TEST REPORT

Applicant:	INFINIX MOBILITY LIMITED
Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Equipment Type:	Mobile phone
Model Name:	X6882
Brand Name:	Infinix
FCC ID:	2AIZN-YYS-X6882
Test Standard:	FCC 47 CFR Part 2.1093 (refer to section 3.1)
Maximum SAR:	Head (1 g@0mm): 0.78 W/kg Body-worn (1 g@10mm): 0.52 W/kg Hotspot (1 g@10mm): 0.64 W/kg Specific (10 g@0mm): 1.18 W/kg
Sample Arrival Date:	Jun. 25, 2024
Test Date:	Jun. 30, 2024 - Jul. 29, 2024
Date of Issue:	Aug. 13, 2024

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Xiong Lining **Checked by:** Xu Rui **Approved by:** Tolan Tu

(Testing Director)

Revision History

Version	Issue Date	Revisions Content
Rev. 01	Aug. 13, 2024	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℃ to 25℃
Ambient Relative Humidity	30% to 70%

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	INFINIX MOBILITY LIMITED
Address	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

2.2 Manufacturer Information

Manufacturer	INFINIX MOBILITY LIMITED
Address	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

2.3 General Description for Equipment under Test (EUT)

EUT Name	Mobile phone
Model Name Under Test	X6882
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	N/A
Software Version	N/A
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Ancillary Equipment

Ancillary Equipment 1	Battery 1	
	Brand Name	N/A
	Model No.	BL-5ABX
	Serial No.	N/A
	Capacity	Rated: 4900mAh/18.97Wh Typical: 5000mAhl/19.35Wh
	Rated Voltage	3.87 V
	Limit Charge Voltage	4.45 V
Ancillary Equipment 6	Headset	
	Length (Approx.)	1.2m

2.5 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS 850/1900 3G Network WCDMA/HSDPA/HSUPA Band 2/4/5 4G Network FDD LTE Band 2/4/5/7/12/13/17/25/26/66 TDD LTE Band 38/41 LTE CA Uplink (UL): CA_2C, CA_5B, CA_7C, CA_38C, CA_41C, CA_66C Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n(HT20/40) and 802.11ac(VHT20/40/80) GPS, GLONASS, BDS, Galileo, SBAS, NFC, 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 1900	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	WCDMA Band 2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	WCDMA Band 4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	WCDMA Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	LTE Band 4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	LTE Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 7	TX: 2500 ~ 2570 MHz	RX: 2620 ~ 2690 MHz
	LTE Band 12	TX: 699 ~ 716 MHz	RX: 729 ~ 746 MHz
	LTE Band 13	TX: 777 ~787 MHz	RX: 746 ~ 756 MHz
	LTE Band 17	TX: 704 ~716 MHz	RX: 734 ~ 746 MHz
	LTE Band 25	TX: 1850 ~ 1915 MHz	RX: 1930 ~ 1995 MHz
	LTE Band 26	TX: 814 ~ 849 MHz	RX: 859 ~894 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: 2496 ~ 2690 MHz	RX: 2496 ~ 2690 MHz
	802.11b/g /n(HT20)	2412 ~ 2462 MHz	
	802.11a/ /n(HT20/HT40) /ac(VHT20/VHT40/ VHT80)	5150 ~ 5250 MHz	
		5250 ~ 5350 MHz	
		5470 ~ 5725 MHz	
		5725 ~ 5850 MHz	
	Bluetooth	2402 ~ 2480 MHz	
	NFC	13.56 MHz	
Antenna Type	WWAN: PIFA Antenna		

	WIFI: PIFA Antenna Bluetooth: PIFA Antenna NFC: Coil Antenna	
DTM	N/A	
Hotspot Function	Support	
Power Reduction	Support	
Exposure Category	General Population/Uncontrolled exposure	
Product Type	Portable Device	
EUT Type	☒ Production unit	☐ Identical prototype

3 SUMMARY OF TEST RESULT

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 2.1093	Radiofrequency radiation exposure evaluation: portable devices
2	ANSI C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz
3	IEEE Std. 1528-2013	IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate(SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
4	KDB 447498 D04 v01	447498 D04 Interim General RF Exposure Guidance v01
5	KDB 941225 D01 v03r01	3G SAR MEAUREMENT PROCEDURES
6	KDB 941225 D05 v02r05	SAR Evaluation Considerations for LTE Devices
7	KDB 941225 D05A v01r02	REL. 10 LTE SAR TEST GUIDANCE AND KDB INQUIRIES
8	KDB 941225 D06 v02r01	SAR EVALUATION PROCEDURES FOR PORTABLE DEVICES WITH WIRELESS ROUTER CAPABILITIES
9	KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
10	KDB 865664 D02 v01r02	RF Exposure Reporting
11	KDB 648474 D04 v01r03	SAR EVALUATION CONSIDERATIONS FOR WIRELESS HANDSETS
12	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/ ControlledExposure
Whole-Body SAR (averaged over the entire body)	0.08	0.4
Partial-Body SAR (averaged over any 1 gram of tissue)	1.60	8.0
SAR for hands, wrists, feet and ankles (averaged over any 10 grams of tissue)	4.0	20.0

NOTE:

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

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

3.3 Test Result Summary

3.3.1 Highest SAR Values

Equipment Class	Band	Maximum Scaled SAR (W/kg)				Maximum Report SAR (W/kg)			
		Head (0mm)	Body-worn (10mm)	Hotspot (10mm)	Specific (0mm)	Head (0mm)	Body-worn (10mm)	Hotspot (10mm)	Specific (0mm)
		1g SAR			10g SAR	1g SAR			10g SAR
PCE	GSM 850	0.76	0.14	0.14	/	0.78	0.52	0.64	1.18
	GSM 1900	0.64	0.31	0.42	/				
	WCDMA Band 2	0.43	0.15	0.22	/				
	WCDMA Band 4	0.66	0.23	0.24	/				
	WCDMA Band 5	0.66	0.22	0.22	/				
	LTE Band 7	0.49	0.19	0.21	/				
	LTE Band 12	0.46	0.13	0.15	/				
	LTE Band 13	0.75	0.20	0.20	/				
	LTE Band 25	0.43	0.12	0.20	/				
	LTE Band 26	0.56	0.14	0.14	/				
	LTE Band 66	0.61	0.16	0.20	/				
	LTE Band 41	0.29	0.15	0.15	/				
DTS	2.4G WIFI	0.70	0.29	0.29	/				
NII	5.2G WIFI	/	/	0.64	/				
	5.3G WIFI	0.78	0.48	/	0.81				
	5.6G WIFI	0.65	0.50	/	1.18				
	5.8G WIFI	0.65	0.52	0.52	/				
DSS	Bluetooth	0.22	0.08	0.08	/				
Limit (W/kg)		1.6			4.0	1.6			4.0
Verdict		PASS							

Note1: This device supports both LTE Band 2/4/5/17/38 and Band 25/66/26/12/41. Since the supported frequency span for LTE Band 2/4/5/17/38 falls completely within the supports frequency span for LTE Band 25/66/26/12/41, both LTE bands have the same target power, and both LTE bands share the same transmission path; therefore, SAR was only assessed for LTE Band 25/66/26/12/41.

3.3.2 Highest Simultaneous Transmission SAR Values

Equipment Class	Maximum Scaled SAR (W/kg)		
	Head 1g (0mm)	Body-worn 1g (10mm)	Hotspot 1g (10mm)
PCE	**1.49**	**1.03**	**1.03**
DTS	1.28	0.60	0.60
NII	**1.49**	**1.03**	**1.03**
DSS	**1.49**	**1.03**	**1.03**
Limit (W/Kg)	1.60		
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 0.78 W/kg, which is lower than 1.5 W/kg, so the extensive SAR measurement uncertainty analysis is not required in this report.
The maximum 10 g SAR for the EUT in this report is 1.18 W/kg, which is lower than 3.75 W/kg, so the extensive SAR measurement uncertainty analysis is not required in this report.

4 MEASUREMENT SYSTEM

4.1 Specific Absorption Rate (SAR) Definition

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

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

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

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

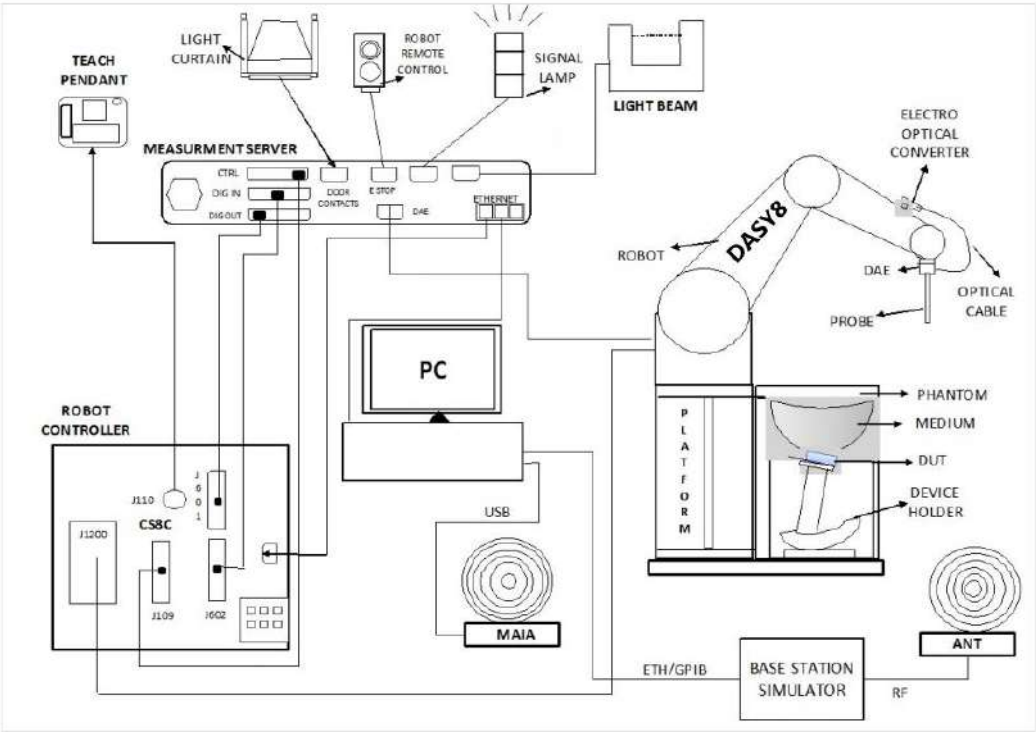
$$\mathbf{SAR} = \frac{\boldsymbol{\sigma E^2}}{\boldsymbol{\rho}}$$

Where: σ is the conductivity of the tissue,

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

4.2 DASY SAR System

4.2.1 DASY SAR System Diagram

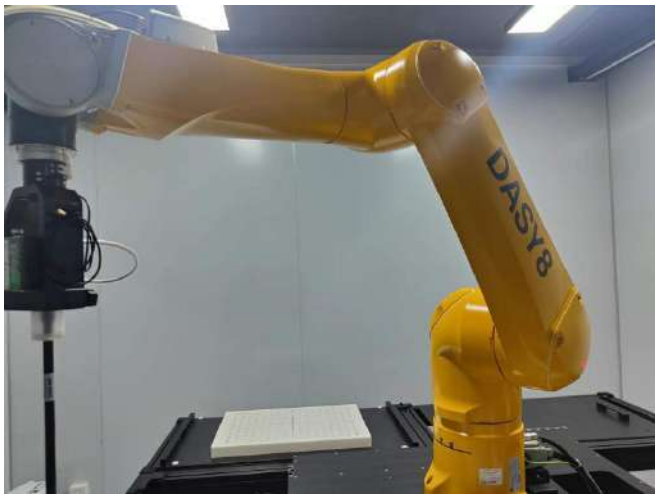


The DASY system for performing compliance tests consists of the following items:

1. A standard high precision 6-axis robot (Stäubli RX family) with controller and software. An arm extension for accommodating the data acquisition electronics (DAE).
2. A dosimetric probe, i.e. an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
3. A data acquisition electronic (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
4. A unit to operate the optical surface detector which is connected to the EOC.
5. The Electro-Optical Coupler (EOC) performs the conversion from the optical into a digital electric signal of the DAE. The EOC is connected to the 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-SN:7510&7607 with following specifications is used.

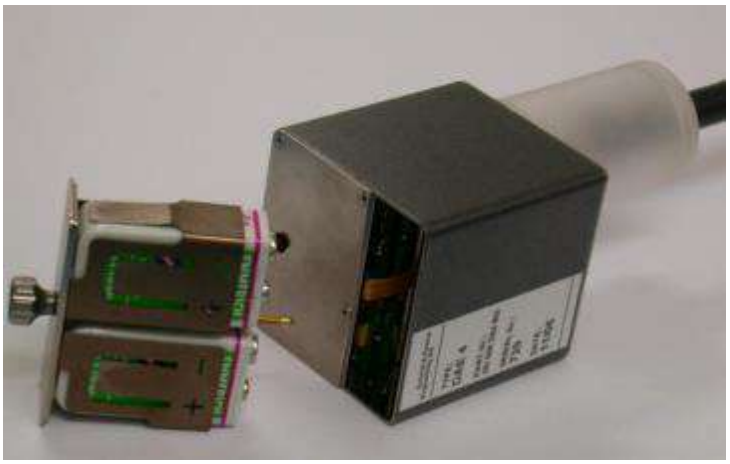
Construction	Symmetrical design with triangular core Built-in optical fiber for surface detection system Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., glycolether)
Calibration	ISO/IEC 17025 calibration service available
Frequency	4 MHz to 10 GHz; 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 μW/g to > 100 mW/g; Linearity: ± 0.2 dB
Dimensions	Overall length: 337 mm (Tip: 9 mm) Tip diameter: 2.5 mm (Body: 10 mm) Distance from probe tip to dipole centers: 1.0 mm
Application	General dosimetry up to 3 GHz Compliance tests of mobile phones Fast automatic scanning in arbitrary phantoms (EX3DV4)

E-Field Probe Calibration Process

Probe calibration is realized, in compliance with 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

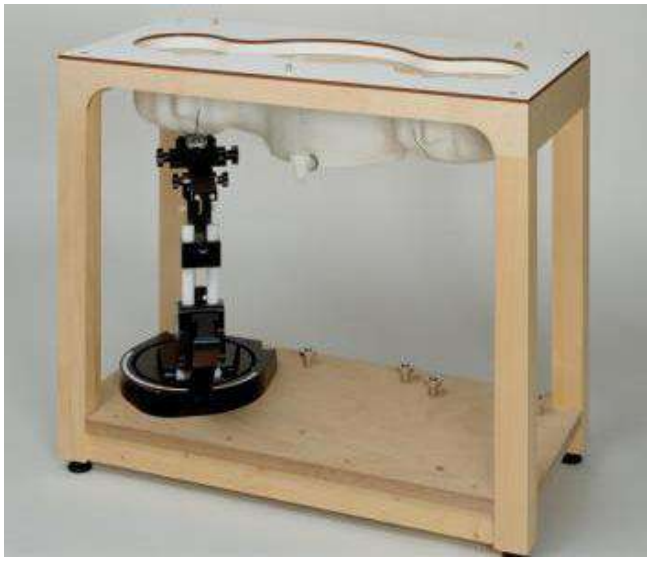
The data acquisition electronics (DAE) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converte and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an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



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

4.2.5 Phantoms

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



- Left 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.

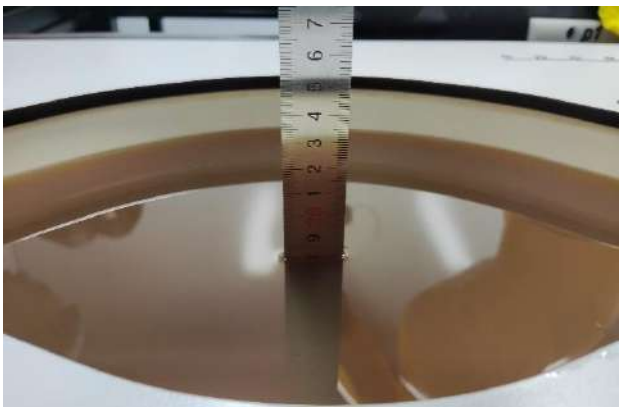
The positioning system allows obtaining cheek and tilting position with a very good accuracy. Incompliance with CENELEC, the tilt angle uncertainty is lower than 1°.

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

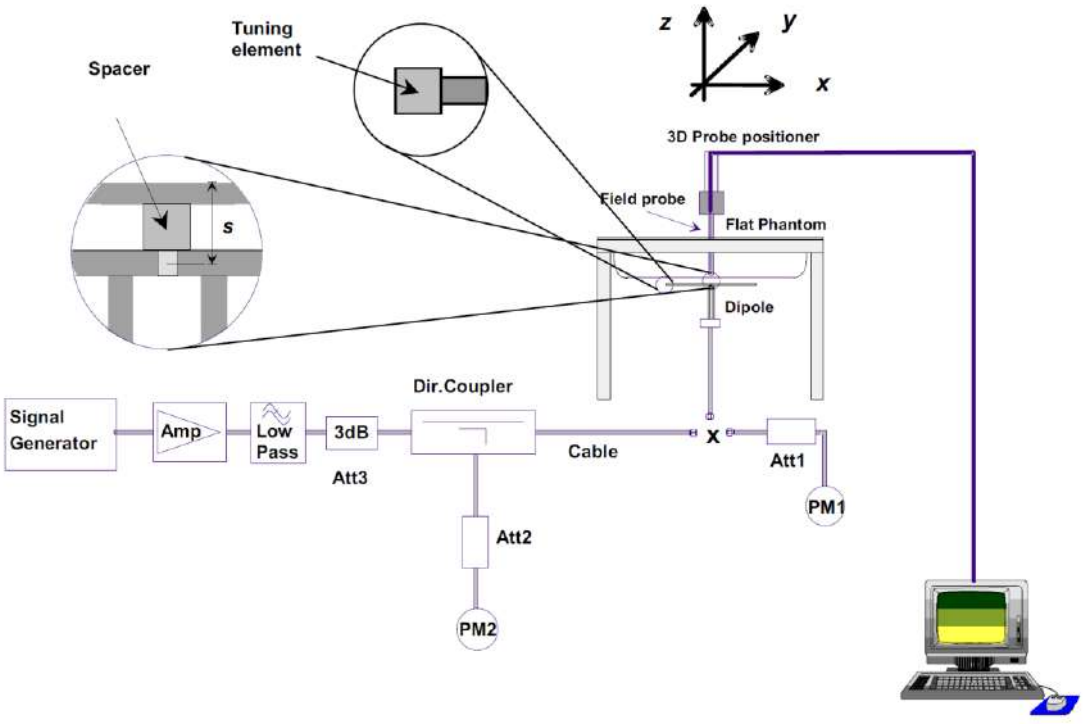
5 SYSTEM VERIFICATION

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

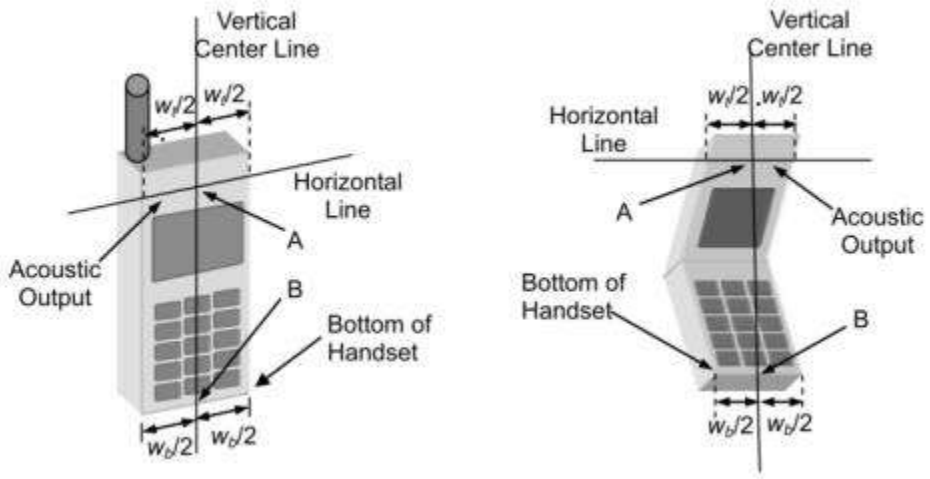
Head exposure is limited to next to the ear voice mode operations. Head SAR compliance is tested according to the test positions defined in IEEE Std 1528-2013 using the SAM phantom illustrated as below.

6.1.1 Two Imaginary Lines on the Handset

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

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

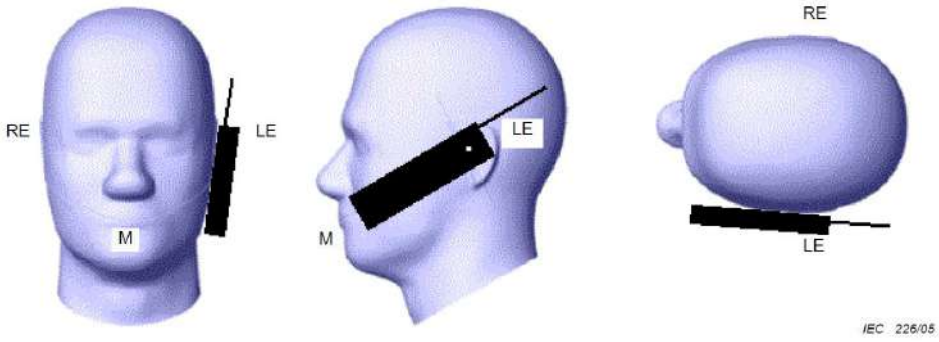
(c) The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical center line is not necessarily parallel to the front face of the handset,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



6.1.2 Cheek Position

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

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



6.1.3 Tilted Position

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

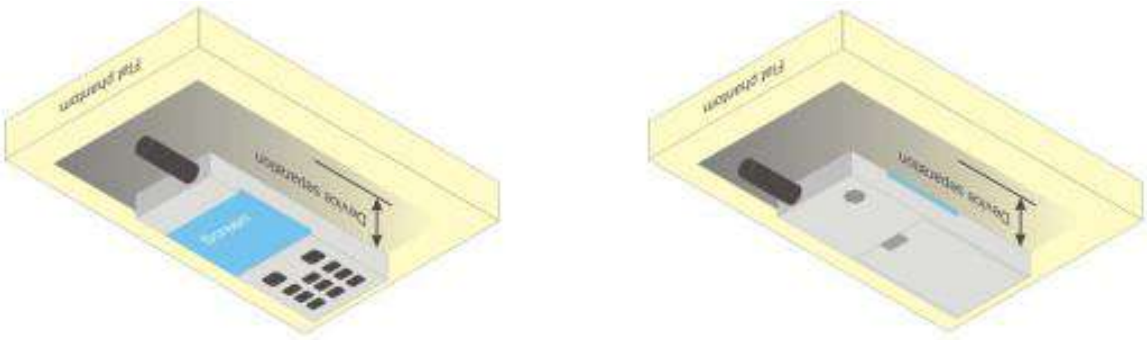
(b) While maintaining the device the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost.

6.2 Body-worn Position Conditions

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

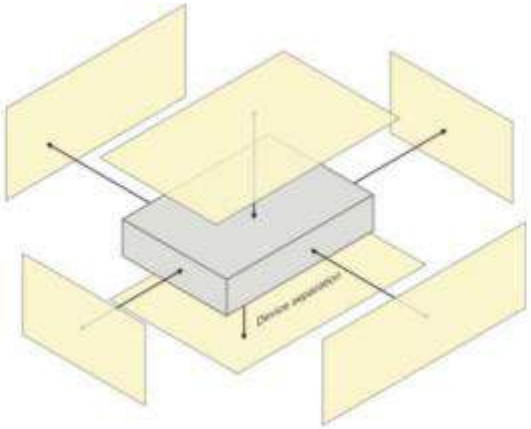
Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics.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

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



6.3 Hotspot Mode Exposure Position Conditions

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



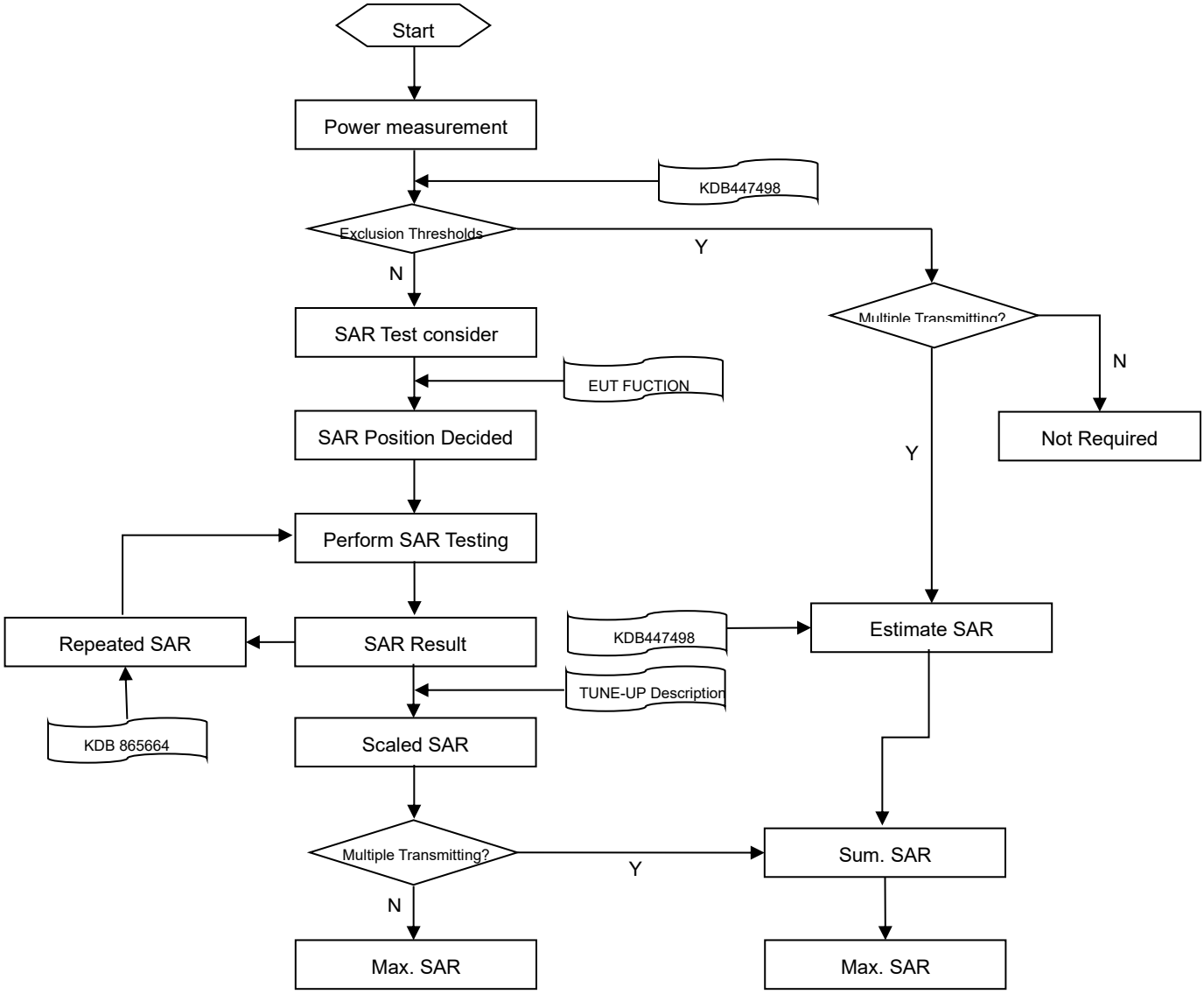
6.4 Product Specific 10g Exposure Consideration

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

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

7 MEASUREMENT PROCEDURE

7.1 Measurement Process Diagram



7.2 SAR Scan General Requirement

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

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

7.3 Measurement Procedure

The following steps are used for each test position

a. Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
b. Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
c. Measurement of the SAR distribution with a grid of 8 to 16mm * 8 to16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme.
d. Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 *32 mm is assessed by measuring 5 or 8 * 5 or 8*4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

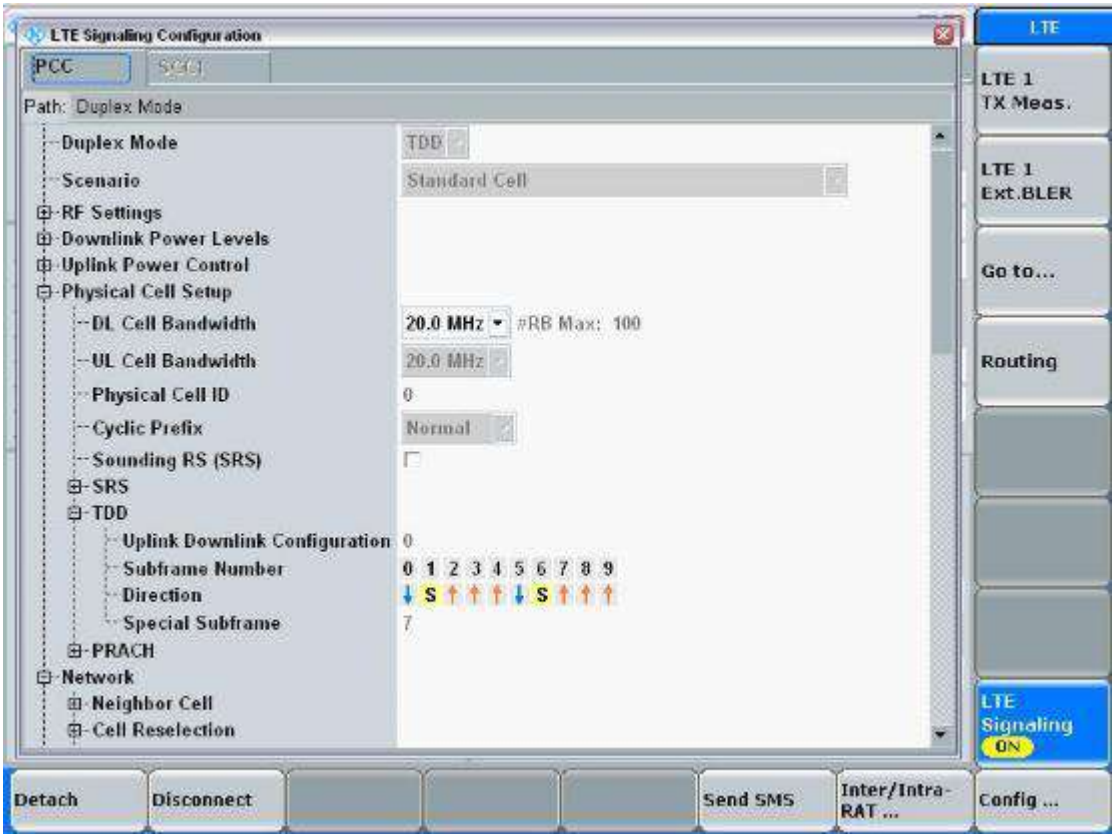
7.4 Area & Zoom Scan Procedure

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

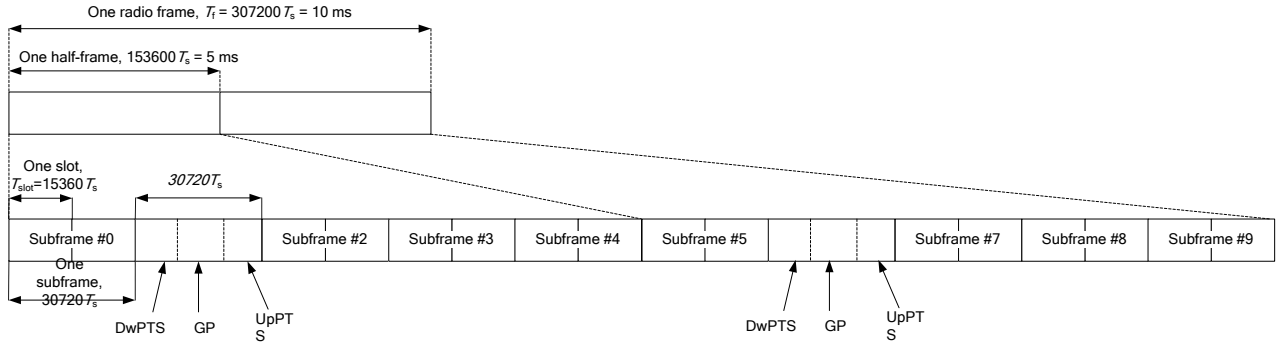
When the 1 g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.

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 (Tf=307200*TS =10ms) of two half-frames of length (153600*TS =5ms). Each half-frame consists of five sub-frames of length (30720*TS =1ms)



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*T_S =1ms.

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	$26336 \cdot T_s$			$7680 \cdot T_s$	$2560 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$20480 \cdot T_s$		
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.Ts/30720.Ts*1ms=0.167ms

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*1 ms+2*0.167 ms=6.334ms**
So, the duty cycle for TDD-LTE is: **6.334ms/10ms =1: 1.58**

8 CONDUCTED RF OUPUT POWER

8.1 GSM

Please refer the document “BL-SZ2461006-AP Power List.pdf”.

8.2 WCDMA

Please refer the document “BL-SZ2461006-AP Power List.pdf”.

8.3 LTE

Please refer the document “BL-SZ2461006-AP Power List.pdf”.

8.4 Intra-Band Uplink CA Normal Power

Note:
1. This devices supports intra-band uplink CA of 2C/5B/7C/38C/41C/66C.
2. For intra-band uplink carrier aggregation power verification and measurement is selected highest PCC and SCC bandwidth combination to do and was according to 3GPP 36.52101 sectino6.2.2A.1 and section 6.2.2A.2 test procedure.
3. For intra-band uplink CA output power was measured high / middle / low channel combination, and for SAR verification is selected highest output power combination with each exposure condition in each frequency band using the highest SAR configuration test in standalone LTE mode.

Please refer the document “BL-SZ2461006-AP Power List.pdf”.

8.5 WIFI

8.5.1 2.4G WIFI-ANT12

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	17.19	18.50	No
		6	2437	**18.11**	18.50	Yes
		11	2462	17.67	18.50	No
	802.11g	1	2412	15.98	17.00	No
		6	2437	16.34	17.00	No
		11	2462	16.14	17.00	No
	802.11n(HT20)	1	2412	15.87	17.00	No
		6	2437	16.26	17.00	No
		11	2462	15.85	17.00	No

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

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

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

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

Adjusted SAR = 0.703 * (50.12mW/70.79mW) = 0.498 W/Kg, so 2.4G OFDM SAR test is not required.

8.5.2 2.4G WIFI-ANT14

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	17.44	19.00	No
		6	2437	**17.89**	19.00	Yes
		11	2462	17.75	19.00	No
	802.11g	1	2412	16.35	17.00	No
		6	2437	16.34	17.00	No
		11	2462	15.98	17.00	No
	802.11n(HT20)	1	2412	16.39	17.00	No
		6	2437	16.06	17.00	No
		11	2462	16.12	17.00	No

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

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

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

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

Adjusted SAR = 0.369 * (50.12mW/70.43mW) = 0.263 W/Kg, so 2.4G OFDM SAR test is not required.

8.5.3 5G WIFI-ANT12

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	15.23	16.00	No
		44	5220	15.35	16.00	No
		48	5240	15.43	16.00	No
	802.11n(HT20)	36	5180	15.16	16.00	No
		44	5220	15.34	16.00	No
		48	5240	15.41	16.00	No
	802.11n(HT40)	38	5190	14.97	16.00	No
		46	5230	**15.17**	16.00	Yes
	802.11ac(VHT20)	36	5180	15.63	16.00	No
		44	5220	15.74	16.00	No
		48	5240	15.84	16.00	No
	802.11ac(VHT40)	38	5190	14.32	16.00	No
		46	5230	15.58	16.00	No
	802.11ac(VHT80)	42	5210	13.32	15.00	No
5.3 (5.25~5.35)	802.11a	52	5260	15.41	16.00	No
		60	5300	15.68	16.00	No
		64	5320	15.74	16.00	No
	802.11n(HT20)	52	5260	15.42	16.00	No
		60	5300	15.6	16.00	No
		64	5320	15.56	16.00	No
	802.11n(HT40)	54	5270	15.33	16.00	No
		62	5310	**15.47**	16.00	Yes
	802.11ac(VHT20)	52	5260	14.94	16.00	No
		60	5300	14.39	16.00	No
		64	5320	14.23	16.00	No
	802.11ac(VHT40)	54	5270	15.8	16.00	No
		62	5310	14.73	16.00	No
	802.11ac(VHT80)	58	5290	13.17	15.00	No
5.6 (5.47~5.725)	802.11a	100	5500	15.05	16.00	No
		116	5580	15.12	16.00	No
		140	5700	12.95	14.00	No
	802.11n(HT20)	100	5500	15.30	16.00	No
		116	5580	15.34	16.00	No
		140	5700	15.48	16.00	No
	802.11n(HT40)	102	5510	15.94	16.00	No
		118	5590	15.03	16.00	No

		134	5670	15.28	16.00	No
	802.11ac(VHT20)	100	5500	15.13	16.00	No
		116	5580	15.58	16.00	No
		140	5700	12.00	14.00	No
	802.11ac(VHT40)	102	5510	13.90	15.00	No
		118	5590	15.13	16.00	No
		134	5670	15.41	16.00	No
	802.11ac(VHT80)	106	5530	13.85	15.00	No
		122	5690	**14.85**	16.00	Yes
5.8 (5.725~5.850)	802.11a	149	5745	15.32	16.00	No
		157	5785	15.37	16.00	No
		165	5825	15.05	16.00	No
	802.11n(HT20)	149	5745	15.49	16.00	No
		157	5785	15.18	16.00	No
		165	5825	15.20	16.00	No
	802.11n(HT40)	151	5755	15.15	16.00	No
		159	5795	15.48	16.00	No
	802.11ac(VHT20)	149	5745	15.69	16.00	No
		157	5785	15.27	16.00	No
		165	5825	15.15	16.00	No
	802.11ac(VHT40)	151	5755	15.39	16.00	No
		159	5795	15.55	16.00	No
	802.11ac(VHT80)	155	5775	**15.25**	16.00	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.						

8.6 Bluetooth-ANT14

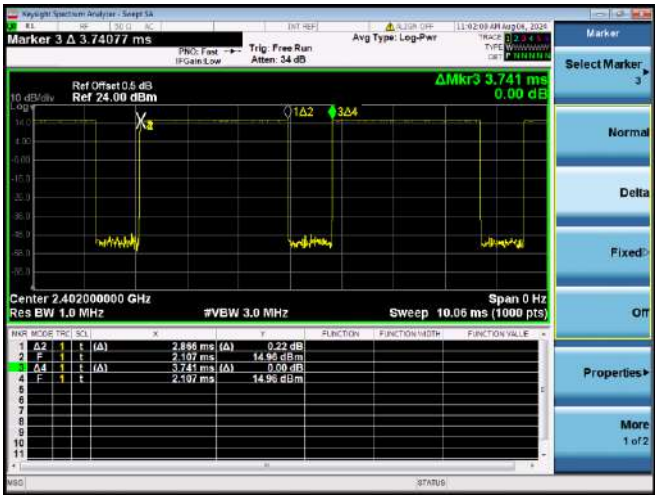
Mode	GFSK			π/4-DQPSK		
Channel	0	39	78	0	39	78
Frequency (MHz)	2402	2441	2480	2402	2441	2480
Average Power (dBm)	9.62	**12.62**	11.61	9.71	12.65	11.71
Tune-Up Limit (dBm)	11.00	14.00	12.00	11.00	14.00	12.00
SAR Test Require	NO	YES	NO	NO	NO	NO
Mode	8-DPSK			BLE-1Mbps		
Channel	0	39	78	0	19	39
Frequency (MHz)	2402	2441	2480	2402	2440	2480
Average Power (dBm)	9.84	12.70	11.81	-3.09	-2.24	-2.58
Tune-Up Limit (dBm)	11.00	14.00	12.00	-2.00	-2.00	-2.00
SAR Test Require	NO	NO	NO	NO	NO	NO
Mode	BLE-2Mbps			/	/	/
Channel	1	19	38	/	/	/
Frequency (MHz)	2404	2440	2478	/	/	/
Average Power (dBm)	-4.88	-4.03	-4.65	/	/	/
Tune-Up Limit (dBm)	-3.00	-3.00	-3.00	/	/	/
SAR Test Require	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 ≤ ¼ dB higher than the primary mode.

The Bluetooth BT DH5 duty cycle is 76.61 % as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 100%, therefore the actual duty cycle will be scaled up to 100% for Bluetooth reported SAR calculation.

Duty Cycle

GFSK



8.7 Bluetooth-ANT12

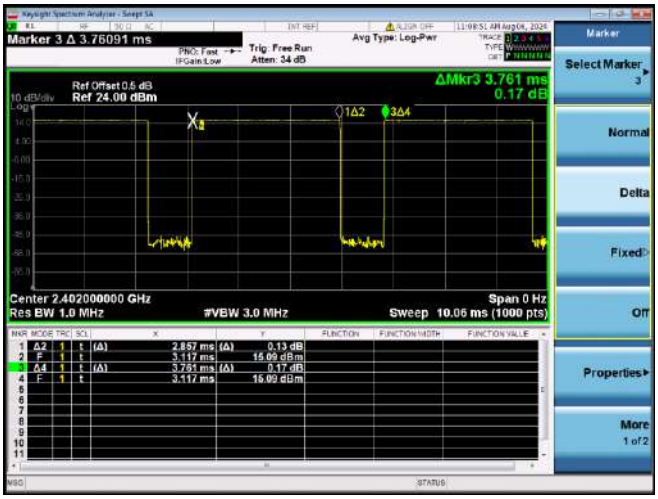
Mode	GFSK			π/4-DQPSK		
Channel	0	39	78	0	39	78
Frequency (MHz)	2402	2441	2480	2402	2441	2480
Average Power (dBm)	9.61	**12.56**	11.67	9.74	12.68	11.78
Tune-Up Limit (dBm)	11.00	14.00	12.00	11.00	14.00	12.00
SAR Test Require	NO	YES	NO	NO	NO	NO
Mode	8-DPSK			BLE-1Mbps		
Channel	0	39	78	0	19	39
Frequency (MHz)	2402	2441	2480	2402	2440	2480
Average Power (dBm)	9.71	12.62	12.06	-3.69	-2.87	-3.19
Tune-Up Limit (dBm)	11.00	14.00	12.00	-2.00	-2.00	-2.00
SAR Test Require	NO	NO	NO	NO	NO	NO
Mode	BLE-2Mbps			/	/	/
Channel	1	19	38	/	/	/
Frequency (MHz)	2404	2440	2478	/	/	/
Average Power (dBm)	-4.83	-3.85	-4.5	/	/	/
Tune-Up Limit (dBm)	-3.00	-3.00	-3.00	/	/	/
SAR Test Require	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 ≤ ¼ dB higher than the primary mode.

The Bluetooth BT DH5 duty cycle is 75.96 % as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 100%, therefore the actual duty cycle will be scaled up to 100% for Bluetooth reported SAR calculation.

Duty Cycle

GFSK



9 TEST EXCLUSION CONSIDERATION

For antenna location and support bands please refer the document “BL-SZ2461006-AI EUT internal photo.pdf”.

Antenna	Front Side(mm)	Back Side(mm)	Left Edge(mm)	Right Edge(mm)	Top Edge(mm)	Bottom Edge(mm)
Ant.0	<25	<25	<25	<25	>25	<25
Ant.2	<25	<25	>25	<25	<25	>25
Ant.12	<25	<25	<25	>25	<25	>25
Ant.14	<25	<25	<25	>25	<25	>25
Note: 1. Per KDB 941225 D06, When the overall length and width of a device is > 9 cm *5 cm, a test separation distance of 10 mm is required for hotspot mode SAR measurements and hotspot mode SAR is measured for all edges and surfaces of the device with a transmitting antenna located within 25 mm from that surface or edge.						

10 TEST RESULT

10.1 GSM 850

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head												
ANT2	DATA 4 Slots	Left Cheek	0	190	836.6	0.14	0.467	27.11	28.00	1.227	0.573	/
ANT2	DATA 4 Slots	Left Tilt	0	190	836.6	0.13	0.443	27.11	28.00	1.227	0.544	/
ANT2	DATA 4 Slots	Right Cheek	0	190	836.6	0.06	0.620	27.11	28.00	1.227	**0.761**	1#
ANT2	DATA 4 Slots	Right Tilt	0	190	836.6	0.07	0.548	27.11	28.00	1.227	0.673	/
ANT0	DATA 4 Slots	Left Cheek	0	190	836.6	0.02	0.047	26.23	28.00	1.503	0.071	/
ANT0	DATA 4 Slots	Left Tilt	0	190	836.6	-0.12	0.028	26.23	28.00	1.503	0.042	/
ANT0	DATA 4 Slots	Right Cheek	0	190	836.6	0.01	0.061	26.23	28.00	1.503	0.092	/
ANT0	DATA 4 Slots	Right Tilt	0	190	836.6	-0.16	0.033	26.23	28.00	1.503	0.050	/
Body-worn&Hotspot												
ANT2	DATA 4 Slots	Front Side	10	190	836.6	-0.02	0.101	27.11	28.00	1.227	0.124	/
ANT2	DATA 4 Slots	Back Side	10	190	836.6	0.01	0.110	27.11	28.00	1.227	**0.135**	2#
ANT2	DATA 4 Slots	Right Edge	10	190	836.6	0.17	0.043	27.11	28.00	1.227	0.053	/
ANT2	DATA 4 Slots	Top Edge	10	190	836.6	0.06	0.095	27.11	28.00	1.227	0.117	/
ANT0	DATA 4 Slots	Front Side	10	190	836.6	-0.07	0.052	26.23	28.00	1.503	0.078	/
ANT0	DATA 4 Slots	Back Side	10	190	836.6	-0.02	0.084	26.23	28.00	1.503	0.126	/
ANT0	DATA 4 Slots	Left Edge	10	190	836.6	0.06	0.072	26.23	28.00	1.503	0.108	/
ANT0	DATA 4 Slots	Right Edge	10	190	836.6	0.03	0.021	26.23	28.00	1.503	0.032	/
ANT0	DATA 4 Slots	Bottom Edge	10	190	836.6	-0.18	0.053	26.23	28.00	1.503	0.080	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.												

10.2 GSM 1900

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head												
ANT2	DATA 3 Slots	Left Cheek	0	661	1880.0	-0.07	0.240	21.47	22.00	1.130	0.271	/
ANT2	DATA 3 Slots	Left Tilt	0	661	1880.0	0.10	0.311	21.47	22.00	1.130	0.351	/
ANT2	DATA 3 Slots	Right Cheek	0	661	1880.0	0.00	0.460	21.47	22.00	1.130	0.520	/
ANT2	DATA 3 Slots	Right Tilt	0	661	1880.0	-0.06	0.568	21.47	22.00	1.130	**0.642**	3#
ANT0	DATA 3 Slots	Left Cheek	0	661	1880.0	0.19	0.025	21.09	22.00	1.233	0.031	/
ANT0	DATA 3 Slots	Left Tilt	0	661	1880.0	-0.06	0.018	21.09	22.00	1.233	0.022	/
ANT0	DATA 3 Slots	Right Cheek	0	661	1880.0	0.16	0.028	21.09	22.00	1.233	0.035	/
ANT0	DATA 3 Slots	Right Tilt	0	661	1880.0	0.00	0.016	21.09	22.00	1.233	0.020	/
Body-worn&Hotspot												
ANT2	DATA 3 Slots	Front Side	10	661	1880.0	0.09	0.141	21.47	22.00	1.130	0.159	/
ANT2	DATA 3 Slots	Back Side	10	661	1880.0	-0.14	0.277	21.47	22.00	1.130	0.313	/
ANT2	DATA 3 Slots	Right Edge	10	661	1880.0	-0.09	0.046	21.47	22.00	1.130	0.052	/
ANT2	DATA 3 Slots	Top Edge	10	661	1880.0	-0.09	0.375	21.47	22.00	1.130	**0.424**	4#
ANT0	DATA 3 Slots	Front Side	10	661	1880.0	0.02	0.090	21.09	22.00	1.233	0.111	/
ANT0	DATA 3 Slots	Back Side	10	661	1880.0	-0.04	0.181	21.09	22.00	1.233	0.223	/
ANT0	DATA 3 Slots	Left Edge	10	661	1880.0	-0.03	0.011	21.09	22.00	1.233	0.014	/
ANT0	DATA 3 Slots	Right Edge	10	661	1880.0	-0.15	0.061	21.09	22.00	1.233	0.075	/
ANT0	DATA 3 Slots	Bottom Edge	10	661	1880.0	-0.07	0.066	21.09	22.00	1.233	0.081	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.												

10.3WCDMA Band 2

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head												
ANT2	RMC	Left Cheek	0	9400	1880.0	0.11	0.167	15.39	16.00	1.151	0.192	/
ANT2	RMC	Left Tilt	0	9400	1880.0	-0.03	0.215	15.39	16.00	1.151	0.247	/
ANT2	RMC	Right Cheek	0	9400	1880.0	0.04	0.309	15.39	16.00	1.151	0.356	/
ANT2	RMC	Right Tilt	0	9400	1880.0	-0.01	0.372	15.39	16.00	1.151	**0.428**	5#
ANT0	RMC	Left Cheek	0	9400	1880.0	0.17	0.021	14.76	16.00	1.330	0.028	/
ANT0	RMC	Left Tilt	0	9400	1880.0	-0.17	0.018	14.76	16.00	1.330	0.024	/
ANT0	RMC	Right Cheek	0	9400	1880.0	-0.04	0.020	14.76	16.00	1.330	0.027	/
ANT0	RMC	Right Tilt	0	9400	1880.0	0.07	0.013	14.76	16.00	1.330	0.017	/
Body-worn&Hotspot												
ANT2	RMC	Front Side	10	9400	1880.0	0.10	0.072	15.39	16.00	1.151	0.083	/
ANT2	RMC	Back Side	10	9400	1880.0	-0.16	0.127	15.39	16.00	1.151	0.146	/
ANT2	RMC	Right Edge	10	9400	1880.0	0.06	0.023	15.39	16.00	1.151	0.026	/
ANT2	RMC	Top Edge	10	9400	1880.0	0.00	0.187	15.39	16.00	1.151	**0.215**	6#
ANT0	RMC	Front Side	10	9400	1880.0	-0.10	0.042	14.76	16.00	1.330	0.056	/
ANT0	RMC	Back Side	10	9400	1880.0	0.07	0.088	14.76	16.00	1.330	0.117	/
ANT0	RMC	Left Edge	10	9400	1880.0	0.00	0.022	14.76	16.00	1.330	0.029	/
ANT0	RMC	Right Edge	10	9400	1880.0	-0.19	0.018	14.76	16.00	1.330	0.024	/
ANT0	RMC	Bottom Edge	10	9400	1880.0	-0.17	0.099	14.76	16.00	1.330	0.132	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.												

10.4WCDMA Band 4

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head												
ANT2	RMC	Left Cheek	0	1312	1712.4	-0.14	0.271	15.28	16.00	1.180	0.320	/
ANT2	RMC	Left Tilt	0	1312	1712.4	0.06	0.333	15.28	16.00	1.180	0.393	/
ANT2	RMC	Right Cheek	0	1312	1712.4	0.07	0.521	15.28	16.00	1.180	0.615	/
ANT2	RMC	Right Tilt	0	1312	1712.4	0.01	0.562	15.28	16.00	1.180	**0.663**	7#
ANT0	RMC	Left Cheek	0	1312	1712.4	-0.19	0.010	14.97	16.00	1.268	0.013	/
ANT0	RMC	Left Tilt	0	1312	1712.4	-0.12	0.009	14.97	16.00	1.268	0.011	/
ANT0	RMC	Right Cheek	0	1312	1712.4	0.09	0.014	14.97	16.00	1.268	0.018	/
ANT0	RMC	Right Tilt	0	1312	1712.4	-0.07	0.011	14.97	16.00	1.268	0.014	/
Body-worn&Hotspot												
ANT2	RMC	Front Side	10	1312	1712.4	0.02	0.128	15.28	16.00	1.180	0.151	/
ANT2	RMC	Back Side	10	1312	1712.4	-0.13	0.193	15.28	16.00	1.180	0.228	/
ANT2	RMC	Right Edge	10	1312	1712.4	0.04	0.040	15.28	16.00	1.180	0.047	/
ANT2	RMC	Top Edge	10	1312	1712.4	0.01	0.201	15.28	16.00	1.180	**0.237**	8#
ANT0	RMC	Front Side	10	1312	1712.4	0.01	0.025	14.97	16.00	1.268	0.032	/
ANT0	RMC	Back Side	10	1312	1712.4	-0.07	0.062	14.97	16.00	1.268	0.079	/
ANT0	RMC	Left Edge	10	1312	1712.4	-0.08	0.004	14.97	16.00	1.268	0.005	/
ANT0	RMC	Right Edge	10	1312	1712.4	0.12	0.012	14.97	16.00	1.268	0.015	/
ANT0	RMC	Bottom Edge	10	1312	1712.4	0.07	0.070	14.97	16.00	1.268	0.089	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.												

10.5WCDMA Band 5

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head												
ANT2	RMC	Left Cheek	0	4233	846.6	-0.05	0.439	21.45	22.00	1.135	0.498	/
ANT2	RMC	Left Tilt	0	4233	846.6	0.18	0.396	21.45	22.00	1.135	0.449	/
ANT2	RMC	Right Cheek	0	4233	846.6	-0.06	0.582	21.45	22.00	1.135	**0.661**	9#
ANT2	RMC	Right Tilt	0	4233	846.6	0.05	0.521	21.45	22.00	1.135	0.591	/
ANT0	RMC	Left Cheek	0	4233	846.6	0.10	0.062	21.21	22.00	1.199	0.074	/
ANT0	RMC	Left Tilt	0	4233	846.6	0.01	0.051	21.21	22.00	1.199	0.061	/
ANT0	RMC	Right Cheek	0	4233	846.6	-0.07	0.073	21.21	22.00	1.199	0.088	/
ANT0	RMC	Right Tilt	0	4233	846.6	0.06	0.065	21.21	22.00	1.199	0.078	/
Body-worn&Hotspot												
ANT2	RMC	Front Side	10	4233	846.6	0.08	0.171	21.45	22.00	1.135	0.194	/
ANT2	RMC	Back Side	10	4233	846.6	0.01	0.190	21.45	22.00	1.135	**0.216**	10#
ANT2	RMC	Right Edge	10	4233	846.6	-0.09	0.077	21.45	22.00	1.135	0.087	/
ANT2	RMC	Top Edge	10	4233	846.6	0.17	0.182	21.45	22.00	1.135	0.207	/
ANT0	RMC	Front Side	10	4233	846.6	-0.09	0.113	21.21	22.00	1.199	0.136	/
ANT0	RMC	Back Side	10	4233	846.6	0.16	0.161	21.21	22.00	1.199	0.193	/
ANT0	RMC	Left Edge	10	4233	846.6	-0.06	0.101	21.21	22.00	1.199	0.121	/
ANT0	RMC	Right Edge	10	4233	846.6	-0.16	0.062	21.21	22.00	1.199	0.074	/
ANT0	RMC	Bottom Edge	10	4233	846.6	0.13	0.154	21.21	22.00	1.199	0.185	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.												

10.6 LTE Band 7 (20MHz Bandwidth)

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head														
ANT2	QPSK	Left Cheek	0	21350	2560	1	MID	0.15	0.112	15.03	16.00	1.250	0.140	/
ANT2	QPSK	Left Cheek	0	21350	2560	50	MID	-0.14	0.091	14.04	15.00	1.247	0.114	/
ANT2	QPSK	Left Tilt	0	21350	2560	1	MID	0.18	0.154	15.03	16.00	1.250	0.193	/
ANT2	QPSK	Left Tilt	0	21350	2560	50	MID	0.19	0.123	14.04	15.00	1.247	0.153	/
ANT2	QPSK	Right Cheek	0	21350	2560	1	MID	0.03	0.355	15.03	16.00	1.250	0.444	/
ANT2	QPSK	Right Cheek	0	21350	2560	50	MID	0.18	0.292	14.04	15.00	1.247	0.364	/
ANT2	QPSK	Right Tilt	0	21350	2560	1	MID	0.00	0.388	15.03	16.00	1.250	**0.485**	11#
ANT2	QPSK	Right Tilt	0	21350	2560	50	MID	0.16	0.321	14.04	15.00	1.247	0.400	/
ANT0	QPSK	Left Cheek	0	20850	2510	1	MID	-0.04	0.024	13.95	15.00	1.274	0.031	/
ANT0	QPSK	Left Cheek	0	20850	2510	50	MID	0.08	0.020	12.92	14.00	1.282	0.026	/
ANT0	QPSK	Left Tilt	0	20850	2510	1	MID	-0.13	0.014	13.95	15.00	1.274	0.018	/
ANT0	QPSK	Left Tilt	0	20850	2510	50	MID	-0.01	0.011	12.92	14.00	1.282	0.014	/
ANT0	QPSK	Right Cheek	0	20850	2510	1	MID	0.01	0.014	13.95	15.00	1.274	0.018	/
ANT0	QPSK	Right Cheek	0	20850	2510	50	MID	-0.16	0.011	12.92	14.00	1.282	0.014	/
ANT0	QPSK	Right Tilt	0	20850	2510	1	MID	0.19	0.011	13.95	15.00	1.274	0.014	/
ANT0	QPSK	Right Tilt	0	20850	2510	50	MID	-0.14	0.009	12.92	14.00	1.282	0.012	/
Body-worn&Hotspot														
ANT2	QPSK	Front Side	10	21350	2560	1	MID	-0.10	0.074	15.03	16.00	1.250	0.093	/
ANT2	QPSK	Front Side	10	21350	2560	50	MID	0.01	0.073	14.04	15.00	1.247	0.091	/
ANT2	QPSK	Back Side	10	21350	2560	1	MID	0.13	0.155	15.03	16.00	1.250	0.194	/
ANT2	QPSK	Back Side	10	21350	2560	50	MID	0.17	0.148	14.04	15.00	1.247	0.185	/
ANT2	QPSK	Right Edge	10	21350	2560	1	MID	0.17	0.009	15.03	16.00	1.250	0.011	/
ANT2	QPSK	Right Edge	10	21350	2560	50	MID	0.05	0.006	14.04	15.00	1.247	0.007	/
ANT2	QPSK	Top Edge	10	21350	2560	1	MID	-0.02	0.168	15.03	16.00	1.250	**0.210**	12#
ANT2	QPSK	Top Edge	10	21350	2560	50	MID	0.03	0.145	14.04	15.00	1.247	0.181	/
ANT0	QPSK	Front Side	10	20850	2510	1	MID	-0.04	0.032	13.95	15.00	1.274	0.041	/
ANT0	QPSK	Front Side	10	20850	2510	50	MID	0.07	0.029	12.92	14.00	1.282	0.037	/
ANT0	QPSK	Back Side	10	20850	2510	1	MID	-0.10	0.038	13.95	15.00	1.274	0.048	/
ANT0	QPSK	Back Side	10	20850	2510	50	MID	0.14	0.034	12.92	14.00	1.282	0.044	/
ANT0	QPSK	Left Edge	10	20850	2510	1	MID	0.07	0.009	13.95	15.00	1.274	0.011	/
ANT0	QPSK	Left Edge	10	20850	2510	50	MID	0.04	0.007	12.92	14.00	1.282	0.009	/
ANT0	QPSK	Right Edge	10	20850	2510	1	MID	-0.07	0.026	13.95	15.00	1.274	0.033	/
ANT0	QPSK	Right Edge	10	20850	2510	50	MID	0.08	0.021	12.92	14.00	1.282	0.027	/
ANT0	QPSK	Bottom Edge	10	20850	2510	1	MID	0.10	0.052	13.95	15.00	1.274	0.066	/
ANT0	QPSK	Bottom Edge	10	20850	2510	50	MID	-0.05	0.046	12.92	14.00	1.282	0.059	/

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

10.7 LTE Band 7 Worse case for CA Test

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head-CA														
ANT2	QPSK	Right Tilt	0	21350+ 21152	2680+ 2540.2	1+1	High +Low	-0.02	0.376	14.96	16.00	1.271	0.478	/
Body-worn&Hotspot-CA														
ANT2	QPSK	Top Edge	0	21350+ 21152	2680+ 2540.2	1+1	High +Low	-0.12	0.144	14.96	16.00	1.271	0.183	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

10.8 LTE Band 12 (10MHz Bandwidth)

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head														
Ant.2	QPSK	Left Cheek	0	23095	707.5	1	MID	-0.18	0.238	23.23	24.50	1.340	0.319	/
Ant.2	QPSK	Left Cheek	0	23095	707.5	25	MID	0.07	0.189	22.32	23.50	1.312	0.248	/
Ant.2	QPSK	Left Tilt	0	23095	707.5	1	MID	-0.12	0.218	23.23	24.50	1.340	0.292	/
Ant.2	QPSK	Left Tilt	0	23095	707.5	25	MID	-0.05	0.175	22.32	23.50	1.312	0.230	/
Ant.2	QPSK	Right Cheek	0	23095	707.5	1	MID	0.00	0.341	23.23	24.50	1.340	**0.457**	13#
Ant.2	QPSK	Right Cheek	0	23095	707.5	25	MID	-0.18	0.307	22.32	23.50	1.312	0.403	/
Ant.2	QPSK	Right Tilt	0	23095	707.5	1	MID	0.10	0.321	23.23	24.50	1.340	0.430	/
Ant.2	QPSK	Right Tilt	0	23095	707.5	25	MID	-0.04	0.275	22.32	23.50	1.312	0.361	/
Ant.0	QPSK	Left Cheek	0	23095	707.5	1	MID	-0.04	0.063	22.58	24.00	1.387	0.087	/
Ant.0	QPSK	Left Cheek	0	23095	707.5	25	MID	-0.05	0.051	21.61	23.00	1.377	0.070	/
Ant.0	QPSK	Left Tilt	0	23095	707.5	1	MID	0.04	0.023	22.58	24.00	1.387	0.032	/
Ant.0	QPSK	Left Tilt	0	23095	707.5	25	MID	0.07	0.014	21.61	23.00	1.377	0.019	/
Ant.0	QPSK	Right Cheek	0	23095	707.5	1	MID	0.02	0.070	22.58	24.00	1.387	0.097	/
Ant.0	QPSK	Right Cheek	0	23095	707.5	25	MID	-0.10	0.060	21.61	23.00	1.377	0.083	/
Ant.0	QPSK	Right Tilt	0	23095	707.5	1	MID	-0.14	0.027	22.58	24.00	1.387	0.037	/
Ant.0	QPSK	Right Tilt	0	23095	707.5	25	MID	-0.15	0.018	21.61	23.00	1.377	0.025	/
Body-worn&Hotspot														
ANT2	QPSK	Front Side	10	23095	707.5	1	MID	-0.06	0.071	23.23	24.50	1.340	0.095	/
ANT2	QPSK	Front Side	10	23095	707.5	25	MID	-0.05	0.055	22.32	23.50	1.312	0.072	/
ANT2	QPSK	Back Side	10	23095	707.5	1	MID	0.15	0.095	23.23	24.50	1.340	0.127	/
ANT2	QPSK	Back Side	10	23095	707.5	25	MID	0.16	0.072	22.32	23.50	1.312	0.094	/
ANT2	QPSK	Right Edge	10	23095	707.5	1	MID	-0.18	0.075	23.23	24.50	1.340	0.100	/
ANT2	QPSK	Right Edge	10	23095	707.5	25	MID	-0.16	0.051	22.32	23.50	1.312	0.067	/
ANT2	QPSK	Top Edge	10	23095	707.5	1	MID	-0.02	0.075	23.23	24.50	1.340	0.100	/
ANT2	QPSK	Top Edge	10	23095	707.5	25	MID	0.18	0.054	22.32	23.50	1.312	0.071	/
ANT0	QPSK	Front Side	10	23095	707.5	1	MID	-0.15	0.080	22.58	24.00	1.387	0.111	/
ANT0	QPSK	Front Side	10	23095	707.5	25	MID	0.17	0.067	21.61	23.00	1.377	0.092	/
ANT0	QPSK	Back Side	10	23095	707.5	1	MID	0.02	0.108	22.58	24.00	1.387	**0.150**	14#
ANT0	QPSK	Back Side	10	23095	707.5	25	MID	0.18	0.093	21.61	23.00	1.377	0.128	/
ANT0	QPSK	Left Edge	10	23095	707.5	1	MID	-0.16	0.097	22.58	24.00	1.387	0.135	/
ANT0	QPSK	Left Edge	10	23095	707.5	25	MID	-0.08	0.075	21.61	23.00	1.377	0.103	/
ANT0	QPSK	Right Edge	10	23095	707.5	1	MID	-0.05	0.083	22.58	24.00	1.387	0.115	/
ANT0	QPSK	Right Edge	10	23095	707.5	25	MID	0.05	0.056	21.61	23.00	1.377	0.077	/
ANT0	QPSK	Bottom Edge	10	23095	707.5	1	MID	0.04	0.092	22.58	24.00	1.387	0.128	/
ANT0	QPSK	Bottom Edge	10	23095	707.5	25	MID	0.12	0.074	21.61	23.00	1.377	0.102	/

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

10.9 LTE Band 13 (10MHz Bandwidth)

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head														
ANT2	QPSK	Left Cheek	0	23230	782	1	LOW	-0.03	0.395	23.13	24.50	1.371	0.542	/
ANT2	QPSK	Left Cheek	0	23230	782	25	MID	0.13	0.320	22.04	23.50	1.400	0.448	/
ANT2	QPSK	Left Tilt	0	23230	782	1	LOW	0.14	0.353	23.13	24.50	1.371	0.484	/
ANT2	QPSK	Left Tilt	0	23230	782	25	MID	-0.16	0.284	22.04	23.50	1.400	0.398	/
ANT2	QPSK	Right Cheek	0	23230	782	1	LOW	0.00	0.548	23.13	24.50	1.371	**0.751**	15#
ANT2	QPSK	Right Cheek	0	23230	782	25	MID	-0.03	0.444	22.04	23.50	1.400	0.622	/
ANT2	QPSK	Right Tilt	0	23230	782	1	LOW	0.00	0.446	23.13	24.50	1.371	0.611	/
ANT2	QPSK	Right Tilt	0	23230	782	25	MID	0.03	0.362	22.04	23.50	1.400	0.507	/
Ant.0	QPSK	Left Cheek	0	23230	782	1	LOW	-0.11	0.051	22.66	24.00	1.361	0.069	/
Ant.0	QPSK	Left Cheek	0	23230	782	25	MID	0.17	0.031	21.53	23.00	1.403	0.043	/
Ant.0	QPSK	Left Tilt	0	23230	782	1	LOW	0.14	0.022	22.66	24.00	1.361	0.030	/
Ant.0	QPSK	Left Tilt	0	23230	782	25	MID	-0.17	0.013	21.53	23.00	1.403	0.018	/
Ant.0	QPSK	Right Cheek	0	23230	782	1	LOW	0.11	0.062	22.66	24.00	1.361	0.084	/
Ant.0	QPSK	Right Cheek	0	23230	782	25	MID	0.00	0.044	21.53	23.00	1.403	0.062	/
Ant.0	QPSK	Right Tilt	0	23230	782	1	LOW	0.10	0.031	22.66	24.00	1.361	0.042	/
Ant.0	QPSK	Right Tilt	0	23230	782	25	MID	-0.14	0.017	21.53	23.00	1.403	0.024	/
Body-worn&Hotspot														
ANT2	QPSK	Front Side	10	23230	782	1	LOW	-0.07	0.114	23.13	24.50	1.371	0.156	/
ANT2	QPSK	Front Side	10	23230	782	25	MID	0.18	0.085	22.04	23.50	1.400	0.119	/
ANT2	QPSK	Back Side	10	23230	782	1	LOW	-0.03	0.147	23.13	24.50	1.371	**0.202**	16#
ANT2	QPSK	Back Side	10	23230	782	25	MID	-0.14	0.108	22.04	23.50	1.400	0.151	/
ANT2	QPSK	Right Edge	10	23230	782	1	LOW	0.02	0.103	23.13	24.50	1.371	0.141	/
ANT2	QPSK	Right Edge	10	23230	782	25	MID	-0.04	0.077	22.04	23.50	1.400	0.108	/
ANT2	QPSK	Top Edge	10	23230	782	1	LOW	-0.04	0.116	23.13	24.50	1.371	0.159	/
ANT2	QPSK	Top Edge	10	23230	782	25	MID	-0.02	0.086	22.04	23.50	1.400	0.120	/
ANT0	QPSK	Front Side	10	23230	782	1	LOW	-0.07	0.055	22.66	24.00	1.361	0.075	/
ANT0	QPSK	Front Side	10	23230	782	25	MID	-0.18	0.021	21.53	23.00	1.403	0.029	/
ANT0	QPSK	Back Side	10	23230	782	1	LOW	0.15	0.103	22.66	24.00	1.361	0.140	/
ANT0	QPSK	Back Side	10	23230	782	25	MID	-0.03	0.070	21.53	23.00	1.403	0.098	/
ANT0	QPSK	Left Edge	10	23230	782	1	LOW	0.12	0.071	22.66	24.00	1.361	0.097	/
ANT0	QPSK	Left Edge	10	23230	782	25	MID	0.00	0.050	21.53	23.00	1.403	0.070	/
ANT0	QPSK	Right Edge	10	23230	782	1	LOW	-0.06	0.031	22.66	24.00	1.361	0.042	/
ANT0	QPSK	Right Edge	10	23230	782	25	MID	-0.11	0.017	21.53	23.00	1.403	0.024	/
ANT0	QPSK	Bottom Edge	10	23230	782	1	LOW	-0.01	0.084	22.66	24.00	1.361	0.114	/
ANT0	QPSK	Bottom Edge	10	23230	782	25	MID	-0.06	0.062	21.53	23.00	1.403	0.087	/

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

10.10 LTE Band 25 (20MHz Bandwidth)

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head														
Ant.2	QPSK	Left Cheek	0	26590	1905	1	MID	0.14	0.160	15.24	16.00	1.191	0.191	/
Ant.2	QPSK	Left Cheek	0	26590	1905	50	MID	0.15	0.122	14.19	15.00	1.205	0.147	/
Ant.2	QPSK	Left Tilt	0	26590	1905	1	MID	-0.11	0.208	15.24	16.00	1.191	0.248	/
Ant.2	QPSK	Left Tilt	0	26590	1905	50	MID	0.01	0.161	14.19	15.00	1.205	0.194	/
Ant.2	QPSK	Right Cheek	0	26590	1905	1	MID	-0.09	0.288	15.24	16.00	1.191	0.343	/
Ant.2	QPSK	Right Cheek	0	26590	1905	50	MID	0.12	0.222	14.19	15.00	1.205	0.268	/
Ant.2	QPSK	Right Tilt	0	26590	1905	1	MID	0.00	0.363	15.24	16.00	1.191	**0.432**	17#
Ant.2	QPSK	Right Tilt	0	26590	1905	50	MID	0.18	0.262	14.19	15.00	1.205	0.316	/
Ant.0	QPSK	Left Cheek	0	26590	1905	1	MID	-0.14	0.014	14.69	16.00	1.352	0.019	/
Ant.0	QPSK	Left Cheek	0	26590	1905	50	MID	-0.09	0.012	13.66	15.00	1.361	0.016	/
Ant.0	QPSK	Left Tilt	0	26590	1905	1	MID	-0.10	0.013	14.69	16.00	1.352	0.018	/
Ant.0	QPSK	Left Tilt	0	26590	1905	50	MID	-0.04	0.011	13.66	15.00	1.361	0.015	/
Ant.0	QPSK	Right Cheek	0	26590	1905	1	MID	0.06	0.014	14.69	16.00	1.352	0.019	/
Ant.0	QPSK	Right Cheek	0	26590	1905	50	MID	-0.13	0.013	13.66	15.00	1.361	0.018	/
Ant.0	QPSK	Right Tilt	0	26590	1905	1	MID	-0.14	0.010	14.69	16.00	1.352	0.014	/
Ant.0	QPSK	Right Tilt	0	26590	1905	50	MID	0.10	0.008	13.66	15.00	1.361	0.011	/
Body-worn&Hotspot														
Ant.2	QPSK	Front Side	10	26590	1905	1	MID	-0.16	0.064	15.24	16.00	1.191	0.076	/
Ant.2	QPSK	Front Side	10	26590	1905	50	MID	-0.01	0.050	14.19	15.00	1.205	0.060	/
Ant.2	QPSK	Back Side	10	26590	1905	1	MID	0.14	0.008	15.24	16.00	1.191	0.010	/
Ant.2	QPSK	Back Side	10	26590	1905	50	MID	-0.09	0.006	14.19	15.00	1.205	0.007	/
Ant.2	QPSK	Right Edge	10	26590	1905	1	MID	0.13	0.020	15.24	16.00	1.191	0.024	/
Ant.2	QPSK	Right Edge	10	26590	1905	50	MID	0.13	0.015	14.19	15.00	1.205	0.018	/
Ant.2	QPSK	Top Edge	10	26590	1905	1	MID	-0.02	0.167	15.24	16.00	1.191	**0.199**	18#
Ant.2	QPSK	Top Edge	10	26590	1905	50	MID	-0.16	0.130	14.19	15.00	1.205	0.157	/
Ant.0	QPSK	Front Side	10	26590	1905	1	MID	0.11	0.039	14.69	16.00	1.352	0.053	/
Ant.0	QPSK	Front Side	10	26590	1905	50	MID	-0.05	0.034	13.66	15.00	1.361	0.046	/
Ant.0	QPSK	Back Side	10	26590	1905	1	MID	-0.10	0.089	14.69	16.00	1.352	0.120	/
Ant.0	QPSK	Back Side	10	26590	1905	50	MID	0.06	0.075	13.66	15.00	1.361	0.102	/
Ant.0	QPSK	Left Edge	10	26590	1905	1	MID	0.18	0.007	14.69	16.00	1.352	0.009	/
Ant.0	QPSK	Left Edge	10	26590	1905	50	MID	0.14	0.003	13.66	15.00	1.361	0.004	/
Ant.0	QPSK	Right Edge	10	26590	1905	1	MID	0.19	0.032	14.69	16.00	1.352	0.043	/
Ant.0	QPSK	Right Edge	10	26590	1905	50	MID	-0.02	0.019	13.66	15.00	1.361	0.026	/
Ant.0	QPSK	Bottom Edge	10	26590	1905	1	MID	-0.02	0.096	14.69	16.00	1.352	0.130	/
Ant.0	QPSK	Bottom Edge	10	26590	1905	50	MID	-0.08	0.076	13.66	15.00	1.361	0.103	/

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

10.11 LTE Band 26 (15MHz Bandwidth)

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head														
Ant.2	QPSK	Left Cheek	0	26865	831.5	1	MID	0.04	0.336	20.49	21.50	1.262	0.424	/
Ant.2	QPSK	Left Cheek	0	26965	841.5	36	MID	0.13	0.271	19.41	20.50	1.285	0.348	/
Ant.2	QPSK	Left Tilt	0	26865	831.5	1	MID	-0.03	0.305	20.49	21.50	1.262	0.385	/
Ant.2	QPSK	Left Tilt	0	26965	841.5	36	MID	0.12	0.244	19.41	20.50	1.285	0.314	/
Ant.2	QPSK	Right Cheek	0	26865	831.5	1	MID	0.00	0.445	20.49	21.50	1.262	**0.562**	19#
Ant.2	QPSK	Right Cheek	0	26965	841.5	36	MID	-0.16	0.358	19.41	20.50	1.285	0.460	/
Ant.2	QPSK	Right Tilt	0	26865	831.5	1	MID	-0.17	0.376	20.49	21.50	1.262	0.475	/
Ant.2	QPSK	Right Tilt	0	26965	841.5	36	MID	0.04	0.304	19.41	20.50	1.285	0.391	/
Ant.0	QPSK	Left Cheek	0	26865	831.5	1	MID	-0.01	0.040	20.13	21.50	1.371	0.055	/
Ant.0	QPSK	Left Cheek	0	26865	831.5	36	MID	-0.14	0.034	19.07	20.50	1.390	0.047	/
Ant.0	QPSK	Left Tilt	0	26865	831.5	1	MID	-0.10	0.017	20.13	21.50	1.371	0.023	/
Ant.0	QPSK	Left Tilt	0	26865	831.5	36	MID	0.04	0.009	19.07	20.50	1.390	0.013	/
Ant.0	QPSK	Right Cheek	0	26865	831.5	1	MID	-0.06	0.044	20.13	21.50	1.371	0.060	/
Ant.0	QPSK	Right Cheek	0	26865	831.5	36	MID	0.01	0.038	19.07	20.50	1.390	0.053	/
Ant.0	QPSK	Right Tilt	0	26865	831.5	1	MID	0.17	0.029	20.13	21.50	1.371	0.040	/
Ant.0	QPSK	Right Tilt	0	26865	831.5	36	MID	-0.10	0.018	19.07	20.50	1.390	0.025	/
Body-worn&Hotspot														
Ant.2	QPSK	Front Side	10	26865	831.5	1	MID	-0.04	0.093	20.49	21.50	1.262	0.117	/
Ant.2	QPSK	Front Side	10	26965	841.5	36	MID	0.00	0.076	19.41	20.50	1.285	0.098	/
Ant.2	QPSK	Back Side	10	26865	831.5	1	MID	0.00	0.113	20.49	21.50	1.262	**0.143**	20#
Ant.2	QPSK	Back Side	10	26965	841.5	36	MID	0.19	0.097	19.41	20.50	1.285	0.125	/
Ant.2	QPSK	Right Edge	10	26865	831.5	1	MID	-0.14	0.045	20.49	21.50	1.262	0.057	/
Ant.2	QPSK	Right Edge	10	26965	841.5	36	MID	0.01	0.037	19.41	20.50	1.285	0.048	/
Ant.2	QPSK	Top Edge	10	26865	831.5	1	MID	-0.16	0.089	20.49	21.50	1.262	0.112	/
Ant.2	QPSK	Top Edge	10	26965	841.5	36	MID	-0.15	0.070	19.41	20.50	1.285	0.090	/
Ant.0	QPSK	Front Side	10	26865	831.5	1	MID	-0.15	0.044	20.13	21.50	1.371	0.060	/
Ant.0	QPSK	Front Side	10	26865	831.5	36	MID	-0.16	0.029	19.07	20.50	1.390	0.040	/
Ant.0	QPSK	Back Side	10	26865	831.5	1	MID	-0.01	0.064	20.13	21.50	1.371	0.088	/
Ant.0	QPSK	Back Side	10	26865	831.5	36	MID	0.13	0.046	19.07	20.50	1.390	0.064	/
Ant.0	QPSK	Left Edge	10	26865	831.5	1	MID	-0.12	0.043	20.13	21.50	1.371	0.059	/
Ant.0	QPSK	Left Edge	10	26865	831.5	36	MID	-0.11	0.039	19.07	20.50	1.390	0.054	/
Ant.0	QPSK	Right Edge	10	26865	831.5	1	MID	-0.18	0.030	20.13	21.50	1.371	0.041	/
Ant.0	QPSK	Right Edge	10	26865	831.5	36	MID	-0.11	0.009	19.07	20.50	1.390	0.013	/
Ant.0	QPSK	Bottom Edge	10	26865	831.5	1	MID	-0.14	0.059	20.13	21.50	1.371	0.081	/
Ant.0	QPSK	Bottom Edge	10	26865	831.5	36	MID	0.08	0.046	19.07	20.50	1.390	0.064	/

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

10.12 LTE Band 66 (20MHz Bandwidth)

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head														
Ant.2	QPSK	Left Cheek	0	132072	1720	1	MID	-0.19	0.251	15.06	16.00	1.242	0.312	/
Ant.2	QPSK	Left Cheek	0	132072	1720	50	MID	-0.02	0.199	14.02	15.00	1.253	0.249	/
Ant.2	QPSK	Left Tilt	0	132072	1720	1	MID	0.14	0.253	15.06	16.00	1.242	0.314	/
Ant.2	QPSK	Left Tilt	0	132072	1720	50	MID	0.11	0.249	14.02	15.00	1.253	0.312	/
Ant.2	QPSK	Right Cheek	0	132072	1720	1	MID	0.11	0.449	15.06	16.00	1.242	0.558	/
Ant.2	QPSK	Right Cheek	0	132072	1720	50	MID	-0.16	0.363	14.02	15.00	1.253	0.455	/
Ant.2	QPSK	Right Tilt	0	132072	1720	1	MID	0.02	0.490	15.06	16.00	1.242	**0.609**	21#
Ant.2	QPSK	Right Tilt	0	132072	1720	50	MID	-0.03	0.395	14.02	15.00	1.253	0.495	/
Ant.0	QPSK	Left Cheek	0	132072	1720	1	MID	-0.17	0.057	14.78	16.00	1.324	0.075	/
Ant.0	QPSK	Left Cheek	0	132072	1720	50	MID	-0.02	0.047	13.70	15.00	1.349	0.063	/
Ant.0	QPSK	Left Tilt	0	132072	1720	1	MID	0.11	0.048	14.78	16.00	1.324	0.064	/
Ant.0	QPSK	Left Tilt	0	132072	1720	50	MID	0.13	0.038	13.70	15.00	1.349	0.051	/
Ant.0	QPSK	Right Cheek	0	132072	1720	1	MID	0.00	0.076	14.78	16.00	1.324	0.101	/
Ant.0	QPSK	Right Cheek	0	132072	1720	50	MID	0.00	0.063	13.70	15.00	1.349	0.085	/
Ant.0	QPSK	Right Tilt	0	132072	1720	1	MID	0.03	0.062	14.78	16.00	1.324	0.082	/
Ant.0	QPSK	Right Tilt	0	132072	1720	50	MID	-0.09	0.050	13.70	15.00	1.349	0.067	/
Body-worn&Hotspot														
Ant.2	QPSK	Front Side	10	132072	1720	1	MID	0.00	0.097	15.06	16.00	1.242	0.120	/
Ant.2	QPSK	Front Side	10	132072	1720	50	LOW	0.02	0.073	14.02	15.00	1.253	0.091	/
Ant.2	QPSK	Back Side	10	132072	1720	1	MID	-0.19	0.132	15.06	16.00	1.242	0.164	/
Ant.2	QPSK	Back Side	10	132072	1720	50	LOW	-0.16	0.105	14.02	15.00	1.253	0.132	/
Ant.2	QPSK	Right Edge	10	132072	1720	1	MID	0.02	0.028	15.06	16.00	1.242	0.035	/
Ant.2	QPSK	Right Edge	10	132072	1720	50	LOW	-0.01	0.024	14.02	15.00	1.253	0.030	/
Ant.2	QPSK	Top Edge	10	132072	1720	1	MID	-0.01	0.164	15.06	16.00	1.242	**0.204**	22#
Ant.2	QPSK	Top Edge	10	132072	1720	50	LOW	0.15	0.132	14.02	15.00	1.253	0.165	/
Ant.0	QPSK	Front Side	10	132072	1720	1	MID	-0.16	0.017	14.78	16.00	1.324	0.023	/
Ant.0	QPSK	Front Side	10	132072	1720	50	MID	0.17	0.014	13.70	15.00	1.349	0.019	/
Ant.0	QPSK	Back Side	10	132072	1720	1	MID	-0.19	0.044	14.78	16.00	1.324	0.058	/
Ant.0	QPSK	Back Side	10	132072	1720	50	MID	0.11	0.035	13.70	15.00	1.349	0.047	/
Ant.0	QPSK	Left Edge	10	132072	1720	1	MID	-0.13	0.014	13.70	15.00	1.349	0.019	/
Ant.0	QPSK	Left Edge	10	132072	1720	50	LOW	-0.19	0.011	14.78	16.00	1.324	0.015	/
Ant.0	QPSK	Right Edge	10	132072	1720	1	MID	-0.02	0.010	14.78	16.00	1.324	0.013	/
Ant.0	QPSK	Right Edge	10	132072	1720	50	MID	-0.18	0.007	13.70	15.00	1.349	0.009	/
Ant.0	QPSK	Bottom Edge	10	132072	1720	1	MID	-0.10	0.058	14.78	16.00	1.324	0.077	/
Ant.0	QPSK	Bottom Edge	10	132072	1720	50	MID	-0.15	0.039	13.70	15.00	1.349	0.053	/

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

10.13 LTE Band 66 Worse case for CA Test

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head-CA														
Ant.2	QPSK	Right Tilt	0	132072+ 132270	1720+1739.8	1+1	High +Low	0.12	0.462	14.82	16.00	1.312	**0.606**	/
Body-worn&Hotspot-CA														
Ant.2	QPSK	Top Edge	10	132072+ 132270	1720+1739.8	1+1	High +Low	0.05	0.155	14.82	16.00	1.312	**0.203**	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

10.14 LTE Band 41 (20MHz Bandwidth)

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head														
ANT2	QPSK	Left Cheek	0	39750	2506	1	MID	-0.04	0.087	16.08	16.50	1.102	0.096	/
ANT2	QPSK	Left Cheek	0	41055	2636.5	50	MID	0.06	0.068	15.06	15.50	1.107	0.075	/
ANT2	QPSK	Left Tilt	0	39750	2506	1	MID	0.01	0.108	16.08	16.50	1.102	0.119	/
ANT2	QPSK	Left Tilt	0	41055	2636.5	50	MID	-0.09	0.087	15.06	15.50	1.107	0.096	/
ANT2	QPSK	Right Cheek	0	39750	2506	1	MID	-0.06	0.244	16.08	16.50	1.102	0.269	/
ANT2	QPSK	Right Cheek	0	41055	2636.5	50	MID	-0.07	0.198	15.06	15.50	1.107	0.219	/
ANT2	QPSK	Right Tilt	0	39750	2506	1	MID	-0.05	0.259	16.08	16.50	1.102	**0.285**	23#
ANT2	QPSK	Right Tilt	0	41055	2636.5	50	MID	-0.18	0.208	15.06	15.50	1.107	0.230	/
ANT0	QPSK	Left Cheek	0	39750	2506	1	MID	-0.08	0.037	15.06	16.00	1.242	0.046	/
ANT0	QPSK	Left Cheek	0	39750	2506	50	MID	0.10	0.029	13.94	15.00	1.276	0.037	/
ANT0	QPSK	Left Tilt	0	39750	2506	1	MID	0.13	0.018	15.06	16.00	1.242	0.022	/
ANT0	QPSK	Left Tilt	0	39750	2506	50	MID	0.15	0.012	13.94	15.00	1.276	0.015	/
ANT0	QPSK	Right Cheek	0	39750	2506	1	MID	-0.16	0.019	15.06	16.00	1.242	0.024	/
ANT0	QPSK	Right Cheek	0	39750	2506	50	MID	0.17	0.016	13.94	15.00	1.276	0.020	/
ANT0	QPSK	Right Tilt	0	39750	2506	1	MID	-0.19	0.018	15.06	16.00	1.242	0.022	/
ANT0	QPSK	Right Tilt	0	39750	2506	50	MID	-0.05	0.011	13.94	15.00	1.276	0.014	/
Body-worn&Hotspot														
ANT2	QPSK	Front Side	10	39750	2506	1	MID	0.14	0.059	16.08	16.50	1.102	0.065	/
ANT2	QPSK	Front Side	10	41055	2636.5	50	MID	0.01	0.047	15.06	15.50	1.107	0.052	/
ANT2	QPSK	Back Side	10	39750	2506	1	MID	-0.01	0.137	16.08	16.50	1.102	**0.151**	24#
ANT2	QPSK	Back Side	10	41055	2636.5	50	MID	0.10	0.112	15.06	15.50	1.107	0.124	/
ANT2	QPSK	Right Edge	10	39750	2506	1	MID	-0.12	0.073	16.08	16.50	1.102	0.080	/
ANT2	QPSK	Right Edge	10	41055	2636.5	50	MID	-0.11	0.060	15.06	15.50	1.107	0.066	/
ANT2	QPSK	Top Edge	10	39750	2506	1	MID	0.03	0.132	16.08	16.50	1.102	0.145	/
ANT2	QPSK	Top Edge	10	41055	2636.5	50	MID	0.04	0.123	15.06	15.50	1.107	0.136	/
ANT0	QPSK	Front Side	10	39750	2506	1	MID	0.13	0.026	15.06	16.00	1.242	0.032	/
ANT0	QPSK	Front Side	10	39750	2506	50	MID	-0.02	0.020	13.94	15.00	1.276	0.026	/
ANT0	QPSK	Back Side	10	39750	2506	1	MID	0.05	0.032	15.06	16.00	1.242	0.040	/
ANT0	QPSK	Back Side	10	39750	2506	50	MID	-0.03	0.025	13.94	15.00	1.276	0.032	/
ANT0	QPSK	Left Edge	10	39750	2506	1	MID	0.12	0.016	15.06	16.00	1.242	0.020	/
ANT0	QPSK	Left Edge	10	39750	2506	50	MID	0.12	0.009	13.94	15.00	1.276	0.011	/
ANT0	QPSK	Right Edge	10	39750	2506	1	MID	0.15	0.022	15.06	16.00	1.242	0.027	/
ANT0	QPSK	Right Edge	10	39750	2506	50	MID	-0.19	0.021	13.94	15.00	1.276	0.027	/
ANT0	QPSK	Bottom Edge	10	39750	2506	1	MID	0.06	0.042	15.06	16.00	1.242	0.052	/
ANT0	QPSK	Bottom Edge	10	39750	2506	50	MID	0.02	0.026	13.94	15.00	1.276	0.033	/

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

10.15 LTE Band 41 Worse case for CA Test

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Tune -up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head-CA														
ANT2	QPSK	Right Tilt	0	39750+ 39948	2506+ 2525.8	1+1	HIGH+ LOW	-0.05	0.248	15.96	16.50	1.132	**0.281**	/
Body-worn&Hotspot-CA														
ANT2	QPSK	Back Side	0	39750+ 39948	2506+ 2525.8	1+1	HIGH+ LOW	-0.12	0.131	15.96	16.50	1.132	**0.148**	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

10.16 WIFI 2.4GHz

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	Duty Cycle (%)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head														
Ant.12	802.11 b	Left Cheek	0	6	2437	0.01	0.634	18.11	18.50	1.094	98.60	1.014	**0.703**	25#
	802.11 b	Left Tilt	0	6	2437	0.02	0.402	18.11	18.50	1.094	98.60	1.014	0.446	/
	802.11 b	Right Cheek	0	6	2437	0.05	0.270	18.11	18.50	1.094	98.60	1.014	0.300	/
	802.11 b	Right Tilt	0	6	2437	-0.01	0.275	18.11	18.50	1.094	98.60	1.014	0.305	/
Ant.14	802.11 b	Left Cheek	0	6	2437	0.09	0.282	17.89	19.00	1.291	98.60	1.014	0.369	/
	802.11 b	Left Tilt	0	6	2437	0.18	0.124	17.89	19.00	1.291	98.60	1.014	0.162	/
	802.11 b	Right Cheek	0	6	2437	-0.13	0.087	17.89	19.00	1.291	98.60	1.014	0.114	/
	802.11 b	Right Tilt	0	6	2437	-0.08	0.048	17.89	19.00	1.291	98.60	1.014	0.063	/
Body-worn&Hotspot														
Ant.12	802.11 b	Front Side	10	6	2437	-0.02	0.102	18.11	18.50	1.094	98.60	1.014	0.113	/
	802.11 b	Back Side	10	6	2437	-0.01	0.259	18.11	18.50	1.094	98.60	1.014	**0.287**	26#
	802.11 b	Left Edge	10	6	2437	0.05	0.065	18.11	18.50	1.094	98.60	1.014	0.072	/
	802.11 b	Top Edge	10	6	2437	0.00	0.137	18.11	18.50	1.094	98.60	1.014	0.152	/
Ant.14	802.11 b	Front Side	10	6	2437	0.13	0.062	17.89	19.00	1.291	98.60	1.014	0.081	/
	802.11 b	Back Side	10	6	2437	0.07	0.141	17.89	19.00	1.291	98.60	1.014	0.185	/
	802.11 b	Left Edge	10	6	2437	0.05	0.098	17.89	19.00	1.291	98.60	1.014	0.128	/
	802.11 b	Top Edge	10	6	2437	-0.13	0.026	17.89	19.00	1.291	98.60	1.014	0.034	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

10.17 WIFI 5GHz

Antenna	Band	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	Duty Cycle (%)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.12	5.3G	802.11 n40	Left Cheek	0	62	5310	-0.12	0.282	15.47	16.00	1.130	93.20	1.073	0.342	/
	5.3G	802.11 n40	Left Tilt	0	62	5310	-0.09	0.645	15.47	16.00	1.130	93.20	1.073	**0.782**	27#
	5.3G	802.11 n40	Right Cheek	0	62	5310	0.03	0.175	15.47	16.00	1.130	93.20	1.073	0.212	/
	5.3G	802.11 n40	Right Tilt	0	62	5310	-0.11	0.236	15.47	16.00	1.130	93.20	1.073	0.286	/
Ant.12	5.6G	802.11 ac80	Left Cheek	0	122	5610	-0.04	0.459	14.85	16.00	1.303	92.50	1.081	**0.647**	28#
	5.6G	802.11 ac80	Left Tilt	0	122	5610	-0.05	0.332	14.85	16.00	1.303	92.50	1.081	0.468	/
	5.6G	802.11 ac80	Right Cheek	0	122	5610	0.03	0.195	14.85	16.00	1.303	92.50	1.081	0.275	/
	5.6G	802.11 ac80	Right Tilt	0	122	5610	-0.02	0.248	14.85	16.00	1.303	92.50	1.081	0.349	/
Ant.12	5.8G	802.11 ac80	Left Cheek	0	155	5775	-0.08	0.506	15.25	16.00	1.189	92.50	1.081	**0.650**	29#
	5.8G	802.11 ac80	Left Tilt	0	155	5775	0.09	0.471	15.25	16.00	1.189	92.50	1.081	0.605	/
	5.8G	802.11 ac80	Right Cheek	0	155	5775	-0.06	0.320	15.25	16.00	1.189	92.50	1.081	0.411	/
	5.8G	802.11 ac80	Right Tilt	0	155	5775	0.08	0.360	15.25	16.00	1.189	92.50	1.081	0.463	/
Body-worn															
Ant.12	5.3G	802.11 n40	Front Side	10	62	5310	0.02	0.088	15.47	16.00	1.130	93.20	1.073	0.107	/
	5.3G	802.11 n40	Back Side	10	62	5310	0.00	0.397	15.47	16.00	1.130	93.20	1.073	**0.481**	30#
Ant.12	5.6G	802.11 ac80	Front Side	10	122	5610	0.11	0.081	14.85	16.00	1.303	92.50	1.081	0.114	/
	5.6G	802.11 ac80	Back Side	10	122	5610	0.08	0.353	14.85	16.00	1.303	92.50	1.081	**0.497**	31#
Ant.12	5.8G	802.11 ac80	Front Side	10	155	5775	-0.13	0.099	15.25	16.00	1.189	92.50	1.081	0.127	/
	5.8G	802.11 ac80	Back Side	10	155	5775	-0.02	0.403	15.25	16.00	1.189	92.50	1.081	**0.518**	33#
Hotspot															
Ant.12	5.2G	802.11 n40	Front Side	10	46	5230	0.12	0.102	15.17	16.00	1.211	93.20	1.073	0.133	/
	5.2G	802.11 n40	Back Side	10	46	5230	0.01	0.491	15.17	16.00	1.211	93.20	1.073	**0.638**	32#
	5.2G	802.11 n40	Left Edge	10	46	5230	0.06	0.123	15.17	16.00	1.211	93.20	1.073	0.160	/
	5.2G	802.11 n40	Top Edge	10	46	5230	-0.02	0.264	15.17	16.00	1.211	93.20	1.073	0.343	/
Ant.12	5.8G	802.11 ac80	Front Side	10	155	5775	-0.13	0.099	15.25	16.00	1.189	92.50	1.081	0.127	/
	5.8G	802.11 ac80	Back Side	10	155	5775	-0.02	0.403	15.25	16.00	1.189	92.50	1.081	**0.518**	33#
	5.8G	802.11 ac80	Left Edge	10	155	5775	0.06	0.340	15.25	16.00	1.189	92.50	1.081	0.437	/
	5.8G	802.11 ac80	Top Edge	10	155	5775	0.03	0.289	15.25	16.00	1.189	92.50	1.081	0.371	/

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

Antenna	Band	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	Duty Cycle (%)	Scaling Factor	10 g Scaled SAR (W/kg)	Meas. No.
Specific															
Ant.12	5.3G	802.11 n40	Front Side	0	62	5310	0.00	0.240	15.47	16.00	1.130	93.20	1.073	0.291	/
	5.3G	802.11 n40	Back Side	0	62	5310	0.06	0.324	15.47	16.00	1.130	93.20	1.073	0.393	/
	5.3G	802.11 n40	Left Edge	0	62	5310	-0.05	0.284	15.47	16.00	1.130	93.20	1.073	0.344	/
	5.3G	802.11 n40	Top Edge	0	62	5310	0.01	0.667	15.47	16.00	1.130	93.20	1.073	**0.809**	34#
Ant.12	5.6G	802.11 ac80	Front Side	0	122	5610	0.06	0.347	14.85	16.00	1.303	92.50	1.081	0.489	/
	5.6G	802.11 ac80	Back Side	0	122	5610	0.07	0.368	14.85	16.00	1.303	92.50	1.081	0.518	/
	5.6G	802.11 ac80	Left Edge	0	122	5610	-0.02	0.635	14.85	16.00	1.303	92.50	1.081	0.894	/
	5.6G	802.11 ac80	Top Edge	0	122	5610	0.03	0.836	14.85	16.00	1.303	92.50	1.081	**1.178**	35#
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.18 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.12	DH5	Left Cheek	0	39	2441	-0.07	0.122	12.56	14.00	1.394	75.96	1.316	**0.224**	36#
Ant.12	DH5	Left Tilt	0	39	2441	0.02	0.087	12.56	14.00	1.394	75.96	1.316	0.160	/
Ant.12	DH5	Right Cheek	0	39	2441	0.03	0.049	12.56	14.00	1.394	75.96	1.316	0.090	/
Ant.12	DH5	Right Tilt	0	39	2441	0.05	0.052	12.56	14.00	1.394	75.96	1.316	0.095	/
Ant.14	DH5	Left Cheek	0	39	2441	0.03	0.057	12.62	14.00	1.375	76.61	1.305	0.102	/
Ant.14	DH5	Left Tilt	0	39	2441	0.05	0.025	12.62	14.00	1.375	76.61	1.305	0.045	/
Ant.14	DH5	Right Cheek	0	39	2441	0.02	0.023	12.62	14.00	1.375	76.61	1.305	0.041	/
Ant.14	DH5	Right Tilt	0	39	2441	0.07	0.016	12.62	14.00	1.375	76.61	1.305	0.029	/
Body-worn&Hotspot														
Ant.12	DH5	Front Side	10	39	2441	0.04	0.023	12.56	14.00	1.394	75.96	1.316	0.042	/
Ant.12	DH5	Back Side	10	39	2441	-0.04	0.041	12.56	14.00	1.394	75.96	1.316	**0.075**	37#
Ant.12	DH5	Left Edge	10	39	2441	0.03	0.012	12.56	14.00	1.394	75.96	1.316	0.022	/
Ant.12	DH5	Top Edge	10	39	2441	0.09	0.030	12.56	14.00	1.394	75.96	1.316	0.055	/
Ant.14	DH5	Front Side	10	39	2441	-0.16	0.008	12.62	14.00	1.375	76.61	1.305	0.014	/
Ant.14	DH5	Back Side	10	39	2441	-0.08	0.028	12.62	14.00	1.375	76.61	1.305	0.050	/
Ant.14	DH5	Left Edge	10	39	2441	0.06	0.019	12.62	14.00	1.375	76.61	1.305	0.034	/
Ant.14	DH5	Top Edge	10	39	2441	0.04	0.006	12.62	14.00	1.375	76.61	1.305	0.011	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

10.19 NFC SAR

1. According to the 2022.04 TCBC Workshop meeting, the power threshold is ≤ 100MHz, refer to P6s.

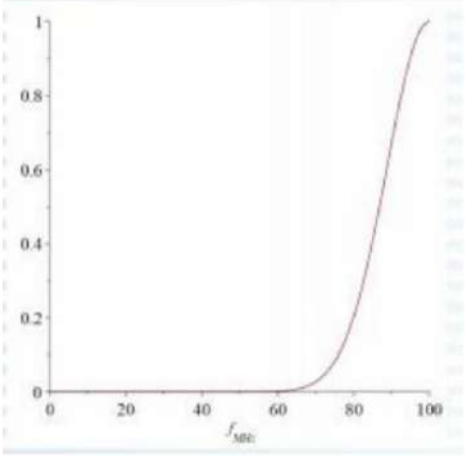
$$P_{7X}(d_{mm}, f_{MHz}) := \begin{cases} P_{6S}(d_{mm}, f_{MHz}) & f_{MHz} \le 100 \\ P_{6to7}(d_{mm}, f_{MHz}) & 100 < f_{MHz} \le 300 \\ P_{7}(d_{mm}, f_{MHz}) & 300 < f_{MHz} \end{cases}$$

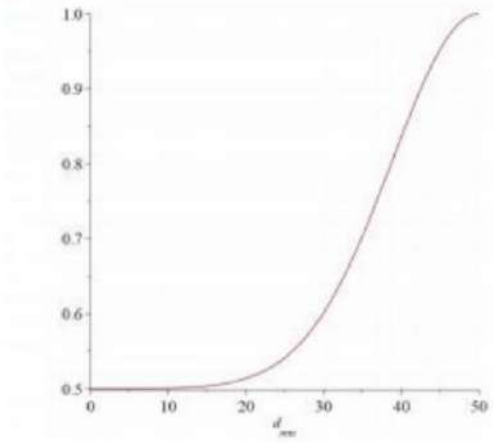
2. For portable products, when using a distance of ≤ 50mm, such as mobile phone NFC, P6s is calculated with the following formula calculate.

$$S_f(f_{MHz}) \cdot P_{431a}(d_{mm}, f_{MHz}) + (1 - S_f(f_{MHz})) \cdot S_d(d_{mm}) P_{431b}(50., 100.) \cdot \left(1. + log10\left(\frac{100.}{f_{MHz}}\right)\right) \qquad d_{mm} \le 50 \text{ and } f_{MHz} \le 100$$

3. The smoothing functions Sf and Sd in P6s calculate the limits based on KDB 447498 V06 and are calculated as follows.

$$S_f(f_{MHz}) := exp\left(-10\frac{(f_{MHz} - f_{max})^2}{\Delta f^2}\right) \qquad S_d(d_{mm}) := 0.5 + 0.5 \cdot exp\left(-10\frac{(d_{mm} - d_{max})^2}{\Delta d^2}\right)$$





d≤50mm				
f Max(MHz)	100		d Max(mm)	50
f MHz	13.56		d(mm)	5
△f(MHz)	100		△d	50
$S_f(f_{MHz})$	0.000568861		S_d（dmm）	0.50015177
P6s(mW)	443.1257378			
Note: SAR testing is required when the distance is 5mm and the power is greater than 443.13mW.				

4. According to the ANSI C63.10 clause 11.12.2.2:

The value of maximum peak output power is according to the method described in ANSI C63.10 clause 11.12.2.2 General procedure for conducted measurements in restricted bands:

a) Measure the conducted output power (in dBm) using the detector specified (see guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).

b) Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the ERP level (see guidance on determining the applicable antenna gain)

c) Add the appropriate maximum ground reflection factor to the ERP level (6 dB for frequencies ≤ 30 MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies > 1000 MHz).

d) For devices with multiple antenna-ports, measure the power of each individual chain and sum the ERP of all chains in linear terms (e.g., Watts, mW).

e) Convert the resultant ERP level to an equivalent electric field strength using the following relationship: E = ERP - 20log D + 104.8

where:

E = electric field strength in dBμV/m,

ERP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

Mode	f (MHz)	Max. E-Field strength (dBuV/m)	D (m)	Ground reflection factor (dB)	ERP (dBm)
NFC (13.56MHz)	13.56	57.93	10	6	-20.87
Note: 1. Add the appropriate maximum ground reflection factor to the ERP level (6 dB for frequencies ≤ 30 MHz). 2.ERP= 57.93+20*Log(10) - 104.8 + 6 =-20.87 (dBm)					

According to the FCC KDB 447498 D04

Estimated SAR: SAR test =1.6 · Pant / Pth [W/kg]

Estimated SAR	1.6 ·Pant / Pth [W/kg]		
Pmeas.(dBm)	-20.87	Pmeas.(mW)	0.00818
Pth.(mW)	443.13		
NFC Estimated 1g SAR [W/kg]	＜0.001		

10.19.1 Highest Total Exposure Ratio of Simultaneous Transmission

NFC multi-transmit requires the use of the TER formula:

$$TER = \sum_{k=1}^{N_S}\left(\frac{SAR_k}{SAR_{\lim}}\right) + \sum_{k=1}^{N_f}\left(\frac{MPE_{field,\,k}}{MPE_{field,\,\lim}}\right)^2 + \sum_{k=1}^{N_{PD}}\left(\frac{MPE_{PD,\,k}}{MPE_{PD,\,\lim}}\right)$$ The

maximum SAR value for Simultaneous Transmission is 1.486 [W/kg], SAR test exemption may be considered by applying a factor of 2.5 to the SAR-based exemption thresholds. Therefore, the worst TER =(1.486+0.001)/1.6 = 0.929＜1,the NFC SAR transmit simultaneously Pass.

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.

Note: For product specific 10g SAR, the highest measured 10g SAR is 0.836 < 2.0 W/kg, repeated measurement is not required.

12 SIMULTANEOUS TRANSMISSION

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

12.1 Simultaneous Transmission Mode Consider

No.	Simultaneous Tx Combination	Head	Body-Worn	Hotspot	Specific
1	WWAN + WLAN 2.4GHz(Ant.12)	Yes	Yes	Yes	Yes
2	WWAN + WLAN 2.4GHz(Ant.14)	Yes	Yes	Yes	Yes
3	WWAN + BT(Ant.12)	Yes	Yes	Yes	Yes
4	WWAN + BT(Ant.14)	Yes	Yes	Yes	Yes
5	WWAN + WLAN 5GHz(Ant.12)	Yes	Yes	Yes	Yes
6	WWAN + WLAN 5GHz(Ant.14)	Yes	Yes	Yes	Yes
7	WLAN 5GHz(Ant.12) + BT(Ant.12)	Yes	Yes	Yes	Yes
8	WLAN 5GHz(Ant.12) + BT(Ant.14)	Yes	Yes	Yes	Yes
9	WWAN + WLAN 5GHz(Ant.12) + BT(Ant.12)	Yes	Yes	Yes	Yes
10	WWAN + WLAN 5GHz(Ant.12) + BT(Ant.14)	Yes	Yes	Yes	Yes

Note:
1. WWAN antennas can switch automatically, the standards supported by WWAN are(GSM Voice/GPRS/EDGE/WCDMA/LTE).
2. The maximum SAR summation is calculated based on the same configuration and test position.
3.WLAN 2.4GHz and Bluetooth will not be transmitting at same time,WLAN 2.4GHz and WLAN 5GHz will not be transmitting at same time.
4. The Bluetooth support dual antennas, and can't transmit simultaneously, the WLAN 2.4G support dual antennas, but does not support MIMO.

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	5	6				
			WWAN	2.4GWIFI Ant.12	2.4GWIFI Ant.14	5GWIFI Ant.12	Bluetooth Ant.12	Bluetooth Ant.14	1+2	1+3	1+4+5	1+4+6
GSM850	Ant.2	Left Cheek	0.573	0.703	0.369	0.650	0.224	0.102	1.276	0.942	1.447	1.325
		Left Tilt	0.544	0.446	0.162	0.782	0.160	0.045	0.990	0.706	**1.486**	1.371
		Right Cheek	0.761	0.300	0.114	0.411	0.090	0.041	1.061	0.875	1.262	1.213
		Right Tilt	0.672	0.305	0.063	0.463	0.095	0.029	0.977	0.735	1.230	1.164
GSM850	Ant.0	Left Cheek	0.071	0.703	0.369	0.650	0.224	0.102	0.774	0.440	0.945	0.823
		Left Tilt	0.042	0.446	0.162	0.782	0.160	0.045	0.488	0.204	0.984	0.869
		Right Cheek	0.092	0.300	0.114	0.411	0.090	0.041	0.392	0.206	0.593	0.544
		Right Tilt	0.050	0.305	0.063	0.463	0.095	0.029	0.355	0.113	0.608	0.542
GSM1900	Ant.2	Left Cheek	0.271	0.703	0.369	0.650	0.224	0.102	0.974	0.640	1.145	1.023
		Left Tilt	0.351	0.446	0.162	0.782	0.160	0.045	0.797	0.513	1.293	1.178
		Right Cheek	0.520	0.300	0.114	0.411	0.090	0.041	0.820	0.634	1.021	0.972
		Right Tilt	0.642	0.305	0.063	0.463	0.095	0.029	0.947	0.705	1.200	1.134
GSM1900	Ant.0	Left Cheek	0.031	0.703	0.369	0.650	0.224	0.102	0.734	0.400	0.905	0.783
		Left Tilt	0.022	0.446	0.162	0.782	0.160	0.045	0.468	0.184	0.964	0.849
		Right Cheek	0.035	0.300	0.114	0.411	0.090	0.041	0.335	0.149	0.536	0.487
		Right Tilt	0.020	0.305	0.063	0.463	0.095	0.029	0.325	0.083	0.578	0.512
WCDMA B2	Ant.2	Left Cheek	0.192	0.703	0.369	0.650	0.224	0.102	0.895	0.561	1.066	0.944
		Left Tilt	0.247	0.446	0.162	0.782	0.160	0.045	0.693	0.409	1.189	1.074
		Right Cheek	0.356	0.300	0.114	0.411	0.090	0.041	0.656	0.470	0.857	0.808
		Right Tilt	0.428	0.305	0.063	0.463	0.095	0.029	0.733	0.491	0.986	0.920
WCDMA B2	Ant.0	Left Cheek	0.028	0.703	0.369	0.650	0.224	0.102	0.731	0.397	0.902	0.780
		Left Tilt	0.024	0.446	0.162	0.782	0.160	0.045	0.470	0.186	0.966	0.851
		Right Cheek	0.027	0.300	0.114	0.411	0.090	0.041	0.327	0.141	0.528	0.479
		Right Tilt	0.017	0.305	0.063	0.463	0.095	0.029	0.322	0.080	0.575	0.509
WCDMA B4	Ant.2	Left Cheek	0.320	0.703	0.369	0.650	0.224	0.102	1.023	0.689	1.194	1.072
		Left Tilt	0.393	0.446	0.162	0.782	0.160	0.045	0.839	0.555	1.335	1.220
		Right Cheek	0.615	0.300	0.114	0.411	0.090	0.041	0.915	0.729	1.116	1.067
		Right Tilt	0.663	0.305	0.063	0.463	0.095	0.029	0.968	0.726	1.221	1.155
WCDMA B4	Ant.0	Left Cheek	0.013	0.703	0.369	0.650	0.224	0.102	0.716	0.382	0.887	0.765
		Left Tilt	0.011	0.446	0.162	0.782	0.160	0.045	0.457	0.173	0.953	0.838
		Right Cheek	0.018	0.300	0.114	0.411	0.090	0.041	0.318	0.132	0.519	0.470
		Right Tilt	0.014	0.305	0.063	0.463	0.095	0.029	0.319	0.077	0.572	0.506
WCDMA B5	Ant.2	Left Cheek	0.498	0.703	0.369	0.650	0.224	0.102	1.201	0.867	1.372	1.250
		Left Tilt	0.449	0.446	0.162	0.782	0.160	0.045	0.895	0.611	1.391	1.276
		Right Cheek	0.661	0.300	0.114	0.411	0.090	0.041	0.961	0.775	1.162	1.113

		Right Tilt	0.591	0.305	0.063	0.463	0.095	0.029	0.896	0.654	1.149	1.083
WCDMA B5	Ant.0	Left Cheek	0.074	0.703	0.369	0.650	0.224	0.102	0.777	0.443	0.948	0.826
		Left Tilt	0.061	0.446	0.162	0.782	0.160	0.045	0.507	0.223	1.003	0.888
		Right Cheek	0.088	0.300	0.114	0.411	0.090	0.041	0.388	0.202	0.589	0.540
		Right Tilt	0.078	0.305	0.063	0.463	0.095	0.029	0.383	0.141	0.636	0.570
LTE B7	Ant.2	Left Cheek	0.140	0.703	0.369	0.650	0.224	0.102	0.843	0.509	1.014	0.892
		Left Tilt	0.193	0.446	0.162	0.782	0.160	0.045	0.639	0.355	1.135	1.020
		Right Cheek	0.444	0.300	0.114	0.411	0.090	0.041	0.744	0.558	0.945	0.896
		Right Tilt	0.485	0.305	0.063	0.463	0.095	0.029	0.790	0.548	1.043	0.977
LTE B7	Ant.0	Left Cheek	0.031	0.703	0.369	0.650	0.224	0.102	0.734	0.400	0.905	0.783
		Left Tilt	0.018	0.446	0.162	0.782	0.160	0.045	0.464	0.180	0.960	0.845
		Right Cheek	0.018	0.300	0.114	0.411	0.090	0.041	0.318	0.132	0.519	0.470
		Right Tilt	0.014	0.305	0.063	0.463	0.095	0.029	0.319	0.077	0.572	0.506
LTE B12	Ant.2	Left Cheek	0.319	0.703	0.369	0.650	0.224	0.102	1.022	0.688	1.193	1.071
		Left Tilt	0.292	0.446	0.162	0.782	0.160	0.045	0.738	0.454	1.234	1.119
		Right Cheek	0.457	0.300	0.114	0.411	0.090	0.041	0.757	0.571	0.958	0.909
		Right Tilt	0.430	0.305	0.063	0.463	0.095	0.029	0.735	0.493	0.988	0.922
LTE B12	Ant.0	Left Cheek	0.087	0.703	0.369	0.650	0.224	0.102	0.790	0.456	0.961	0.839
		Left Tilt	0.032	0.446	0.162	0.782	0.160	0.045	0.478	0.194	0.974	0.859
		Right Cheek	0.097	0.300	0.114	0.411	0.090	0.041	0.397	0.211	0.598	0.549
		Right Tilt	0.037	0.305	0.063	0.463	0.095	0.029	0.342	0.100	0.595	0.529
LTE B13	Ant.2	Left Cheek	0.542	0.703	0.369	0.650	0.224	0.102	1.245	0.911	1.416	1.294
		Left Tilt	0.484	0.446	0.162	0.782	0.160	0.045	0.930	0.646	1.426	1.311
		Right Cheek	0.751	0.300	0.114	0.411	0.090	0.041	1.051	0.865	1.252	1.203
		Right Tilt	0.611	0.305	0.063	0.463	0.095	0.029	0.916	0.674	1.169	1.103
LTE B13	Ant.0	Left Cheek	0.069	0.703	0.369	0.650	0.224	0.102	0.772	0.438	0.943	0.821
		Left Tilt	0.030	0.446	0.162	0.782	0.160	0.045	0.476	0.192	0.972	0.857
		Right Cheek	0.084	0.300	0.114	0.411	0.090	0.041	0.384	0.198	0.585	0.536
		Right Tilt	0.042	0.305	0.063	0.463	0.095	0.029	0.347	0.105	0.600	0.534
LTE B25	Ant.2	Left Cheek	0.191	0.703	0.369	0.650	0.224	0.102	0.894	0.560	1.065	0.943
		Left Tilt	0.248	0.446	0.162	0.782	0.160	0.045	0.694	0.410	1.190	1.075
		Right Cheek	0.343	0.300	0.114	0.411	0.090	0.041	0.643	0.457	0.844	0.795
		Right Tilt	0.432	0.305	0.063	0.463	0.095	0.029	0.737	0.495	0.990	0.924
LTE B25	Ant.0	Left Cheek	0.019	0.703	0.369	0.650	0.224	0.102	0.722	0.388	0.893	0.771
		Left Tilt	0.018	0.446	0.162	0.782	0.160	0.045	0.464	0.180	0.960	0.845
		Right Cheek	0.019	0.300	0.114	0.411	0.090	0.041	0.319	0.133	0.520	0.471
		Right Tilt	0.014	0.305	0.063	0.463	0.095	0.029	0.319	0.077	0.572	0.506
LTE B26	Ant.2	Left Cheek	0.424	0.703	0.369	0.650	0.224	0.102	1.127	0.793	1.298	1.176
		Left Tilt	0.385	0.446	0.162	0.782	0.160	0.045	0.831	0.547	1.327	1.212
		Right Cheek	0.562	0.300	0.114	0.411	0.090	0.041	0.862	0.676	1.063	1.014
		Right Tilt	0.475	0.305	0.063	0.463	0.095	0.029	0.780	0.538	1.033	0.967
LTE B26	Ant.0	Left Cheek	0.055	0.703	0.369	0.650	0.224	0.102	0.758	0.424	0.929	0.807
		Left Tilt	0.023	0.446	0.162	0.782	0.160	0.045	0.469	0.185	0.965	0.850

		Right Cheek	0.060	0.300	0.114	0.411	0.090	0.041	0.360	0.174	0.561	0.512
		Right Tilt	0.040	0.305	0.063	0.463	0.095	0.029	0.345	0.103	0.598	0.532
LTE B66	Ant.2	Left Cheek	0.312	0.703	0.369	0.650	0.224	0.102	1.015	0.681	1.186	1.064
		Left Tilt	0.314	0.446	0.162	0.782	0.160	0.045	0.760	0.476	1.256	1.141
		Right Cheek	0.558	0.300	0.114	0.411	0.090	0.041	0.858	0.672	1.059	1.010
		Right Tilt	0.609	0.305	0.063	0.463	0.095	0.029	0.914	0.672	1.167	1.101
LTE B66	Ant.0	Left Cheek	0.075	0.703	0.369	0.650	0.224	0.102	0.778	0.444	0.949	0.827
		Left Tilt	0.064	0.446	0.162	0.782	0.160	0.045	0.510	0.226	1.006	0.891
		Right Cheek	0.101	0.300	0.114	0.411	0.090	0.041	0.401	0.215	0.602	0.553
		Right Tilt	0.082	0.305	0.063	0.463	0.095	0.029	0.387	0.145	0.640	0.574
LTE B41	Ant.2	Left Cheek	0.096	0.703	0.369	0.650	0.224	0.102	0.799	0.465	0.970	0.848
		Left Tilt	0.119	0.446	0.162	0.782	0.160	0.045	0.565	0.281	1.061	0.946
		Right Cheek	0.269	0.300	0.114	0.411	0.090	0.041	0.569	0.383	0.770	0.721
		Right Tilt	0.285	0.305	0.063	0.463	0.095	0.029	0.590	0.348	0.843	0.777
LTE B41	Ant.0	Left Cheek	0.046	0.703	0.369	0.650	0.224	0.102	0.749	0.415	0.920	0.798
		Left Tilt	0.022	0.446	0.162	0.782	0.160	0.045	0.468	0.184	0.964	0.849
		Right Cheek	0.024	0.300	0.114	0.411	0.090	0.041	0.324	0.138	0.525	0.476
		Right Tilt	0.022	0.305	0.063	0.463	0.095	0.029	0.327	0.085	0.580	0.514

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

12.2.2 Body-worn&Hotspot Simultaneous Transmission SAR Evaluation for WWAN and WLAN and BT

Band	Antenna	Position	Stand alone SAR						SUM SAR			
			1	2	3	4	5	6				
			WWAN	2.4GWIFI Ant.12	2.4GWIFI Ant.14	5GWIFI Ant.12	Bluetooth Ant.12	Bluetooth Ant.14	1+2	1+3	1+4+5	1+4+6
GSM850	Ant.2	Front Side 10mm	0.124	0.113	0.081	0.133	0.042	0.014	0.237	0.205	0.299	0.271
		Back Side 10mm	0.135	0.287	0.185	0.638	0.075	0.050	0.422	0.320	0.848	0.823
		Left Edge 10mm	0.000	0.072	0.128	0.437	0.022	0.034	0.072	0.128	0.459	0.471
		Right Edge 10mm	0.053	0.000	0.000	0.000	0.000	0.000	0.053	0.053	0.053	0.053
		Top Edge 10mm	0.117	0.152	0.034	0.371	0.055	0.011	0.269	0.151	0.543	0.499
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GSM850	Ant.0	Front Side 10mm	0.078	0.113	0.081	0.133	0.042	0.014	0.191	0.159	0.253	0.225
		Back Side 10mm	0.126	0.287	0.185	0.638	0.075	0.050	0.413	0.311	0.839	0.814
		Left Edge 10mm	0.108	0.072	0.128	0.437	0.022	0.034	0.180	0.236	0.567	0.579
		Right Edge 10mm	0.032	0.000	0.000	0.000	0.000	0.000	0.032	0.032	0.032	0.032
		Top Edge 10mm	0.000	0.152	0.034	0.371	0.055	0.011	0.152	0.034	0.426	0.382
		Bottom Edge 10mm	0.080	0.000	0.000	0.000	0.000	0.000	0.080	0.080	0.080	0.080
GSM1900	Ant.2	Front Side 10mm	0.159	0.113	0.081	0.133	0.042	0.014	0.272	0.240	0.334	0.306
		Back Side 10mm	0.313	0.287	0.185	0.638	0.075	0.050	0.600	0.498	**1.026**	1.001
		Left Edge 10mm	0.000	0.072	0.128	0.437	0.022	0.034	0.072	0.128	0.459	0.471
		Right Edge 10mm	0.052	0.000	0.000	0.000	0.000	0.000	0.052	0.052	0.052	0.052
		Top Edge 10mm	0.424	0.152	0.034	0.371	0.055	0.011	0.576	0.458	0.850	0.806
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GSM1900	Ant.0	Front Side 10mm	0.111	0.113	0.081	0.133	0.042	0.014	0.224	0.192	0.286	0.258
		Back Side 10mm	0.223	0.287	0.185	0.638	0.075	0.050	0.510	0.408	0.936	0.911
		Left Edge 10mm	0.014	0.072	0.128	0.437	0.022	0.034	0.086	0.142	0.473	0.485
		Right Edge 10mm	0.075	0.000	0.000	0.000	0.000	0.000	0.075	0.075	0.075	0.075
		Top Edge 10mm	0.000	0.152	0.034	0.371	0.055	0.011	0.152	0.034	0.426	0.382
		Bottom Edge 10mm	0.081	0.000	0.000	0.000	0.000	0.000	0.081	0.081	0.081	0.081
WCDMA B2	Ant.2	Front Side 10mm	0.083	0.113	0.081	0.133	0.042	0.014	0.196	0.164	0.258	0.230
		Back Side 10mm	0.146	0.287	0.185	0.638	0.075	0.050	0.433	0.331	0.859	0.834
		Left Edge 10mm	0.000	0.072	0.128	0.437	0.022	0.034	0.072	0.128	0.459	0.471
		Right Edge 10mm	0.026	0.000	0.000	0.000	0.000	0.000	0.026	0.026	0.026	0.026
		Top Edge 10mm	0.215	0.152	0.034	0.371	0.055	0.011	0.367	0.249	0.641	0.597
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA B2	Ant.0	Front Side 10mm	0.056	0.113	0.081	0.133	0.042	0.014	0.169	0.137	0.231	0.203
		Back Side 10mm	0.117	0.287	0.185	0.638	0.075	0.050	0.404	0.302	0.830	0.805
		Left Edge 10mm	0.029	0.072	0.128	0.437	0.022	0.034	0.101	0.157	0.488	0.500
		Right Edge 10mm	0.024	0.000	0.000	0.000	0.000	0.000	0.024	0.024	0.024	0.024
		Top Edge 10mm	0.000	0.152	0.034	0.371	0.055	0.011	0.152	0.034	0.426	0.382
		Bottom Edge 10mm	0.132	0.000	0.000	0.000	0.000	0.000	0.132	0.132	0.132	0.132

WCDMA B4	Ant.2	Front Side 10mm	0.151	0.113	0.081	0.133	0.042	0.014	0.264	0.232	0.326	0.298
		Back Side 10mm	0.228	0.287	0.185	0.638	0.075	0.050	0.515	0.413	0.941	0.916
		Left Edge 10mm	0.000	0.072	0.128	0.437	0.022	0.034	0.072	0.128	0.459	0.471
		Right Edge 10mm	0.047	0.000	0.000	0.000	0.000	0.000	0.047	0.047	0.047	0.047
		Top Edge 10mm	0.237	0.152	0.034	0.371	0.055	0.011	0.389	0.271	0.663	0.619
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA B4	Ant.0	Front Side 10mm	0.032	0.113	0.081	0.133	0.042	0.014	0.145	0.113	0.207	0.179
		Back Side 10mm	0.079	0.287	0.185	0.638	0.075	0.050	0.366	0.264	0.792	0.767
		Left Edge 10mm	0.005	0.072	0.128	0.437	0.022	0.034	0.077	0.133	0.464	0.476
		Right Edge 10mm	0.015	0.000	0.000	0.000	0.000	0.000	0.015	0.015	0.015	0.015
		Top Edge 10mm	0.000	0.152	0.034	0.371	0.055	0.011	0.152	0.034	0.426	0.382
		Bottom Edge 10mm	0.089	0.000	0.000	0.000	0.000	0.000	0.089	0.089	0.089	0.089
WCDMA B5	Ant.2	Front Side 10mm	0.194	0.113	0.081	0.133	0.042	0.014	0.307	0.275	0.369	0.341
		Back Side 10mm	0.216	0.287	0.185	0.638	0.075	0.050	0.503	0.401	0.929	0.904
		Left Edge 10mm	0.000	0.072	0.128	0.437	0.022	0.034	0.072	0.128	0.459	0.471
		Right Edge 10mm	0.087	0.000	0.000	0.000	0.000	0.000	0.087	0.087	0.087	0.087
		Top Edge 10mm	0.207	0.152	0.034	0.371	0.055	0.011	0.359	0.241	0.633	0.589
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA B5	Ant.0	Front Side 10mm	0.136	0.113	0.081	0.133	0.042	0.014	0.249	0.217	0.311	0.283
		Back Side 10mm	0.193	0.287	0.185	0.638	0.075	0.050	0.480	0.378	0.906	0.881
		Left Edge 10mm	0.121	0.072	0.128	0.437	0.022	0.034	0.193	0.249	0.580	0.592
		Right Edge 10mm	0.074	0.000	0.000	0.000	0.000	0.000	0.074	0.074	0.074	0.074
		Top Edge 10mm	0.000	0.152	0.034	0.371	0.055	0.011	0.152	0.034	0.426	0.382
		Bottom Edge 10mm	0.185	0.000	0.000	0.000	0.000	0.000	0.185	0.185	0.185	0.185
LTE B7	Ant.2	Front Side 10mm	0.093	0.113	0.081	0.133	0.042	0.014	0.206	0.174	0.268	0.240
		Back Side 10mm	0.194	0.287	0.185	0.638	0.075	0.050	0.481	0.379	0.907	0.882
		Left Edge 10mm	0.000	0.072	0.128	0.437	0.022	0.034	0.072	0.128	0.459	0.471
		Right Edge 10mm	0.011	0.000	0.000	0.000	0.000	0.000	0.011	0.011	0.011	0.011
		Top Edge 10mm	0.210	0.152	0.034	0.371	0.055	0.011	0.362	0.244	0.636	0.592
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B7	Ant.0	Front Side 10mm	0.041	0.113	0.081	0.133	0.042	0.014	0.154	0.122	0.216	0.188
		Back Side 10mm	0.048	0.287	0.185	0.638	0.075	0.050	0.335	0.233	0.761	0.736
		Left Edge 10mm	0.011	0.072	0.128	0.437	0.022	0.034	0.083	0.139	0.470	0.482
		Right Edge 10mm	0.033	0.000	0.000	0.000	0.000	0.000	0.033	0.033	0.033	0.033
		Top Edge 10mm	0.000	0.152	0.034	0.371	0.055	0.011	0.152	0.034	0.426	0.382
		Bottom Edge 10mm	0.066	0.000	0.000	0.000	0.000	0.000	0.066	0.066	0.066	0.066
LTE B12	Ant.2	Front Side 10mm	0.095	0.113	0.081	0.133	0.042	0.014	0.208	0.176	0.270	0.242
		Back Side 10mm	0.127	0.287	0.185	0.638	0.075	0.050	0.414	0.312	0.840	0.815
		Left Edge 10mm	0.000	0.072	0.128	0.437	0.022	0.034	0.072	0.128	0.459	0.471
		Right Edge 10mm	0.100	0.000	0.000	0.000	0.000	0.000	0.100	0.100	0.100	0.100
		Top Edge 10mm	0.100	0.152	0.034	0.371	0.055	0.011	0.252	0.134	0.526	0.482
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B12	Ant.0	Front Side 10mm	0.111	0.113	0.081	0.133	0.042	0.014	0.224	0.192	0.286	0.258

		Back Side 10mm	0.150	0.287	0.185	0.638	0.075	0.050	0.437	0.335	0.863	0.838
		Left Edge 10mm	0.135	0.072	0.128	0.437	0.022	0.034	0.207	0.263	0.594	0.606
		Right Edge 10mm	0.115	0.000	0.000	0.000	0.000	0.000	0.115	0.115	0.115	0.115
		Top Edge 10mm	0.000	0.152	0.034	0.371	0.055	0.011	0.152	0.034	0.426	0.382
		Bottom Edge 10mm	0.128	0.000	0.000	0.000	0.000	0.000	0.128	0.128	0.128	0.128
LTE B13	Ant.2	Front Side 10mm	0.156	0.113	0.081	0.133	0.042	0.014	0.269	0.237	0.331	0.303
		Back Side 10mm	0.202	0.287	0.185	0.638	0.075	0.050	0.489	0.387	0.915	0.890
		Left Edge 10mm	0.000	0.072	0.128	0.437	0.022	0.034	0.072	0.128	0.459	0.471
		Right Edge 10mm	0.141	0.000	0.000	0.000	0.000	0.000	0.141	0.141	0.141	0.141
		Top Edge 10mm	0.159	0.152	0.034	0.371	0.055	0.011	0.311	0.193	0.585	0.541
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B13	Ant.0	Front Side 10mm	0.075	0.113	0.081	0.133	0.042	0.014	0.188	0.156	0.250	0.222
		Back Side 10mm	0.140	0.287	0.185	0.638	0.075	0.050	0.427	0.325	0.853	0.828
		Left Edge 10mm	0.097	0.072	0.128	0.437	0.022	0.034	0.169	0.225	0.556	0.568
		Right Edge 10mm	0.042	0.000	0.000	0.000	0.000	0.000	0.042	0.042	0.042	0.042
		Top Edge 10mm	0.000	0.152	0.034	0.371	0.055	0.011	0.152	0.034	0.426	0.382
		Bottom Edge 10mm	0.114	0.000	0.000	0.000	0.000	0.000	0.114	0.114	0.114	0.114
LTE B25	Ant.2	Front Side 10mm	0.076	0.113	0.081	0.133	0.042	0.014	0.189	0.157	0.251	0.223
		Back Side 10mm	0.010	0.287	0.185	0.638	0.075	0.050	0.297	0.195	0.723	0.698
		Left Edge 10mm	0.000	0.072	0.128	0.437	0.022	0.034	0.072	0.128	0.459	0.471
		Right Edge 10mm	0.024	0.000	0.000	0.000	0.000	0.000	0.024	0.024	0.024	0.024
		Top Edge 10mm	0.199	0.152	0.034	0.371	0.055	0.011	0.351	0.233	0.625	0.581
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B25	Ant.0	Front Side 10mm	0.053	0.113	0.081	0.133	0.042	0.014	0.166	0.134	0.228	0.200
		Back Side 10mm	0.120	0.287	0.185	0.638	0.075	0.050	0.407	0.305	0.833	0.808
		Left Edge 10mm	0.009	0.072	0.128	0.437	0.022	0.034	0.081	0.137	0.468	0.480
		Right Edge 10mm	0.043	0.000	0.000	0.000	0.000	0.000	0.043	0.043	0.043	0.043
		Top Edge 10mm	0.000	0.152	0.034	0.371	0.055	0.011	0.152	0.034	0.426	0.382
		Bottom Edge 10mm	0.130	0.000	0.000	0.000	0.000	0.000	0.130	0.130	0.130	0.130
LTE B26	Ant.2	Front Side 10mm	0.117	0.113	0.081	0.133	0.042	0.014	0.230	0.198	0.292	0.264
		Back Side 10mm	0.143	0.287	0.185	0.638	0.075	0.050	0.430	0.328	0.856	0.831
		Left Edge 10mm	0.000	0.072	0.128	0.437	0.022	0.034	0.072	0.128	0.459	0.471
		Right Edge 10mm	0.057	0.000	0.000	0.000	0.000	0.000	0.057	0.057	0.057	0.057
		Top Edge 10mm	0.112	0.152	0.034	0.371	0.055	0.011	0.264	0.146	0.538	0.494
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B26	Ant.0	Front Side 10mm	0.060	0.113	0.081	0.133	0.042	0.014	0.173	0.141	0.235	0.207
		Back Side 10mm	0.088	0.287	0.185	0.638	0.075	0.050	0.375	0.273	0.801	0.776
		Left Edge 10mm	0.059	0.072	0.128	0.437	0.022	0.034	0.131	0.187	0.518	0.530
		Right Edge 10mm	0.041	0.000	0.000	0.000	0.000	0.000	0.041	0.041	0.041	0.041
		Top Edge 10mm	0.000	0.152	0.034	0.371	0.055	0.011	0.152	0.034	0.426	0.382
		Bottom Edge 10mm	0.081	0.000	0.000	0.000	0.000	0.000	0.081	0.081	0.081	0.081
LTE B66	Ant.2	Front Side 10mm	0.120	0.113	0.081	0.133	0.042	0.014	0.233	0.201	0.295	0.267
		Back Side 10mm	0.164	0.287	0.185	0.638	0.075	0.050	0.451	0.349	0.877	0.852

		Left Edge 10mm	0.000	0.072	0.128	0.437	0.022	0.034	0.072	0.128	0.459	0.471
		Right Edge 10mm	0.035	0.000	0.000	0.000	0.000	0.000	0.035	0.035	0.035	0.035
		Top Edge 10mm	0.204	0.152	0.034	0.371	0.055	0.011	0.356	0.238	0.630	0.586
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B66	Ant.0	Front Side 10mm	0.023	0.113	0.081	0.133	0.042	0.014	0.136	0.104	0.198	0.170
		Back Side 10mm	0.058	0.287	0.185	0.638	0.075	0.050	0.345	0.243	0.771	0.746
		Left Edge 10mm	0.019	0.072	0.128	0.437	0.022	0.034	0.091	0.147	0.478	0.490
		Right Edge 10mm	0.013	0.000	0.000	0.000	0.000	0.000	0.013	0.013	0.013	0.013
		Top Edge 10mm	0.000	0.152	0.034	0.371	0.055	0.011	0.152	0.034	0.426	0.382
		Bottom Edge 10mm	0.077	0.000	0.000	0.000	0.000	0.000	0.077	0.077	0.077	0.077
LTE B41	Ant.2	Front Side 10mm	0.065	0.113	0.081	0.133	0.042	0.014	0.178	0.146	0.240	0.212
		Back Side 10mm	0.151	0.287	0.185	0.638	0.075	0.050	0.438	0.336	0.864	0.839
		Left Edge 10mm	0.000	0.072	0.128	0.437	0.022	0.034	0.072	0.128	0.459	0.471
		Right Edge 10mm	0.080	0.000	0.000	0.000	0.000	0.000	0.080	0.080	0.080	0.080
		Top Edge 10mm	0.145	0.152	0.034	0.371	0.055	0.011	0.297	0.179	0.571	0.527
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B41	Ant.0	Front Side 10mm	0.032	0.113	0.081	0.133	0.042	0.014	0.145	0.113	0.207	0.179
		Back Side 10mm	0.040	0.287	0.185	0.638	0.075	0.050	0.327	0.225	0.753	0.728
		Left Edge 10mm	0.020	0.072	0.128	0.437	0.022	0.034	0.092	0.148	0.479	0.491
		Right Edge 10mm	0.027	0.000	0.000	0.000	0.000	0.000	0.027	0.027	0.027	0.027
		Top Edge 10mm	0.000	0.152	0.034	0.371	0.055	0.011	0.152	0.034	0.426	0.382
		Bottom Edge 10mm	0.052	0.000	0.000	0.000	0.000	0.000	0.052	0.052	0.052	0.052

Note:

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

2: The highest Summed 1g SAR is 1.026 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	2021/07/05	2024/07/04
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	2021/09/13	2024/09/12
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 Electronicsr	Speag	DAE4	SN: 1711	2024/03/18	2025/03/17
E-Field Probe	Speag	EX3DV4	SN: 7510	2024/06/25	2025/06/24
E-Field Probe	Speag	EX3DV4	SN: 7607	2023/07/04	2024/07/03
Signal Generator	R&S	SMB100A	177746	2024/04/24	2025/04/23
Power Meter	R&S	NRVD-B2	835843/014	2023/09/05	2024/09/04
Power Sensor	R&S	NRV-Z4	100381	2023/09/05	2024/09/04
Power Sensor	R&S	NRV-Z2	100211	2023/09/05	2024/09/04
Wireless Communication Test Set	Anritsu	MT8820C	6201502991	2023/11/14	2024/11/13
Network Analyzer	Agilent	E5071C	MY46103472	2023/11/14	2024/11/14
Thermometer	Elitech	RC-4	EF5238001628	2023/10/09	2024/10/08
Thermometer	Elitech	RC-4HC	EF7239002652	2023/11/17	2024/11/16
Power Amplifier	SATIMO	6552B	22374	N/A	N/A
Dielectric Probe Kit	Speag	DAK3.5	SN: 1312	N/A	N/A
Phantom	Speag	SAM	SN: 1859	N/A	N/A
Attenuator	COM-MW	ZA-S1-31	1305003187	N/A	N/A
Directional coupler	AA-MCS	AAMCS-UDC	000272	N/A	N/A

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

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

ANNEX A SIMULATING LIQUID VERIFICATION RESULT

The dielectric parameters of the liquids were verified prior to the SAR evaluation using a DAK3.5 Dielectric Probe Kit.

Head Liquid

Date	Liquid Type	Fre. (MHz)	Temp. (℃)	Meas. Conductivity (σ) (S/m)	Meas. Permittivity (ε)	Target Conductivity (σ) (S/m)	Target Permittivity (ε)	Conductivity Tolerance (%)	Permittivity Tolerance (%)
2024.06.30	Head	750	21.4	0.89	42.03	0.89	41.94	0.00	0.21
2024.07.12	Head	835	21.3	0.88	42.67	0.90	41.50	-2.22	2.82
2024.07.13	Head	835	21.3	0.91	42.14	0.90	41.50	1.11	1.54
2024.07.25	Head	1750	21.5	1.35	40.41	1.37	40.08	-1.46	0.82
2024.07.26	Head	1950	21.7	1.44	38.62	1.40	40.00	2.86	-3.45
2024.07.13	Head	1950	21.3	1.38	39.01	1.40	40.00	-1.43	-2.48
2024.07.27	Head	2450	21.1	1.77	38.93	1.80	39.20	-1.67	-0.69
2024.07.27	Head	2600	21.1	1.98	39.32	1.96	39.01	1.02	0.79
2024.07.29	Head	5250	21.3	4.61	36.19	4.71	35.93	-2.12	0.72
2024.07.29	Head	5600	21.3	4.98	35.39	5.07	35.53	-1.78	-0.39
2024.07.28	Head	5750	21.8	5.22	34.76	5.22	35.36	0.00	-1.70
2024.07.28	Head	2600	21.8	1.99	38.74	1.96	39.01	1.53	-0.69
Note: The tolerance limit of Conductivity and Permittivity is± 5%.									

ANNEX B SYSTEM CHECK RESULT

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

Head liquid 1g

Date	Liquid Type	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)
2024.06.30	Head	750	100	0.86	8.57	8.51	0.71
2024.07.12	Head	835	100	0.98	9.77	9.74	0.31
2024.07.13	Head	835	100	0.98	9.84	9.74	1.03
2024.07.25	Head	1750	100	3.68	36.80	37.00	-0.54
2024.07.26	Head	1950	100	4.18	41.80	41.40	0.97
2024.07.13	Head	1950	100	4.25	42.50	41.40	2.66
2024.07.27	Head	2450	100	5.47	54.70	52.60	3.99
2024.07.27	Head	2600	100	5.67	56.70	55.90	1.43
2024.07.29	Head	5250	100	7.92	79.20	77.70	1.93
2024.07.29	Head	5600	100	8.28	82.80	81.30	1.85
2024.07.28	Head	5750	100	7.79	77.90	77.60	0.39
2024.07.28	Head	2600	100	5.55	55.50	55.90	-0.72
Note: The tolerance limit of System validation ±10%.							

Head liquid 10g

Date	Liquid Type	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)
2024.07.29	Head	5250	100	2.21	22.10	22.00	0.45
2024.07.29	Head	5600	100	2.35	23.50	23.10	1.73
Note: The tolerance limit of System validation ±10%.							

System Performance Check Data (750MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
CD750V2, SPEAG	10.0 x 10.0 x 3.0	Dipole

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 [℃]	Liquid Temperature [℃]
Flat, HSL		CD700	CW, 0--	750.0, 100	10.31	0.89	42.0	22.5	21.4

Hardware Setup

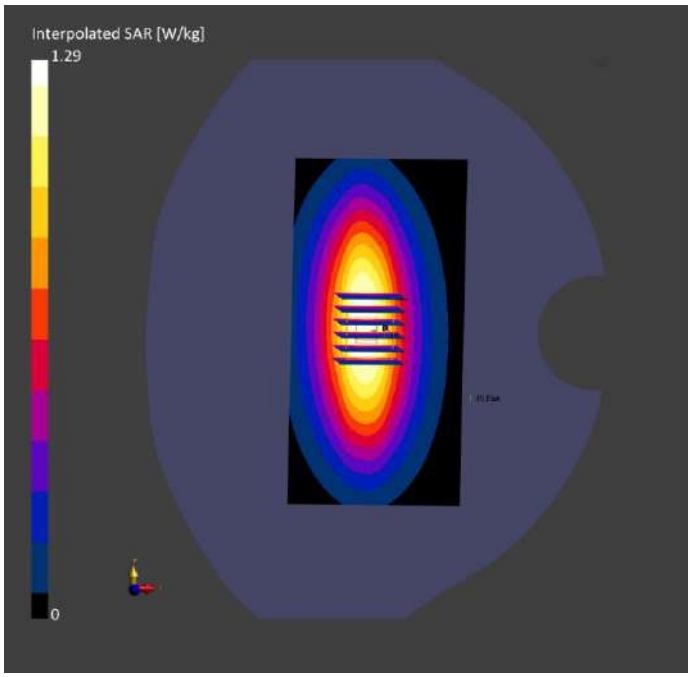
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-30	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

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	2024-06-30	2024-06-30
psSAR1g [W/kg]	0.843	0.857
psSAR10g [W/kg]	0.552	0.564
Power Drift [dB]	-0.01	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		85.6
Dist 3dB Peak [mm]		20.2


Interpolated SAR [W/kg]
1.29
0

System Performance Check Data (835MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
CD835V2, SPEAG	10.0 x 10.0 x 3.0	Dipole

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 [℃]	Liquid Temperature [℃]
Flat, HSL		CD835	CW, 0--	835.0, 50	9.99	0.881	42.7	22.6	21.3

Hardware Setup

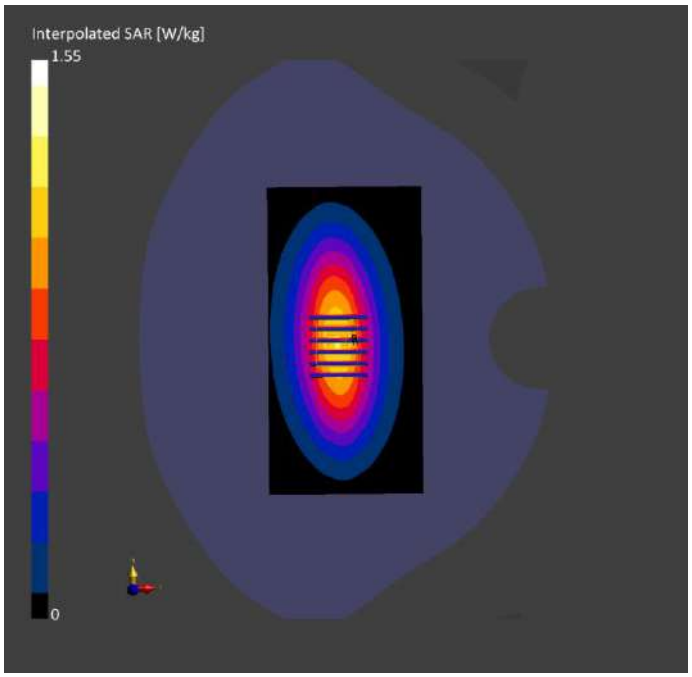
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-07-12	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

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	2024-07-12	2024-07-12
psSAR1g [W/kg]	0.944	0.977
psSAR10g [W/kg]	0.615	0.634
Power Drift [dB]	-0.03	-0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		83.2
Dist 3dB Peak [mm]		12.5


Interpolated SAR [W/kg]
1.55
0

System Performance Check Data (835MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
CD835V2, SPEAG	10.0 x 10.0 x 3.0	Dipole

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 [℃]	Liquid Temperature [℃]
Flat, HSL		CD835	CW, 0--	835.0, 50	9.99	0.906	42.1	22.6	21.3

Hardware Setup

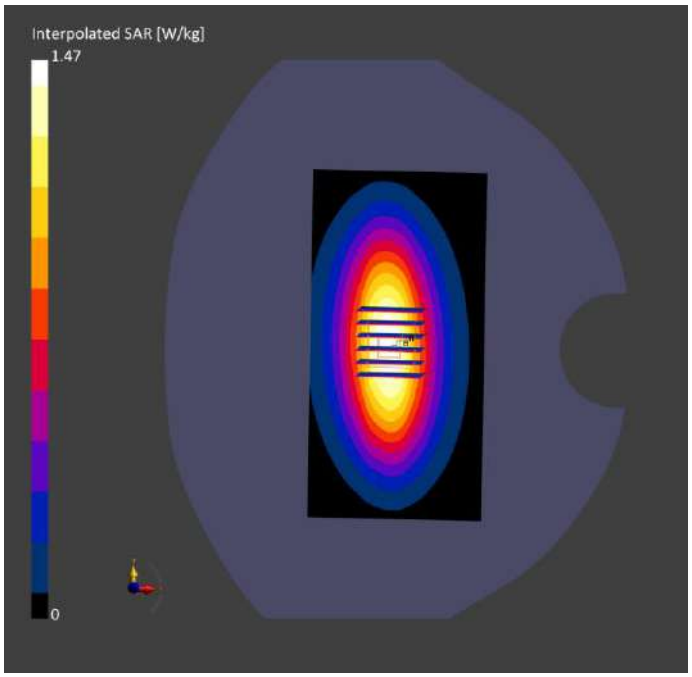
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-07-13	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

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	2024-07-13	2024-07-13
psSAR1g [W/kg]	0.952	0.984
psSAR10g [W/kg]	0.622	0.638
Power Drift [dB]	-0.02	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		85.2
Dist 3dB Peak [mm]		13.0


Interpolated SAR [W/kg]
1.47
0

System Performance Check Data (1750MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D1750V2, SPEAG	10.0 x 10.0 x 3.0	Dipole

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 [℃]	Liquid Temperature [℃]
Flat, HSL		D1750	CW, 0--	1750.0, 50	8.67	1.35	40.4	22.5	21.5

Hardware Setup

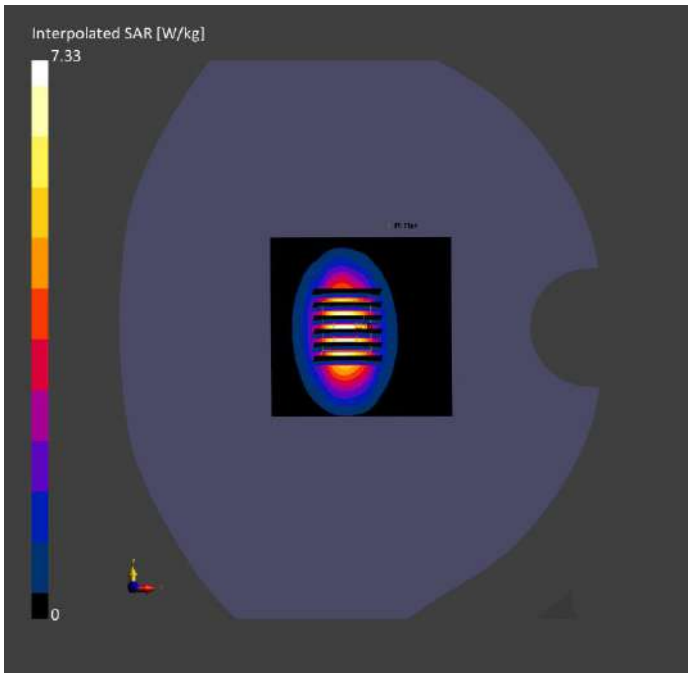
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-07-25	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

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	2024-07-25	2024-07-25
psSAR1g [W/kg]	3.29	3.68
psSAR10g [W/kg]	1.82	1.95
Power Drift [dB]	-0.03	-0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		82.1
Dist 3dB Peak [mm]		9.1


Interpolated SAR [W/kg]
7.33
0

System Performance Check Data (1950MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D1950V2, SPEAG	10.0 x 10.0 x 3.0	Dipole

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 [℃]	Liquid Temperature [℃]
Flat, HSL		D1950	CW, 0--	1950.0, 50	8.33	1.44	38.6	22.3	21.7

Hardware Setup

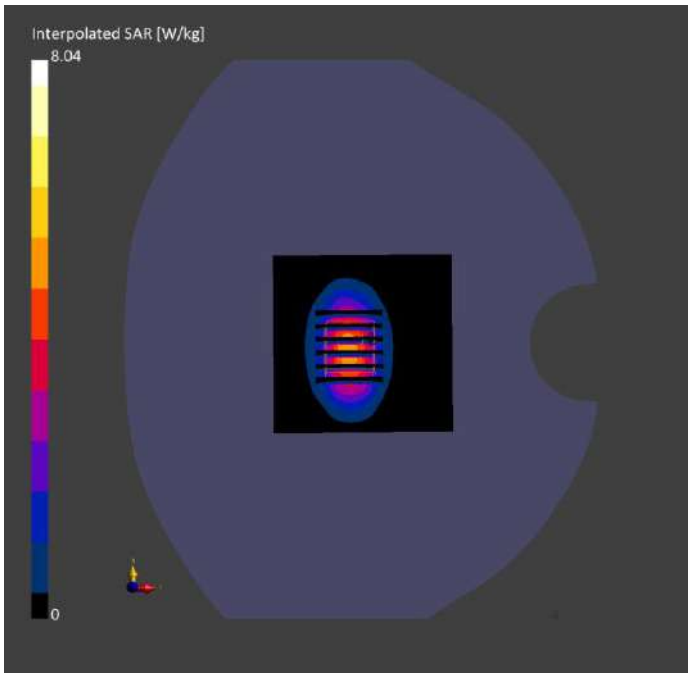
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-07-26	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

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	2024-07-26	2024-07-26
psSAR1g [W/kg]	3.96	4.18
psSAR10g [W/kg]	1.99	2.17
Power Drift [dB]	-0.04	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.2
Dist 3dB Peak [mm]		9.2


Interpolated SAR [W/kg]
8.04
0

System Performance Check Data (1950MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D1950V2, SPEAG	10.0 x 10.0 x 3.0	Dipole

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 [℃]	Liquid Temperature [℃]
Flat, HSL		D1950	CW, 0--	1950.0, 50	8.33	1.38	39.0	22.6	21.3

Hardware Setup

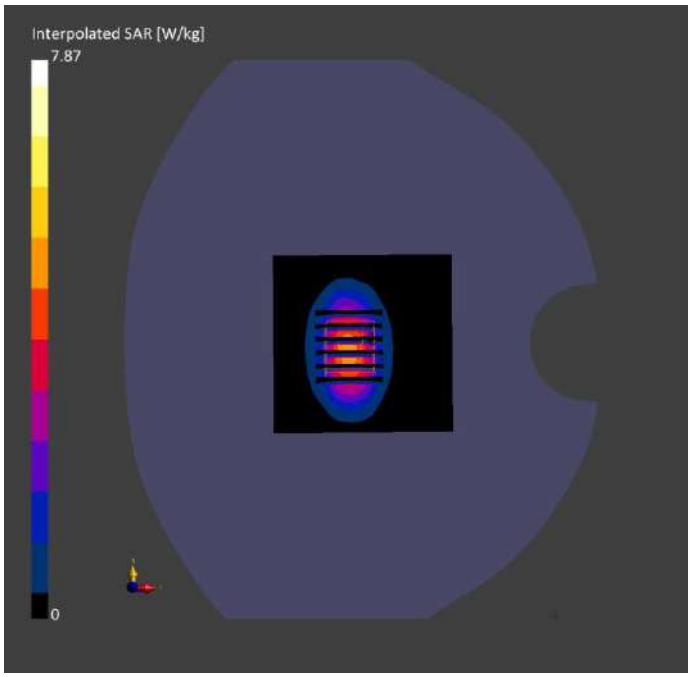
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-07-13	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

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	2024-07-13	2024-07-13
psSAR1g [W/kg]	4.02	4.25
psSAR10g [W/kg]	2.06	2.20
Power Drift [dB]	0.02	-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


Interpolated SAR [W/kg]
7.87
0

System Performance Check Data (2450MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D2450V2, SPEAG	40.0 x 8.0 x 8.0	Dipole

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 [℃]	Liquid Temperature [℃]
Flat, HSL		D2450	CW, 0--	2450.0, 50	7.75	1.77	38.9	22.8	21.1

Hardware Setup

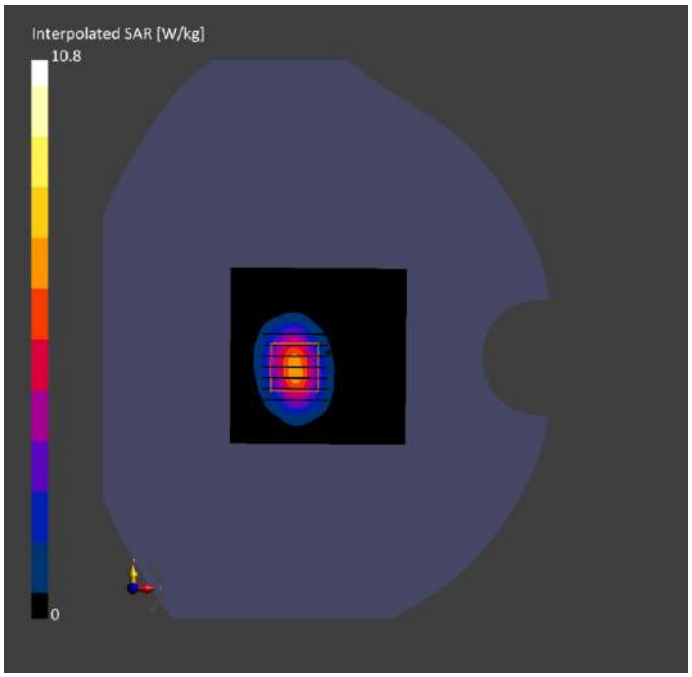
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-07-27	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

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	2024-07-27	2024-07-27
psSAR1g [W/kg]	5.25	5.47
psSAR10g [W/kg]	2.23	2.56
Power Drift [dB]	-0.02	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.1
Dist 3dB Peak [mm]		9.2


Interpolated SAR [W/kg]
10.8
0

System Performance Check Data (2600MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
CD2600V3, SPEAG	10.0 x 10.0 x 3.0	Dipole

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 [℃]	Liquid Temperature [℃]
Flat, HSL		CD2600V3	CW, 0--	2600.0, 50	7.59	1.98	39.3	22.8	21.1

Hardware Setup

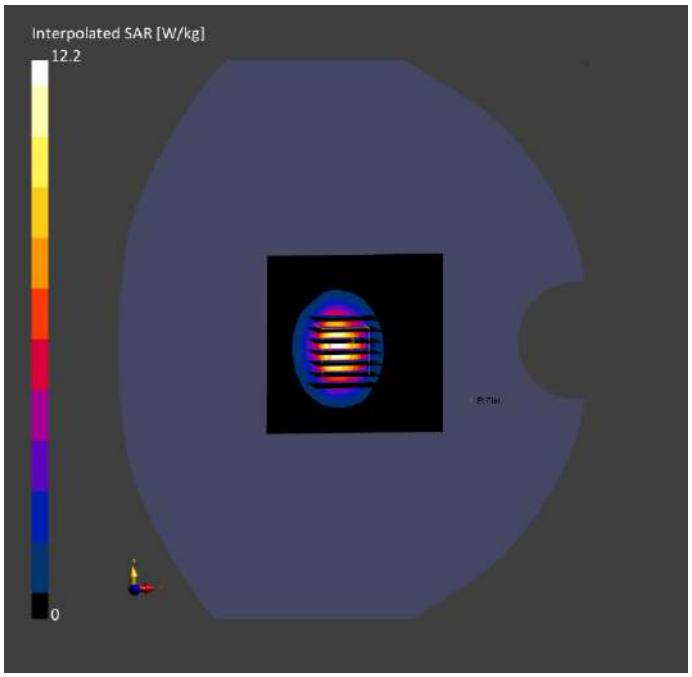
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-07-27	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

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	2024-07-27	2024-07-27
psSAR1g [W/kg]	5.51	5.67
psSAR10g [W/kg]	2.39	2.52
Power Drift [dB]	0.06	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		79.6
Dist 3dB Peak [mm]		9.1


Interpolated SAR [W/kg]
12.2
0

System Performance Check Data (2600MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
CD2600V3, SPEAG	10.0 x 10.0 x 3.0	Dipole

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 [℃]	Liquid Temperature [℃]
Flat, HSL		CD2600V3	CW, 0--	2600.0, 50	7.59	1.99	38.7	22.2	21.8

Hardware Setup

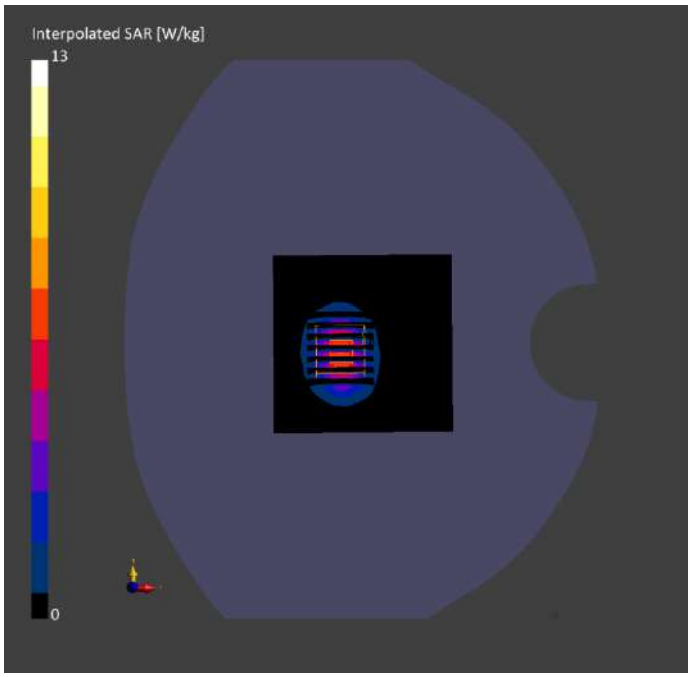
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-07-28	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

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	2024-07-28	2024-07-28
psSAR1g [W/kg]	5.49	5.55
psSAR10g [W/kg]	2.41	2.46
Power Drift [dB]	0.07	-0.04
Power Scaling Scaling Factor [dB]	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]		76.6
Dist 3dB Peak [mm]		8.8


Interpolated SAR [W/kg]
13
0

System Performance Check Data (5250MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D5GHZV2, SPEAG	10.0 x 10.0 x 3.0	Dipole

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 [℃]	Liquid Temperature [℃]
Flat, HSL		D5GHz	CW, 0--	5250.0, 30	5.50	4.61	36.2	22.3	21.3

Hardware Setup

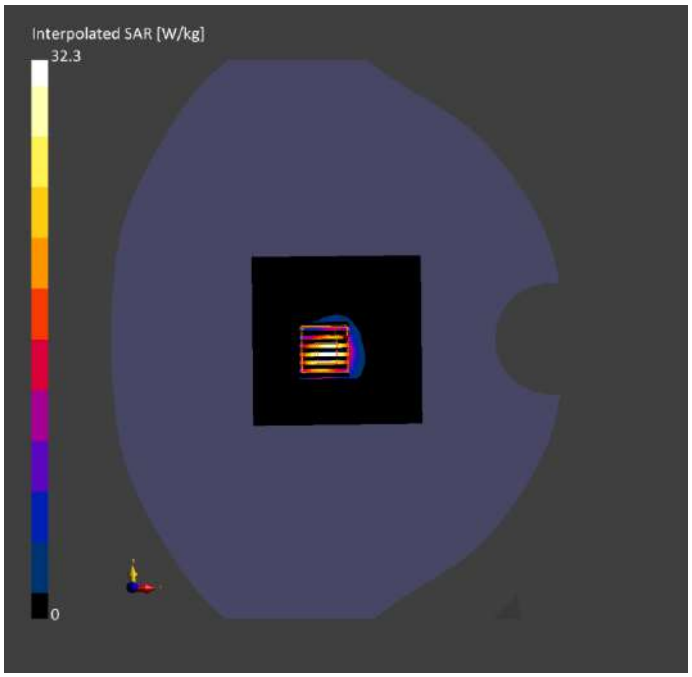
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-07-29	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

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	2024-07-29	2024-07-29
psSAR1g [W/kg]	7.54	7.92
psSAR10g [W/kg]	2.06	2.21
Power Drift [dB]	-0.04	0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		64.3
Dist 3dB Peak [mm]		7.6


Interpolated SAR [W/kg]
32.3
0

System Performance Check Data (5600MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D5GHZV2, SPEAG	10.0 x 10.0 x 3.0	Dipole

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 [℃]	Liquid Temperature [℃]
Flat, HSL		D5GHz	CW, 0--	5600.0, 60	5.00	4.98	35.4	22.3	21.3

Hardware Setup

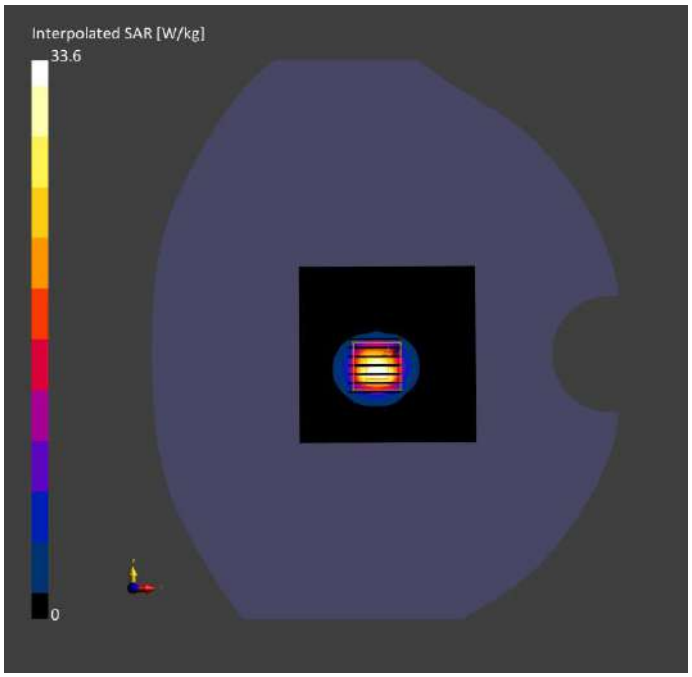
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-07-29	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

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	2024-07-29	2024-07-29
psSAR1g [W/kg]	7.62	8.28
psSAR10g [W/kg]	2.25	2.35
Power Drift [dB]	0.01	0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		61.3
Dist 3dB Peak [mm]		7.5


Interpolated SAR [W/kg]
33.6
0

System Performance Check Data (5750MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D5GHZV2, SPEAG	10.0 x 10.0 x 3.0	Dipole

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 [℃]	Liquid Temperature [℃]
Flat, HSL		D5GHz	CW, 0--	5750.0, 80	5.04	5.22	34.8	22.2	21.8

Hardware Setup

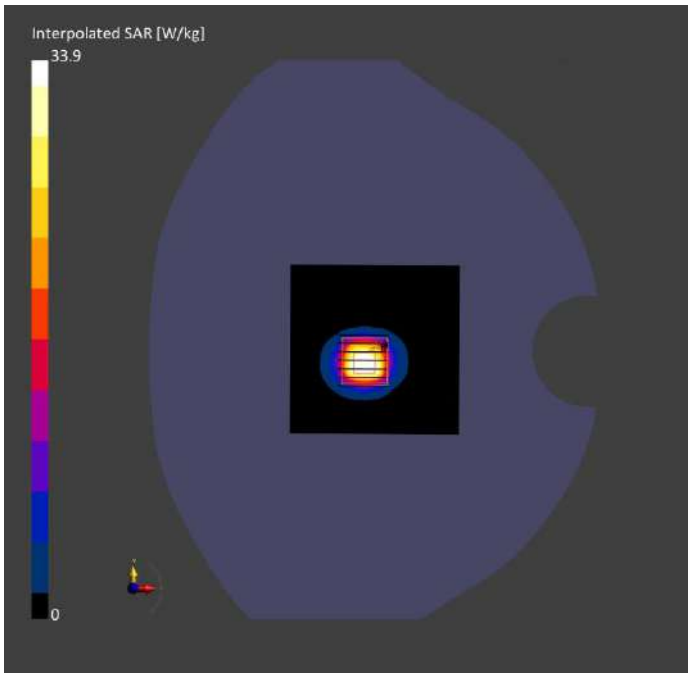
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-07-28	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

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	2024-07-28	2024-07-28
psSAR1g [W/kg]	7.89	7.79
psSAR10g [W/kg]	2.15	2.13
Power Drift [dB]	-0.06	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		61.4
Dist 3dB Peak [mm]		7.9


Interpolated SAR [W/kg]
33.9
0

ANNEX C TEST DATA

Meas.1 Right Head with Cheek on Middle Channel in GPRS850 4slots mode with Antenna 2

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
2AIZN-YYS-X6882	162.0 x 73.0 x 8.0	Phone

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 [℃]	Liquid Temperature [℃]
RightHead, HSL	CHEEK, 0.00	GSM 850	GSM, 10024-DAC	836.6, 190	9.99	0.89	42.5	22.6	21.3

Hardware Setup

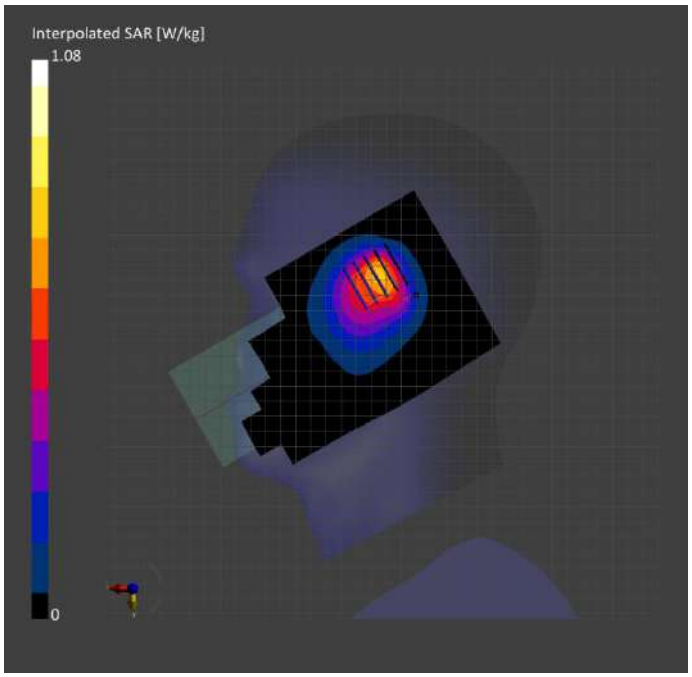
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-07-12	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	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	2024-07-12	2024-07-12
psSAR1g [W/kg]	0.642	0.620
psSAR10g [W/kg]	0.417	0.400
Power Drift [dB]	-0.16	0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		52.7
Dist 3dB Peak [mm]		11.5


Interpolated SAR [W/kg]
1.08
0

Meas.2 Body Plane with Back Side 10mm on Middle Channel in GPRS850 4Slots mode with Antenna 2

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
2AIZN-YYS-X6882	162.0 x 73.0 x 8.0	Phone

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 [℃]	Liquid Temperature [℃]
Flat, HSL	BACK, 10.00	GSM 850	GSM, 10024-DAC	836.6, 190	9.99	0.89	42.5	22.6	21.3

Hardware Setup

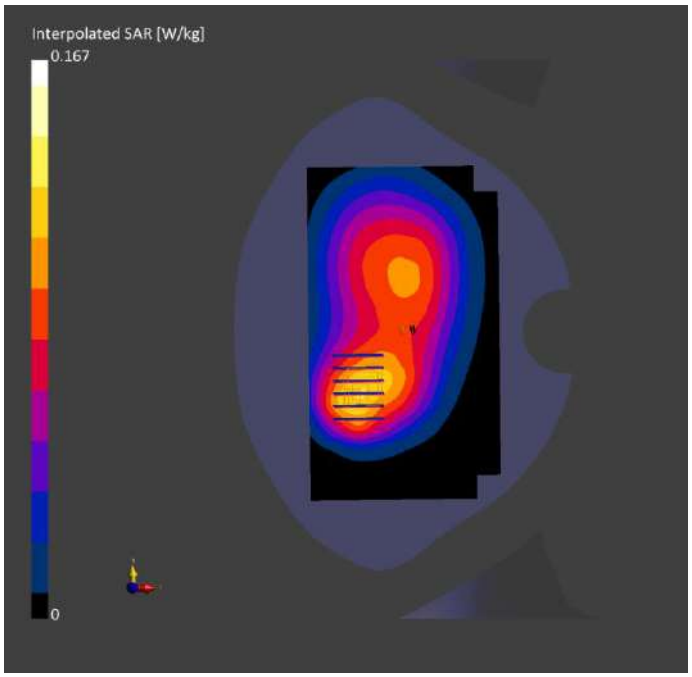
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-07-12	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

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	2024-07-12	2024-07-12
psSAR1g [W/kg]	0.110	0.110
psSAR10g [W/kg]	0.076	0.076
Power Drift [dB]	0.02	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		63.9
Dist 3dB Peak [mm]		30.4


Interpolated SAR [W/kg]
0.167
0

Meas.3 Right Head with Tilt on Middle Channel in GPRS1900 3slots mode with Antenna 2

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
2AIZN-YYS-X6882	162.0 x 73.0 x 8.0	Phone

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 [℃]	Liquid Temperature [℃]
RightHead, HSL	TILT, 0.00	PCS 1900	GSM, 10028-DAC	1880.0, 661	8.33	1.41	39.2	22.3	21.7

Hardware Setup

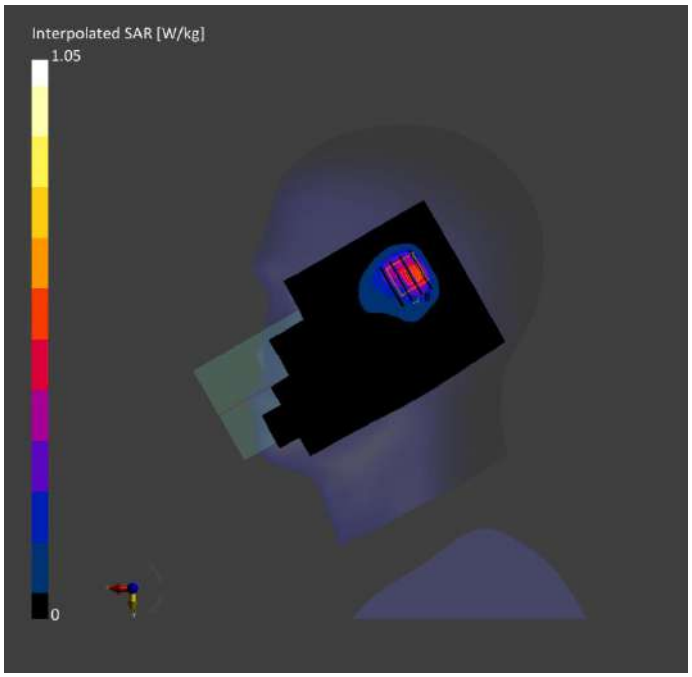
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-07-26	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	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	2024-07-26	2024-07-26
psSAR1g [W/kg]	0.448	0.568
psSAR10g [W/kg]	0.232	0.278
Power Drift [dB]	0.00	-0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		55.5
Dist 3dB Peak [mm]		8.0


Interpolated SAR [W/kg]
1.05
0

Meas.4 Body Plane with Top Edge 10mm on Middle Channel in GPRS1900 3Slots mode with Antenna 2

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
2AIZN-YYS-X6882	162.0 x 73.0 x 8.0	Phone

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 [℃]	Liquid Temperature [℃]
Flat, HSL	EDGE TOP, 10.00	PCS 1900	GSM, 10028-DAC	1850.2, 512	8.33	1.39	39.7	22.3	21.7

Hardware Setup

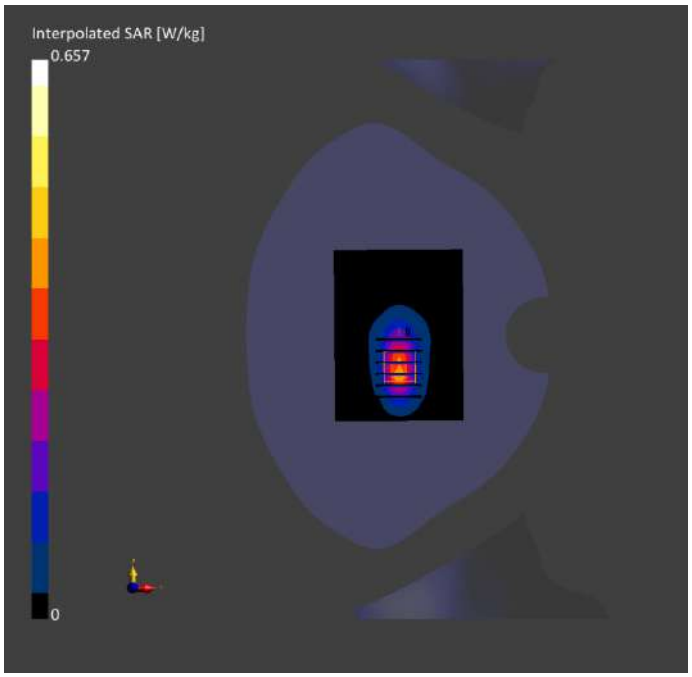
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-07-26	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

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	2024-07-26	2024-07-26
psSAR1g [W/kg]	0.334	0.375
psSAR10g [W/kg]	0.171	0.193
Power Drift [dB]	0.02	-0.09
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		56.9
Dist 3dB Peak [mm]		9.6


Interpolated SAR [W/kg]
0.657
0

Meas.5 Right Head with Tilt on Middle Channel in WCDMA Band2 mode with Antenna 2

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
2AIZN-YYS-X6882	162.0 x 73.0 x 8.0	Phone

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 [℃]	Liquid Temperature [℃]
RightHead, HSL	TILT, 0.00	Band 2	WCDMA, 10011-CAC	1880.0, 9400	8.33	1.41	39.2	22.3	21.7

Hardware Setup

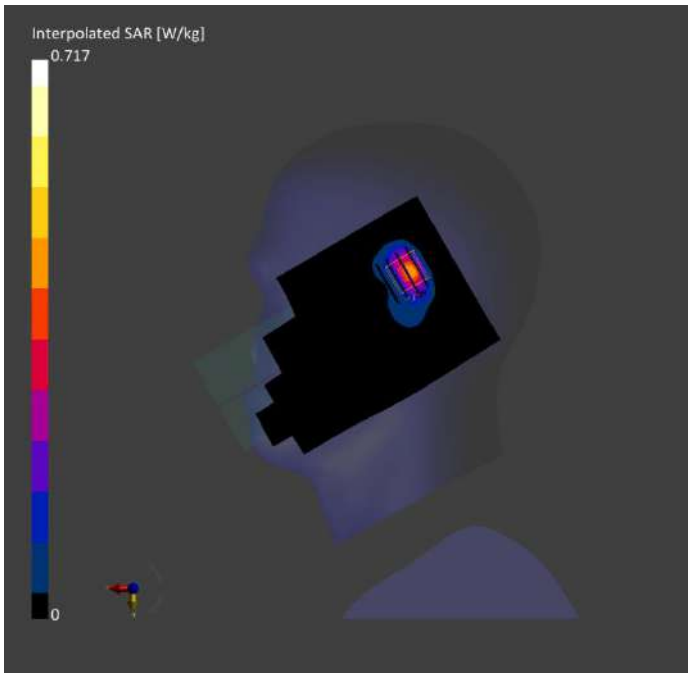
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-07-26	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	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	2024-07-26	2024-07-26
psSAR1g [W/kg]	0.339	0.372
psSAR10g [W/kg]	0.155	0.174
Power Drift [dB]	-0.02	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		52.9
Dist 3dB Peak [mm]		6.4


Interpolated SAR [W/kg]
0.717
0

Meas.6 Body Plane with Top Edge 10mm on Middle Channel in WCDMA Band2 mode with Antenna 2

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
2AIZN-YYS-X6882	162.0 x 73.0 x 8.0	Phone

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 [℃]	Liquid Temperature [℃]
Flat, HSL	EDGE TOP, 10.00	Band 2	WCDMA, 10011-CAC	1880.0, 9400	8.33	1.41	39.2	22.3	21.7

Hardware Setup

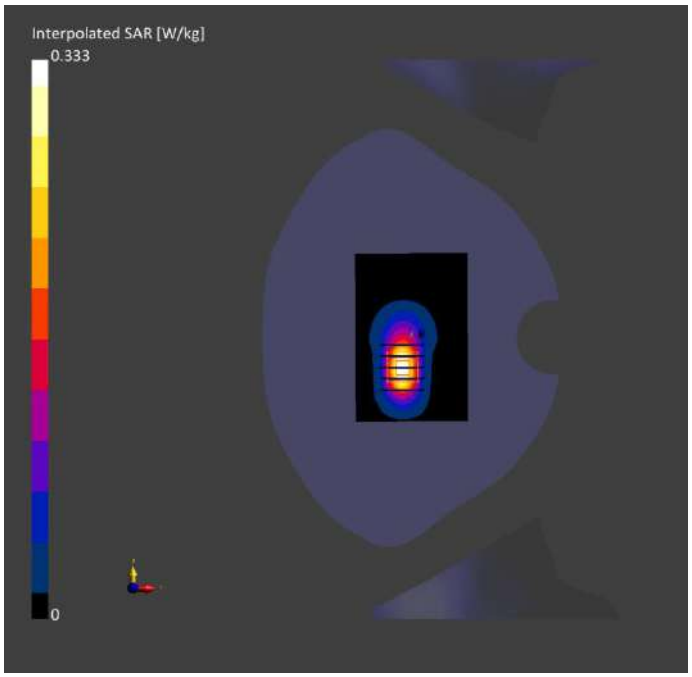
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-07-26	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	8.0 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	2024-07-26	2024-07-26
psSAR1g [W/kg]	0.180	0.187
psSAR10g [W/kg]	0.092	0.096
Power Drift [dB]	-0.00	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		56.7
Dist 3dB Peak [mm]		9.6


Interpolated SAR [W/kg]
0.333
0

Meas.7 Right Head with Tilt on Middle Channel in WCDMA Band4 mode with Antenna 2

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
2AIZN-YYS-X6882	162.0 x 73.0 x 8.0	Phone

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 [℃]	Liquid Temperature [℃]
RightHead, HSL	TILT, 0.00	Band 4	WCDMA, 10011-CAC	1712.4, 1312	8.67	1.32	41.1	22.5	21.5

Hardware Setup

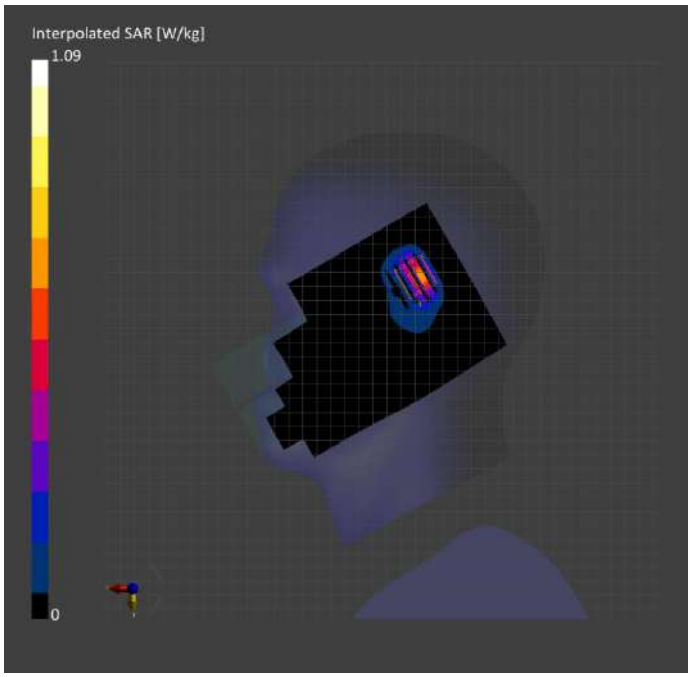
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-07-25	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	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	2024-07-25	2024-07-25
psSAR1g [W/kg]	0.514	0.562
psSAR10g [W/kg]	0.240	0.264
Power Drift [dB]	0.02	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		52.9
Dist 3dB Peak [mm]		6.4


Interpolated SAR [W/kg]
1.09
0

Meas.8 Body Plane with Top Edge 10mm on Middle Channel in WCDMA Band4 mode with Antenna 2

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
2AIZN-YYS-X6882	162.0 x 73.0 x 8.0	Phone

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 [℃]	Liquid Temperature [℃]
Flat, HSL	EDGE TOP, 10.00	Band 4	WCDMA, 10011-CAC	1712.4, 1312	8.67	1.32	41.1	22.5	21.5

Hardware Setup

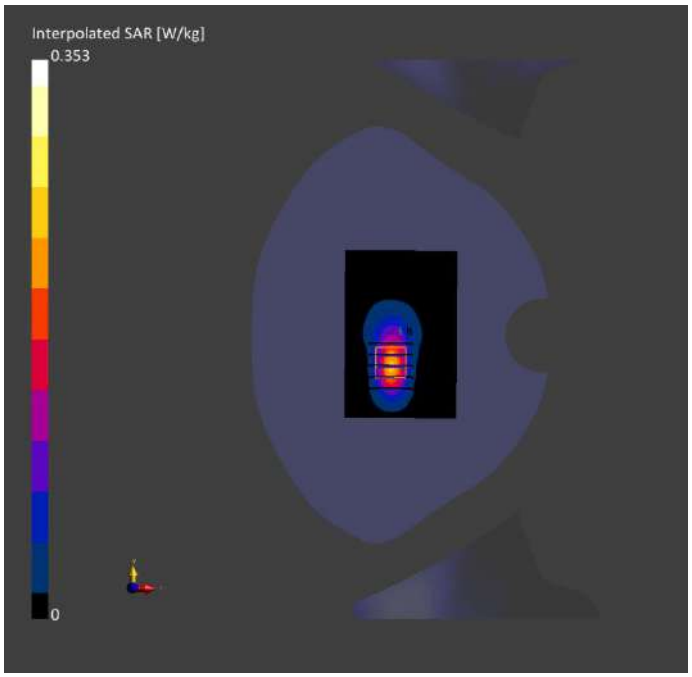
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-07-25	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	8.0 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	2024-07-25	2024-07-25
psSAR1g [W/kg]	0.192	0.201
psSAR10g [W/kg]	0.098	0.104
Power Drift [dB]	0.00	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		57.7
Dist 3dB Peak [mm]		9.3


Interpolated SAR [W/kg]
0.353
0

Meas.9 Right Head with Cheek on Middle Channel in WCDMA Band5 mode with Antenna 2

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
2AIZN-YYS-X6882	162.0 x 73.0 x 8.0	Phone

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 [℃]	Liquid Temperature [℃]
RightHead, HSL	CHEEK, 0.00	Band 5	WCDMA, 10011-CAC	846.6, 4233	9.99	0.90	42.2	22.6	21.3

Hardware Setup

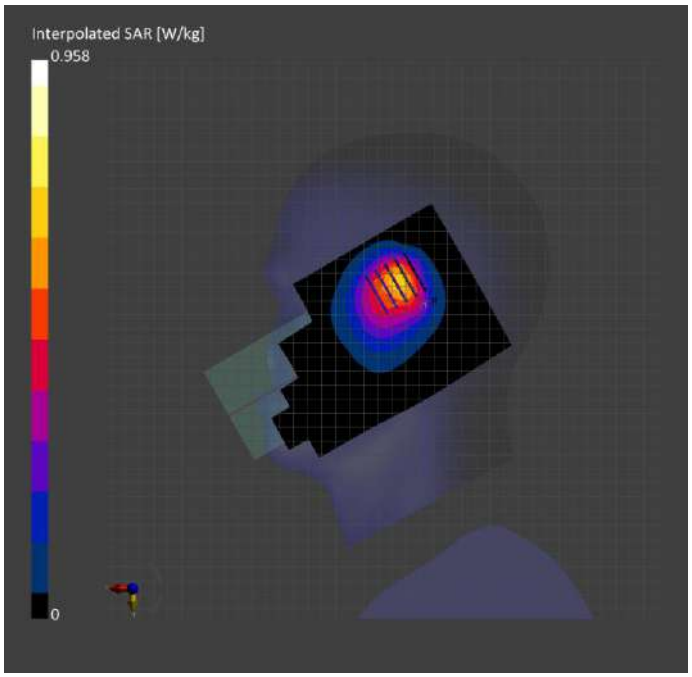
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-07-12	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	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	2024-07-12	2024-07-12
psSAR1g [W/kg]	0.595	0.582
psSAR10g [W/kg]	0.387	0.379
Power Drift [dB]	-0.01	-0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		58.1
Dist 3dB Peak [mm]		12.5


Interpolated SAR [W/kg]
0.958
0

Meas.10 Body Plane with Back Side 10mm on Middle Channel in WCDMA Band5 mode with Antenna 2

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
2AIZN-YYS-X6882	162.0 x 73.0 x 8.0	Phone

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 [℃]	Liquid Temperature [℃]
Flat, HSL	BACK, 5.00	Band 5	WCDMA, 10011-CAC	846.6, 4233	9.99	0.90	42.2	22.6	21.3

Hardware Setup

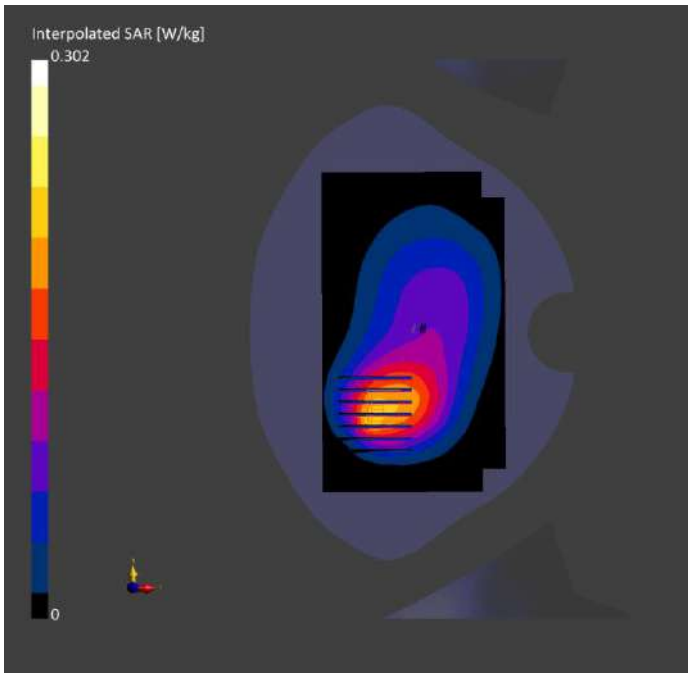
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-07-12	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

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	2024-07-12	2024-07-12
psSAR1g [W/kg]	0.192	0.190
psSAR10g [W/kg]	0.130	0.127
Power Drift [dB]	-0.03	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		62.5
Dist 3dB Peak [mm]		12.2


Interpolated SAR [W/kg]
0.302
0

Meas.11 Right Head with Tilt on High Channel in LTE Band7 mode with Antenna 2

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
2AIZN-YYS-X6882	162.0 x 73.0 x 8.0	Phone

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 [℃]	Liquid Temperature [℃]
RightHead, HSL	TILT, 0.00	Band 7	LTE-FDD, 10169-CAF	2560.0, 21350	7.59	1.94	38.9	22.2	21.8

Hardware Setup

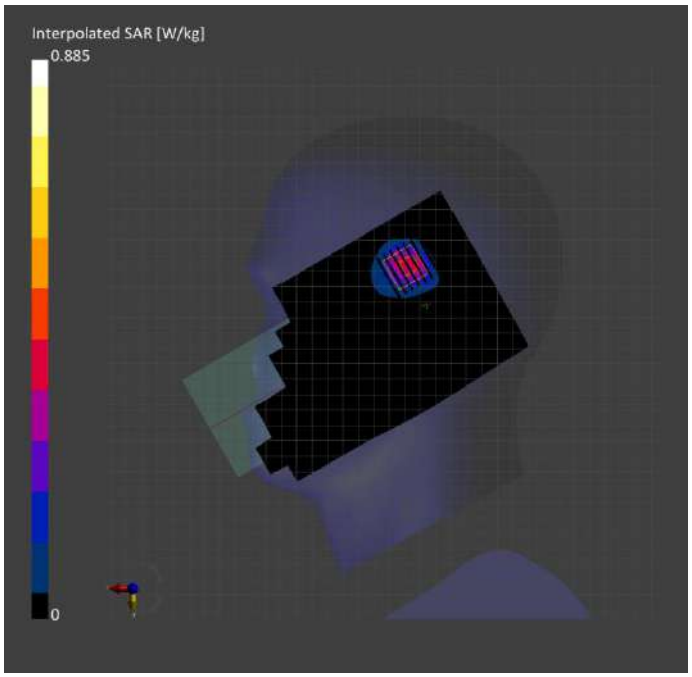
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-07-28	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

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	2024-07-28	2024-07-28
psSAR1g [W/kg]	0.338	0.388
psSAR10g [W/kg]	0.163	0.168
Power Drift [dB]	0.02	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		40.4
Dist 3dB Peak [mm]		7.6


Interpolated SAR [W/kg]
0.885
0

Meas.12 Body Plane with Top Edge 10mm on Middle Channel in LTE Band7 mode with Antenna 2

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
2AIZN-YYS-X6882	162.0 x 73.0 x 8.0	Phone

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 [℃]	Liquid Temperature [℃]
Flat, HSL	EDGE TOP, 10.00	Band 7	LTE-FDD, 10169-CAF	2560.0, 21350	7.59	1.94	38.9	22.2	21.8

Hardware Setup

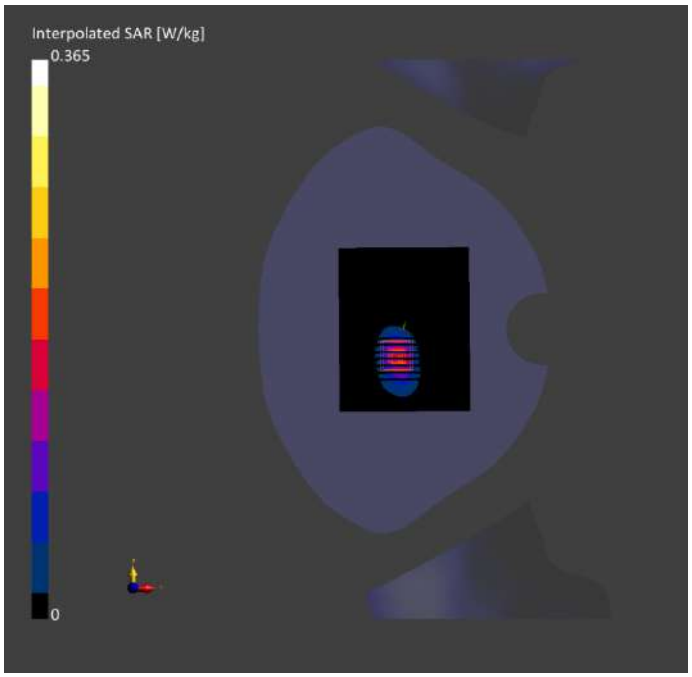
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-07-28	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 120.0	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	2024-07-28	2024-07-28
psSAR1g [W/kg]	0.149	0.168
psSAR10g [W/kg]	0.070	0.067
Power Drift [dB]	0.01	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		48.8
Dist 3dB Peak [mm]		4.0


Interpolated SAR [W/kg]
0.365
0

Meas.13 Right Head with Cheek on Middle Channel in LTE Band12 mode with Antenna 2

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
2AIZN-YYS-X6882	162.0 x 73.0 x 8.0	Phone

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 [℃]	Liquid Temperature [℃]
RightHead, HSL	CHEEK, 0.00	Band 12	LTE-FDD, 10175-CAH	707.5, 23095	10.31	0.89	42.3	22.5	21.4

Hardware Setup

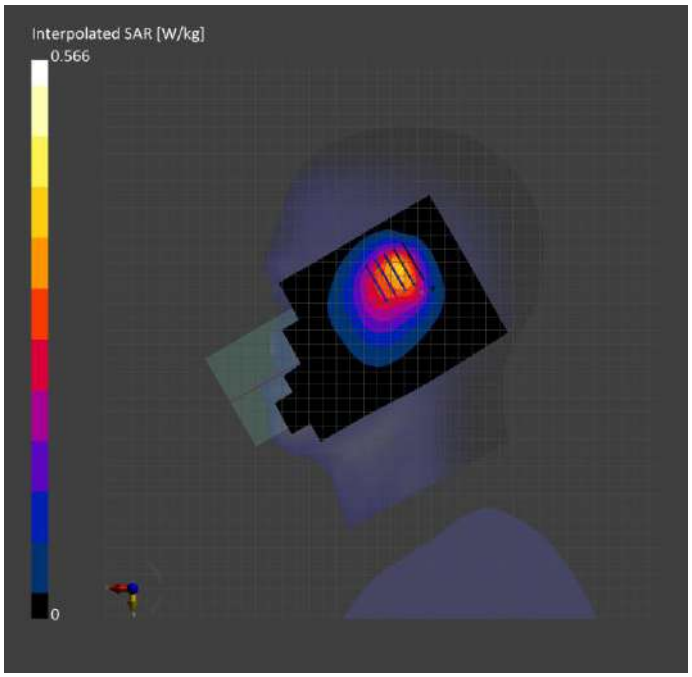
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-30	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	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	2024-06-30	2024-06-30
psSAR1g [W/kg]	0.345	0.341
psSAR10g [W/kg]	0.229	0.224
Power Drift [dB]	0.01	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		58.1
Dist 3dB Peak [mm]		16.0


Interpolated SAR [W/kg]
0.566
0

Meas.14 Body Plane with Back Side 10mm on Middle Channel in LTE Band12 mode with Antenna 0

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
2AIZN-YYS-X6882	162.0 x 73.0 x 8.0	Phone

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 [℃]	Liquid Temperature [℃]
Flat, HSL	BACK, 10.00	Band 12	LTE-FDD, 10175-CAH	707.5, 23095	10.31	0.89	42.3	22.5	21.4

Hardware Setup

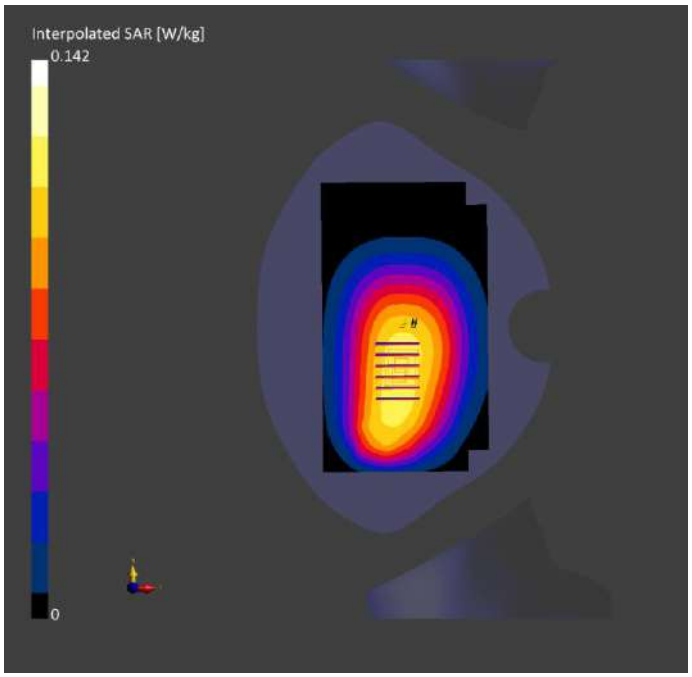
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-30	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

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	2024-06-30	2024-06-30
psSAR1g [W/kg]	0.102	0.108
psSAR10g [W/kg]	0.074	0.084
Power Drift [dB]	-0.01	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		73.7
Dist 3dB Peak [mm]		> 16.0


Interpolated SAR [W/kg]
0.142
0

Meas.15 Right Head with Cheek on Middle Channel in LTE Band13 mode with Antenna 2

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
2AIZN-YYS-X6882	162.0 x 73.0 x 8.0	Phone

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 [℃]	Liquid Temperature [℃]
RightHead, HSL	CHEEK, 0.00	Band 13	LTE-FDD, 10175-CAH	782.0, 23230	10.31	0.912	42.0	22.5	21.4

Hardware Setup

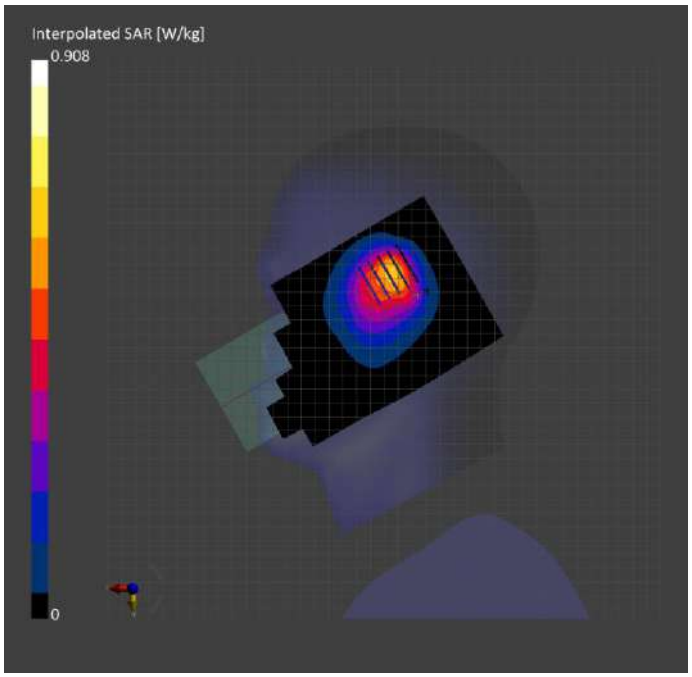
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-30	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	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	2024-06-30	2024-06-30
psSAR1g [W/kg]	0.555	0.548
psSAR10g [W/kg]	0.365	0.360
Power Drift [dB]	-0.01	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		57.2
Dist 3dB Peak [mm]		14.7


Interpolated SAR [W/kg]
0.908
0

Meas.16 Body Plane with Back Side 10mm on Middle Channel in LTE Band13 mode with Antenna 2

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
2AIZN-YYS-X6882	162.0 x 73.0 x 8.0	Phone

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 [℃]	Liquid Temperature [℃]
Flat, HSL	BACK, 10.00	Band 13	LTE-FDD, 10175-CAH	782.0, 23230	10.31	0.912	42.0	22.5	21.4

Hardware Setup

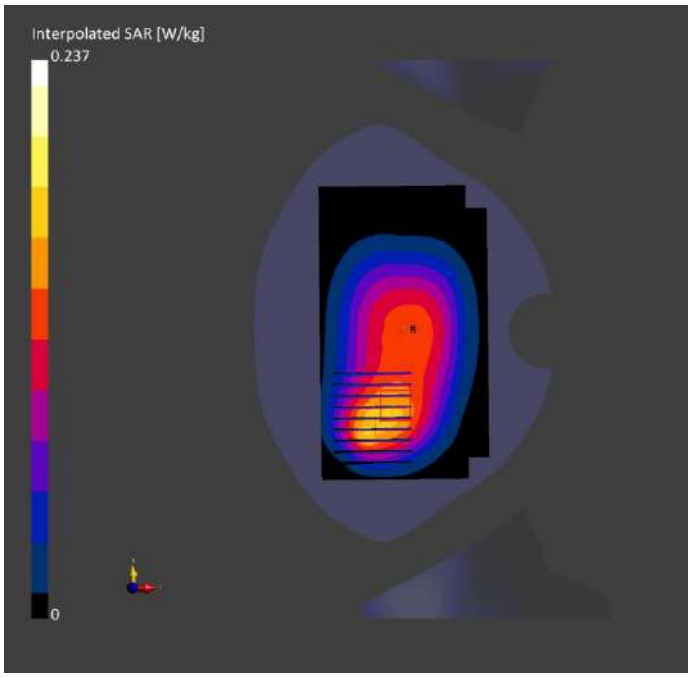
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-30	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

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	2024-06-30	2024-06-30
psSAR1g [W/kg]	0.154	0.147
psSAR10g [W/kg]	0.105	0.104
Power Drift [dB]	-0.01	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		58.3
Dist 3dB Peak [mm]		12.2


Interpolated SAR [W/kg]
0.237
0

Meas.17 Right Head with Tilt on Middle Channel in LTE Band25 mode with Antenna 2

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
2AIZN-YYS-X6882	162.0 x 73.0 x 8.0	Phone

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 [℃]	Liquid Temperature [℃]
RightHead, HSL	TILT, 0.00	Band 25	LTE-FDD, 10169-CAF	1882.5, 26365	8.33	1.37	39.2	22.6	21.3

Hardware Setup

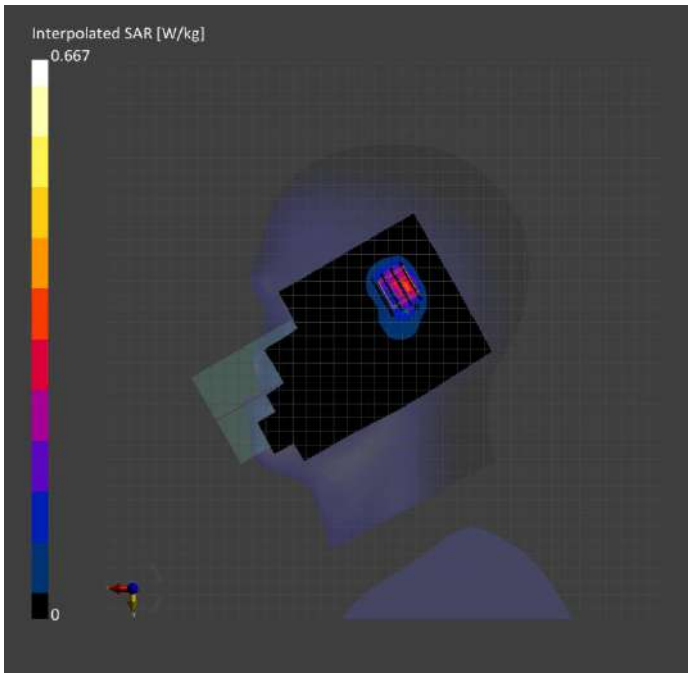
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-07-13	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	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	2024-07-13	2024-07-13
psSAR1g [W/kg]	0.266	0.363
psSAR10g [W/kg]	0.135	0.172
Power Drift [dB]	0.04	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		56.5
Dist 3dB Peak [mm]		8.0


Interpolated SAR [W/kg]
0.667
0

Meas.18 Body Plane with Top Edge 10mm on Low Channel in LTE Band25 mode with Antenna 2

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
2AIZN-YYS-X6882	162.0 x 73.0 x 8.0	Phone

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 [℃]	Liquid Temperature [℃]
Flat, HSL	EDGE TOP, 10.00	Band 25	LTE-FDD, 10169-CAF	1860.0, 26140	8.33	1.37	39.2	22.6	21.3

Hardware Setup

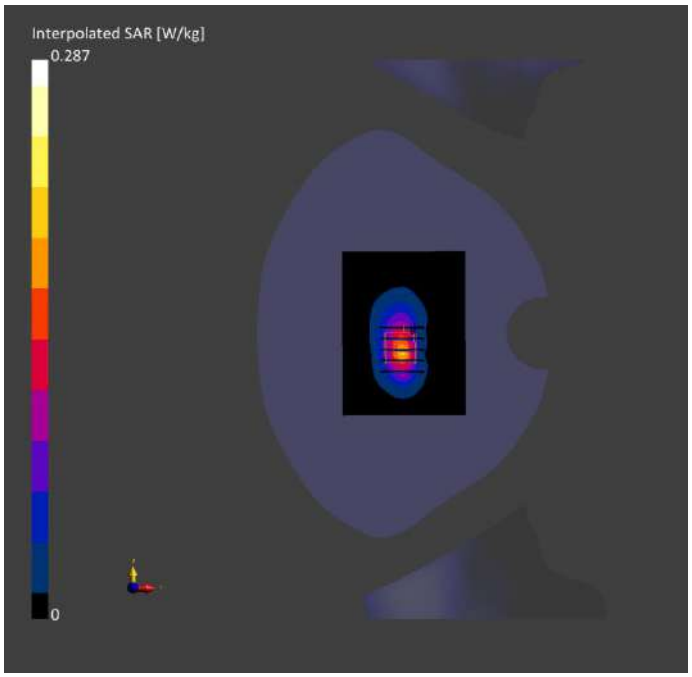
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-07-13	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

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	2024-07-13	2024-07-13
psSAR1g [W/kg]	0.152	0.167
psSAR10g [W/kg]	0.077	0.087
Power Drift [dB]	0.02	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		58.1
Dist 3dB Peak [mm]		9.6


Interpolated SAR [W/kg]
0.287
0

Meas.19 Right Head with Cheek on Middle Channel in LTE Band26 mode with Antenna 2

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
2AIZN-YYS-X6882	162.0 x 73.0 x 8.0	Phone

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 [℃]	Liquid Temperature [℃]
RightHead, HSL	CHEEK, 0.00	Band 26	LTE-FDD, 10181-CAF	831.5, 26865	9.99	0.90	42.2	22.6	21.3

Hardware Setup

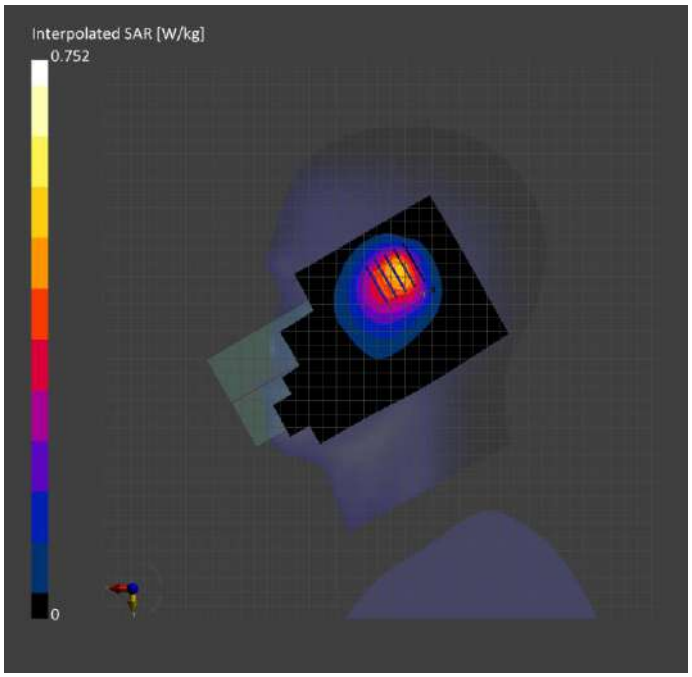
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-07-13	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	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	2024-07-13	2024-07-13
psSAR1g [W/kg]	0.460	0.445
psSAR10g [W/kg]	0.299	0.291
Power Drift [dB]	-0.01	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		56.2
Dist 3dB Peak [mm]		10.1


Interpolated SAR [W/kg]
0.752
0

Meas.20 Body Plane with Back Side 10mm on Middle Channel in LTE Band26 mode with Antenna 2

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
2AIZN-YYS-X6882	162.0 x 73.0 x 8.0	Phone

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 [℃]	Liquid Temperature [℃]
Flat, HSL	BACK, 10.00	Band 26	LTE-FDD, 10181-CAF	831.5, 26865	9.99	0.90	42.2	22.6	21.3

Hardware Setup

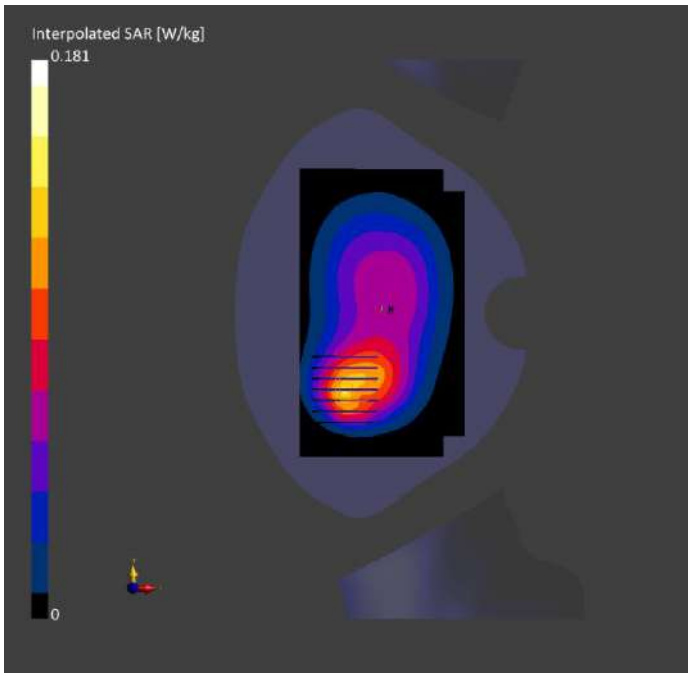
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-07-13	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

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	2024-07-13	2024-07-13
psSAR1g [W/kg]	0.116	0.113
psSAR10g [W/kg]	0.078	0.075
Power Drift [dB]	-0.02	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		61.3
Dist 3dB Peak [mm]		14.3


Interpolated SAR [W/kg]
0.181
0

Meas.21 Right Head with Tilt on Low Channel in LTE Band66 mode with Antenna 2

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
2AIZN-YYS-X6882	162.0 x 73.0 x 8.0	Phone

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 [℃]	Liquid Temperature [℃]
RightHead, HSL	TILT, 0.00	Band 66	LTE-FDD, 10169-CAF	1720.0, 132072	8.67	1.33	40.9	22.5	21.5

Hardware Setup

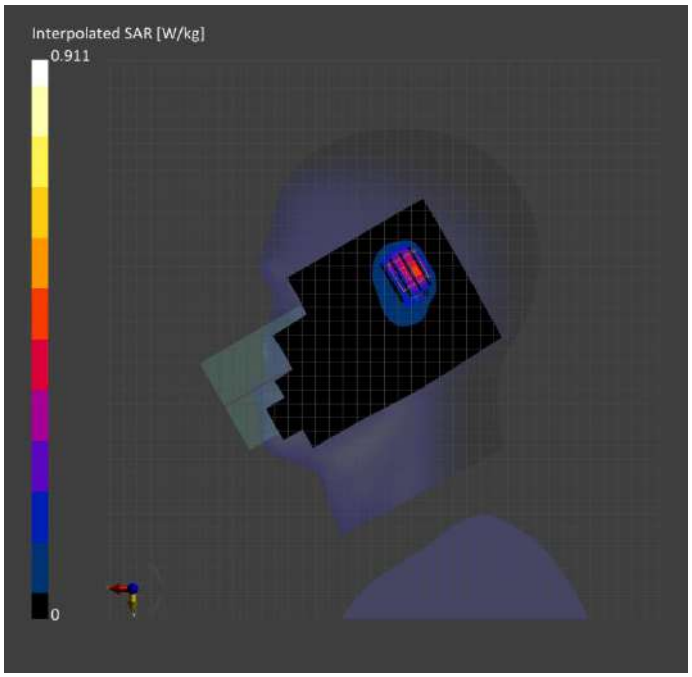
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-07-25	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	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	2024-07-25	2024-07-25
psSAR1g [W/kg]	0.362	0.490
psSAR10g [W/kg]	0.186	0.233
Power Drift [dB]	0.02	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		55.8
Dist 3dB Peak [mm]		8.0


Interpolated SAR [W/kg]
0.911
0

Meas.22 Body Plane with Top Edge 10mm on Low Channel in LTE Band66 mode with Antenna 2

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
2AIZN-YYS-X6882	162.0 x 73.0 x 8.0	Phone

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 [℃]	Liquid Temperature [℃]
Flat, HSL	EDGE TOP, 10.00	Band 66	LTE-FDD, 10169-CAF	1720.0, 132072	8.67	1.33	40.9	22.5	21.5

Hardware Setup

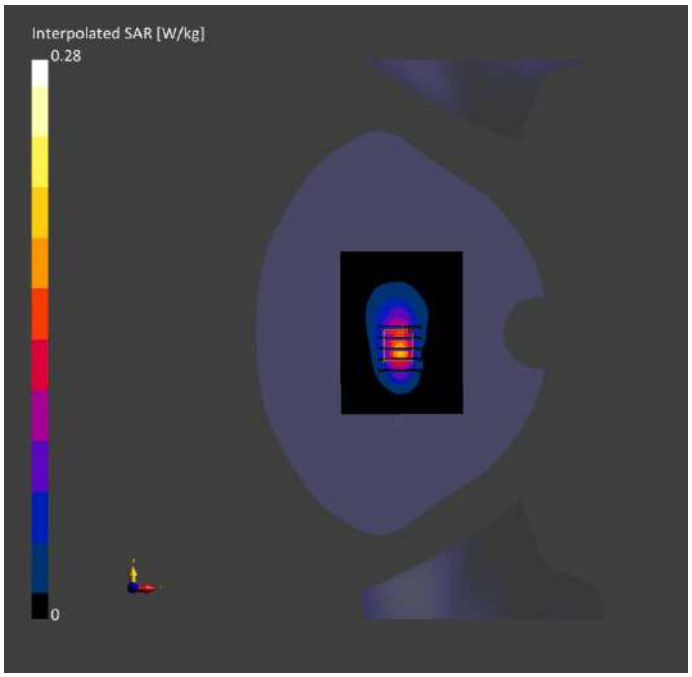
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-07-25	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

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	2024-07-25	2024-07-25
psSAR1g [W/kg]	0.150	0.164
psSAR10g [W/kg]	0.077	0.085
Power Drift [dB]	-0.00	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		58.9
Dist 3dB Peak [mm]		8.0


Interpolated SAR [W/kg]
0.28
0

Meas.23 Right Head with Tilt on Low Channel in LTE Band41 mode with Antenna 2

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
2AIZN-YYS-X6882	162.0 x 73.0 x 8.0	Phone

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 [℃]	Liquid Temperature [℃]
RightHead, HSL	TILT, 0.00	Band 41	LTE-TDD, 10172-CAH	2593.0, 40620	7.59	1.97	39.4	22.8	21.1

Hardware Setup

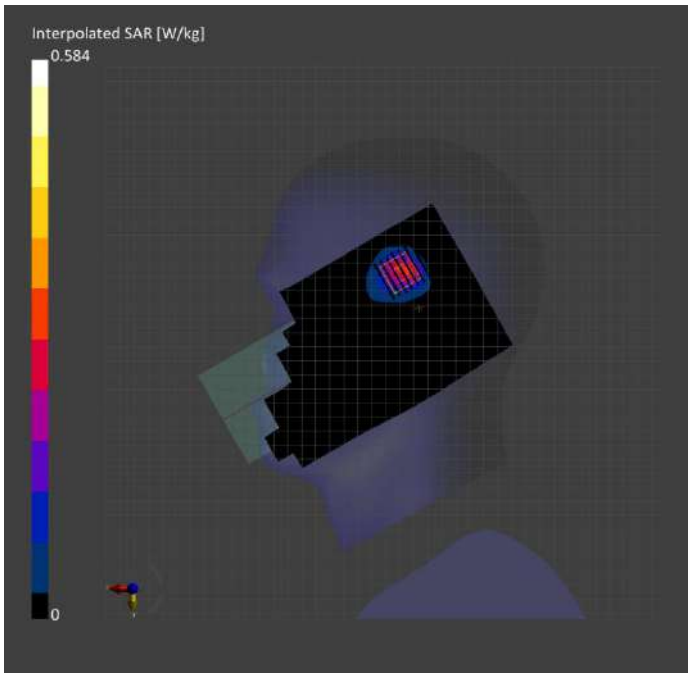
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-07-27	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

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	2024-07-27	2024-07-27
psSAR1g [W/kg]	0.234	0.259
psSAR10g [W/kg]	0.114	0.115
Power Drift [dB]	-0.01	-0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		40.8
Dist 3dB Peak [mm]		8.1


Interpolated SAR [W/kg]
0.584
0

Meas.24 Body Plane with Back Side 10mm on Low Channel in LTE Band41 mode with Antenna 2

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
2AIZN-YYS-X6882	162.0 x 73.0 x 8.0	Phone

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 [℃]	Liquid Temperature [℃]
Flat, HSL	BACK, 10.00	Band 41	LTE-TDD, 10172-CAH	2593.0, 40620	7.59	1.97	39.4	22.8	21.1

Hardware Setup

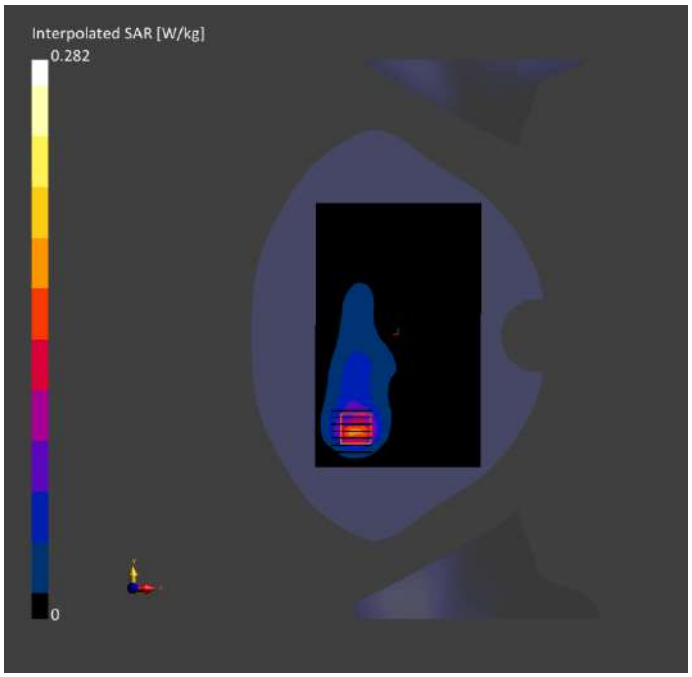
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-07-27	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

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	2024-07-27	2024-07-27
psSAR1g [W/kg]	0.133	0.137
psSAR10g [W/kg]	0.063	0.063
Power Drift [dB]	0.00	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		47.8
Dist 3dB Peak [mm]		9.5


Interpolated SAR [W/kg]
0.282
0

Meas.25 Left Head with Cheek on 6 Channel in IEEE802.11 b mode with Antenna 12

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
2AIZN-YYS-X6882	162.0 x 73.0 x 8.0	Phone

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 [℃]	Liquid Temperature [℃]
LeftHead, HSL	CHEEK, 0.00	WLAN 2.4GHz	WLAN, 10012-CAB	2437.0, 6	7.75	1.75	39.3	22.8	21.1

Hardware Setup

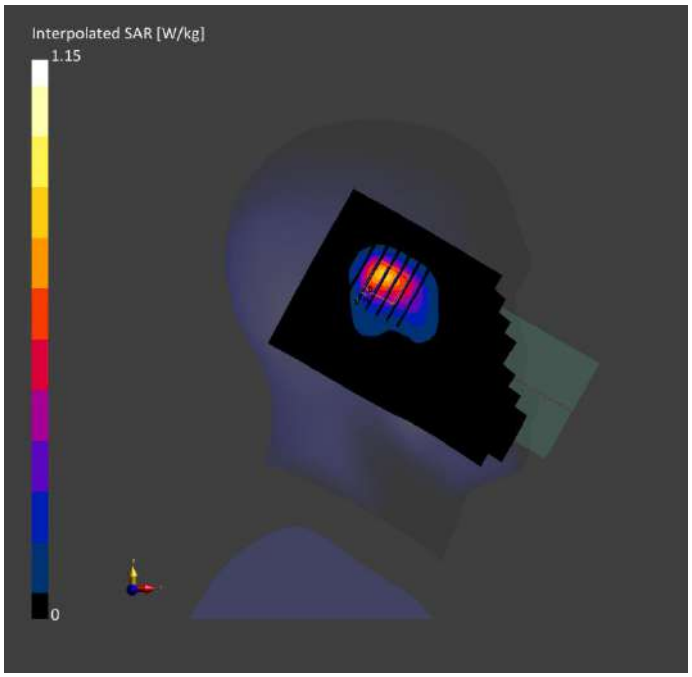
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-07-27	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	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	2024-07-27	2024-07-27
psSAR1g [W/kg]	0.645	0.634
psSAR10g [W/kg]	0.330	0.329
Power Drift [dB]	-0.08	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		56.3
Dist 3dB Peak [mm]		9.3


Interpolated SAR [W/kg]
1.15
0

Meas.26 Body Plane with Back Side 10mm on 6 Channel in IEEE802.11b mode with Antenna 12

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
2AIZN-YYS-X6882	162.0 x 73.0 x 8.0	Phone

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 [℃]	Liquid Temperature [℃]
Flat, HSL	BACK, 10.00	WLAN 2.4GHz	WLAN, 10012-CAB	2437.0, 6	7.75	1.75	39.3	22.8	21.1

Hardware Setup

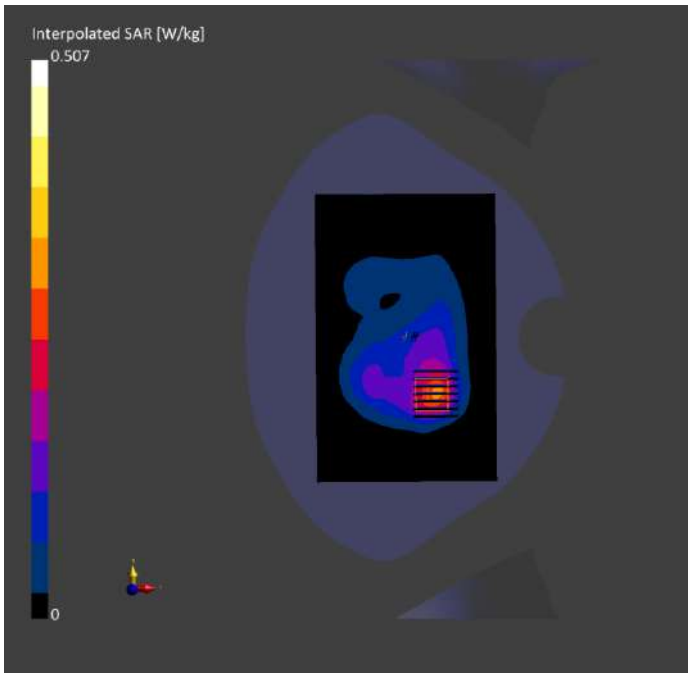
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-07-27	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

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	2024-07-27	2024-07-27
psSAR1g [W/kg]	0.250	0.259
psSAR10g [W/kg]	0.132	0.132
Power Drift [dB]	-0.02	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		48.1
Dist 3dB Peak [mm]		10.8


Interpolated SAR [W/kg]
0.507
0

Meas.27 Left Head with Tilt on 62 Channel in IEEE802.11n40 mode with Antenna 12

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
2AIZN-YYS-X6882	162.0 x 73.0 x 8.0	Phone

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 [℃]	Liquid Temperature [℃]
LeftHead, HSL	TILT, 0.00	WLAN 5GHz	WLAN, 10114-CAD	5310.0, 62	5.5	4.70	35.7	22.3	21.3

Hardware Setup

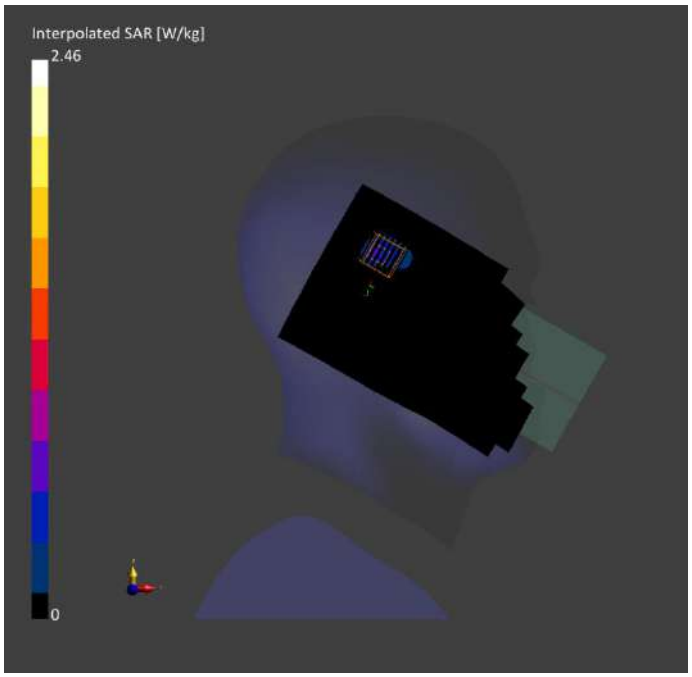
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-07-29	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	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	2024-07-29	2024-07-29
psSAR1g [W/kg]	0.462	0.645
psSAR10g [W/kg]	0.160	0.178
Power Drift [dB]	-0.18	-0.09
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		56.0
Dist 3dB Peak [mm]		4.0


Interpolated SAR [W/kg]
2.46
0

Meas.28 Left Head with Cheek on 122 Channel in IEEE802.11ac80 mode with Antenna 12

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
2AIZN-YYS-X6882	162.0 x 73.0 x 8.0	Phone

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 [℃]	Liquid Temperature [℃]
LeftHead, HSL	CHEEK, 0.00	WLAN 5GHz	WLAN, 10544-AAD	5610.0, 122	5.0	5.00	35.2	22.3	21.3

Hardware Setup

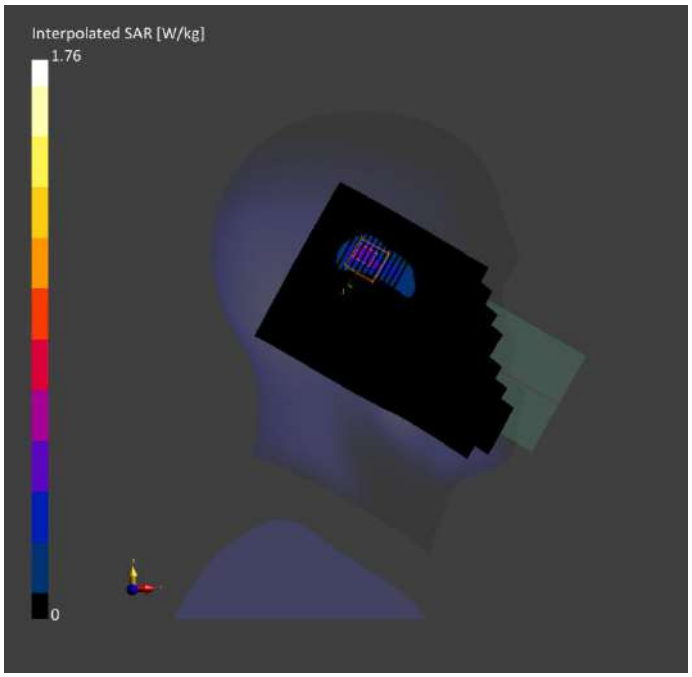
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-07-29	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	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	2024-07-29	2024-07-29
psSAR1g [W/kg]	0.390	0.459
psSAR10g [W/kg]	0.144	0.151
Power Drift [dB]	-0.04	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		52.5
Dist 3dB Peak [mm]		6.8


Interpolated SAR [W/kg]
1.76
0

Meas.29 Left Head with Cheek on 155 Channel in IEEE802.11 ac80 mode with Antenna 12

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
2AIZN-YYS-X6882	162.0 x 73.0 x 8.0	Phone

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 [℃]	Liquid Temperature [℃]
LeftHead, HSL	CHEEK, 0.00	WLAN 5GHz	WLAN, 10544-AAD	5775.0, 155	5.04	5.26	34.6	22.2	21.8

Hardware Setup

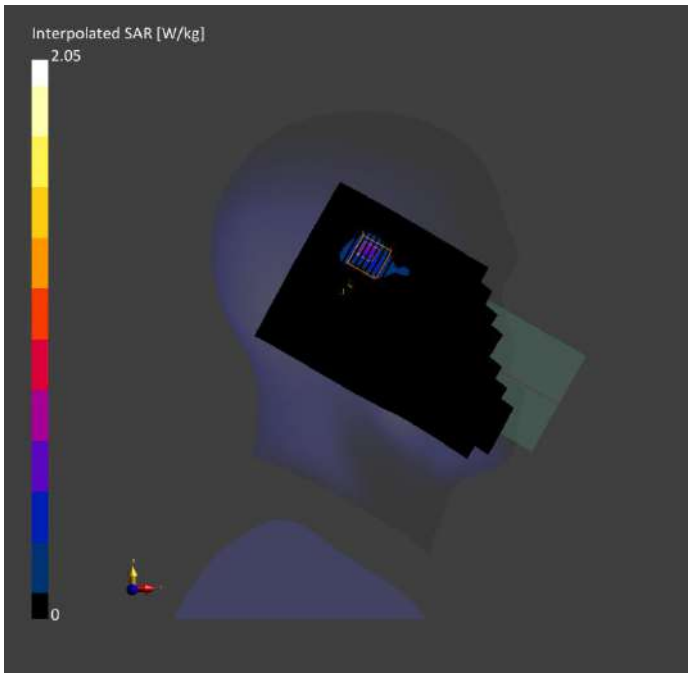
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-07-28	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	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	2024-07-28	2024-07-28
psSAR1g [W/kg]	0.446	0.506
psSAR10g [W/kg]	0.148	0.154
Power Drift [dB]	0.02	-0.08
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.9
Dist 3dB Peak [mm]		6.3


Interpolated SAR [W/kg]
2.05
0

Meas.30 Body Plane with Back Side 10mm on 62 Channel in IEEE802.11n40 mode with Antenna 12

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
2AIZN-YYS-X6882	162.0 x 73.0 x 8.0	Phone

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 [℃]	Liquid Temperature [℃]
Flat, HSL	BACK, 10.00	WLAN 5GHz	WLAN, 10114-CAD	5310.0, 62	5.5	4.70	35.7	22.3	21.3

Hardware Setup

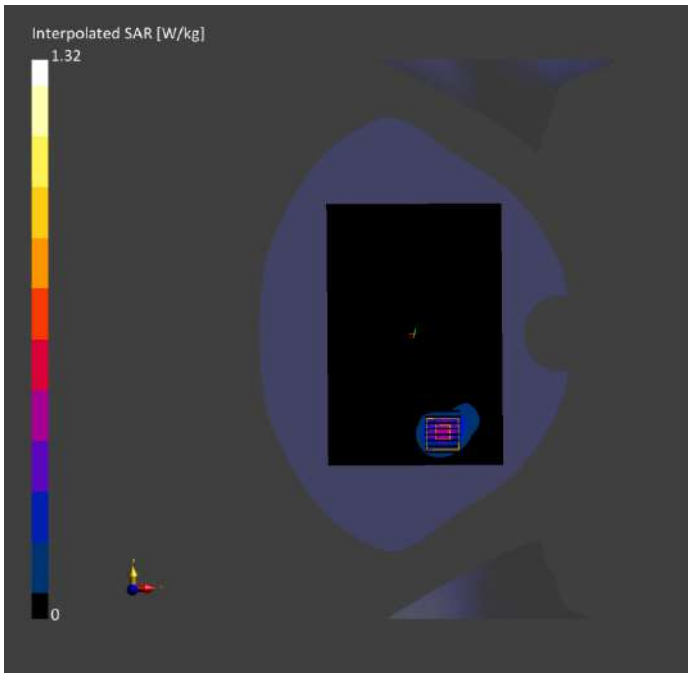
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-07-29	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	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	2024-07-29	2024-07-29
psSAR1g [W/kg]	0.366	0.397
psSAR10g [W/kg]	0.133	0.139
Power Drift [dB]	-0.09	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		56.1
Dist 3dB Peak [mm]		7.9


Interpolated SAR [W/kg]
1.32
0

Meas.31 Body Plane with Back Side 10mm on 122 Channel in IEEE802.11ac80 mode with Antenna 12

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
2AIZN-YYS-X6882	162.0 x 73.0 x 8.0	Phone

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 [℃]	Liquid Temperature [℃]
Flat, HSL	BACK, 10.00	WLAN 5GHz	WLAN, 10544-AAC	5610.0, 122	5.0	5.00	35.2	22.3	21.3

Hardware Setup

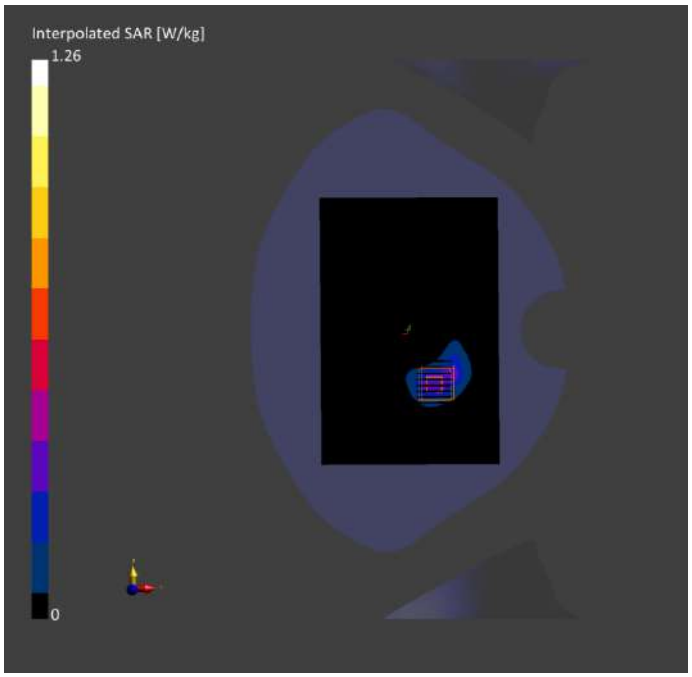
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-07-29	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	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	2024-07-29	2024-07-29
psSAR1g [W/kg]	0.305	0.353
psSAR10g [W/kg]	0.119	0.125
Power Drift [dB]	-0.09	0.08
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		53.8
Dist 3dB Peak [mm]		7.9


Interpolated SAR [W/kg]
1.26
0

Meas.32 Body Plane with Back Side 10mm on 46 Channel in IEEE802.11n40 mode with Antenna 12

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
2AIZN-YYS-X6882	165.0 x 77.9 x 8.0	Phone

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 [℃]	Liquid Temperature [℃]
Flat, HSL	BACK, 10.00	WLAN 5GHz	WLAN, 10599-AAC	5230.0, 46	5.74	4.58	36.3	22.3	21.3

Hardware Setup

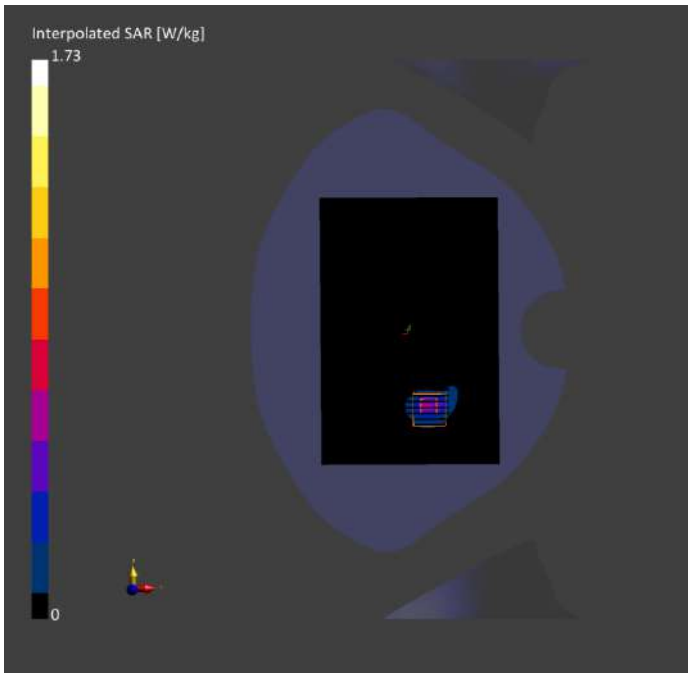
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-07-29	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	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	2024-07-29	2024-07-29
psSAR1g [W/kg]	0.440	0.491
psSAR10g [W/kg]	0.141	0.157
Power Drift [dB]	0.03	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		56.4
Dist 3dB Peak [mm]		7.2


Interpolated SAR [W/kg]
1.73
0

Meas.33 Body Plane with Back Side 10mm on 155 Channel in IEEE802.11ac80 mode with Antenna 12

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
2AIZN-YYS-X6882	162.0 x 73.0 x 8.0	Phone

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 [℃]	Liquid Temperature [℃]
Flat, HSL	BACK, 10.00	WLAN 5GHz	WLAN, 10544-AAD	5775.0, 155	5.04	5.26	34.6	22.2	21.8

Hardware Setup

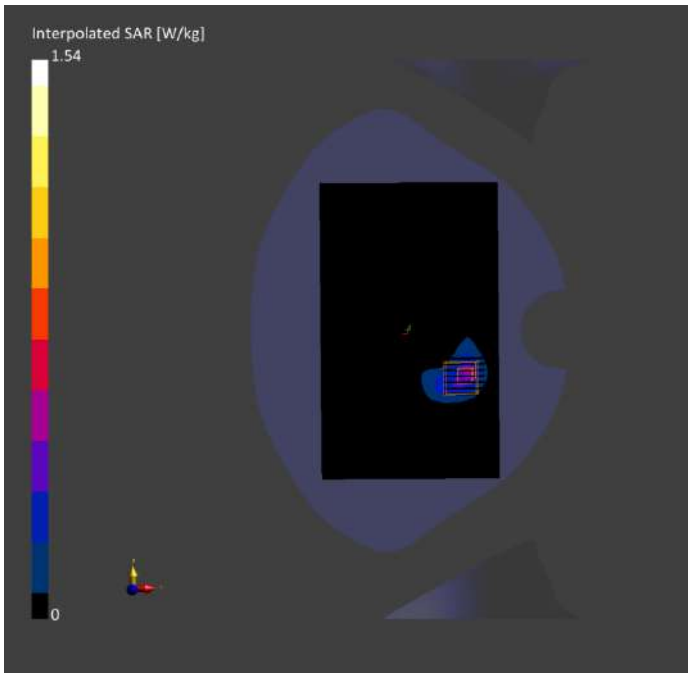
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-07-28	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

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	2024-07-28	2024-07-28
psSAR1g [W/kg]	0.378	0.403
psSAR10g [W/kg]	0.137	0.135
Power Drift [dB]	-0.04	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		51.1
Dist 3dB Peak [mm]		8.0


Interpolated SAR [W/kg]
1.54
0

Meas.34 Body Plane with Top Edge 0mm on 62 Channel in IEEE802.11n40 mode with Antenna 12

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
2AIZN-YYS-X6882	162.0 x 73.0 x 8.0	Phone

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 [℃]	Liquid Temperature [℃]
Flat, HSL	EDGE TOP, 0.00	WLAN 5GHz	WLAN, 10114-CAD	5310.0, 62	5.5	4.70	35.7	22.3	21.3

Hardware Setup

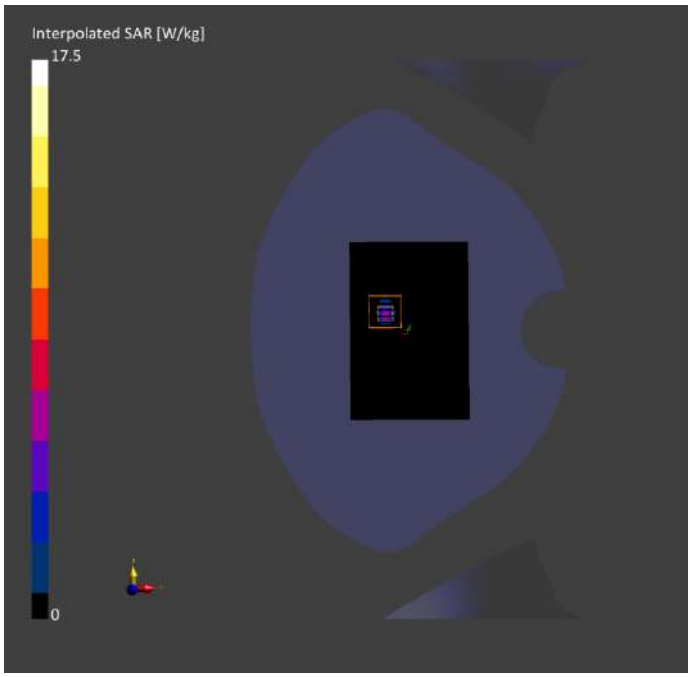
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-07-29	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	8.0 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	2024-07-29	2024-07-29
psSAR1g [W/kg]	3.27	3.47
psSAR10g [W/kg]	0.667	0.667
Power Drift [dB]	0.01	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		51.3
Dist 3dB Peak [mm]		3.6


Interpolated SAR [W/kg]
17.5
0

Meas.35 Body Plane with Top Edge 0mm on 122 Channel in IEEE802.11ac80 mode with Antenna 12

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
2AIZN-YYS-X6882	162.0 x 73.0 x 8.0	Phone

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 [℃]	Liquid Temperature [℃]
Flat, HSL	EDGE TOP, 0.00	WLAN 5GHz	WLAN, 10544-AAC	5610.0, 122	5.0	5.00	35.2	22.3	21.3

Hardware Setup

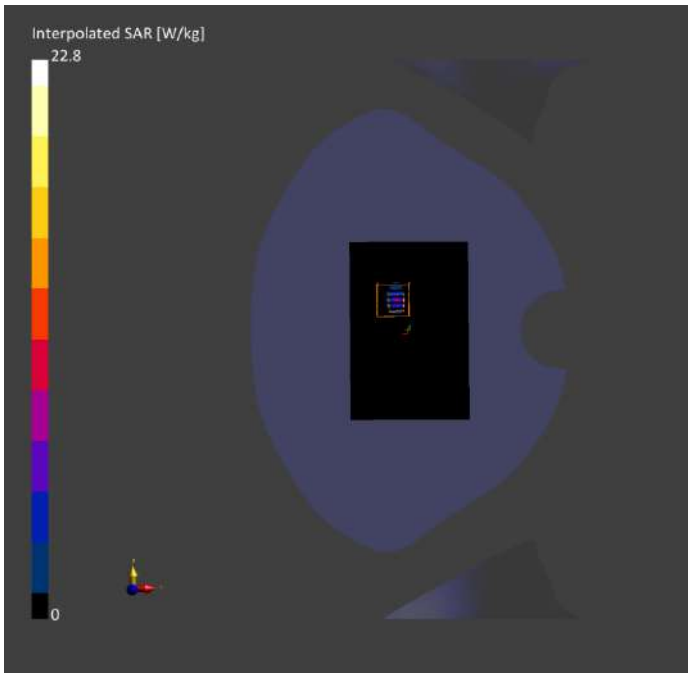
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-07-29	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	8.0 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	2024-07-29	2024-07-29
psSAR1g [W/kg]	4.00	4.10
psSAR10g [W/kg]	0.873	0.836
Power Drift [dB]	0.13	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		48.1
Dist 3dB Peak [mm]		3.2


Interpolated SAR [W/kg]
22.8
0

Meas.36 Left Head with Cheek on 39 Channel in Bluetooth mode with Antenna 12

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
2AIZN-YYS-X6882	162.0 x 73.0 x 8.0	Phone

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 [℃]	Liquid Temperature [℃]
LeftHead, HSL	CHEEK, 0.00	ISM 2.4 GHz Band	Bluetooth, 10032-CAA	2441.0, 39	7.75	1.76	39.2	22.8	21.1

Hardware Setup

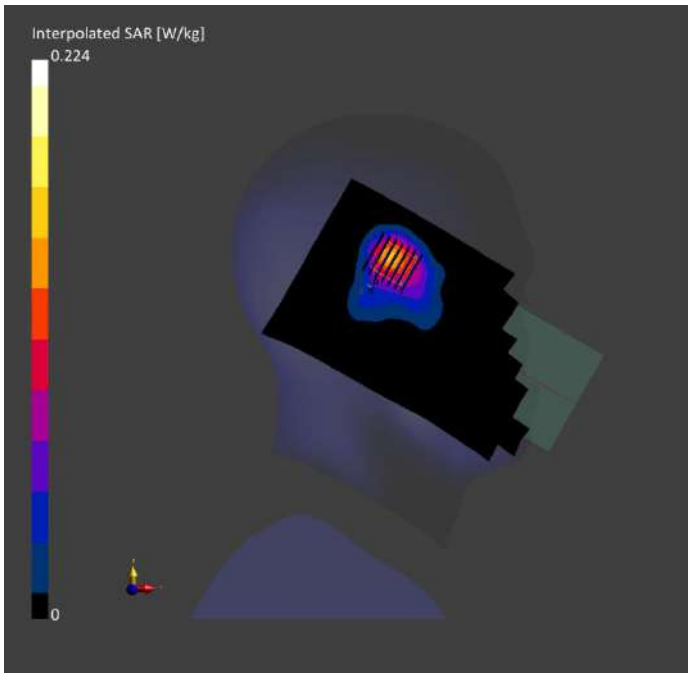
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-07-27	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

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	All points	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-07-27	2024-07-27
psSAR1g [W/kg]	0.122	0.122
psSAR10g [W/kg]	0.063	0.064
Power Drift [dB]	0.02	-0.07
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		51.4
Dist 3dB Peak [mm]		11.0


Interpolated SAR [W/kg]
0.224
0

Meas.37 Body Plane with Back Side 10mm on 39 Channel in Bluetooth mode with Antenna 12

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
2AIZN-YYS-X6882	162.0 x 73.0 x 8.0	Phone

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 [℃]	Liquid Temperature [℃]
Flat, HSL	BACK, 10.00	ISM 2.4 GHz Band	Bluetooth, 10032-CAA	2441.0, 39	7.75	1.76	39.2	22.8	21.1

Hardware Setup

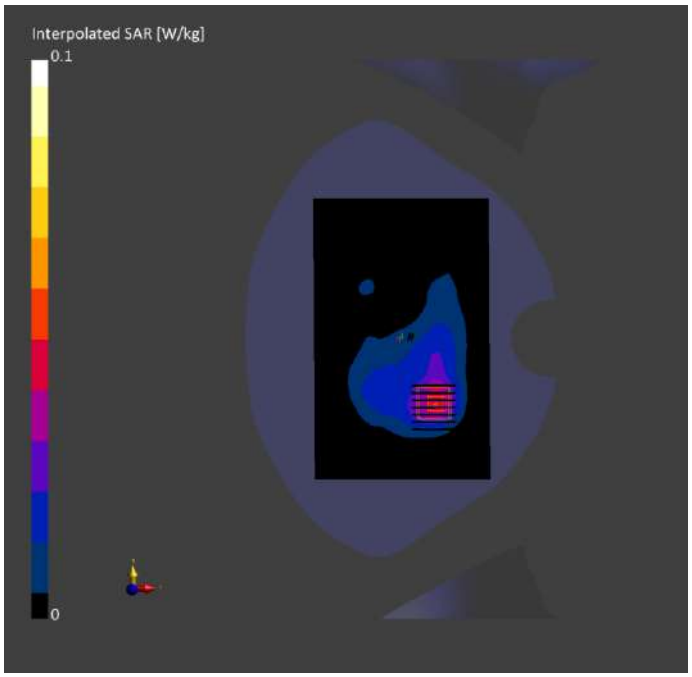
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-07-27	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

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	2024-07-27	2024-07-27
psSAR1g [W/kg]	0.040	0.041
psSAR10g [W/kg]	0.021	0.020
Power Drift [dB]	0.02	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		45.2
Dist 3dB Peak [mm]		> 15.0


Interpolated SAR [W/kg]
0.1
0

ANNEX D EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2461006-AW.pdf”.

ANNEX E SAR TEST SETUP PHOTOS

Please refer the document “BL-SZ2461006-AS.pdf”.

ANNEX F CALIBRATION REPORT

Please refer the document “BL-SZ2461006-AC.pdf”.

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