.5

Hardware Setup

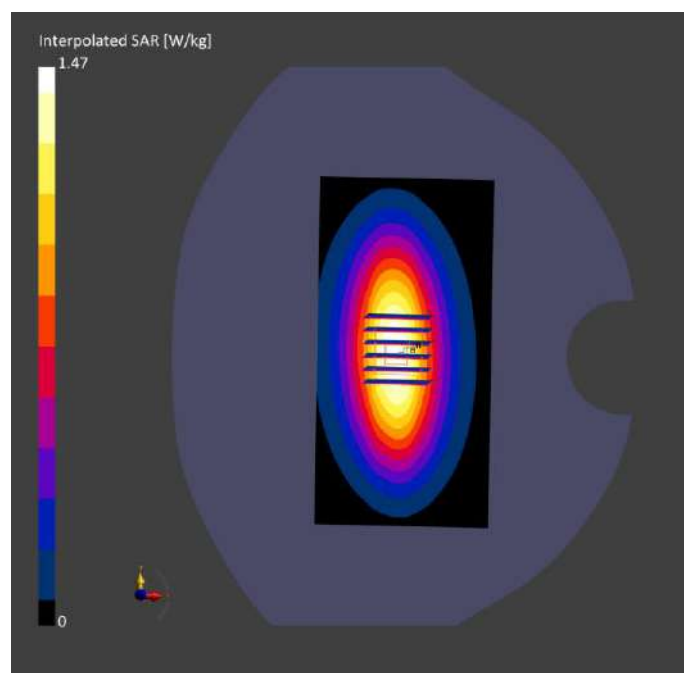
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000	2025-02-02	EX3DV4 - SN7510,	2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 160.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-02	2025-02-02
psSAR1g [W/kg]	0.963	0.998
psSAR10g [W/kg]	0.622	0.662
Power Drift [dB]	-0.03	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		84.1
Dist 3dB Peak [mm]		13.2



System Performance Check Data (835MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL		CD835	CW, 0--	835.0, 50	9.99	0.912	42.3	22.6	21.6

Hardware Setup

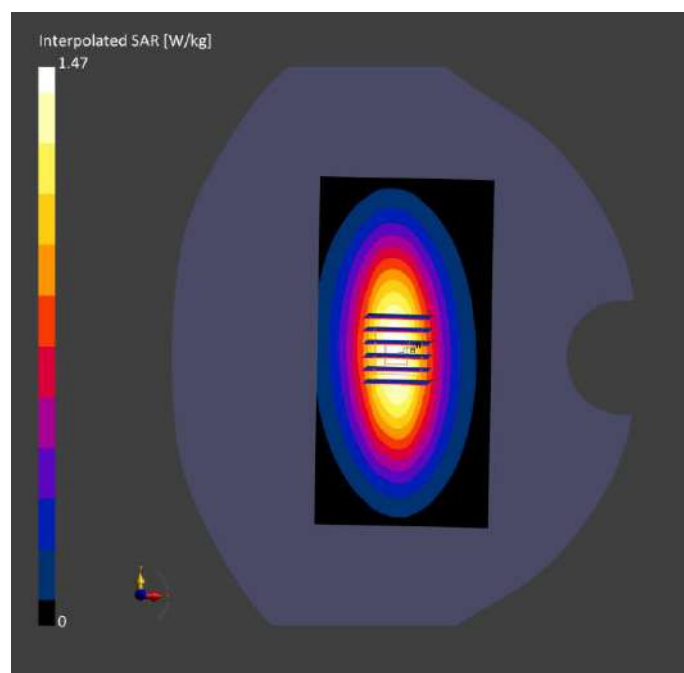
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000	2025-02-03	EX3DV4 - SN7510,	2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 160.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-03	2025-02-03
psSAR1g [W/kg]	0.996	1.01
psSAR10g [W/kg]	0.655	0.666
Power Drift [dB]	-0.01	-0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		84.2
Dist 3dB Peak [mm]		13.1



System Performance Check Data (1750MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL		D1750	CW, 0--	1750.0, 50	8.67	1.39	39.4	22.5	21.5

Hardware Setup

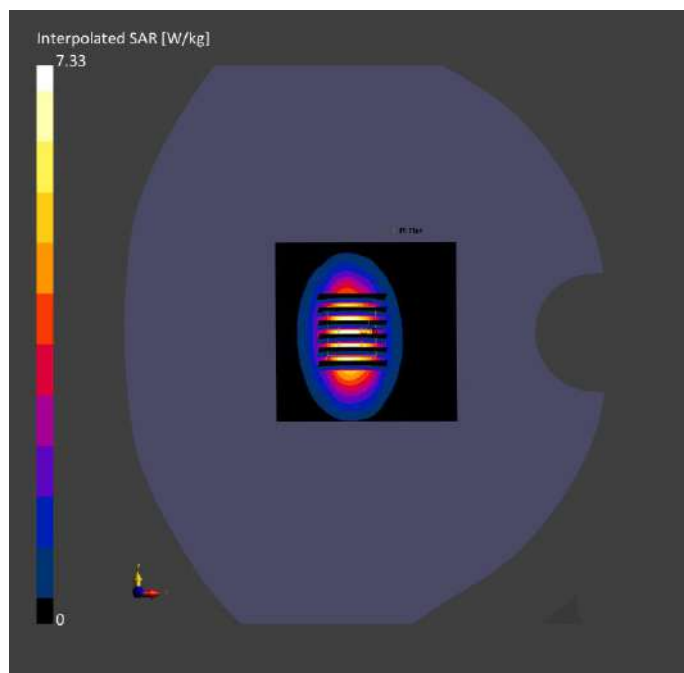
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000	2025-02-04	EX3DV4 - SN7510,	2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-04	2025-02-04
psSAR1g [W/kg]	3.57	3.64
psSAR10g [W/kg]	1.79	1.94
Power Drift [dB]	-0.09	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		82.6
Dist 3dB Peak [mm]		9.2



System Performance Check Data (1750MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL		D1750	CW, 0--	1750.0, 50	8.67	1.41	39.2	22.2	21.3

Hardware Setup

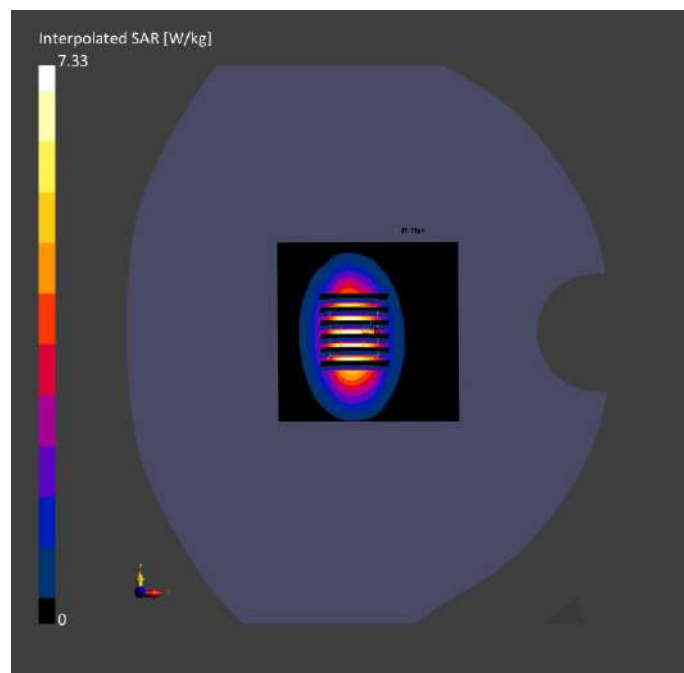
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000	2025-02-05	EX3DV4 - SN7510, 2024-06-25		DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-05	2025-02-05
psSAR1g [W/kg]	3.63	3.52
psSAR10g [W/kg]	1.81	1.91
Power Drift [dB]	-0.05	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		82.6
Dist 3dB Peak [mm]		9.1



System Performance Check Data (1950MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL		D1950	CW, 0--	1950.0, 50	8.33	1.45	39.5	22.3	21.5

Hardware Setup

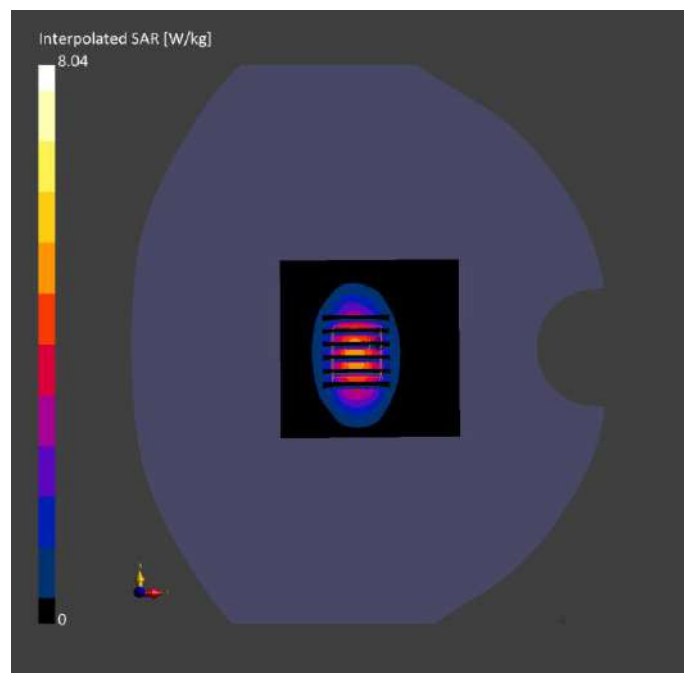
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000	2025-02-06	EX3DV4 - SN7510,	2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-06	2025-02-06
psSAR1g [W/kg]	3.88	4.12
psSAR10g [W/kg]	1.92	2.16
Power Drift [dB]	0.01	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.7
Dist 3dB Peak [mm]		9.4



System Performance Check Data (1950MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		D1950	CW, 0--	1950.0, 50	8.33	1.42	39.8	22.1	21.3

Hardware Setup

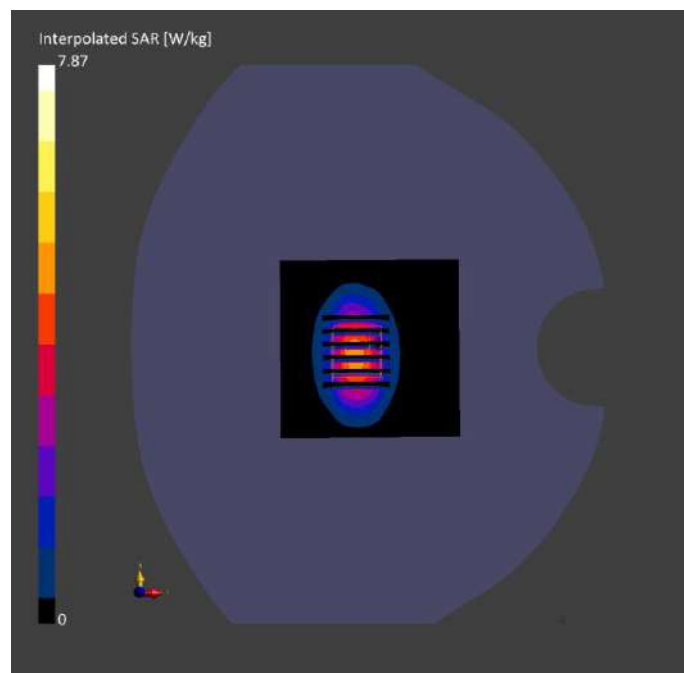
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000	2025-02-07	EX3DV4 - SN7510, 2024-06-25		DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-07	2025-02-07
psSAR1g [W/kg]	4.01	3.97
psSAR10g [W/kg]	2.15	2.12
Power Drift [dB]	0.05	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.6
Dist 3dB Peak [mm]		9.7



System Performance Check Data (2450MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL		D2450	CW, 0--	2450.0, 50	7.75	1.84	39.4	22.5	21.6

Hardware Setup

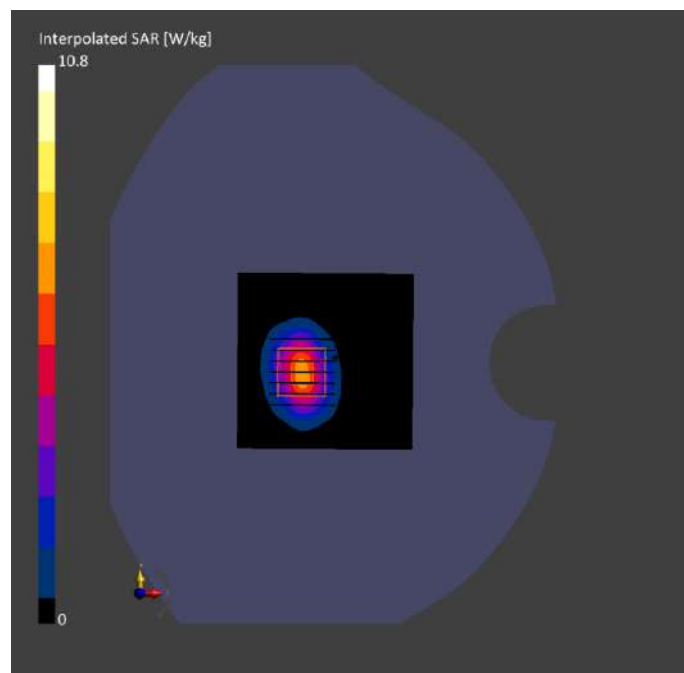
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000	2025-02-08	EX3DV4 - SN7510,	2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-08	2025-02-08
psSAR1g [W/kg]	5.12	5.25
psSAR10g [W/kg]	2.29	2.45
Power Drift [dB]	0.06	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.6
Dist 3dB Peak [mm]		9.4



System Performance Check Data (2600MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		CD2600	CW, 0--	2600.0, 50	7.59	1.97	38.5	22.5	21.6

Hardware Setup

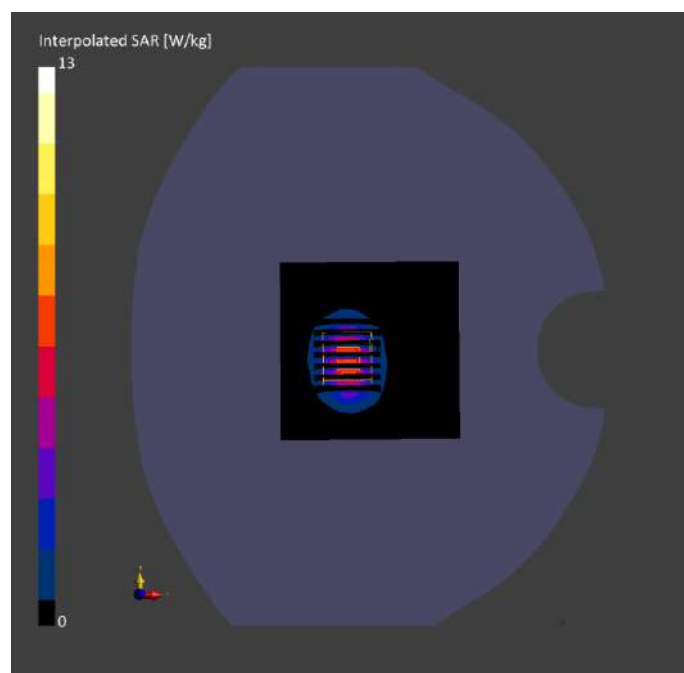
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date	
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000	2025-02-09	EX3DV4 - SN7510,	2024-06-25	DAE4 Sn540,	2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-09	2025-02-09
psSAR1g [W/kg]	5.39	5.42
psSAR10g [W/kg]	2.48	2.44
Power Drift [dB]	0.04	0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		79.4
Dist 3dB Peak [mm]		8.9



System Performance Check Data (2600MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		CD2600	CW, 0--	2600.0, 50	7.59	1.93	37.9	22.3	21.4

Hardware Setup

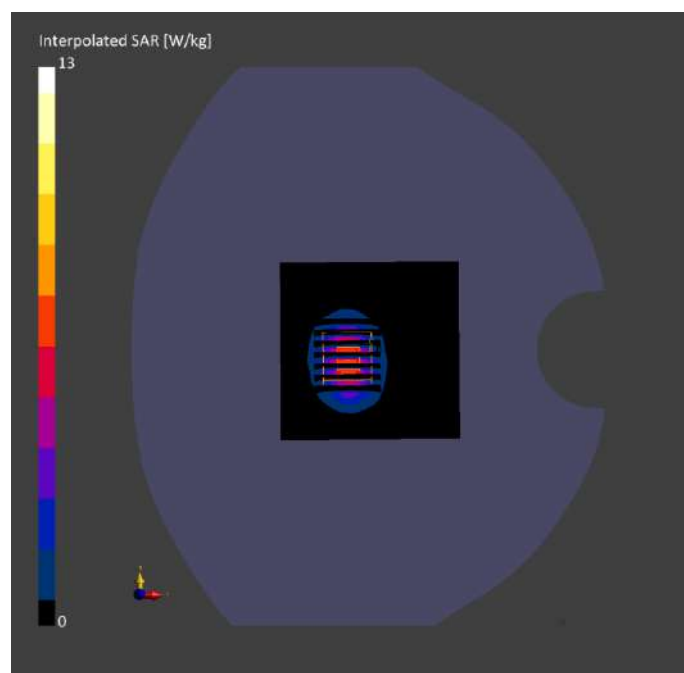
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date	
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000	2025-02-10	EX3DV4 - SN7510,	2024-06-25	DAE4 Sn540,	2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-10	2025-02-10
psSAR1g [W/kg]	5.38	5.32
psSAR10g [W/kg]	2.41	2.42
Power Drift [dB]	0.02	0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		79.8
Dist 3dB Peak [mm]		8.8



System Performance Check Data (2600MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		CD2600	CW, 0--	2600.0, 50	7.59	1.91	38.7	22.6	21.7

Hardware Setup

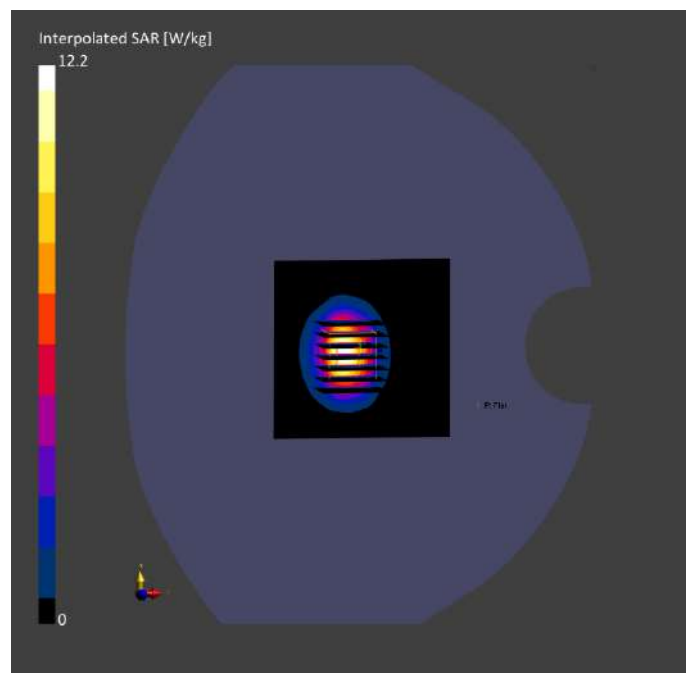
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date	
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000	2025-02-11	EX3DV4 - SN7510,	2024-06-25	DAE4 Sn540,	2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-11	2025-02-11
psSAR1g [W/kg]	5.58	5.75
psSAR10g [W/kg]	2.43	2.56
Power Drift [dB]	-0.04	-0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		79.7
Dist 3dB Peak [mm]		8.9



System Performance Check Data (5250MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL		D5GHz	CW, 0--	5250.0, 25	5.74	4.60	37.0	22.7	21.8

Hardware Setup

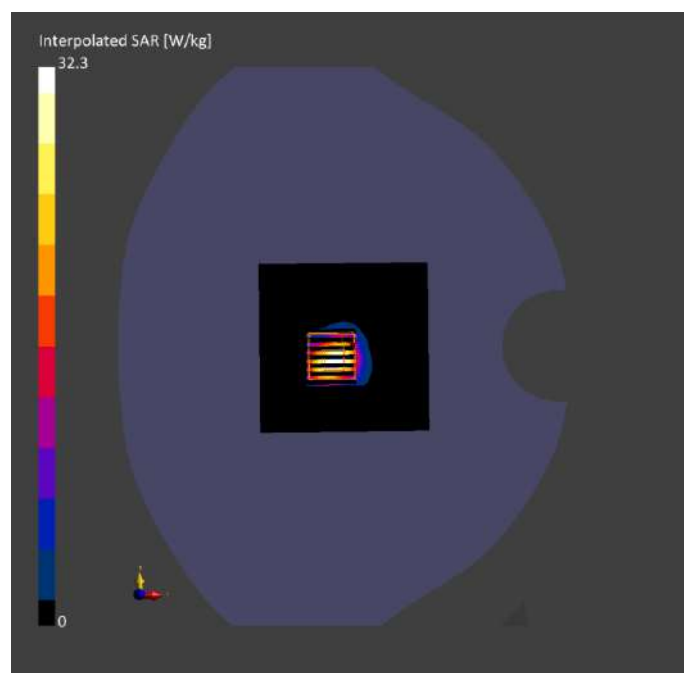
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000	2025-02-12	EX3DV4 - SN7510,	2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-12	2025-02-12
psSAR1g [W/kg]	7.65	7.94
psSAR10g [W/kg]	2.14	2.26
Power Drift [dB]	-0.01	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		69.5
Dist 3dB Peak [mm]		7.5



System Performance Check Data (5600MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL		D5GHz	CW, 0--	5600.0, 60	5.00	5.08	35.4	22.2	21.3

Hardware Setup

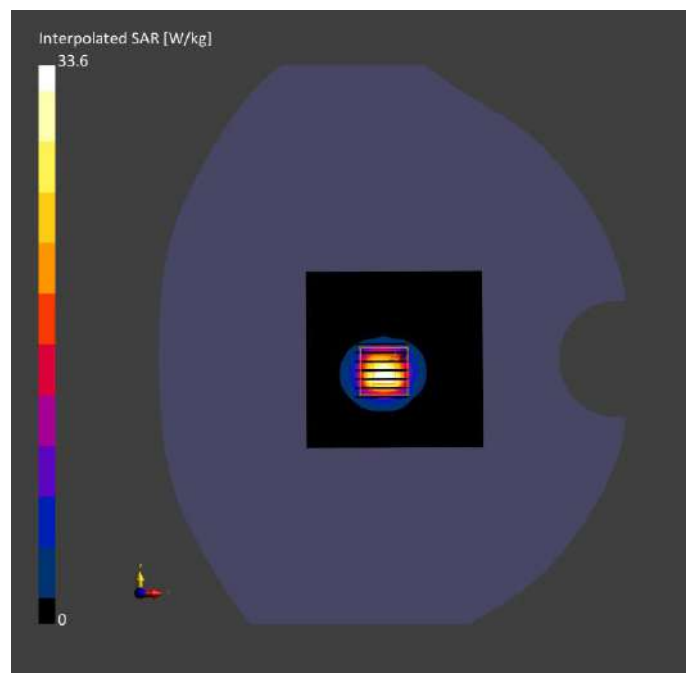
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000	2025-02-13	EX3DV4 - SN7510,	2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-13	2025-02-13
psSAR1g [W/kg]	7.95	7.96
psSAR10g [W/kg]	2.15	2.25
Power Drift [dB]	0.02	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		64.3
Dist 3dB Peak [mm]		7.7



System Performance Check Data (5750MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL		D5GHz	CW, 0--	5750.0, 75	5.04	5.18	35.5	22.2	21.4

Hardware Setup

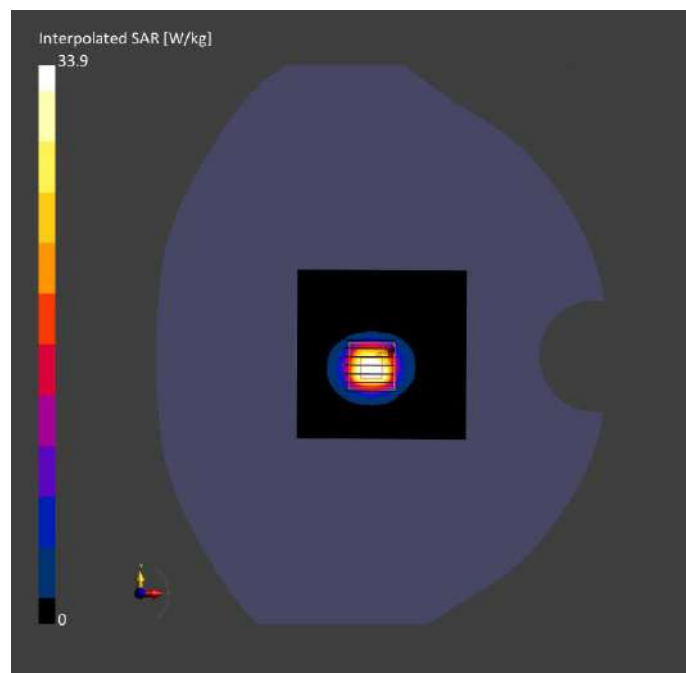
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000	2025-02-14	EX3DV4 - SN7510,	2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-14	2025-02-14
psSAR1g [W/kg]	7.63	7.87
psSAR10g [W/kg]	2.08	2.21
Power Drift [dB]	-0.08	-0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		61.2
Dist 3dB Peak [mm]		7.7



ANNEX C TEST DATA

Meas.1 Right Head with Cheek on Middle Channel in GPRS850 3slots mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
RightHead, HSL	CHEEK, 0.00	GSM 850	GSM, 10024-DAC	836.6, 190	9.99	0.904	40.3	22.4	21.5

Hardware Setup

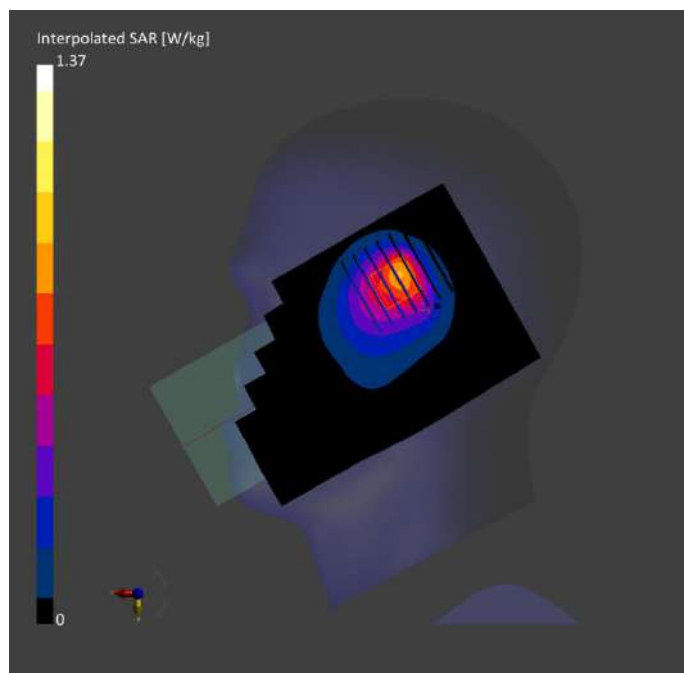
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date	
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000	2025-01-30	EX3DV4 - SN7510,	2024-06-25	DAE4 Sn540,	2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-01-30	2025-01-30
psSAR1g [W/kg]	0.765	0.730
psSAR10g [W/kg]	0.486	0.472
Power Drift [dB]	-0.07	0.09
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		47.1
Dist 3dB Peak [mm]		8.0



Meas.2 Body Plane with Back Side 15mm on High Channel in GPRS850 3Slots mode with Antenna 0

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL	BACK, 15.00	GSM 850	GSM, 10024-DAC	848.8, 251	9.99	0.934	40.2	22.4	21.5

Hardware Setup

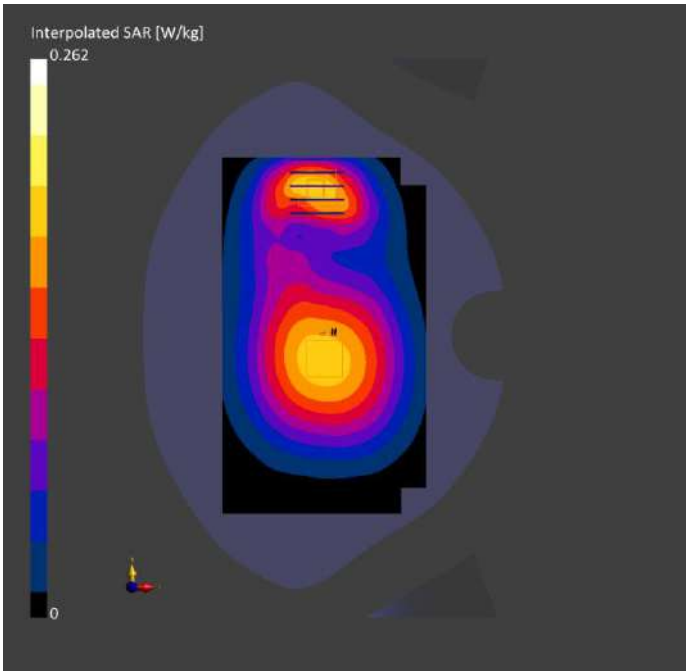
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-01-30	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-01-30	2025-01-30
psSAR1g [W/kg]	0.170	0.176
psSAR10g [W/kg]	0.118	0.112
Power Drift [dB]	0.06	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		66.4
Dist 3dB Peak [mm]		14.5



Meas.3 Body Plane with Back Side 10mm on High Channel in GPRS850 3Slots mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 10.00	GSM 850	GSM, 10024-DAC	848.8, 251	9.99	0.934	40.2	22.4	21.5

Hardware Setup

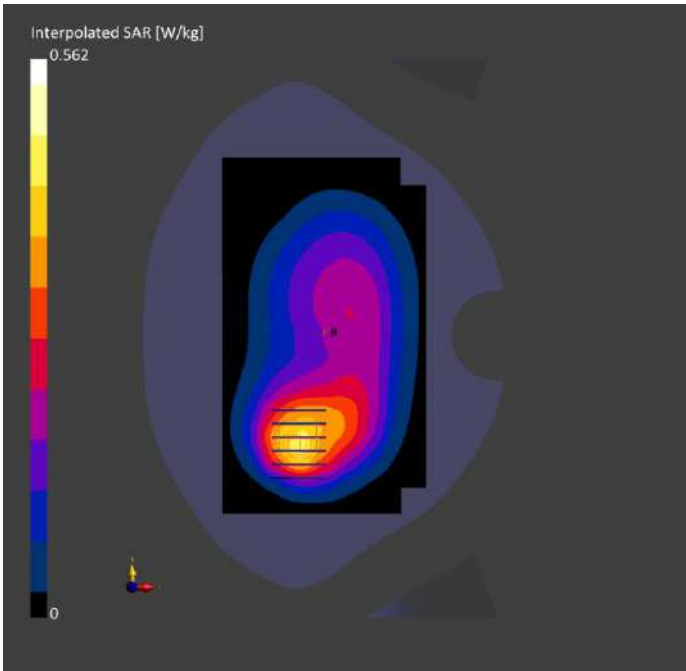
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-01-30	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-01-30	2025-01-30
psSAR1g [W/kg]	0.385	0.377
psSAR10g [W/kg]	0.263	0.252
Power Drift [dB]	-0.02	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		64.7
Dist 3dB Peak [mm]		14.8



Meas.4 Right Head with Cheek on Low Channel in GPRS900 3slots mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
RightHead, HSL	CHEEK, 0.00	E-GSM 900	GSM, 10024-DAC	880.2, 975	9.99	0.917	41.7	22.6	21.6

Hardware Setup

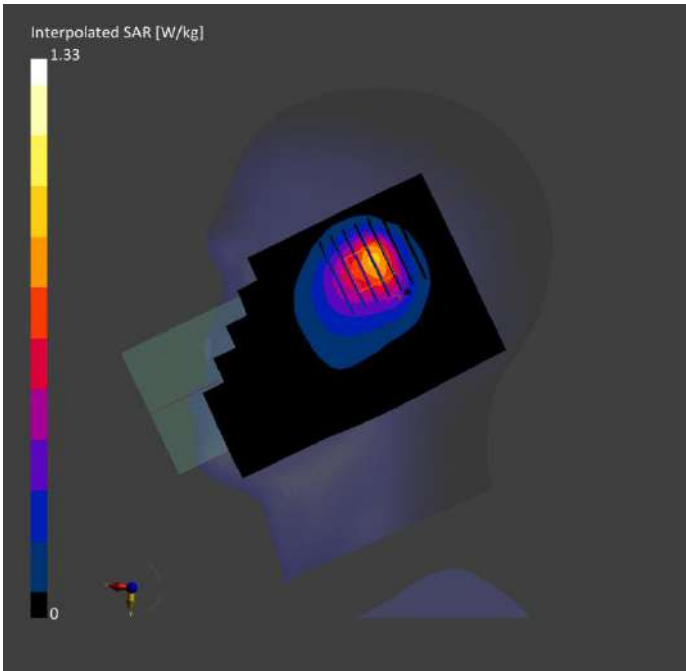
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-03	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-03	2025-02-03
psSAR1g [W/kg]	0.775	0.726
psSAR10g [W/kg]	0.489	0.467
Power Drift [dB]	0.01	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		48.3
Dist 3dB Peak [mm]		8.0



Meas.5 Body Plane with Back Side 15mm on Low Channel in GPRS900 3Slots mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL	BACK, 15.00	E-GSM 900	GSM, 10024-DAC	880.2, 975	9.99	0.917	41.7	22.6	21.6

Hardware Setup

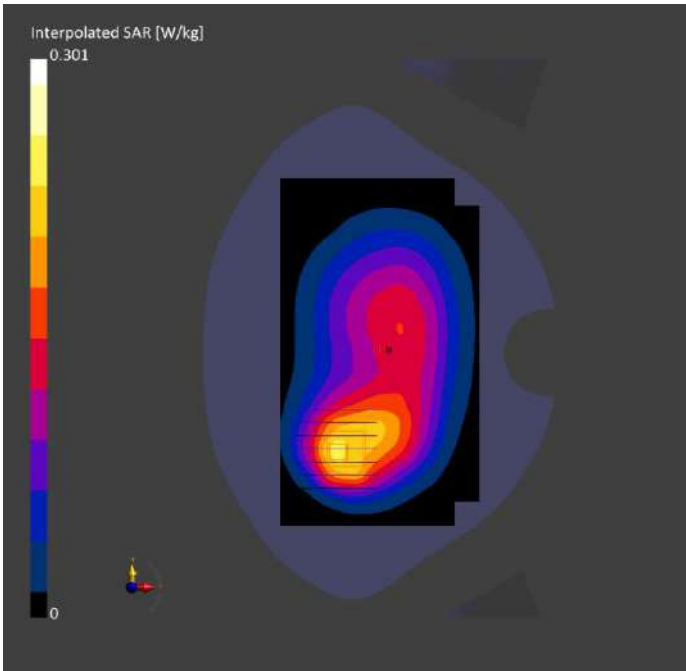
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-03	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-03	2025-02-03
psSAR1g [W/kg]	0.204	0.202
psSAR10g [W/kg]	0.138	0.136
Power Drift [dB]	-0.07	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		65.5
Dist 3dB Peak [mm]		16.0



Meas.6 Body Plane with Back Side 10mm on Low Channel in GPRS900 3Slots mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL	BACK, 10.00	E-GSM 900	GSM, 10024-DAC	880.2, 975	9.99	0.917	41.7	22.6	21.6

Hardware Setup

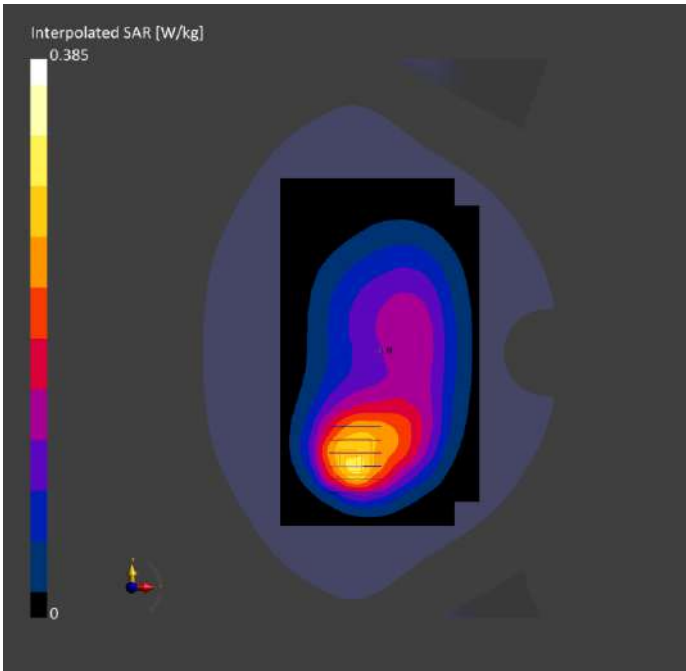
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-03	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-03	2025-02-03
psSAR1g [W/kg]	0.262	0.255
psSAR10g [W/kg]	0.178	0.171
Power Drift [dB]	0.00	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		64.4
Dist 3dB Peak [mm]		13.6



Meas.7 Right Head with Tilt on Low Channel in GPRS1900 3slots mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
RightHead, HSL	TILT, 0.00	PCS 1900	GSM, 10024-DAC	1850.2, 512	8.33	1.37	41.3	22.3	21.5

Hardware Setup

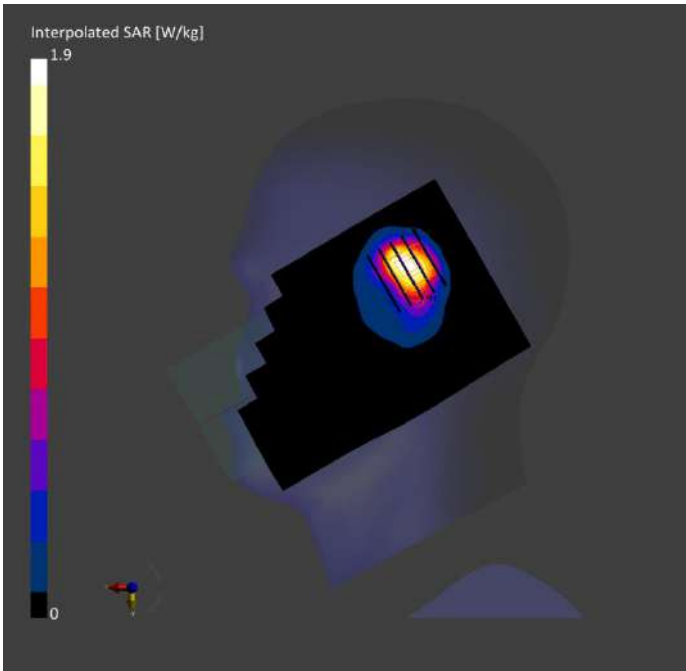
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-06	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-06	2025-02-06
psSAR1g [W/kg]	0.760	1.06
psSAR10g [W/kg]	0.417	0.507
Power Drift [dB]	-0.01	0.10
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		52.0
Dist 3dB Peak [mm]		8.0



Meas.8 Body Plane with Back Side 15mm on Low Channel in GPRS1900 3Slots mode with Antenna 1
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL	BACK, 15.00	PCS 1900	GSM, 10024-DAC	1850.2, 512	8.33	1.37	41.3	22.3	21.5

Hardware Setup

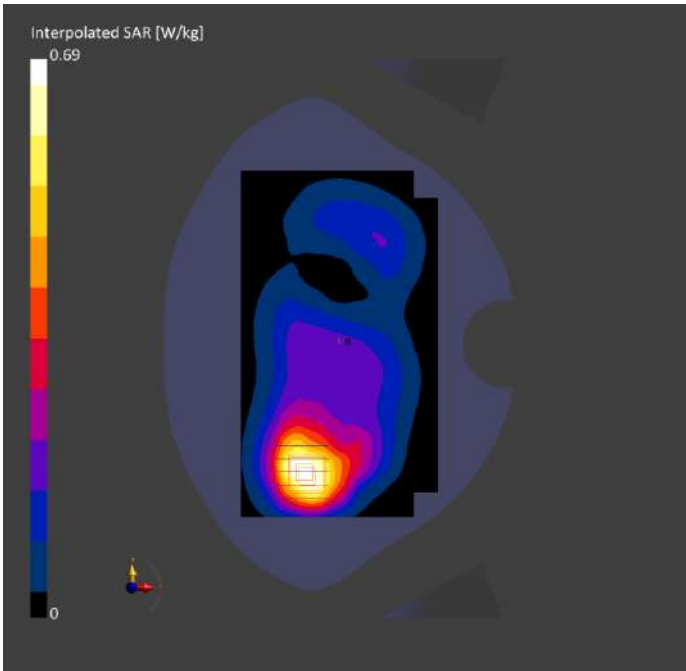
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-06	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-06	2025-02-06
psSAR1g [W/kg]	0.402	0.444
psSAR10g [W/kg]	0.242	0.267
Power Drift [dB]	0.00	-0.16
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		63.1
Dist 3dB Peak [mm]		14.8



Meas.9 Body Plane with Bottom Edge 10mm on Low Channel in GPRS1900 3Slots mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE BOTTOM, 10.00	PCS 1900	GSM, 10024-DAC	1850.2, 512	8.33	1.37	41.3	22.3	21.5

Hardware Setup

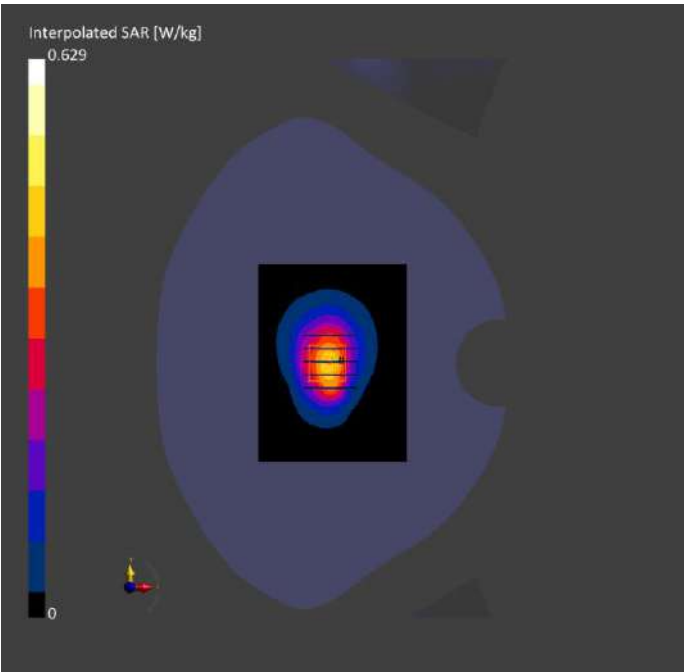
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-06	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-06	2025-02-06
psSAR1g [W/kg]	0.388	0.410
psSAR10g [W/kg]	0.219	0.243
Power Drift [dB]	-0.02	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		64.7
Dist 3dB Peak [mm]		11.6



Meas.10 Right Head with Tilt on Low Channel in WCDMA Band2 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
RightHead, HSL	TILT, 0.00	Band 2	WCDMA, 10011-CAC	1852.4, 9262	8.33	1.39	40.6	22.3	21.5

Hardware Setup

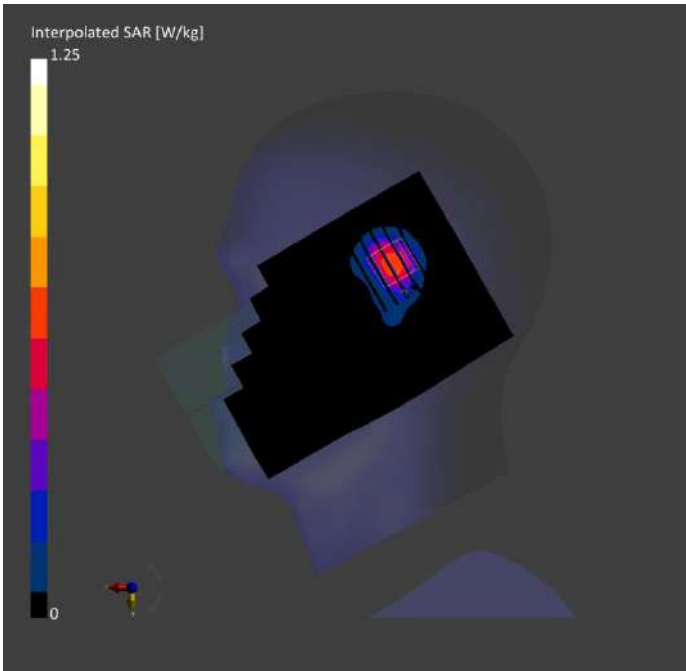
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-06	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-06	2025-02-06
psSAR1g [W/kg]	0.576	0.693
psSAR10g [W/kg]	0.297	0.329
Power Drift [dB]	0.03	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		52.6
Dist 3dB Peak [mm]		8.0



Meas.11 Body Plane with Back Side 15mm on Low Channel in WCDMA Band2 mode with Antenna 1
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL	BACK, 15.00	Band 2	WCDMA, 10457-AAB	1852.4, 9262	8.33	1.39	40.6	22.3	21.5

Hardware Setup

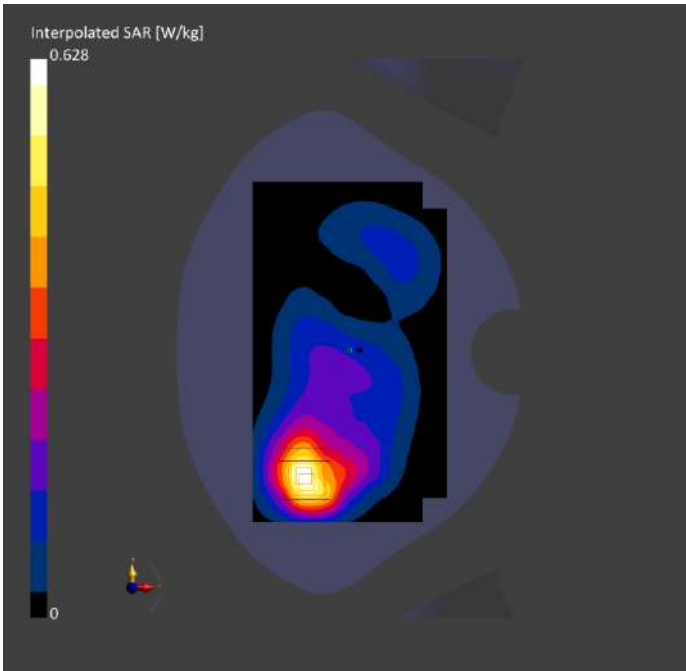
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-06	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-06	2025-02-06
psSAR1g [W/kg]	0.380	0.402
psSAR10g [W/kg]	0.219	0.241
Power Drift [dB]	0.15	-0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		64.2
Dist 3dB Peak [mm]		13.6



Meas.12 Body Plane with Bottom Edge 10mm on Low Channel in WCDMA Band2 mode with Antenna 1
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL	EDGE BOTTOM, 10.00	Band 2	WCDMA, 10457-AAB	1852.4, 9262	8.33	1.39	40.6	22.3	21.5

Hardware Setup

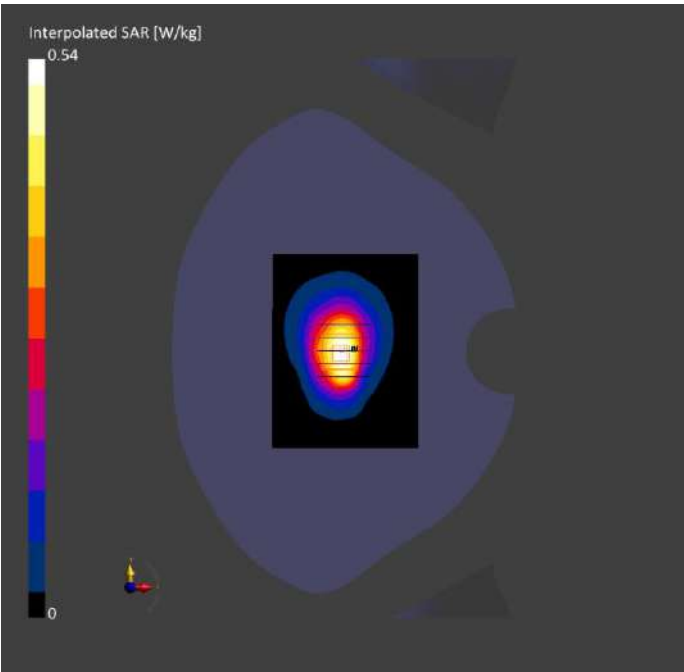
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-06	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-06	2025-02-06
psSAR1g [W/kg]	0.330	0.353
psSAR10g [W/kg]	0.186	0.208
Power Drift [dB]	0.03	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		64.8
Dist 3dB Peak [mm]		11.5



Meas.13 Body Plane with Back Side 0mm on Low Channel in WCDMA Band2 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 0.00	Band 2	WCDMA, 10011-CAC	1852.4, 9262	8.33	1.39	40.6	22.3	21.5

Hardware Setup

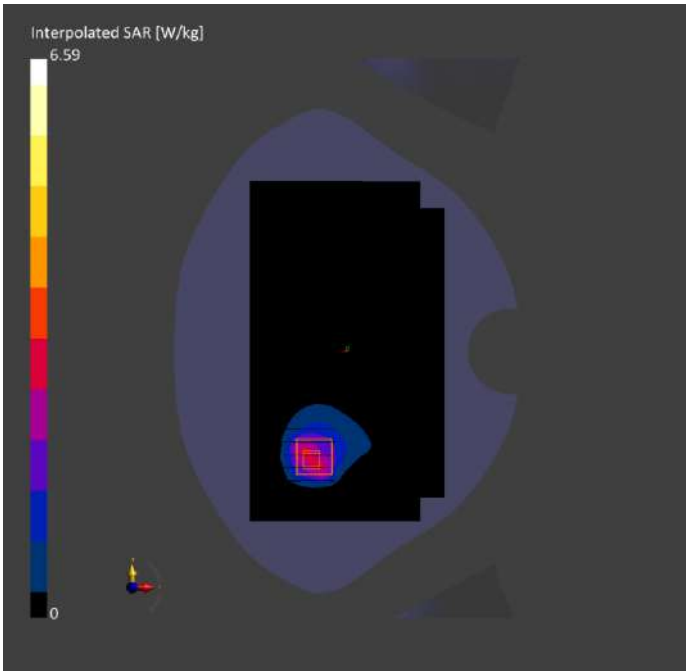
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-06	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-06	2025-02-06
psSAR1g [W/kg]	2.46	3.12
psSAR10g [W/kg]	1.37	1.50
Power Drift [dB]	-0.08	-0.17
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		39.9
Dist 3dB Peak [mm]		8.0



Meas.14 Right Head with Cheek on High Channel in WCDMA Band4 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
RightHead, HSL	CHEEK, 0.00	Band 4	WCDMA, 10011-CAC	1752.6, 1513	8.67	1.39	39.1	22.5	21.5

Hardware Setup

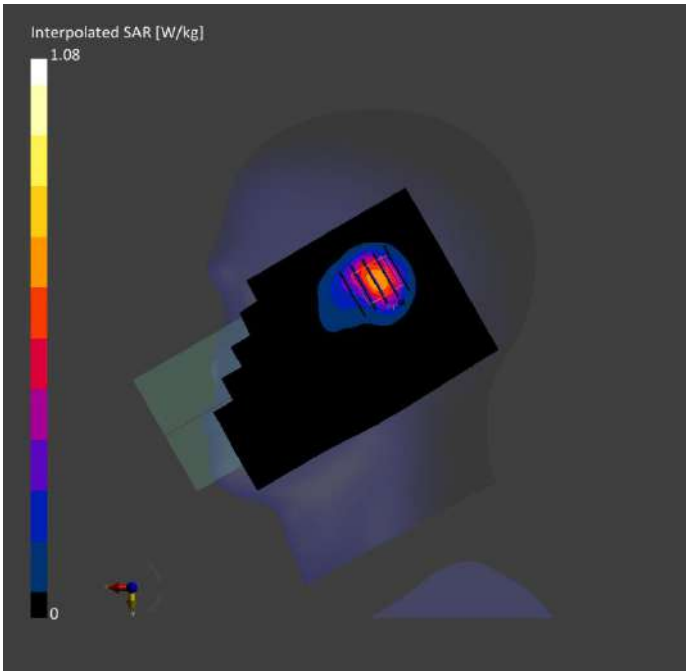
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-04	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-04	2025-02-04
psSAR1g [W/kg]	0.577	0.622
psSAR10g [W/kg]	0.310	0.321
Power Drift [dB]	-0.01	-0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		59.0
Dist 3dB Peak [mm]		8.0



Meas.15 Body Plane with Back Side 15mm on High Channel in WCDMA Band4 mode with Antenna 1
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL	BACK, 15.00	Band 4	WCDMA, 10457-AAB	1752.6, 1513	8.67	1.39	39.1	22.5	21.5

Hardware Setup

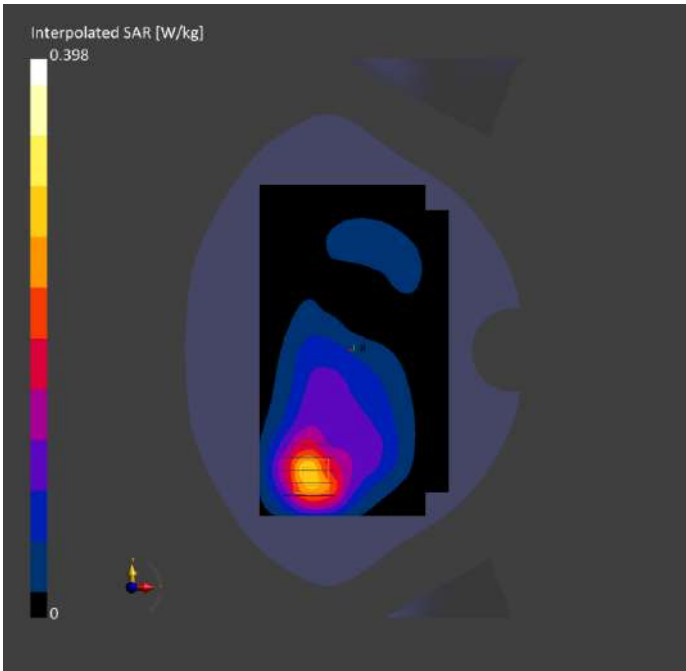
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-04	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-04	2025-02-04
psSAR1g [W/kg]	0.246	0.260
psSAR10g [W/kg]	0.145	0.159
Power Drift [dB]	-0.06	0.07
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		65.4
Dist 3dB Peak [mm]		15.8



Meas.16 Body Plane with Bottom Edge 10mm on High Channel in WCDMA Band4 mode with Antenna 0
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL	EDGE BOTTOM, 10.00	Band 4	WCDMA, 10457-AAB	1752.6, 1513	8.67	1.39	39.1	22.5	21.5

Hardware Setup

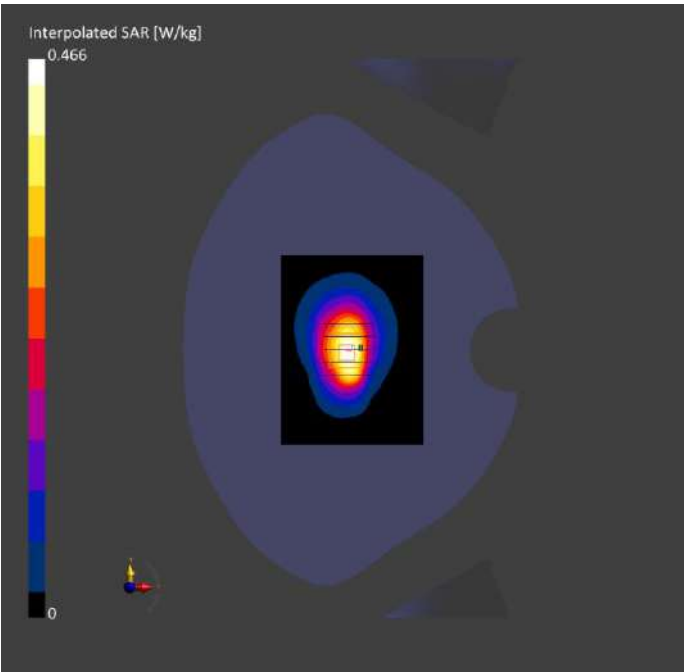
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-04	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-04	2025-02-04
psSAR1g [W/kg]	0.289	0.309
psSAR10g [W/kg]	0.164	0.184
Power Drift [dB]	0.02	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		66.1
Dist 3dB Peak [mm]		11.2



Meas.17 Body Plane with Bottom Edge 0mm on High Channel in WCDMA Band4 mode with Antenna 0

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL	EDGE BOTTOM, 0.00	Band 4	WCDMA, 10011-CAC	1752.6, 1513	8.67	1.39	39.1	22.5	21.5

Hardware Setup

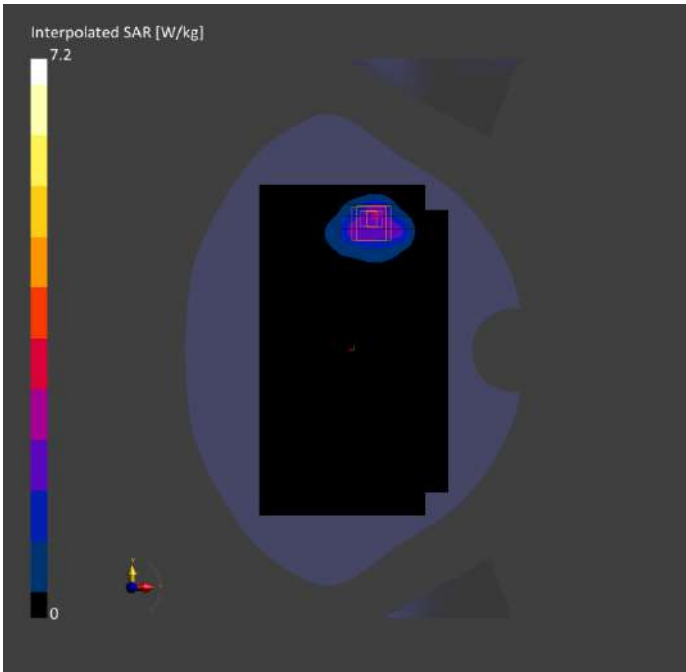
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-04	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-04	2025-02-04
psSAR1g [W/kg]	2.01	2.99
psSAR10g [W/kg]	1.17	1.52
Power Drift [dB]	-0.04	0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		27.6
Dist 3dB Peak [mm]		4.8



Meas.18 Right Head with Cheek on Low Channel in WCDMA Band5 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
RightHead, HSL	CHEEK, 0.00	Band 5	WCDMA, 10011-CAC	826.4, 4132	9.99	0.880	41.9	22.4	21.5

Hardware Setup

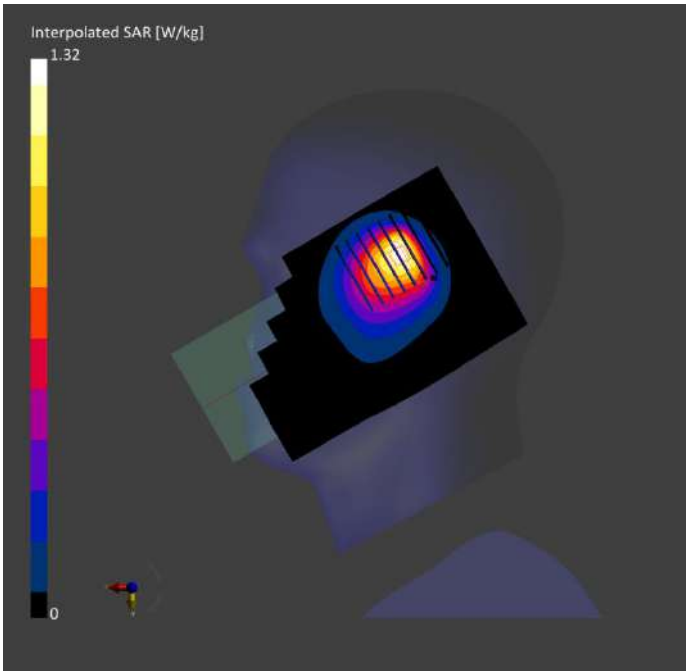
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-01-30	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-01-30	2025-01-30
psSAR1g [W/kg]	0.784	0.719
psSAR10g [W/kg]	0.500	0.470
Power Drift [dB]	0.05	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		44.8
Dist 3dB Peak [mm]		7.2



Meas.19 Body Plane with Back Side 15mm on Low Channel in WCDMA Band5 mode with Antenna 1
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band 5	WCDMA, 10457-AAB	826.4, 4132	9.99	0.880	41.9	22.4	21.5

Hardware Setup

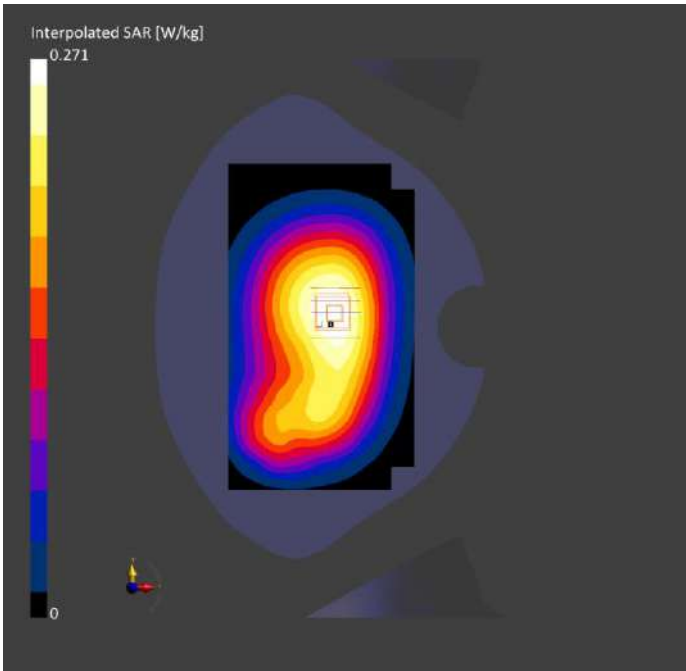
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-01-30	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-01-30	2025-01-30
psSAR1g [W/kg]	0.189	0.206
psSAR10g [W/kg]	0.134	0.157
Power Drift [dB]	-0.04	-0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		76.2
Dist 3dB Peak [mm]		> 16.0



Meas.20 Body Plane with Back Side 10mm on Middle Channel in WCDMA Band5 mode with Antenna 1
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 10.00	Band 5	WCDMA, 10457-AAB	836.4, 4182	9.99	0.891	40.4	22.4	21.5

Hardware Setup

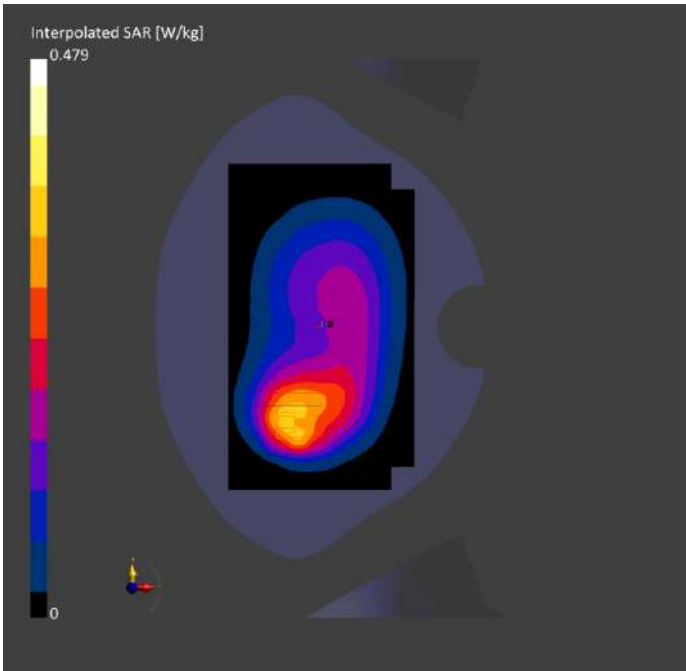
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-01-30	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-01-30	2025-01-30
psSAR1g [W/kg]	0.299	0.308
psSAR10g [W/kg]	0.207	0.204
Power Drift [dB]	0.09	-0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		62.7
Dist 3dB Peak [mm]		13.6



Meas.21 Right Head with Cheek on Low Channel in WCDMA Band8 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
RightHead, HSL	CHEEK, 0.00	Band 8	WCDMA, 10011-CAC	882.4, 2712	9.99	0.932	42.0	22.2	21.5

Hardware Setup

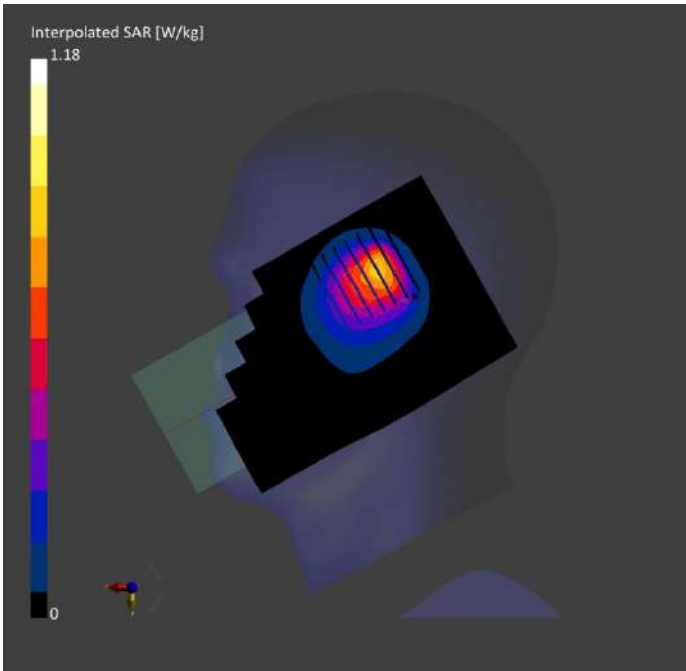
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-02	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-02	2025-02-02
psSAR1g [W/kg]	0.713	0.676
psSAR10g [W/kg]	0.454	0.443
Power Drift [dB]	0.09	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		45.5
Dist 3dB Peak [mm]		6.4



Meas.22 Body Plane with Back Side 15mm on Low Channel in WCDMA Band8 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band 8	WCDMA, 10457-AAB	882.4, 2712	9.99	0.932	42.0	22.2	21.5

Hardware Setup

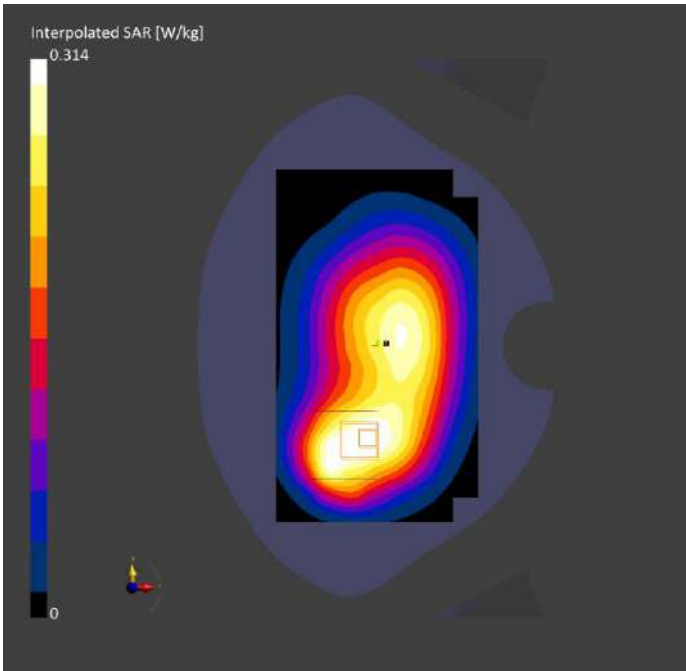
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-02	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-02	2025-02-02
psSAR1g [W/kg]	0.200	0.209
psSAR10g [W/kg]	0.139	0.142
Power Drift [dB]	-0.04	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		66.1
Dist 3dB Peak [mm]		30.8



Meas.23 Body Plane with Back Side 10mm on Low Channel in WCDMA Band8 mode with Antenna 1
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 10.00	Band 8	WCDMA, 10457-AAB	882.4, 2712	9.99	0.932	42.0	22.2	21.5

Hardware Setup

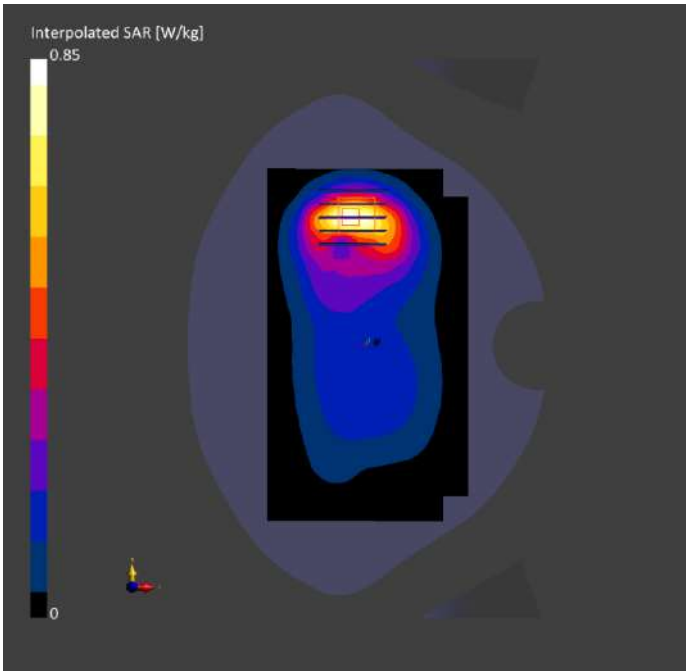
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-02	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-02	2025-02-02
psSAR1g [W/kg]	0.528	0.529
psSAR10g [W/kg]	0.324	0.317
Power Drift [dB]	-0.01	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		61.2
Dist 3dB Peak [mm]		12.8



Meas.24 Right Head with Tilt on Middle Channel in LTE Band2 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
RightHead, HSL	TILT, 0.00	Band 2	LTE-FDD, 10169-CAF	1880.0, 18900	8.33	1.38	41.0	22.1	21.3

Hardware Setup

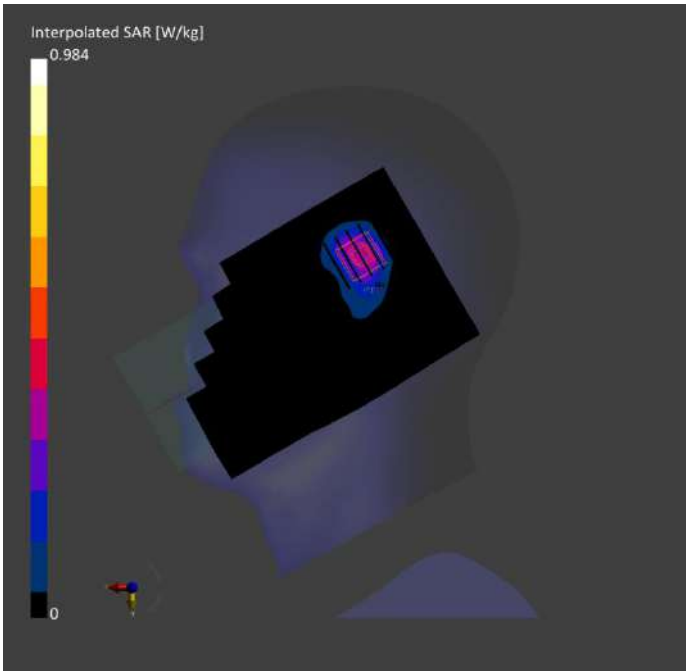
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-07	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-07	2025-02-07
psSAR1g [W/kg]	0.331	0.500
psSAR10g [W/kg]	0.184	0.230
Power Drift [dB]	0.00	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		49.0
Dist 3dB Peak [mm]		6.4



Meas.25 Body Plane with Back Side 15mm on Middle Channel in LTE Band2 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band 2	LTE-FDD, 10169-CAF	1880.0, 18900	8.33	1.38	41.0	22.1	21.3

Hardware Setup

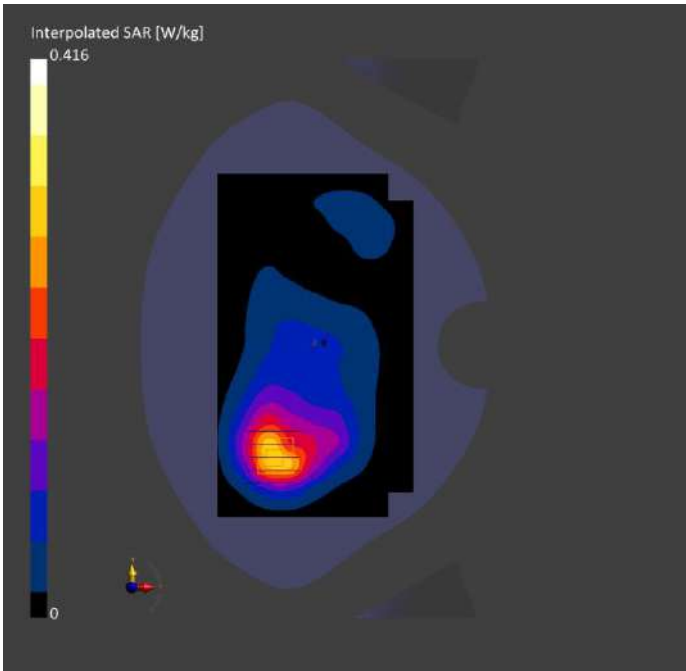
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-07	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-07	2025-02-07
psSAR1g [W/kg]	0.260	0.269
psSAR10g [W/kg]	0.152	0.163
Power Drift [dB]	0.08	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		63.1
Dist 3dB Peak [mm]		15.1



Meas.26 Body Plane with Bottom Edge 10mm on Middle Channel in LTE Band2 mode with Antenna 0

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL	EDGE BOTTOM, 10.00	Band 2	LTE-FDD, 10169-CAF	1880.0, 18900	8.33	1.38	41.0	22.1	21.3

Hardware Setup

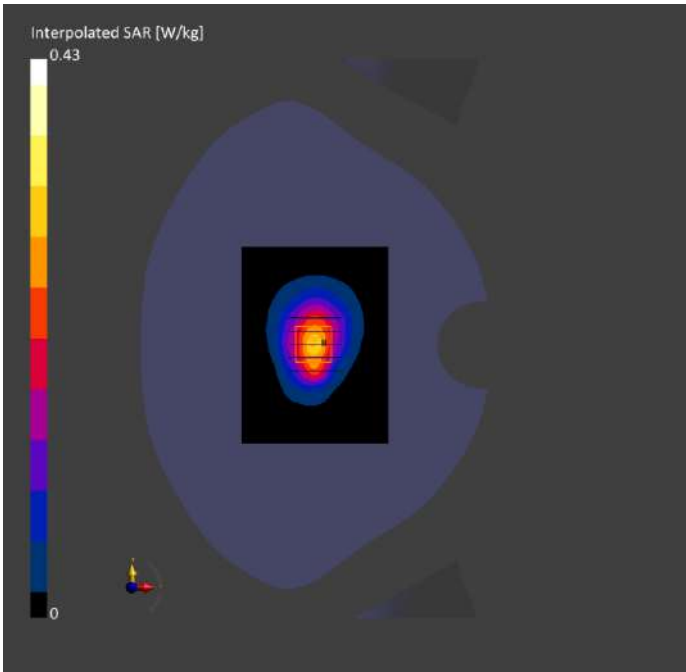
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-07	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-07	2025-02-07
psSAR1g [W/kg]	0.255	0.276
psSAR10g [W/kg]	0.142	0.159
Power Drift [dB]	-0.01	0.14
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		64.6
Dist 3dB Peak [mm]		11.5



Meas.27 Body Plane with Back Side 0mm on Middle Channel in LTE Band2 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 0.00	Band 2	LTE-FDD, 10169-CAF	1880.0, 18900	8.33	1.38	41.0	22.1	21.3

Hardware Setup

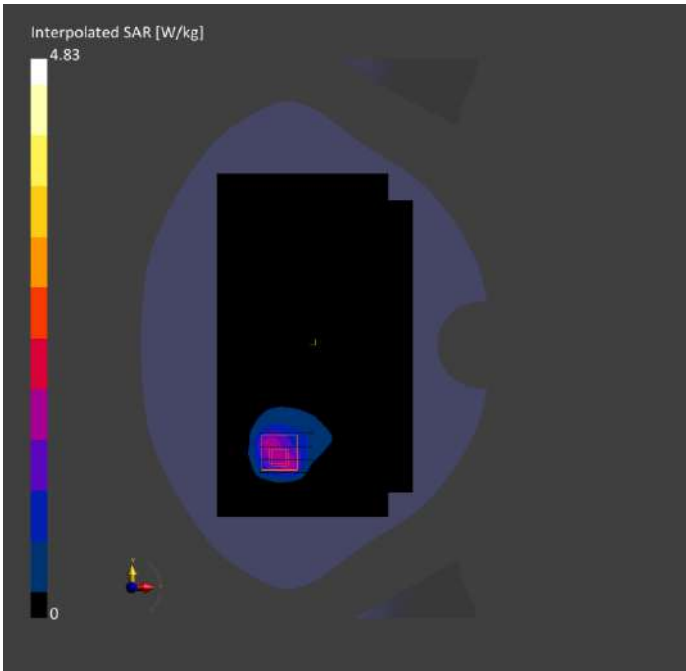
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-07	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-07	2025-02-07
psSAR1g [W/kg]	1.62	2.21
psSAR10g [W/kg]	0.888	1.02
Power Drift [dB]	0.02	-0.15
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		40.4
Dist 3dB Peak [mm]		6.4



Meas.28 Right Head with Tilt on Middle Channel in LTE Band4 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
RightHead, HSL	TILT, 0.00	Band 4	LTE-FDD, 10169-CAF	1732.5, 20175	8.67	1.38	40.7	22.2	21.3

Hardware Setup

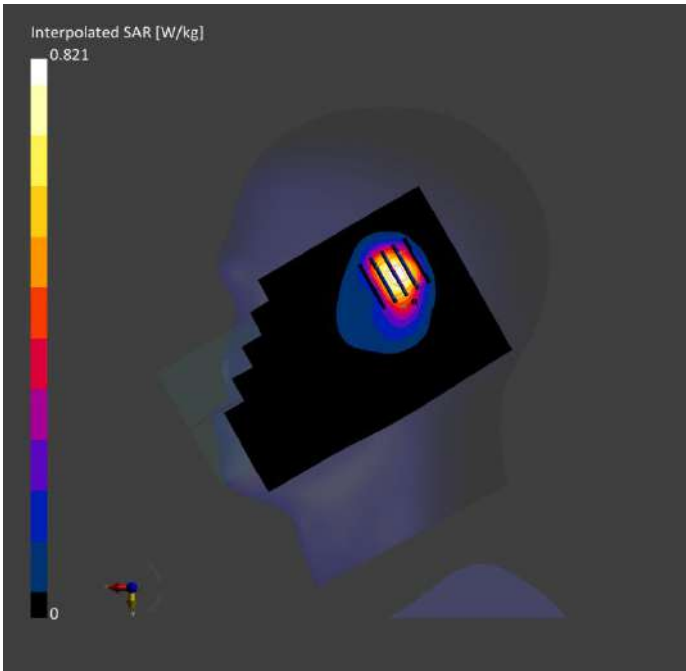
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000	2025-02-05	EX3DV4 - SN7510, 2024-06-25		DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-05	2025-02-05
psSAR1g [W/kg]	0.292	0.422
psSAR10g [W/kg]	0.163	0.202
Power Drift [dB]	0.15	-0.12
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		49.9
Dist 3dB Peak [mm]		6.4



Meas.29 Body Plane with Back Side 15mm on Middle Channel in LTE Band4 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL	BACK, 15.00	Band 4	LTE-FDD, 10169-CAF	1732.5, 20175	8.67	1.38	40.7	22.2	21.3

Hardware Setup

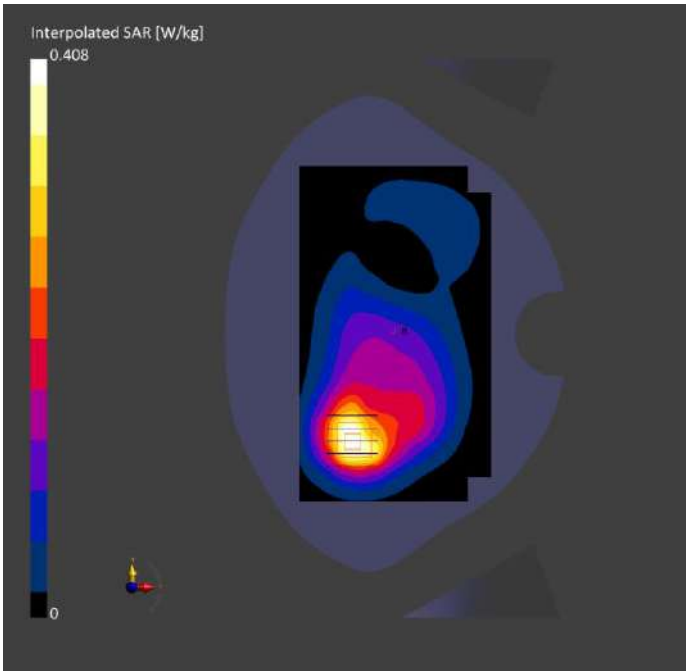
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-05	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-05	2025-02-05
psSAR1g [W/kg]	0.229	0.265
psSAR10g [W/kg]	0.135	0.162
Power Drift [dB]	0.02	-0.07
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		64.0
Dist 3dB Peak [mm]		14.8



Meas.30 Body Plane with Bottom Edge 10mm on High Channel in LTE Band4 mode with Antenna 0

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL	EDGE BOTTOM, 10.00	Band 4	LTE-FDD, 10169-CAF	1745.0, 20300	8.67	1.39	39.7	22.2	21.3

Hardware Setup

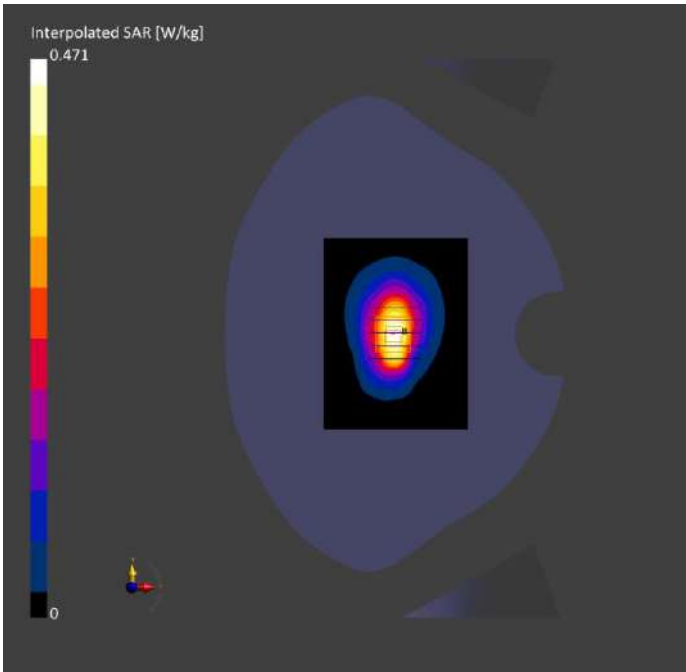
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-05	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-05	2025-02-05
psSAR1g [W/kg]	0.305	0.307
psSAR10g [W/kg]	0.169	0.179
Power Drift [dB]	-0.06	-0.14
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		65.5
Dist 3dB Peak [mm]		11.6



Meas.31 Body Plane with Bottom Edge 0mm on Low Channel in LTE Band4 mode with Antenna 0

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL	EDGE BOTTOM, 0.00	Band 4	LTE-FDD, 10169-CAF	1720.0, 20050	8.67	1.35	41.5	22.2	21.3

Hardware Setup

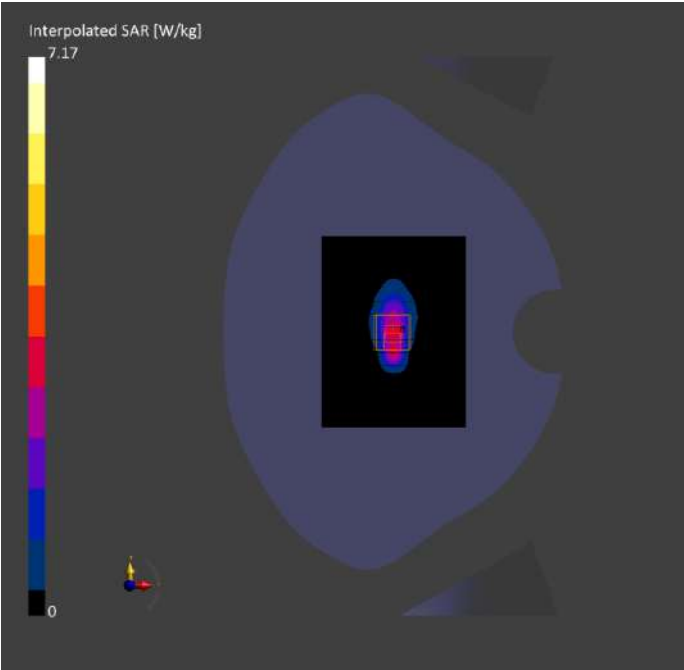
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-05	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-05	2025-02-05
psSAR1g [W/kg]	2.75	3.26
psSAR10g [W/kg]	1.34	1.54
Power Drift [dB]	0.03	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		35.9
Dist 3dB Peak [mm]		4.8



Meas.32 Right Head with Cheek on Low Channel in LTE Band5 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
RightHead, HSL	CHEEK, 0.00	Band 5	LTE-FDD, 10175-CAH	829.0, 20450	9.99	0.882	41.7	22.6	21.7

Hardware Setup

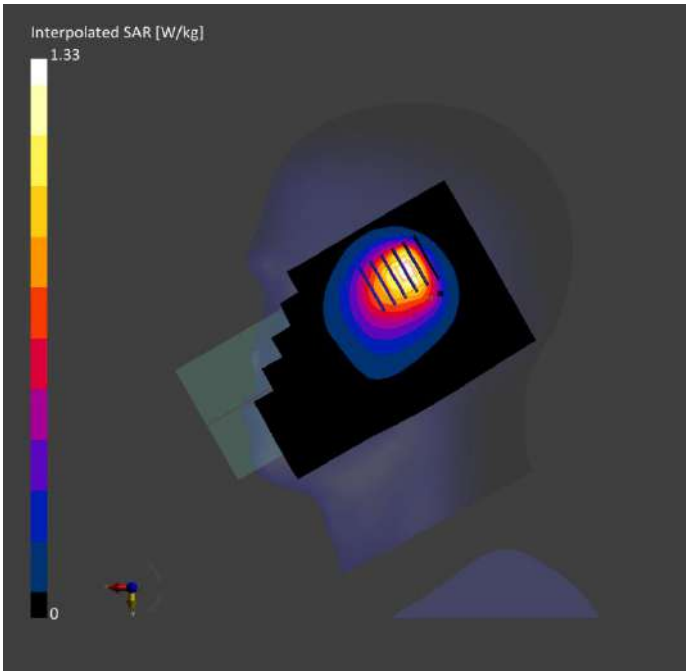
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-01	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-01	2025-02-01
psSAR1g [W/kg]	0.804	0.729
psSAR10g [W/kg]	0.514	0.476
Power Drift [dB]	0.13	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		45.4
Dist 3dB Peak [mm]		8.0



Meas.33 Body Plane with Back Side 15mm on High Channel in LTE Band5 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band 5	LTE-FDD, 10175-CAH	844.0, 20600	9.99	0.927	40.2	22.6	21.7

Hardware Setup

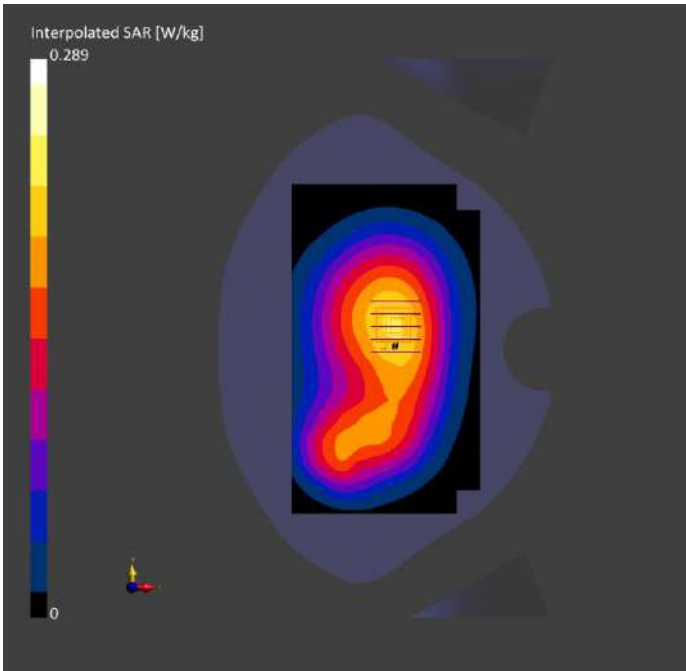
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-01	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-01	2025-02-01
psSAR1g [W/kg]	0.195	0.221
psSAR10g [W/kg]	0.138	0.169
Power Drift [dB]	0.13	-0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		77.5
Dist 3dB Peak [mm]		> 16.0



Meas.34 Body Plane with Back Side 10mm on Middle Channel in LTE Band5 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL	BACK, 10.00	Band 5	LTE-FDD, 10175-CAH	836.5, 20525	9.99	0.904	40.3	22.6	21.7

Hardware Setup

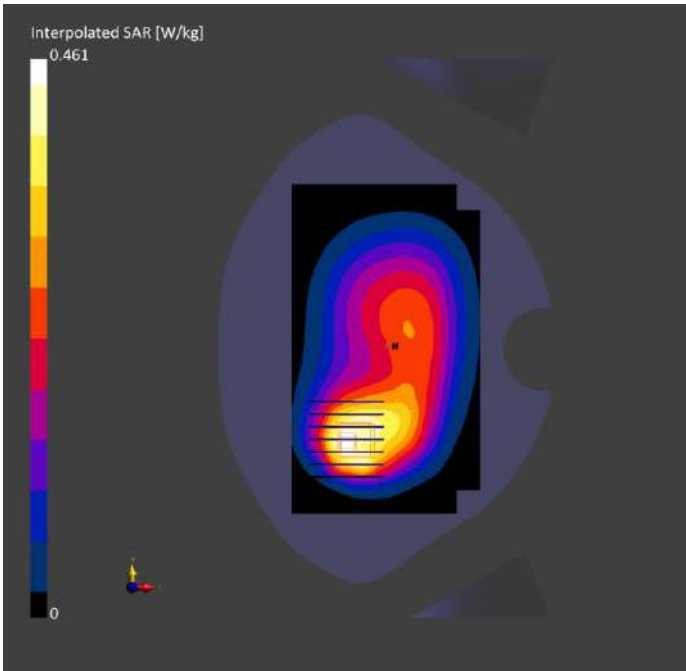
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-01	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-01	2025-02-01
psSAR1g [W/kg]	0.299	0.296
psSAR10g [W/kg]	0.202	0.197
Power Drift [dB]	0.05	-0.13
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		62.8
Dist 3dB Peak [mm]		12.9



Meas.35 Right Head with Cheek on Low Channel in LTE Band7 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
RightHead, HSL	CHEEK, 0.00	Band 7	LTE-FDD, 10169-CAF	2510.0, 20850	7.75	1.84	39.5	22.5	21.6

Hardware Setup

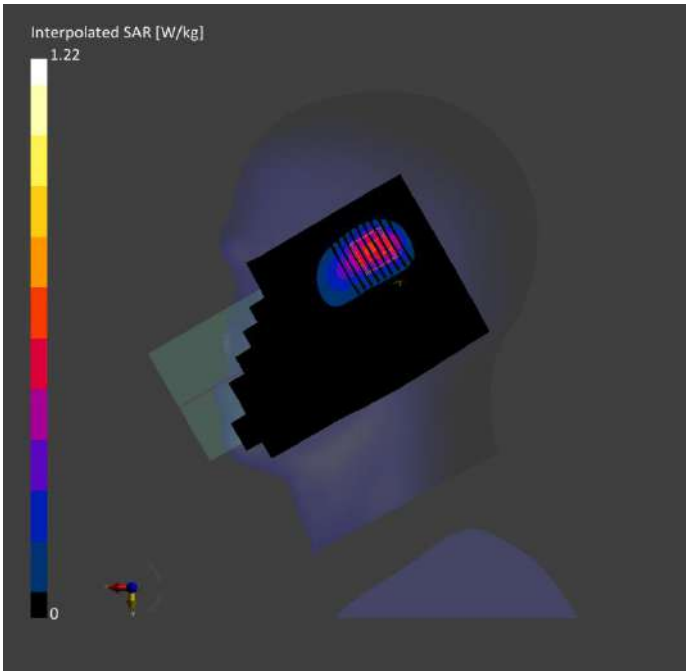
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-09	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-09	2025-02-09
psSAR1g [W/kg]	0.496	0.547
psSAR10g [W/kg]	0.259	0.261
Power Drift [dB]	-0.09	-0.12
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		43.3
Dist 3dB Peak [mm]		7.6



Meas.36 Body Plane with Back Side 15mm on Middle Channel in LTE Band7 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band 7	LTE-FDD, 10169-CAF	2535.0, 21100	7.75	1.88	39.2	22.5	21.6

Hardware Setup

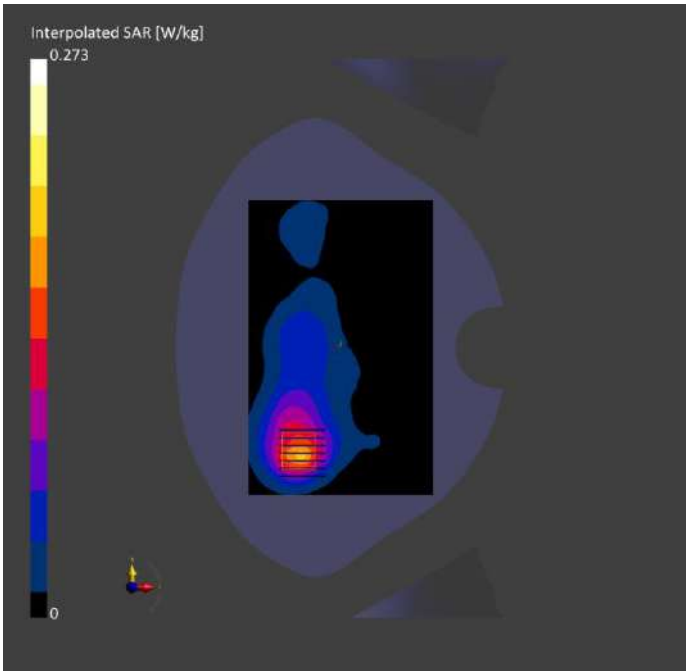
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-09	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-09	2025-02-09
psSAR1g [W/kg]	0.148	0.152
psSAR10g [W/kg]	0.077	0.080
Power Drift [dB]	0.01	-0.17
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		53.2
Dist 3dB Peak [mm]		12.2



Meas.37 Body Plane with Back Side 10mm on Middle Channel in LTE Band7 mode with Antenna 0

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL	BACK, 10.00	Band 7	LTE-FDD, 10169-CAF	2535.0, 21100	7.75	1.88	39.2	22.5	21.6

Hardware Setup

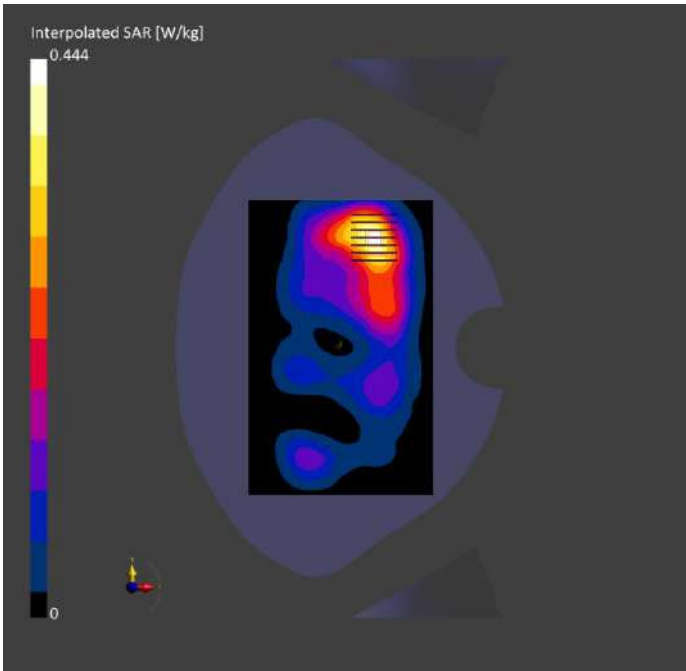
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-09	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-09	2025-02-09
psSAR1g [W/kg]	0.270	0.269
psSAR10g [W/kg]	0.143	0.148
Power Drift [dB]	-0.03	-0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		59.0
Dist 3dB Peak [mm]		12.5



Meas.38 Right Head with Cheek on Middle Channel in LTE Band8 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
RightHead, HSL	CHEEK, 0.00	Band 8	LTE-FDD, 10175-CAH	897.5, 21625	9.99	0.977	41.7	22.2	21.5

Hardware Setup

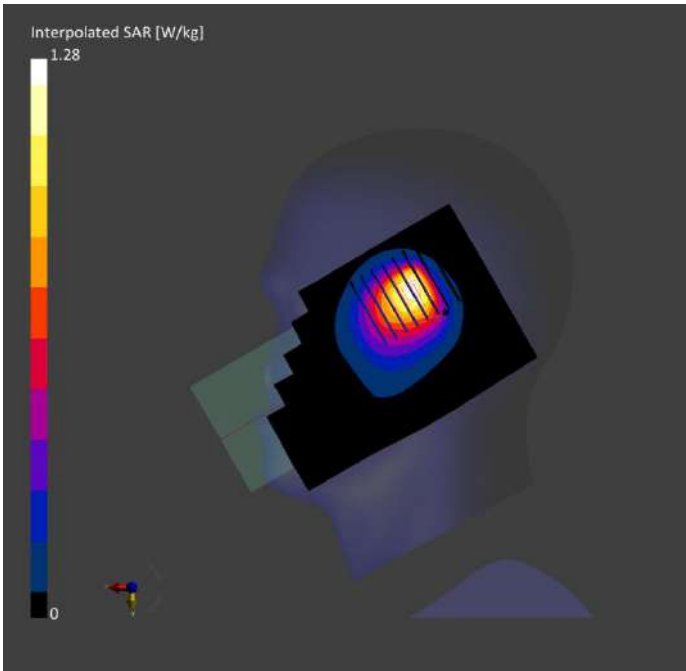
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-02	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-02	2025-02-02
psSAR1g [W/kg]	0.745	0.735
psSAR10g [W/kg]	0.475	0.484
Power Drift [dB]	0.17	-0.10
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		45.5
Dist 3dB Peak [mm]		6.4



Meas.39 Body Plane with Back Side 15mm on Middle Channel in LTE Band8 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band 8	LTE-FDD, 10175-CAH	897.5, 21625	9.99	0.977	41.7	22.2	21.5

Hardware Setup

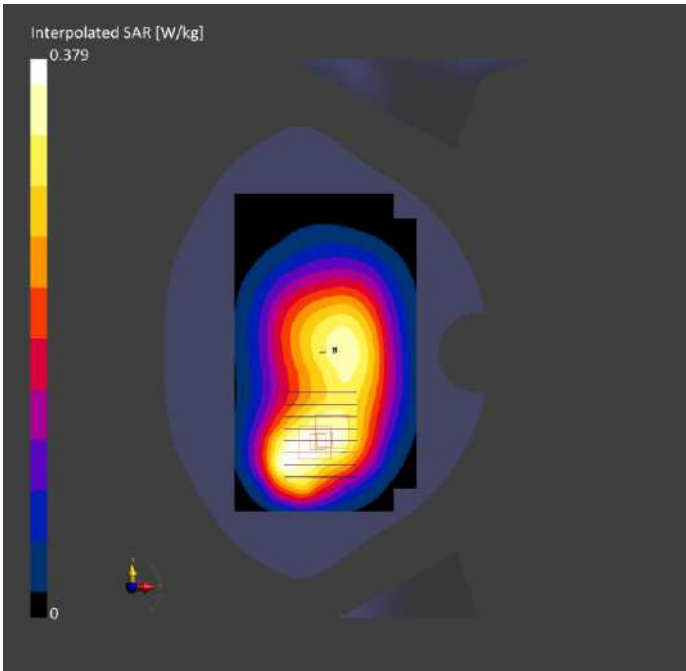
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-02	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-02	2025-02-02
psSAR1g [W/kg]	0.238	0.249
psSAR10g [W/kg]	0.165	0.180
Power Drift [dB]	0.04	0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		62.8
Dist 3dB Peak [mm]		29.9



Meas.40 Body Plane with Back Side 10mm on Low Channel in LTE Band8 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 10.00	Band 8	LTE-FDD, 10175-CAH	885.0, 21500	9.99	0.949	41.9	22.2	21.5

Hardware Setup

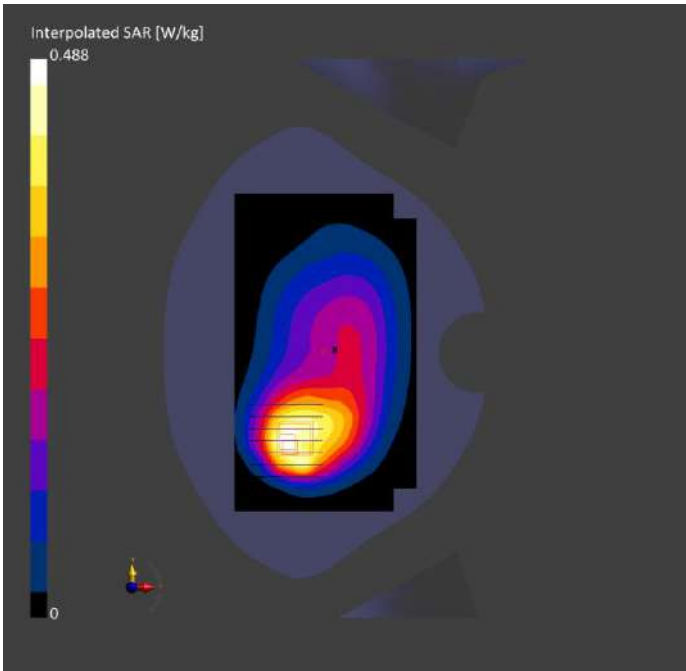
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-02	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-02	2025-02-02
psSAR1g [W/kg]	0.305	0.316
psSAR10g [W/kg]	0.206	0.212
Power Drift [dB]	-0.19	-0.13
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		62.7
Dist 3dB Peak [mm]		13.6



Meas.41 Right Head with Cheek on Low Channel in LTE Band12 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
RightHead, HSL	CHEEK, 0.00	Band 12	LTE-FDD, 10175-CAH	704.0, 23060	10.29	0.863	43.6	22.2	21.3

Hardware Setup

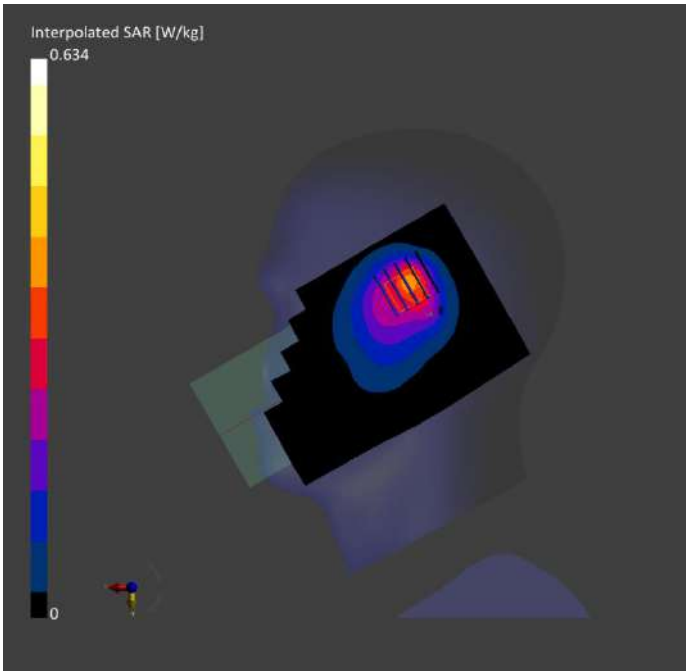
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-01-28	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-01-28	2025-01-28
psSAR1g [W/kg]	0.335	0.325
psSAR10g [W/kg]	0.216	0.201
Power Drift [dB]	0.06	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		46.7
Dist 3dB Peak [mm]		9.6



Meas.42 Body Plane with Back Side 15mm on Middle Channel in LTE Band12 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL	BACK, 15.00	Band 12	LTE-FDD, 10175-CAH	707.5, 23095	10.29	0.874	43.3	22.2	21.3

Hardware Setup

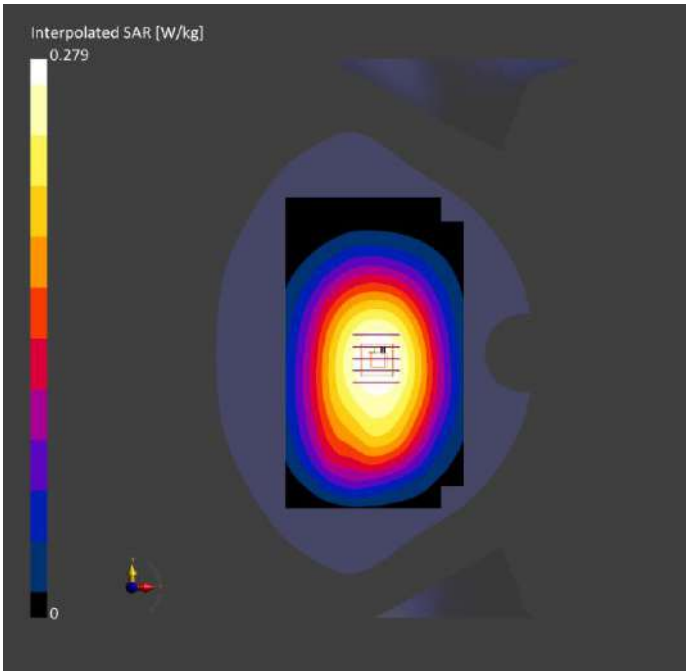
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-01-28	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-01-28	2025-01-28
psSAR1g [W/kg]	0.198	0.217
psSAR10g [W/kg]	0.142	0.170
Power Drift [dB]	-0.01	-0.08
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		77.9
Dist 3dB Peak [mm]		> 16.0



Meas.43 Body Plane with Back Side 10mm on Middle Channel in LTE Band12 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL	BACK, 10.00	Band 12	LTE-FDD, 10175-CAH	707.5, 23095	10.29	0.874	43.3	22.2	21.3

Hardware Setup

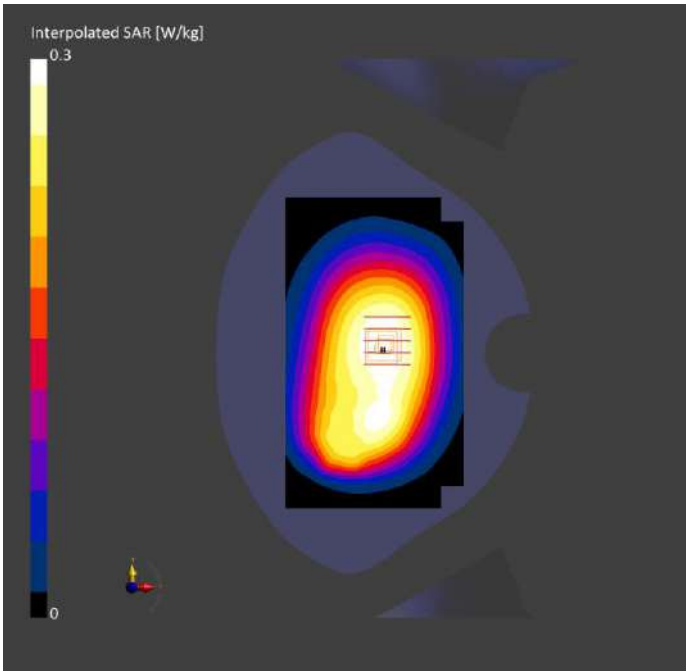
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-01-28	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-01-28	2025-01-28
psSAR1g [W/kg]	0.236	0.253
psSAR10g [W/kg]	0.170	0.204
Power Drift [dB]	0.02	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		84.6
Dist 3dB Peak [mm]		> 16.0



Meas.44 Right Head with Cheek on Middle Channel in LTE Band13 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
RightHead, HSL	CHEEK, 0.00	Band 13	LTE-FDD, 10177-CAJ	782.0, 23230	10.29	0.924	41.7	22.3	21.5

Hardware Setup

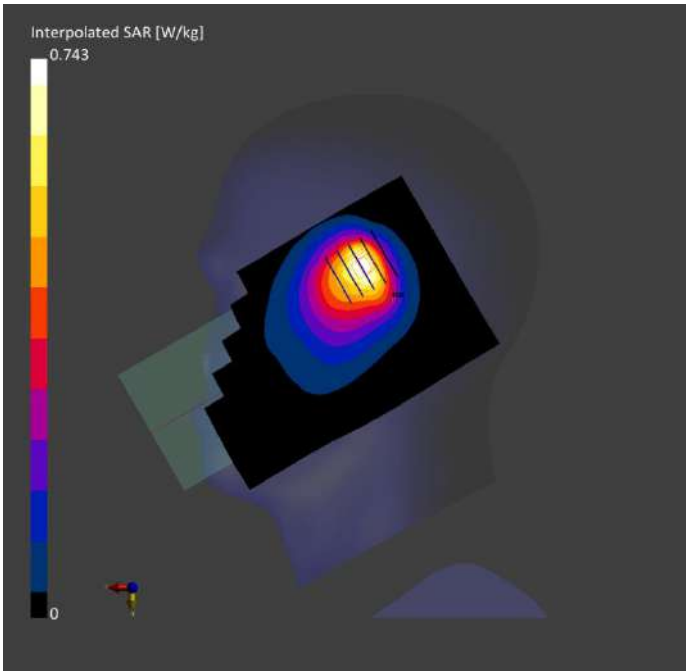
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-01-29	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-01-29	2025-01-29
psSAR1g [W/kg]	0.403	0.377
psSAR10g [W/kg]	0.258	0.239
Power Drift [dB]	0.05	0.18
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		44.4
Dist 3dB Peak [mm]		9.3



Meas.45 Body Plane with Back Side 15mm on Middle Channel in LTE Band13 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band 13	LTE-FDD, 10175-CAH	782.0, 23230	10.29	0.924	41.7	22.3	21.5

Hardware Setup

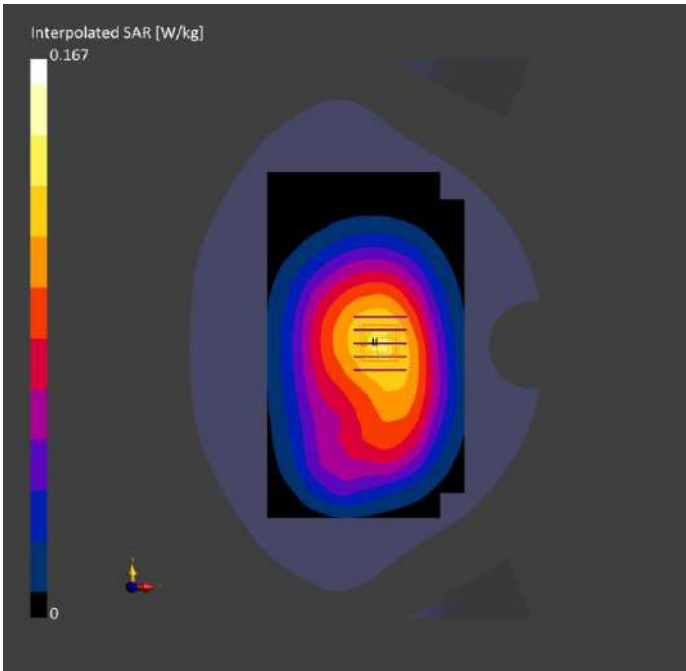
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-01-29	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-01-29	2025-01-29
psSAR1g [W/kg]	0.113	0.127
psSAR10g [W/kg]	0.080	0.097
Power Drift [dB]	0.15	-0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		75.4
Dist 3dB Peak [mm]		> 16.0



Meas.46 Body Plane with Back Side 10mm on Middle Channel in LTE Band13 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL	BACK, 10.00	Band 13	LTE-FDD, 10175-CAH	782.0, 23230	10.29	0.924	41.7	22.3	21.5

Hardware Setup

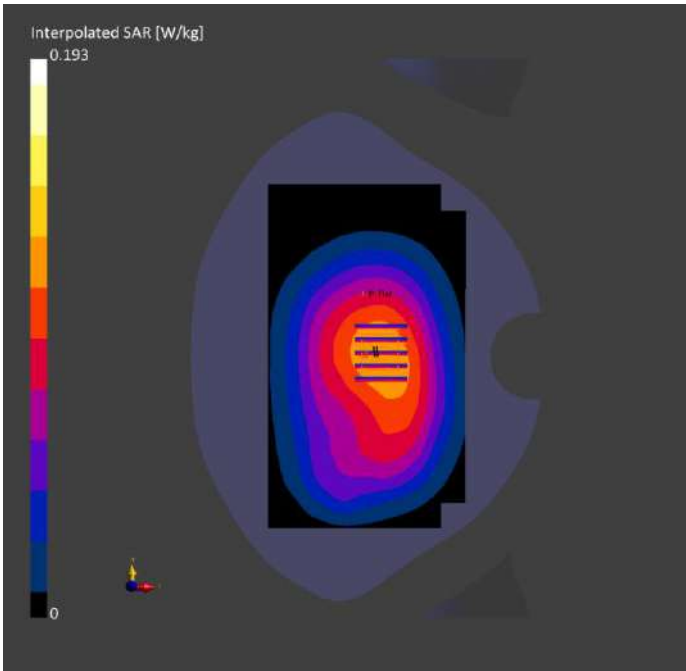
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-01-29	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-01-29	2025-01-29
psSAR1g [W/kg]	0.120	0.122
psSAR10g [W/kg]	0.083	0.091
Power Drift [dB]	-0.09	0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		62.4
Dist 3dB Peak [mm]		13.8



Meas.47 Right Head with Cheek on Middle Channel in LTE Band17 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
RightHead, HSL	CHEEK, 0.00	Band 17	LTE-FDD, 10177-CAJ	710.0, 23790	10.29	0.888	41.4	22.2	21.3

Hardware Setup

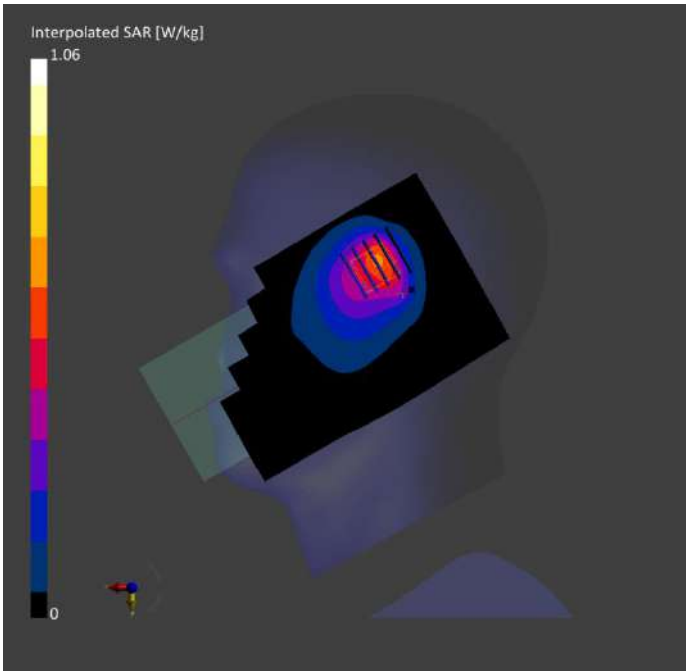
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-01-28	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-01-28	2025-01-28
psSAR1g [W/kg]	0.540	0.522
psSAR10g [W/kg]	0.348	0.324
Power Drift [dB]	0.03	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		43.5
Dist 3dB Peak [mm]		9.6



Meas.48 Body Plane with Back Side 15mm on Middle Channel in LTE Band17 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL	BACK, 15.00	Band 17	LTE-FDD, 10175-CAH	710.0, 23790	10.29	0.888	41.4	22.2	21.3

Hardware Setup

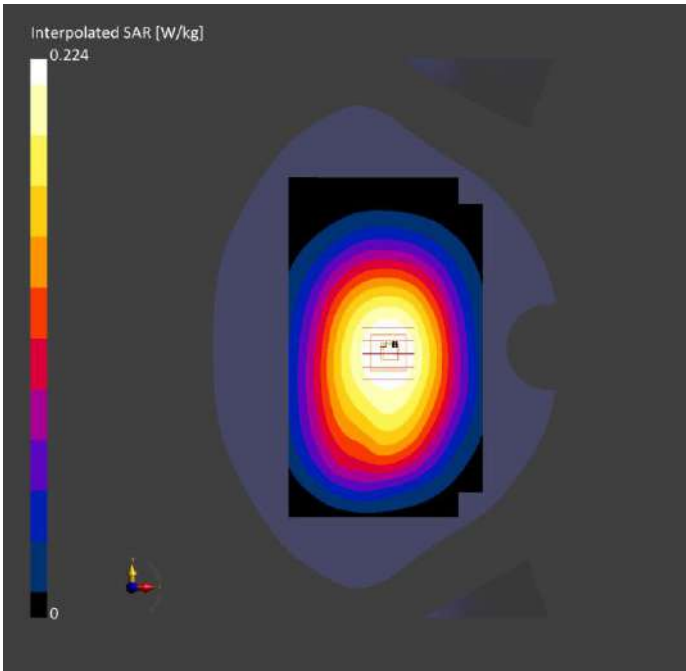
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-01-28	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-01-28	2025-01-28
psSAR1g [W/kg]	0.156	0.173
psSAR10g [W/kg]	0.112	0.134
Power Drift [dB]	0.06	-0.11
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		77.1
Dist 3dB Peak [mm]		> 16.0



Meas.49 Body Plane with Back Side 10mm on Middle Channel in LTE Band17 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 10.00	Band 17	LTE-FDD, 10175-CAH	710.0, 23790	10.29	0.888	41.4	22.2	21.3

Hardware Setup

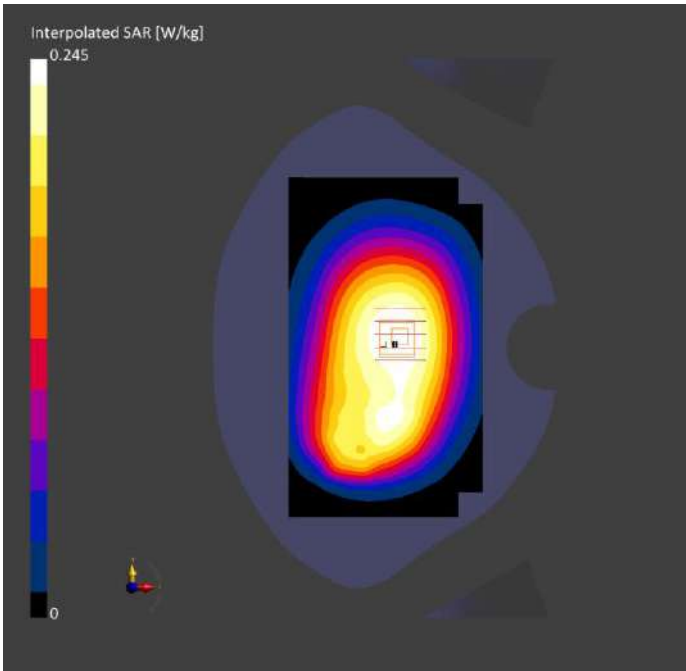
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-01-28	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-01-28	2025-01-28
psSAR1g [W/kg]	0.189	0.204
psSAR10g [W/kg]	0.136	0.164
Power Drift [dB]	-0.01	-0.16
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.5
Dist 3dB Peak [mm]		> 16.0



Meas.50 Right Head with Cheek on Middle Channel in LTE Band18 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
RightHead, HSL	CHEEK, 0.00	Band 18	LTE-FDD, 10181-CAF	822.5, 23925	9.99	0.893	42.5	22.2	21.4

Hardware Setup

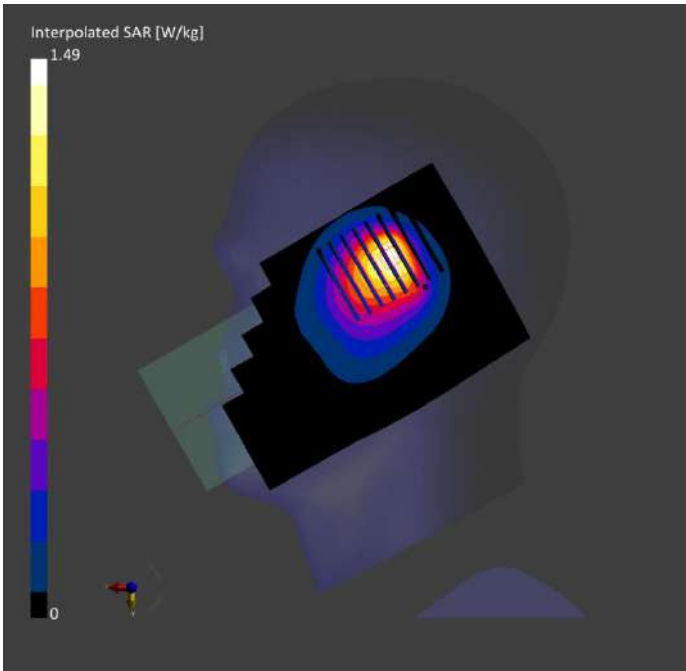
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-01-31	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-01-31	2025-01-31
psSAR1g [W/kg]	0.838	0.792
psSAR10g [W/kg]	0.537	0.519
Power Drift [dB]	-0.01	-0.13
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		45.4
Dist 3dB Peak [mm]		8.0



Meas.51 Body Plane with Back Side 15mm on Middle Channel in LTE Band18 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL	BACK, 15.00	Band 18	LTE-FDD, 10181-CAF	822.5, 23925	9.99	0.893	42.5	22.2	21.4

Hardware Setup

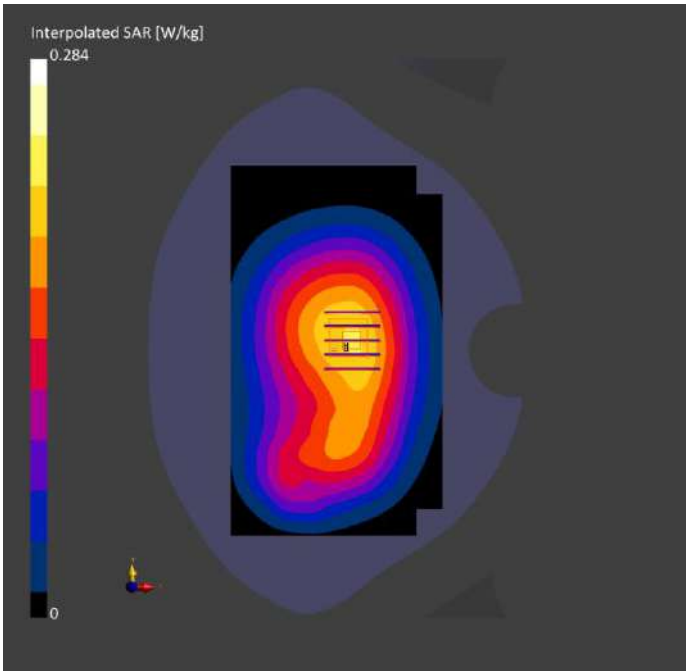
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-01-31	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-01-31	2025-01-31
psSAR1g [W/kg]	0.191	0.216
psSAR10g [W/kg]	0.135	0.166
Power Drift [dB]	0.05	-0.09
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		76.3
Dist 3dB Peak [mm]		> 16.0



Meas.52 Body Plane with Back Side 10mm on Middle Channel in LTE Band18 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 10.00	Band 18	LTE-FDD, 10181-CAF	822.5, 23925	9.99	0.893	42.5	22.2	21.4

Hardware Setup

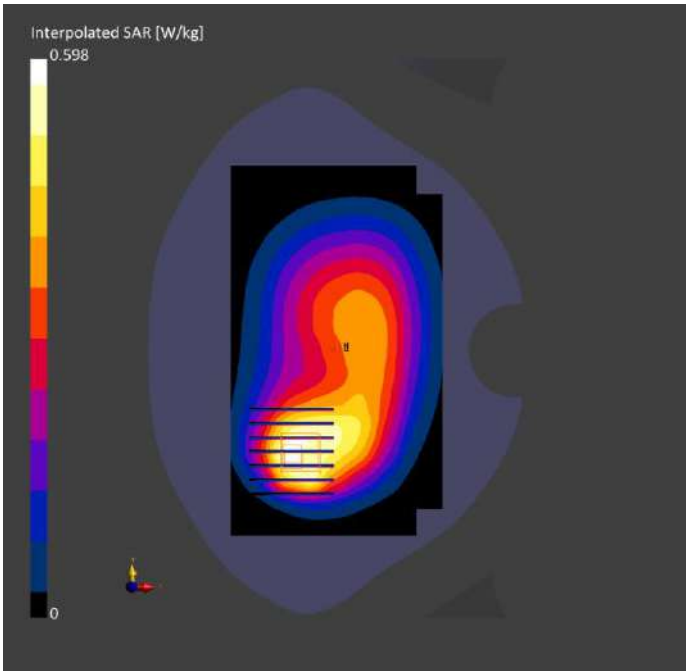
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-01-31	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-01-31	2025-01-31
psSAR1g [W/kg]	0.378	0.383
psSAR10g [W/kg]	0.258	0.254
Power Drift [dB]	0.05	-0.08
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		62.4
Dist 3dB Peak [mm]		13.6



Meas.53 Right Head with Cheek on Middle Channel in LTE Band19 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
RightHead, HSL	CHEEK, 0.00	Band 19	LTE-FDD, 10181-CAF	837.5, 24075	9.99	0.907	40.3	22.2	21.4

Hardware Setup

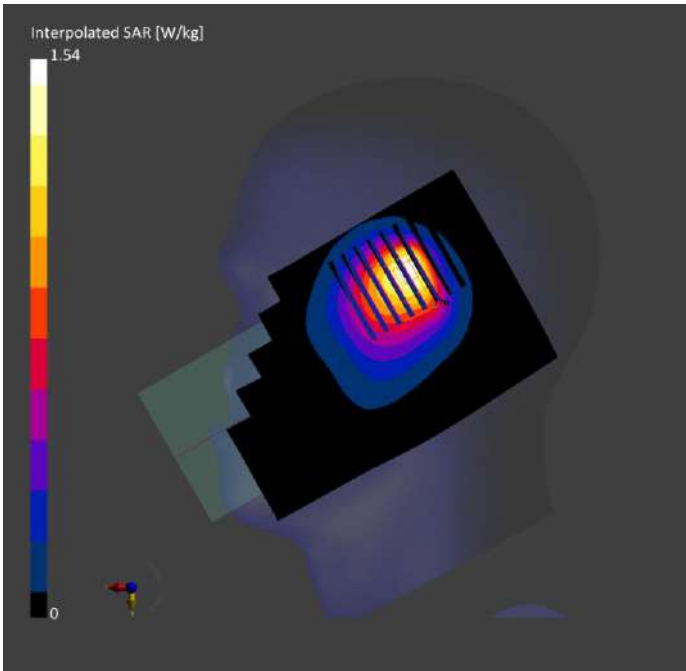
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-01-31	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-01-31	2025-01-31
psSAR1g [W/kg]	0.894	0.821
psSAR10g [W/kg]	0.573	0.533
Power Drift [dB]	-0.02	0.13
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		45.3
Dist 3dB Peak [mm]		8.0



Meas.54 Body Plane with Back Side 15mm on Middle Channel in LTE Band19 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL	BACK, 15.00	Band 19	LTE-FDD, 10181-CAF	837.5, 24075	9.99	0.907	40.3	22.2	21.4

Hardware Setup

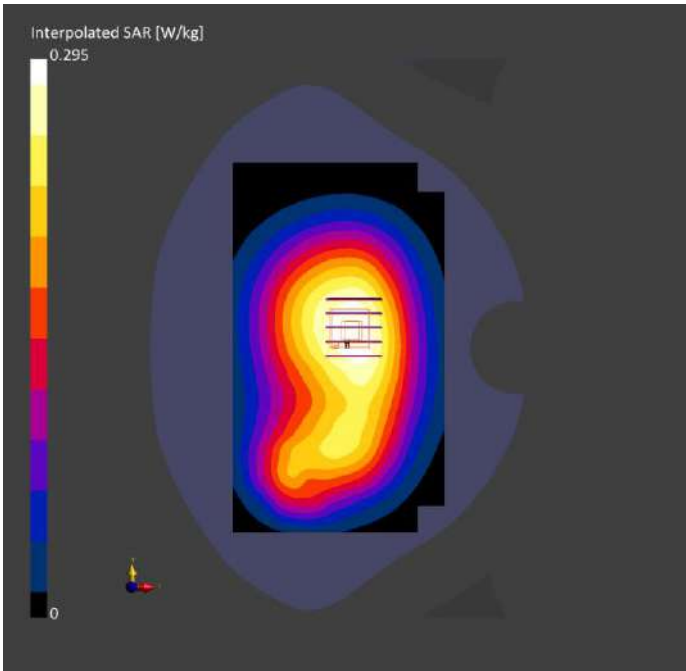
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-01-31	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-01-31	2025-01-31
psSAR1g [W/kg]	0.206	0.224
psSAR10g [W/kg]	0.145	0.172
Power Drift [dB]	-0.01	-0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		75.9
Dist 3dB Peak [mm]		> 16.0



Meas.55 Body Plane with Back Side 10mm on Middle Channel in LTE Band19 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 10.00	Band 19	LTE-FDD, 10181-CAF	837.5, 24075	9.99	0.907	40.3	22.2	21.4

Hardware Setup

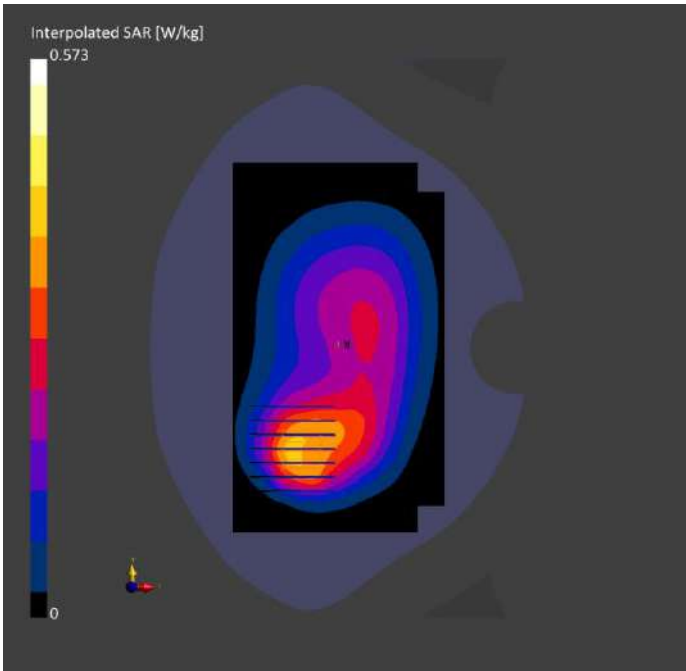
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-01-31	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-01-31	2025-01-31
psSAR1g [W/kg]	0.355	0.366
psSAR10g [W/kg]	0.241	0.242
Power Drift [dB]	-0.01	-0.07
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		62.3
Dist 3dB Peak [mm]		13.6



Meas.56 Right Head with Cheek on Middle Channel in LTE Band26 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
RightHead, HSL	CHEEK, 0.00	Band 26	LTE-FDD, 10181-CAF	831.5, 26865	9.99	0.892	41.4	22.6	21.7

Hardware Setup

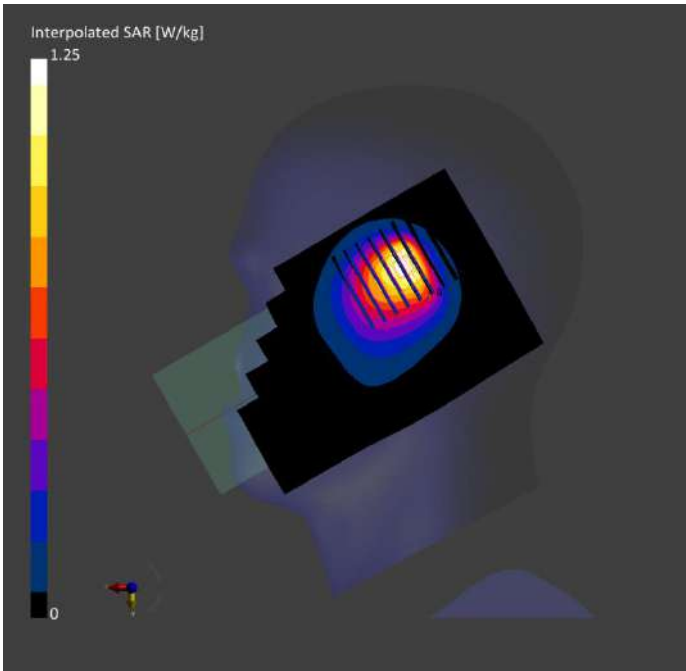
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-01	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-01	2025-02-01
psSAR1g [W/kg]	0.709	0.676
psSAR10g [W/kg]	0.452	0.442
Power Drift [dB]	0.13	0.12
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		44.8
Dist 3dB Peak [mm]		7.2



Meas.57 Body Plane with Back Side 15mm on Middle Channel in LTE Band26 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band 26	LTE-FDD, 10181-CAF	831.5, 26865	9.99	0.892	41.4	22.6	21.7

Hardware Setup

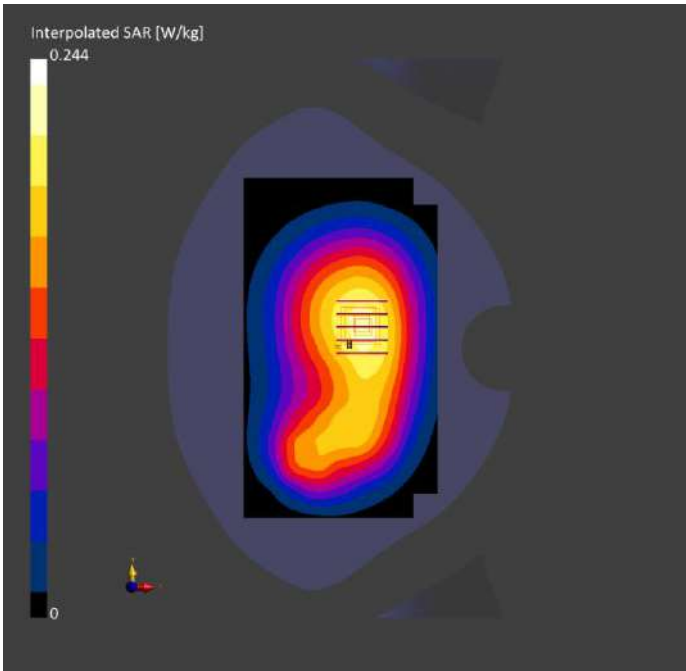
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-01	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-01	2025-02-01
psSAR1g [W/kg]	0.187	0.198
psSAR10g [W/kg]	0.132	0.155
Power Drift [dB]	-0.07	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		82.3
Dist 3dB Peak [mm]		> 16.0



Meas.58 Body Plane with Back Side 10mm on High Channel in LTE Band26 mode with Antenna 1
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 10.00	Band 26	LTE-FDD, 10181-CAF	841.5, 26965	9.99	0.906	40.2	22.6	21.7

Hardware Setup

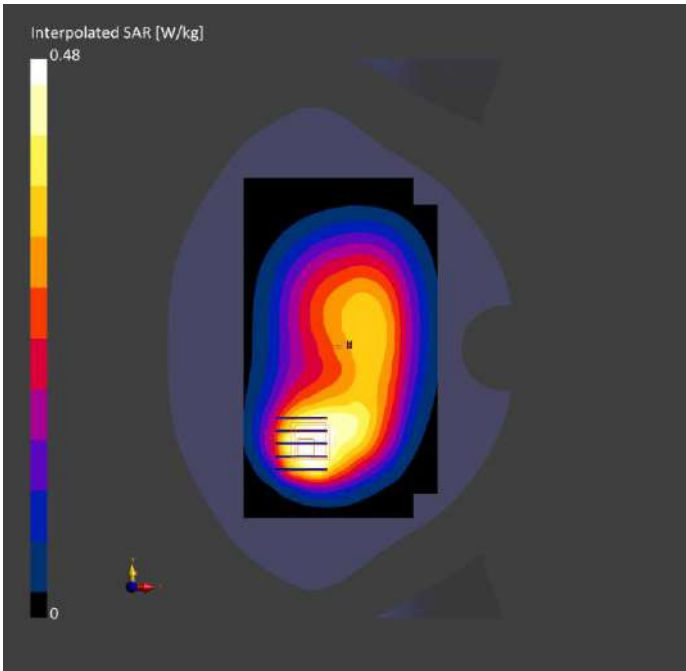
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-01	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-01	2025-02-01
psSAR1g [W/kg]	0.316	0.316
psSAR10g [W/kg]	0.221	0.212
Power Drift [dB]	-0.10	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		63.6
Dist 3dB Peak [mm]		14.8



Meas.59 Right Head with Cheek on Middle Channel in LTE Band28 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
RightHead, HSL	CHEEK, 0.00	Band 28	LTE-FDD, 10169-CAF	728.0, 27460	10.29	0.868	43.2	22.3	21.5

Hardware Setup

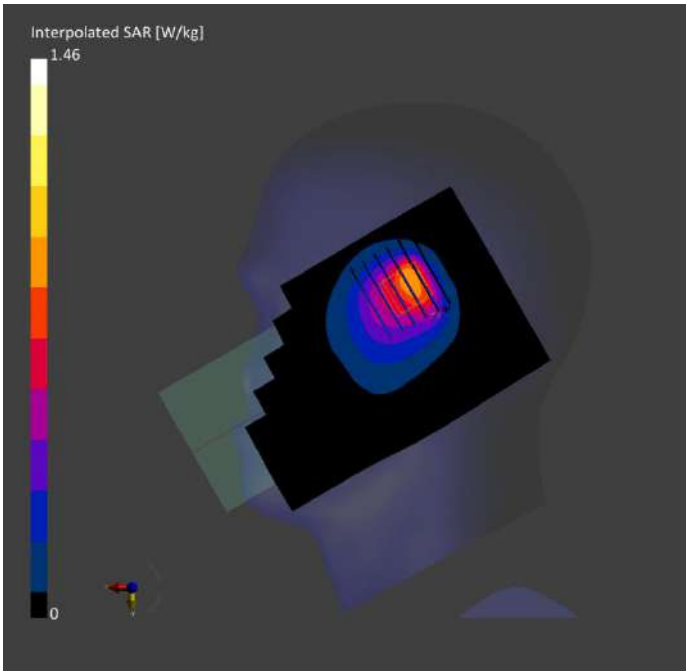
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-01-29	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-01-29	2025-01-29
psSAR1g [W/kg]	0.815	0.734
psSAR10g [W/kg]	0.518	0.458
Power Drift [dB]	0.03	0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		42.9
Dist 3dB Peak [mm]		8.0



Meas.60 Body Plane with Back Side 15mm on Middle Channel in LTE Band28 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band 28	LTE-FDD, 10169-CAF	728.0, 27460	10.29	0.868	43.2	22.3	21.5

Hardware Setup

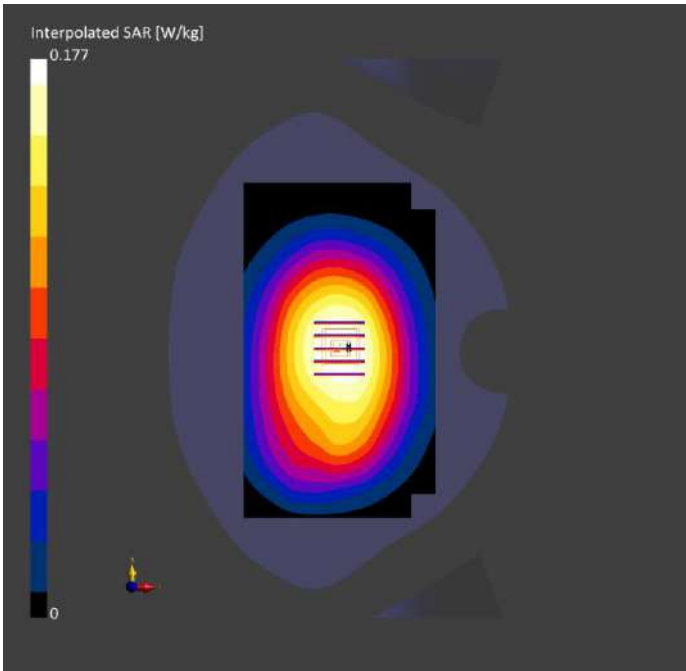
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-01-29	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-01-29	2025-01-29
psSAR1g [W/kg]	0.125	0.137
psSAR10g [W/kg]	0.090	0.107
Power Drift [dB]	0.03	-0.08
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		77.4
Dist 3dB Peak [mm]		> 16.0



Meas.61 Body Plane with Back Side 10mm on Middle Channel in LTE Band28 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 10.00	Band 28	LTE-FDD, 10169-CAF	728.0, 27460	10.29	0.868	43.2	22.3	21.5

Hardware Setup

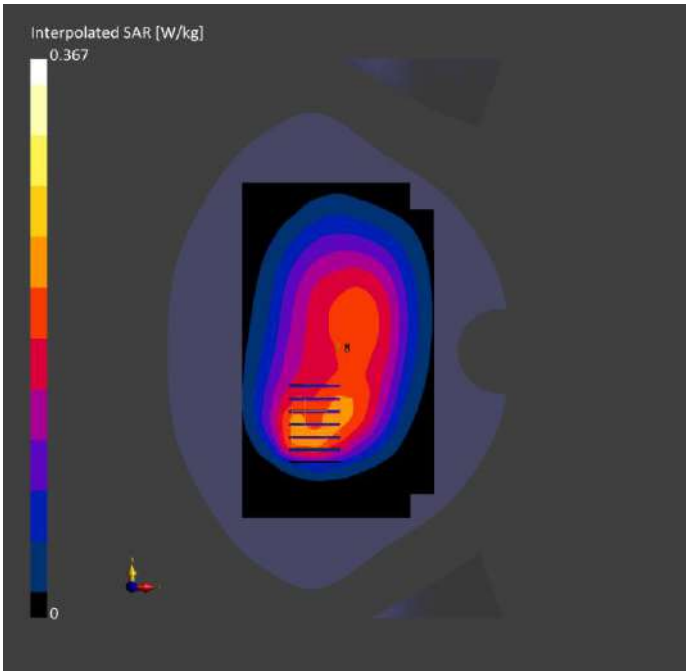
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-01-29	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-01-29	2025-01-29
psSAR1g [W/kg]	0.207	0.213
psSAR10g [W/kg]	0.143	0.142
Power Drift [dB]	-0.11	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		56.6
Dist 3dB Peak [mm]		13.7



Meas.62 Right Head with Cheek on High Channel in LTE Band66 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
RightHead, HSL	CHEEK, 0.00	Band 66	LTE-FDD, 10169-CAF	1770.0, 132572	8.67	1.42	39.1	22.2	21.3

Hardware Setup

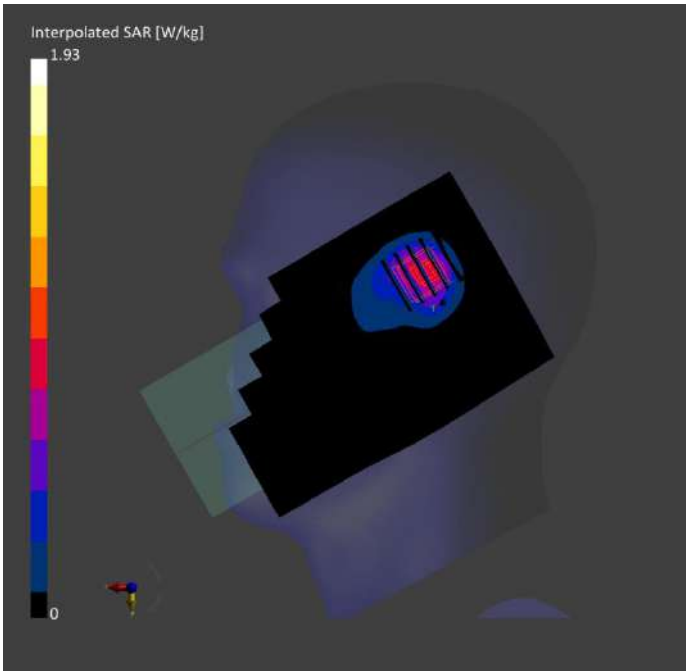
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-05	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-05	2025-02-05
psSAR1g [W/kg]	0.736	1.00
psSAR10g [W/kg]	0.426	0.496
Power Drift [dB]	0.07	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		49.3
Dist 3dB Peak [mm]		8.0



Meas.63 Body Plane with Back Side 15mm on High Channel in LTE Band66 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band 66	LTE-FDD, 10169-CAF	1770.0, 132572	8.67	1.42	39.1	22.2	21.3

Hardware Setup

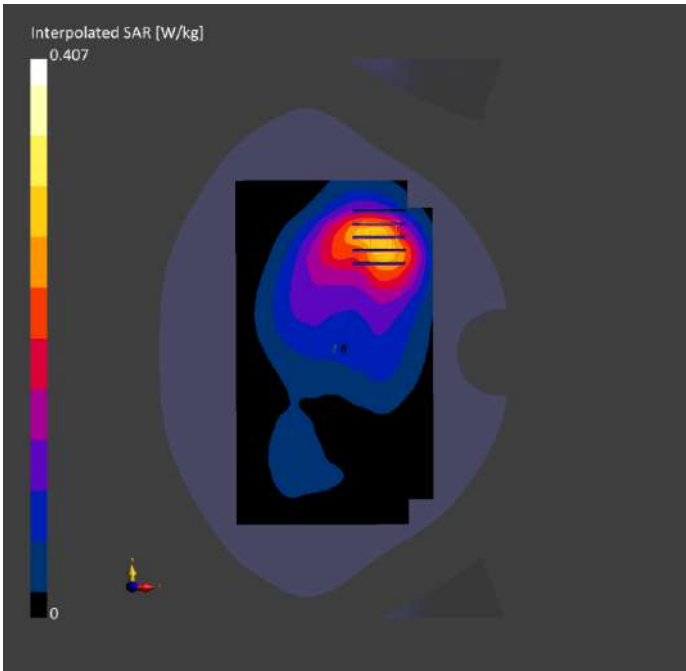
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-05	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-05	2025-02-05
psSAR1g [W/kg]	0.256	0.268
psSAR10g [W/kg]	0.155	0.167
Power Drift [dB]	0.01	-0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		66.7
Dist 3dB Peak [mm]		13.6



Meas.64 Body Plane with Bottom Edge 10mm on High Channel in LTE Band66 mode with Antenna 0

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL	EDGE BOTTOM, 10.00	Band 66	LTE-FDD, 10169-CAF	1770.0, 132572	8.67	1.42	39.1	22.2	21.3

Hardware Setup

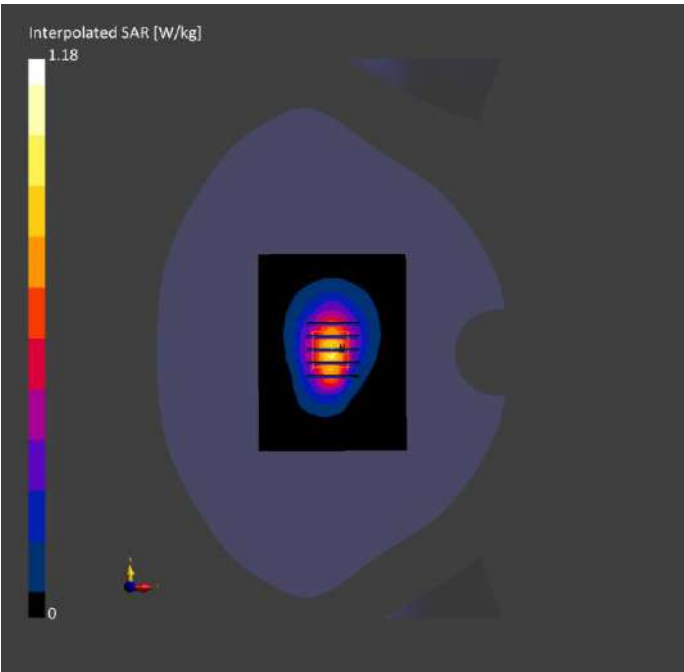
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-05	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-05	2025-02-05
psSAR1g [W/kg]	0.747	0.777
psSAR10g [W/kg]	0.414	0.463
Power Drift [dB]	-0.11	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		66.5
Dist 3dB Peak [mm]		11.5



Meas.65 Body Plane with Bottom Edge 0mm on High Channel in LTE Band66 mode with Antenna 0

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL	EDGE BOTTOM, 0.00	Band 66	LTE-FDD, 10169-CAF	1770.0, 132572	8.67	1.42	39.1	22.2	21.3

Hardware Setup

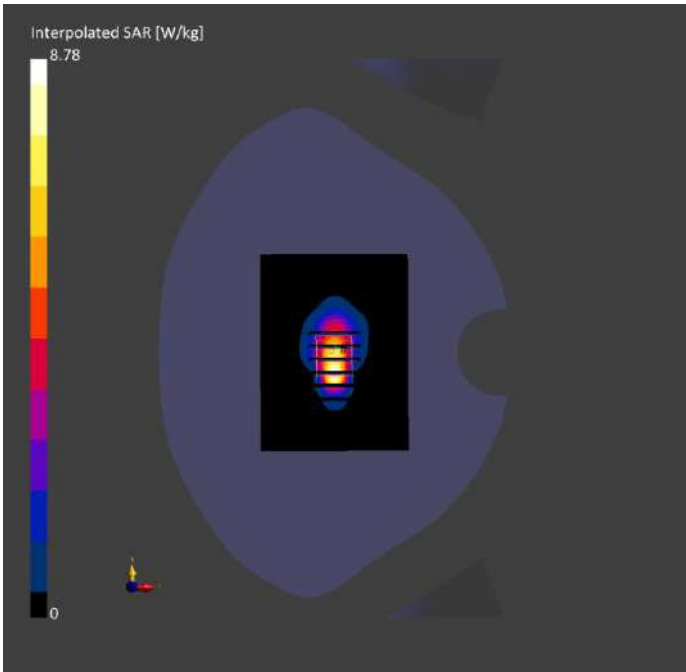
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-05	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-05	2025-02-05
psSAR1g [W/kg]	3.86	3.72
psSAR10g [W/kg]	1.86	1.76
Power Drift [dB]	-0.05	-0.15
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		36.9
Dist 3dB Peak [mm]		4.8



Meas.66 Right Head with Cheek on Middle Channel in LTE Band38 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
RightHead, HSL	CHEEK, 0.00	Band 38	LTE-TDD, 10172-CAH	2595.0, 38000	7.59	1.91	38.2	22.3	21.4

Hardware Setup

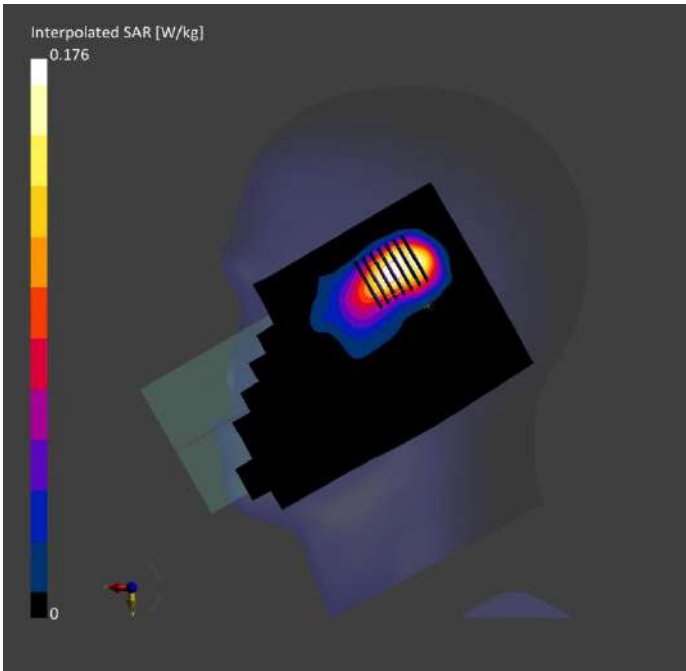
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-10	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-10	2025-02-10
psSAR1g [W/kg]	0.080	0.092
psSAR10g [W/kg]	0.042	0.046
Power Drift [dB]	0.01	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		42.8
Dist 3dB Peak [mm]		9.9



Meas.67 Body Plane with Front Side 15mm on High Channel in LTE Band38 mode with Antenna 0

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL	FRONT, 15.00	Band 38	LTE-TDD, 10172-CAH	2610.0, 38150	7.59	1.95	37.8	22.3	21.4

Hardware Setup

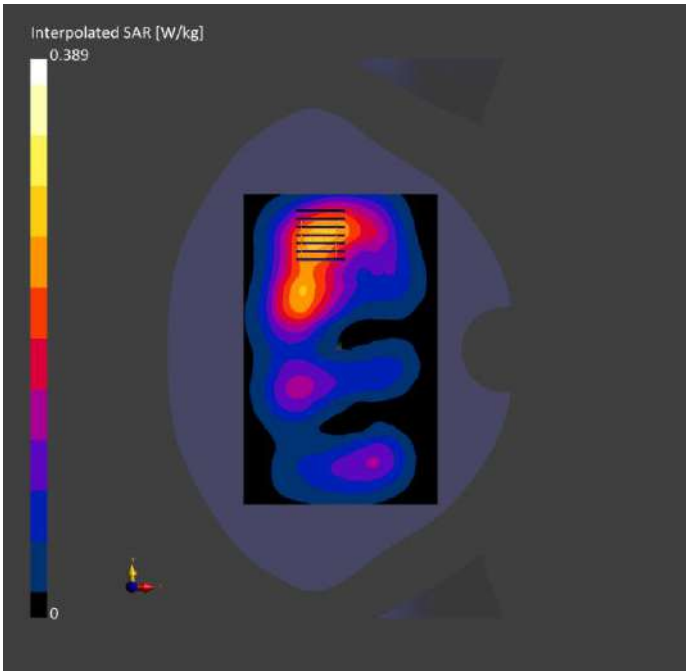
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-10	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-10	2025-02-10
psSAR1g [W/kg]	0.228	0.229
psSAR10g [W/kg]	0.128	0.134
Power Drift [dB]	0.08	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		56.5
Dist 3dB Peak [mm]		19.2



Meas.68 Body Plane with Back Side 10mm on Middle Channel in LTE Band38 mode with Antenna 0

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 10.00	Band 38	LTE-TDD, 10172-CAH	2595.0, 38000	7.59	1.91	38.2	22.3	21.4

Hardware Setup

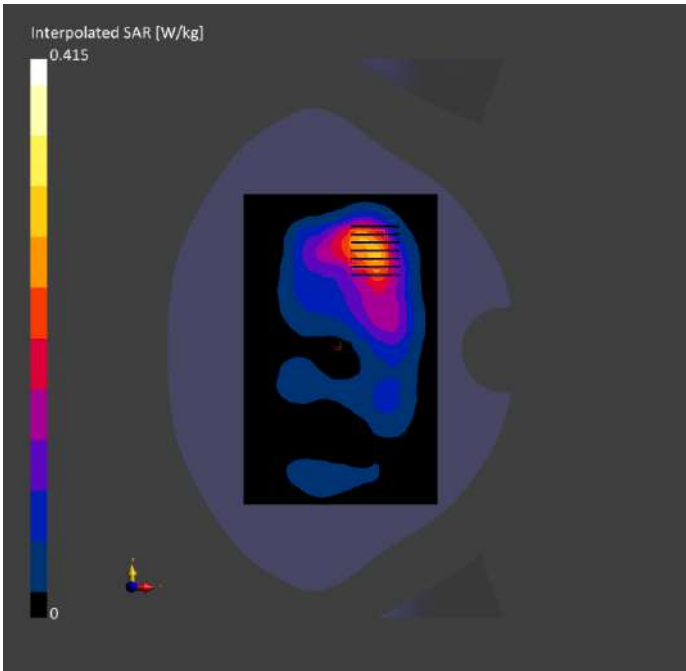
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-10	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-10	2025-02-10
psSAR1g [W/kg]	0.238	0.244
psSAR10g [W/kg]	0.128	0.133
Power Drift [dB]	-0.06	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		59.8
Dist 3dB Peak [mm]		12.1



Meas.69 Right Head with Cheek on Low Channel in LTE Band41 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
RightHead, HSL	CHEEK, 0.00	Band 41	LTE-TDD, 10172-CAH	2545.0, 40140	7.75	1.89	39.3	22.6	21.7

Hardware Setup

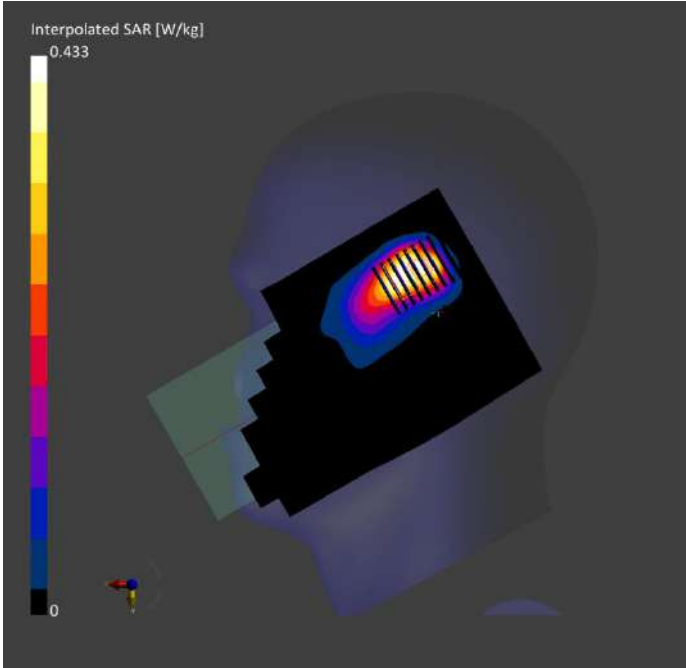
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-11	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-11	2025-02-11
psSAR1g [W/kg]	0.176	0.197
psSAR10g [W/kg]	0.094	0.10
Power Drift [dB]	-0.02	0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		43.3
Dist 3dB Peak [mm]		7.1



Meas.70 Body Plane with Front Side 15mm on Middle Channel in LTE Band41 mode with Antenna 0
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL	Front, 15.00	Band 41	LTE-TDD, 10172-CAH	2595.0, 40640	7.59	1.90	39.1	22.6	21.7

Hardware Setup

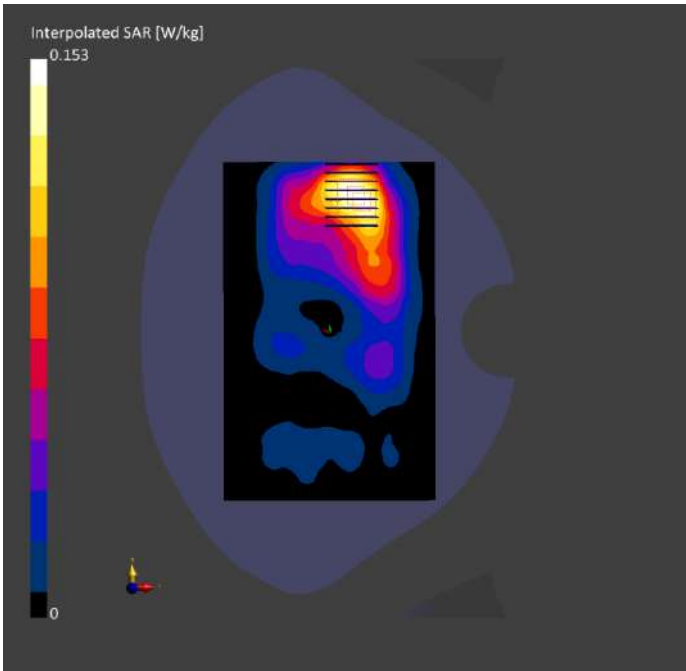
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-11	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-11	2025-02-11
psSAR1g [W/kg]	0.087	0.087
psSAR10g [W/kg]	0.048	0.048
Power Drift [dB]	0.03	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.9
Dist 3dB Peak [mm]		13.9



Meas.71 Body Plane with Back Side 10mm on Middle Channel in LTE Band41 mode with Antenna 0

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 10.00	Band 41	LTE-TDD, 10172-CAH	2595.0, 40640	7.59	1.90	39.1	22.6	21.7

Hardware Setup

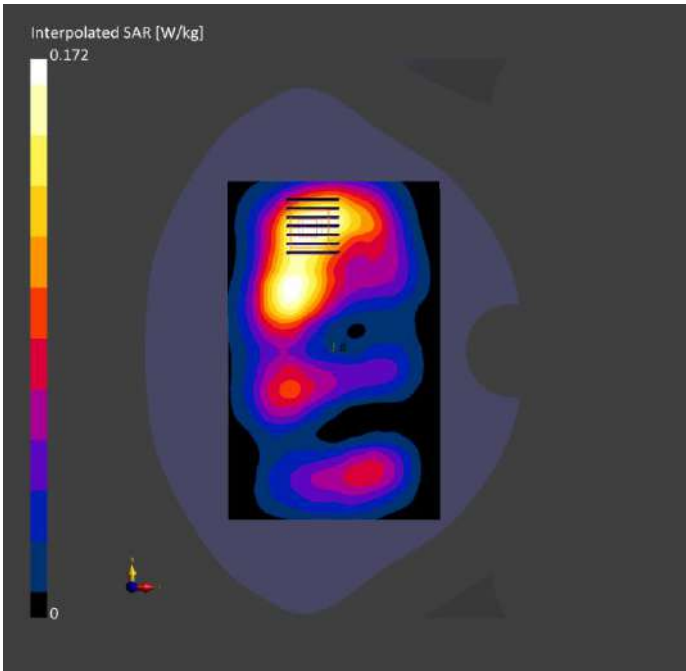
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-11	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-11	2025-02-11
psSAR1g [W/kg]	0.099	0.101
psSAR10g [W/kg]	0.056	0.058
Power Drift [dB]	0.01	0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		57.6
Dist 3dB Peak [mm]		17.5



Meas.72 Left Head with Cheek on 6 Channel in IEEE802.11b mode with Antenna 3

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
LeftHead, HSL	CHEEK, 0.00	WLAN 2.4GHz	WLAN, 10415-AAA	2437.0, 6	7.75	1.78	39.8	22.5	21.6

Hardware Setup

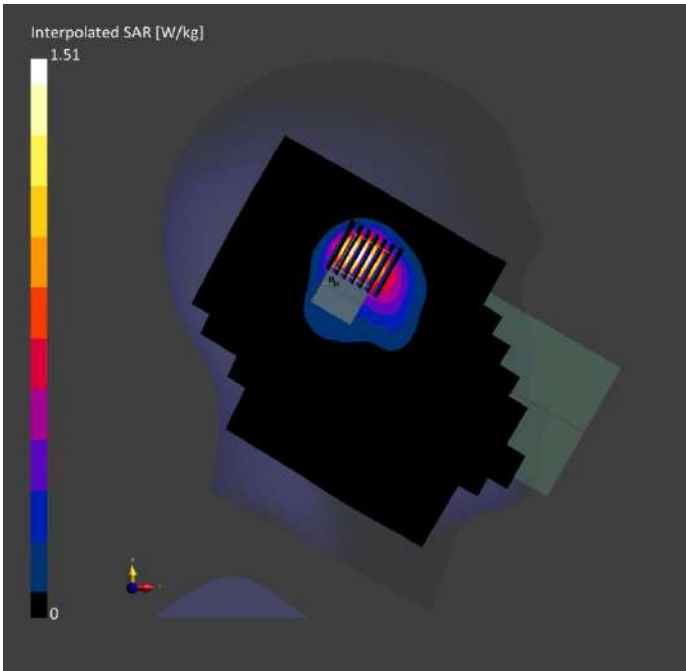
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-08	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-08	2025-02-08
psSAR1g [W/kg]	0.783	0.803
psSAR10g [W/kg]	0.387	0.405
Power Drift [dB]	0.00	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		54.1
Dist 3dB Peak [mm]		9.2



Meas.73 Body Plane with Back Side 15mm on 6 Channel in IEEE802.11b mode with Antenna 3

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	WLAN 2.4GHz	WLAN, 10415- AAA	2437.0, 6	7.75	1.78	39.8	22.5	21.6

Hardware Setup

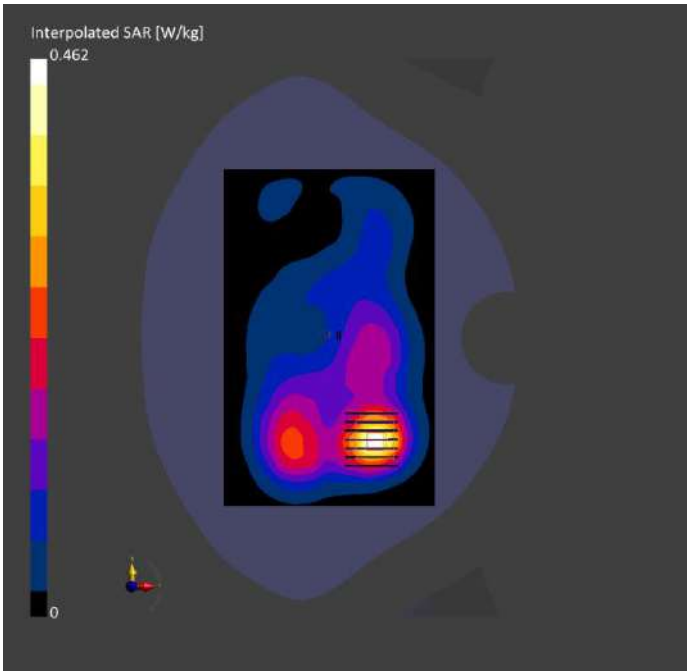
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-08	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-08	2025-02-08
psSAR1g [W/kg]	0.247	0.257
psSAR10g [W/kg]	0.126	0.136
Power Drift [dB]	0.02	-0.15
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		55.7
Dist 3dB Peak [mm]		12.2



Meas.74 Body Plane with Back Side 10mm on 6 Channel in IEEE802.11b mode with Antenna 3

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 10.00	WLAN 2.4GHz	WLAN, 10415-AAA	2437.0, 6	7.75	1.78	39.8	22.5	21.6

Hardware Setup

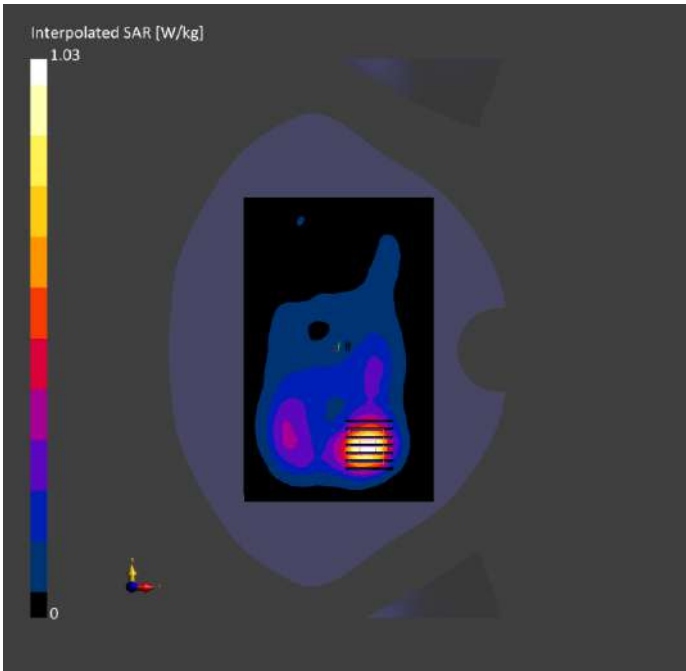
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-08	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-08	2025-02-08
psSAR1g [W/kg]	0.526	0.552
psSAR10g [W/kg]	0.263	0.273
Power Drift [dB]	0.08	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		52.3
Dist 3dB Peak [mm]		11.7



Meas.75 Body Plane with Back Side 0mm on 6 Channel in IEEE802.11b mode with Antenna 3

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 0.00	WLAN 2.4GHz	WLAN, 10415-AAA	2437.0, 6	7.75	1.78	39.8	22.5	21.6

Hardware Setup

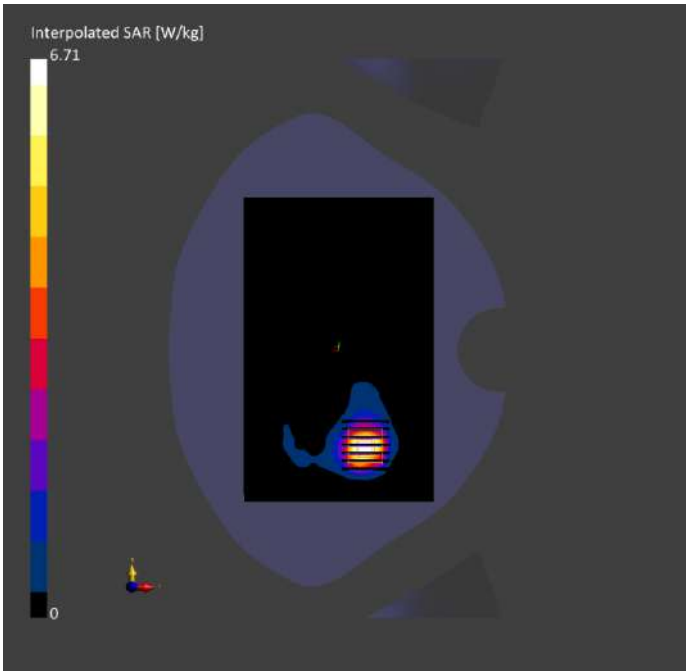
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-08	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-08	2025-02-08
psSAR1g [W/kg]	2.66	3.00
psSAR10g [W/kg]	1.24	1.29
Power Drift [dB]	0.04	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		44.1
Dist 3dB Peak [mm]		7.6



Meas.76 Left Head with Cheek on 54 Channel in IEEE802.11n40 mode with Antenna 3

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
LeftHead, HSL	CHEEK, 0.00	WLAN 5GHz	WLAN, 10114-CAE	5270.0, 54	5.50	4.65	36.8	22.7	21.8

Hardware Setup

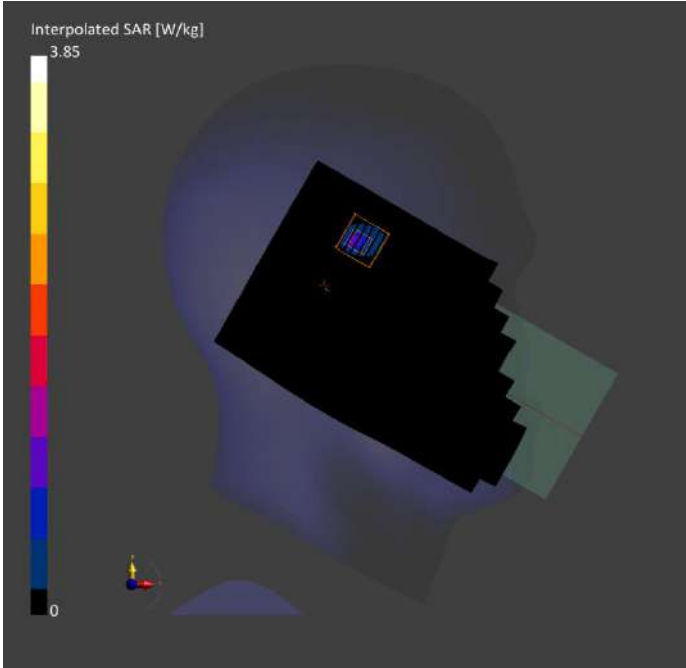
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-12	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-12	2025-02-12
psSAR1g [W/kg]	0.667	0.837
psSAR10g [W/kg]	0.186	0.207
Power Drift [dB]	0.12	0.18
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		48.4
Dist 3dB Peak [mm]		4.6



Meas.77 Left Head with Cheek on 122 Channel in IEEE802.11ac80 mode with Antenna 3

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
LeftHead, HSL	CHEEK, 0.00	WLAN 5GHz	WLAN, 10114-CAE	5610.0, 122	5.00	5.11	34.7	22.2	21.3

Hardware Setup

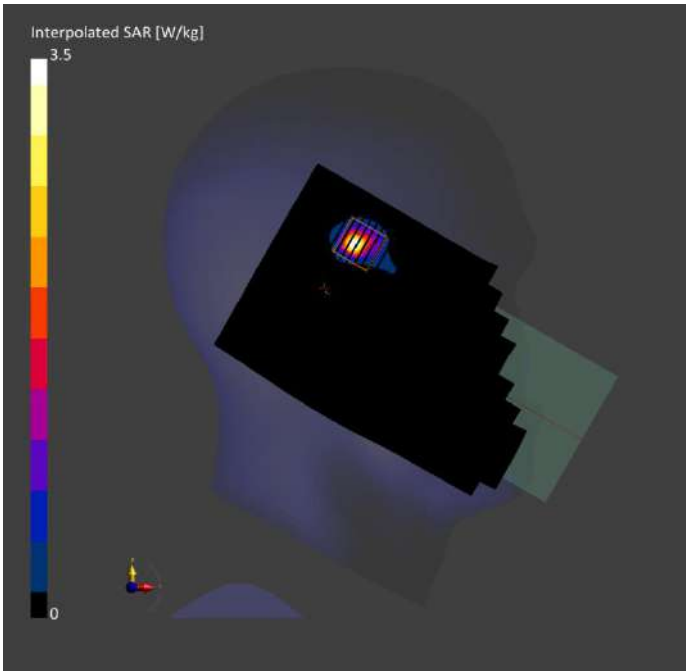
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-13	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	Y	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-13	2025-02-13
psSAR1g [W/kg]	0.575	0.712
psSAR10g [W/kg]	0.149	0.171
Power Drift [dB]	0.03	0.07
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		45.4
Dist 3dB Peak [mm]		5.0



Meas.78 Left Head with Cheek on 155 Channel in IEEE802.11ac80 mode with Antenna 3

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
LeftHead, HSL	CHEEK, 0.00	WLAN 5GHz	WLAN, 10114-CAE	5775.0, 155	5.04	5.24	34.4	22.2	21.4

Hardware Setup

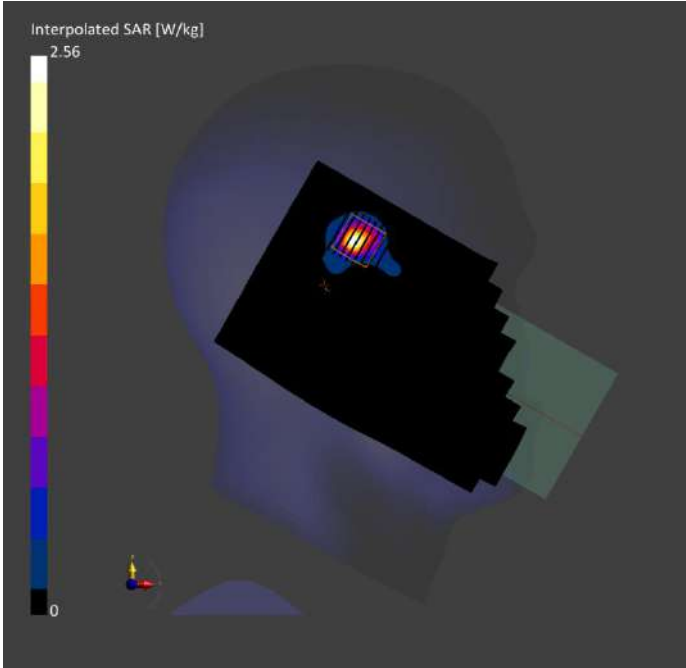
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000	2025-02-14	EX3DV4 - SN7510, 2024-06-25		DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	Y	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-14	2025-02-14
psSAR1g [W/kg]	0.425	0.521
psSAR10g [W/kg]	0.118	0.130
Power Drift [dB]	0.07	0.09
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		43.3
Dist 3dB Peak [mm]		5.6



Meas.79 Body Plane with Back Side 15mm on 52 Channel in IEEE802.11a mode with Antenna 3

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	WLAN 5GHz	WLAN, 10417- AAC	5260.0, 52	5.50	4.63	36.9	22.7	21.8

Hardware Setup

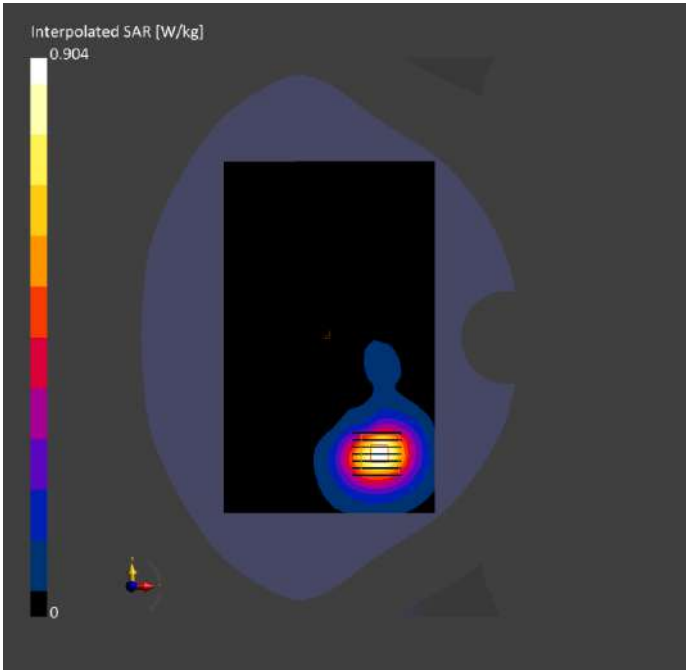
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-12	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-12	2025-02-12
psSAR1g [W/kg]	0.330	0.331
psSAR10g [W/kg]	0.133	0.133
Power Drift [dB]	0.09	0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		62.3
Dist 3dB Peak [mm]		11.3



Meas.80 Body Plane with Back Side 15mm on 116 Channel in IEEE802.11n20 mode with Antenna 3

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	WLAN 5GHz	WLAN, 10193- CAD	5580.0, 116	5.00	5.04	35.5	22.2	21.3

Hardware Setup

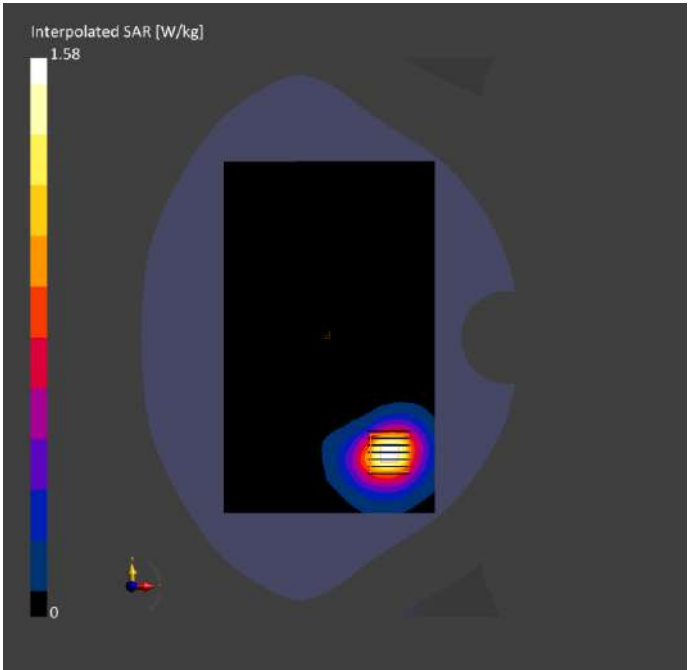
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-13	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-13	2025-02-13
psSAR1g [W/kg]	0.557	0.550
psSAR10g [W/kg]	0.219	0.219
Power Drift [dB]	0.07	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		60.9
Dist 3dB Peak [mm]		11.6



Meas.81 Body Plane with Back Side 15mm on 149 Channel in IEEE802.11a mode with Antenna 3

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	WLAN 5GHz	WLAN, 10417- AAC	5745.0, 149	5.04	5.15	35.6	22.2	21.4

Hardware Setup

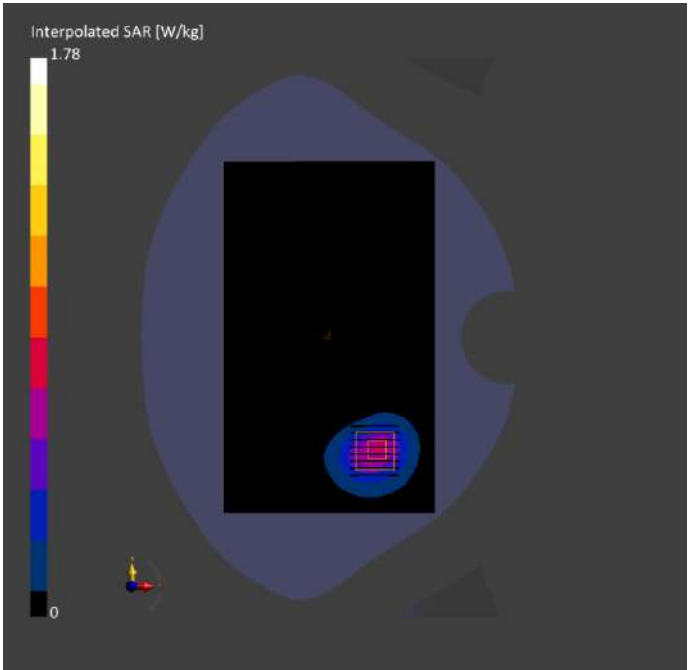
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-14	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-14	2025-02-14
psSAR1g [W/kg]	0.573	0.590
psSAR10g [W/kg]	0.230	0.237
Power Drift [dB]	0.13	0.01
Power Scaling	Disabled	Disabled
Scaling Factor		
[dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		58.9
Dist 3dB Peak [mm]		11.6



Meas.82 Body Plane with Back Side 10mm on 42 Channel in IEEE802.11ac80 mode with Antenna 3

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 10.00	WLAN 5GHz	WLAN, 10114- CAE	5210.0, 42	5.74	4.59	37.2	22.7	21.8

Hardware Setup

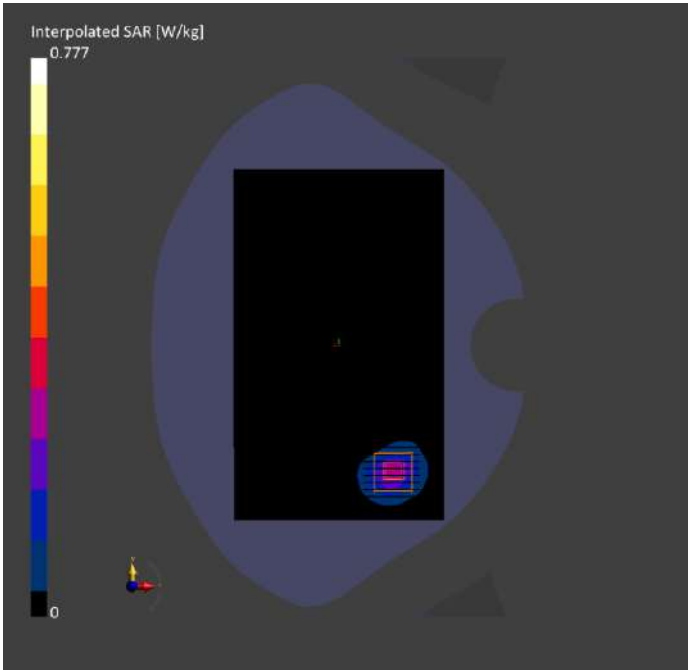
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-12	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-12	2025-02-12
psSAR1g [W/kg]	0.143	0.139
psSAR10g [W/kg]	0.057	0.049
Power Drift [dB]	0.02	-0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		56.1
Dist 3dB Peak [mm]		8.2



Meas.83 Body Plane with Back Side 10mm on 155 Channel in IEEE802.11ac80 mode with Antenna 3

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 10.00	WLAN 5GHz	WLAN, 10114- CAE	5775.0, 155	5.04	5.24	34.4	22.2	21.4

Hardware Setup

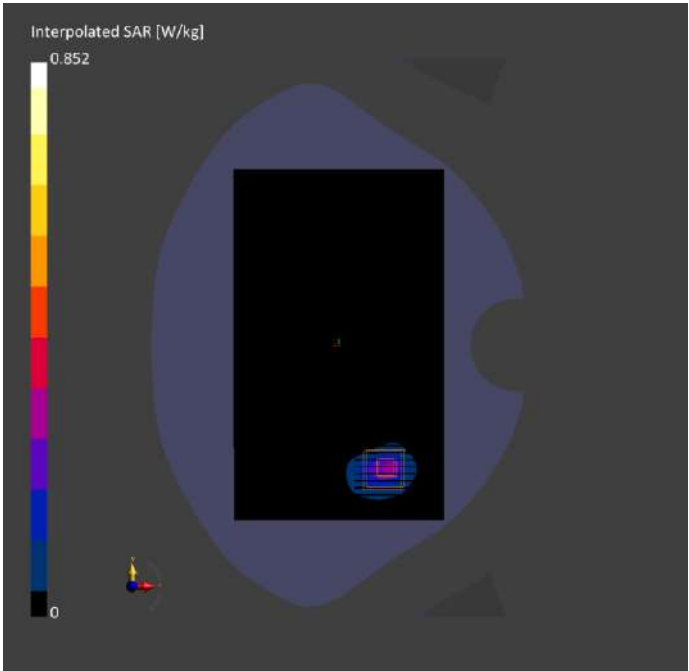
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-14	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	Y	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-14	2025-02-14
psSAR1g [W/kg]	0.202	0.181
psSAR10g [W/kg]	0.071	0.063
Power Drift [dB]	-0.05	-0.10
Power Scaling	Disabled	Disabled
Scaling Factor		
[dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.5
Dist 3dB Peak [mm]		8.0



Meas.84 Body Plane with Left Edge 0mm on 52 Channel in IEEE802.11a mode with Antenna 3

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE LEFT, 0.00	WLAN 5GHz	WLAN, 10417- AAC	5260.0, 52	5.50	4.63	36.9	22.7	21.8

Hardware Setup

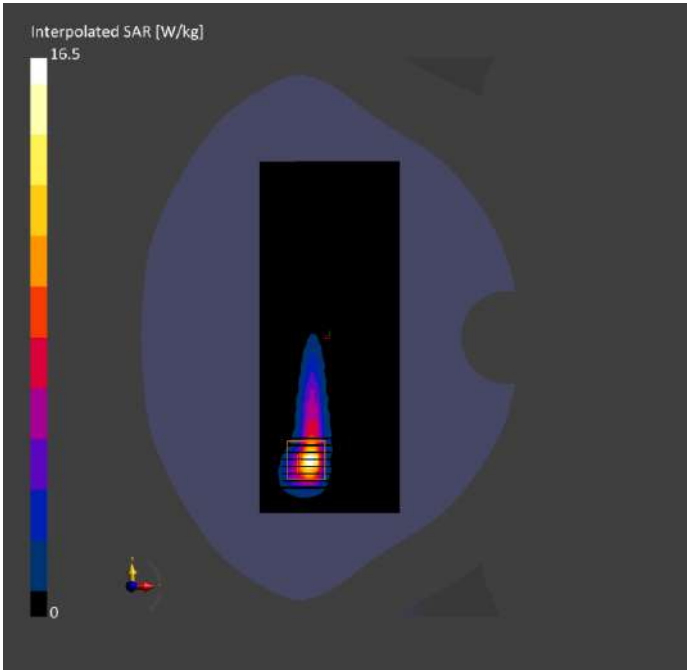
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-12	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 200.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-12	2025-02-12
psSAR1g [W/kg]	2.68	4.08
psSAR10g [W/kg]	0.805	0.995
Power Drift [dB]	0.03	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor		
[dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		51.8
Dist 3dB Peak [mm]		3.3



Meas.85 Body Plane with Back Side 0mm on 116 Channel in IEEE802.11a mode with Antenna 3

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 0.00	WLAN 5GHz	WLAN, 10193- CAD	5580.0, 116	5.00	5.04	35.5	22.2	21.3

Hardware Setup

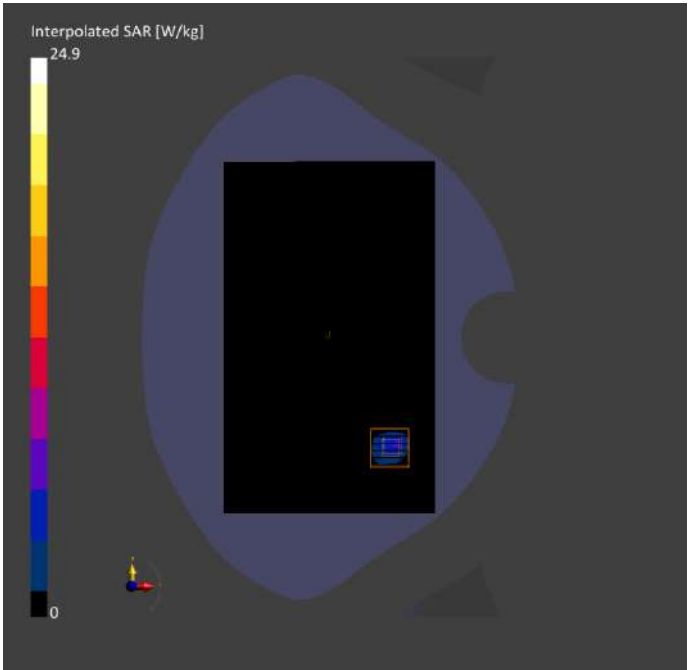
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-13	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-13	2025-02-13
psSAR1g [W/kg]	4.38	6.21
psSAR10g [W/kg]	1.23	1.34
Power Drift [dB]	0.04	0.04
Power Scaling	Disabled	Disabled
Scaling Factor		
[dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		58.5
Dist 3dB Peak [mm]		4.3



Meas.86 Left Head with Cheek on 39 Channel in Bluetooth mode with Antenna 3

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
LeftHead, HSL	CHEEK, 0.00	ISM 2.4 GHz Band	Bluetooth, 10032-CAA	2441.0, 39	7.75	1.80	39.7	22.5	21.6

Hardware Setup

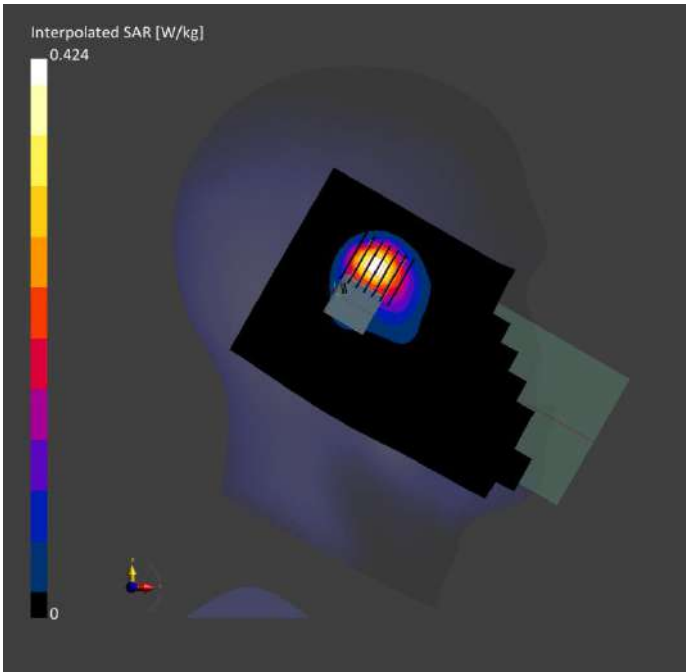
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-08	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-08	2025-02-08
psSAR1g [W/kg]	0.213	0.218
psSAR10g [W/kg]	0.100	0.105
Power Drift [dB]	0.04	0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		46.6
Dist 3dB Peak [mm]		8.5



Meas.87 Body Plane with Back Side 15mm on 39 Channel in Bluetooth mode with Antenna 3

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL	BACK, 15.00	ISM 2.4 GHz Band	Bluetooth, 10032-CAA	2441.0, 39	7.75	1.80	39.7	22.5	21.6

Hardware Setup

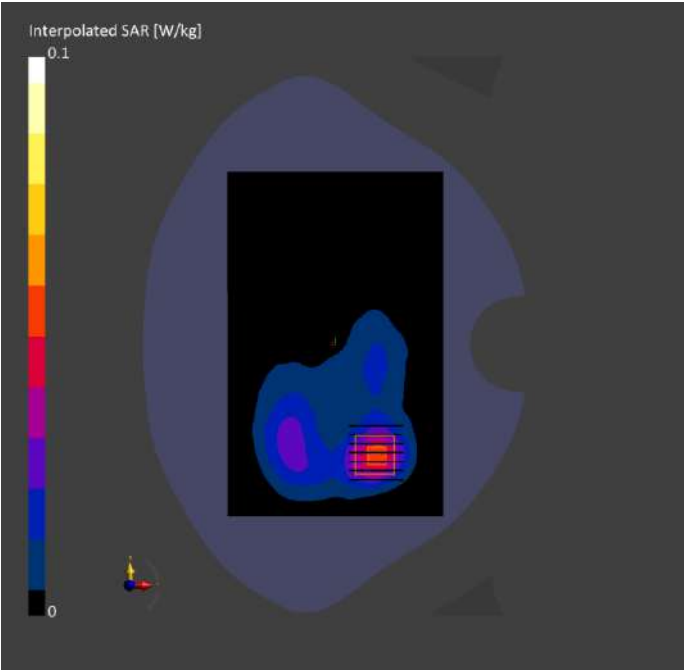
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-08	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-08	2025-02-08
psSAR1g [W/kg]	0.044	0.049
psSAR10g [W/kg]	0.022	0.024
Power Drift [dB]	0.07	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		49.6
Dist 3dB Peak [mm]		> 15.0



Meas.88 Body Plane with Back Side 10mm on 39 Channel in Bluetooth mode with Antenna 3

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL	BACK, 10.00	ISM 2.4 GHz Band	Bluetooth, 10032-CAA	2441.0, 39	7.75	1.80	39.7	22.5	21.6

Hardware Setup

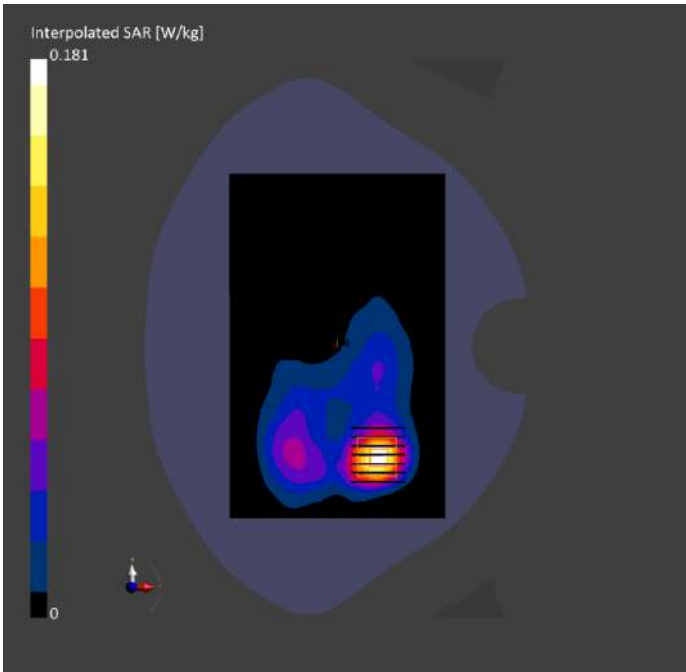
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-08	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-08	2025-02-08
psSAR1g [W/kg]	0.084	0.091
psSAR10g [W/kg]	0.040	0.042
Power Drift [dB]	0.09	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		49.7
Dist 3dB Peak [mm]		9.5



Meas.89 Body Plane with Back Side 0mm on 39 Channel in Bluetooth mode with Antenna 3

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL	BACK, 0.00	ISM 2.4 GHz Band	Bluetooth, 10032-CAA	2441.0, 39	7.75	1.80	39.7	22.5	21.6

Hardware Setup

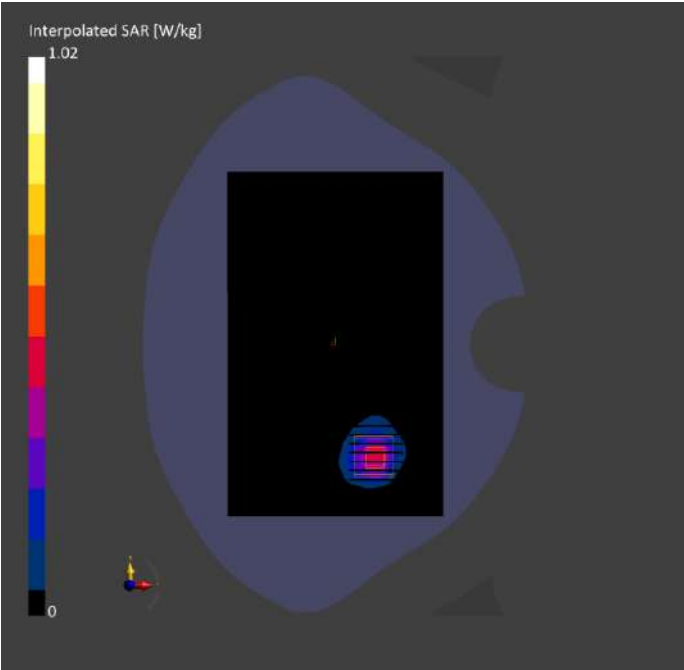
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2025-02-08	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn540, 2024-02-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-08	2025-02-08
psSAR1g [W/kg]	0.384	0.436
psSAR10g [W/kg]	0.175	0.184
Power Drift [dB]	0.01	0.11
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		40.0
Dist 3dB Peak [mm]		7.6



ANNEX D EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2510972-AW.pdf”.

ANNEX E SAR TEST SETUP PHOTOS

Please refer the document “BL-SZ210972-AS.pdf”.

ANNEX F CALIBRATION REPORT

Please refer the document “BL-SZ2510972-AC.pdf”.

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