SAR Test Report

Report No.: STS2508053H03

Issued for

Shenzhen Wooask Technology Co.,Ltd

Room 501-502, Block A, Building 1, Shenzhen Software Industry Base, Yuehai Subdistrict Nanshan District, Shenzhen 518000 China

Product Name:	AI Translator Earbuds
Brand Name:	N/A
Model Name:	A9
Series Model(s):	N/A
FCC ID:	2AWHA-A9
Test Standard:	ANSI/IEEE Std. C95.1 FCC 47 CFR Part 2 (2.1093) IEEE Std. 1528-2013
Max. Report SAR (1g)	Body: 0.528 W/kg

TEST REPORT CERTIFICATION

Applicant's name ..... :	Shenzhen Wooask Technology Co.,Ltd
Address ..... :	Room 501-502, Block A, Building 1, Shenzhen Software Industry Base, Yuehai Subdistrict Nanshan District, Shenzhen 518000 China
Manufacturer's Name ..... :	Shenzhen Wooask Technology Co.,Ltd
Address ..... :	Room 501-502, Block A, Building 1, Shenzhen Software Industry Base, Yuehai Subdistrict Nanshan District, Shenzhen 518000 China

Product description

Product name ..... :	AI Translator Earbuds
Brand name ..... :	Wooask
Model name ..... :	A9
Series Model(s) :	N/A
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 ..... :	12 Aug. 2025 ~ 23 Aug. 2025
Date of Issue ..... :	03 Sep. 2025
Test Result ..... :	**Pass**

Testing Engineer : Xin Liu

(Xin.Liu)

Technical Manager : Shi fan. long

(Shifan. Long)

Authorized Signatory : Bovey Yang

(Bovey Yang)

SHENZHEN STS TEST SERVICES CO.,LTD. TESTING APPROVAL

Table of Contents

Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	03 Sep. 2025	STS2508053H03	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	AI Translator Earbuds		
Brand Name	Wooask		
Model Name	A9		
Series Model	N/A		
Model Difference	N/A		
Sample number	250808007-1		
Power supply	Input: 5V⎓1A Battery: 3.7V 1500mAh 5.55Wh		
Device Category	Portable		
Product stage	Production unit		
RF Exposure Environment	General Population / Uncontrolled		
Hardware Version	1.0		
Software Version	1.0		
Frequency Range	LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7:2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 41: 2496 MHz ~ 2690 MHz IEEE 802.11b/g/n20: 2412 MHz ~ 2462 MHz IEEE 802.11a:5180--5320MHz, 5500-5700MHz, 5745-5825MHz IEEE 802.11n HT20:5180--5320MHz, 5500-5700MHz, 5745-5825MHz IEEE 802.11n HT40:5190-5310MHz, 5510-5670MHz, 5755-5795MHz Bluetooth: 2402 MHz to 2480 MHz		
Max. Reported SAR(1g): (Limit:1.6W/kg) Test distance: Body:0mm	Band	Mode	Body (W/kg)
	PCB	LTE Band 2	0.528
	PCB	LTE Band 4	0.477
	PCB	LTE Band 5	0.324
	PCB	LTE Band 7	0.405
	PCB	LTE Band 12	0.306
	PCB	LTE Band 17	0.042
	PCB	LTE Band 41	0.129
	DTS	2.4G WLAN	0.078
	DSS	Bluetooth	0.105
	NII	5.2G WLAN	0.231
	NII	5.3G WLAN	0.132

	NII	5.6G WLAN	0.174
	NII	5.8G WLAN	0.198
1-g Sum SAR			0.760
Limit			1.6W/kg
FCC Equipment Class	Digital Transmission System (DTS) Part 15 Spread Spectrum Transmitter (DSS) Licensed Transmitter (PCB) Unlicensed National Information Infrastructure TX(NII)		
Operating Mode:	LTE: QPSK, 16QAM, 64QAM(downlink only) 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 Bluetooth: GFSK +π/4DQPSK+8DPSK BLE: GFSK		
Antenna Specification:	LTE: PIFA Antenna WLAN/BT: 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 (℃)	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 941225 D05 v02r05	SAR for LTE Devices
8	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:

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

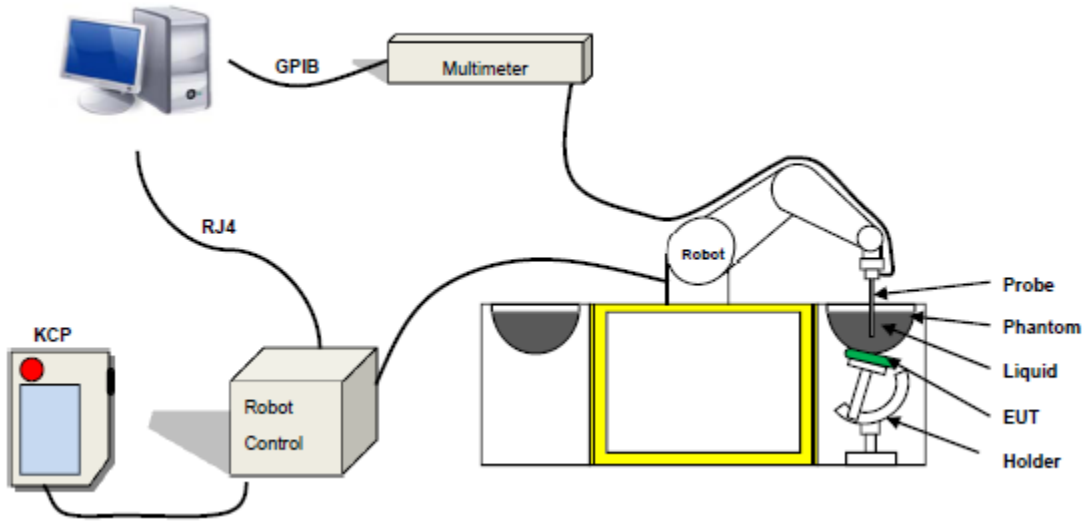
SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be related to the electrical field in the tissue by

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

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

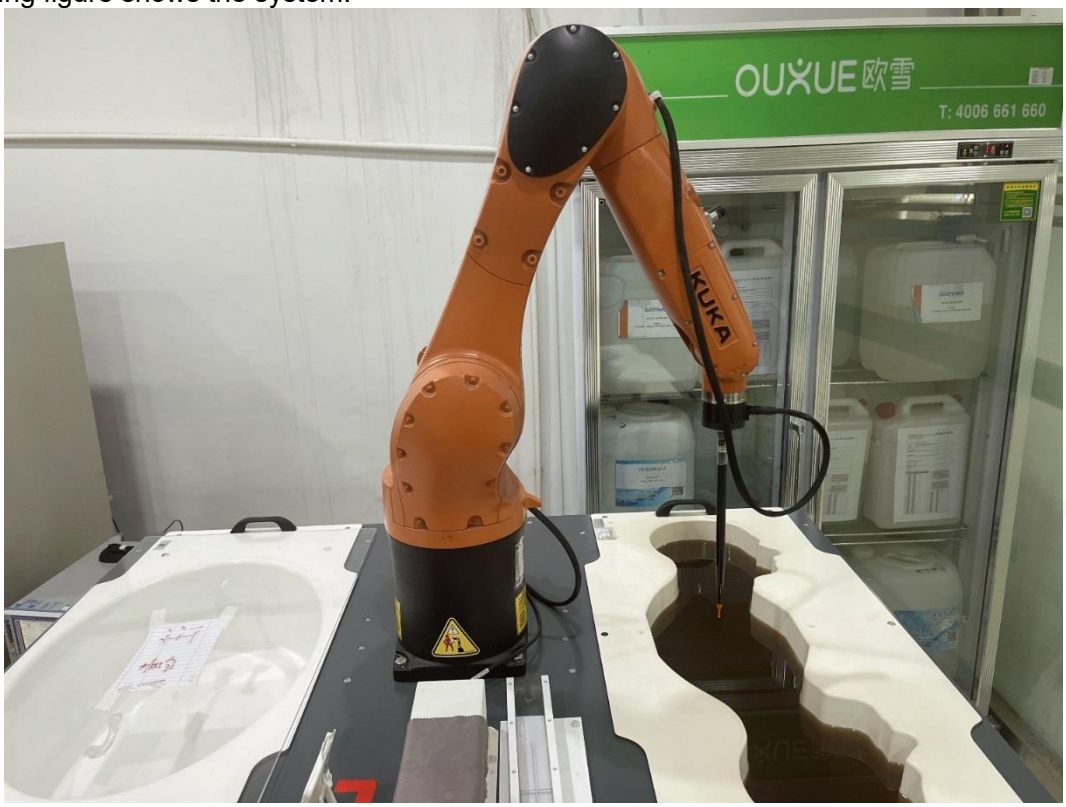
MVG SAR System Diagram:



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

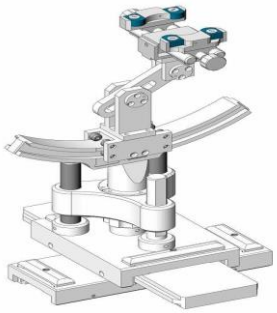
3.2.2 Phantom

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 of 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	εr	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

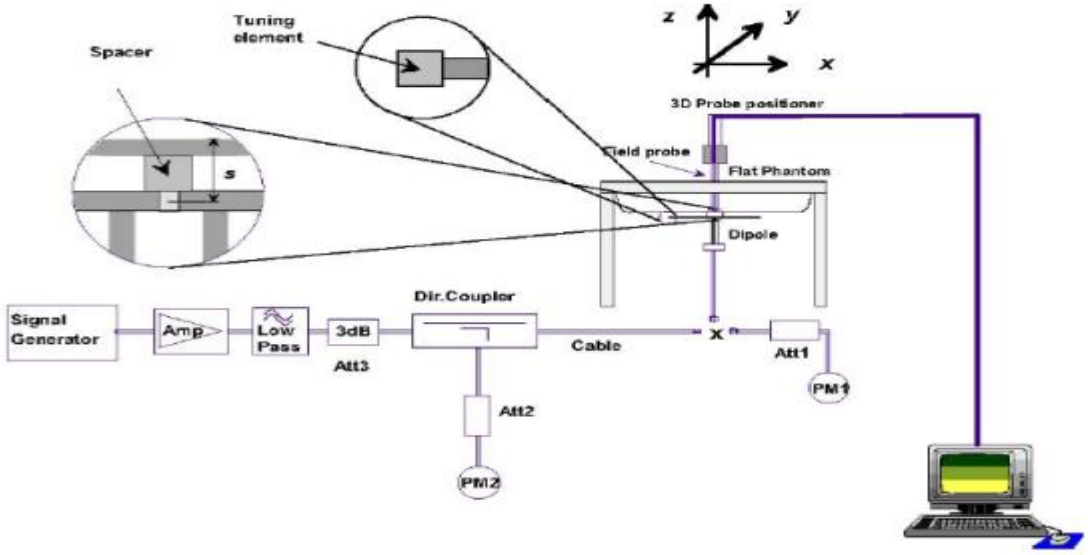
Date	Ambient		Simulating Liquid		Parameters	Target	Measured	Deviation %	Limited %
	Temp. [°C]	Humidity %	Frequency (MHz)	Temp. [°C]					
2025-08-18	23.2	58	709	22.9	Permittivity	42.12	42.77	1.55	±10
					Conductivity	0.89	0.89	0.31	±10
2025-08-18	23.3	58	710	23.0	Permittivity	42.11	42.34	0.54	±10
					Conductivity	0.89	0.87	-1.95	±10
2025-08-18	23.4	59	750	23.1	Permittivity	41.90	42.61	1.69	±10
					Conductivity	0.89	0.91	2.25	±10
2025-08-18	23.2	58	829	22.8	Permittivity	41.53	41.11	-1.01	±10
					Conductivity	0.90	0.89	-1.03	±10
2025-08-18	23.3	58	835	22.9	Permittivity	41.50	41.79	0.70	±10
					Conductivity	0.90	0.93	3.33	±10
2025-08-18	23.3	59	836.8	23.1	Permittivity	41.49	41.40	-0.22	±10
					Conductivity	0.90	0.89	-1.13	±10
2025-08-18	23.4	59	837.5	23.2	Permittivity	41.49	41.31	-0.43	±10
					Conductivity	0.90	0.91	1.08	±10
2025-08-12	20.2	54	1732.5	19.9	Permittivity	40.10	41.18	2.70	±10
					Conductivity	1.36	1.40	2.83	±10
2025-08-12	20.2	54	1745	19.8	Permittivity	40.08	41.30	3.05	±10
					Conductivity	1.37	1.35	-1.36	±10
2025-08-12	20.3	55	1800	20.0	Permittivity	40.00	40.77	1.93	±10
					Conductivity	1.40	1.45	3.57	±10
2025-08-12	20.2	54	1860	19.8	Permittivity	40.00	40.90	2.25	±10
					Conductivity	1.40	1.38	-1.43	±10
2025-08-12	20.3	54	1880	20.0	Permittivity	40.00	40.65	1.63	±10
					Conductivity	1.40	1.45	3.57	±10
2025-08-12	20.4	54	1900	20.1	Permittivity	40.00	40.79	1.98	±10
					Conductivity	1.40	1.46	4.29	±10
2025-08-20	22.9	52	2412	22.6	Permittivity	39.27	39.57	0.77	±10
					Conductivity	1.77	1.82	3.04	±10
2025-08-20	22.9	52	2450	22.6	Permittivity	39.20	39.50	0.77	±10
					Conductivity	1.80	1.75	-2.78	±10
2025-08-20	22.9	52	2510	22.6	Permittivity	39.12	39.70	1.48	±10
					Conductivity	1.86	1.88	0.86	±10

2025-08-20	22.9	52	2549.5	22.6	Permittivity	39.07	39.23	0.42	±10
					Conductivity	1.91	1.91	0.20	±10
2025-08-20	23.0	53	2560	22.7	Permittivity	39.05	40.31	3.22	±10
					Conductivity	1.92	1.92	0.14	±10
2025-08-20	23.0	53	2580	22.7	Permittivity	39.03	39.44	1.06	±10
					Conductivity	1.94	1.95	0.58	±10
2025-08-20	22.9	52	2595	22.5	Permittivity	39.01	39.71	1.80	±10
					Conductivity	1.95	1.91	-2.28	±10
2025-08-20	23.0	52	2600	22.7	Permittivity	39.00	39.98	2.51	±10
					Conductivity	1.96	1.92	-2.04	±10
2025-08-20	23.0	52	2680	22.7	Permittivity	38.90	39.66	1.95	±10
					Conductivity	2.05	2.04	-0.39	±10
2025-08-22	22.8	52	5200	22.5	Permittivity	36.00	36.65	1.81	±10
					Conductivity	4.66	4.61	-1.07	±10
2025-08-22	22.8	52	5300	22.5	Permittivity	35.90	35.90	0.00	±10
					Conductivity	4.76	4.77	0.21	±10
2025-08-22	22.9	52	5400	22.6	Permittivity	35.80	36.53	2.04	±10
					Conductivity	4.86	4.84	-0.41	±10
2025-08-23	23.1	55	5600	22.8	Permittivity	35.55	35.88	0.93	±10
					Conductivity	5.07	5.07	0.10	±10
2025-08-23	23.2	55	5670	22.9	Permittivity	35.46	36.09	1.77	±10
					Conductivity	5.14	5.12	-0.33	±10
2025-08-23	24.0	44	5785	23.6	Permittivity	35.32	35.50	0.52	±10
					Conductivity	5.25	5.18	-1.41	±10
2025-08-23	24.1	44	5800	23.8	Permittivity	35.30	36.84	4.36	±10
					Conductivity	5.27	5.26	-0.19	±10

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	
2025-08-18	750	100 mW	0.848	0.533	-1.30	8.49	5.53	-0.12%	-3.62%	10
		Normalize to 1 Watt	8.48	5.33						
2025-08-18	835	100 mW	0.921	0.597	-2.25	9.63	6.15	-4.36%	-2.93%	10
		Normalize to 1 Watt	9.21	5.97						
2025-08-12	1800	100 mW	3.737	1.939	0.05	38.40	20.10	-2.68%	-3.53%	10
		Normalize to 1 Watt	37.37	19.39						
2025-08-12	1900	100 mW	3.869	1.994	-1.90	39.84	20.20	-2.89%	-1.29%	10
		Normalize to 1 Watt	38.69	19.94						
2025-08-20	2450	100 mW	5.460	2.343	-3.70	54.70	24.11	-0.18%	-2.82%	10
		Normalize to 1 Watt	54.60	23.43						
2025-08-20	2600	100 mW	5.580	2.300	-1.27	56.19	24.08	-0.69%	-4.49%	10
		Normalize to 1 Watt	55.80	23.00						
2025-08-22	5200	10 mW	1.576	0.533	-2.86	163.88	57.29	-3.86%	-7.00%	10
		Normalize to 1 Watt	157.56	53.28						
2025-08-22	5400	10 mW	1.622	0.581	1.47	172.23	59.16	-5.85%	-1.88%	10
		Normalize to 1 Watt	162.16	58.05						
2025-08-23	5600	10 mW	1.738	0.605	-1.16	181.28	61.57	-4.15%	-1.75%	10
		Normalize to 1 Watt	173.75	60.49						
2025-08-23	5800	10 mW	1.816	0.596	1.72	188.95	63.45	-3.87%	-6.12%	10
		Normalize to 1 Watt	181.64	59.57						

Note:

(1)We use a CW signal of 20dBm(750/835/1800/1900/2450/2600MHz) and 10dBm(5000-6000MHz) for system check, and then all SAR values are normalized to 1W forward power. The result must be within ±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

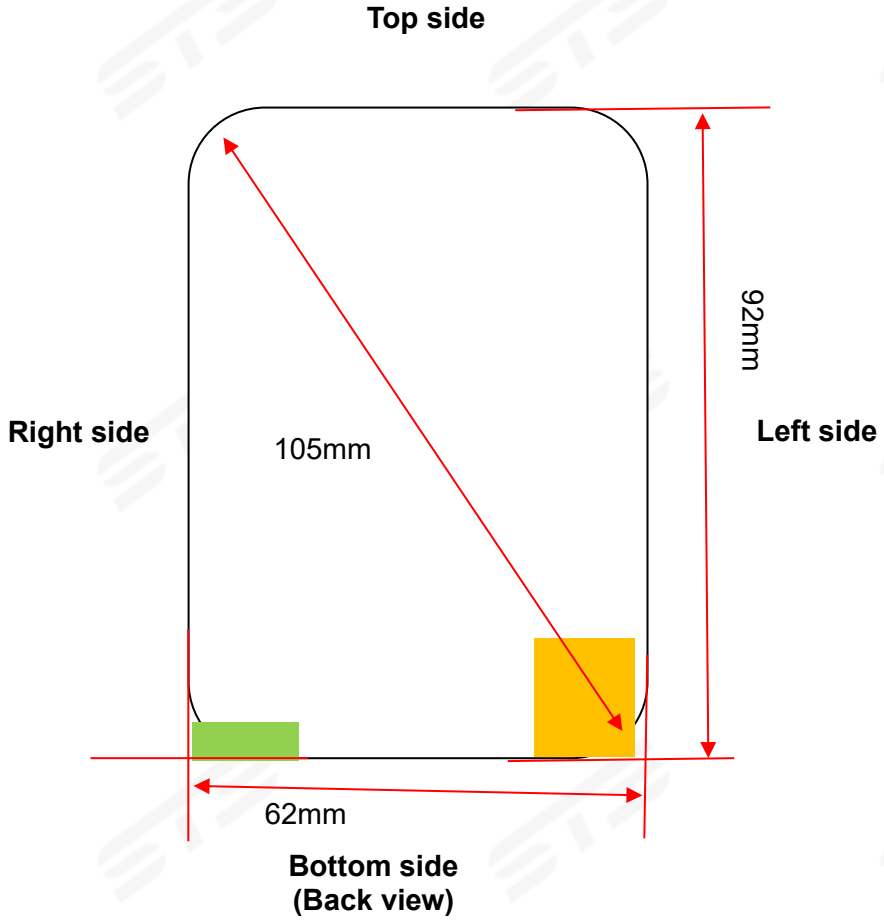
- Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
- Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- Measurement of the SAR distribution with a grid of 8 to 16mm * 8 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.
- 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 Antenna Location Sketch

It is a AI Translator Earbuds, support WCDMA/LTE/WLAN mode.



Antenna Separation Distance(cm)						
ANT	Back Side	Front Side	Left Side	Right Side	Top Side	Bottom Side
WWAN	≤0.5	≤0.5	≤0.5	3.2	7	≤0.5
WLAN/BT	≤0.5	≤0.5	4.7	≤0.5	9	≤0.5

Note 1: The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report.

7.1 SAR test exclusion consider table

The WLAN/WWAN SAR evaluation of Maximum power (dBm) summing tolerance.

Exposure Position	LTE Band 2	LTE Band 4	LTE Band 5	LTE Band 7	LTE Band 12	LTE Band 17	LTE Band 41	BT	2.4G WLAN	5.2G WLAN	5.3G WLAN	5.6G WLAN	5.6G WLAN
	1.88	1.7325	0.829	2.535	0.7075	0.709	2.5495	2.411	2.412	5.2	5.3	5.67	5.785
	24	24	24	24	24	24	24	4	14	10.5	10	10	10.5
	251.19	251.19	251.19	251.19	251.19	251.19	251.19	2.51	25.12	11.22	10.00	10.00	11.22
Back Side	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	3.39	3.62	9.34	2.67	11.67	11.63	2.66	2.78	2.78	1.50	1.48	1.40	1.38
	YES	YES	YES	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES
Front Side	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	3.39	3.62	9.34	2.67	11.67	11.63	2.66	2.78	2.78	1.50	1.48	1.40	1.38
	YES	YES	YES	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES
Left Side	0.5	0.5	0.5	0.5	0.5	0.5	0.5	4.77	4.77	4.77	4.77	4.77	4.77
	3.39	3.62	9.34	2.67	11.67	11.63	2.66	201.27	201.24	158.45	157.51	154.23	153.27
	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO	NO
Right Side	3.2	3.2	3.2	3.2	3.2	3.2	3.2	0.5	0.5	0.5	0.5	0.5	0.5
	104.14	107.58	127.80	92.46	131.79	131.74	92.25	2.78	2.78	1.50	1.48	1.40	1.38
	YES	YES	YES	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES
Top Side	7	7	7	7	7	7	7	9	9	9	9	9	9
	441.25	449.55	385.15	412.19	366.33	366.58	411.65	671.87	671.82	588.04	586.10	579.28	577.27
	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bottom Side	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	3.39	3.62	9.34	2.67	11.67	11.63	2.66	2.78	2.78	1.50	1.48	1.40	1.38
	YES	YES	YES	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES

Note：

1. maximum power is the source-based time-average power and represents the maximum RF output power among production units.
2. Per KDB 447498 D04, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
3. Per KDB 447498 D04, if the maximum time-averaged power available does not exceed 1 mW. This stand-alone SAR exemption test.

4. Per KDB 447498 D04, the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold Pth (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by:

$$P_{th}\ (\text{mW}) = \begin{cases} ERP_{20\ cm}(d/20\ \text{cm})^{x} & d \le 20\ \text{cm} \\ ERP_{20\ cm} & 20\ \text{cm} < d \le 40\ \text{cm} \end{cases}$$

Where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\ cm}\sqrt{f}}\right) \text{ and } f \text{ is in GHz;}$$

and

$$ERP_{20\ cm}\ (\text{mW}) = \begin{cases} 2040f & 0.3\ \text{GHz} \le f < 1.5\ \text{GHz} \\ 3060 & 1.5\ \text{GHz} \le f \le 6\ \text{GHz} \end{cases}$$

d = the separation distance (cm);

5. Per KDB 447498 D04, An alternative to the SAR-based exemption is using below table and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in below table to apply, R must be at least λ/2π, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of λ/4 or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

RF Source frequency (MHz)	Threshold ERP(watts)
0.3-1.34	1,920 R^2.
1.34-30	3,450 R^2/f^2.
30-300	3.83 R^2.
300-1,500	0.0128 R^2f.
1,500-100,000	19.2R^2.

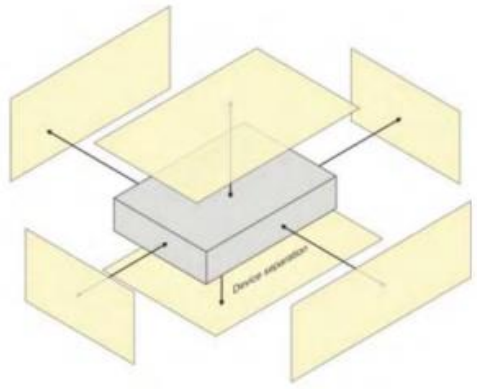
6. Per KDB 248227 D01, choose the highest output power channel to test SAR and determine further SAR exclusion 8.for each frequency band ,testing at higher data rates and higher order modulations is not required when the maximum average output power for each of each of these configurations is less than 1/4db higher than those measured at the lower data rate than 11b mode ,thus the SAR can be excluded.
7. Per KDB 616217 D04, SAR evaluation for the front surface of tablet display screens are generally not necessary.
8. Per KDB 248227, as maximum rated power for U-NII-1＞U-NII-2A, U-NII-1 was chosen for SAR evaluation. Based on the measurements obtained, SAR measurements on U-NII-2A are not required as highest reported SAR from U-NII-1 band is≤1.2W/Kg.

8. EUT Test Position

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

8.1 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 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 EPGO352									
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	E2.5	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	E2.5	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	E2.5	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 ½ 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 ½ 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.
8. According to April 2015 TCB workshop, SAR test exclusion can be applied for testing overlapping LTE bands as follows:

a) The maximum output power, including tolerance, for the smaller band must be s the larger band to qualify for the SAR test exclusion.

b) The channel bandwidth and other operating parameters for the smaller band must be fully supportedby the larger band.

. LTE Band 2 (1850-1910 MHz) is covered by LTE Band 25(1850-1915 MHz)

.LTE Band 4 (1710-1755 MHz) is covered by LTE Band66 (1710-1780MHz)

. LTE Band 17 (704-716 MHz) is covered by LTE Band 12(699-716MHz)

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	**RB Size**	**RB Offset**	**Mod**	**Lowest**	**Middle**	**Highest**
1.4	1	0	QPSK	23.32	23.49	23.56
1.4	1	2		23.59	23.55	23
1.4	1	5		23.52	23.54	23.5
1.4	3	0		22.14	21.87	22.1
1.4	3	1		22.03	21.97	22.15
1.4	3	2		22.41	21.98	22.07
1.4	6	0		21.99	21.9	22.03
1.4	1	0	16-QAM	22.11	22.08	22.12
1.4	1	2		22.4	22.39	22.26
1.4	1	5		22.18	22.07	22.18
1.4	3	0		21.21	21.3	21.26
1.4	3	1		21.36	20.99	21.18
1.4	3	2		21.09	21.09	21.4
1.4	6	0		20.98	21.07	21.48
3	1	0	QPSK	23.55	23.47	23.09
3	1	7		23.31	23.38	23.45
3	1	14		23.56	23.58	23.1
3	8	0		22.02	22.15	22.05
3	8	4		21.92	22.12	21.92
3	8	7		22.23	21.92	22.06
3	15	0		22	22.09	22
3	1	0	16-QAM	22.2	22.1	22.13
3	1	7		22.11	22.08	22.05
3	1	14		22.07	22.15	22.04
3	8	0		21.42	21.26	21.28
3	8	4		21.32	21.36	21.38
3	8	7		21.32	21.1	21.44
3	15	0		21.31	21.19	21.36

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	**RB Size**	**RB Offset**	**Mod**	**Lowest**	**Middle**	**Highest**
5	1	0	QPSK	23.6	23.22	23.07
5	1	12		23.58	23.64	23.47
5	1	24		23.38	23.65	23.19
5	12	0		22.06	22	22.35
5	12	6		22.23	22.2	22.01
5	12	11		22.09	22.36	22.08
5	25	0		21.95	22.33	22
5	1	0	16-QAM	21.97	22.11	22.26
5	1	12		22.22	22.38	22.23
5	1	24		22.12	22.34	22.39
5	12	0		21.43	21.09	21.18
5	12	6		21.13	21.03	21.3
5	12	11		21.18	21.38	21.12
5	25	0		21.41	21.38	21.21
10	1	0	QPSK	23.36	23.07	22.95
10	1	24		23.75	23.62	23.06
10	1	49		23.61	23.44	23.56
10	25	0		22.1	22.28	22.06
10	25	12		22.13	22.28	22.13
10	25	24		22.2	22.07	21.9
10	50	0		22.26	22.21	22.37
10	1	0	16-QAM	22.27	22.29	21.98
10	1	24		22.28	22.43	22.05
10	1	49		22.33	22.34	22.19
10	25	0		21.11	21.3	21.44
10	25	12		21.19	21.09	21.37
10	25	24		21.37	21.5	21.42
10	50	0		20.98	21.48	21.38

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	**RB Size**	**RB Offset**	**Mod**	**Lowest**	**Middle**	**Highest**
15	1	0	QPSK	23.22	23.19	23.06
15	1	37		23.16	23.67	23.43
15	1	74		23	23.29	23.06
15	36	0		22.24	22.19	22.28
15	36	18		22.24	21.84	22
15	36	39		22.32	22.2	22.04
15	75	0		21.95	22.07	22.13
15	1	0	16-QAM	22.2	22.22	22
15	1	38		21.88	22.25	22.25
15	1	75		22.05	21.93	22.03
15	36	0		21.42	21.04	21.2
15	36	18		21.02	20.97	21
15	36	39		21.44	21.32	21.35
15	75	0		21.17	21.47	21.16
20	1	0	QPSK	23.1	23.61	23.43
20	1	49		23.21	23.44	23.57
20	1	99		23.14	23.4	23.08
20	50	0		21.9	22.03	22.05
20	50	24		22.39	22.11	21.99
20	50	49		22.16	22.35	22.12
20	100	0		22.29	22.13	22.15
20	1	0	16-QAM	22.29	22.29	22.22
20	1	49		22.08	22.35	22.16
20	1	99		22.22	22.2	22.02
20	50	0		21.13	21.21	21.41
20	50	24		21.23	21.11	21.34
20	50	49		21.22	21.1	21.18
20	100	0		21.47	21.26	21.18

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	**RB Size**	**RB Offset**	**Mod**	**Lowest**	**Middle**	**Highest**
1.4	1	0	QPSK	23.28	23.1	23.02
1.4	1	2		23.38	23.43	23.49
1.4	1	5		23.56	22.95	23.01
1.4	3	0		22.09	22.12	22.11
1.4	3	1		21.92	22.34	21.81
1.4	3	2		21.89	22.2	22.25
1.4	6	0		22.23	22.17	22.41
1.4	1	0	16-QAM	21.81	22.09	22.18
1.4	1	2		22.21	22.1	22.36
1.4	1	5		22.21	22.18	21.98
1.4	3	0		21.37	21.16	21.42
1.4	3	1		21.09	21	21.3
1.4	3	2		21.35	21.19	21.13
1.4	6	0		20.94	21.3	21.16
3	1	0	QPSK	23.45	23.54	22.84
3	1	7		23.34	23.41	23.27
3	1	14		23.31	23.33	23.28
3	8	0		22.14	21.91	22.15
3	8	4		22.07	22.06	22.09
3	8	7		21.89	21.91	22.11
3	15	0		21.87	22.08	22.01
3	1	0	16-QAM	22.17	22.07	22.09
3	1	7		22.29	21.85	22.11
3	1	14		21.9	21.98	22.33
3	8	0		21.03	21.13	21.23
3	8	4		21.1	21.4	20.96
3	8	7		21.24	21.08	21.14
3	15	0		21.3	21.23	21.13

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.01	23.56	23.17
5	1	12		23.47	23.63	23.37
5	1	24		22.88	23.08	23.55
5	12	0		22.06	21.78	22.01
5	12	6		22.02	22.01	22.03
5	12	11		22.27	22.29	22.29
5	25	0		21.96	22.13	22.18
5	1	0	16-QAM	21.95	22.03	22.27
5	1	12		21.92	21.95	22.3
5	1	24		22.12	22.18	21.85
5	12	0		21.35	21.36	21.26
5	12	6		21.09	21.19	21.28
5	12	11		21.22	21.26	21.27
5	25	0		21.32	21.24	21.27
10	1	0	QPSK	23.35	23.37	23.33
10	1	24		23.55	22.76	23.38
10	1	49		23.5	23.21	23.38
10	25	0		22.25	21.83	22
10	25	12		21.83	22.1	22.28
10	25	24		22.06	22.16	22.01
10	50	0		21.98	22.24	22.09
10	1	0	16-QAM	21.77	21.96	22.35
10	1	24		21.95	21.84	21.93
10	1	49		21.82	22.29	21.93
10	25	0		21.29	21.19	20.97
10	25	12		21.17	21.52	21.28
10	25	24		21.13	20.89	21.25
10	50	0		21.22	21.23	21.34

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	**RB Size**	**RB Offset**	**Mod**	**Lowest**	**Middle**	**Highest**
15	1	0	QPSK	23.12	23.27	23.6
15	1	37		23.39	22.83	23.49
15	1	74		23.26	23.53	23.44
15	36	0		21.86	22.23	22.14
15	36	18		21.9	21.91	22.1
15	36	39		21.79	22	22.06
15	75	0		21.79	22.04	22.1
15	1	0	16-QAM	22.06	22.25	22.04
15	1	38		21.96	22.29	22.17
15	1	75		22.2	22.03	22.11
15	36	0		21.28	21.14	21.22
15	36	18		21.08	21.13	21.32
15	36	39		21.38	21.36	21.12
15	75	0		20.98	21.16	21.18
20	1	0	QPSK	23.38	23.52	23.22
20	1	49		23.52	23.4	22.84
20	1	99		23.3	23.1	23.47
20	50	0		21.95	21.9	22.14
20	50	24		21.77	22.1	21.86
20	50	49		22.14	22.09	21.77
20	100	0		22.17	22.23	22.17
20	1	0	16-QAM	21.81	21.98	21.96
20	1	49		22.23	22.28	22.01
20	1	99		21.9	21.91	22.18
20	50	0		21.34	20.99	21.09
20	50	24		20.9	21.33	21.48
20	50	49		21.35	21.28	21.04
20	100	0		21.37	21.27	21.17

LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	**RB Size**	**RB Offset**	**Mod**	**Lowest**	**Middle**	**Highest**
5	1	0	QPSK	23.27	23.44	22.8
5	1	12		23.09	23.28	23.08
5	1	24		23.43	23.07	23.32
5	12	0		21.87	21.97	21.89
5	12	6		22.4	21.99	22.19
5	12	11		22.15	22.05	22.31
5	25	0		22.19	22.11	22.09
5	1	0	16-QAM	22.27	21.8	22.1
5	1	12		22.05	21.93	22
5	1	24		21.9	22.24	21.95
5	12	0		21.22	21.15	21.3
5	12	6		21.04	21.32	21
5	12	11		21.31	21.18	21.02
5	25	0		21.49	21.3	21.52
10	1	0	QPSK	23.58	22.97	23.4
10	1	24		23.59	23.29	23.44
10	1	49		23.4	23.21	23.16
10	25	0		21.9	22.13	22.31
10	25	12		22.21	22.29	22.15
10	25	24		22.27	22.33	22.25
10	50	0		22.17	21.94	22.2
10	1	0	16-QAM	22.13	21.93	22.37
10	1	24		21.99	22.3	21.87
10	1	49		22.09	21.99	22.2
10	25	0		21.1	21.24	21.15
10	25	12		21.13	21.43	20.88
10	25	24		21.31	21.12	21.1
10	50	0		21.26	21.32	21.28

LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	**RB Size**	**RB Offset**	**Mod**	**Lowest**	**Middle**	**Highest**
5	1	0	QPSK	23.6	23.24	23.18
5	1	12		23.62	23.5	23.42
5	1	24		23.26	23.57	23.11
5	12	0		22.2	21.96	22.29
5	12	6		22.27	22.19	21.98
5	12	11		22.05	22.23	22.11
5	25	0		21.87	22.36	21.87
5	1	0	16-QAM	22.01	22.2	22.28
5	1	12		22.32	22.27	22.27
5	1	24		22.15	22.41	22.39
5	12	0		21.44	21.13	21.25
5	12	6		21.08	21.01	21.28
5	12	11		21.23	21.37	21.03
5	25	0		21.33	21.32	21.28
10	1	0	QPSK	23.27	23.02	23.01
10	1	24		23.75	23.51	23.05
10	1	49		23.64	23.57	23.68
10	25	0		22.13	22.14	22.1
10	25	12		22.14	22.29	22.2
10	25	24		22.24	22.07	21.95
10	50	0		22.23	22.27	22.43
10	1	0	16-QAM	22.32	22.27	21.92
10	1	24		22.25	22.38	22.15
10	1	49		22.35	22.35	22.27
10	25	0		21.14	21.37	21.49
10	25	12		21.26	21.2	21.27
10	25	24		21.25	21.35	21.54
10	50	0		21.08	21.48	21.48

LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	**RB Size**	**RB Offset**	**Mod**	**Lowest**	**Middle**	**Highest**
15	1	0	QPSK	23.21	23.1	23.03
15	1	37		23.2	23.68	23.29
15	1	74		23.03	23.23	22.97
15	36	0		22.2	22.16	22.26
15	36	18		22.32	21.87	22.07
15	36	39		22.33	22.22	22.08
15	75	0		22.1	22.05	22.16
15	1	0	16-QAM	22.11	22.13	22.07
15	1	37		21.99	22.24	22.28
15	1	74		22.07	21.96	22.02
15	36	0		21.41	21	21.07
15	36	18		20.98	21.05	21.15
15	36	39		21.35	21.44	21.41
15	75	0		21.14	21.33	21.06
20	1	0	QPSK	23.13	23.54	23.37
20	1	49		23.2	23.42	23.54
20	1	99		23.14	23.53	23.01
20	50	0		21.96	22.14	22.08
20	50	24		22.33	22	22.03
20	50	49		22.26	22.27	22.02
20	100	0		22.17	21.94	22.18
20	1	0	16-QAM	22.32	22.17	22.28
20	1	49		22.07	22.38	22.25
20	1	99		22.24	22.25	22.02
20	50	0		21.25	21.31	21.3
20	50	24		21.18	21.14	21.52
20	50	49		21.28	21.22	21.15
20	100	0		21.5	21.27	21.07

LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	**RB Size**	**RB Offset**	**Mod**	**Lowest**	**Middle**	**Highest**
1.4	1	0	QPSK	23.05	23.14	22.9
1.4	1	2		23.22	23.31	23.33
1.4	1	5		23.56	23.55	23.67
1.4	3	0		22.22	22.08	22.1
1.4	3	1		22.03	22.29	21.96
1.4	3	2		22.01	21.94	21.86
1.4	6	0		22.18	21.86	22.11
1.4	1	0	16-QAM	21.8	21.91	22.3
1.4	1	2		21.78	22.05	22.36
1.4	1	5		22.12	22.35	22.24
1.4	3	0		21.2	21.05	21.24
1.4	3	1		21.21	21.49	21.38
1.4	3	2		21.34	21.24	21.2
1.4	6	0		21.28	21.14	21.33
3	1	0	QPSK	23.4	23.43	23.1
3	1	7		23.26	22.93	23.42
3	1	14		23.28	23.33	23.44
3	8	0		21.83	22.07	21.92
3	8	4		21.9	22.19	21.8
3	8	7		22.1	22.07	21.99
3	15	0		22.09	22.05	21.95
3	1	0	16-QAM	22.03	22.31	22.13
3	1	7		22.25	22.07	21.9
3	1	14		22.09	22.23	21.89
3	8	0		20.89	21.07	21.26
3	8	4		21.03	21.4	21.4
3	8	7		21.28	21.19	20.94
3	15	0		20.95	21.19	21.12

LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.72	23.15	23.06
5	1	12		22.9	22.98	22.95
5	1	24		23.35	23.36	23.36
5	12	0		22	21.84	21.89
5	12	6		21.99	21.75	21.93
5	12	11		21.84	22.22	22.12
5	25	0		22	22.15	22.01
5	1	0	16-QAM	22.05	22.2	21.97
5	1	12		21.98	21.82	22.4
5	1	24		22.28	22.07	22.02
5	12	0		21.15	21.07	21.34
5	12	6		21.24	21.38	21.38
5	12	11		20.99	20.89	21.33
5	25	0		21.13	21.01	21.4
10	1	0	QPSK	23.49	23.51	23.39
10	1	24		23.06	23.45	23.15
10	1	49		23.49	23.47	23.19
10	25	0		21.94	22.15	21.98
10	25	12		22.17	22.04	21.93
10	25	24		22.01	22.01	22.1
10	50	0		22.05	22.04	22.06
10	1	0	16-QAM	22.19	22.05	22.08
10	1	24		22.01	22.14	21.98
10	1	49		22.04	21.9	22.09
10	25	0		20.99	21.19	20.97
10	25	12		21.11	21.12	21.35
10	25	24		21.27	21.44	21.12
10	50	0		20.96	21.35	21.1

LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	**RB Size**	**RB Offset**	**Mod**	**Lowest**	**Middle**	**Highest**
5	1	0	QPSK	23.39	23.23	23.11
5	1	12		23.38	23.51	23.42
5	1	24		23.45	23.55	23.09
5	12	0		21.9	22.23	21.88
5	12	6		22.19	22.09	22.45
5	12	11		22.34	21.98	22.2
5	25	0		21.9	22.37	22.16
5	1	0	16-QAM	22.31	22.13	22.26
5	1	12		22.21	22.11	22.03
5	1	24		21.88	21.93	22.33
5	12	0		21.12	21.22	21.25
5	12	6		21.36	21.25	21.22
5	12	11		21.1	21.14	21.3
5	25	0		21.1	21.28	21.13
10	1	0	QPSK	23.67	23.16	23.16
10	1	24		23.33	23.34	23.06
10	1	49		22.98	23.58	23.16
10	25	0		22	22.09	22.12
10	25	12		21.83	22.13	22.05
10	25	24		21.93	21.93	22.08
10	50	0		21.97	22.14	22.09
10	1	0	16-QAM	22.33	22.13	21.98
10	1	24		22.22	21.93	21.99
10	1	49		22.3	22.25	22.03
10	25	0		21.23	21.41	21.42
10	25	12		21	20.91	21.27
10	25	24		21.26	21.38	21.16
10	50	0		21.27	21.16	21.19

LTE Band 41								
BW	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)				
(MHz)				39750	40185	40620	41055	41490
				2506	2549. 5	2593	2636. 5	2680
20	QPSK	1	0	23.43	23.26	23.18	23.18	23.44
20	QPSK	1	49	23.3	23	22.89	23.08	23.2
20	QPSK	1	99	23.49	23.64	23.35	23.26	22.87
20	QPSK	50	0	21.79	22.06	22.13	22.13	22.3
20	QPSK	50	24	21.97	22.22	22.21	22.1	21.91
20	QPSK	50	50	22.18	21.8	21.83	22.01	21.92
20	QPSK	100	0	22.4	22.11	21.83	22.09	22.17
20	16QAM	1	0	22.29	22.27	22.12	22.16	22.27
20	16QAM	1	49	21.96	21.89	22.12	22.17	22.1
20	16QAM	1	99	21.89	21.79	22.05	21.99	22.09
20	16QAM	50	0	21.3	21.25	21.25	20.99	21.31
20	16QAM	50	24	21.24	21.16	21.33	21.15	21.3
20	16QAM	50	50	21.16	21.05	20.87	20.93	21.14
20	16QAM	100	0	21.06	21.36	21.34	21.16	21.32
BW	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)				
(MHz)				39725	40173	40620	41068	41515
				2503. 5	2548. 5	2593	2637. 8	2682. 5
15	QPSK	1	0	23.72	23.31	23.5	23.15	23.07
15	QPSK	1	37	22.9	23.05	23.18	23.05	22.97
15	QPSK	1	74	22.93	23.17	23.42	23.32	23.57
15	QPSK	36	0	22.04	22.09	22.14	22.04	22.09
15	QPSK	36	20	21.99	21.81	21.74	21.79	22.12
15	QPSK	36	39	21.74	21.71	21.99	21.87	21.92
15	QPSK	75	0	22.13	21.89	21.9	21.82	22.12
15	16QAM	1	0	22.15	22.08	21.99	21.86	22.05
15	16QAM	1	37	22	22.01	21.86	22.2	22.25
15	16QAM	1	74	21.98	21.89	21.95	21.77	22.09
15	16QAM	36	0	21.09	21.11	21.27	21.05	20.98
15	16QAM	36	20	20.89	21.01	21.16	21.26	21.38
15	16QAM	36	39	21.01	21.08	20.97	20.98	21.19
15	16QAM	75	0	21.21	21.08	21.29	21.38	21.34

BW	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)				
(MHz)				39700	40160	40620	41080	41540
				2501	2547	2593	2639	2685
10	QPSK	1	0	23.25	23.19	23.13	23.02	23.18
10	QPSK	1	25	23.49	23.38	23.32	23.35	23.54
10	QPSK	1	49	23.07	23.24	23.37	23.48	23.41
10	QPSK	25	0	22.11	22.1	21.94	21.89	21.81
10	QPSK	25	12	22.19	22.05	22.08	22.27	22.42
10	QPSK	25	25	21.98	21.86	22.14	22.09	22.12
10	QPSK	50	0	22.1	21.95	21.99	21.85	22.24
10	16QAM	1	0	22.21	22.06	22.26	22.02	21.95
10	16QAM	1	25	21.82	22.11	22.23	22.07	22.3
10	16QAM	1	49	22.11	22.14	22.05	21.81	22
10	16QAM	25	0	21.12	21.11	21.36	21.06	21.23
10	16QAM	25	12	21.22	21.26	21.31	21.16	21.19
10	16QAM	25	25	21.14	21.11	21.14	20.97	21.01
10	16QAM	50	0	21.47	21.27	21.47	21.2	20.99
BW	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)				
(MHz)				39675	40148	40620	41093	51565
				2498. 5	2545. 8	2593	2640. 3	2687. 5
5	QPSK	1	0	23.3	23.36	23.4	23.41	23.38
5	QPSK	1	12	23.49	23.44	23.29	22.99	23.12
5	QPSK	1	24	23.47	23.47	23.4	23.48	23.5
5	QPSK	12	0	21.97	21.7	22	21.84	21.97
5	QPSK	12	7	22.07	21.81	21.94	22.02	22.14
5	QPSK	12	13	21.75	22.03	22.4	22	22.25
5	QPSK	25	0	22.13	21.76	21.8	22.08	22.26
5	16QAM	1	0	22.25	22.1	21.95	21.85	22.12
5	16QAM	1	12	21.98	21.86	22.12	21.89	21.81
5	16QAM	1	24	21.81	21.93	22.06	21.78	21.8
5	16QAM	12	0	20.97	20.98	21.28	21.3	21.27
5	16QAM	12	7	20.92	21.09	21.17	21.24	21.21
5	16QAM	12	13	21.02	21.06	21.05	20.96	21.16
5	16QAM	25	0	21.07	21.1	21.38	21.14	21.12

BT

BT				
Mode	Channel Number	Frequency (MHz)	Conducted Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	-1.55	0.70
	39	2441	1.5	1.41
	78	2480	0.43	1.10
π/4-QPSK(2Mbps)	0	2402	0.6	1.15
	39	2441	3.22	2.10
	78	2480	2.08	1.61
8DPSK(3Mbps)	0	2402	0.99	1.26
	39	2441	3.61	2.30
	78	2480	2.4	1.74

BLE

BLE				
Mode	Channel Number	Frequency (MHz)	Conducted Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	-2.01	0.63
	19	2440	0.68	1.17
	39	2480	-0.21	0.95

2.4G WLAN

2.4GWIFI				
Mode	Channel Number	Frequency (MHz)	Conducted Power (dBm)	Output Power (mW)
802.11b	1	2412	13.94	24.77
	7	2437	13.12	20.51
	11	2462	13.38	21.78
802.11g	1	2412	13.29	21.33
	7	2437	12.48	17.70
	11	2462	12.78	18.97
802.11 n-HT20	1	2412	13.79	23.93
	7	2437	12.94	19.68
	11	2462	13.26	21.18

5.2G WLAN

5.2G WLAN				
Mode	Channel Number	Frequency (MHz)	Total Power (dBm)	Output Power (mW)
802.11a	36	5180	10.12	10.28
	40	5200	9.84	9.64
	48	5240	9.27	8.45
802.11 n-HT20	36	5180	9.93	9.84
	40	5200	10.20	10.47
	48	5240	9.43	8.77
802.11 n-HT40	38	5190	10.12	10.28
	46	5230	8.84	7.66

5.3G WLAN

5.3G WLAN				
Mode	Channel Number	Frequency (MHz)	Total Power (dBm)	Output Power (mW)
802.11a	52	5260	8.15	6.53
	60	5300	9.25	8.41
	64	5320	9.17	8.26
802.11 n-HT20	52	5260	9.27	8.45
	60	5300	9.69	9.31
	64	5320	9.53	8.97
802.11 n-HT40	54	5270	8.74	7.48
	62	5310	9.31	8.53

5.6G WLAN

5.6G WLAN				
Mode	Channel Number	Frequency (MHz)	Total Power (dBm)	Output Power (mW)
802.11a	100	5500	9.38	8.67
	116	5580	9.37	8.65
	140	5700	9.48	8.87
802.11 n-HT20	100	5500	9.57	9.06
	116	5580	9.66	9.25
	140	5700	9.82	9.59
802.11 n-HT40	102	5510	9.10	8.13
	110	5550	8.96	7.87
	134	5670	9.89	9.75

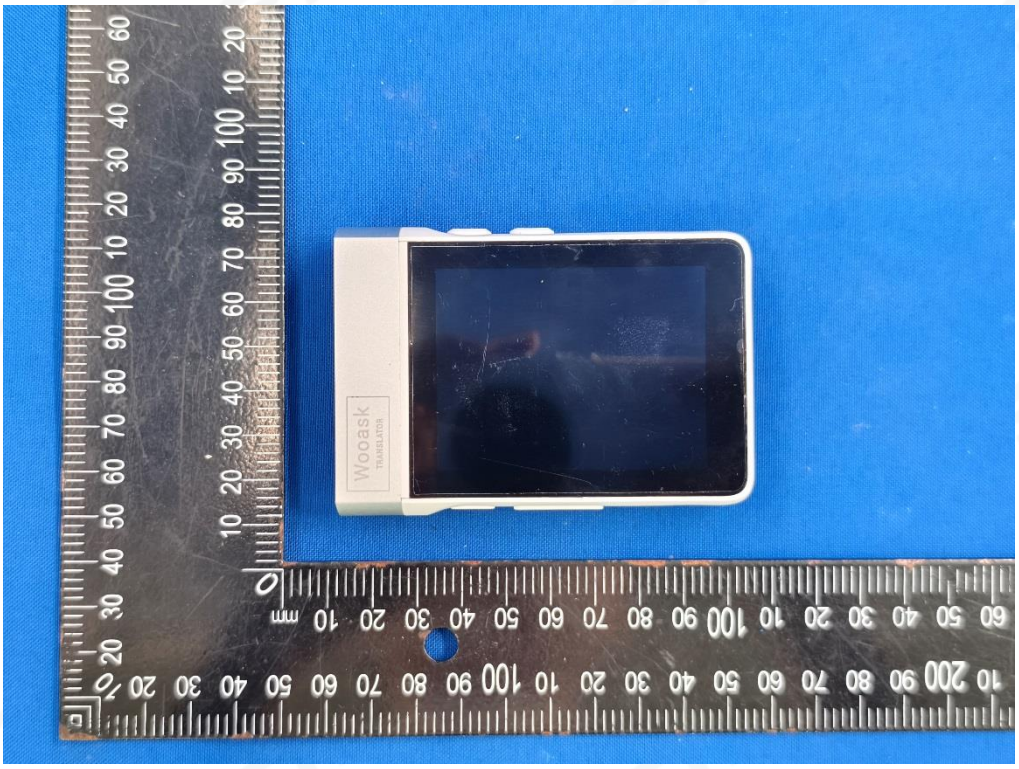
5.8G WLAN

5.8G WLAN				
Mode	Channel Number	Frequency (MHz)	Total Power (dBm)	Output Power (mW)
802.11a	149	5745	10.12	10.28
	157	5785	9.84	9.64
	165	5825	9.27	8.45
802.11 n-HT20	149	5745	9.93	9.84
	157	5785	10.20	10.47
	165	5825	9.43	8.77
802.11 n-HT40	151	5755	10.12	10.28
	159	5795	8.84	7.66

11. EUT and Test Setup Photo

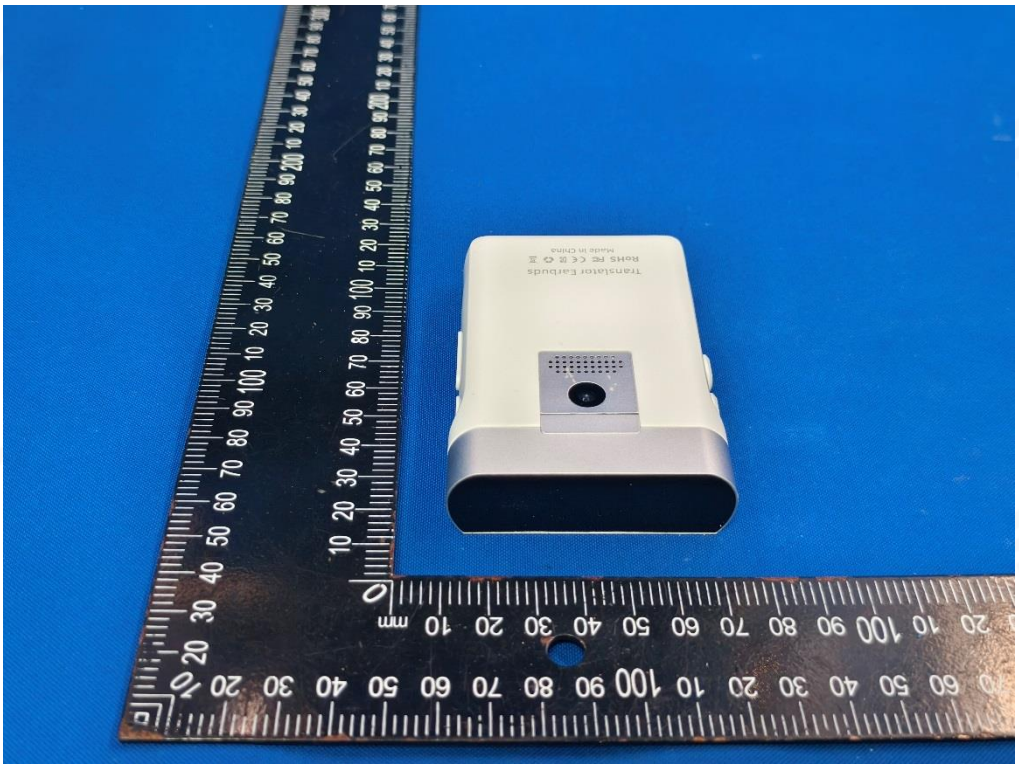
11.1 EUT Photo

Front side



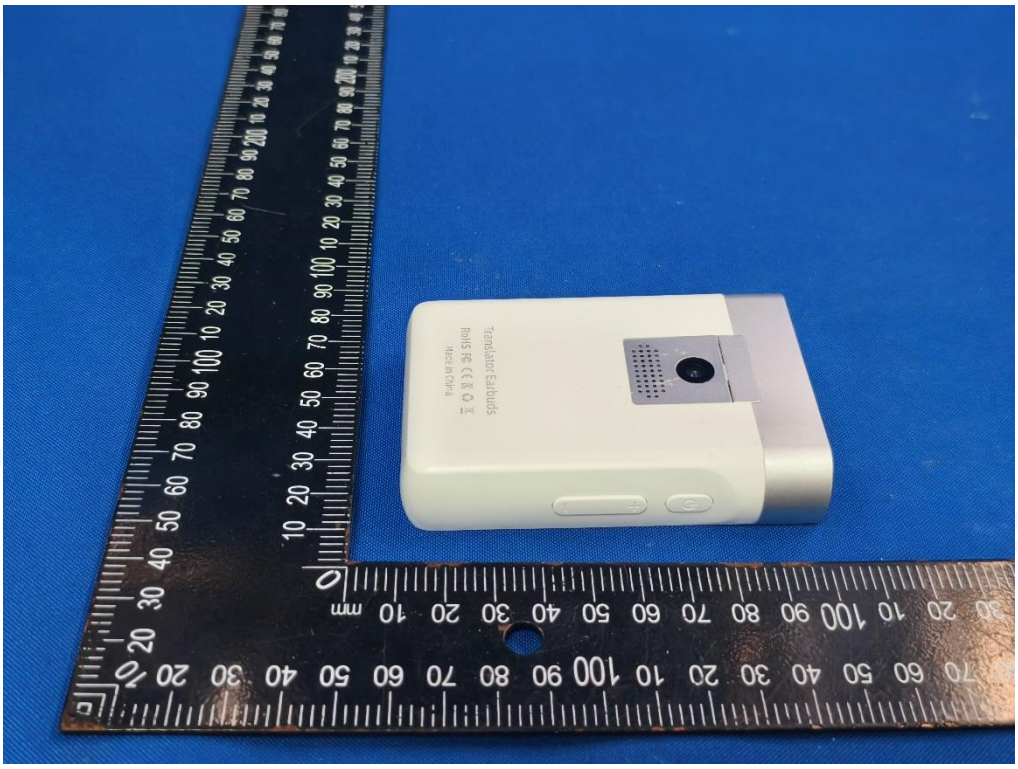
Back side

Top side

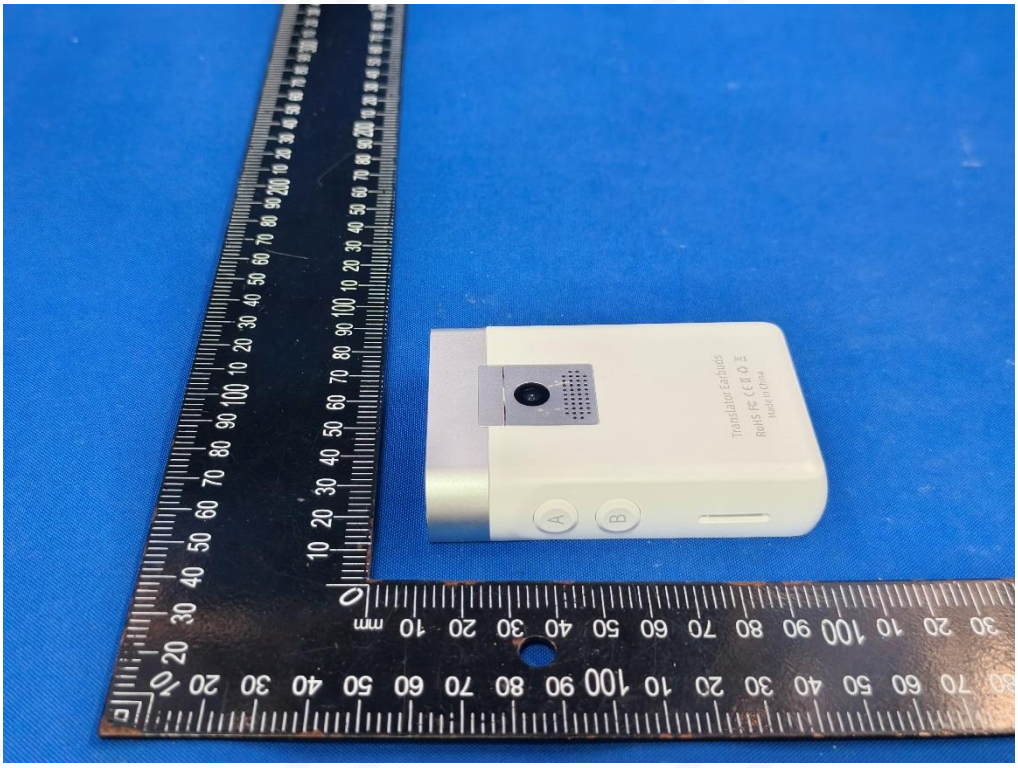


Bottom side

Left side



Right side



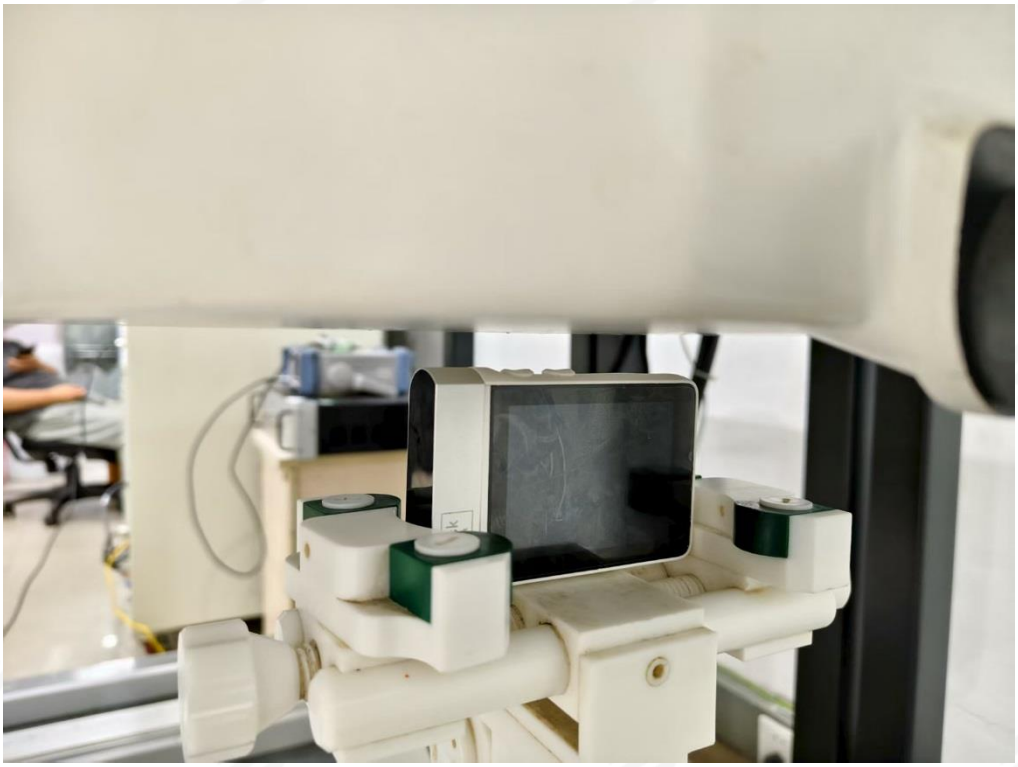
11.2 Setup Photo

Body Front side(separation distance is 5mm)

Body Back Side (separation distance is 5mm)

Body Left side(separation distance is 5mm)

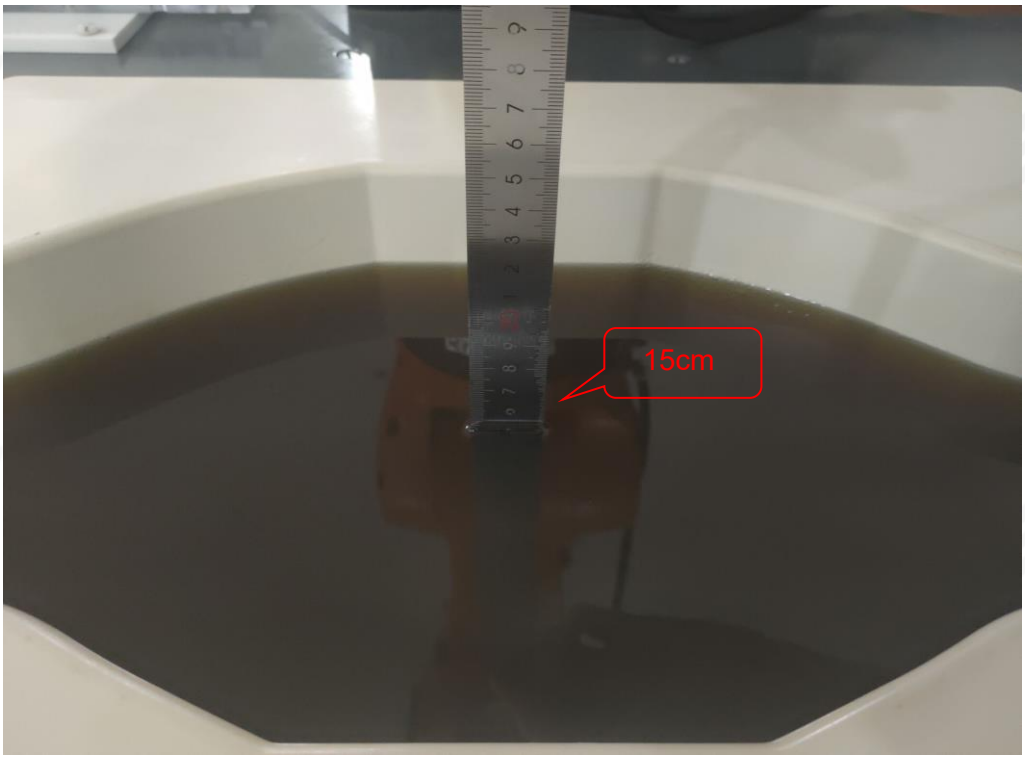
Body Right Side (separation distance is 5mm)



Body Top side(separation distance is 5mm)

Body Bottom Side (separation distance is 5mm)

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.
LTE Band 2	20M	QPSK	1	0	Front side	1860	0.415	-3.04	24.00	23.10	1.230	**0.511**	/
			1	0	Front side	1880	0.483	3.00	24.00	23.61	1.094	**0.528**	1
			1	0	Front side	1900	0.428	0.74	24.00	23.43	1.140	0.488	/
			50	24	Front side	1860	0.369	-2.22	22.50	22.39	1.026	0.378	/
			1	0	Back Side	1880	0.341	-1.65	24.00	23.61	1.094	0.373	/
			50	24	Back Side	1860	0.356	-1.60	22.50	22.39	1.026	0.365	/
			1	0	Left Side	1880	0.310	-0.73	24.00	23.61	1.094	0.339	/
			50	24	Left Side	1860	0.314	1.26	22.50	22.39	1.026	0.322	/
			1	0	Right Side	1880	0.259	-1.16	24.00	23.61	1.094	0.283	/
			50	24	Right Side	1860	0.241	0.46	22.50	22.39	1.026	0.247	/
			1	0	Bottom Side	1880	0.365	0.27	24.00	23.61	1.094	0.399	/
			50	24	Bottom Side	1860	0.364	1.12	22.50	22.39	1.026	0.373	/
LTE Band 4	20M	QPSK	1	0	Front side	1732.5	0.427	1.04	24.00	23.52	1.117	**0.477**	**2**
			50	0	Front side	1745	0.415	2.35	22.50	22.14	1.086	0.451	/
			1	0	Back Side	1732.5	0.365	0.81	24.00	23.52	1.117	0.408	/
			50	0	Back Side	1745	0.335	2.46	22.50	22.14	1.086	0.364	/
			1	0	Left Side	1732.5	0.347	-3.75	24.00	23.52	1.117	0.388	/
			50	0	Left Side	1745	0.358	2.68	22.50	22.14	1.086	0.389	/
			1	0	Right Side	1732.5	0.305	0.74	24.00	23.52	1.117	0.341	/
			50	0	Right Side	1745	0.311	1.16	22.50	22.14	1.086	0.338	/
			1	0	Bottom Side	1732.5	0.305	-3.71	24.00	23.52	1.117	0.341	/
			50	0	Bottom Side	1745	0.316	-2.27	22.50	22.14	1.086	0.343	/
LTE Band 5	10M	QPSK	1	24	Front side	829	0.295	-1.58	24.00	23.59	1.099	**0.324**	**3**
			25	24	Front side	836.5	0.286	-2.69	22.50	22.33	1.040	0.297	/
			1	24	Back Side	829	0.236	1.69	24.00	23.59	1.099	0.259	/
			25	24	Back Side	836.5	0.205	0.41	22.50	22.33	1.040	0.213	/
			1	24	Left Side	829	0.288	0.64	24.00	23.59	1.099	0.317	/
			25	24	Left Side	836.5	0.269	-2.34	22.50	22.33	1.040	0.280	/
			1	24	Right Side	829	0.222	2.35	24.00	23.59	1.099	0.244	/
			25	24	Right Side	836.5	0.240	-2.47	22.50	22.33	1.040	0.250	/
			1	24	Bottom Side	829	0.239	0.74	24.00	23.59	1.099	0.263	/
			25	24	Bottom Side	836.5	0.229	1.22	22.50	22.33	1.040	0.238	/
LTE Band 7	20M	QPSK	1	49	Front side	2560	0.364	-2.34	24.00	23.54	1.112	**0.405**	**4**
			50	24	Front side	2510	0.359	1.21	22.50	22.33	1.040	0.373	/
			1	49	Back Side	2560	0.315	-2.33	24.00	23.54	1.112	0.350	/
			50	24	Back Side	2510	0.302	-2.74	22.50	22.33	1.040	0.314	/
			1	49	Left Side	2560	0.333	-3.50	24.00	23.54	1.112	0.370	/
			50	24	Left Side	2510	0.326	1.74	22.50	22.33	1.040	0.339	/
			1	49	Right Side	2560	0.295	0.19	24.00	23.54	1.112	0.328	/
			50	24	Right Side	2510	0.263	3.44	22.50	22.33	1.040	0.273	/
			1	49	Bottom Side	2560	0.267	1.97	24.00	23.54	1.112	0.297	/
			50	24	Bottom Side	2510	0.285	-1.56	22.50	22.33	1.040	0.296	/
LTE Band 12	10M	QPSK	1	0	Front side	707.5	0.273	-2.24	24.00	23.51	1.119	**0.306**	**5**
			25	12	Front side	704	0.266	-0.96	22.50	22.17	1.079	0.287	/
			1	0	Back Side	707.5	0.250	-1.59	24.00	23.51	1.119	0.280	/
			25	12	Back Side	704	0.241	-3.17	22.50	22.17	1.079	0.260	/
			1	0	Left Side	707.5	0.263	-3.21	24.00	23.51	1.119	0.294	/
			25	12	Left Side	704	0.241	-0.74	22.50	22.17	1.079	0.260	/
			1	0	Right Side	707.5	0.220	2.06	24.00	23.51	1.119	0.246	/
			25	12	Right Side	704	0.210	3.29	22.50	22.17	1.079	0.227	/
			1	0	Bottom Side	707.5	0.169	-3.68	24.00	23.51	1.119	0.189	/
			25	12	Bottom Side	704	0.178	-1.33	22.50	22.17	1.079	0.192	/
LTE Band 17	10M	QPSK	1	0	Front side	709	0.039	0.69	24.00	23.67	1.079	**0.042**	**6**
			25	12	Front side	710	0.035	0.84	22.50	22.13	1.089	0.038	/
			1	0	Back Side	709	0.026	-3.50	24.00	23.67	1.079	0.028	/
			25	12	Back Side	710	0.024	2.81	22.50	22.13	1.089	0.026	/
			1	0	Left Side	709	0.036	-1.67	24.00	23.67	1.079	0.039	/
			25	12	Left Side	710	0.033	-3.16	22.50	22.13	1.089	0.036	/
			1	0	Right Side	709	0.024	-1.18	24.00	23.67	1.079	0.026	/
			25	12	Right Side	710	0.021	-3.20	22.50	22.13	1.089	0.023	/
			1	0	Bottom Side	709	0.031	0.88	24.00	23.67	1.079	0.033	/
			25	12	Bottom Side	710	0.033	3.01	22.50	22.13	1.089	0.036	/

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.
LTE Band 41	20M	QPSK	1	99	Front side	2549.5	0.119	0.73	24.00	23.64	1.086	**0.129**	**7**
			50	0	Front side	2680	0.102	-1.05	22.50	22.30	1.047	0.107	/
			1	99	Back Side	2549.5	0.110	0.45	24.00	23.64	1.086	0.120	/
			50	0	Back Side	2680	0.101	2.41	22.50	22.30	1.047	0.106	/
			1	99	Left Side	2549.5	0.084	-1.82	24.00	23.64	1.086	0.091	/
			50	0	Left Side	2680	0.096	0.51	22.50	22.30	1.047	0.101	/
			1	99	Right Side	2549.5	0.092	3.20	24.00	23.64	1.086	0.100	/
			50	0	Right Side	2680	0.086	-2.10	22.50	22.30	1.047	0.090	/
			1	99	Bottom Side	2549.5	0.082	-0.89	24.00	23.64	1.086	0.089	/
			50	0	Bottom Side	2680	0.075	-2.03	22.50	22.30	1.047	0.079	/

Band	Model	Test Position	Freq.	SAR (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	802.11 b	Front Side	2412	0.077	-3.37	14.00	13.94	1.014	**0.078**	**8**
		Back Side	2412	0.052	-0.23	14.00	13.94	1.014	0.053	/
		Right Side	2412	0.015	-2.76	14.00	13.94	1.014	0.015	/
		Bottom Side	2412	0.036	0.18	14.00	13.94	1.014	0.037	/
5.2GHz WLAN	802.11 n-HT20	Front Side	5200	0.216	0.47	10.50	10.20	1.072	**0.231**	**9**
		Back Side	5200	0.152	1.38	10.50	10.20	1.072	0.163	/
		Right Side	5200	0.141	1.41	10.50	10.20	1.072	0.151	/
		Bottom Side	5200	0.136	-3.50	10.50	10.20	1.072	0.146	/
5.3GHz WLAN	802.11 n-HT20	Front Side	5300	0.120	2.93	10.00	9.60	1.096	**0.132**	**10**
		Back Side	5300	0.105	0.99	10.00	9.60	1.096	0.115	/
		Right Side	5300	0.111	-0.54	10.00	9.60	1.096	0.122	/
		Bottom Side	5300	0.085	3.78	10.00	9.60	1.096	0.093	/
5.6GHz WLAN	802.11 n-HT40	Front Side	5670	0.170	0.97	10.00	9.89	1.026	**0.174**	**11**
		Back Side	5670	0.125	2.15	10.00	9.89	1.026	0.128	/
		Right Side	5670	0.104	-2.86	10.00	9.89	1.026	0.107	/
		Bottom Side	5670	0.120	-1.35	10.00	9.89	1.026	0.123	/
5.6GHz WLAN	802.11 n-HT20	Front Side	5785	0.185	1.52	10.50	10.20	1.072	**0.198**	**12**
		Back Side	5785	0.168	2.15	10.50	10.20	1.072	0.180	/
		Right Side	5785	0.133	-2.85	10.50	10.20	1.072	0.143	/
		Bottom Side	5785	0.140	-3.78	10.50	10.20	1.072	0.150	/

Note:

1. The test separation of all above table is 5mm.
2. Per KDB 447498 D04, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
   a. 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.
   b. Scaled SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
3. 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	2. LTE + 2.4/5GHz WLAN
	2. LTE + BT

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 <5mm, 5mm is used for excluded SAR calculation.
4. KDB 447498 / 4.3.2 (2) when standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion: a) (max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[√f (GHz) /x] W/kg for test separation distances≤ 50 mm; Where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR. b) 0.4W/Kg for 1-g SAR and 1.0W/Kg for 10-g SAR, when the separation distance is >50mm.

Estimated SAR		Maximum Average Power		Dis.	Frequency (GHz)	Stand alone SAR(1g) [W/kg]
		dBm	mW			
BT	Body	4	2.512	5	2.441	0.105

.

Simultaneous Mode	Position	Mode	Max. 1-g (W/kg)	1-g (W/kg)
LTE + 2.4G WLAN	Body	LTE	0.528	0.606
		2.4G WLAN	0.078	
LTE + Bluetooth	Body	LTE	0.528	0.633
		Bluetooth	0.105	
LTE + 5G WLAN	Body	LTE	0.528	0.760
		5G WLAN	0.231	

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
750MHz Dipole	MVG	SID750	SN 30/14 DIP0G750-331	2023.07.04	2026.07.03
835MHz Dipole	MVG	SID835	SN 30/14 DIP0G835-332	2023.07.04	2026.07.03
1800MHz Dipole	MVG	SID1800	5023-DIP1G800-747	2023.12.20	2026.12.19
1900MHz Dipole	MVG	SID1900	SN 30/14 DIP1G900-333	2023.09.14	2026.09.13
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	2024.09.18	2025.09.17
Dielectric Probe Kit	MVG	SCLMP	SN 32/14 OCPG67	2024.09.18	2025.09.17
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	2025-02-22	2026-02-21
Directional coupler	Xi'an Xingbo	XBOH-OA08-20dB	211123-4-3	2025-02-22	2026-02-21
Network Analyzer	Agilent	E5071C	MY46520378	2024-09-25	2025-09-26
Multi Meter	Keithley	Multi Meter 2000	4050073	2024-09-25	2025-09-26
Signal Generator	Agilent	N5182A	MY50140530	2024-09-25	2025-09-26
Wireless Communication Test Set	Agilent	8960-E5515C	MY48360751	2025-02-22	2026-02-21
Wireless Communication Test Set	R&S	CMW500	156324	2024-09-25	2025-09-26
Power Amplifier	DESAY	ZHL-42W	9638	2024-09-25	2025-09-26
Power Meter	R&S	NRP	100510	2024-09-25	2025-09-26
Power Sensor	R&S	NRP-Z11	101919	2024-09-25	2025-09-26
Power Sensor	Keysight	U2021XA	MY56280002	2024-09-25	2025-09-26
Temperature hygrometer	SuWei	SW-108	N/A	2024.10.15	2025.10.14
Thermograph	Elitech	RC-4	S/N EF7176501537	2024.10.15	2025.10.14

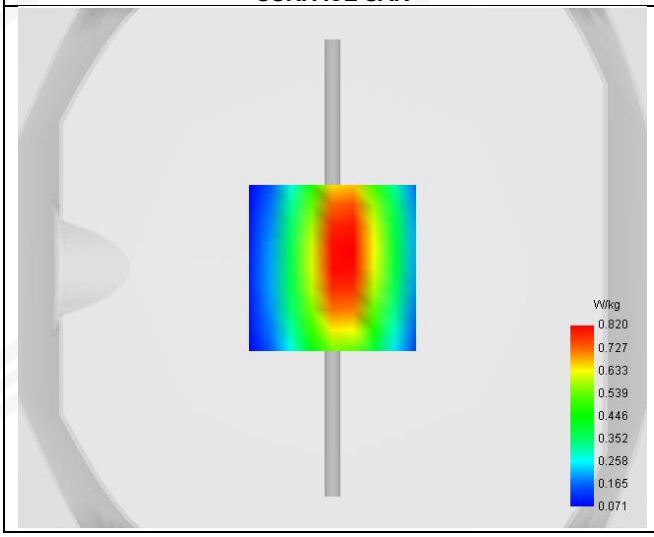
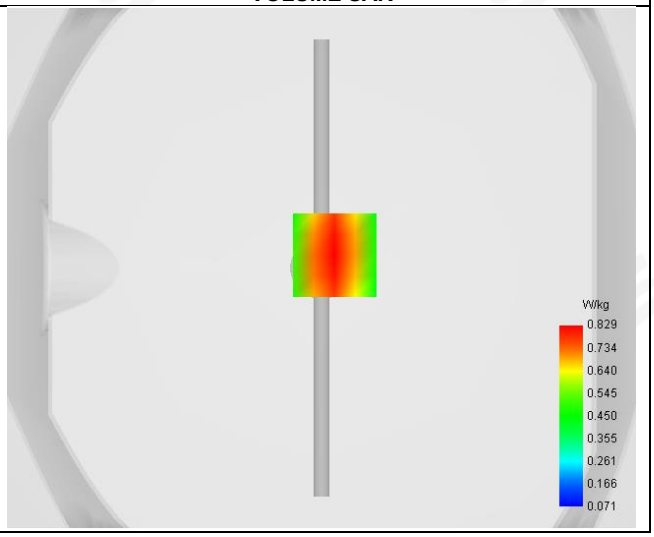
Appendix A. System Validation Plots

System Performance Check Data (750MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm, dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2025-08-18

Experimental conditions.

Device Position	Validation plane
Band	750 MHz
Channels	-
Signal	CW
Frequency (MHz)	750
Relative permittivity	42.61
Conductivity (S/m)	0.91
Probe	SN 08/21 EPGO352
ConvF	1.56
Crest factor:	1:1

SURFACE SAR	VOLUME SAR
	

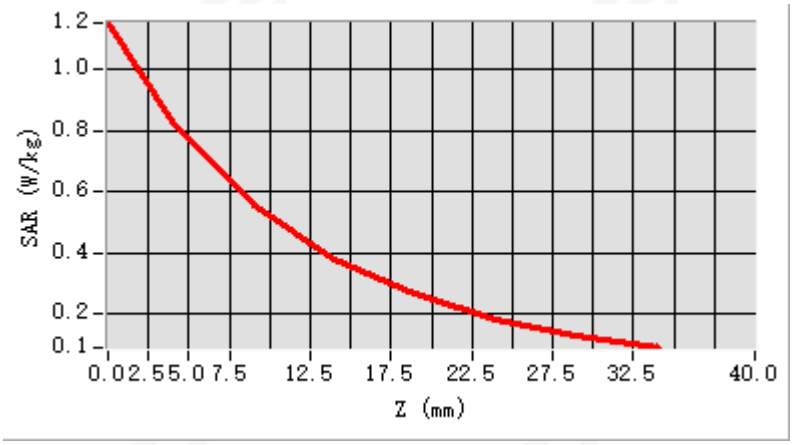
Maximum location: X=5.00, Y=5.00 ; SAR Peak: 1.15 W/kg

D. SAR 1g & 10g

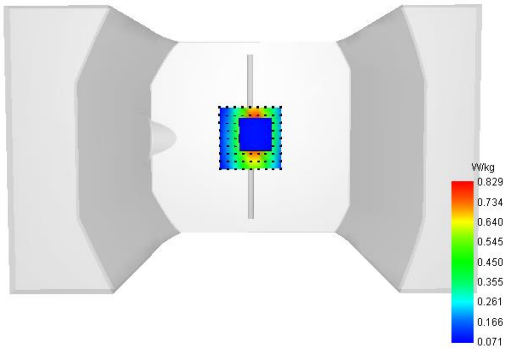
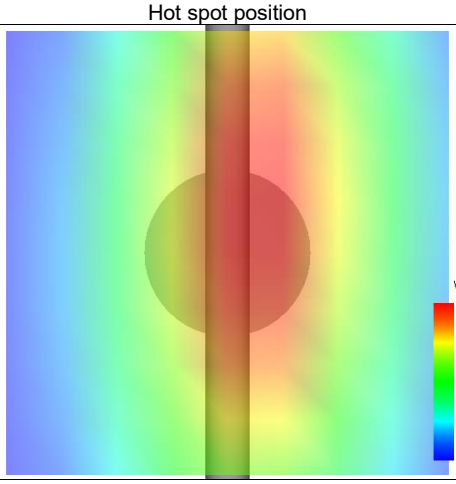
SAR 10g (W/Kg)	0.533
SAR 1g (W/Kg)	0.848
Horizontal validation criteria: minimum distance (mm)	12.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	67.1892104

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.151	0.829	0.557	0.382	0.268	0.185	0.128



F. 3D Image

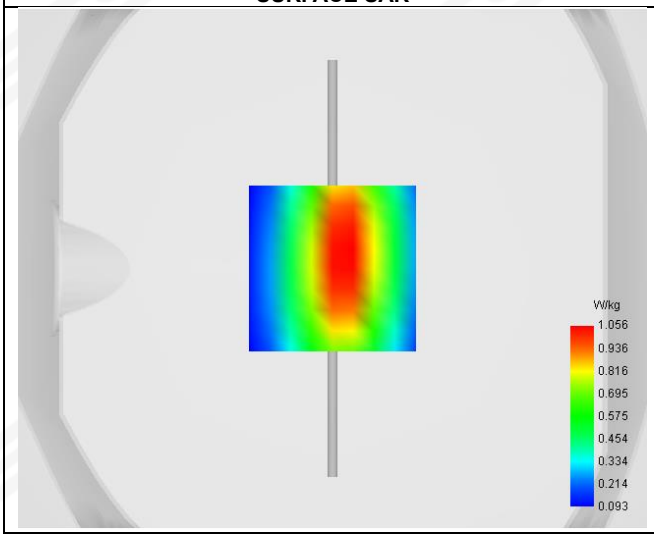
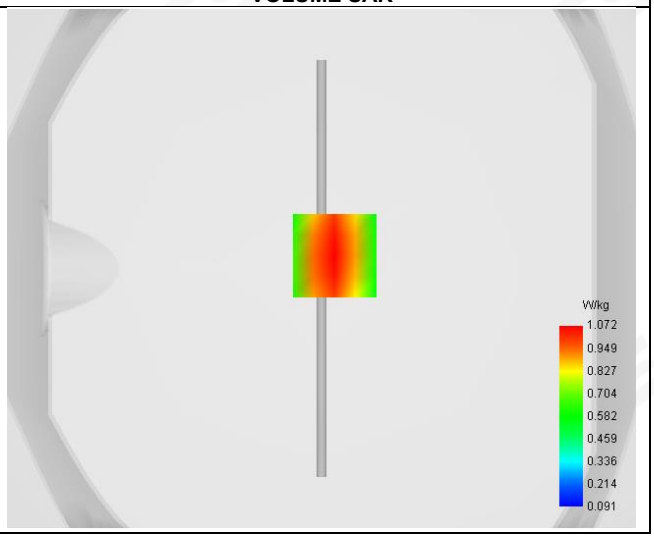
3D screen shot	Hot spot position
	

System Performance Check Data (835MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm, dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2025-08-18

Experimental conditions.

Device Position	Validation plane
Band	835 MHz
Channels	-
Signal	CW
Frequency (MHz)	835
Relative permittivity	41.79
Conductivity (S/m)	0.93
Probe	SN 08/21 EPGO352
ConvF	1.44
Crest factor:	1:1

SURFACE SAR	VOLUME SAR
	

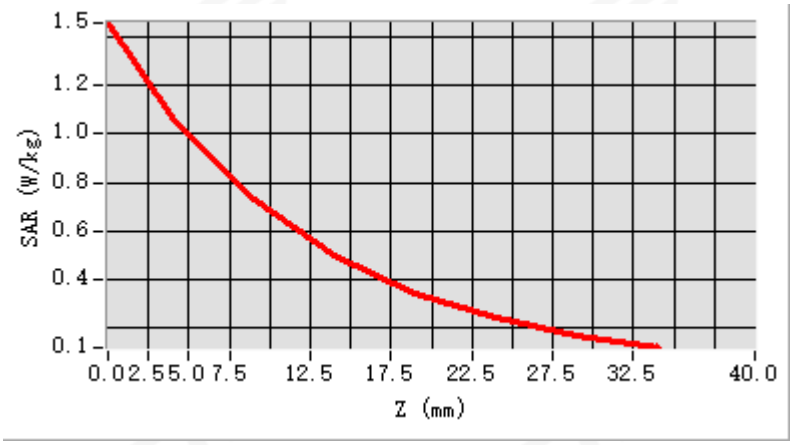
Maximum location: X=5.00, Y=5.00 ; SAR Peak: 1.46 W/kg

D. SAR 1g & 10g

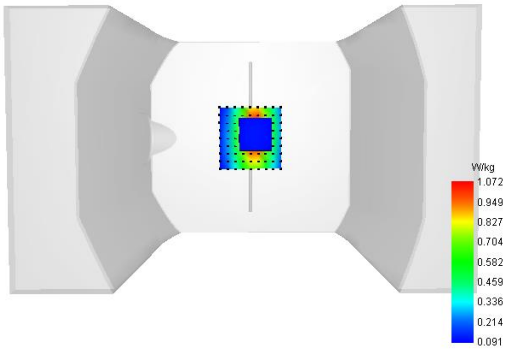
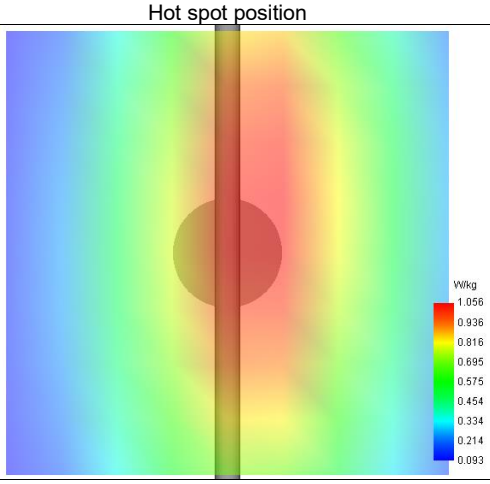
SAR 10g (W/Kg)	0.597
SAR 1g (W/Kg)	0.921
Horizontal validation criteria: minimum distance (mm)	11.245211
Vertical validation criteria: SAR ratio M2/M1 (%)	66.501405

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.459	1.072	0.728	0.501	0.346	0.240	0.168



F. 3D Image

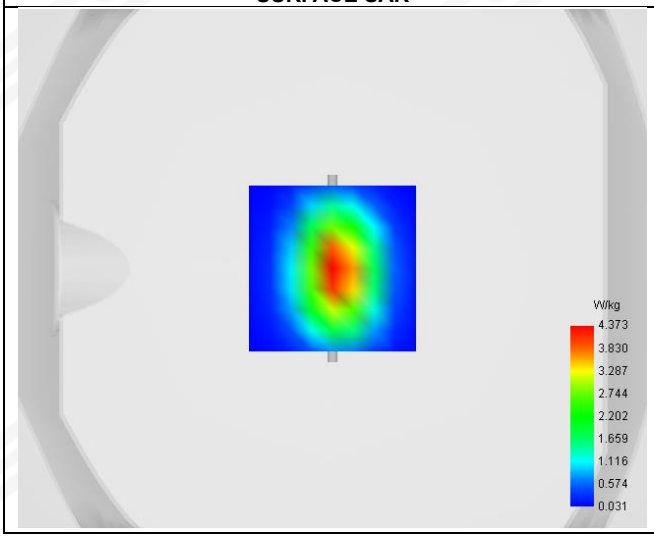
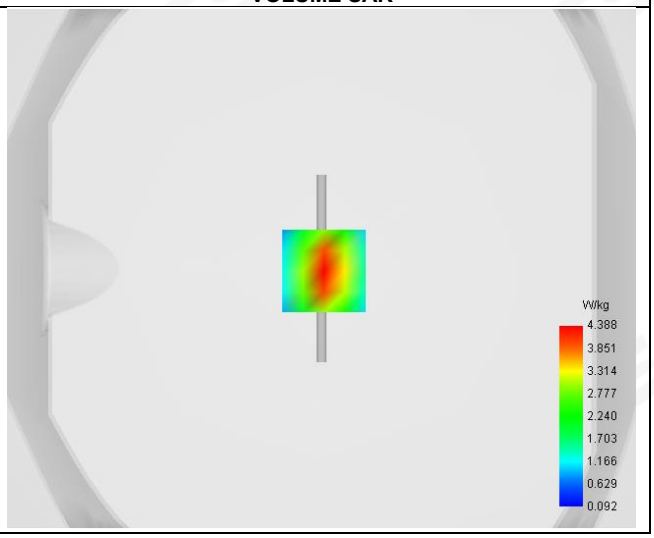
3D screen shot	Hot spot position
	

System Performance Check Data (1800MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm, dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2025-08-12

Experimental conditions.

Device Position	Validation plane
Band	1800 MHz
Channels	-
Signal	CW
Frequency (MHz)	1800
Relative permittivity	40.77
Conductivity (S/m)	1.45
Probe	SN 08/21 EPGO352
ConvF	1.58
Crest factor:	1:1

SURFACE SAR	VOLUME SAR
	

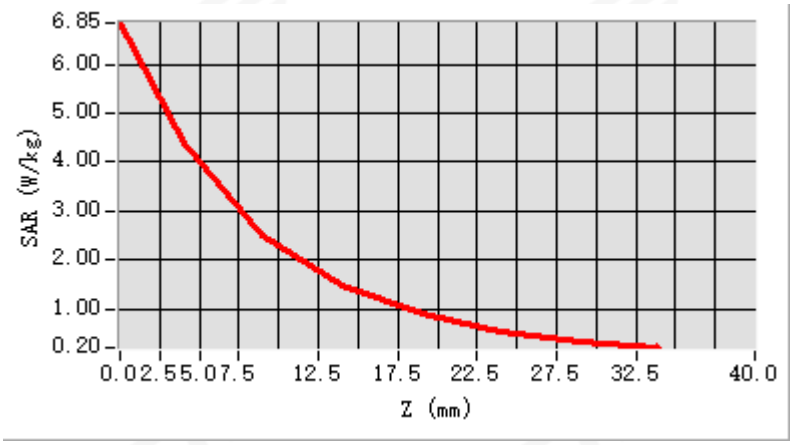
Maximum location: X=1.00, Y=-1.00 ; SAR Peak: 6.80 W/kg

D. SAR 1g & 10g

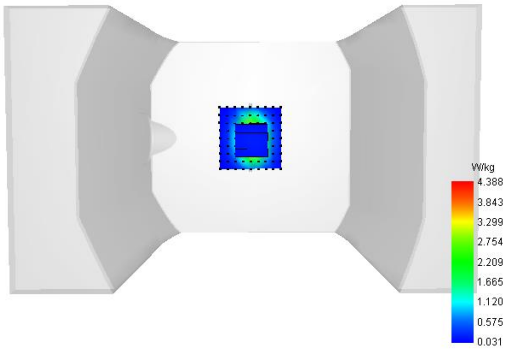
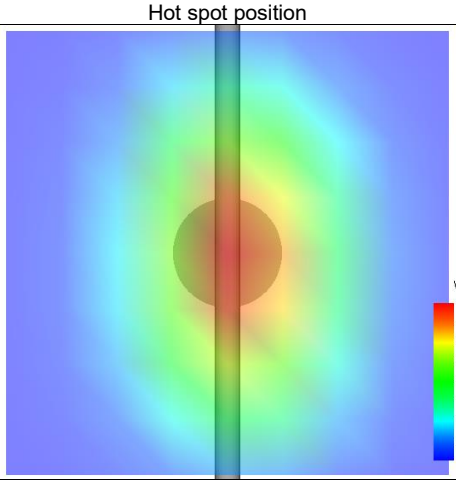
SAR 10g (W/Kg)	1.939
SAR 1g (W/Kg)	3.737
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	56.745586

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.852	4.388	2.490	1.466	0.888	0.524	0.310



F. 3D Image

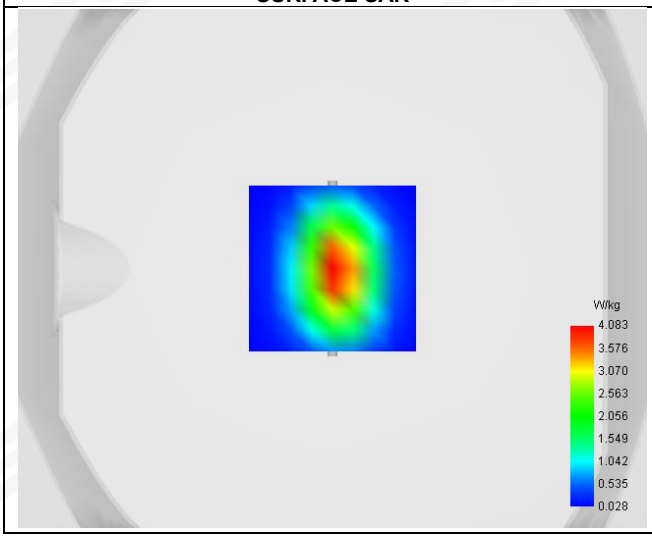
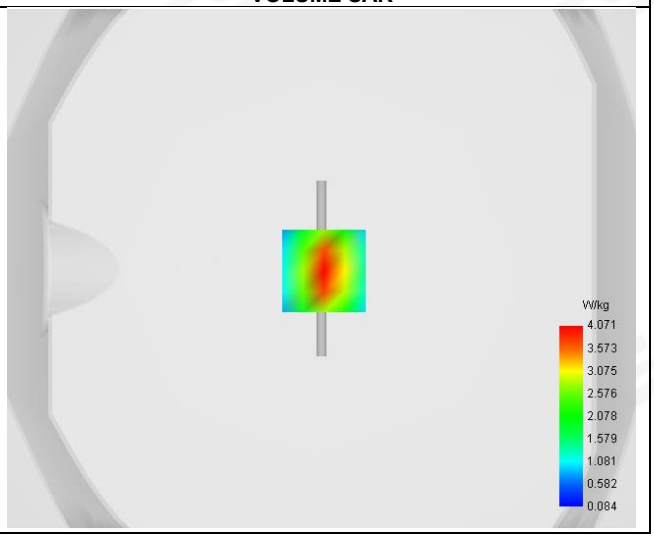
3D screen shot	Hot spot position
	

System Performance Check Data (1900MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm, dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2025-08-12

Experimental conditions.

Device Position	Validation plane
Band	1900 MHz
Channels	-
Signal	CW
Frequency (MHz)	1900
Relative permittivity	40.79
Conductivity (S/m)	1.46
Probe	SN 08/21 EPGO352
ConvF	1.72
Crest factor:	1:1

SURFACE SAR	VOLUME SAR
	

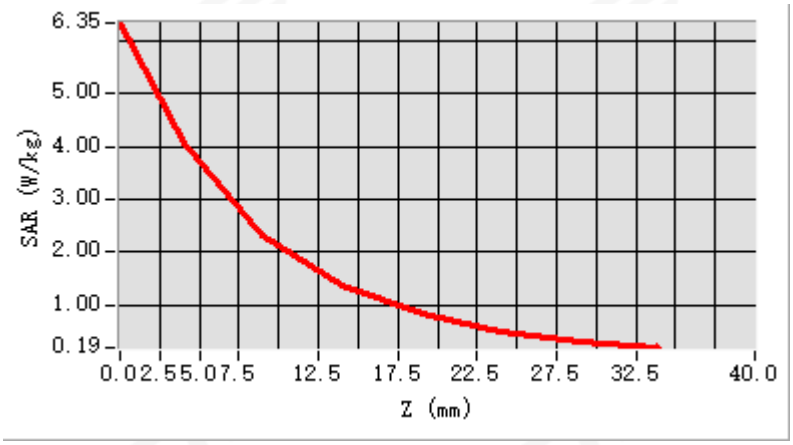
Maximum location: X=1.00, Y=-1.00 ; SAR Peak: 6.29 W/kg

D. SAR 1g & 10g

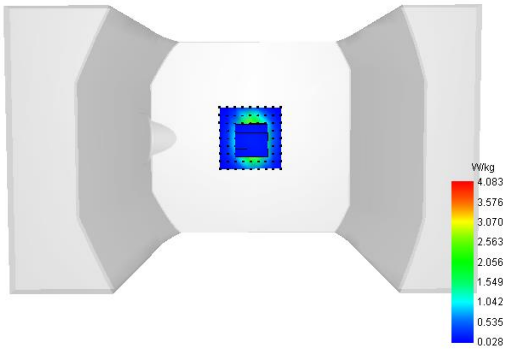
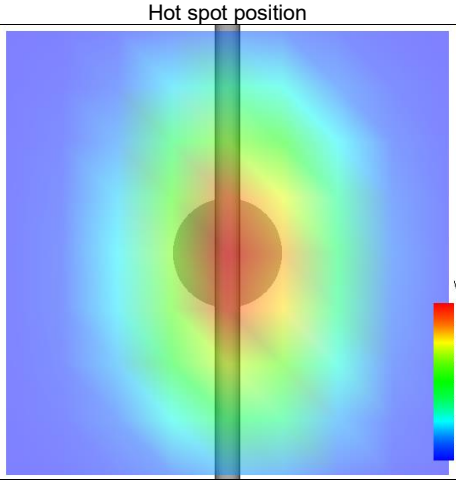
SAR 10g (W/Kg)	1.994
SAR 1g (W/Kg)	3.869
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	56.851180

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.346	4.071	2.315	1.367	0.827	0.489	0.289



F. 3D Image

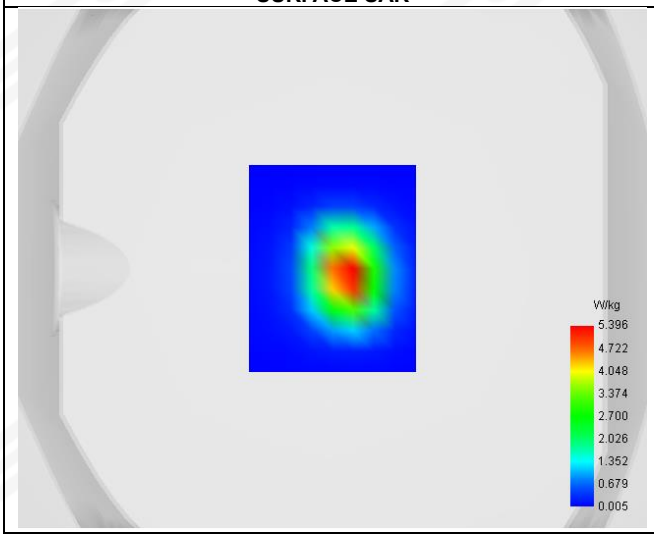
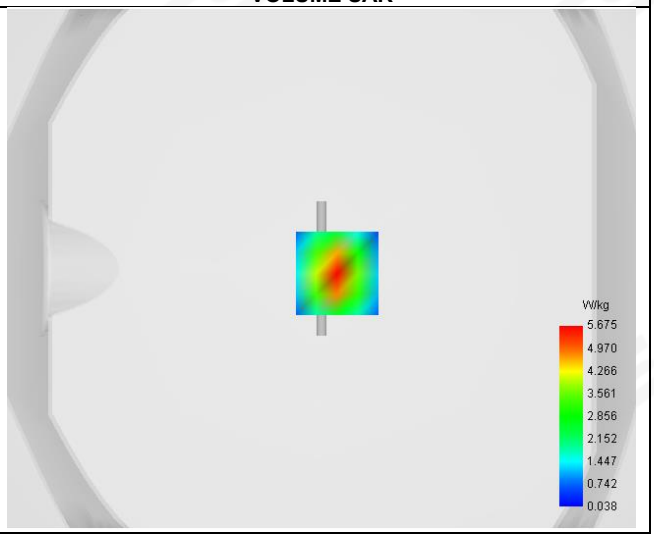
3D screen shot	Hot spot position
	

System Performance Check Data (2450MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm, dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2025-08-20

Experimental conditions.

Device Position	Validation plane
Band	2450 MHz
Channels	-
Signal	CW
Frequency (MHz)	2450
Relative permittivity	39.50
Conductivity (S/m)	1.75
Probe	SN 08/21 EPGO352
ConvF	1.80
Crest factor:	1:1

SURFACE SAR	VOLUME SAR
	

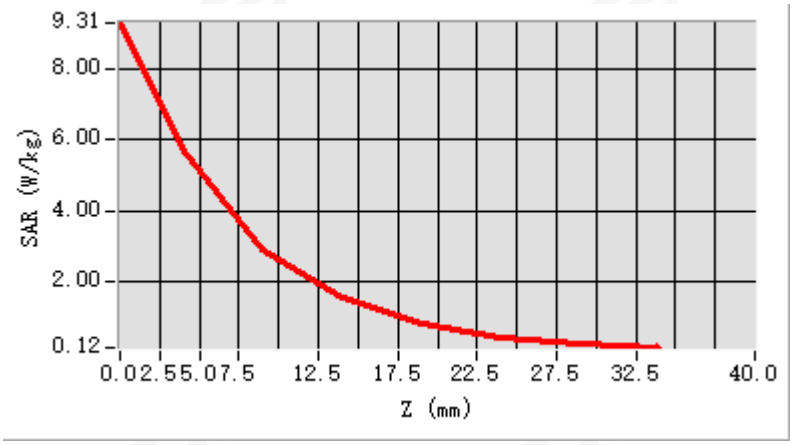
Maximum location: X=6.00, Y=-2.00 ; SAR Peak: 9.22 W/kg

D. SAR 1g & 10g

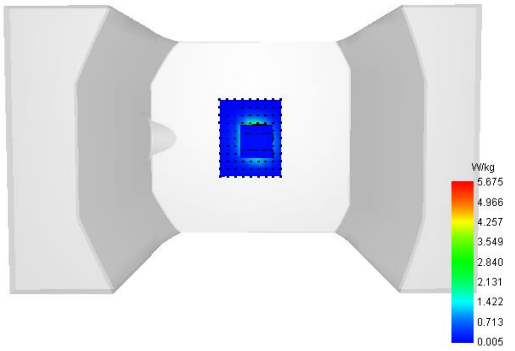
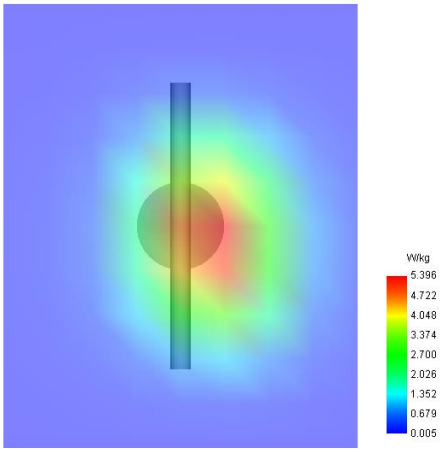
SAR 10g (W/Kg)	2.343
SAR 1g (W/Kg)	5.460
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	51.487372

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	9.312	5.675	2.922	1.540	0.804	0.429	0.226



F. 3D Image

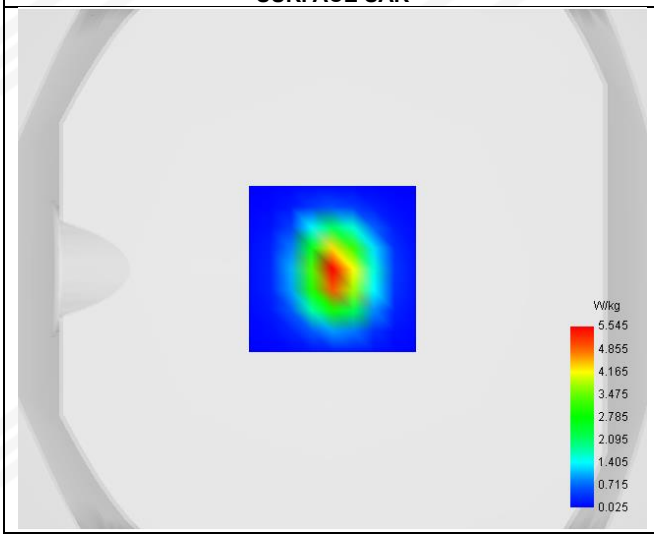
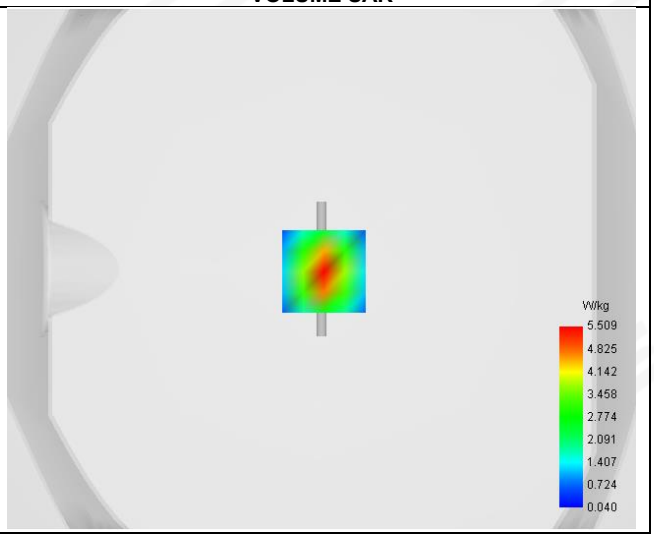
3D screen shot	Hot spot position
	

System Performance Check Data (2600MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm, dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2025-08-20

Experimental conditions.

Device Position	Validation plane
Band	2600 MHz
Channels	-
Signal	CW
Frequency (MHz)	2450
Relative permittivity	39.98
Conductivity (S/m)	1.92
Probe	SN 08/21 EPGO352
ConvF	1.74
Crest factor:	1:1

SURFACE SAR	VOLUME SAR
	

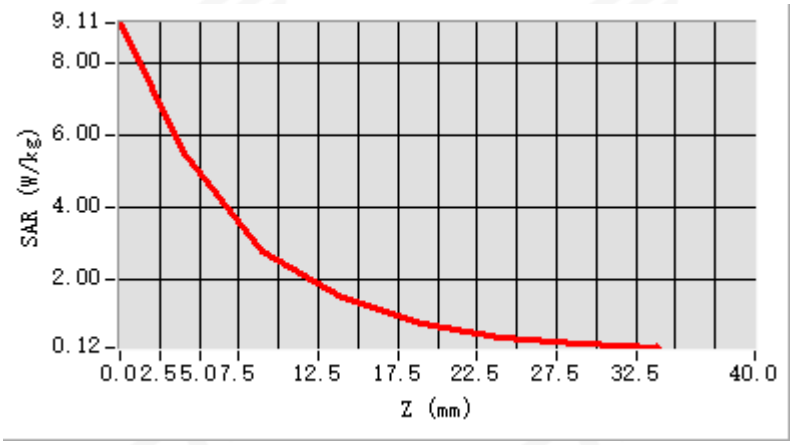
Maximum location: X=1.00, Y=-1.00 ; SAR Peak: 9.02 W/kg

D. SAR 1g & 10g

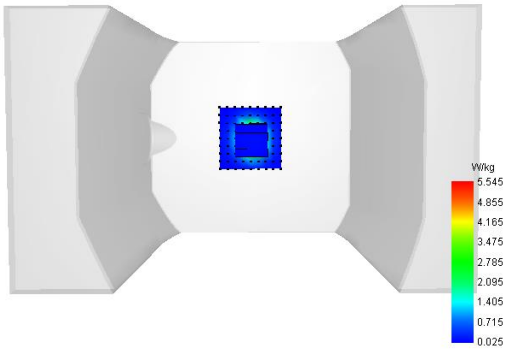
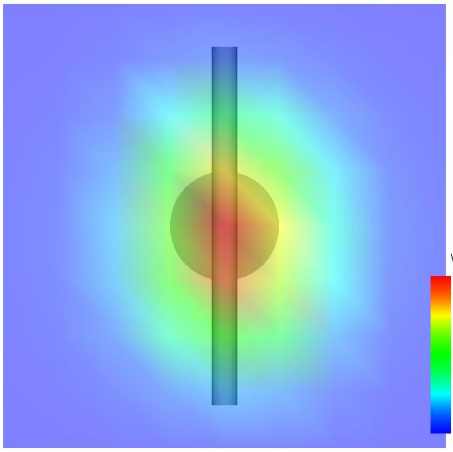
SAR 10g (W/Kg)	2.300
SAR 1g (W/Kg)	5.580
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	51.056495

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	9.114	5.509	2.813	1.509	0.793	0.417	0.219



F. 3D Image

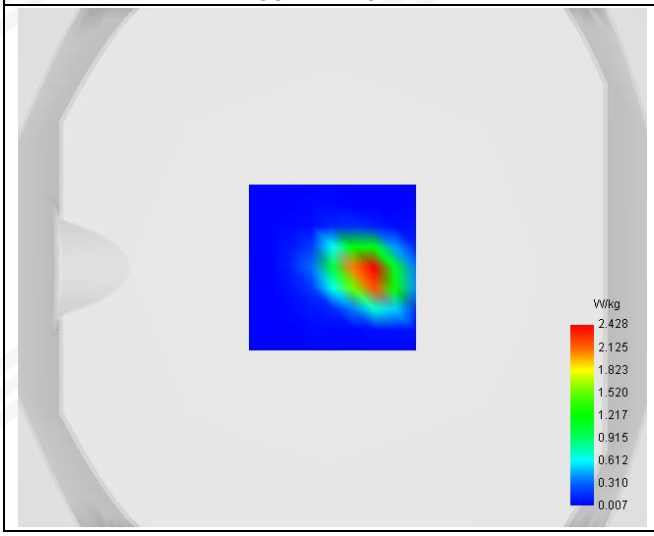
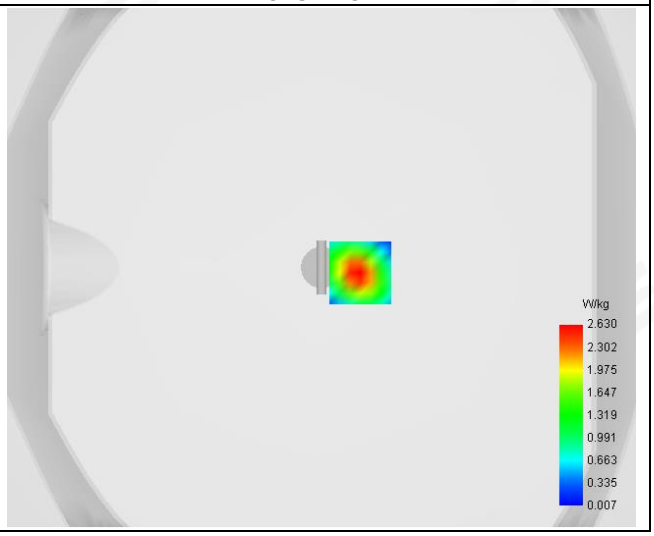
3D screen shot	Hot spot position
	

System Performance Check Data (5200MHz)

Type: Dipole measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm
Date of measurement: 2025-08-22

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	5200MHz
Channels	Middle
Signal	CW
Frequency (MHz)	5200
Relative permittivity	36.65
Conductivity (S/m)	4.61
Probe	SN 08/21 EPGO352
ConvF	1.33
Crest factor:	1:1

SURFACE SAR	VOLUME SAR
	

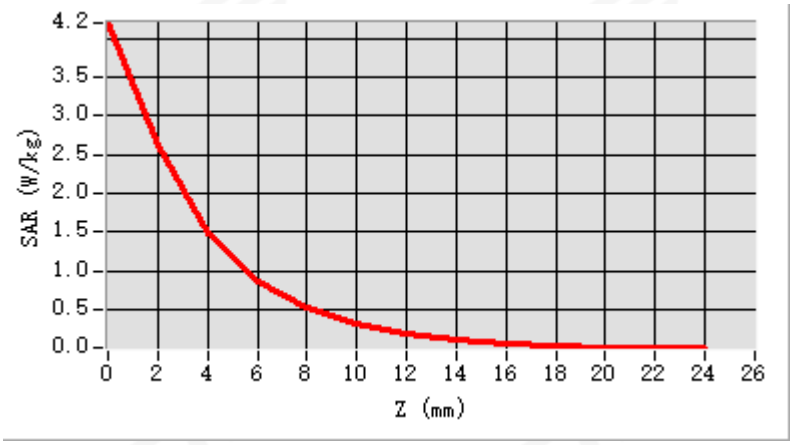
Maximum location: X=15.00, Y=-2.00 ; SAR Peak: 4.53 W/kg

D. SAR 1g & 10g

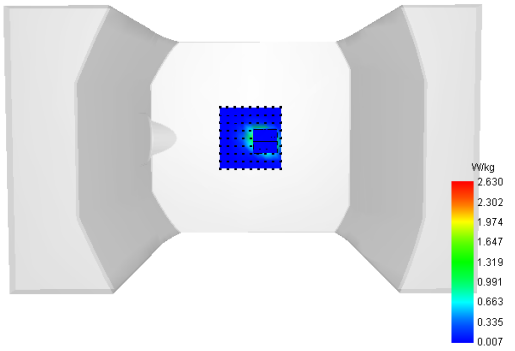
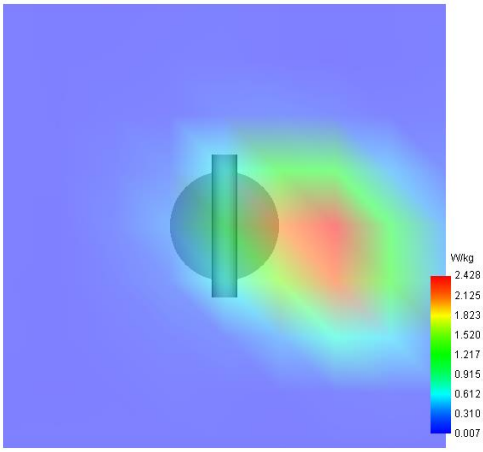
SAR 10g (W/Kg)	0.533
SAR 1g (W/Kg)	1.576
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	56.133436

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)	4.197	2.630	1.477	0.857	0.544	0.325	0.194	0.116	0.069	0.041	0.025	0.015



F. 3D Image

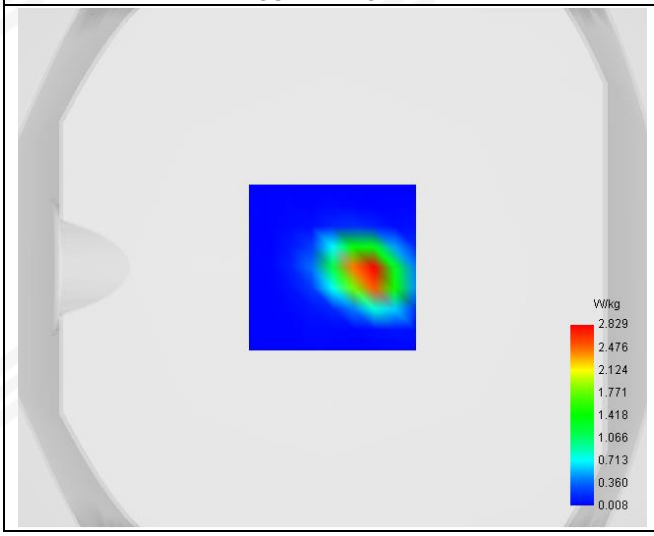
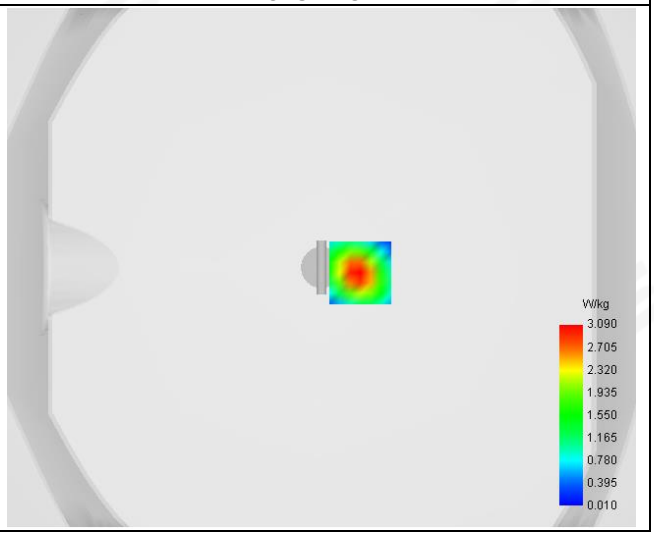
3D screen shot	Hot spot position
	

System Performance Check Data (5400MHz)

Type: Dipole measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm
Date of measurement: 2025-08-22

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	5400MHz
Channels	Middle
Signal	CW
Frequency (MHz)	5400
Relative permittivity	36.53
Conductivity (S/m)	4.84
Probe	SN 08/21 EPGO352
ConvF	1.31
Crest factor:	1:1

SURFACE SAR	VOLUME SAR
	

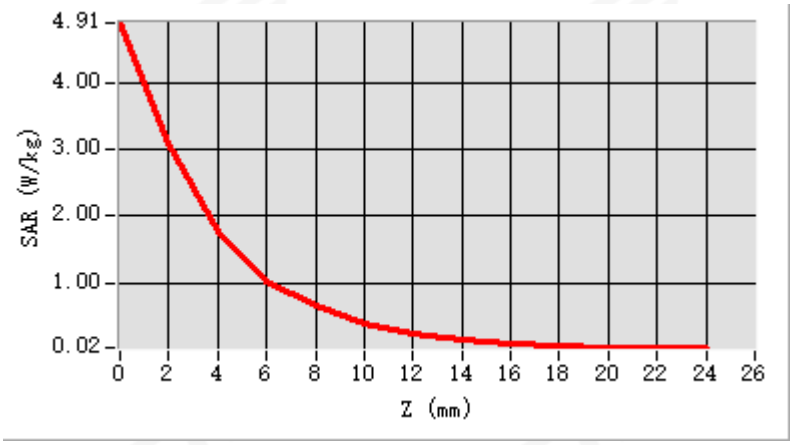
Maximum location: X=15.00, Y=-2.00 ; SAR Peak: 5.23 W/kg

D. SAR 1g & 10g

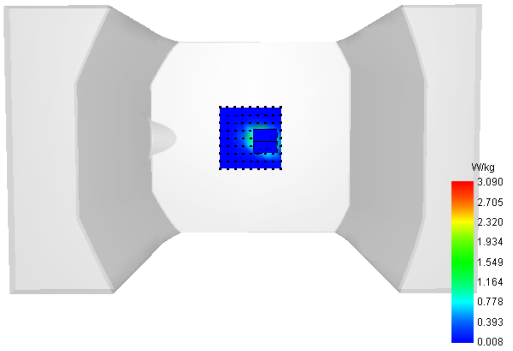
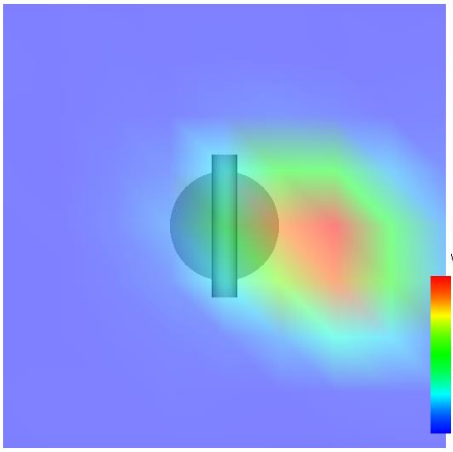
SAR 10g (W/Kg)	0.581
SAR 1g (W/Kg)	1.622
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	57.019312

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)	4.912	3.090	1.762	1.018	0.650	0.390	0.234	0.141	0.084	0.051	0.030	0.018



F. 3D Image

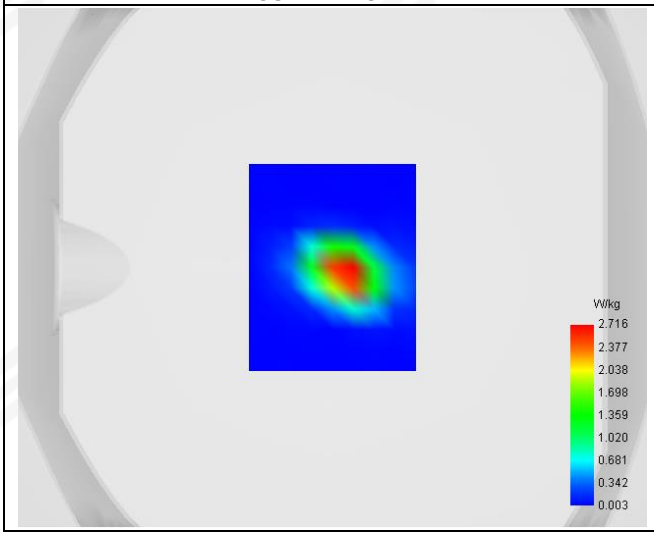
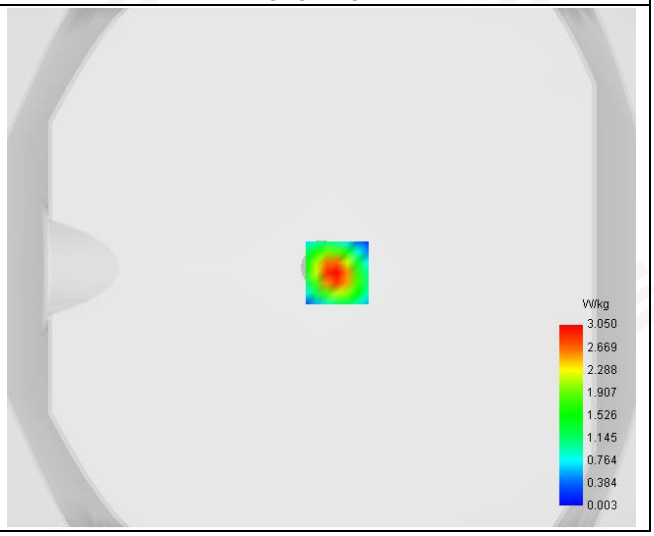
3D screen shot	Hot spot position
	

System Performance Check Data (5600MHz)

Type: Dipole measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm
Date of measurement: 2025-08-23

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	5600MHz
Channels	Middle
Signal	CW
Frequency (MHz)	5600
Relative permittivity	35.88
Conductivity (S/m)	5.07
Probe	SN 08/21 EPGO352
ConvF	1.24
Crest factor:	1:1

SURFACE SAR	VOLUME SAR
	

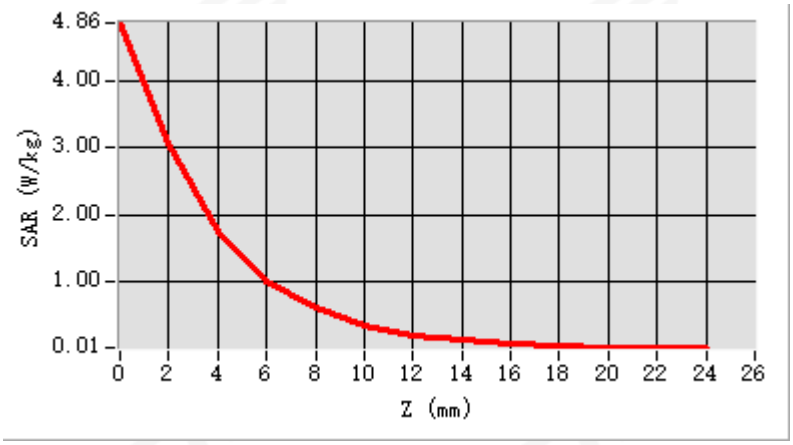
Maximum location: X=6.00, Y=-2.00 ; SAR Peak: 5.05 W/kg

D. SAR 1g & 10g

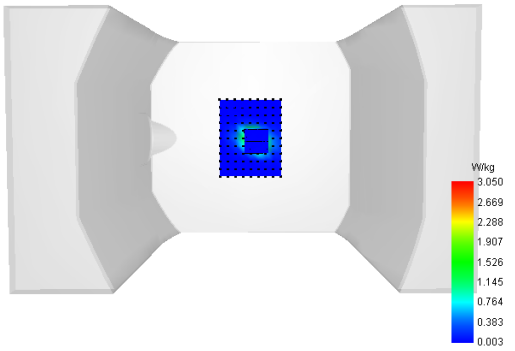
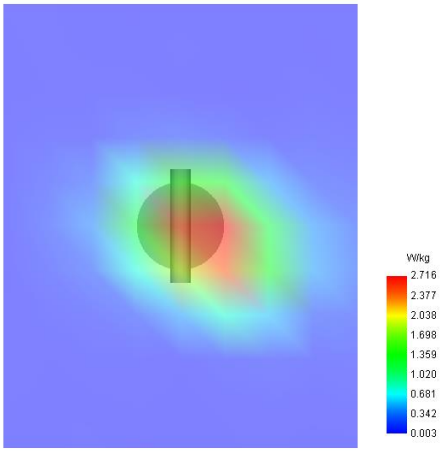
SAR 10g (W/Kg)	0.605
SAR 1g (W/Kg)	1.738
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	57.307136

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)	4.856	3.050	1.748	1.003	0.598	0.349	0.203	0.119	0.069	0.040	0.023	0.014



F. 3D Image

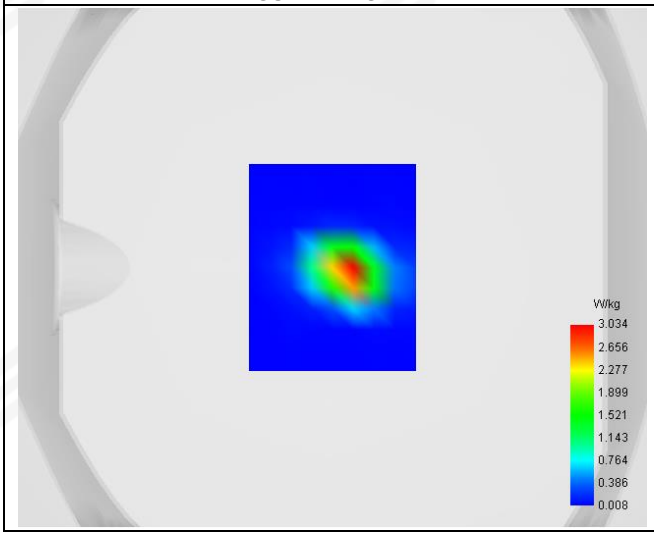
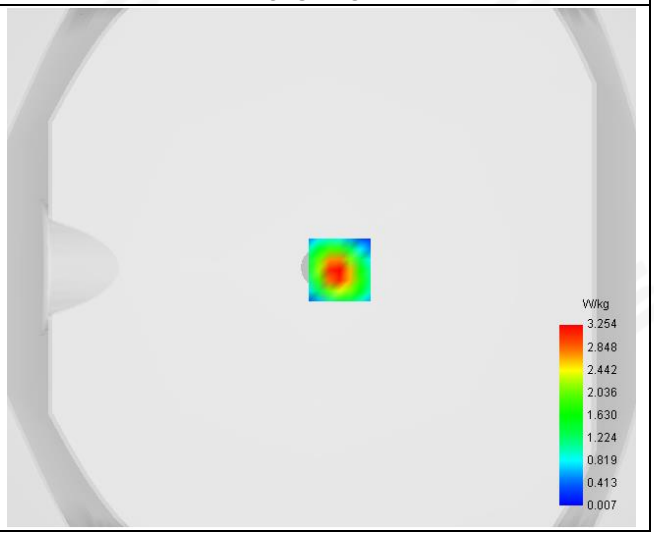
3D screen shot	Hot spot position
	

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: 2025-08-23

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	5800MHz
Channels	Middle
Signal	CW
Frequency (MHz)	5800
Relative permittivity	36.84
Conductivity (S/m)	5.26
Probe	SN 08/21 EPGO352
ConvF	1.35
Crest factor:	1:1

SURFACE SAR	VOLUME SAR
	

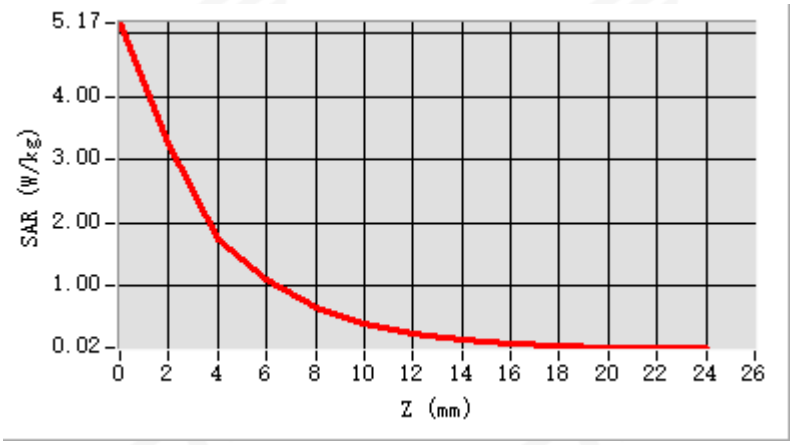
Maximum location: X=7.00, Y=-1.00 ; SAR Peak: 5.87 W/kg

D. SAR 1g & 10g

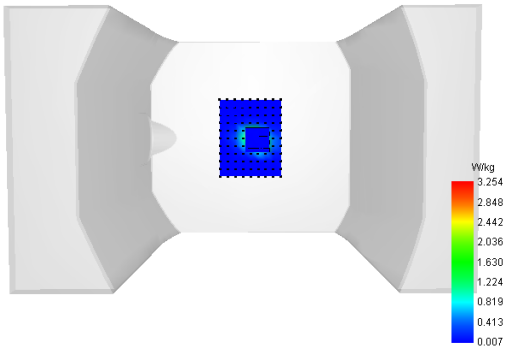
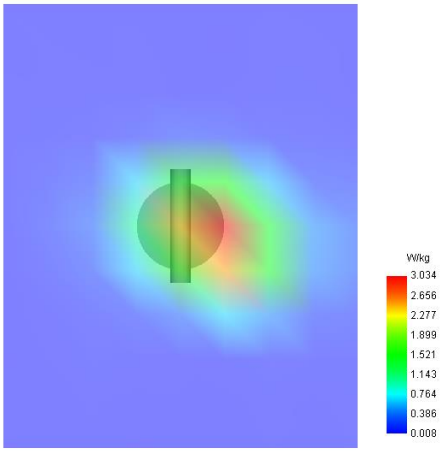
SAR 10g (W/Kg)	0.596
SAR 1g (W/Kg)	1.816
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	53.234795

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)	5.167	3.254	1.732	1.111	0.661	0.394	0.234	0.139	0.083	0.049	0.029	0.017



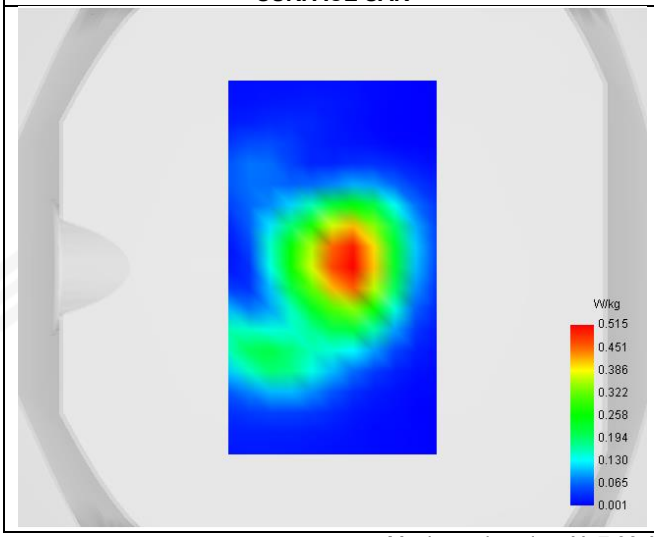
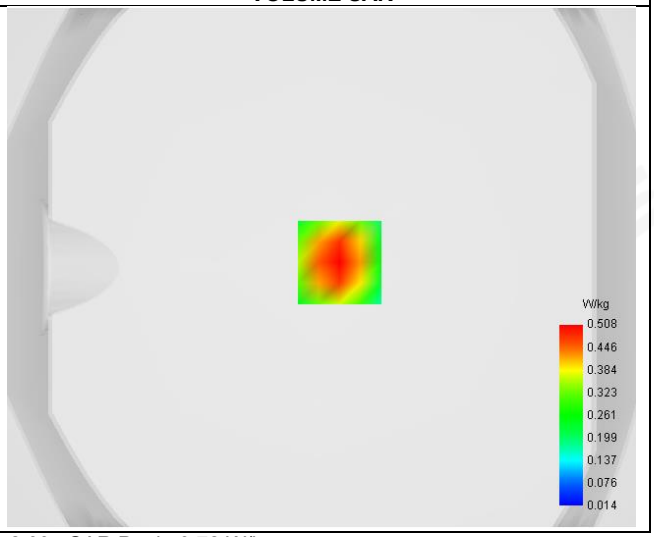
F. 3D Image

3D screen shot	Hot spot position
	

Appendix B. SAR Test Plots

Plot 1: DUT: AI Translator Earbuds; EUT Model: A9

Test Date	2025-08-12
ConvF	1.72
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Front side
Band	LTE band 2
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1880
Relative permittivity (real part)	40.65
Conductivity (S/m)	1.45

SURFACE SAR	VOLUME SAR
	

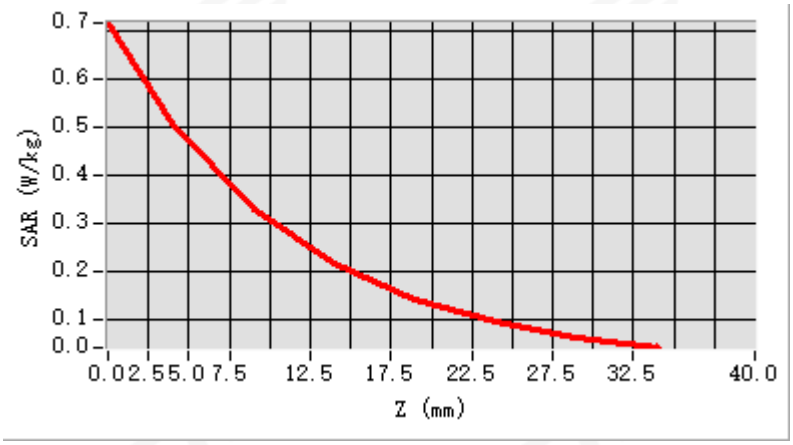
Maximum location: X=7.00, Y=2.00 ; SAR Peak: 0.72 W/kg

D. SAR 1g & 10g

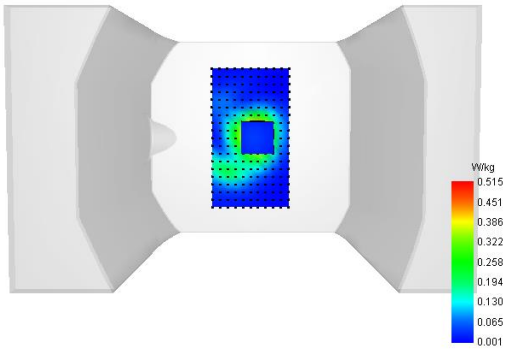
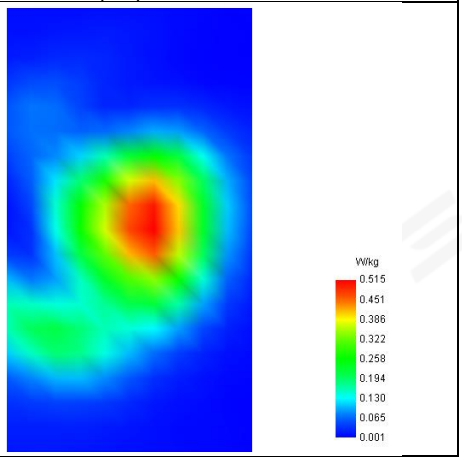
SAR 10g (W/Kg)	0.291
SAR 1g (W/Kg)	0.483
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	64.736751

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.717	0.508	0.329	0.218	0.143	0.094	0.062

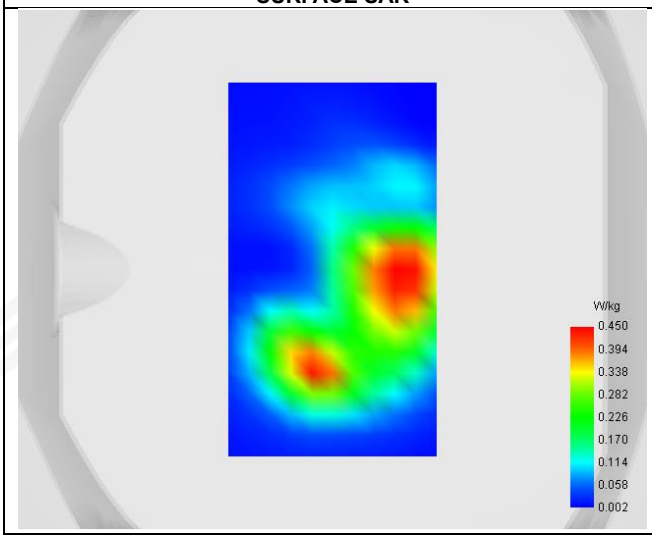
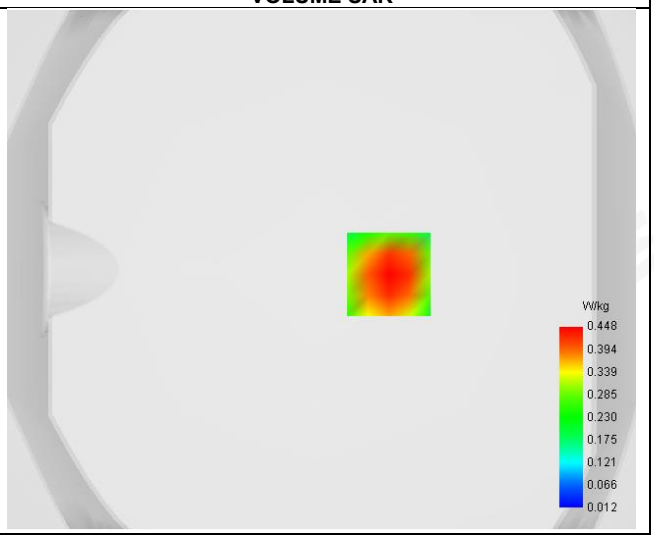


F. 3D Image

3D screen shot	Hot spot position
	

Plot 2: DUT: AI Translator Earbuds; EUT Model: A9

Test Date	2025-08-12
ConvF	1.58
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Front side
Band	LTE band 4
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1732.5
Relative permittivity (real part)	41.18
Conductivity (S/m)	1.40

SURFACE SAR	VOLUME SAR
	

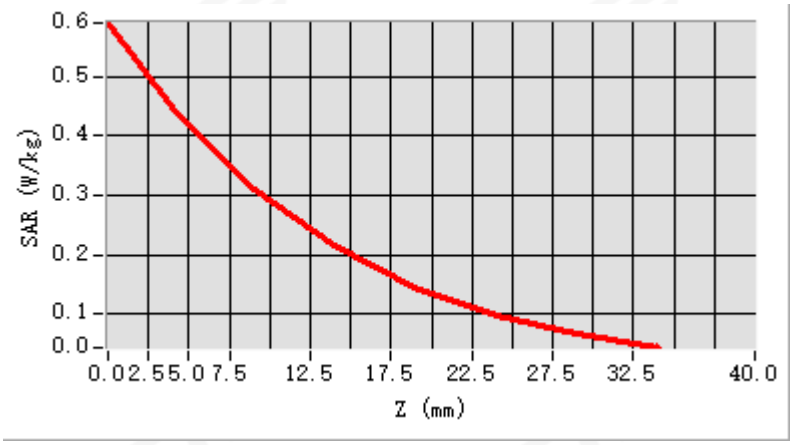
Maximum location: X=26.00, Y=-2.00 ; SAR Peak: 0.61 W/kg

D. SAR 1g & 10g

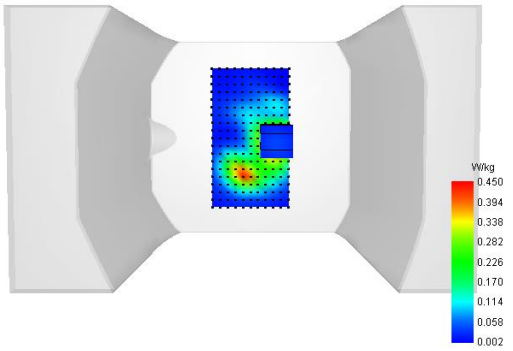
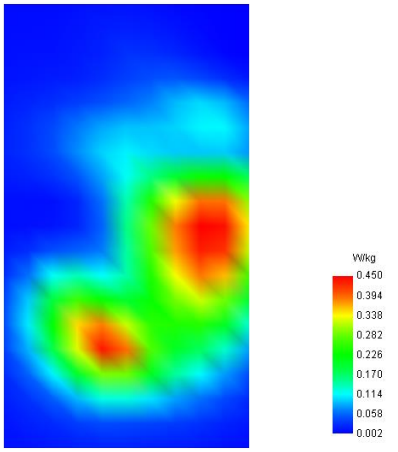
SAR 10g (W/Kg)	0.266
SAR 1g (W/Kg)	0.427
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	69.376240

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.590	0.448	0.311	0.216	0.144	0.098	0.067

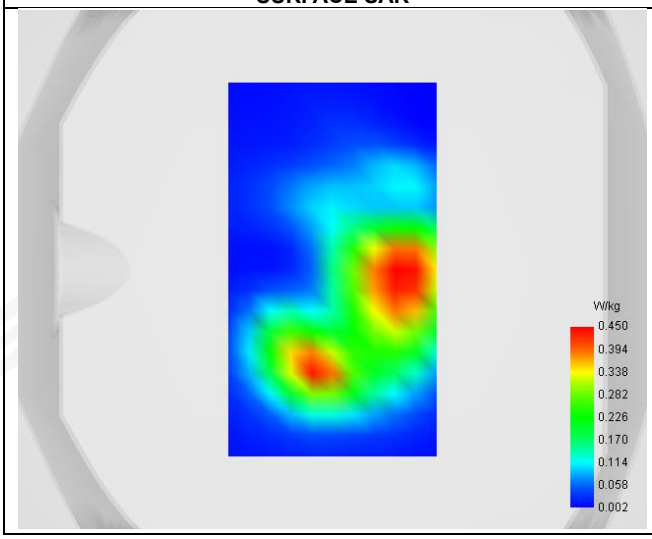
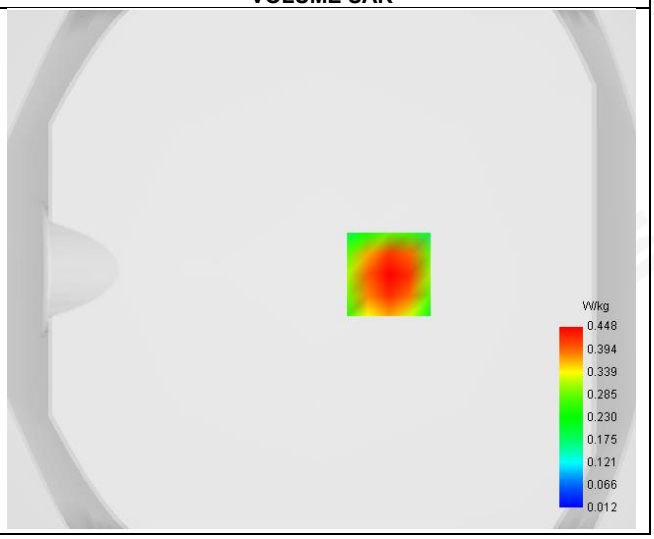


F. 3D Image

3D screen shot	Hot spot position
	

Plot 3: DUT: AI Translator Earbuds; EUT Model: A9

Test Date	2025-08-18
ConvF	1.44
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Front side
Band	LTE band 5
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	829
Relative permittivity (real part)	41.11
Conductivity (S/m)	0.89

SURFACE SAR	VOLUME SAR
	

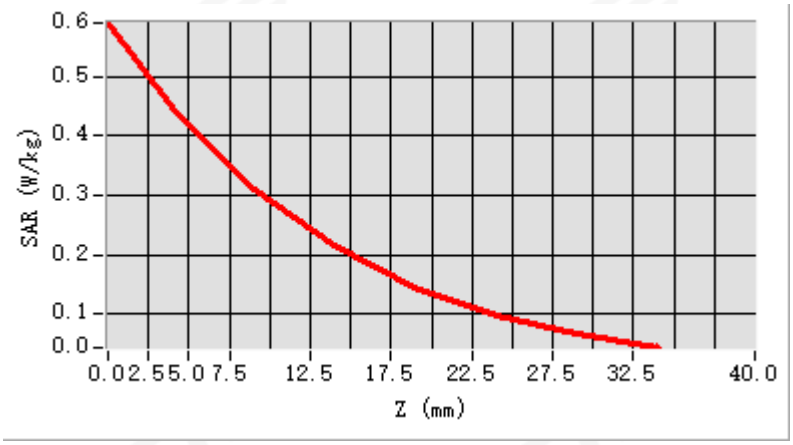
Maximum location: X=26.00, Y=-2.00 ; SAR Peak: 0.61 W/kg

D. SAR 1g & 10g

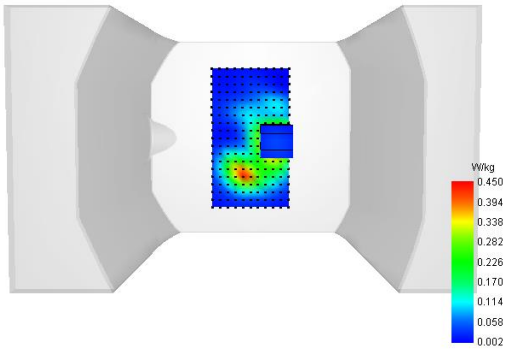
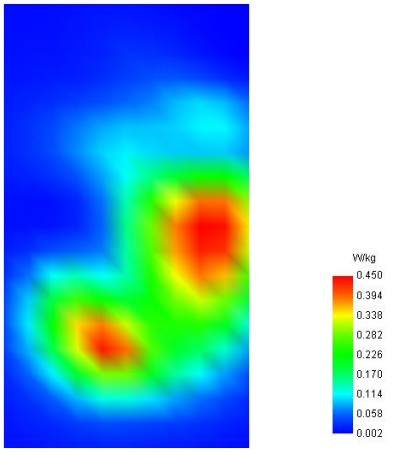
SAR 10g (W/Kg)	0.169
SAR 1g (W/Kg)	0.295
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	69.376240

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.590	0.448	0.311	0.216	0.144	0.098	0.067

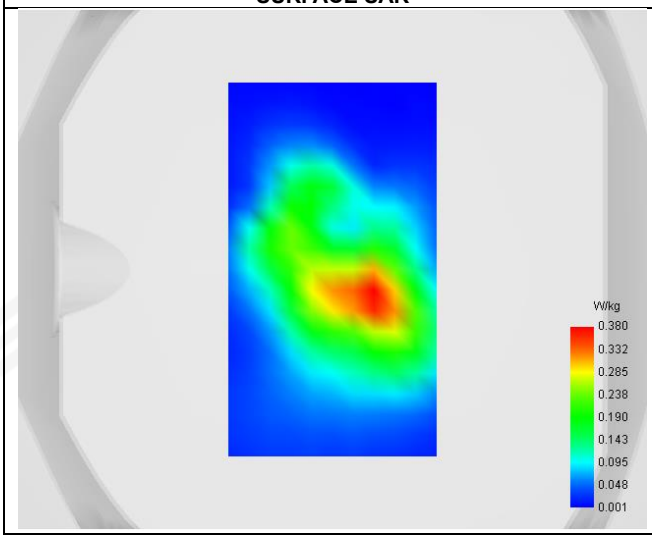
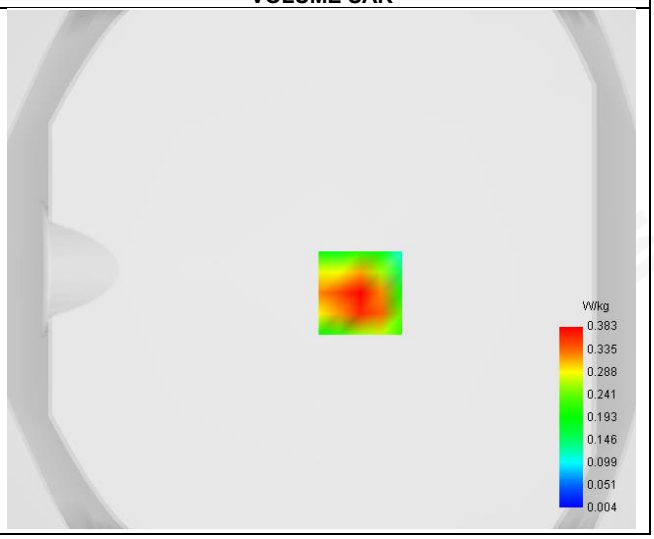


F. 3D Image

3D screen shot	Hot spot position
	

Plot 4: DUT: AI Translator Earbuds; EUT Model: A9

Test Date	2025-08-20
ConvF	1.74
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Front side
Band	LTE band 7
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2560
Relative permittivity (real part)	40.31
Conductivity (S/m)	1.92

SURFACE SAR	VOLUME SAR
	

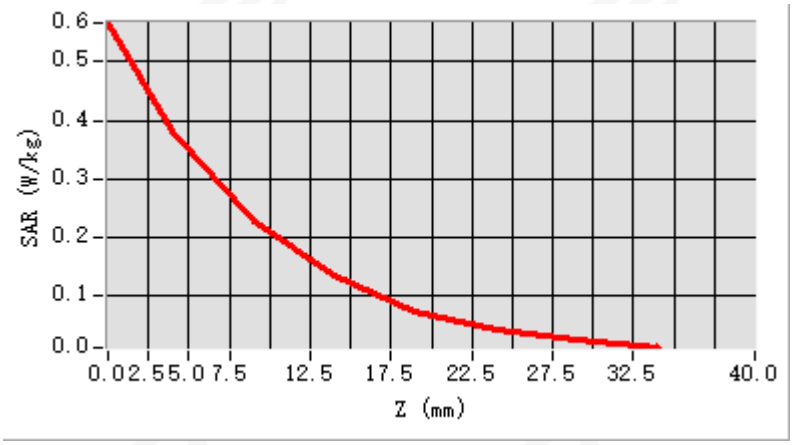
Maximum location: X=15.00, Y=-9.00 ; SAR Peak: 0.58 W/kg

D. SAR 1g & 10g

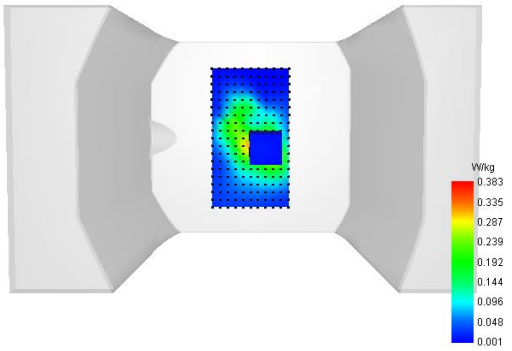
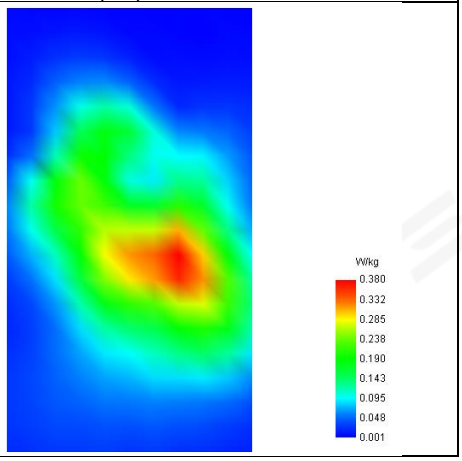
SAR 10g (W/Kg)	0.202
SAR 1g (W/Kg)	0.364
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	59.220037

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.566	0.383	0.227	0.135	0.076	0.044	0.026

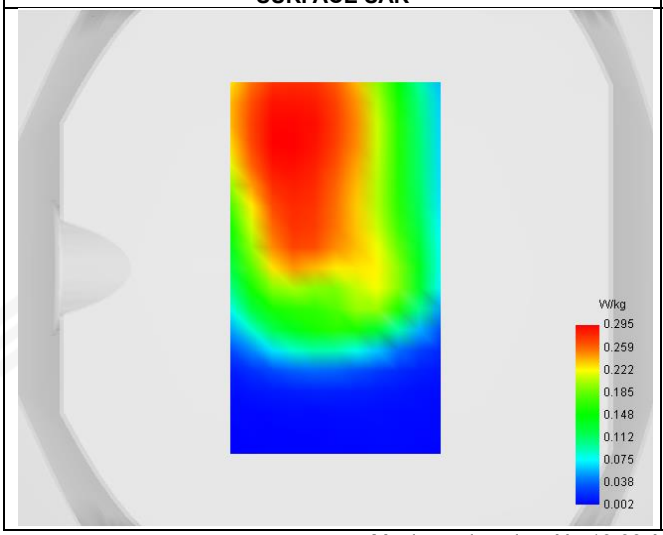
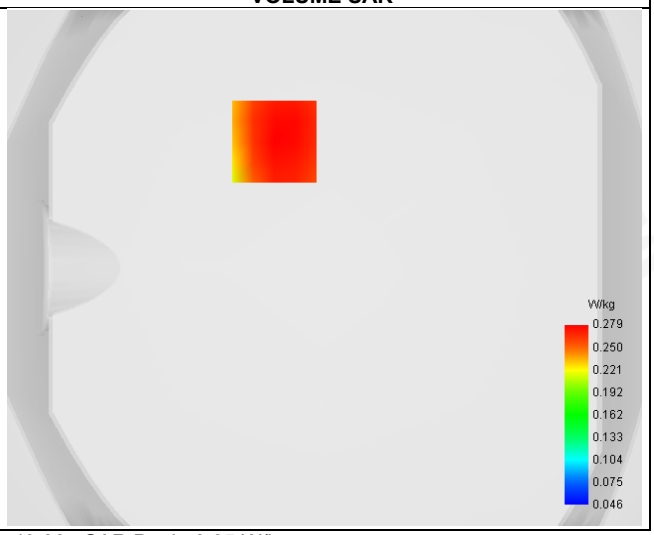


F. 3D Image

3D screen shot	Hot spot position
	

Plot 5: DUT: AI Translator Earbuds; EUT Model: A9

Test Date	2025-08-18
ConvF	1.56
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Front side
Band	LTE band 12
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	707.5
Relative permittivity (real part)	42.56
Conductivity (S/m)	0.90

SURFACE SAR	VOLUME SAR
	

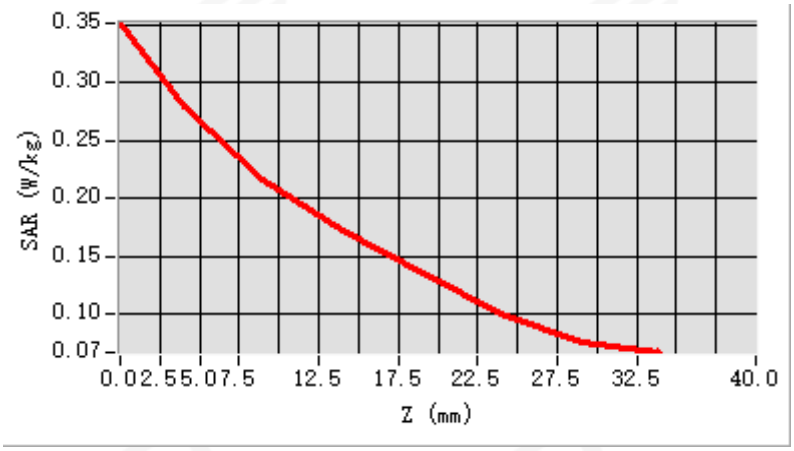
Maximum location: X=-19.00, Y=49.00 ; SAR Peak: 0.35 W/kg

D. SAR 1g & 10g

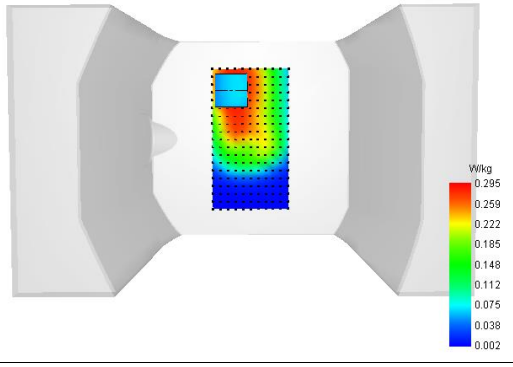
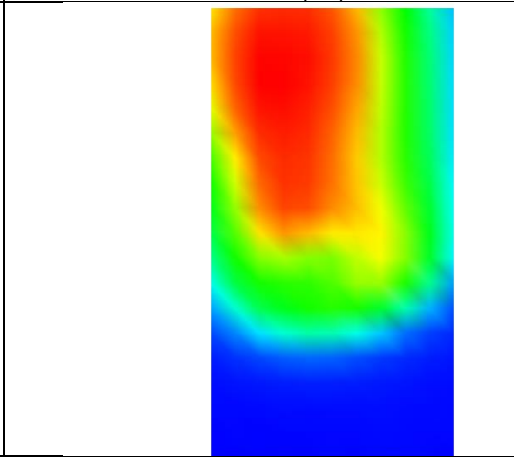
SAR 10g (W/Kg)	0.206
SAR 1g (W/Kg)	0.273
Horizontal validation criteria: minimum distance (mm)	11.052551
Vertical validation criteria: SAR ratio M2/M1 (%)	76.215014

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.351	0.279	0.217	0.172	0.136	0.101	0.077

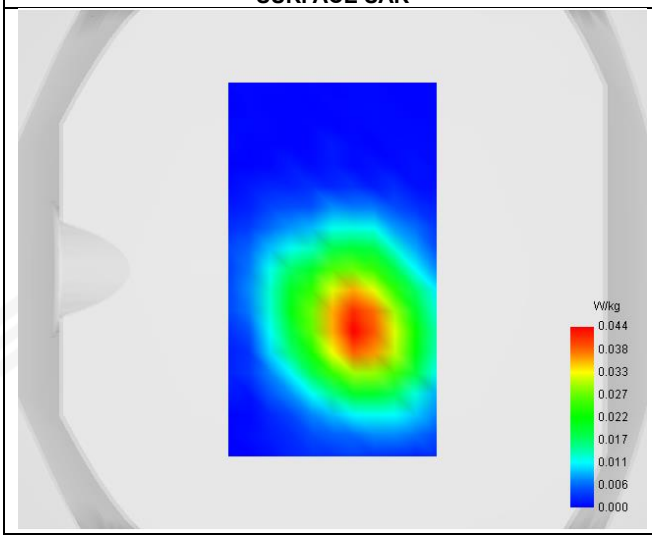
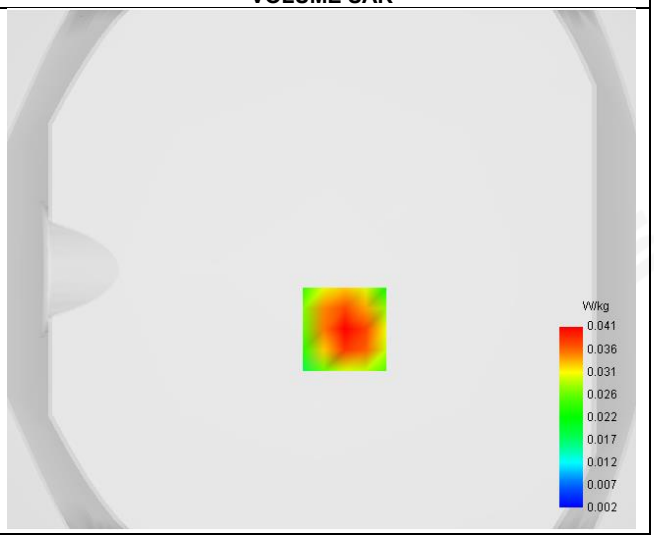


F. 3D Image

3D screen shot	Hot spot position
	

Plot 6: DUT: AI Translator Earbuds; EUT Model: A9

Test Date	2025-08-18
ConvF	1.56
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Front side
Band	LTE band 17
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	709
Relative permittivity (real part)	42.77
Conductivity (S/m)	0.89

SURFACE SAR	VOLUME SAR
	

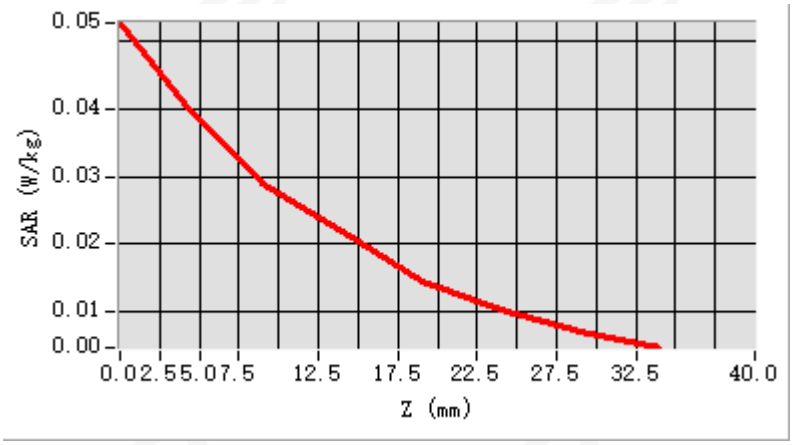
Maximum location: X=9.00, Y=-23.00 ; SAR Peak: 0.05 W/kg

D. SAR 1g & 10g

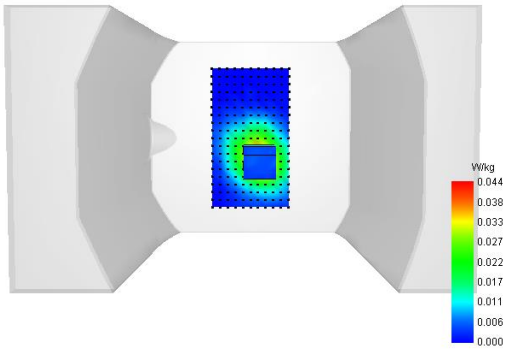
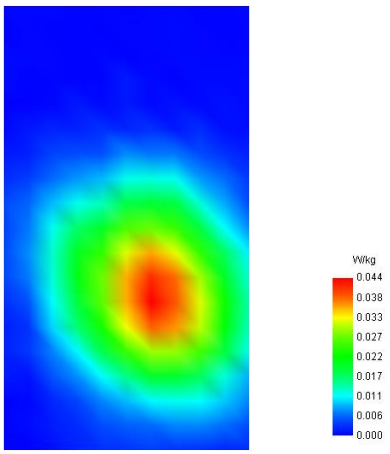
SAR 10g (W/Kg)	0.026
SAR 1g (W/Kg)	0.039
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	71.845217

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.053	0.041	0.029	0.022	0.015	0.010	0.007

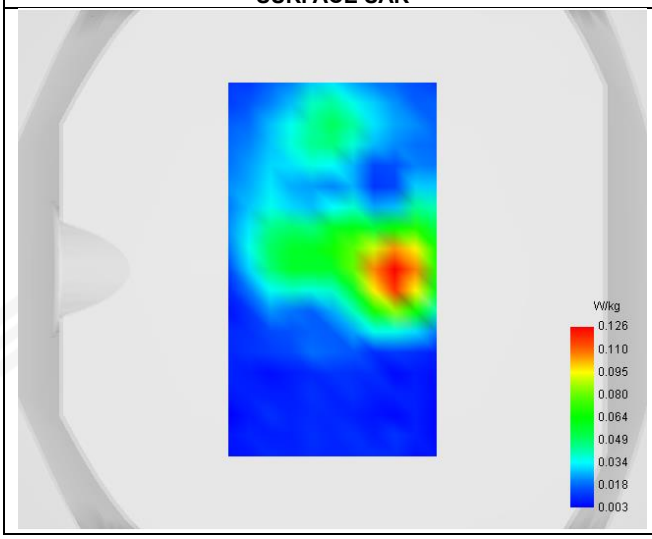
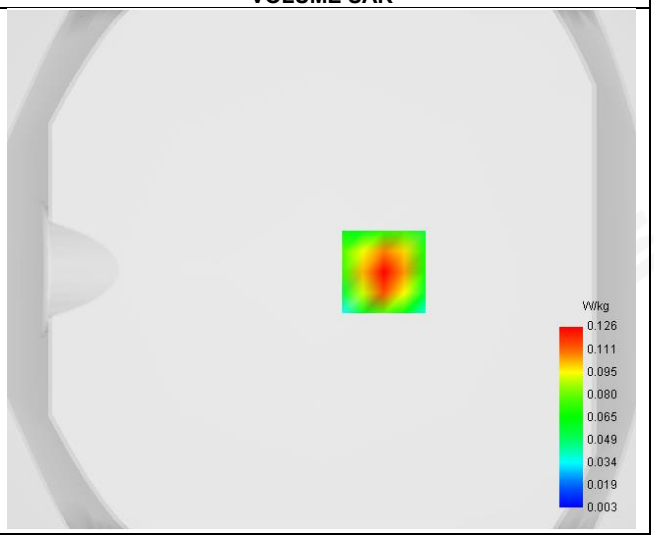


F. 3D Image

3D screen shot	Hot spot position
	

Plot 7: DUT: AI Translator Earbuds; EUT Model: A9

Test Date	2025-08-20
ConvF	1.74
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Front side
Band	LTE band 41
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2549.5
Relative permittivity (real part)	39.23
Conductivity (S/m)	1.91

SURFACE SAR	VOLUME SAR
	

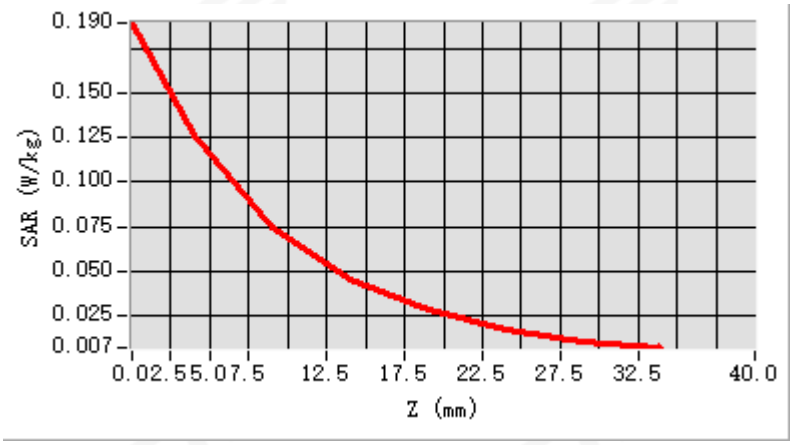
Maximum location: X=24.00, Y=-1.00 ; SAR Peak: 0.19 W/kg

D. SAR 1g & 10g

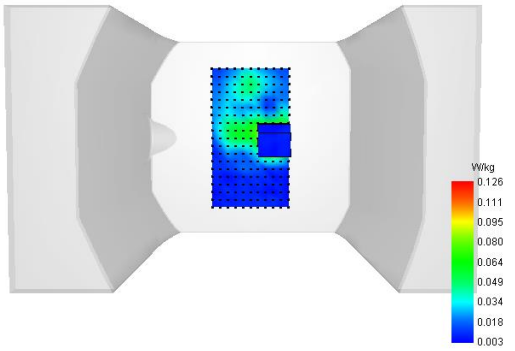
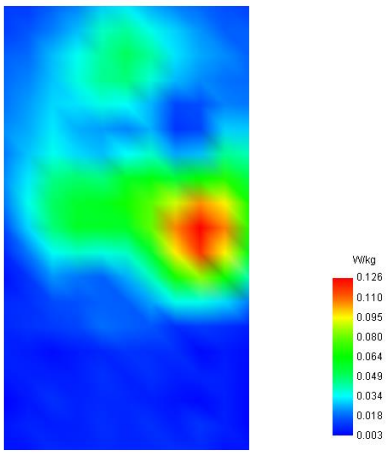
SAR 10g (W/Kg)	0.066
SAR 1g (W/Kg)	0.119
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	59.466664

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.190	0.126	0.075	0.045	0.028	0.017	0.010

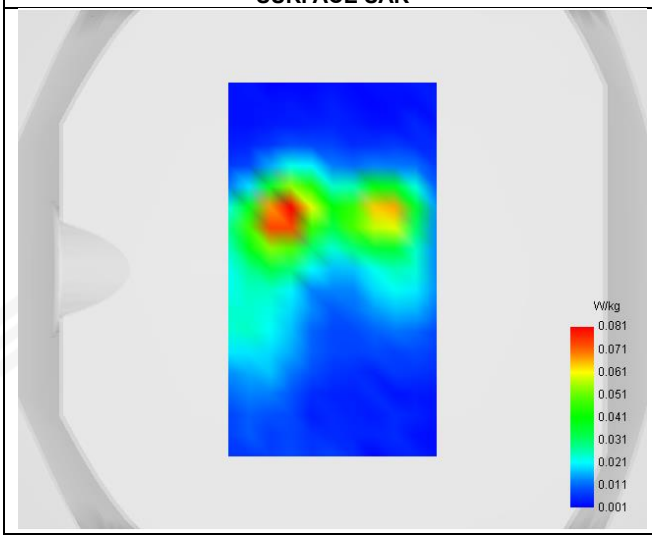
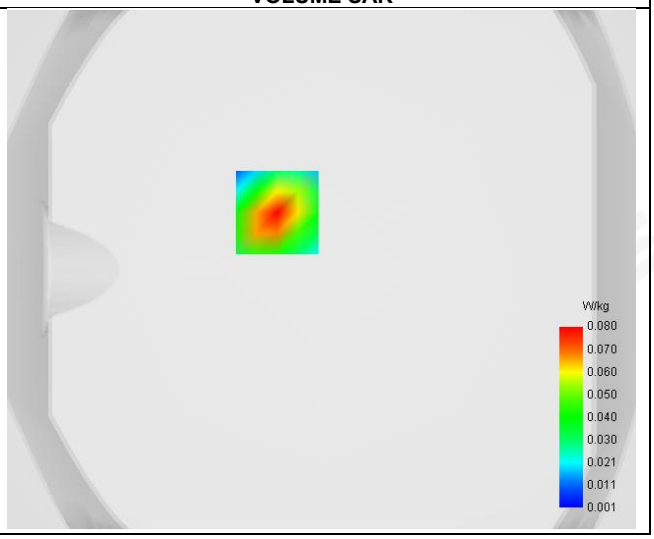


F. 3D Image

3D screen shot	Hot spot position
	

Plot 8: DUT: AI Translator Earbuds; EUT Model: A9

Test Date	2025-08-20
ConvF	1.80
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Front side
Band	2.4GHz WLAN
Signal	802.11b (Crest factor: 1.0)
Frequency (MHz)	2412
Relative permittivity (real part)	39.57
Conductivity (S/m)	1.82

SURFACE SAR	VOLUME SAR
	

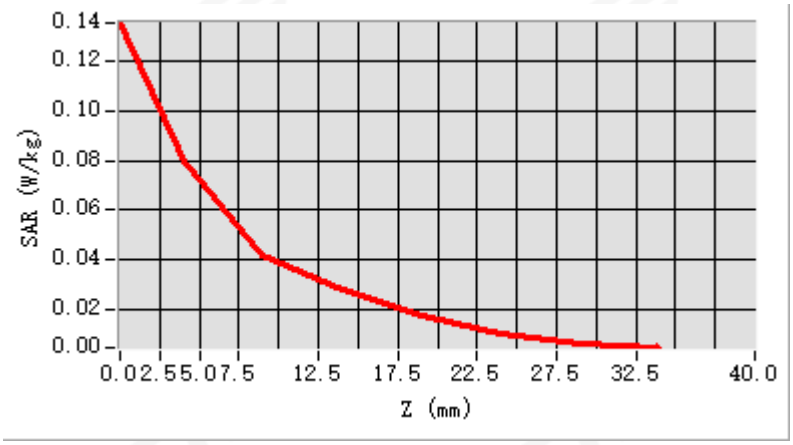
Maximum location: X=-17.00, Y=22.00 ; SAR Peak: 0.14 W/kg

D. SAR 1g & 10g

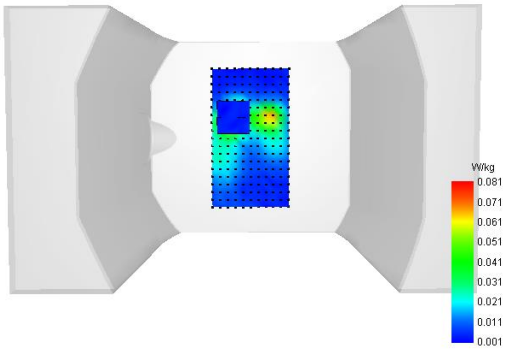
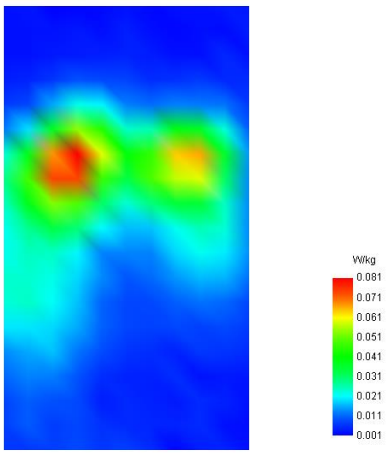
SAR 10g (W/Kg)	0.037
SAR 1g (W/Kg)	0.077
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	51.792569

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.136	0.080	0.041	0.028	0.017	0.011	0.006

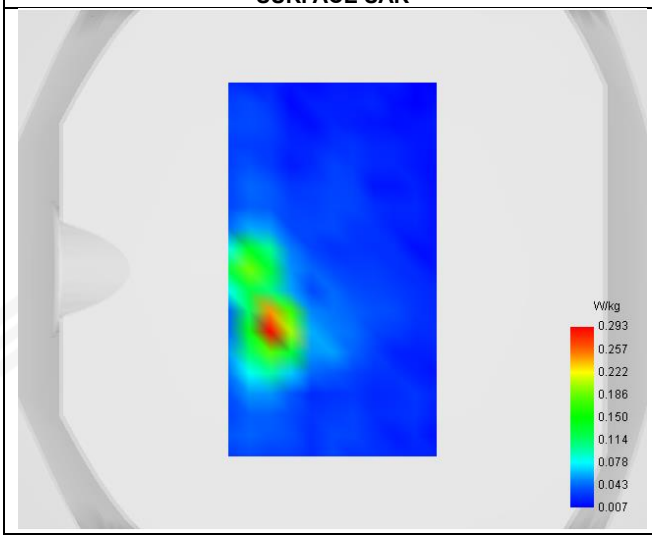
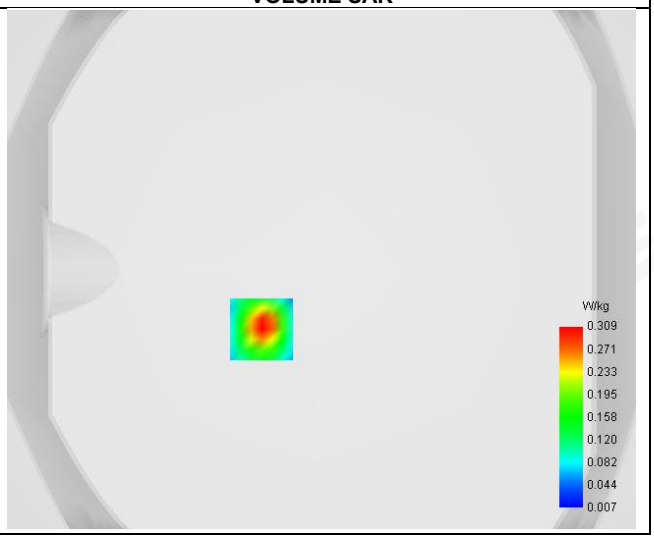


F. 3D Image

3D screen shot	Hot spot position
	

Plot 9: DUT: AI Translator Earbuds; EUT Model: A9

Test Date	2025-08-22
ConvF	1.33
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm, Complete
Phantom	Validation plane
Device Position	Front side
Band	5.2 GHz WLAN
Signal	802.11 n-HT20 (Crest factor: 1.0)
Frequency (MHz)	5200
Relative permittivity (real part)	36.65
Conductivity (S/m)	4.61

SURFACE SAR	VOLUME SAR
	

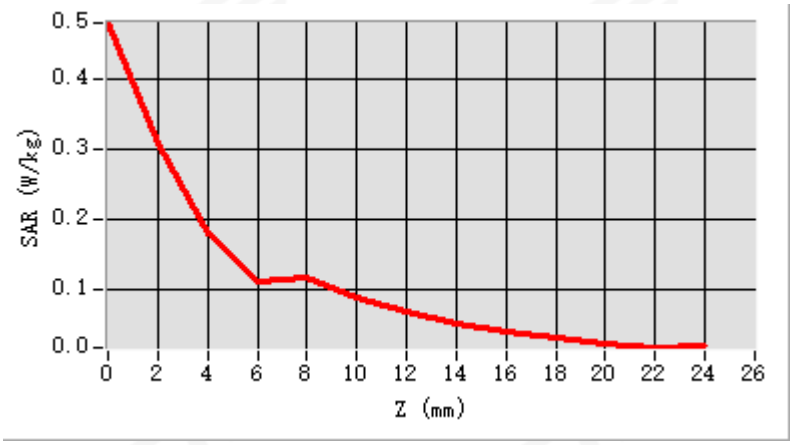
Maximum location: X=-23.00, Y=-23.00 ; SAR Peak: 0.58 W/kg

D. SAR 1g & 10g

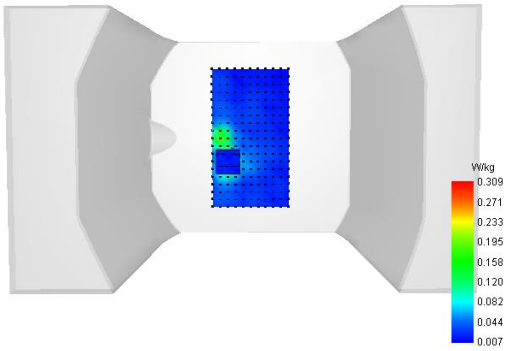
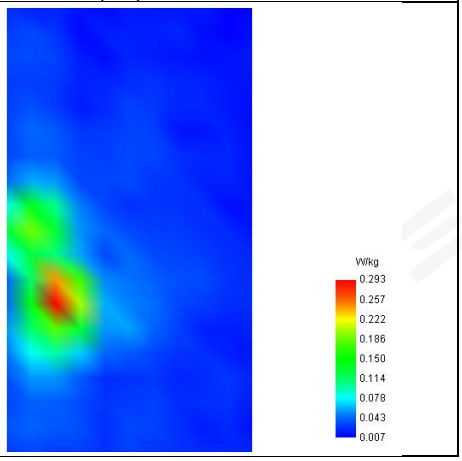
SAR 10g (W/Kg)	0.086
SAR 1g (W/Kg)	0.216
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	58.798295

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)	0.480	0.309	0.181	0.111	0.118	0.090	0.069	0.053	0.040	0.031	0.024	0.018

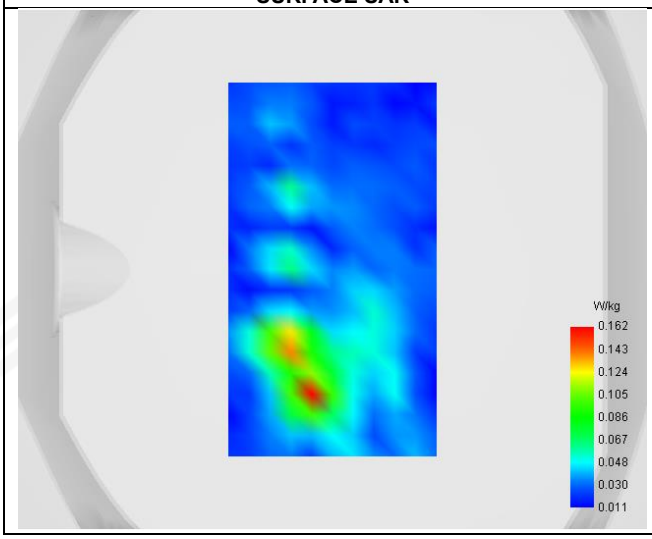
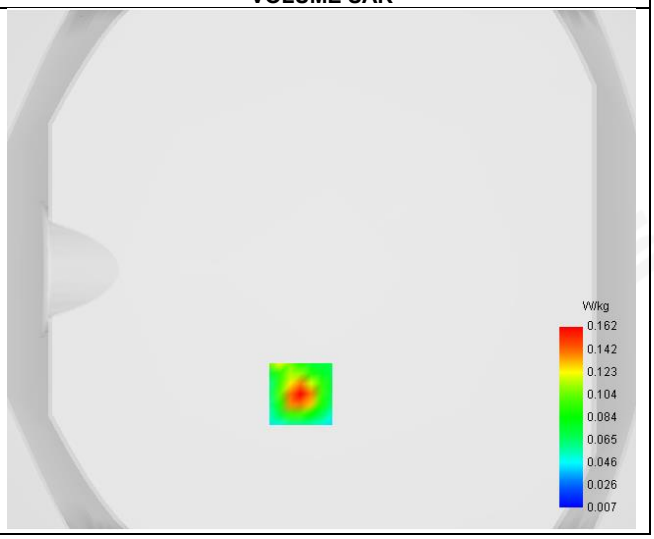


F. 3D Image

3D screen shot	Hot spot position
	

Plot 10: DUT: AI Translator Earbuds; EUT Model: A9

Test Date	2025-08-22
ConvF	1.31
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm, Complete
Phantom	Validation plane
Device Position	Front side
Band	5.3GHz WLAN
Signal	802.11 n-HT20 (Crest factor: 1.0)
Frequency (MHz)	5300
Relative permittivity (real part)	35.90
Conductivity (S/m)	4.77

SURFACE SAR	VOLUME SAR
	

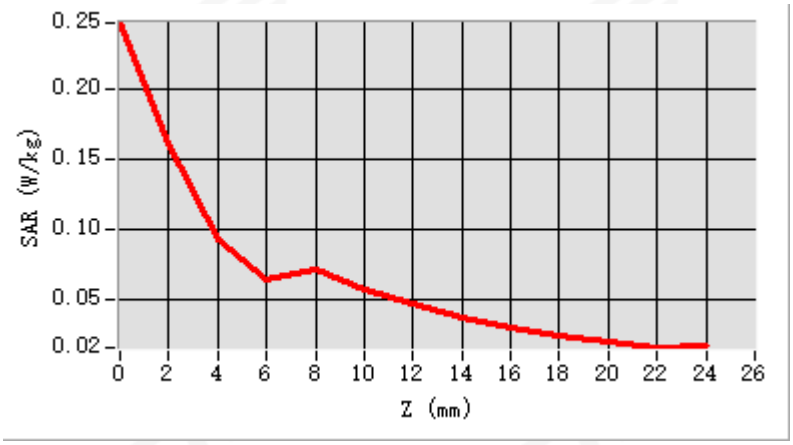
Maximum location: X=-8.00, Y=-48.00 ; SAR Peak: 0.32 W/kg

D. SAR 1g & 10g

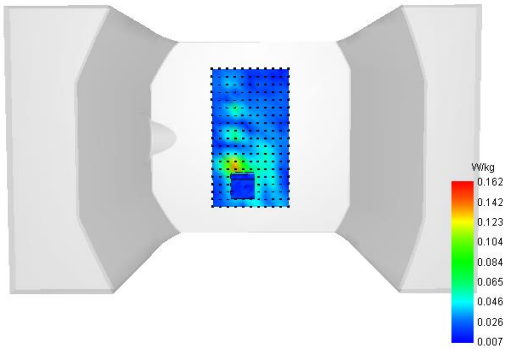
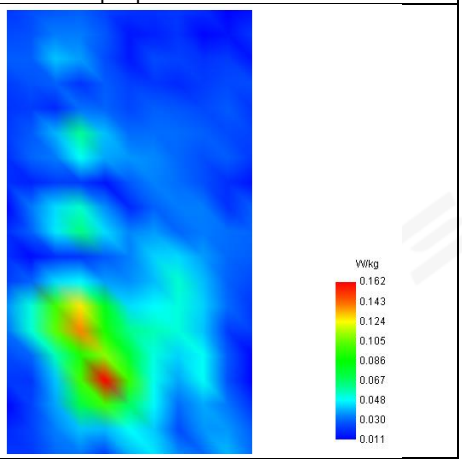
SAR 10g (W/Kg)	0.052
SAR 1g (W/Kg)	0.120
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	57.921391

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)	0.247	0.162	0.094	0.065	0.072	0.058	0.047	0.038	0.031	0.025	0.020	0.017

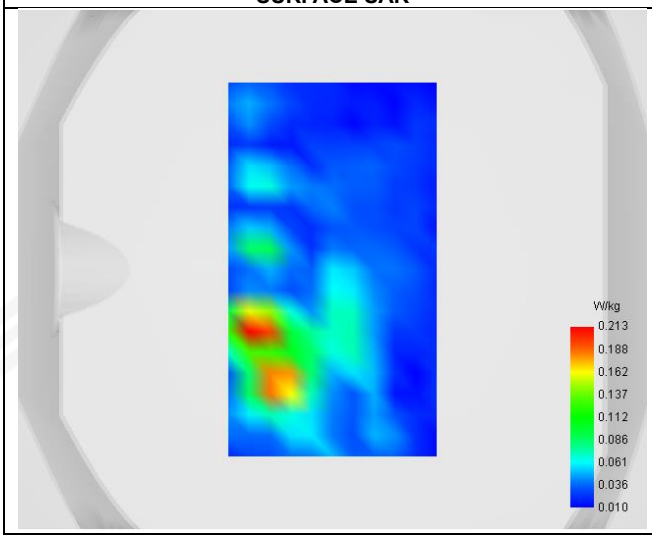
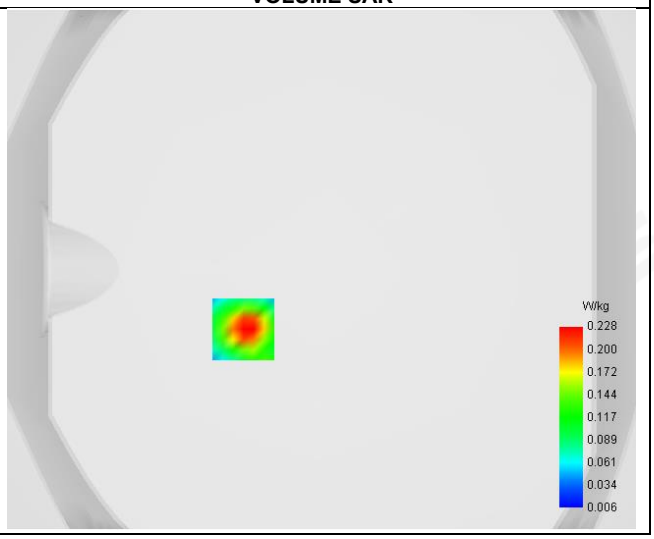


F. 3D Image

3D screen shot	Hot spot position
	

Plot 11: DUT: AI Translator Earbuds; EUT Model: A9

Test Date	2025-08-23
ConvF	1.24
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm, Complete
Phantom	Validation plane
Device Position	Front side
Band	5.6GHz WLAN
Signal	802.11 n-HT40 (Crest factor: 1.0)
Frequency (MHz)	5670
Relative permittivity (real part)	36.09
Conductivity (S/m)	5.12

SURFACE SAR	VOLUME SAR
	

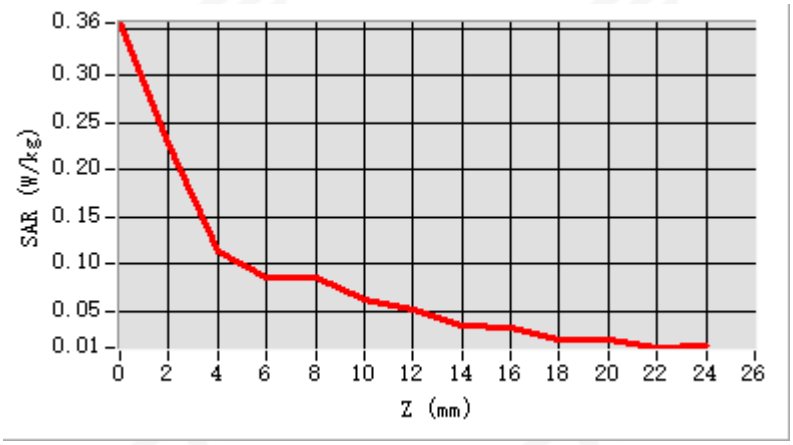
Maximum location: X=-30.00, Y=-23.00 ; SAR Peak: 0.45 W/kg

D. SAR 1g & 10g

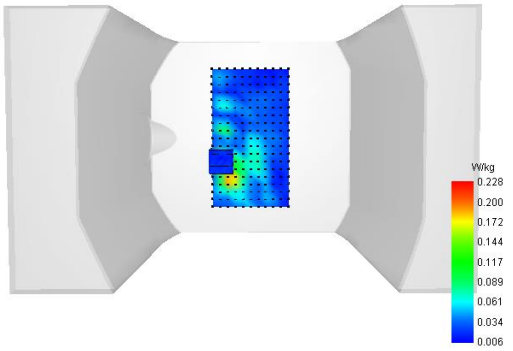
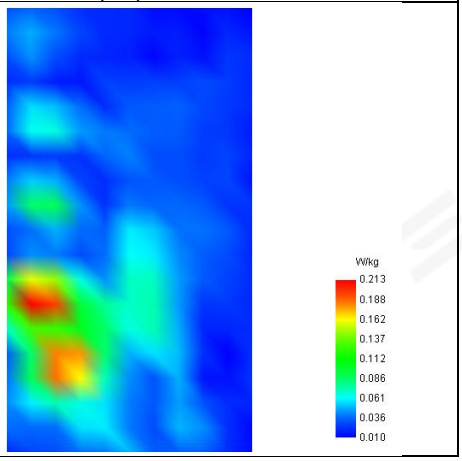
SAR 10g (W/Kg)	0.073
SAR 1g (W/Kg)	0.170
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	57.914955

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)	0.356	0.228	0.113	0.085	0.086	0.063	0.053	0.036	0.033	0.021	0.020	0.012

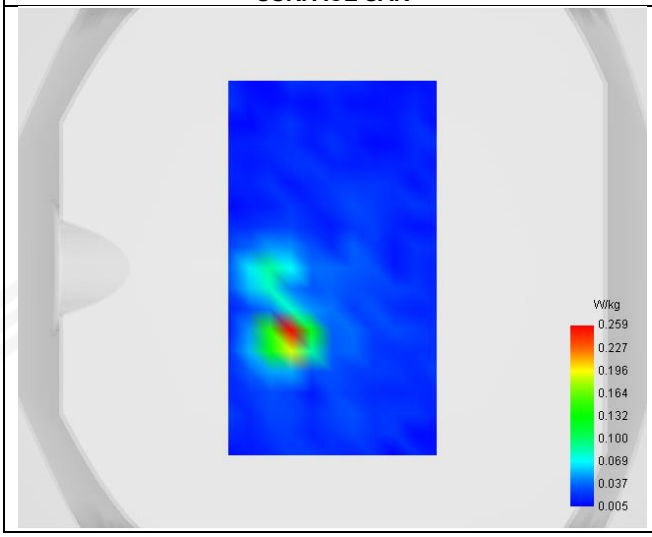
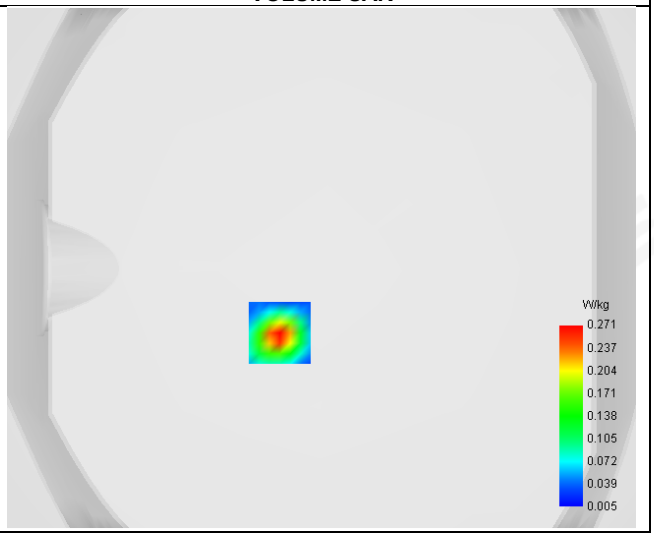


F. 3D Image

3D screen shot	Hot spot position
	

Plot 12: DUT: AI Translator Earbuds; EUT Model: A9

Test Date	2025-08-23
ConvF	1.35
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm, Complete
Phantom	Validation plane
Device Position	Front side
Band	5.8GHz WLAN
Signal	802.11 n-HT20 (Crest factor: 1.0)
Frequency (MHz)	5785
Relative permittivity (real part)	35.50
Conductivity (S/m)	5.18

SURFACE SAR	VOLUME SAR
	

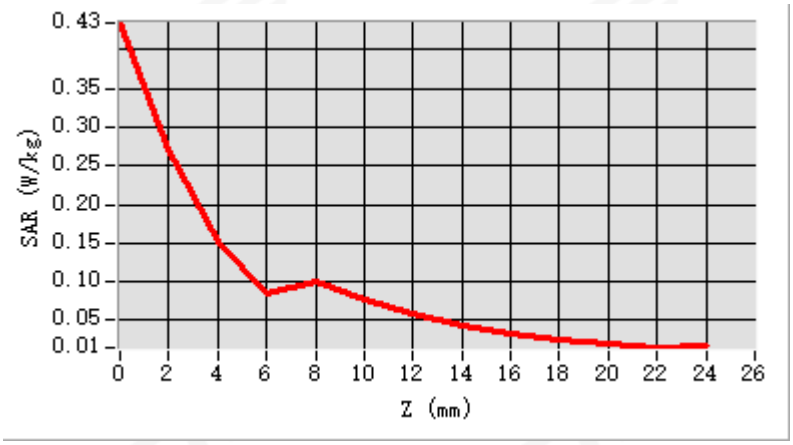
Maximum location: X=-16.00, Y=-25.00 ; SAR Peak: 0.55 W/kg

D. SAR 1g & 10g

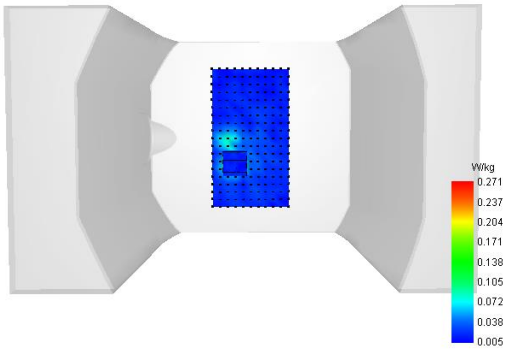
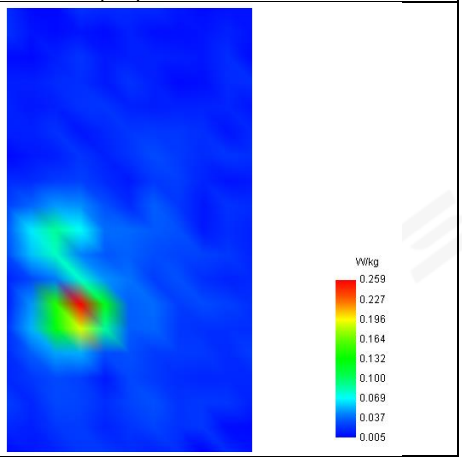
SAR 10g (W/Kg)	0.067
SAR 1g (W/Kg)	0.185
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	56.340190

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)	0.435	0.271	0.152	0.084	0.100	0.076	0.057	0.044	0.033	0.025	0.019	0.015



F. 3D Image

3D screen shot	Hot spot position
	

Appendix C. Probe Calibration and Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※※END OF THE REPORT※※※※※