TEST REPORT

Applicant:	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address:	NO.18 HaiBin Road, Wusha Village, Chang'an Town, DongGuan City, Guangdong Province, P.R. China
Equipment Type:	Tablet
Model Name:	OPD2419
Brand Name:	OPPO
FCC ID:	R9C-OP-24978
Test Standard:	FCC 47 CFR Part 2.1093 (refer to section 3.1)
Maximum SAR:	Body (1 g@0mm): 1.17 W/kg
Sample Arrival Date:	Feb. 18, 2025
Test Date:	Mar. 05, 2025 - Mar. 08, 2025
Date of Issue:	Mar. 19, 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
Rev. 01	Mar. 19, 2025	Initial Issue

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1 GENERAL INFORMATION

1.1 Test Laboratory

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

1.2 Test Location

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

1.3 Test Environment Condition

Ambient Temperature	18℃ to 25℃
Ambient Relative Humidity	30% to 70%

2 PRODUCT INFORMATION

2.1 Applicant Information

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

2.2 Manufacturer Information

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

2.3 General Description for Equipment under Test (EUT)

EUT Name	Tablet
Model Name Under Test	OPD2419
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	OPD2419_11
Software Version	ColorOS 15
Dimensions (Approx.)	255.14mm(L)X 188.06mm(W)X6.89mm(H)
Weight (Approx.)	545g
EUT ID	S14, S15
Serial Number	S14: H621519000044F1F003U
	S15: H621519000044F1F003T
Note1: EUT ID is used to identify the test sample in the lab internally. Note2: It is performed to test SAR with the EUT S15 and conducted power with the EUT S14.	

2.4 Ancillary Equipment

Ancillary Equipment 1	Li-Polymer Battery 1	
	Brand Name	SUPERVOOC
	Model No.	BLT015
	Serial No.	N/A
	Capacitance	Rated: 9098mAh/35.12Wh Typical: 9340mAh/36.06Wh
	Rated Voltage	3.86 Vdc
	Limited Voltage	4.48 Vdc
	Manufacturer	Dongguan NVT Technology Co., Ltd.

2.5 Technical Information

Network and Wireless connectivity	Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n(HT20/40), 802.11ac(VHT20/40/80)

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

Operating Mode	2.4G WIFI, 5G WIFI, Bluetooth	
Frequency Range	802.11b/g /n(HT20/HT40)	2412 ~ 2462 MHz
	VHT20/40	2412 ~ 2462 MHz
	802.11a/ /n(HT20/HT40) /ac(VHT20/VHT40/ VHT80)	5150 ~ 5250 MHz
		5250 ~ 5350 MHz
		5470 ~ 5725 MHz
		5725 ~ 5850 MHz
	Bluetooth	2402 ~ 2480 MHz
Antenna Type	WWAN: PIFA Antenna 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: The reduction power details please refer section 8.3.		

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 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
5	KDB 865664 D02 v01r02	RF Exposure Reporting
6	KDB 616217 D04v01r02	SAR for laptop and tablets
7	KDB 248227 D01 v02r02	SAR GUIDANCE FOR IEEE 802.11 (Wi-Fi) TRANSMITTERS

3.2 Device Category and SAR Limit

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

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

Table of Exposure Limits:

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

NOTE:

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

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

3.3 Test Result Summary

3.3.1 Highest SAR Values

Equipment Class	Band	Maximum Scaled SAR (W/kg)	Maximum Report SAR (W/kg)
		Body (0mm)	Body (0mm)
		1g SAR	1g SAR
DTS	2.4G WIFI	0.93	1.17
NII	5.2&5.3G WLAN	1.02	
	5.6G WLAN	1.17	
	5.8G WLAN	0.71	
DSS	Bluetooth	0.99	
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 1.17 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:

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

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

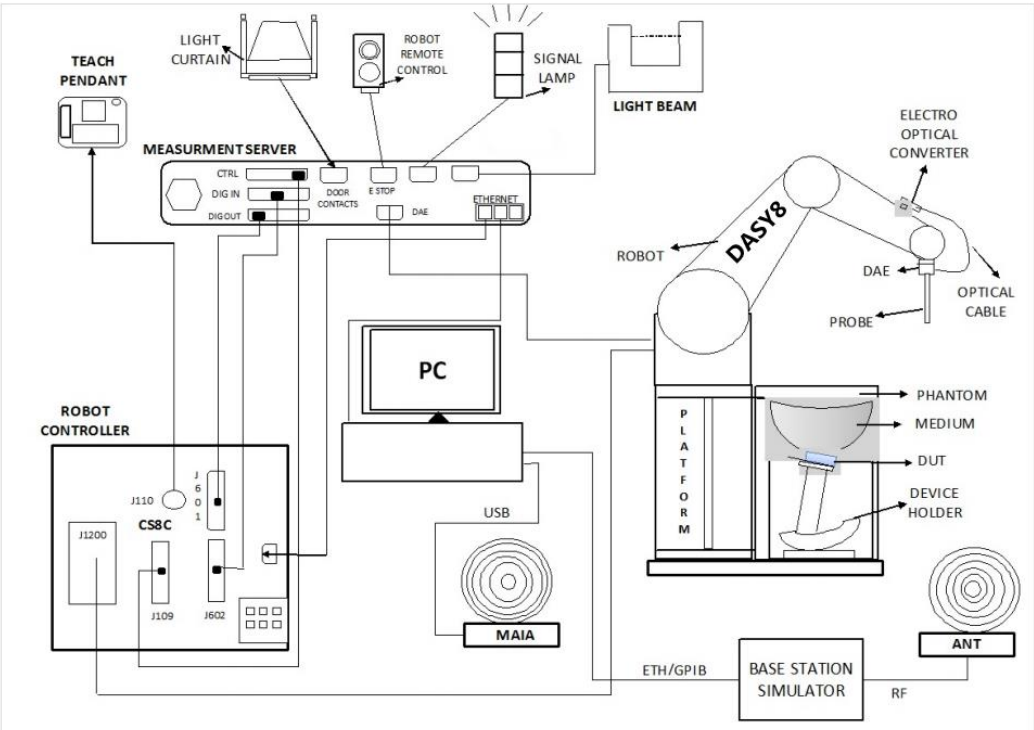
$$\mathbf{SAR} = \frac{\boldsymbol{\sigma}\mathbf{E}^{2}}{\boldsymbol{\rho}}$$

Where: σ is the conductivity of the tissue,

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

4.2 DASY SAR System

4.2.1 DASY SAR System Diagram

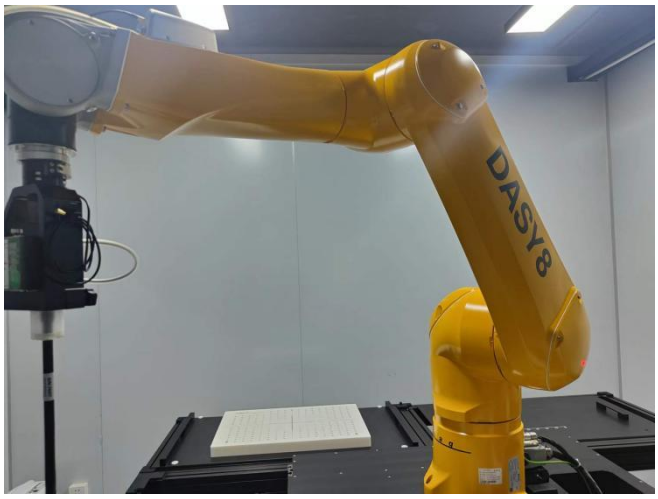


The DASY system for performing compliance tests consists of the following items:

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

4.2.2 Robot

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



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

4.2.3 E-Field Probe

The probe is specially designed and calibrated for use in liquids with high permittivities for the measurements the Specific Dosimetric E-Field Probe EX3DV4 with following specifications is used.

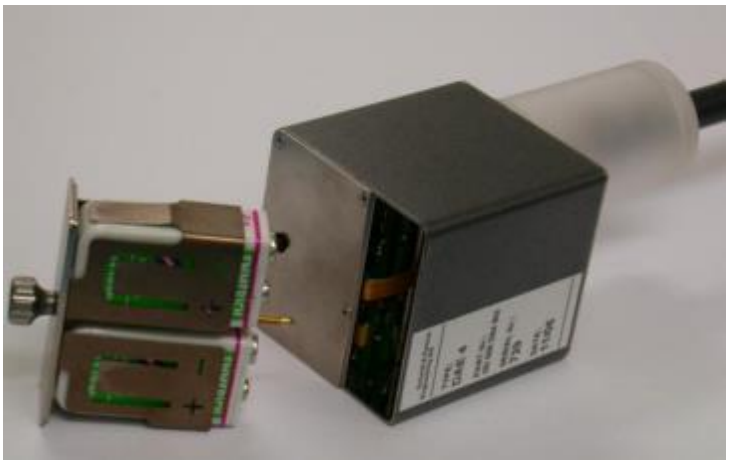
Construction	Symmetrical design with triangular core Built-in optical fiber for surface detection system Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., glycolether)
Calibration	ISO/IEC 17025 calibration service available
Frequency	4 MHz to 10 GHz; Linearity: ± 0.2 dB
Directivity	± 0.2 dB in HSL (rotation around probe axis) ; ± 0.4 dB in HSL (rotation normal to probe axis)
Dynamic range	5 μW/g to > 100 mW/g; Linearity: ± 0.2 dB
Dimensions	Overall length: 337 mm (Tip: 9 mm) Tip diameter: 2.5 mm (Body: 10 mm) Distance from probe tip to dipole centers: 1.0 mm
Application	General dosimetry up to 3 GHz Compliance tests of mobile phones Fast automatic scanning in arbitrary phantoms (EX3DV4)

E-Field Probe Calibration Process

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

4.2.4 Data Acquisition Electronics

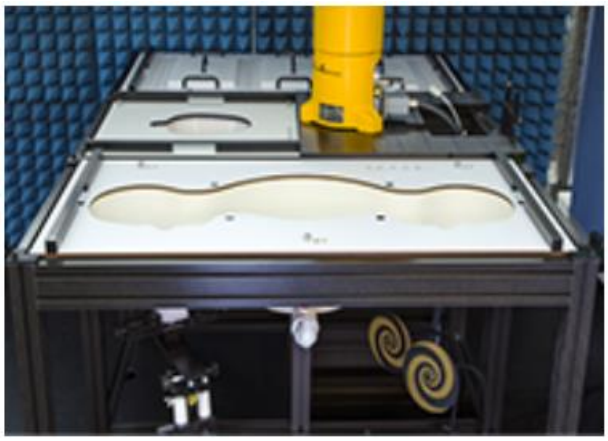
The data acquisition electronics (DAE) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converte and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an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



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

4.2.5 Phantoms

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

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

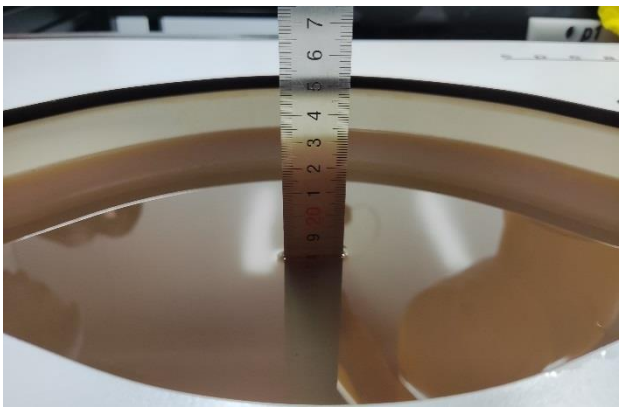
4.2.6 Device Holder

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

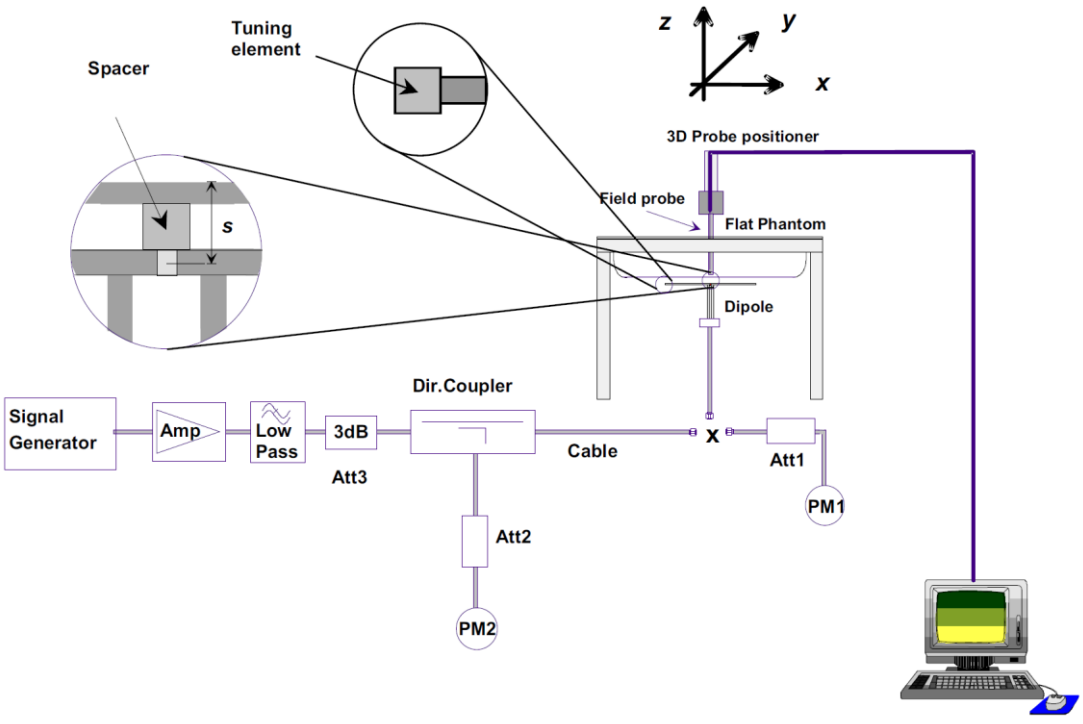
5 SYSTEM VERIFICATION

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

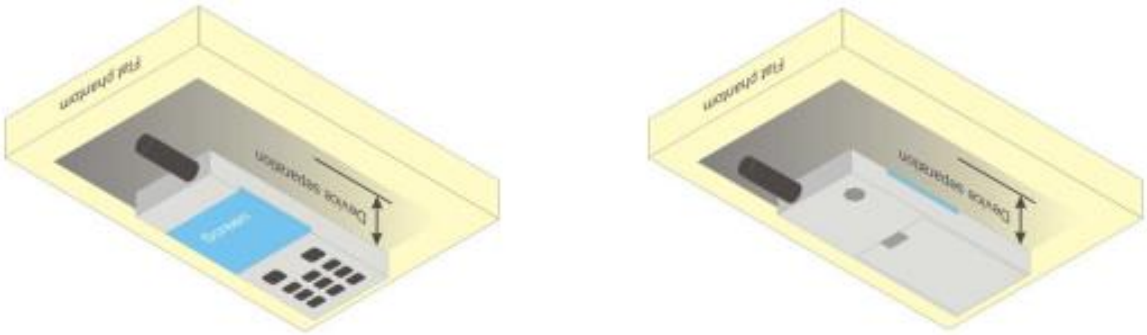
According to KDB 648474 D04 Handset, handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

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.

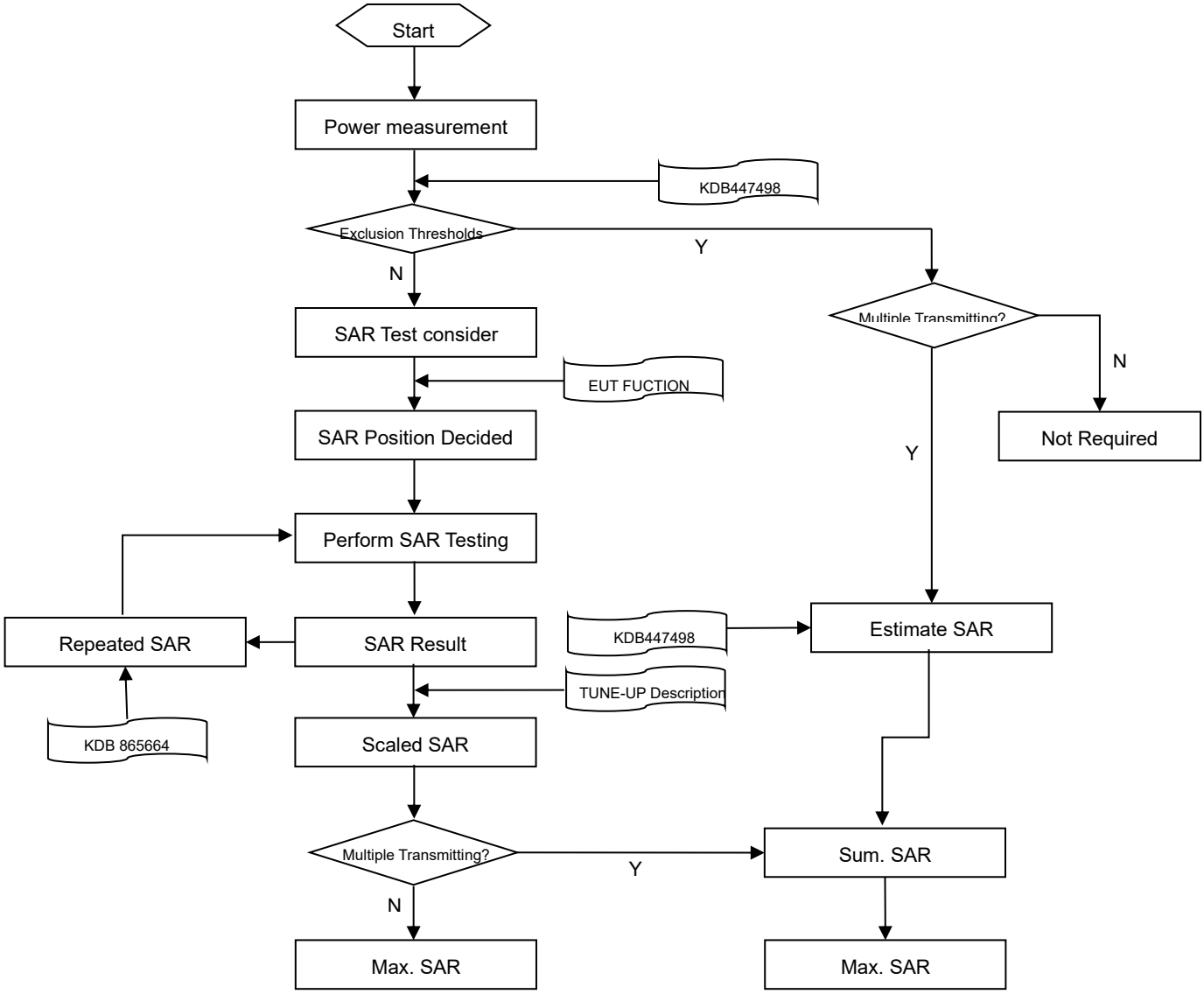
Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics. 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. Boththe probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1 g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEEE Std 1528-2013.

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

7.3 Measurement Procedure

The following steps are used for each test position

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

7.4 Area & Zoom Scan Procedure

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

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

8 CONDUCTED RF OUPUT POWER

8.1 WIFI

8.1.1 2.4G WIFI-ANT.2 Full Power

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4	802.11b	1	2412	11.80	12.50	No
		6	2437	**13.53**	14.50	Yes
		11	2462	12.11	13.50	No
	802.11g	1	2412	11.84	12.50	No
		6	2437	18.20	19.00	No
		11	2462	6.04	7.00	No
	802.11n(HT20)	1	2412	9.25	10.00	No
		6	2437	18.17	19.00	No
		11	2462	5.89	7.00	No
	802.11n(HT40)	3	2422	6.33	7.00	No
		6	2437	15.11	17.00	No
		9	2452	4.25	5.00	No
	VHT20	1	2412	9.66	11.00	No
		6	2437	16.56	18.00	No
		11	2462	6.54	8.00	No
	VHT40	3	2422	7.85	9.00	No
		6	2437	14.57	16.00	No
		9	2452	6.74	8.00	No

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

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

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

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

Adjusted SAR = 0.332 * (79.43mW/28.18mW) = 0.936 W/Kg, so 2.4G OFDM SAR test is not required.

8.1.2 2.4G WIFI-ANT.2 DSI1

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4	802.11b	1	2412	10.20	11.00	Yes
		6	2437	**10.26**	11.00	Yes
		11	2462	9.99	11.00	Yes
	802.11g	1	2412	9.92	11.00	No
		6	2437	9.96	11.00	No
		11	2462	6.04	7.00	No
	802.11n(HT20)	1	2412	9.25	10.00	No
		6	2437	9.87	11.00	No
		11	2462	5.89	7.00	No
	802.11n(HT40)	3	2422	6.33	7.00	No
		6	2437	10.01	11.00	No
		9	2452	4.25	5.00	No
	VHT20	1	2412	9.66	11.00	No
		6	2437	9.44	11.00	No
		11	2462	6.54	8.00	No
	VHT40	3	2422	7.85	9.00	No
		6	2437	10.23	11.00	No
		9	2452	6.74	8.00	No

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

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

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

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

Adjusted SAR = 0.925 * (12.59mW/12.59mW) = 0.925 W/Kg, so 2.4G OFDM SAR test is not required.

8.1.3 5G WIFI-ANT.3 Full Power

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Powerr (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2	802.11a	36	5180	12.49	14.00	No
		44	5220	16.73	18.00	No
		48	5240	17.56	18.00	No
	802.11n(HT20)	36	5180	12.55	14.00	No
		44	5220	17.66	18.00	No
		48	5240	17.63	18.00	No
	802.11n(HT40)	38	5190	9.18	11.00	No
		46	5230	16.22	18.00	No
	802.11ac(VHT20)	36	5180	12.47	14.00	No
		44	5220	16.63	18.00	No
		48	5240	16.57	18.00	No
	802.11ac(VHT40)	38	5190	9.15	11.00	No
		46	5230	16.24	18.00	No
	802.11ac(VHT80)	42	5210	6.91	8.00	No
5.3	802.11a	52	5260	**17.55**	18.00	Yes
		60	5300	16.03	18.00	Yes
		64	5320	12.99	14.00	Yes
	802.11n(HT20)	52	5260	17.42	18.00	No
		60	5300	15.90	17.00	No
		64	5320	12.32	14.00	No
	802.11n(HT40)	54	5270	14.27	16.00	No
		62	5310	10.68	12.00	No
	802.11ac(VHT20)	52	5260	17.41	18.00	No
		60	5300	15.93	17.00	No
		64	5320	12.81	14.00	No
	802.11ac(VHT40)	54	5270	14.24	16.00	No
		62	5310	10.69	12.00	No
	802.11ac(VHT80)	58	5290	8.33	10.00	No
5.6	802.11a	100	5500	8.91	10.00	Yes
		116	5580	**18.68**	20.00	Yes
		140	5700	9.19	11.00	Yes
	802.11n(HT20)	100	5500	8.71	10.50	No
		116	5580	17.94	19.00	No
		140	5700	9.00	11.00	No
	802.11n(HT40)	102	5510	8.51	10.50	No
		118	5590	17.30	19.00	No

		134	5670	10.97	12.00	No
	802.11ac(VHT20)	100	5500	8.70	10.50	No
		116	5580	18.36	20.00	No
		140	5700	9.03	11.00	No
	802.11ac(VHT40)	102	5510	9.05	11.00	No
		118	5590	17.23	19.00	No
		134	5670	10.94	12.00	No
	802.11ac(VHT80)	106	5530	9.88	11.00	No
		122	5690	11.45	13.00	No
5.8	802.11a	149	5745	17.51	19.00	Yes
		157	5785	17.81	19.00	Yes
		165	5825	**17.87**	19.00	Yes
	802.11n(HT20)	149	5745	17.79	19.00	No
		157	5785	17.68	19.00	No
		165	5825	17.74	19.00	No
	802.11n(HT40)	151	5755	16.62	18.00	No
		159	5795	16.57	18.00	No
	802.11ac(VHT20)	149	5745	17.27	19.00	No
		157	5785	17.69	19.00	No
		165	5825	17.74	19.00	No
	802.11ac(VHT40)	151	5755	16.63	18.00	No
		159	5795	16.56	18.00	No
	802.11ac(VHT80)	155	5775	12.42	14.00	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.						

8.1.4 5G WIFI-ANT.3 DSI1

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2	802.11a	36	5180	7.01	9.00	No
		44	5220	7.54	9.00	No
		48	5240	7.05	9.00	No
	802.11n(HT20)	36	5180	7.41	9.00	No
		44	5220	7.44	9.00	No
		48	5240	7.45	9.00	No
	802.11n(HT40)	38	5190	7.35	9.00	No
		46	5230	7.28	9.00	No
	802.11ac(VHT20)	36	5180	7.31	9.00	No
		44	5220	7.36	9.00	No
		48	5240	7.41	9.00	No
	802.11ac(VHT40)	38	5190	7.11	9.00	No
		46	5230	7.34	9.00	No
	802.11ac(VHT80)	42	5210	7.05	9.00	No
5.3	802.11a	52	5260	7.16	9.00	No
		60	5300	7.17	9.00	No
		64	5320	7.12	9.00	No
	802.11n(HT20)	52	5260	7.45	9.00	No
		60	5300	7.41	9.00	No
		64	5320	7.52	9.00	No
	802.11n(HT40)	54	5270	7.31	9.00	No
		62	5310	7.01	9.00	No
	802.11ac(VHT20)	52	5260	7.09	9.00	No
		60	5300	7.05	9.00	No
		64	5320	7.02	9.00	No
	802.11ac(VHT40)	54	5270	7.42	9.00	No
		62	5310	7.32	9.00	No
	802.11ac(VHT80)	58	5290	**7.37**	9.00	Yes
5.6	802.11a	100	5500	8.97	10.00	No
		116	5580	8.43	10.00	No
		140	5700	8.07	10.00	No
	802.11n(HT20)	100	5500	8.15	10.00	No
		116	5580	8.21	10.00	No
		140	5700	8.35	10.00	No
	802.11n(HT40)	102	5510	8.07	10.00	No
		118	5590	8.29	10.00	No

		134	5670	8.36	10.00	No
	802.11ac(VHT20)	100	5500	8.19	10.00	No
		116	5580	8.32	10.00	No
		140	5700	8.37	10.00	No
	802.11ac(VHT40)	102	5510	8.64	10.00	No
		118	5590	8.75	10.00	No
		134	5670	8.76	10.00	No
	802.11ac(VHT80)	106	5530	**8.89**	10.00	Yes
		122	5690	8.39	10.00	Yes
5.8	802.11a	149	5745	8.04	10.00	No
		157	5785	8.11	10.00	No
		165	5825	8.15	10.00	No
	802.11n(HT20)	149	5745	8.36	10.00	No
		157	5785	8.01	10.00	No
		165	5825	8.02	10.00	No
	802.11n(HT40)	151	5755	8.11	10.00	No
		159	5795	8.47	10.00	No
	802.11ac(VHT20)	149	5745	8.32	10.00	No
		157	5785	8.01	10.00	No
		165	5825	8.51	10.00	No
	802.11ac(VHT40)	151	5755	8.43	10.00	No
		159	5795	8.25	10.00	No
	802.11ac(VHT80)	155	5775	**8.56**	10.00	Yes
Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.						

8.2 Bluetooth

8.2.1 Bluetooth-ANT.2 Full Power&DSI1

Mode	GFSK			π/4-DQPSK		
Channel	0	39	78	0	39	78
Frequency (MHz)	2402	2441	2480	2402	2441	2480
Average Power (dBm)	**13.35**	11.98	11.22	9.14	7.91	6.94
Tune-Up Limit (dBm)	14.00	13.00	13.00	10.00	8.00	8.00
SAR Test Require	YES	YES	YES	NO	NO	NO
Mode	8-DPSK			/		
Channel	0	39	78	/	/	/
Frequency (MHz)	2402	2441	2480	/	/	/
Average Power (dBm)	9.03	7.76	6.86	/	/	/
Tune-Up Limit (dBm)	10.00	8.00	8.00	/	/	/
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)	1.38	2.17	2.01	1.44	2.20	2.10
Tune-Up Limit (dBm)	3.00	3.00	3.00	3.00	3.00	3.00
SAR Test Require	NO	NO	NO	NO	NO	NO

Note 1: Since bluetooth BR mode is the maximum output power mode，SAR measurements were performed with test software using DH5 modulation, and SAR measurement is not required for the EDR and LE. When the secondary mode is ⩽ ¼ dB higher than the primary mode.

Note 2: The Bluetooth of the device is based on the SIG (Special Interest Group) protocol, and the maximum TX duty cycle of Bluetooth is limited to 77.6%, so the reported SAR needs to perform the corresponding maximum TX duty cycle.

8.2.2 Bluetooth-ANT.2 DSI2

Mode	GFSK			π/4-DQPSK		
Channel	0	39	78	0	39	78
Frequency (MHz)	2402	2441	2480	2402	2441	2480
Average Power (dBm)	3.93	**4.51**	4.25	3.88	4.02	2.89
Tune-Up Limit (dBm)	5.00	5.00	5.00	5.00	5.00	4.00
SAR Test Require	NO	YES	NO	NO	NO	NO
Mode	8-DPSK			/		
Channel	0	39	78	/	/	/
Frequency (MHz)	2402	2441	2480	/	/	/
Average Power (dBm)	2.36	2.47	1.39	/	/	/
Tune-Up Limit (dBm)	4.00	4.00	3.00	/	/	/
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)	1.38	2.17	2.01	1.44	2.20	2.10
Tune-Up Limit (dBm)	3.00	3.00	3.00	3.00	3.00	3.00
SAR Test Require	NO	NO	NO	NO	NO	NO

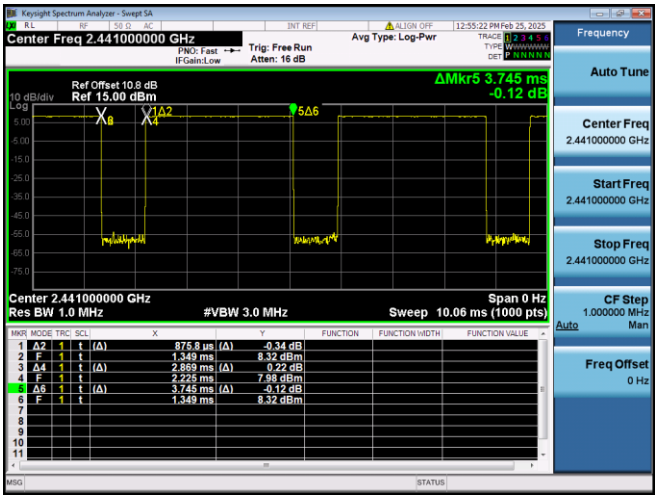
Note 1: Since bluetooth BR mode is the maximum output power mode，SAR measurements were performed with test software using DH5 modulation, and SAR measurement is not required for the EDR and LE. When the secondary mode is ≤ ¼ dB higher than the primary mode.

Note 2: The Bluetooth of the device is based on the SIG (Special Interest Group) protocol, and the maximum TX duty cycle of Bluetooth is limited to 77.6%, so the reported SAR needs to perform the corresponding maximum TX duty cycle.

Note: The Bluetooth duty cycle is 76.61 % as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 77.6%, therefore the actual duty cycle will be scaled up to 77.6% for Bluetooth reported SAR calculation.

Duty Cycle

GFSK



8.3 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.

WLAN&BT Reduced power level table

Reduced State	Sensor state	Receiver state	Transmitting conditions	Position
Full Power	Sensor Off	Off (Body scenario)	WLAN 2.4G Only WLAN 5G Only BT Only WLAN 5G+BT	Left Edge; Right Edge
DSI1	Sensor On	Off (Body scenario)	WLAN 2.4G Only WLAN 5G Only BT Only	Back Side;Top Edge;
DSI2	Sensor On	Off (Body scenario)	WLAN 5G+BT	Back Side;Top Edge;

Mode	Antenna	WLAN Antenna1		
		Full Power	Body	Body
			Receiver off	Receiver off
			DSI1	DSI2
2.4G WLAN 802.11b	ANT2	14.50	11.00	11.00
2.4G WLAN 802.11g	ANT2	19.00	11.00	11.00
2.4G WLAN 802.11n20	ANT2	19.00	11.00	11.00
2.4G WLAN 802.11n40	ANT2	17.00	11.00	11.00
2.4G WLAN 802.11ac20	ANT2	18.00	11.00	11.00
2.4G WLAN 802.11ac40	ANT2	16.00	11.00	11.00
5.2G WLAN 802.11a	ANT3	18.00	9.00	9.00
5.2G WLAN 802.11n20	ANT3	18.00	9.00	9.00
5.2G WLAN 802.11n40	ANT3	18.00	9.00	9.00
5.2G WLAN 802.11ac20	ANT3	18.00	9.00	9.00
5.2G WLAN 802.11ac40	ANT3	18.00	9.00	9.00
5.2G WLAN 802.11ac80	ANT3	8.00	9.00	9.00
5.3G WLAN 802.11a	ANT3	18.00	9.00	9.00
5.3G WLAN 802.11n20	ANT3	18.00	9.00	9.00
5.3G WLAN 802.11n40	ANT3	16.00	9.00	9.00
5.3G WLAN 802.11ac20	ANT3	18.00	9.00	9.00
5.3G WLAN 802.11ac40	ANT3	16.00	9.00	9.00
5.3G WLAN 802.11ac80	ANT3	10.00	9.00	9.00
5.6G WLAN 802.11a	ANT3	20.00	10.00	10.00
5.6G WLAN 802.11n20	ANT3	19.00	10.00	10.00

5.6G WLAN 802.11n40	ANT3	19.00	10.00	10.00
5.6G WLAN 802.11ac20	ANT3	20.00	10.00	10.00
5.6G WLAN 802.11ac40	ANT3	19.00	10.00	10.00
5.6G WLAN 802.11ac80	ANT3	13.00	10.00	10.00
5.8G WLAN 802.11a	ANT3	19.00	10.00	10.00
5.8G WLAN 802.11n20	ANT3	19.00	10.00	10.00
5.8G WLAN 802.11n40	ANT3	18.00	10.00	10.00
5.8G WLAN 802.11ac20	ANT3	19.00	10.00	10.00
5.8G WLAN 802.11ac40	ANT3	18.00	10.00	10.00
5.8G WLAN 802.11ac80	ANT3	14.00	10.00	10.00
Bluetooth	ANT2	14.00	14.00	5.00

9 TEST EXCLUSION CONSIDERATION

For antenna location and support bands please refer the document “BL-SZ2520680-AI EUT internal photo.pdf”.

Antenna	Support Bands
Antenna.2	WLAN2.4G; Bluetooth
Antenna.3	WLAN5G

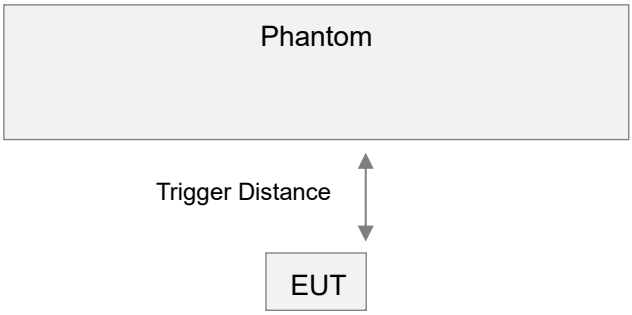
10 PROXIMITY SENSOR TRIGGERING TEST

10.1 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.

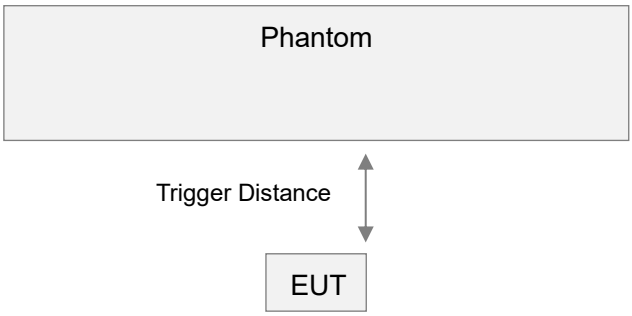
10.1.1 proximity sensor_1



EUT moving toward Phantom

Distance in mm	1~8	9	10	11~13	14	15	16	17	18	19~23	24
Back Side	On	On	On	On	On	On	On	On	On	Off	Off
Top Edge	On	On	On	On	On	On	On	On	On	Off	Off
Note: Power reduction is only applicable for ANT2.											

10.1.2 proximity sensor channel-2



Distance in mm	9	10	11	12	13~17	18	19	20	21	22~24	25
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 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.

ANT2 of proximity sensor_1

EUT Sides	Additional SAR test Distance in mm
Back Side	17
Top Edge	17

ANT3 of proximity sensor_2

EUT Sides	Additional SAR test Distance in mm
Back Side	18
Top Edge	18

10.2 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 2, perpendicular to the flat phantom, at 18 mm separation for the top edge.
Rotating the EUT around the edge next to the phantom in ⩽ 10° increments until the EUT is ± 45° 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 19 mm separation for the top edge.
Rotating the EUT around the edge next to the phantom in ⩽ 10° increments until the EUT is ± 45° from the vertical position at 0°, and the maximum output power remains in the reduced mode.

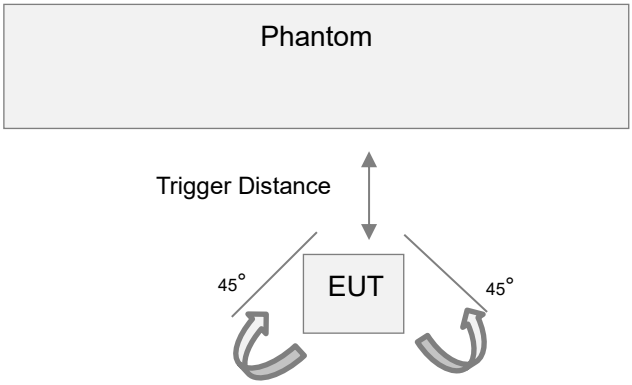


Table: Summary of Phone Tilt Angle Influence to Proximity Sensor Triggering(Top edge)

Antenna	Posltion	Minimum trigger distance at which power reduction was maintained over ±45°	Power Reduction Status										
			-45°	-35°	-25°	-15°	-5°	0°	5°	15°	25°	35°	45°
ANT2	Top Edge	18mm	on	on	on	on	on	on	on	on	on	on	on
ANT3	Top Edge	19mm	on	on	on	on	on	on	on	on	on	on	on

11 TEST RESULT

11.1WIFI 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.2	DSI1&2	802.11 b	Back Side	0	6	2437	-0.07	0.775	99.36	1.006	10.26	11.00	1.186	**0.925**	1#
	Full Power		Right Edge	0	6	2437	-0.01	0.052	99.36	1.006	13.53	14.50	1.250	0.065	/
	DSI1&2		Top Edge	0	6	2437	0.02	0.487	99.36	1.006	10.26	11.00	1.186	0.581	/
	DSI1&2		Back Side	0	1	2412	-0.15	0.707	99.36	1.006	10.20	11.00	1.202	0.855	/
	DSI1&2		Back Side	0	11	2462	-0.18	0.672	99.36	1.006	9.99	11.00	1.262	0.853	/
Body(N-1)															
Ant.2	Full Power	802.11 b	Back Side	17	6	2437	-0.11	0.232	99.36	1.006	13.53	14.50	1.250	0.292	/
	Full Power		Top Edge	17	6	2437	0.11	0.264	99.36	1.006	13.53	14.50	1.250	0.332	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

11.2WIFI 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.3	DSI1&2	5.3G 802.11ac80	Back Side	0	58	5290	0.19	0.450	91.34	1.095	7.37	9.00	1.455	0.717	/
	Full Power	5.3G 802.11a	Left Edge	0	52	5260	0.15	0.246	91.34	1.095	17.55	18.00	1.109	0.299	/
	DSI1&2	5.3G 802.11ac80	Top Edge	0	58	5290	-0.04	0.639	91.34	1.095	7.37	9.00	1.455	**1.018**	2#
Ant.3	DSI1&2	5.6G 802.11ac80	Back Side	0	106	5530	-0.14	0.825	91.34	1.095	8.89	10.00	1.291	**1.166**	3#
	Full Power	5.6G 802.11a	Left Edge	0	116	5580	0.01	0.265	91.34	1.095	18.68	20.00	1.355	0.393	/
	DSI1&2	5.6G 802.11ac80	Top Edge	0	106	5530	0.11	0.806	91.34	1.095	8.89	10.00	1.291	1.139	/
	DSI1&2	5.6G 802.11ac80	Back Side	0	122	5610	0.06	0.726	91.34	1.095	8.39	10.00	1.449	1.152	/
Ant.3	DSI1&2	5.8G 802.11ac80	Back Side	0	155	5775	0.01	0.468	91.34	1.095	8.56	10.00	1.393	**0.714**	4#
	Full Power	5.8G 802.11a	Left Edge	0	157	5785	0.06	0.022	91.34	1.095	17.81	19.00	1.315	0.032	/
	DSI1&2	5.8G 802.11ac80	Top Edge	0	155	5775	0.14	0.396	91.34	1.095	8.56	10.00	1.393	0.604	/
Body(N-1)															
Ant.3	Full Power	5.3G 802.11a	Back Side	18	52	5260	-0.07	0.526	95.70	1.045	17.55	18.00	1.109	0.610	/
	Full Power		Top Edge	18	52	5260	0.10	0.749	95.70	1.045	17.55	18.00	1.109	0.868	/
	Full Power		Top Edge	18	60	5300	-0.17	0.545	95.70	1.045	16.03	18.00	1.574	0.896	/
	Full Power		Top Edge	18	64	5320	-0.11	0.267	95.70	1.045	12.99	14.00	1.262	0.352	/
Ant.3	Full Power	5.6G 802.11a	Back Side	18	116	5580	-0.07	0.629	95.70	1.045	18.68	20.00	1.355	0.891	/
	Full Power		Top Edge	18	116	5580	0.06	0.702	95.70	1.045	18.68	20.00	1.355	0.994	/
	Full Power		Top Edge	18	100	5500	0.02	0.101	95.70	1.045	8.91	10.00	1.285	0.136	/
	Full Power		Top Edge	18	140	5700	-0.19	0.083	95.70	1.045	9.19	11.00	1.517	0.132	/
Ant.3	Full Power	5.8G 802.11a	Back Side	18	157	5785	0.16	0.676	95.70	1.045	17.81	19.00	1.315	0.929	/
	Full Power		Top Edge	18	157	5785	-0.11	0.775	95.70	1.045	17.81	19.00	1.315	1.065	/
	Full Power		Top Edge	18	149	5745	0.14	0.782	95.70	1.045	17.51	19.00	1.409	1.151	/
	Full Power		Top Edge	18	165	5825	0.05	0.796	95.70	1.045	17.87	19.00	1.297	1.079	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

11.3 Bluetooth

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.2	DSI1	DH5	Back Side	0	0	2402	-0.03	0.841	76.61	1.013	13.35	14.00	1.161	**0.989**	5#
	Full Power		Right Edge	0	0	2402	0.11	0.031	76.61	1.013	13.35	14.00	1.161	0.036	/
	DSI1		Top Edge	0	0	2402	0.03	0.545	76.61	1.013	13.35	14.00	1.161	0.641	/
	DSI1		Back Side	0	39	2441	-0.14	0.604	76.61	1.013	11.98	13.00	1.265	0.774	/
	DSI1		Back Side	0	78	2480	0.08	0.517	76.61	1.013	11.22	13.00	1.507	0.789	/
Ant.2	DSI2	DH5	Back Side	0	0	2402	-0.01	0.122	76.61	1.013	4.51	5.00	1.119	0.138	/
	Full Power		Right Edge	0	0	2402	-0.12	0.008	76.61	1.013	4.51	5.00	1.119	0.009	/
	DSI2		Top Edge	0	0	2402	0.11	0.073	76.61	1.013	4.51	5.00	1.119	0.083	/
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^{1th} Measured SAR (W/kg)	Largest to Smallest SAR Radio
2402	Bluetooth	Body	Back Side	0.841	Yes	0.822	1.02
5530	WIFI5.6G	Body	Back Side	0.825	Yes	0.803	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	WIFI5G+BT	Yes
Note: 1. The maximum SAR summation is calculated based on the same configuration and test position.		

13.2 Sum SAR of Simultaneous Transmission

13.2.1 Body Simultaneous Transmission SAR Evaluation for WLAN Antenna with Bluetooth

Position	Stand alone SAR		SUM SAR
	1	2	
	Bluetooth	MAX. WLAN 5GHz	Sum SAR（1+2）
Back Side 0mm	0.138	1.166	**1.304**
Left Edge 0mm	0.000	0.393	0.393
Right Edge 0mm	0.009	0.000	0.009
Top Edge 0mm	0.083	1.139	1.222
Note: 1: The highest Summed 1g SAR is 1.304 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.			

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
2450MHz Validation Dipole	Speag	D2450V2	SN: 952	2024/05/07	2027/05/06
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: 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: 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. (℃)	Meas. Conductivity (σ) (S/m)	Meas. Permittivity (ε)	Target Conductivity (σ) (S/m)	Target Permittivity (ε)	Conductivity Tolerance (%)	Permittivity Tolerance (%)
2025.03.05	Head	2450	21.4	1.77	39.05	1.80	39.20	-1.67	-0.38
2025.03.06	Head	5250	21.7	4.56	35.75	4.71	35.93	-3.18	-0.50
2025.03.07	Head	5600	21.2	4.92	34.69	5.07	35.53	-2.96	-2.36
2025.03.08	Head	5750	21.5	5.24	36.07	5.22	35.36	0.38	2.01
Note: The tolerance limit of Conductivity and Permittivity is± 5%.									

ANNEX B SYSTEM CHECK RESULT

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

Head liquid 1g

Date	Liquid Type	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)
2025.03.05	Head	2450	100	5.36	53.60	52.60	1.90
2025.03.06	Head	5250	100	7.82	78.20	77.70	0.64
2025.03.07	Head	5600	100	8.12	81.20	81.30	-0.12
2025.03.08	Head	5750	100	7.74	77.40	77.60	-0.26
Note: The tolerance limit of System validation ±10%.							

System Performance Check Data (2450MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [℃]	Liquid Temperature [℃]
Flat, HSL		D2450	CW, 0--	2450.0, 50	6.98	1.77	39.0	22.1	21.4

Hardware Setup

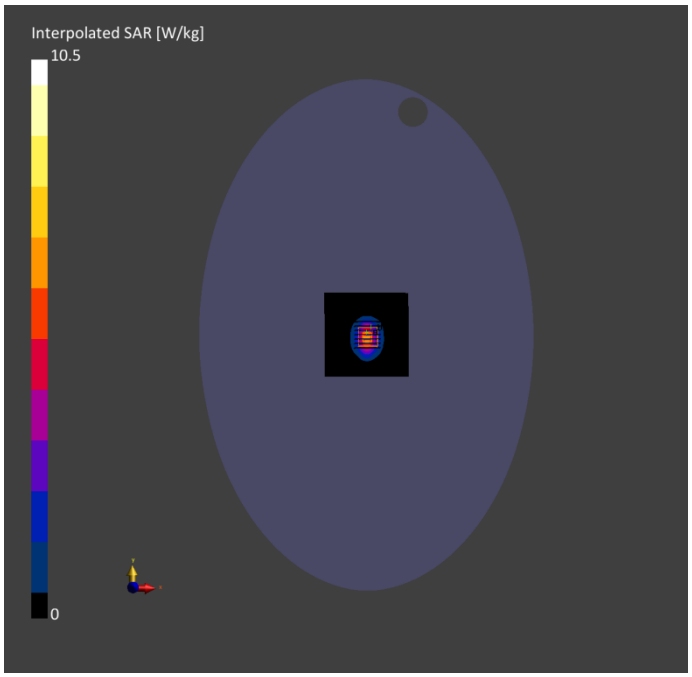
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2025-03-05	EX3DV4 - SN7893, 2024-09-05	DAE4 Sn1711, 2024-03-18

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	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	2025-03-05	2025-03-05
psSAR1g [W/kg]	5.12	5.36
psSAR10g [W/kg]	2.39	2.49
Power Drift [dB]	-0.11	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		80.2
Dist 3dB Peak [mm]		9.2


Interpolated SAR [W/kg]
10.5
0

System Performance Check Data (5250MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [℃]	Liquid Temperature [℃]
Flat, HSL		D5GHz	CW, 0--	5250.0, 30	5.44	4.56	35.8	22.6	21.7

Hardware Setup

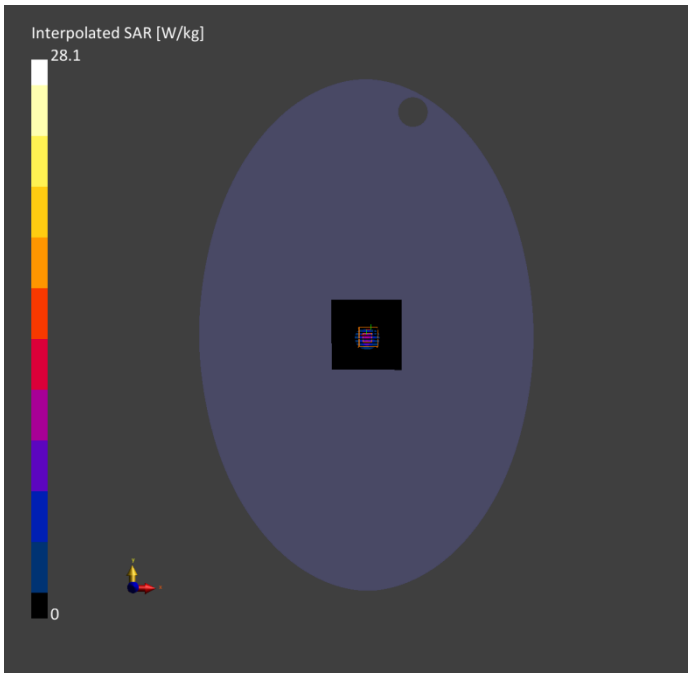
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2025-03-06	EX3DV4 - SN7893, 2024-09-05	DAE4 Sn1711, 2024-03-18

Scan Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2025-03-06	2025-03-06
psSAR1g [W/kg]	6.62	7.82
psSAR10g [W/kg]	1.99	2.23
Power Drift [dB]	0.03	0.01
Power Scaling Scaling Factor [dB]	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]		65.5
Dist 3dB Peak [mm]		7.6


Interpolated SAR [W/kg]
28.1
0

System Performance Check Data (5600MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [℃]	Liquid Temperature [℃]
Flat, HSL		D5GHz	CW, 0--	5600.0, 60	4.91	4.92	34.7	22.4	21.2

Hardware Setup

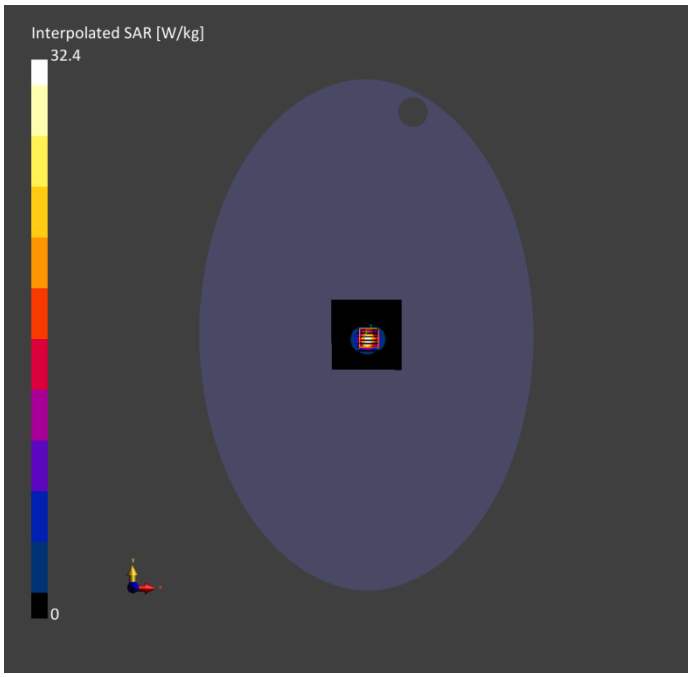
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2025-03-07	EX3DV4 - SN7893, 2024-09-05	DAE4 Sn1711, 2024-03-18

Scan Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2025-03-07	2025-03-07
psSAR1g [W/kg]	6.82	8.12
psSAR10g [W/kg]	2.09	2.31
Power Drift [dB]	-0.16	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		62.6
Dist 3dB Peak [mm]		7.7


Interpolated SAR [W/kg]
32.4
0

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 [℃]	Liquid Temperature [℃]
Flat, HSL		D5GHz	CW, 0--	5750.0, 80	4.98	5.24	36.1	22.3	21.5

Hardware Setup

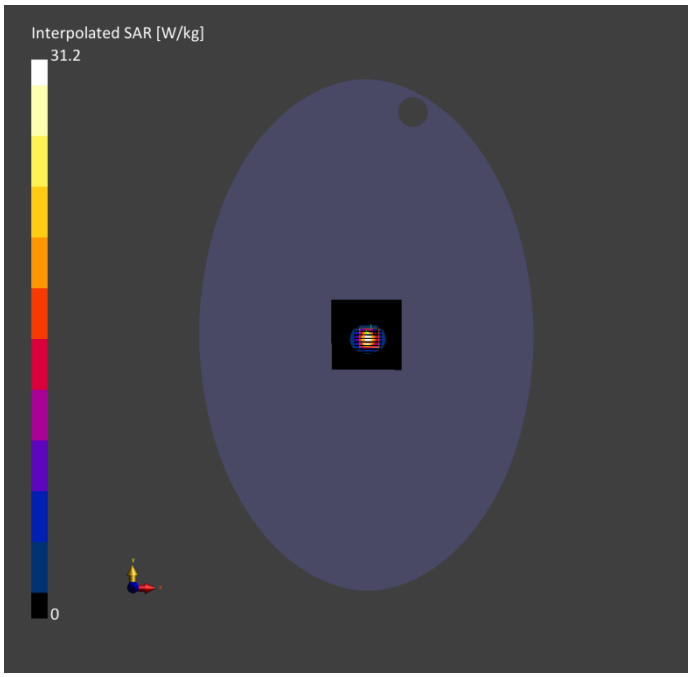
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2025-03-08	EX3DV4 - SN7893, 2024-09-05	DAE4 Sn1711, 2024-03-18

Scan Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2025-03-08	2025-03-08
psSAR1g [W/kg]	6.77	7.74
psSAR10g [W/kg]	2.06	2.16
Power Drift [dB]	0.05	0.01
Power Scaling Scaling Factor [dB]	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]		61.7
Dist 3dB Peak [mm]		8.3


Interpolated SAR [W/kg]
31.2
0

ANNEX C TEST DATA

Meas.1 Body Plane with Back Side 0mm on 6 Channel in IEEE802.11b mode with Antenna 2

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [℃]	Liquid Temperature [℃]
Flat, HSL	BACK, 0.00	WLAN 2.4GHz	WLAN, 10012-CAB	2437.0, 6	6.98	1.76	39.4	22.1	21.4

Hardware Setup

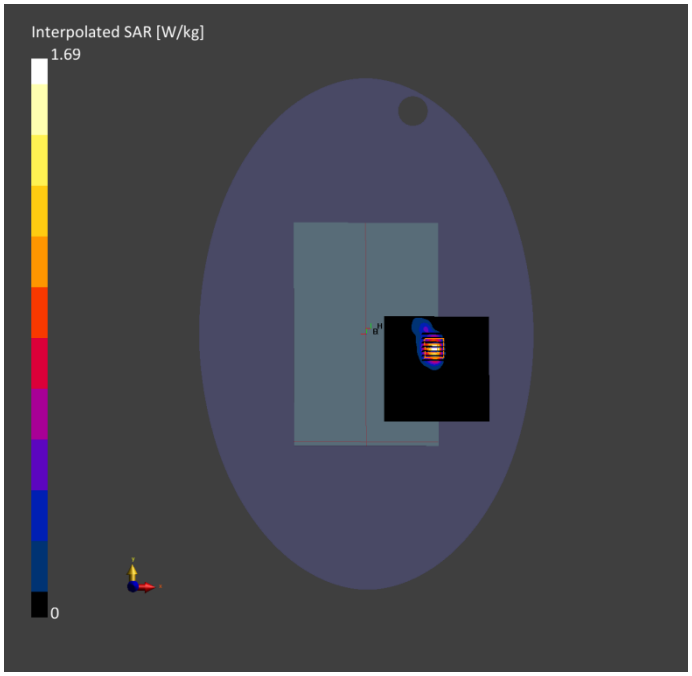
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2025-03-05	EX3DV4 - SN7893, 2024-09-05	DAE4 Sn1711, 2024-03-18

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	2025-03-05	2025-03-05
psSAR1g [W/kg]	0.554	0.775
psSAR10g [W/kg]	0.234	0.297
Power Drift [dB]	-0.17	-0.07
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		51.1
Dist 3dB Peak [mm]		6.1



Meas.2 Body Plane with Top Edge 0mm on 58 Channel in IEEE802.11ac80 mode with Antenna 3

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [℃]	Liquid Temperature [℃]
Flat, HSL	EDGE TOP, 0.00	WLAN 5GHz	WLAN, 10544-AAD	5290.0, 58	5.44	4.61	35.7	22.6	21.7

Hardware Setup

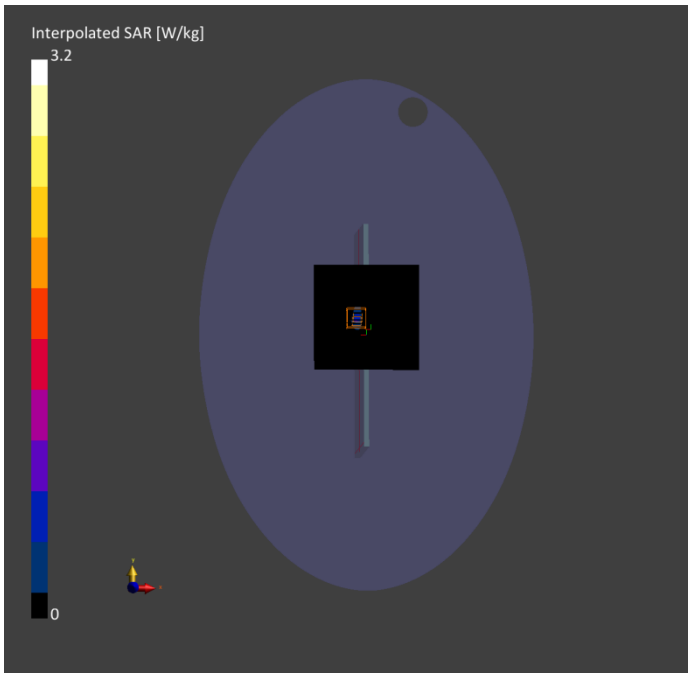
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2025-03-06	EX3DV4 - SN7893, 2024-09-05	DAE4 Sn1711, 2024-03-18

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	2025-03-06	2025-03-06
psSAR1g [W/kg]	0.422	0.639
psSAR10g [W/kg]	0.111	0.122
Power Drift [dB]	-0.06	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.5
Dist 3dB Peak [mm]		4.0



Meas.3 Body Plane with Back Side 0mm on 106 Channel in IEEE802.11ac80 mode with Antenna 3

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [℃]	Liquid Temperature [℃]
Flat, HSL	BACK, 0.00	WLAN 5GHz	WLAN, 10544-AAD	5530.0, 106	4.91	4.83	35.4	22.4	21.2

Hardware Setup

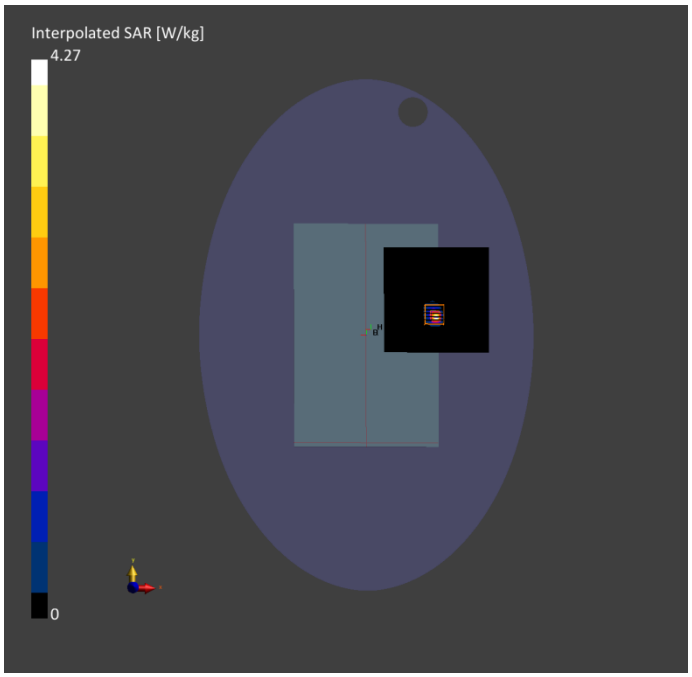
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2025-03-07	EX3DV4 - SN7893, 2024-09-05	DAE4 Sn1711, 2024-03-18

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	2025-03-07	2025-03-07
psSAR1g [W/kg]	0.547	0.825
psSAR10g [W/kg]	0.124	0.160
Power Drift [dB]	0.09	-0.14
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		47.8
Dist 3dB Peak [mm]		4.0



Meas.4 Body Plane with Back Side 0mm on 155 Channel in IEEE802.11ac80 mode with Antenna 3

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [℃]	Liquid Temperature [℃]
Flat, HSL	BACK, 0.00	WLAN 5GHz	WLAN, 10544-AAD	5775.0, 155	4.98	5.27	36.0	22.3	21.5

Hardware Setup

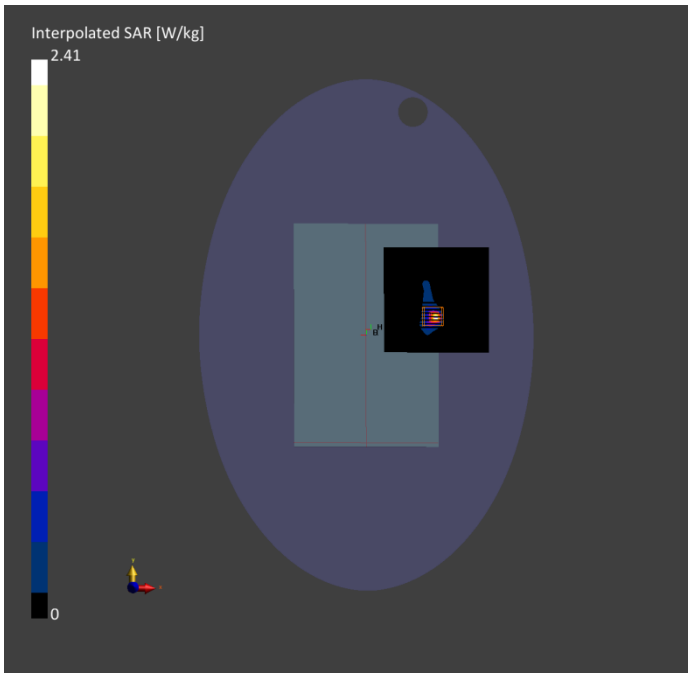
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2025-03-08	EX3DV4 - SN7893, 2024-09-05	DAE4 Sn1711, 2024-03-18

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	2025-03-08	2025-03-08
psSAR1g [W/kg]	0.334	0.468
psSAR10g [W/kg]	0.082	0.098
Power Drift [dB]	0.11	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		48.5
Dist 3dB Peak [mm]		4.0



Meas.5 Body Plane with Back Side 0mm on 0 Channel in Bluetooth mode with Antenna 2

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [℃]	Liquid Temperature [℃]
Flat, HSL	BACK, 0.00	ISM 2.4 GHz Band	Bluetooth, 10032-CAA	2402.0, 0	6.98	1.72	39.6	22.1	21.4

Hardware Setup

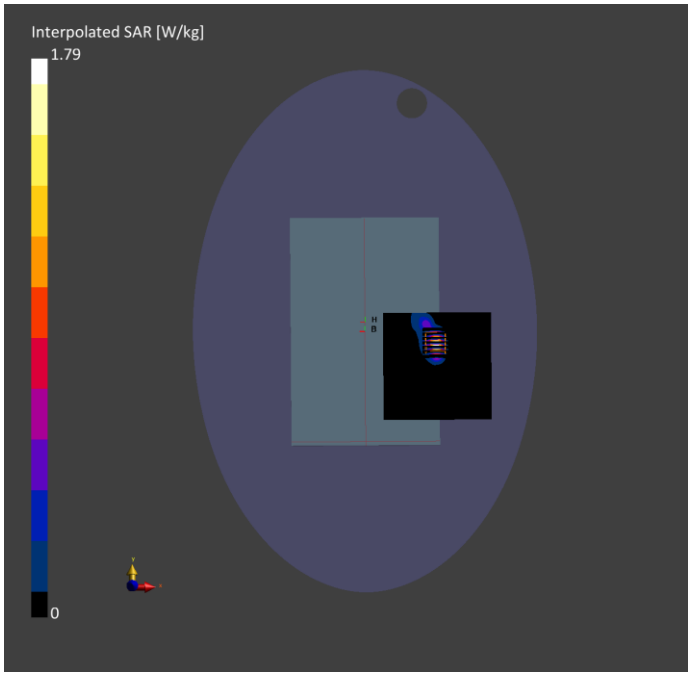
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2025-03-05	EX3DV4 - SN7893, 2024-09-05	DAE4 Sn1711, 2024-03-18

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	2025-03-05	2025-03-05
psSAR1g [W/kg]	0.772	0.841
psSAR10g [W/kg]	0.304	0.327
Power Drift [dB]	-0.13	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.7
Dist 3dB Peak [mm]		6.0



ANNEX D EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2520680-AW.pdf”.

ANNEX E SAR TEST SETUP PHOTOS

Please refer the document “BL-SZ2520680-AS.pdf”.

ANNEX F CALIBRATION REPORT

Please refer the document “BL-SZ2520680-AC.pdf”.

ANNEX G TUNE-UP PROCEDURE

Please refer the document “BL-SZ2520680-AT.pdf”.

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