



SAR Test Report

Report No.: STS2604334H01

Issued for

Beijing Babel Technology Co., Ltd.

4th Floor.Room 409.Block C I-M-WAY.45Cheng fu Rd.,
Haidian District,Beijing.China

Product Name: JoneR Translator 5.0

Brand Name: JoneR

Model Name: PL26

Series Model(s): N/A

FCC ID: 2ARVJ-PL26

Test Standard: ANSI/IEEE Std. C95.1
FCC 47 CFR Part 2 (2.1093)
IEEE Std. 1528-2013

Max. Report SAR Body: 0.795 W/kg(1g)

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

**TEST REPORT CERTIFICATION**

Applicant's name : Beijing Babel Technology Co., Ltd.
Address : 4th Floor.Room 409.Block C I-M-WAY.45Cheng fu Rd., Haidian District,Beijing.China
Manufacturer's Name : Beijing Babel Technology Co., Ltd.
Address : 4th Floor.Room 409.Block C I-M-WAY.45Cheng fu Rd., Haidian District,Beijing.China

Product description

Product name : JoneR Translator 5.0
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Standards : ANSI/IEEE Std. C95.1
FCC 47 CFR Part 2 (2.1093)
IEEE Std. 1528-2013

The device was tested by Shenzhen STS Test Services Co., Ltd. in accordance with the measurement methods and procedures specified in KDB 865664 The test results in this report apply only to the tested sample of the stated device/equipment. Other similar device/equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Date of Test

Date (s) of performance of tests : 09 Apr. 2026~10 Apr. 2026

Date of Issue..... : 20 Apr. 2026

Test Result..... : **Pass**

Testing Engineer :

(Xin.Liu)

Technical Manager :

(Shifan. Long)

Authorized Signatory :

(Bovey Yang)





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Revision History



Rev.	Issue Date	Report No.	Effect Page	Contents
00	20 Apr. 2026	STS2604334H01	ALL	Initial Issue



1. General Information

Environmental evaluation measurements of specific absorption rate (SAR) distributions in emulated human head and body tissues exposed to radio frequency (RF) radiation from wireless portable devices for compliance with the rules and regulations of the U.S. Federal Communications Commission (FCC).

1.1 EUT Description

Product Name	JoneR Translator 5.0		
Brand Name	JoneR		
Model Name	PL26		
Series Model	N/A		
Model Difference	N/A		
Sample number	260403004-1		
Battery	N/A		
Device Category	Portable		
Product stage	Production unit		
RF Exposure Environment	General Population / Uncontrolled		
Hardware Version	BBZN_F4_MB_V1.1		
Software Version	Android 8.1		
Frequency Range	LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 38: 2570 MHz ~ 2620 MHz WLAN 802.11b: 2412 MHz ~ 2462 MHz WLAN 802.11a: 5745 ~ 5825 MHz Bluetooth: 2402 MHz to 2480 MHz		
Max. Reported SAR(1g): (Limit: 1.6 & 4.0 W/kg) Test distance: Body: 0mm	Band	Mode	Body Worn (W/kg)
	PCE	LTE Band 5	0.693
	PCE	LTE Band 7	0.795
	PCE	LTE Band 38	0.673
	DTS	2.4G WLAN	0.510
	DSS	BLE	0.084
	NII	5.2G WLAN	0.334
1-g Sum SAR			1.305



FCC Equipment Class	Licensed Portable Transmitter Held to Ear (PCE) Part 15 Spread Spectrum Transmitter (DSS) Digital Transmission System (DTS) Unlicensed National Information Infrastructure TX(NII)
Operating Mode:	LTE: QPSK, 16QAM 2.4G WLAN : 802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM 5G WLAN: 802.11a(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11ac(OFDM):BPSK,QPSK,16-QAM,64-QAM,256-QAM Bluetooth: GFSK + π /4DQPSK+8DPSK BLE: GFSK
Antenna Specification:	WCDMA/LTE: PIFA Antenna WLAN/BLE: PIFA Antenna
Hotspot Mode	Not Support
DTM Mode	Not Support
Note: 1. The EUT battery must be fully charged and checked periodically during the test to ascertain uniform power	

1.2 Test Environment

Ambient conditions in the SAR laboratory:

Items	Required
Temperature (°C)	18-25
Humidity (%RH)	30-70

1.3 Test Factory

ShenZhen STS Test Services Co.,Ltd.

101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration No.: 625569

IC Registration No.: 12108A

A2LA Certificate No.: 4338.01



2. Test Standards and Limits

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	IEEE Std C95.1, 2019	IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz. It specifies the maximum exposure limit of 1.6 W/kg as averaged over any 1 gram of tissue for portable devices being used within 20 cm of the user in the uncontrolled environment.
3	IEEE Std. 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
4	FCC KDB 447498 D04 v01	RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices
5	FCC KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
6	FCC KDB 865664 D02 v01r02	RF Exposure Reporting
7	FCC KDB 248227 D01 Wi-Fi SAR v02r02	SAR Considerations for 802.11 Devices

(A). Limits for Occupational/Controlled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.4	8.0	20.0

(B). Limits for General Population/Uncontrolled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.08	1.6	4.0

NOTE: Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 1 gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

Population/Uncontrolled Environments:

Are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

Occupational/Controlled Environments:

Are defined as locations where there is exposure that may be incurred by people who are aware of the potential for exposure, (i.e. as a result of employment or occupation).

NOTE

GENERAL POPULATION/UNCONTROLLED EXPOSURE

PARTIAL BODY LIMIT

1.6 W/kg

3. SAR Measurement System

3.1 Definition of Specific Absorption Rate (SAR)

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:

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

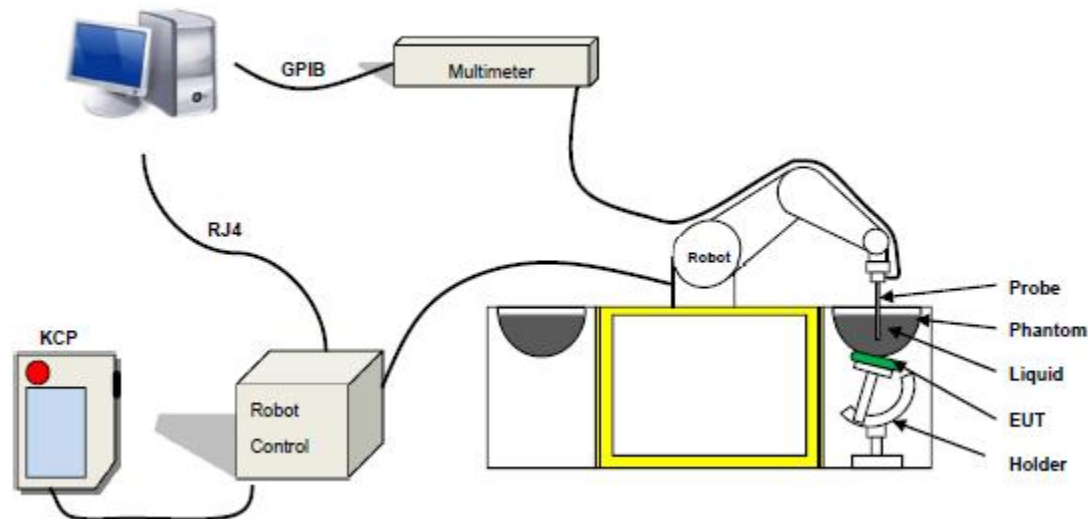
SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be related to the electrical field in the tissue by

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

Where: σ is the conductivity of the tissue,
ρ is the mass density of the tissue and E is the RMS electrical field strength.

3.2 SAR System

MVG SAR System Diagram:



COMOSAR is a system that is able to determine the SAR distribution inside a phantom of human being according to different standards. The COMOSAR system consists of the following items:

- Main computer to control all the system
- 6 axis robot
- Data acquisition system
- Miniature E-field probe
- Phone holder
- Head simulating tissue

The following figure shows the system.



The EUT under test operating at the maximum power level is placed in the phone holder, under the phantom, which is filled with head simulating liquid. The E-Field probe measures the electric field inside the phantom. The Open SAR software computes the results to give a SAR value in a 1g or 10g mass.

3.2.1 Probe

For the measurements the Specific Dosimetric E-Field Probe SN 08/21 EPGO352 with following specifications is used

- Probe Length: 330 mm
- Length of Individual Dipoles: 2 mm
- Maximum external diameter: 8 mm
- Probe Tip External Diameter: 2.5 mm
- Distance between dipole/probe extremity: 1 mm
- Dynamic range: 0.01-100 W/kg
- Probe linearity: 3%
- Axial Isotropy: < 0.10 dB
- Spherical Isotropy: < 0.10 dB
- Calibration range: 150 MHz to 6 GHz for head & body simulating liquid.
- Angle between probe axis (evaluation axis) and surface normal line: less than 30°

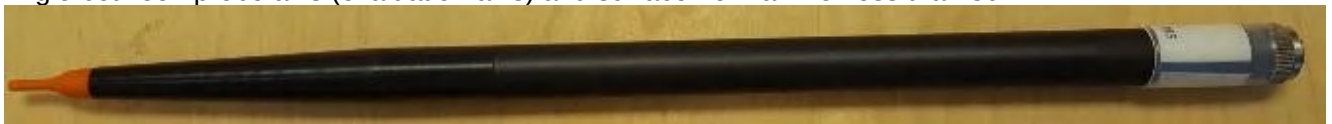


Figure 1-MVG COMOSAR Dosimetric E field Dipole

3.2.2 Phantom

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

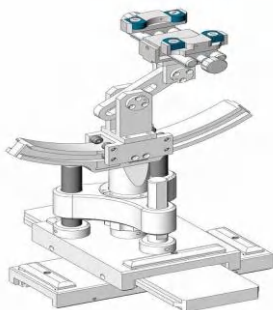
SN 32/14 SAM115



Figure-SN 21/21 ELLI48



3.2.3 Device Holder



The SAR in the phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source at 5 mm distance, a positioning uncertainty of ± 0.5 mm would produce a SAR uncertainty of ± 20 %. Accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions in which the devices must be measured are defined by the standards.

4. Tissue Simulating Liquids



4. Tissue Simulating Liquids

4.1 Simulating Liquids Parameter Check

The simulating liquids should be checked at the beginning of a series of SAR measurements to determine if the dielectric parameters are within the tolerances of the specified target values

The uncertainty due to the liquid conductivity and permittivity arises from two different sources. The first source of error is the deviation of the liquid conductivity from its target value (max _ 5 %) and the second source of error arises from the measurement procedures used to assess conductivity. The uncertainty shall be assessed using a rectangular probability For 1 g averaging, the maximum weighting coefficient for SAR is 0,5.

IEEE SCC-34/SC-2 RECOMMENDED TISSUE DIELECTRIC PARAMETERS

The head and body tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 have been incorporated in the following table.

Frequency	ϵ_r	σ 10g S/m
300	45.3	0.87
450	43.5	0.87
750	41.9	0.89
835	41.5	0.90
900	41.5	0.97
1450	40.5	1.20
1800 to 2000	40.0	1.40
2100	39.8	1.49
2450	39.2	1.80
2600	39.0	1.96
3000	38.5	2.40
3500	37.9	2.91
4000	37.4	3.43
4500	36.8	3.94
5000	36.2	4.45
5200	36.0	4.66
5400	35.8	4.86
5600	35.5	5.07
5800	35.3	5.27



The following table gives the recipes for tissue simulating liquid and the theoretical Conductivity/Permittivity.

Head (Reference IEEE1528)								
Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity σ (S/m)	Permittivity ϵ
750	41.1	57.0	0.2	1.4	0.2	0	0.89	41.9
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5
900	40.3	57.9	0.2	1.4	0.2	0	0.97	41.5
1800, 1900, 2000	55.2	0	0	0.3	0	44.5	1.4	40.0
2450	55.0	0	0	0.1	0	44.9	1.80	39.2
2600	54.9	0	0	0.1	0	45.0	1.96	39.0
Frequency (MHz)	Water (%)	Hexyl Carbitol (%)			Triton X-100 (%)		Conductivity σ (S/m)	Permittivity ϵ
5200	62.52	17.24			17.24		4.66	36.0
5800	62.52	17.24			17.24		5.27	35.3
Body (From instrument manufacturer)								
Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity σ (S/m)	Permittivity ϵ
750	51.7	47.2	0	0.9	0.1	0	0.96	55.5
835	50.8	48.2	0	0.9	0.1	0	0.97	55.2
900	50.8	48.2	0	0.9	0.1	0	1.05	55.0
1800, 1900, 2000	70.2	0	0	0.4	0	29.4	1.52	53.3
2450	68.6	0	0	0.1	0	31.3	1.95	52.7
2600	68.2	0	0	0.1	0	31.7	2.16	52.5
Frequency(MHz)	Water	DGBE (%)			Salt (%)		Conductivity σ (S/m)	Permittivity ϵ
5200	78.60	21.40			/		5.30	49.00
5800	78.50	21.40			0.1		6.00	48.20

**LIQUID MEASUREMENT RESULTS**

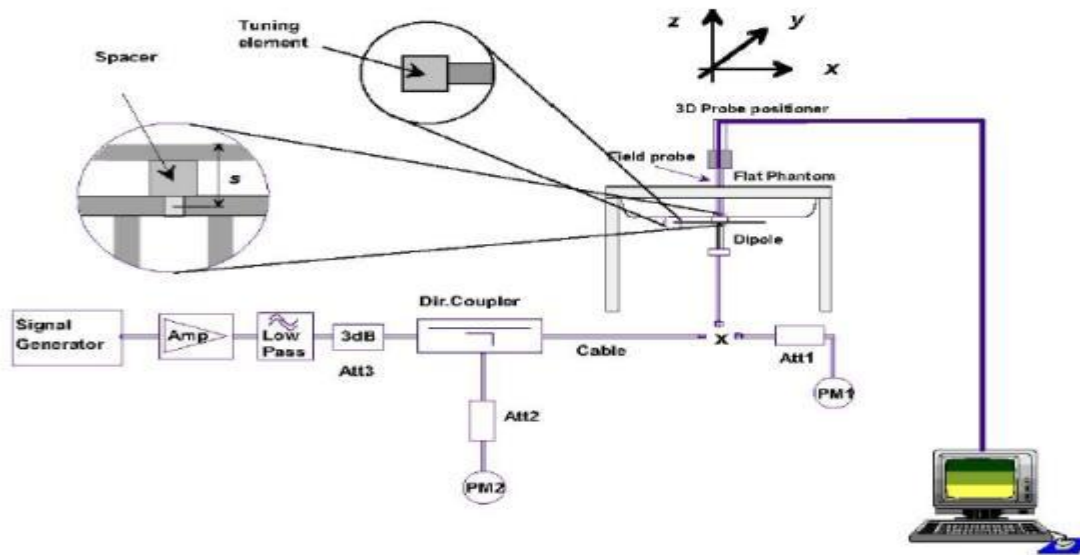
Date	Ambient		Simulating Liquid		Parameters	Target	Measured	Deviation %	Limited %
	Temp. [°C]	Humidity %	Frequency (MHz)	Temp. [°C]					
2026-04-09	23.1	49	835	22.8	Permittivity	41.50	41.52	0.05	±5
					Conductivity	0.90	0.89	-1.11	±5
2026-04-09	23.1	49	836.5	22.8	Permittivity	41.49	42.18	1.66	±5
					Conductivity	0.90	0.88	-2.24	±5
2026-04-09	23.2	50	844	22.9	Permittivity	41.46	42.65	2.88	±5
					Conductivity	0.90	0.89	-1.23	±5
2026-04-09	23.1	49	2450	22.6	Permittivity	39.20	38.76	-1.12	±5
					Conductivity	1.80	1.82	1.11	±5
2026-04-09	23.1	49	2462	22.8	Permittivity	39.18	38.90	-0.71	±5
					Conductivity	1.81	1.82	0.52	±5
2026-04-09	23.1	49	2480	22.9	Permittivity	39.15	39.28	0.34	±5
					Conductivity	1.83	1.82	-0.36	±5
2026-04-10	24.0	59	2510	23.7	Permittivity	39.12	39.66	1.38	±5
					Conductivity	1.86	1.85	-0.75	±5
2026-04-10	24.1	59	2535	23.8	Permittivity	39.09	39.32	0.60	±5
					Conductivity	1.89	1.90	0.49	±5
2026-04-10	24.1	59	2560	23.8	Permittivity	39.05	39.64	1.50	±5
					Conductivity	1.92	1.92	0.14	±5
2026-04-10	24.1	59	2600	23.8	Permittivity	39.00	39.28	0.72	±5
					Conductivity	1.96	1.94	-1.02	±5
2026-04-10	24.1	59	2680	23.8	Permittivity	38.89	39.66	1.97	±5
					Conductivity	2.05	2.03	-0.75	±5
2026-04-10	24.1	59	5745	23.8	Permittivity	35.36	35.41	0.16	±5
					Conductivity	5.21	5.24	0.53	±5
2026-04-10	24.1	59	5800	23.8	Permittivity	35.30	35.48	0.51	±5
					Conductivity	5.27	5.28	0.19	±5

5. SAR System Validation

5.1 Validation System

Each MVG system is equipped with one or more system validation kits. These units, together with the predefined measurement procedures within the MVG software, enable the user to conduct the system performance check and system validation. System kit includes a dipole, and dipole device holder.

The system check verifies that the system operates within its specifications. It's performed daily or before every SAR measurement. The system check uses normal SAR measurement in the flat section of the phantom with a matched dipole at a specified distance. The system validation setup is shown as below.





5.2 Validation Result

Comparing to the original SAR value provided by MVG, the validation data should be within its specification of 10 %.

Date	Frequency (MHz)	Power	SAR _{1g} (W/Kg)	SAR _{10g} (W/Kg)	Drift (%)	1W Target		Difference percentage		Limited %
						SAR _{1g} (W/Kg)	SAR _{10g} (W/Kg)	1g	10g	
2026-04-09	835	100 mW	0.923	0.629	-0.43	9.63	6.15	-4.15%	2.28%	10
		Normalize to 1 Watt	9.23	6.29						
2026-04-09	2450	100 mW	5.423	2.423	0.43	54.70	24.11	-0.86%	0.50%	10
		Normalize to 1 Watt	54.23	24.23						
2026-04-10	2600	100 mW	5.578	2.445	-2.43	56.19	24.08	-0.73%	1.54%	10
		Normalize to 1 Watt	55.78	24.45						
2026-04-10	5800	10 mW	1.932	0.618	0.62	188.95	63.45	2.28%	-2.60%	10
		Normalize to 1 Watt	193.25	61.80						

Note:

(1) We use a CW signal of 20dBm(835/2450MHz) and 10dBm(5000-6000MHz) for system check, and then all SAR values are normalized to 1W forward power. The result must be within $\pm 10\%$ of target value.



6. SAR Evaluation Procedures

The procedure for assessing the average SAR value consists of the following steps:

The following steps are used for each test position

- 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
- Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- 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.
- 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.

➤ Area Scan& Zoom Scan

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 D01 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.

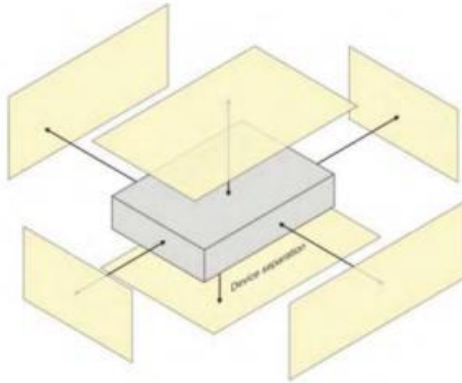
7. EUT Test Position

This EUT was tested in Back Side, Front Side, Left Side, Right Side, Top Side, Bottom Side

7.1 Body-worn Position Conditions

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 Publication 447498 D04 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. When the same wireless transmission configuration is used for testing body-worn accessory and hotspot mode SAR, respectively, in voice and data mode, SAR results for the most conservative *test separation distance* configuration may be used to support both SAR conditions. When the *reported* SAR for a body-worn accessory, measured without a headset connected to the handset, is $> 1.2 \text{ W/kg}$, the highest *reported* SAR configuration for that wireless mode and frequency band should be repeated for the body-worn accessory with a headset attached to the handset.





9. Uncertainty

9.1 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in IEEE 1528: 2013. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

SATIMO Uncertainty- SN 08/21 EPG0352									
Measurement uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+/- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+/- %)	10g Ui (+/- %)	vi
Measurement System									
Probe calibration	E.2.1	5.72	N	1.00	1.00	1.00	5.72	5.72	∞
Axial Isotropy	E.2.2	0.18	R	1.73	0.71	0.71	0.07	0.07	∞
Hemispherical Isotropy	E.2.2	1.04	R	1.73	0.71	0.71	0.42	0.42	∞
Boundary effect	E.2.3	0.80	R	1.73	1.00	1.00	0.46	0.46	∞
Linearity	E.2.4	1.25	R	1.73	1.00	1.00	0.72	0.72	∞
System detection limits	E.2.4	1.20	R	1.73	1.00	1.00	0.69	0.69	∞
Modulation response	E.2.5	3.42	R	1.73	1.00	1.00	1.97	1.97	∞
Readout Electronics	E.2.6	0.26	N	1.00	1.00	1.00	0.26	0.26	∞
Response Time	E.2.7	0.17	R	1.73	1.00	1.00	0.10	0.10	∞
Integration Time	E.2.8	1.43	R	1.73	1.00	1.00	0.83	0.83	∞
RF ambient conditions-Noise	E.6.1	3.51	R	1.73	1.00	1.00	2.03	2.03	∞
RF ambient conditions-reflections	E.6.1	3.15	R	1.73	1.00	1.00	1.82	1.82	∞
Probe positioner mechanical tolerance	E.6.2	1.20	R	1.73	1.00	1.00	0.69	0.69	∞
Probe positioning with respect to phantom shell	E.6.3	1.40	R	1.73	1.00	1.00	0.81	0.81	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.10	R	1.73	1.00	1.00	1.21	1.21	∞
Test sample Related									
Test sample positioning	E.4.2	3.10	N	1.00	1.00	1.00	3.10	3.10	∞
Device holder uncertainty	E.4.1	3.80	N	1.00	1.00	1.00	3.80	3.80	∞
Output power variation—SAR drift measurement	E.2.9	4.50	R	1.73	1.00	1.00	2.60	2.60	∞
SAR scaling	E.6.5	1.80	R	1.73	1.00	1.00	1.04	1.04	∞
Phantom and tissue parameters									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	3.70	R	1.73	1.00	1.00	2.14	2.14	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.90	N	1.00	1.00	0.84	1.90	1.60	∞
Liquid conductivity measurement	E.3.3	2.40	R	1.73	0.78	0.71	1.08	0.98	M
Liquid permittivity measurement	E.3.3	4.10	N	1.00	0.78	0.71	3.20	2.91	M
Liquid conductivity—temperature uncertainty	E.3.4	2.70	R	1.73	0.23	0.26	0.36	0.41	∞
Liquid permittivity—temperature uncertainty	E.3.4	4.80	N	1.00	0.23	0.26	1.10	1.25	∞
Combined Standard Uncertainty			RSS				10.08	9.59	
Expanded Uncertainty (95% Confidence interval)			K=2				19.58	19.18	



SATIMO Uncertainty- SN 08/21 EPGO352									
System Validation uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+-%)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System									
Probe calibration	E.2.1	5.72	N	1.00	1.00	1.00	5.72	5.72	∞
Axial Isotropy	E.2.2	0.18	R	1.73	1.00	1.00	0.10	0.10	∞
Hemispherical Isotropy	E.2.2	1.04	R	1.73	0.00	0.00	0.00	0.00	∞
Boundary effect	E.2.3	0.80	R	1.73	1.00	1.00	0.46	0.46	∞
Linearity	E.2.4	1.25	R	1.73	1.00	1.00	0.72	0.72	∞
System detection limits	E.2.4	1.20	R	1.73	1.00	1.00	0.69	0.69	∞
Modulation response	E.2.5	3.42	R	1.73	0.00	0.00	0.00	0.00	∞
Readout Electronics	E.2.6	0.26	N	1.00	1.00	1.00	0.26	0.26	∞
Response Time	E.2.7	0.17	R	1.73	0.00	0.00	0.00	0.00	∞
Integration Time	E.2.8	1.43	R	1.73	0.00	0.00	0.00	0.00	∞
RF ambient conditions-Noise	E.6.1	3.51	R	1.73	1.00	1.00	2.03	2.03	∞
RF ambient conditions-reflections	E.6.1	3.15	R	1.73	1.00	1.00	1.82	1.82	∞
Probe positioner mechanical tolerance	E.6.2	1.20	R	1.73	1.00	1.00	0.69	0.69	∞
Probe positioning with respect to phantom shell	E.6.3	1.40	R	1.73	1.00	1.00	0.81	0.81	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.10	R	1.73	1.00	1.00	1.21	1.21	∞
System validation source									
Deviation of experimental dipole from numerical dipole	E.6.4	4.80	N	1.00	1.00	1.00	4.80	4.80	∞
Input power and SAR drift measurement	8,6.6.4	5.10	R	1.73	1.00	1.00	2.94	2.94	∞
Dipole axis to liquid distance	8,E.6.6	2.40	R	1.73	1.00	1.00	1.39	1.39	∞
Phantom and set-up									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	3.70	R	1.73	1.00	1.00	2.14	2.14	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.90	N	1.00	1.00	0.84	1.90	1.60	∞
Liquid conductivity (temperature uncertainty)	E.3.3	2.40	R	1.73	0.78	0.71	1.08	0.98	∞
Liquid conductivity (measured)	E.3.3	4.10	N	1.00	0.78	0.71	3.20	2.91	M
Liquid permittivity (temperature uncertainty)	E.3.4	2.70	R	1.73	0.23	0.26	0.36	0.41	∞
Liquid permittivity (measured)	E.3.4	4.80	N	1.00	0.23	0.26	1.10	1.25	M
Combined Standard Uncertainty			RSS				9.72	9.52	
Expanded Uncertainty (95% Confidence interval)			K=2				19.44	19.03	



SATIMO Uncertainty- SN 08/21 EPGO352									
。 System Check uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+ - %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+- %)	10g Ui (+-%)	vi
Measurement System									
Probe calibration drift	E.2.1.3	5.72	N	1.00	1.00	1.00	5.72	5.72	∞
Axial Isotropy	E.2.2	0.18	R	1.73	0.00	0.00	0.00	0.00	∞
Hemispherical Isotropy	E.2.2	1.04	R	1.73	0.00	0.00	0.00	0.00	∞
Boundary effect	E.2.3	0.8	R	1.73	0.00	0.00	0.00	0.00	∞
Linearity	E.2.4	1.25	R	1.73	0.00	0.00	0.00	0.00	∞
System detection limits	E.2.4	1.20	R	1.73	0.00	0.00	0.00	0.00	∞
Modulation response	E.2.5	3.42	R	1.73	0.00	0.00	0.00	0.00	∞
Readout Electronics	E.2.6	0.26	N	1.00	0.00	0.00	0.00	0.00	∞
Response Time	E.2.7	0.17	R	1.73	0.00	0.00	0.00	0.00	∞
Integration Time	E.2.8	1.43	R	1.73	0.00	0.00	0.00	0.00	∞
RF ambient conditions- Noise	E.6.1	3.51	R	1.73	0.00	0.00	0.00	0.00	∞
RF ambient conditions- reflections	E.6.1	3.15	R	1.73	0.00	0.00	0.00	0.00	∞
Probe positioner mechanical tolerance	E.6.2	1.2	R	1.73	1.00	1.00	0.69	0.69	∞
Probe positioning with respect to phantom shell	E.6.3	1.4	R	1.73	1.00	1.00	0.81	0.81	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	3.9	R	1.73	0.00	0.00	0.00	0.00	∞
System check source (dipole)									
Deviation of experimental dipoles	E.6.4	4.8	N	1.00	1.00	1.00	4.80	4.80	∞
Input power and SAR drift measurement	8,6.6.4	5.1	R	1.73	1.00	1.00	2.94	2.94	∞
Dipole axis to liquid distance	8,E.6.6	2.4	R	1.73	1.00	1.00	1.39	1.39	∞
Phantom and tissue parameters									
Phantom shell uncertainty— shape, thickness, and permittivity	E.3.1	3.7	R	1.73	1.00	1.00	2.14	2.14	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1.00	1.00	0.84	1.90	1.60	∞
Liquid conductivity measurement	E.3.3	2.4	R	1.73	0.78	0.71	1.08	0.98	∞
Liquid permittivity measurement	E.3.3	4.1	N	1.00	0.78	0.71	3.20	2.91	M
Liquid conductivity— temperature uncertainty	E.3.4	2.7	R	1.73	0.23	0.26	0.36	0.41	∞
Liquid permittivity— temperature uncertainty	E.3.4	4.8	N	1.00	0.23	0.26	1.10	1.25	M
Combined Standard Uncertainty			RSS				5.56	5.20	
Expanded Uncertainty (95% Confidence interval)			K=2				11.12	10.41	



10. Conducted Power Measurement

10.1 Test Result

LTE Conducted Power

General Note:

1. Anritsu CMW500 base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
2. Per KDB 941225 D05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
3. Per KDB 941225 D05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
4. Per KDB 941225 D05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
5. Per KDB 941225 D05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
6. Per KDB 941225 D05, 16QAM output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05, 16QAM SAR testing is not required.
7. Per KDB 941225 D05, Smaller bandwidth output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05, smaller bandwidth SAR testing is not required.



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.44	23.63	23.05
1.4	1	2		23.59	23.79	23.26
1.4	1	5		23.46	23.65	23.08
1.4	3	0		23.44	23.58	23.12
1.4	3	1		23.44	23.60	23.12
1.4	3	2		23.45	23.61	23.05
1.4	6	0		22.46	22.67	22.13
1.4	1	0	16-QAM	22.26	22.74	22.30
1.4	1	2		22.41	22.83	22.35
1.4	1	5		22.30	22.68	22.29
1.4	3	0		22.61	22.63	22.39
1.4	3	1		22.60	22.78	22.40
1.4	3	2		22.63	22.76	22.38
1.4	6	0		21.62	21.63	21.24
3	1	0	QPSK	22.87	23.06	23.14
3	1	7		22.97	23.21	23.44
3	1	14		22.84	23.04	23.16
3	8	0		21.91	22.09	22.12
3	8	4		21.97	22.10	22.15
3	8	7		21.94	22.10	22.11
3	15	0		21.88	22.06	22.09
3	1	0	16-QAM	22.33	22.30	22.04
3	1	7		22.61	22.51	22.40
3	1	14		22.33	22.26	22.08
3	8	0		20.93	21.08	21.15
3	8	4		20.96	21.09	21.12
3	8	7		20.92	21.03	21.08
3	15	0		20.87	20.97	21.16



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.77	22.97	22.91
5	1	12		23.22	23.33	23.42
5	1	24		22.83	22.93	22.94
5	12	0		21.87	22.03	22.11
5	12	6		21.96	22.11	22.17
5	12	11		21.91	22.11	22.08
5	25	0		21.92	22.10	22.13
5	1	0	16-QAM	22.31	22.33	22.28
5	1	12		22.88	22.71	22.78
5	1	24		22.50	22.27	22.39
5	12	0		20.89	21.02	21.14
5	12	6		20.96	21.07	21.18
5	12	11		20.92	21.00	21.09
5	25	0		20.89	21.08	21.06
10	1	0	QPSK	22.77	23.01	23.07
10	1	24		23.01	23.10	23.20
10	1	49		22.93	22.98	23.11
10	25	0		22.01	22.15	22.10
10	25	12		21.99	22.11	22.08
10	25	24		21.97	22.18	22.11
10	50	0		21.99	22.17	22.08
10	1	0	16-QAM	22.24	22.21	21.93
10	1	24		22.48	22.33	22.02
10	1	49		22.43	22.19	21.99
10	25	0		21.00	21.07	21.04
10	25	12		20.97	21.07	21.05
10	25	24		20.95	21.15	21.09
10	50	0		21.00	21.19	21.02



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.86	23.04	22.69
5	1	12		24.15	23.41	23.14
5	1	24		23.69	23.00	22.71
5	12	0		22.88	22.08	21.78
5	12	6		22.91	22.14	21.87
5	12	11		22.81	22.00	21.80
5	25	0		22.85	22.11	21.85
5	1	0	16-QAM	23.31	22.33	21.96
5	1	12		23.63	22.82	22.36
5	1	24		23.12	22.34	21.99
5	12	0		21.87	21.05	20.90
5	12	6		21.92	21.15	20.93
5	12	11		21.76	21.06	20.88
5	25	0		21.78	21.14	20.81
10	1	0	QPSK	23.85	23.12	22.88
10	1	24		23.88	23.24	23.02
10	1	49		23.62	23.05	22.92
10	25	0		22.85	22.20	21.86
10	25	12		22.85	22.14	21.88
10	25	24		22.78	22.08	21.85
10	50	0		22.81	22.14	21.87
10	1	0	16-QAM	23.21	22.30	21.64
10	1	24		23.25	22.36	21.72
10	1	49		22.99	22.16	21.64
10	25	0		21.83	21.15	20.90
10	25	12		21.83	21.17	20.89
10	25	24		21.78	21.09	20.87
10	50	0		21.80	21.21	20.84



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.75	23.12	22.86
15	1	37		23.97	23.23	23.18
15	1	74		23.42	22.87	22.82
15	36	0		22.84	22.16	21.90
15	36	18		22.76	22.17	21.94
15	36	39		22.72	22.02	21.90
15	75	0		22.76	22.19	21.98
15	1	0	16-QAM	23.09	22.27	21.91
15	1	38		23.40	22.56	22.14
15	1	75		22.79	21.97	21.86
15	36	0		21.79	21.23	20.92
15	36	18		21.76	21.24	20.89
15	36	39		21.73	21.10	20.87
15	75	0		21.73	21.17	20.95
20	1	0	QPSK	23.59	23.03	22.66
20	1	49		23.84	23.31	23.03
20	1	99		23.20	22.78	22.57
20	50	0		22.70	22.21	21.92
20	50	24		22.70	22.13	21.89
20	50	49		22.58	21.99	21.77
20	100	0		22.63	22.08	21.82
20	1	0	16-QAM	22.90	22.14	21.90
20	1	49		23.06	22.44	22.22
20	1	99		22.43	21.94	21.77
20	50	0		21.70	21.14	20.93
20	50	24		21.70	21.14	20.95
20	50	49		21.59	21.03	20.79
20	100	0		21.62	21.11	20.87



LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.70	22.93	23.25
5	1	12		23.00	23.25	23.60
5	1	24		22.67	22.94	23.34
5	12	0		21.77	21.92	22.41
5	12	6		21.79	21.98	22.45
5	12	11		21.74	21.94	22.40
5	25	0		21.76	21.97	22.46
5	1	0	16-QAM	22.29	22.05	22.51
5	1	12		22.52	22.33	22.86
5	1	24		22.25	22.05	22.65
5	12	0		20.84	20.82	21.42
5	12	6		20.89	20.91	21.50
5	12	11		20.78	20.93	21.42
5	25	0		20.76	20.93	21.39
10	1	0	QPSK	22.72	22.92	23.31
10	1	24		22.88	23.14	23.55
10	1	49		22.75	23.04	23.48
10	25	0		21.81	21.96	22.33
10	25	12		21.81	22.01	22.38
10	25	24		21.80	22.06	22.43
10	50	0		21.81	22.01	22.44
10	1	0	16-QAM	22.19	21.96	22.13
10	1	24		22.33	22.19	22.41
10	1	49		22.22	22.06	22.35
10	25	0		20.86	20.91	21.34
10	25	12		20.85	20.98	21.35
10	25	24		20.88	21.01	21.39
10	50	0		20.79	21.00	21.35



LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.68	22.79	23.18
15	1	37		23.06	23.26	23.75
15	1	74		22.70	22.96	23.48
15	36	0		21.78	21.98	22.37
15	36	18		21.85	22.10	22.44
15	36	39		21.87	22.15	22.47
15	75	0		21.88	22.09	22.59
15	1	0	16-QAM	22.12	21.88	22.24
15	1	37		22.47	22.27	22.74
15	1	74		22.15	22.00	22.56
15	36	0		20.87	20.98	21.35
15	36	18		20.92	21.10	21.62
15	36	39		20.96	21.10	21.66
15	75	0		20.89	21.00	21.78
20	1	0	QPSK	22.56	22.61	22.80
20	1	49		23.03	23.24	23.72
20	1	99		22.63	22.84	23.45
20	50	0		21.78	21.85	22.28
20	50	24		21.86	21.98	22.69
20	50	49		21.86	22.24	22.79
20	100	0		21.81	21.99	22.67
20	1	0	16-QAM	21.70	21.78	22.07
20	1	49		22.27	22.31	22.91
20	1	99		21.73	21.89	22.59
20	50	0		20.85	20.84	21.52
20	50	24		20.97	21.34	21.78
20	50	49		20.93	21.22	21.84
20	100	0		20.85	21.17	21.66

**2.4G WLAN**

2.4GWIFI				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
802.11b	1	2412	12.37	17.26
	7	2437	12.32	17.06
	11	2462	12.53	17.91

5.2G WLAN

5.2G WLAN				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
802.11a	149	5745	13.86	24.32
	157	5785	12.85	19.28
	165	5825	12.71	18.66

BT

BT				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	5.90	3.89
	39	2441	6.73	4.71
	78	2480	6.99	5.00
$\pi/4$ -QPSK(2Mbps)	0	2402	5.32	3.40
	39	2441	6.04	4.02
	78	2480	6.24	4.21
8DPSK(3Mbps)	0	2402	5.45	3.51
	39	2441	6.22	4.19
	78	2480	6.40	4.37

BLE

BLE				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	5.93	3.92
	19	2440	6.71	4.69
	39	2480	6.99	5.00

11. EUT and Test Setup Photo

11.1 EUT Photo

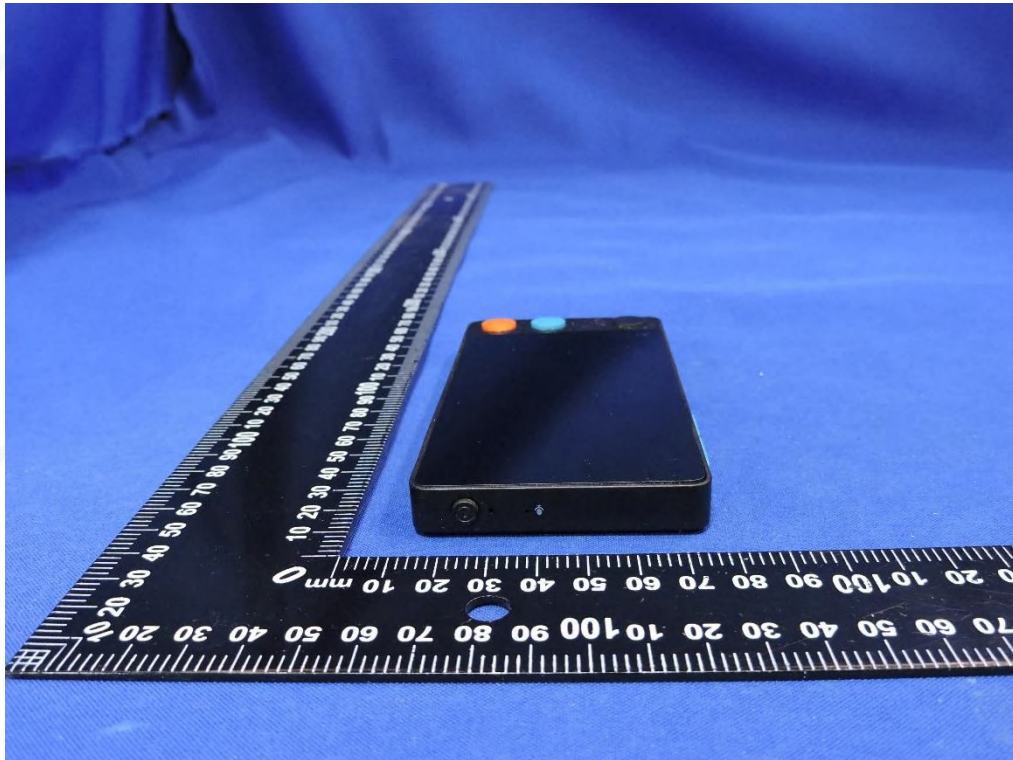
Front side



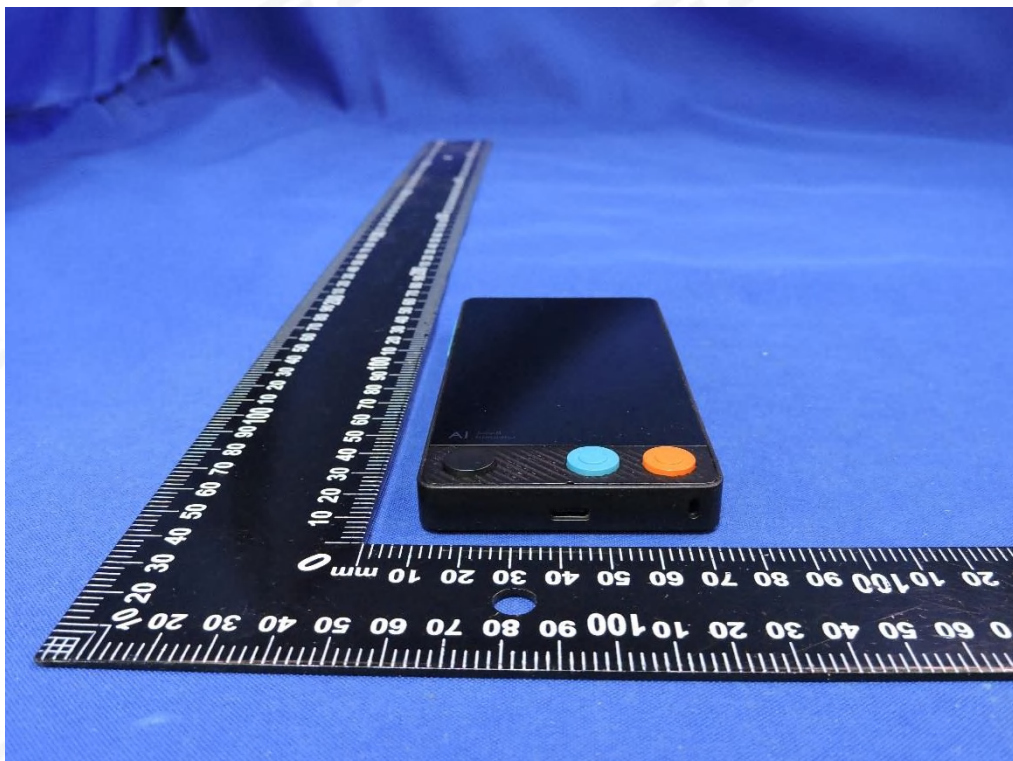
Back side



Top side

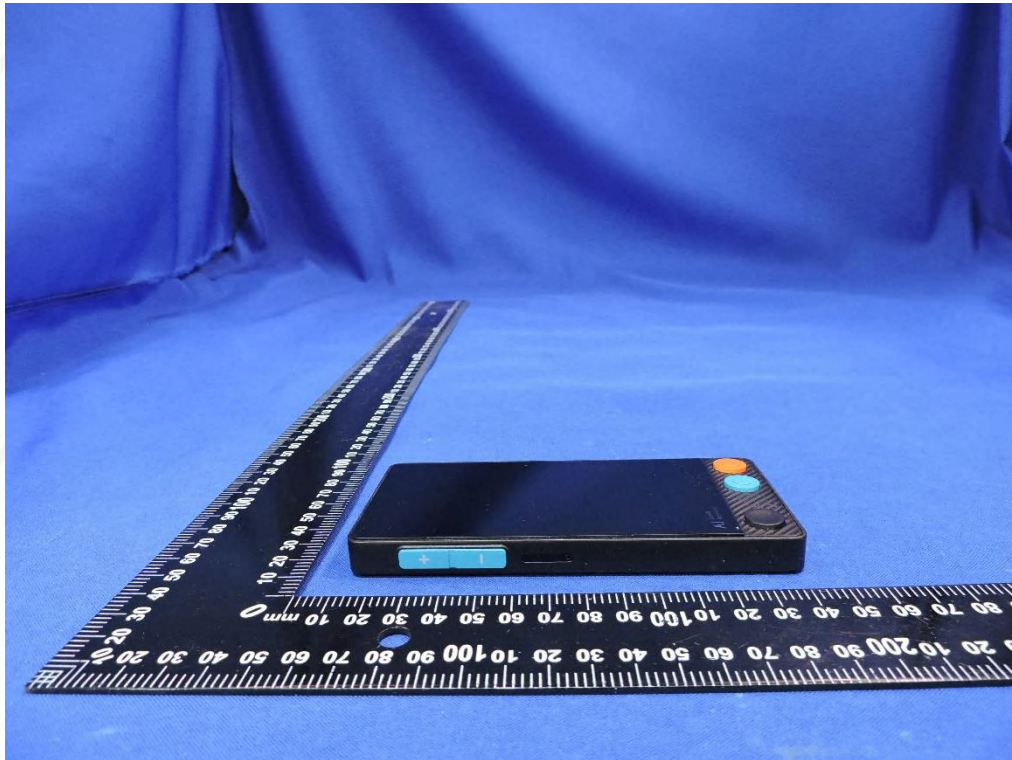


Bottom side

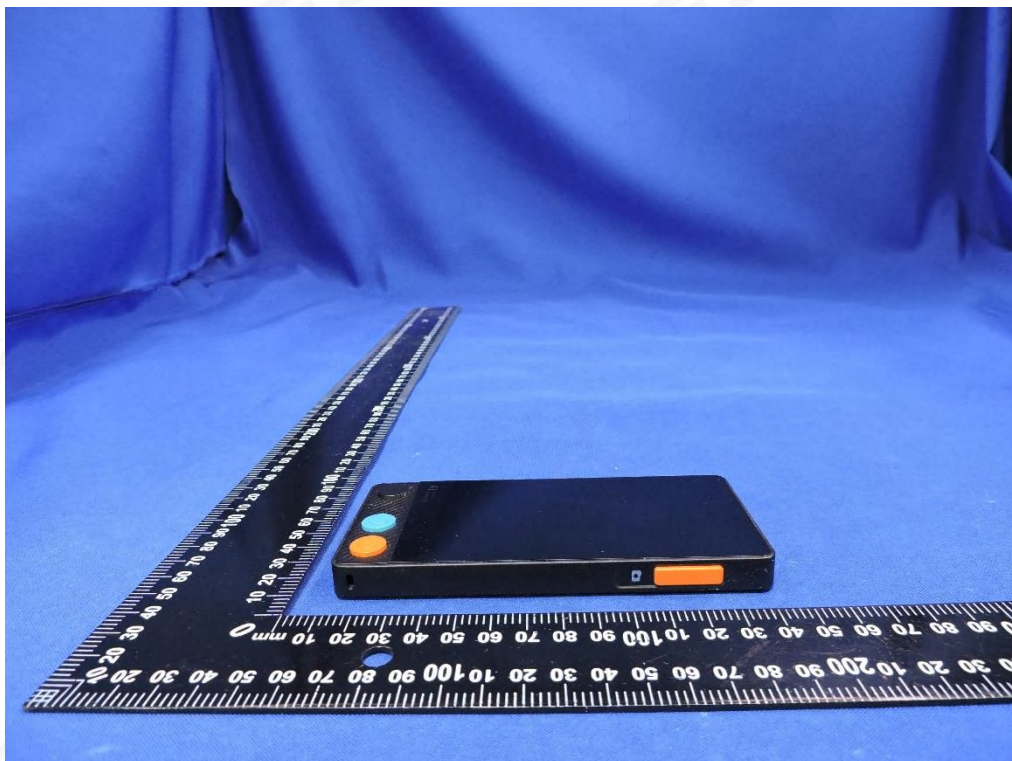




Left side



Right side

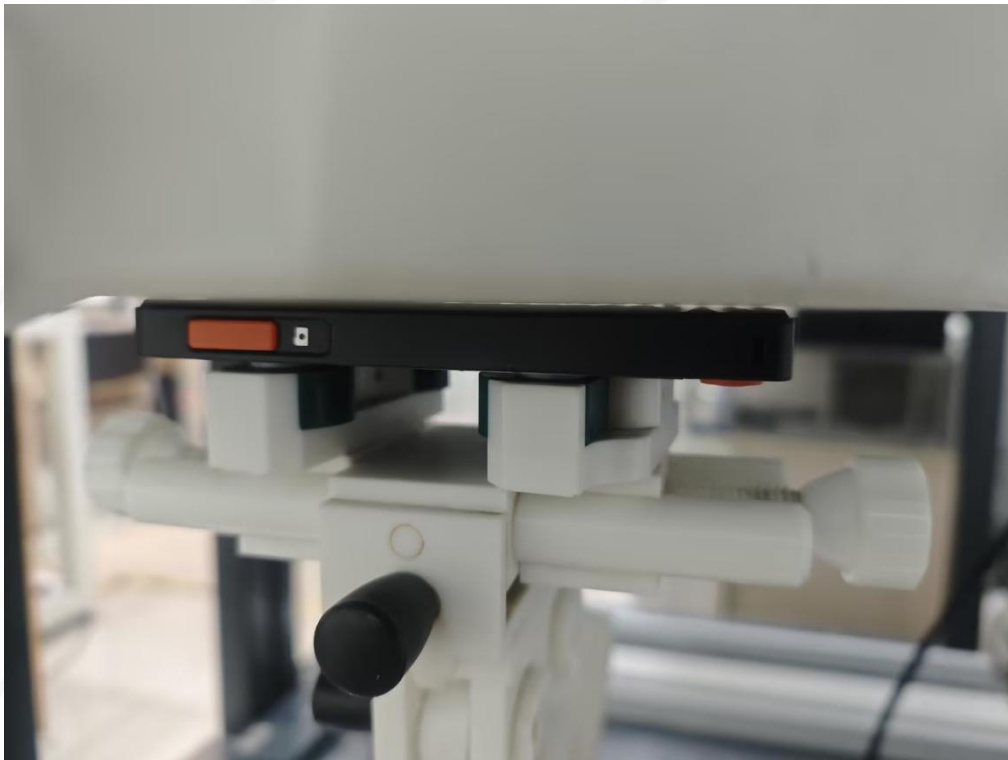


11.2 Setup Photo

Front side(separation distance is 0mm)



Back Side (separation distance is 0mm)



Left side(separation distance is 0mm)



Right Side (separation distance is 0mm)



Top side(separation distance is 0mm)

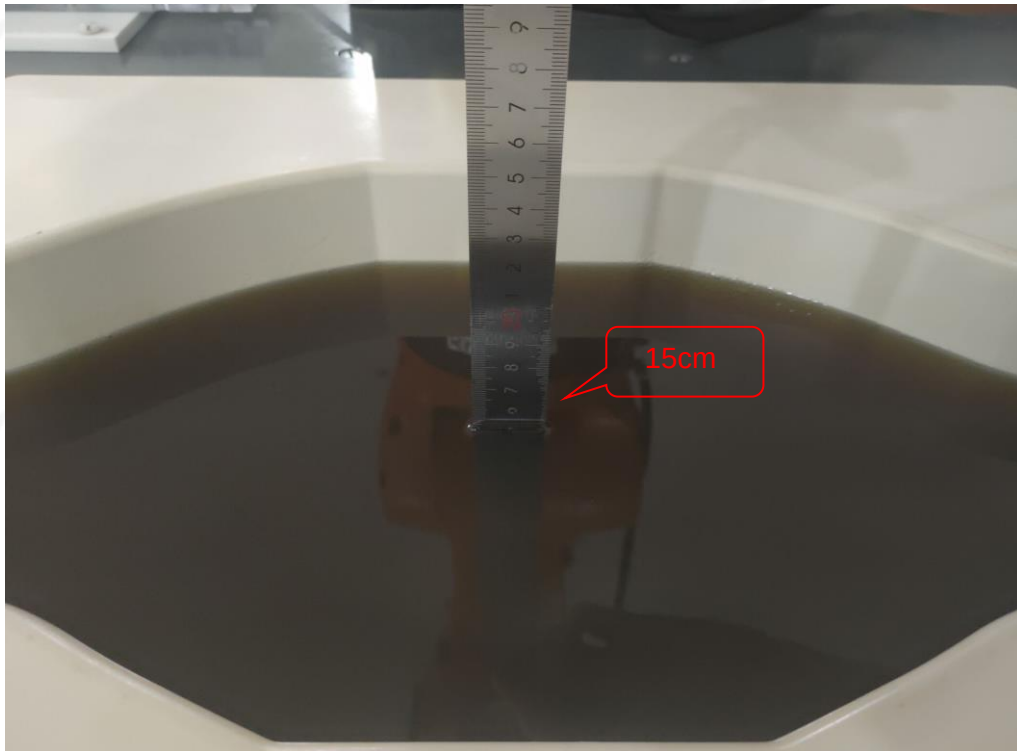


Bottom Side (separation distance is 0mm)





Liquid depth (15 cm)





12. SAR Result Summary

12.1 Body SAR

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Result 1g (W/Kg)	Power Drift(%)	Max. Turn-up Power(dBm)	Meas. Output Power(dBm)	Scaling Factor	Scaled SAR (W/Kg)	Meas.No.
2.4GHz WLAN	N/A	802.11b	N/A	N/A	Front Side	2462	0.316	-0.53	13.00	12.53	1.114	0.352	/
					Back Side	2462	0.458	-0.86	13.00	12.53	1.114	0.510	1
					Left Side	2462	0.125	-0.08	13.00	12.53	1.114	0.139	/
					Right Side	2462	0.113	3.14	13.00	12.53	1.114	0.126	/
					Top Side	2462	0.055	-1.07	13.00	12.53	1.114	0.061	/
					Bottom Side	2462	0.286	-0.60	13.00	12.53	1.114	0.319	/
BLE	N/A	GFSK	N/A	N/A	Front Side	2480	0.061	-3.77	7.00	6.99	1.002	0.061	/
					Back Side	2480	0.084	2.35	7.00	6.99	1.002	0.084	2
					Left Side	2480	0.035	-1.46	7.00	6.99	1.002	0.035	/
					Right Side	2480	0.032	1.30	7.00	6.99	1.002	0.032	/
					Top Side	2480	0.010	3.65	7.00	6.99	1.002	0.010	/
					Bottom Side	2480	0.066	-1.58	7.00	6.99	1.002	0.066	/
5.8GHz WLAN	N/A	802.11b	N/A	N/A	Front Side	5745	0.214	1.94	14.00	13.86	1.033	0.221	/
					Back Side	5745	0.323	1.48	14.00	13.86	1.033	0.334	3
					Left Side	5745	0.118	1.35	14.00	13.86	1.033	0.122	/
					Right Side	5745	0.125	-1.16	14.00	13.86	1.033	0.129	/
					Top Side	5745	0.052	1.64	14.00	13.86	1.033	0.054	/
					Bottom Side	5745	0.256	1.12	14.00	13.86	1.033	0.264	/
LTE Band 5	10M	QPSK	1	0	Front side	844	0.384	0.78	23.5	23.2	1.072	0.411	/
			25	0	Front side	836.5	0.336	3.64	22.5	22.18	1.076	0.362	/
			1	0	Back Side	844	0.647	-1.58	23.5	23.2	1.072	0.693	4
			25	0	Back Side	836.5	0.616	2.37	22.5	22.18	1.076	0.663	/
			1	0	Left Side	844	0.178	-1.20	23.5	23.2	1.072	0.191	/
			25	0	Left Side	836.5	0.156	-1.32	22.5	22.18	1.076	0.168	/
			1	0	Right Side	844	0.184	3.43	23.5	23.2	1.072	0.197	/
			25	0	Right Side	836.5	0.160	3.60	22.5	22.18	1.076	0.172	/
			1	0	Top Side	844	0.056	3.55	23.5	23.2	1.072	0.060	/
			25	0	Top Side	836.5	0.038	-2.93	22.5	22.18	1.076	0.041	/
			1	0	Bottom Side	844	0.345	3.55	23.5	23.2	1.072	0.370	/
			25	0	Bottom Side	836.5	0.318	-2.93	22.5	22.18	1.076	0.342	/
			1	0	Front side	2560	0.455	0.25	24	23.84	1.038	0.472	/
			50	0	Front side	2560	0.419	0.51	23	22.7	1.072	0.449	/
LTE Band 7	10M	QPSK	1	0	Back Side	2510	0.766	-2.14	24	23.84	1.038	0.795	5
			1	0	Back Side	2535	0.638	-1.85	24	23.31	1.172	0.748	/
			1	0	Back Side	2560	0.612	2.51	24	23.03	1.250	0.765	/
			50	0	Back Side	2535	0.740	2.63	23	22.7	1.072	0.793	/
			1	0	Left Side	2560	0.231	-2.46	24	23.84	1.038	0.240	/
			50	0	Left Side	2560	0.208	2.93	23	22.7	1.072	0.223	/
			1	0	Right Side	2560	0.264	-2.84	24	23.84	1.038	0.274	/
			50	0	Right Side	2560	0.245	-3.22	23	22.7	1.072	0.263	/
			1	0	Top Side	2510	0.084	-2.85	24	23.84	1.038	0.087	/
			50	0	Top Side	2535	0.071	1.45	23	22.7	1.072	0.076	/
			1	0	Bottom Side	2510	0.361	-2.85	24	23.84	1.038	0.375	/
			50	0	Bottom Side	2535	0.332	1.45	23	22.7	1.072	0.356	/
			1	0	Front side	2680	0.367	-3.34	24	23.72	1.067	0.391	/
			50	0	Front side	2680	0.345	-0.54	23	22.79	1.050	0.362	/
LTE Band 38	20M	QPSK	1	0	Back Side	2680	0.631	-0.75	24	23.72	1.067	0.673	6
			50	0	Back Side	2680	0.605	3.59	23	22.79	1.050	0.635	/
			1	0	Left Side	2680	0.162	-3.49	24	23.72	1.067	0.173	/
			50	0	Left Side	2680	0.155	-3.80	23	22.79	1.050	0.163	/
			1	0	Right Side	2680	0.192	-0.20	24	23.72	1.067	0.205	/
			50	0	Right Side	2680	0.181	3.18	23	22.79	1.050	0.190	/
			1	0	Top Side	2680	0.052	-2.62	24	23.72	1.067	0.055	/
			50	0	Top Side	2680	0.045	-2.83	23	22.79	1.050	0.047	/
			1	0	Bottom Side	2680	0.264	-2.62	24	23.72	1.067	0.282	/
			50	0	Bottom Side	2680	0.241	-2.83	23	22.79	1.050	0.253	/

Note:

- The test separation of all above table is 0mm.
- Per KDB 447498 D04, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - Scaled SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
- When the user enables the personal Wireless router functions for the handsets, actual operations include simultaneous transmission of both the Wi-Fi transmitting frequency and thus cannot be evaluated for SAR under actual use conditions. The "Portable Hotspot" feature on the handset was NOT activated, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal.



12.2 Simultaneous Multi-band Transmission Evaluation

Application Simultaneous Transmission information:

Position	Simultaneous State
Body	1. LTE + 2.4/5GHz WLAN
	2. LTE + BLE

NOTE:

1. Bluetooth and WLAN can't simultaneous transmission at the same time.
2. For simultaneous transmission at head and body exposure position, 2 transmitters simultaneous transmission was the worst state.
3. If the test separation distance is <0mm, 0mm is used for excluded SAR calculation.

Simultaneous Mode	Position	Mode	Max. 1-g SAR	1-g Sum SAR
			(W/kg)	(W/kg)
LTE + 2.4G WLAN	Body	LTE	0.795	1.305
		2.4G WLAN	0.510	
LTE + Bluetooth	Body	LTE	0.795	0.879
		Bluetooth	0.084	
LTE + 5G WLAN	Body	LTE	0.795	1.129
		5G WLAN	0.334	

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 SPLSR.



13. Equipment List

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
SAR Test System	SATIMO	N/A	V5.3.15.11	N/A	N/A
835MHz Dipole	MVG	SID835	SN 30/14 DIP0G835-332	2023.07.04	2026.07.03
2450MHzDipole	MVG	SID2450	SN 30/14 DIP2G450-335	2023.07.04	2026.07.03
2600MHz Dipole	MVG	SID2600	SN 30/14 DIP2G600-336	2023.07.04	2026.07.03
Waveguide	MVG	SWG5500	SN 13/14 WGA32	2023.07.04	2026.07.03
E-Field Probe	MVG	SSE2	SN 08/21 EPGO352	2025.09.15	2026.09.14
Dielectric Probe Kit	MVG	SCLMP	SN 32/14 OCPG67	2025.09.15	2026.09.14
Antenna	MVG	ANTA3	SN 07/13 ZNTA52	N/A	N/A
Phantom1	MVG	SAM	SN 32/14 SAM115	N/A	N/A
Phantom3	MVG	SAM	SN 21/21 ELLI48	N/A	N/A
Phone holder	MVG	N/A	SN 32/14 MSH97	N/A	N/A
Laptop holder	MVG	N/A	SN 32/14 LSH29	N/A	N/A
Attenuator	Agilent	HXT-10-8-SMA	240327017	2026.02.04	2027.02.03
Directional coupler	Xi'an Xingbo	XBOH-OA08-20dB	211123-4-3	2026.02.03	2027.02.02
Network Analyzer	Agilent	E5071C	MY46520378	2025-09-26	2026-09-24
Multi Meter	Keithley	Multi Meter 2000	4050073	2025-09-22	2026-09-21
Signal Generator	Agilent	N5182A	MY50140530	2025-09-26	2026-09-25
Wireless Communication Test Set	Agilent	8960-E5515C	MY48360751	2026.02.04	2027.02.03
Wireless Communication Test Set	R&S	CMW500	156324	2025-09-25	2026-09-24
Power Amplifier	DESAY	WCS-DLNA50M8G50G1	CSKJLNA231227A	2025-09-29	2026-09-28
Power Meter	R&S	NRP	100510	2025-09-25	2026-09-24
Power Sensor	R&S	NRP-Z11	101919	2025-09-25	2026-09-24
Power Sensor	Keysight	U2021XA	MY56280002	2025-09-25	2026-09-24
Temperature hygrometer	TOPRIE	TP502V4-P	6700000124198	2025.10.09	2026.10.08
Thermograph	Elitech	RC-4	S/N EF7176501537	2025.10.17	2026.10.16



Appendix A. System Validation Plots

System Performance Check Data (835Hz)

Type: Phone measurement (Complete)

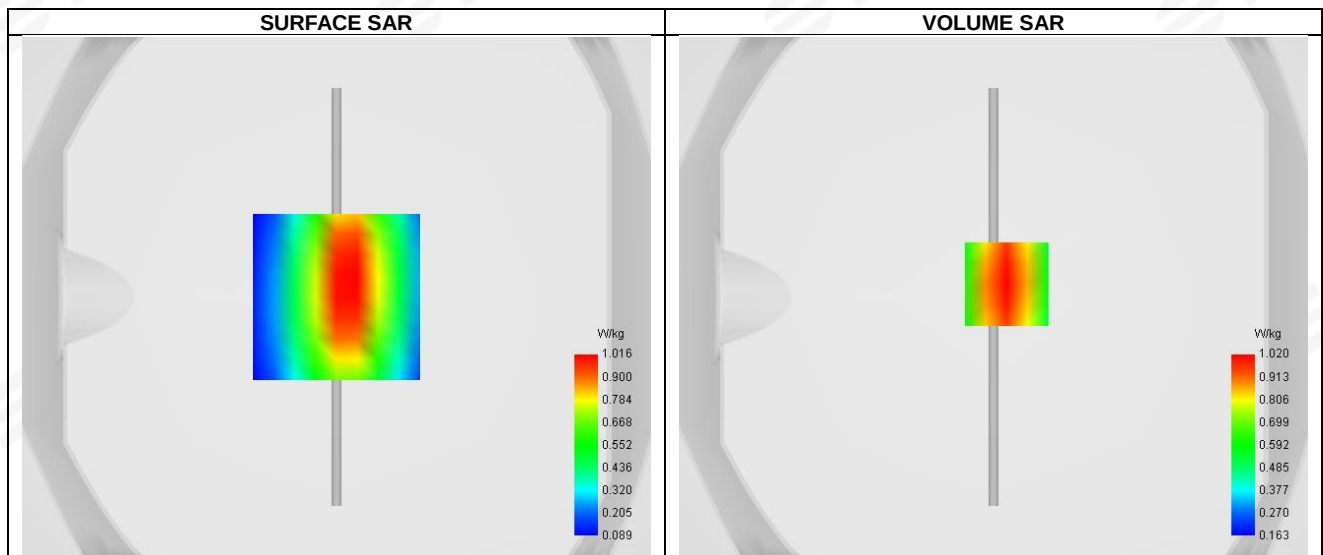
Area scan resolution: dx=8mm, dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=0mm

Date of measurement: 2026-04-09

Experimental conditions.

Device Position	Validation plane
Band	835 MHz
Channels	-
Signal	CW
Frequency (MHz)	835
Relative permittivity	41.52
Conductivity (S/m)	0.89
Probe	SN 08/21 EPGO352
ConvF	1.49
Crest factor:	1:1



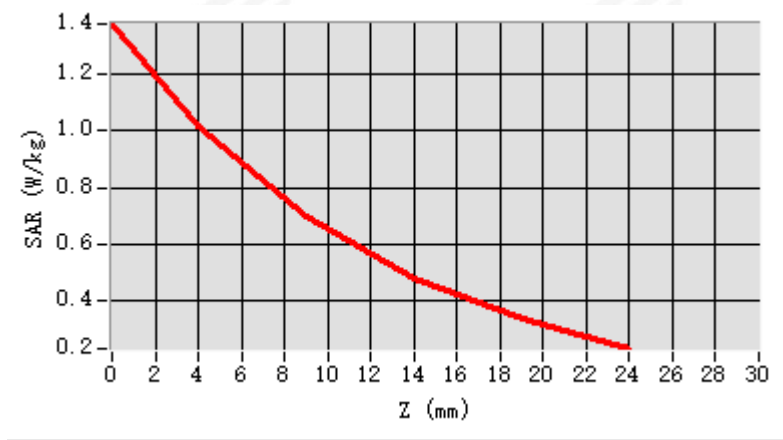
Maximum location: X=5.00, Y=5.00 ; SAR Peak: 1.38 W/kg

D. SAR 1g & 10g

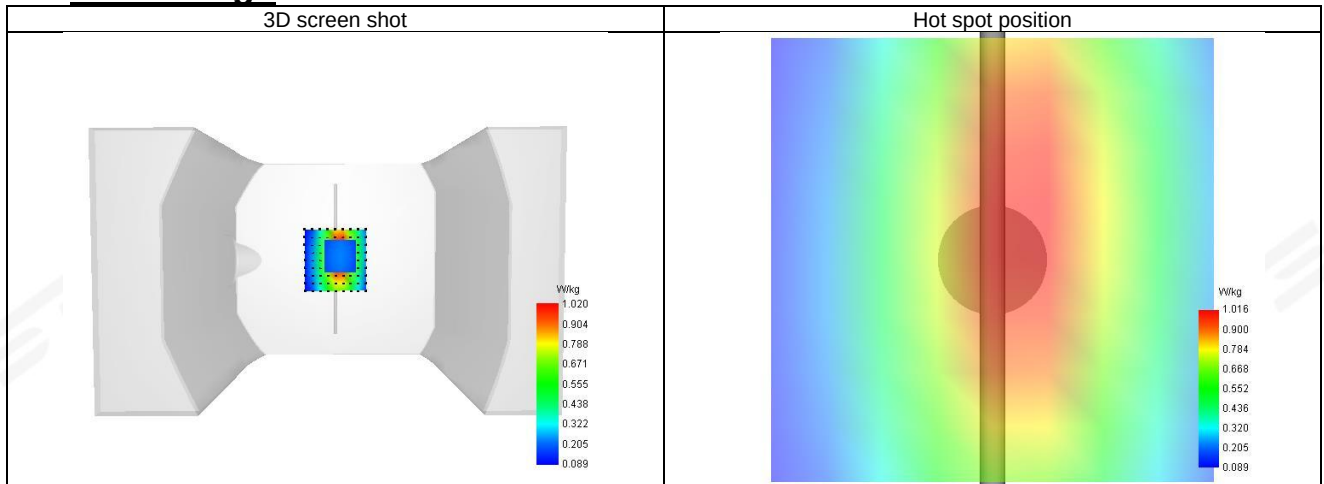
SAR 10g (W/Kg)	0.629
SAR 1g (W/Kg)	0.923
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	54.225451

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.379	1.020	0.697	0.481	0.337



F. 3D Image



**System Performance Check Data (2450MHz)**

Type: Phone measurement (Complete)

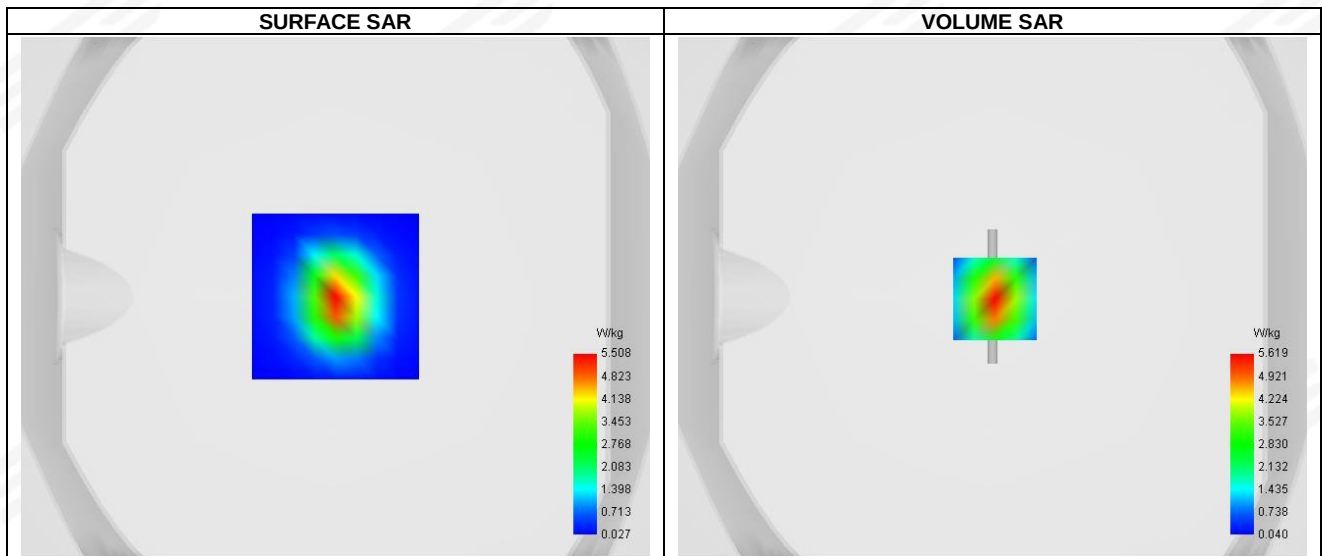
Area scan resolution: dx=8mm, dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=0mm

Date of measurement: 2026-04-09

Experimental conditions.

Device Position	Validation plane
Band	2450 MHz
Channels	-
Signal	CW
Frequency (MHz)	2450
Relative permittivity	38.76
Conductivity (S/m)	1.82
Probe	SN 08/21 EPGO352
ConvF	1.82
Crest factor:	1:1



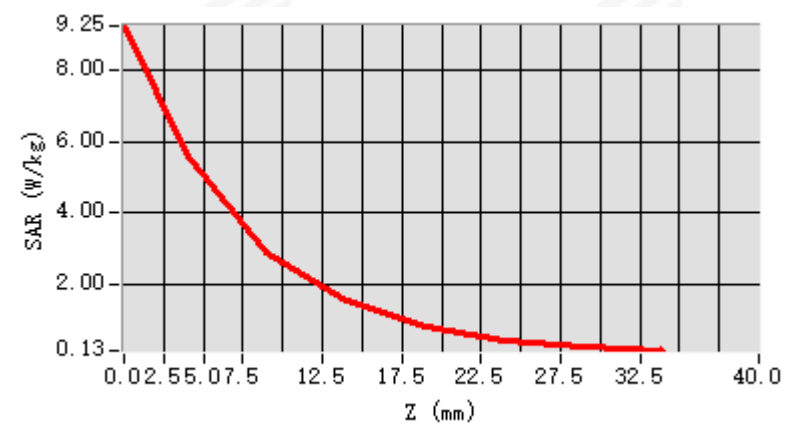
Maximum location: X=1.00, Y=-1.00 ; SAR Peak: 9.15 W/kg

D. SAR 1g & 10g

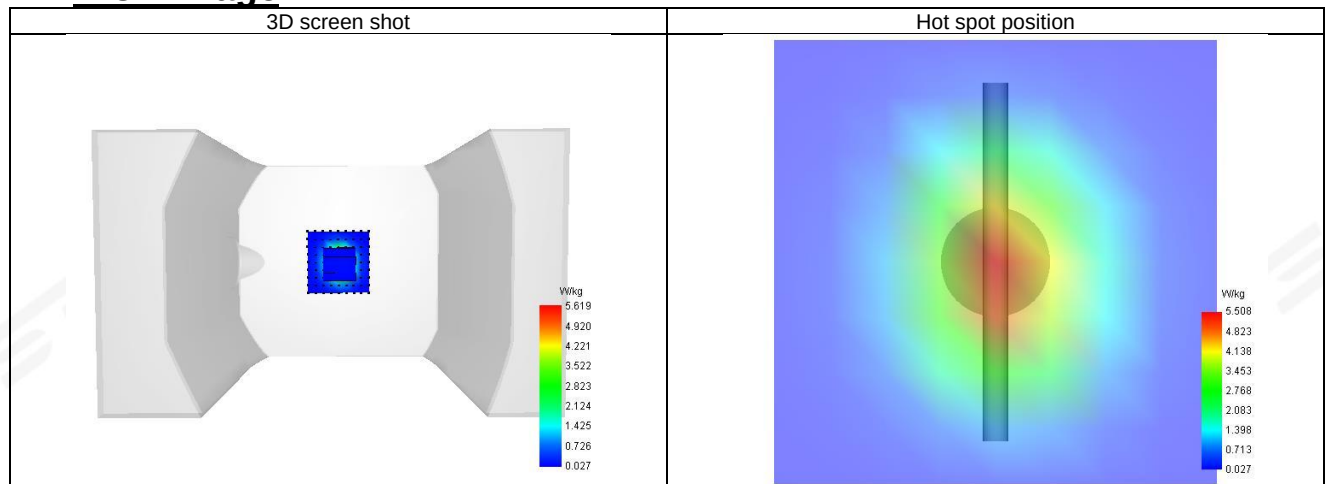
SAR 10g (W/Kg)	2.423
SAR 1g (W/Kg)	5.423
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	51.425952

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	9.252	5.619	2.890	1.554	0.821	0.433	0.229



F. 3D Image



**System Performance Check Data (2600MHz)**

Type: Phone measurement (Complete)

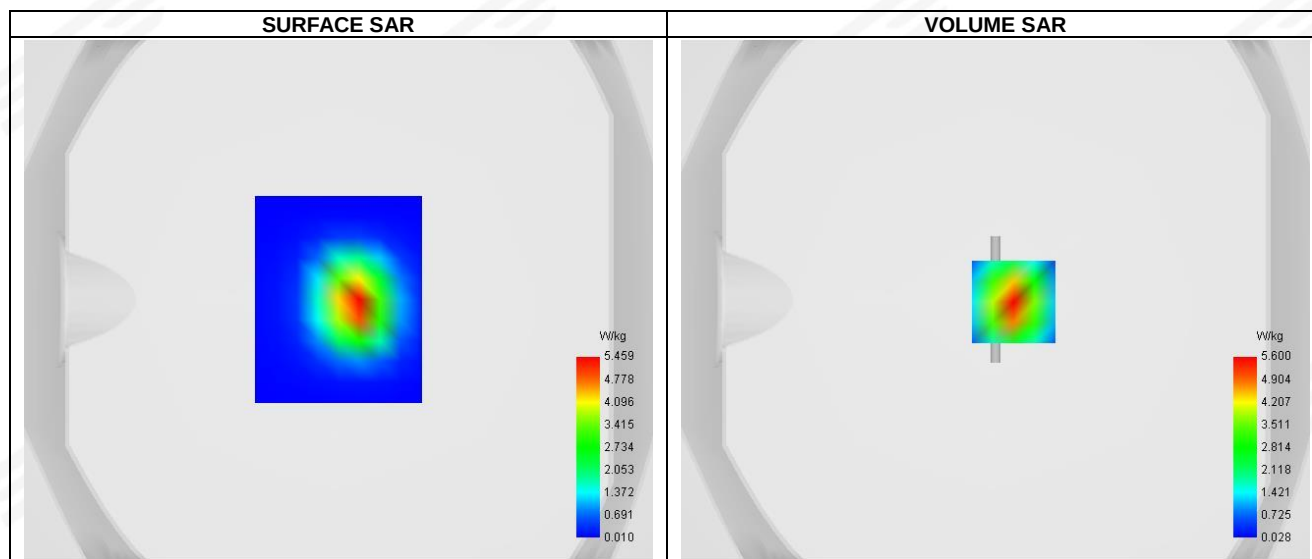
Area scan resolution: dx=8mm, dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=0mm

Date of measurement: 2026-04-10

Experimental conditions.

Device Position	Validation plane
Band	2600 MHz
Channels	-
Signal	CW
Frequency (MHz)	2600
Relative permittivity	39.28
Conductivity (S/m)	1.94
Probe	SN 08/21 EPGO352
ConvF	1.70
Crest factor:	1:1



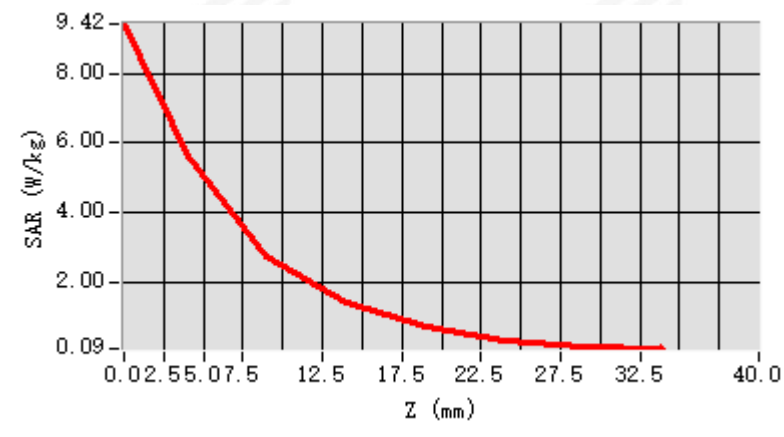
Maximum location: X=7.00, Y=-1.00 ; SAR Peak: 9.33 W/kg

D. SAR 1g & 10g

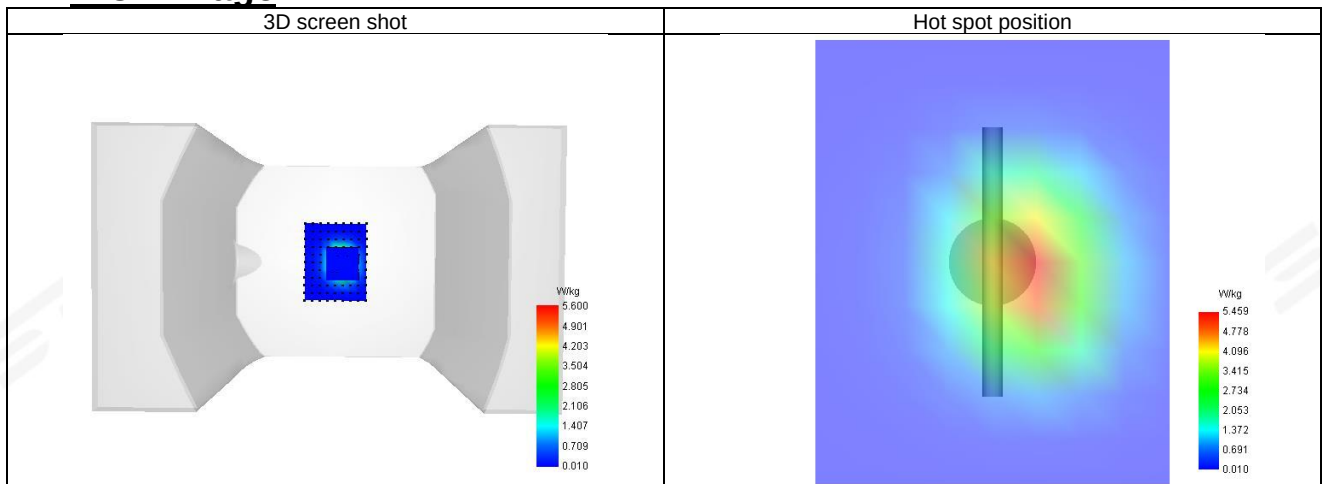
SAR 10g (W/Kg)	2.445
SAR 1g (W/Kg)	5.578
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	49.429969

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	9.415	5.600	2.768	1.399	0.701	0.351	0.176



F. 3D Image



**System Performance Check Data (5800MHz)**

Type: Dipole measurement (Complete)

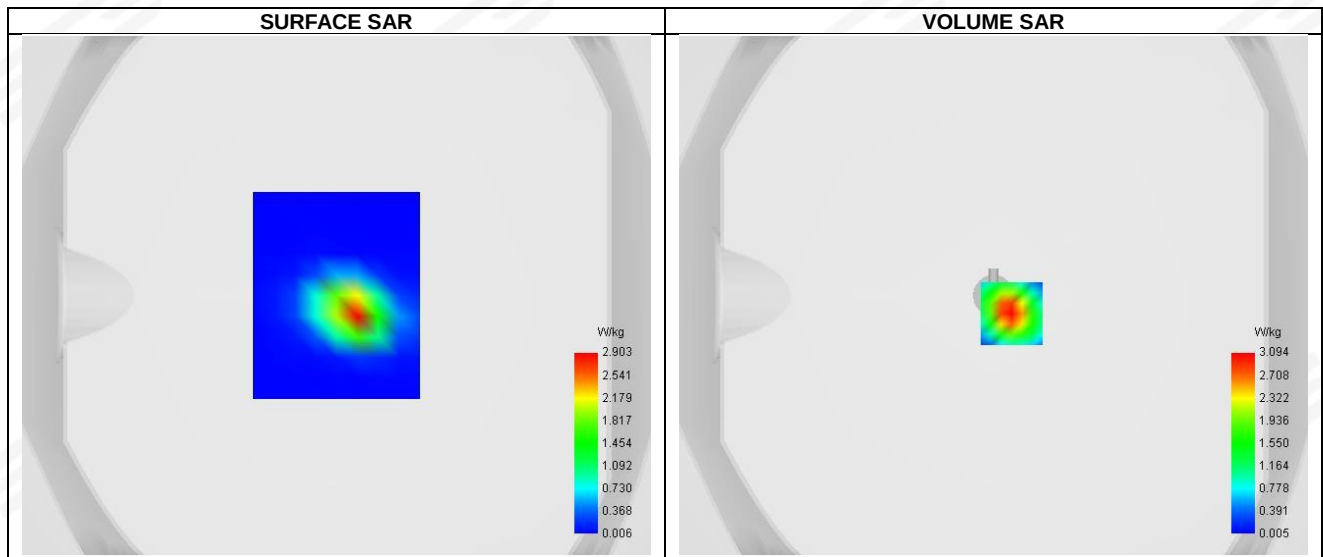
Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm

Date of measurement: 2026-04-10

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	5800MHz
Channels	Middle
Signal	CW
Frequency (MHz)	5800
Relative permittivity	35.48
Conductivity (S/m)	5.28
Probe	SN 08/21 EPGO352
ConvF	1.32
Crest factor:	1:1



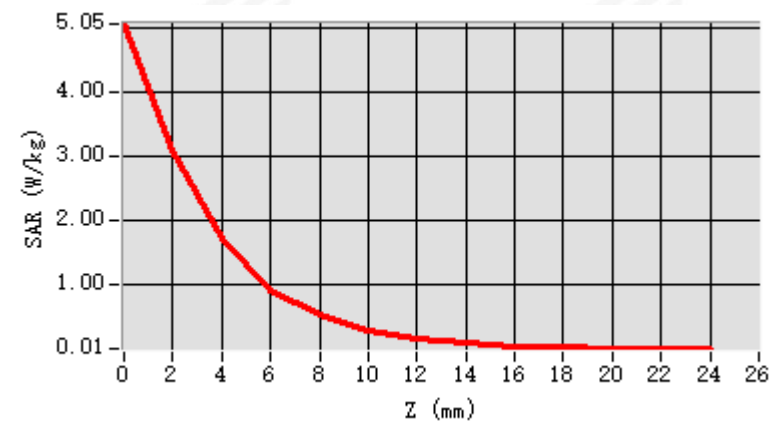
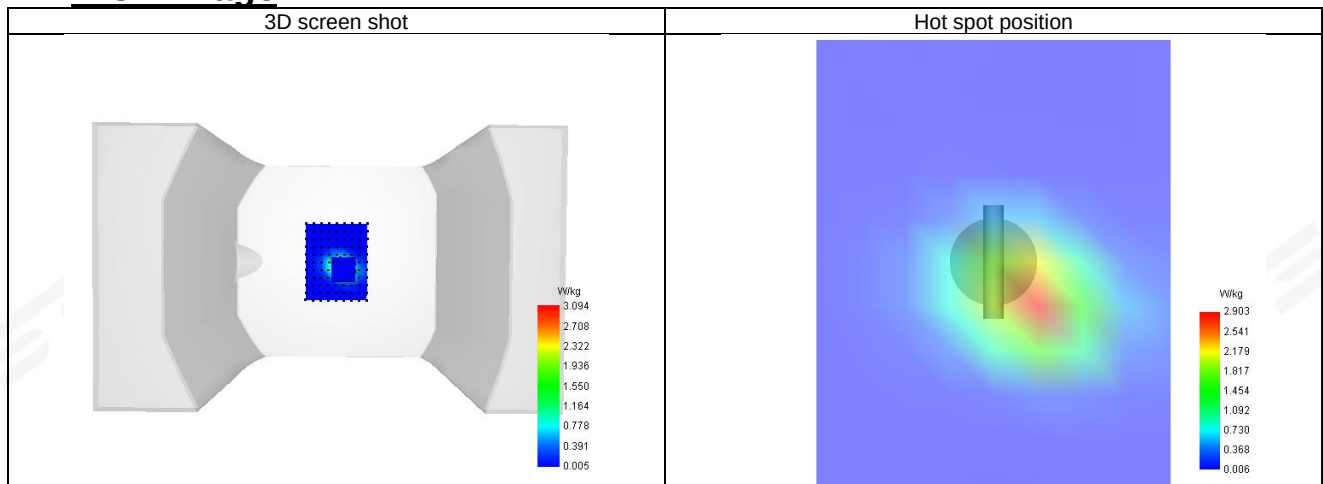
Maximum location: X=7.00, Y=-7.00 ; SAR Peak: 5.27 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.618
SAR 1g (W/Kg)	1.932
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	55.289803

**E. Z Axis Scan**

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	5.053	3.094	1.711	0.917	0.525	0.291	0.161	0.089	0.050	0.028	0.015	0.008

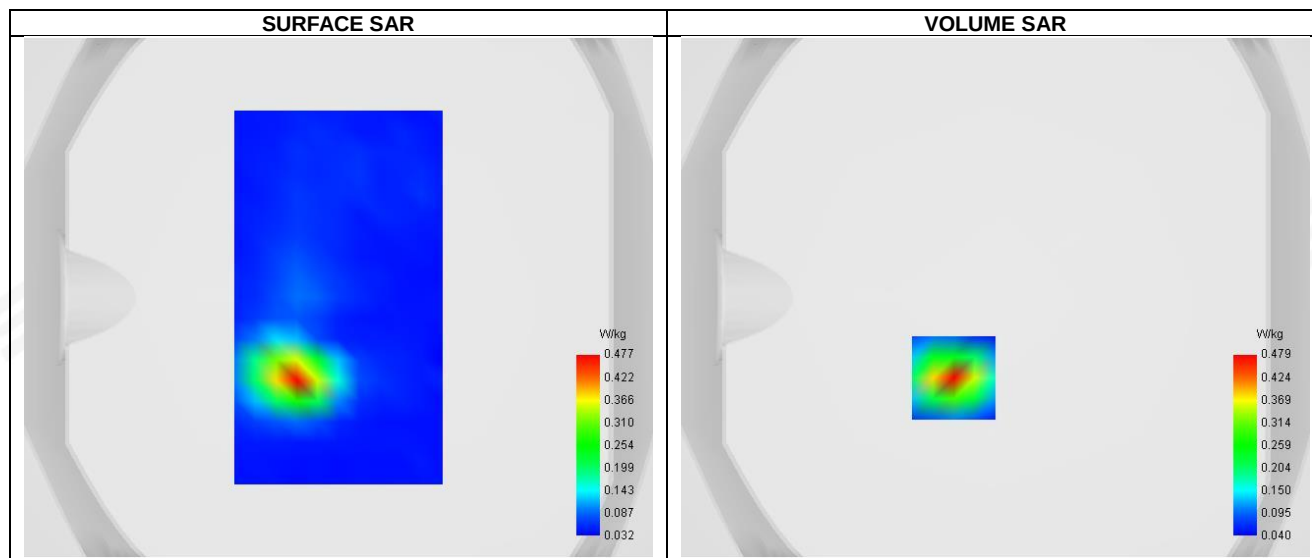
**F. 3D Image**



Appendix B. SAR Test Plots

Plot 1: DUT: JoneR Translator 5.0; EUT Model: PL26

Test Date	2026-04-09
ConvF	1.82
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Body
Device Position	Back Side
Band	2.4GHz WLAN
Signal	802.11b (Crest factor: 1.0)
Frequency (MHz)	2462
Relative permittivity (real part)	38.90
Conductivity (S/m)	1.82



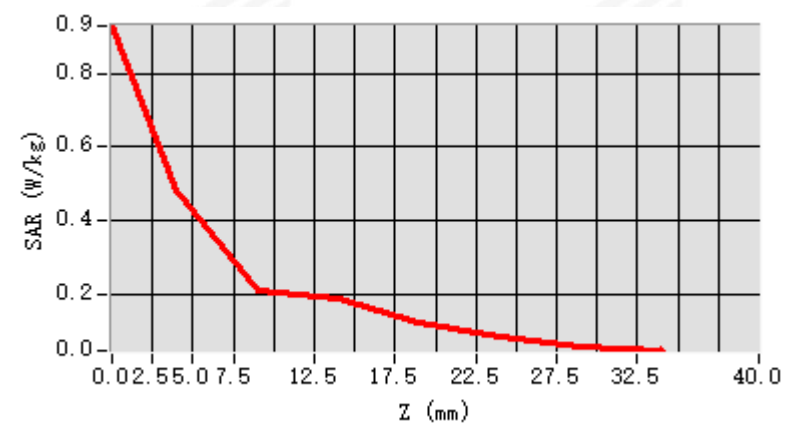
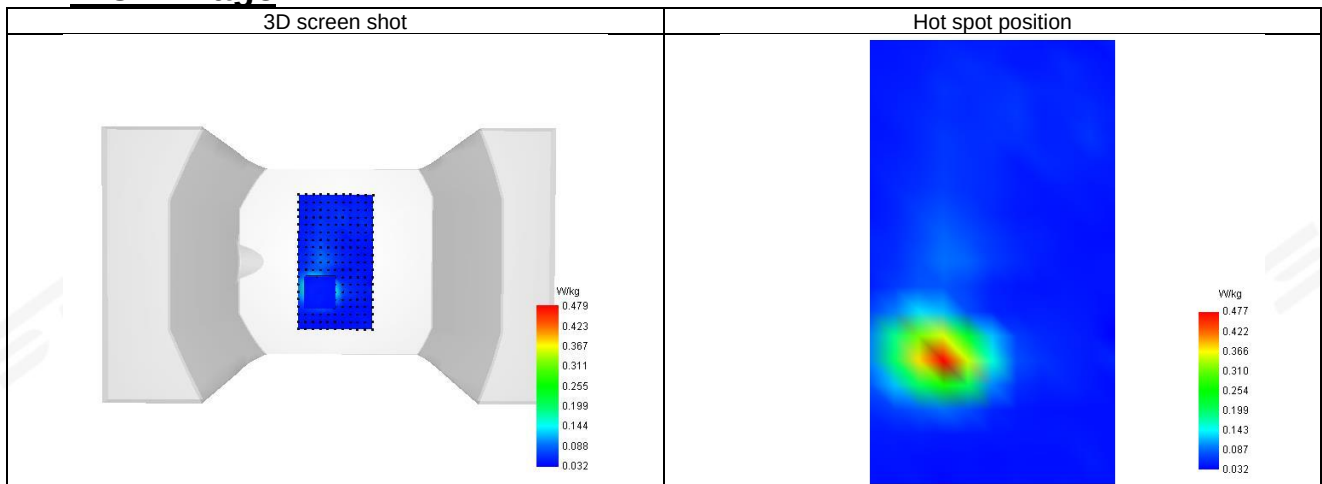
Maximum location: X=-16.00, Y=-31.00 ; SAR Peak: 0.93 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.206
SAR 1g (W/Kg)	0.458
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	43.534897

**E. Z Axis Scan**

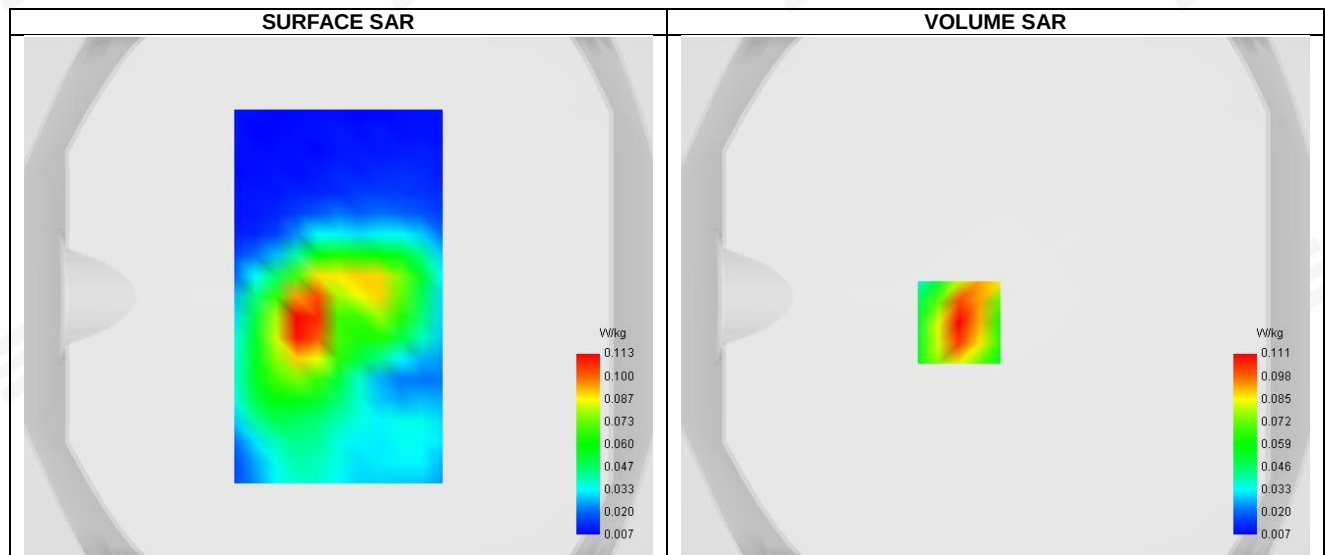
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.929	0.479	0.209	0.186	0.123	0.081	0.053

**F. 3D Image**



Plot 2: DUT: JoneR Translator 5.0; EUT Model: PL26

Test Date	2026-04-09
ConvF	1.82
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Body
Device Position	Back Side
Band	BLE
Signal	GFSK
Frequency (MHz)	2480
Relative permittivity (real part)	39.28
Conductivity (S/m)	1.82



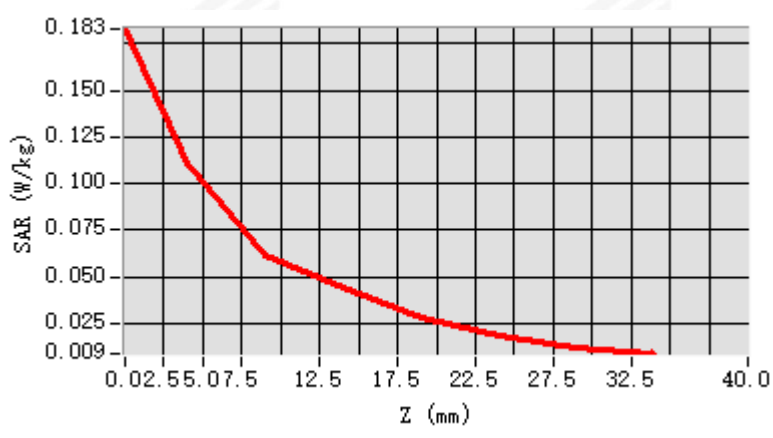
Maximum location: X=-14.00, Y=-10.00 ; SAR Peak: 0.18 W/kg

D. SAR 1g & 10g

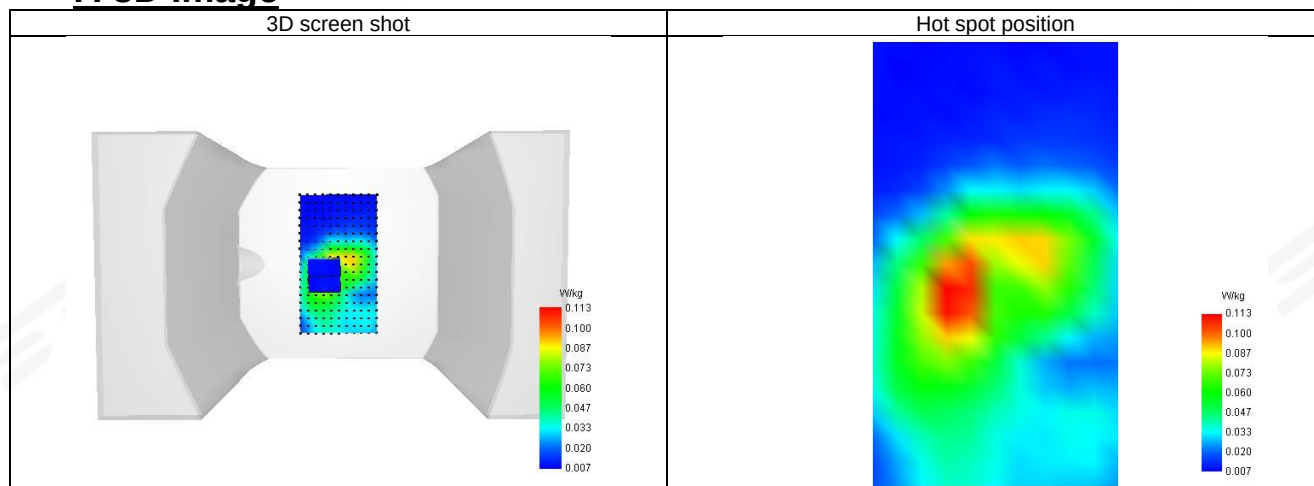
SAR 10g (W/Kg)	0.050
SAR 1g (W/Kg)	0.084
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	54.994053

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.183	0.111	0.061	0.044	0.028	0.018	0.012



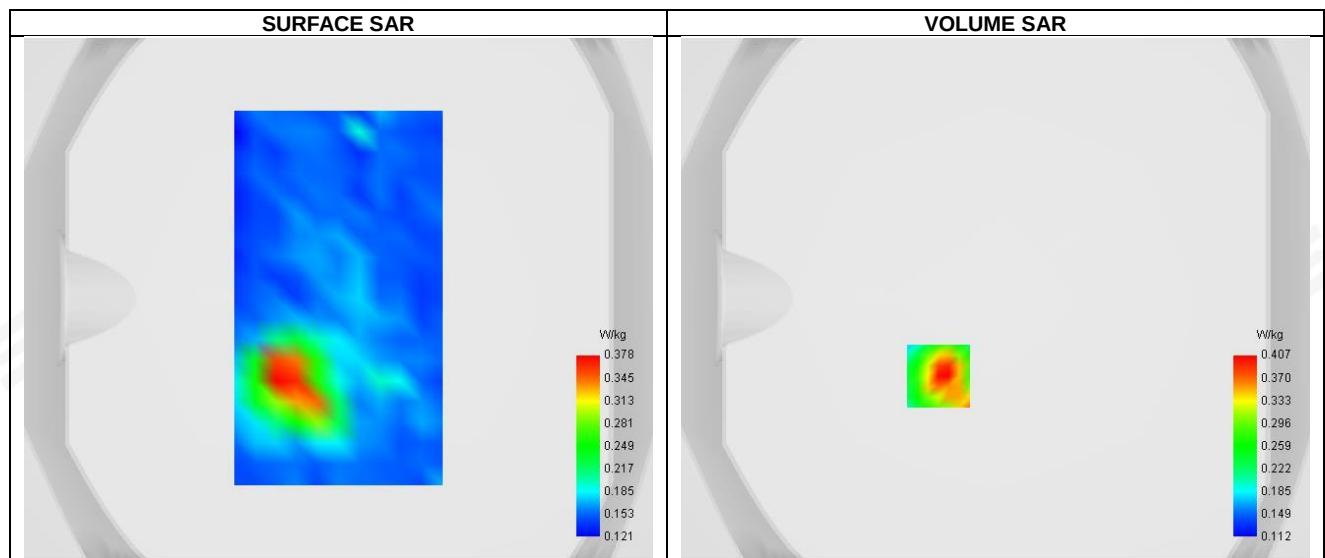
F. 3D Image





Plot 3: DUT: JoneR Translator 5.0; EUT Model: PL26

Test Date	2026-04-10
ConvF	1.32
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Body
Device Position	Back Side
Band	5.8GHz WLAN
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5745
Relative permittivity (real part)	35.41
Conductivity (S/m)	5.24



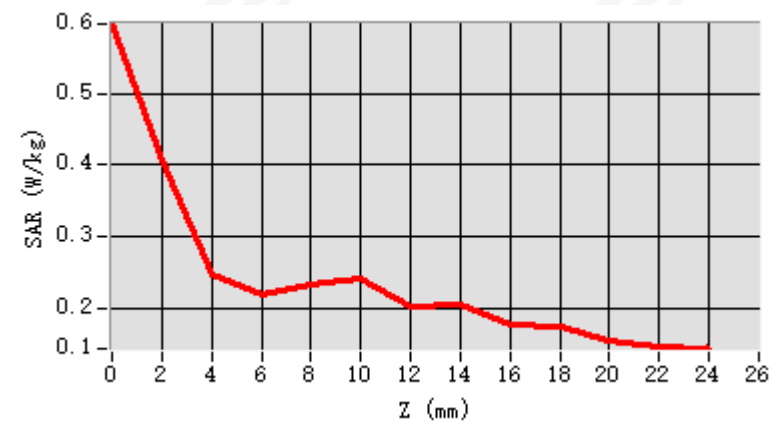
Maximum location: X=-22.00, Y=-30.00 ; SAR Peak: 0.73 W/kg

D. SAR 1g & 10g

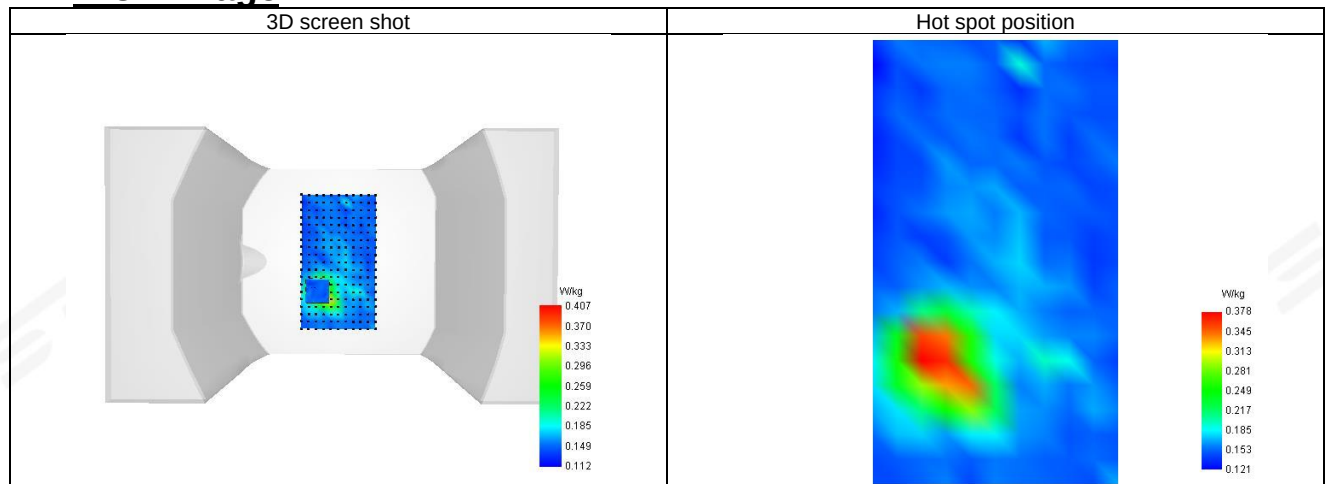
SAR 10g (W/Kg)	0.204
SAR 1g (W/Kg)	0.323
Horizontal validation criteria: minimum distance (mm)	16.970563
Vertical validation criteria: SAR ratio M2/M1 (%)	70.845368

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	0.597	0.407	0.248	0.217	0.232	0.242	0.202	0.205	0.176	0.174	0.153	0.147



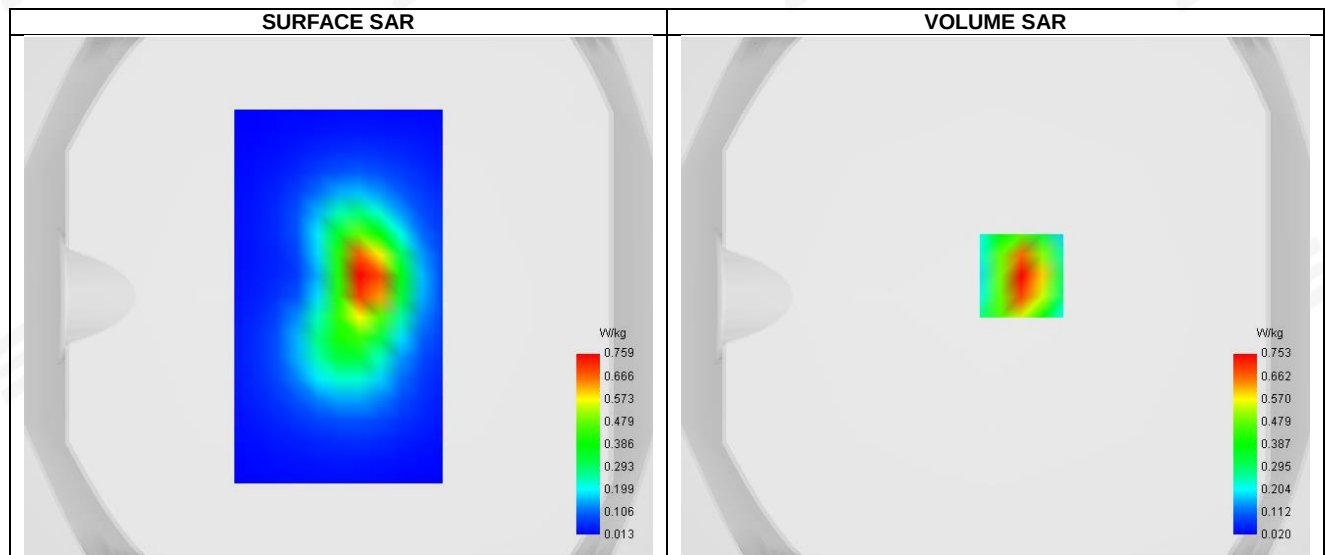
F. 3D Image





Plot 4: DUT: JoneR Translator 5.0; EUT Model: PL26

Test Date	2026-04-09
ConvF	1.49
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Body
Device Position	Back Side
Band	LTE band 5
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	844
Relative permittivity (real part)	42.65
Conductivity (S/m)	0.89



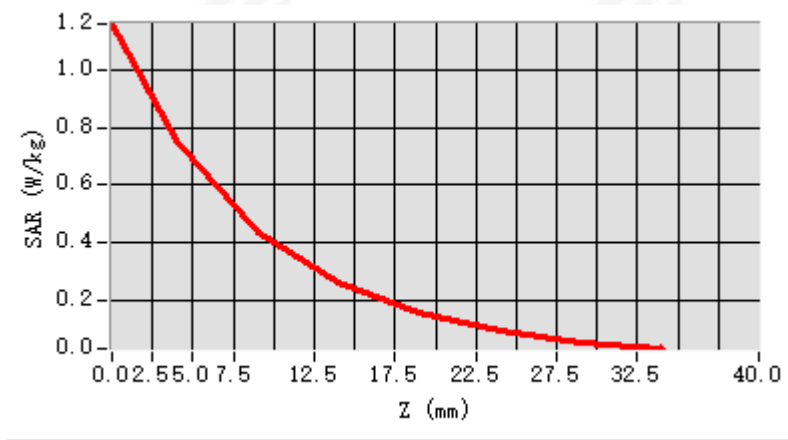
Maximum location: X=10.00, Y=8.00 ; SAR Peak: 1.15 W/kg

D. SAR 1g & 10g

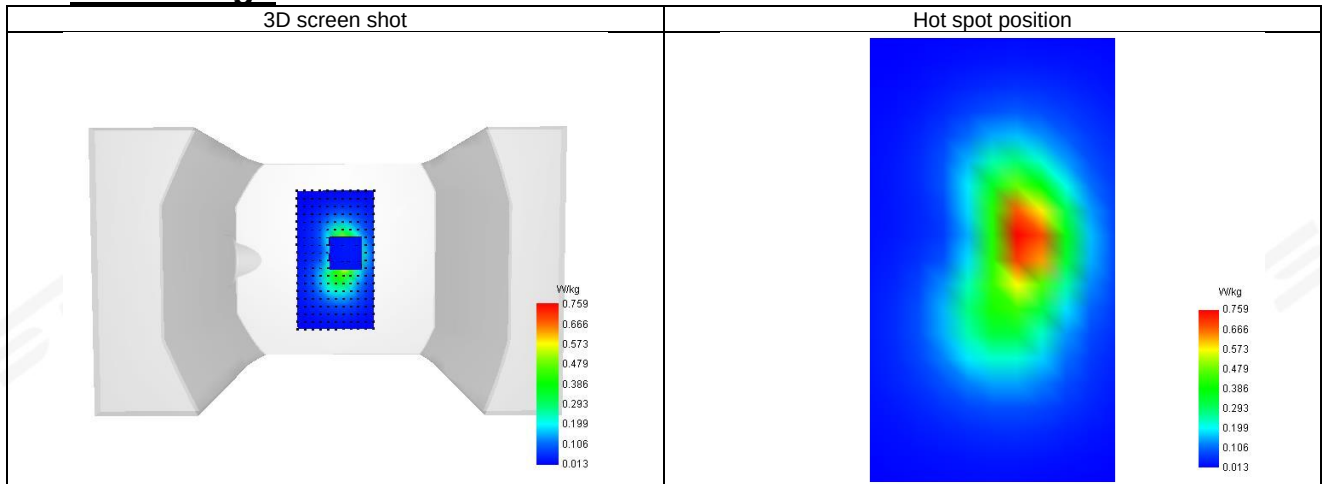
SAR 10g (W/Kg)	0.374
SAR 1g (W/Kg)	0.647
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	57.859156

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.157	0.753	0.436	0.268	0.161	0.096	0.058



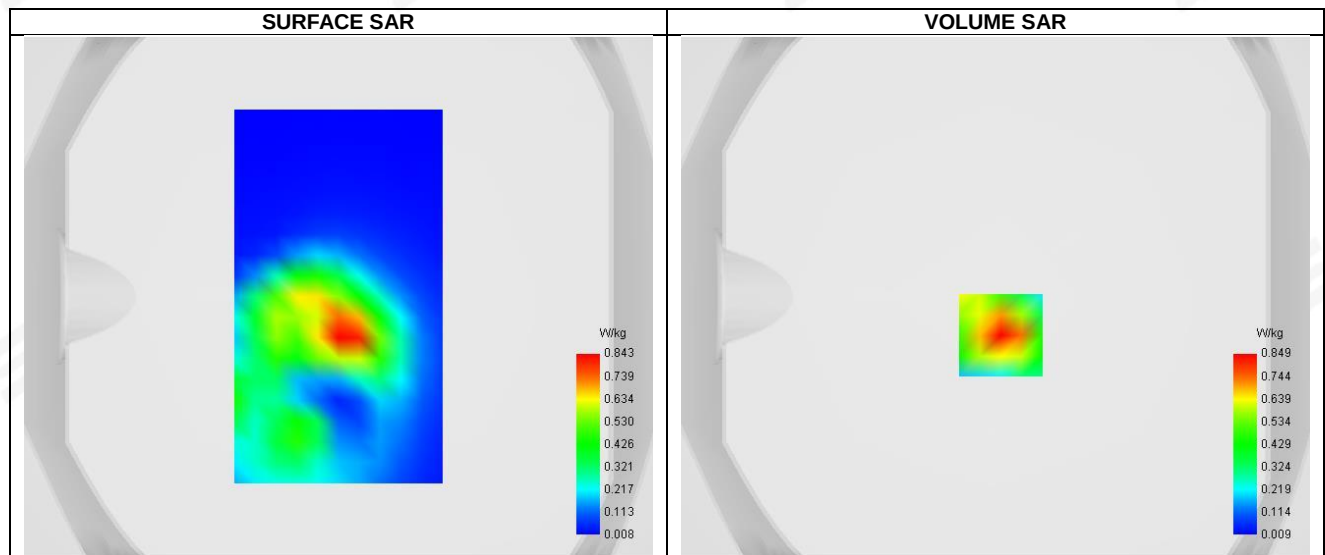
F. 3D Image





Plot 5: DUT: JoneR Translator 5.0; EUT Model: PL26

Test Date	2026-04-10
ConvF	1.70
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Body
Device Position	Back Side
Band	LTE band 7
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2560
Relative permittivity (real part)	39.64
Conductivity (S/m)	1.92



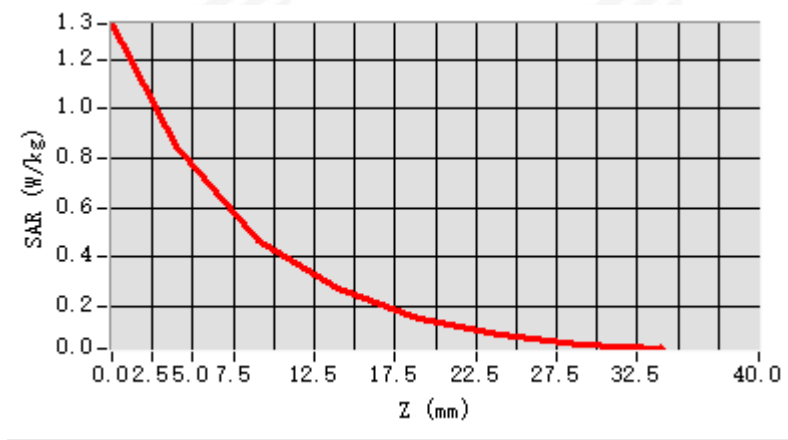
Maximum location: X=2.00, Y=-15.00 ; SAR Peak: 1.33 W/kg

D. SAR 1g & 10g

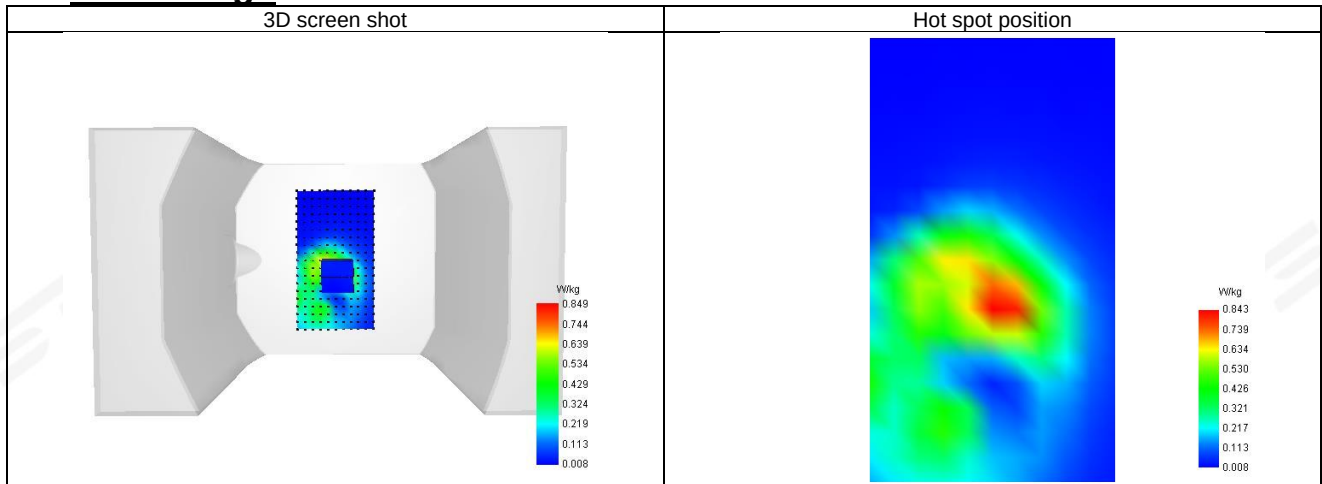
SAR 10g (W/Kg)	0.408
SAR 1g (W/Kg)	0.766
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	55.053124

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.342	0.849	0.468	0.270	0.153	0.087	0.049



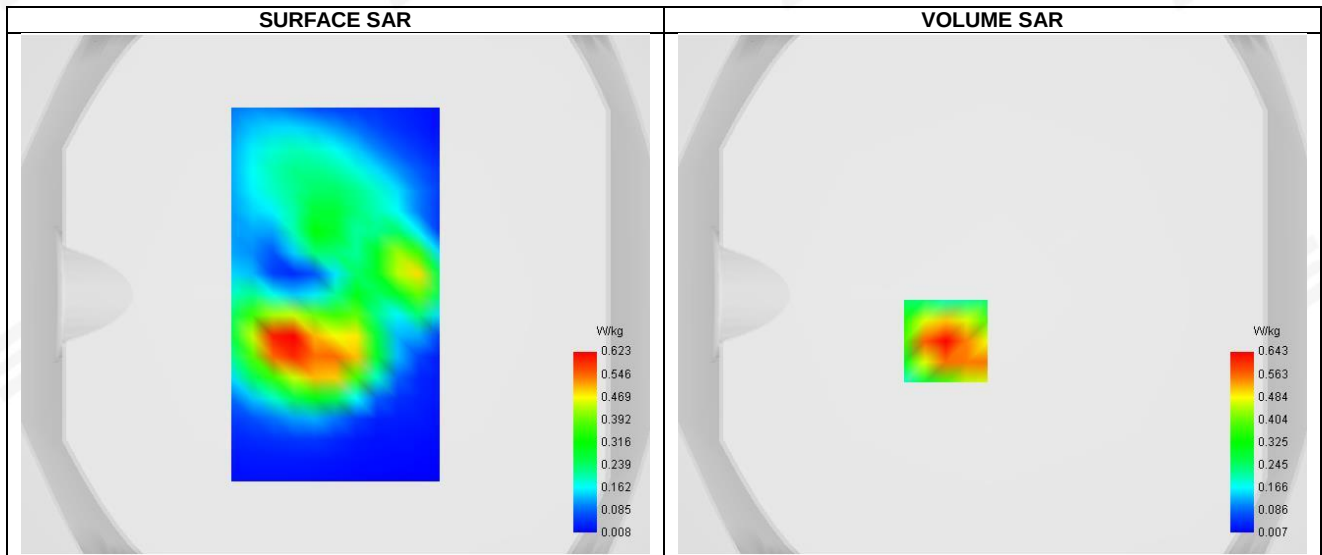
F. 3D Image





Plot 6: DUT: JoneR Translator 5.0; EUT Model: PL26

Test Date	2026-04-10
ConvF	1.70
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Body
Device Position	Back Side
Band	LTE band 38
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2680
Relative permittivity (real part)	39.66
Conductivity (S/m)	2.03



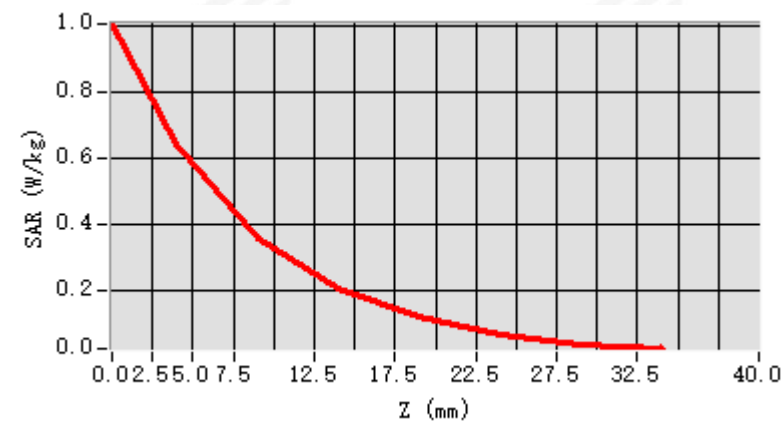
Maximum location: X=-18.00, Y=-18.00 ; SAR Peak: 1.00 W/kg

D. SAR 1g & 10g

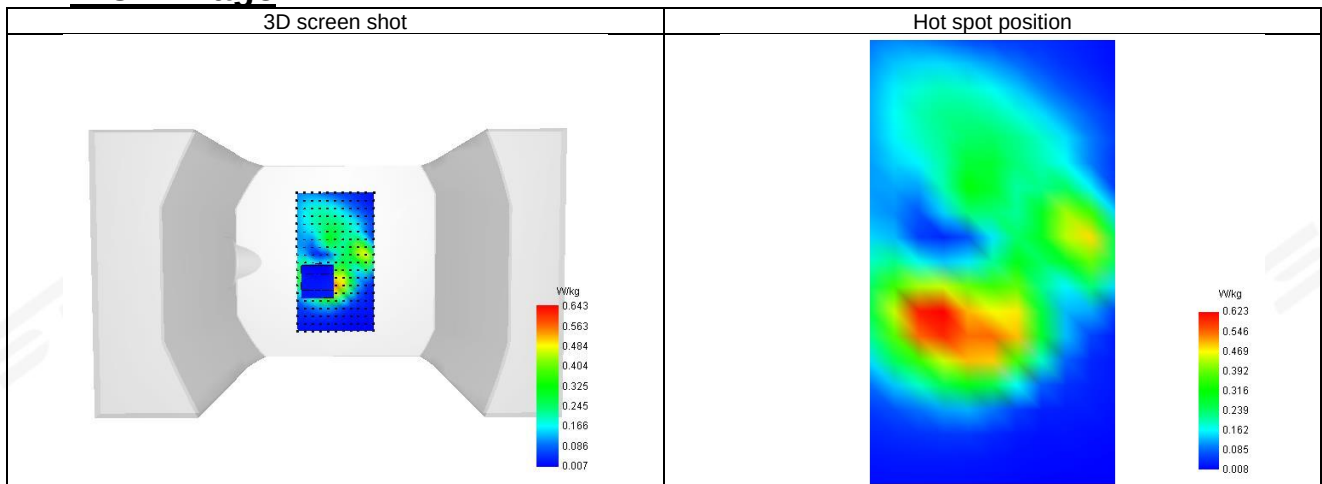
SAR 10g (W/Kg)	0.319
SAR 1g (W/Kg)	0.631
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	55.798399

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.006	0.643	0.359	0.204	0.117	0.067	0.038



F. 3D Image





Appendix C. Probe Calibration and Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※END OF THE REPORT※※※※