



SAR TEST REPORT

Product Name: 4G smart phone

Model Number: F2

FCC ID: 2BN2Q-F2

Issued For : Bliss Phone inc

4403 15th ave STE 412 Brooklyn NY 11219 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: LGT25A019HA01

Sample Received Date: Jan. 06, 2026

Date of Test Jan. 06, 2026 ~ Jan. 28, 2026

Date of Issue Jan. 28, 2026

Head: 0.950 W/kg

Max. SAR (1g)

Body: 0.807 W/kg

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Revision History

Rev.	Issue Date	Contents
00	Jan. 28, 2026	Initial Issue



TEST REPORT CERTIFICATION

Applicant Bliss Phone inc

Address 4403 15th ave STE 412 Brooklyn NY 11219 United States

Manufacture Shenzhen Aizheka electronic technology Co.,LTD

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City

Product Name 4G smart phone

Trademark fusion

Model Number F2

Sample number LGT2601018-4

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

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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 smart phone		
Test Model Number	F2		
Series Number	N/A		
Model Difference	N/A		
Device Category	Portable		
Product stage	Production unit		
RF Exposure Environment	General Population / Uncontrolled		
Hardware Version	S3912E_MB_V0.1		
Software Version	S3912E_XINGYU_S229_V06_2025_12_24		
Frequency Range	LTE Band 2:1850 ~1910MHz LTE Band 4:1710 ~1755MHz LTE Band 5:824 ~ 849MHz LTE Band 7:2500 ~ 2570MHz LTE Band 12:699~716MHz LTE Band 13:777~787MHz LTE Band 17:704 ~ 716MHz LTE Band 66:1710~1780MHz LTE Band 71:663~698MHz 617~652MHz WLAN 802.11b/g/n20: 2412 MHz ~ 2462 MHz WLAN 802.11n40: 2422 MHz ~ 2452 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5150 ~ 5250 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5250 ~ 5350 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5470 ~ 5725 MHz Bluetooth: 2402 ~ 2480 MHz		
Max. Reported SAR(1g): (Limit:1.6W/kg) Test distance: Head:0mm Body:10mm	Mode	Head (W/ kg)	Body Worn and Hotspot (W/ kg)
	LTE Band 2	0.277	0.247
	LTE Band 4	0.36	0.254
	LTE Band 5	0.237	0.236
	LTE Band 7	0.142	0.259
	LTE Band 12	0.198	0.489
	LTE Band 13	0.369	0.807
	LTE Band 17	0.194	0.3
	LTE Band 66	0.139	0.151
	LTE Band 71	0.092	0.262
	2.4G WLAN	0.95	0.29
	5.2G WLAN	0.696	0.214
	5.3G WLAN	0.451	0.127
	5.6G WLAN	0.211	0.047
Bluetooth ^{Note}		0.236	0.236
1-g Sum SAR		1.319	1.097
Battery	Rated Voltage:3.88V Capacity: 2100mAh		
Description test modes	SIM 1 and SIM 2 is a chipset unit and tested as single chipset, SIM 1 is used to		



	tested / Only support single SIM Card.
Operating Mode:	LTE: QPSK, 16QAM 2.4G WLAN: 802.11b(DSSS): CCK, DQPSK, DBPSK 802.11g(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 802.11n(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 5G WLAN: 802.11a(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 802.11n(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 802.11ac (OFDM): BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM Bluetooth: GFSK $+\pi/4$ DQPSK+8DPSK BLE: GFSK
Antenna Specification	LTE: PIFA Antenna Bluetooth: PIFA Antenna WLAN: PIFA Antenna
Operating Mode	Maximum continuous output
SIM Card	Support dual-SIM, dual standby, the multiple SIM card with two lines cannot trans mitting at the same time
Hotspot Mode	Support
DTM Mode	Not Support
Note 1: The BT value was Estimated.	



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 941225 D06 v02r01	Hotspot Mode SAR
9	FCC KDB 648474 D04 v01r03	SAR Evaluation Considerations for Wireless Handsets
10	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

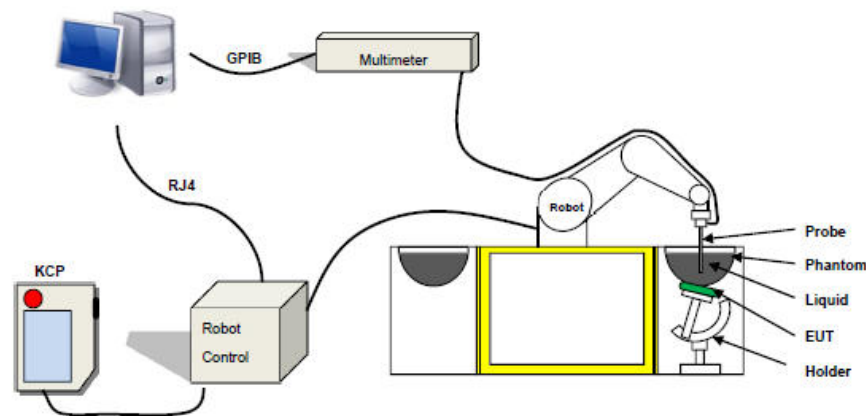
$$SAR = \frac{\sigma E^2}{\rho}$$

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 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 2225-EPGO-450 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.

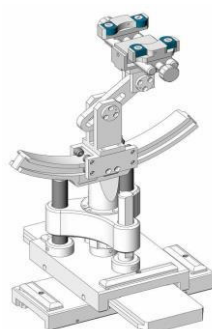


Figure-SN 06/22 SAM 148



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]					
2026-01-10	22.8	50	750	22.4	Permittivity	41.90	42.33	1.03	±5
					Conductivity	0.89	0.86	-3.37	±5
2026-01-09	20.6	56	750	20.3	Permittivity	41.90	42.03	0.31	±5
					Conductivity	0.89	0.93	4.49	±5
2026-01-09	22.1	57	835	21.8	Permittivity	41.50	42.47	2.34	±5
					Conductivity	0.90	0.92	2.22	±5
2026-01-13	23.5	51	1800	23.1	Permittivity	40.00	41.04	2.60	±5
					Conductivity	1.40	1.35	-3.57	±5
2026-01-14	21.3	40	1900	21	Permittivity	40.00	40.06	0.15	±5
					Conductivity	1.40	1.45	3.57	±5
2026-01-09	21.8	44	2450	21.5	Permittivity	39.20	40.36	2.96	±5
					Conductivity	1.80	1.77	-1.67	±5
2026-01-07	20.2	42	5200	19.9	Permittivity	36.00	36.54	1.50	±5
					Conductivity	4.66	4.65	-0.21	±5
2026-01-07	20.4	56	5400	20.1	Permittivity	35.80	36.59	2.21	±5
					Conductivity	4.86	4.81	-1.03	±5
2026-01-08	22.6	57	5600	22.2	Permittivity	35.55	36.21	1.86	±5
					Conductivity	5.07	5.07	0.10	±5

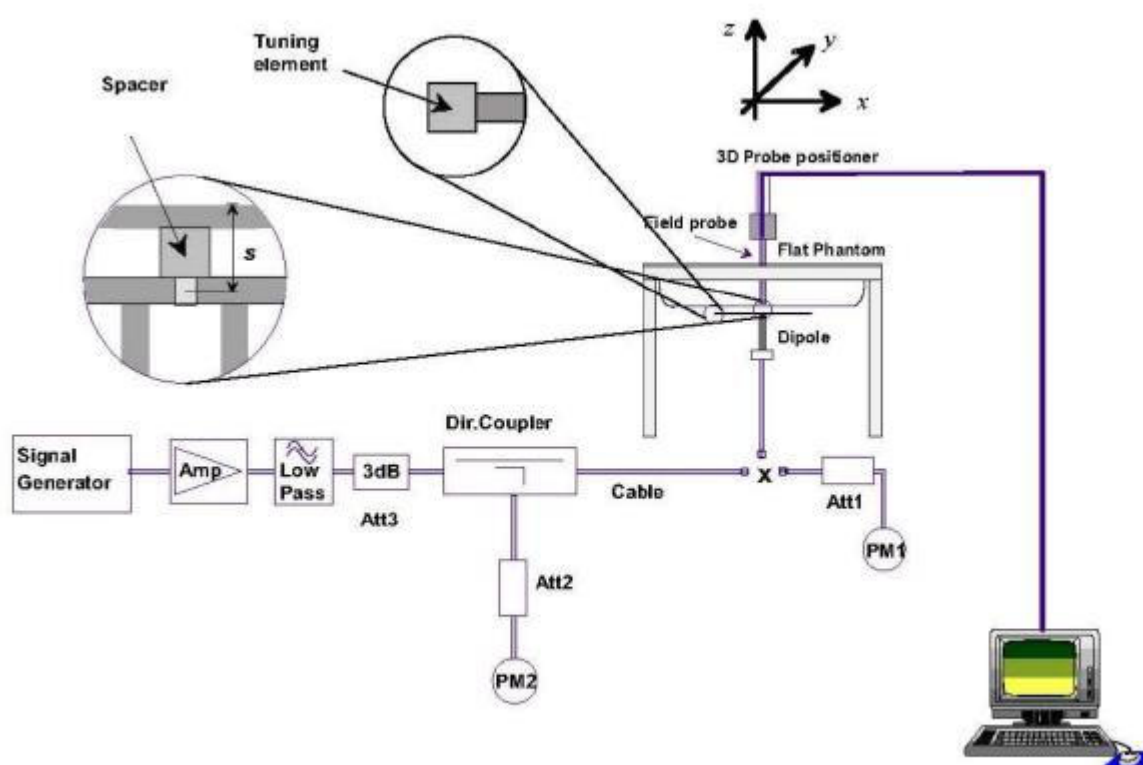


5. SAR System Validation

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)	(%)
2026-01-10	750	100	0.829	8.29	8.51	-2.59	10
2026-01-09	750	100	0.838	8.38	8.51	-1.53	10
2026-01-09	835	100	0.941	9.41	9.63	-2.28	10
2026-01-13	1800	100	3.683	36.83	36.60	0.63	10
2026-01-14	1900	100	4.022	40.22	40.20	0.05	10
2026-01-09	2450	100	5.336	53.36	52.98	0.72	10
2026-01-07	5200	100	7.786	77.86	77.84	0.03	10
2026-01-07	5400	100	7.726	77.26	76.82	0.57	10
2026-01-08	5600	100	8.195	81.95	82.15	-0.24	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

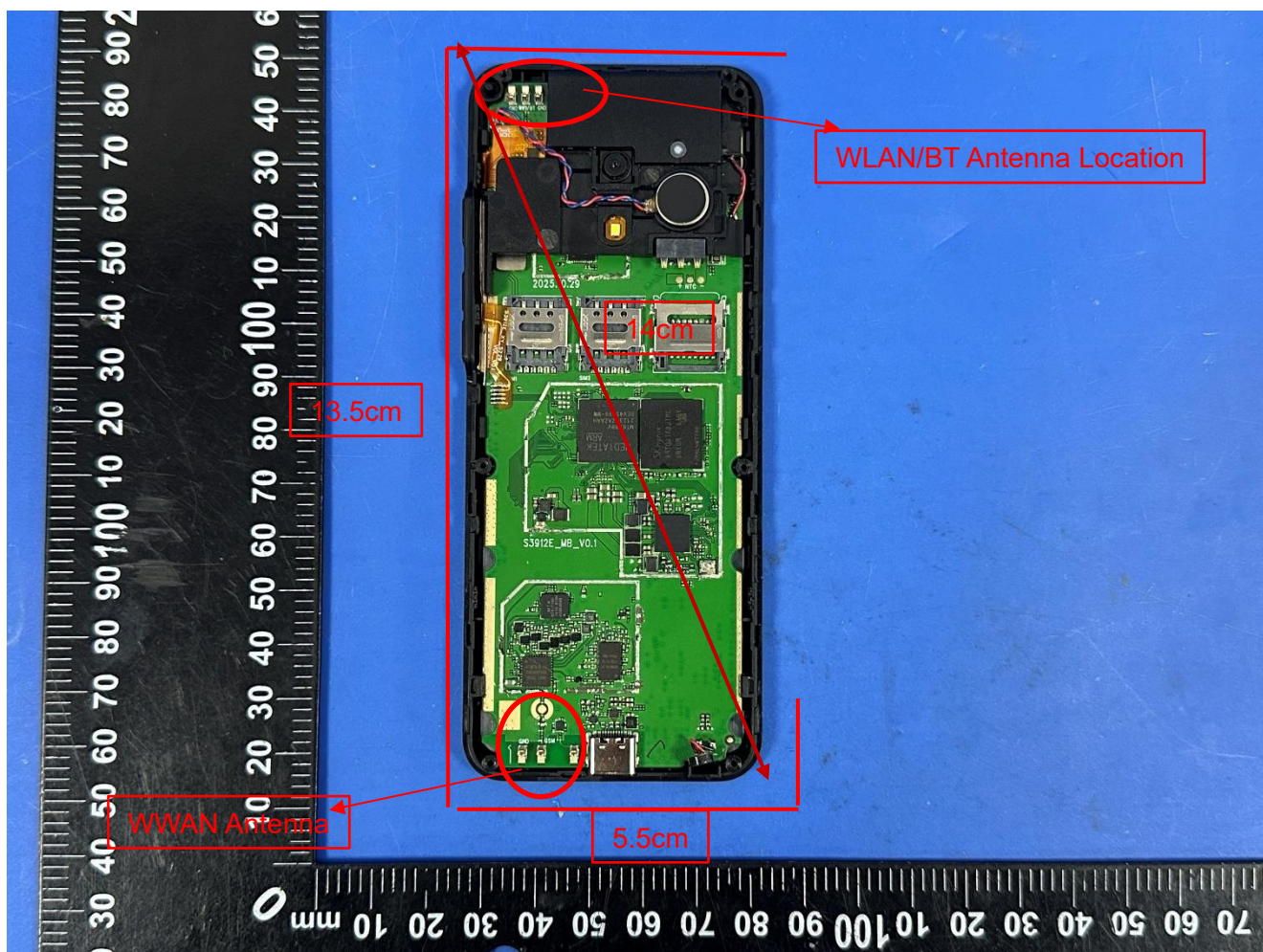
First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan 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

It is a Smart phone, support LTE/WLAN/BT mode.

Top side



Bottom side
(Back view)

Antenna Separation Distance(mm)						
ANT	Back Side	Front Side	Left Side	Right Side	Top Side	Bottom Side
WLAN/BT	≤5	≤5	≤5	40	≤5	125
WWAN	≤5	≤5	≤5	≤5	125	≤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 WWAN/WLAN/BT SAR evaluation of Maximum power (dBm) summing tolerance.

Exposure Position	Wireless Interface	LTE Band 2	LTE Band 4	LTE Band 5	LTE Band 7	LTE Band 12
	Calculated Frequency (MHz)	1860	1732.5	836.5	2510	711
	Maximum Turn-up power (dBm)	18.5	19.2	15.7	15.3	17.5
	Maximum rated power(mW)	70.79	83.18	37.15	33.88	56.23
Back Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	11.00	11.40	16.40	9.47	17.79
	Testing required?	YES	YES	YES	YES	YES
Front Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	11.00	11.40	16.40	9.47	17.79
	Testing required?	YES	YES	YES	YES	YES
Left Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	11.00	11.40	16.40	9.47	17.79
	Testing required?	YES	YES	YES	YES	YES
Right Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	11.00	11.40	16.40	9.47	17.79
	Testing required?	YES	YES	YES	YES	YES
Top Edge	Separation distance (mm)	125	125	125	125	125
	exclusion threshold(mW)	859.99	863.96	582.26	844.68	533.39
	Testing required?	NO	NO	NO	NO	NO
Bottom Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	11.00	11.40	16.40	9.47	17.79
	Testing required?	YES	YES	YES	YES	YES



Exposure Position	Wireless Interface	LTE Band 13	LTE Band 17	LTE Band 66	LTE Band 71	BT
	Calculated Frequency (MHz)	782	710	1745	680.5	2780
	Maximum Turn-up power (dBm)	17	17.3	17.2	16.5	7.5
	Maximum rated power(mW)	50.12	53.70	52.48	44.67	5.62
Back Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.96	17.80	11.36	18.18	9.00
	Testing required?	YES	YES	YES	YES	NO
Front Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.96	17.80	11.36	18.18	9.00
	Testing required?	YES	YES	YES	YES	NO
Left Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.96	17.80	11.36	18.18	9.00
	Testing required?	YES	YES	YES	YES	NO
Right Edge	Separation distance (mm)	5	5	5	5	40
	exclusion threshold(mW)	16.96	17.80	11.36	18.18	71.97
	Testing required?	YES	YES	YES	YES	NO
Top Edge	Separation distance (mm)	125	125	125	125	5
	exclusion threshold(mW)	560.62	533.02	863.55	522.08	9.00
	Testing required?	NO	NO	NO	NO	NO
Bottom Edge	Separation distance (mm)	5	5	5	5	125
	exclusion threshold(mW)	16.96	17.80	11.36	18.18	1479.96
	Testing required?	YES	YES	YES	YES	NO



Exposure Position	Wireless Interface	2.4G WLAN	5.2G WLAN	5.3G WLAN	5.6G WLAN
	Calculated Frequency (MHz)	2462	5240	5300	5500
	Maximum Turn-up power (dBm)	17.7	13.2	13	12.5
	Maximum rated power(mW)	58.88	20.89	19.95	17.78
Back Side	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	9.56	6.55	6.52	6.40
	Testing required?	YES	YES	YES	YES
Front Side	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	9.56	6.55	6.52	6.40
	Testing required?	YES	YES	YES	YES
Left Edge	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	9.56	6.55	6.52	6.40
	Testing required?	YES	YES	YES	YES
Right Edge	Separation distance (mm)	40	40	40	40
	exclusion threshold(mW)	76.48	52.42	52.12	51.17
	Testing required?	NO	NO	NO	NO
Top Edge	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	9.56	6.55	6.52	6.40
	Testing required?	YES	YES	YES	YES
Bottom Edge	Separation distance (mm)	125	125	125	125
	exclusion threshold(mW)	1326.60	2685.53	2715.16	2813.96
	Testing required?	NO	NO	NO	NO



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 D01, 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 D01, standalone SAR test exclusion threshold is applied; if the distance of the antenna to the user is <25mm, 25mm is user to determine SAR exclusion threshold
4. per KDB 447498 D01, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distance $\leq 50\text{mm}$ are determined by:
$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR}$$
$$f(\text{GHz}) \text{ is the RF channel transmit frequency in GHz. Power and distance are rounded to the nearest mW and mm before calculation.}$$

The result is rounded to one decimal place for comparison

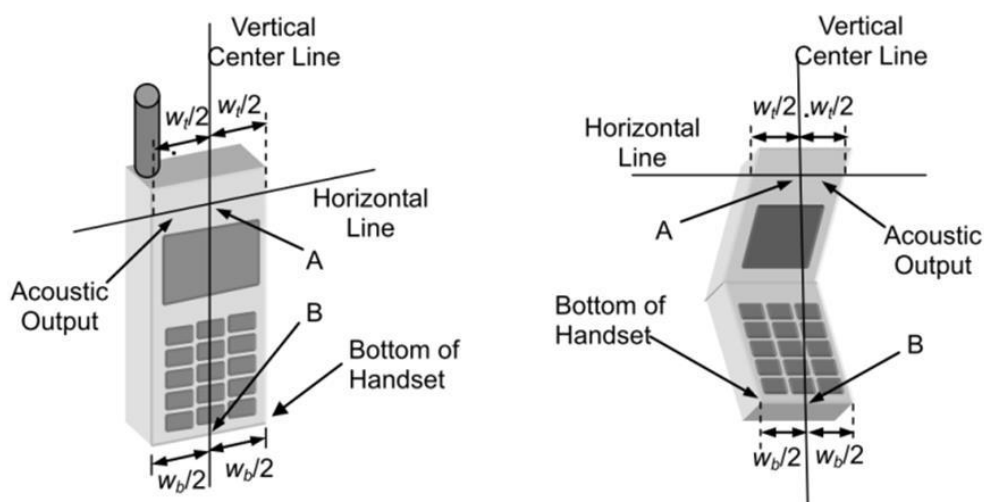
For <50mm distance, we just calculate mW of the exclusion threshold value(3.0) to do compare
5. per KDB 447498 D01, at 100 MHz to 6GHz and for test separation distances >50mm, the SAR test exclusion threshold is determined according to the following
 - a) [threshold at 50mm in step 1] + (test separation distance - 50mm) * (f (MHz)/150)]mW, at 100 MHz to 1500 MHz
 - b) [threshold at 50mm in step 1] + (test separation distance - 50mm) * 10]mW at > 1500MHz and $\leq 6\text{GHz}$
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.

8. EUT Test Position

This EUT was tested in Right Cheek, Right Titled, Left Cheek, Left Titled, Front Face and Rear Face.

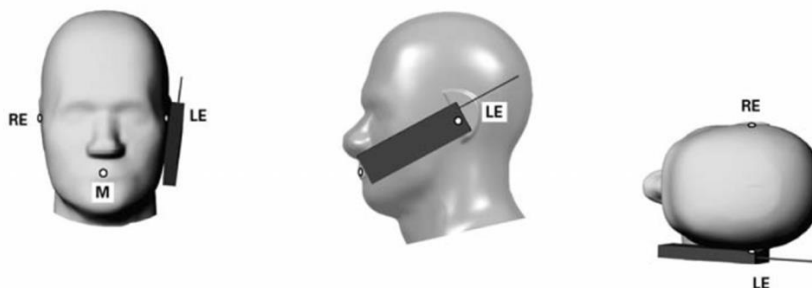
8.1 Define Two Imaginary Lines on the Handset

- (1) The vertical centerline passes through two points on the front side of the handset the midpoint of the width w_t of the handset at the level of the acoustic output, and the midpoint of the width w_b of the handset.
- (2) The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output. The horizontal line is also tangential to the face of the handset at point A.
- (3) The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.



Cheek Position

- 1) To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE.
- 2) To move the device towards the phantom with the ear piece aligned with the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost





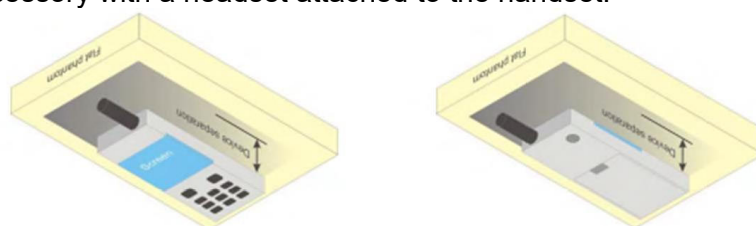
Title Position

- (1) To position the device in the “cheek” position described above.
- (2) While maintaining the device in the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until with the ear is lost.



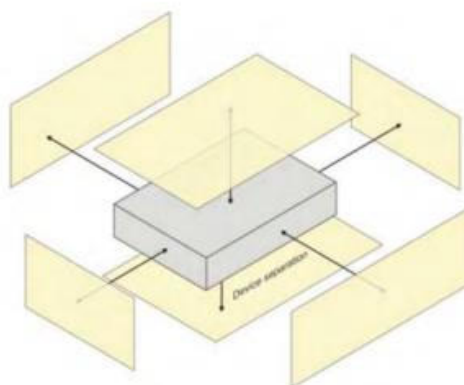
Body-worn Position Conditions:

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 D01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. When the same wireless transmission configuration is used for testing body-worn accessory and hotspot mode SAR, respectively, in voice and data mode, SAR results for the most conservative *test separation distance* configuration may be used to support both SAR conditions. When the *reported* SAR for a body-worn accessory, measured without a headset connected to the handset, is $> 1.2 \text{ W/kg}$, the highest *reported* SAR configuration for that wireless mode and frequency band should be repeated for the body-worn accessory with a headset attached to the handset.



8.2 Hotspot mode exposure position condition

For handsets that support hotspot mode operations, with wireless router capabilities and various web browsing function, the relevant hand and body exposure condition are tested according to the hotspot SAR procedures in KDB 941225. A test separation distance of 10 mm is required between the phantom and all surface and edges with a transmitting antenna located within 25 mm from that surface or edge. When form factor of a handset is smaller than 9cm x 5cm, a test separation distance of 5mm (instead of 10mm) is required for testing hotspot mode. When the separate distance required for body-worn accessory testing is larger than or equal to that tested for hotspot mode, in the same wireless mode and for the same surface of the phone, the hotspot mode SAR data may be used to support body-worn accessory SAR compliance for that particular configuration (surface).





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	5.8	N	1	1	1	5.8	5.8	∞
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	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
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	1.81	1.81	∞
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	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Probe positioning with respect to phantom shell	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
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	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	N	1	1	0.84	2.00	1.68	∞
Liquid Conductivity - Measurement Uncertainty)	4	N	1	0.78	0.71	3.12	2.84	5
Liquid Permittivity - Measurement Uncertainty	5	N	1	0.23	0.26	1.15	1.30	5
Liquid Conductivity (Temperature Uncertainty)	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	∞
Liquid Permittivity (Temperature Uncertainty)	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	∞
Combined Standard Uncertainty		RSS				10.47	10.34	
Expanded Uncertainty (95% Confidence interval)		K				20.95	20.69	



9.2 System validation Uncertainty

Uncertainty Component	Tol (+/- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+/-%)	10g Ui (+/-%)	vi
Measurement System								
Probe calibration	5.8	N	1	1	1	5.8	5.8	∞
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	0.71	0.71	∞
System detection limits	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Modulation response	0	N	$\sqrt{3}$	0	0	0.00	0.00	∞
Readout Electronics	0.5	N	1	1	1	0.50	0.50	∞
Response Time	0	R	$\sqrt{3}$	0	0	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	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Probe positioning with respect to phantom shell	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
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	N	1	1	0.84	2.00	1.68	∞
Liquid Conductivity - Measurement Uncertainty)	4	N	1	0.78	0.71	3.12	2.84	5
Liquid Permittivity - Measurement Uncertainty	5	N	1	0.23	0.26	1.15	1.30	5
Liquid Conductivity (Temperature Uncertainty)	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	∞
Liquid Permittivity (Temperature Uncertainty)	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	∞
Combined Standard Uncertainty		RSS				10.16	10.03	
Expanded Uncertainty (95% Confidence interval)		K				20.32	20.06	



10. Conducted Power Measurement

10.1 Test Result

2.4G WLAN

2.4GWIFI				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11b	1	2412	17.19	52.36
	6	2437	17.26	53.21
	11	2462	17.57	57.15
802.11g	1	2412	13.24	21.09
	6	2437	15.25	33.50
	11	2462	15.5	35.48
802.11 n-HT20	1	2412	13.4	21.88
	6	2437	15.41	34.75
	11	2462	15.42	34.83
802.11 n-HT40	3	2422	14.65	29.17
	6	2437	14.92	31.05
	9	2452	14.91	30.97

Bluetooth

BT				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	6.34	4.31
	39	2441	6.74	4.72
	78	2480	7.43	5.53
$\pi/4$ -QPSK(2Mbps)	0	2402	6.07	4.05
	39	2441	6.49	4.46
	78	2480	7.13	5.16
8DPSK(3Mbps)	0	2402	6.13	4.10
	39	2441	6.51	4.48
	78	2480	7.13	5.16

BLE

BLE				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	6.17	4.14
	19	2440	6.61	4.58
	39	2480	7.24	5.30
GFSK(2Mbps)	0	2402	6.17	4.14
	19	2440	6.61	4.58
	39	2480	7.24	5.30



WLAN (5.2Gband)

5.2G WLAN				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a20	36	5180	12.09	16.18
	40	5200	12.28	16.90
	48	5240	13.02	20.04
802.11 n-HT20	36	5180	11.68	14.72
	40	5200	11.04	12.71
	48	5240	11.88	15.42
802.11 n-HT40	38	5190	9.01	7.96
	46	5230	10.17	10.40
802.11ac-VHT20	36	5180	11.08	12.82
	40	5200	10.59	11.46
	48	5240	11.56	14.32
802.11ac-VHT40	38	5190	10.08	10.19
	46	5230	10.01	10.02
802.11ac-VHT80	42	5210	12.09	16.18

WLAN (5.3G band)

5.3G WLAN				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a20	52	5260	12.31	17.02
	60	5300	12.84	19.23
	64	5320	12.73	18.75
802.11 n-HT20	52	5260	11.25	13.34
	60	5300	11.77	15.03
	64	5320	11.59	14.42
802.11 n-HT40	54	5270	8.16	6.55
	62	5310	7.47	5.58
802.11ac-VHT20	52	5260	10.78	11.97
	60	5300	11.19	13.15
	64	5320	11.52	14.19
802.11ac-VHT40	54	5270	9.95	9.89
	62	5310	9.91	9.79
802.11ac-VHT80	58	5290	12.31	17.02



WLAN (5.6G band)

5.6G WLAN				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a20	100	5500	12.48	17.70
	116	5580	11.89	15.45
	140	5700	11.66	14.66
802.11 n-HT20	100	5500	11.66	14.66
	116	5580	10.71	11.78
	140	5700	10.57	11.40
802.11 n-HT40	102	5510	10.11	10.26
	110	5550	9.89	9.75
	134	5670	9.37	8.65
802.11ac-VHT20	100	5500	10.3	10.72
	116	5580	10.26	10.62
	140	5700	9.63	9.18
802.11ac-VHT40	102	5510	9.44	8.79
	110	5550	9.6	9.12
	134	5670	9.03	8.00
802.11ac-VHT80	106	5530	12.48	17.70
	122	5610	11.89	15.45
	138	5690	11.66	14.66



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	17.70	16.79	17.21
1.4	1	2		18.12	17.48	17.71
1.4	1	5		17.68	16.89	17.43
1.4	3	0		17.77	17.04	17.45
1.4	3	1		17.89	17.40	17.58
1.4	3	2		17.74	17.06	17.52
1.4	6	0		17.76	17.02	17.48
1.4	1	0	16-QAM	17.74	17.19	17.04
1.4	1	2		18.11	17.60	17.52
1.4	1	5		17.75	17.30	17.26
1.4	3	0		17.96	17.49	17.59
1.4	3	1		18.09	17.64	17.73
1.4	3	2		17.92	17.54	17.73
1.4	6	0		17.89	17.38	17.65
3	1	0	QPSK	17.54	16.72	16.79
3	1	7		17.86	17.39	17.45
3	1	14		17.39	17.01	17.39
3	8	0		17.67	16.90	17.11
3	8	4		17.80	17.29	17.32
3	8	7		17.65	17.06	17.37
3	15	0		17.63	16.98	17.26
3	1	0	16-QAM	17.56	16.17	16.95
3	1	7		16.37	16.71	15.52
3	1	14		15.83	16.86	16.95
3	8	0		17.05	16.42	16.10
3	8	4		16.37	16.74	15.66
3	8	7		15.96	17.02	16.03
3	15	0		16.50	16.73	16.03



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	17.21	16.39	16.15
5	1	12		17.42	16.92	16.73
5	1	24		16.94	16.90	16.98
5	12	0		17.29	16.60	16.40
5	12	6		17.35	16.85	16.63
5	12	11		17.12	16.90	16.87
5	25	0		17.22	16.80	16.65
5	1	0	16-QAM	17.72	16.73	16.49
5	1	12		17.94	17.25	17.05
5	1	24		17.49	17.22	17.32
5	12	0		17.29	16.59	16.42
5	12	6		17.36	16.83	16.68
5	12	11		17.15	16.88	16.90
5	25	0		17.17	16.78	16.59
10	1	0	QPSK	17.27	16.26	15.58
10	1	24		17.11	16.89	16.27
10	1	49		16.29	17.09	16.98
10	25	0		17.32	16.56	15.81
10	25	12		17.09	16.81	16.19
10	25	24		16.73	17.05	16.54
10	50	0		17.01	16.78	16.16
10	1	0	16-QAM	17.64	16.44	15.43
10	1	24		17.52	17.03	16.09
10	1	49		16.73	17.23	16.81
10	25	0		17.28	16.58	15.81
10	25	12		17.09	16.82	16.16
10	25	24		16.72	17.04	16.52
10	50	0		16.97	16.82	16.14



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	17.32	16.00	15.84
15	1	37		16.66	16.76	15.71
15	1	74		15.91	17.00	16.91
15	36	0		17.13	16.40	15.65
15	36	18		16.70	16.75	15.76
15	36	39		16.26	17.11	16.31
15	75	0		16.66	16.76	15.95
15	1	0	16-QAM	17.33	16.46	15.98
15	1	38		16.74	17.21	15.90
15	1	75		15.99	17.45	17.07
15	36	0		17.09	16.47	15.73
15	36	18		16.66	16.81	15.82
15	36	39		16.24	17.12	16.36
15	75	0		16.69	16.74	15.92
20	1	0	QPSK	17.92	17.01	16.70
20	1	49		18.26	17.55	17.29
20	1	99		17.82	17.28	17.21
20	50	0		17.69	17.10	17.07
20	50	24		17.80	17.28	17.29
20	50	49		17.63	17.24	17.33
20	100	0		17.64	17.10	17.28
20	1	0	16-QAM	17.76	16.51	17.16
20	1	49		16.58	17.04	15.75
20	1	99		16.06	17.19	17.15
20	50	0		17.05	16.46	16.09
20	50	24		16.40	16.80	15.64
20	50	49		15.99	17.07	15.99
20	100	0		16.50	16.73	16.02



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	17.20	18.18	15.16
1.4	1	2		17.40	18.69	15.54
1.4	1	5		16.82	18.34	15.06
1.4	3	0		17.09	18.44	15.34
1.4	3	1		17.16	18.59	15.43
1.4	3	2		16.94	18.51	15.26
1.4	6	0		17.01	18.46	15.29
1.4	1	0	16-QAM	17.16	18.37	15.04
1.4	1	2		17.42	18.83	15.40
1.4	1	5		16.84	18.55	14.92
1.4	3	0		17.29	18.70	15.52
1.4	3	1		17.37	18.87	15.63
1.4	3	2		17.11	18.81	15.48
1.4	6	0		17.15	18.65	15.49
3	1	0	QPSK	16.98	18.04	15.28
3	1	7		16.88	18.72	15.50
3	1	14		16.10	18.47	14.96
3	8	0		16.89	18.36	15.40
3	8	4		16.80	18.57	15.44
3	8	7		16.46	18.57	15.28
3	15	0		16.65	18.45	15.29
3	1	0	16-QAM	17.12	17.91	15.75
3	1	7		17.06	18.57	15.97
3	1	14		16.21	18.29	15.44
3	8	0		16.87	18.32	15.44
3	8	4		16.81	18.52	15.48
3	8	7		16.41	18.53	15.30
3	15	0		16.61	18.49	15.33



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	16.90	17.92	15.49
5	1	12		16.17	18.27	15.16
5	1	24		15.59	18.34	14.91
5	12	0		16.53	17.98	15.28
5	12	6		16.14	18.18	15.14
5	12	11		15.78	18.29	14.96
5	25	0		16.17	18.20	15.15
5	1	0	16-QAM	16.98	16.66	18.65
5	1	12		15.63	18.09	16.47
5	1	24		17.57	17.28	14.96
5	12	0		15.92	17.56	17.77
5	12	6		15.79	18.04	16.56
5	12	11		16.57	18.02	15.54
5	25	0		16.26	17.78	16.81
10	1	0	QPSK	16.70	17.47	16.27
10	1	24		15.66	18.24	15.40
10	1	49		15.35	17.94	14.67
10	25	0		16.11	17.83	15.86
10	25	12		15.66	18.17	15.44
10	25	24		15.41	18.24	15.03
10	50	0		15.75	18.03	15.50
10	1	0	16-QAM	16.80	17.33	16.74
10	1	24		15.77	18.09	15.86
10	1	49		15.49	17.79	15.13
10	25	0		16.10	17.81	15.85
10	25	12		15.62	18.15	15.47
10	25	24		15.36	18.22	15.06
10	50	0		15.77	18.00	15.50



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	16.71	17.04	17.74
15	1	37		15.43	18.23	15.90
15	1	74		16.26	17.71	14.85
15	36	0		15.99	17.73	16.95
15	36	18		15.59	18.20	16.03
15	36	39		15.83	18.20	15.31
15	75	0		15.89	17.98	16.22
15	1	0	16-QAM	17.16	17.25	17.86
15	1	38		15.89	18.40	15.98
15	1	75		16.74	17.87	14.97
15	36	0		16.03	17.80	16.92
15	36	18		15.62	18.26	16.00
15	36	39		15.89	18.28	15.30
15	75	0		15.87	17.96	16.24
20	1	0	QPSK	17.21	18.46	15.83
20	1	49		16.47	18.84	15.51
20	1	99		15.95	18.93	15.25
20	50	0		16.54	17.99	15.27
20	50	24		16.17	18.18	15.12
20	50	49		15.81	18.32	14.97
20	100	0		16.12	18.12	15.18
20	1	0	16-QAM	17.17	17.03	18.87
20	1	49		15.82	18.43	16.70
20	1	99		17.79	17.62	15.22
20	50	0		15.96	17.62	17.77
20	50	24		15.80	18.09	16.52
20	50	49		16.58	18.06	15.54
20	100	0		16.27	17.79	16.78



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	15.03	13.02	12.68
1.4	1	2		15.04	13.59	13.00
1.4	1	5		14.16	13.40	12.46
1.4	3	0		14.88	13.29	12.83
1.4	3	1		14.87	13.48	12.87
1.4	3	2		14.44	13.50	12.66
1.4	6	0		14.66	13.37	12.72
1.4	1	0	16-QAM	15.07	13.23	12.55
1.4	1	2		15.04	13.75	12.88
1.4	1	5		14.22	13.63	12.35
1.4	3	0		15.10	13.56	13.00
1.4	3	1		15.06	13.77	13.07
1.4	3	2		14.58	13.82	12.88
1.4	6	0		14.79	13.55	12.91
3	1	0	QPSK	15.13	12.78	13.62
3	1	7		14.31	13.57	13.16
3	1	14		13.06	13.80	12.50
3	8	0		14.63	13.16	13.40
3	8	4		14.26	13.47	13.24
3	8	7		13.62	13.69	12.88
3	15	0		14.12	13.38	13.15
3	1	0	16-QAM	14.90	13.22	13.81
3	1	7		14.09	14.03	13.36
3	1	14		12.83	14.28	12.70
3	8	0		14.58	13.19	13.38
3	8	4		14.20	13.51	13.22
3	8	7		13.60	13.73	12.82
3	15	0		14.14	13.46	13.07



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	14.95	12.39	14.80
5	1	12		13.31	13.26	13.46
5	1	24		12.12	14.32	12.50
5	12	0		14.10	12.70	14.13
5	12	6		13.34	13.18	13.51
5	12	11		12.57	13.83	12.83
5	25	0		13.39	13.33	13.60
5	1	0	16-QAM	15.18	12.73	15.33
5	1	12		13.54	13.61	13.99
5	1	24		12.40	14.70	13.14
5	12	0		14.02	12.77	14.17
5	12	6		13.28	13.28	13.54
5	12	11		12.52	13.91	12.87
5	25	0		13.39	13.26	13.55
10	1	0	QPSK	14.66	12.43	15.26
10	1	24		11.88	13.57	15.01
10	1	49		11.96	15.58	12.74
10	25	0		13.24	12.45	15.20
10	25	12		12.17	13.26	14.68
10	25	24		11.81	14.41	13.61
10	50	0		12.57	13.47	14.50
10	1	0	16-QAM	14.85	11.95	15.04
10	1	24		12.12	13.09	14.87
10	1	49		12.06	15.08	12.55
10	25	0		13.28	12.44	15.19
10	25	12		12.21	13.22	14.69
10	25	24		11.83	14.37	13.63
10	50	0		12.63	13.47	14.47



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	13.43	12.42	12.97
5	1	12		13.58	12.23	12.59
5	1	24		13.81	12.04	12.27
5	12	0		13.37	12.24	12.69
5	12	6		13.46	12.15	12.51
5	12	11		13.59	12.05	12.30
5	25	0		13.49	12.17	12.49
5	1	0	16-QAM	13.73	12.72	13.50
5	1	12		13.84	12.54	13.26
5	1	24		14.08	12.37	13.06
5	12	0		13.28	12.25	12.77
5	12	6		13.38	12.17	12.65
5	12	11		13.52	12.06	12.50
5	25	0		13.43	12.09	12.56
10	1	0	QPSK	13.08	12.33	13.27
10	1	24		13.91	12.25	12.83
10	1	49		14.71	12.15	12.68
10	25	0		13.45	12.19	13.06
10	25	12		13.85	12.13	12.81
10	25	24		14.30	12.07	12.51
10	50	0		13.88	12.12	12.84
10	1	0	16-QAM	13.21	12.15	13.66
10	1	24		13.98	12.04	13.25
10	1	49		14.86	11.97	13.12
10	25	0		13.38	12.14	13.07
10	25	12		13.82	12.07	12.81
10	25	24		14.26	12.02	12.73
10	50	0		13.87	12.08	12.82



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	13.13	12.47	13.59
15	1	37		14.36	12.12	13.24
15	1	74		15.04	12.20	12.90
15	36	0		13.64	12.26	13.51
15	36	18		14.24	12.11	13.20
15	36	39		14.76	12.10	12.74
15	75	0		14.26	12.17	13.23
15	1	0	16-QAM	13.27	12.94	13.17
15	1	38		14.70	12.24	13.54
15	1	75		14.78	12.72	12.79
15	36	0		13.94	12.45	13.51
15	36	18		14.58	12.16	13.44
15	36	39		14.89	12.26	13.06
15	75	0		14.44	12.35	13.40
20	1	0	QPSK	13.21	12.85	13.72
20	1	49		14.40	12.51	13.39
20	1	99		15.13	12.60	13.05
20	50	0		13.56	12.29	13.55
20	50	24		14.20	12.12	13.26
20	50	49		14.72	12.11	13.07
20	100	0		14.24	12.14	13.24
20	1	0	16-QAM	13.53	13.11	13.39
20	1	49		14.95	12.42	13.75
20	1	99		15.03	12.92	12.72
20	50	0		13.97	12.40	13.54
20	50	24		14.61	12.12	13.48
20	50	49		14.93	12.19	13.20
20	100	0		14.43	12.32	13.38



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	12.99	10.41	16.11
1.4	1	2		14.22	10.77	15.80
1.4	1	5		14.85	10.20	14.23
1.4	3	0		13.65	10.42	15.94
1.4	3	1		14.15	10.55	15.65
1.4	3	2		14.69	10.34	14.79
1.4	6	0		14.20	10.43	15.38
1.4	1	0	16-QAM	12.97	10.87	16.59
1.4	1	2		14.23	11.18	16.20
1.4	1	5		14.80	10.68	14.69
1.4	3	0		13.89	11.01	16.44
1.4	3	1		14.40	11.12	16.20
1.4	3	2		15.01	10.87	15.33
1.4	6	0		14.45	10.93	15.83
3	1	0	QPSK	13.11	10.76	15.42
3	1	7		15.99	10.63	16.80
3	1	14		16.23	10.13	14.11
3	8	0		14.69	10.66	16.36
3	8	4		15.70	10.58	16.52
3	8	7		16.26	10.34	15.66
3	15	0		15.52	10.50	15.95
3	1	0	16-QAM	14.35	15.09	11.00
3	1	7		13.41	10.45	11.59
3	1	14		10.43	12.99	15.26
3	8	0		15.54	12.51	10.73
3	8	4		14.00	10.73	12.19
3	8	7		11.37	11.03	15.05
3	15	0		14.10	11.88	13.32



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	13.56	11.85	12.08
5	1	12		16.59	10.49	16.10
5	1	24		13.88	10.56	14.56
5	12	0		15.47	11.02	13.86
5	12	6		16.21	10.50	15.71
5	12	11		15.32	10.35	16.01
5	25	0		15.40	10.72	15.18
5	1	0	16-QAM	14.32	12.29	12.60
5	1	12		17.14	10.95	16.58
5	1	24		14.40	11.03	14.95
5	12	0		15.53	11.08	14.07
5	12	6		16.25	10.57	15.89
5	12	11		15.40	10.45	16.11
5	25	0		15.45	10.87	15.16
10	1	0	QPSK	13.16	11.30	15.96
10	1	24		15.97	11.43	17.26
10	1	49		16.06	10.95	14.53
10	25	0		14.70	10.98	16.69
10	25	12		15.73	10.91	16.77
10	25	24		16.29	10.67	15.83
10	50	0		15.65	10.84	16.21
10	1	0	16-QAM	14.87	15.30	10.95
10	1	24		13.84	10.70	11.57
10	1	49		10.90	13.20	15.08
10	25	0		15.59	12.59	10.82
10	25	12		14.01	10.81	12.23
10	25	24		11.44	11.12	15.09
10	50	0		14.13	12.05	13.39



LTE Band 13 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	13.26	16.51	15.74
5	1	12		16.22	15.97	13.31
5	1	24		16.33	13.63	11.56
5	12	0		14.72	16.50	14.71
5	12	6		15.98	16.01	13.50
5	12	11		16.52	14.78	12.26
5	25	0		15.76	15.72	13.59
5	1	0	16-QAM	14.00	16.90	16.09
5	1	12		16.90	16.33	13.67
5	1	24		16.83	13.99	11.96
5	12	0		14.82	16.53	14.77
5	12	6		16.04	16.00	13.54
5	12	11		16.55	14.79	12.34
5	25	0		15.77	15.77	13.63
10	1	0	QPSK	/	14.83	/
10	1	24		/	16.91	/
10	1	49		/	13.00	/
10	25	0		/	16.12	/
10	25	12		/	16.04	/
10	25	24		/	14.11	/
10	50	0		/	15.14	/
10	1	0	16-QAM	/	14.40	/
10	1	24		/	16.68	/
10	1	49		/	12.46	/
10	25	0		/	16.21	/
10	25	12		/	16.06	/
10	25	24		/	14.13	/
10	50	0		/	15.19	/



LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	13.71	10.72	12.23
5	1	12		11.44	11.04	16.22
5	1	24		10.68	13.34	14.95
5	12	0		12.48	10.67	13.93
5	12	6		11.49	11.03	15.82
5	12	11		10.80	12.07	16.30
5	25	0		11.78	11.44	15.43
5	1	0	16-QAM	14.23	11.15	12.71
5	1	12		12.04	11.49	16.70
5	1	24		11.37	13.81	15.33
5	12	0		12.56	10.73	14.17
5	12	6		11.58	11.11	16.03
5	12	11		10.90	12.19	16.39
5	25	0		11.78	11.55	15.40
10	1	0	QPSK	13.58	12.19	11.19
10	1	24		11.09	11.09	11.61
10	1	49		16.54	17.09	15.40
10	25	0		11.45	11.00	10.95
10	25	12		10.93	11.36	12.32
10	25	24		12.88	14.33	15.27
10	50	0		12.20	12.92	13.55
10	1	0	16-QAM	13.04	11.92	11.30
10	1	24		10.52	10.82	11.62
10	1	49		16.00	16.91	15.56
10	25	0		11.33	10.87	10.83
10	25	12		10.80	11.24	12.25
10	25	24		12.69	14.19	15.20
10	50	0		12.07	12.74	13.45



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	15.15	14.74	15.97
1.4	1	2		15.31	15.03	16.31
1.4	1	5		14.73	14.46	15.71
1.4	3	0		15.13	14.77	16.14
1.4	3	1		15.16	14.84	16.20
1.4	3	2		14.93	14.63	15.96
1.4	6	0		14.97	14.69	16.03
1.4	1	0	16-QAM	14.81	15.05	16.12
1.4	1	2		15.10	15.33	16.42
1.4	1	5		14.53	14.78	15.90
1.4	3	0		15.23	15.22	16.37
1.4	3	1		15.30	15.30	16.46
1.4	3	2		15.08	15.02	16.24
1.4	6	0		15.09	15.05	16.17
3	1	0	QPSK	15.01	14.96	16.32
3	1	7		15.01	14.81	16.40
3	1	14		14.24	14.17	15.72
3	8	0		14.94	14.92	16.39
3	8	4		14.89	14.84	16.36
3	8	7		14.54	14.52	16.07
3	15	0		14.66	14.68	16.22
3	1	0	16-QAM	14.82	15.53	16.51
3	1	7		14.81	15.50	16.58
3	1	14		14.02	14.72	15.88
3	8	0		14.88	15.11	16.38
3	8	4		14.82	15.04	16.34
3	8	7		14.52	14.68	16.04
3	15	0		14.72	14.86	16.14



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	14.52	14.92	15.98
5	1	12		14.04	14.49	16.02
5	1	24		13.14	13.57	15.27
5	12	0		14.29	14.81	16.01
5	12	6		14.06	14.52	15.95
5	12	11		13.56	14.09	15.62
5	25	0		13.92	14.44	15.84
5	1	0	16-QAM	14.81	15.50	16.30
5	1	12		14.38	15.08	16.36
5	1	24		13.49	14.18	15.60
5	12	0		14.31	14.77	16.01
5	12	6		14.07	14.53	15.96
5	12	11		13.59	14.04	15.59
5	25	0		13.87	14.32	15.86
10	1	0	QPSK	14.67	15.74	15.65
10	1	24		13.54	14.64	16.36
10	1	49		13.30	13.31	15.59
10	25	0		14.14	15.25	16.09
10	25	12		13.66	14.72	16.26
10	25	24		13.38	13.96	16.03
10	50	0		13.72	14.60	16.08
10	1	0	16-QAM	15.10	15.90	15.54
10	1	24		13.98	14.82	16.21
10	1	49		13.77	13.49	15.43
10	25	0		14.13	15.23	16.07
10	25	12		13.65	14.66	16.24
10	25	24		13.42	13.96	16.04
10	50	0		13.72	14.65	16.06



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	14.89	16.20	14.52
15	1	37		13.38	14.44	15.95
15	1	74		14.22	12.93	15.56
15	36	0		13.96	15.57	15.31
15	36	18		13.48	14.60	15.88
15	36	39		13.71	13.64	16.01
15	75	0		13.79	14.71	15.69
15	1	0	16-QAM	14.89	16.67	14.70
15	1	38		13.44	14.92	16.11
15	1	75		14.30	13.41	15.70
15	36	0		13.93	15.59	15.36
15	36	18		13.46	14.64	15.95
15	36	39		13.70	13.69	16.08
15	75	0		13.81	14.66	15.67
20	1	0	QPSK	15.25	16.93	13.98
20	1	49		13.92	14.88	15.68
20	1	99		15.91	13.25	15.96
20	50	0		14.01	15.85	14.58
20	50	24		13.86	14.68	15.49
20	50	49		14.66	13.62	16.07
20	100	0		14.25	14.86	15.32
20	1	0	16-QAM	14.96	16.71	13.72
20	1	49		13.62	14.64	15.44
20	1	99		15.55	13.01	15.75
20	50	0		13.97	15.86	14.54
20	50	24		13.87	14.72	15.48
20	50	49		14.64	13.61	16.05
20	100	0		14.28	14.89	15.32



LTE Band 71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	9.71	10.24	10.77
5	1	12		9.41	11.65	10.00
5	1	24		11.72	13.86	9.37
5	12	0		8.82	10.75	10.05
5	12	6		9.21	11.60	9.87
5	12	11		10.48	12.76	10.01
5	25	0		9.81	11.86	10.06
5	1	0	16-QAM	10.35	10.63	11.19
5	1	12		10.18	12.06	10.44
5	1	24		12.50	14.34	9.86
5	12	0		8.97	10.79	10.19
5	12	6		9.33	11.61	10.03
5	12	11		10.60	12.89	10.14
5	25	0		9.83	11.94	10.10
10	1	0	QPSK	9.89	14.87	11.29
10	1	24		12.33	11.52	14.59
10	1	49		13.07	12.82	10.23
10	25	0		13.12	11.52	14.73
10	25	12		12.71	12.59	14.35
10	25	24		10.84	14.71	11.27
10	50	0		12.05	13.30	13.28
10	1	0	16-QAM	9.85	10.25	14.67
10	1	24		12.54	11.43	11.17
10	1	49		13.18	16.29	10.30
10	25	0		10.28	10.46	11.94
10	25	12		12.86	11.78	10.50
10	25	24		14.24	14.29	10.17
10	50	0		12.84	12.67	11.21



LTE Band 71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	9.64	11.82	15.99
15	1	37		15.04	11.66	11.52
15	1	74		9.90	15.32	10.46
15	36	0		12.25	10.68	15.38
15	36	18		13.69	12.09	12.59
15	36	39		11.95	15.07	10.26
15	75	0		12.30	13.17	13.43
15	1	0	16-QAM	9.77	12.36	16.24
15	1	38		15.10	12.19	11.75
15	1	75		10.06	15.83	10.73
15	36	0		12.31	10.78	15.55
15	36	18		13.70	12.27	12.75
15	36	39		11.94	15.24	10.41
15	75	0		12.38	13.27	13.54
20	1	0	QPSK	9.68	10.29	14.15
20	1	49		12.30	11.51	10.62
20	1	99		13.00	16.40	9.89
20	50	0		10.16	10.45	11.88
20	50	24		12.77	11.75	10.41
20	50	49		14.20	14.26	10.08
20	100	0		12.05	13.30	13.28
20	1	0	16-QAM	10.45	15.12	11.61
20	1	49		12.66	11.86	14.85
20	1	99		13.53	13.11	10.61
20	50	0		13.26	11.59	14.85
20	50	24		12.75	12.67	14.49
20	50	49		10.96	14.81	11.37
20	100	0		12.13	13.39	13.35



10.2 Tune up Power

Mode	2.4G WLAN
802.11b	16.7±1dBm
802.11g	14.7±1dBm
802.11n(HT20)	14.7±1dBm
802.11n(HT40)	14±1dBm

Mode	5.2G WLAN
802.11a	12.2±1dBm
802.11 n-HT20	11±1dBm
802.11 n-HT40	9.3±1dBm
802.11 ac-VHT20	11±1dBm
802.11 ac-VHT40	9.3±1dBm

Mode	5.3G WLAN
802.11a	12±1dBm
802.11 n-HT20	11±1dBm
802.11 n-HT40	7.3±1dBm
802.11 ac-VHT20	11±1dBm
802.11 ac-VHT40	9±1dBm

Mode	5.6G WLAN
802.11a	11.5±1dBm
802.11 n-HT20	11±1dBm
802.11 n-HT40	9.3±1dBm
802.11 ac-VHT20	9.5±1dBm
802.11 ac-VHT40	9±1dBm

Mode	BT
GFSK	6.5±1dBm
$\pi/4$ -DQPSK	6.3±1dBm
8DPSK	6.3±1dBm

Mode	BLE
GFSK(1Mbps)	5.3±1dBm
GFSK(2Mbps)	6±1dBm



BW[MHz]	RB Size		Mode	Band 2	Band 4	Band 7	Band 66	Band 71
20	1	LOW	QPSK	17.5±1dBm	15.2±1dBm	14.3±1dBm	14.5±1dBm	12.3±1dBm
20	1	MID		16.7±1dBm	18.2±1dBm	12±1dBm	16.2±1dBm	15.5±1dBm
20	1	HIGH		16.5±1dBm	14.5±1dBm	12.2±1dBm	13±1dBm	9±1dBm
20	50	LOW		17±1dBm	15±1dBm	14±1dBm	14±1dBm	13.5±1dBm
20	50	MID		16.5±1dBm	17.5±1dBm	11.3±1dBm	13±1dBm	13.5±1dBm
20	50	HIGH		16.5±1dBm	14.2±1dBm	12.3±1dBm	15.3±1dBm	9.2±1dBm
20	100	LOW		17±1dBm	15.3±1dBm	13.5±1dBm	13.5±1dBm	11.2±1dBm
20	100	MID		16.3±1dBm	17.3±1dBm	11.3±1dBm	14±1dBm	12.5±1dBm
20	100	HIGH		16.5±1dBm	14.3±1dBm	12.5±1dBm	14.5±1dBm	12.5±1dBm
20	1	LOW	16-QAM	17±1dBm	16.3±1dBm	14.3±1dBm	14±1dBm	9.5±1dBm
20	1	MID		15.7±1dBm	16.2±1dBm	12±1dBm	16±1dBm	14.3±1dBm
20	1	HIGH		16.3±1dBm	18±1dBm	12±1dBm	13±1dBm	11±1dBm
20	50	LOW		15.2±1dBm	15±1dBm	14±1dBm	14±1dBm	12.5±1dBm
20	50	MID		16.3±1dBm	17.3±1dBm	11.3±1dBm	13±1dBm	10.7±1dBm
20	50	HIGH		15.2±1dBm	16±1dBm	12.5±1dBm	15.3±1dBm	14±1dBm
20	100	LOW		15.7±1dBm	15.5±1dBm	13.5±1dBm	13.5±1dBm	11.3±1dBm
20	100	MID		16±1dBm	17±1dBm	11.5±1dBm	14±1dBm	12.5±1dBm
20	100	HIGH		15.3±1dBm	16±1dBm	12.5±1dBm	14.5±1dBm	12.5±1dBm

BW[MHz]	RB Size		Mode	Band 5	Band 12	Band 13	Band 17
10	1	LOW	QPSK	11.2±1dBm	15±1dBm	N/A	15.7±1dBm
10	1	MID		14.7±1dBm	10.5±1dBm	16±1dBm	16.3±1dBm
10	1	HIGH		12±1dBm	16.5±1dBm	N/A	14.5±1dBm
10	25	LOW		12.5±1dBm	15±1dBm	N/A	12±1dBm
10	25	MID		11.5±1dBm	10±1dBm	15.3±1dBm	13.5±1dBm
10	25	HIGH		14.5±1dBm	16±1dBm	N/A	14.5±1dBm
10	50	LOW		11.7±1dBm	15±1dBm	N/A	11.5±1dBm
10	50	MID		12.6±1dBm	10±1dBm	14.3±1dBm	12±1dBm
10	50	HIGH		13.7±1dBm	15.5±1dBm	N/A	12.7±1dBm
10	1	LOW	16-QAM	11.3±1dBm	14±1dBm	N/A	15.2±1dBm
10	1	MID		14.3±1dBm	14.5±1dBm	16±1dBm	16±1dBm
10	1	HIGH		11.7±1dBm	10±1dBm	N/A	14.7±1dBm
10	25	LOW		12.5±1dBm	14.7±1dBm	N/A	12±1dBm
10	25	MID		11.5±1dBm	11.7±1dBm	15.5±1dBm	13.3±1dBm
10	25	HIGH		14.3±1dBm	10±1dBm	N/A	14.5±1dBm
10	50	LOW		12±1dBm	13.3±1dBm	N/A	11.2±1dBm
10	50	MID		12.5±1dBm	11.3±1dBm	14.3±1dBm	12±1dBm
10	50	HIGH		13.5±1dBm	12.5±1dBm	N/A	12.5±1dBm

11. EUT and Test Setup Photo

11.1 EUT Photos

Front side

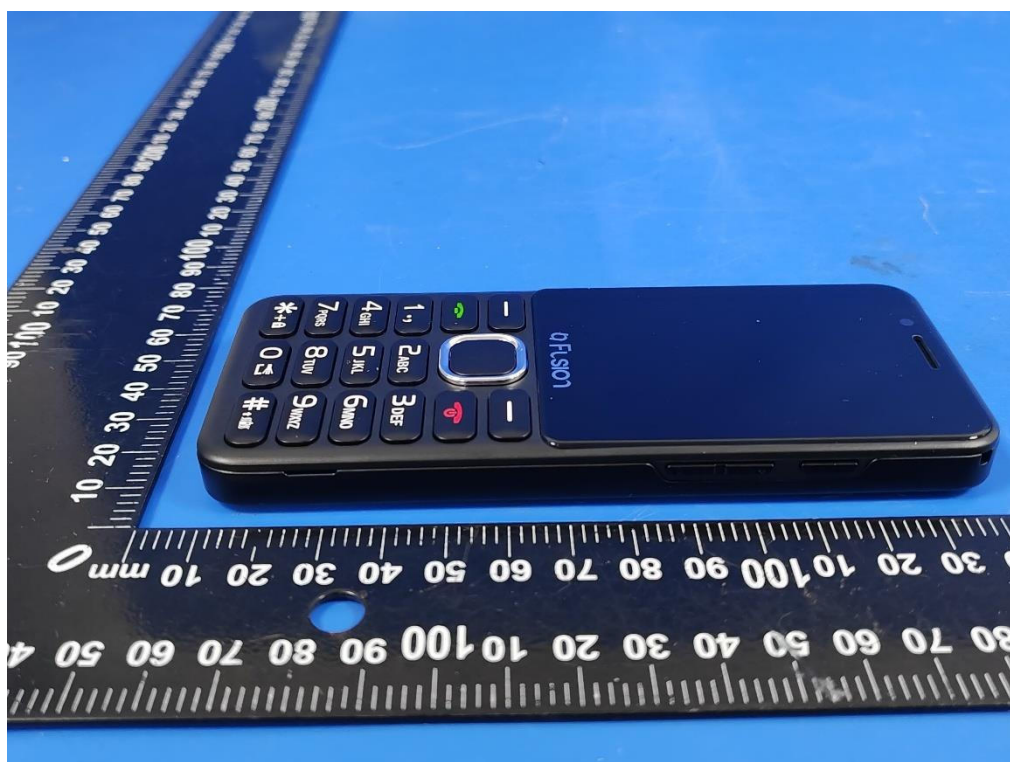


Back side

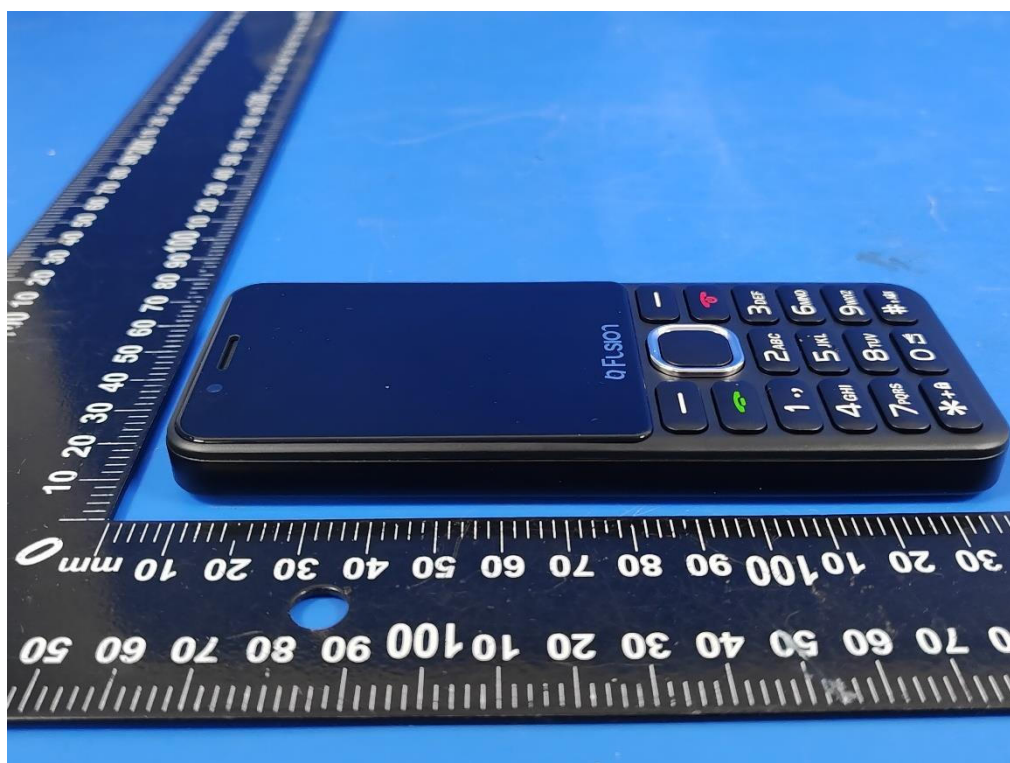




Right Edge



Left Edge





Top Edge



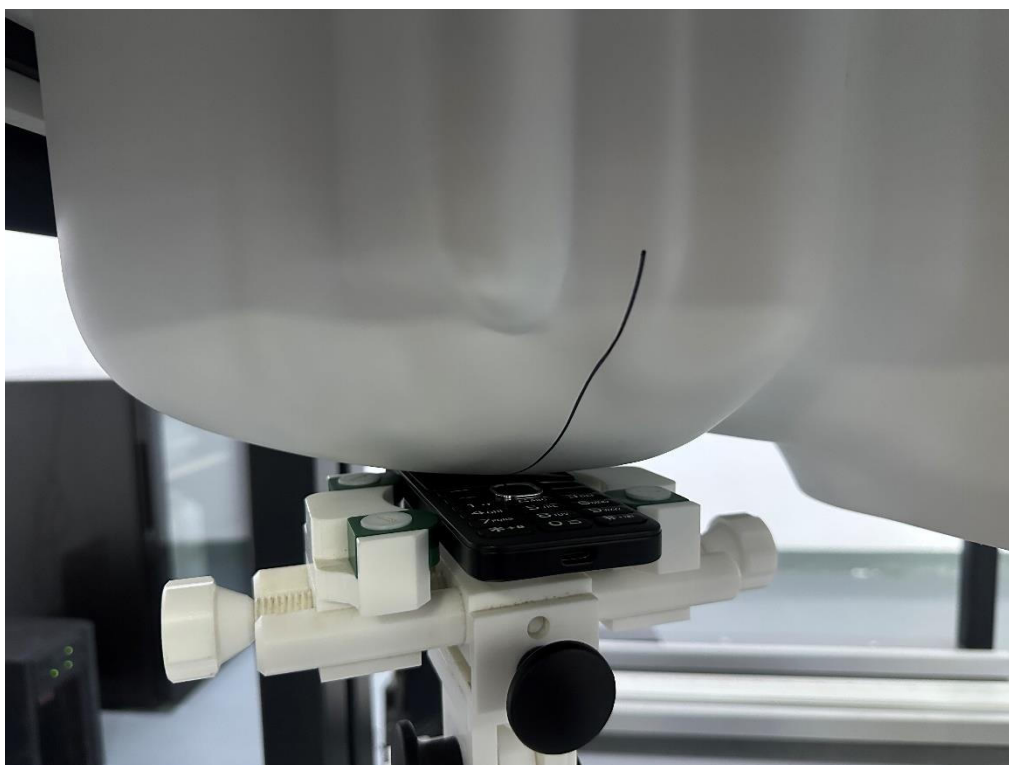
Bottom Edge



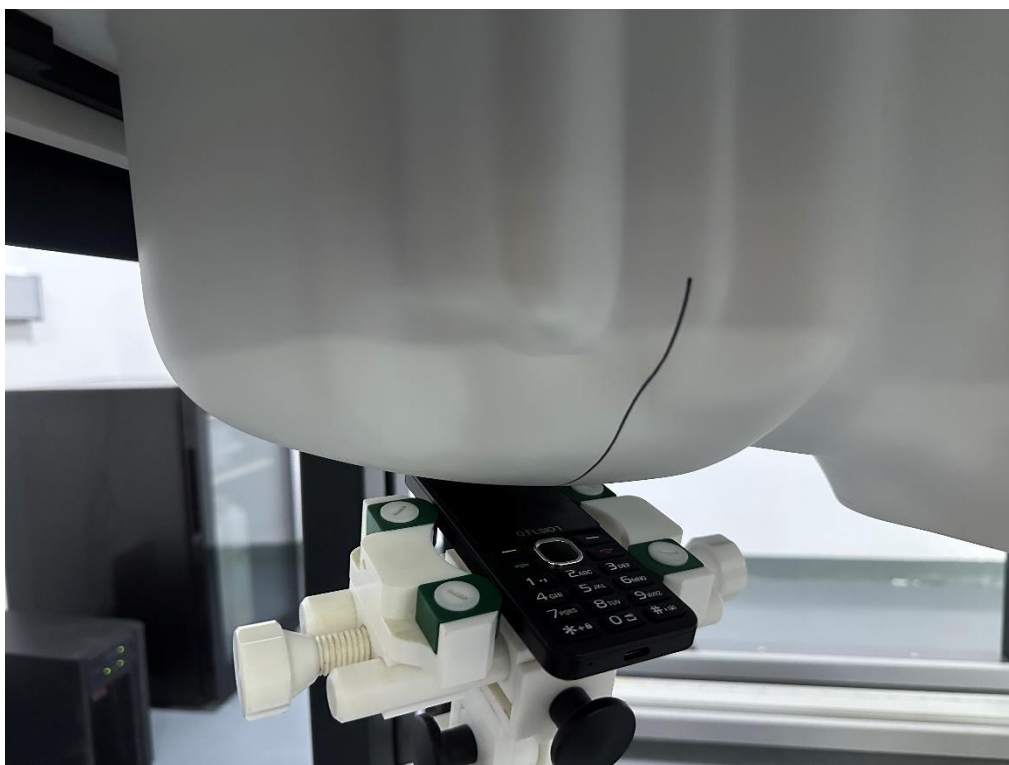


11.2 Setup Photos

Right Touch

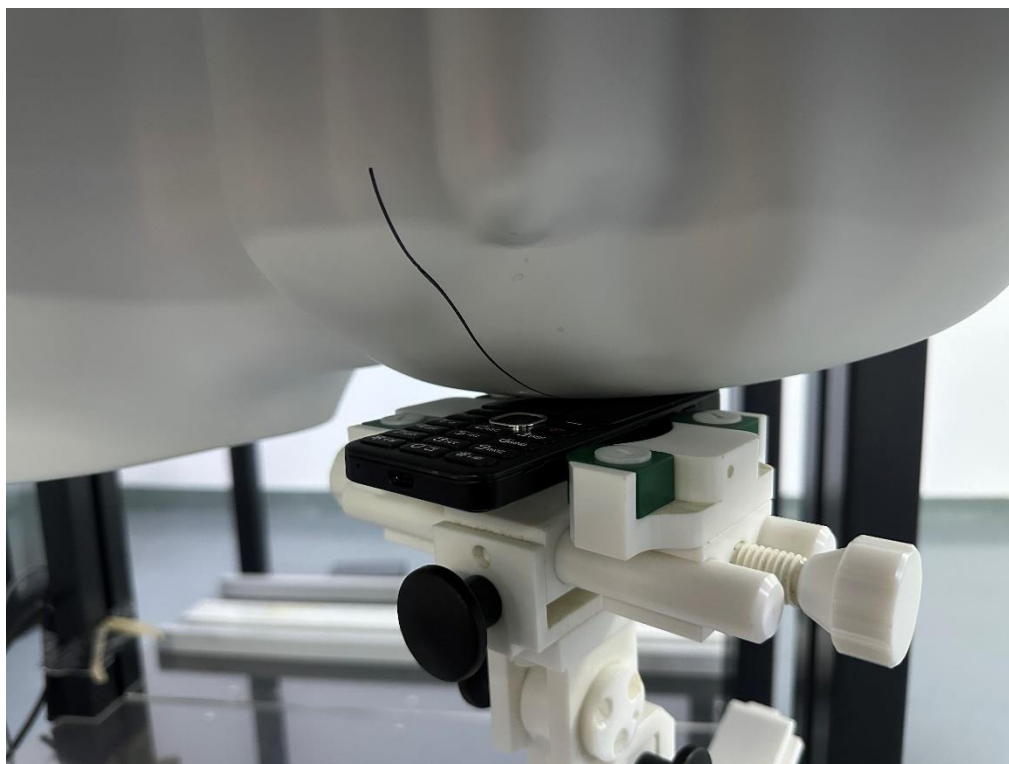


Right Tilt

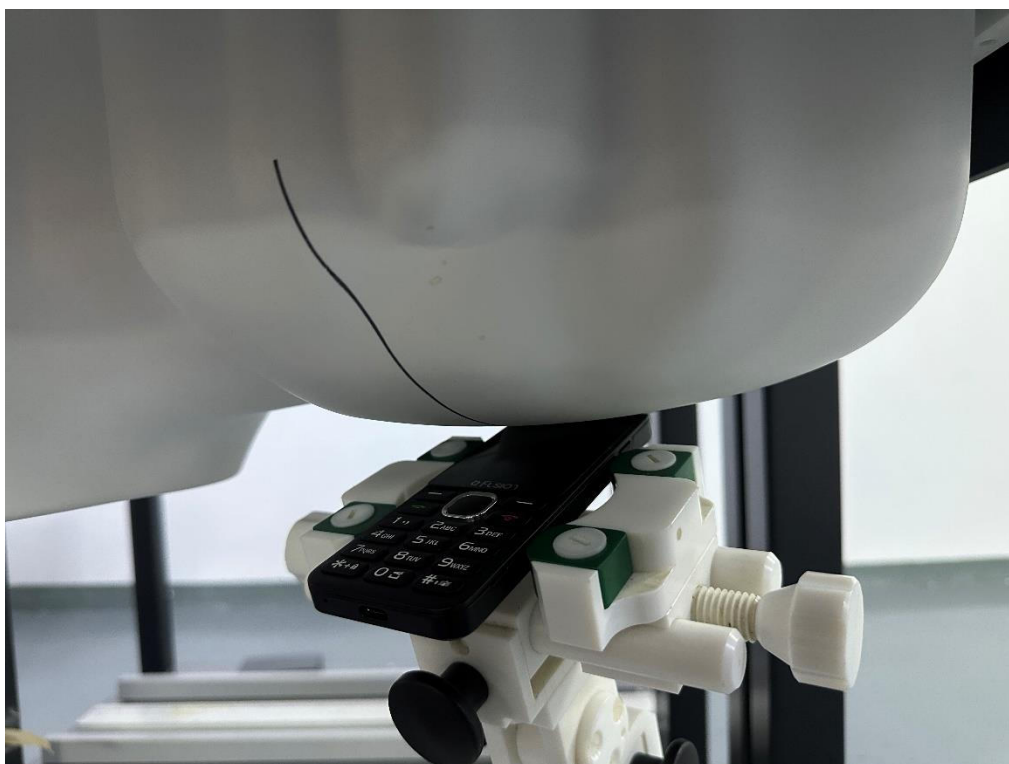




Left Touch



Left Tilt

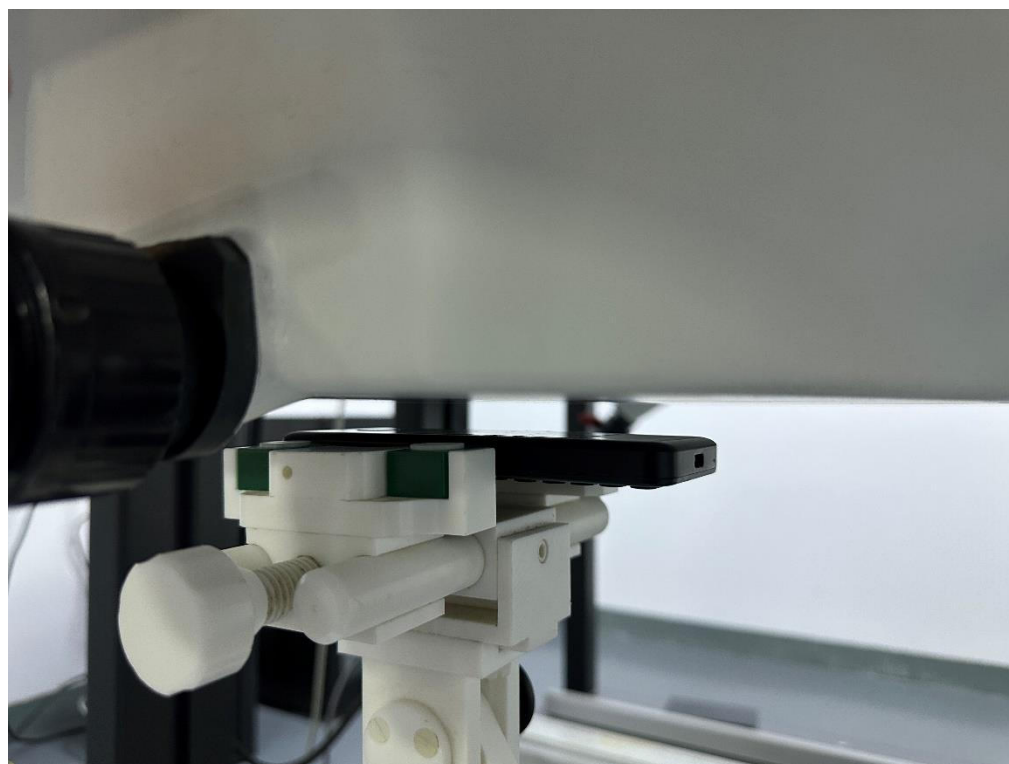




Body Front side (separation distance is 10mm)



Body Back side (separation distance 10mm)





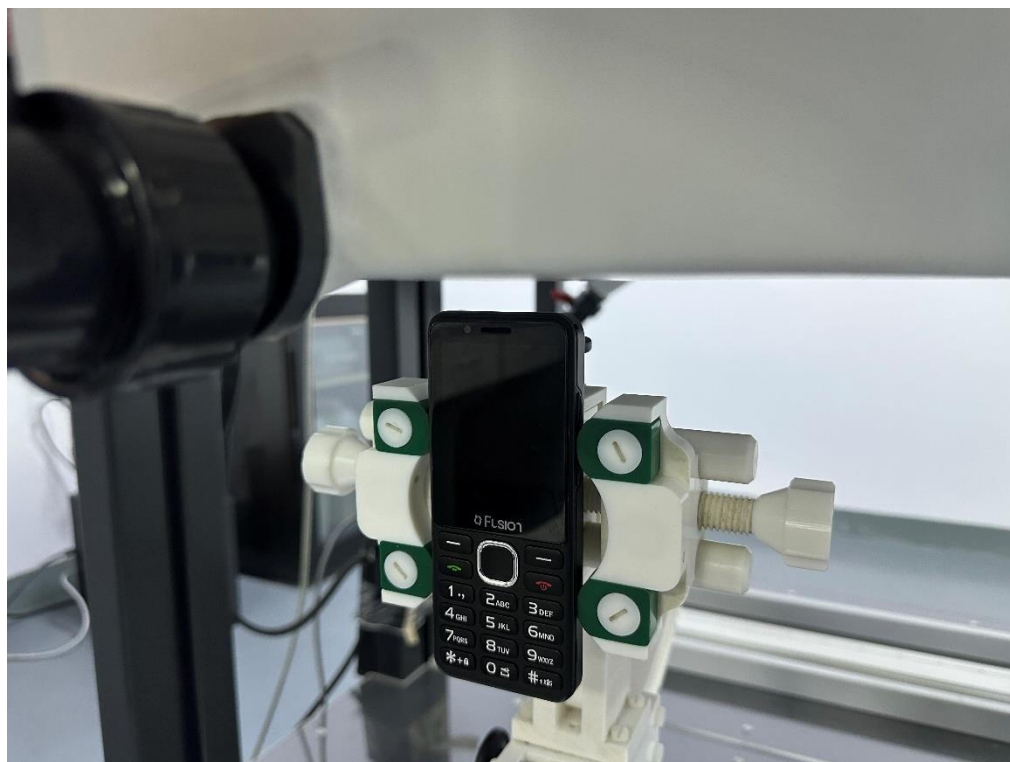
Body Left side (separation distance is 10mm)



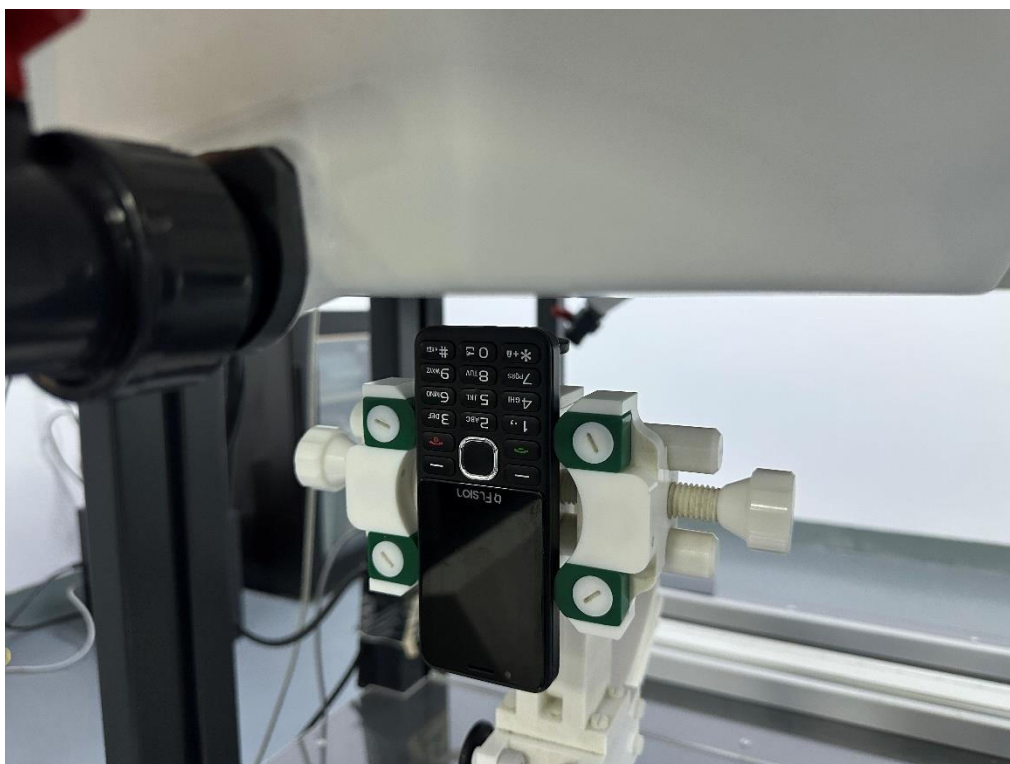
Body Right side (separation distance is 10mm)



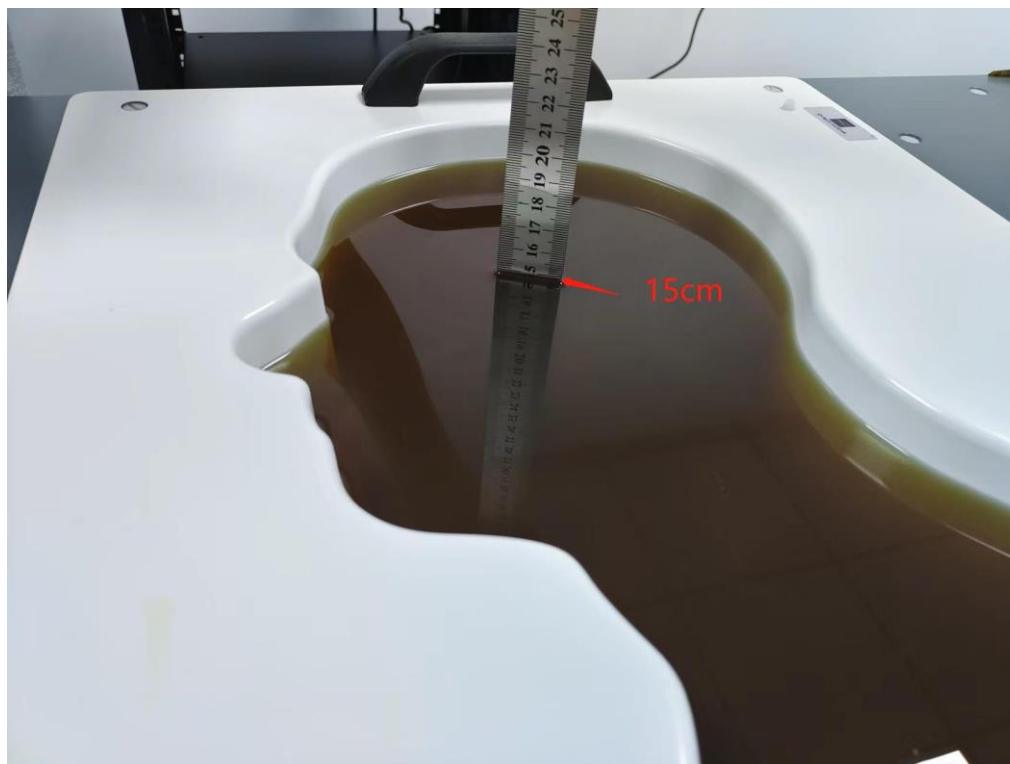
Body Top side (separation distance is 10mm)



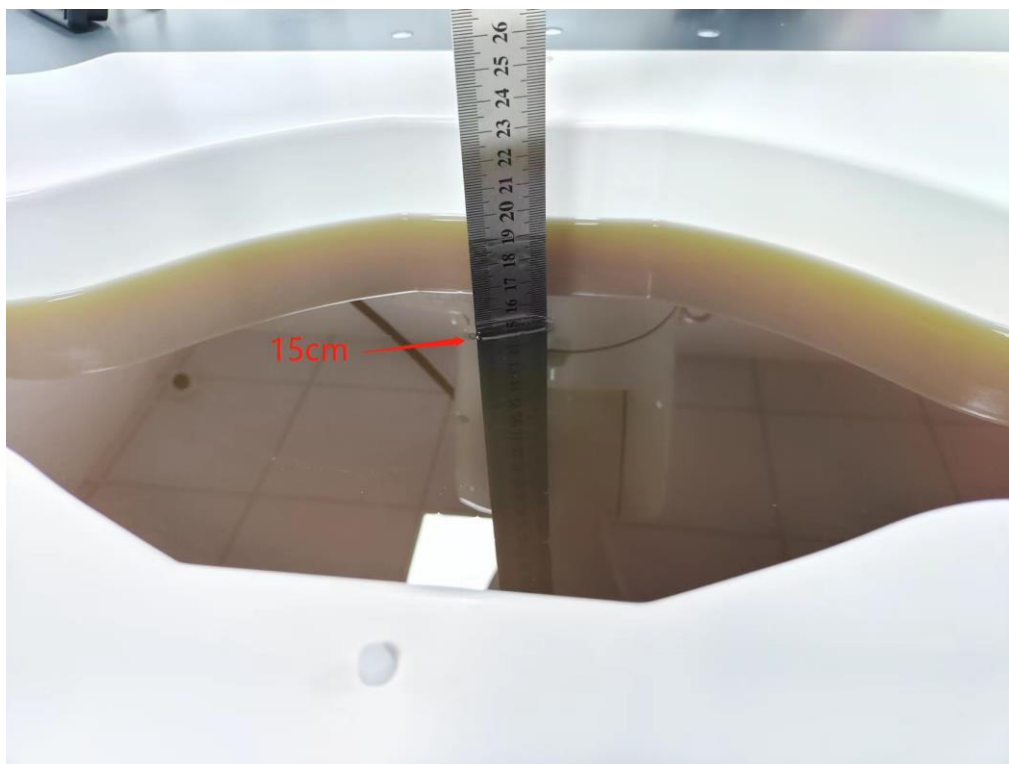
Body Bottom side (separation distance is 10mm)



Liquid depth (15 cm)



Liquid depth (15 cm)





12. SAR Result Summary

12.1 Head SAR

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.
2.4G WLAN	802.11b	Right Cheek	2462	0.478	0.50	17.70	17.57	1.030	0.493	/
		Right Tilt	2462	0.243	2.53	17.70	17.57	1.030	0.250	/
		Left Cheek	2412	0.831	1.06	17.70	17.19	1.125	0.935	/
		Left Cheek	2437	0.857	-3.44	17.70	17.26	1.107	0.948	/
		Left Cheek	2462	0.922	1.78	17.70	17.57	1.030	0.950	1
		Left Tilt	2462	0.467	-2.09	17.70	17.57	1.030	0.481	/
5.2G WLAN	802.11a	Right Cheek	5240	0.312	0.88	13.20	13.02	1.042	0.325	/
		Right Tilt	5240	0.171	-3.44	13.20	13.02	1.042	0.178	/
		Left Cheek	5240	0.668	1.05	13.20	13.02	1.042	0.696	3
		Left Tilt	5240	0.35	3.54	13.20	13.02	1.042	0.365	/
5.3G WLAN	802.11a	Right Cheek	5300	0.202	-0.55	13.00	12.84	1.038	0.210	/
		Right Tilt	5300	0.103	-1.49	13.00	12.84	1.038	0.107	/
		Left Cheek	5300	0.435	1.76	13.00	12.84	1.038	0.451	5
		Left Tilt	5300	0.228	-1.39	13.00	12.84	1.038	0.237	/
5.6G WLAN	802.11a	Right Cheek	5500	0.124	2.01	12.50	12.48	1.005	0.125	/
		Right Tilt	5500	0.067	-0.57	12.50	12.48	1.005	0.067	/
		Left Cheek	5500	0.210	-3.21	12.50	12.48	1.005	0.211	7
		Left Tilt	5500	0.117	0.19	12.50	12.48	1.005	0.118	/



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	Right Cheek	1860	0.262	-1.06	18.50	18.26	1.057	0.277	9
			50	0	Right Cheek	1860	0.212	-1.76	18.00	17.80	1.047	0.222	/
			1	0	Right Tilt	1860	0.208	-3.36	18.50	18.26	1.057	0.220	/
			50	0	Right Tilt	1860	0.161	0.33	18.00	17.80	1.047	0.169	/
			1	0	Left Cheek	1860	0.231	-1.34	18.50	18.26	1.057	0.244	/
			50	0	Left Cheek	1860	0.184	-2.26	18.00	17.80	1.047	0.193	/
			1	0	Left Tilt	1860	0.127	-3.95	18.50	18.26	1.057	0.134	/
			50	0	Left Tilt	1860	0.095	3.31	18.00	17.80	1.047	0.099	/
LTE Band 4	20M	QPSK	1	0	Right Cheek	1732.5	0.338	2.42	19.20	18.93	1.064	0.360	11
			50	0	Right Cheek	1732.5	0.283	-0.73	18.50	18.32	1.042	0.295	/
			1	0	Right Tilt	1732.5	0.271	-3.43	19.20	18.93	1.064	0.288	/
			50	0	Right Tilt	1732.5	0.217	2.93	18.50	18.32	1.042	0.226	/
			1	0	Left Cheek	1732.5	0.246	2.47	19.20	18.93	1.064	0.262	/
			50	0	Left Cheek	1732.5	0.208	3.12	18.50	18.32	1.042	0.217	/
			1	0	Left Tilt	1732.5	0.141	3.46	19.20	18.93	1.064	0.150	/
			50	0	Left Tilt	1732.5	0.109	3.36	18.50	18.32	1.042	0.114	/
LTE Band 5	10M	QPSK	1	0	Right Cheek	836.5	0.231	-3.04	15.70	15.58	1.028	0.237	13
			25	0	Right Cheek	844	0.183	-2.57	15.50	15.20	1.072	0.196	/
			1	0	Right Tilt	836.5	0.176	-2.18	15.70	15.58	1.028	0.181	/
			25	0	Right Tilt	844	0.146	-2.27	15.50	15.20	1.072	0.156	/
			1	0	Left Cheek	836.5	0.116	3.35	15.70	15.58	1.028	0.119	/
			25	0	Left Cheek	844	0.091	2.56	15.50	15.20	1.072	0.098	/
			1	0	Left Tilt	836.5	0.069	0.37	15.70	15.58	1.028	0.071	/
			25	0	Left Tilt	844	0.058	1.07	15.50	15.20	1.072	0.062	/
LTE Band 7	20M	QPSK	1	0	Right Cheek	2510	0.137	-0.14	15.30	15.13	1.040	0.142	15
			50	0	Right Cheek	2510	0.115	-1.88	15.00	14.72	1.067	0.123	/
			1	0	Right Tilt	2510	0.106	0.20	15.30	15.13	1.040	0.110	/
			50	0	Right Tilt	2510	0.093	-1.03	15.00	14.72	1.067	0.099	/
			1	0	Left Cheek	2510	0.084	-2.08	15.30	15.13	1.040	0.087	/
			50	0	Left Cheek	2510	0.063	-1.10	15.00	14.72	1.067	0.067	/
			1	0	Left Tilt	2510	0.05	1.02	15.30	15.13	1.040	0.052	/
			50	0	Left Tilt	2510	0.048	-3.29	15.00	14.72	1.067	0.051	/



LTE Band 12	10M	QPSK	1	0	Right Cheek	711	0.187	-1.14	17.50	17.26	1.057	0.198	17
			25	0	Right Cheek	711	0.148	-1.35	17.00	16.77	1.054	0.156	/
			1	0	Right Tilt	711	0.153	1.54	17.50	17.26	1.057	0.162	/
			25	0	Right Tilt	711	0.115	-0.40	17.00	16.77	1.054	0.121	/
			1	0	Left Cheek	711	0.071	-3.70	17.50	17.26	1.057	0.075	/
			25	0	Left Cheek	711	0.051	2.64	17.00	16.77	1.054	0.054	/
			1	0	Left Tilt	711	0.042	1.14	17.50	17.26	1.057	0.044	/
			25	0	Left Tilt	711	0.035	-3.05	17.00	16.77	1.054	0.037	/
LTE Band 13	10M	QPSK	1	0	Right Cheek	782	0.361	-3.90	17.00	16.91	1.021	0.369	19
			25	0	Right Cheek	782	0.286	2.15	16.30	16.12	1.042	0.298	/
			1	0	Right Tilt	782	0.276	0.49	17.00	16.91	1.021	0.282	/
			25	0	Right Tilt	782	0.236	-3.79	16.30	16.12	1.042	0.246	/
			1	0	Left Cheek	782	0.196	-0.15	17.00	16.91	1.021	0.200	/
			25	0	Left Cheek	782	0.139	-0.07	16.30	16.12	1.042	0.145	/
			1	0	Left Tilt	782	0.11	-2.97	17.00	16.91	1.021	0.112	/
			25	0	Left Tilt	782	0.078	-1.67	16.30	16.12	1.042	0.081	/
LTE Band 17	10M	QPSK	1	0	Right Cheek	710	0.185	-2.94	17.30	17.09	1.050	0.194	21
			25	0	Right Cheek	711	0.137	-1.72	15.50	15.27	1.054	0.144	/
			1	0	Right Tilt	710	0.147	-3.48	17.30	17.09	1.050	0.154	/
			25	0	Right Tilt	711	0.128	1.65	15.50	15.27	1.054	0.135	/
			1	0	Left Cheek	710	0.086	3.75	17.30	17.09	1.050	0.090	/
			25	0	Left Cheek	711	0.073	1.14	15.50	15.27	1.054	0.077	/
			1	0	Left Tilt	710	0.048	3.06	17.30	17.09	1.050	0.050	/
			25	0	Left Tilt	711	0.048	-2.97	15.50	15.27	1.054	0.051	/
LTE Band 66	20M	QPSK	1	0	Right Cheek	1745	0.131	-1.14	17.20	16.93	1.064	0.139	23
			50	0	Right Cheek	1770	0.096	-0.62	16.30	16.07	1.054	0.101	/
			1	0	Right Tilt	1745	0.117	-3.31	17.20	16.93	1.064	0.125	/
			50	0	Right Tilt	1770	0.07	-1.91	16.30	16.07	1.054	0.074	/
			1	0	Left Cheek	1745	0.078	2.14	17.20	16.93	1.064	0.083	/
			50	0	Left Cheek	1770	0.057	2.02	16.30	16.07	1.054	0.060	/
			1	0	Left Tilt	1745	0.053	2.60	17.20	16.93	1.064	0.056	/
			50	0	Left Tilt	1770	0.04	-3.59	16.30	16.07	1.054	0.042	/



LTE Band 71	20M	QPSK	1	0	Right Cheek	683	0.090	-3.76	16.50	16.40	1.023	0.092	25
			50	0	Right Cheek	683	0.072	-1.06	14.50	14.26	1.057	0.076	/
			1	0	Right Tilt	683	0.082	0.23	16.50	16.40	1.023	0.084	/
			50	0	Right Tilt	683	0.046	-3.86	14.50	14.26	1.057	0.049	/
			1	0	Left Cheek	683	0.045	-1.51	16.50	16.40	1.023	0.046	/
			50	0	Left Cheek	683	0.019	-0.17	14.50	14.26	1.057	0.020	/
			1	0	Left Tilt	683	0.036	-2.74	16.50	16.40	1.023	0.037	/
			50	0	Left Tilt	683	0.022	0.35	14.50	14.26	1.057	0.023	/

Note:

1. 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

2. Per KDB 865664 D01, Repeated measurement is not required when the original highest measured SAR is <0.80 W/kg.



12.2 Body-worn and Hotspot SAR

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	802.11b	Front Side	2462	0.169	0.16	17.70	17.57	1.030	0.174	/
		Back Side	2462	0.281	2.86	17.70	17.57	1.030	0.290	2
		Right Side	2462	0.116	-0.60	17.70	17.57	1.030	0.120	/
		Top Side	2462	0.191	0.39	17.70	17.57	1.030	0.197	/
5.2GHz WLAN	802.11a	Front Side	5240	0.121	3.29	13.20	13.02	1.042	0.126	/
		Back Side	5240	0.205	1.38	13.20	13.02	1.042	0.214	4
		Right Side	5240	0.084	1.58	13.20	13.02	1.042	0.088	/
		Top Side	5240	0.058	-3.71	13.20	13.02	1.042	0.060	/
5.3GHz WLAN	802.11a	Front Side	5300	0.072	-0.68	13.00	12.84	1.038	0.075	/
		Back Side	5300	0.122	2.47	13.00	12.84	1.038	0.127	6
		Right Side	5300	0.05	2.06	13.00	12.84	1.038	0.052	/
		Top Side	5300	0.035	3.22	13.00	12.84	1.038	0.036	/
5.6GHz WLAN	802.11a	Front Side	5500	0.03	-1.86	12.50	12.48	1.005	0.030	/
		Back Side	5500	0.047	1.40	12.50	12.48	1.005	0.047	8
		Right Side	5500	0.023	-1.81	12.50	12.48	1.005	0.023	/
		Top Side	5500	0.014	2.60	12.50	12.48	1.005	0.014	/



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	0.159	0.12	18.50	18.26	1.057	0.168	/
			50	0	Front side	1860	0.14	0.19	18.00	17.80	1.047	0.147	/
			1	0	Back Side	1860	0.234	-0.39	18.50	18.26	1.057	0.247	10
			50	0	Back Side	1860	0.203	1.56	18.00	17.80	1.047	0.213	/
			1	0	Right Side	1860	0.052	1.87	18.50	18.26	1.057	0.055	/
			50	0	Right Side	1860	0.044	2.28	18.00	17.80	1.047	0.046	/
			1	0	Bottom Side	1860	0.084	-1.28	18.50	18.26	1.057	0.089	/
			50	0	Bottom Side	1860	0.073	0.55	18.00	17.80	1.047	0.076	/
LTE Band 4	20M	QPSK	1	0	Front side	1732.5	0.155	-3.14	19.20	18.93	1.064	0.165	/
			50	0	Front side	1732.5	0.134	2.99	18.50	18.32	1.042	0.140	/
			1	0	Back Side	1732.5	0.239	3.81	19.20	18.93	1.064	0.254	12
			50	0	Back Side	1732.5	0.211	2.15	18.50	18.32	1.042	0.220	/
			1	0	Left Side	1732.5	0.12	2.99	19.20	18.93	1.064	0.128	/
			50	0	Left Side	1732.5	0.105	0.99	18.50	18.32	1.042	0.109	/
			1	0	Right Side	1732.5	0.048	3.53	19.20	18.93	1.064	0.051	/
			50	0	Right Side	1732.5	0.042	1.32	18.50	18.32	1.042	0.044	/
			1	0	Bottom Side	1732.5	0.019	3.20	19.20	18.93	1.064	0.020	/
			50	0	Bottom Side	1732.5	0.017	0.21	18.50	18.32	1.042	0.018	/
LTE Band 5	10M	QPSK	1	0	Front side	836.5	0.230	0.79	15.70	15.58	1.028	0.236	14
			25	0	Front side	844	0.2	-3.00	15.50	15.20	1.072	0.214	/
			1	0	Back Side	836.5	0.214	-2.62	15.70	15.58	1.028	0.220	/
			25	0	Back Side	844	0.187	3.31	15.50	15.20	1.072	0.200	/
			1	0	Right Side	836.5	0.046	3.42	15.70	15.58	1.028	0.047	/
			25	0	Right Side	844	0.04	2.10	15.50	15.20	1.072	0.043	/
			1	0	Bottom Side	836.5	0.018	-3.98	15.70	15.58	1.028	0.019	/
			25	0	Bottom Side	844	0.015	-1.02	15.50	15.20	1.072	0.016	/



LTE Band 7	20M	QPSK	1	0	Front side	2510	0.163	-1.32	15.30	15.13	1.040	0.170	/
			50	0	Front side	2510	0.141	0.80	15.00	14.72	1.067	0.150	/
			1	0	Back Side	2510	0.249	-3.12	15.30	15.13	1.040	0.259	16
			50	0	Back Side	2510	0.219	-0.07	15.00	14.72	1.067	0.234	/
			1	0	Right Side	2510	0.049	3.34	15.30	15.13	1.040	0.051	/
			50	0	Right Side	2510	0.047	2.64	15.00	14.72	1.067	0.050	/
			1	0	Bottom Side	2510	0.021	-3.77	15.30	15.13	1.040	0.022	/
			50	0	Bottom Side	2510	0.018	-0.03	15.00	14.72	1.067	0.019	/
LTE Band 12	10M	QPSK	1	0	Front side	711	0.297	-2.03	17.50	17.26	1.057	0.314	/
			25	0	Front side	711	0.259	-0.93	17.00	16.77	1.054	0.273	/
			1	0	Back Side	711	0.463	0.22	17.50	17.26	1.057	0.489	18
			25	0	Back Side	711	0.403	-1.90	17.00	16.77	1.054	0.425	/
			1	0	Right Side	711	0.096	2.84	17.50	17.26	1.057	0.101	/
			25	0	Right Side	711	0.084	0.93	17.00	16.77	1.054	0.089	/
			1	0	Bottom Side	711	0.033	-0.93	17.50	17.26	1.057	0.035	/
			25	0	Bottom Side	711	0.028	-2.44	17.00	16.77	1.054	0.030	/
LTE Band 13	10M	QPSK	1	0	Front side	782	0.505	-3.73	17.00	16.91	1.021	0.516	/
			25	0	Front side	782	0.439	0.38	16.30	16.12	1.042	0.458	/
			1	0	Back Side	782	0.790	-1.16	17.00	16.91	1.021	0.807	20
			25	0	Back Side	782	0.691	3.63	16.30	16.12	1.042	0.720	/
			1	0	Right Side	782	0.16	3.13	17.00	16.91	1.021	0.163	/
			25	0	Right Side	782	0.14	-2.33	16.30	16.12	1.042	0.146	/
			1	0	Bottom Side	782	0.055	2.45	17.00	16.91	1.021	0.056	/
			25	0	Bottom Side	782	0.051	-1.54	16.30	16.12	1.042	0.053	/
LTE Band 17	10M	QPSK	1	0	Front side	710	0.186	-3.64	17.30	17.09	1.050	0.195	/
			25	0	Front side	711	0.164	0.19	15.50	15.27	1.054	0.173	/
			1	0	Back Side	710	0.286	2.02	17.30	17.09	1.050	0.300	22
			25	0	Back Side	711	0.251	-1.73	15.50	15.27	1.054	0.265	/
			1	0	Right Side	710	0.058	-1.66	17.30	17.09	1.050	0.061	/
			25	0	Right Side	711	0.054	2.63	15.50	15.27	1.054	0.057	/
			1	0	Bottom Side	710	0.02	-0.13	17.30	17.09	1.050	0.021	/
			25	0	Bottom Side	711	0.019	3.79	15.50	15.27	1.054	0.020	/



LTE Band 66	20M	QPSK	1	0	Front side	1745	0.095	-0.91	17.20	16.93	1.064	0.101	/
			50	0	Front side	1770	0.082	-0.22	16.30	16.07	1.054	0.086	/
			1	0	Back Side	1745	0.142	2.47	17.20	16.93	1.064	0.151	24
			50	0	Back Side	1770	0.126	2.20	16.30	16.07	1.054	0.133	/
			1	0	Right Side	1745	0.03	-2.17	17.20	16.93	1.064	0.032	/
			50	0	Right Side	1770	0.03	-3.26	16.30	16.07	1.054	0.032	/
			1	0	Bottom Side	1745	0.013	1.01	17.20	16.93	1.064	0.014	/
			50	0	Bottom Side	1770	0.013	0.81	16.30	16.07	1.054	0.014	/
LTE Band 71	20M	QPSK	1	0	Front side	683	0.162	-0.48	16.50	16.40	1.023	0.166	/
			50	0	Front side	683	0.142	-0.69	14.50	14.26	1.057	0.150	/
			1	0	Back Side	683	0.256	-3.26	16.50	16.40	1.023	0.262	26
			50	0	Back Side	683	0.222	-0.84	14.50	14.26	1.057	0.235	/
			1	0	Right Side	683	0.053	1.30	16.50	16.40	1.023	0.054	/
			50	0	Right Side	683	0.046	-0.12	14.50	14.26	1.057	0.049	/
			1	0	Bottom Side	683	0.02	1.54	16.50	16.40	1.023	0.020	/
			50	0	Bottom Side	683	0.02	3.03	14.50	14.26	1.057	0.021	/

Note:

- The test separation of all above table is 10mm.
- Per KDB 447498 D01, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - Scaled SAR(W/kg) = Measured SAR(W/kg) *Tune-up Scaling Factor
- When the user enables the personal Wireless router functions for the handsets, actual operations include simultaneous transmission of both the Wi-Fi transmitting frequency and thus cannot be evaluated for SAR under actual use conditions. The "Portable Hotspot" feature on the handset was NOT activated, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal.



12.3 Repeated SAR

Band	Mode	Test Position	Ch.	Result 1g (W/Kg)	Power Drift (%)	Max. Turn-up Power (dBm)	Meas. Output Power(dBm)	Scaling Factor	Scaled SAR(W/Kg)	Meas. No.
2.4G WLAN	802.11b	Left Cheek	2412	0.831	-0.14	17.70	17.19	1.125	0.935	-
		Left Cheek	2437	0.857	2.73	17.70	17.26	1.107	0.948	-
		Left Cheek	2462	0.922	3.72	17.70	17.57	1.030	0.950	-

12.4 Repeated SAR measurement

Band	Mode	Test Position	Ch.	Original Measured SAR 1g(W/kg)	1 st Repeated SAR 1g	Ratio	Original Measured SAR 1g(W/kg)	2nd Repeated SAR 1g	Ratio
2.4G WLAN	802.11b	Left Cheek	2412	0.831	0.793	1.048	-	-	-
		Left Cheek	2437	0.857	0.824	1.040	-	-	-
		Left Cheek	2462	0.922	0.881	1.046	-	-	-

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.



12.5 Simultaneous Multi-band Transmission Evaluation

Application Simultaneous Transmission information:

Position	Simultaneous State
Head	1. LTE + 2.4GHz WLAN/5G WLAN
	2. LTE + Bluetooth
Body	1. LTE + 2.4GHz WLAN/5G WLAN
	2. LTE + Bluetooth

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) $(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm}) \cdot [\sqrt{f} \text{ (GHz)} / x] \text{ W/kg}$ for test separation distances $\leq 50 \text{ mm}$;
Where $x = 7.5$ for 1-g SAR, and $x = 18.75$ for 10-g SAR.
 - b) 0.4 W/Kg for 1-g SAR and 1.0 W/Kg for 10-g SAR, when the separation distance is $> 50 \text{ mm}$.



Estimated SAR		Maximum Turn-up Power		Antenna to user(mm)	Frequency(GHz)	Stand Alone SAR(1g) [W/kg]
		dBm	mW			
BT	Head	7.5	5.623	5	2.48	0.236
	Body			5	2.48	0.236



Simultaneous Mode	Position	Mode	Max. 1-g SAR	1-g Sum SAR
			(W/kg)	(W/kg)
LTE + 2.4G WLAN	Head	LTE	0.369	1.319
		2.4G WLAN	0.950	
	Body	LTE	0.807	1.097
		2.4G WLAN	0.290	
LTE + Bluetooth	Head	LTE	0.369	0.605
		BT	0.236	
	Body	LTE	0.807	1.043
		BT	0.236	
LTE + 5G WLAN	Head	LTE	0.369	1.065
		5G WLAN	0.696	
	Body	LTE	0.807	1.021
		5G WLAN	0.214	

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	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
2450MHz Dipole	MVG	DIP2G450	SN 06/22 DIP2G450-645	2025.05.20	2028.05.19
2600MHz Dipole	MVG	DIP2G600	SN 06/22 DIP2G600-646	2025.05.20	2028.05.19
5000MHz Dipole	MVG	DIP5G000	SN 06/22 DIP5G000-653	2025.05.22	2028.05.21
6500-7000 MHz DIPOLE	MVG	SID7000	2225- DIP7G000-809	2025.05.28	2028.05.27
E-Field Probe	MVG	SSE2	2225-EPGO-450	2025.06.06	2026.06.05
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	SHWDPCP	202203280013	N/A	N/A
Network Analyzer	ZVL	R&S	116184	2025.03.05	2026.03.04
Multi Meter	DMM6500	Keithley	4527252	2025.03.06	2026.03.05
Signal Generator	Keysight	N5182B	MY59100717	2025.03.05	2026.03.04
Wireless Communication Test Set	R&S	CMW500	137737	2025.03.05	2026.03.04
Power Sensor	R&S	Z11	116184	2025.03.05	2026.03.04
Electronic Temperature hygrometer	N/A	ST-W2318	N/A	2025.03.05	2026.03.04
Temperature hygrometer	N/A	TP101	N/A	2025.03.05	2026.03.04



Appendix A. System Validation Plots

System Performance Check Data (750MHz)

Type: Phone measurement (Complete)

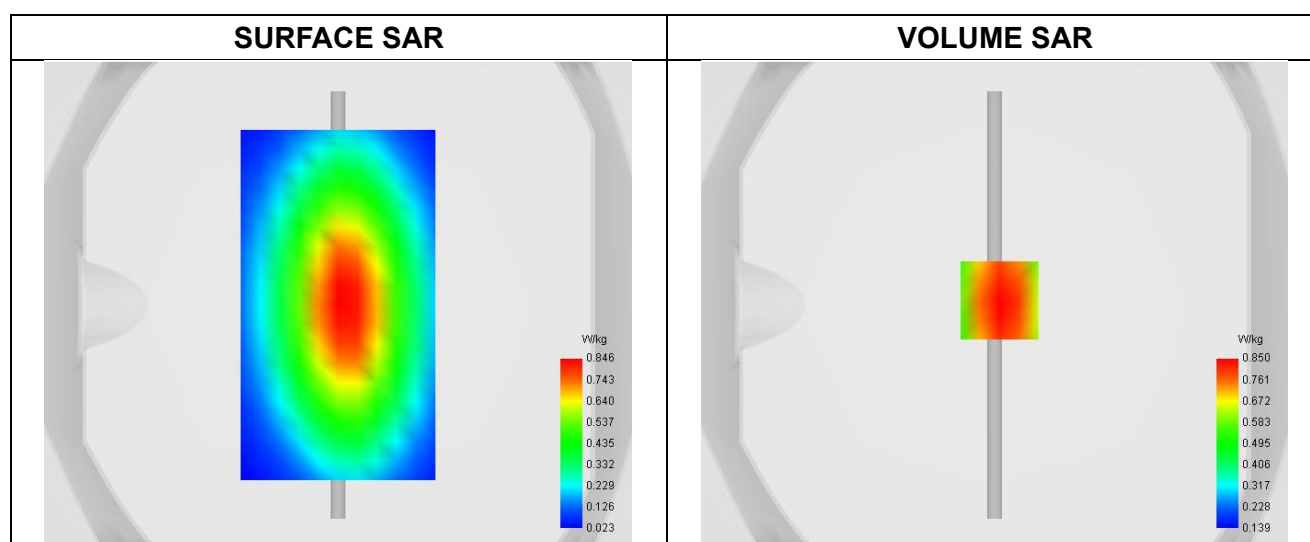
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2026-01-10

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW750
Channels	Middle
Signal	CW
Frequency (MHz)	750.000
Relative permittivity	42.33
Conductivity (S/m)	0.86
Probe	2225-EPGO-450
ConvF	1.08
Crest factor:	1:1

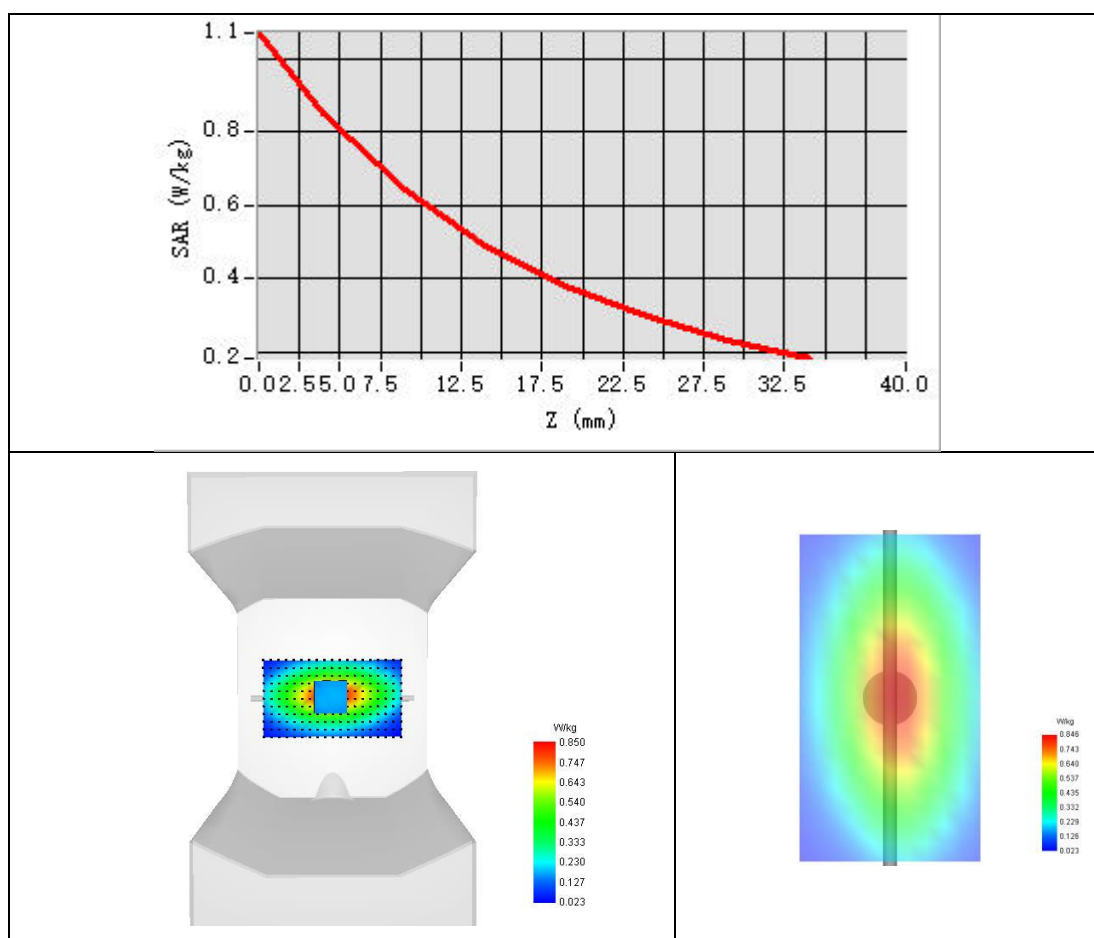


Maximum location: X=2.00, Y=2.00 ; SAR Peak: 1.07 W/kg

SAR 10g (W/Kg)	0.545
SAR 1g (W/Kg)	0.829



Z Axis Scan





System Performance Check Data (750MHz)

Type: Phone measurement (Complete)

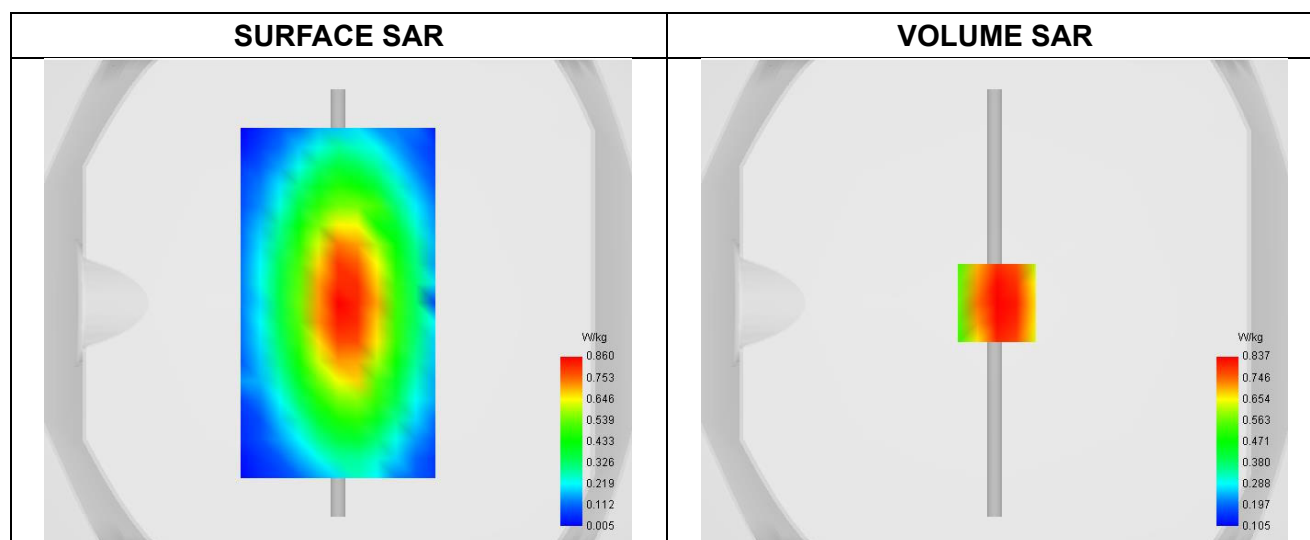
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2025-01-09

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW750
Channels	Middle
Signal	CW
Frequency (MHz)	750.000
Relative permittivity	42.03
Conductivity (S/m)	0.93
Probe	2225-EPGO-450
ConvF	1.08
Crest factor:	1:1

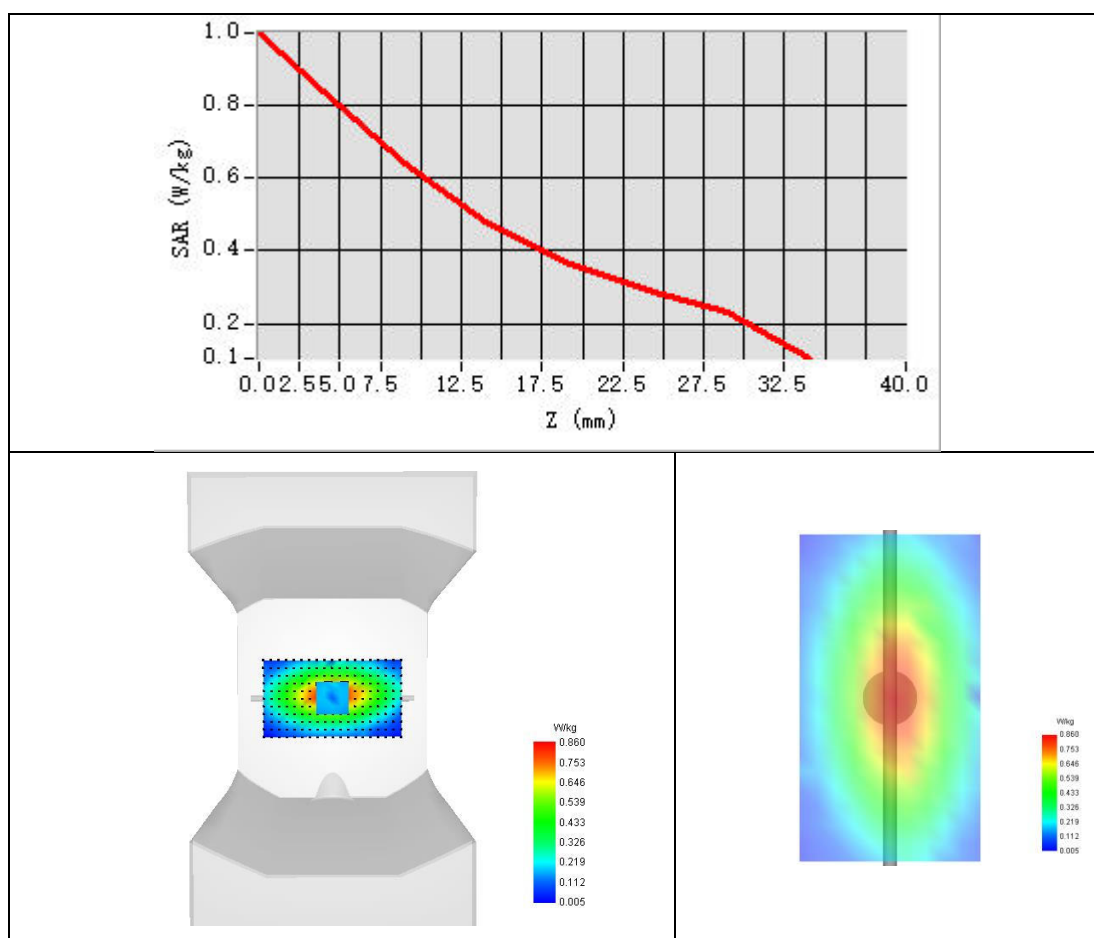


Maximum location: X=1.00, Y=0.00 ; SAR Peak: 1.10 W/kg

SAR 10g (W/Kg)	0.570
SAR 1g (W/Kg)	0.838



Z Axis Scan





System Performance Check Data (835MHz)

Type: Phone measurement (Complete)

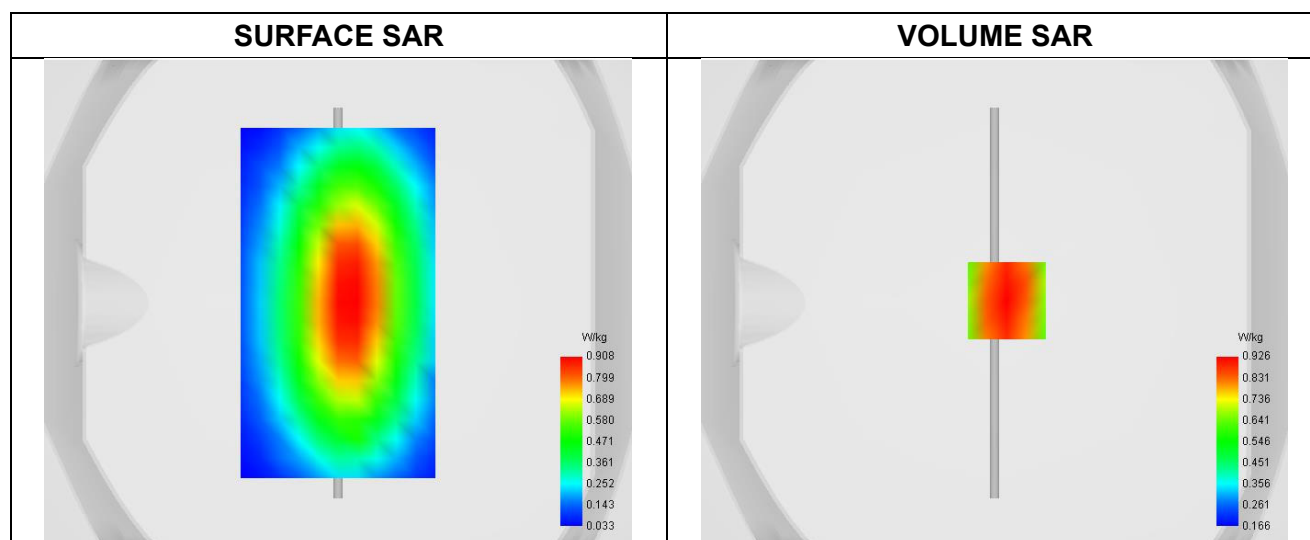
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2026-01-09

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW835
Channels	Middle
Signal	CW
Frequency (MHz)	835.000
Relative permittivity	42.47
Conductivity (S/m)	0.92
Probe	2225-EPGO-450
ConvF	1.02
Crest factor:	1:1

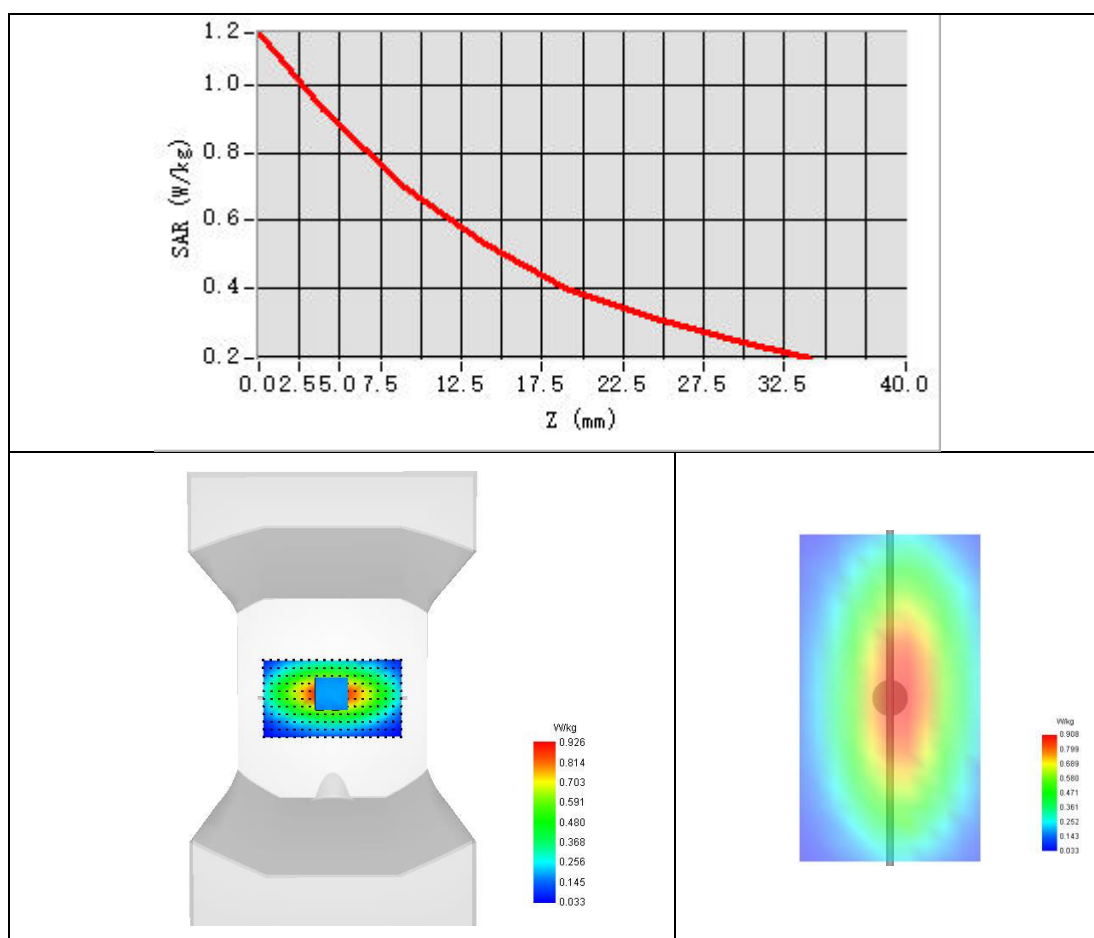


Maximum location: X=5.00, Y=5.00 ; SAR Peak: 1.15 W/kg

SAR 10g (W/Kg)	0.602
SAR 1g (W/Kg)	0.941



Z Axis Scan





System Performance Check Data (1800MHz)

Type: Phone measurement (Complete)

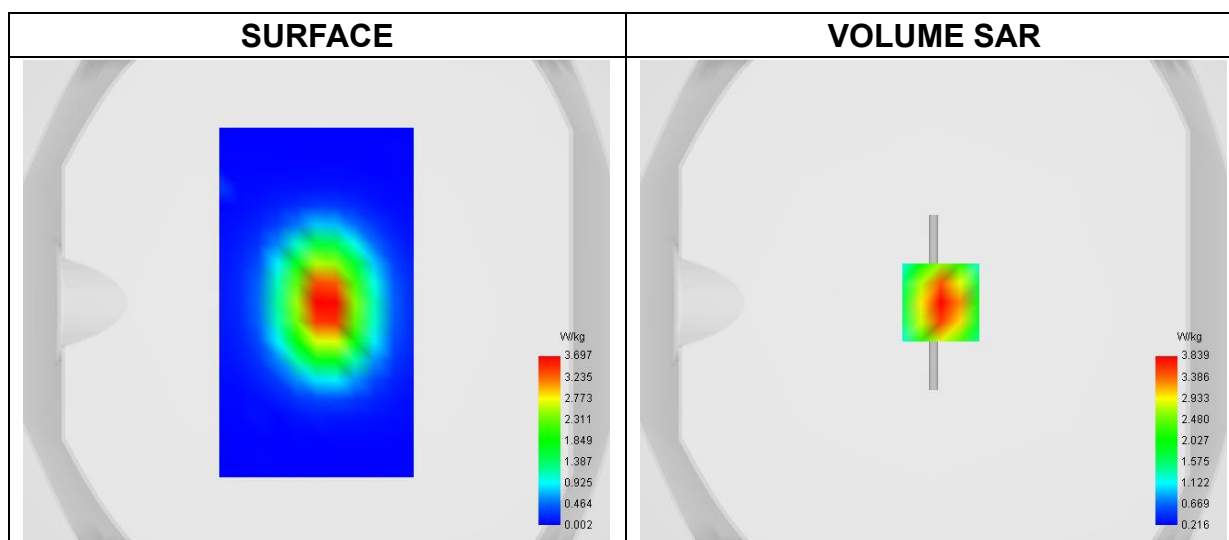
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement:2026-01-13

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW1800
Channels	Middle
Signal	CW
Frequency (MHz)	1800.000
Relative permittivity	41.04
Conductivity (S/m)	1.35
Probe	2225-EPGO-450
ConvF	1.21
Crest factor:	1:1

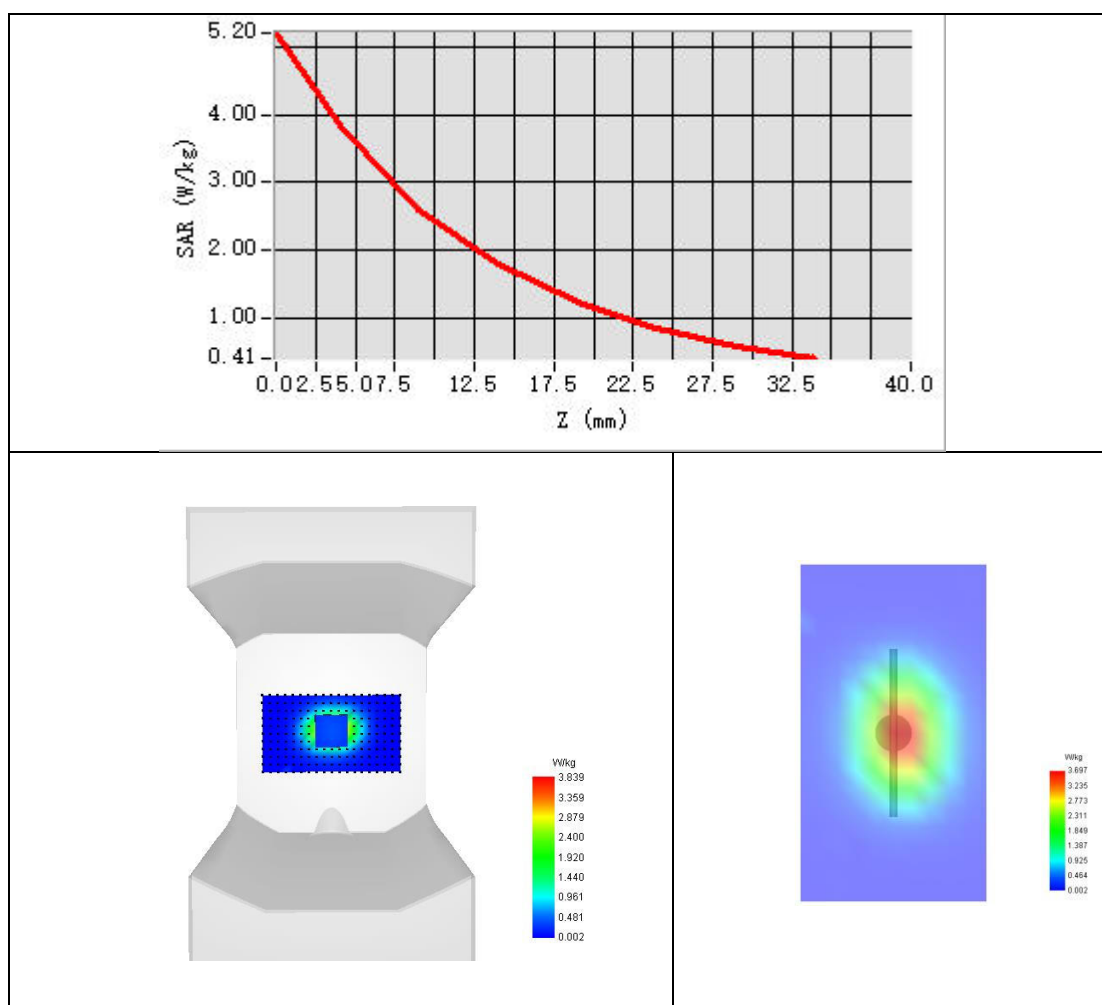


Maximum location: X=3.00, Y=0.00 ; SAR Peak: 5.20 W/kg

SAR 10g (W/Kg)	1.887
SAR 1g (W/Kg)	3.683



Z Axis Scan





System Performance Check Data (1900MHz)

Type: Phone measurement (Complete)

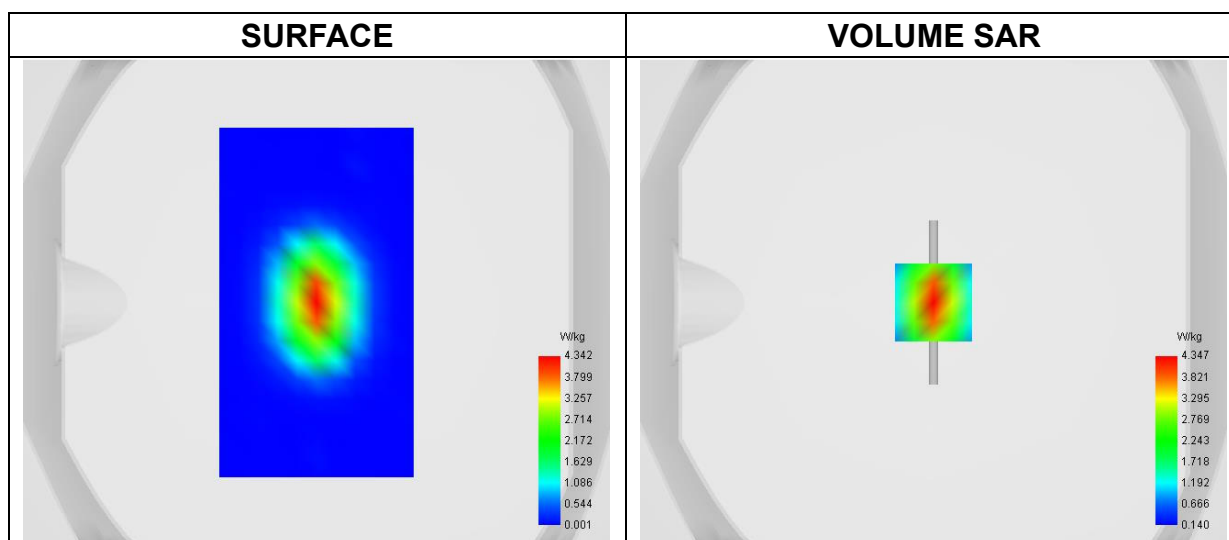
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement:2026-01-14

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW1900
Channels	Middle
Signal	CW
Frequency (MHz)	1900.000
Relative permittivity	40.06
Conductivity (S/m)	1.45
Probe	2225-EPGO-450
ConvF	1.34
Crest factor:	1:1

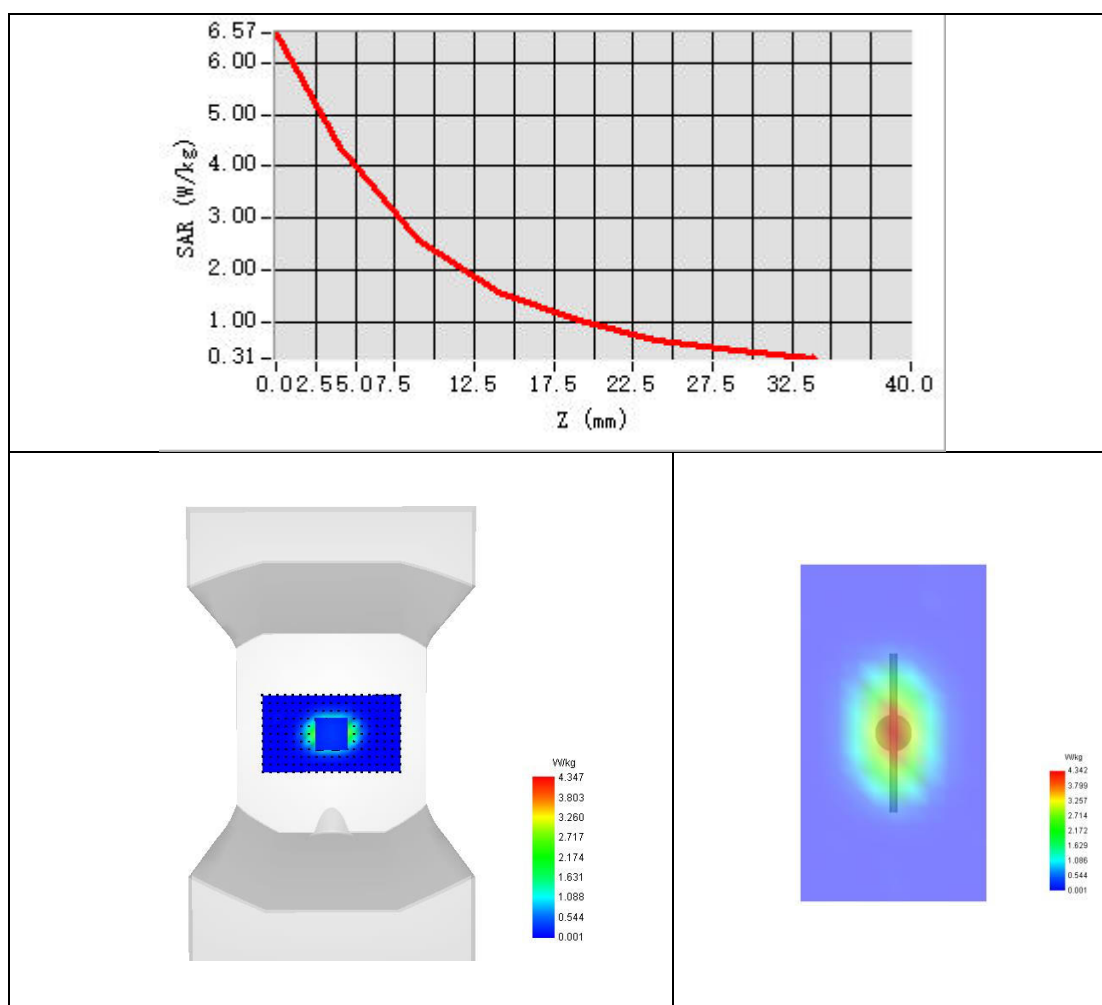


Maximum location: X=0.00, Y=0.00 ; SAR Peak: 6.51 W/kg

SAR 10g (W/Kg)	2.092
SAR 1g (W/Kg)	4.022



Z Axis Scan





System Performance Check Data (2450MHz)

Type: Phone measurement (Complete)

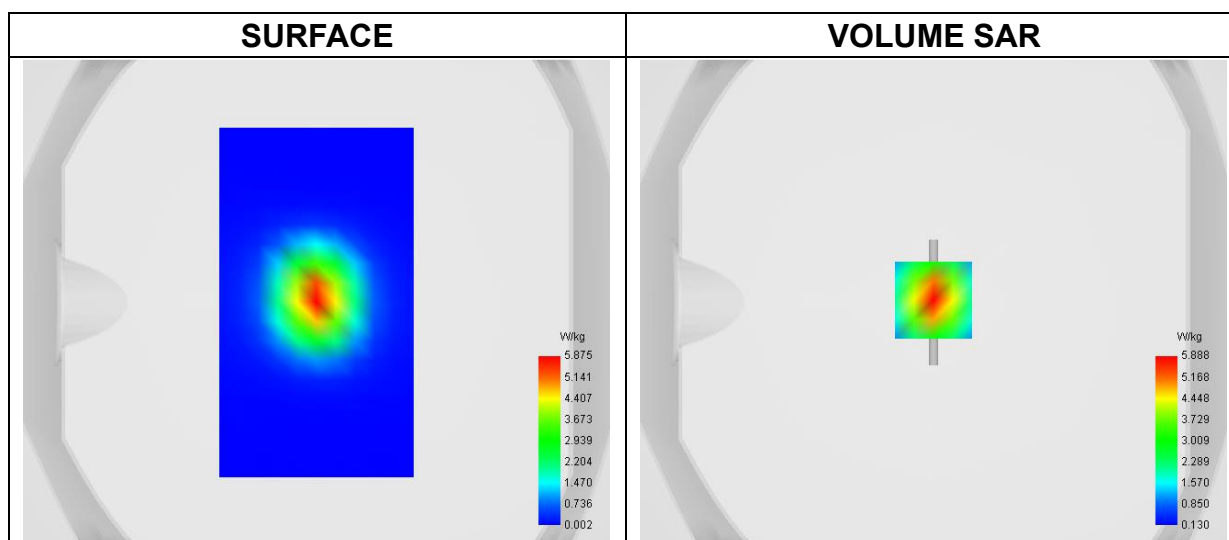
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement:2026-01-09

Experimental conditions.

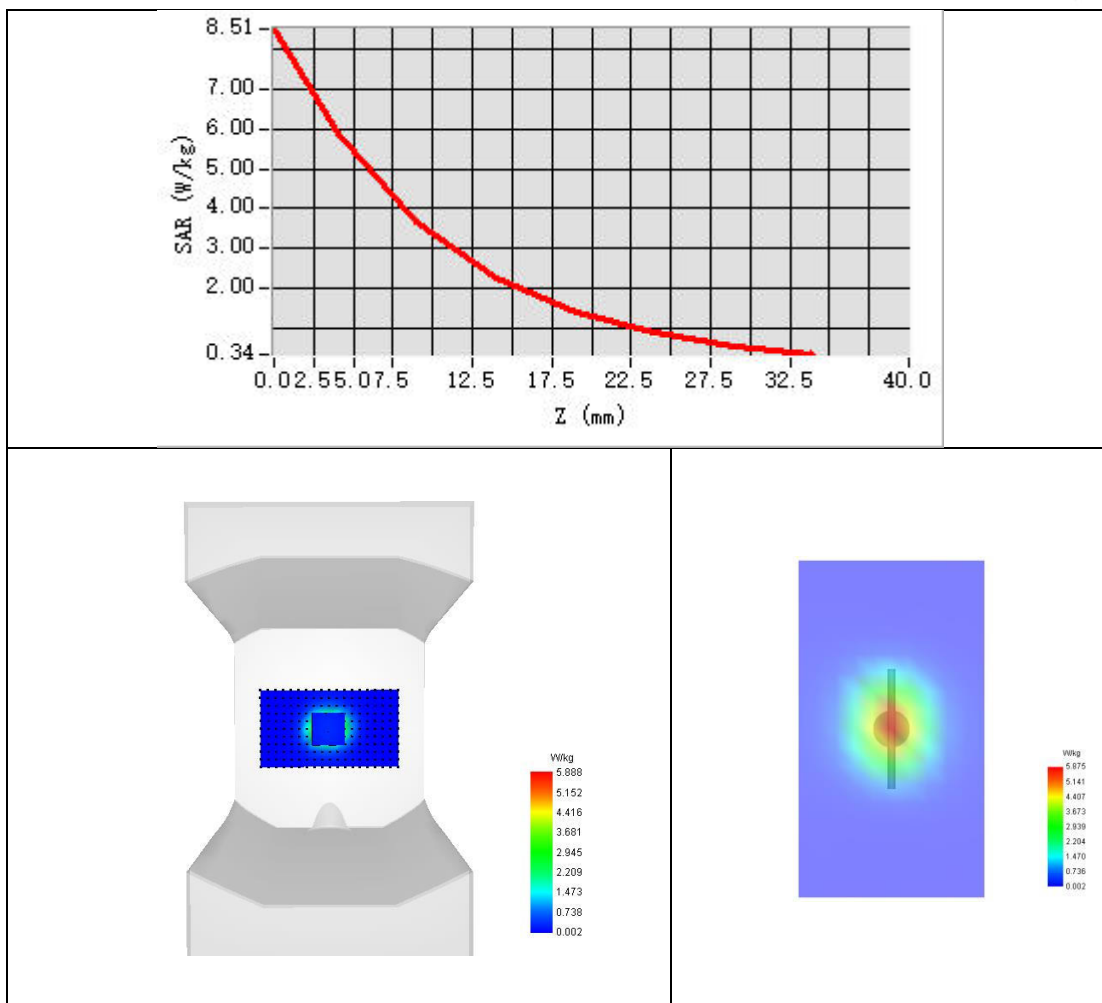
Phantom	Validation plane
Device Position	Dipole
Band	CW2450
Channels	Middle
Signal	CW
Frequency (MHz)	2450.000
Relative permittivity	40.36
Conductivity (S/m)	1.77
Probe	2225-EPGO-450
ConvF	1.51
Crest factor:	1:1



Maximum location: X=0.00, Y=1.00 ; SAR Peak: 8.48 W/kg

SAR 10g (W/Kg)	2.441
SAR 1g (W/Kg)	5.336

Z Axis Scan





System Performance Check Data (5200MHz)

Type: Phone measurement (Complete)

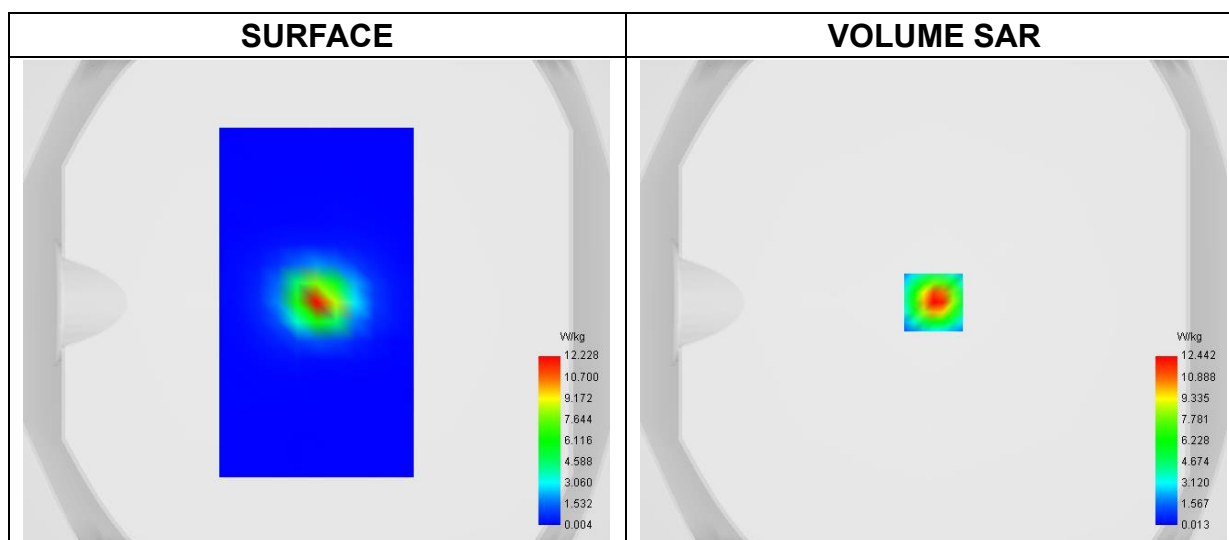
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement:2026-01-07

Experimental conditions.

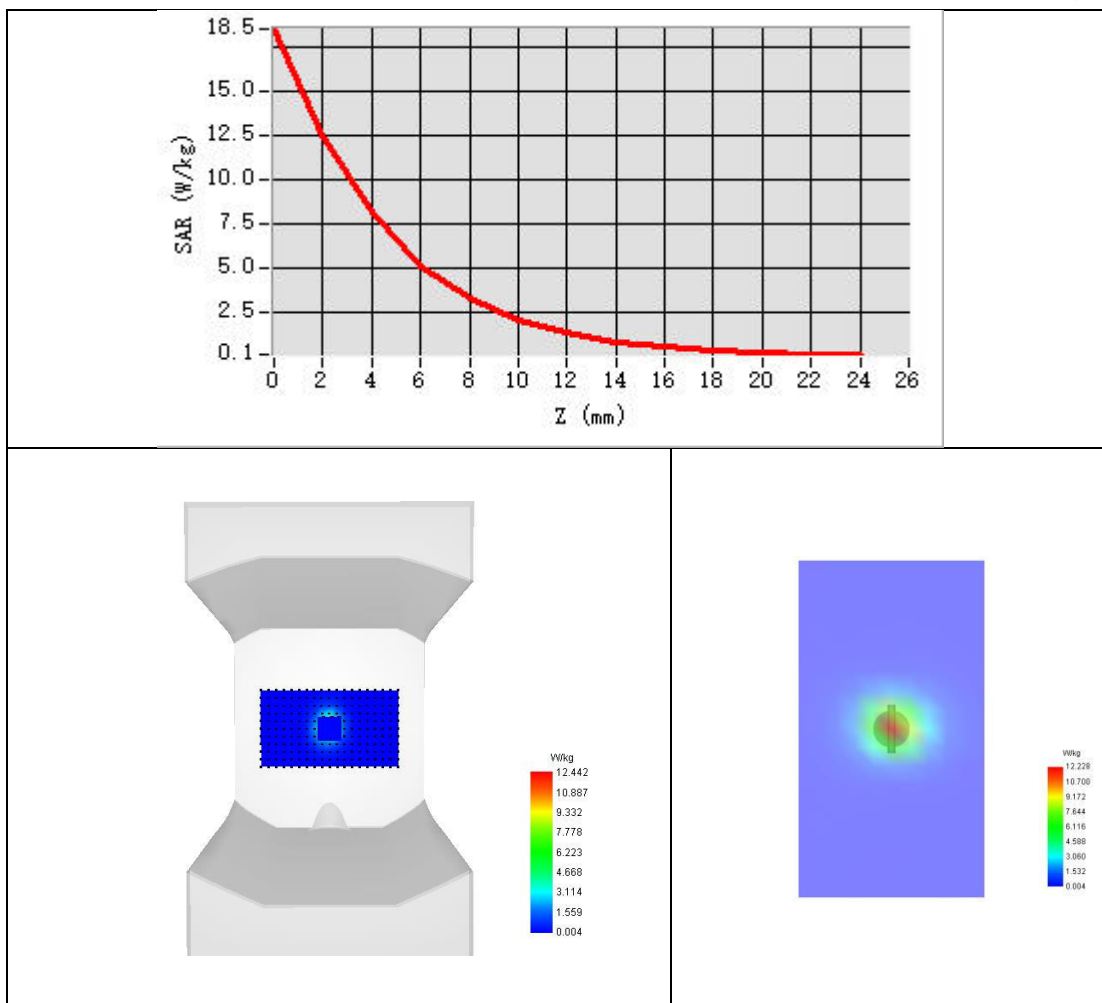
Phantom	Validation plane
Device Position	Dipole
Band	CW5200
Channels	Middle
Signal	CW
Frequency (MHz)	5200.000
Relative permittivity	36.54
Conductivity (S/m)	4.65
Probe	2225-EPGO-450
ConvF	1.58
Crest factor:	1:1



Maximum location: X=0.00, Y=0.00 ; SAR Peak: 18.59 W/kg

SAR 10g (W/Kg)	2.273
SAR 1g (W/Kg)	7.786

Z Axis Scan





System Performance Check Data (5400MHz)

Type: Phone measurement (Complete)

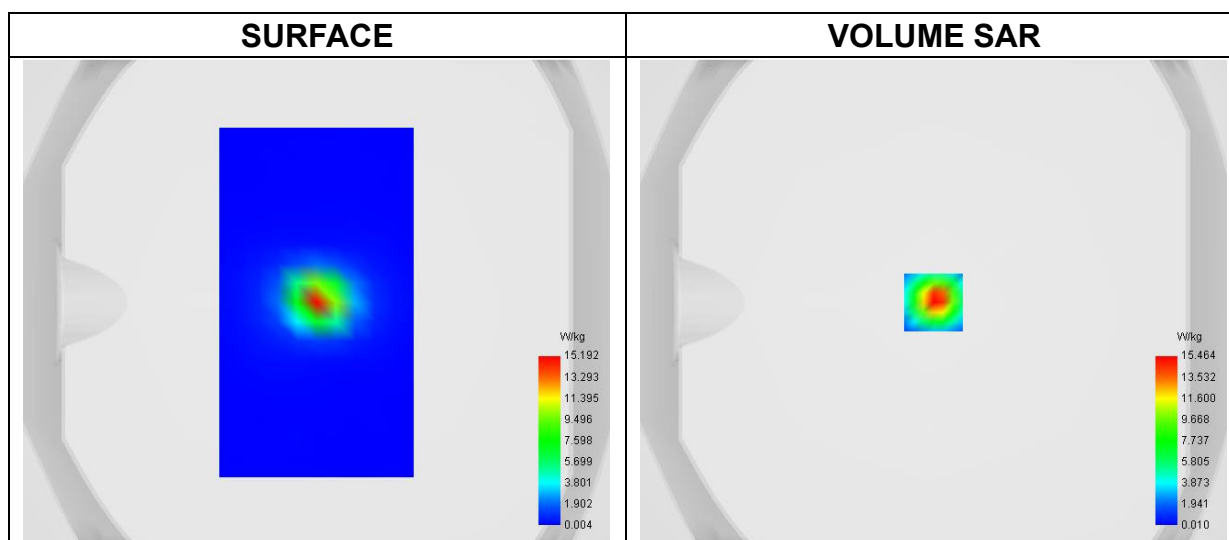
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement:2026-01-07

Experimental conditions.

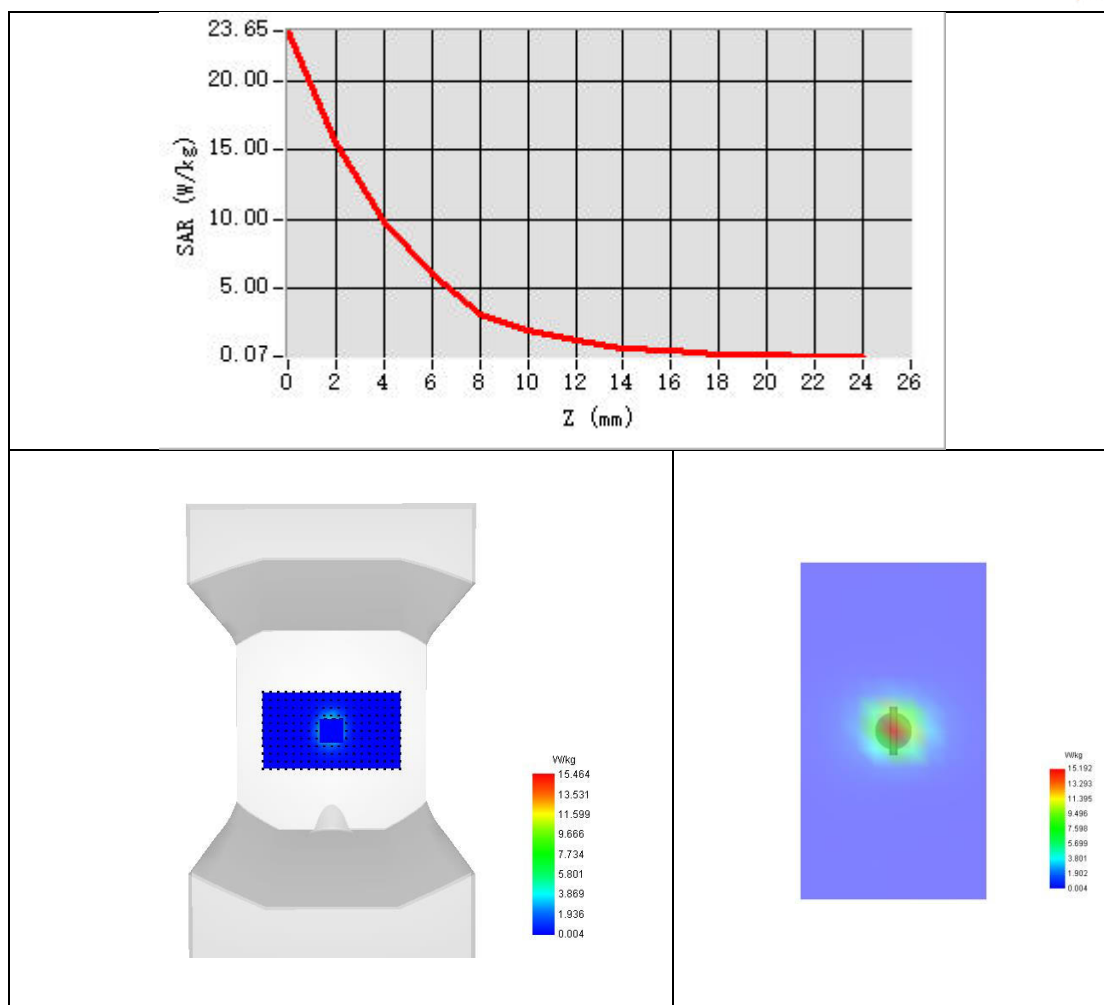
Phantom	Validation plane
Device Position	Dipole
Band	CW5400
Channels	Middle
Signal	CW
Frequency (MHz)	5400.000
Relative permittivity	36.59
Conductivity (S/m)	4.81
Probe	2225-EPGO-450
ConvF	1.60
Crest factor:	1:1



Maximum location: X=0.00, Y=0.00 ; SAR Peak: 22.58 W/kg

SAR 10g (W/Kg)	2.246
SAR 1g (W/Kg)	7.726

Z Axis Scan





System Performance Check Data (5600MHz)

Type: Phone measurement (Complete)

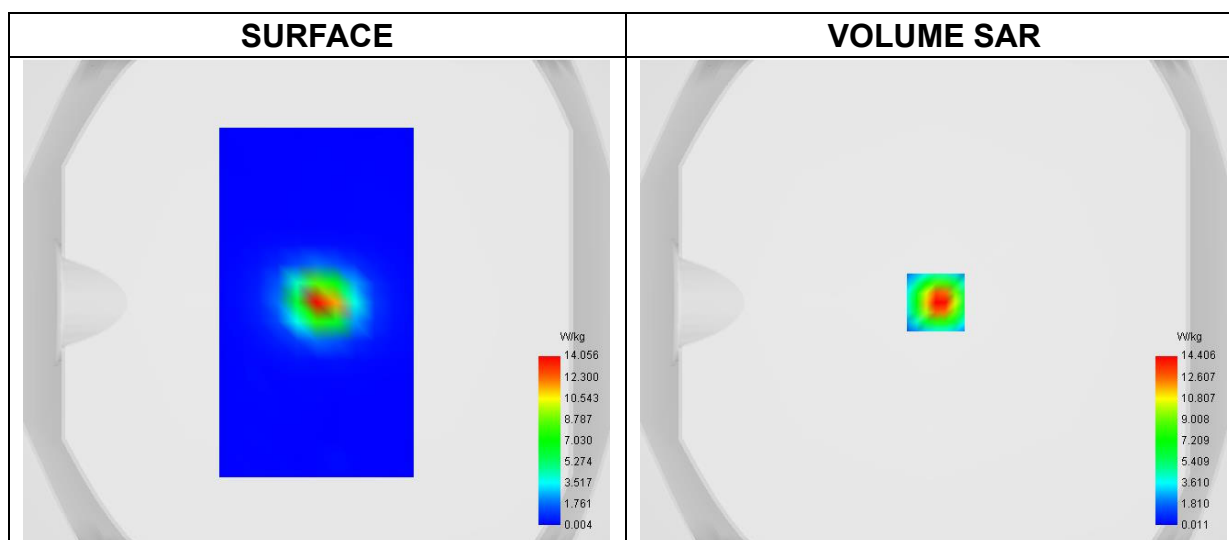
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement:2026-01-08

Experimental conditions.

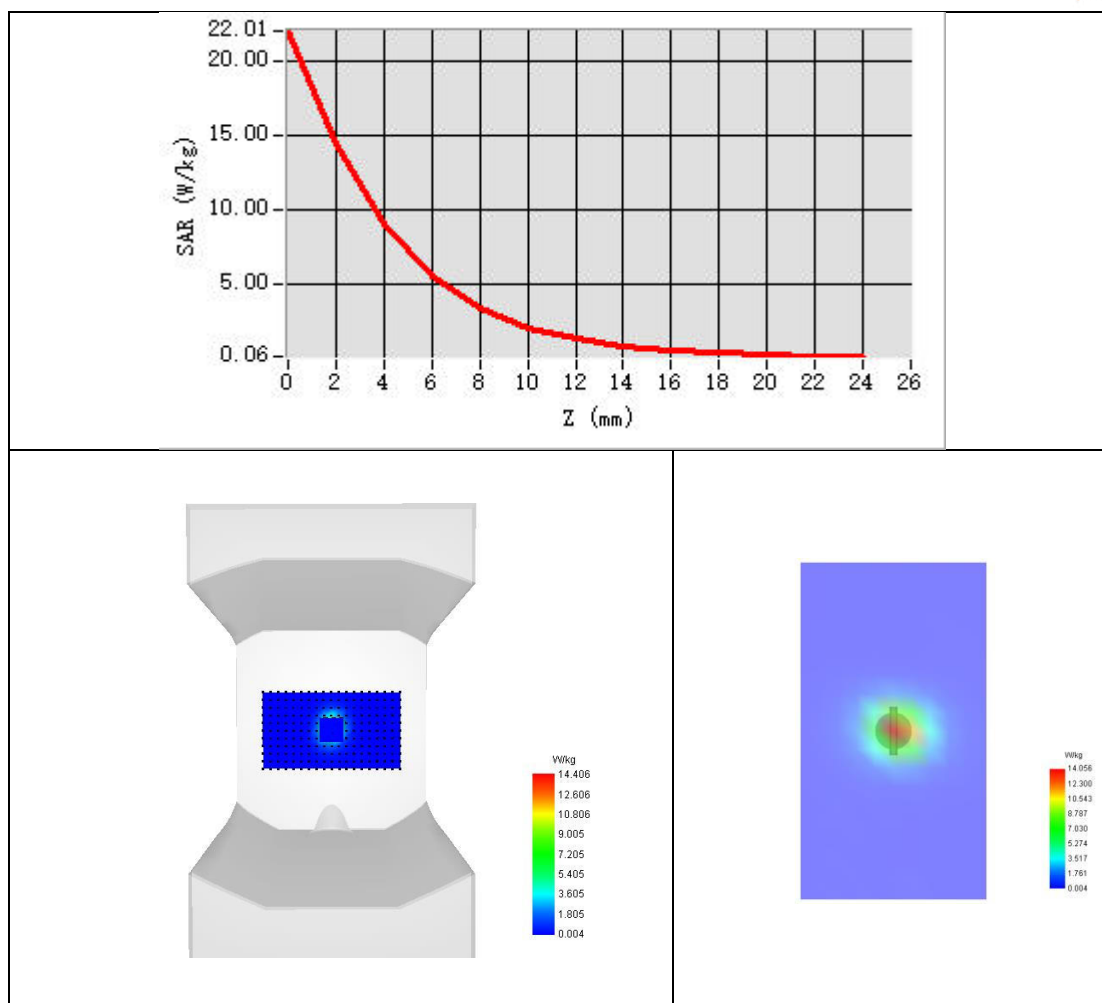
Phantom	Validation plane
Device Position	Dipole
Band	CW5600
Channels	Middle
Signal	CW
Frequency (MHz)	5600.000
Relative permittivity	36.21
Conductivity (S/m)	5.07
Probe	2225-EPGO-450
ConvF	1.63
Crest factor:	1:1



Maximum location: X=1.00, Y=0.00 ; SAR Peak: 22.77 W/kg

SAR 10g (W/Kg)	2.377
SAR 1g (W/Kg)	8.195

Z Axis Scan



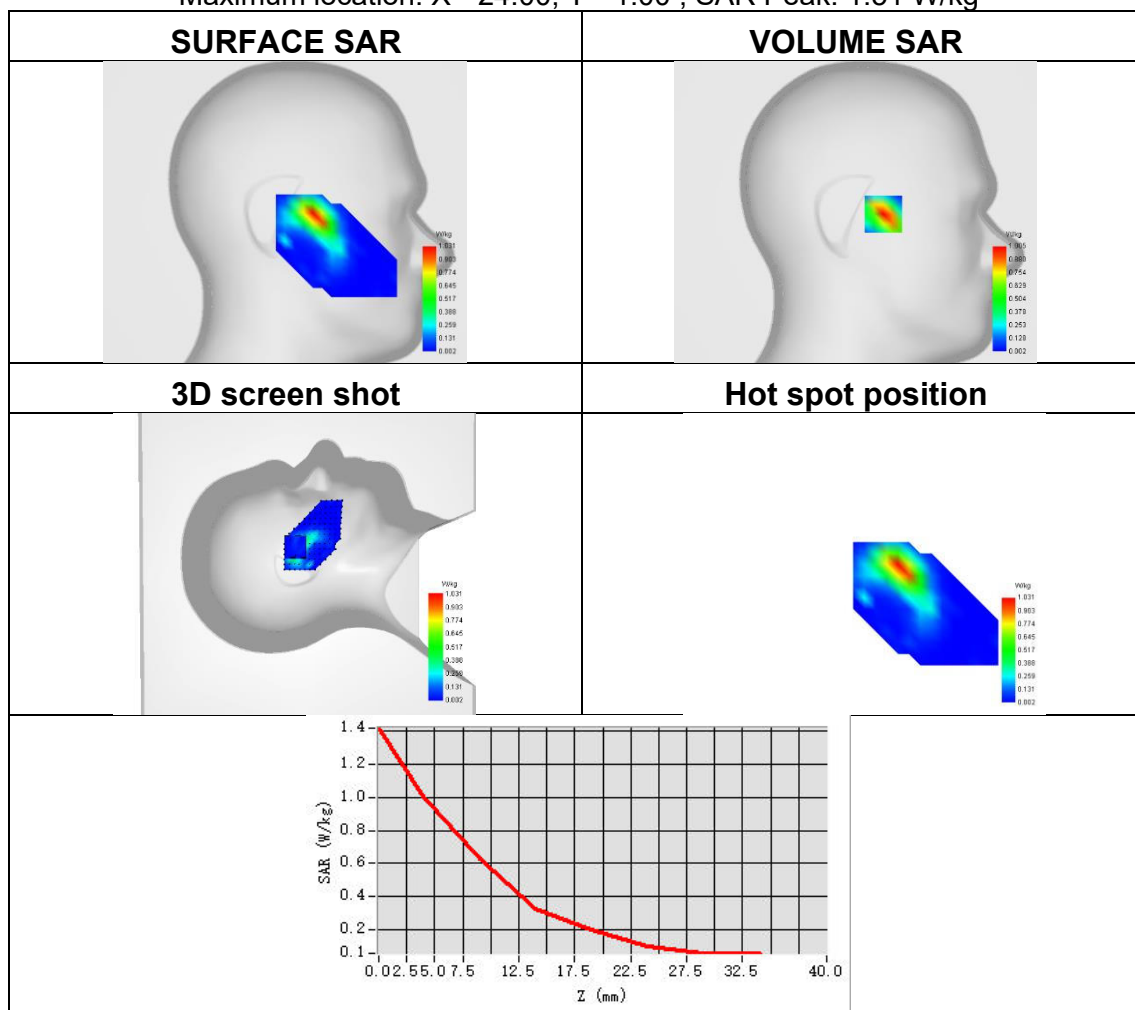


Appendix B. SAR Test Plots

Plot 1:

Test Date	2026-01-09
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	ISM
Signal	IEEE 802.11b
Frequency	2462
SAR 10g (W/Kg)	0.456
SAR 1g (W/Kg)	0.922
ConvF	1.51
Relative permittivity	40.36
Conductivity (S/m)	1.77

Maximum location: X=-24.00, Y=-1.00 ; SAR Peak: 1.51 W/kg

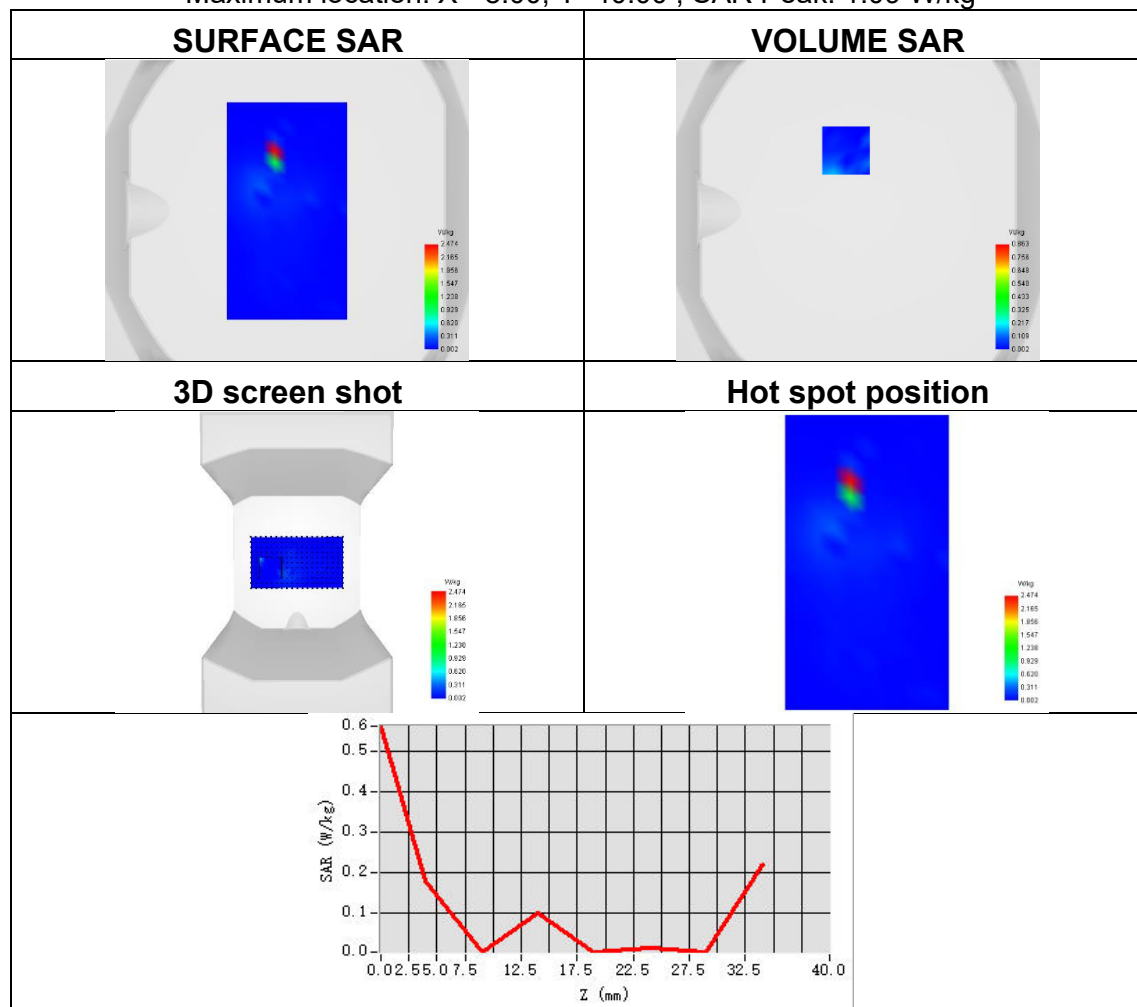




Plot 2:

Test Date	2026-01-09
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	ISM
Signal	IEEE 802.11b
Frequency	2462
SAR 10g (W/Kg)	0.072
SAR 1g (W/Kg)	0.281
ConvF	1.51
Relative permittivity	40.36
Conductivity (S/m)	1.77

Maximum location: X=-8.00, Y=40.00 ; SAR Peak: 1.09 W/kg

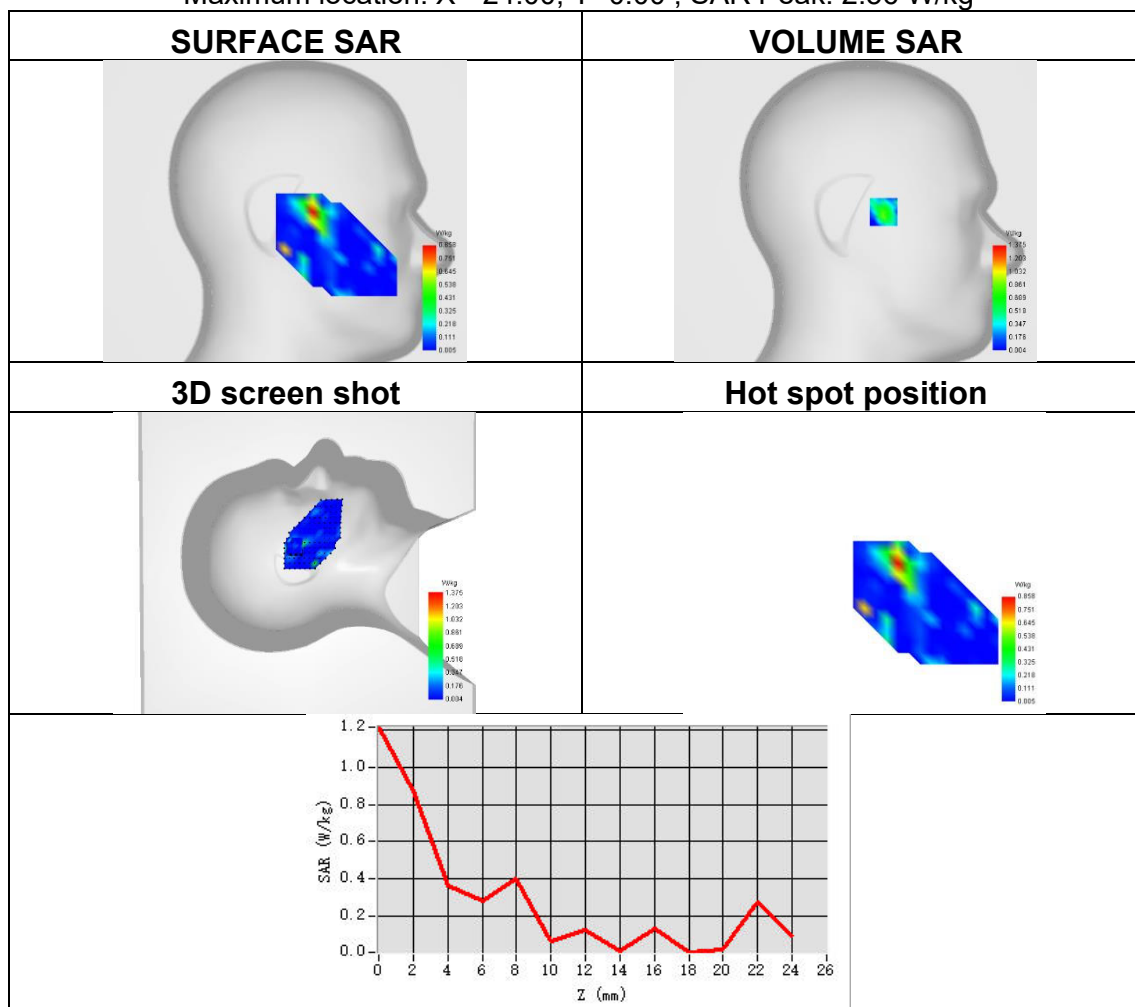




Plot 3:

Test Date	2026-01-07
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Left head
Device Position	Cheek
Band	U-NII-1
Signal	IEEE 802.11a
Frequency	5240
SAR 10g (W/Kg)	0.198
SAR 1g (W/Kg)	0.668
ConvF	1.58
Relative permittivity	36.54
Conductivity (S/m)	4.65

Maximum location: X=-24.00, Y=0.00 ; SAR Peak: 2.56 W/kg

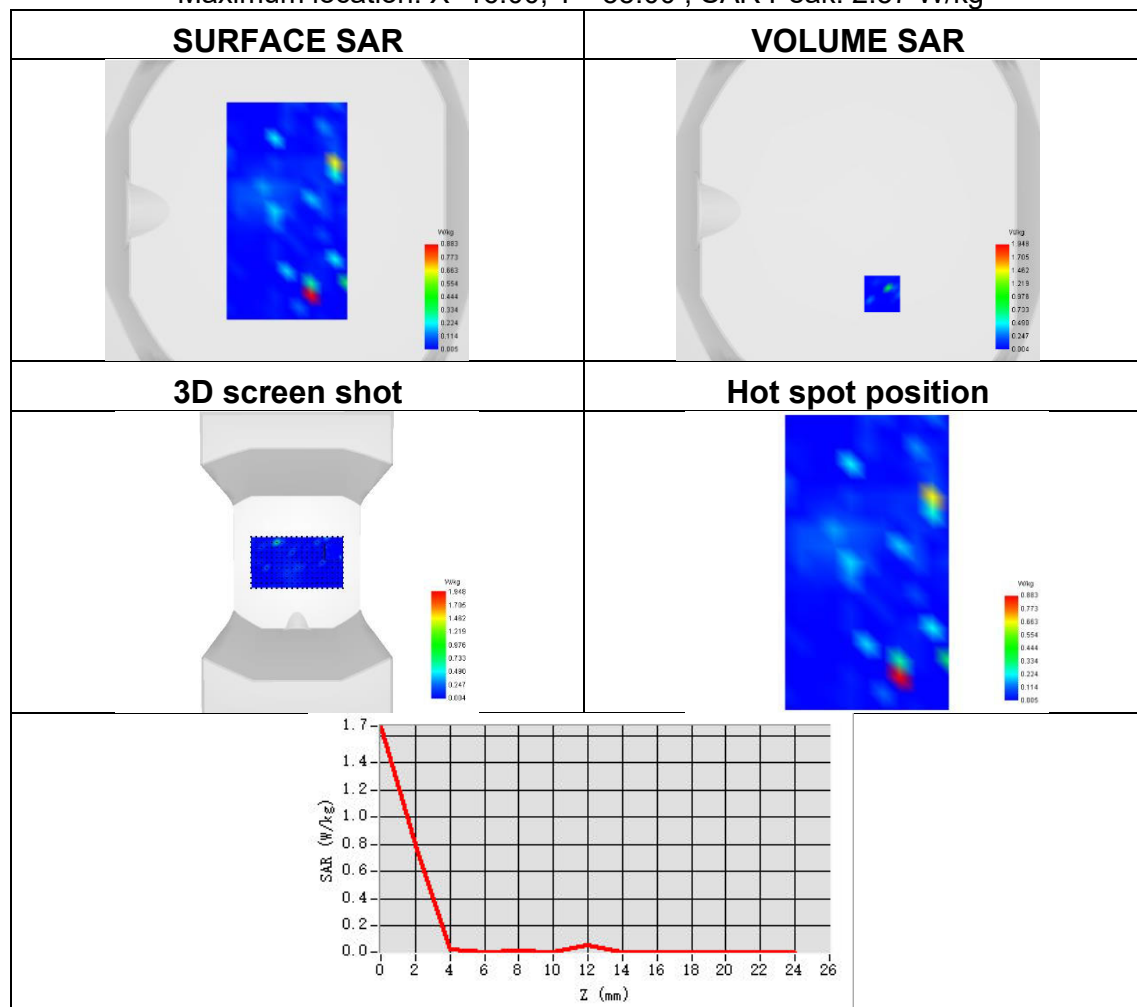




Plot 4:

Test Date	2026-01-07
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Back Side
Band	U-NII-1
Signal	IEEE 802.11a
Frequency	5240
SAR 10g (W/Kg)	0.065
SAR 1g (W/Kg)	0.205
ConvF	1.58
Relative permittivity	36.54
Conductivity (S/m)	4.65

Maximum location: X=16.00, Y=-55.00 ; SAR Peak: 2.57 W/kg

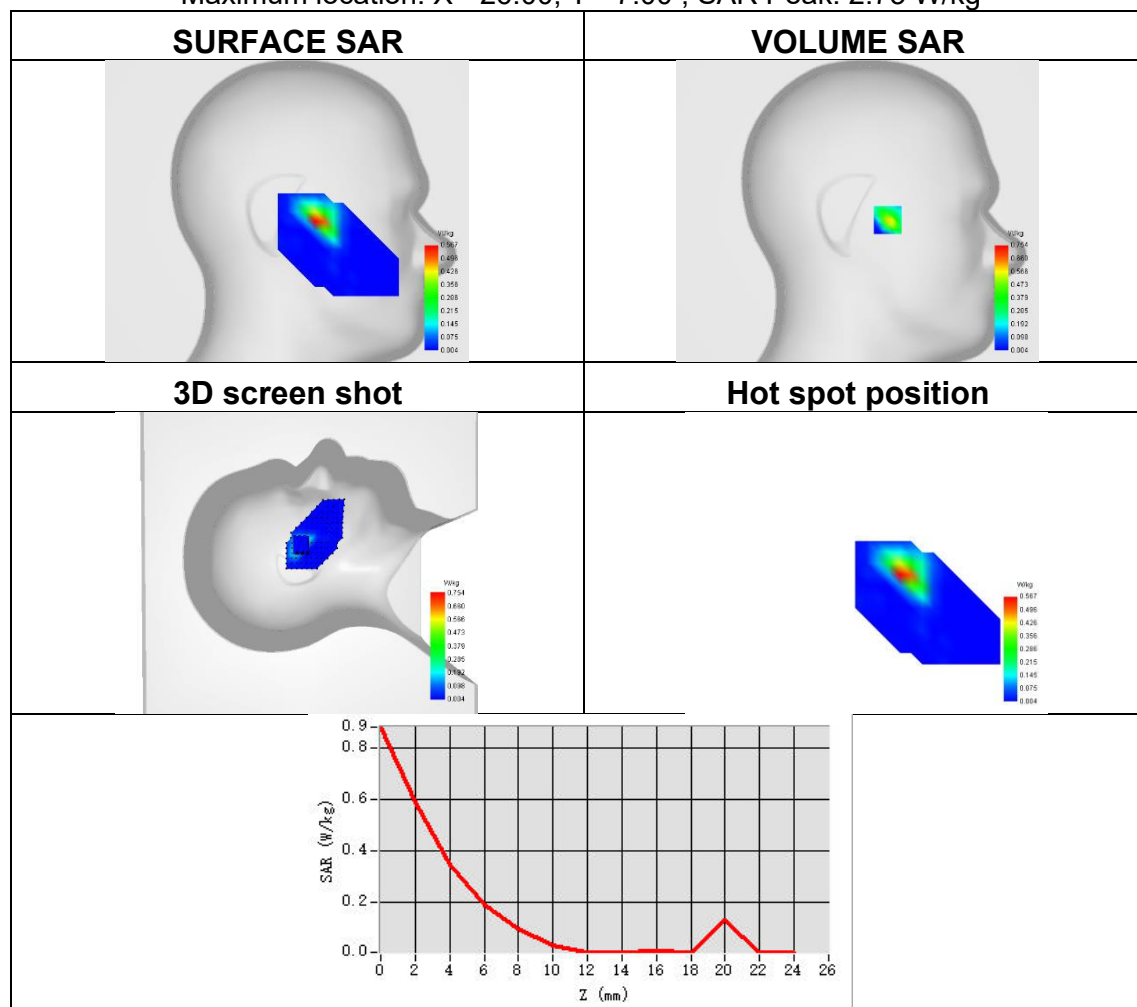




Plot 5:

Test Date	2026-01-07
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Left head
Device Position	Cheek
Band	U-NII-2a
Signal	IEEE 802.11a
Frequency	5300
SAR 10g (W/Kg)	0.113
SAR 1g (W/Kg)	0.435
ConvF	1.60
Relative permittivity	36.59
Conductivity (S/m)	4.81

Maximum location: X=-26.00, Y=-7.00 ; SAR Peak: 2.73 W/kg

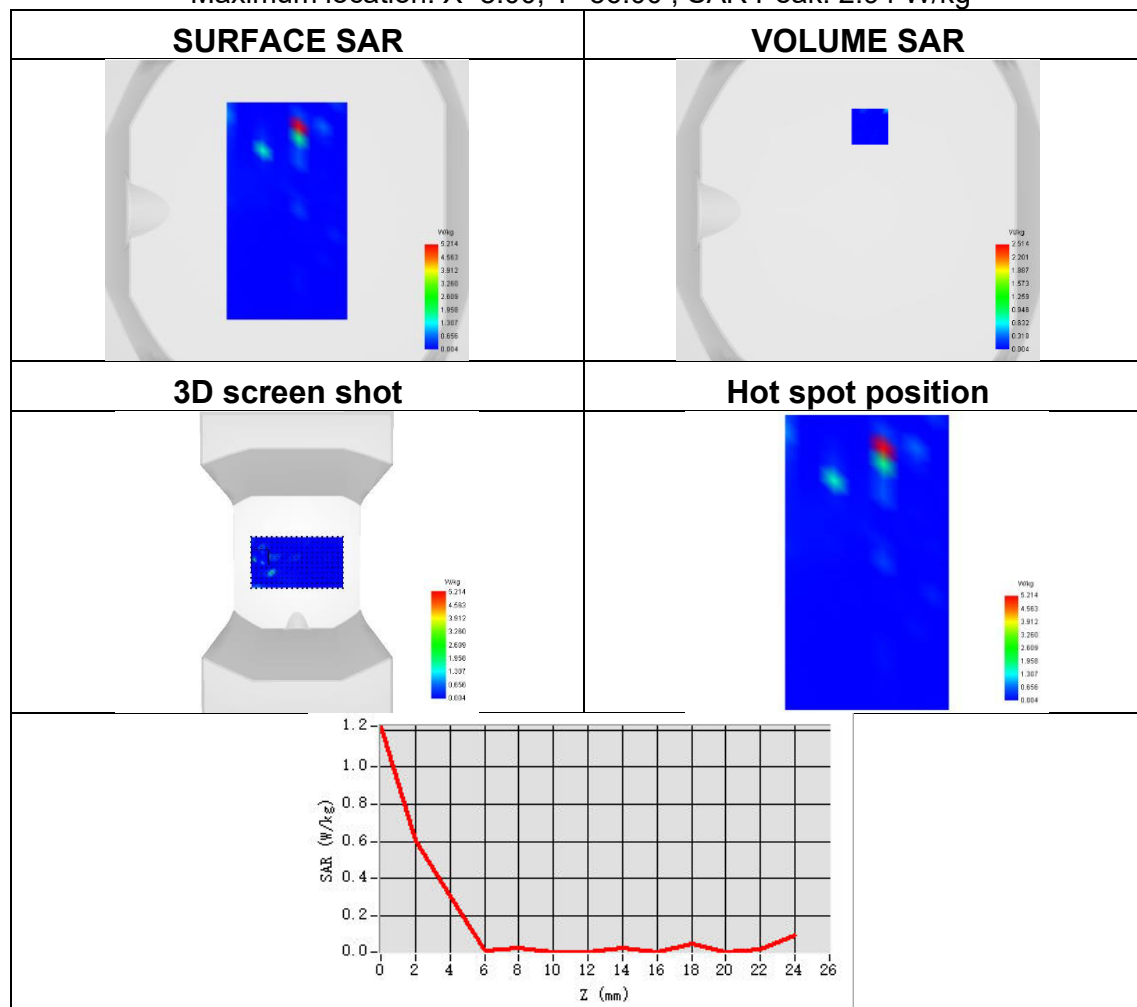




Plot 6:

Test Date	2026-01-07
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Back Side
Band	U-NII-2a
Signal	IEEE 802.11a
Frequency	5300
SAR 10g (W/Kg)	0.028
SAR 1g (W/Kg)	0.122
ConvF	1.60
Relative permittivity	36.59
Conductivity (S/m)	4.81

Maximum location: X=8.00, Y=56.00 ; SAR Peak: 2.94 W/kg

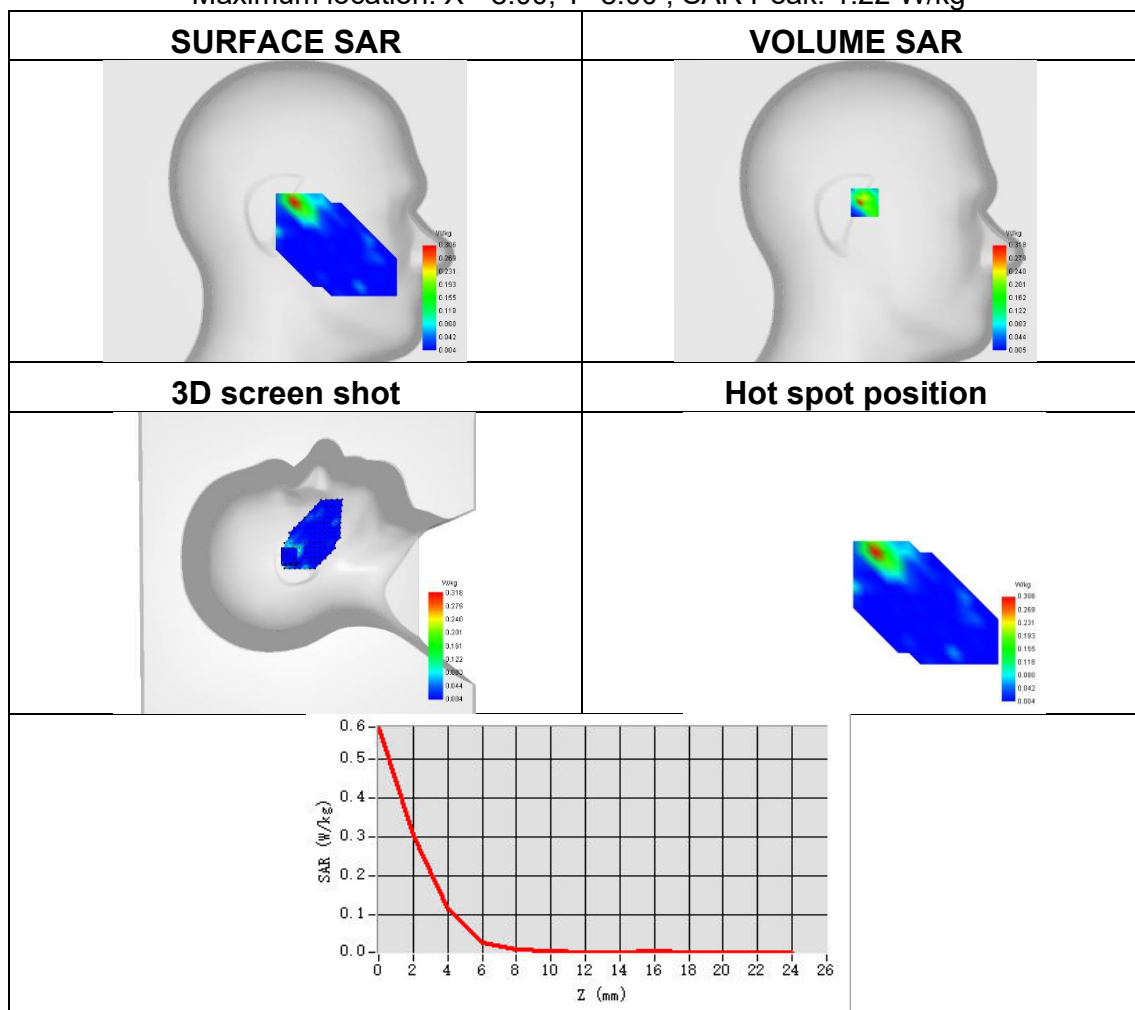




Plot 7:

Test Date	2026-01-07
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Left head
Device Position	Cheek
Band	U-NII-2c
Signal	IEEE 802.11a
Frequency	5500
SAR 10g (W/Kg)	0.058
SAR 1g (W/Kg)	0.210
ConvF	1.63
Relative permittivity	36.21
Conductivity (S/m)	5.07

Maximum location: X=-8.00, Y=8.00 ; SAR Peak: 1.22 W/kg

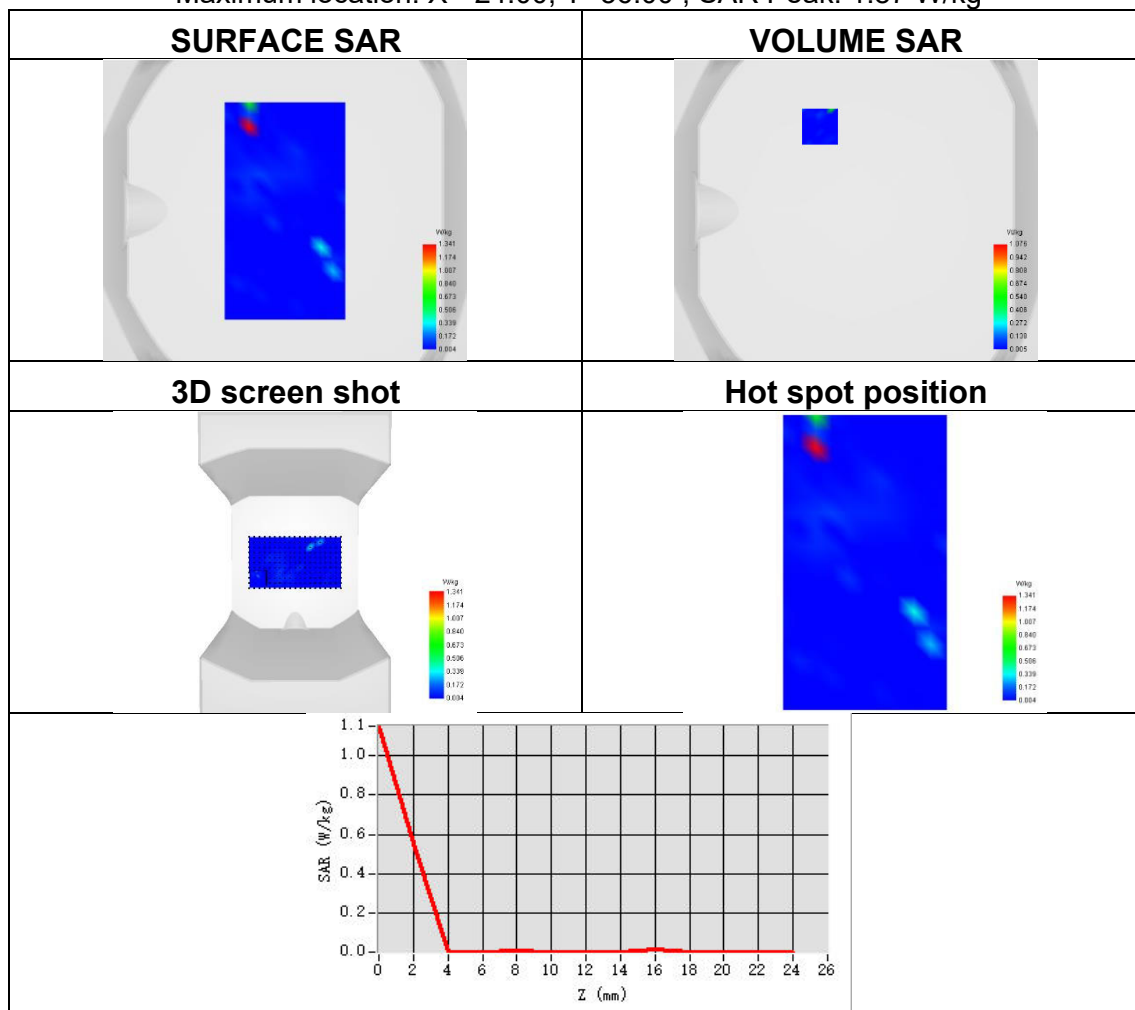




Plot 8:

Test Date	2026-01-07
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Back Side
Band	U-NII-2c
Signal	IEEE 802.11a
Frequency	5500
SAR 10g (W/Kg)	0.017
SAR 1g (W/Kg)	0.047
ConvF	1.63
Relative permittivity	36.21
Conductivity (S/m)	5.07

Maximum location: X=-24.00, Y=56.00 ; SAR Peak: 1.87 W/kg

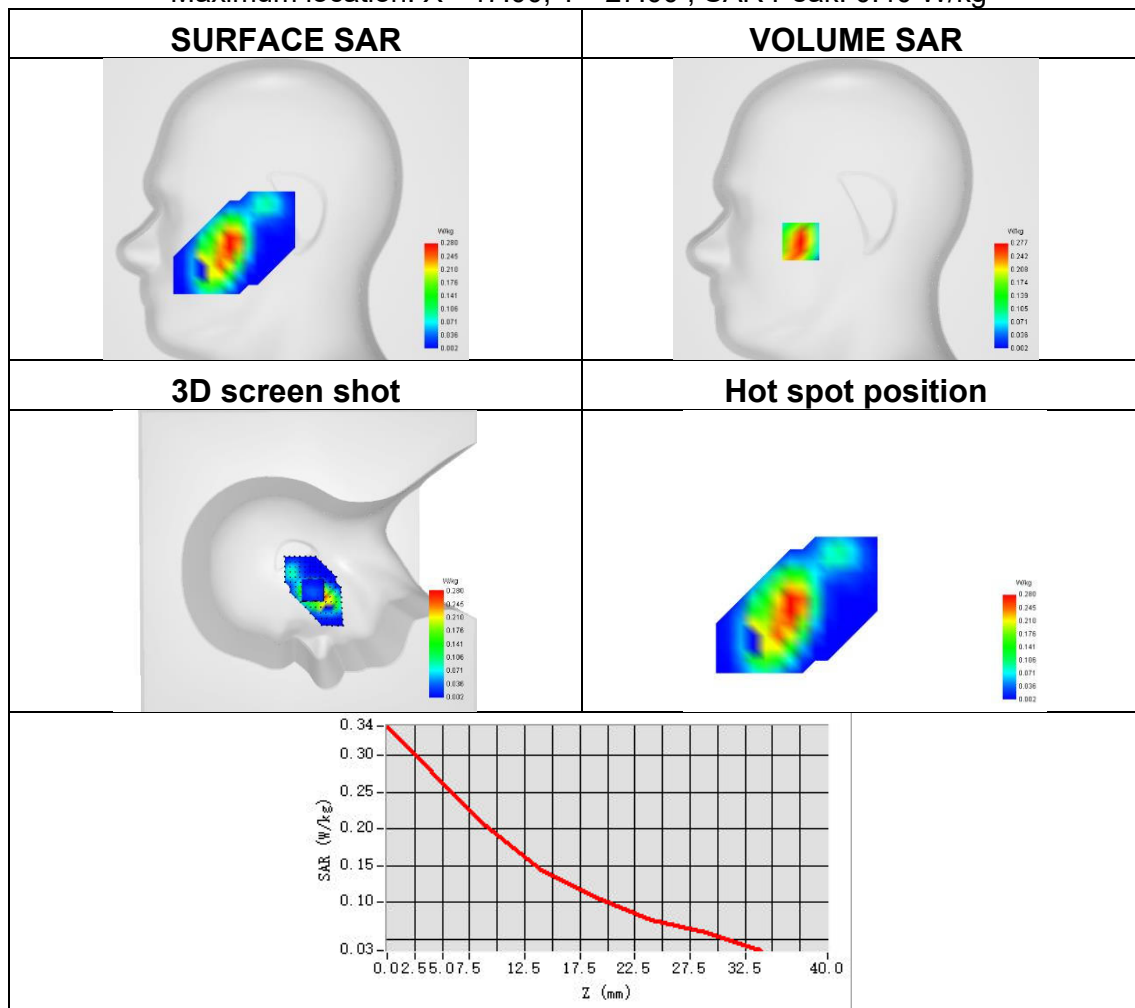




Plot 9:

Test Date	2026-01-14
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE band 2
Signal	LTE FDD
Frequency	1860
SAR 10g (W/Kg)	0.159
SAR 1g (W/Kg)	0.262
ConvF	2.25
Relative permittivity	40.06
Conductivity (S/m)	1.45

Maximum location: X=-47.00, Y=-27.00 ; SAR Peak: 0.40 W/kg

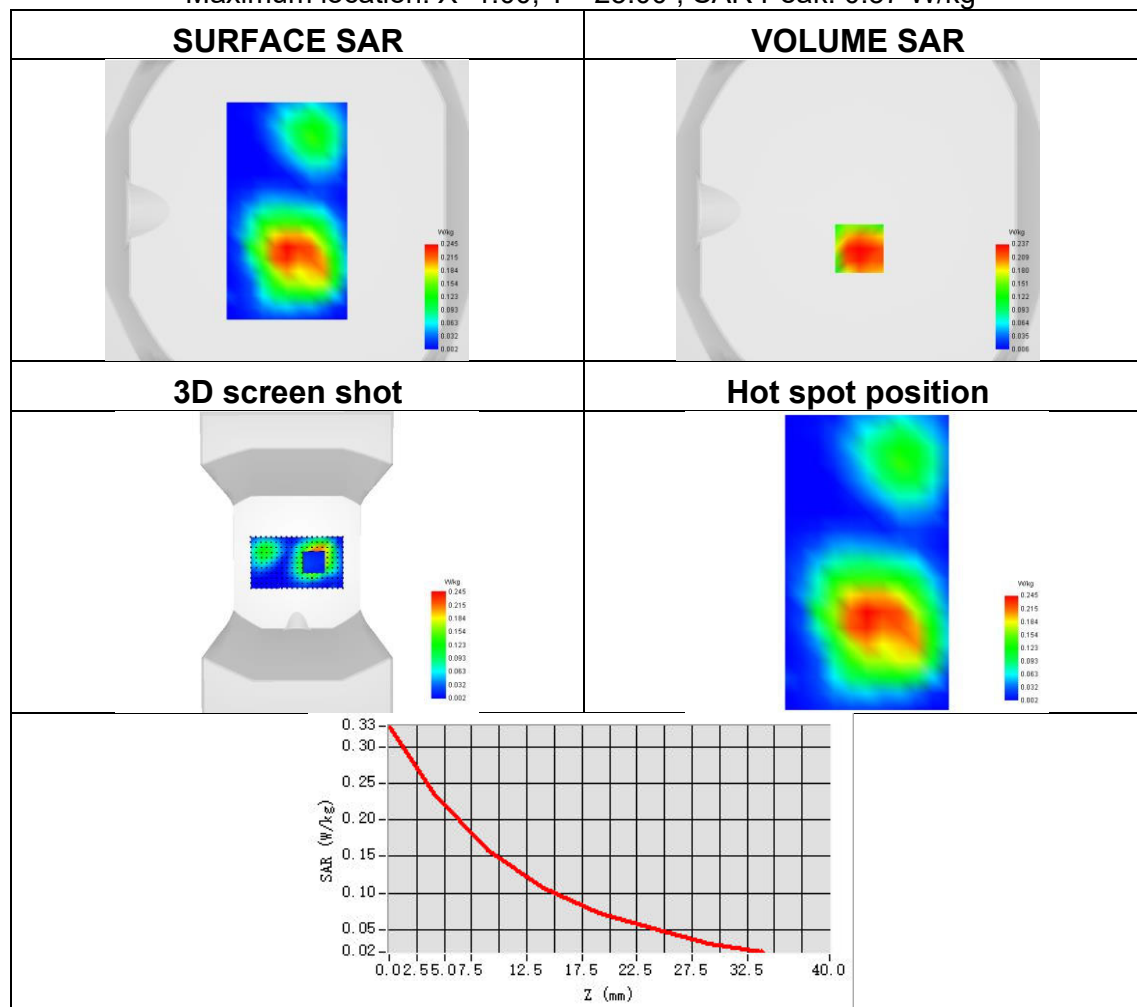




Plot 10:

Test Date	2026-01-14
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back side
Band	LTE band 2
Signal	LTE FDD
Frequency	1860
SAR 10g (W/Kg)	0.142
SAR 1g (W/Kg)	0.234
ConvF	2.25
Relative permittivity	40.06
Conductivity (S/m)	1.45

Maximum location: X=1.00, Y=-25.00 ; SAR Peak: 0.37 W/kg

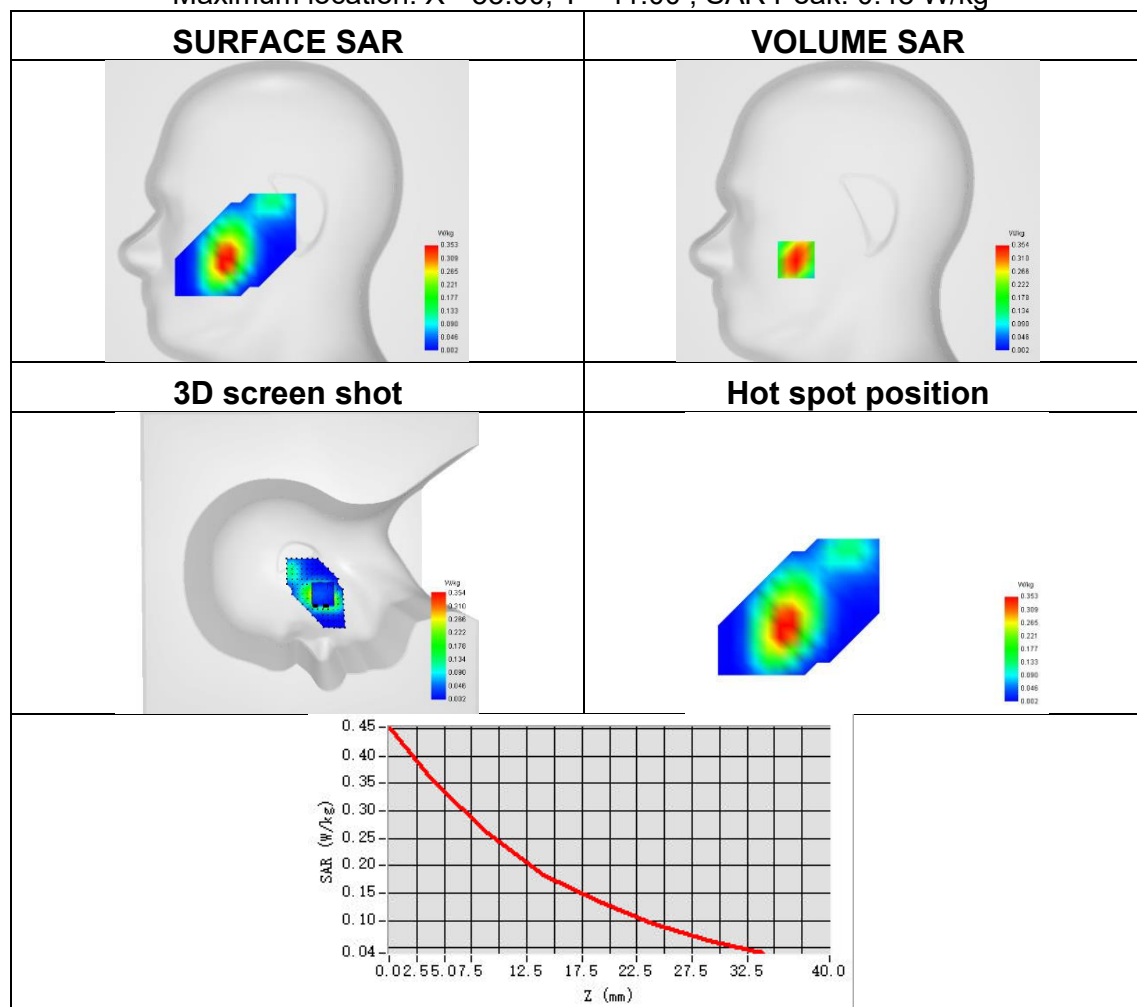




Plot 11:

Test Date	2026-01-13
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE band 4
Signal	LTE FDD
Frequency	1732.5
SAR 10g (W/Kg)	0.212
SAR 1g (W/Kg)	0.338
ConvF	1.95
Relative permittivity	41.04
Conductivity (S/m)	1.35

Maximum location: X=-53.00, Y=-41.00 ; SAR Peak: 0.48 W/kg

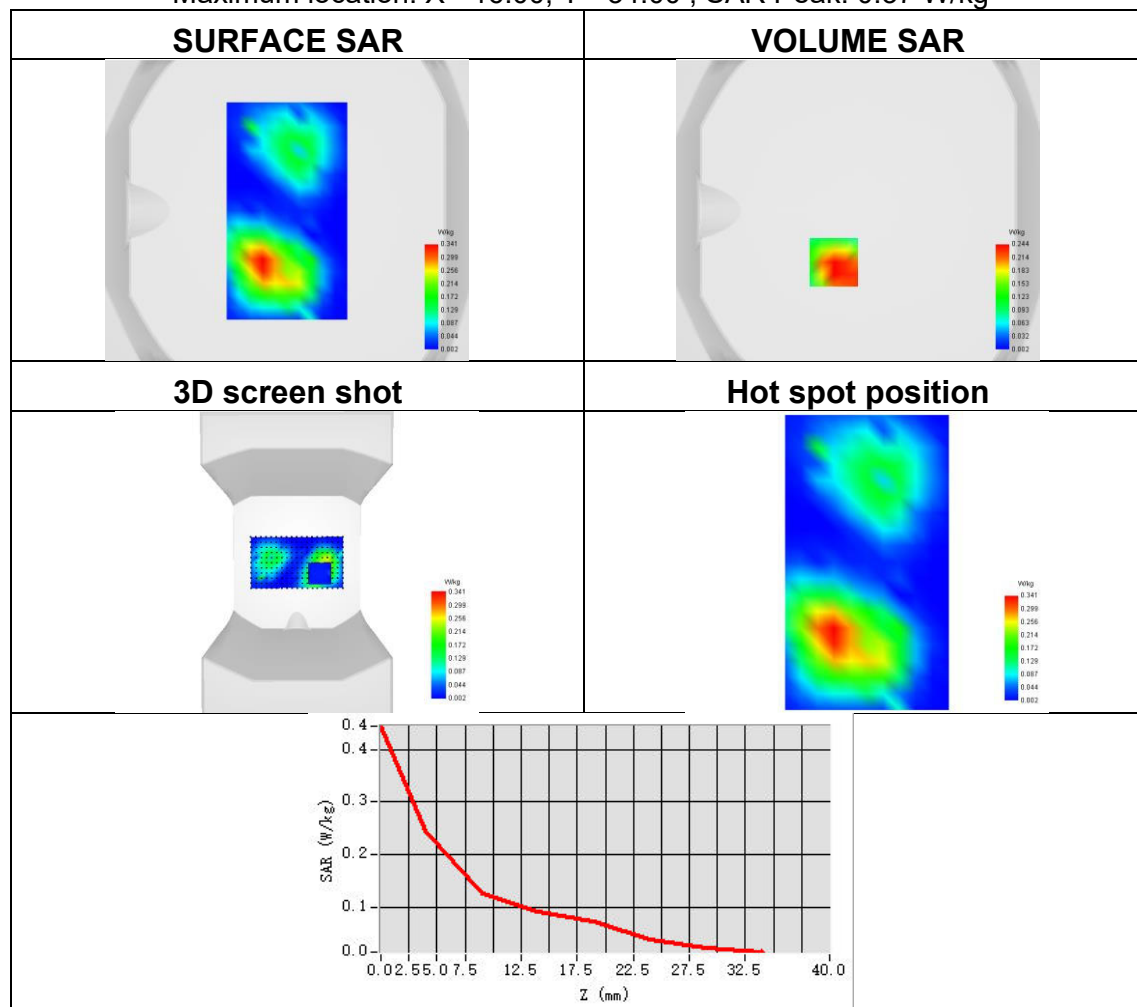




Plot 12:

Test Date	2026-01-13
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back side
Band	LTE band 4
Signal	LTE FDD
Frequency	1732.5
SAR 10g (W/Kg)	0.139
SAR 1g (W/Kg)	0.239
ConvF	1.95
Relative permittivity	41.04
Conductivity (S/m)	1.35

Maximum location: X=-16.00, Y=-34.00 ; SAR Peak: 0.37 W/kg

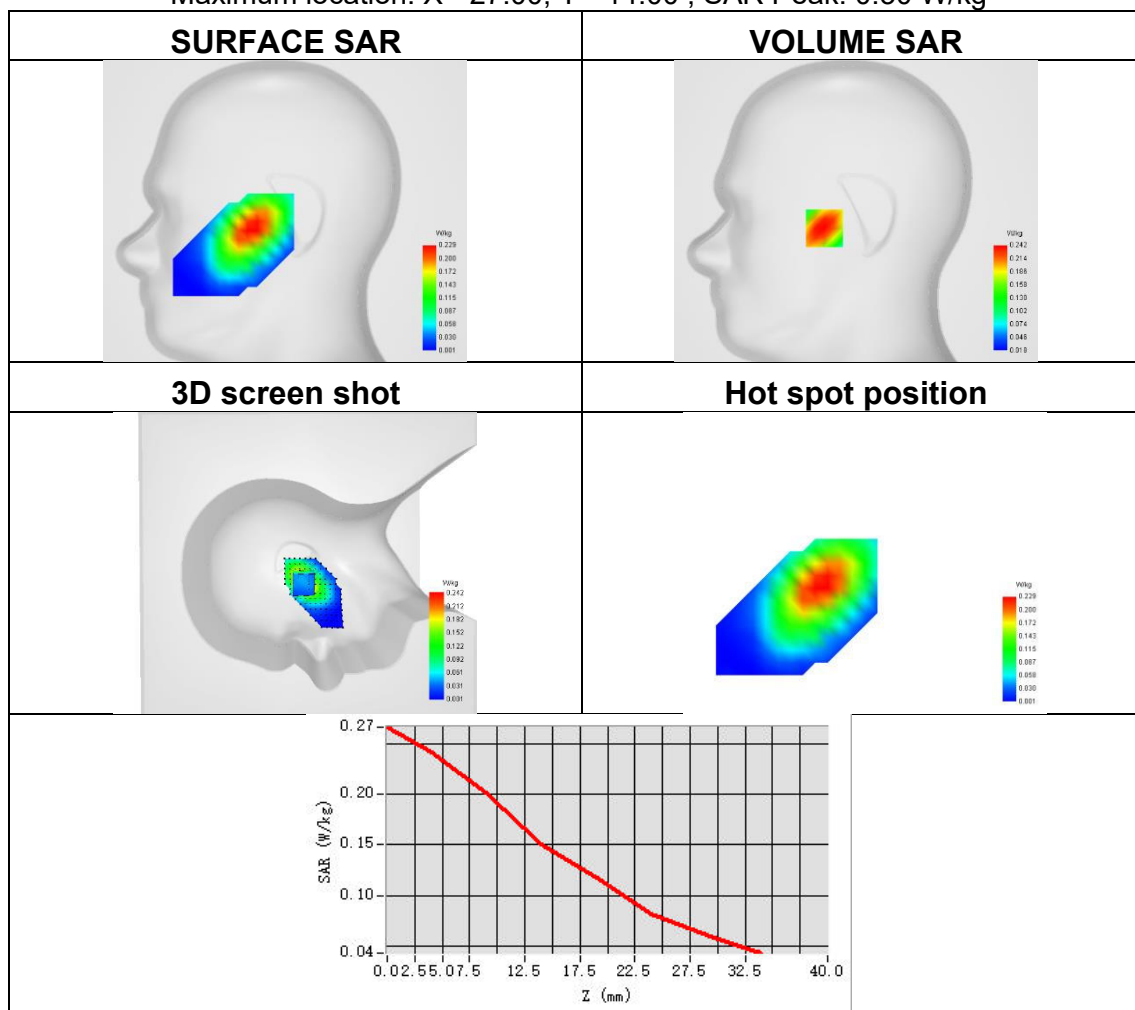




Plot 13:

Test Date	2026-01-09
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE band 5
Signal	LTE FDD
Frequency	836.5
SAR 10g (W/Kg)	0.161
SAR 1g (W/Kg)	0.231
ConvF	1.72
Relative permittivity	42.47
Conductivity (S/m)	0.92

Maximum location: X=-27.00, Y=-14.00 ; SAR Peak: 0.30 W/kg

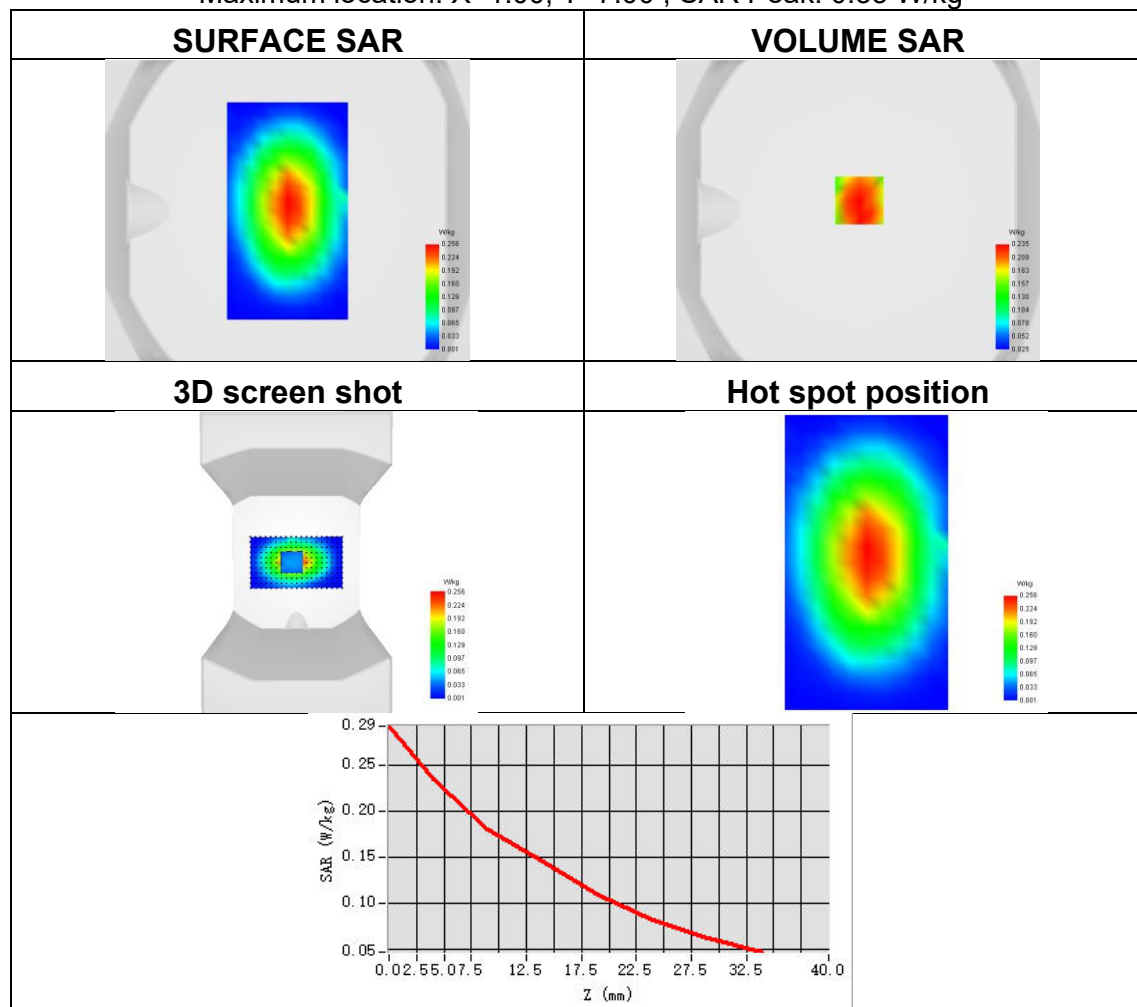




Plot 14:

Test Date	2026-01-09
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Front side
Band	LTE band 5
Signal	LTE FDD
Frequency	836.5
SAR 10g (W/Kg)	0.153
SAR 1g (W/Kg)	0.230
ConvF	1.72
Relative permittivity	42.47
Conductivity (S/m)	0.92

Maximum location: X=1.00, Y=7.00 ; SAR Peak: 0.33 W/kg

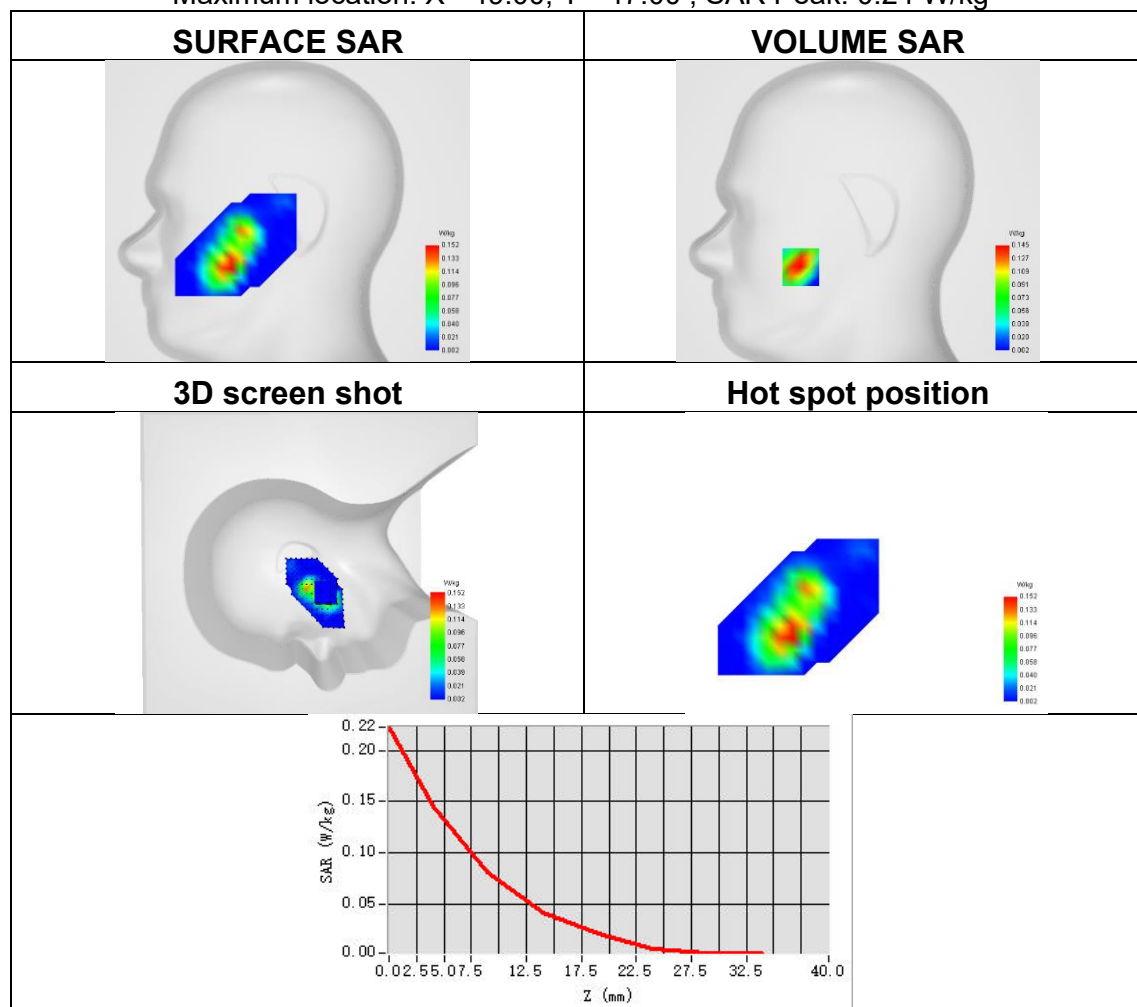




Plot 15:

Test Date	2026-01-09
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE band 7
Signal	LTE FDD
Frequency	2510
SAR 10g (W/Kg)	0.064
SAR 1g (W/Kg)	0.137
ConvF	1.44
Relative permittivity	40.36
Conductivity (S/m)	1.77

Maximum location: X=-49.00, Y=-47.00 ; SAR Peak: 0.24 W/kg

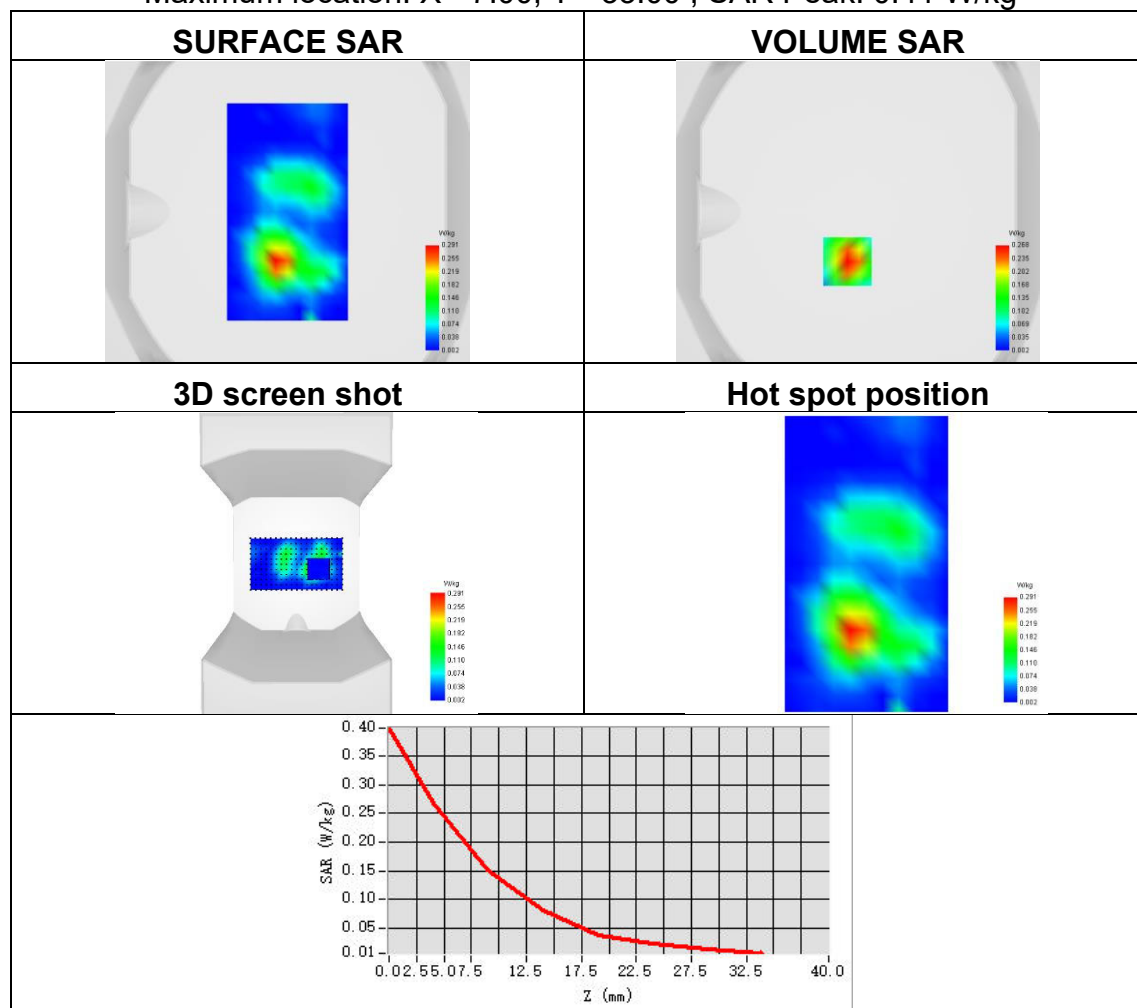




Plot 16:

Test Date	2026-01-09
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 7
Signal	LTE FDD
Frequency	2510
SAR 10g (W/Kg)	0.123
SAR 1g (W/Kg)	0.249
ConvF	1.44
Relative permittivity	40.36
Conductivity (S/m)	1.77

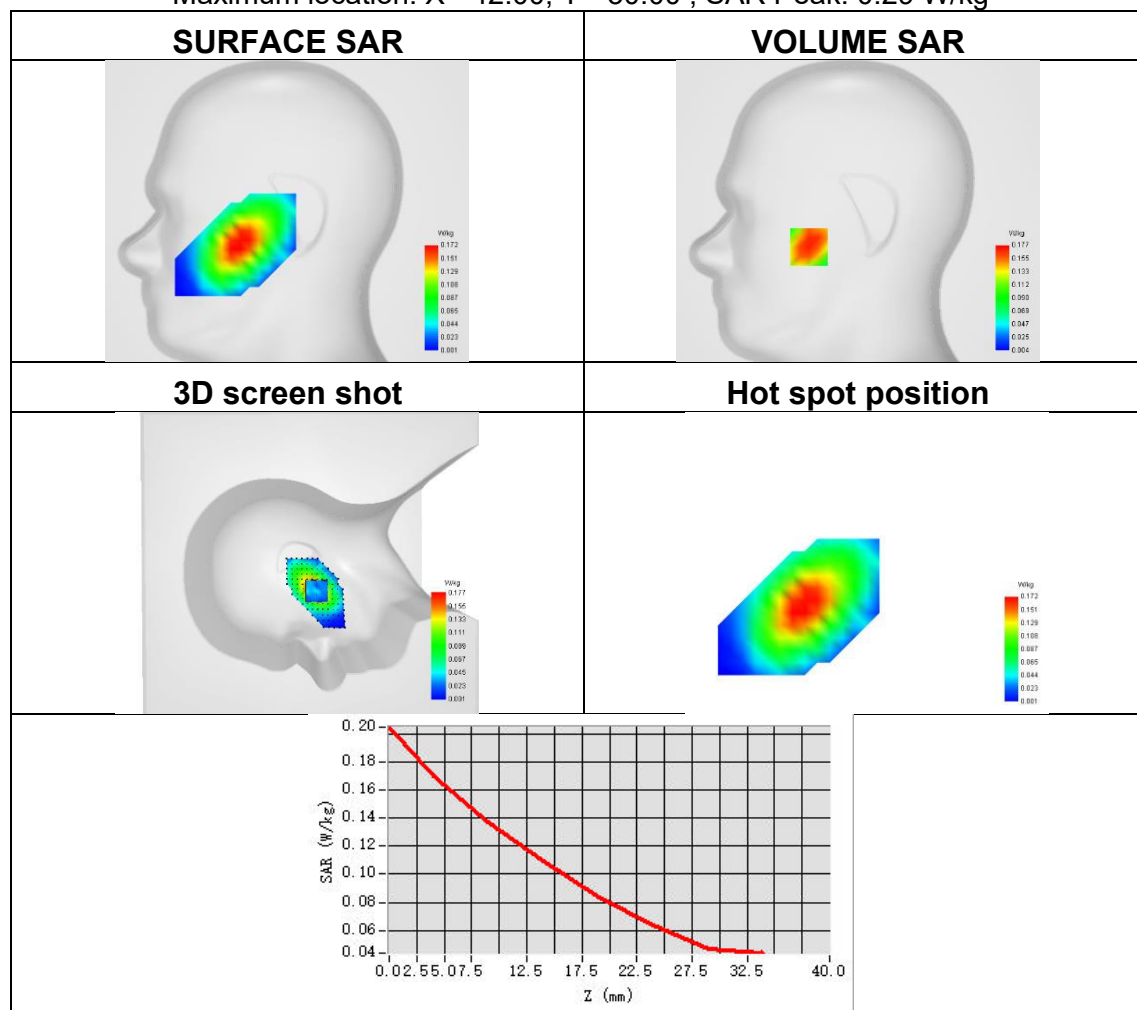
Maximum location: X=-7.00, Y=-33.00 ; SAR Peak: 0.41 W/kg



Plot 17:

Test Date	2026-01-10
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE band 12
Signal	LTE FDD
Frequency	711
SAR 10g (W/Kg)	0.124
SAR 1g (W/Kg)	0.187
ConvF	1.72
Relative permittivity	42.33
Conductivity (S/m)	0.86

Maximum location: X=-42.00, Y=-30.00 ; SAR Peak: 0.29 W/kg

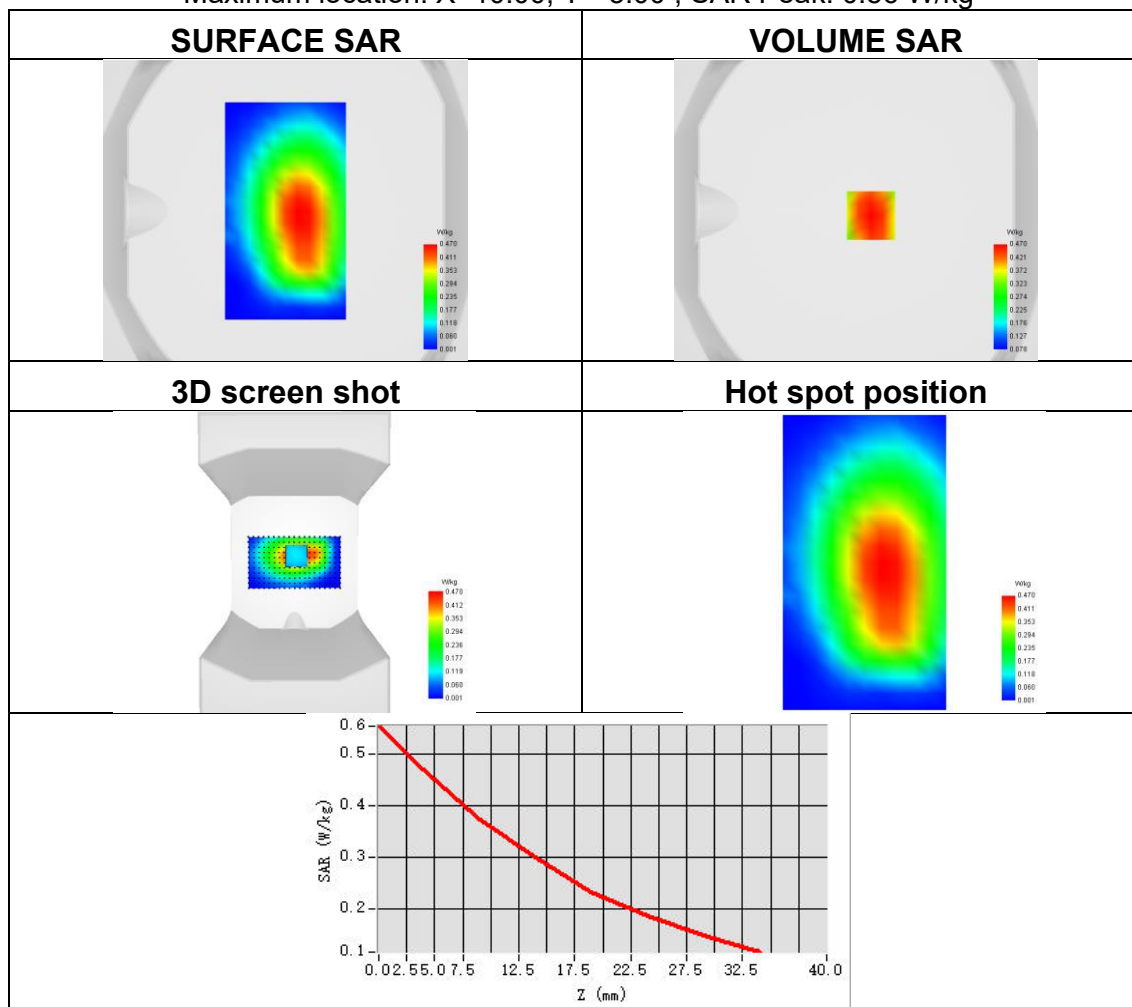




Plot 18:

Test Date	2026-01-10
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 12
Signal	LTE FDD
Frequency	711
SAR 10g (W/Kg)	0.349
SAR 1g (W/Kg)	0.463
ConvF	1.72
Relative permittivity	42.33
Conductivity (S/m)	0.86

Maximum location: X=10.00, Y=-3.00 ; SAR Peak: 0.56 W/kg

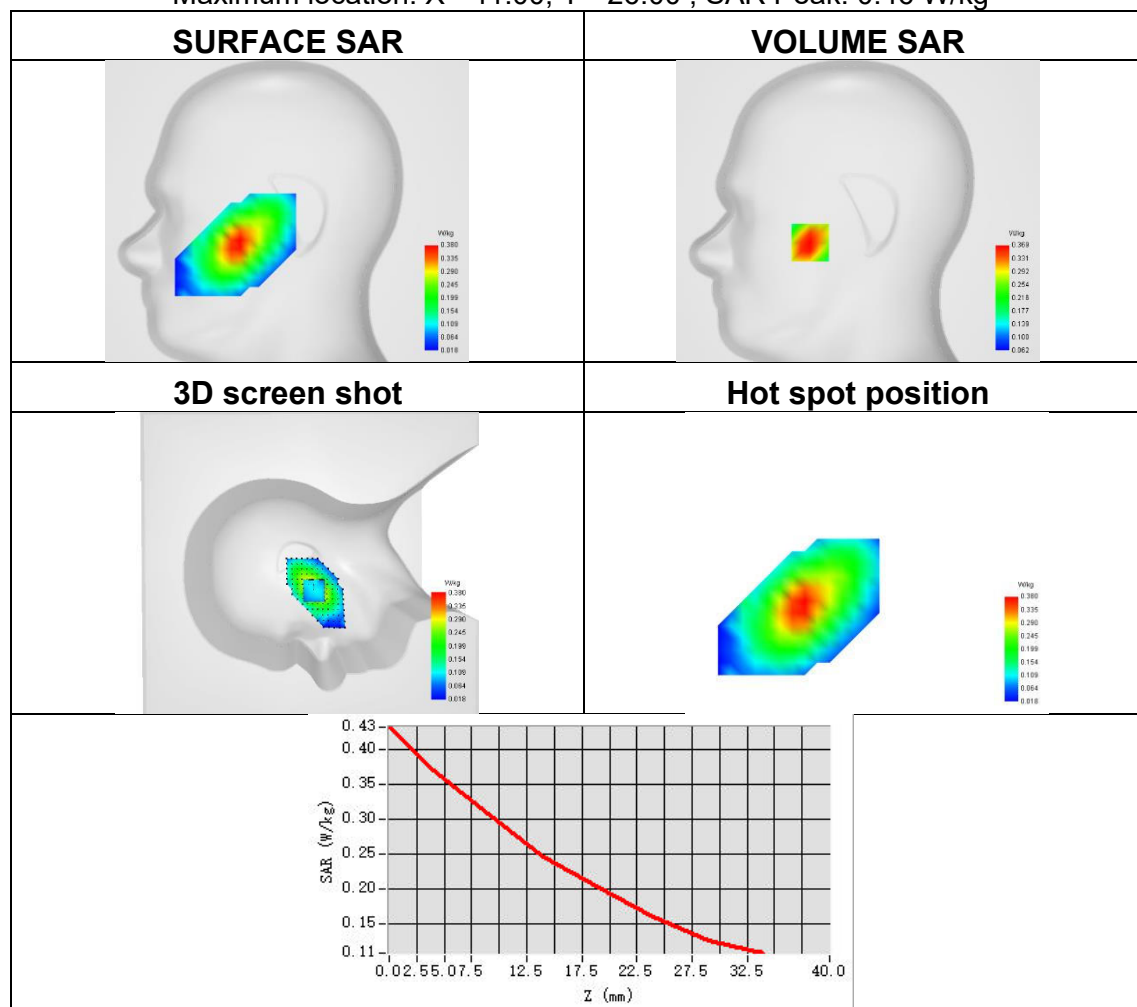




Plot 19:

Test Date	2026-01-09
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE band 13
Signal	LTE FDD
Frequency	782
SAR 10g (W/Kg)	0.267
SAR 1g (W/Kg)	0.361
ConvF	1.69
Relative permittivity	42.03
Conductivity (S/m)	0.93

Maximum location: X=-41.00, Y=-26.00 ; SAR Peak: 0.46 W/kg

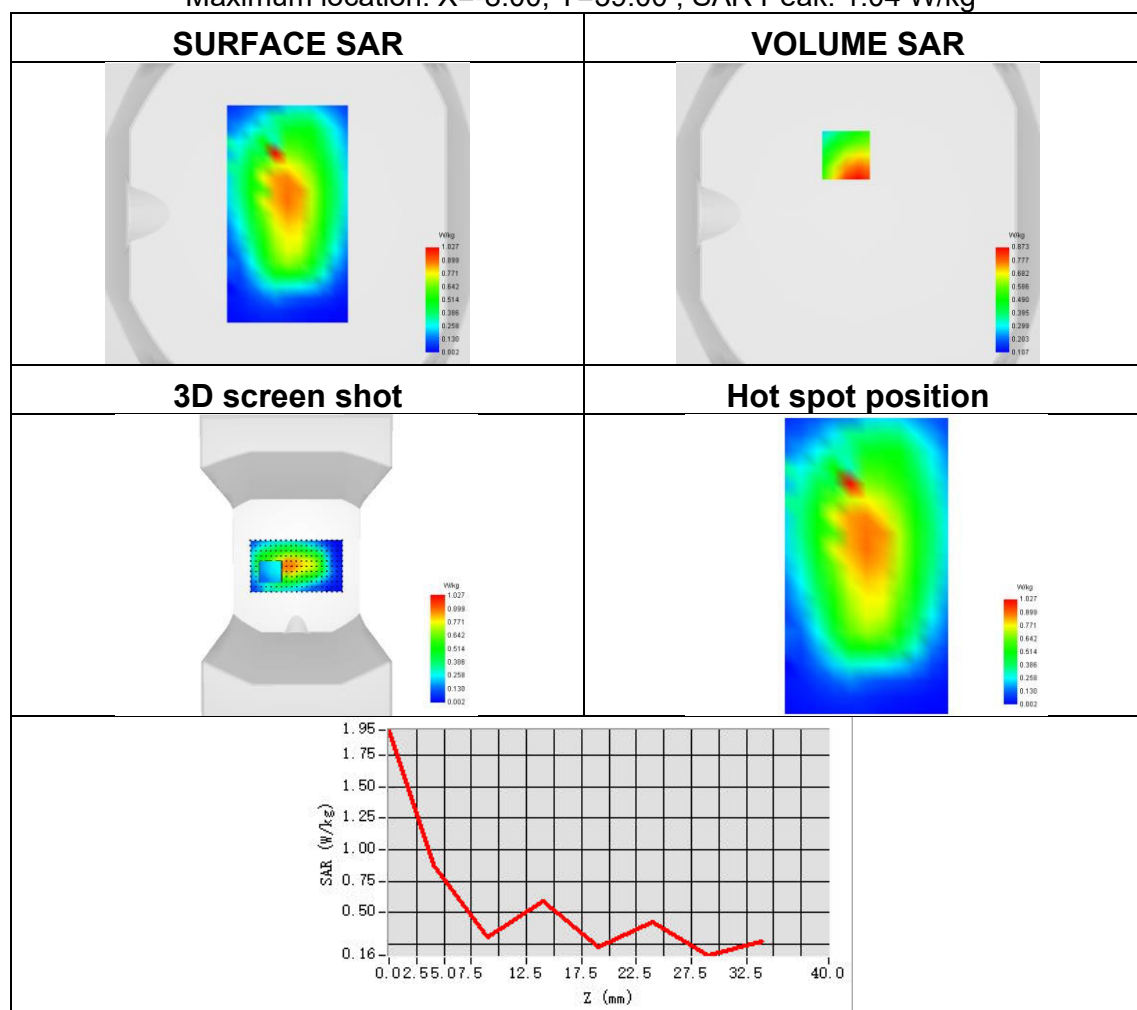




Plot 20:

Test Date	2026-01-09
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 13
Signal	LTE FDD
Frequency	782
SAR 10g (W/Kg)	0.437
SAR 1g (W/Kg)	0.790
ConvF	1.69
Relative permittivity	42.03
Conductivity (S/m)	0.93

Maximum location: X=-8.00, Y=39.00 ; SAR Peak: 1.04 W/kg

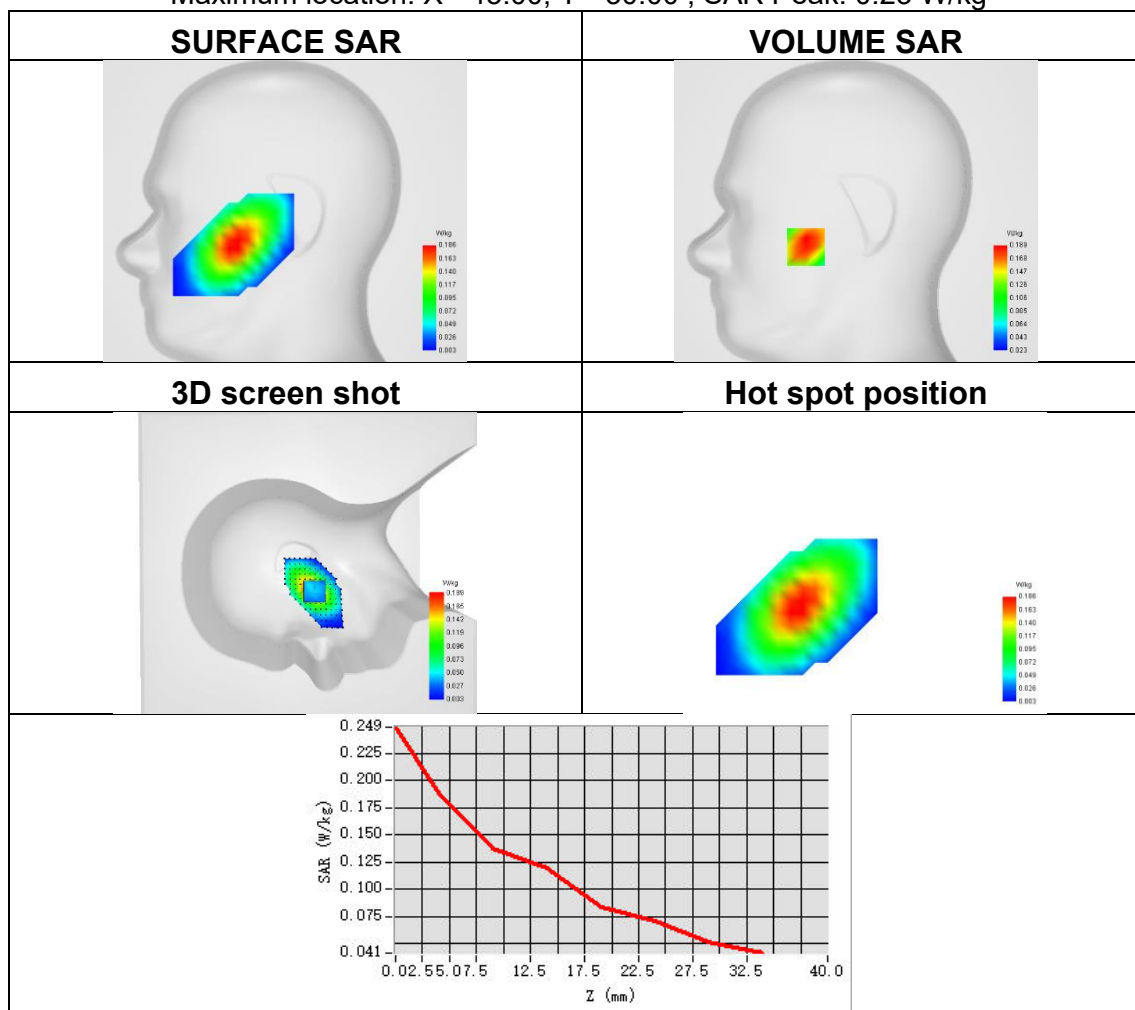




Plot 21:

Test Date	2026-01-10
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE band 17
Signal	LTE FDD
Frequency	710
SAR 10g (W/Kg)	0.135
SAR 1g (W/Kg)	0.185
ConvF	1.72
Relative permittivity	42.33
Conductivity (S/m)	0.86

Maximum location: X=-43.00, Y=-30.00 ; SAR Peak: 0.23 W/kg

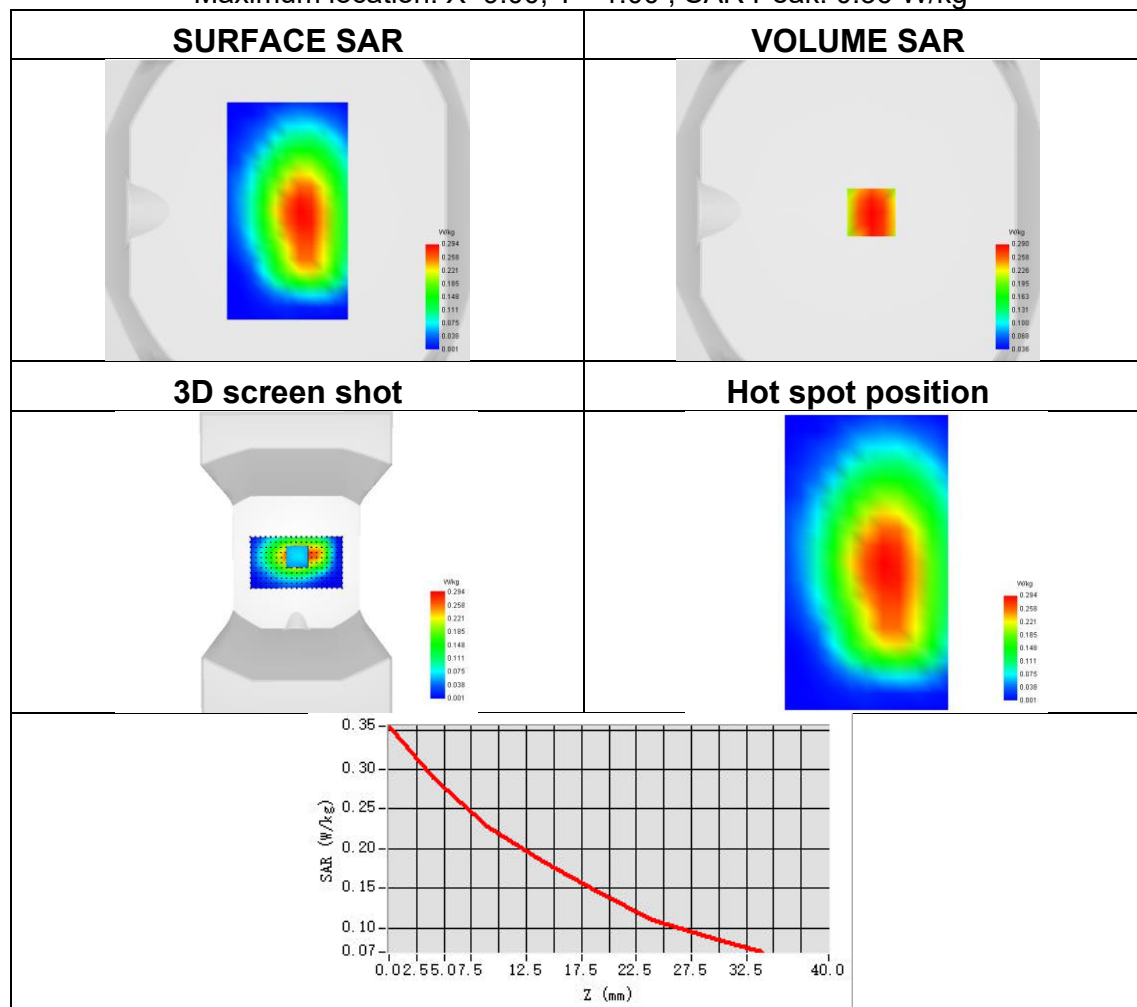




Plot 22:

Test Date	2026-01-10
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 17
Signal	LTE FDD
Frequency	710
SAR 10g (W/Kg)	0.204
SAR 1g (W/Kg)	0.286
ConvF	1.72
Relative permittivity	42.33
Conductivity (S/m)	0.86

Maximum location: X=9.00, Y=-1.00 ; SAR Peak: 0.36 W/kg

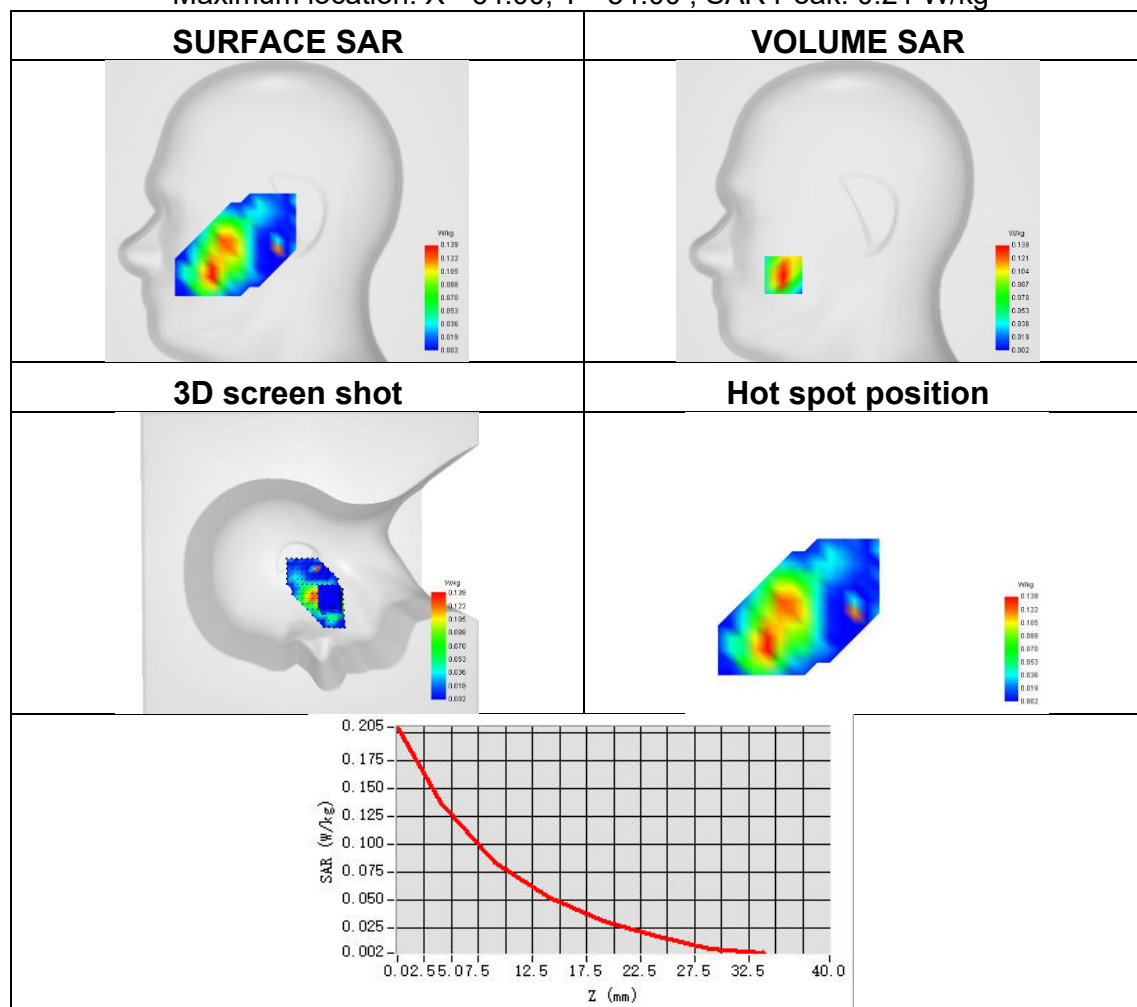




Plot 23:

Test Date	2026-01-13
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE band 66
Signal	LTE FDD
Frequency	1745
SAR 10g (W/Kg)	0.068
SAR 1g (W/Kg)	0.131
ConvF	1.95
Relative permittivity	41.04
Conductivity (S/m)	1.35

Maximum location: X=-64.00, Y=-54.00 ; SAR Peak: 0.21 W/kg

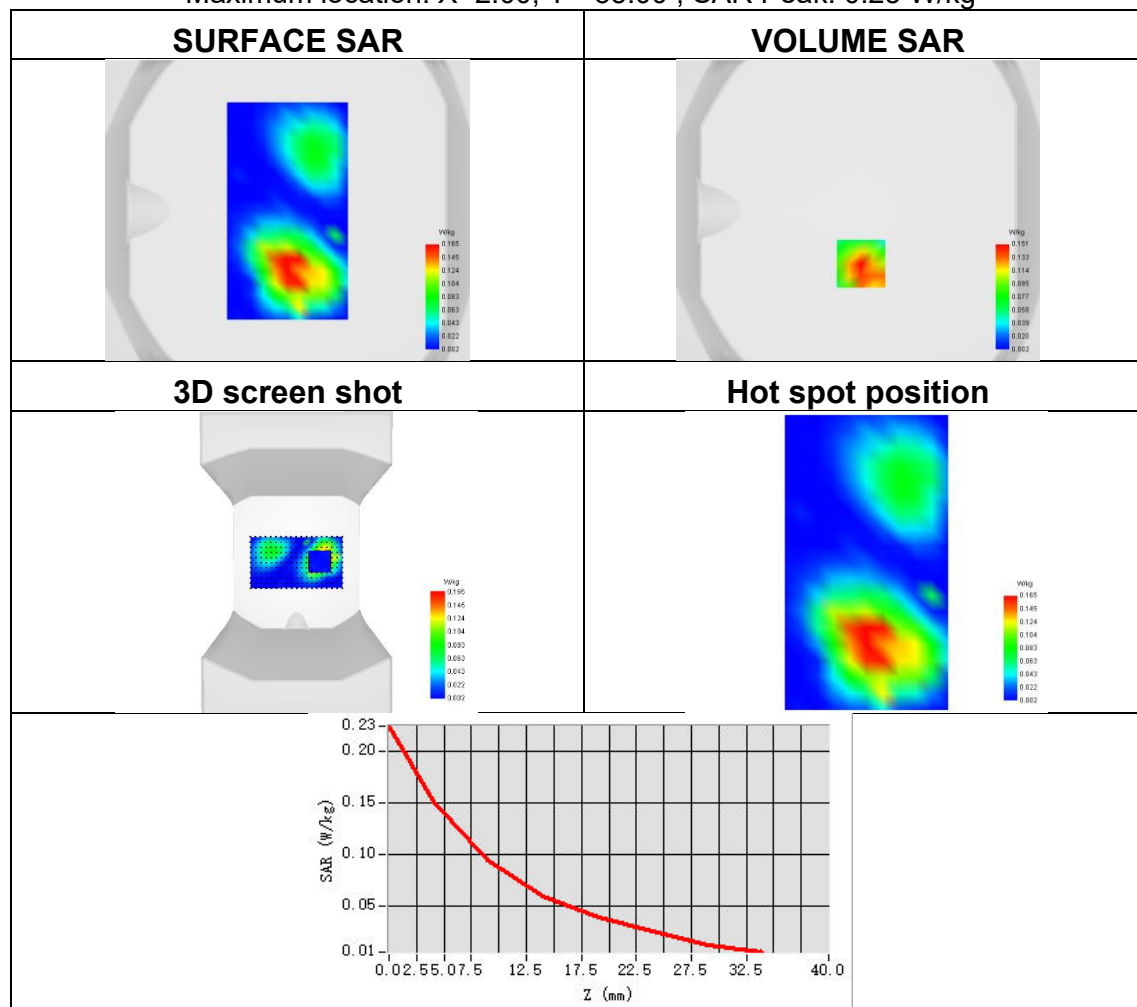




Plot 24:

Test Date	2026-01-13
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 66
Signal	LTE FDD
Frequency	1745
SAR 10g (W/Kg)	0.080
SAR 1g (W/Kg)	0.142
ConvF	1.95
Relative permittivity	41.04
Conductivity (S/m)	1.35

Maximum location: X=2.00, Y=-35.00 ; SAR Peak: 0.23 W/kg

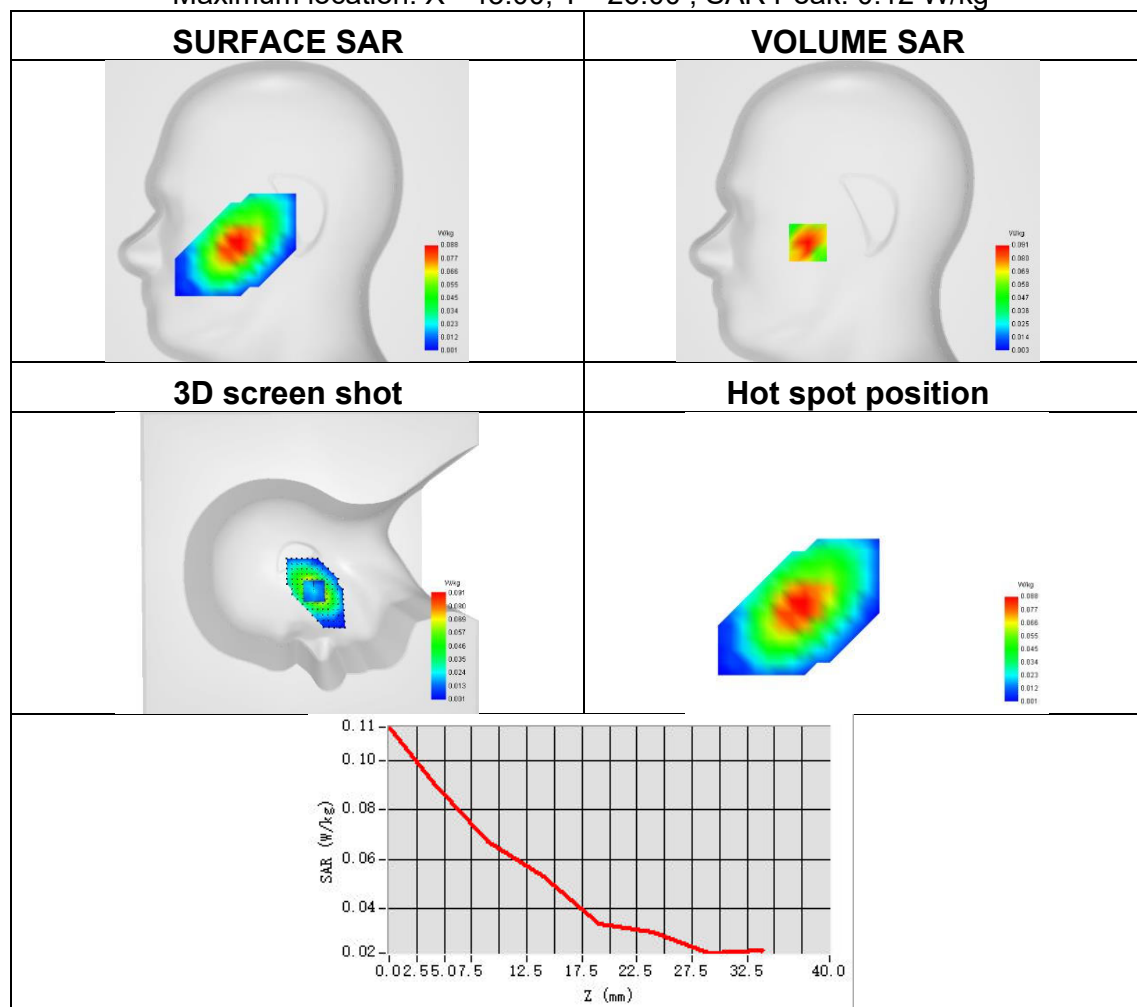




Plot 25:

Test Date	2026-01-10
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE band 71
Signal	LTE FDD
Frequency	683
SAR 10g (W/Kg)	0.060
SAR 1g (W/Kg)	0.090
ConvF	1.72
Relative permittivity	42.33
Conductivity (S/m)	0.86

Maximum location: X=-43.00, Y=-26.00 ; SAR Peak: 0.12 W/kg

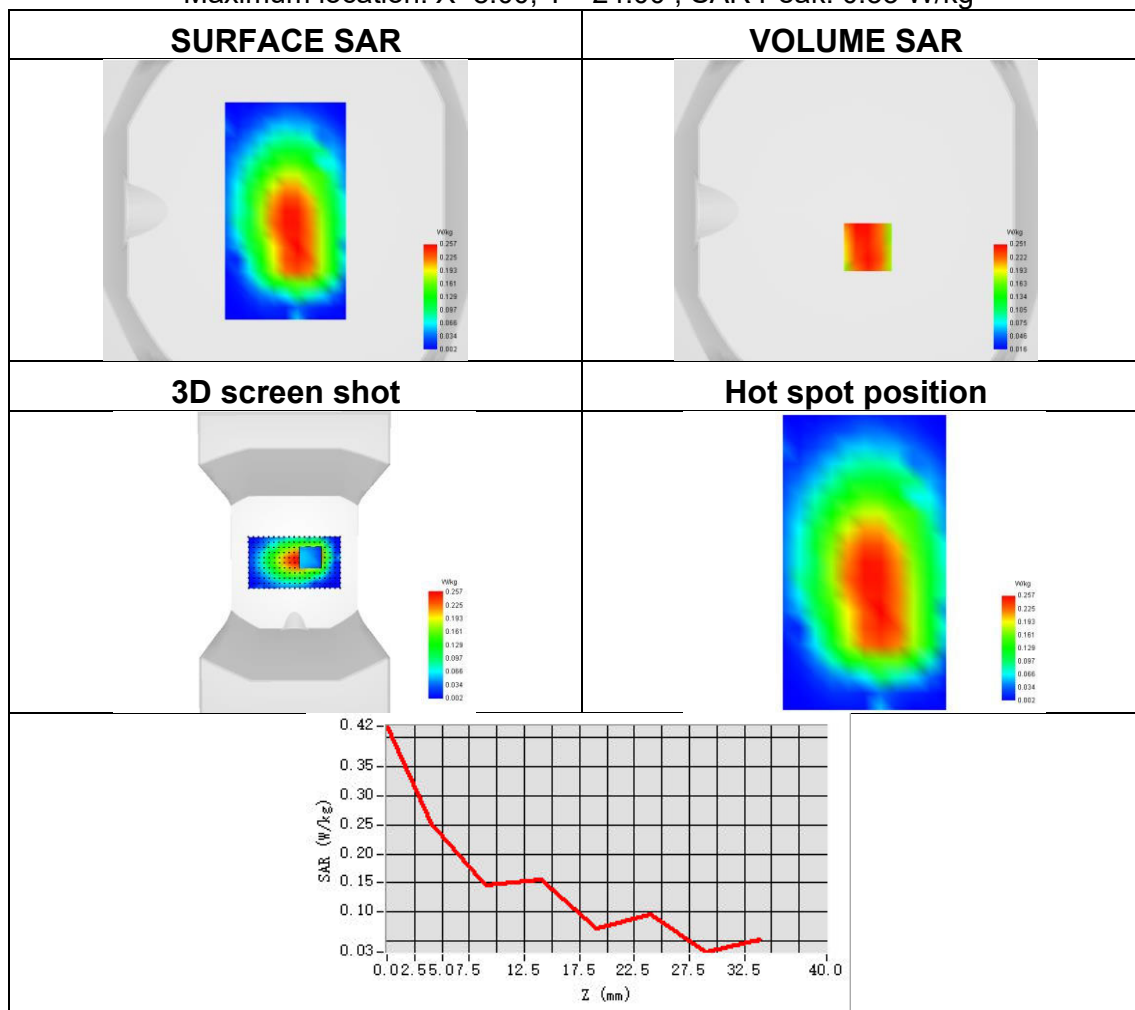




Plot 26:

Test Date	2026-01-13
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 71
Signal	LTE FDD
Frequency	683
SAR 10g (W/Kg)	0.149
SAR 1g (W/Kg)	0.256
ConvF	1.72
Relative permittivity	42.33
Conductivity (S/m)	0.86

Maximum location: X=8.00, Y=-24.00 ; SAR Peak: 0.33 W/kg





Appendix C. Probe Calibration and Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※※END OF THE REPORT※※※※※