



SAR TEST REPORT

Product Name: 4G USB DONGLE

Model Number: UD668

FCC ID: 2BNQ8-UD668

Issued For : AOZORA WIRELESS INC.

8605 Santa Monica Blvd 30327, West Hollywood California
90069 United States

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Zhenxiong Industrial Park,
No.177, Renmin West Road, Jinsha, Kengzi Street,
Pingshan District, Shenzhen, Guangdong, China

Report Number: LGT26D053HA01

Sample Received Date: Apr. 10, 2026

Date of Test Apr. 28, 2026 ~ May 09, 2026

Date of Issue May 09, 2026

Max. SAR (1g) Body: 1.395 W/kg

The test report is effective only with both signature and specialized stamp. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report only apply to the tested sample.



Table of Contents

1. General Information	5
1.1 EUT Description	5
1.2 Test Environment	6
1.3 Test Factory	6
2. Test Standards and Limits	7
3. SAR Measurement System	8
3.1 Definition of Specific Absorption Rate (SAR)	8
3.2 SAR System	8
4. Tissue Simulating Liquids	11
4.1 Simulating Liquids Parameter Check	11
5. SAR System Validation	13
5.1 Validation System	13
5.2 Validation Result	14
6. SAR Evaluation Procedures	15
7. EUT Antenna Location Sketch	16
8. EUT Test Position	17
8.1 USB connector Orientations Implemented on Laptop Computers	17
9. Uncertainty	18
9.1 Measurement Uncertainty	18
9.2 System validation Uncertainty	19
10. Conducted Power Measurement	20
10.1 Test Result	20
10.1 Tune Up	38
11. EUT and Test Setup Photo	40
11.1 EUT Photos	40
11.2 Setup Photos	43
12. SAR Result Summary	49
12.1 Body-worn SAR	49
12.2 Repeated SAR	58
12.3 Repeated SAR measurement	60
13. Equipment List	62
Appendix A. System Validation Plots	63
Appendix B. SAR Test Plots	73
Appendix C. Probe Calibration and Dipole Calibration Report	81



Revision History

Rev.	Issue Date	Contents
00	May 09, 2026	Initial Issue



TEST REPORT CERTIFICATION

Applicant AOZORA WIRELESS INC.
Address 8605 Santa Monica Blvd 30327, West Hollywood California 90069
United States
Manufacture AOZORA WIRELESS INC.
Address 8605 Santa Monica Blvd 30327, West Hollywood California 90069
United States
Product Name 4G USB DONGLE
Trademark AOZORA
Model Number UD668
Sample number LGT2604086-1

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
ANSI/IEEE Std. C95.1-2019 FCC 47 CFR Part 2 (2.1093) IEEE 1528: 2013	PASS

Prepared by:

Deng Deng

Deng Deng
Engineer

Approved by:

Vita Li

Vita Li
Manager





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	4G USB DONGLE	
Test Model Number	UD668	
Series Number	N/A	
Model Difference	N/A	
Device Category	Portable	
Product stage	Production unit	
RF Exposure Environment	General Population / Uncontrolled	
Hardware Version	N/A	
Software Version	N/A	
Frequency Range	LTE Band 2:1850 ~1910MHz LTE Band 4:1710 ~1755MHz LTE Band 5:824 ~ 849MHz LTE Band 12:699~716MHz LTE Band 13:777~787MHz LTE Band 17:704 ~ 716MHz LTE Band 66:1710~1780MHz LTE Band 71: 617~652 MHz 663~698MHz	
Max. Reported SAR(1g): (Limit:1.6W/kg) Test distance: Body:5mm	Mode	Body Worn (W/ kg)
	LTE Band 2	0.324
	LTE Band 4	1.043
	LTE Band 5	0.852
	LTE Band 12	1.083
	LTE Band 13	1.395
	LTE Band 17	0.959
	LTE Band 66	0.786
	LTE Band 71	0.886
Description test modes	Only support single SIM Card.	
Operating Mode:	LTE: QPSK, 16QAM	
Antenna Specification	LTE: External Antenna	
Operating Mode	Maximum continuous output	
SIM Card	Only support single SIM Card.	
Hotspot Mode	Not Support	
DTM Mode	Not Support	



1.2 Test Environment

Ambient conditions in the SAR laboratory:

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

1.3 Test Factory

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China
Accreditation Certificate	FCC Registration No.: 746540
	CAB ID: CN0136



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	ANSI/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
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 D01 v06	Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies
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 648474 D04 v01r03	SAR Evaluation Considerations for Wireless Handsets
9	FCC KDB 447498 D02 v02r01	SAR Procedures for Dongle

(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

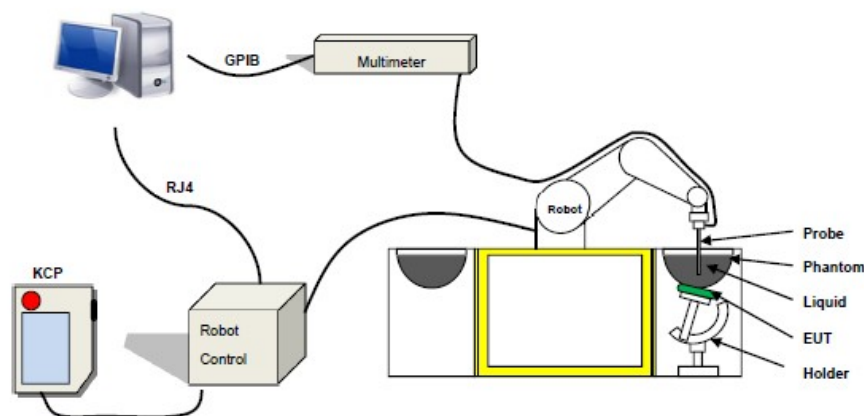
$$SAR = \frac{\sigma E^2}{\rho}$$

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 OpenSAR software computes the results to give a SAR value in a 1g or 1g mass.

3.2.1 Probe

For the measurements the Specific Dosimetric E-Field Probe 0326-EPGO-431 with following specifications is used

- Probe Length: 330 mm
- Length of Individual Dipoles: 2mm
- 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: 0.15 GHz to 7.5 GHz for head simulating liquid.
- Angle between probe axis (evaluation axis) and surface normal line: less than 30°



Figure 1-MVG COMOSAR Dosimetric E field Probe



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.

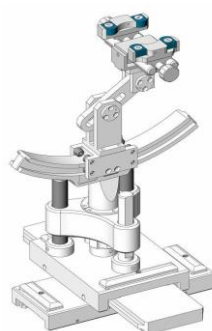


Figure-SN 06/22 SAM 148



Figure-SN 06/22 ELLI 51

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

4.1 Simulating Liquids Parameter Check

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

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

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

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

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



LIQUID MEASUREMENT RESULTS

Date	Ambient		Simulating Liquid		Parameters	Target	Measured	Deviation %	Limited %
	Temp. [°C]	Humidity %	Frequency (MHz)	Temp. [°C]					
2026-04-29	23.5	58	750	23.2	Permittivity	41.90	42.37	1.12	±5
					Conductivity	0.89	0.90	1.12	±5
2026-04-28	23.4	53	750	23.2	Permittivity	41.90	42.80	2.15	±5
					Conductivity	0.89	0.91	2.25	±5
2026-05-01	22.8	45	835	22.5	Permittivity	41.50	42.67	2.82	±5
					Conductivity	0.90	0.91	1.11	±5
2026-04-30	21.7	50	1800	21.4	Permittivity	40.00	40.21	0.53	±5
					Conductivity	1.40	1.35	-3.57	±5
2026-05-01	22	46	1900	21.7	Permittivity	40.00	40.98	2.45	±5
					Conductivity	1.40	1.42	1.43	±5

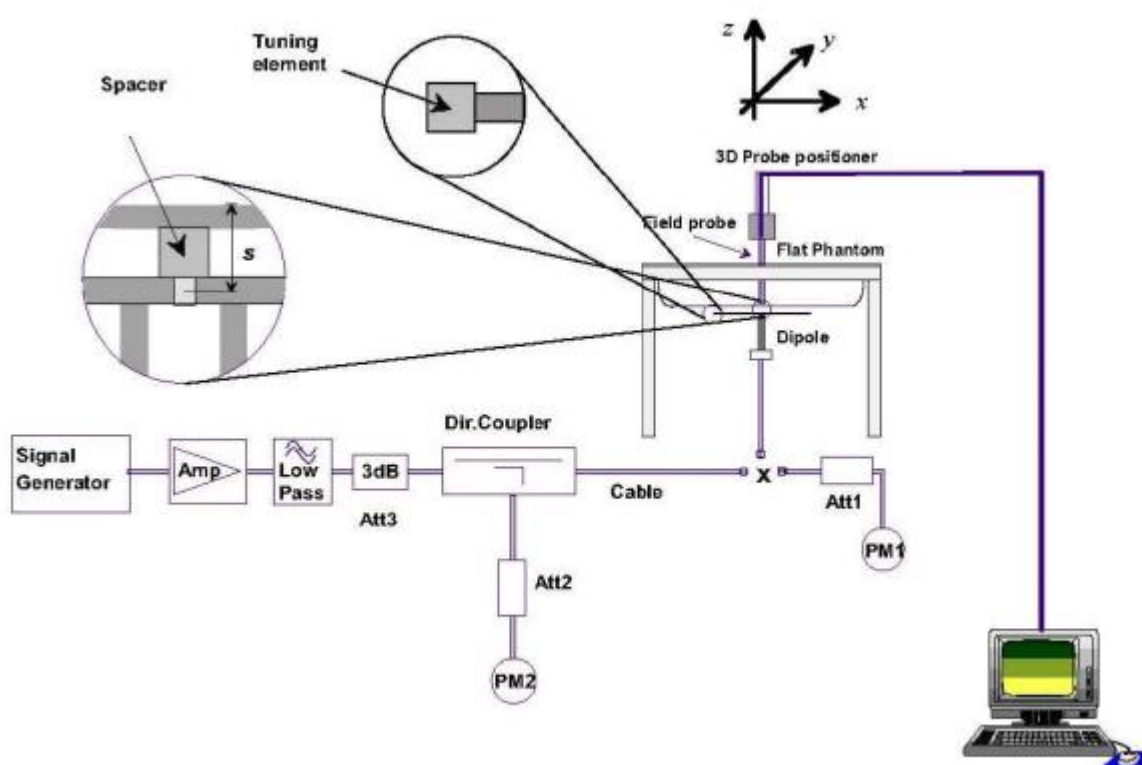


5. SAR System Validation

5.1 Validation System

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

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





5.2 Validation Result

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

Date	Freq.	Power	Power drift	Tested Value	Normalized SAR	Target SAR	Tolerance
	(MHz)	(mW)	(%)	(W/Kg)	(W/kg)	1g(W/kg)	(%)
2026-04-29	750	100	0.855	8.55	8.51	0.47	10
2026-04-28	750	100	0.842	8.42	8.51	-1.06	10
2026-05-01	835	100	0.978	9.78	9.63	1.56	10
2026-04-30	1800	100	3.662	36.62	36.60	0.05	10
2026-05-01	1900	100	3.994	39.94	40.20	-0.65	10

Note:

1. The tolerance limit of System validation $\pm 10\%$.
2. The dipole input power (forward power) was 100 mW.
3. The results are normalized to 1 W input power.



6. SAR Evaluation Procedures

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

The following steps are used for each test position

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

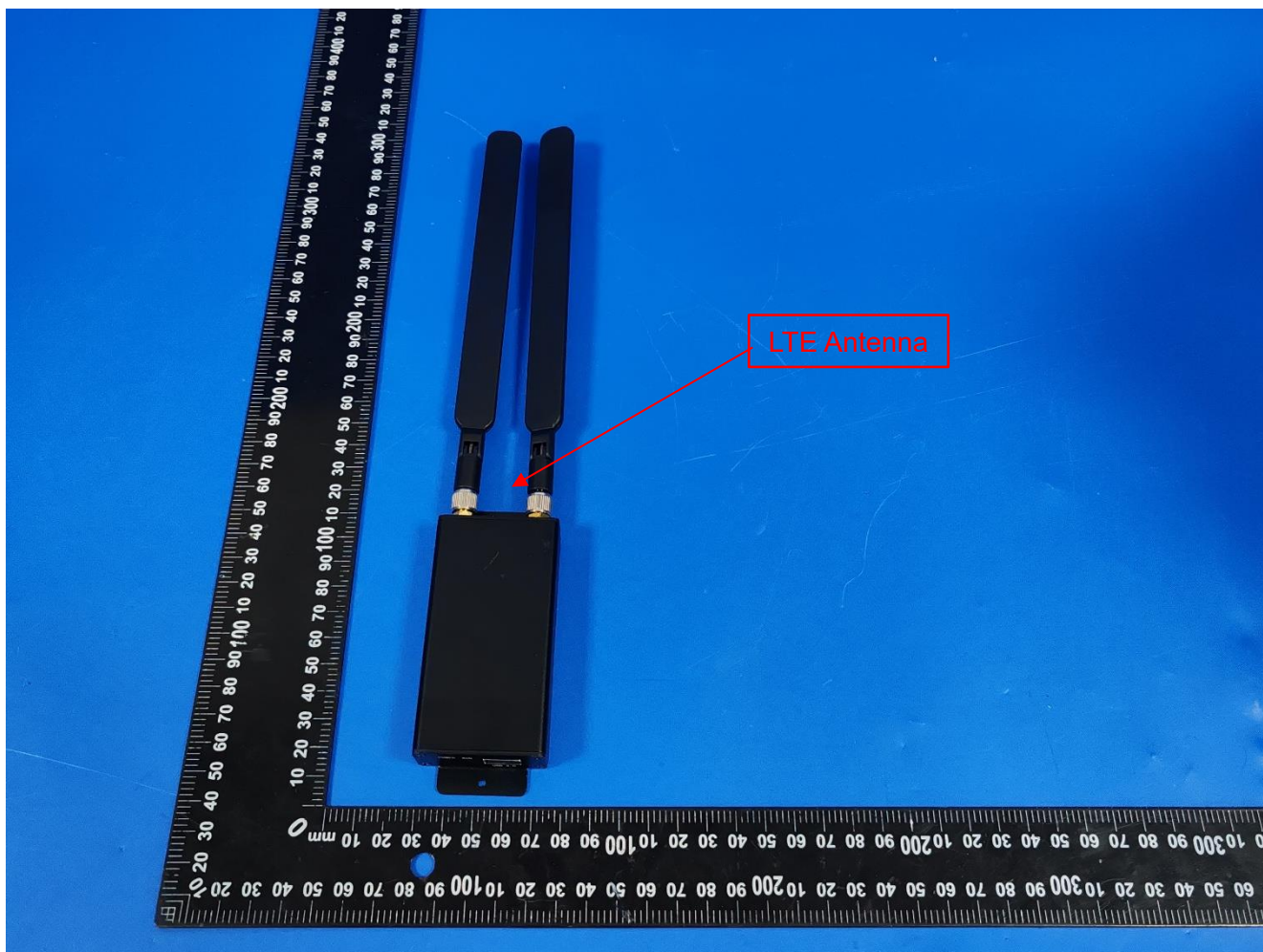
➤ Area Scan & Zoom Scan

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g. Area scan and zoom scan resolution setting follows KDB 865664 D01 quoted below.

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



7. EUT Antenna Location Sketch



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



8. EUT Test Position

According to KDB 447498 D02, USB connector orientations on laptop computers, which is tested for SAR compliance in body-worn accessory and other use configurations described in the following subsections.

8.1 USB connector Orientations Implemented on Laptop Computers



Note: These are USB connector orientations on laptop computers; USB dongles have the reverse configuration for plugging into the corresponding laptop computers.



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 $k=2$.

Uncertainty Component	Tol (+/- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+/-%)	10g Ui (+/-%)	vi
Measurement System								
Probe calibration	14	N	2	1	1	7.00	7.00	∞
Axial Isotropy	3.5	R	$\sqrt{3}$	$\sqrt{0.5}$	$\sqrt{0.5}$	1.43	1.43	∞
Hemispherical Isotropy	5.9	R	$\sqrt{3}$	$\sqrt{0.5}$	$\sqrt{0.5}$	2.41	2.41	∞
Boundary effect	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	4.7	R	$\sqrt{3}$	1	1	2.71	2.71	∞
System detection limits	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Modulation response	0	R	$\sqrt{3}$	1	1	0.00	0.00	∞
Readout Electronics	0.5	N	1	1	1	0.50	0.50	∞
Response Time	0	R	$\sqrt{3}$	1	1	0.00	0.00	∞
Integration Time	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
RF ambient conditions-Noise	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
RF ambient conditions-reflections	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe positioner mechanical tolerance	3.28	R	$\sqrt{3}$	1	1	1.89	1.89	∞
Probe positioning with respect to phantom shell	3.28	R	$\sqrt{3}$	1	1	1.89	1.89	∞
Extrapolation, Interpolation and Integration Algorithms for Max, SAR	2.3	R	$\sqrt{3}$	1	1	1.33	1.33	∞
Test sample Related								
Test sample positioning	2.6	N	1	1	1	2.60	2.60	11
Device holder uncertainty	3	N	1	1	1	3.00	3.00	7
Output Power Variation - SAR Drift Measurement	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞
SAR scaling	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Phantom and tissue parameters								
Phantom uncertainty (shape and thickness uncertainty)	4	R	$\sqrt{3}$	1	1	2.31	2.31	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	2.9	N	1	1	0.84	2.90	2.44	∞
Liquid Conductivity - Measurement Uncertainty)	4	R	1	0.78	0.71	3.12	2.84	5
Liquid Permittivity - Measurement Uncertainty	4.07	N	1	0.23	0.26	0.94	1.06	5
Liquid Conductivity (Temperature Uncertainty)	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	∞
Liquid Permittivity (Temperature Uncertainty)	5.06	N	$\sqrt{3}$	0.23	0.26	0.67	0.76	∞
Combined Standard Uncertainty		RSS				11.80	11.63	
Expanded Uncertainty (95% Confidence interval)		K				23.6	23.26	



9.2 System validation Uncertainty

Uncertainty Component	Tol (+ - %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System								
Probe calibration	14	N	2	1	1	7.00	7.00	∞
Axial Isotropy	3.5	R	$\sqrt{3}$	1	1	2.02	2.02	∞
Hemispherical Isotropy	5.9	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Boundary effect	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	4.7	R	$\sqrt{3}$	1	1	2.71	2.71	∞
System detection limits	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Modulation response	0	R	$\sqrt{3}$	1	1	0.00	0.00	∞
Readout Electronics	0.5	N	1	1	1	0.50	0.50	∞
Response Time	0	R	$\sqrt{3}$	1	1	0.00	0.00	∞
Integration Time	1.4	R	$\sqrt{3}$	0	0	0.00	0.00	∞
RF ambient conditions-Noise	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
RF ambient conditions- reflections	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe positioner mechanical tolerance	3.28	R	$\sqrt{3}$	1	1	1.89	1.89	∞
Probe positioning with respect to phantom shell	3.28	R	$\sqrt{3}$	1	1	1.89	1.89	∞
Extrapolation, Interpolation and Integration Algorithms for Max, SAR	2.3	R	$\sqrt{3}$	1	1	1.33	1.33	∞
Dipole								
Deviation of Experimental Source from Numerical Source	5	N	1	1	1	5.00	5.00	∞
Input Power and SAR Drift Measurement	0.5	R	$\sqrt{3}$	1	1	0.29	0.29	∞
Dipole Axis to Liquid Distance	2	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Phantom and Tissue Parameters								
Phantom uncertainty (shape and thickness uncertainty)	4	R	$\sqrt{3}$	1	1	2.31	2.31	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	2.9	N	1	1	0.84	2.90	2.44	∞
Liquid Conductivity - Measurement Uncertainty)	4	R	1	0.78	0.71	3.12	2.84	5
Liquid Permittivity - Measurement Uncertainty	4.07	N	1	0.23	0.26	0.94	1.06	5
Liquid Conductivity (Temperature Uncertainty)	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.44	∞
Liquid Permittivity (Temperature Uncertainty)	5.06	N	$\sqrt{3}$	0.23	0.26	0.67	2.92	∞
Combined Standard Uncertainty		RSS				11.35	11.57	
Expanded Uncertainty (95% Confidence interval)		K				22.70	23.13	



10. Conducted Power Measurement

10.1 Test Result

LTE Conducted Power

General Note:

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



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	19.61	19.88	19.28
1.4	1	2		19.6	19.89	19.3
1.4	1	5		19.58	19.87	19.29
1.4	3	0		19.58	19.7	19.27
1.4	3	1		19.59	19.68	19.26
1.4	3	2		19.58	19.71	19.26
1.4	6	0		18.58	18.69	18.22
1.4	1	0	16-QAM	18.54	18.97	18.51
1.4	1	2		18.53	18.93	18.49
1.4	1	5		18.49	18.93	18.53
1.4	3	0		18.69	18.85	18.47
1.4	3	1		18.68	18.89	18.5
1.4	3	2		18.69	18.85	18.48
1.4	6	0		17.71	17.89	17.36
3	1	0	QPSK	19.56	19.72	19.33
3	1	7		19.53	19.77	19.34
3	1	14		19.51	19.75	19.36
3	8	0		18.54	18.72	18.28
3	8	4		18.55	18.75	18.29
3	8	7		18.61	18.76	18.38
3	15	0		18.56	18.74	18.28
3	1	0	16-QAM	19.01	18.91	18.24
3	1	7		19.02	18.93	18.27
3	1	14		19	18.95	18.24
3	8	0		17.59	17.71	17.22
3	8	4		17.63	17.73	17.22
3	8	7		17.67	17.77	17.31
3	15	0		17.63	17.65	17.34



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	19.66	19.76	19.34
5	1	12		19.66	19.8	19.34
5	1	24		19.64	19.81	19.35
5	12	0		18.61	18.74	18.24
5	12	6		18.59	18.76	18.29
5	12	11		18.61	18.77	18.36
5	25	0		18.69	18.81	18.37
5	1	0	16-QAM	19.24	19.09	18.72
5	1	12		19.22	19.14	18.7
5	1	24		19.16	19.14	18.7
5	12	0		17.61	17.71	17.33
5	12	6		17.65	17.77	17.35
5	12	11		17.69	17.76	17.44
5	25	0		17.56	17.83	17.3
10	1	0	QPSK	19.61	19.76	19.41
10	1	24		19.55	19.81	19.38
10	1	49		19.52	19.76	19.42
10	25	0		18.45	18.74	18.33
10	25	12		18.58	18.76	18.36
10	25	24		18.63	18.84	18.53
10	50	0		18.56	18.75	18.41
10	1	0	16-QAM	19.08	18.9	18.27
10	1	24		19.02	18.99	18.23
10	1	49		18.99	18.93	18.31
10	25	0		17.55	17.73	17.3
10	25	12		17.63	17.73	17.31
10	25	24		17.66	17.81	17.46
10	50	0		17.54	17.78	17.32



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	19.68	19.73	19.46
15	1	37		19.64	19.79	19.38
15	1	74		19.63	19.64	19.37
15	36	0		18.51	18.76	18.41
15	36	18		18.57	18.75	18.34
15	36	39		18.52	18.8	18.42
15	75	0		18.55	18.76	18.46
15	1	0	16-QAM	18.76	19.21	18.61
15	1	38		18.69	19.29	18.55
15	1	75		18.73	19.11	18.56
15	36	0		17.48	17.81	17.47
15	36	18		17.54	17.79	17.39
15	36	39		17.51	17.84	17.51
15	75	0		17.61	17.8	17.38
20	1	0	QPSK	19.64	19.81	19.52
20	1	49		19.6	19.92	19.45
20	1	99		19.72	19.67	19.41
20	50	0		18.49	18.79	18.72
20	50	24		18.63	18.82	18.44
20	50	49		18.48	18.94	18.55
20	100	0		18.51	18.87	18.62
20	1	0	16-QAM	19.02	19.08	18.76
20	1	49		18.93	19.15	18.64
20	1	99		19.03	18.89	18.68
20	50	0		17.5	17.76	17.72
20	50	24		17.7	17.77	17.45
20	50	49		17.55	17.89	17.58
20	100	0		17.5	17.91	17.63



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.05	23.18	23.16
1.4	1	2		22.98	23.2	23.22
1.4	1	5		23.01	23.16	23.2
1.4	3	0		23.06	23.11	23.13
1.4	3	1		22.99	23.13	23.12
1.4	3	2		23.03	23.15	23.14
1.4	6	0		22.03	22.12	22.17
1.4	1	0	16-QAM	22.23	22.12	22.35
1.4	1	2		22.3	22.06	22.34
1.4	1	5		22.26	22.13	22.38
1.4	3	0		22.29	22.27	22.38
1.4	3	1		22.28	22.26	22.34
1.4	3	2		22.27	22.27	22.33
1.4	6	0		21.16	21.28	21.34
3	1	0	QPSK	23.08	23.12	23.15
3	1	7		23.1	23.15	23.17
3	1	14		23.05	23.11	23.22
3	8	0		22.04	22.13	22.19
3	8	4		22.02	22.12	22.18
3	8	7		22.05	22.16	22.18
3	15	0		22.05	22.15	22.19
3	1	0	16-QAM	22.53	22.38	22.14
3	1	7		22.54	22.41	22.16
3	1	14		22.5	22.38	22.15
3	8	0		21.1	21.12	21.21
3	8	4		21.09	21.13	21.18
3	8	7		21.24	21.16	21.2
3	15	0		21.14	21.08	21.21



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.1	23.19	23.33
5	1	12		23.16	23.32	23.34
5	1	24		23.24	23.32	23.34
5	12	0		22.2	22.19	22.31
5	12	6		22.19	22.29	22.26
5	12	11		22.24	22.3	22.25
5	25	0		22.19	22.26	22.28
5	1	0	16-QAM	22.64	22.56	22.73
5	1	12		22.56	22.54	22.74
5	1	24		22.6	22.56	22.75
5	12	0		21.1	21.23	21.22
5	12	6		21.08	21.23	21.22
5	12	11		21.08	21.25	21.24
5	25	0		21.18	21.17	21.22
10	1	0	QPSK	23.11	23.24	23.23
10	1	24		23.05	23.29	23.2
10	1	49		23.12	23.32	23.25
10	25	0		22.13	22.19	22.25
10	25	12		22.1	22.2	22.21
10	25	24		22.1	22.26	22.22
10	50	0		22.16	22.24	22.22
10	1	0	16-QAM	22.33	22.13	22.67
10	1	24		22.32	22.2	22.63
10	1	49		22.34	22.19	22.64
10	25	0		21.14	21.16	21.24
10	25	12		21.09	21.18	21.2
10	25	24		21.11	21.22	21.23
10	50	0		21.16	21.17	21.17



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.11	23.16	23.38
15	1	37		23.19	23.32	23.33
15	1	74		23.16	23.28	23.38
15	36	0		22.14	22.16	22.24
15	36	18		22.13	22.21	22.19
15	36	39		22.15	22.24	22.18
15	75	0		22.16	22.23	22.24
15	1	0	16-QAM	22.64	22.4	22.38
15	1	38		22.63	22.49	22.38
15	1	75		22.65	22.47	22.39
15	36	0		21.19	21.21	21.22
15	36	18		21.16	21.25	21.15
15	36	39		21.2	21.3	21.16
15	75	0		21.02	21.21	21.27
20	1	0	QPSK	23.18	23.18	23.34
20	1	49		23.18	23.2	23.39
20	1	99		23.18	23.18	23.37
20	50	0		22.13	22.17	22.23
20	50	24		22.07	22.18	22.21
20	50	49		22.11	22.19	22.25
20	100	0		22.18	22.23	22.27
20	1	0	16-QAM	22.56	22.68	22.52
20	1	49		22.47	22.75	22.55
20	1	99		22.6	22.76	22.5
20	50	0		21.26	21.2	21.26
20	50	24		21.17	21.3	21.23
20	50	49		21.28	21.33	21.25
20	100	0		21.21	21.26	21.24



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.2	23.21	23.27
1.4	1	2		23.21	23.22	23.29
1.4	1	5		23.2	23.19	23.26
1.4	3	0		23.2	23.19	23.23
1.4	3	1		23.17	23.2	23.23
1.4	3	2		23.18	23.18	23.23
1.4	6	0		22.23	22.18	22.24
1.4	1	0	16-QAM	22.41	22.46	22.22
1.4	1	2		22.4	22.45	22.17
1.4	1	5		22.43	22.45	22.17
1.4	3	0		22.41	22.42	22.36
1.4	3	1		22.38	22.44	22.35
1.4	3	2		22.41	22.42	22.37
1.4	6	0		21.44	21.37	21.37
3	1	0	QPSK	23.24	23.23	23.19
3	1	7		23.26	23.22	23.21
3	1	14		23.25	23.18	23.17
3	8	0		22.26	22.16	22.23
3	8	4		22.17	22.15	22.22
3	8	7		22.12	22.21	22.29
3	15	0		22.27	22.16	22.25
3	1	0	16-QAM	22.21	22.67	22.47
3	1	7		22.14	22.69	22.48
3	1	14		22.16	22.64	22.45
3	8	0		21.34	21.21	21.24
3	8	4		21.24	21.22	21.24
3	8	7		21.14	21.28	21.31
3	15	0		21.28	21.24	21.2



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.25	23.39	23.31
5	1	12		23.19	23.31	23.25
5	1	24		23.28	23.31	23.31
5	12	0		22.38	22.21	22.46
5	12	6		22.26	22.26	22.29
5	12	11		22.29	22.34	22.27
5	25	0		22.35	22.25	22.34
5	1	0	16-QAM	22.71	22.67	22.79
5	1	12		22.67	22.65	22.82
5	1	24		22.73	22.54	22.81
5	12	0		21.31	21.3	21.33
5	12	6		21.24	21.31	21.27
5	12	11		21.17	21.35	21.3
5	25	0		21.35	21.2	21.26
10	1	0	QPSK	23.33	23.28	23.33
10	1	24		23.34	23.26	23.44
10	1	49		23.28	23.24	23.45
10	25	0		22.33	22.16	22.32
10	25	12		22.27	22.18	22.26
10	25	24		22.19	22.25	22.28
10	50	0		22.33	22.29	22.35
10	1	0	16-QAM	22.46	22.3	22.72
10	1	24		22.41	22.19	22.64
10	1	49		22.49	22.18	22.77
10	25	0		21.38	21.18	21.38
10	25	12		21.25	21.25	21.21
10	25	24		21.29	21.28	21.24
10	50	0		21.38	21.21	21.32



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.37	23.24	23.17
1.4	1	2		23.4	23.25	23.14
1.4	1	5		23.42	23.23	23.16
1.4	3	0		23.25	23.24	23.11
1.4	3	1		23.28	23.22	23.09
1.4	3	2		23.29	23.21	23.09
1.4	6	0		22.26	22.25	22.11
1.4	1	0	16-QAM	22.52	22.5	22.06
1.4	1	2		22.49	22.49	22.06
1.4	1	5		22.55	22.51	22.11
1.4	3	0		22.44	22.43	22.24
1.4	3	1		22.49	22.48	22.24
1.4	3	2		22.44	22.45	22.26
1.4	6	0		21.49	21.39	21.32
3	1	0	QPSK	23.27	23.31	23.21
3	1	7		23.23	23.28	23.15
3	1	14		23.21	23.34	23.13
3	8	0		22.26	22.24	22.23
3	8	4		22.34	22.21	22.12
3	8	7		22.3	22.26	22.06
3	15	0		22.35	22.27	22.19
3	1	0	16-QAM	22.5	22.23	22.57
3	1	7		22.51	22.25	22.52
3	1	14		22.48	22.19	22.56
3	8	0		21.24	21.29	21.2
3	8	4		21.28	21.18	21.11
3	8	7		21.28	21.23	21.06
3	15	0		21.27	21.28	21.09



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.38	23.42	23.33
5	1	12		23.3	23.37	23.23
5	1	24		23.36	23.33	23.25
5	12	0		22.32	22.38	22.11
5	12	6		22.34	22.28	22.23
5	12	11		22.31	22.41	22.17
5	25	0		22.34	22.39	22.14
5	1	0	16-QAM	22.92	22.89	22.53
5	1	12		22.79	22.7	22.49
5	1	24		22.85	22.7	22.48
5	12	0		21.29	21.31	21.3
5	12	6		21.31	21.26	21.2
5	12	11		21.3	21.28	21.07
5	25	0		21.26	21.38	21.17
10	1	0	QPSK	23.43	23.39	23.26
10	1	24		23.43	23.33	23.19
10	1	49		23.52	23.36	23.12
10	25	0		22.23	22.33	22.22
10	25	12		22.3	22.28	22.21
10	25	24		22.31	22.3	22.11
10	50	0		22.25	22.35	22.22
10	1	0	16-QAM	22.6	22.32	22.82
10	1	24		22.54	22.23	22.75
10	1	49		22.55	22.22	22.61
10	25	0		21.29	21.38	21.26
10	25	12		21.34	21.27	21.23
10	25	24		21.26	21.39	21.16
10	50	0		21.37	21.35	21.09



LTE Band 13 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.47	23.31	23.35
5	1	12		23.43	23.36	23.33
5	1	24		23.43	23.37	23.28
5	12	0		22.38	22.36	22.35
5	12	6		22.33	22.3	22.31
5	12	11		22.31	22.31	22.31
5	25	0		22.41	22.4	22.38
5	1	0	16-QAM	22.96	22.73	22.75
5	1	12		22.89	22.82	22.74
5	1	24		22.97	22.74	22.67
5	12	0		21.4	21.33	21.38
5	12	6		21.35	21.28	21.36
5	12	11		21.32	21.28	21.36
5	25	0		21.35	21.41	21.33
10	1	0	QPSK	/	23.4	/
10	1	24		/	23.35	/
10	1	49		/	23.31	/
10	25	0		/	22.39	/
10	25	12		/	22.29	/
10	25	24		/	22.35	/
10	50	0		/	22.33	/
10	1	0	16-QAM	/	22.58	/
10	1	24		/	22.55	/
10	1	49		/	22.5	/
10	25	0		/	21.36	/
10	25	12		/	21.28	/
10	25	24		/	21.29	/
10	50	0		/	21.38	/



LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.34	23.31	23.39
5	1	12		23.2	23.21	23.31
5	1	24		23.22	23.15	23.25
5	12	0		22.24	22.22	22.19
5	12	6		22.16	22.2	22.25
5	12	11		22.27	22.14	22.02
5	25	0		22.26	22.22	22.13
5	1	0	16-QAM	22.81	22.72	22.57
5	1	12		22.86	22.69	22.46
5	1	24		22.84	22.61	22.46
5	12	0		21.34	21.17	21.25
5	12	6		21.27	21.18	21.18
5	12	11		21.27	21.19	21.05
5	25	0		21.26	21.26	21.1
10	1	0	QPSK	23.41	23.27	23.21
10	1	24		23.33	23.25	23.12
10	1	49		23.29	23.26	23.14
10	25	0		22.35	22.21	22.17
10	25	12		22.26	22.19	22.19
10	25	24		22.25	22.2	22.08
10	50	0		22.36	22.25	22.13
10	1	0	16-QAM	22.74	22.52	22.28
10	1	24		22.72	22.47	22.15
10	1	49		22.57	22.37	22.15
10	25	0		21.29	21.21	21.16
10	25	12		21.26	21.2	21.19
10	25	24		21.29	21.14	21.04
10	50	0		21.24	21.19	21.07



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.19	23.18	23.2
1.4	1	2		23.13	23.2	23.17
1.4	1	5		23.14	23.18	23.19
1.4	3	0		23.11	23.17	23.21
1.4	3	1		23.09	23.15	23.22
1.4	3	2		23.14	23.14	23.22
1.4	6	0		21.87	22.19	22.2
1.4	1	0	16-QAM	22.26	22.44	22.13
1.4	1	2		22.3	22.39	22.15
1.4	1	5		22.35	22.45	22.1
1.4	3	0		22.37	22.41	22.32
1.4	3	1		22.35	22.41	22.32
1.4	3	2		22.34	22.39	22.33
1.4	6	0		21.37	21.39	21.36
3	1	0	QPSK	23.21	23.2	23.18
3	1	7		23.12	23.21	23.17
3	1	14		23.14	23.19	23.27
3	8	0		22.11	22.22	22.2
3	8	4		22.1	22.2	22.17
3	8	7		22.1	22.21	22.18
3	15	0		22.14	22.24	22.24
3	1	0	16-QAM	22.57	22.46	22.13
3	1	7		22.49	22.48	22.19
3	1	14		22.56	22.39	22.18
3	8	0		21.08	21.22	21.21
3	8	4		21.14	21.2	21.21
3	8	7		21.15	21.24	21.2
3	15	0		21.17	21.19	21.26



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.28	23.26	23.38
5	1	12		23.25	23.27	23.44
5	1	24		23.19	23.24	23.41
5	12	0		22.19	22.28	22.28
5	12	6		22.16	22.24	22.24
5	12	11		22.12	22.26	22.26
5	25	0		22.21	22.32	22.31
5	1	0	16-QAM	22.67	22.63	22.73
5	1	12		22.62	22.65	22.73
5	1	24		22.64	22.6	22.75
5	12	0		21.18	21.31	21.29
5	12	6		21.14	21.29	21.24
5	12	11		21.12	21.32	21.2
5	25	0		21.23	21.29	21.23
10	1	0	QPSK	23.16	23.38	23.29
10	1	24		23.11	23.36	23.3
10	1	49		23.17	23.35	23.3
10	25	0		22.18	22.3	22.33
10	25	12		22.15	22.27	22.27
10	25	24		22.22	22.3	22.27
10	50	0		22.2	22.3	22.28
10	1	0	16-QAM	22.42	22.25	22.68
10	1	24		22.34	22.22	22.62
10	1	49		22.41	22.26	22.69
10	25	0		21	21.3	21.31
10	25	12		21.13	21.25	21.39
10	25	24		21.2	21.26	21.14
10	50	0		21.21	21.28	21.27



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.31	23.37	23.28
15	1	37		23.32	23.34	23.3
15	1	74		23.37	23.32	23.37
15	36	0		22.23	22.38	22.31
15	36	18		22.3	22.38	22.29
15	36	39		22.37	22.31	22.24
15	75	0		22.31	22.35	22.26
15	1	0	16-QAM	22.65	22.55	22.41
15	1	38		22.66	22.51	22.43
15	1	75		22.69	22.54	22.41
15	36	0		21.21	21.38	21.27
15	36	18		21.21	21.34	21.23
15	36	39		21.31	21.33	21.23
15	75	0		21.14	21.32	21.33
20	1	0	QPSK	23.31	23.33	23.38
20	1	49		23.25	23.31	23.42
20	1	99		23.28	23.3	23.44
20	50	0		22.26	22.31	22.25
20	50	24		22.16	22.29	22.26
20	50	49		22.25	22.27	22.32
20	100	0		22.23	22.31	22.27
20	1	0	16-QAM	22.49	22.7	22.64
20	1	49		22.53	22.66	22.67
20	1	99		22.55	22.65	22.74
20	50	0		21.19	21.38	21.33
20	50	24		21.27	21.37	21.32
20	50	49		21.32	21.32	21.23
20	100	0		21.31	21.34	21.27



LTE Band 71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	21.19	21.58	21.13
5	1	12		21.24	21.41	21.22
5	1	24		21.19	21.35	20.68
5	12	0		20.19	20.59	20.18
5	12	6		20.15	20.59	20.23
5	12	11		20.18	20.48	20.15
5	25	0		20.17	20.57	20.1
5	1	0	16-QAM	20.57	20.95	20.61
5	1	12		20.45	20.77	20.65
5	1	24		20.48	20.73	20.23
5	12	0		19.22	19.59	19.05
5	12	6		19.23	19.53	19.15
5	12	11		19.19	19.45	19.11
5	25	0		19.25	19.5	19.06
10	1	0	QPSK	21.5	21.63	21.61
10	1	24		21.22	21.33	21.4
10	1	49		21.44	21.6	19.92
10	25	0		20.27	20.64	20.3
10	25	12		20.27	20.63	20.14
10	25	24		20.24	20.53	19.98
10	50	0		20.29	20.55	20.2
10	1	0	16-QAM	20.78	20.82	20.47
10	1	24		20.59	20.64	20.26
10	1	49		20.8	20.74	18.55
10	25	0		19.35	19.6	19.34
10	25	12		19.33	19.49	19.16
10	25	24		19.24	19.47	19.03
10	50	0		19.37	19.62	19.16



LTE Band 71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	21.04	21.23	21.46
15	1	37		21.15	21.32	21.15
15	1	74		20.38	21.21	20.49
15	36	0		20.43	20.65	20.51
15	36	18		20.32	20.48	20.18
15	36	39		20.39	20.27	20.12
15	75	0		20.41	20.53	20.31
15	1	0	16-QAM	20.9	20.9	20.65
15	1	38		20.44	20.13	21.37
15	1	75		20.84	20.49	19.18
15	36	0		19.53	19.64	19.41
15	36	18		19.46	19.49	19.06
15	36	39		19.44	19.4	19.01
15	75	0		19.38	19.6	19.31
20	1	0	QPSK	21.43	21.8	21.67
20	1	49		21.07	21.27	22.2
20	1	99		21.36	21.33	19.78
20	50	0		20.5	20.63	20.55
20	50	24		20.37	20.38	20.11
20	50	49		20.35	20.35	20.04
20	100	0		20.44	20.53	20.26
20	1	0	16-QAM	20.35	20.48	20.67
20	1	49		20.43	20.49	20.41
20	1	99		19.64	20.49	19.91
20	50	0		19.55	19.68	19.67
20	50	24		19.29	19.48	19.29
20	50	49		19.41	19.26	19.11
20	100	0		19.36	19.53	19.38



10.1 Tune Up

BW[MHz]	RB Size	Mode	Band 2	Band 4	Band 5	Band 12
1.4	1	QPSK	19±1dBm	22.5±1dBm	22.5±1dBm	22.5±1dBm
1.4	3		19±1dBm	22.5±1dBm	22.5±1dBm	22.5±1dBm
1.4	6		18±1dBm	21.5±1dBm	21.5±1dBm	21.5±1dBm
1.4	1	16- QAM	18±1dBm	21.5±1dBm	21.5±1dBm	22±1dBm
1.4	3		18±1dBm	21.5±1dBm	21.5±1dBm	21.5±1dBm
1.4	6		17±1dBm	20.5±1dBm	20.5±1dBm	20.5±1dBm
3	1	QPSK	19±1dBm	22.5±1dBm	22.5±1dBm	22.5±1dBm
3	8		18±1dBm	21.5±1dBm	21.5±1dBm	21.5±1dBm
3	15		18±1dBm	21.5±1dBm	21.5±1dBm	21.5±1dBm
3	1	16- QAM	18.5±1dBm	22±1dBm	22±1dBm	22±1dBm
3	8		17±1dBm	20.5±1dBm	20.5±1dBm	20.5±1dBm
3	15		17±1dBm	20.5±1dBm	20.5±1dBm	20.5±1dBm
5	1	QPSK	19±1dBm	22.5±1dBm	22.5±1dBm	22.5±1dBm
5	12		18±1dBm	21.5±1dBm	21.5±1dBm	21.5±1dBm
5	25		18±1dBm	21.5±1dBm	21.5±1dBm	21.5±1dBm
5	1	16- QAM	18.5±1dBm	22±1dBm	22±1dBm	22±1dBm
5	12		17±1dBm	20.5±1dBm	20.5±1dBm	20.5±1dBm
5	25		17±1dBm	20.5±1dBm	20.5±1dBm	20.5±1dBm
10	1	QPSK	19±1dBm	22.5±1dBm	22.5±1dBm	22.6±1dBm
10	25		18±1dBm	21.5±1dBm	21.5±1dBm	21.5±1dBm
10	50		18±1dBm	21.5±1dBm	21.5±1dBm	21.5±1dBm
10	1	16- QAM	18.5±1dBm	22±1dBm	22±1dBm	22±1dBm
10	25		17±1dBm	20.5±1dBm	20.5±1dBm	20.5±1dBm
10	50		17±1dBm	20.5±1dBm	20.5±1dBm	20.5±1dBm
15	1	QPSK	19±1dBm	22.5±1dBm	N/A	N/A
15	36		18±1dBm	21.5±1dBm	N/A	N/A
15	75		18±1dBm	21.5±1dBm	N/A	N/A
15	1	16- QAM	18.5±1dBm	22±1dBm	N/A	N/A
15	36		17±1dBm	20.5±1dBm	N/A	N/A
15	75		17±1dBm	20.5±1dBm	N/A	N/A
20	1	QPSK	19±1dBm	22.5±1dBm	N/A	N/A
20	50		18±1dBm	21.5±1dBm	N/A	N/A
20	100		18±1dBm	21.5±1dBm	N/A	N/A
20	1	16- QAM	18.5±1dBm	22±1dBm	N/A	N/A
20	50		17±1dBm	20.5±1dBm	N/A	N/A
20	100		117±1dBm	20.5±1dBm	N/A	N/A



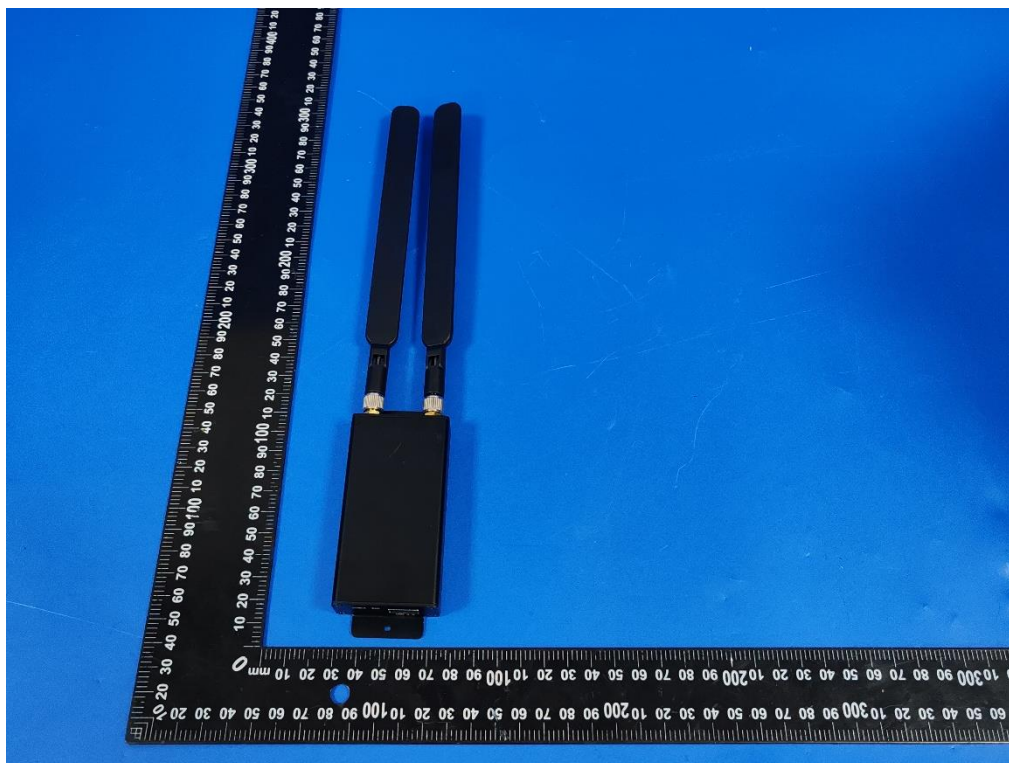
BW[MHz]	RB Size	Mode	Band 13	Band 17	Band 66	Band 71
1.4	1	QPSK	N/A	N/A	22.5±1dBm	N/A
1.4	3		N/A	N/A	22.5±1dBm	N/A
1.4	6		N/A	N/A	21.5±1dBm	N/A
1.4	1	16- QAM	N/A	N/A	21.5±1dBm	N/A
1.4	3		N/A	N/A	21.5±1dBm	N/A
1.4	6		N/A	N/A	20.5±1dBm	N/A
3	1	QPSK	N/A	N/A	22.5±1dBm	N/A
3	8		N/A	N/A	21.5±1dBm	N/A
3	15		N/A	N/A	21.5±1dBm	N/A
3	1	16- QAM	N/A	N/A	22±1dBm	N/A
3	8		N/A	N/A	20.5±1dBm	N/A
3	15		N/A	N/A	20.5±1dBm	N/A
5	1	QPSK	22.5±1dBm	22.5±1dBm	22.5±1dBm	21±1dBm
5	12		21.5±1dBm	21.5±1dBm	21.5±1dBm	20±1dBm
5	25		21.5±1dBm	21.5±1dBm	21.5±1dBm	20±1dBm
5	1	16- QAM	22±1dBm	22±1dBm	22±1dBm	20±1dBm
5	12		22.5±1dBm	20.5±1dBm	20.5±1dBm	19±1dBm
5	25		20.5±1dBm	20.5±1dBm	20.5±1dBm	19±1dBm
10	1	QPSK	22.6±1dBm	22.5±1dBm	22.5±1dBm	21±1dBm
10	25		21.5±1dBm	21.5±1dBm	21.5±1dBm	20±1dBm
10	50		21.5±1dBm	21.5±1dBm	21.5±1dBm	20±1dBm
10	1	16- QAM	22±1dBm	22±1dBm	22±1dBm	20±1dBm
10	25		20.5±1dBm	20.5±1dBm	20.5±1dBm	19±1dBm
10	50		20.5±1dBm	20.5±1dBm	20.5±1dBm	19±1dBm
15	1	QPSK	N/A	N/A	22.5±1dBm	21.5±1dBm
15	36		N/A	N/A	21.5±1dBm	20±1dBm
15	75		N/A	N/A	21.5±1dBm	20±1dBm
15	1	16- QAM	N/A	N/A	22±1dBm	20.5±1dBm
15	36		N/A	N/A	20.5±1dBm	19±1dBm
15	75		N/A	N/A	20.5±1dBm	19±1dBm
20	1	QPSK	N/A	N/A	22.5±1dBm	21.5±1dBm
20	50		N/A	N/A	21.5±1dBm	20±1dBm
20	100		N/A	N/A	21.5±1dBm	20±1dBm
20	1	16- QAM	N/A	N/A	22±1dBm	20±1dBm
20	50		N/A	N/A	20.5±1dBm	19±1dBm
20	100		N/A	N/A	20.5±1dBm	19±1dBm



11. EUT and Test Setup Photo

11.1 EUT Photos

Front side

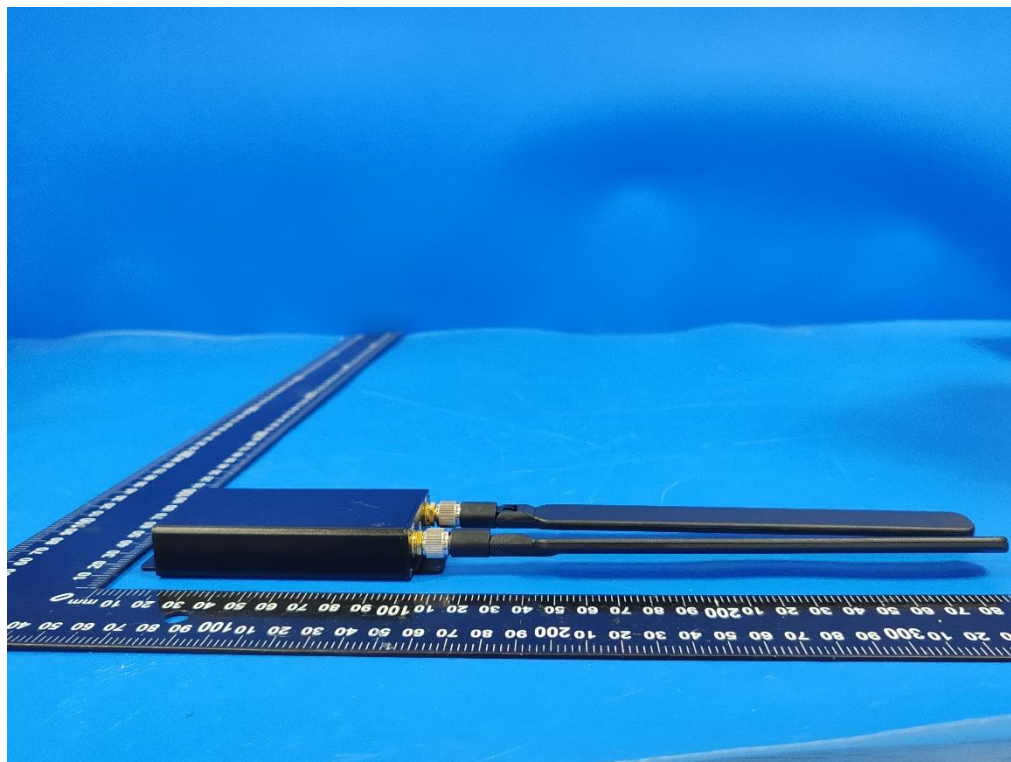


Back side

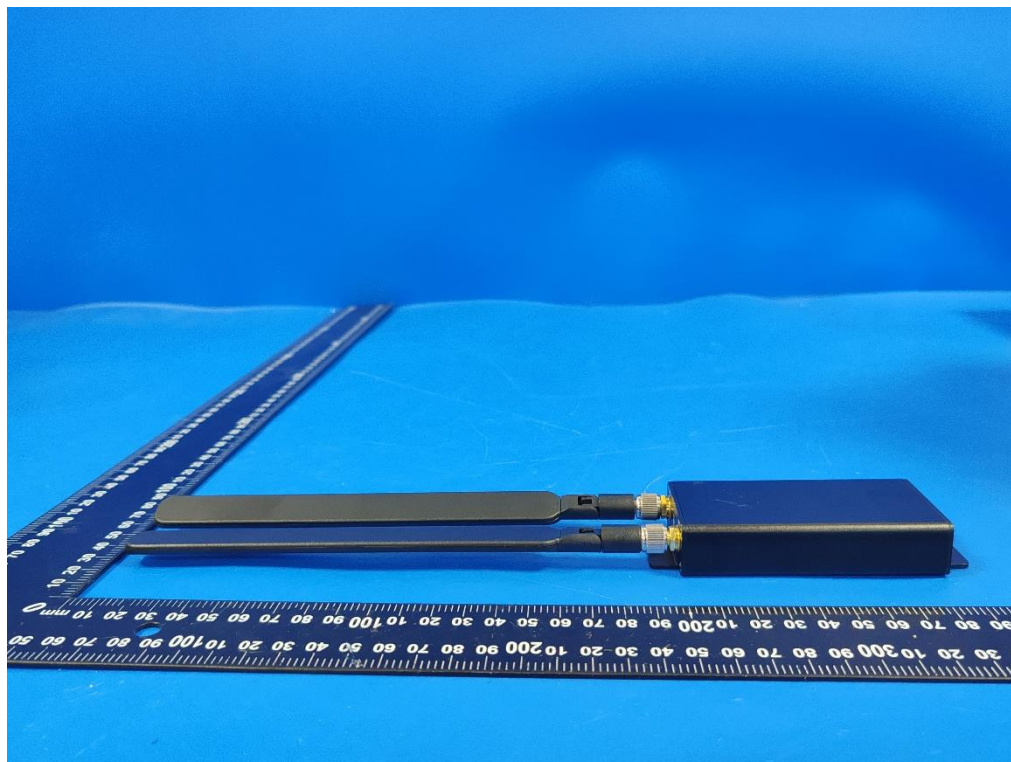




Right Edge

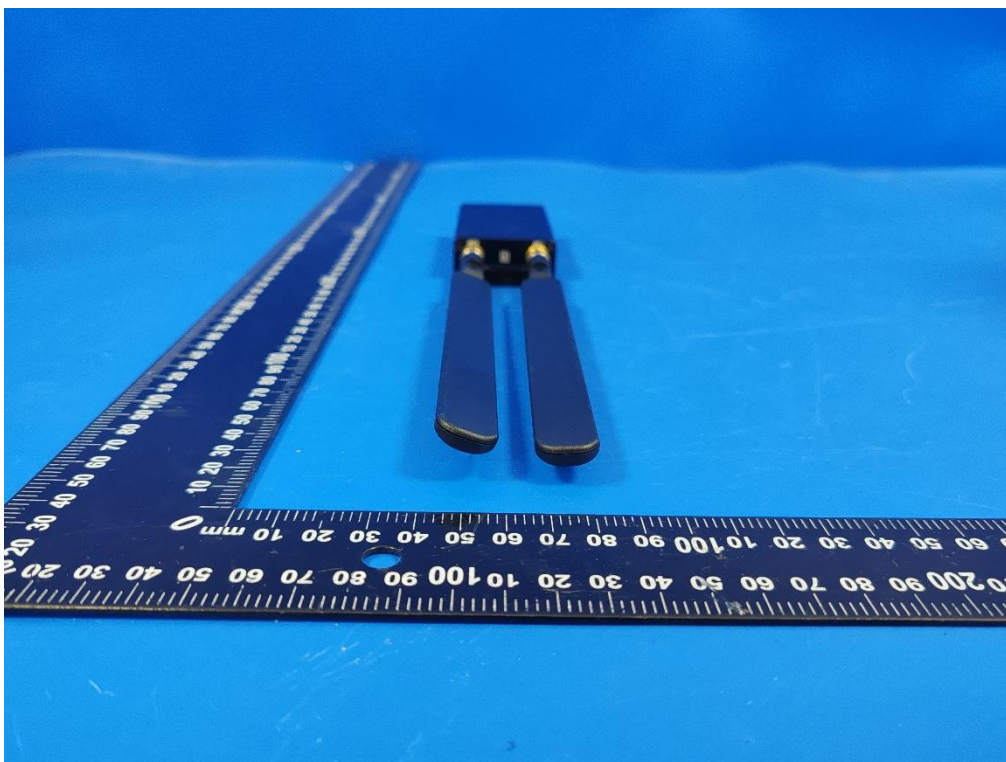


Left Edge

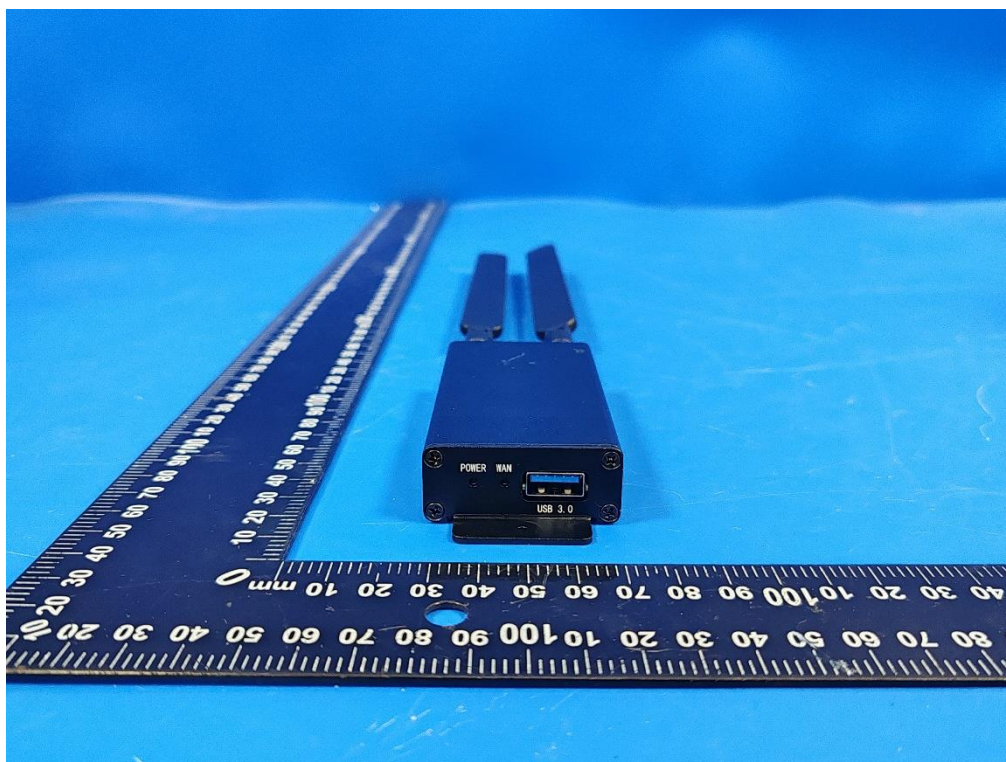




Top Edge



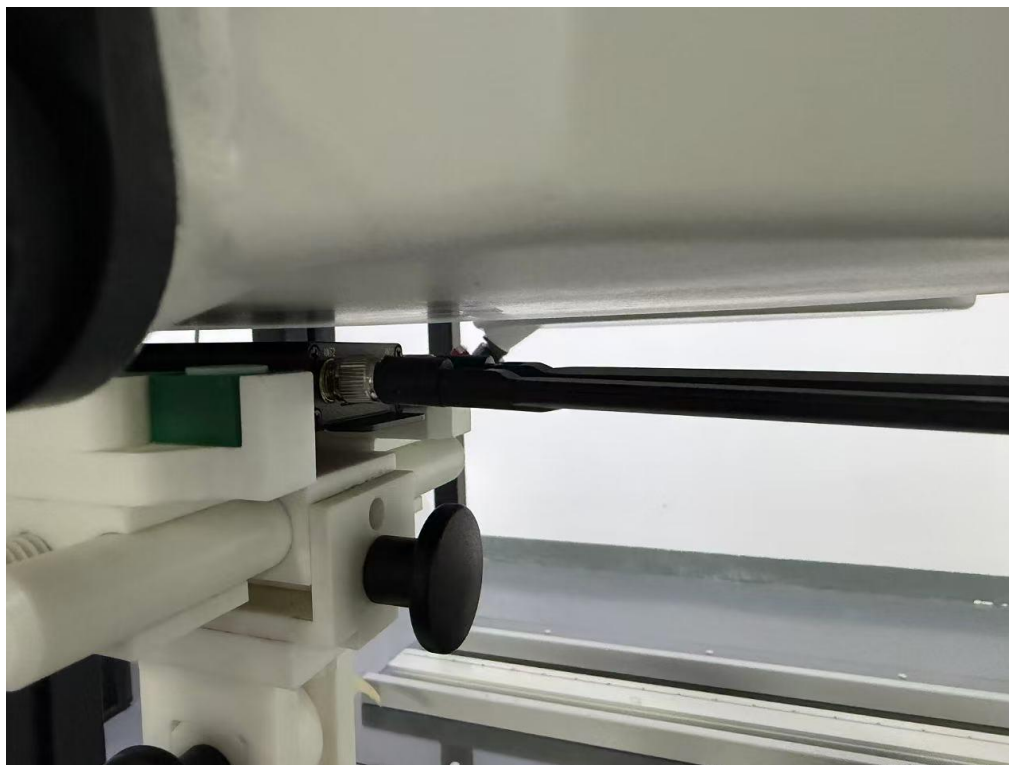
Bottom Edge



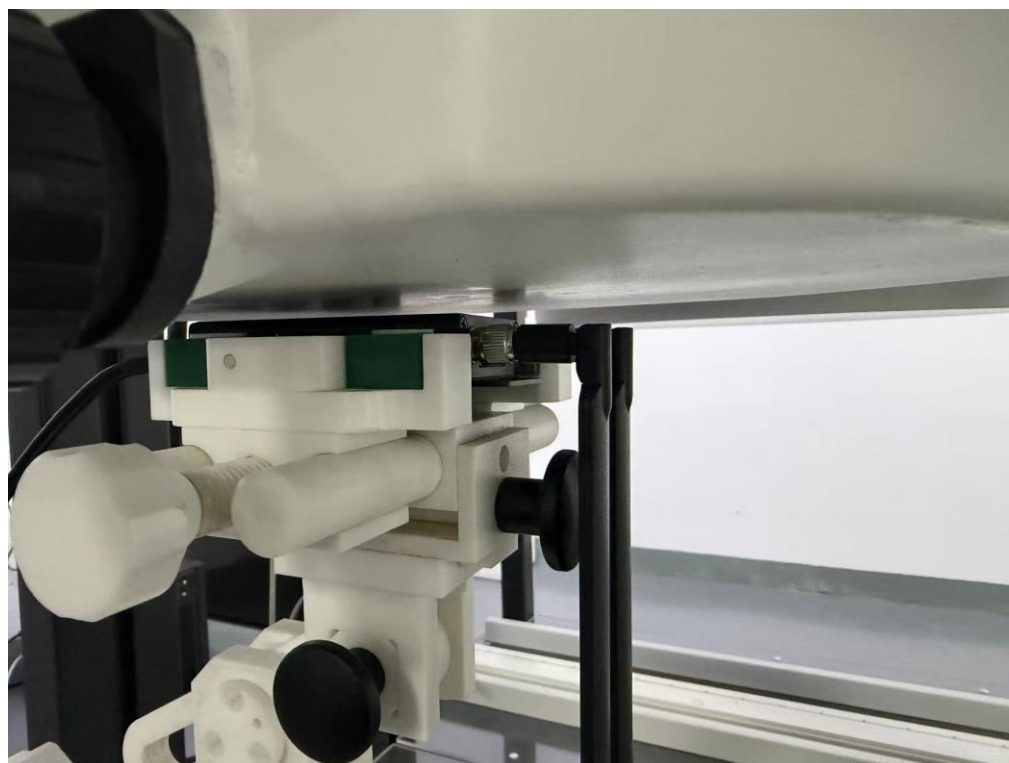


11.2 Setup Photos

Body Front side Antenna Horizontal (separation distance is 5mm)

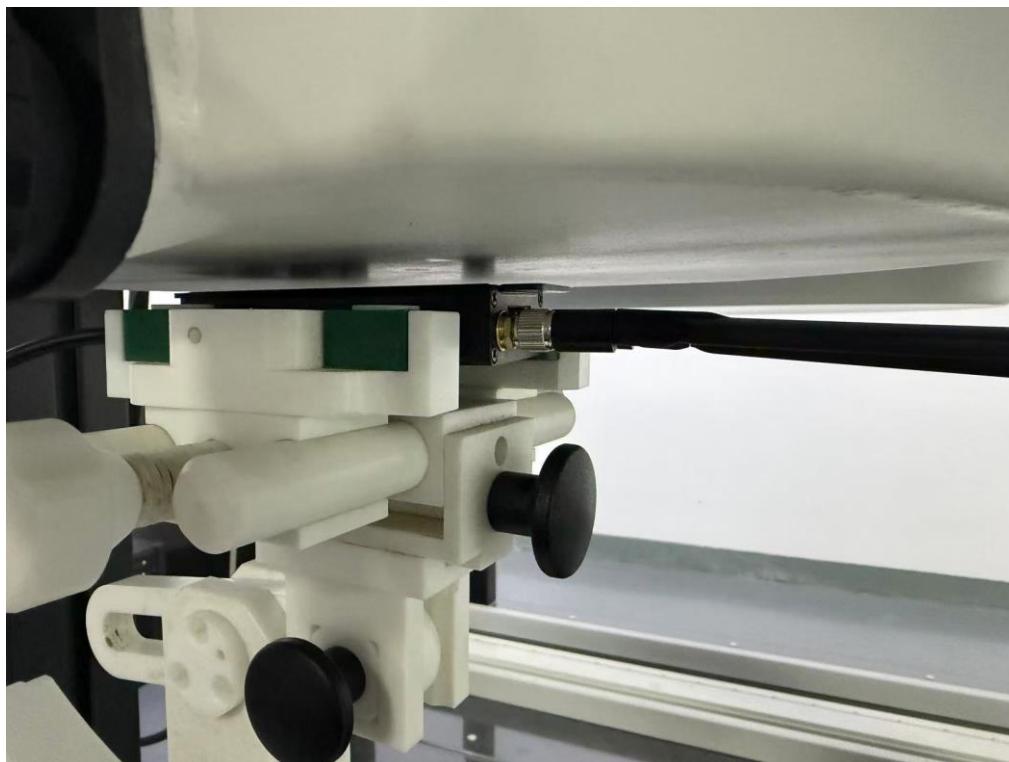


Body Front side Antenna Vertical (separation distance is 5mm)

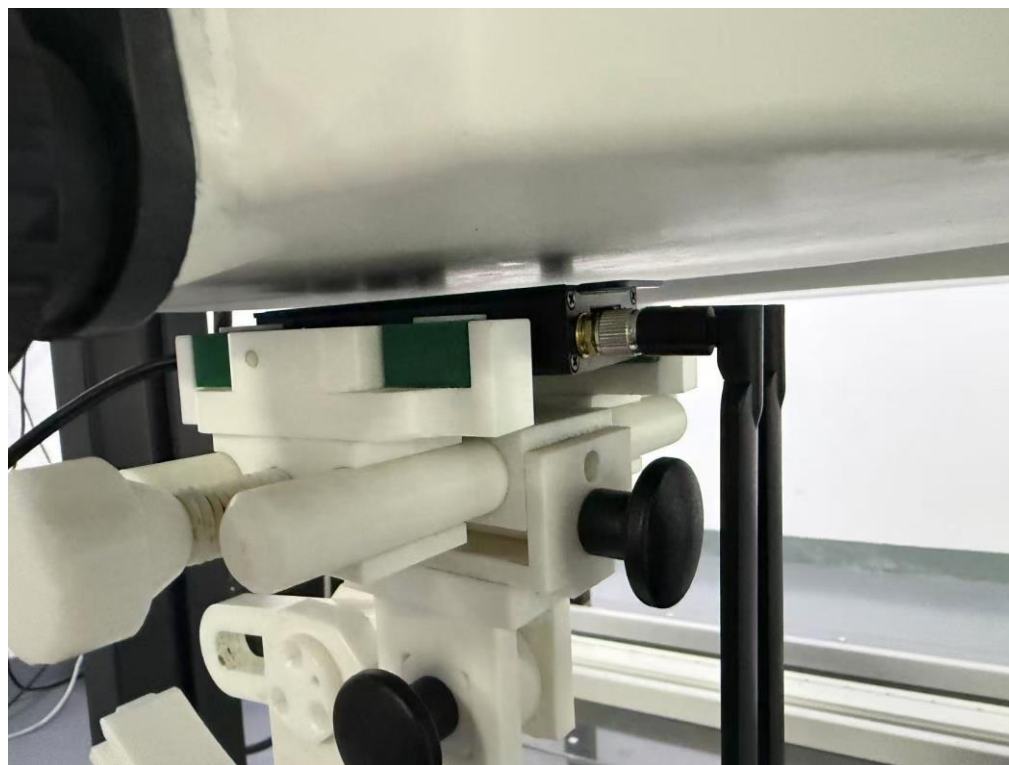




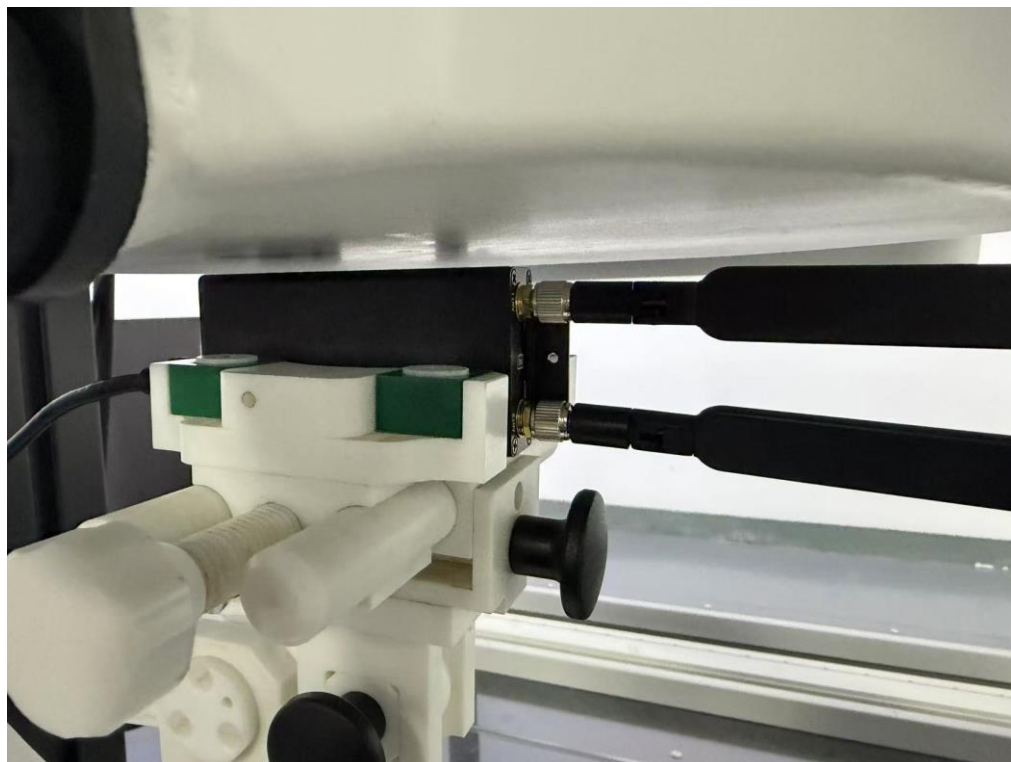
Body Back side Antenna Horizontal (separation distance is 5mm)



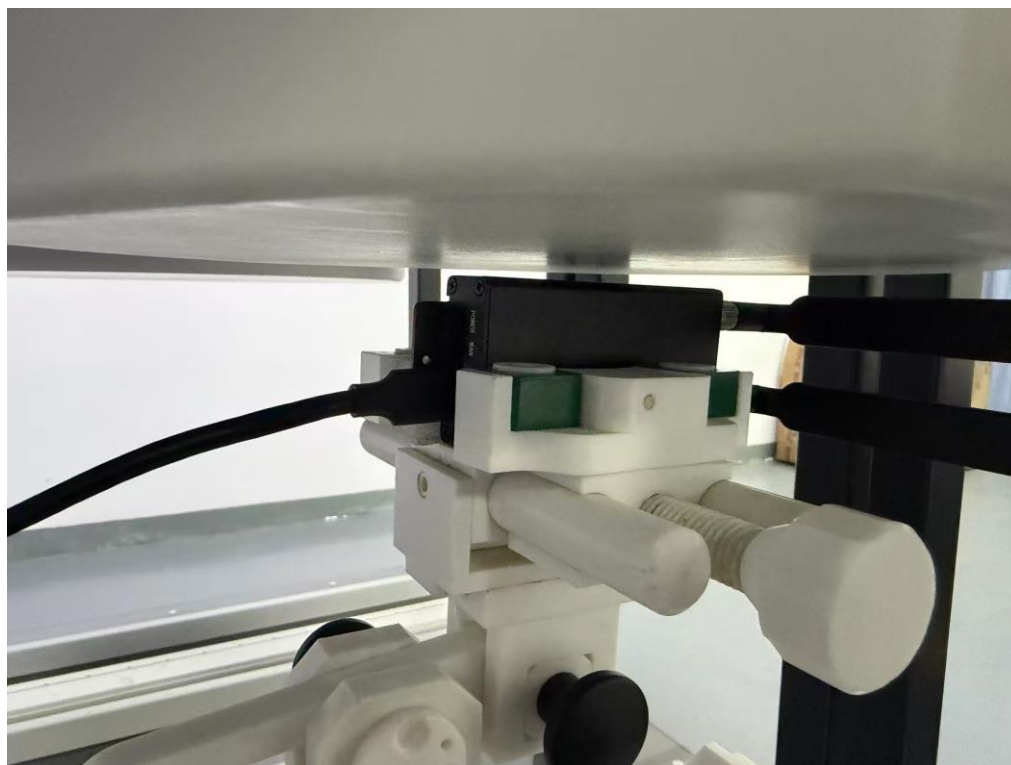
Body Back side Antenna Vertical (separation distance is 5mm)



Body Left side Antenna Horizontal (separation distance is 5mm)

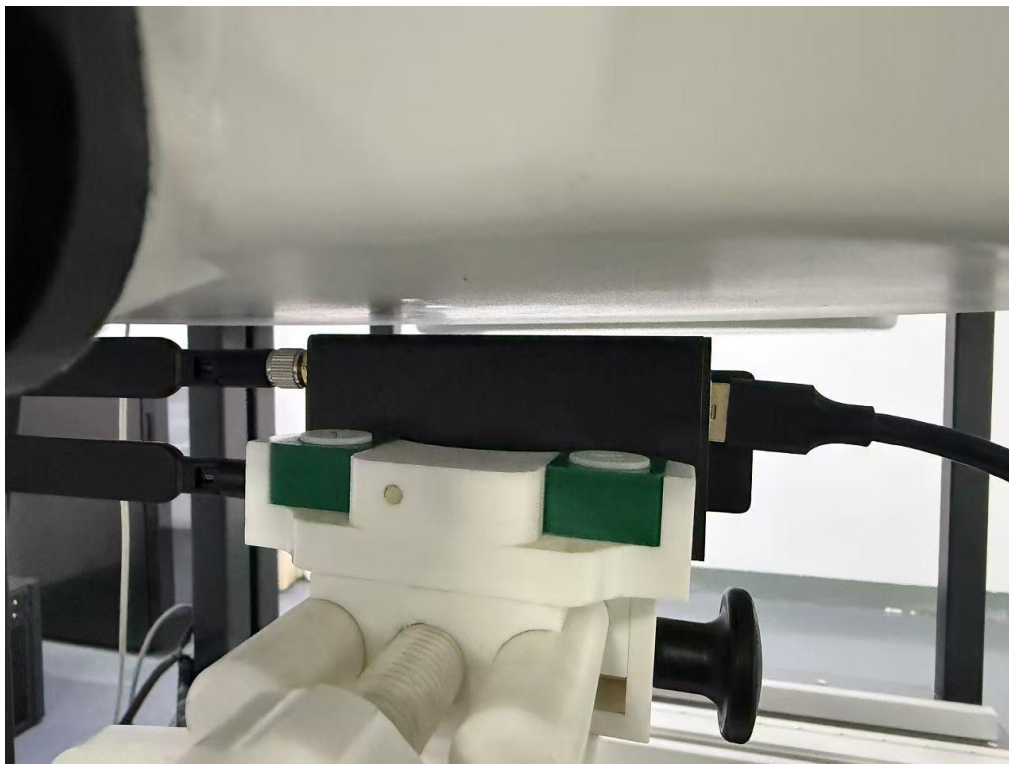


Body Left side Antenna Vertical (separation distance is 5mm)

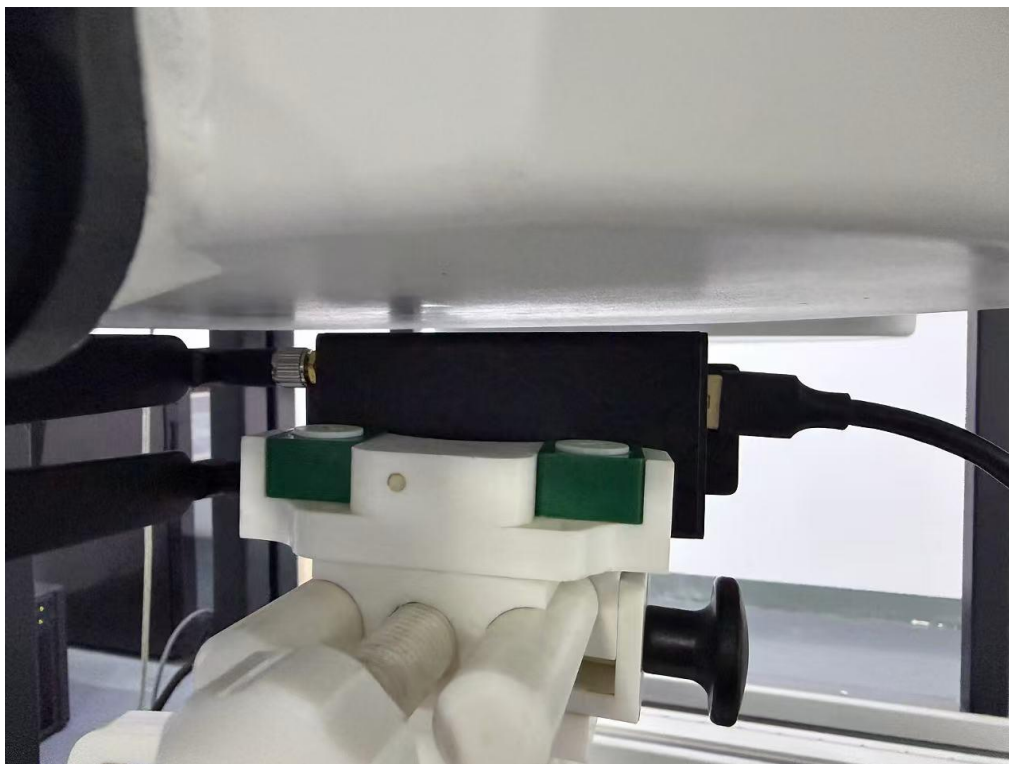




Body Right side Antenna Horizontal (separation distance is 5mm)

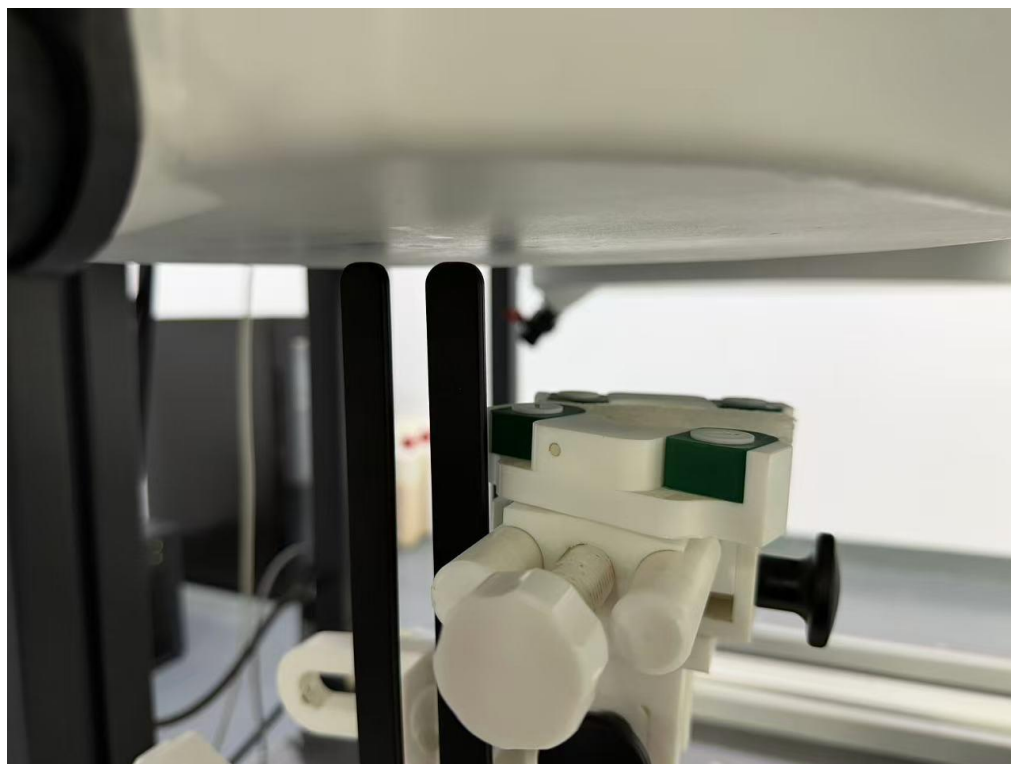


Body Right side Antenna Vertical (separation distance is 5mm)

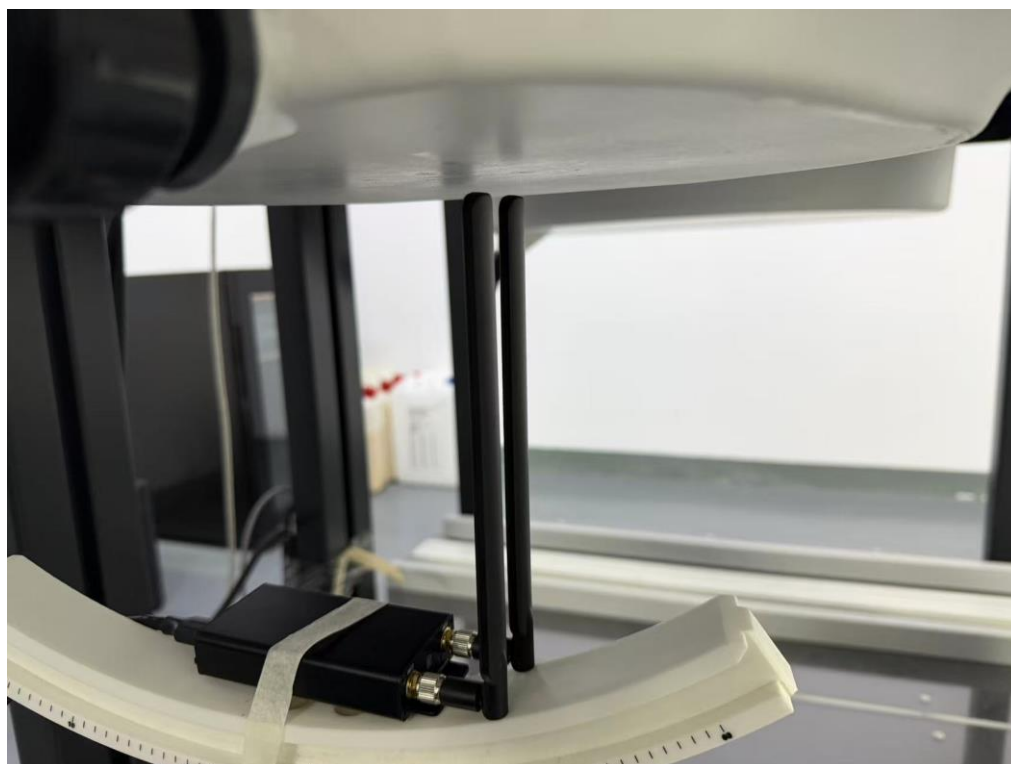




Body Top side Antenna Horizontal (separation distance is 5mm)

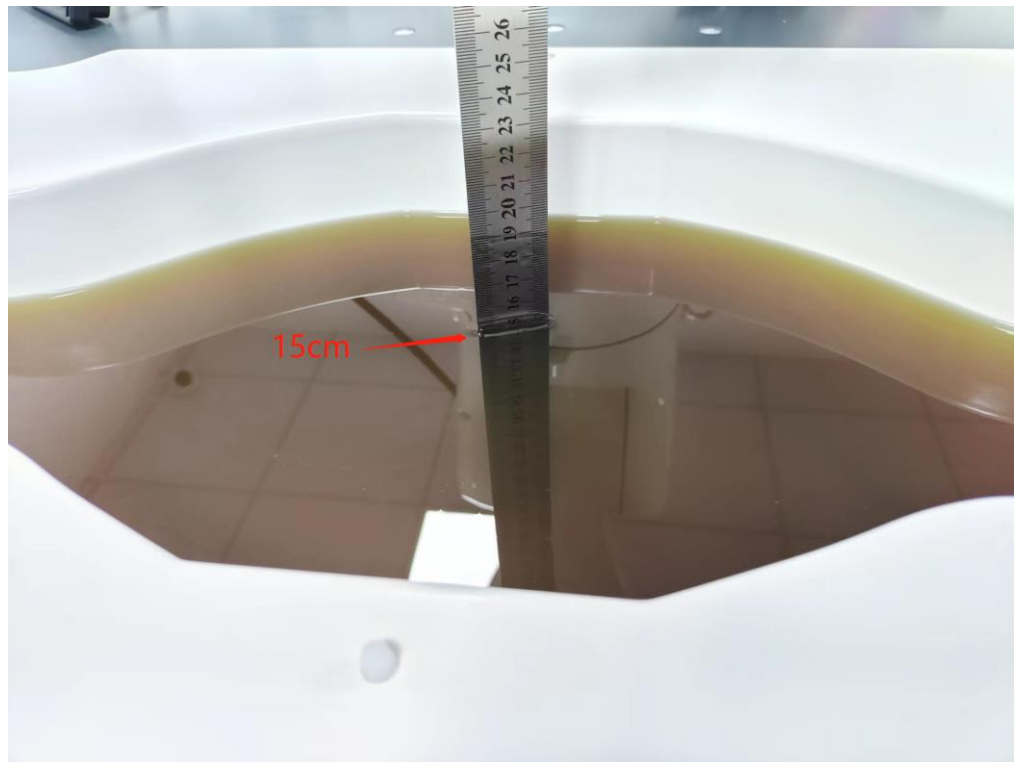


Body Right side Antenna Vertical (separation distance is 5mm)





Liquid depth (15 cm)





12. SAR Result Summary

12.1 Body-worn 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 Antenna Horizontal	1880	0.271	3.55	20.00	19.92	1.019	0.276	/
			1	0	Front side Antenna Vertical	1880	0.225	-2.08	20.00	19.92	1.019	0.229	/
			50	0	Front side Antenna Horizontal	1880	0.228	-3.51	19.00	18.94	1.014	0.231	/
			50	0	Front side Antenna Vertical	1880	0.197	-3.96	19.00	18.94	1.014	0.200	/
			1	0	Back Side Antenna Horizontal	1880	0.108	-1.13	20.00	19.92	1.019	0.110	/
			1	0	Back Side Antenna Vertical	1880	0.198	-2.52	20.00	19.92	1.019	0.202	/
			50	0	Back Side Antenna Horizontal	1880	0.095	0.63	19.00	18.94	1.014	0.096	/
			50	0	Back Side Antenna Vertical	1880	0.168	1.55	19.00	18.94	1.014	0.170	/
			1	0	Left Side Antenna Horizontal	1880	0.080	-1.90	20.00	19.92	1.019	0.081	/
			1	0	Left Side Antenna Vertical	1880	0.094	2.23	20.00	19.92	1.019	0.096	/
			50	0	Left Side Antenna Horizontal	1880	0.071	-0.43	19.00	18.94	1.014	0.072	/
			50	0	Left Side Antenna Vertical	1880	0.082	-0.86	19.00	18.94	1.014	0.083	/
			1	0	Right Side Antenna Horizontal	1880	0.193	2.20	20.00	19.92	1.019	0.197	/
			1	0	Right Side Antenna Vertical	1880	0.120	-2.21	20.00	19.92	1.019	0.122	/
			50	0	Right Side Antenna Horizontal	1880	0.155	-1.09	19.00	18.94	1.014	0.157	/
			50	0	Right Side Antenna Vertical	1880	0.114	0.18	19.00	18.94	1.014	0.116	/
			1	0	Top Side Antenna Horizontal	1880	0.318	3.35	20.00	19.92	1.019	0.324	1
			1	0	Top Side Antenna Vertical	1880	0.328	2.14	20.00	19.92	1.019	0.334	/



			50	0	Top Side Antenna Horizontal	1880	0.258	0.89	19.00	18.94	1.014	0.262	/
			50	0	Top Side Antenna Vertical	1880	0.272	-0.99	19.00	18.94	1.014	0.276	/
LTE Band 4	20M	QPSK	1	0	Front side Antenna Horizontal	1745	0.467	-0.95	23.50	23.39	1.026	0.479	/
			1	0	Front side Antenna Vertical	1720	0.811	0.30	23.50	23.18	1.076	0.873	/
			1	0	Front side Antenna Vertical	1732.5	0.821	1.89	23.50	23.20	1.072	0.880	/
			1	0	Front side Antenna Vertical	1745	0.873	-3.91	23.50	23.39	1.026	0.895	/
			50	0	Front side Antenna Horizontal	1745	0.38	2.36	23.50	23.39	1.026	0.390	/
			50	0	Front side Antenna Vertical	1745	0.693	2.47	23.50	23.39	1.026	0.711	/
			1	0	Back Side Antenna Horizontal	1745	0.472	0.30	23.50	23.39	1.026	0.484	/
			1	0	Back Side Antenna Vertical	1745	0.862	1.76	23.50	23.39	1.026	0.884	/
			50	0	Back Side Antenna Horizontal	1745	0.38	3.21	22.50	22.25	1.059	0.403	/
			50	0	Back Side Antenna Vertical	1745	0.704	2.03	22.50	22.25	1.059	0.746	/
			1	0	Left Side Antenna Horizontal	1745	0.188	3.88	23.50	23.39	1.026	0.193	/
			1	0	Left Side Antenna Vertical	1745	0.308	3.64	23.50	23.39	1.026	0.316	/
			50	0	Left Side Antenna Horizontal	1745	0.151	2.57	22.50	22.25	1.059	0.160	/
			50	0	Left Side Antenna Vertical	1745	0.265	-3.05	22.50	22.25	1.059	0.281	/
			1	0	Right Side Antenna Horizontal	1745	0.408	2.00	23.50	23.39	1.026	0.418	/
			1	0	Right Side Antenna Vertical	1745	0.334	3.58	23.50	23.39	1.026	0.343	/
			50	0	Right Side Antenna Horizontal	1745	0.332	0.89	22.50	22.25	1.059	0.352	/
			50	0	Right Side Antenna Vertical	1745	0.28	0.70	22.50	22.25	1.059	0.297	/
			1	0	Top Side Antenna Horizontal	1745	0.533	-0.89	23.50	23.39	1.026	0.547	/



			1	0	Top Side Antenna Vertical	1720	0.928	0.24	23.50	23.18	1.076	0.999	/
			1	0	Top Side Antenna Vertical	1732.5	0.937	1.11	23.50	23.20	1.072	1.004	/
			1	0	Top Side Antenna Vertical	1745	1.017	-1.79	23.50	23.39	1.026	1.043	2
			50	0	Top Side Antenna Horizontal	1745	0.435	-3.08	22.50	22.25	1.059	0.461	/
			50	0	Top Side Antenna Vertical	1745	0.745	-1.84	22.50	22.25	1.059	0.789	/
LTE Band 5	10M	QPSK	1	0	Front side Antenna Horizontal	844	0.027	-3.08	23.50	23.45	1.012	0.027	/
			1	0	Front side Antenna Vertical	844	0.729	-1.69	23.50	23.45	1.012	0.737	/
			25	0	Front side Antenna Horizontal	829	0.033	1.81	22.50	22.33	1.040	0.034	/
			25	0	Front side Antenna Vertical	829	0.585	2.20	22.50	22.33	1.040	0.608	/
			1	0	Back Side Antenna Horizontal	844	0.034	1.31	23.50	23.45	1.012	0.034	/
			1	0	Back Side Antenna Vertical	844	0.717	-3.19	23.50	23.45	1.012	0.725	/
			25	0	Back Side Antenna Horizontal	829	0.033	1.73	22.50	22.33	1.040	0.034	/
			25	0	Back Side Antenna Vertical	829	0.588	1.10	22.50	22.33	1.040	0.611	/
			1	0	Left Side Antenna Horizontal	844	0.026	-2.96	23.50	23.45	1.012	0.026	/
			1	0	Left Side Antenna Vertical	844	0.261	0.55	23.50	23.45	1.012	0.264	/
			25	0	Left Side Antenna Horizontal	829	0.021	-2.01	22.50	22.33	1.040	0.022	/
			25	0	Left Side Antenna Vertical	829	0.217	1.34	22.50	22.33	1.040	0.226	/
			1	0	Right Side Antenna Horizontal	844	0.042	3.57	23.50	23.45	1.012	0.042	/
			1	0	Right Side Antenna Vertical	844	0.27	-3.52	23.50	23.45	1.012	0.273	/
			25	0	Right Side Antenna Horizontal	829	0.035	-2.68	22.50	22.33	1.040	0.036	/
			25	0	Right Side Antenna Vertical	829	0.221	3.73	22.50	22.33	1.040	0.230	/



			1	0	Top Side Antenna Horizontal	844	0.033	1.44	23.50	23.45	1.012	0.033	/
			1	0	Top Side Antenna Vertical	827	0.757	0.51	23.50	23.28	1.052	0.796	/
			1	0	Top Side Antenna Vertical	836.5	0.731	1.28	23.50	23.24	1.062	0.776	/
			1	0	Top Side Antenna Vertical	844	0.842	-0.11	23.50	23.45	1.012	0.852	3
			25	0	Top Side Antenna Horizontal	829	0.032	0.68	22.50	22.33	1.040	0.033	/
			25	0	Top Side Antenna Vertical	829	0.681	3.67	22.50	22.33	1.040	0.708	/
LTE Band 12	10M	QPSK	1	0	Front side Antenna Horizontal	704	0.085	-1.43	23.60	23.52	1.019	0.087	/
			1	0	Front side Antenna Vertical	704	0.91	2.98	23.60	23.52	1.019	0.927	/
			1	0	Front side Antenna Vertical	707.5	0.836	-0.35	23.60	23.39	1.050	0.877	/
			1	0	Front side Antenna Vertical	711	0.841	-1.10	23.60	23.26	1.081	0.909	/
			25	0	Front side Antenna Horizontal	707.5	0.079	0.45	22.50	22.33	1.040	0.082	/
			25	0	Front side Antenna Vertical	707.5	0.738	-1.24	22.50	22.33	1.040	0.767	/
			1	0	Back Side Antenna Horizontal	704	0.098	-2.18	23.60	23.52	1.019	0.100	/
			1	0	Back Side Antenna Vertical	704	0.693	2.60	23.60	23.52	1.019	0.706	/
			25	0	Back Side Antenna Horizontal	707.5	0.086	-1.23	22.50	22.33	1.040	0.089	/
			25	0	Back Side Antenna Vertical	707.5	0.571	0.06	22.50	22.33	1.040	0.594	/
			1	0	Left Side Antenna Horizontal	704	0.048	2.64	23.60	23.52	1.019	0.049	/
			1	0	Left Side Antenna Vertical	704	0.329	3.96	23.60	23.52	1.019	0.335	/
			25	0	Left Side Antenna Horizontal	707.5	0.047	1.72	22.50	22.33	1.040	0.049	/
			25	0	Left Side Antenna Vertical	707.5	0.268	3.39	22.50	22.33	1.040	0.279	/
			1	0	Right Side Antenna Horizontal	704	0.084	0.07	23.60	23.52	1.019	0.086	/
			1	0	Right Side Antenna Vertical	704	0.349	2.31	23.60	23.52	1.019	0.355	/



			25	0	Right Side Antenna Horizontal	707.5	0.082	1.00	22.50	22.33	1.040	0.085	/
			25	0	Right Side Antenna Vertical	707.5	0.293	1.42	22.50	22.33	1.040	0.305	/
			1	0	Top Side Antenna Horizontal	704	0.094	-2.23	23.60	23.52	1.019	0.096	/
			1	0	Top Side Antenna Vertical	704	1.063	-3.52	23.60	23.52	1.019	1.083	4
			1	0	Top Side Antenna Vertical	707.5	0.973	0.27	23.60	23.39	1.050	1.021	/
			1	0	Top Side Antenna Vertical	711	0.951	1.93	23.60	23.26	1.081	1.028	/
			25	0	Top Side Antenna Horizontal	707.5	0.089	-2.89	22.50	22.33	1.040	0.093	/
			25	0	Top Side Antenna Vertical	707.5	0.768	2.20	22.50	22.33	1.040	0.799	/
LTE Band 13	10M	QPSK	1	0	Front side Antenna Horizontal	782	0.108	-2.80	23.60	23.40	1.047	0.113	/
			1	0	Front side Antenna Vertical	782	1.226	2.67	23.60	23.40	1.047	1.284	/
			25	0	Front side Antenna Horizontal	782	0.094	-0.29	22.50	22.39	1.026	0.096	/
			25	0	Front side Antenna Vertical	782	0.988	0.34	22.50	22.39	1.026	1.013	/
			1	0	Back Side Antenna Horizontal	782	0.11	-3.18	23.60	23.40	1.047	0.115	/
			1	0	Back Side Antenna Vertical	782	0.94	-1.32	23.60	23.40	1.047	0.984	/
			25	0	Back Side Antenna Horizontal	782	0.1	-1.73	22.50	22.39	1.026	0.103	/
			25	0	Back Side Antenna Vertical	782	0.755	-2.29	22.50	22.39	1.026	0.774	/
			1	0	Left Side Antenna Horizontal	782	0.053	-3.12	23.60	23.40	1.047	0.055	/
			1	0	Left Side Antenna Vertical	782	0.434	2.58	23.60	23.40	1.047	0.454	/
			25	0	Left Side Antenna Horizontal	782	0.062	0.64	22.50	22.39	1.026	0.064	/
			25	0	Left Side Antenna Vertical	782	0.362	-1.22	22.50	22.39	1.026	0.371	/
			1	0	Right Side Antenna Horizontal	782	0.1	-3.78	23.60	23.40	1.047	0.105	/



			1	0	Right Side Antenna Vertical	782	0.459	-0.73	23.60	23.40	1.047	0.481	/
			25	0	Right Side Antenna Horizontal	782	0.095	1.77	22.50	22.39	1.026	0.097	/
			25	0	Right Side Antenna Vertical	782	0.376	-2.78	22.50	22.39	1.026	0.386	/
			1	0	Top Side Antenna Horizontal	782	0.112	-3.46	23.60	23.40	1.047	0.117	/
			1	0	Top Side Antenna Vertical	782	1.332	-1.35	23.60	23.40	1.047	1.395	5
			25	0	Top Side Antenna Horizontal	782	0.104	0.14	22.50	22.39	1.026	0.107	/
			25	0	Top Side Antenna Vertical	782	1.167	-0.41	22.50	22.39	1.026	1.197	/
LTE Band 17	10M	QPSK	1	0	Front side Antenna Horizontal	709	0.06	-2.71	23.50	23.41	1.021	0.061	/
			1	0	Front side Antenna Vertical	709	0.796	-3.88	23.50	23.41	1.021	0.813	/
			1	0	Front side Antenna Vertical	710	0.76	-0.34	23.50	23.27	1.054	0.801	/
			1	0	Front side Antenna Vertical	711	0.767	3.31	23.50	23.21	1.069	0.820	/
			25	0	Front side Antenna Horizontal	709	0.057	0.02	22.50	22.35	1.035	0.059	/
			25	0	Front side Antenna Vertical	709	0.629	1.63	22.50	22.35	1.035	0.651	/
			1	0	Back Side Antenna Horizontal	709	0.062	1.25	23.50	23.41	1.021	0.063	/
			1	0	Back Side Antenna Vertical	709	0.623	1.33	23.50	23.41	1.021	0.636	/
			25	0	Back Side Antenna Horizontal	709	0.06	-1.71	22.50	22.35	1.035	0.062	/
			25	0	Back Side Antenna Vertical	709	0.513	3.63	22.50	22.35	1.035	0.531	/
			1	0	Left Side Antenna Horizontal	709	0.033	0.82	23.50	23.41	1.021	0.034	/
			1	0	Left Side Antenna Vertical	709	0.288	-2.56	23.50	23.41	1.021	0.294	/
			25	0	Left Side Antenna Horizontal	709	0.032	-1.21	22.50	22.35	1.035	0.033	/
			25	0	Left Side Antenna Vertical	709	0.246	-0.37	22.50	22.35	1.035	0.255	/



			1	0	Right Side Antenna Horizontal	709	0.067	-1.03	23.50	23.41	1.021	0.068	/
			1	0	Right Side Antenna Vertical	709	0.294	3.43	23.50	23.41	1.021	0.300	/
			25	0	Right Side Antenna Horizontal	709	0.073	-1.80	22.50	22.35	1.035	0.076	/
			25	0	Right Side Antenna Vertical	709	0.241	-1.97	22.50	22.35	1.035	0.249	/
			1	0	Top Side Antenna Horizontal	709	0.068	-2.57	23.50	23.41	1.021	0.069	/
			1	0	Top Side Antenna Vertical	709	0.939	-0.31	23.50	23.41	1.021	0.959	6
			1	0	Top Side Antenna Vertical	710	0.841	0.58	23.50	23.27	1.054	0.887	/
			1	0	Top Side Antenna Vertical	711	0.827	-2.58	23.50	23.21	1.069	0.884	/
			25	0	Top Side Antenna Horizontal	709	0.055	0.52	22.50	22.35	1.035	0.057	/
			25	0	Top Side Antenna Vertical	709	0.752	-1.43	22.50	22.35	1.035	0.778	/
LTE Band 66	20M	QPSK	1	0	Front side Antenna Horizontal	1770	0.579	-3.23	23.50	23.44	1.014	0.587	/
			1	0	Front side Antenna Vertical	1770	0.664	-3.38	23.50	23.44	1.014	0.673	/
			50	0	Front side Antenna Horizontal	1770	0.471	2.66	22.50	22.32	1.042	0.491	/
			50	0	Front side Antenna Vertical	1770	0.545	3.07	22.50	22.32	1.042	0.568	/
			1	0	Back Side Antenna Horizontal	1770	0.579	-0.99	23.50	23.44	1.014	0.587	/
			1	0	Back Side Antenna Vertical	1770	0.521	-0.05	23.50	23.44	1.014	0.528	/
			50	0	Back Side Antenna Horizontal	1770	0.478	-1.29	22.50	22.32	1.042	0.498	/
			50	0	Back Side Antenna Vertical	1770	0.425	-0.96	22.50	22.32	1.042	0.443	/
			1	0	Left Side Antenna Horizontal	1770	0.231	-2.95	23.50	23.44	1.014	0.234	/
			1	0	Left Side Antenna Vertical	1770	0.238	0.80	23.50	23.44	1.014	0.241	/
			50	0	Left Side Antenna Horizontal	1770	0.194	-3.92	22.50	22.32	1.042	0.202	/



			50	0	Left Side Antenna Vertical	1770	0.197	3.44	22.50	22.32	1.042	0.205	/
			1	0	Right Side Antenna Horizontal	1770	0.505	-0.27	23.50	23.44	1.014	0.512	/
			1	0	Right Side Antenna Vertical	1770	0.258	2.24	23.50	23.44	1.014	0.262	/
			50	0	Right Side Antenna Horizontal	1770	0.406	-0.91	22.50	22.32	1.042	0.423	/
			50	0	Right Side Antenna Vertical	1770	0.219	-3.68	22.50	22.32	1.042	0.228	/
			1	0	Top Side Antenna Horizontal	1770	0.660	-2.65	23.50	23.44	1.014	0.669	/
			1	0	Top Side Antenna Vertical	1770	0.775	-0.40	23.50	23.44	1.014	0.786	7
			50	0	Top Side Antenna Horizontal	1770	0.537	-1.79	22.50	22.32	1.042	0.560	/
			50	0	Top Side Antenna Vertical	1770	0.62	-0.70	22.50	22.32	1.042	0.646	/
LTE Band 71	20M	QPSK	1	0	Front side Antenna Horizontal	688	0.072	-0.41	22.50	22.20	1.072	0.077	/
			1	0	Front side Antenna Vertical	688	0.731	-2.15	22.50	22.20	1.072	0.783	/
			50	0	Front side Antenna Horizontal	680.5	0.064	-0.43	21.00	20.63	1.089	0.070	/
			50	0	Front side Antenna Vertical	680.5	0.586	1.80	21.00	20.63	1.089	0.638	/
			1	0	Back Side Antenna Horizontal	688	0.077	2.04	22.50	22.20	1.072	0.083	/
			1	0	Back Side Antenna Vertical	688	0.664	-0.41	22.50	22.20	1.072	0.711	/
			50	0	Back Side Antenna Horizontal	680.5	0.08	3.11	21.00	20.63	1.089	0.087	/
			50	0	Back Side Antenna Vertical	680.5	0.539	-3.65	21.00	20.63	1.089	0.587	/
			1	0	Left Side Antenna Horizontal	688	0.04	2.86	22.50	22.20	1.072	0.043	/
			1	0	Left Side Antenna Vertical	688	0.252	1.76	22.50	22.20	1.072	0.270	/
			50	0	Left Side Antenna Horizontal	680.5	0.051	-0.68	21.00	20.63	1.089	0.056	/
			50	0	Left Side Antenna Vertical	680.5	0.207	-1.17	21.00	20.63	1.089	0.225	/



			1	0	Right Side Antenna Horizontal	688	0.075	3.73	22.50	22.20	1.072	0.080	/
			1	0	Right Side Antenna Vertical	688	0.611	1.93	22.50	22.20	1.072	0.655	/
			50	0	Right Side Antenna Horizontal	680.5	0.07	0.94	21.00	20.63	1.089	0.076	/
			50	0	Right Side Antenna Vertical	680.5	0.503	0.28	21.00	20.63	1.089	0.548	/
			1	0	Top Side Antenna Horizontal	688	0.080	0.32	22.50	22.20	1.072	0.086	/
			1	0	Top Side Antenna Vertical	673	0.605	-3.36	22.50	21.07	1.390	0.841	/
			1	0	Top Side Antenna Vertical	680.5	0.653	-3.36	22.50	21.27	1.327	0.867	/
			1	0	Top Side Antenna Vertical	688	0.827	-3.36	22.50	22.20	1.072	0.886	8
			50	0	Top Side Antenna Horizontal	680.5	0.075	-3.71	21.00	20.63	1.089	0.082	/
			50	0	Top Side Antenna Vertical	680.5	0.676	-2.58	21.00	20.63	1.089	0.736	/

Note:

1. The test separation of all above table is 5mm.
2. Per KDB 447498 D01, 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 Repeated 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)
LTE Band 4	20M	QPSK	1	0	Front side Antenna Vertical	1720	0.794	-1.28	23.5	23.18	1.076	0.855
			1	0	Front side Antenna Vertical	1732.5	0.791	3.12	23.5	23.20	1.072	0.848
			1	0	Front side Antenna Vertical	1745	0.839	0.64	23.5	23.39	1.026	0.861
			1	0	Back Side Antenna Vertical	1745	0.822	-3.33	23.5	23.39	1.026	0.843
			1	0	Top Side Antenna Vertical	1720	0.926	-0.70	23.5	23.18	1.076	0.997
			1	0	Top Side Antenna Vertical	1732.5	0.915	2.62	23.5	23.20	1.072	0.980
			1	0	Top Side Antenna Vertical	1745	0.995	-0.76	23.5	23.39	1.026	1.021
LTE Band 5	10M	QPSK	1	0	Top Side Antenna Vertical	844	0.824	0.36	23.5	23.45	1.012	0.834
LTE Band 12	10M	QPSK	1	0	Front side Antenna Vertical	704	0.894	-2.89	23.6	23.52	1.019	0.911
			1	0	Front side Antenna Vertical	707.5	0.799	2.40	23.6	23.39	1.050	0.839
			1	0	Front side Antenna Vertical	711	0.827	-0.84	23.6	23.26	1.081	0.894
			1	0	Top Side Antenna Vertical	704	1.042	2.64	23.6	23.52	1.019	1.061
			1	0	Top Side Antenna Vertical	707.5	0.963	2.69	23.6	23.39	1.050	1.011
			1	0	Top Side Antenna Vertical	711	0.932	3.76	23.6	23.26	1.081	1.008
LTE Band 13	10M	QPSK	1	0	Front side Antenna Vertical	782	1.170	2.52	23.6	23.40	1.047	1.225
			25	0	Front side Antenna Vertical	782	0.964	2.52	22.5	22.39	1.026	0.989
			1	0	Back Side Antenna Vertical	782	0.919	-1.17	23.6	23.40	1.047	0.962
			1	0	Top Side Antenna Vertical	782	1.270	1.50	23.6	23.40	1.047	1.330
			25	0	Top Side Antenna Vertical	782	1.165	1.72	22.5	22.39	1.026	1.195
LTE Band 17	10M	QPSK	1	0	Front side Antenna Vertical	709	0.762	2.01	23.5	23.41	1.021	0.778



			1	0	Front side Antenna Vertical	710	0.736	-2.66	23.5	23.27	1.054	0.776
			1	0	Front side Antenna Vertical	711	0.757	-1.07	23.5	23.21	1.069	0.809
			1	0	Top Side Antenna Vertical	709	0.928	-2.29	23.5	23.41	1.021	0.947
			1	0	Top Side Antenna Vertical	710	0.836	-3.74	23.5	23.27	1.054	0.881
			1	0	Top Side Antenna Vertical	711	0.820	2.79	23.5	23.21	1.069	0.877
LTE Band 71	20M	QPSK	1	0	Top Side Antenna Vertical	673	0.589	2.14	22.5	21.07	1.390	0.819
			1	0	Top Side Antenna Vertical	680.5	0.640	-3.26	22.5	21.27	1.327	0.850
			1	0	Top Side Antenna Vertical	688	0.824	-2.08	22.5	22.20	1.072	0.883



12.3 Repeated SAR measurement

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Original Measured SAR 1g(W/kg)	1 st Repeated SAR 1g	Ratio
LTE Band 4	20M	QPSK	1	0	Front side Antenna Vertical	1720	0.811	0.794	1.021
			1	0	Front side Antenna Vertical	1732.5	0.821	0.791	1.038
			1	0	Front side Antenna Vertical	1745	0.873	0.839	1.041
			1	0	Back Side Antenna Vertical	1745	0.862	0.822	1.049
			1	0	Top Side Antenna Vertical	1720	0.928	0.926	1.002
			1	0	Top Side Antenna Vertical	1732.5	0.937	0.915	1.024
			1	0	Top Side Antenna Vertical	1745	1.017	0.995	1.022
LTE Band 5	10M	QPSK	1	0	Top Side Antenna Vertical	844	0.842	0.824	1.022
LTE Band 12	10M	QPSK	1	0	Front side Antenna Vertical	704	0.910	0.894	1.018
			1	0	Front side Antenna Vertical	707.5	0.836	0.799	1.046
			1	0	Front side Antenna Vertical	711	0.841	0.827	1.017
			1	0	Top Side Antenna Vertical	704	1.063	1.042	1.020
			1	0	Top Side Antenna Vertical	707.5	0.973	0.963	1.010
			1	0	Top Side Antenna Vertical	711	0.951	0.932	1.020
LTE Band 13	10M	QPSK	1	0	Front side Antenna Vertical	782	1.226	1.170	1.048
			25	0	Front side Antenna Vertical	782	0.988	0.964	1.025
			1	0	Back Side Antenna Vertical	782	0.940	0.919	1.023
			1	0	Top Side Antenna Vertical	782	1.332	1.270	1.049
			25	0	Top Side Antenna Vertical	782	1.167	1.165	1.002
LTE Band 17	10M	QPSK	1	0	Front side Antenna Vertical	709	0.796	0.762	1.045



			1	0	Front side Antenna Vertical	710	0.760	0.736	1.033
			1	0	Front side Antenna Vertical	711	0.767	0.757	1.013
			1	0	Top Side Antenna Vertical	709	0.939	0.928	1.012
			1	0	Top Side Antenna Vertical	710	0.841	0.836	1.006
			1	0	Top Side Antenna Vertical	711	0.827	0.820	1.009
LTE Band 71	20M	QPSK	1	0	Top Side Antenna Vertical	673	0.605	0.589	1.027
			1	0	Top Side Antenna Vertical	680.5	0.653	0.640	1.020
			1	0	Top Side Antenna Vertical	688	0.827	0.824	1.004

Note:

1. Per KDB 865664 D01,for each frequency band ,repeated SAR measurement is required only when the measured SAR is $\geq 0.8\text{W/Kg}$.
2. Per KDB 865664 D01,if the ratio of largest to smallest SAR for the original and first repeated measurement is ≤ 1.2 and the measured SAR $< 1.45\text{W/Kg}$, only one repeated measurement is required.
3. Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is $\geq 1.45\text{W/Kg}$.
4. The ratio is the difference in percentage between original and repeated measured SAR.



13. Equipment List

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
750MHz Dipole	MVG	DIP0G750	SN 06/22 DIP0G750-638	2025.05.20	2028.05.19
835MHz Dipole	MVG	DIP0G835	SN 06/22 DIP0G835-639	2025.05.20	2028.05.19
1800MHz Dipole	MVG	DIP1G800	SN 06/22 DIP1G800-640	2025.05.20	2028.05.19
1900MHz Dipole	MVG	DIP1G900	SN 06/22 DIP1G900-641	2025.05.20	2028.05.19
E-Field Probe	MVG	SSE2	0326-EPGO-431	2026.01.22	2027.01.21
Liquid Calibration Kit	MVG	OCPG 87	SN 06/22 OCPG87	2025.06.02	2026.06.01
Antenna	MVG	ANTA 73	SN 06/22 ANTA 73	N/A	N/A
Ellipsoid Phantom	MVG	ELLI 51	SN 06/22 ELLI 51	N/A	N/A
Phantom	MVG	SAM 148	SN 06/22 SAM148	N/A	N/A
Phone holder	MVG	MSH 117	SN 06/22 MSH 117	N/A	N/A
Laptop positioner	MVG	LSH 36	SN 06/22 LSH 38	N/A	N/A
Directional coupler	SHW	SHWDCP	202203280013	N/A	N/A
Network Analyzer	R&S	ZVL	116184	2026.03.03	2027.03.02
Multi Meter	Keithley	DMM6500	4527252	2026.03.03	2027.03.02
Signal Generator	Keysight	N5182B	MY59100717	2026.03.03	2027.03.02
Wireless Communication Test Set	R&S	CMW500	137737	2026.03.02	2027.03.01
Power Sensor	R&S	Z11	116184	2026.03.03	2027.03.02
Electronic Temperature hygrometer	N/A	ST-W2318	N/A	2026.03.05	2027.03.04
Temperature hygrometer	N/A	TP101	N/A	2026.03.05	2027.03.04



Appendix A. System Validation Plots

System Performance Check Data (750MHz)

Type: Phone measurement (Complete)

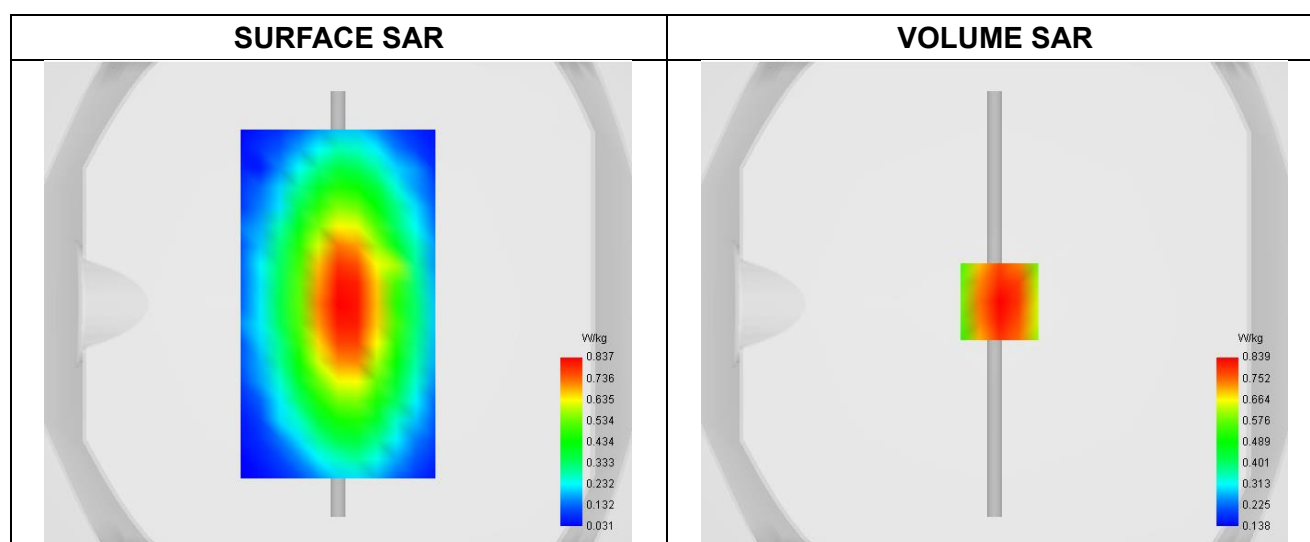
Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2026-04-29

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW750
Channels	Middle
Signal	CW
Frequency (MHz)	750.000
Relative permittivity	42.37
Conductivity (S/m)	0.90
Probe	0326-EPGO-431
ConvF	0.71
Crest factor:	1:1

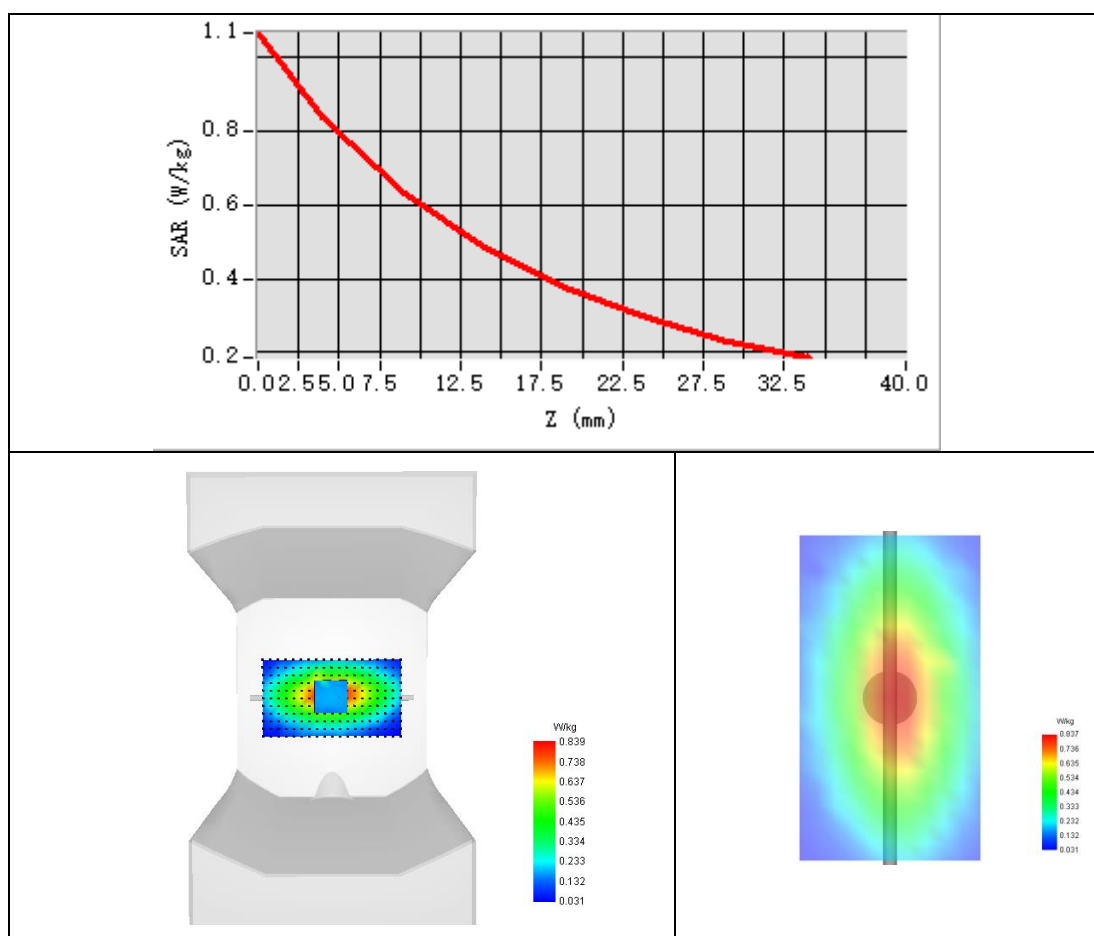


Maximum location: X=2.00, Y=1.00 ; SAR Peak: 1.07 W/kg

SAR 10g (W/Kg)	0.546
SAR 1g (W/Kg)	0.855



Z Axis Scan





System Performance Check Data (750MHz)

Type: Phone measurement (Complete)

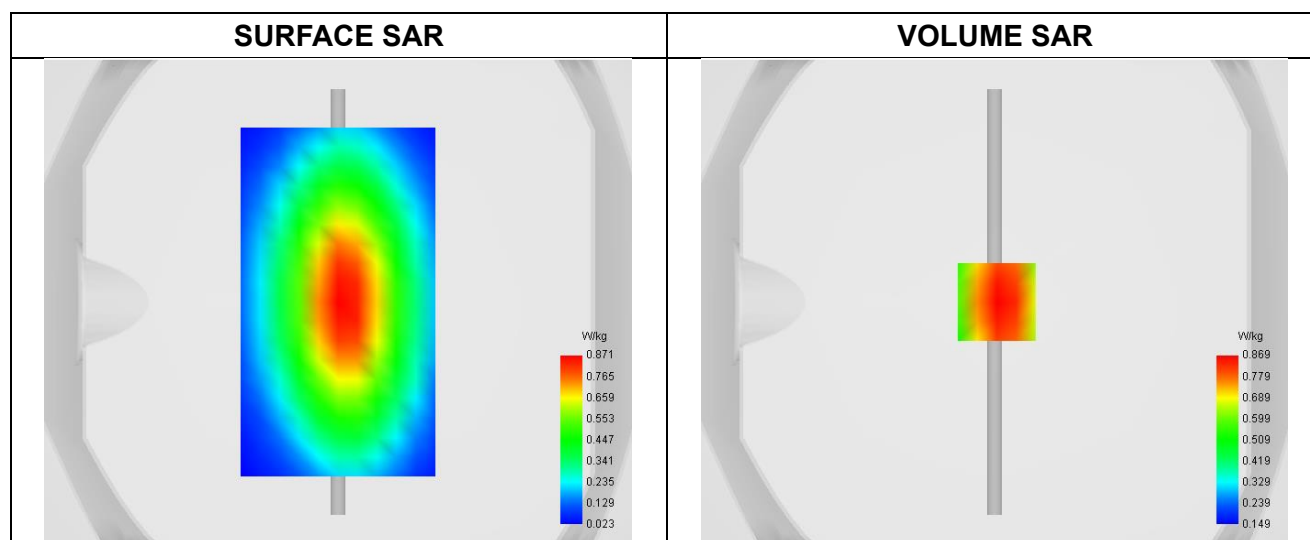
Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2026-04-28

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW750
Channels	Middle
Signal	CW
Frequency (MHz)	750.000
Relative permittivity	42.80
Conductivity (S/m)	0.91
Probe	0326-EPGO-431
ConvF	0.71
Crest factor:	1:1

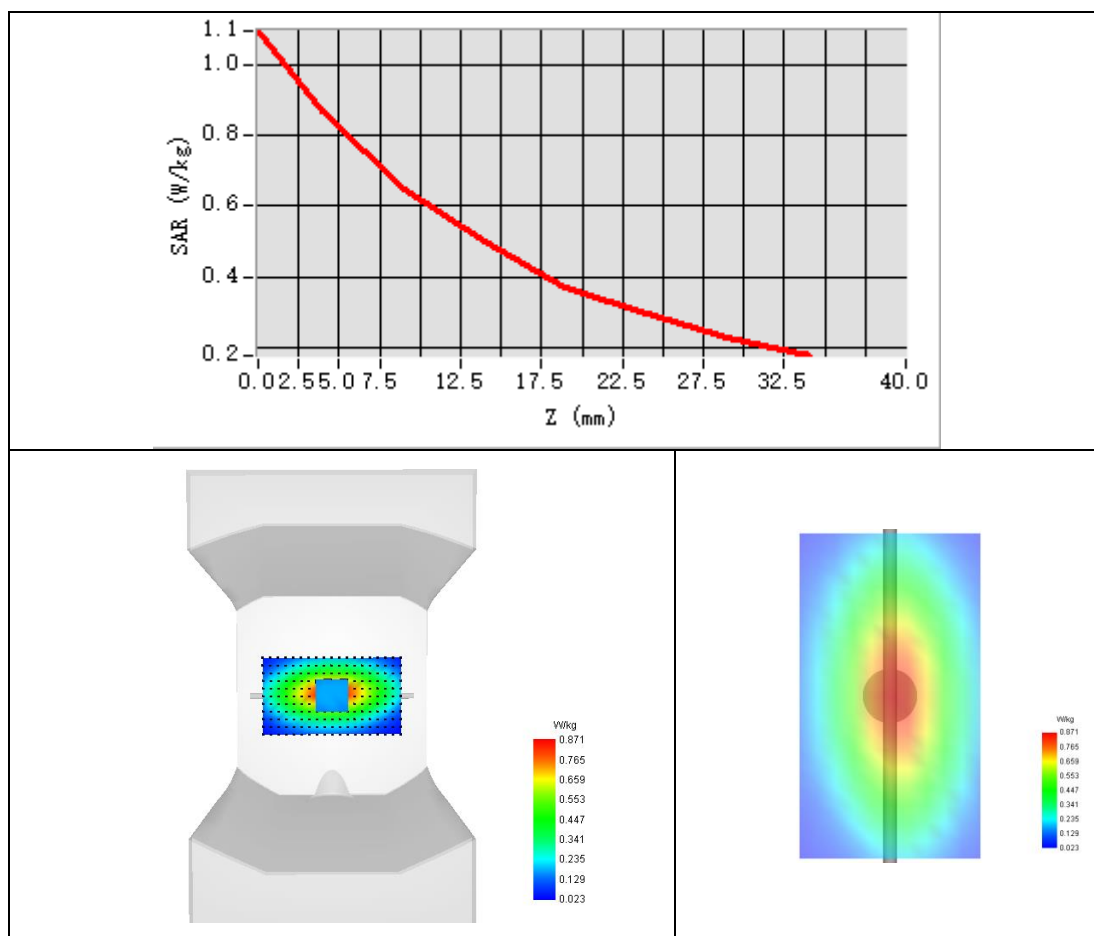


Maximum location: X=1.00, Y=0.00 ; SAR Peak: 1.11 W/kg

SAR 10g (W/Kg)	0.581
SAR 1g (W/Kg)	0.842



Z Axis Scan





System Performance Check Data (835MHz)

Type: Phone measurement (Complete)

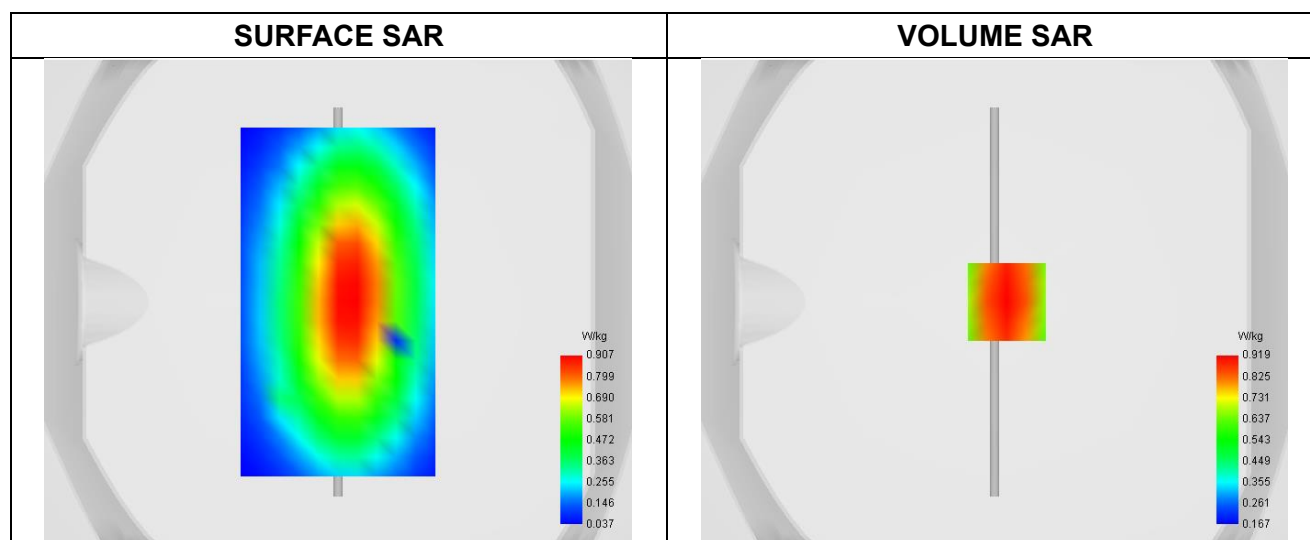
Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2026-05-01

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW835
Channels	Middle
Signal	CW
Frequency (MHz)	835.000
Relative permittivity	42.67
Conductivity (S/m)	0.91
Probe	0326-EPGO-431
ConvF	0.69
Crest factor:	1:1

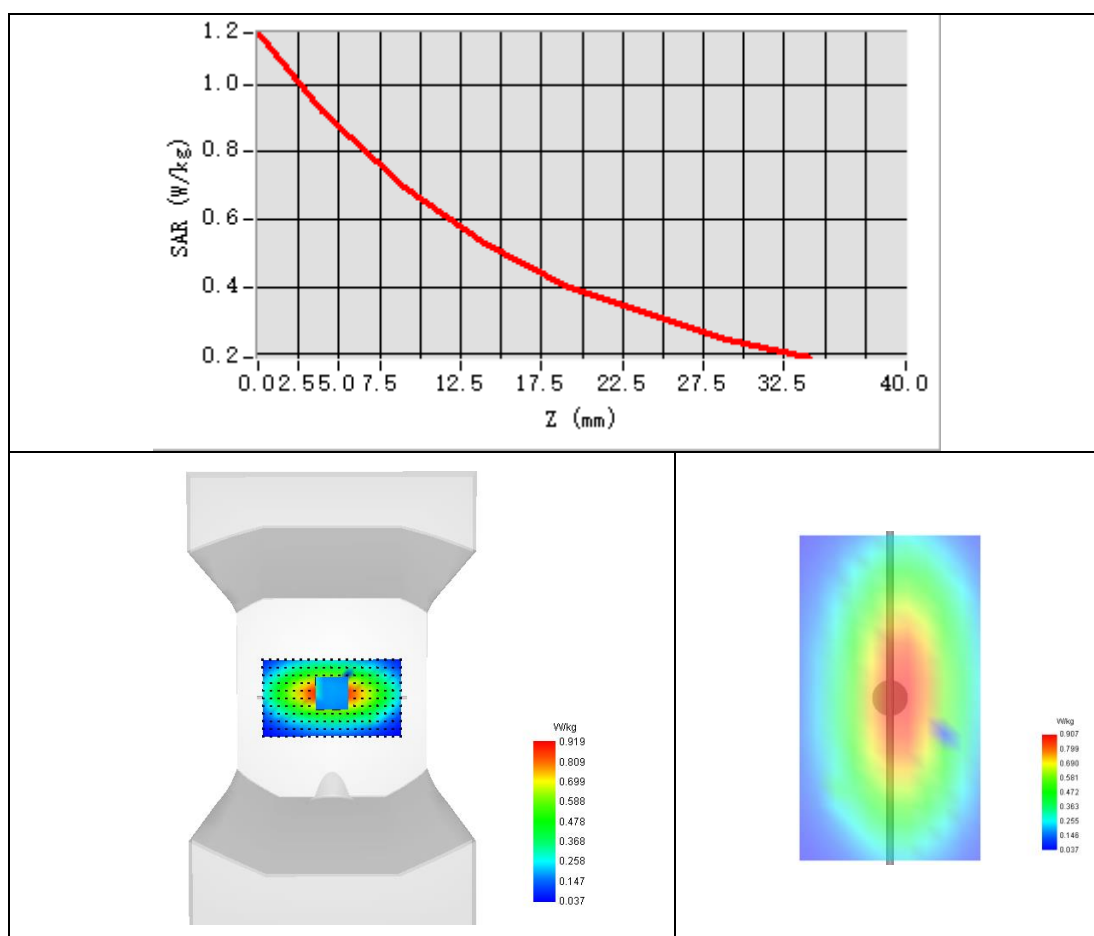


Maximum location: X=5.00, Y=0.00 ; SAR Peak: 1.15 W/kg

SAR 10g (W/Kg)	0.600
SAR 1g (W/Kg)	0.978



Z Axis Scan





System Performance Check Data (1800MHz)

Type: Phone measurement (Complete)

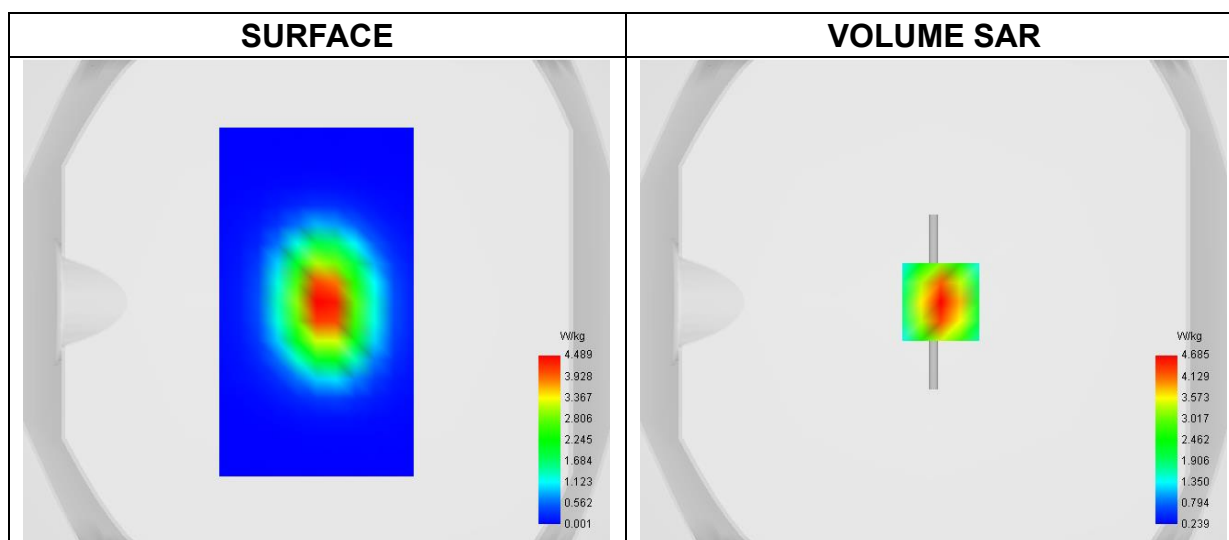
Area scan resolution: dx=8mm, dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement:2026-04-30

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW1800
Channels	Middle
Signal	CW
Frequency (MHz)	1800.000
Relative permittivity	40.21
Conductivity (S/m)	1.35
Probe	0326-EPGO-431
ConvF	0.69
Crest factor:	1:1

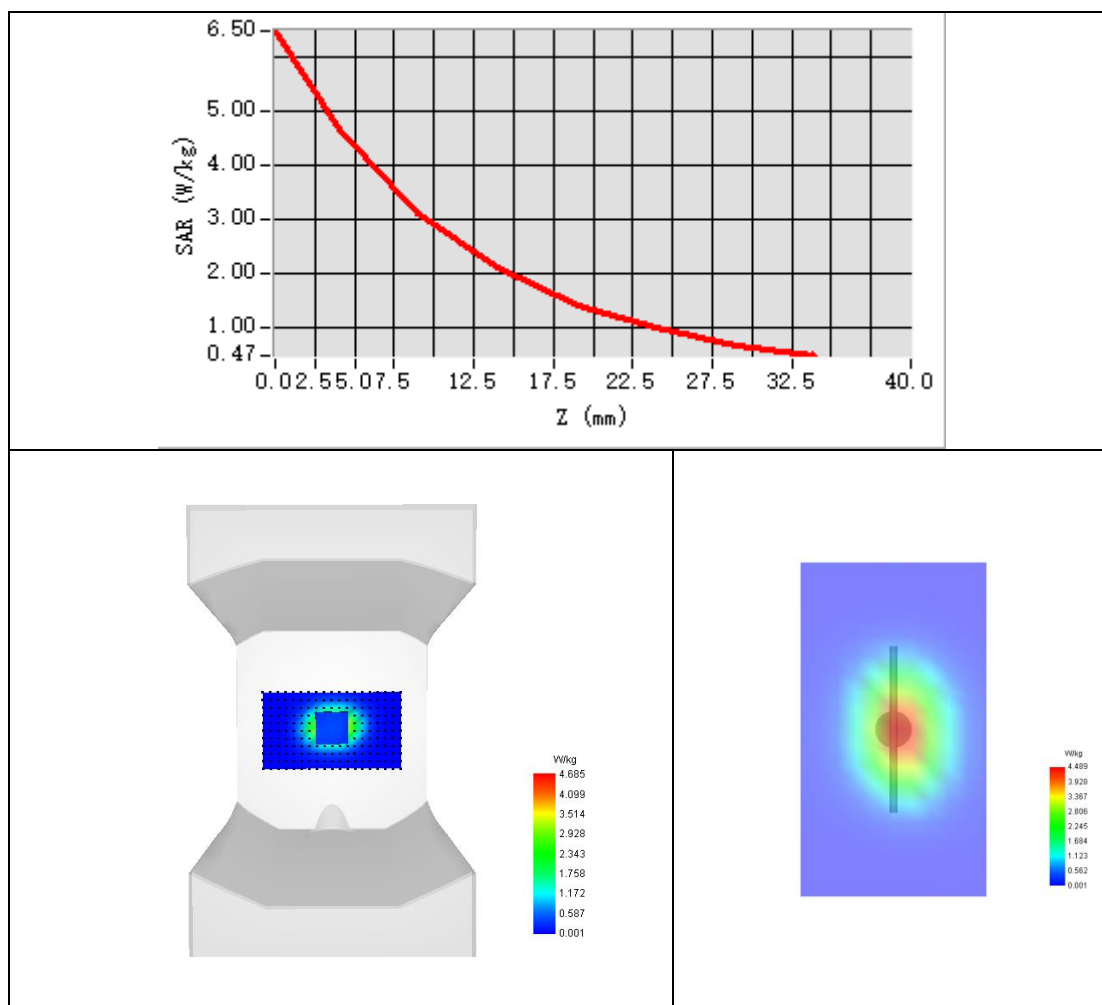


Maximum location: X=3.00, Y=0.00 ; SAR Peak: 6.47 W/kg

SAR 10g (W/Kg)	1.945
SAR 1g (W/Kg)	3.662



Z Axis Scan





System Performance Check Data (1900MHz)

Type: Phone measurement (Complete)

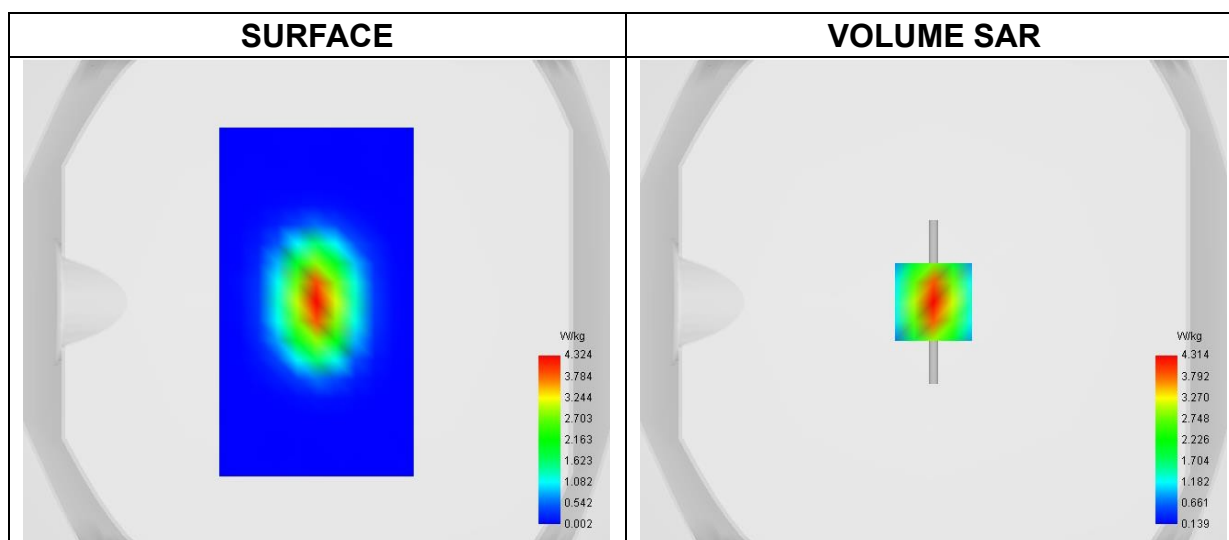
Area scan resolution: dx=8mm, dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement:2026-05-01

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW1900
Channels	Middle
Signal	CW
Frequency (MHz)	1900.000
Relative permittivity	40.98
Conductivity (S/m)	1.42
Probe	0326-EPGO-431
ConvF	0.90
Crest factor:	1:1

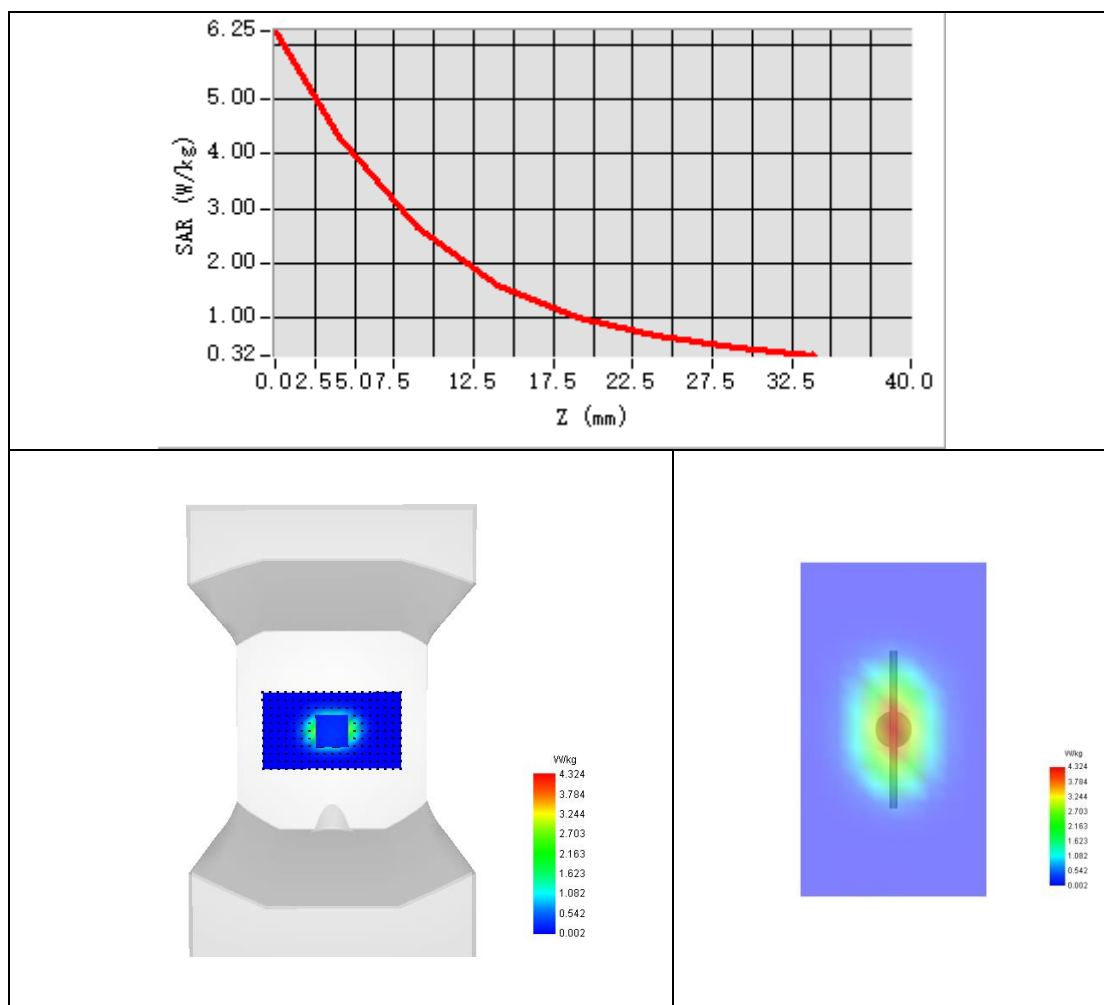


Maximum location: X=0.00, Y=0.00 ; SAR Peak: 6.24 W/kg

SAR 10g (W/Kg)	2.086
SAR 1g (W/Kg)	3.994



Z Axis Scan



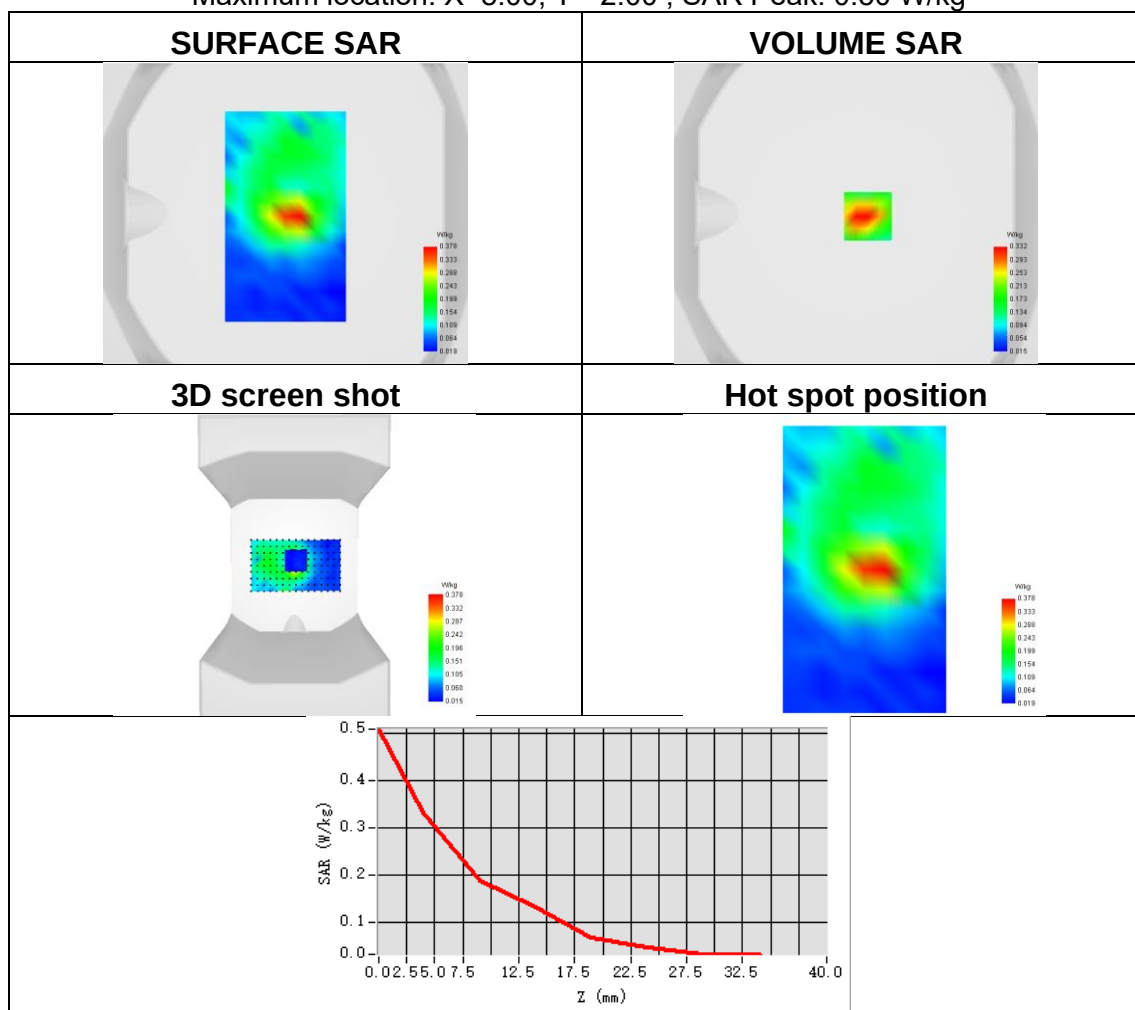


Appendix B. SAR Test Plots

Plot 1:

Test Date	2026-05-01
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Top Side Antenna Horizontal
Band	LTE band 2
Signal	LTE FDD
Frequency	1880
SAR 10g (W/Kg)	0.173
SAR 1g (W/Kg)	0.318
ConvF	2.25
Relative permittivity	40.98
Conductivity (S/m)	1.42

Maximum location: X=8.00, Y=-2.00 ; SAR Peak: 0.50 W/kg

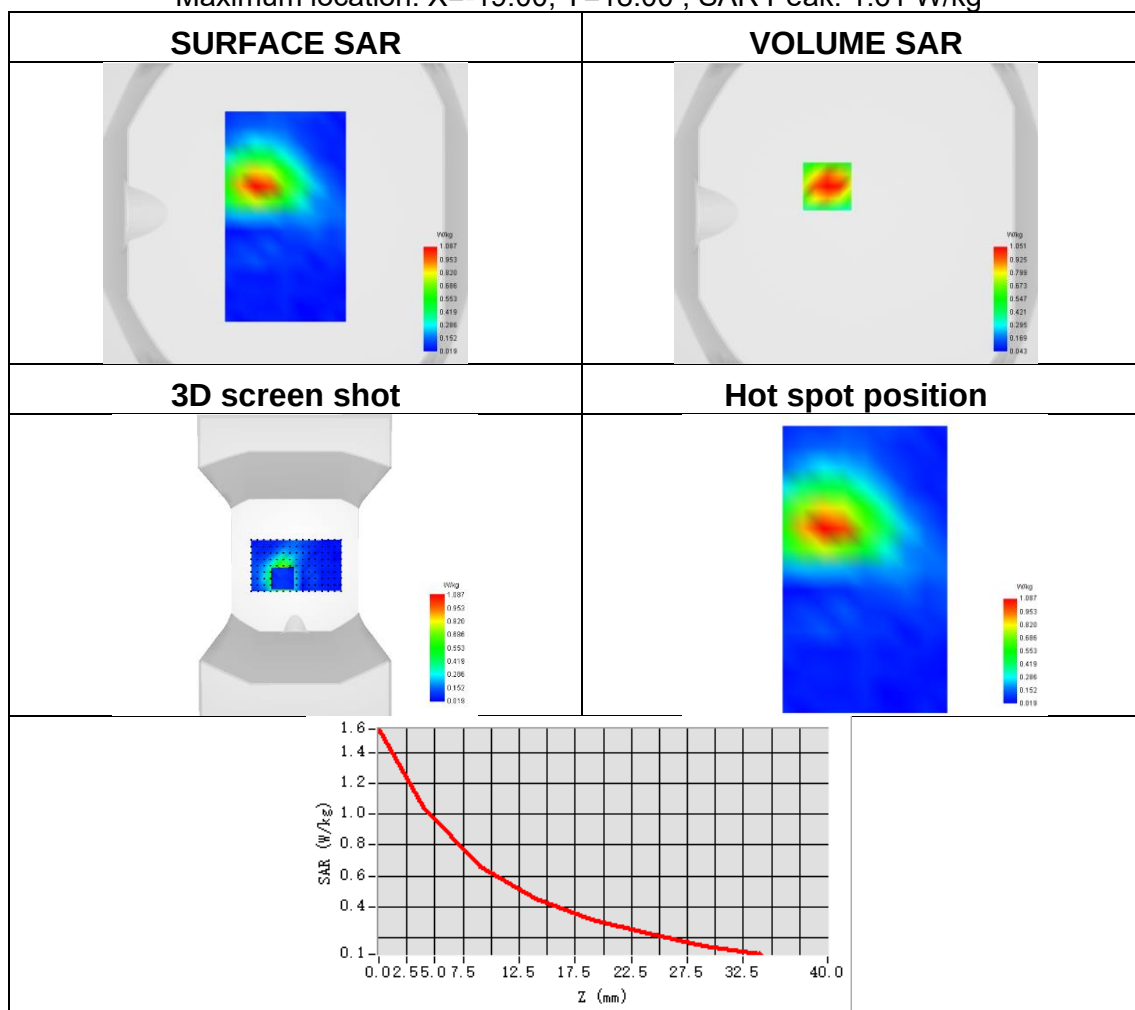




Plot 2:

Test Date	2026-04-30
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Top Side Antenna Vertical
Band	LTE band 4
Signal	LTE FDD
Frequency	1745
SAR 10g (W/Kg)	0.593
SAR 1g (W/Kg)	1.017
ConvF	1.95
Relative permittivity	40.21
Conductivity (S/m)	1.35

Maximum location: X=-19.00, Y=18.00 ; SAR Peak: 1.61 W/kg

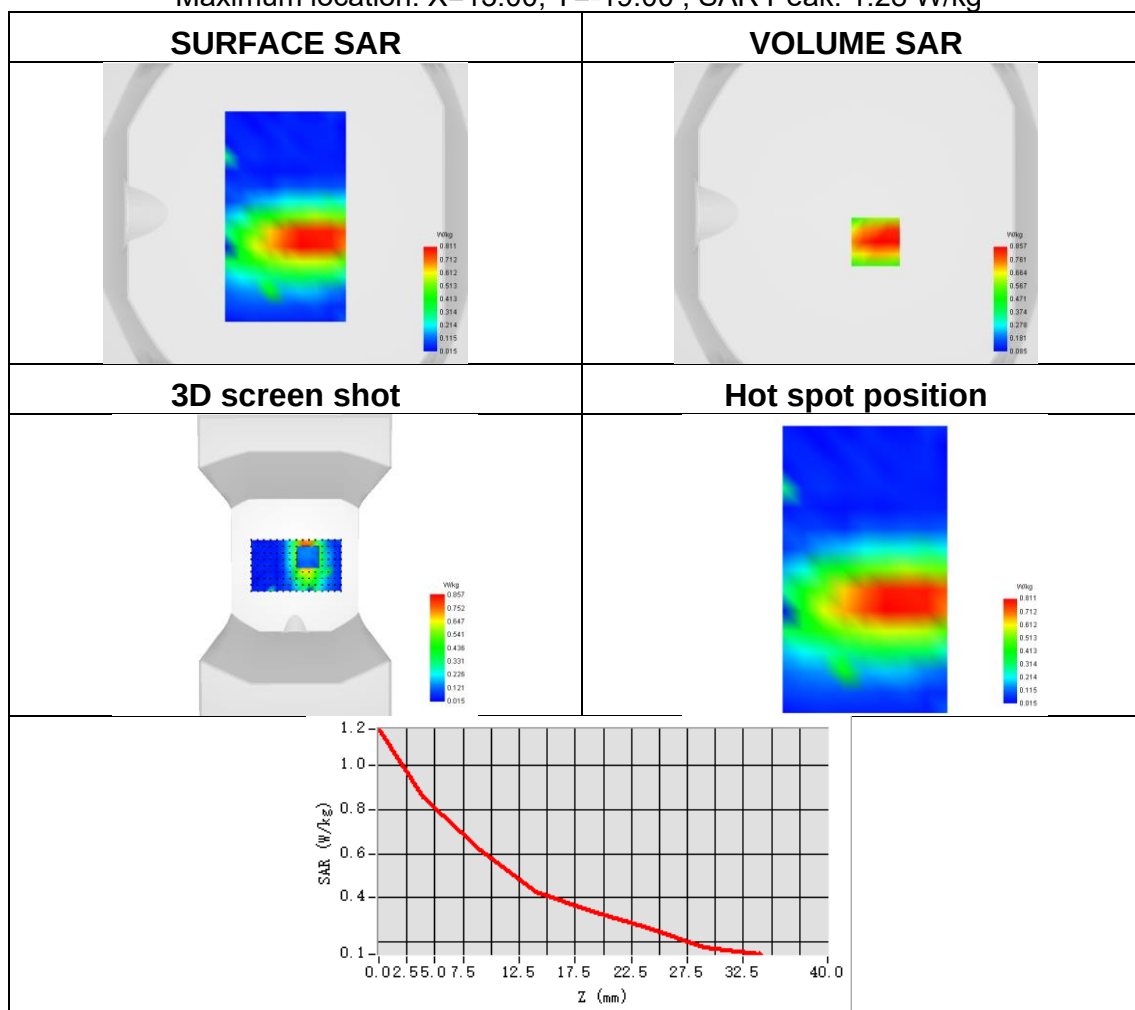




Plot 3:

Test Date	2026-05-01
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Top Side Antenna Vertical
Band	LTE band 5
Signal	LTE FDD
Frequency	844
SAR 10g (W/Kg)	0.491
SAR 1g (W/Kg)	0.842
ConvF	1.72
Relative permittivity	42.67
Conductivity (S/m)	0.91

Maximum location: X=13.00, Y=-19.00 ; SAR Peak: 1.28 W/kg

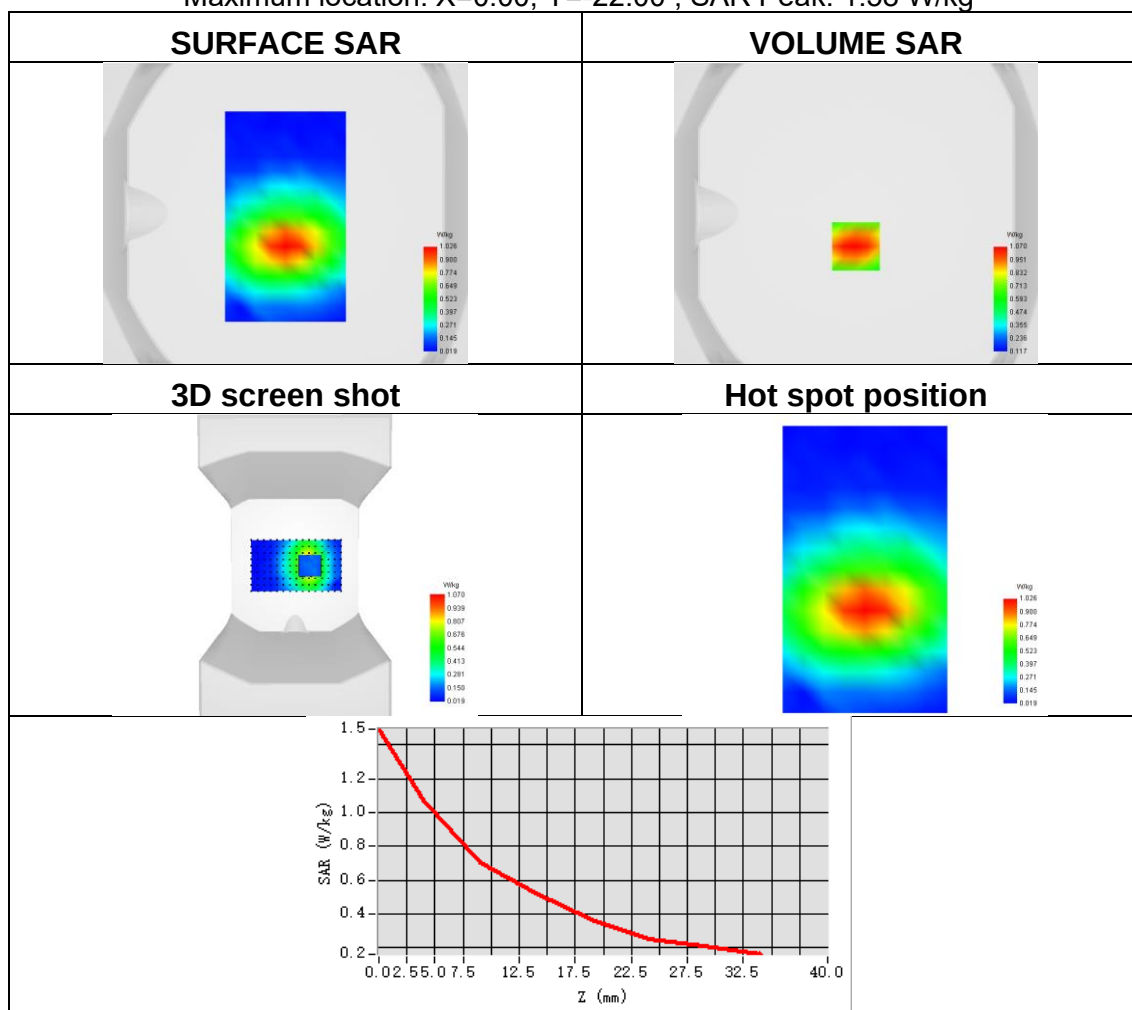




Plot 4:

Test Date	2026-04-29
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Top Side Antenna Vertical
Band	LTE band 12
Signal	LTE FDD
Frequency	704
SAR 10g (W/Kg)	0.678
SAR 1g (W/Kg)	1.063
ConvF	1.72
Relative permittivity	42.37
Conductivity (S/m)	0.90

Maximum location: X=0.00, Y=-22.00 ; SAR Peak: 1.58 W/kg

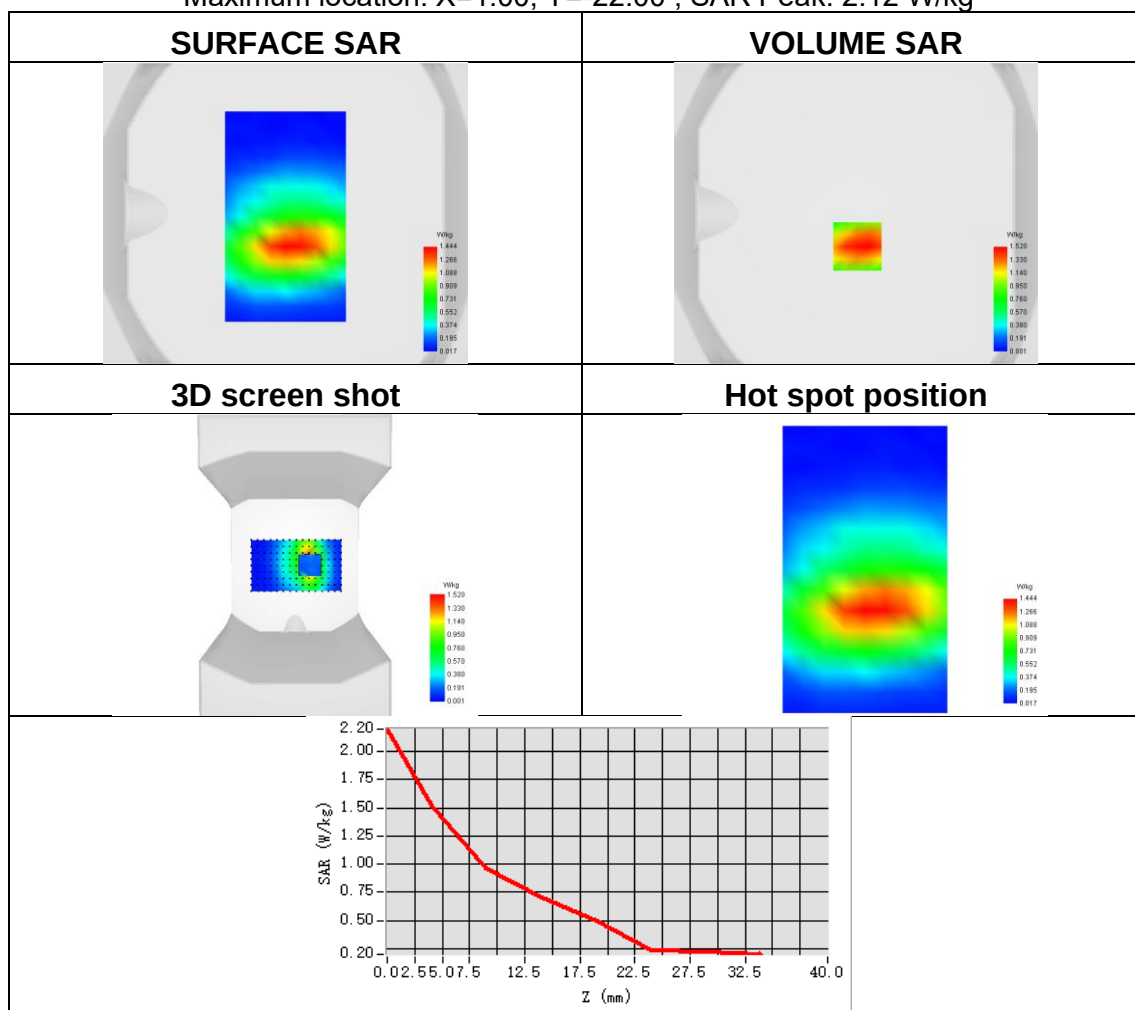




Plot 5:

Test Date	2026-04-28
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Top Side Antenna Vertical
Band	LTE band 13
Signal	LTE FDD
Frequency	782
SAR 10g (W/Kg)	0.917
SAR 1g (W/Kg)	1.332
ConvF	1.69
Relative permittivity	42.80
Conductivity (S/m)	0.91

Maximum location: X=1.00, Y=-22.00 ; SAR Peak: 2.12 W/kg

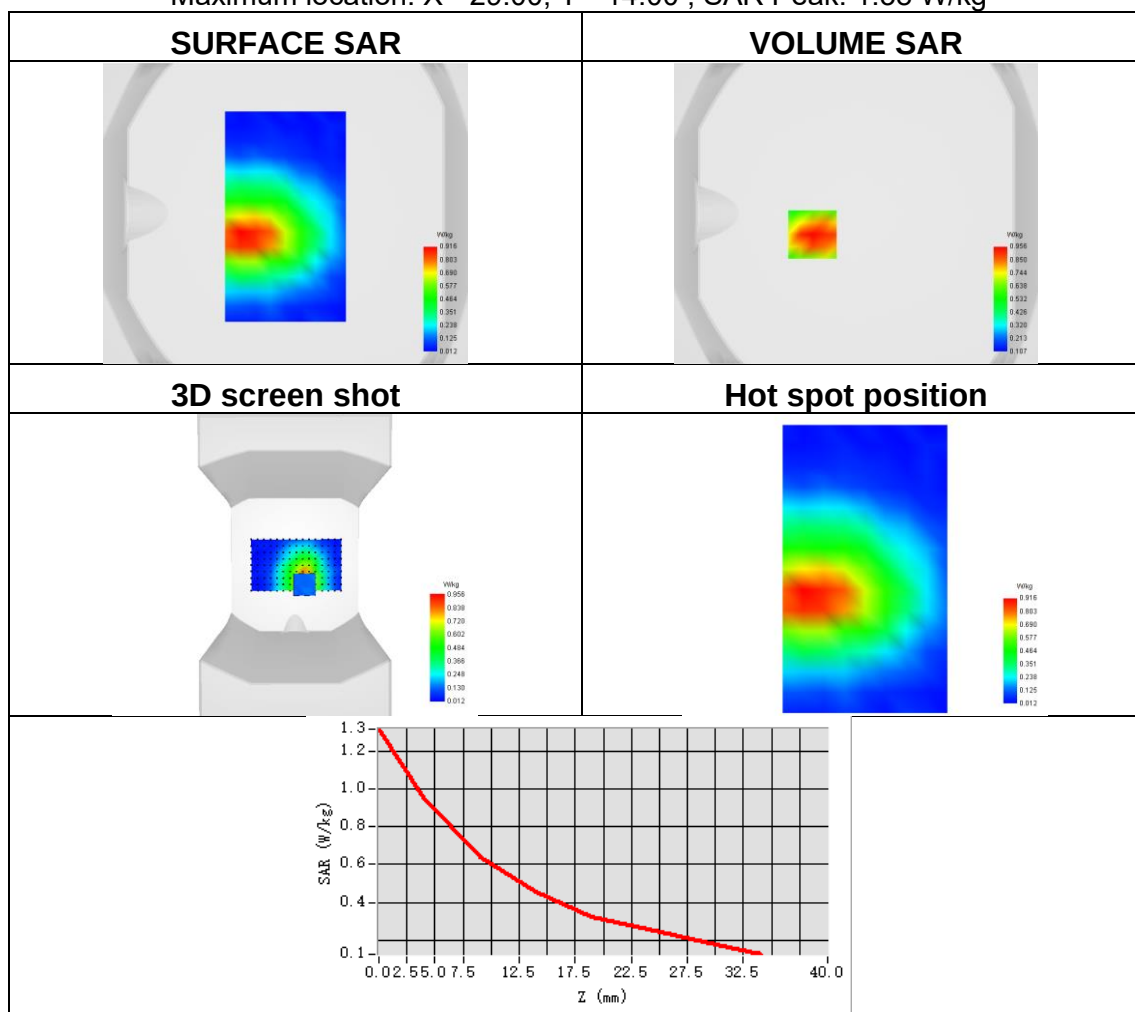




Plot 6:

Test Date	2026-04-28
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Top Side Antenna Vertical
Band	LTE band 17
Signal	LTE FDD
Frequency	709
SAR 10g (W/Kg)	0.607
SAR 1g (W/Kg)	0.939
ConvF	1.72
Relative permittivity	42.80
Conductivity (S/m)	0.91

Maximum location: X=-29.00, Y=-14.00 ; SAR Peak: 1.38 W/kg

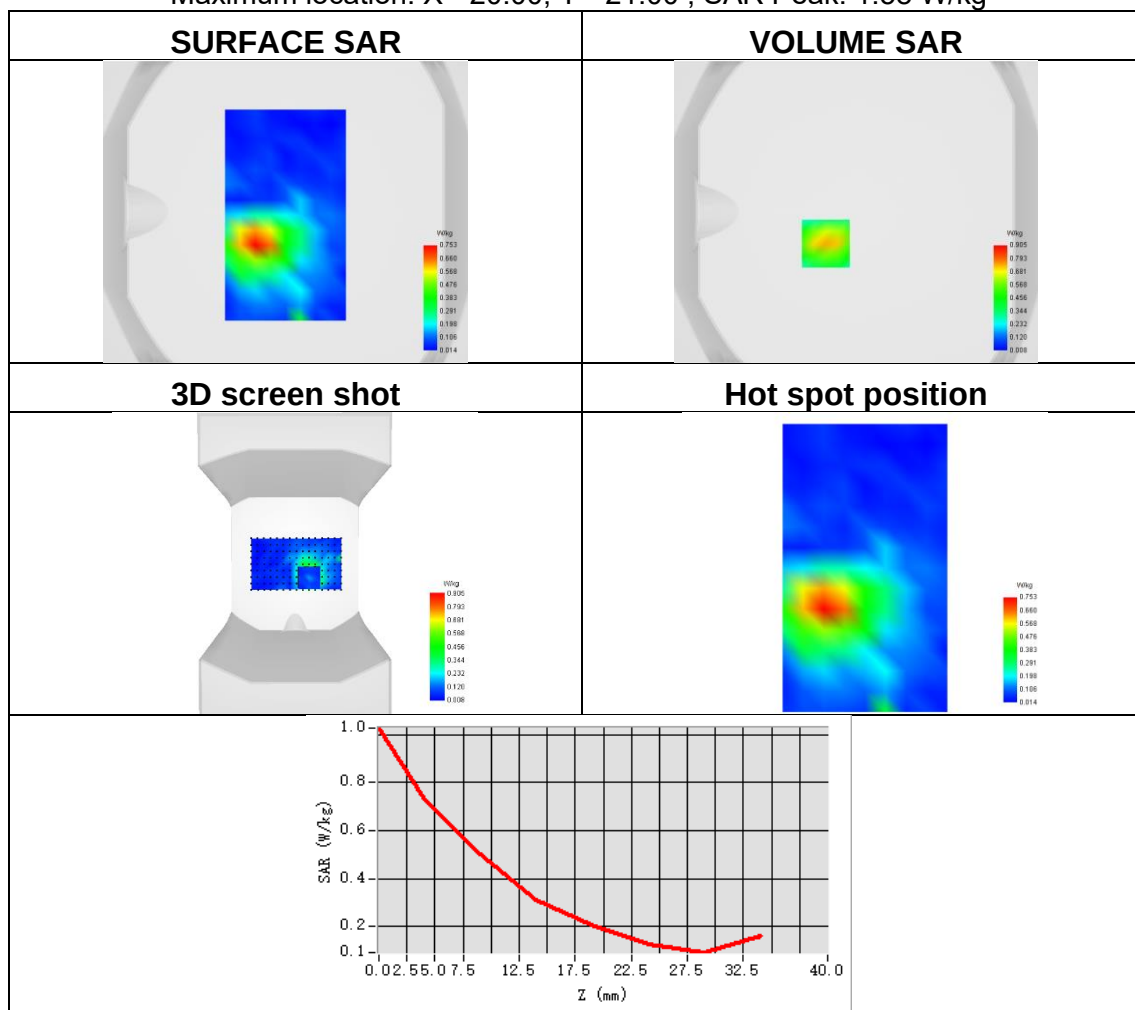




Plot 7:

Test Date	2026-04-30
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Top Side Antenna Vertical
Band	LTE band 66
Signal	LTE FDD
Frequency	1770
SAR 10g (W/Kg)	0.414
SAR 1g (W/Kg)	0.775
ConvF	1.95
Relative permittivity	40.21
Conductivity (S/m)	1.35

Maximum location: X=-20.00, Y=-21.00 ; SAR Peak: 1.58 W/kg

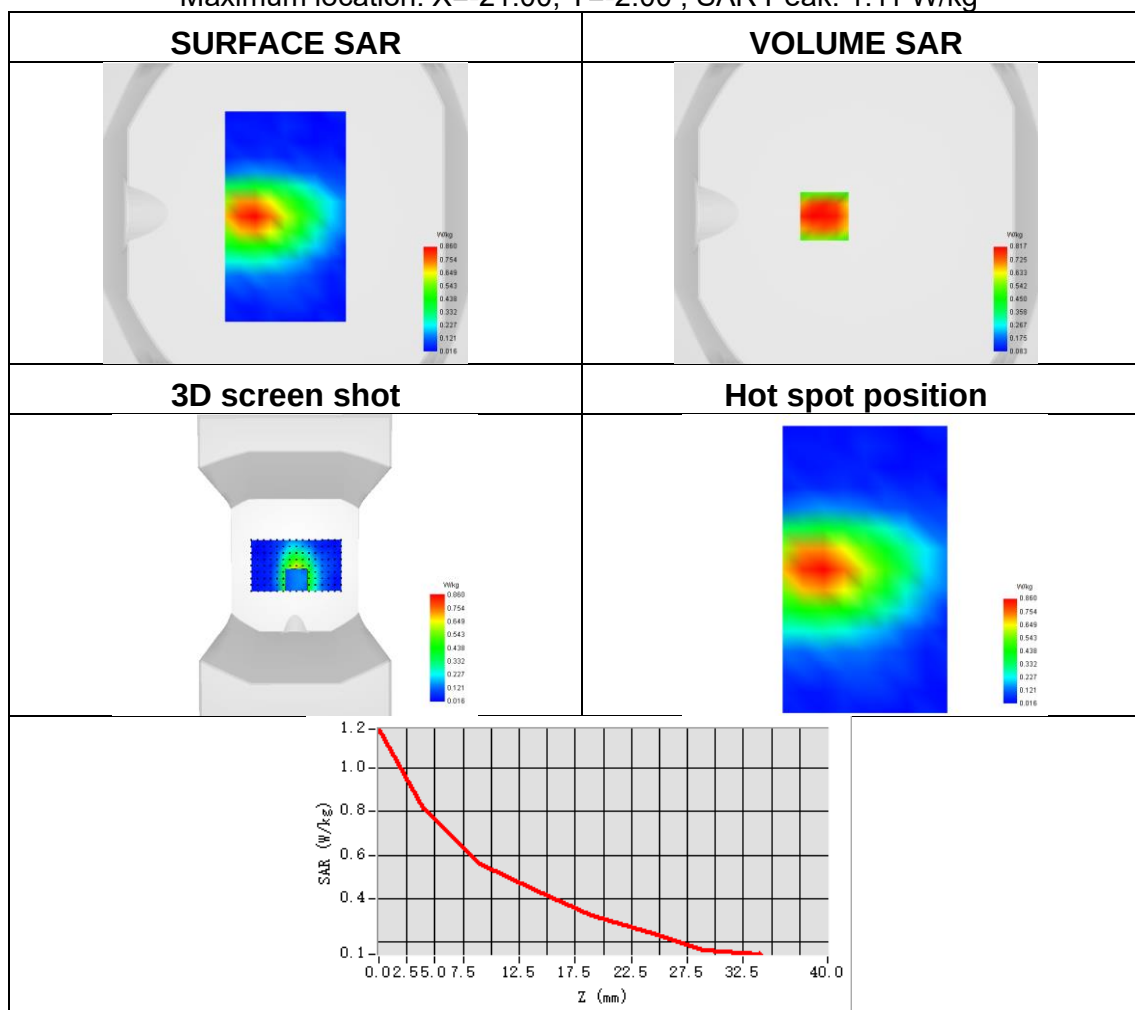




Plot 8:

Test Date	2026-04-29
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Top Side Antenna Vertical
Band	LTE band 71
Signal	LTE FDD
Frequency	688
SAR 10g (W/Kg)	0.558
SAR 1g (W/Kg)	0.827
ConvF	1.69
Relative permittivity	42.37
Conductivity (S/m)	0.90

Maximum location: X=-21.00, Y=-2.00 ; SAR Peak: 1.11 W/kg





Appendix C. Probe Calibration and Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※※END OF THE REPORT※※※※※