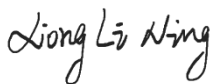


TEST REPORT

Applicant: Xiaomi Communications Co., Ltd.
Address: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road,
Haidian District, Beijing, China, 100085
Equipment Type: Tablet Computer
Model Name: 2505DRP06G
Brand Name: Redmi
FCC ID: 2AFZZRP06G
Test Standard: FCC 47 CFR Part 2.1093
(refer to section 3.1)
Maximum SAR: Body (1 g@0mm): 1.04 W/kg
Sample Arrival Date: Feb. 11, 2025
Test Date: Feb. 18, 2025 - Feb. 27, 2025
Date of Issue: Mar. 12, 2025

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

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

Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Mar. 12, 2025</u>	<u>Initial Issue</u>

TABLE OF CONTENTS

1	GENERAL INFORMATION.....	5
1.1	Test Laboratory	5
1.2	Test Location	5
1.3	Test Environment Condition.....	5
2	PRODUCT INFORMATION	6
2.1	Applicant Information	6
2.2	Manufacturer Information.....	6
2.3	General Description for Equipment under Test (EUT).....	6
2.4	Ancillary Equipment.....	6
2.5	Technical Information	7
3	SUMMARY OF TEST RESULT	9
3.1	Test Standards	9
3.2	Device Category and SAR Limit	10
3.3	Test Result Summary	11
3.4	Test Uncertainty	12
4	MEASUREMENT SYSTEM	13
4.1	Specific Absorption Rate (SAR) Definition	13
4.2	DASY SAR System	14
5	SYSTEM VERIFICATION	22
5.1	Purpose of System Check	22
5.2	System Check Setup	22
6	TEST POSITION CONFIGURATIONS	23
6.1	Body-worn Position Conditions	23
7	MEASUREMENT PROCEDURE	24

7.1	Measurement Process Diagram	24
7.2	SAR Scan General Requirement	25
7.3	Measurement Procedure	26
7.4	Area & Zoom Scan Procedure	26
7.5	LTE (TDD) Considerations.....	27
8	CONDUCTED RF OUPUT POWER	29
8.1	GSM.....	29
8.2	WCDMA	29
8.3	LTE.....	29
8.4	WIFI.....	30
8.5	Bluetooth	36
8.6	Power Reduction List.....	37
9	PROXIMITY SENSOR TRIGGERING TEST	41
9.1	Procedures for determining proximity sensor distance.....	41
9.2	Procedures for determining EUT tilt angle influences to proximity sensor triggering ...	44
10	TEST EXCLUSION CONSIDERATION	45
11	TEST RESULT	46
11.1	GSM 850	46
11.2	GSM 1900	47
11.3	WCDMA Band 2	48
11.4	WCDMA Band 4	49
11.5	WCDMA Band 5	50
11.6	LTE Band 2 (20MHz Bandwidth)	51
11.7	LTE Band 4 (20MHz Bandwidth)	52
11.8	LTE Band 5 (10MHz Bandwidth)	53
11.9	LTE Band 7 (20MHz Bandwidth)	54
11.10	LTE Band 13 (10MHz Bandwidth).....	55
11.11	LTE Band 26 (15MHz Bandwidth).....	56
11.12	LTE Band 66 (20MHz Bandwidth).....	57
11.13	LTE Band 38 (20MHz Bandwidth).....	58

11.14	LTE Band 41 (20MHz Bandwidth).....	59
11.15	WIFI 2.4GHz.....	60
11.16	WIFI 5GHz.....	61
11.17	Bluetooth	62
12	SAR Measurement Variability	63
13	SIMULTANEOUS TRANSMISSION.....	64
13.1	Simultaneous Transmission Mode Consider	64
13.2	Sum SAR of Simultaneous Transmission	65
14	TEST EQUIPMENTS LIST	71
ANNEX A	SIMULATING LIQUID VERIFICATION RESULT	72
ANNEX B	SYSTEM CHECK RESULT	73
ANNEX C	TEST DATA.....	104
ANNEX D	EUT EXTERNAL PHOTOS.....	124
ANNEX E	SAR TEST SETUP PHOTOS	124
ANNEX F	CALIBRATION REPORT	124
ANNEX G	TUNE-UP PROCEDURE.....	124

1 GENERAL INFORMATION

1.1 Test Laboratory

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

1.2 Test Location

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

1.3 Test Environment Condition

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

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Xiaomi Communications Co., Ltd.
Address	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

2.2 Manufacturer Information

Manufacturer	Xiaomi Communications Co., Ltd.
Address	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

2.3 General Description for Equipment under Test (EUT)

EUT Name	Tablet Computer
Model Name Under Test	2505DRP06G
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	135100O84X
Software Version	Xiaomi HyperOS 2.1
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A
EUT ID	S45, S44, S40, S41, S42, S43
IMEI Number	S45: IMEI1:869433070025542; IMEI2:869433070025559
	S44: IMEI1:869433070025906; IMEI2:869433070025914
	S40: IMEI1:869433070024784; IMEI2:869433070024792
	S41: IMEI1:869433070025203; IMEI2:869433070025211
	S42: IMEI1: 869433070025708; IMEI2:869433070025716
	S43: IMEI1: 869433070025443; IMEI2:869433070025450
Note1: EUT ID is used to identify the test sample in the lab internally. Note2: It is performed to test SAR with the EUT S40, S41, S42, S43 and conducted power with the EUT S45 & S44.	

2.4 Ancillary Equipment

Please refer the document "BL-SZ2510527-AW EUT external photo.pdf".

2.5 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EDGE 850/900/1800/1900 3G Network WCDMA/HSDPA/HSUPA Band 1/2/4/5/6/8/19 4G Network FDD LTE Band 1/2/3/4/5/7/8/13/18/19/20/26/28/66 TDD LTE Band 38/40/41 Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n(HT20/40) and 802.11ac(VHT20/40/80) GPS, GLONASS, Galileo, BDS, QZSS, FM Receiver
Note: The EUT is a Tablet Computer, 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 13	TX: 777 ~ 787 MHz	RX: 746 ~ 756 MHz
	LTE Band 26	TX: 814 ~ 824 MHz	RX: 859 ~ 869 MHz
		TX: 824 ~ 849 MHz	RX: 869 ~ 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	
Antenna Type	WWAN: PIFA Antenna WIFI: PIFA Antenna Bluetooth: PIFA Antenna		
DTM	N/A		
Hotspot Function	Support		
Power Reduction	Support		

Exposure Category	General Population/Uncontrolled exposure	
Product Type	Portable Device	
EUT Type	☒ Production unit	☐ Identical prototype
Note: 1. The device utilizes independent power reduction mechanisms for SAR compliance for the 2/3/4G transmitter for held-to-ear exposure conditions. 2. The device utilizes independent power reduction mechanisms for SAR compliance for the 2/3/4G transmitter for near to body exposure conditions. 3. The reduction power details please refer section 8.6.		

3 SUMMARY OF TEST RESULT

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 2.1093	Radiofrequency radiation exposure evaluation: portable devices
2	ANSI/IEEE C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz
3	KDB 447498 D04 v01	447498 D04 Interim General RF Exposure Guidance v01
4	KDB 941225 D01 v03r01	3G SAR MEAUREMENT PROCEDURES
5	KDB 941225 D05 v02r05	SAR Evaluation Considerations for LTE Devices
6	KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
7	KDB 865664 D02 v01r02	RF Exposure Reporting
8	KDB 616217 D04v01r02	SAR for laptop and tablets
9	KDB 248227 D01 v02r02	SAR GUIDANCE FOR IEEE 802.11 (Wi-Fi) TRANSMITTERS

3.2 Device Category and SAR Limit

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

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

Table of Exposure Limits:

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

NOTE:

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

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

3.3 Test Result Summary

3.3.1 Highest SAR Values

Equipment Class	Band	Maximum Scaled SAR (W/kg)	Maximum Report SAR (W/kg)
		Body (0mm)	Body (0mm)
		1g SAR	1g SAR
PCE	GSM 850	0.75	1.04
	GSM 1900	1.02	
	WCDMA Band 2	1.00	
	WCDMA Band 4	1.03	
	WCDMA Band 5	0.86	
	LTE Band 2	0.96	
	LTE Band 4	0.84	
	LTE Band 5	0.48	
	LTE Band 7	1.04	
	LTE Band 13	0.88	
	LTE Band 26	1.04	
	LTE Band 66	0.88	
	LTE Band 38	0.87	
	LTE Band 41	0.78	
DTS	2.4G WIFI	0.83	
NII	5.2&5.3G WLAN	0.58	
	5.6G WLAN	0.50	
	5.8G WLAN	0.42	
DSS	Bluetooth	0.29	
Limit (W/kg)		1.60	1.60
Verdict		PASS	

3.4 Test Uncertainty

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

The maximum 1 g SAR for the EUT in this report is 1.04 W/kg, which is lower than 1.5 W/kg, so the extensive SAR measurement uncertainty analysis is not required in this report.

4 MEASUREMENT SYSTEM

4.1 Specific Absorption Rate (SAR) Definition

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

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

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

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

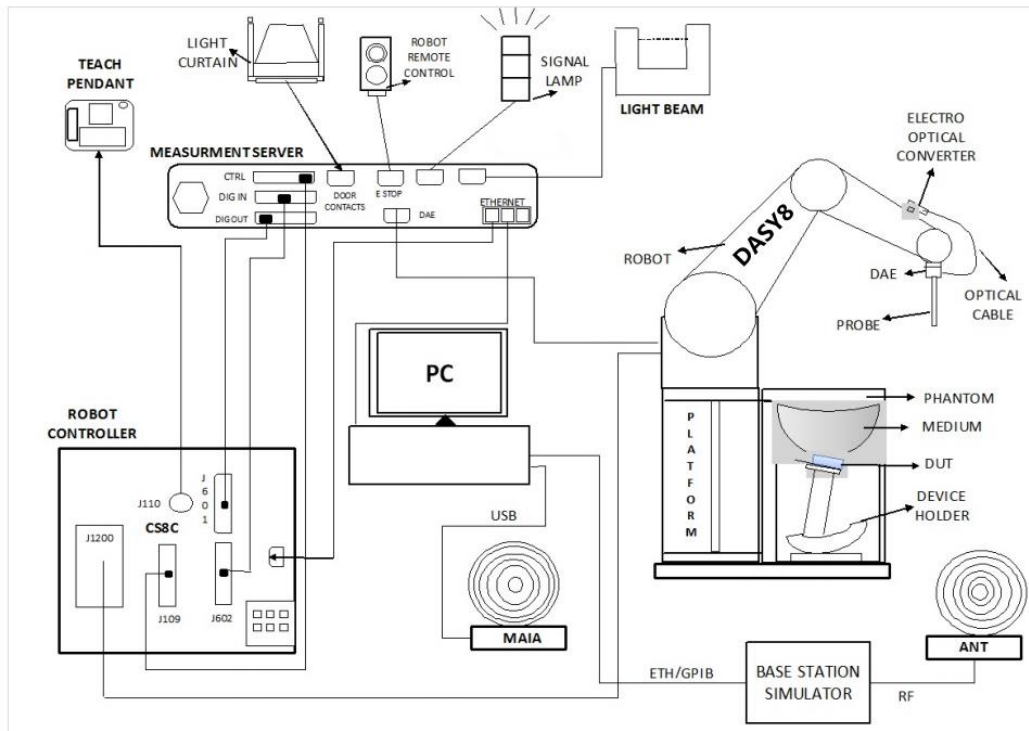
$$SAR = \frac{\sigma E^2}{\rho}$$

Where: σ is the conductivity of the tissue,

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

4.2 DASY SAR System

4.2.1 DASY SAR System Diagram



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

1. A standard high precision 6-axis robot (Stäubli RX family) with controller and software. An arm extension for accommodating the data acquisition electronics (DAE).
2. A dosimetric probe, i.e. an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
3. A data acquisition electronic (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
4. A unit to operate the optical surface detector which is connected to the EOC.
5. The Electro-Optical Coupler (EOC) performs the conversion from the optical into a digital electric signal of the DAE. The EOC is connected to the DASY5 measurement server.
6. The DASY measurement server, which performs all real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operation.
7. DASY5 software and SEMCAD data evaluation software.
8. Remote control with teach panel and additional circuitry for robot safety such as warning lamps, etc.
9. The generic twin phantom enabling the testing of left-hand and right-hand usage.
10. The device holder for handheld mobile phones.
11. Tissue simulating liquid mixed according to the given recipes.
12. System validation dipoles allowing to validate the proper functioning of the system.

4.2.2 Robot

The Dasy SAR system uses the high precision robots. Symmetrical design with triangular core Built-in optical fiber for surface detection system For the 6-axis controller system, Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents). The robot series have many features that are important for our application:



- High precision
(repeatability ± 0.02 mm)
- High reliability
(industrial design)
- Low maintenance costs
(virtually maintenance free due to direct drive gears; no belt drives)
- Jerk-free straight movements
(brush less synchron motors; no stepper motors)
- Low ELF interference
(motor control _elds shielded via the closed metallic construction shields)

4.2.3 E-Field Probe

The probe is specially designed and calibrated for use in liquids with high permittivities for the measurements the Specific Dosimetric E-Field Probe EX3DV4-SN:7510&7893 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 μ W/g to > 100 mW/g; Linearity: ± 0.2 dB
Dimensions	Overall length: 337 mm (Tip: 9 mm) Tip diameter: 2.5 mm (Body: 10 mm) Distance from probe tip to dipole centers: 1.0 mm
Application	General dosimetry up to 3 GHz Compliance tests of mobile phones Fast automatic scanning in arbitrary phantoms (EX3DV4)

E-Field Probe Calibration Process

Probe calibration is realized, in compliance with IEC/IEEE 62209-1528 and IEEE 1528 std, with CALISAR, Antennessa proprietary calibration system. The calibration is performed with the IEC/IEEE 62209-1528 annexe technique using reference guide at the five frequencies.

4.2.4 Data Acquisition Electronics

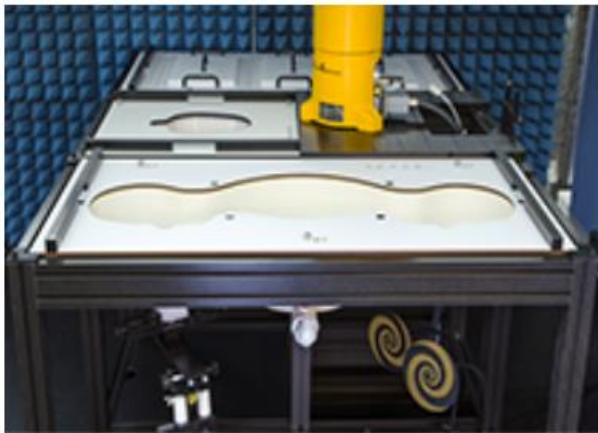
The data acquisition electronics (DAE) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converte and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an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



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

4.2.5 Phantoms

Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of below 10 GHz. ELI V8.0 is fully compatible with the latest draft of the standard IEC 62209 Part II and all known tissue simulating liquids. ELI V8.0 has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points.



·Flat phantom

Photo of Phantom SN2159**Photo of Phantom SN2162**

Serial Number	Shell Thickness (mm)	Major ellipse axis (mm)	Minor axis (mm)
SN 2159 ELI V8.0	2.0 ± 0.2	600	400
SN 2162 ELI V8.0	2.0 ± 0.2	600	400

4.2.6 Device Holder

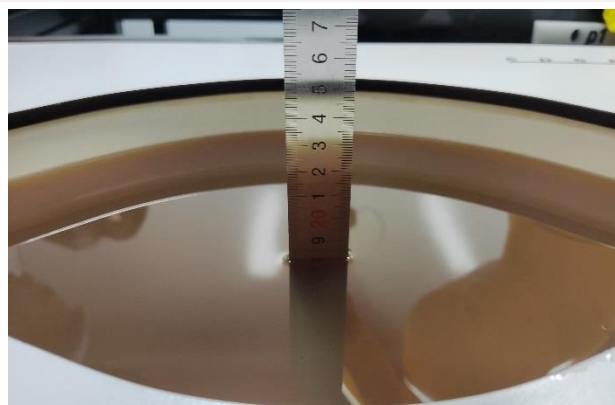
The DASY device holder has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of 65° . The bottom plate contains three pair of bolts for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

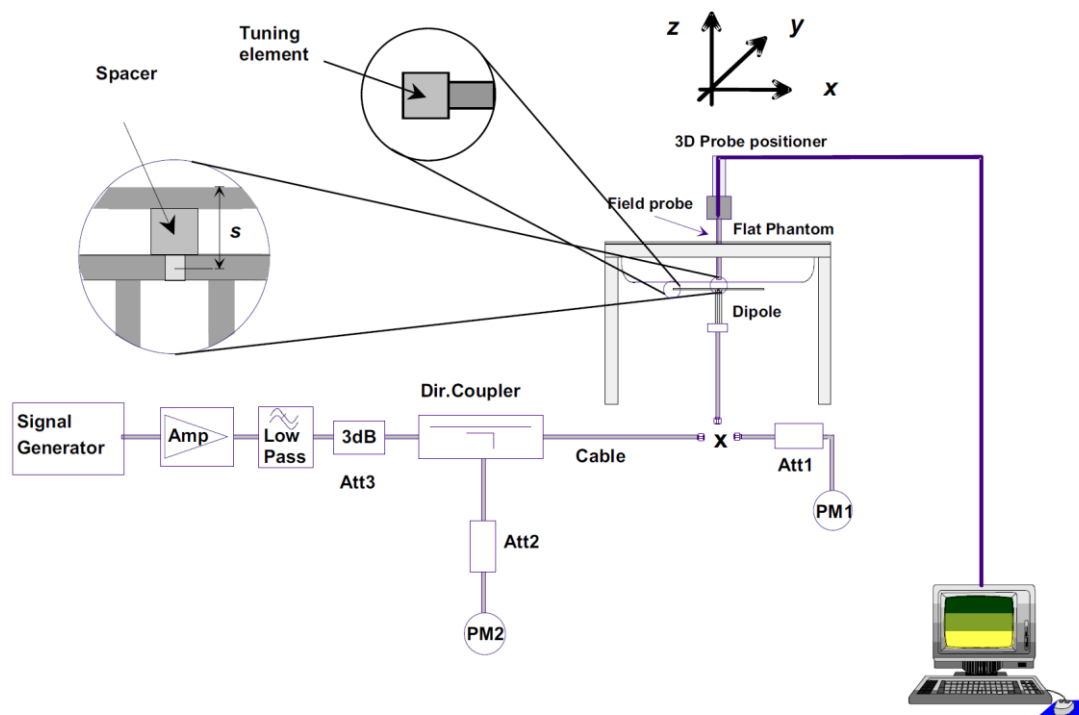
5 SYSTEM VERIFICATION

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

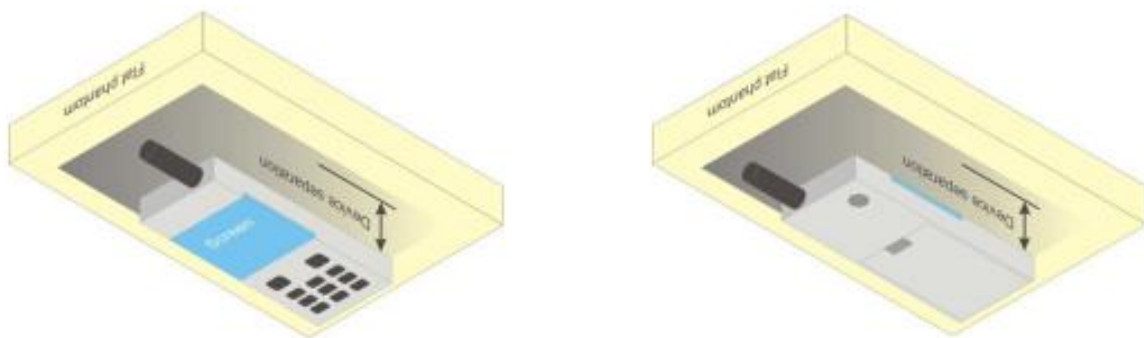
According to KDB 648474 D04 Handset, handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

6.1 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.

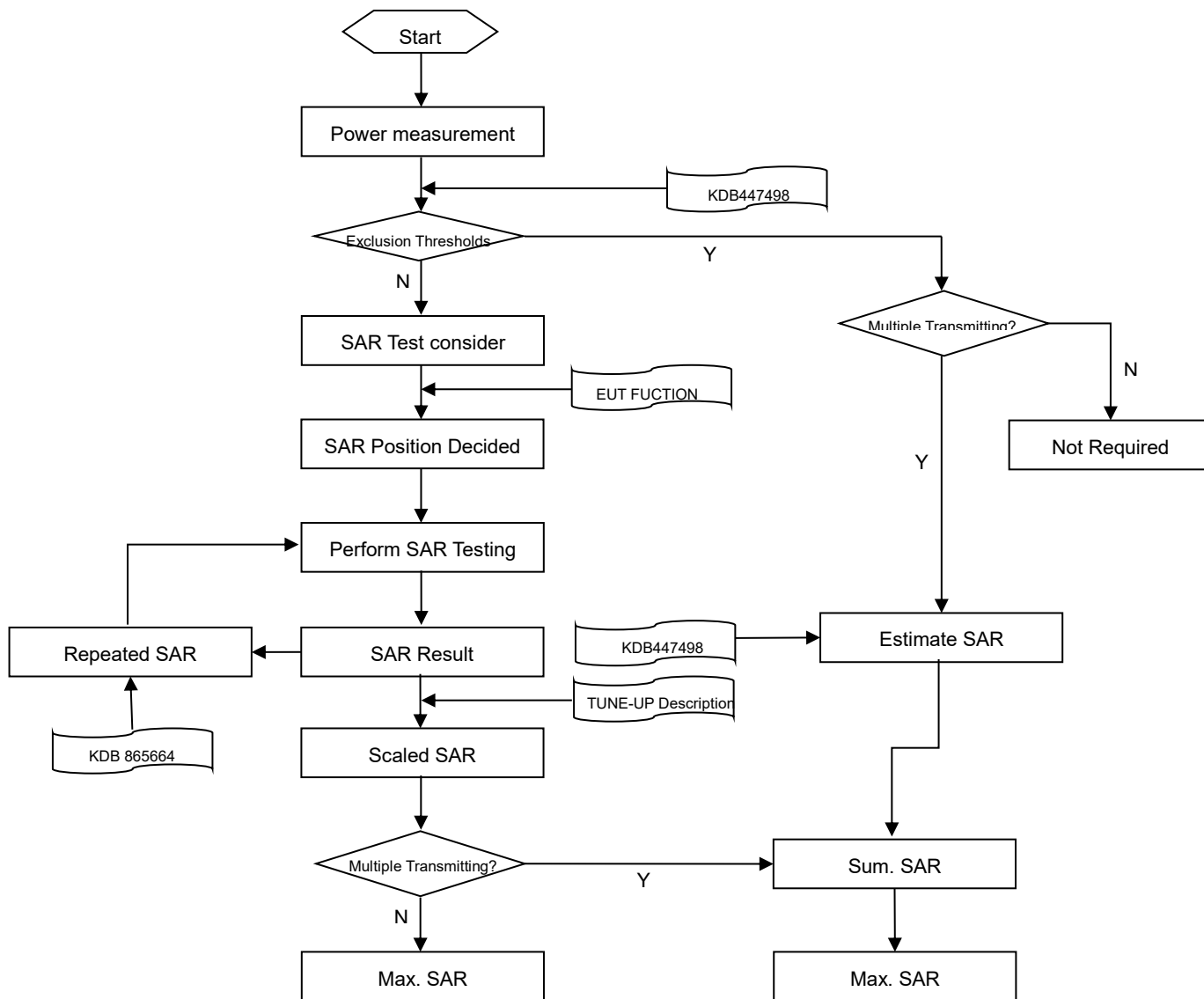
Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics.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



7 MEASUREMENT PROCEDURE

7.1 Measurement Process Diagram



7.2 SAR Scan General Requirement

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

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

Note:

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

7.3 Measurement Procedure

The following steps are used for each test position

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

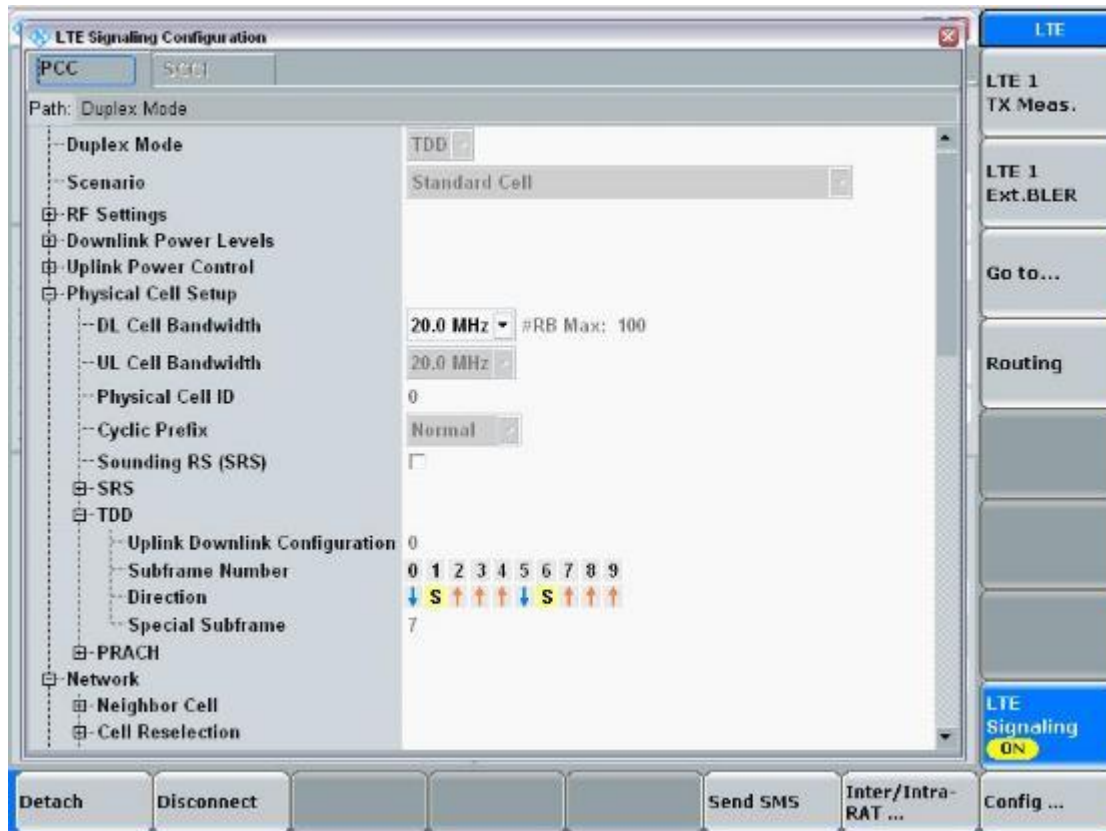
7.4 Area & Zoom Scan Procedure

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

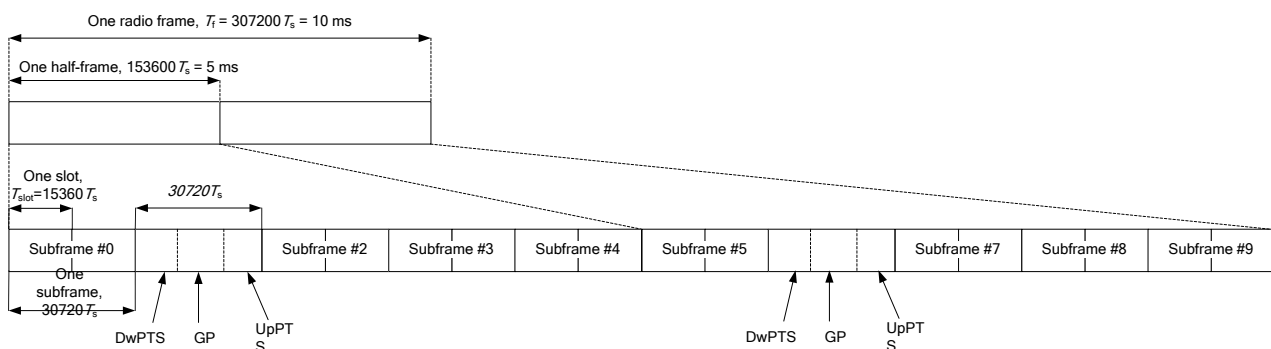
When the 1 g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.

7.5 LTE (TDD) Considerations

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



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



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

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

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

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

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

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

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

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

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

8 CONDUCTED RF OUPUT POWER

8.1 GSM

Please refer the document "BL-SZ2510527-AP.pdf".

8.2 WCDMA

Please refer the document "BL-SZ2510527-AP.pdf".

8.3 LTE

Please refer the document "BL-SZ2510527-AP.pdf".

8.4 WIFI

8.4.1 2.4G WIFI- Full Power&DSI2

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4	802.11b	1	2412	17.44	18.00	No
		6	2437	17.48	18.00	No
		11	2462	17.98	18.00	Yes
	802.11g	1	2412	14.70	15.00	No
		6	2437	18.23	19.00	No
		11	2462	11.71	12.00	No
	802.11n(HT20)	1	2412	13.55	14.00	No
		6	2437	18.15	19.00	No
		11	2462	12.76	13.00	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 = $0.018 * (79.43\text{mW}/63.10\text{mW}) = 0.023$ W/Kg, so 2.4G OFDM SAR test is not required.

8.4.2 2.4G WIFI-DSI1

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4	802.11b	1	2412	11.09	12.50	Yes
		6	2437	11.08	12.50	Yes
		11	2462	11.56	12.50	Yes
	802.11g	1	2412	10.51	12.50	No
		6	2437	11.03	12.50	No
		11	2462	11.16	12.50	No
	802.11n(HT20)	1	2412	10.52	12.50	No
		6	2437	10.85	12.50	No
		11	2462	11.04	12.50	No

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

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

2) When multiple transmission modes (802.11b/g/n) 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 = $0.833 * (17.78\text{mW}/17.78\text{mW}) = 0.833$ W/Kg, so 2.4G OFDM SAR test is not required.

8.4.3 5G WIFI-Full Power&DSI2

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2	802.11a	36	5180	17.32	18.00	No
		44	5220	17.45	18.00	No
		48	5240	17.55	18.00	No
	802.11n(HT20)	36	5180	16.23	17.00	No
		44	5220	16.86	17.00	No
		48	5240	16.41	17.00	No
	802.11n(HT40)	38	5190	15.26	16.00	No
		46	5230	15.27	16.00	No
	802.11ac(VHT20)	36	5180	16.24	17.00	No
		44	5220	16.32	17.00	No
		48	5240	16.37	17.00	No
	802.11ac(VHT40)	38	5190	15.17	16.00	No
		46	5230	15.79	16.00	No
	802.11ac(VHT80)	42	5210	14.47	15.00	No
5.3	802.11a	52	5260	17.45	18.00	No
		60	5300	17.55	18.00	No
		64	5320	17.56	18.00	Yes
	802.11n(HT20)	52	5260	16.87	17.00	No
		60	5300	16.51	17.00	No
		64	5320	16.42	17.00	No
	802.11n(HT40)	54	5270	15.36	16.00	No
		62	5310	15.41	16.00	No
	802.11ac(VHT20)	52	5260	16.92	17.00	No
		60	5300	16.55	17.00	No
		64	5320	16.48	17.00	No
	802.11ac(VHT40)	54	5270	15.86	16.00	No
		62	5310	15.83	16.00	No
	802.11ac(VHT80)	58	5290	13.99	15.00	No
5.6	802.11a	100	5500	13.84	15.00	No
		116	5580	17.01	18.00	Yes
		140	5700	13.07	14.50	No
	802.11n(HT20)	100	5500	13.20	14.50	No
		116	5580	16.01	17.00	No
		140	5700	13.42	14.50	No
	802.11n(HT40)	102	5510	11.16	12.50	No
		118	5590	15.20	16.00	No

		134	5670	14.54	16.00	No
	802.11ac(VHT20)	100	5500	13.73	15.00	No
		116	5580	15.87	17.00	No
		140	5700	12.48	14.00	No
	802.11ac(VHT40)	102	5510	11.61	13.00	No
		118	5590	15.25	16.00	No
		134	5670	14.35	16.00	No
	802.11ac(VHT80)	106	5530	11.31	13.00	No
		122	5690	14.25	15.00	No
	5.8	802.11a	149	5745	17.94	18.00
157			5785	17.58	18.00	No
165			5825	17.49	18.00	No
802.11n(HT20)		149	5745	16.86	17.00	No
		157	5785	16.33	17.00	No
		165	5825	16.43	17.00	No
802.11n(HT40)		151	5755	15.79	16.00	No
		159	5795	15.77	16.00	No
802.11ac(VHT20)		149	5745	16.25	17.00	No
		157	5785	16.91	17.00	No
		165	5825	16.85	17.00	No
802.11ac(VHT40)		151	5755	15.24	16.00	No
		159	5795	15.27	16.00	No
802.11ac(VHT80)		155	5775	13.95	15.00	No

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

8.4.4 5G WIFI-DSI1

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2	802.11a	36	5180	8.04	8.50	No
		44	5220	8.05	8.50	No
		48	5240	8.06	8.50	No
	802.11n(HT20)	36	5180	7.88	8.50	No
		44	5220	7.95	8.50	No
		48	5240	8.02	8.50	No
	802.11n(HT40)	38	5190	8.03	8.50	No
		46	5230	7.76	8.50	No
	802.11ac(VHT20)	36	5180	7.79	8.50	No
		44	5220	7.77	8.50	No
		48	5240	8.17	8.50	No
	802.11ac(VHT40)	38	5190	7.71	8.50	No
		46	5230	7.82	8.50	No
	802.11ac(VHT80)	42	5210	7.73	8.50	No
5.3	802.11a	52	5260	8.12	8.50	No
		60	5300	8.26	8.50	No
		64	5320	8.15	8.50	No
	802.11n(HT20)	52	5260	8.10	8.50	No
		60	5300	8.11	8.50	No
		64	5320	8.07	8.50	No
	802.11n(HT40)	54	5270	7.78	8.50	No
		62	5310	7.88	8.50	No
	802.11ac(VHT20)	52	5260	8.34	8.50	No
		60	5300	7.86	8.50	No
		64	5320	7.89	8.50	No
	802.11ac(VHT40)	54	5270	7.97	8.50	No
		62	5310	7.87	8.50	No
	802.11ac(VHT80)	58	5290	7.99	8.50	Yes
5.6	802.11a	100	5500	8.38	8.50	No
		116	5580	8.39	8.50	No
		140	5700	8.04	8.50	No
	802.11n(HT20)	100	5500	8.28	8.50	No
		116	5580	8.34	8.50	No
		140	5700	7.98	8.50	No
	802.11n(HT40)	102	5510	8.02	8.50	No
		118	5590	8.45	8.50	No

		134	5670	7.57	8.50	No
	802.11ac(VHT20)	100	5500	8.31	8.50	No
		116	5580	8.32	8.50	No
		140	5700	7.87	8.50	No
	802.11ac(VHT40)	102	5510	8.13	8.50	No
		118	5590	8.18	8.50	No
		134	5670	7.66	8.50	No
	802.11ac(VHT80)	106	5530	7.96	8.50	Yes
		122	5690	7.76	8.50	No
5.8	802.11a	149	5745	7.01	8.50	No
		157	5785	8.06	8.50	No
		165	5825	7.99	8.50	No
	802.11n(HT20)	149	5745	7.92	8.50	No
		157	5785	7.95	8.50	No
		165	5825	8.01	8.50	No
	802.11n(HT40)	151	5755	7.51	8.50	No
		159	5795	7.48	8.50	No
	802.11ac(VHT20)	149	5745	7.84	8.50	No
		157	5785	7.89	8.50	No
		165	5825	7.91	8.50	No
	802.11ac(VHT40)	151	5755	7.73	8.50	No
		159	5795	7.73	8.50	No
	802.11ac(VHT80)	155	5775	7.36	8.50	Yes

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

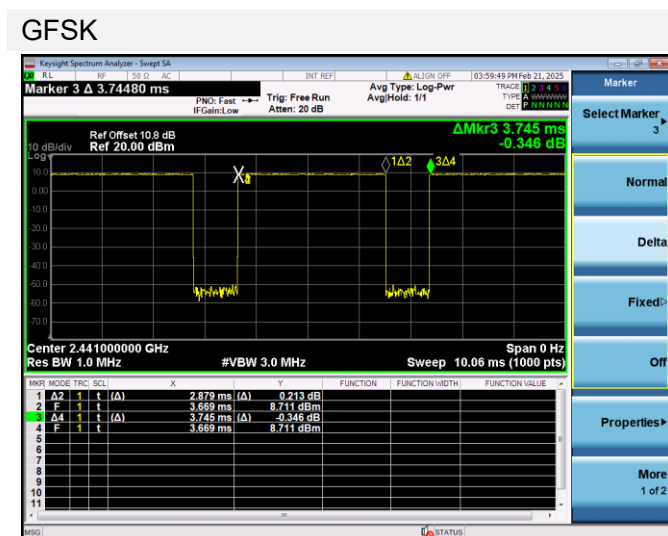
8.5 Bluetooth

Mode	GFSK			$\pi/4$ -DQPSK		
Channel	0	39	78	0	39	78
Frequency (MHz)	2402	2441	2480	2402	2441	2480
Average Power (dBm)	8.52	8.69	8.17	5.31	4.96	4.60
Tune-Up Limit (dBm)	9.00	9.00	9.00	6.00	6.00	6.00
SAR Test Require	NO	YES	NO	NO	NO	NO
Mode	8-DPSK			/		
Channel	0	39	78	/	/	/
Frequency (MHz)	2402	2441	2480	/	/	/
Average Power (dBm)	5.14	4.84	4.42	/	/	/
Tune-Up Limit (dBm)	6.00	6.00	6.00	/	/	/
SAR Test Require	NO	NO	NO	/	/	/
Mode	BLE-1Mbps			BLE-2Mbps		
Channel	0	19	39	1	19	38
Frequency (MHz)	2402	2440	2480	2404	2440	2478
Average Power (dBm)	5.03	5.41	4.89	5.40	5.59	5.24
Tune-Up Limit (dBm)	6.50	6.50	6.50	6.50	6.50	6.50
SAR Test Require	NO	NO	NO	NO	NO	NO

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

Note: The Bluetooth duty cycle is 76.88 % 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



8.6 Power Reduction List

1. The device employs proximity sensors that detect the presence of the user's body and Product Specific of the device. When these conditions are detected, Body and Limb reduced power will be active..

2. When the proximity sensor invalid, the power is reduced to the corresponding Minimum power scenario.

WWAN Reduced power level table

Reduced level	Sensor state	Receiver state	Antenna	Transmitting conditions	Position
DSI2	Sensor Off	Off (Body scenario)	Ant.3	Only WWAN WWAN + WLAN 2.4G WWAN + WLAN 5G+BT	Right Edge
DSI1	Sensor2 On	Off (Body scenario)	Ant.3	Only WWAN WWAN + WLAN 2.4G WWAN + WLAN 5G+BT	Front Side;Back Side;Top Edge;

WWAN Antenna Power table

Mode	Antenna	WWAN Antenna		
		Full Power	Receiver off	Receiver off
			Body	Body
		Off	DSI1	DSI2
GSM 850	Ant.3	33.50	30.00	33.50
GPRS850 1 Tx Slot	Ant.3	33.50	30.00	33.50
GPRS850 2 Tx Slots	Ant.3	31.50	28.00	31.50
GPRS850 3 Tx Slots	Ant.3	29.50	26.00	29.50
GPRS850 4 Tx Slots	Ant.3	27.00	23.50	27.00
EGPRS850 1 Tx Slot	Ant.3	26.00	22.50	26.00
EGPRS850 2 Tx Slots	Ant.3	23.00	19.50	23.00
EGPRS850 3 Tx Slots	Ant.3	21.00	17.50	21.00
EGPRS850 4 Tx Slots	Ant.3	20.00	18.00	20.00
GSM 1900	Ant.3	30.50	20.50	30.50
GPRS1900 1 Tx Slot	Ant.3	30.50	20.50	30.50
GPRS1900 2 Tx Slots	Ant.3	28.50	18.50	28.50
GPRS1900 3 Tx Slots	Ant.3	26.50	16.50	26.50
GPRS1900 4 Tx Slots	Ant.3	24.50	14.50	24.50
EGPRS1900 1 Tx Slot	Ant.3	26.50	16.50	26.50
EGPRS1900 2 Tx Slots	Ant.3	23.00	13.00	23.00
EGPRS1900 3 Tx Slots	Ant.3	20.50	10.50	20.50
EGPRS1900 4 Tx Slots	Ant.3	19.00	9.00	19.00

WCDMA Band2 AMR	Ant.3	25.00	12.00	25.00
WCDMA Band2 RMC	Ant.3	25.00	12.00	25.00
HSDPA Subtest-1	Ant.3	24.50	11.50	24.50
HSDPA Subtest-2	Ant.3	24.50	11.50	24.50
HSDPA Subtest-3	Ant.3	24.00	11.00	24.00
HSDPA Subtest-4	Ant.3	24.00	11.00	24.00
HSUPA Subtest-1	Ant.3	22.50	9.50	22.50
HSUPA Subtest-2	Ant.3	22.50	9.50	22.50
HSUPA Subtest-3	Ant.3	23.00	10.00	23.00
HSUPA Subtest-4	Ant.3	22.00	9.00	22.00
HSUPA Subtest-5	Ant.3	23.50	10.50	23.50
HSPA+	Ant.3	22.50	9.50	22.50
WCDMA Band4 AMR	Ant.3	25.00	12.00	25.00
WCDMA Band4 RMC	Ant.3	25.00	12.00	25.00
HSDPA Subtest-1	Ant.3	24.50	11.50	24.50
HSDPA Subtest-2	Ant.3	24.50	11.50	24.50
HSDPA Subtest-3	Ant.3	24.00	11.00	24.00
HSDPA Subtest-4	Ant.3	24.00	11.00	24.00
HSUPA Subtest-1	Ant.3	22.50	9.50	22.50
HSUPA Subtest-2	Ant.3	22.50	9.50	22.50
HSUPA Subtest-3	Ant.3	23.00	10.00	23.00
HSUPA Subtest-4	Ant.3	22.00	9.00	22.00
HSUPA Subtest-5	Ant.3	23.50	10.50	23.50
HSPA+	Ant.3	22.50	9.50	22.50
WCDMA Band5 AMR	Ant.3	25.00	20.00	25.00
WCDMA Band5 RMC	Ant.3	25.00	20.00	25.00
HSDPA Subtest-1	Ant.3	24.50	19.50	24.50
HSDPA Subtest-2	Ant.3	24.50	19.50	24.50
HSDPA Subtest-3	Ant.3	24.00	19.00	24.00
HSDPA Subtest-4	Ant.3	24.00	19.00	24.00
HSUPA Subtest-1	Ant.3	22.50	17.50	22.50
HSUPA Subtest-2	Ant.3	22.50	17.50	22.50
HSUPA Subtest-3	Ant.3	23.00	18.00	23.00
HSUPA Subtest-4	Ant.3	22.00	17.00	22.00
HSUPA Subtest-5	Ant.3	23.50	18.50	23.50
HSPA+	Ant.3	22.50	17.50	22.50
LTE Band2	Ant.3	25.50	11.50	25.50
LTE Band4	Ant.3	25.50	11.50	25.50
LTE Band5	Ant.3	25.50	17.50	25.50
LTE Band7	Ant.3	25.50	12.00	25.50
LTE Band13	Ant.3	25.50	22.00	25.50
LTE Band26	Ant.3	25.50	21.00	25.50
LTE Band66	Ant.3	25.50	11.50	25.50

LTE Band38	Ant.3	25.50	13.00	25.50
LTE Band41	Ant.3	21.00	13.00	21.00

WLAN&BT Reduced power level table

Reduced State	Sensor state	Receiver state	Transmitting conditions	Position
DSI2	Sensor Off	Off (Body scenario)	WLAN 2.4G Only WLAN 5G Only BT Only WWAN + WLAN 2.4G WWAN+WLAN 5G+BT	Left Edge
DSI1	Sensor1 On	Off (Body scenario)	WLAN 2.4G Only WLAN 5G Only BT Only WWAN + WLAN2.4G WWAN+WLAN 5G+BT	Front Side;Back Side;Top Edge;

Mode	Antenna	WLAN Antenna1		
		Full Power	Body	Body
			Receiver off	Receiver off
			DSI1	DSI2
2.4G WLAN 802.11b	ANT1	20.00	12.50	20.00
2.4G WLAN 802.11g	ANT1	19.00	12.50	19.00
2.4G WLAN 802.11n20	ANT1	19.00	12.50	19.00
5.2&5.3G WLAN 802.11a	ANT1	18.00	8.50	18.00
5.2&5.3G WLAN 802.11n20	ANT1	17.00	8.50	17.00
5.2&5.3G WLAN 802.11n40	ANT1	16.00	8.50	16.00
5.2&5.3G WLAN 802.11ac20	ANT1	17.00	8.50	17.00
5.2&5.3G WLAN 802.11ac40	ANT1	16.00	8.50	16.00
5.2&5.3G WLAN 802.11ac80	ANT1	15.00	8.50	15.00
5.6G WLAN 802.11a	ANT1	18.00	8.50	18.00
5.6G WLAN 802.11n20	ANT1	17.00	8.50	17.00
5.6G WLAN 802.11n40	ANT1	16.00	8.50	16.00
5.6G WLAN 802.11ac20	ANT1	17.00	8.50	17.00
5.6G WLAN 802.11ac40	ANT1	16.00	8.50	16.00
5.6G WLAN 802.11ac80	ANT1	15.00	8.50	15.00
5.8G WLAN 802.11a	ANT1	18.00	8.50	18.00
5.8G WLAN 802.11n20	ANT1	17.00	8.50	17.00
5.8G WLAN 802.11n40	ANT1	16.00	8.50	16.00
5.8G WLAN 802.11ac20	ANT1	17.00	8.50	17.00
5.8G WLAN 802.11ac40	ANT1	16.00	8.50	16.00
5.8G WLAN 802.11ac80	ANT1	15.00	8.50	15.00

Bluetooth	ANT1	9.00	/	/
-----------	------	------	---	---

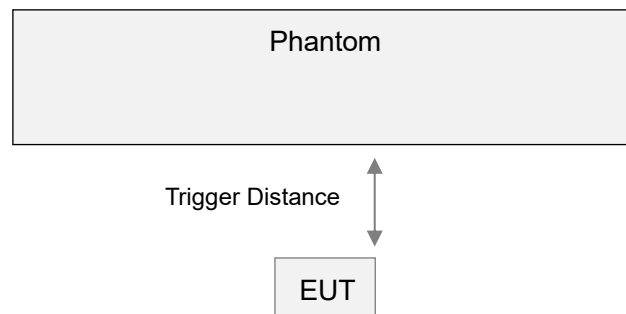
9 PROXIMITY SENSOR TRIGGERING TEST

9.1 Procedures for determining proximity sensor distance

The device uses one proximity sensors to reduce the maximum output power in selected wireless mode and operating configurations to ensure SAR compliance. The sensor implementation can identify and facilitate triggering different max power levels for different scenarios including the device held by hand(Extremity) and different exposure test positions test positions when the device is closed to a user's body.

Proximity sensor triggering distance testing was performed, EUT moving further away from the phantom and EUT moving toward the phantom were both assessed, and the shortest triggering distances were reported and used for SAR assessment. Note that while sensor is failed and it sets the output power to the lowest one in the sensor trigger state ,to make sure the SAR requirements can still be satisfied.

9.1.1 proximity sensor_1

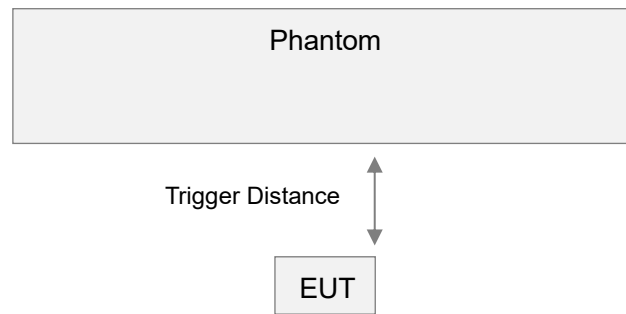


EUT moving toward Phantom

Distance in mm	9	10	11	12	13~14	15	16	17	18	19~23	24
Front Side	On	On	On	On	On	On	On	Off	Off	Off	Off
Back Side	On	On	On	On	On	On	On	Off	Off	Off	Off
Top Edge	On	On	On	On	On	On	On	Off	Off	Off	Off

Note: Power reduction is only applicable for ANT1.

9.1.2 proximity sensor channel-2



Distance in mm	1~8	9	10	11~13	14	15	16	17~18	19	20	21~24
Front Side	On	On	On	On	On	On	On	Off	Off	Off	Off
Back Side	On	On	On	On	On	On	On	On	On	Off	Off
Top Edge	On	On	On	On	On	On	On	On	On	On	Off

Note: Power reduction is only applicable for ANT3.

To ensure all production units are compliant, it is generally necessary to reduce the triggering distance determined from the triggering tests by 1 mm, or more if it is necessary, and use the smallest distance for EUT moving toward the phantom, minus 1 mm, as the sensor triggering distance for determining the SAR measurement distance.

ANT1 of proximity sensor_1

EUT Sides	Additional SAR test Distance in mm
Front Side	16
Back Side	16
Top Edge	16

ANT3 of proximity sensor_2

EUT Sides	Additional SAR test Distance in mm
Front Side	16
Back Side	19
Top Edge	20

9.2 Procedures for determining EUT tilt angle influences to proximity sensor triggering

The influence of EUT tilt angles to proximity sensor_1 triggering was determined by positioning each EUT edge that contains a transmitting antenna 1, perpendicular to the flat phantom, 16 mm separation for the top edge.

Rotating the EUT around the edge next to the phantom in $\leq 10^\circ$ increments until the EUT is $\pm 45^\circ$ from the vertical position at 0° , and the maximum output power remains in the reduced mode.

The influence of EUT tilt angles to proximity sensor_2 triggering was determined by positioning each EUT edge that contains a transmitting antenna 3, perpendicular to the flat phantom, at 20 mm separation for the top edge.

Rotating the EUT around the edge next to the phantom in $\leq 10^\circ$ increments until the EUT is $\pm 45^\circ$ from the vertical position at 0° , and the maximum output power remains in the reduced mode.

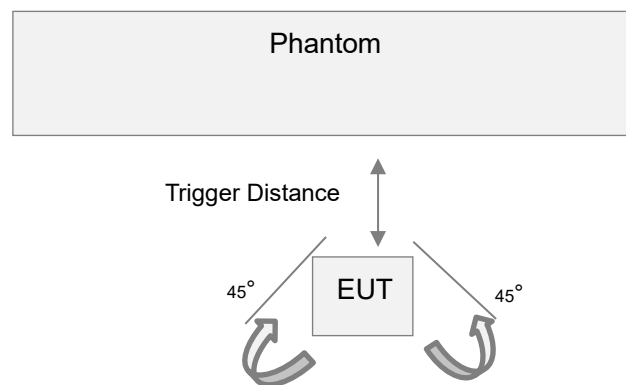


Table: Summary of Phone Tilt Angle Influence to Proximity Sensor Triggering(Top edge)

Antenna	Posltion	Minimum trigger distance at which power reduction was maintained over $\pm 45^\circ$	Power Reduction Status											
			-45°	-35°	-25°	-15°	-5°	0°	5°	15°	25°	35°	45°	
ANT1	Top Edge	16mm	on	on	on	on	on	on	on	on	on	on	on	
ANT3	Top Edge	20mm	on	on	on	on	on	on	on	on	on	on	on	

10 TEST EXCLUSION CONSIDERATION

For antenna location and support bands please refer the document “BL-SZ2510527-AI EUT internal photo.pdf”.

Antenna	Front Side(mm)	Back Side(mm)	Left Edge(mm)	Right Edge(mm)	Top Edge(mm)	Bottom Edge(mm)
Ant.1	<25	<25	<25	>25	<25	>25
Ant.3	<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.

Antenna	Support Bands
Antenna.3	GSM: 850/1900 WCDMA: B2/4/5 LTE FDD: B2/4/5/7/13/26/66 LTE TDD: B38/41
Antenna.1	WLAN2.4G&WLAN5G; Bluetooth

11 TEST RESULT

11.1 GSM 850

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Body													
Ant.3	DSI1	DATA 2slots	Front Side	0	128	824.2	0.02	0.382	26.43	28.00	1.435	0.548	/
	DSI1	DATA 2slots	Back Side	0	128	824.2	-0.01	0.524	26.43	28.00	1.435	0.752	1#
	DSI2	DATA 2slots	Right Edge	0	128	824.2	0.07	0.071	29.63	31.50	1.538	0.109	/
	DSI1	DATA 2slots	Top Edge	0	128	824.2	-0.01	0.371	26.43	28.00	1.435	0.532	/
	DSI1	DATA 2slots	Back Side	0	190	836.6	0.18	0.358	26.20	28.00	1.514	0.542	/
	DSI1	DATA 2slots	Back Side	0	251	848.8	-0.09	0.323	26.30	28.00	1.479	0.478	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Body (n-1)													
Ant.3	DSI2	DATA 2slots	Front Side	15	128	824.2	-0.01	0.210	29.63	31.50	1.538	0.323	/
	DSI2	DATA 2slots	Back Side	18	128	824.2	0.07	0.212	29.63	31.50	1.538	0.326	/
	DSI2	DATA 2slots	Top Edge	19	128	824.2	0.08	0.075	29.63	31.50	1.538	0.115	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

11.2GSM 1900

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Body													
Ant.3	DSI1	DATA 2slots	Front Side	0	661	1880.0	-0.16	0.269	16.74	18.50	1.500	0.404	/
	DSI1	DATA 2slots	Back Side	0	661	1880.0	0.16	0.404	16.74	18.50	1.500	0.606	/
	DSI2	DATA 2slots	Right Edge	0	810	1909.8	-0.07	0.098	26.59	28.50	1.552	0.152	/
	DSI1	DATA 2slots	Top Edge	0	661	1880.0	0.01	0.677	16.74	18.50	1.500	1.016	2#
	DSI1	DATA 2slots	Top Edge	0	512	1850.2	-0.01	0.608	16.56	18.50	1.563	0.950	/
	DSI1	DATA 2slots	Top Edge	0	810	1909.8	0.09	0.421	16.64	18.50	1.535	0.646	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Body (n-1)													
Ant.3	DSI2	DATA 2slots	Front Side	15	810	1909.8	-0.14	0.215	26.59	28.50	1.552	0.334	/
	DSI2	DATA 2slots	Back Side	18	810	1909.8	0.01	0.230	26.59	28.50	1.552	0.357	/
	DSI2	DATA 2slots	Top Edge	19	810	1909.8	0.19	0.298	26.59	28.50	1.552	0.462	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

11.3WCDMA Band 2

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Body													
Ant.3	DSI1	RMC	Front Side	0	9400	1880.0	0.02	0.353	11.46	12.00	1.132	0.400	/
	DSI1		Back Side	0	9400	1880.0	0.09	0.491	11.46	12.00	1.132	0.556	/
	DSI2		Right Edge	0	9400	1880.0	-0.08	0.195	23.62	25.00	1.374	0.268	/
	DSI1		Top Edge	0	9400	1880.0	0.00	0.884	11.46	12.00	1.132	1.001	3#
	DSI1		Top Edge	0	9262	1852.4	0.19	0.806	11.46	12.00	1.132	0.912	/
	DSI1		Top Edge	0	9538	1907.6	-0.16	0.851	11.50	12.00	1.122	0.955	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Body (n-1)													
Ant.3	DSI2	RMC	Front Side	15	9400	1880.0	-0.18	0.605	23.62	25.00	1.374	0.831	/
	DSI2		Back Side	18	9400	1880.0	0.09	0.705	23.62	25.00	1.374	0.969	/
	DSI2		Top Edge	19	9400	1880.0	0.05	0.742	23.62	25.00	1.374	1.020	/
	DSI2		Top Edge	19	9262	1852.4	-0.19	0.716	23.58	25.00	1.387	0.993	/
	DSI2		Top Edge	19	9538	1907.6	-0.18	0.622	23.61	25.00	1.377	0.856	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

11.4WCDMA Band 4

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Body													
Ant.3	DSI1	RMC	Front Side	0	1312	1712.4	0.02	0.249	10.23	12.00	1.503	0.374	/
	DSI1		Back Side	0	1312	1712.4	0.03	0.415	10.23	12.00	1.503	0.624	/
	DSI2		Right Edge	0	1513	1752.6	-0.16	0.191	23.40	25.00	1.445	0.276	/
	DSI1		Top Edge	0	1312	1712.4	0.02	0.685	10.23	12.00	1.503	1.030	4#
	DSI1		Top Edge	0	1412	1732.4	-0.08	0.611	10.42	12.00	1.439	0.879	/
	DSI1		Top Edge	0	1513	1752.6	-0.13	0.587	10.41	12.00	1.442	0.846	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Body (n-1)													
Ant.3	DSI2	RMC	Front Side	15	1513	1752.6	0.16	0.531	23.40	25.00	1.445	0.767	/
	DSI2		Back Side	18	1513	1752.6	0.07	0.573	23.40	25.00	1.445	0.828	/
	DSI2		Top Edge	19	1513	1752.6	0.19	0.658	23.40	25.00	1.445	0.951	/
	DSI2		Top Edge	19	1312	1712.4	0.14	0.521	23.17	25.00	1.524	0.794	/
	DSI2		Top Edge	19	1412	1732.4	-0.17	0.655	23.39	25.00	1.449	0.949	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

11.5WCDMA Band 5

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Body													
Ant.3	DSI1	RMC	Front Side	0	4182	836.4	-0.09	0.385	18.85	20.00	1.303	0.502	/
	DSI1		Back Side	0	4182	836.4	-0.02	0.657	18.85	20.00	1.303	0.856	5#
	DSI2		Right Edge	0	4182	836.4	0.11	0.091	23.74	25.00	1.337	0.122	/
	DSI1		Top Edge	0	4182	836.4	0.12	0.382	18.85	20.00	1.303	0.498	/
	DSI1		Back Side	0	4132	826.4	-0.16	0.539	18.84	20.00	1.306	0.704	/
	DSI1		Back Side	0	4233	846.6	0.05	0.521	18.75	20.00	1.334	0.695	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Body (n-1)													
Ant.3	DSI2	RMC	Front Side	15	4182	836.4	-0.17	0.204	23.74	25.00	1.337	0.273	/
	DSI2		Back Side	18	4182	836.4	0.15	0.295	23.74	25.00	1.337	0.394	/
	DSI2		Top Edge	19	4182	836.4	0.13	0.070	23.74	25.00	1.337	0.094	/
	DSI2		Back Side	18	4132	826.4	0.18	0.260	23.71	25.00	1.346	0.350	/
	DSI2		Back Side	18	4233	846.6	0.14	0.287	23.63	25.00	1.371	0.393	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

11.6LTE Band 2 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Body															
Ant.3	DSI1	QPSK	Front Side	0	18900	1880	1	MID	0.10	0.267	9.95	11.50	1.429	0.382	/
	DSI1		Back Side	0	18900	1880	1	MID	0.15	0.382	9.95	11.50	1.429	0.546	/
	DSI2		Right Edge	0	18900	1880	1	MID	0.03	0.241	24.04	25.50	1.400	0.337	/
	DSI1		Top Edge	0	18900	1880	1	MID	-0.14	0.563	9.95	11.50	1.429	0.805	/
	DSI1		Front Side	0	18900	1880	50	MID	-0.14	0.228	9.89	11.50	1.449	0.330	/
	DSI1		Back Side	0	18900	1880	50	MID	-0.02	0.285	9.89	11.50	1.449	0.413	/
	DSI2		Right Edge	0	18900	1880	50	MID	0.17	0.186	22.97	24.50	1.422	0.264	/
	DSI1		Top Edge	0	18900	1880	50	MID	0.18	0.397	9.89	11.50	1.449	0.575	/
	DSI1		Top Edge	0	19100	1900	1	MID	-0.05	0.455	9.92	11.50	1.439	0.655	/
	DSI1		Top Edge	0	18700	1860	1	MID	0.03	0.646	9.76	11.50	1.493	0.964	6#
	DSI1		Top Edge	0	19100	1900	50	MID	0.12	0.386	9.93	11.50	1.435	0.554	/
	DSI1		Top Edge	0	18700	1860	50	MID	-0.04	0.455	9.80	11.50	1.479	0.673	/
	DSI1		Top Edge	0	18900	1880	100	LOW	0.02	0.401	9.80	11.50	1.479	0.593	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Body(n-1)															
Ant.3	DSI2	QPSK	Front Side	15	18900	1880	1	MID	-0.06	0.644	24.04	25.50	1.400	0.902	/
	DSI2		Back Side	18	18900	1880	1	MID	-0.07	0.711	24.04	25.50	1.400	0.995	/
	DSI2		Top Edge	19	18900	1880	1	MID	0.15	0.723	24.04	25.50	1.400	1.012	/
	DSI2		Front Side	15	18700	1860	50	HIGH	0.15	0.571	22.99	24.50	1.416	0.809	/
	DSI2		Back Side	18	18700	1860	50	HIGH	0.06	0.592	22.99	24.50	1.416	0.838	/
	DSI2		Top Edge	19	18700	1860	50	HIGH	-0.19	0.598	22.99	24.50	1.416	0.847	/
	DSI2		Top Edge	18	18700	1860	1	MID	0.08	0.693	23.87	25.50	1.455	1.008	/
	DSI2		Top Edge	18	19100	1900	1	MID	-0.06	0.702	23.96	25.50	1.426	1.001	/
	DSI2		Top Edge	18	18900	1880	50	MID	0.09	0.536	22.88	24.50	1.452	0.778	/
	DSI2		Top Edge	18	19100	1900	50	MID	-0.15	0.486	22.93	24.50	1.435	0.697	/
	DSI2		Top Edge	18	18900	1880	100	LOW	-0.02	0.630	22.90	24.50	1.445	0.910	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

11.7LTE Band 4 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Body															
Ant.3	DSI1	QPSK	Front Side	0	20175	1732.5	1	MID	-0.14	0.225	9.74	11.50	1.500	0.338	/
	DSI1		Back Side	0	20175	1732.5	1	MID	0.01	0.364	9.74	11.50	1.500	0.546	/
	DSI2		Right Edge	0	20175	1732.5	1	MID	0.16	0.165	23.74	25.50	1.500	0.248	/
	DSI1		Top Edge	0	20175	1732.5	1	MID	-0.02	0.561	9.74	11.50	1.500	0.842	7#
	DSI1		Front Side	0	20175	1732.5	50	MID	0.13	0.182	9.72	11.50	1.507	0.274	/
	DSI1		Back Side	0	20175	1732.5	50	MID	-0.08	0.318	9.72	11.50	1.507	0.479	/
	DSI2		Right Edge	0	20175	1732.5	50	MID	0.15	0.142	22.76	24.50	1.493	0.212	/
	DSI1		Top Edge	0	20175	1732.5	50	MID	-0.12	0.419	9.72	11.50	1.507	0.631	/
	DSI1		Top Edge	0	20050	1720	1	MID	0.05	0.543	9.73	11.50	1.503	0.816	/
	DSI1		Top Edge	0	20300	1745	1	LOW	0.13	0.554	9.81	11.50	1.476	0.818	/
	DSI1		Top Edge	0	20050	1720	50	LOW	-0.06	0.402	9.62	11.50	1.542	0.620	/
	DSI1		Top Edge	0	20300	1745	50	MID	-0.15	0.408	9.71	11.50	1.510	0.616	/
	DSI1		Top Edge	0	20300	1745	100	LOW	0.11	0.427	9.95	11.50	1.429	0.610	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Body(n-1)															
Ant.3	DSI2	QPSK	Front Side	15	20175	1732.5	1	MID	0.01	0.539	23.74	25.50	1.500	0.809	/
	DSI2		Back Side	18	20175	1732.5	1	MID	0.09	0.531	23.74	25.50	1.500	0.797	/
	DSI2		Top Edge	19	20175	1732.5	1	MID	0.19	0.638	23.74	25.50	1.500	0.957	/
	DSI2		Front Side	15	20175	1732.5	50	MID	0.08	0.476	22.76	24.50	1.493	0.711	/
	DSI2		Back Side	18	20175	1732.5	50	MID	0.15	0.526	22.76	24.50	1.493	0.785	/
	DSI2		Top Edge	19	20175	1732.5	50	MID	0.06	0.623	22.76	24.50	1.493	0.930	/
	DSI2		Top Edge	19	20500	1720	1	MID	0.04	0.567	23.59	25.50	1.552	0.880	/
	DSI2		Top Edge	19	20300	1745	1	MID	-0.01	0.644	23.72	25.50	1.507	0.971	/
	DSI2		Top Edge	19	20500	1720	50	HIGH	-0.13	0.483	22.66	24.50	1.528	0.738	/
	DSI2		Top Edge	19	20300	1745	50	HIGH	0.01	0.552	22.75	24.50	1.496	0.826	/
	DSI2		Top Edge	19	20300	1745	100	LOW	0.18	0.563	22.76	24.50	1.493	0.841	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

11.8LTE Band 5 (10MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Body															
Ant.3	DSI1	QPSK	Front Side	0	20525	836.5	1	MID	0.04	0.167	16.60	17.50	1.230	0.205	/
	DSI1		Back Side	0	20525	836.5	1	MID	0.00	0.389	16.60	17.50	1.230	0.478	8#
	DSI2		Right Edge	0	20450	829	1	MID	0.08	0.148	24.15	25.00	1.216	0.180	/
	DSI1		Top Edge	0	20525	836.5	1	MID	-0.15	0.175	16.60	17.50	1.230	0.215	/
	DSI1		Front Side	0	20525	836.5	25	MID	0.05	0.155	16.57	17.50	1.239	0.192	/
	DSI1		Back Side	0	20525	836.5	25	MID	-0.11	0.225	16.57	17.50	1.239	0.279	/
	DSI2		Right Edge	0	20525	836.5	25	MID	0.11	0.125	23.09	24.00	1.233	0.154	/
	DSI1		Top Edge	0	20525	836.5	25	MID	0.04	0.140	16.57	17.50	1.239	0.173	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Body(n-1)															
Ant.3	DSI2	QPSK	Front Side	15	20450	829	1	MID	-0.19	0.167	24.15	25.00	1.216	0.203	/
	DSI2		Back Side	18	20450	829	1	MID	0.16	0.265	24.15	25.00	1.216	0.322	/
	DSI2		Top Edge	19	20450	829	1	MID	-0.02	0.071	24.15	25.00	1.216	0.086	/
	DSI2		Front Side	15	20525	836.5	25	MID	0.08	0.131	23.09	24.00	1.233	0.162	/
	DSI2		Back Side	18	20525	836.5	25	MID	-0.02	0.229	23.09	24.00	1.233	0.282	/
	DSI2		Top Edge	19	20525	836.5	25	MID	0.05	0.076	23.09	24.00	1.233	0.094	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

11.9LTE Band 7 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Body															
Ant.3	DSI1	QPSK	Front Side	0	21100	2535	1	MID	0.19	0.330	11.57	12.00	1.104	0.364	/
	DSI1		Back Side	0	21100	2535	1	MID	-0.09	0.854	11.57	12.00	1.104	0.943	/
	DSI2		Right Edge	0	20850	2510	1	MID	-0.12	0.205	25.03	25.50	1.114	0.228	/
	DSI1		Top Edge	0	21100	2535	1	MID	0.07	0.628	11.57	12.00	1.104	0.693	/
	DSI1		Front Side	0	21100	2535	50	MID	0.03	0.272	11.48	12.00	1.127	0.307	/
	DSI1		Back Side	0	21100	2535	50	MID	0.04	0.723	11.48	12.00	1.127	0.815	/
	DSI2		Right Edge	0	20850	2510	50	MID	0.02	0.163	24.01	24.50	1.119	0.182	/
	DSI1		Top Edge	0	21100	2535	50	MID	-0.07	0.524	11.48	12.00	1.127	0.591	/
	DSI1		Top Edge	0	20850	2510	1	MID	-0.06	0.943	11.56	12.00	1.107	1.044	9#
	DSI1		Top Edge	0	21350	2560	1	MID	-0.02	0.873	11.34	12.00	1.164	1.016	/
	DSI1		Top Edge	0	20850	2510	50	MID	-0.17	0.814	11.55	12.00	1.109	0.903	/
	DSI1		Top Edge	0	21350	2560	50	LOW	0.14	0.703	11.35	12.00	1.161	0.816	/
	DSI1		Top Edge	0	21100	2535	100	LOW	0.12	0.673	11.37	12.00	1.156	0.778	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Body(n-1)															
Ant.3	DSI2	QPSK	Front Side	15	20850	2510	1	MID	0.12	0.537	24.90	25.50	1.148	0.616	/
	DSI2		Back Side	18	20850	2510	1	MID	0.05	0.729	24.90	25.50	1.148	0.837	/
	DSI2		Top Edge	19	20850	2510	1	MID	-0.17	0.888	24.90	25.50	1.148	1.019	/
	DSI2		Front Side	15	20850	2510	50	MID	-0.16	0.423	23.86	24.50	1.159	0.490	/
	DSI2		Back Side	18	20850	2510	50	MID	-0.10	0.576	23.86	24.50	1.159	0.668	/
	DSI2		Top Edge	19	20850	2510	50	MID	-0.06	0.717	23.67	24.50	1.211	0.868	/
	DSI2		Top Edge	19	21100	2535	1	MID	0.04	0.853	24.90	25.50	1.148	0.979	/
	DSI2		Top Edge	19	21350	2560	1	MID	0.01	0.665	24.66	25.50	1.213	0.807	/
	DSI2		Top Edge	19	21100	2535	50	MID	0.05	0.811	24.01	24.50	1.119	0.908	/
	DSI2		Top Edge	19	21350	2560	50	LOW	-0.11	0.508	23.67	24.50	1.211	0.615	/
	DSI2		Top Edge	19	20850	2510	100	LOW	0.01	0.678	23.92	24.50	1.143	0.775	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

11.10 LTE Band 13 (10MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Body															
Ant.3	DSI1	QPSK	Front Side	0	23230	782	1	MID	-0.14	0.292	20.78	22.00	1.324	0.387	/
	DSI1		Back Side	0	23230	782	1	MID	0.00	0.662	20.78	22.00	1.324	0.876	10#
	DSI2		Right Edge	0	23230	782	1	MID	0.09	0.037	24.16	25.50	1.361	0.050	/
	DSI1		Top Edge	0	23230	782	1	MID	-0.06	0.423	20.78	22.00	1.324	0.560	/
	DSI1		Front Side	0	23230	782	25	HIGH	-0.09	0.221	20.78	22.00	1.324	0.293	/
	DSI1		Back Side	0	23230	782	25	HIGH	0.19	0.491	20.78	22.00	1.324	0.650	/
	DSI2		Right Edge	0	23230	782	25	MID	0.04	0.015	23.11	24.50	1.377	0.021	/
	DSI1		Top Edge	0	23230	782	25	HIGH	-0.05	0.276	20.78	22.00	1.324	0.365	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Body(n-1)															
Ant.3	DSI2	QPSK	Front Side	15	23230	782	1	MID	0.12	0.092	24.16	25.50	1.361	0.125	/
	DSI2		Back Side	18	23230	782	1	MID	-0.19	0.125	24.16	25.50	1.361	0.170	/
	DSI2		Top Edge	19	23230	782	1	MID	0.07	0.011	24.16	25.50	1.361	0.015	/
	DSI2		Front Side	15	23230	782	25	MID	0.18	0.077	23.11	24.50	1.377	0.106	/
	DSI2		Back Side	18	23230	782	25	MID	-0.03	0.093	23.11	24.50	1.377	0.128	/
	DSI2		Top Edge	19	23230	782	25	MID	-0.13	0.008	23.11	24.50	1.377	0.011	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

11.11 LTE Band 26 (15MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Body															
Ant.3	DSI1	QPSK	Front Side	0	26865	831.5	1	MID	0.17	0.719	19.67	21.00	1.358	0.976	/
	DSI1		Back Side	0	26865	831.5	1	MID	0.00	0.768	19.67	21.00	1.358	1.043	11#
	DSI2		Right Edge	0	26865	831.5	1	MID	-0.13	0.061	24.04	25.50	1.400	0.085	/
	DSI1		Top Edge	0	26865	831.5	1	MID	0.14	0.484	19.67	21.00	1.358	0.657	/
	DSI1		Front Side	0	26865	831.5	36	MID	-0.05	0.702	19.71	21.00	1.346	0.945	/
	DSI1		Back Side	0	26865	831.5	36	MID	0.02	0.733	19.71	21.00	1.346	0.987	/
	DSI2		Right Edge	0	26865	831.5	36	MID	-0.13	0.055	23.04	24.50	1.400	0.077	/
	DSI1		Top Edge	0	26865	831.5	36	MID	0.15	0.401	19.71	21.00	1.346	0.540	/
	DSI1		Back Side	0	26765	821.5	1	MID	0.03	0.722	19.63	21.00	1.371	0.990	/
	DSI1		Back Side	0	26965	841.5	1	MID	0.01	0.705	19.63	21.00	1.371	0.967	/
	DSI1		Back Side	0	26765	821.5	36	HIGH	-0.13	0.692	19.70	21.00	1.349	0.934	/
	DSI1		Back Side	0	26965	841.5	36	MID	-0.11	0.703	19.61	21.00	1.377	0.968	/
	DSI1		Back Side	0	26865	831.5	75	LOW	0.13	0.711	19.67	21.00	1.358	0.966	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Body(n-1)															
Ant.3	DSI2	QPSK	Front Side	15	26865	831.5	1	LOW	-0.10	0.221	24.04	25.50	1.400	0.309	/
	DSI2		Back Side	18	26865	831.5	1	LOW	-0.06	0.267	24.04	25.50	1.400	0.374	/
	DSI2		Top Edge	19	26865	831.5	1	LOW	0.08	0.071	24.04	25.50	1.400	0.099	/
	DSI2		Front Side	15	26865	831.5	36	LOW	0.02	0.181	23.04	24.50	1.400	0.253	/
	DSI2		Back Side	18	26865	831.5	36	LOW	-0.14	0.221	23.04	24.50	1.400	0.309	/
	DSI2		Top Edge	19	26865	831.5	36	LOW	0.09	0.059	23.04	24.50	1.400	0.083	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

11.12 LTE Band 66 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Body															
Ant.3	DSI1	QPSK	Front Side	0	132322	1745	1	LOW	0.02	0.284	9.82	11.50	1.472	0.418	/
	DSI1		Back Side	0	132322	1745	1	LOW	0.17	0.452	9.82	11.50	1.472	0.665	/
	DSI2		Right Edge	0	132322	1745	1	MID	0.12	0.206	23.86	25.50	1.459	0.301	/
	DSI1		Top Edge	0	132322	1745	1	LOW	0.00	0.598	9.82	11.50	1.472	0.880	12#
	DSI1		Front Side	0	132322	1745	50	LOW	-0.01	0.273	9.73	11.50	1.503	0.410	/
	DSI1		Back Side	0	132322	1745	50	LOW	0.08	0.426	9.73	11.50	1.503	0.640	/
	DSI2		Right Edge	0	132322	1745	50	MID	0.02	0.195	22.85	24.50	1.462	0.285	/
	DSI1		Top Edge	0	132322	1745	50	LOW	0.16	0.553	9.73	11.50	1.503	0.831	/
	DSI1		Top Edge	0	132072	1720	1	HIGH	0.14	0.519	9.72	11.50	1.507	0.782	/
	DSI1		Top Edge	0	132572	1770	1	HIGH	-0.15	0.515	9.70	11.50	1.514	0.780	/
	DSI1		Top Edge	0	132072	1720	50	HIGH	-0.06	0.535	9.69	11.50	1.517	0.812	/
	DSI1		Top Edge	0	132572	1770	50	HIGH	-0.04	0.526	9.81	11.50	1.476	0.776	/
	DSI1		Top Edge	0	132572	1770	100	LOW	0.06	0.545	9.88	11.50	1.452	0.791	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Body(n-1)															
Ant.3	DSI2	QPSK	Front Side	15	132322	1745	1	MID	-0.09	0.608	23.86	25.50	1.459	0.887	/
	DSI2		Back Side	18	132322	1745	1	MID	0.03	0.651	23.86	25.50	1.459	0.950	/
	DSI2		Top Edge	19	132322	1745	1	MID	0.08	0.662	23.86	25.50	1.459	0.966	/
	DSI2		Front Side	15	132322	1745	50	MID	-0.01	0.476	22.85	24.50	1.462	0.696	/
	DSI2		Back Side	18	132322	1745	50	MID	0.18	0.570	22.85	24.50	1.462	0.833	/
	DSI2		Top Edge	19	132322	1745	50	MID	0.02	0.572	22.85	24.50	1.462	0.836	/
	DSI2		Top Edge	19	132072	1720	1	HIGH	-0.14	0.558	23.79	25.50	1.483	0.828	/
	DSI2		Top Edge	19	132572	1770	1	MID	-0.18	0.692	23.78	25.50	1.486	1.028	/
	DSI2		Top Edge	19	132072	1720	50	LOW	0.19	0.476	22.78	24.50	1.486	0.707	/
	DSI2		Top Edge	19	132572	1770	50	HIGH	0.00	0.683	22.77	24.50	1.489	1.017	/
	DSI2		Top Edge	19	132322	1745	100	LOW	0.11	0.639	22.79	24.50	1.483	0.948	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

11.13 LTE Band 38 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Body															
Ant.3	DSI1	QPSK	Front Side	0	38000	2595	1	MID	-0.18	0.399	11.40	13.00	1.445	0.577	/
	DSI1		Back Side	0	38000	2595	1	MID	-0.08	0.605	11.40	13.00	1.445	0.874	13#
	DSI2		Right Edge	0	37850	2580	1	MID	0.09	0.104	24.33	25.50	1.309	0.136	/
	DSI1		Top Edge	0	38000	2595	1	MID	-0.19	0.353	11.40	13.00	1.445	0.510	/
	DSI1		Front Side	0	38000	2595	50	MID	0.06	0.383	11.40	13.00	1.445	0.553	/
	DSI1		Back Side	0	38000	2595	50	MID	0.17	0.584	11.40	13.00	1.445	0.844	/
	DSI2		Right Edge	0	37850	2580	50	MID	0.06	0.086	23.29	24.50	1.321	0.114	/
	DSI1		Top Edge	0	38000	2595	50	MID	0.04	0.292	11.40	13.00	1.445	0.422	/
	DSI1		Back Side	0	37850	2580	1	MID	0.03	0.582	11.39	13.00	1.449	0.843	/
	DSI1		Back Side	0	38150	2610	1	MID	-0.05	0.576	11.28	13.00	1.486	0.856	/
	DSI1		Back Side	0	37850	2580	50	MID	0.14	0.563	11.40	13.00	1.445	0.814	/
	DSI1		Back Side	0	38150	2610	50	MID	-0.05	0.544	11.24	13.00	1.500	0.816	/
	DSI1		Back Side	0	37850	2580	100	LOW	0.11	0.565	11.35	13.00	1.462	0.826	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Body(n-1)															
Ant.3	DSI2	QPSK	Front Side	15	37850	2580	1	MID	0.01	0.325	24.33	25.50	1.309	0.425	/
	DSI2		Back Side	18	37850	2580	1	MID	-0.12	0.379	24.33	25.50	1.309	0.496	/
	DSI2		Top Edge	19	37850	2580	1	MID	-0.09	0.652	24.33	25.50	1.309	0.853	/
	DSI2		Front Side	15	37850	2580	50	MID	-0.15	0.259	23.29	24.50	1.321	0.342	/
	DSI2		Back Side	18	37850	2580	50	MID	0.11	0.321	23.29	24.50	1.321	0.424	/
	DSI2		Top Edge	19	37850	2580	50	MID	0.04	0.561	23.29	24.50	1.321	0.741	/
	DSI2		Top Edge	19	38000	2595	1	MID	-0.04	0.459	24.21	25.50	1.346	0.618	/
	DSI2		Top Edge	19	38150	2595	1	MID	-0.04	0.515	24.13	25.50	1.371	0.706	/
	DSI2		Top Edge	19	38000	2595	50	MID	-0.01	0.388	23.21	24.50	1.346	0.522	/
	DSI2		Top Edge	19	38150	2595	50	MID	0.05	0.455	23.07	24.50	1.390	0.632	/
	DSI2		Top Edge	19	37850	2580	100	LOW	0.09	0.546	23.18	24.50	1.355	0.740	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

11.14 LTE Band 41 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Body															
Ant.3	DSI1	QPSK	Front Side	0	40620	2593	1	MID	0.13	0.397	11.95	13.00	1.274	0.506	/
	DSI1		Back Side	0	40620	2593	1	MID	0.05	0.615	11.95	13.00	1.274	0.784	14#
	DSI2		Right Edge	0	41490	2680	1	MID	-0.17	0.075	20.27	21.00	1.125	0.089	/
	DSI1		Top Edge	0	40620	2593	1	MID	-0.15	0.346	11.95	13.00	1.274	0.441	/
	DSI1		Front Side	0	40620	2593	50	MID	0.16	0.362	11.93	13.00	1.279	0.463	/
	DSI1		Back Side	0	40620	2593	50	MID	0.05	0.477	11.93	13.00	1.279	0.610	/
	DSI2		Right Edge	0	41055	2636.5	50	MID	0.12	0.072	20.27	21.00	1.122	0.085	/
	DSI1		Top Edge	0	40620	2593	50	MID	-0.14	0.279	11.93	13.00	1.279	0.357	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Body(n-1)															
Ant.3	DSI2	QPSK	Front Side	15	41490	2680	1	MID	-0.04	0.571	20.27	21.00	1.183	0.675	/
	DSI2		Back Side	18	41490	2680	1	MID	0.19	0.576	20.27	21.00	1.183	0.681	/
	DSI2		Top Edge	19	41490	2680	1	MID	0.16	0.750	20.27	21.00	1.183	0.887	/
	DSI2		Front Side	15	41055	2636.5	50	MID	-0.16	0.566	20.27	21.00	1.183	0.670	/
	DSI2		Back Side	18	41055	2636.5	50	MID	-0.12	0.543	20.27	21.00	1.183	0.642	/
	DSI2		Top Edge	19	41055	2636.5	50	MID	-0.03	0.595	20.27	21.00	1.183	0.704	/
	DSI2		Top Edge	19	39750	2506	1	MID	-0.13	0.726	20.18	21.00	1.208	0.877	/
	DSI2		Top Edge	19	40185	2549	1	LOW	0.09	0.677	20.16	21.00	1.213	0.821	/
	DSI2		Top Edge	19	40620	2593	1	MID	0.09	0.625	19.45	21.00	1.429	0.893	/
	DSI2		Top Edge	19	41055	2636.5	1	HIGH	-0.15	0.733	20.63	21.00	1.089	0.798	/
	DSI2		Top Edge	19	39750	2506	50	HIGH	-0.13	0.672	19.97	21.00	1.268	0.852	/
	DSI2		Top Edge	19	40185	2549	50	MID	-0.11	0.646	20.03	21.00	1.250	0.808	/
	DSI2		Top Edge	19	40620	2593	50	LOW	0.05	0.658	19.37	21.00	1.455	0.957	/
	DSI2		Top Edge	19	41490	2680	50	MID	-0.07	0.674	20.18	21.00	1.208	0.814	/
	DSI2		Top Edge	19	41490	2680	100	LOW	-0.08	0.654	20.12	21.00	1.225	0.801	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

11.15 WIFI 2.4GHz

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift(dB)	1 g Meas SAR(W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Body															
Ant.1	DSI1	802.11 b	Front Side	0	11	2462	0.05	0.325	99.59	1.004	11.56	12.50	1.242	0.405	/
	DSI1		Back Side	0	11	2462	-0.09	0.668	99.59	1.004	11.56	12.50	1.242	0.833	15#
	DSI2		Left Edge	0	11	2462	0.09	0.018	99.59	1.004	17.98	18.00	1.005	0.018	/
	DSI1		Top Edge	0	11	2462	0.04	0.431	99.59	1.004	11.56	12.50	1.242	0.537	/
	DSI1		Back Side	0	1	2412	-0.13	0.569	99.59	1.004	11.09	12.50	1.384	0.791	/
	DSI1		Back Side	0	6	2437	-0.14	0.592	99.59	1.004	11.08	12.50	1.387	0.824	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR(W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Body(n-1)															
Ant.1	DSI2	802.11 b	Front Side	15	11	2462	0.12	0.185	99.59	1.004	17.98	18.00	1.005	0.187	/
	DSI2		Back Side	15	11	2462	0.09	0.353	99.59	1.004	17.98	18.00	1.005	0.356	/
	DSI2		Top Edge	15	11	2462	-0.11	0.347	99.59	1.004	17.98	18.00	1.005	0.350	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

11.16 WIFI 5GHz

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Body															
Ant.1	DSI1	5.3G 802.11ac80	Front Side	0	58	5290	-0.06	0.171	90.18	1.109	7.99	8.50	1.125	0.213	/
	DSI1	5.3G 802.11ac80	Back Side	0	58	5290	-0.14	0.463	90.18	1.109	7.99	8.50	1.125	0.578	16#
	DSI2	5.3G 802.11a	Left Edge	0	64	5320	0.02	0.013	90.18	1.109	17.56	18.00	1.107	0.016	/
	DSI1	5.3G 802.11ac80	Top Edge	0	58	5290	0.11	0.230	90.18	1.109	7.99	8.50	1.125	0.287	/
Ant.1	DSI1	5.6G 802.11ac80	Front Side	0	106	5530	-0.11	0.150	90.18	1.109	7.96	8.50	1.132	0.188	/
	DSI1	5.6G 802.11ac80	Back Side	0	106	5530	0.14	0.356	90.18	1.109	7.96	8.50	1.132	0.447	/
	DSI2	5.6G 802.11a	Left Edge	0	116	5580	-0.13	0.011	90.18	1.109	17.01	18.00	1.256	0.015	/
	DSI1	5.6G 802.11ac80	Top Edge	0	106	5530	-0.02	0.395	90.18	1.109	7.96	8.50	1.132	0.496	17#
Ant.1	DSI1	5.8G 802.11ac80	Front Side	0	155	5775	-0.03	0.159	90.18	1.109	7.36	8.50	1.300	0.229	/
	DSI1	5.8G 802.11ac80	Back Side	0	155	5775	-0.13	0.212	90.18	1.109	7.36	8.50	1.300	0.306	/
	DSI2	5.8G 802.11a	Left Edge	0	149	5745	-0.12	0.008	90.18	1.109	17.94	18.00	1.014	0.009	/
	DSI1	5.8G 802.11ac80	Top Edge	0	155	5775	0.05	0.291	90.18	1.109	7.36	8.50	1.300	0.420	18#
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR(W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Body(n-1)															
Ant.1	DSI2	5.2G 802.11a	Front Side	15	64	5320	-0.05	0.181	97.50	1.026	17.56	18.00	1.107	0.206	/
	DSI2		Back Side	15	64	5320	-0.15	0.500	97.50	1.026	17.56	18.00	1.107	0.568	/
	DSI2		Top Edge	15	64	5320	-0.15	0.251	97.50	1.026	17.56	18.00	1.107	0.285	/
Ant.1	DSI2	5.6G 802.11a	Front Side	15	116	5580	-0.05	0.275	97.50	1.026	17.01	18.00	1.256	0.354	/
	DSI2		Back Side	15	116	5580	0.13	0.642	97.50	1.026	17.01	18.00	1.256	0.827	/
	DSI2		Top Edge	15	116	5580	-0.13	0.271	97.50	1.026	17.01	18.00	1.256	0.349	/
	DSI2		Back Side	15	100	5500	-0.13	0.253	97.50	1.026	13.84	15.00	1.306	0.339	/
	DSI2		Back Side	15	140	5700	0.19	0.313	97.50	1.026	13.07	14.50	1.390	0.446	/
Ant.1	DSI2	5.8G 802.11a	Front Side	15	149	5745	-0.19	0.135	97.50	1.026	17.94	18.00	1.014	0.140	/
	DSI2		Back Side	15	149	5745	-0.11	0.223	97.50	1.026	17.94	18.00	1.014	0.232	/
	DSI2		Top Edge	15	149	5745	-0.05	0.317	97.50	1.026	17.94	18.00	1.014	0.330	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

11.17 Bluetooth

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift(dB)	1 g Meas SAR(W/kg)	Duty cycle Setting	Duty cycle Factor	Meas. Power (dBm)	Max. tune power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Body														
Ant.1	DH5	Front Side	0	39	2441	0.17	0.134	76.88	1.301	8.69	9.00	1.074	0.187	/
		Back Side	0	39	2441	-0.04	0.209	76.88	1.301	8.69	9.00	1.074	0.292	19#
		Left Edge	0	39	2441	0.09	0.005	76.88	1.301	8.69	9.00	1.074	0.007	/
		Top Edge	0	39	2441	-0.14	0.192	76.88	1.301	8.69	9.00	1.074	0.268	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

12 SAR Measurement Variability

According to KDB 865664 D01, SAR measurement variability was assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. Alternatively, if the highest measured SAR for both head and body tissue-equivalent media are ≤ 1.45 W/kg and the ratio of these highest SAR values, i.e., largest divided by smallest value, is ≤ 1.10 , the highest SAR configuration for either head or body tissue-equivalent medium may be used to perform the repeated measurement. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR repeated measurement procedure:

1. When the highest measured SAR is < 0.80 W/kg, repeated measurement is not required.
2. When the highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
3. If the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 , or when the original or repeated measurement is ≥ 1.45 W/kg, perform a second repeated measurement.
4. If the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 , and the original, first or second repeated measurement is ≥ 1.5 W/kg, perform a third repeated measurement.

Frequency Band (MHz)	Wireless Band	RF Exposure Conditions	Test Position	Highest Measured SAR (W/kg)	Repeated SAR (Yes/No)	Repeated ^{1st} Measured SAR (W/kg)	Largest to Smallest SAR Radio
1880.0	WCDMA Band2	Body	Top Edge	0.884	Yes	0.876	1.01
2510	LTE band 7	Body	Top Edge	0.943	Yes	0.912	1.03

Note: The ratio of largest to smallest SAR for the original and first repeated measurements is < 1.20 , the second repeated measurement. is not required.

13 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).

13.1 Simultaneous Transmission Mode Consider

No.	Simultaneous Tx Combination	Body-worn
1	WWAN+WIFI2.4G	Yes
2	WWAN+WIFI5G+BT	Yes

Note:

- 1. The maximum SAR summation is calculated based on the same configuration and test position.
- 2. The simultaneous transmission combinations of the more antennas contain combinations of less antennas, so only the worst simultaneous transmission combinations is shown in this report.

13.2 Sum SAR of Simultaneous Transmission

13.2.1 Body Simultaneous Transmission SAR Evaluation for WWAN and WLAN

Band	Antenna	Position	Stand alone SAR				SUM SAR		SPLSR	
			1	2	3	4				
			WWAN	2.4GWIFI	MAX.5GWIFI	Bluetooth	1+2	1+3+4	1+2	1+3+4
GSM850	3	Front Side 0mm	0.548	0.405	0.229	0.258	0.953	1.035	/	/
	3	Back Side 0mm	0.752	0.833	0.578	0.292	1.585	1.622	/	/
	3	Left Side 0mm	0.000	0.018	0.016	0.007	0.018	0.023	/	/
	3	Right Side 0mm	0.109	0.000	0.000	0.000	0.109	0.109	/	/
	3	Top Side 0mm	0.532	0.537	0.496	0.268	1.069	1.296	/	/
	3	Bottom Side 0mm	0.000	0.000	0.000	0.000	0.000	0.000	/	/
GSM1900	3	Front Side 0mm	0.404	0.405	0.229	0.258	0.809	0.891	/	/
	3	Back Side 0mm	0.606	0.833	0.578	0.292	1.439	1.476	/	/
	3	Left Side 0mm	0.000	0.018	0.016	0.007	0.018	0.023	/	/
	3	Right Side 0mm	0.152	0.000	0.000	0.000	0.152	0.152	/	/
	3	Top Side 0mm	1.016	0.537	0.496	0.268	1.553	1.780	/	/
	3	Bottom Side 0mm	0.000	0.000	0.000	0.000	0.000	0.000	/	/
WCDMA B2	3	Front Side 0mm	0.400	0.405	0.229	0.258	0.805	0.887	/	/
	3	Back Side 0mm	0.556	0.833	0.578	0.292	1.389	1.426	/	/
	3	Left Side 0mm	0.000	0.018	0.016	0.007	0.018	0.023	/	/
	3	Right Side 0mm	0.268	0.000	0.000	0.000	0.268	0.268	/	/
	3	Top Side 0mm	1.001	0.537	0.496	0.268	1.538	1.765	/	/
	3	Bottom Side 0mm	0.000	0.000	0.000	0.000	0.000	0.000	/	/
WCDMA B4	3	Front Side 0mm	0.374	0.405	0.229	0.258	0.779	0.861	/	/
	3	Back Side 0mm	0.624	0.833	0.578	0.292	1.457	1.494	/	/
	3	Left Side 0mm	0.000	0.018	0.016	0.007	0.018	0.023	/	/
	3	Right Side 0mm	0.276	0.000	0.000	0.000	0.276	0.276	/	/
	3	Top Side 0mm	1.030	0.537	0.496	0.268	1.567	1.794	/	/
	3	Bottom Side 0mm	0.000	0.000	0.000	0.000	0.000	0.000	/	/
WCDMA B5	3	Front Side 0mm	0.502	0.405	0.229	0.258	0.907	0.989	/	/
	3	Back Side 0mm	0.856	0.833	0.578	0.292	1.689	1.726	/	/
	3	Left Side 0mm	0.000	0.018	0.016	0.007	0.018	0.023	/	/
	3	Right Side 0mm	0.122	0.000	0.000	0.000	0.122	0.122	/	/
	3	Top Side 0mm	0.498	0.537	0.496	0.268	1.035	1.262	/	/
	3	Bottom Side 0mm	0.000	0.000	0.000	0.000	0.000	0.000	/	/
LTE B2	3	Front Side 0mm	0.382	0.405	0.229	0.258	0.787	0.869	/	/
	3	Back Side 0mm	0.546	0.833	0.578	0.292	1.379	1.416	/	/
	3	Left Side 0mm	0.000	0.018	0.016	0.007	0.018	0.023	/	/
	3	Right Side 0mm	0.337	0.000	0.000	0.000	0.337	0.337	/	/
	3	Top Side 0mm	0.964	0.537	0.496	0.268	1.501	1.728	/	/
	3	Bottom Side 0mm	0.000	0.000	0.000	0.000	0.000	0.000	/	/

LTE B4	3	Front Side 0mm	0.338	0.405	0.229	0.258	0.743	0.825	/	/
	3	Back Side 0mm	0.546	0.833	0.578	0.292	1.379	1.416	/	/
	3	Left Side 0mm	0.000	0.018	0.016	0.007	0.018	0.023	/	/
	3	Right Side 0mm	0.248	0.000	0.000	0.000	0.248	0.248	/	/
	3	Top Side 0mm	0.842	0.537	0.496	0.268	1.379	1.606	/	/
	3	Bottom Side 0mm	0.000	0.000	0.000	0.000	0.000	0.000	/	/
LTE B5	3	Front Side 0mm	0.205	0.405	0.229	0.258	0.610	0.692	/	/
	3	Back Side 0mm	0.478	0.833	0.578	0.292	1.311	1.348	/	/
	3	Left Side 0mm	0.000	0.018	0.016	0.007	0.018	0.023	/	/
	3	Right Side 0mm	0.180	0.000	0.000	0.000	0.180	0.180	/	/
	3	Top Side 0mm	0.215	0.537	0.496	0.268	0.752	0.979	/	/
	3	Bottom Side 0mm	0.000	0.000	0.000	0.000	0.000	0.000	/	/
LTE B7	3	Front Side 0mm	0.364	0.405	0.229	0.258	0.769	0.851	/	/
	3	Back Side 0mm	0.943	0.833	0.578	0.292	1.776	1.813	/	/
	3	Left Side 0mm	0.000	0.018	0.016	0.007	0.018	0.023	/	/
	3	Right Side 0mm	0.228	0.000	0.000	0.000	0.228	0.228	/	/
	3	Top Side 0mm	1.044	0.537	0.496	0.268	1.581	1.808	/	0.02 ^{3#}
	3	Bottom Side 0mm	0.000	0.000	0.000	0.000	0.000	0.000	/	/
LTE B13	3	Front Side 0mm	0.387	0.405	0.229	0.258	0.792	0.874	/	/
	3	Back Side 0mm	0.876	0.833	0.578	0.292	1.709	1.746	/	/
	3	Left Side 0mm	0.000	0.018	0.016	0.007	0.018	0.023	/	/
	3	Right Side 0mm	0.050	0.000	0.000	0.000	0.050	0.050	/	/
	3	Top Side 0mm	0.560	0.537	0.496	0.268	1.097	1.324	/	/
	3	Bottom Side 0mm	0.000	0.000	0.000	0.000	0.000	0.000	/	/
LTE B26	3	Front Side 0mm	0.976	0.405	0.229	0.258	1.381	1.463	/	/
	3	Back Side 0mm	1.043	0.833	0.578	0.292	1.876	1.913	0.02 ^{1#}	0.02 ^{2#}
	3	Left Side 0mm	0.000	0.018	0.016	0.007	0.018	0.023	/	/
	3	Right Side 0mm	0.085	0.000	0.000	0.000	0.085	0.085	/	/
	3	Top Side 0mm	0.657	0.537	0.496	0.268	1.194	1.421	/	/
	3	Bottom Side 0mm	0.000	0.000	0.000	0.000	0.000	0.000	/	/
LTE B66	3	Front Side 0mm	0.418	0.405	0.229	0.258	0.823	0.905	/	/
	3	Back Side 0mm	0.665	0.833	0.578	0.292	1.498	1.535	/	/
	3	Left Side 0mm	0.000	0.018	0.016	0.007	0.018	0.023	/	/
	3	Right Side 0mm	0.301	0.000	0.000	0.000	0.301	0.301	/	/
	3	Top Side 0mm	0.880	0.537	0.496	0.268	1.417	1.644	/	/
	3	Bottom Side 0mm	0.000	0.000	0.000	0.000	0.000	0.000	/	/
LTE B38	3	Front Side 0mm	0.577	0.405	0.229	0.258	0.982	1.064	/	/
	3	Back Side 0mm	0.874	0.833	0.578	0.292	1.707	1.744	/	/
	3	Left Side 0mm	0.000	0.018	0.016	0.007	0.018	0.023	/	/
	3	Right Side 0mm	0.136	0.000	0.000	0.000	0.136	0.136	/	/
	3	Top Side 0mm	0.510	0.537	0.496	0.268	1.047	1.274	/	/
	3	Bottom Side 0mm	0.000	0.000	0.000	0.000	0.000	0.000	/	/
LTE B41	3	Front Side 0mm	0.567	0.405	0.229	0.258	0.972	1.054	/	/

	3	Back Side 0mm	0.879	0.833	0.578	0.292	1.712	1.749	/	/
	3	Left Side 0mm	0.000	0.018	0.016	0.007	0.018	0.023	/	/
	3	Right Side 0mm	0.131	0.000	0.000	0.000	0.131	0.131	/	/
	3	Top Side 0mm	0.494	0.537	0.496	0.268	1.031	1.258	/	/
	3	Bottom Side 0mm	0.000	0.000	0.000	0.000	0.000	0.000	/	/

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 $1.913\text{W/Kg} > 1.6\text{W/kg}$, so Simultaneous Transmission SAR test exclusion is determined by the SAR to peak location separation ratio.
- 3: The SPLSR is ≤ 0.04 , so Simultaneous Transmission SAR test is not required.
- 4: The Table WWAN antenna is located on the same antenna position, so only the SPLSR of the maximum SAR sum value in WWAN+WIFI2.4G and WWAN+WIFI5G+BT is listed in the table, and the nearest coordinate distance in all combinations at the same position is used to calculate the SPLSR. For details, see Table 1 and Table 2.

Table1: SAR peak location for Back Side

No.	Band	Antenna	Position	SAR (W/kg)	SAR peak location (m)		
					X	Y	Z
1	GSM850	ANT3	Back Side 0mm	0.752	-0.011	0.080	-0.176
2	WCDMA B5	ANT3	Back Side 0mm	0.856	-0.010	0.080	-0.176
3	LTE B7	ANT3	Back Side 0mm	0.943	-0.010	0.087	-0.176
4	LTE B13	ANT3	Back Side 0mm	0.876	-0.011	0.079	-0.176
5	LTE B26	ANT3	Back Side 0mm	1.043	-0.010	0.079	-0.176
6	LTE B38	ANT3	Back Side 0mm	0.874	-0.009	0.088	-0.176
7	LTE B41	ANT3	Back Side 0mm	0.879	-0.009	0.087	-0.176
8	WIFI 2.4G	ANT1	Back Side 0mm	0.833	0.079	-0.064	-0.176
9	WIFI 5G	ANT1	Back Side 0mm	0.578	0.078	-0.066	-0.176
10	BT	ANT1	Back Side 0mm	0.292	0.079	-0.066	-0.176

Note: This table lists the SAR peak location and SAR values of all the frequency bands that need to be calculated for SPLSR. In this report, the SAR peak location with the closest distance in WWAN+WIFI2.4G and WWAN+WIFI5G+BT are selected for SPLSR calculation, and the largest SAR sum value in multiple combinations are selected for SPLSR calculation.

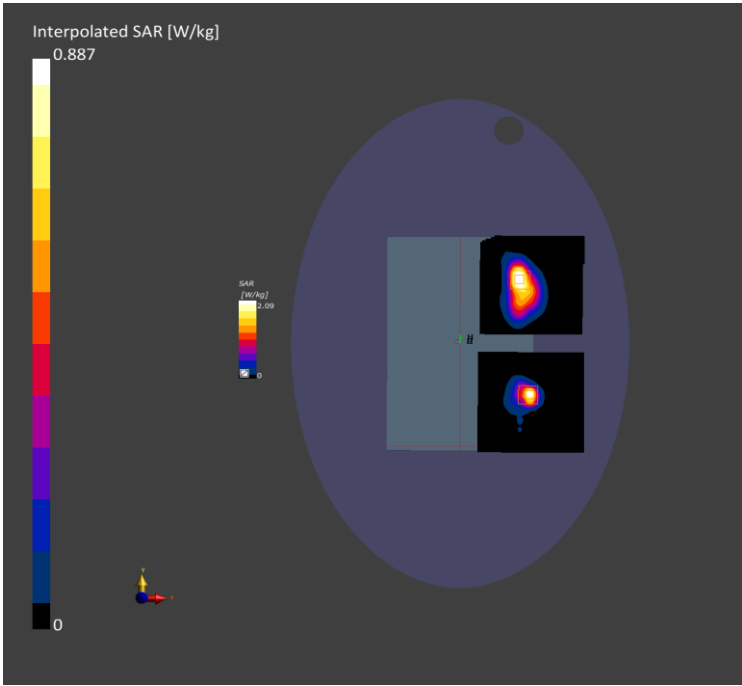
Table2: SAR peak location for Top Side

No.	Band	Antenna	Position	SAR (W/kg)	SAR peak location (m)		
					X	Y	Z
1	GSM1900	ANT3	Top Side 0mm	1.016	-0.013	0.071	-0.177
2	WCDMA B2	ANT3	Top Side 0mm	1.001	-0.015	0.069	-0.177
3	WCDMA B4	ANT3	Top Side 0mm	1.030	-0.014	0.071	-0.177
4	LTE B2	ANT3	Top Side 0mm	0.964	-0.014	0.072	-0.177
5	LTE B4	ANT3	Top Side 0mm	0.842	-0.015	0.071	-0.177
6	LTE B7	ANT3	Top Side 0mm	1.044	-0.015	0.075	-0.177
7	LTE B66	ANT3	Top Side 0mm	0.880	-0.017	0.072	-0.177
8	WIFI 5G	ANT1	Top Side 0mm	0.496	-0.004	-0.070	-0.176
9	BT	ANT1	Top Side 0mm	0.268	-0.005	-0.072	-0.176

Note: This table lists the SAR peak location and SAR values of all the frequency bands that need to be calculated for SPLSR. In this report, the SAR peak location with the closest distance in WWAN+WIFI2.4G and WWAN+WIFI5G+BT are selected for SPLSR calculation, and the largest SAR sum value in multiple combinations are selected for SPLSR calculation.

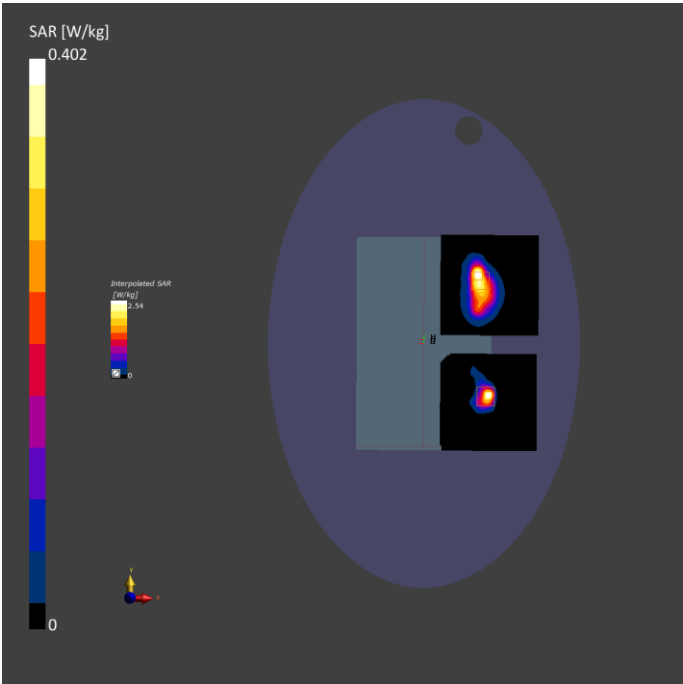
SPLSR Analysis 1#

Case 1	Band	Position	SAR (W/kg)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Plot No				X	Y	Z				
1	Max. WWAN	Back Side	1.043	-0.009802	0.079492	-0.175523	168.8	1.88	0.02	Not required
2	WLAN2.4G		0.833	7.88E-02	-0.064192	-0.175564				



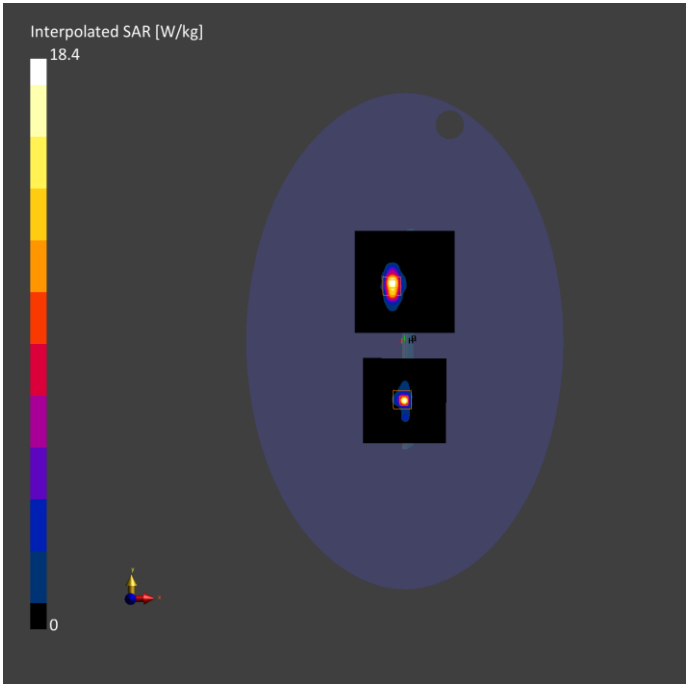
SPLSR Analysis 2#

Case 2	Band	Position	SAR (W/kg)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Plot No				X	Y	Z				
1	Max. WWAN	Back Side	1.043	-0.009802	0.079492	-0.175523	169.9	1.91	0.02	Not required
2	WLAN5G+BT		0.870	7.80E-02	-0.065992	-0.175575				



SPLSR Analysis 3#

Case 3	Band	Position	SAR (W/kg)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Plot No				X	Y	Z				
1	Max. WWAN	Top Side	1.044	-0.015	0.069	-0.177	138.9	1.81	0.02	Not required
2	WLAN5G+BT		0.764	-0.004	-0.070	-0.176				



14 TEST EQUIPMENTS LIST

Description	Manufacturer	Model	Serial No./Version	Cal. Date	Cal. Due
PC	Dell	N/A	N/A	N/A	N/A
Test Software	Speag	DASY8	16.2.2.1588	N/A	N/A
750MHz Validation Dipole	Speag	D750V3	SN: 1208	2024/08/19	2027/08/18
835MHz Validation Dipole	Speag	D835V2	SN: 4d187	2024/05/08	2027/05/07
1750MHz Validation Dipole	Speag	D1750V2	SN: 1130	2024/05/08	2027/05/07
1950MHz Validation Dipole	Speag	D1950V3	SN: 1240	2024/08/22	2027/08/21
2450MHz Validation Dipole	Speag	D2450V2	SN: 952	2024/05/07	2027/05/06
2600MHz Validation Dipole	Speag	D2600V2	SN: 1095	2024/05/08	2027/05/07
5GHz Validation Dipole	Speag	D5GHzV2	SN: 1200	2024/05/09	2027/05/08
Data Acquisition Electronicsr	Speag	DAE4	SN: 1711	2024/03/18	2025/03/17
E-Field Probe	Speag	EX3DV4	SN: 7510	2024/06/25	2025/06/24
Data Acquisition Electronicsr	Speag	DAE4	SN: 1710	2025/01/20	2026/01/19
E-Field Probe	Speag	EX3DV4	SN: 7893	2024/09/05	2025/09/04
Signal Generator	R&S	SMB100A	177746	2024/04/24	2025/04/23
Power Meter	R&S	NRVD-B2	835843/014	2024/08/08	2025/08/07
Power Sensor	R&S	NRV-Z4	100381	2024/08/08	2025/08/07
Power Sensor	R&S	NRV-Z2	100211	2024/08/08	2025/08/07
Wireless Communication Test Set	Anritsu	MT8820C	6201144551	2024/05/14	2025/05/13
Network Analyzer	Agilent	E5071C	MY46103472	2024/09/11	2025/09/10
Thermometer	Elitech	RC-4HC	EF7216002985	2024/10/31	2025/10/30
Thermometer	Elitech	RC-4HC	EF720B004811	2024/10/31	2025/10/30
Power Amplifier	Mini-Circuits	ZVA-183W-S+	932502132	N/A	N/A
Dielectric Probe Kit	Speag	DAK3.5	SN: 1312	N/A	N/A
Phantom	Speag	ELI V8.0	SN: 2162	N/A	N/A
Phantom	Speag	ELI V8.0	SN: 2159	N/A	N/A
Attenuator	COM-MW	ZA-S1-31	1305003187	N/A	N/A
Directional coupler	AA-MCS	AAMCS-UDC	000272	N/A	N/A

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

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

ANNEX A SIMULATING LIQUID VERIFICATION RESULT

The dielectric parameters of the liquids were verified prior to the SAR evaluation using a DAK 3.5 Dielectric Probe Kit.

Head Liquid

Date	Liquid Type	Fre. (MHz)	Temp. (°C)	Meas. Conductivity (σ) (S/m)	Meas. Permittivity (ϵ)	Target Conductivity (σ) (S/m)	Target Permittivity (ϵ)	Conductivity Tolerance (%)	Permittivity Tolerance (%)
2025.02.22	Head	750	21.1	0.88	41.00	0.89	41.94	-1.12	-2.24
2025.02.21	Head	835	21.6	0.91	41.47	0.90	41.50	1.11	-0.07
2025.02.22	Head	835	21.3	0.91	41.42	0.90	41.50	1.11	-0.19
2025.02.23	Head	835	21.7	0.88	42.11	0.90	41.50	-2.22	1.47
2025.02.23	Head	835	21.7	0.92	41.07	0.90	41.50	2.22	-1.04
2025.02.27	Head	1750	21.1	1.34	38.76	1.37	40.08	-2.19	-3.29
2025.02.24	Head	1750	21.2	1.40	38.66	1.37	40.08	2.19	-3.54
2025.02.25	Head	1950	21.9	1.42	39.17	1.40	40.00	1.43	-2.08
2025.02.26	Head	1950	21.7	1.41	39.19	1.40	40.00	0.71	-2.03
2025.02.18	Head	2450	21.1	1.79	39.52	1.80	39.20	-0.56	0.82
2025.02.25	Head	2600	21.0	1.99	37.97	1.96	39.01	1.53	-2.67
2025.02.26	Head	2600	22.1	1.95	38.66	1.96	39.01	-0.51	-0.90
2025.02.19	Head	5250	21.5	4.82	36.01	4.71	35.93	2.34	0.22
2025.02.20	Head	5600	21.7	5.18	36.06	5.07	35.53	2.17	1.49
2025.02.21	Head	5750	21.7	5.13	35.64	5.22	35.36	-1.72	0.79

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

ANNEX B SYSTEM CHECK RESULT

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

Head liquid 1g

Date	Liquid Type	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)
2025.02.22	Head	750	100	0.87	8.68	8.46	2.60
2025.02.21	Head	835	100	0.98	9.81	9.74	0.72
2025.02.22	Head	835	100	0.96	9.56	9.74	-1.85
2025.02.23	Head	835	100	0.95	9.47	9.74	-2.77
2025.02.23	Head	835	100	0.97	9.72	9.74	-0.21
2025.02.27	Head	1750	100	3.56	35.60	37.00	-3.78
2025.02.24	Head	1750	100	3.42	34.20	37.00	-7.57
2025.02.25	Head	1950	100	4.02	40.20	41.70	-3.60
2025.02.26	Head	1950	100	3.95	39.50	41.70	-5.28
2025.02.18	Head	2450	100	5.27	52.70	52.60	0.19
2025.02.25	Head	2600	100	5.69	56.90	55.90	1.79
2025.02.26	Head	2600	100	5.54	55.40	55.90	-0.89
2025.02.19	Head	5250	100	7.75	77.50	77.70	-0.26
2025.02.20	Head	5600	100	8.04	80.40	81.30	-1.11
2025.02.21	Head	5750	100	7.670	76.70	77.60	-1.16
Note: The tolerance limit of System validation $\pm 10\%$.							

System Performance Check Data (750MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL		CD700	CW, 0--	750.0, 100	10.29	0.879	41.0	22.1	21.1

Hardware Setup

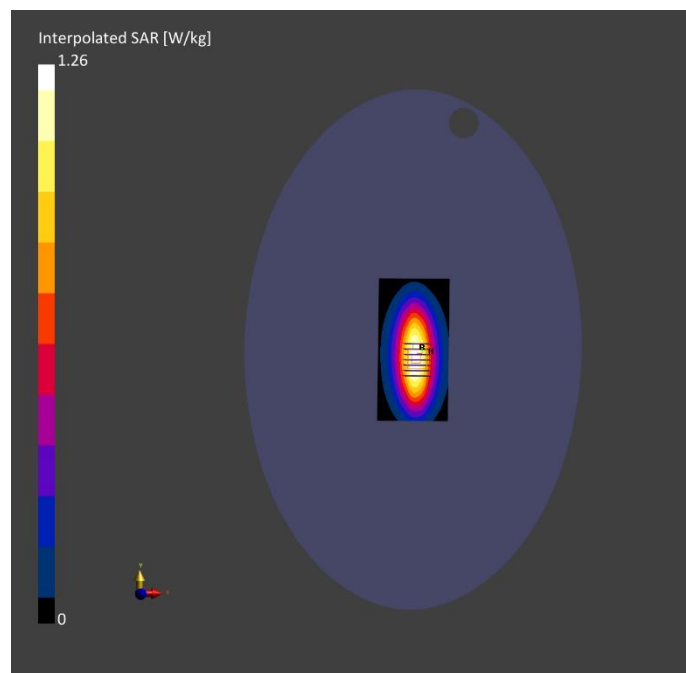
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2162	HBBL-600-10000	2025-02-22	EX3DV4 - SN7510,	2024-06-25	DAE4 Sn1710, 2025-01-20

Scan Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-22	2025-02-22
psSAR1g [W/kg]	0.815	0.868
psSAR10g [W/kg]	0.546	0.562
Power Drift [dB]	-0.01	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		86.3
Dist 3dB Peak [mm]		22.8



System Performance Check Data (835MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL		CD835	CW, 0--	835.0, 50	9.99	0.905	41.5	22.5	21.6

Hardware Setup

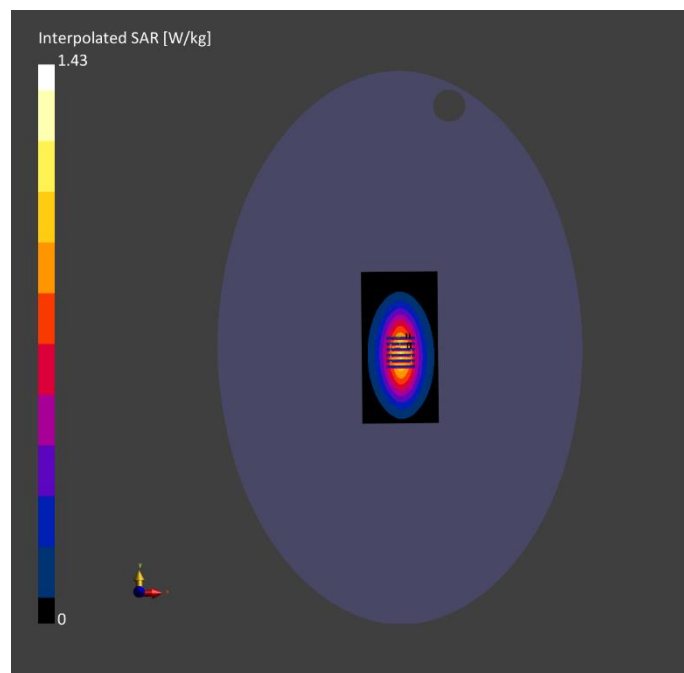
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2162	HBBL-600-10000	2025-02-21	EX3DV4 - SN7510,	2024-06-25	DAE4 Sn1710, 2025-01-20

Scan Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-21	2025-02-21
psSAR1g [W/kg]	0.938	0.981
psSAR10g [W/kg]	0.617	0.644
Power Drift [dB]	0.02	0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		86.9
Dist 3dB Peak [mm]		19.5



System Performance Check Data (835MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL		CD835	CW, 0--	835.0, 50	8.85	0.909	41.4	22.4	21.3

Hardware Setup

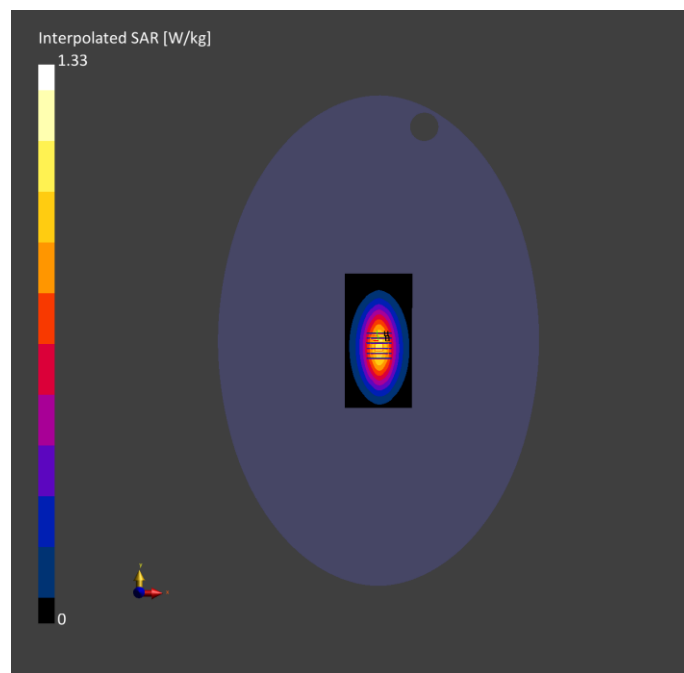
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000	2025-02-22	EX3DV4 - SN7893,	2024-09-05	DAE4 Sn17111, 2024-03-18

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	2025-02-22	2025-02-22
psSAR1g [W/kg]	0.949	0.956
psSAR10g [W/kg]	0.614	0.621
Power Drift [dB]	0.01	0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		86.4
Dist 3dB Peak [mm]		19.4



System Performance Check Data (835MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL		CD835	CW, 0--	835.0, 50	8.85	0.875	42.1	22.6	21.7

Hardware Setup

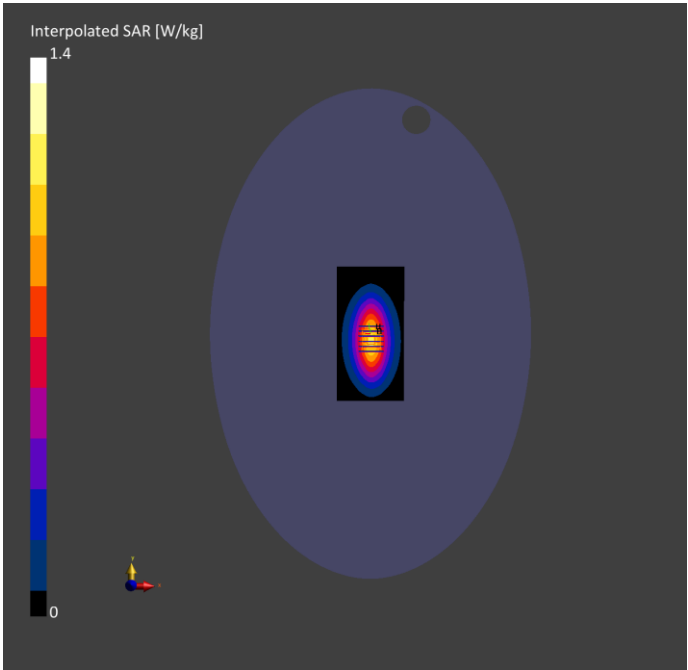
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000	2025-02-23	EX3DV4 - SN7893,	2024-09-05	DAE4 Sn1711, 2024-03-18

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	2025-02-23	2025-02-23
psSAR1g [W/kg]	0.937	0.947
psSAR10g [W/kg]	0.601	0.617
Power Drift [dB]	-0.01	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		86.8
Dist 3dB Peak [mm]		19.3



System Performance Check Data (835MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL		CD835	CW, 0--	835.0, 50	10.3	0.870	41.5	22.1	21.1

Hardware Setup

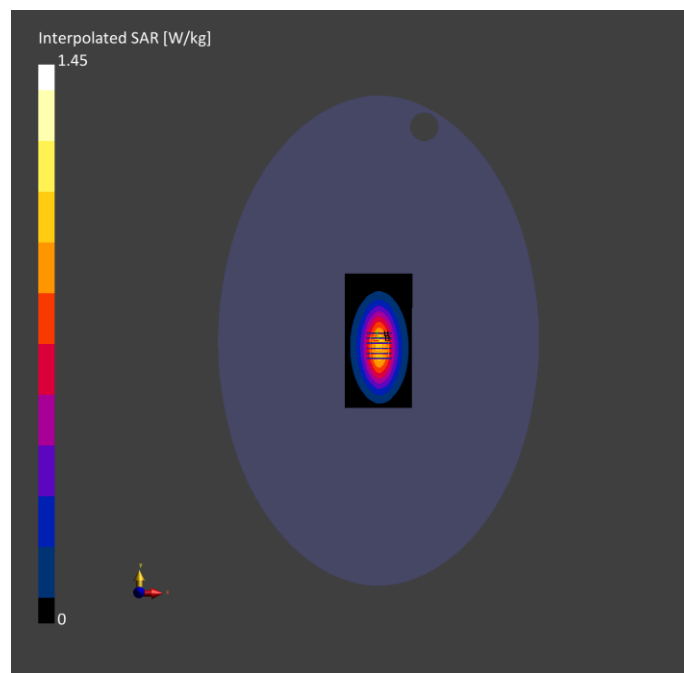
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2162	HBBL-600-10000	2025-02-23	EX3DV4 - SN7510,	2024-06-25	DAE4 Sn1710, 2025-01-20

Scan Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-23	2025-02-23
psSAR1g [W/kg]	0.966	0.972
psSAR10g [W/kg]	0.627	0.627
Power Drift [dB]	0.04	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		87.3
Dist 3dB Peak [mm]		19.8



System Performance Check Data (1750MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL		D1750	CW, 0--	1750.0, 50	7.57	1.34	38.8	22.9	21.1

Hardware Setup

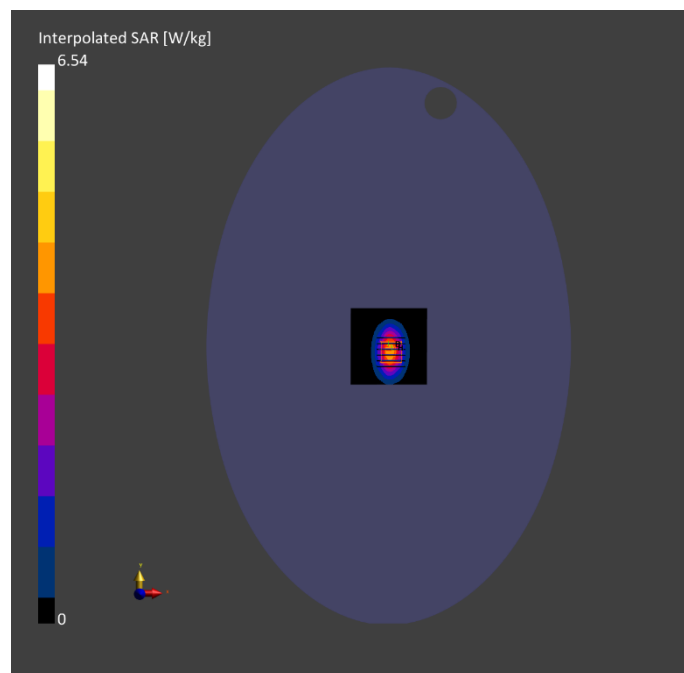
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000	2025-02-27	EX3DV4 - SN7893,	2024-09-05	DAE4 Sn1711, 2024-03-18

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	2025-02-27	2025-02-27
psSAR1g [W/kg]	3.53	3.56
psSAR10g [W/kg]	1.90	1.92
Power Drift [dB]	-0.02	-0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		82.3
Dist 3dB Peak [mm]		10.7



System Performance Check Data (1750MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL		D1750	CW, 0--	1750.0, 50	7.57	1.40	38.7	22.6	21.2

Hardware Setup

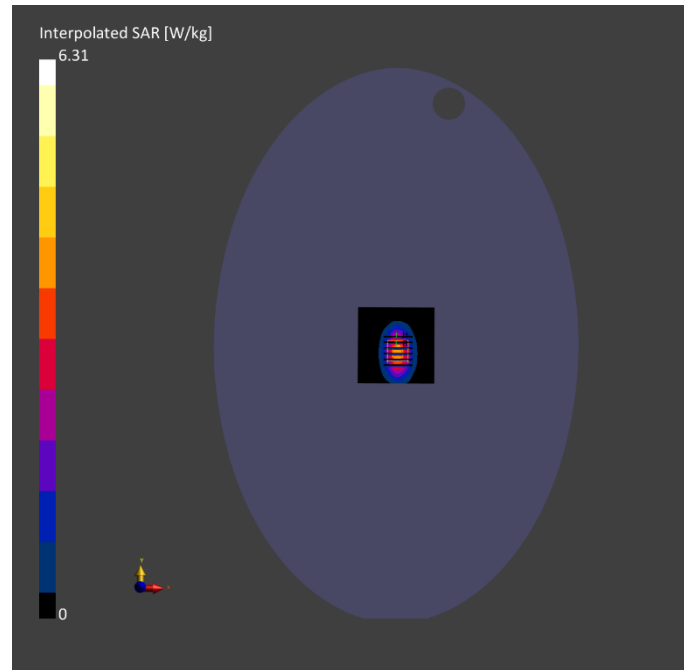
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000	2025-02-24	EX3DV4 - SN7893,	2024-09-05	DAE4 Sn17111, 2024-03-18

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	2025-02-24	2025-02-24
psSAR1g [W/kg]	3.40	3.42
psSAR10g [W/kg]	1.83	1.84
Power Drift [dB]	-0.00	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.9
Dist 3dB Peak [mm]		9.6



System Performance Check Data (1950MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL		D1950	CW, 0--	1950.0, 50	7.34	1.42	39.2	22.8	21.9

Hardware Setup

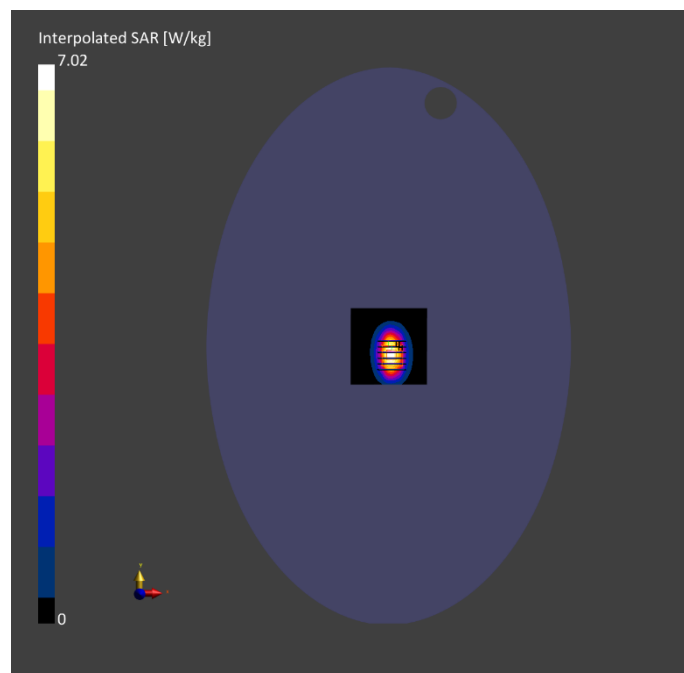
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000	2025-02-25	EX3DV4 - SN7893,	2024-09-05	DAE4 Sn17111, 2024-03-18

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	2025-02-25	2025-02-25
psSAR1g [W/kg]	3.80	4.02
psSAR10g [W/kg]	2.01	2.10
Power Drift [dB]	-0.05	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		82.1
Dist 3dB Peak [mm]		9.6



System Performance Check Data (1950MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL		D1950	CW, 0--	1950.0, 50	7.34	1.41	39.2	22.4	21.7

Hardware Setup

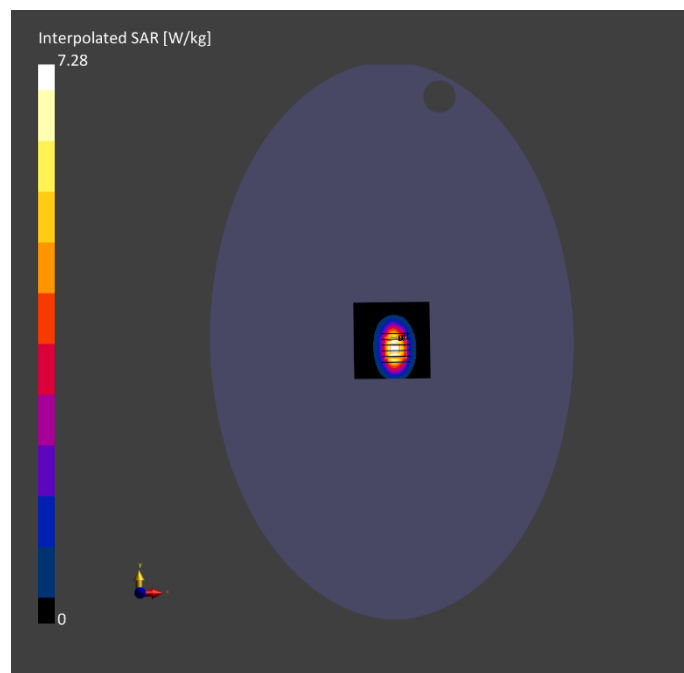
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000	2025-02-26	EX3DV4 - SN7893,	2024-09-05	DAE4 Sn17111, 2024-03-18

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	2025-02-26	2025-02-26
psSAR1g [W/kg]	3.79	3.95
psSAR10g [W/kg]	2.00	2.02
Power Drift [dB]	-0.04	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.4
Dist 3dB Peak [mm]		9.6



System Performance Check Data (2450MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL		D2450	CW, 0--	2450.0, 50	6.98	1.79	39.5	22.0	21.1

Hardware Setup

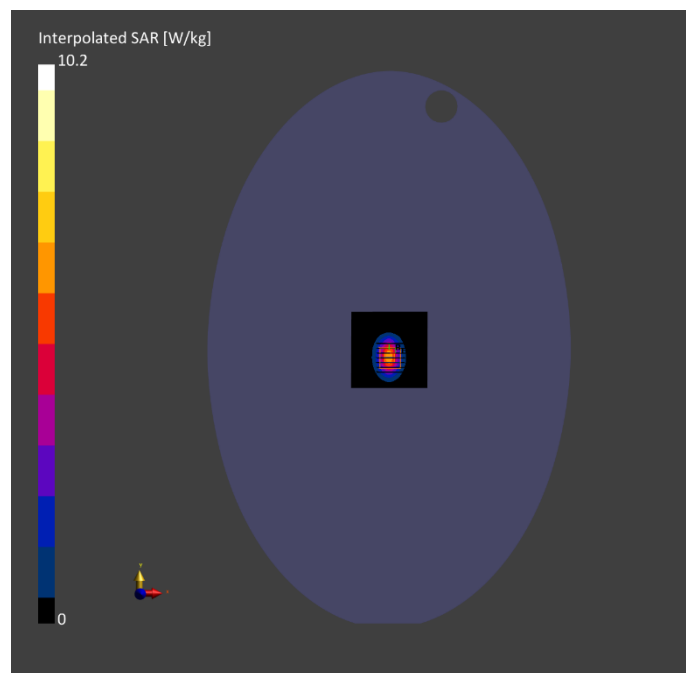
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000	2025-02-18	EX3DV4 - SN7893,	2024-09-05	DAE4 Sn17111, 2024-03-18

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	2025-02-18	2025-02-18
psSAR1g [W/kg]	5.05	5.27
psSAR10g [W/kg]	2.37	2.35
Power Drift [dB]	0.01	-0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.0
Dist 3dB Peak [mm]		9.0



System Performance Check Data (2600MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		CD2600 V3	CW, 0--	2600.0, 50	7.59	1.99	38.0	22.4	21.0

Hardware Setup

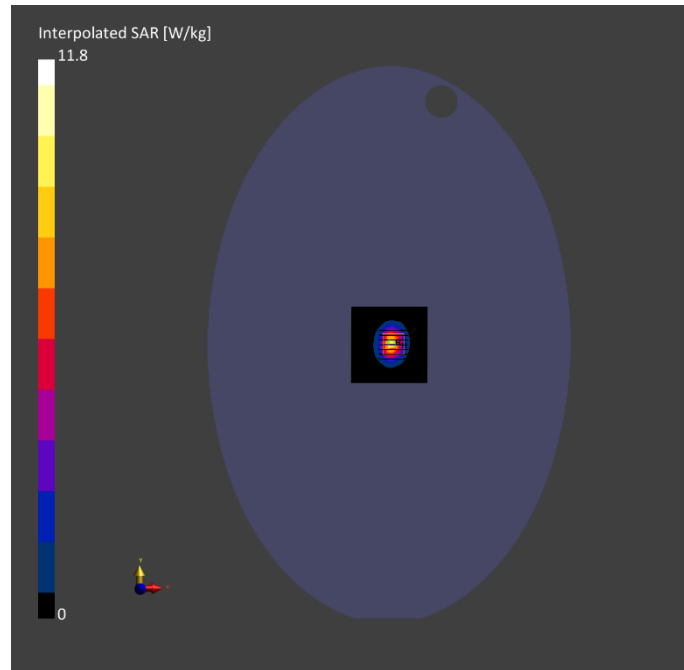
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2162	HBBL-600-10000	2025-02-25	EX3DV4 - SN7510,	2024-06-25	DAE4 Sn1710, 2025-01-20

Scan Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-25	2025-02-25
psSAR1g [W/kg]	5.38	5.69
psSAR10g [W/kg]	2.42	2.49
Power Drift [dB]	0.03	0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		79.3
Dist 3dB Peak [mm]		9.5



System Performance Check Data (2600MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL		CD2600 V3	CW, 0--	2600.0, 50	7.59	1.95	38.7	22.6	21.1

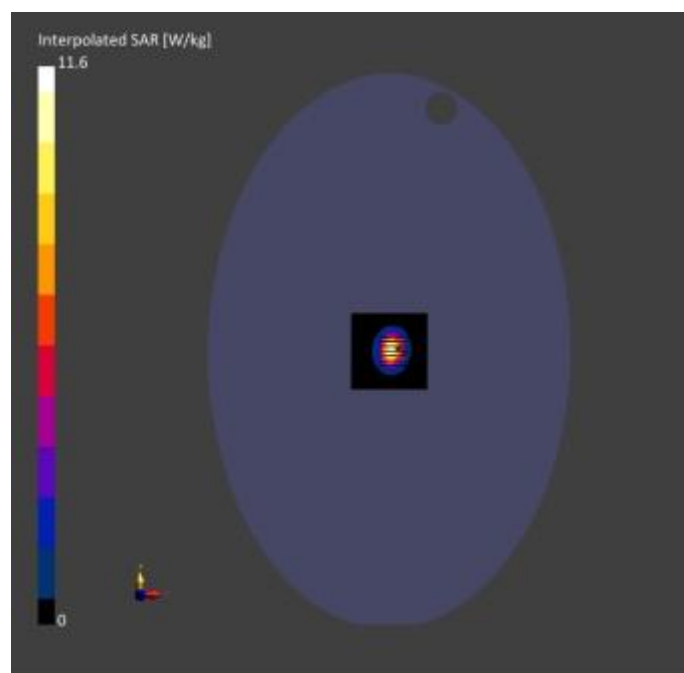
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2162	HBBL-600-10000 2025-02-26	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1710, 2025-01-20

Scan Setup

Measurement Results

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	30.0 x 30.0 x 30.0	Date	2025-02-26	2025-02-26
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5	psSAR1g [W/kg]	5.22	5.54
Sensor Surface [mm]	3.0	1.4	psSAR10g [W/kg]	2.36	2.41
Graded Grid	Yes	Yes	Power Drift [dB]	0.01	0.04
Grading Ratio	1.5	1.5	Power Scaling	Disabled	Disabled
MAIA	N/A	N/A	Scaling Factor		
Surface Detection	VMS + 6p	VMS + 6p	[dB]		
Scan Method	Measured	Measured	TSL Correction	No correction	No correction
			M2/M1 [%]		78.4
			Dist 3dB Peak [mm]		8.9



System Performance Check Data (5250MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL		D5GHz	CW, 0--	5250.0, 30	5.44	4.82	36.0	22.3	21.5

Hardware Setup

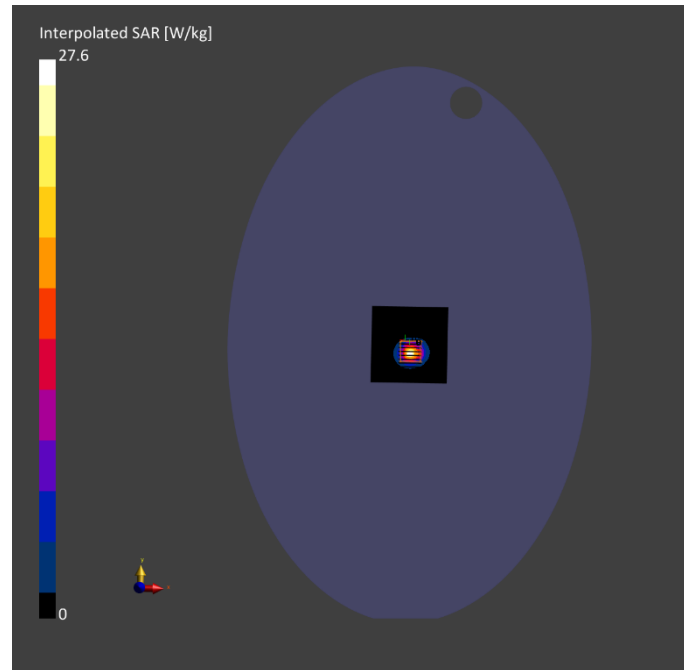
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000	2025-02-19	EX3DV4 - SN7893,	2024-09-05	DAE4 Sn17111, 2024-03-18

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	2025-02-19	2025-02-19
psSAR1g [W/kg]	6.59	7.75
psSAR10g [W/kg]	1.97	2.19
Power Drift [dB]	-0.14	0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		65.1
Dist 3dB Peak [mm]		7.4



System Performance Check Data (5600MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL		D5GHz	CW, 0--	5600.0, 60	4.91	5.18	36.1	22.4	21.7

Hardware Setup

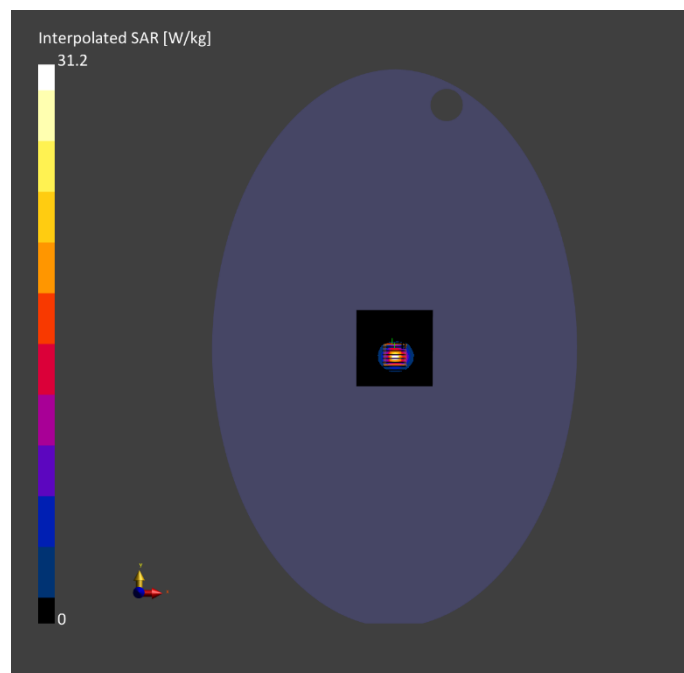
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000	2025-02-20	EX3DV4 - SN7893,	2024-09-05	DAE4 Sn17111, 2024-03-18

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	2025-02-20	2025-02-20
psSAR1g [W/kg]	6.99	8.04
psSAR10g [W/kg]	2.03	2.24
Power Drift [dB]	-0.13	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		62.5
Dist 3dB Peak [mm]		7.5



System Performance Check Data (5750MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		D5GHz	CW, 0--	5750.0, 80	4.98	5.13	35.6	22.4	21.7

Hardware Setup

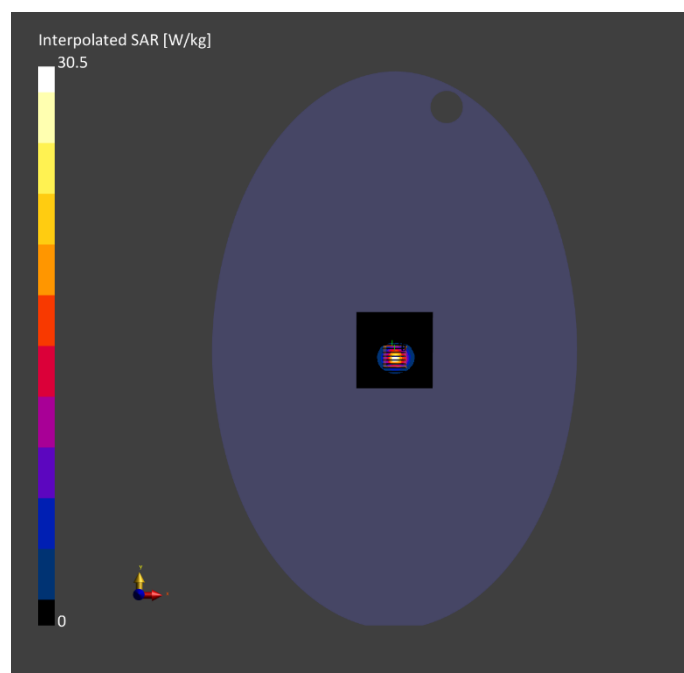
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000	2025-02-21	EX3DV4 - SN7893,	2024-09-05	DAE4 Sn17111, 2024-03-18

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	2025-02-21	2025-02-21
psSAR1g [W/kg]	6.56	7.67
psSAR10g [W/kg]	1.93	2.04
Power Drift [dB]	-0.17	0.07
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		61.5
Dist 3dB Peak [mm]		7.9



ANNEX C TEST DATA

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

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL	BACK, 0.00	GSM 850	GSM, 10027-DAC	824.2, 128	9.99	0.902	41.6	22.5	21.6

Hardware Setup

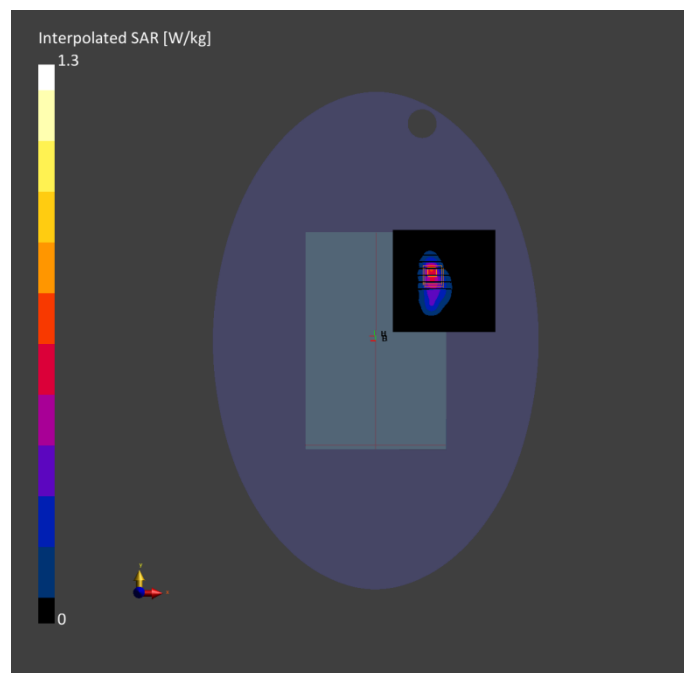
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2162	HBBL-600-10000 2025-02-21	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1710, 2025-01-20

Scan Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-21	2025-02-21
psSAR1g [W/kg]	0.535	0.524
psSAR10g [W/kg]	0.299	0.249
Power Drift [dB]	0.00	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		34.0
Dist 3dB Peak [mm]		6.4



Meas.2 Body Plane with Top Edge 0mm on Mid Channel in GPRS1900 2Slots mode with Antenna 3

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL	EDGE TOP, 0.00	PCS 1900	GSM, 10027-DAC	1880.0, 661	7.34	1.39	40.2	22.8	21.9

Hardware Setup

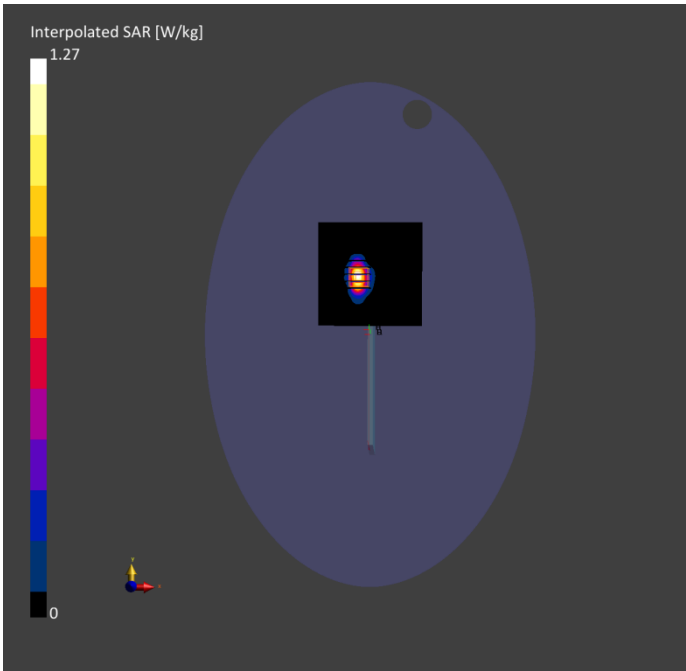
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2025-02-25	EX3DV4 - SN7893, 2024-09-05	DAE4 Sn1711, 2024-03-18

Scan Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-25	2025-02-25
psSAR1g [W/kg]	0.636	0.677
psSAR10g [W/kg]	0.297	0.323
Power Drift [dB]	-0.01	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.1
Dist 3dB Peak [mm]		7.2



Meas.3 Body Plane with Top Edge 0mm on Middle Channel in WCDMA Band2 mode with Antenna 3
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL	EDGE TOP, 0.00	Band 2	WCDMA, 10011-CAC	1880.0, 9400	7.34	1.39	41.2	22.8	21.9

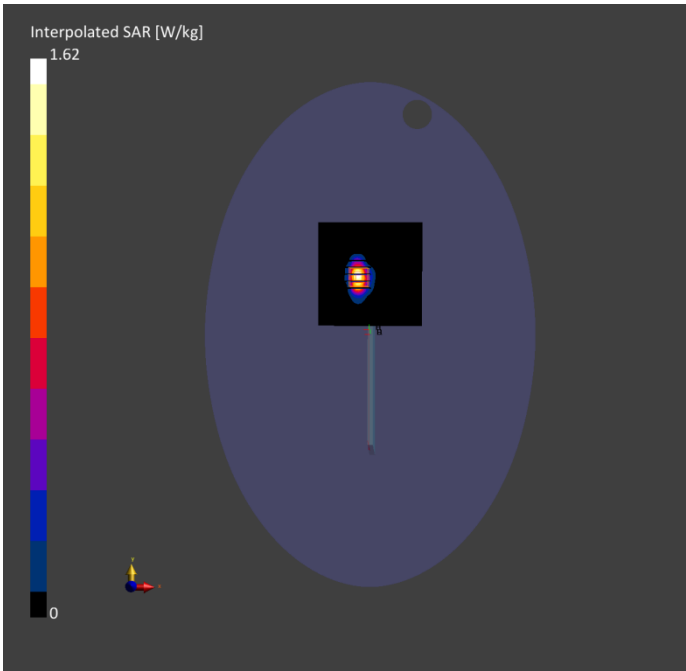
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2025-02-25	EX3DV4 - SN7893, 2024-09-05	DAE4 Sn1711, 2024-03-18

Scan Setup

Measurement Results

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	32.0 x 32.0 x 30.0	Date	2025-02-25	2025-02-25
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0	psSAR1g [W/kg]	0.814	0.884
Sensor Surface [mm]	3.0	1.4	psSAR10g [W/kg]	0.381	0.424
Graded Grid	Yes	Yes	Power Drift [dB]	-0.04	0.00
Grading Ratio	1.5	1.5	Power Scaling	Disabled	Disabled
MAIA	N/A	N/A	Scaling Factor [dB]		
Surface Detection	VMS + 6p	VMS + 6p	TSL Correction	No correction	No correction
Scan Method	Measured	Measured	M2/M1 [%]		50.7
			Dist 3dB Peak [mm]		6.4



Meas.4 Body Plane with Top Edge 0mm on Middle Channel in WCDMA Band4 mode with Antenna 3
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL	EDGE TOP, 0.00	Band 4	WCDMA, 10011-CAC	1712.4, 1312	7.57	1.31	39.1	22.9	21.1

Hardware Setup

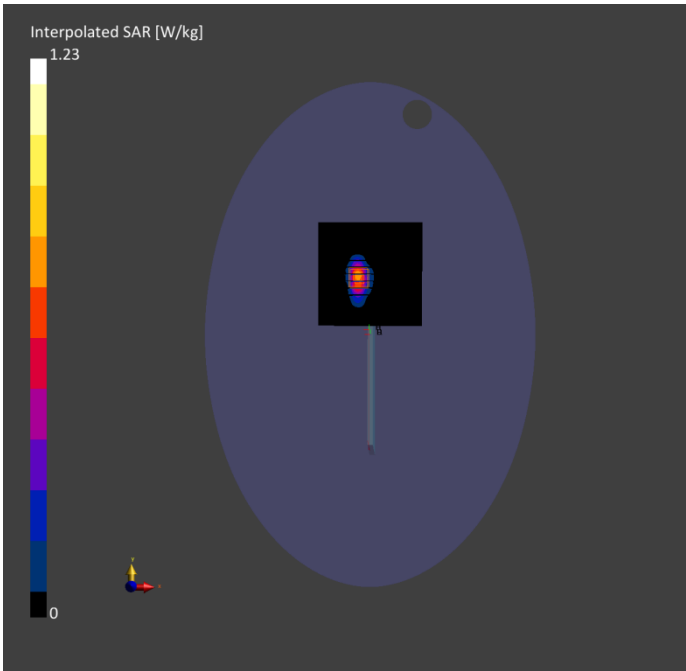
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2025-02-27	EX3DV4 - SN7893, 2024-09-05	DAE4 Sn1711, 2024-03-18

Scan Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-27	2025-02-27
psSAR1g [W/kg]	0.641	0.685
psSAR10g [W/kg]	0.315	0.343
Power Drift [dB]	0.08	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		51.6
Dist 3dB Peak [mm]		7.2



Meas.5 Body Plane with Back Side 0mm on Middle Channel in WCDMA Band5 mode with Antenna 3

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL	BACK, 0.00	Band 5	WCDMA, 10011-CAC	836.4, 4182	8.85	0.912	41.3	22.4	21.3

Hardware Setup

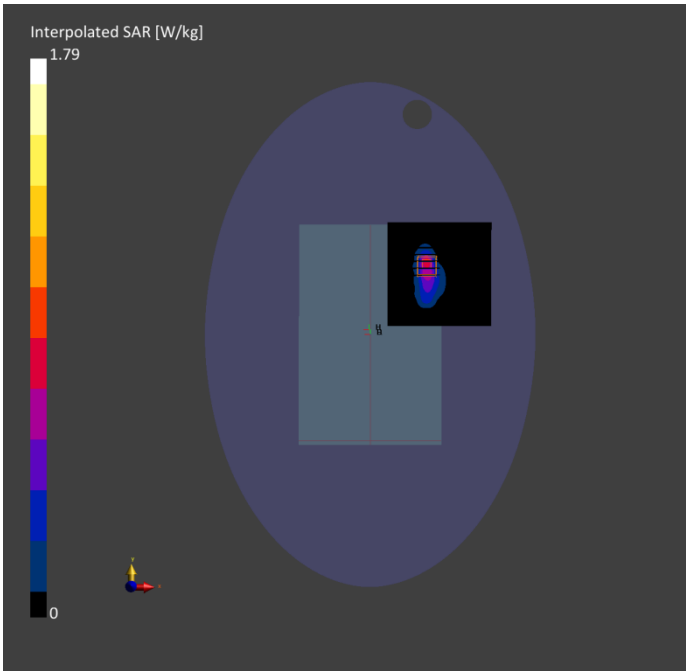
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2025-02-22	EX3DV4 - SN7893, 2024-09-05	DAE4 Sn1711, 2024-03-18

Scan Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-22	2025-02-22
psSAR1g [W/kg]	0.685	0.657
psSAR10g [W/kg]	0.378	0.297
Power Drift [dB]	0.01	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		33.9
Dist 3dB Peak [mm]		4.8



Meas.6 Body Plane with Top Edge 0mm on Low Channel in LTE Band2 mode with Antenna 3

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL	EDGE TOP, 0.00	Band 2	LTE-FDD, 10169-CAF	1860.0, 18700	7.34	1.37	40.4	22.4	21.7

Hardware Setup

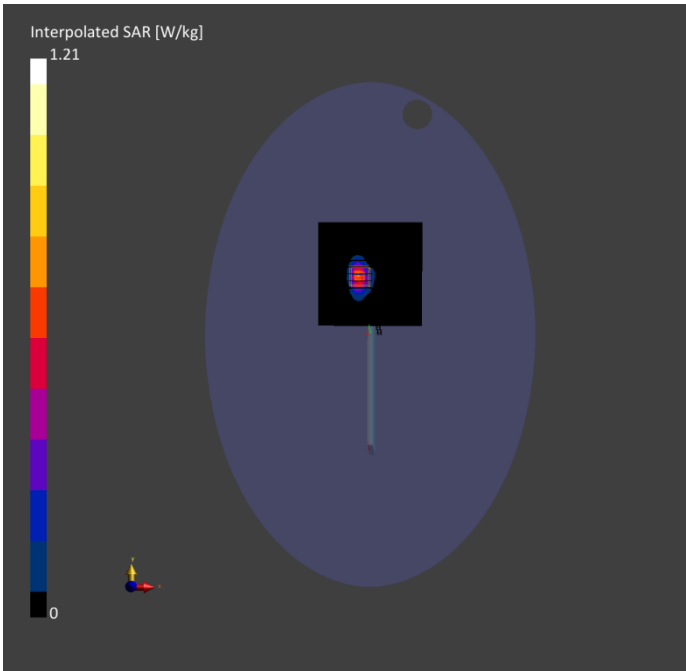
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2025-02-26	EX3DV4 - SN7893, 2024-09-05	DAE4 Sn1711, 2024-03-18

Scan Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-26	2025-02-26
psSAR1g [W/kg]	0.562	0.646
psSAR10g [W/kg]	0.268	0.312
Power Drift [dB]	0.04	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.8
Dist 3dB Peak [mm]		8.0



Meas.7 Body Plane with Top Edge 0mm on Middle Channel in LTE Band4 mode with Antenna 3

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE TOP, 0.00	Band 4	LTE-FDD, 10169-CAF	1732.5, 20175	7.57	1.39	39.3	22.6	21.2

Hardware Setup

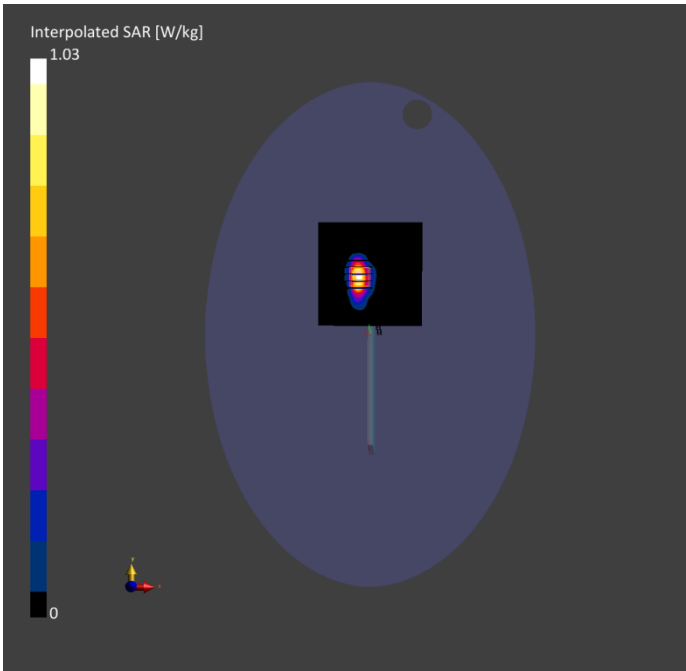
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2025-02-24	EX3DV4 - SN7893, 2024-09-05	DAE4 Sn1711, 2024-03-18

Scan Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-24	2025-02-24
psSAR1g [W/kg]	0.501	0.561
psSAR10g [W/kg]	0.247	0.282
Power Drift [dB]	0.03	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		51.2
Dist 3dB Peak [mm]		8.0



Meas.8 Body Plane with Back Side 0mm on Middle Channel in LTE Band5 mode with Antenna 3

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL	BACK, 0.00	Band 5	LTE-FDD, 10175-CAH	836.5, 20525	8.85	0.879	42.0	22.6	21.7

Hardware Setup

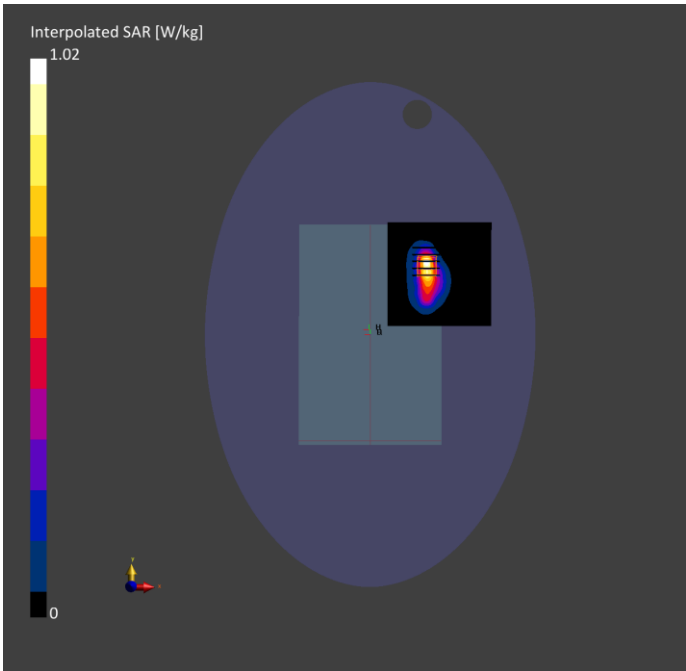
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2025-02-23	EX3DV4 - SN7893, 2024-09-05	DAE4 Sn1711, 2024-03-18

Scan Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-23	2025-02-23
psSAR1g [W/kg]	0.400	0.389
psSAR10g [W/kg]	0.221	0.172
Power Drift [dB]	0.03	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		30.5
Dist 3dB Peak [mm]		6.4



Meas.9 Body Plane with Top Edge 0mm on Middle Channel in LTE Band7 mode with Antenna 3

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE TOP, 0.00	Band 7	LTE-FDD, 10169-CAF	2510.0, 20850	7.75	1.88	38.9	22.4	21

Hardware Setup

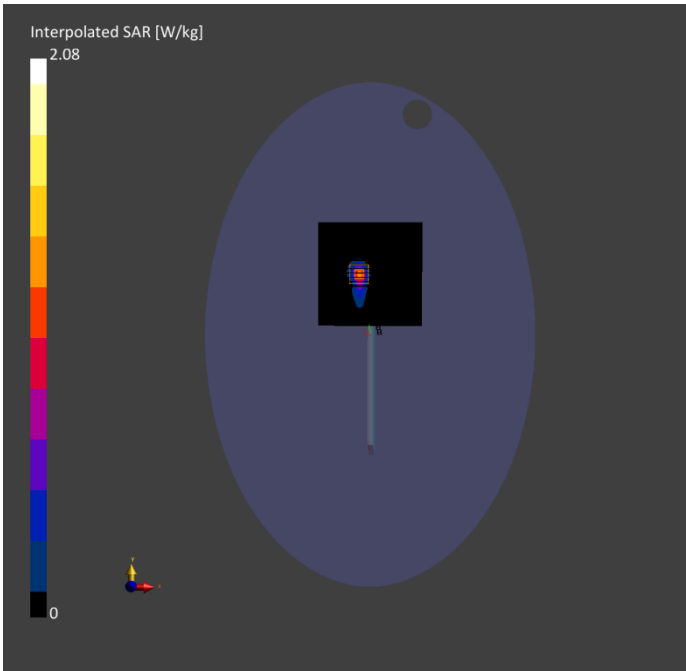
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2162	HBBL-600-10000 2025-02-25	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1710, 2025-01-20

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 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	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-25	2025-02-25
psSAR1g [W/kg]	0.922	0.943
psSAR10g [W/kg]	0.344	0.389
Power Drift [dB]	-0.03	-0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		44.1
Dist 3dB Peak [mm]		6.0



Meas.10 Body Plane with Back Side 0mm on Middle Channel in LTE Band13 mode with Antenna 3

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 0.00	Band 13	LTE-FDD, 10175-CAH	782.0, 23230	10.29	0.883	40.8	22.1	21.1

Hardware Setup

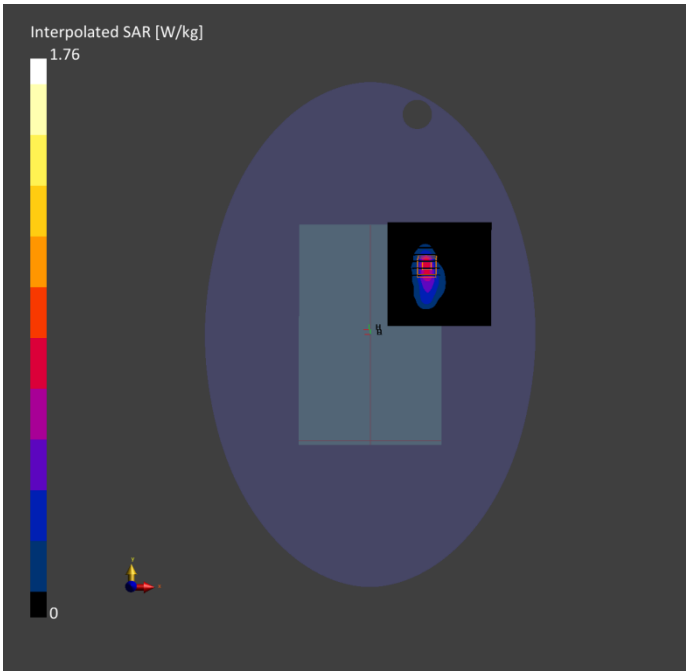
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2162	HBBL-600-10000 2025-02-22	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1710, 2025-01-20

Scan Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-13	2025-02-13
psSAR1g [W/kg]	0.696	0.662
psSAR10g [W/kg]	0.393	0.298
Power Drift [dB]	0.01	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		33.9
Dist 3dB Peak [mm]		6.4



Meas.11 Body Plane with Back Side 0mm on Middle Channel in LTE Band26 mode with Antenna 3

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL	BACK, 0.00	Band 26	LTE-FDD, 10181-CAF	831.5, 26865	8.85	0.917	41.3	22.8	21.7

Hardware Setup

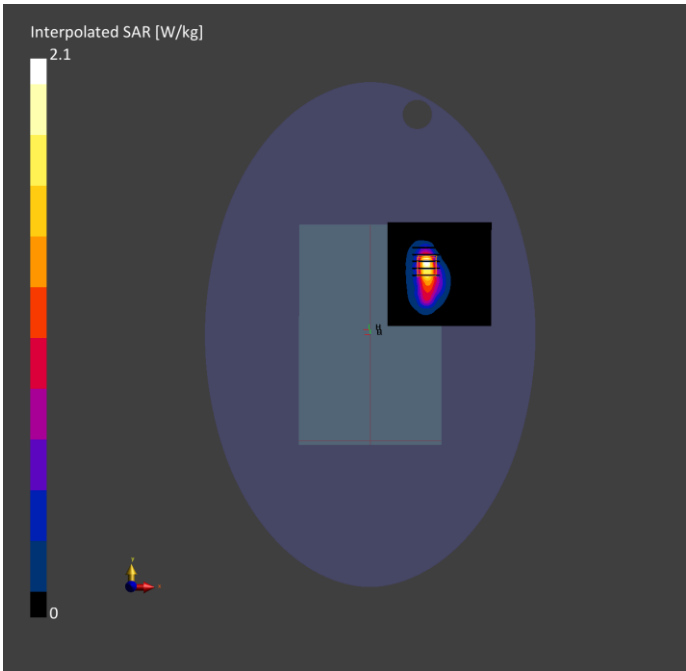
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2162	HBBL-600-10000 2025-02-23	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1710, 2025-01-20

Scan Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-23	2025-02-23
psSAR1g [W/kg]	0.802	0.768
psSAR10g [W/kg]	0.440	0.345
Power Drift [dB]	0.02	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		28.3
Dist 3dB Peak [mm]		4.8



Meas.12 Body Plane with Top Edge 0mm on Middle Channel in LTE Band66 mode with Antenna 3

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL	EDGE TOP, 0.00	Band 66	LTE-FDD, 10169-CAF	1745.0, 132322	7.57	1.40	39.1	22.6	21.2

Hardware Setup

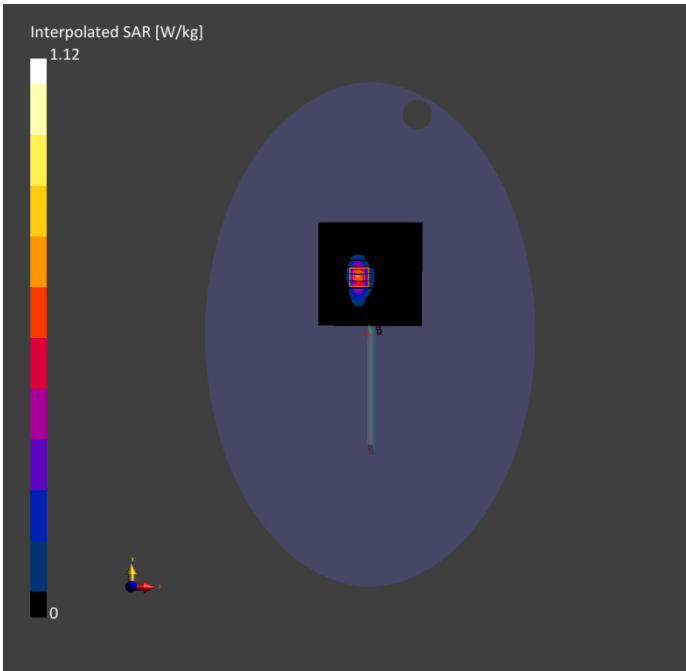
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2025-02-24	EX3DV4 - SN7893, 2024-09-05	DAE4 Sn1711, 2024-03-18

Scan Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-24	2025-02-24
psSAR1g [W/kg]	0.537	0.598
psSAR10g [W/kg]	0.263	0.298
Power Drift [dB]	0.03	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.3
Dist 3dB Peak [mm]		8.0



Meas.13 Body Plane with Back Side 0mm on Middle Channel in LTE Band38 mode with Antenna 3

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL	BACK, 0.00	Band 38	LTE-TDD, 10172-CAH	2595.0, 38000	7.59	1.98	38.2	22.4	21.0

Hardware Setup

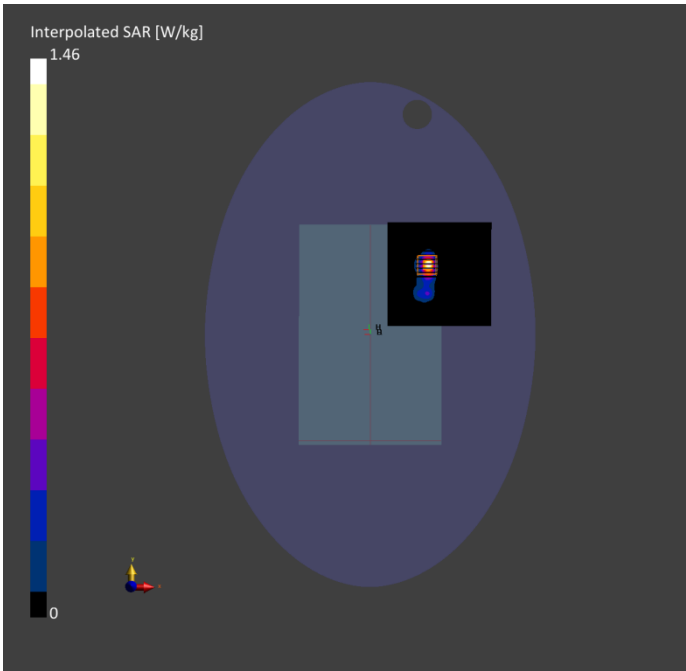
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2162	HBBL-600-10000 2025-02-25	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1710, 2025-01-20

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 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	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-25	2025-02-25
psSAR1g [W/kg]	0.524	0.605
psSAR10g [W/kg]	0.183	0.211
Power Drift [dB]	0.08	-0.08
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		45.2
Dist 3dB Peak [mm]		5.8



Meas.14 Body Plane with Back Side 0mm on Middle Channel in LTE Band41 mode with Antenna 3

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL	BACK, 0.00	Band 41	LTE-TDD, 10172-CAH	2593.0, 40620	7.59	1.94	38.9	22.6	21.1

Hardware Setup

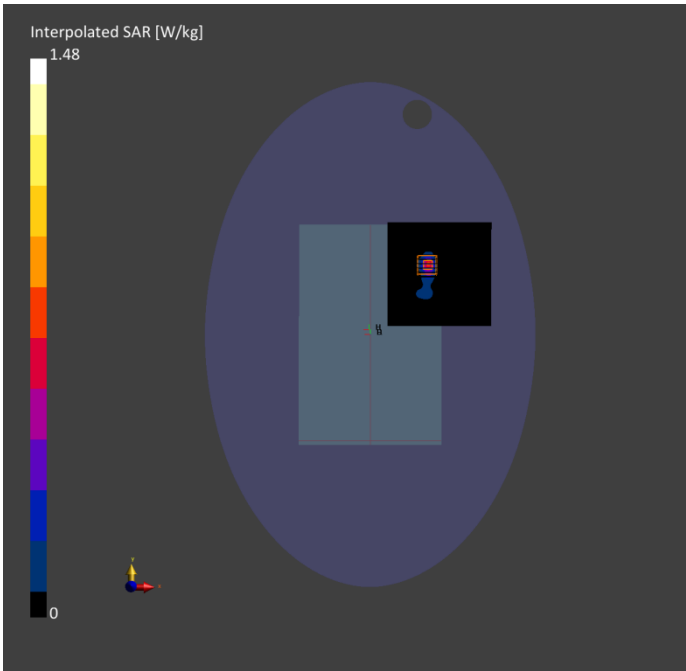
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2162	HBBL-600-10000 2025-02-26	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1710, 2025-01-20

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 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	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-26	2025-02-26
psSAR1g [W/kg]	0.534	0.615
psSAR10g [W/kg]	0.186	0.215
Power Drift [dB]	0.07	0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		45.4
Dist 3dB Peak [mm]		6.0



Meas.15 Body Plane with Back Side 0mm on 11 Channel in IEEE802.11b mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL	BACK, 0.00	WLAN 2.4GHz	WLAN, 10012-CAB	2462.0, 11	6.98	1.80	39.4	22.0	21.1

Hardware Setup

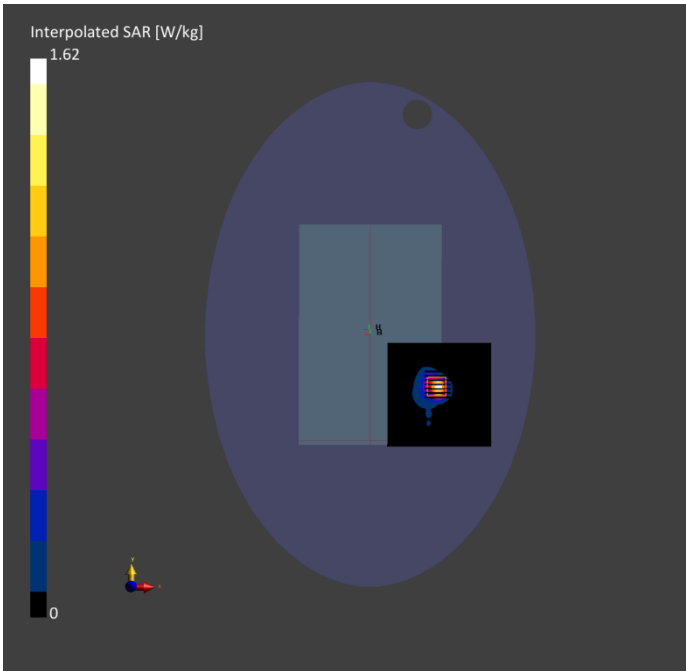
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2025-02-18	EX3DV4 - SN7893, 2024-09-05	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 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	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-18	2025-02-18
psSAR1g [W/kg]	0.644	0.668
psSAR10g [W/kg]	0.271	0.262
Power Drift [dB]	-0.17	-0.09
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		38.9
Dist 3dB Peak [mm]		5.0



Meas.16 Body Plane with Back Side 0mm on 58 Channel in IEEE802.11ac80 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivit y [S/m]	TSL Permittivity	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL	BACK, 0.00	WLAN 5GHz	WLAN, 10544-AAD	5290.0, 58	5.44	4.88	35.8	22.3	21.5

Hardware Setup

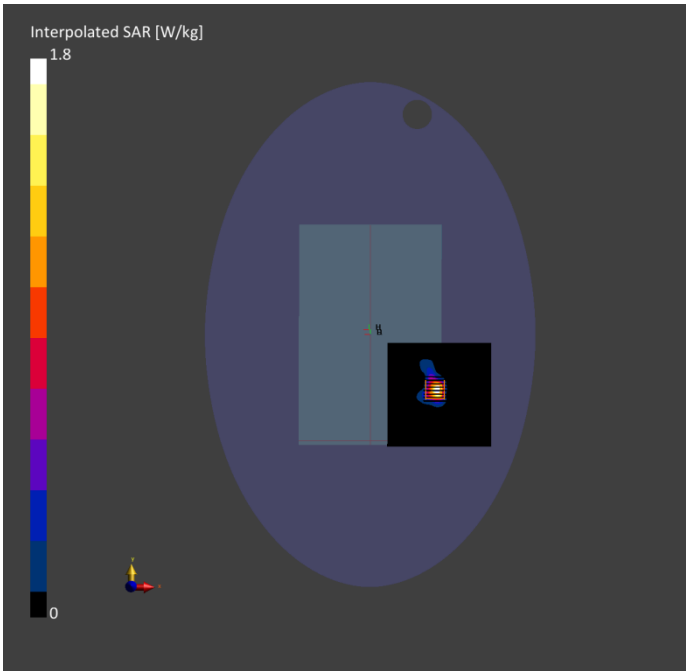
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2025-02-19	EX3DV4 - SN7893, 2024-09-05	DAE4 Sn1711, 2024-03-18

Scan Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-19	2025-02-19
psSAR1g [W/kg]	0.323	0.463
psSAR10g [W/kg]	0.102	0.120
Power Drift [dB]	-0.12	-0.14
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		56.7
Dist 3dB Peak [mm]		4.9



Meas.17 Body Plane with Top Edge 0mm on 106 Channel in IEEE802.11ac80 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE LEFT, 0.00	WLAN 5GHz	WLAN, 10544-AAD	5530.0, 106	4.91	5.07	36.4	22.4	21.7

Hardware Setup

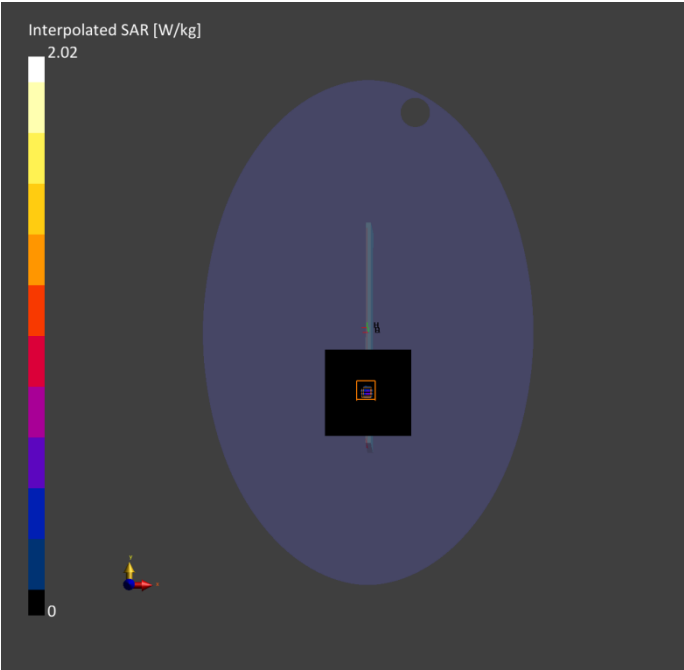
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2025-02-20	EX3DV4 - SN7893, 2024-09-05	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-20	2025-02-20
psSAR1g [W/kg]	0.330	0.395
psSAR10g [W/kg]	0.073	0.078
Power Drift [dB]	0.03	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		51.3
Dist 3dB Peak [mm]		4.3



Meas.18 Body Plane with Top Edge 0mm on 155 Channel in IEEE802.11ac80 mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE LEFT, 0.00	WLAN 5GHz	WLAN, 10544-AAD	5775.0, 155	4.98	5.16	35.4	22.4	21.7

Hardware Setup

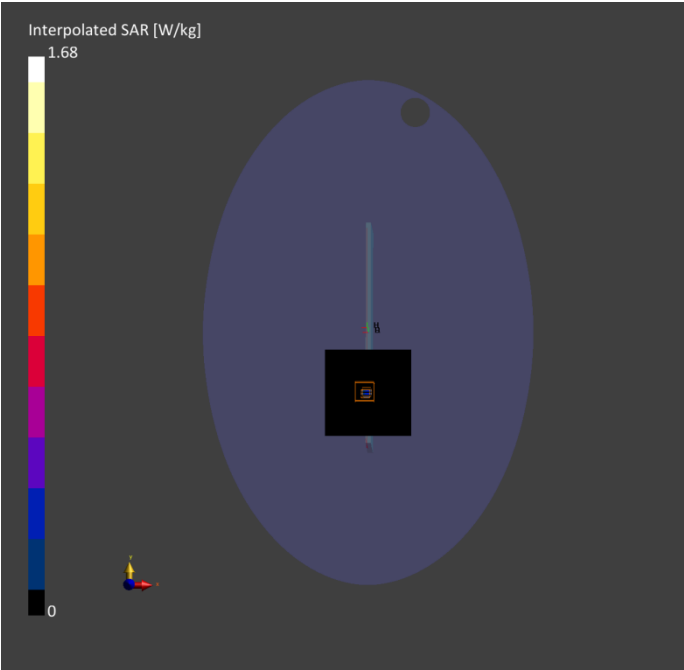
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2025-02-21	EX3DV4 - SN7893, 2024-09-05	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-21	2025-02-21
psSAR1g [W/kg]	0.198	0.291
psSAR10g [W/kg]	0.043	0.052
Power Drift [dB]	0.01	0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		46.0
Dist 3dB Peak [mm]		4.0



Meas.19 Body plane with Back Side 0mm on 39 Channel in Bluetooth mode with Antenna 1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 0.00	ISM 2.4 GHz Band	Bluetooth, 10032-CAA	2441.0, 39	6.98	1.77	39.7	22	21.1

Hardware Setup

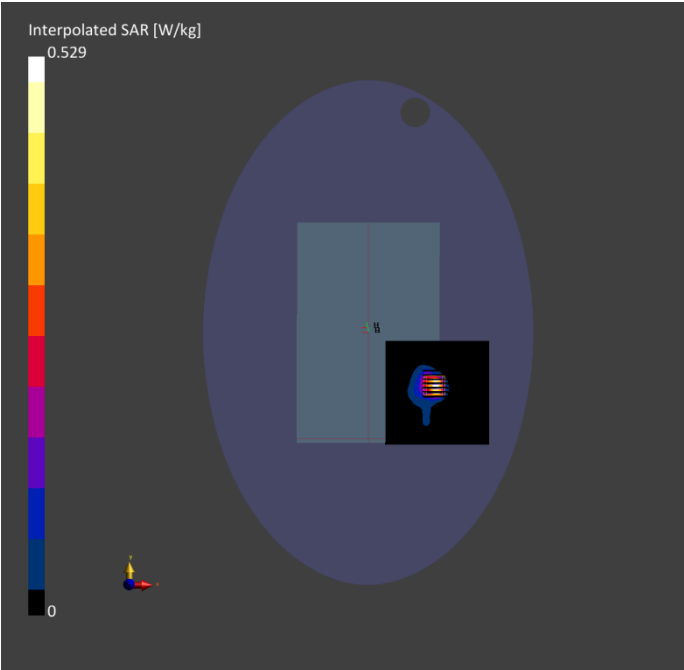
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2025-02-18	EX3DV4 - SN7893, 2024-09-05	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 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	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-18	2025-02-18
psSAR1g [W/kg]	0.164	0.209
psSAR10g [W/kg]	0.070	0.077
Power Drift [dB]	-0.02	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		37.0
Dist 3dB Peak [mm]		5.0



ANNEX D EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2510527-AW.pdf”.

ANNEX E SAR TEST SETUP PHOTOS

Please refer the document “BL-SZ2510527-AS.pdf”.

ANNEX F CALIBRATION REPORT

Please refer the document “BL-SZ2510527-AC.pdf”.

ANNEX G TUNE-UP PROCEDURE

Please refer the document “BL-SZ2510527-AT.pdf”.

Statement

1. The laboratory guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
2. The report without China inspection body and laboratory Mandatory Approval (CMA) mark has no effect of proving to the society.
3. For the report with CNAS mark or A2LA mark, the items marked with "☆" are not within the accredited scope.
4. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the "inspection and testing dedicated stamp" or test report stamp.
5. The test data and results are only valid for the tested samples provided by the customer.
6. This report shall not be partially reproduced without the written permission of the laboratory.
7. Any objection shall be raised to the laboratory within 30 days after receiving the report.

--END OF REPORT--