



SAR TEST REPORT

Product Name: Mobile Phone

Model Name: Bolt F1

FCC ID: 2ADR3UBF01

Issued For : UNNECTO HOLDING LIMITED

13/F HARBOUR COMMERCIAL BUILDING 122-124
CONNAUGHT ROAD CENTRAL SHEUNG WAN HK

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

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Report Number: LGT25L163HA01

Sample Received Date: Dec. 08, 2025

Date of Test Dec. 08, 2025 ~Dec. 30, 2025

Date of Issue Dec. 30, 2025

Head: 1.116 W/kg

Max. SAR (1g)
Body: 1.109 W/kg

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Revision History

Rev.	Issue Date	Contents
00	Dec. 30, 2025	Initial Issue



TEST REPORT CERTIFICATION

Applicant UNNECTO HOLDING LIMITED
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Product Name Mobile Phone
Trademark unnecto TM
Model Name Bolt F1
Sample number LGT2512159-7

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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Manager





1. General Information

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

1.1 EUT Description

Product Name	Mobile Phone		
Test Model Name	Bolt F1		
Series Number	N/A		
Model Difference	N/A		
Device Category	Portable		
Product stage	Production unit		
RF Exposure Environment	General Population / Uncontrolled		
Hardware Version	FF667-MB-V0.2		
Software Version	N/A		
Frequency Range	GSM 850: 824 ~ 849 MHz PCS 1900: 1850 ~ 1910 MHz WCDMA Band II: 1850 ~ 1910 MHz WCDMA Band IV: 1710 ~ 1755 MHz WCDMA Band V: 824 ~ 849 MHz LTE Band 2: 1850 ~ 1910 MHz LTE Band 4: 1710 ~ 1755 MHz LTE Band 5: 824 ~ 849 MHz LTE Band 7: 2500 ~ 2570 MHz LTE Band 12: 699 ~ 716 MHz LTE Band 17: 704 ~ 716 MHz (Note: Band 17 is completely within the working range of Band 12 and does not require additional testing.) LTE Band 66: 1710 ~ 1780 MHz LTE Band 71: 663 ~ 698 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 (W/ kg)
	GSM 850	1.068	1.109
	PCS 1900	0.950	0.932
	WCDMA Band II	0.624	0.631
	WCDMA Band IV	1.116	0.946
	WCDMA Band V	0.822	0.940
	LTE Band 2	0.826	0.933
	LTE Band 4	0.817	0.852
	LTE Band 5	0.607	1.038
	LTE Band 7	0.486	0.411
	LTE Band 12	0.351	0.883
	LTE Band 66	0.355	0.955
	LTE Band 71	0.405	0.848
	Bluetooth ^{Note}	0.226	0.226
1-g Sum SAR		1.342	1.335
Battery	Rated Voltage: 3.8V Capacity: 1450mAh		
Description test modes	SIM 1 and SIM 2 is a chipset unit and tested as single chipset, SIM 1 is used to tested.		



Operating Mode:	GSM: GSM Voice; GPRS/EGPRS Class 12 WCDMA: RMC, HSDPA, HSUPA Release 6 LTE: QPSK, 16QAM Bluetooth: GFSK + π /4DQPSK+8DPSK
Antenna Specification	GSM/WCDMA/LTE: PIFA Antenna Bluetooth: Monopole 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	Not 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 D01 v03r01	SAR Measurement Procedures for 3G Devices
8	FCC KDB 941225 D05 v02r05	SAR for LTE Devices
9	FCC KDB 648474 D04 v01r03	SAR Evaluation Considerations for Wireless Handsets

(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

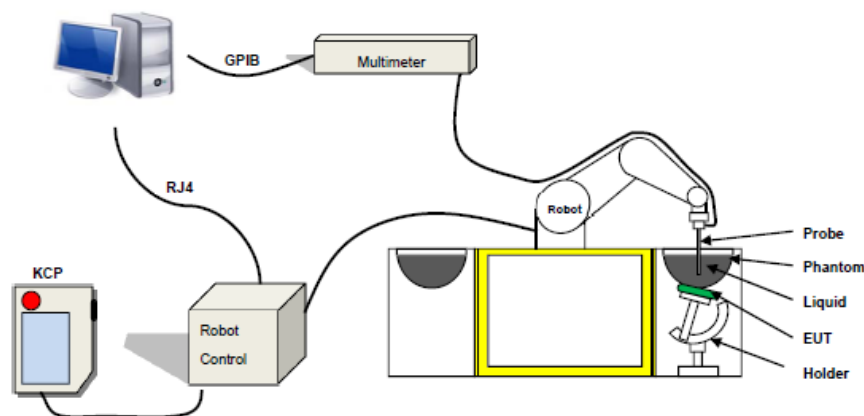
$$SAR = \frac{\sigma E^2}{\rho}$$

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.

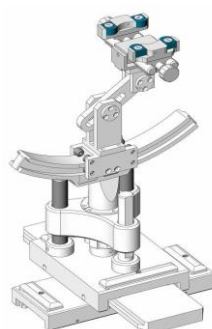


Figure-SN 06/22 SAM 148



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]					
2025-12-22	20.5	47	750	20.3	Permittivity	41.90	42.76	2.05	±5
					Conductivity	0.89	0.91	2.25	±5
2025-12-12	22.7	46	835	22.5	Permittivity	41.50	41.89	0.94	±5
					Conductivity	0.90	0.89	-1.11	±5
2025-12-10	23.6	53	835	23.4	Permittivity	41.50	42.19	1.66	±5
					Conductivity	0.90	0.88	-2.22	±5
2025-12-23	22.4	57	1800	22	Permittivity	40.00	40.68	1.70	±5
					Conductivity	1.40	1.44	2.86	±5
2025-12-21	21.5	43	1800	21.2	Permittivity	40.00	40.45	1.13	±5
					Conductivity	1.40	1.41	0.71	±5
2025-12-11	22	56	1900	21.7	Permittivity	40.00	40.94	2.35	±5
					Conductivity	1.40	1.37	-2.14	±5
2025-12-23	23.4	60	2450	23.1	Permittivity	39.20	40.03	2.12	±5
					Conductivity	1.80	1.82	1.11	±5
2025-12-23	23.4	59	2450	23.1	Permittivity	39.00	39.75	1.92	±5
					Conductivity	1.96	1.98	1.02	±5

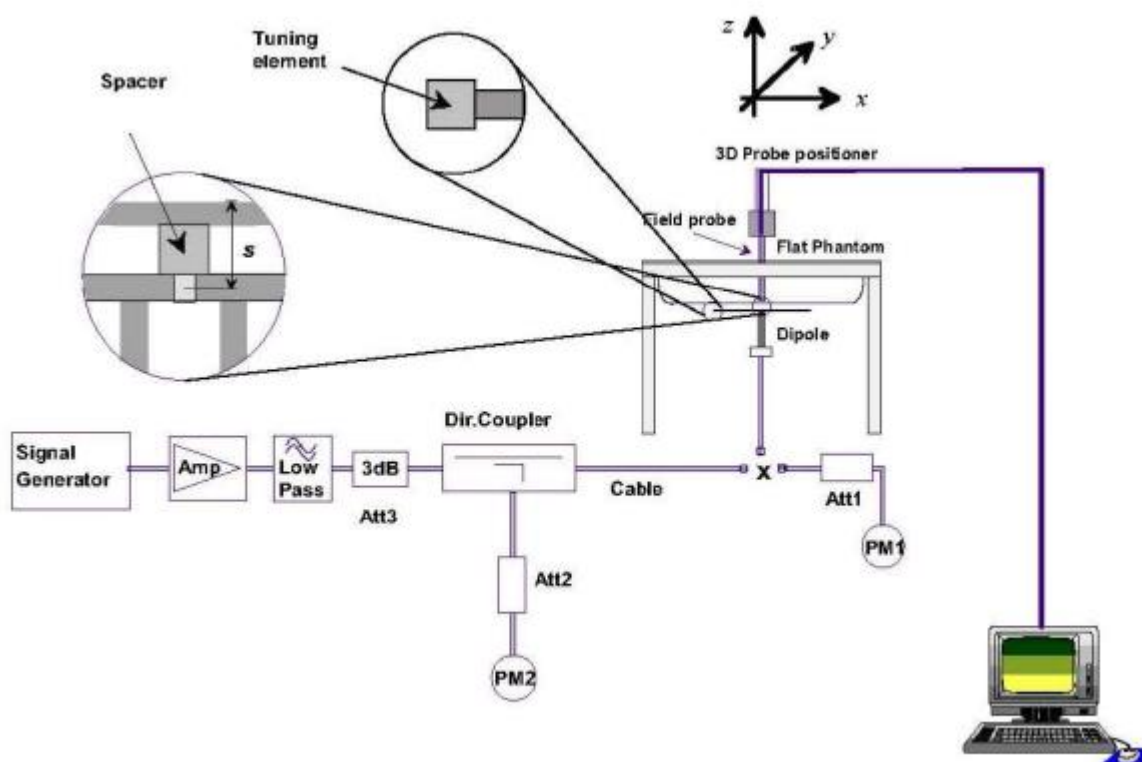


5. SAR System Validation

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)	(%)
2025-12-22	750	100	0.863	8.63	8.51	1.41	10
2025-12-12	835	100	0.968	9.68	9.63	0.52	10
2025-12-10	835	100	0.980	9.80	9.63	1.77	10
2025-12-23	1800	100	3.632	36.32	36.60	-0.77	10
2025-12-21	1800	100	3.625	36.25	36.60	-0.96	10
2025-12-11	1900	100	4.035	40.35	40.20	0.37	10
2025-12-23	2450	100	5.327	53.27	52.98	0.55	10
2025-12-23	2600	100	5.622	56.22	56.15	0.12	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

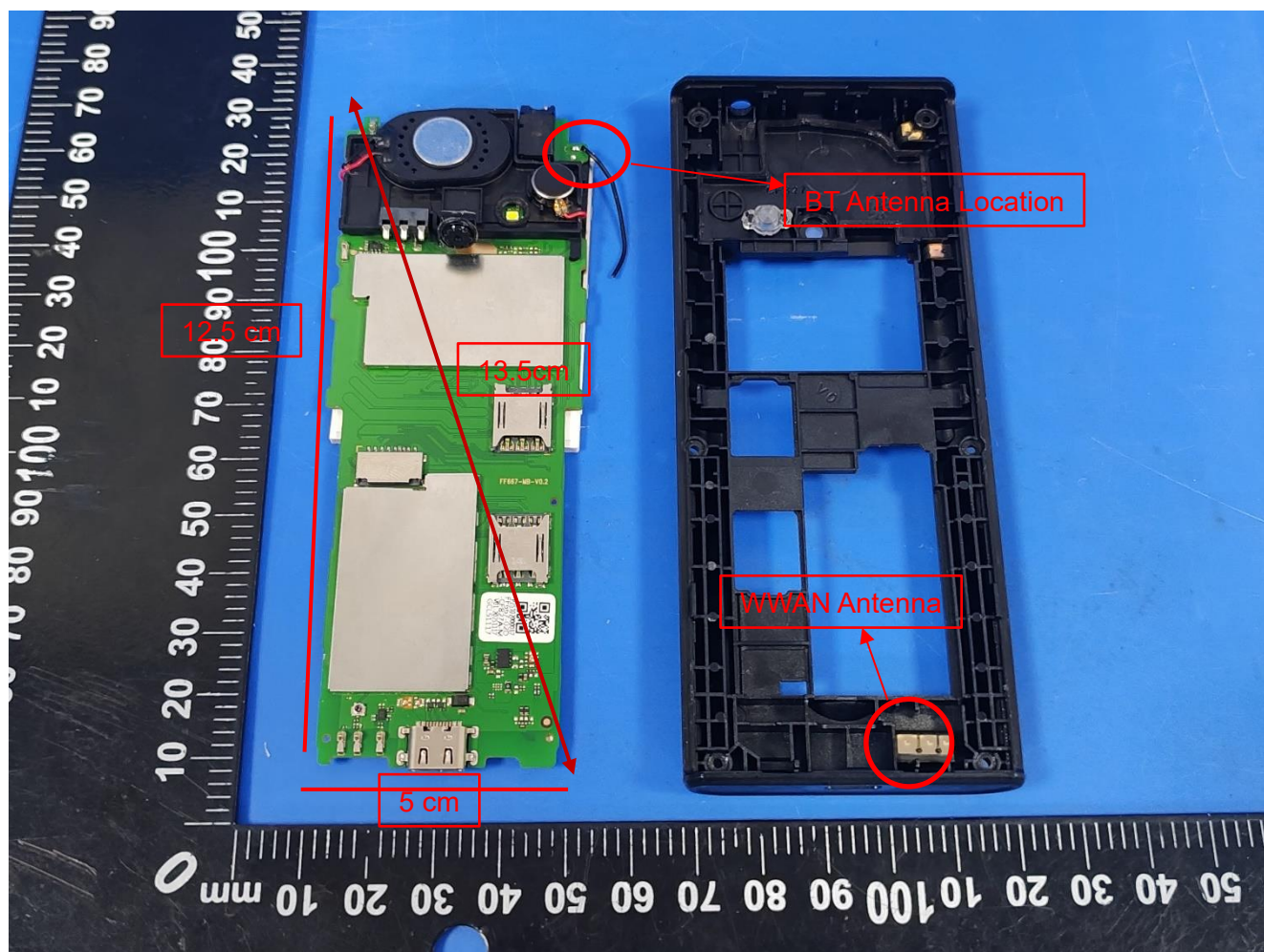
First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan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

Top side



**Bottom side
(Front view)**

Antenna Separation Distance(mm)						
ANT	Back Side	Front Side	Left Side	Right Side	Top Side	Bottom Side
BT	≤5	≤5	≤5	40	≤5	100
WWAN	≤5	≤5	≤5	≤5	110	≤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	GSM850	PCS1900	WCDMA II	WCDMA IV	WCDMA V
	Calculated Frequency (MHz)	848.8	1850.2	1852.4	1712.6	826.4
	Maximum Turn-up power (dBm)	30.2	30.7	18.5	21.2	19.5
	Maximum rated power(mW)	1047.13	1174.90	70.79	131.83	89.13
Back Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.28	11.03	11.02	11.46	16.50
	Testing required?	YES	YES	YES	YES	YES
Front Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.28	11.03	11.02	11.46	16.50
	Testing required?	YES	YES	YES	YES	YES
Left Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.28	11.03	11.02	11.46	16.50
	Testing required?	YES	YES	YES	YES	YES
Right Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.28	11.03	11.02	11.46	16.50
	Testing required?	YES	YES	YES	YES	YES
Top Edge	Separation distance (mm)	110	110	110	110	110
	exclusion threshold(mW)	502.33	710.28	710.21	714.62	495.56
	Testing required?	YES	YES	NO	NO	NO
Bottom Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.28	11.03	11.02	11.46	16.50
	Testing required?	YES	YES	YES	YES	YES



Exposure Position	Wireless Interface	LTE Band 2	LTE Band 4	LTE Band 5	LTE Band 7	LTE Band 12
	Calculated Frequency (MHz)	1900	1720	844	2535	704
	Maximum Turn-up power (dBm)	23.6	24.2	24.5	24.5	24.3
	Maximum rated power(mW)	229.09	263.03	281.84	281.84	269.15
Back Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	10.88	11.44	16.33	9.42	17.88
	Testing required?	YES	YES	YES	YES	YES
Front Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	10.88	11.44	16.33	9.42	17.88
	Testing required?	YES	YES	YES	YES	YES
Left Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	10.88	11.44	16.33	9.42	17.88
	Testing required?	YES	YES	YES	YES	YES
Right Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	10.88	11.44	16.33	9.42	17.88
	Testing required?	YES	YES	YES	YES	YES
Top Edge	Separation distance (mm)	110	110	110	110	110
	exclusion threshold(mW)	708.82	714.37	500.88	694.21	460.37
	Testing required?	NO	NO	NO	NO	NO
Bottom Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	10.88	11.44	16.33	9.42	17.88
	Testing required?	YES	YES	YES	YES	YES



Exposure Position	Wireless Interface	LTE Band 66	LTE Band 71	BT
	Calculated Frequency (MHz)	1720	683	2402
	Maximum Turn-up power (dBm)	24.2	24.3	7.3
	Maximum rated power(mW)	263.03	269.15	5.37
Back Side	Separation distance (mm)	5	5	5
	exclusion threshold(mW)	11.44	18.15	9.68
	Testing required?	YES	YES	NO
Front Side	Separation distance (mm)	5	5	5
	exclusion threshold(mW)	11.44	18.15	9.68
	Testing required?	YES	YES	NO
Left Edge	Separation distance (mm)	5	5	5
	exclusion threshold(mW)	11.44	18.15	9.68
	Testing required?	YES	YES	NO
Right Edge	Separation distance (mm)	5	5	40
	exclusion threshold(mW)	11.44	18.15	77.43
	Testing required?	YES	YES	NO
Top Edge	Separation distance (mm)	110	110	5
	exclusion threshold(mW)	714.37	454.70	9.68
	Testing required?	NO	NO	NO
Bottom Edge	Separation distance (mm)	5	5	100
	exclusion threshold(mW)	11.44	18.15	596.78
	Testing required?	YES	YES	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 ≤ 50 mm are determined by:

$$\frac{[(\text{max.power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance,}]}{}$$



mm)]*[$\sqrt{f(\text{GHz})}$] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, $f(\text{GHz})$ 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

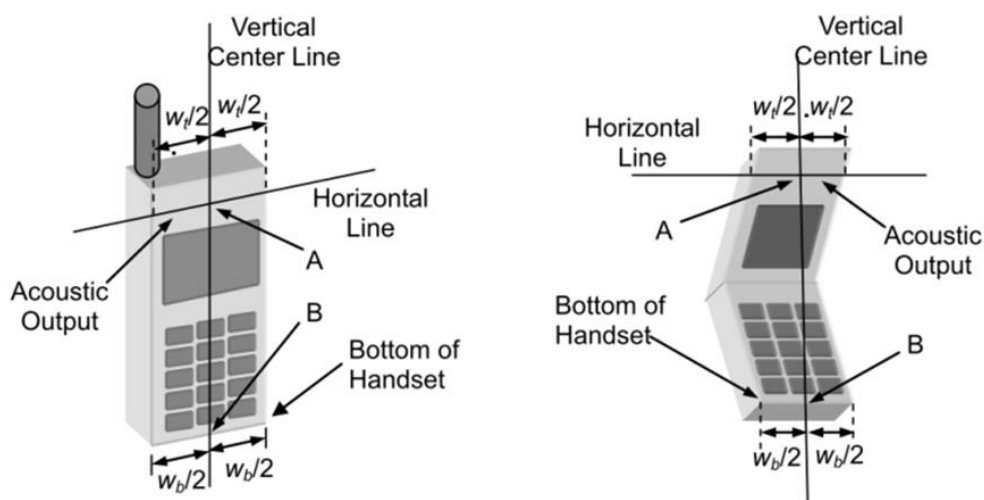
5. per KDB 447498 D01, at 100 MHz to 6GHz and for test separation distances >50mm, the SAR test exclusion threshold is determined according to the following
 - a)[threshold at 50mm in step 1]+(test separation distance -50mm)*($f(\text{MHz})/150$)]mW, at 100 MHz to 1500 MHz
 - b) [threshold at 50mm in step1]+(test separation distance -50mm) *10]mW at > 1500MHz and $\leq 6\text{GHz}$

8. EUT Test Position

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

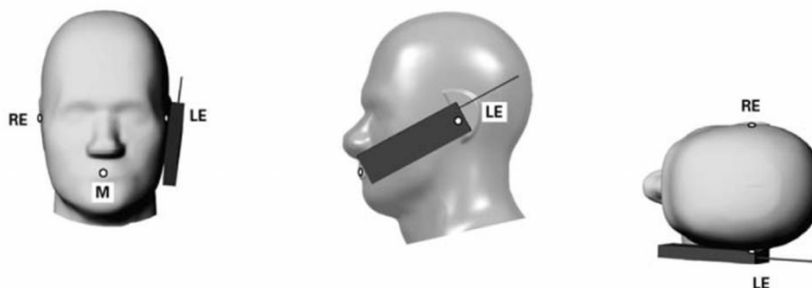
8.1 Define Two Imaginary Lines on the Handset

- (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





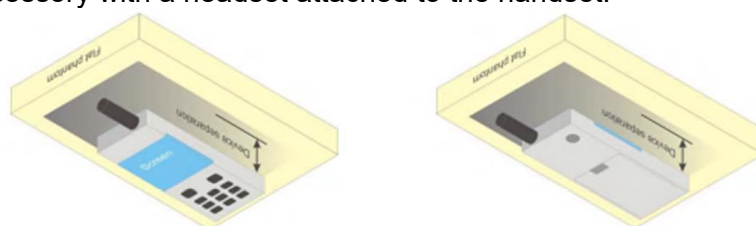
Title Position

- (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.



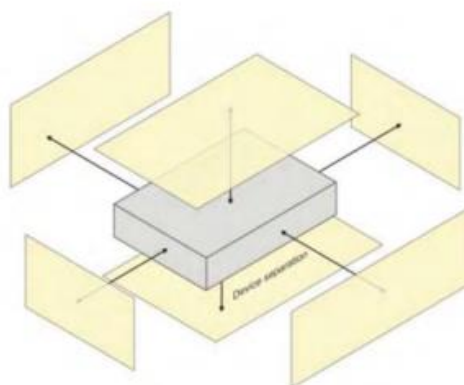
Body-worn Position Conditions:

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

Burst Average Power (dBm)						
Band	GSM 850			PCS 1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880.0	1909.8
GSM (GMSK, 1-Slot)	30.16	30	29.74	30.5	30.46	30.09
GPRS (GMSK, 1-Slot)	30.18	30	29.73	30.6	30.58	30.21
GPRS (GMSK, 2-Slot)	28	27.88	27.5	28.39	28.11	27.36
GPRS (GMSK, 3-Slot)	25.6	25.5	25.16	26.72	26.35	25.68
GPRS (GMSK, 4-Slot)	23.32	23.3	23.1	24.53	24.25	23.45
EGPRS (8PSK, 1-Slot)	28.65	28.3	28.56	27.79	27.53	27.43
EGPRS (8PSK, 2-Slot)	27.52	27.42	27.71	26.98	26.16	25.63
EGPRS (8PSK, 3-Slot)	24.46	24.45	24.99	24.99	24.58	24.71
EGPRS (8PSK, 4-Slot)	22.31	22.11	22.19	21.58	21.77	20.99
Remark: GPRS, CS4 coding scheme. EGPRS, MCS5 coding scheme. Multi-Slot Class 8, Support Max 4 downlink, 1 uplink, 5 working link Multi-Slot Class 10, Support Max 4 downlink, 2 uplink, 5 working link Multi-Slot Class 12, Support Max 4 downlink, 4 uplink, 5 working link						

Frame- Average Power(dBm)						
Band	GSM 850			PCS 1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880.0	1909.8
GSM (GMSK, 1-Slot)	21.13	20.97	20.71	21.47	21.43	21.06
GPRS (GMSK, 1-Slot)	21.15	20.97	20.70	21.57	21.55	21.18
GPRS (GMSK, 2-Slot)	21.98	21.86	21.48	22.37	22.09	21.34
GPRS (GMSK, 3-Slot)	21.34	21.24	20.90	22.46	22.09	21.42
GPRS (GMSK, 4-Slot)	20.31	20.29	20.09	21.52	21.24	20.44
EGPRS (8PSK, 1-Slot)	19.62	19.27	19.53	18.76	18.50	18.40
EGPRS (8PSK, 2-Slot)	21.50	21.40	21.69	20.96	20.14	19.61
EGPRS (8PSK, 3-Slot)	20.20	20.19	20.73	20.73	20.32	20.45
EGPRS (8PSK, 4-Slot)	19.30	19.10	19.18	18.57	18.76	17.98
Remark: 1. SAR testing was performed on the maximum frame-averaged power mode. 2. The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum Burst - averaged power based on time slots. The calculated method is shown as below: Frame-averaged power = Burst averaged power (1 TX Slot) – 9.03 dB Frame-averaged power = Burst averaged power (2 TX Slots) – 6.02 dB Frame-averaged power = Burst averaged power (3 TX Slots) - 4.26 dB Frame-averaged power = Burst averaged power (4 TX Slots) – 3.01 dB						



WCDMA

Band	WCDMA Band 2			WCDMA Band 4			WCDMA Band 5		
Channel	9262	9400	9538	1312	1450	1513	4132	4182	4233
Frequency (MHz)	1852.4	1880	1907.6	1712.6	1740	1752.4	826.4	836.4	846.6
RMC 12.2Kbps	18.28	18.15	18.06	21.18	20.92	20.93	19.4	19.31	19.24
HSDPA Subtest-1	18.33	18.23	18.1	21.12	20.75	20.71	19.41	19.3	19.2
HSDPA Subtest-2	17.8	17.94	17.92	20.69	20.5	20.36	19.19	19.1	19.01
HSDPA Subtest-3	17.48	17.69	17.61	20.32	20.25	20.21	19.04	18.94	18.78
HSDPA Subtest-4	17.56	17.65	17.28	20.23	19.97	20.17	18.79	18.83	18.61
HSUPA Subtest-1	18.3	18.11	17.98	20.98	20.69	20.45	19.25	19	18.91
HSUPA Subtest-2	18.23	18.09	18	20.95	20.63	20.59	19.27	19.39	19.15
HSUPA Subtest-3	17.94	17.98	17.61	20.54	20.54	20.59	19.13	18.87	18.98
HSUPA Subtest-4	18.19	18.14	18.05	20.85	20.64	20.61	19.25	19.32	19.13
HSUPA Subtest-5	17.88	17.77	17.82	20.64	20.64	20.52	18.92	19.33	18.98

According to 3GPP 25.101 sub-clause 6.2.2, the maximum output power is allowed to be reduced by following the table.

Table 6.1A: UE maximum output power with HS-DPCCH and E-DCH

UE Transmit Channel Configuration	CM (db)	MPR (db)
For all combinations of ,DPDCH,DPCCH HS-DPDCH,E-DPDCH and E-DPCCH	$0 \leq CM \leq 3.5$	$MAX(CM-1,0)$
Note: CM=1 for $\beta_c/\beta_d=12/15$, $\beta_{hs}/\beta_c=24/15$.For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.		

The device supports MPR to solve linearity issues (ACLR or SEM) due to the higher peak-to average ratios (PAR) of the HSUPA signal. This prevents saturating the full range of the TX DAC inside of device and provides a reduced power output to the RF transceiver chip according to the Cubic Metric (a function of the combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH).

When E-DPDCH channels are present the beta gains on those channels are reduced firsts to try to get the power under the allowed limit. If the beta gains are lowered as far as possible, then a hard limiting is applied at the maximum allowed level.

The SW currently recalculates the cubic metric every time the beta gains on the E-DPDCH are reduced. The cubic metric will likely get lower each time this is done .However, there is no reported reduction of maximum output power in the HSUPA mode since the device also provides a compensation for the power back-off by increasing the gain of TX_AGC in the transceiver (PA) device.

The end effect is that the DUT output power is identical to the case where there is no MPR in the device.



Bluetooth

BT				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	5.48	3.53
	39	2441	5.28	3.37
	78	2480	5.48	3.53
$\pi/4$ -QPSK(2Mbps)	0	2402	6.87	4.86
	39	2441	6.56	4.53
	78	2480	6.62	4.59
8DPSK(3Mbps)	0	2402	7.22	5.27
	39	2441	6.84	4.83
	78	2480	7.01	5.02



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	22.54	22.61	22.71
1.4	1	2		22.57	22.56	22.7
1.4	1	5		22.5	22.42	22.79
1.4	3	0		22.39	22.65	22.83
1.4	3	1		22.36	22.61	22.76
1.4	3	2		22.41	22.62	22.83
1.4	6	0		21.91	22.15	22.3
1.4	1	0	16-QAM	22.81	22.17	22.62
1.4	1	2		22.8	22.15	22.61
1.4	1	5		22.86	22.33	22.51
1.4	3	0		22.12	22.04	22.74
1.4	3	1		22.14	22.09	22.68
1.4	3	2		22	22.3	22.67
1.4	6	0		20.46	20.95	20.77
3	1	0	QPSK	22.31	22.59	22.72
3	1	7		22.41	22.66	22.77
3	1	14		22.51	22.52	22.84
3	8	0		21.96	22.17	22.45
3	8	4		21.84	22.19	22.27
3	8	7		21.96	22.41	22.24
3	15	0		21.94	22.13	22.34
3	1	0	16-QAM	22.27	22.44	23.2
3	1	7		22.29	22.4	22.9
3	1	14		22.38	22.59	22.91
3	8	0		20.29	20.77	20.49
3	8	4		20.48	20.81	20.58
3	8	7		20.62	20.75	20.57
3	15	0		20.54	20.76	20.49



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.41	22.6	22.64
5	1	12		22.41	22.57	22.73
5	1	24		22.52	22.54	22.74
5	12	0		21.93	22.12	22.52
5	12	6		22.05	22.17	22.43
5	12	11		22.07	22.27	22.27
5	25	0		22.06	22.1	22.56
5	1	0	16-QAM	21.87	22.32	21.88
5	1	12		22.04	22.29	22.2
5	1	24		22.06	22.32	21.96
5	12	0		20.34	20.66	20.36
5	12	6		20.75	20.8	20.51
5	12	11		20.86	20.65	20.44
5	25	0		20.53	20.61	20.47
10	1	0	QPSK	22.44	22.91	22.68
10	1	24		22.54	22.66	22.72
10	1	49		22.67	22.63	22.79
10	25	0		22.01	22.12	22.47
10	25	12		21.99	22.17	22.17
10	25	24		22.11	22.08	22.62
10	50	0		22.06	22.11	22.24
10	1	0	16-QAM	21.9	23.04	22.9
10	1	24		22.06	23.21	22.94
10	1	49		22.15	23.47	22.96
10	25	0		20.46	20.88	20.63
10	25	12		20.89	20.94	20.57
10	25	24		21.26	21.16	20.81



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.46	22.63	22.53
15	1	37		22.68	22.54	22.67
15	1	74		22.78	22.5	22.67
15	36	0		22.05	22.15	22.16
15	36	18		22.01	22.05	22.59
15	36	39		22.12	22.16	22.51
15	75	0		22.05	22.14	22.52
15	1	0	16-QAM	22.98	22.87	22.85
15	1	38		23.19	22.72	23.22
15	1	75		23.33	22.7	23.08
15	27	0		20.58	20.88	20.89
15	27	13		20.9	20.75	20.19
15	27	27		20.81	20.92	20.19
20	1	0	QPSK	22.5	22.55	22.72
20	1	49		22.79	22.49	22.9
20	1	99		22.82	22.41	23.5
20	50	0		21.99	22.41	22.15
20	50	24		22.11	22.05	22.09
20	50	49		22.13	22.31	22.25
20	100	0		22.14	22.26	22.17
20	1	0	16-QAM	22.17	21.57	22.45
20	1	49		22.45	21.56	22.27
20	1	99		22.85	21.46	22.49
20	27	0		20.38	20.92	21.29
20	27	13		20.74	20.65	20.55
20	27	27		20.84	21.58	20.72



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.57	23.41	23.77
1.4	1	2		23.59	23.43	23.71
1.4	1	5		23.58	23.38	23.76
1.4	3	0		23.5	23.5	23.55
1.4	3	1		23.53	23.41	23.49
1.4	3	2		23.52	23.51	23.42
1.4	6	0		23.02	22.97	23.12
1.4	1	0	16-QAM	23.91	23.62	23.55
1.4	1	2		23.93	23.71	23.43
1.4	1	5		23.88	23.7	23.56
1.4	3	0		23.22	23	23.34
1.4	3	1		23.2	23.05	23.31
1.4	3	2		23.21	23.01	23.27
1.4	6	0		22.4	21.91	22.26
3	1	0	QPSK	23.54	23.46	23.77
3	1	7		23.56	23.41	23.62
3	1	14		23.46	23.47	23.79
3	8	0		22.97	22.97	23.02
3	8	4		22.94	23.03	23.06
3	8	7		22.9	23.02	23.02
3	15	0		22.97	23.01	23.03
3	1	0	16-QAM	23.52	23.36	23.63
3	1	7		23.33	23.55	23.68
3	1	14		23.4	23.68	23.68
3	8	0		22.87	22.94	23.02
3	8	4		22.88	23	23.07
3	8	7		22.85	23.03	23.08
3	15	0		22.99	23.03	23.08



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.49	23.4	23.38
5	1	12		23.41	23.42	23.39
5	1	24		23.4	23.5	23.37
5	12	0		23.03	22.99	22.91
5	12	6		22.97	22.97	22.9
5	12	11		22.92	22.94	22.93
5	25	0		22.92	23.01	22.95
5	1	0	16-QAM	23.13	22.61	23.08
5	1	12		23.03	22.63	23.09
5	1	24		23.07	22.65	23.13
5	12	0		22.27	22.24	22.03
5	12	6		21.85	21.87	21.95
5	12	11		21.86	21.88	21.96
5	25	0		22.1	22.05	21.92
10	1	0	QPSK	23.47	23.32	23.66
10	1	24		23.33	23.46	23.63
10	1	49		23.34	23.51	23.57
10	25	0		22.92	22.89	22.99
10	25	12		22.94	22.99	23.07
10	25	24		22.83	22.97	22.97
10	50	0		22.95	23.03	23.12
10	1	0	16-QAM	23.97	23.56	23.99
10	1	24		23.91	23.7	23.94
10	1	49		23.91	23.69	23.92
10	25	0		21.99	22.43	22.13
10	25	12		22.32	22.08	22.15
10	25	24		21.84	22.45	22.02



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.43	23.42	23.72
15	1	37		23.32	23.6	23.59
15	1	74		23.25	23.73	23.63
15	36	0		22.93	22.84	23.11
15	36	18		22.93	22.99	23.03
15	36	39		22.86	22.98	22.92
15	75	0		22.88	23.01	22.89
15	1	0	16-QAM	24.01	22.8	23.75
15	1	38		23.92	23.04	23.64
15	1	75		23.84	23.17	23.72
15	27	0		21.9	21.84	22.21
15	27	13		21.8	21.98	22.2
15	27	27		21.84	22.46	22.09
20	1	0	QPSK	24.1	23.6	23.46
20	1	49		24.08	23.69	23.52
20	1	99		23.99	23.69	23.46
20	50	0		22.15	22.61	22.1
20	50	24		22.09	22.24	21.99
20	50	49		21.85	22.23	21.93
20	100	0		22.38	21.99	21.99
20	1	0	16-QAM	22.67	22.87	23.12
20	1	49		22.52	23.07	23.27
20	1	99		22.59	23.24	23.37
20	27	0		22.03	22.34	22.12
20	27	13		22.39	22.16	21.98
20	27	27		22.38	22.29	22.01



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.57	23.39	23.86
1.4	1	2		23.44	23.5	23.93
1.4	1	5		23.42	23.39	23.91
1.4	3	0		23.29	23.39	23.84
1.4	3	1		23.38	23.48	23.86
1.4	3	2		23.38	23.41	23.93
1.4	6	0		22.87	23.35	23.42
1.4	1	0	16-QAM	23.28	23.27	23.49
1.4	1	2		23.18	23.46	23.73
1.4	1	5		23.39	23.63	23.81
1.4	3	0		22.76	22.82	23.04
1.4	3	1		22.73	23.22	23.24
1.4	3	2		22.86	23.04	23.26
1.4	6	0		22.89	23.24	23.29
3	1	0	QPSK	23.32	23.31	23.89
3	1	7		23.25	23.45	23.81
3	1	14		23.23	23.44	23.95
3	8	0		22.9	22.98	23.32
3	8	4		22.82	23.22	23.28
3	8	7		22.83	23.36	23.51
3	15	0		22.76	23.31	23.23
3	1	0	16-QAM	23.92	23.63	24.18
3	1	7		23.88	24.09	24.18
3	1	14		23.88	24.08	24.18
3	8	0		21.76	21.9	22.72
3	8	4		21.78	22.61	22.7
3	8	7		21.65	22.48	22.66
3	15	0		21.97	22.37	22.72



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.32	23.34	23.66
5	1	12		23.21	23.33	23.71
5	1	24		23.18	23.52	23.79
5	12	0		22.86	22.84	23.3
5	12	6		22.87	23.23	23.26
5	12	11		22.83	23.37	23.26
5	25	0		22.86	23.36	23.35
5	1	0	16-QAM	22.96	22.58	23.17
5	1	12		23	22.99	23.32
5	1	24		22.97	22.81	23.32
5	12	0		21.81	21.69	22.24
5	12	6		21.76	22.25	22.72
5	12	11		21.69	22.3	22.66
5	25	0		21.9	22.47	22.64
10	1	0	QPSK	24.02	23.75	24.3
10	1	24		24	24.11	24.35
10	1	49		23.94	24.05	24.43
10	25	0		23.4	23.41	23.66
10	25	12		23.2	23.38	23.61
10	25	24		23.19	23.42	23.62
10	50	0		22.01	22.31	22.9
10	1	0	16-QAM	23.94	23.59	23.4
10	1	24		23.83	24	23.57
10	1	49		23.88	23.91	23.69
10	25	0		21.8	21.87	22.2
10	25	12		21.83	22.43	22.64
10	25	24		21.83	22.04	22.75



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.36	22.87	23.09
5	1	12		23.41	22.97	23.04
5	1	24		23.46	23.03	23.05
5	12	0		22.96	22.6	22.63
5	12	6		22.99	22.72	22.65
5	12	11		22.93	22.7	22.56
5	25	0		23.01	22.74	22.68
5	1	0	16-QAM	22.68	22.7	22.62
5	1	12		22.72	22.74	22.69
5	1	24		22.8	22.76	22.68
5	12	0		21.87	21.76	21.57
5	12	6		21.88	21.72	21.51
5	12	11		21.95	21.69	21.53
5	25	0		22.1	21.72	21.76
10	1	0	QPSK	23.38	23.03	23.13
10	1	24		23.49	23.1	23.05
10	1	49		23.55	23.19	23.16
10	25	0		22.91	22.68	22.67
10	25	12		22.96	22.68	22.56
10	25	24		22.95	22.67	22.66
10	50	0		23.07	22.58	22.58
10	1	0	16-QAM	24.17	23.44	23.13
10	1	24		24.17	23.49	23.15
10	1	49		24.19	23.59	23.2
10	25	0		22.09	21.79	21.81
10	25	12		22.07	21.79	21.78
10	25	24		22.16	21.78	21.8



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.47	23.14	23.2
15	1	37		23.44	23.19	23.16
15	1	74		23.61	23.27	23.18
15	36	0		23.03	22.59	22.7
15	36	18		23.02	22.76	22.7
15	36	39		23.03	22.77	22.67
15	75	0		23.06	22.67	22.62
15	1	0	16-QAM	24.18	22.71	23.55
15	1	38		24.25	22.77	23.49
15	1	75		23.46	22.87	23.51
15	27	0		22.16	21.73	21.97
15	27	13		22.28	21.78	21.87
15	27	27		22.27	21.8	21.86
20	1	0	QPSK	23.34	23.18	23.38
20	1	49		23.38	23.24	23.45
20	1	99		23.43	24.33	23.35
20	50	0		22.98	22.64	22.82
20	50	24		23	22.61	22.83
20	50	49		23	22.86	22.6
20	100	0		23.03	22.72	22.81
20	1	0	16-QAM	22.84	23.09	22.74
20	1	49		22.81	22.98	22.69
20	1	99		22.89	23.14	22.65
20	27	0		22.19	21.89	21.75
20	27	13		22.23	21.96	21.83
20	27	27		22.22	21.91	21.71



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.67	23.52	23.81
1.4	1	2		23.69	23.64	23.79
1.4	1	5		23.67	23.59	23.82
1.4	3	0		23.78	23.57	23.67
1.4	3	1		23.68	23.6	23.71
1.4	3	2		23.65	23.71	23.76
1.4	6	0		23.43	23.21	23.33
1.4	1	0	16-QAM	23.56	23.53	23.53
1.4	1	2		23.55	23.6	23.71
1.4	1	5		23.65	23.56	23.9
1.4	3	0		23.08	23.18	23.12
1.4	3	1		23.08	23.16	22.98
1.4	3	2		23.09	23	23.25
1.4	6	0		23.14	23.14	23.16
3	1	0	QPSK	23.6	23.57	23.77
3	1	7		23.51	23.62	23.81
3	1	14		23.64	23.64	23.9
3	8	0		23.14	23.08	23.19
3	8	4		23.18	23.06	23.22
3	8	7		23.26	23.18	23.22
3	15	0		23.19	23.08	23.32
3	1	0	16-QAM	24.22	23.72	24.03
3	1	7		24.19	23.8	24.04
3	1	14		24.23	23.8	24.09
3	8	0		22.42	22.72	22.21
3	8	4		22.36	22.76	22.18
3	8	7		22	22.75	22.17
3	15	0		22.68	22.61	22.33



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.6	23.49	23.49
5	1	12		23.57	23.5	23.6
5	1	24		23.54	23.49	23.69
5	12	0		23.19	23.05	23.23
5	12	6		23.1	23.16	23.26
5	12	11		23.1	23.07	23.28
5	25	0		23.09	23.2	23.25
5	1	0	16-QAM	23.3	22.8	23.02
5	1	12		23.26	22.78	23.22
5	1	24		23.24	22.73	23.16
5	12	0		22.52	22.48	22.03
5	12	6		22.05	22.46	22.14
5	12	11		22.01	22.56	22.25
5	25	0		22.2	22.66	22.21
10	1	0	QPSK	24.27	23.8	24.05
10	1	24		24.15	23.78	24.1
10	1	49		24.19	23.79	24.05
10	25	0		23.44	23.11	23.59
10	25	12		23.48	23.15	23.6
10	25	24		23.44	23.18	23.6
10	50	0		22.6	22.48	22.34
10	1	0	16-QAM	24.04	23.77	23.81
10	1	24		23.94	23.75	23.66
10	1	49		23.99	23.84	23.89
10	25	0		22.07	22.54	22.63
10	25	12		22.14	22.62	22.12
10	25	24		22.63	22.11	22.25



LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.59	23.58	23.61
5	1	12		23.64	23.54	23.67
5	1	24		23.65	23.59	23.76
5	12	0		23.14	23.19	23.30
5	12	6		23.11	23.18	23.35
5	12	11		23.22	23.11	23.32
5	25	0		23.20	23.04	23.35
5	1	0	16-QAM	22.86	23.31	23.39
5	1	12		22.81	23.18	23.44
5	1	24		22.92	23.32	23.44
5	12	0		22.62	22.65	22.16
5	12	6		22.55	22.08	22.31
5	12	11		22.60	22.06	22.32
5	25	0		22.75	22.07	22.45
10	1	0	QPSK	23.99	23.84	23.90
10	1	24		24.12	23.88	23.79
10	1	49		24.18	23.99	23.97
10	25	0		23.18	23.33	23.38
10	25	12		23.27	23.09	23.05
10	25	24		23.20	23.24	23.33
10	50	0		23.38	23.07	23.23
10	1	0	16-QAM	23.63	23.68	23.79
10	1	24		23.60	23.58	23.70
10	1	49		23.78	23.69	23.93
10	25	0		22.71	22.70	22.71
10	25	12		22.71	22.16	22.22
10	25	24		22.22	22.32	22.33



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.56	23.55	23.63
1.4	1	2		23.62	23.5	23.67
1.4	1	5		23.58	23.55	23.69
1.4	3	0		23.47	23.53	23.64
1.4	3	1		23.45	23.58	23.61
1.4	3	2		23.52	23.52	23.63
1.4	6	0		23.03	23.05	23.15
1.4	1	0	16-QAM	23.87	23.54	23.3
1.4	1	2		23.9	23.57	23.33
1.4	1	5		23.84	23.6	23.36
1.4	3	0		23.18	23.39	23.45
1.4	3	1		23.18	23.43	23.39
1.4	3	2		23.17	23.4	23.43
1.4	6	0		22.65	21.98	22.33
3	1	0	QPSK	23.5	23.5	23.62
3	1	7		23.47	23.58	23.63
3	1	14		23.46	23.52	23.68
3	8	0		22.98	23.06	23.13
3	8	4		22.9	23.1	23.15
3	8	7		22.99	23.07	23.06
3	15	0		22.98	23.07	23.12
3	1	0	16-QAM	23.45	23.74	23.43
3	1	7		23.33	23.76	23.52
3	1	14		23.44	23.66	23.71
3	8	0		22.91	23.19	22.91
3	8	4		22.91	23.23	22.94
3	8	7		22.86	23.16	23.03
3	15	0		22.91	23.17	22.94



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.49	23.54	23.51
5	1	12		23.45	23.48	23.54
5	1	24		23.37	23.54	23.59
5	12	0		23	23.04	23.11
5	12	6		23.04	22.98	23.11
5	12	11		22.91	23.06	23.14
5	25	0		23.03	23.08	23.2
5	1	0	16-QAM	23.06	22.67	23.01
5	1	12		23.09	22.75	23.08
5	1	24		23.04	22.76	23.08
5	12	0		22.38	22.02	22.07
5	12	6		21.82	21.98	22.07
5	12	11		21.83	21.91	22.07
5	25	0		22.03	22.1	22.09
10	1	0	QPSK	23.43	23.57	23.51
10	1	24		23.34	23.63	23.57
10	1	49		23.33	23.7	23.66
10	25	0		22.93	23.13	23.04
10	25	12		22.91	23.14	23.09
10	25	24		22.95	23.05	23.19
10	50	0		22.93	23.05	23.03
10	1	0	16-QAM	24.05	23.71	23.19
10	1	24		23.91	23.77	23.23
10	1	49		23.91	23.74	23.37
10	25	0		21.93	22.17	22.07
10	25	12		21.92	22.14	22.13
10	25	24		21.81	22.15	22.24



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.4	23.68	23.42
15	1	37		23.31	23.71	23.53
15	1	74		23.28	23.68	23.69
15	36	0		22.91	23.13	22.92
15	36	18		22.95	23.08	23.01
15	36	39		22.84	23.1	23.09
15	75	0		22.9	23.04	23.06
15	1	0	16-QAM	23.98	23	23.4
15	1	38		23.94	23.01	23.63
15	1	75		23.86	23.04	23.77
15	27	0		21.93	22.12	21.96
15	27	13		21.88	22.06	22.11
15	27	27		21.88	22.05	22.28
20	1	0	QPSK	24.09	23.54	23.3
20	1	49		24.07	23.54	23.29
20	1	99		24.1	23.57	23.38
20	50	0		22.39	22.41	22.16
20	50	24		22.32	22.29	22.15
20	50	49		21.76	22.28	22.11
20	100	0		22.52	22.13	22.19
20	1	0	16-QAM	22.71	23.14	23.14
20	1	49		22.56	23.1	23.22
20	1	99		22.65	22.95	23.42
20	27	0		22.01	22.21	21.76
20	27	13		21.97	22.2	21.91
20	27	27		21.96	22.17	22.17



LTE Band 71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.56	23.56	23.68
5	1	12		23.45	23.56	23.63
5	1	24		23.62	23.64	23.56
5	12	0		23.1	23.2	23.22
5	12	6		22.92	23.11	23.47
5	12	11		22.91	23.22	23.52
5	25	0		23	23.16	23.54
5	1	0	16-QAM	22.8	23.2	23.36
5	1	12		22.71	23.13	23.59
5	1	24		22.79	23.19	23.38
5	12	0		21.9	22.48	22.12
5	12	6		22.19	22.48	22.38
5	12	11		22.19	22.23	22.3
5	25	0		22.38	22.42	22.66
10	1	0	QPSK	23.47	23.53	23.61
10	1	24		23.55	23.69	23.69
10	1	49		23.56	23.73	23.75
10	25	0		23.02	23.21	23.27
10	25	12		23.02	23.17	23.31
10	25	24		23.13	23.3	23.54
10	50	0		23.2	23.18	23.34
10	1	0	16-QAM	23.99	23.69	23.45
10	1	24		24.02	23.87	23.4
10	1	49		23.99	23.81	23.49
10	25	0		22.3	22.18	22.54
10	25	12		22.13	22.58	22.25
10	25	24		22.43	22.23	22.57



LTE Band 71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.47	23.63	23.71
15	1	37		23.6	23.71	23.8
15	1	74		23.73	23.84	23.66
15	36	0		23.2	23.19	23.2
15	36	18		23.25	23.24	23.3
15	36	39		23.3	23.19	23.21
15	75	0		23.12	23.18	23.22
15	1	0	16-QAM	23.87	23.19	23.68
15	1	38		23.86	23.21	23.83
15	1	75		24.06	23.24	23.77
15	27	0		22.25	22.3	22.22
15	27	13		22.39	22.44	22.59
15	27	27		22.19	22.24	22.3
20	1	0	QPSK	23.48	23.61	23.59
20	1	49		23.4	23.76	23.76
20	1	99		23.68	24.24	23.76
20	50	0		23.17	23.16	23.16
20	50	24		23.29	23.25	23.24
20	50	49		23.21	23.24	23.38
20	100	0		23.33	23.25	23.16
20	1	0	16-QAM	22.79	23.32	22.99
20	1	49		22.97	23.2	23.18
20	1	99		22.93	23.56	23.43
20	27	0		22.33	22.2	22.12
20	27	13		22.43	22.63	22.12
20	27	27		22.65	22.26	22.28



10.2 Tune Up

Mode	GSM850	GSM1900
GSM/PCS	29.2±1dBm	29.6±1dBm
GPRS (1 Slot)	29.2±1dBm	29.7±1dBm
GPRS (2 Slot)	27.1±1dBm	27.5±1dBm
GPRS (3 Slot)	24.7±1dBm	26±1dBm
GPRS (4 Slot)	22.5±1dBm	23.6±1dBm
EDGE (1 Slot)	27.7±1dBm	27±1dBm
EDGE (2 Slot)	27±1dBm	26±1dBm
EDGE (3 Slot)	24±1dBm	24±1dBm
EDGE (4 Slot)	21.5±1dBm	21±1dBm

Mode	WCDMA Band II	WCDMA Band IV	WCDMA Band V
RMR	17.3±1dBm	20.2±1dBm	18.5±1dBm
HSDPA Subtest-1	17.5±1dBm	20.2±1dBm	18.5±1dBm
HSDPA Subtest-2	17±1dBm	19.7±1dBm	18.2±1dBm
HSDPA Subtest-3	16.7±1dBm	19.5±1dBm	18.1±1dBm
HSDPA Subtest-4	16.7±1dBm	19.3±1dBm	18±1dBm
HSUPA Subtest-1	17.4±1dBm	20±1dBm	18.3±1dBm
HSUPA Subtest-2	17.3±1dBm	20±1dBm	18.5±1dBm
HSUPA Subtest-3	17±1dBm	19.6±1dBm	18.2±1dBm
HSUPA Subtest-4	17.2±1dBm	20±1dBm	18.5±1dBm
HSUPA Subtest-5	17±1dBm	19.7±1dBm	18.5±1dBm

Mode	BT
GFSK	4.5±1dBm
$\pi/4$ -DQPSK	6±1dBm
8DPSK	6.3±1dBm



BW[MHz]	RB Size	Mode		Band 2	Band 4	Band 5	Band 7
1.4	1	QPSK		22±1dBm	23±1dBm	23±1dBm	N/A
1.4	3			22±1dBm	22.6±1dBm	23±1dBm	N/A
1.4	6			21.4±1dBm	22.2±1dBm	22.5±1dBm	N/A
1.4	1	16- QAM		22±1dBm	23±1dBm	23±1dBm	N/A
1.4	3			22±1dBm	22.5±1dBm	22.3±1dBm	N/A
1.4	6			21.7±1dBm	21.5±1dBm	22.3±1dBm	N/A
3	1	QPSK		22±1dBm	23±1dBm	23±1dBm	N/A
3	8			21.5±1dBm	22.1±1dBm	22.6±1dBm	N/A
3	15			21.5±1dBm	22.1±1dBm	22.5±1dBm	N/A
3	1	16- QAM		22.3±1dBm	23±1dBm	23.2±1dBm	N/A
3	8			20±1dBm	22.1±1dBm	22±1dBm	N/A
3	15			20±1dBm	22.1±1dBm	22±1dBm	N/A
5	1	QPSK		22±1dBm	22.6±1dBm	23±1dBm	22.5±1dBm
5	12			21.6±1dBm	22.1±1dBm	22.5±1dBm	22±1dBm
5	25			21.6±1dBm	22.1±1dBm	22.5±1dBm	22.1±1dBm
5	1	16- QAM		21.5±1dBm	22.2±1dBm	22.5±1dBm	22±1dBm
5	12			20±1dBm	21.3±1dBm	22±1dBm	21±1dBm
5	25			19.7±1dBm	21.2±1dBm	22±1dBm	21.2±1dBm
10	1	QPSK		21.6±1dBm	23±1dBm	23.5±1dBm	22.6±1dBm
10	25			21.7±1dBm	22.1±1dBm	23±1dBm	22±1dBm
10	50	QPSK	Low	21.1±1dBm	22±1dBm	21.1±1dBm	22.1±1dBm
10	50		Mid	21.2±1dBm	22.1±1dBm	21.5±1dBm	21.6±1dBm
10	50		High	21.3±1dBm	22.2±1dBm	22±1dBm	21.6±1dBm
10	1	16- QAM		22.6±1dBm	23±1dBm	23.1±1dBm	23.2±1dBm
10	25			20.3±1dBm	21.5±1dBm	22±1dBm	21.2±1dBm
15	1	QPSK		22±1dBm	23±1dBm	N/A	22.7±1dBm
15	36			21.6±1dBm	22.2±1dBm	N/A	22.1±1dBm
15	75			21.6±1dBm	22.1±1dBm	N/A	22.1±1dBm
15	1	16- QAM		22.5±1dBm	23.1±1dBm	N/A	23.3±1dBm
15	27			20±1dBm	21.5±1dBm	N/A	21.3±1dBm
20	1	QPSK	Low	21.9±1dBm	22.7±1dBm	N/A	22.5±1dBm
			Mid	21.6±1dBm	22.6±1dBm	N/A	23.5±1dBm
			High	22.6±1dBm	23.2±1dBm	N/A	22.5±1dBm
20	50	QPSK		21.5±1dBm	22±1dBm	N/A	22.1±1dBm
20	100			21.3±1dBm	21.5±1dBm	N/A	22.1±1dBm
20	1	16- QAM		22±1dBm	22.5±1dBm	N/A	22.2±1dBm
20	27			20.6±1dBm	21.5±1dBm	N/A	21.3±1dBm



BW[MHz]	RB Size	Mode		Band 12	Band 17	Band 66	Band 71
1.4	1	QPSK		23±1dBm	N/A	23±1dBm	N/A
1.4	3			23±1dBm	N/A	23±1dBm	N/A
1.4	6			22.5±1dBm	N/A	22.2±1dBm	N/A
1.4	1	16- QAM		23±1dBm	N/A	23±1dBm	N/A
1.4	3			22.3±1dBm	N/A	22.5±1dBm	N/A
1.4	6			22.2±1dBm	N/A	22±1dBm	N/A
3	1	QPSK		23±1dBm	N/A	23±1dBm	N/A
3	8			22.3±1dBm	N/A	22.2±1dBm	N/A
3	15			22.5±1dBm	N/A	22.2±1dBm	N/A
3	1	16- QAM		23.3±1dBm	N/A	23±1dBm	N/A
3	8			22±1dBm	N/A	22.3±1dBm	N/A
3	15			22±1dBm	N/A	22.2±1dBm	N/A
5	1	QPSK		23±1dBm	23±1dBm	22.6±1dBm	23±1dBm
5	12			22.3±1dBm	22.5±1dBm	22.2±1dBm	22.6±1dBm
5	25			22.3±1dBm	22.5±1dBm	22.3±1dBm	22.6±1dBm
5	1	16- QAM		22.5±1dBm	22.5±1dBm	22.1±1dBm	22.6±1dBm
5	12			21.6±1dBm	22±1dBm	21.5±1dBm	21.5±1dBm
5	25			21.7±1dBm	22±1dBm	21.2±1dBm	21.7±1dBm
10	1	QPSK		23.3±1dBm	23.5±1dBm	23±1dBm	23±1dBm
10	25			22.7±1dBm	22.5±1dBm	22.2±1dBm	22.6±1dBm
10	50			21.5±1dBm	22.5±1dBm	22.1±1dBm	22.5±1dBm
10	1	16- QAM		23.1±1dBm	23±1dBm	23.1±1dBm	23.1±1dBm
10	25			22±1dBm	22±1dBm	21.3±1dBm	21.6±1dBm
15	1	QPSK		N/A	N/A	23±1dBm	23±1dBm
15	36			N/A	N/A	22.2±1dBm	22.5±1dBm
15	75			N/A	N/A	22.1±1dBm	22.3±1dBm
15	1	16- QAM		N/A	N/A	23±1dBm	23.1±1dBm
15	27			N/A	N/A	21.3±1dBm	21.6±1dBm
20	1	QPSK	Low	N/A	N/A	23.2±1dBm	22.7±1dBm
20	1		Mid	N/A	N/A	22.6±1dBm	23.3±1dBm
20	1		High	N/A	N/A	22.5±1dBm	22.8±1dBm
20	50		Low	N/A	N/A	21.5±1dBm	22.3±1dBm
20	50		Mid	N/A	N/A	21.5±1dBm	22.3±1dBm
20	50		High	N/A	N/A	21.2±1dBm	22.5±1dBm
20	100		Low	N/A	N/A	21.6±1dBm	22.5±1dBm
20	100		Mid	N/A	N/A	21.2±1dBm	22.3±1dBm
20	100		High	N/A	N/A	21.2±1dBm	22.2±1dBm
20	1	16- QAM		N/A	N/A	22.5±1dBm	22.6±1dBm
20	27			N/A	N/A	21.3±1dBm	22±1dBm



11. EUT and Test Setup Photo

11.1 EUT Photos

Front side

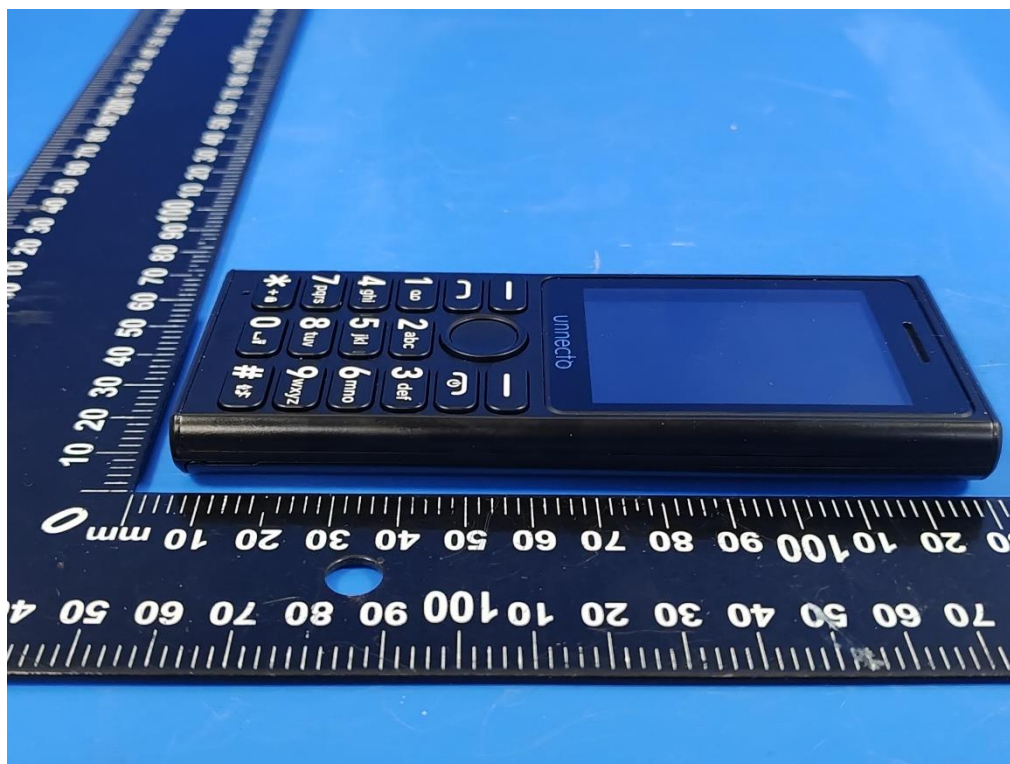


Back side

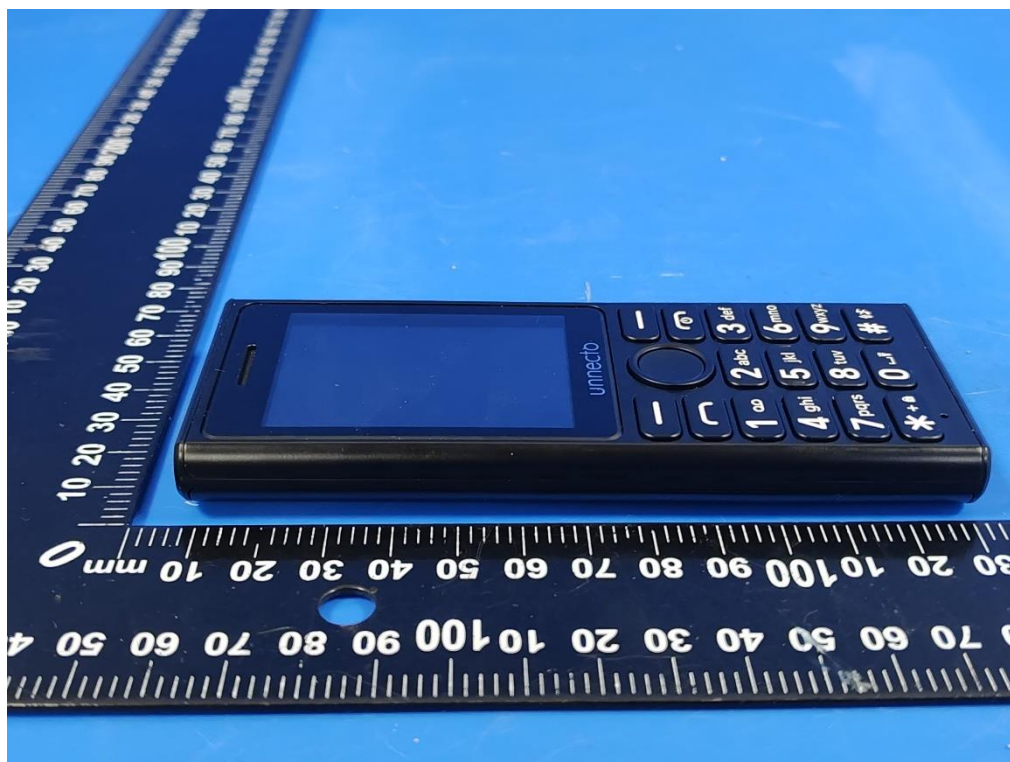




Right Edge

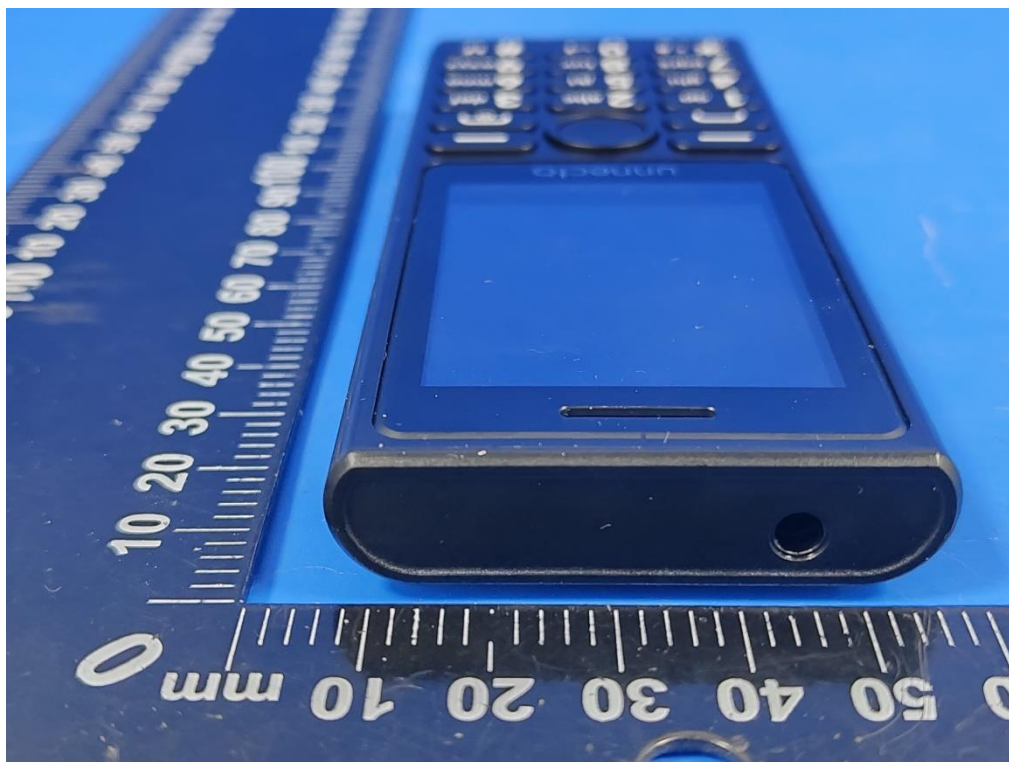


Left Edge





Top Edge

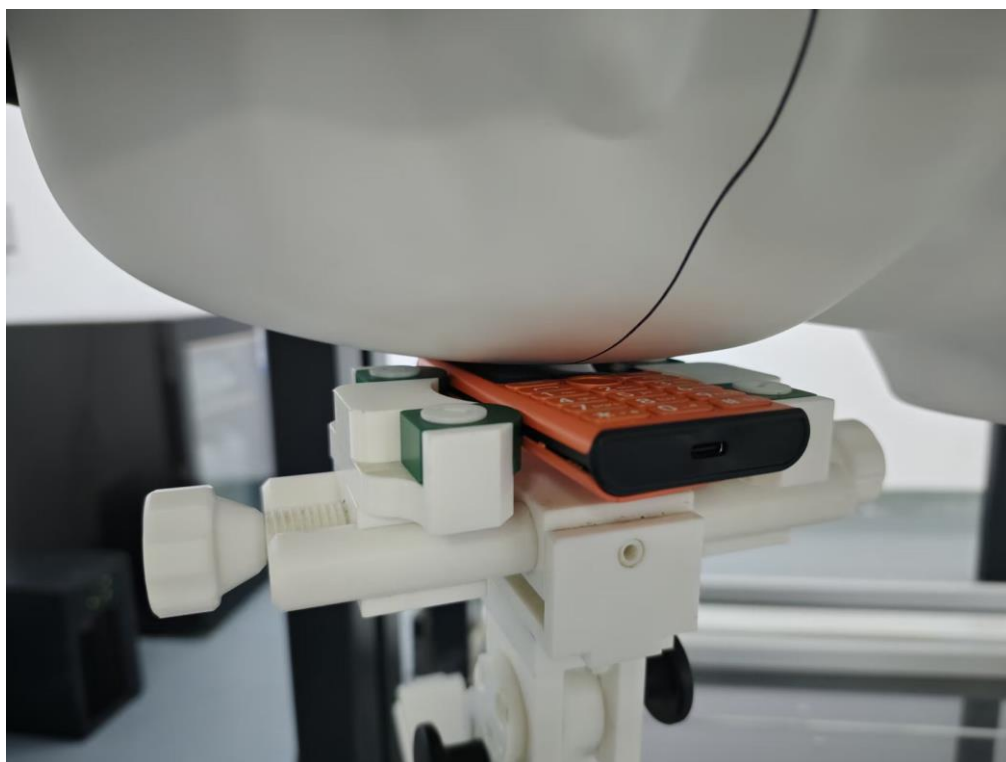


Bottom Edge



11.2 Setup Photos

Right Touch

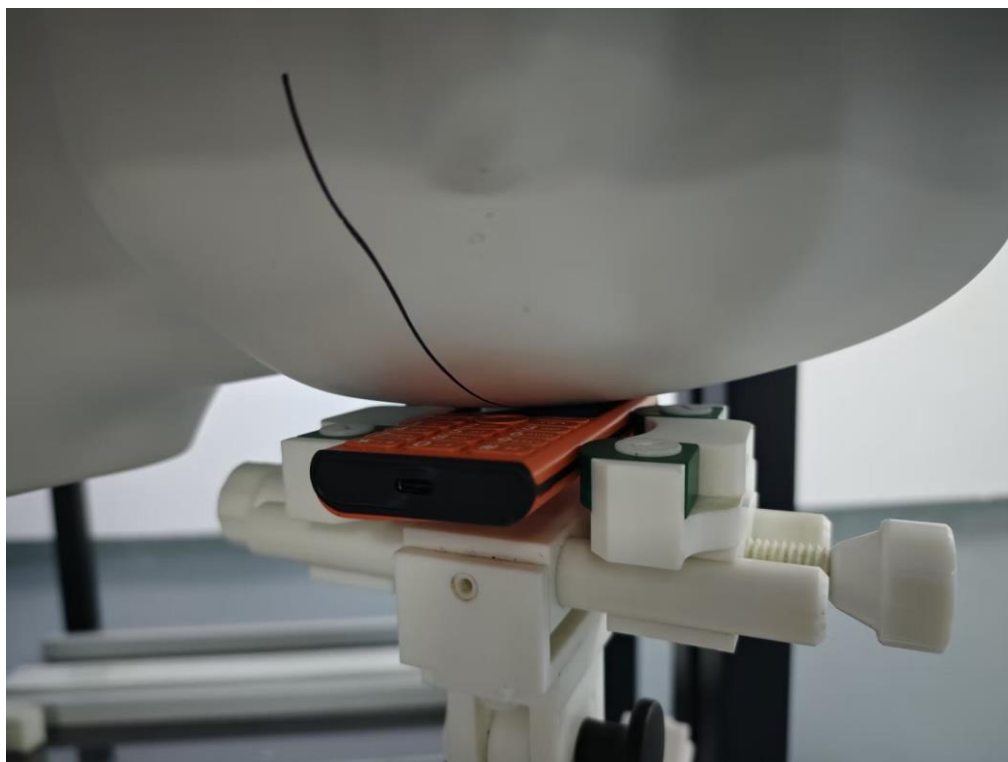


Right Tilt

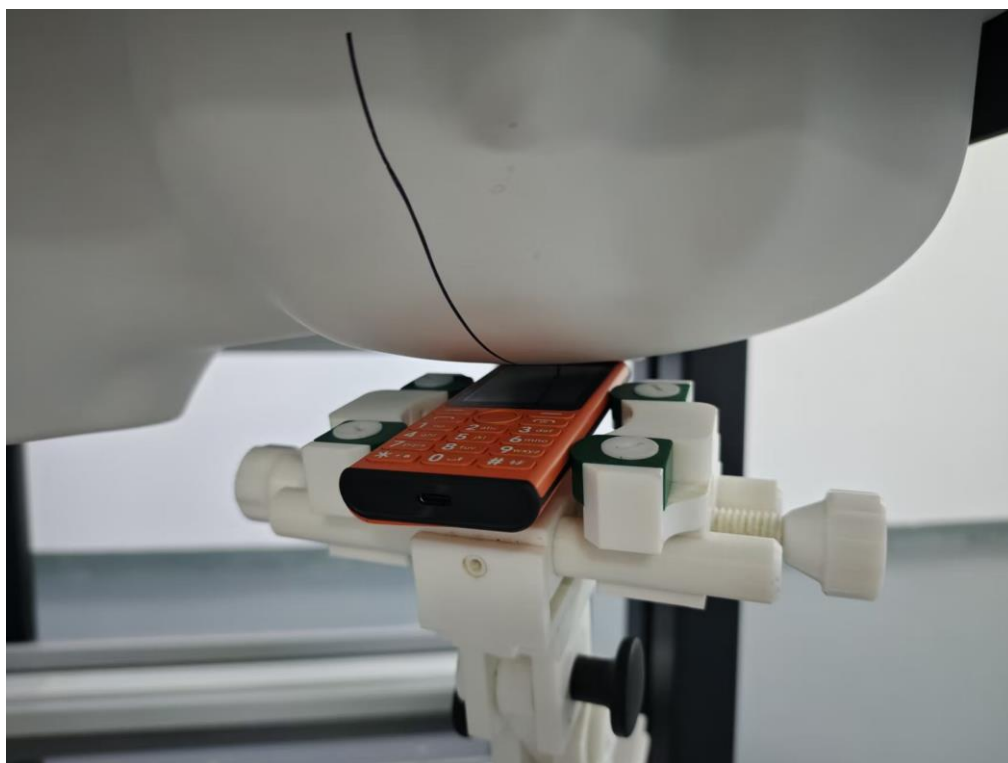




Left Touch

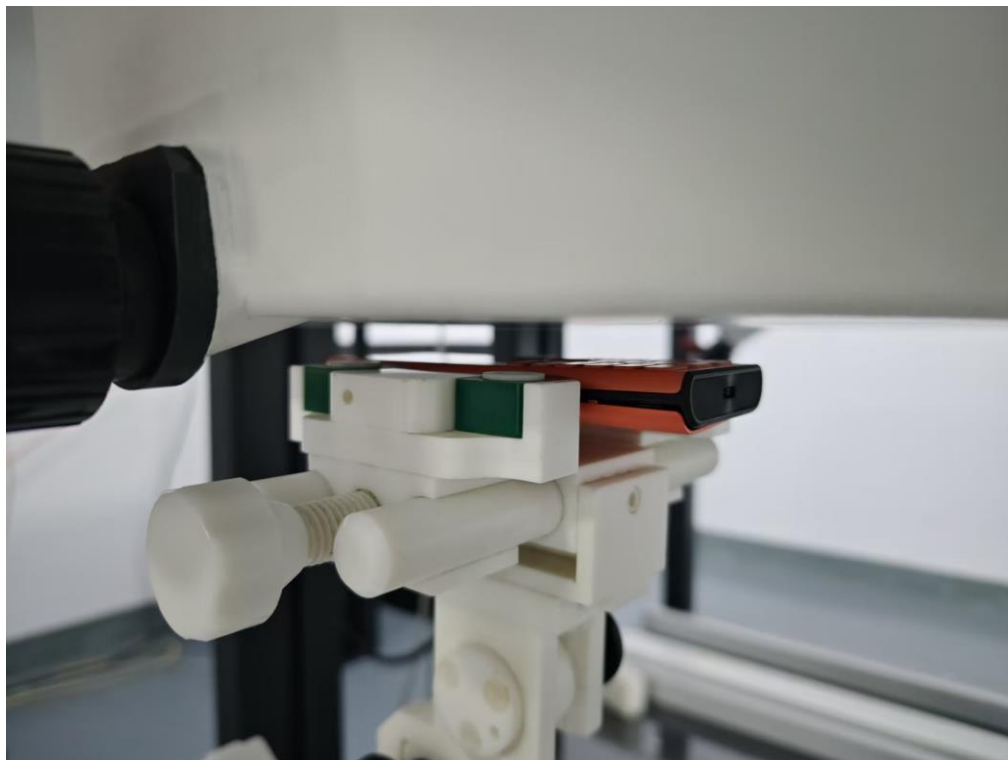


Left Tilt

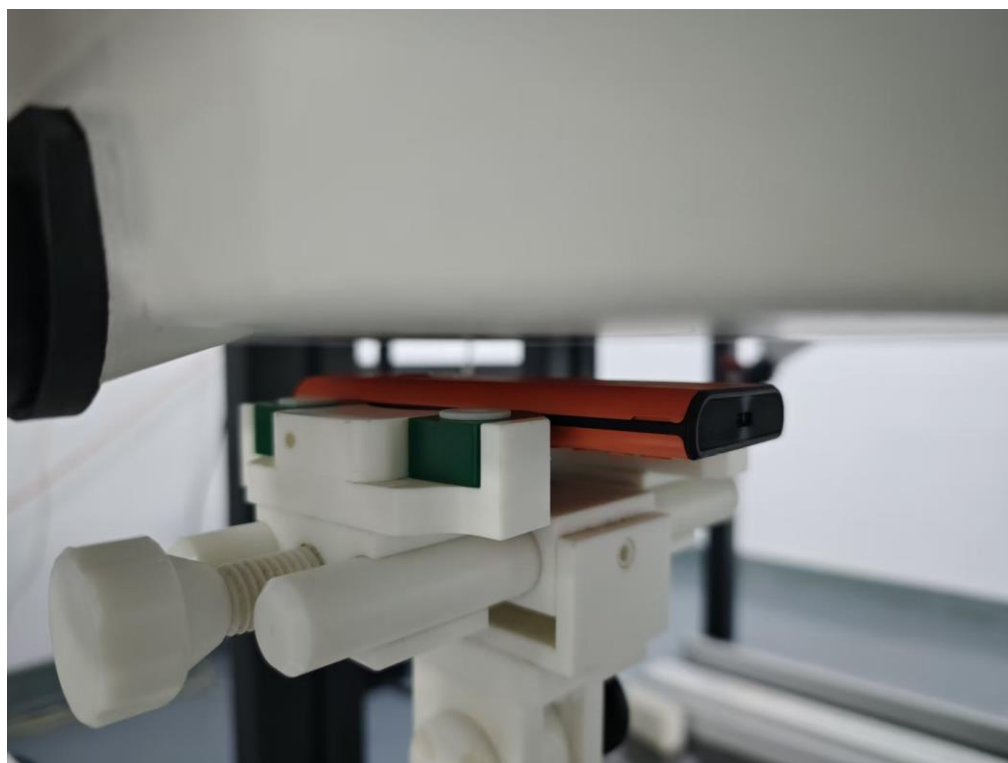




Body Front side (separation distance is 10mm)

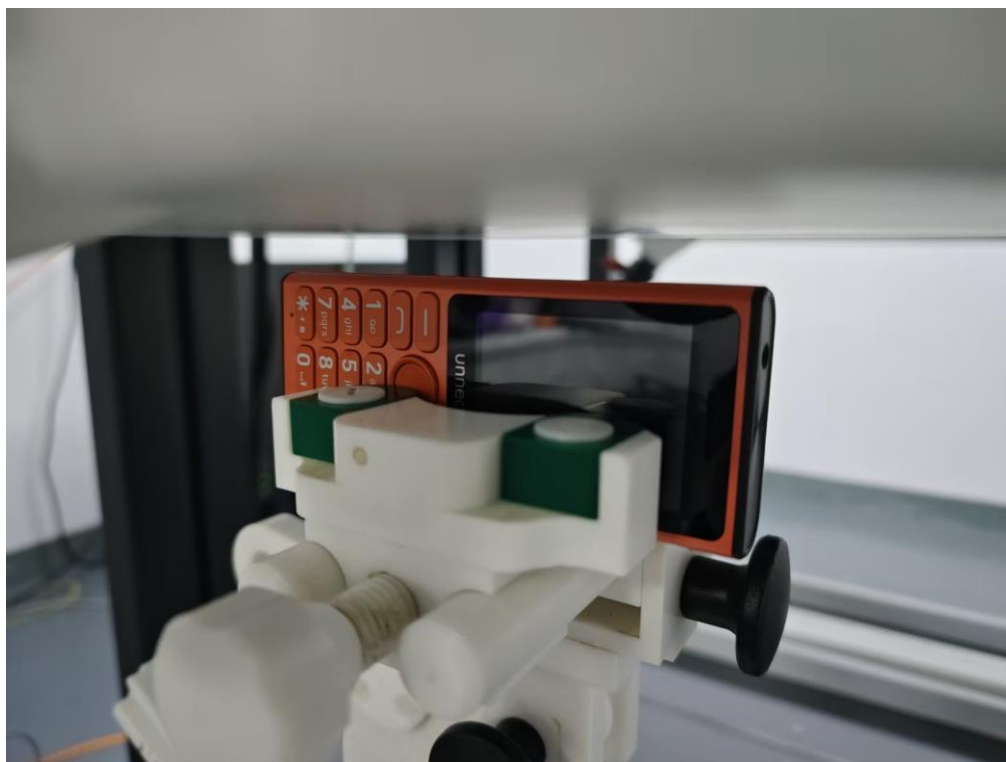


Body Back side (separation distance 10mm)





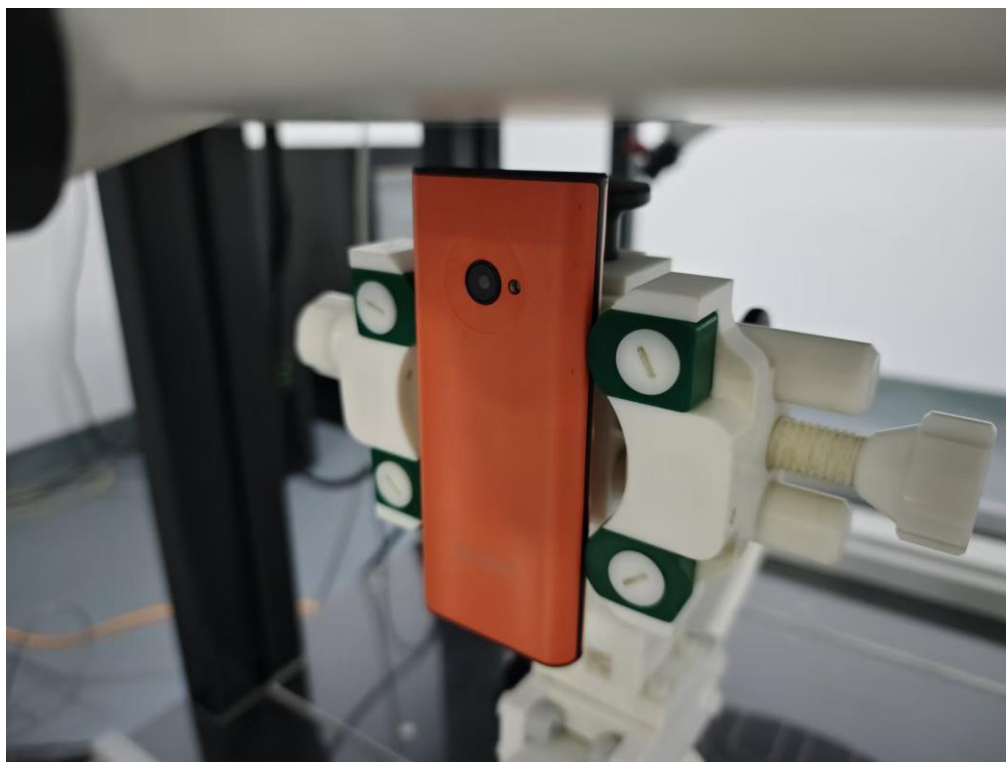
Body Left side (separation distance is 10mm)



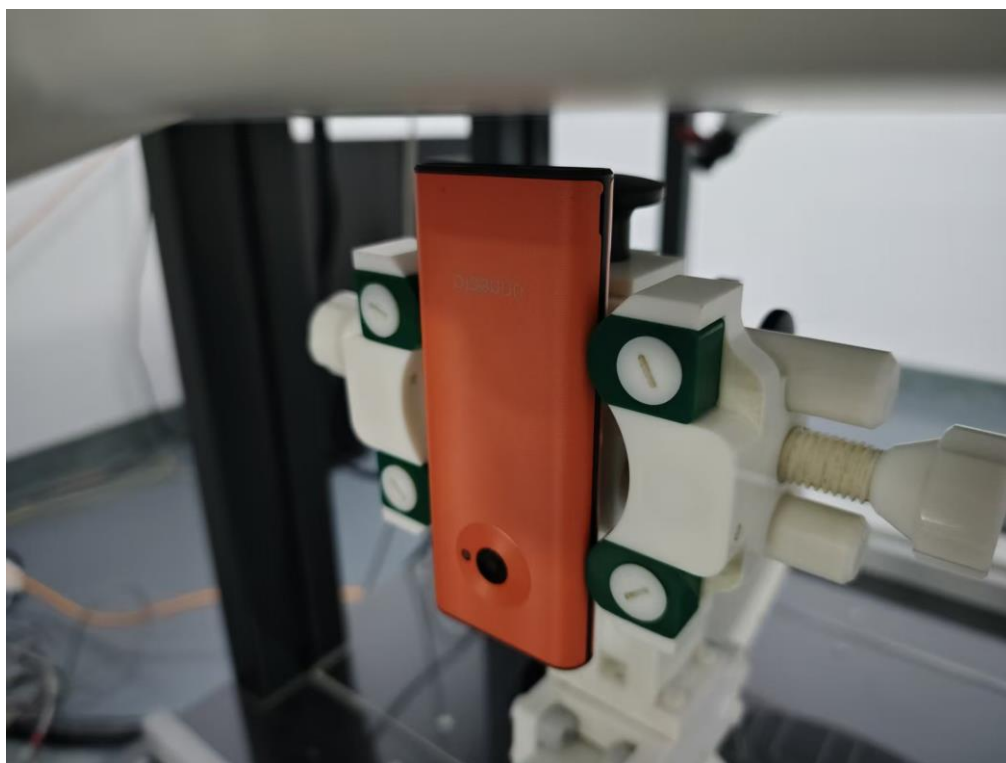
Body Right side (separation distance is 10mm)



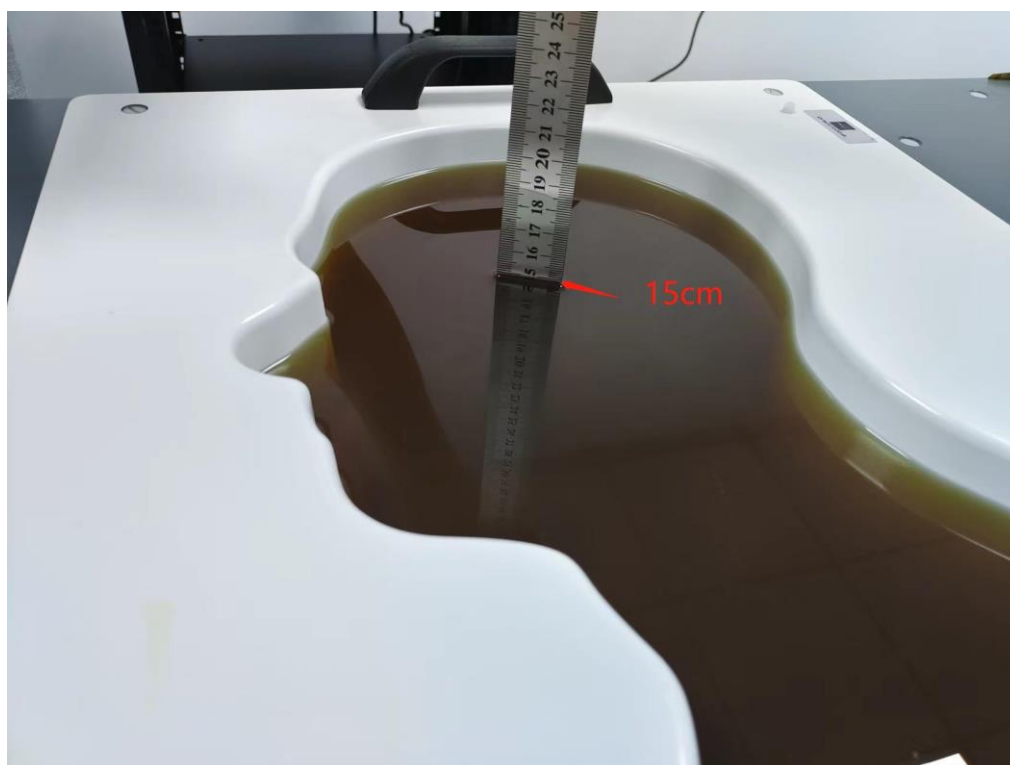
Body Top side (separation distance is 10mm)



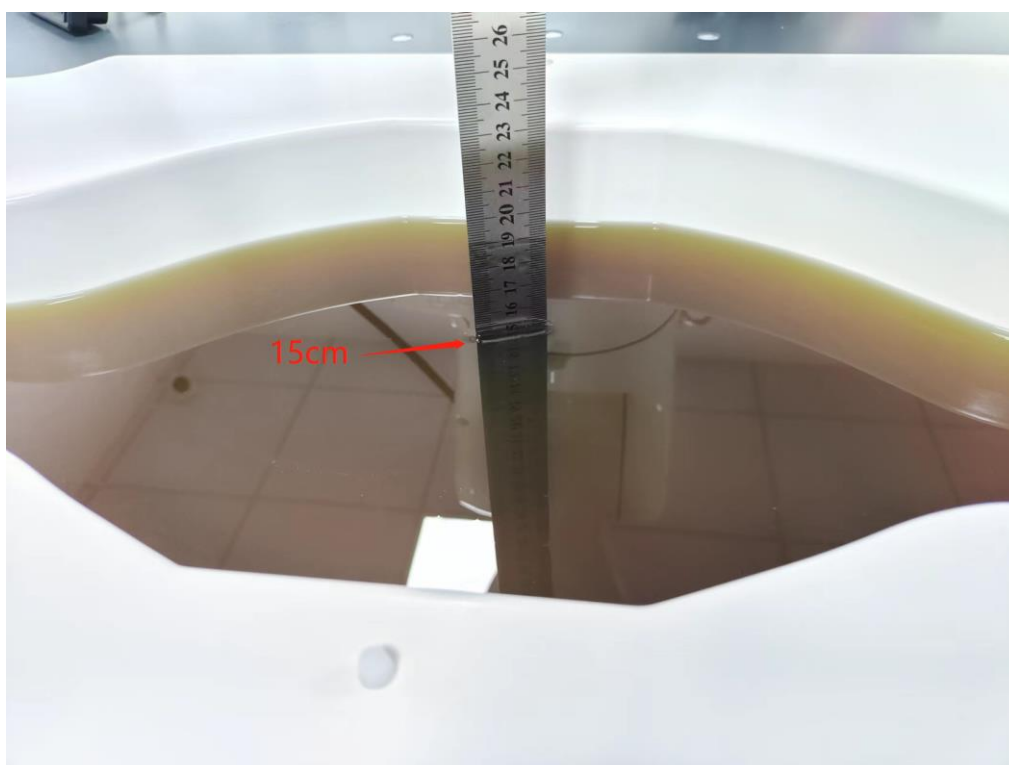
Body Bottom side (separation distance is 10mm)



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.
GSM850	GPRS	Right Cheek	824.2	1.063	-3.75	30.20	30.18	1.005	1.068	1
		Right Cheek	836.6	0.949	-0.26	30.20	30.00	1.047	0.994	/
		Right Cheek	848.8	0.956	-2.24	30.20	29.73	1.114	1.065	/
		Right Tilt	824.2	0.534	-3.99	30.20	30.18	1.005	0.536	/
		Left Cheek	824.2	0.774	3.40	30.20	30.18	1.005	0.778	/
		Left Tilt	824.2	0.388	1.68	30.20	30.18	1.005	0.390	/
PCS 1900	GPRS	Right Cheek	1850.2	0.928	-2.29	30.70	30.60	1.023	0.950	3
		Right Cheek	1880	0.838	-2.92	30.70	30.58	1.028	0.861	/
		Right Cheek	1909.8	0.844	-0.62	30.70	30.21	1.119	0.945	/
		Right Tilt	1850.2	0.469	-2.27	30.70	30.60	1.023	0.480	/
		Left Cheek	1850.2	0.669	-2.57	30.70	30.60	1.023	0.685	/
		Left Tilt	1850.2	0.339	-3.50	30.70	30.60	1.023	0.347	/
WCDMA Band II	HSDPA Subtest-1	Right Cheek	1852.4	0.600	2.09	18.50	18.33	1.040	0.624	5
		Right Tilt	1852.4	0.303	1.67	18.50	18.33	1.040	0.315	/
		Left Cheek	1852.4	0.421	2.51	18.50	18.33	1.040	0.438	/
		Left Tilt	1852.4	0.211	-0.25	18.50	18.33	1.040	0.219	/
WCDMA Band IV	RMC	Right Cheek	1712.6	1.111	2.48	21.20	21.18	1.005	1.116	7
		Right Cheek	1740	1.033	-1.92	21.20	20.92	1.067	1.102	/
		Right Cheek	1752.4	1.045	0.81	21.20	20.93	1.064	1.112	/
		Right Tilt	1712.6	0.556	1.37	21.20	21.18	1.005	0.559	/
		Left Cheek	1712.6	0.622	-3.44	21.20	21.18	1.005	0.625	/
		Left Tilt	1712.6	0.312	3.37	21.20	21.18	1.005	0.313	/
WCDMA Band V	HSDPA Subtest-1	Right Cheek	826.4	0.805	-2.77	19.50	19.41	1.021	0.822	9
		Right Cheek	836.4	0.759	0.88	19.50	19.30	1.047	0.795	/
		Right Cheek	846.6	0.764	3.26	19.50	19.20	1.072	0.819	/
		Right Tilt	826.4	0.406	-3.40	19.50	19.41	1.021	0.415	/
		Left Cheek	826.4	0.711	-1.38	19.50	19.41	1.021	0.726	/
		Left Tilt	826.4	0.359	-0.72	19.50	19.41	1.021	0.367	/



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	0.794	-0.24	22.90	22.82	1.019	0.809	/
			1	0	Right Cheek	1880	0.802	-3.49	22.60	22.55	1.012	0.811	/
			1	0	Right Cheek	1900	0.807	0.66	23.60	23.50	1.023	0.826	11
			50	0	Right Cheek	1900	0.71	1.80	23.60	23.50	1.023	0.727	/
			1	0	Right Tilt	1900	0.646	0.79	23.60	23.50	1.023	0.661	/
			50	0	Right Tilt	1900	0.571	-0.21	23.60	23.50	1.023	0.584	/
			1	0	Left Cheek	1900	0.728	3.44	23.60	23.50	1.023	0.745	/
			50	0	Left Cheek	1900	0.643	2.44	23.60	23.50	1.023	0.658	/
			1	0	Left Tilt	1900	0.645	-1.60	23.60	23.50	1.023	0.660	/
			50	0	Left Tilt	1900	0.57	-2.45	23.60	23.50	1.023	0.583	/
LTE Band 4	20M	QPSK	1	0	Right Cheek	1720	0.798	-1.40	24.20	24.10	1.023	0.817	13
			1	0	Right Cheek	1732.5	0.789	-1.24	23.70	23.69	1.002	0.791	/
			1	0	Right Cheek	1745	0.791	3.63	23.60	23.52	1.019	0.806	/
			50	0	Right Cheek	1720	0.705	-0.11	24.20	24.10	1.023	0.721	/
			1	0	Right Tilt	1720	0.64	0.72	24.20	24.10	1.023	0.655	/
			50	0	Right Tilt	1720	0.562	-3.66	24.20	24.10	1.023	0.575	/
			1	0	Left Cheek	1720	0.721	-2.15	24.20	24.10	1.023	0.738	/
			50	0	Left Cheek	1720	0.634	2.20	24.20	24.10	1.023	0.649	/
			1	0	Left Tilt	1720	0.638	2.08	24.20	24.10	1.023	0.653	/
			50	0	Left Tilt	1720	0.565	-0.81	24.20	24.10	1.023	0.578	/
LTE Band 5	10M	QPSK	1	0	Right Cheek	844	0.539	-3.86	24.50	24.43	1.016	0.548	/
			25	0	Right Cheek	844	0.477	-0.66	24.50	24.43	1.016	0.485	/
			1	0	Right Tilt	844	0.479	-0.98	24.50	24.43	1.016	0.487	/
			25	0	Right Tilt	844	0.529	0.59	24.50	24.43	1.016	0.538	/
			1	0	Left Cheek	844	0.597	2.88	24.50	24.43	1.016	0.607	15
			25	0	Left Cheek	844	0.527	-3.46	24.50	24.43	1.016	0.536	/
			1	0	Left Tilt	844	0.479	-2.37	24.50	24.43	1.016	0.487	/
			25	0	Left Tilt	844	0.422	0.94	24.50	24.43	1.016	0.429	/
LTE Band 7	20M	QPSK	1	0	Right Cheek	2535	0.467	-0.69	24.50	24.33	1.040	0.486	17
			50	0	Right Cheek	2535	0.414	0.24	24.50	24.33	1.040	0.431	/
			1	0	Right Tilt	2535	0.375	3.70	24.50	24.33	1.040	0.390	/
			50	0	Right Tilt	2535	0.332	0.50	24.50	24.33	1.040	0.345	/
			1	0	Left Cheek	2535	0.421	-1.38	24.50	24.33	1.040	0.438	/
			50	0	Left Cheek	2535	0.372	1.89	24.50	24.33	1.040	0.387	/
			1	0	Left Tilt	2535	0.373	-3.81	24.50	24.33	1.040	0.388	/
			50	0	Left Tilt	2535	0.329	-3.13	24.50	24.33	1.040	0.342	/



LTE Band 12	10M	QPSK	1	0	Right Cheek	704	0.316	-2.00	24.30	24.27	1.007	0.318	/
			25	0	Right Cheek	704	0.28	0.65	24.30	24.27	1.007	0.282	/
			1	0	Right Tilt	704	0.281	-3.15	24.30	24.27	1.007	0.283	/
			25	0	Right Tilt	704	0.31	1.76	24.30	24.27	1.007	0.312	/
			1	0	Left Cheek	704	0.349	-2.23	24.30	24.27	1.007	0.351	19
			25	0	Left Cheek	704	0.31	3.10	24.30	24.27	1.007	0.312	/
			1	0	Left Tilt	704	0.281	1.62	24.30	24.27	1.007	0.283	/
			25	0	Left Tilt	704	0.248	2.09	24.30	24.27	1.007	0.250	/
LTE Band 66	20M	QPSK	1	0	Right Cheek	1720	0.347	-0.46	24.20	24.10	1.023	0.355	21
			50	0	Right Cheek	1720	0.305	2.56	24.20	24.10	1.023	0.312	/
			1	0	Right Tilt	1720	0.278	2.56	24.20	24.10	1.023	0.284	/
			50	0	Right Tilt	1720	0.246	-3.69	24.20	24.10	1.023	0.252	/
			1	0	Left Cheek	1720	0.313	1.86	24.20	24.10	1.023	0.320	/
			50	0	Left Cheek	1720	0.277	-3.76	24.20	24.10	1.023	0.283	/
			1	0	Left Tilt	1720	0.281	-1.80	24.20	24.10	1.023	0.288	/
			50	0	Left Tilt	1720	0.246	-1.26	24.20	24.10	1.023	0.252	/
LTE Band 71	20M	QPSK	1	0	Right Cheek	683	0.363	-0.81	24.30	24.24	1.014	0.368	/
			50	0	Right Cheek	683	0.32	3.51	24.30	24.24	1.014	0.324	/
			1	0	Right Tilt	683	0.32	-3.95	24.30	24.24	1.014	0.324	/
			50	0	Right Tilt	683	0.353	2.77	24.30	24.24	1.014	0.358	/
			1	0	Left Cheek	683	0.399	1.81	24.30	24.24	1.014	0.405	23
			50	0	Left Cheek	683	0.35	3.94	24.30	24.24	1.014	0.355	/
			1	0	Left Tilt	683	0.322	2.20	24.30	24.24	1.014	0.326	/
			50	0	Left Tilt	683	0.282	-0.11	24.30	24.24	1.014	0.286	/

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 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.
GSM850	GPRS (GMSK, 2-Slot)	Front Side	824.2	0.73	3.07	28.10	28.00	1.023	0.747	/
		Back Side	824.2	1.084	2.19	28.10	28.00	1.023	1.109	2
		Back Side	836.6	0.954	3.83	28.10	27.88	1.052	1.004	/
		Back Side	848.8	0.961	-1.05	28.10	27.50	1.148	1.103	/
		Left Side	824.2	0.422	0.78	28.10	28.00	1.023	0.432	/
		Right Side	824.2	0.382	-3.85	28.10	28.00	1.023	0.391	/
		Top Side	824.2	0.489	0.77	28.10	28.00	1.023	0.500	/
		Bottom Side	824.2	0.758	-2.18	28.10	28.00	1.023	0.776	/
PCS 1900	GPRS (GMSK, 3-Slot)	Front Side	1850.2	0.587	-1.84	27.00	26.72	1.067	0.626	/
		Back Side	1850.2	0.874	3.83	27.00	26.72	1.067	0.932	4
		Back Side	1880	0.678	2.34	27.00	26.35	1.161	0.787	/
		Back Side	1909.8	0.685	-3.28	27.00	25.68	1.355	0.928	/
		Left Side	1850.2	0.344	-2.64	27.00	26.72	1.067	0.367	/
		Right Side	1850.2	0.307	0.49	27.00	26.72	1.067	0.327	/
		Top Side	1850.2	0.394	-0.08	27.00	26.72	1.067	0.420	/
		Bottom Side	1850.2	0.613	3.51	27.00	26.72	1.067	0.654	/
WCDMA Band II	RMC	Front Side	1852.4	0.482	-0.95	18.50	18.33	1.040	0.501	/
		Back Side	1852.4	0.607	3.09	18.50	18.33	1.040	0.631	6
		Left Side	1852.4	0.146	-2.74	18.50	18.33	1.040	0.152	/
		Right Side	1852.4	0.258	-3.92	18.50	18.33	1.040	0.268	/
		Bottom Side	1852.4	0.427	-3.01	18.50	18.33	1.040	0.444	/
WCDMA Band IV	RMC	Front Side	1712.6	0.633	-3.84	21.20	21.18	1.005	0.636	/
		Back Side	1712.6	0.942	-2.83	21.20	21.18	1.005	0.946	8
		Back Side	1740	0.881	-3.24	21.20	20.92	1.067	0.940	/
		Back Side	1752.4	0.884	-3.58	21.20	20.93	1.064	0.941	/
		Left Side	1712.6	0.37	-0.42	21.20	21.18	1.005	0.372	/
		Right Side	1712.6	0.334	3.51	21.20	21.18	1.005	0.336	/
		Bottom Side	1712.6	0.571	1.85	21.20	21.18	1.005	0.574	/
WCDMA Band V	RMC	Front Side	826.4	0.618	1.11	19.50	19.41	1.021	0.631	/
		Back Side	826.4	0.921	2.42	19.50	19.41	1.021	0.940	10
		Back Side	836.4	0.874	-2.19	19.50	19.30	1.047	0.915	/
		Back Side	846.6	0.876	2.44	19.50	19.20	1.072	0.939	/
		Left Side	826.4	0.539	0.42	19.50	19.41	1.021	0.550	/
		Right Side	826.4	0.553	-2.63	19.50	19.41	1.021	0.565	/
		Bottom Side	826.4	0.648	0.18	19.50	19.41	1.021	0.662	/



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	1900	0.643	-1.86	23.60	23.50	1.023	0.658	/
			50	0	Front side	1880	0.571	-2.07	22.50	22.41	1.021	0.583	/
			1	0	Back Side	1860	0.893	-2.76	22.90	22.82	1.019	0.910	/
			1	0	Back Side	1880	0.901	-1.47	22.60	22.55	1.012	0.911	/
			1	0	Back Side	1900	0.912	2.42	23.60	23.50	1.023	0.933	12
			50	0	Back Side	1860	0.751	3.95	22.50	22.13	1.089	0.818	/
			50	0	Back Side	1880	0.805	-3.84	22.50	22.41	1.021	0.822	/
			50	0	Back Side	1900	0.773	-1.81	22.50	22.25	1.059	0.819	/
			100	0	Back Side	1900	0.743	1.24	22.30	22.26	1.009	0.750	/
			1	0	Left Side	1900	0.722	-3.33	23.60	23.50	1.023	0.739	/
			50	0	Left Side	1880	0.636	-2.98	22.50	22.41	1.021	0.649	/
			1	0	Right Side	1900	0.705	0.24	23.60	23.50	1.023	0.721	/
			50	0	Right Side	1880	0.61	-3.59	22.50	22.41	1.021	0.623	/
			1	0	Bottom Side	1900	0.74	-2.94	23.60	23.50	1.023	0.757	/
			50	0	Bottom Side	1880	0.656	-3.79	22.50	22.41	1.021	0.670	/
LTE Band 4	20M	QPSK	1	0	Front side	1720	0.583	-1.27	24.20	24.10	1.023	0.597	/
			50	0	Front side	1732.5	0.515	-3.01	22.00	22.61	0.869	0.448	/
			1	0	Back Side	1720	0.833	-3.50	24.20	24.10	1.023	0.852	14
			1	0	Back Side	1732.5	0.821	-3.08	23.70	23.69	1.002	0.823	/
			1	0	Back Side	1745	0.826	-0.28	23.60	23.52	1.019	0.841	/
			50	0	Back Side	1732.5	0.739	-1.49	22.00	22.61	0.869	0.642	/
			1	0	Left Side	1720	0.668	-2.16	24.20	24.10	1.023	0.684	/
			50	0	Left Side	1732.5	0.59	-3.64	22.00	22.61	0.869	0.513	/
			1	0	Right Side	1720	0.687	0.03	24.20	24.10	1.023	0.703	/
			50	0	Right Side	1732.5	0.607	2.68	22.00	22.61	0.869	0.527	/
			1	0	Bottom Side	1720	0.671	2.58	24.20	24.10	1.023	0.687	/
			50	0	Bottom Side	1732.5	0.594	-2.29	22.00	22.61	0.869	0.516	/



LTE Band 5	10M	QPSK	1	0	Front side	844	0.717	-2.28	24.50	24.43	1.016	0.729	/
			25	0	Front side	844	0.637	3.56	24.00	23.66	1.081	0.689	/
			1	0	Back Side	829	0.924	1.10	24.50	24.02	1.117	1.032	/
			1	0	Back Side	836.5	0.916	2.31	24.50	24.05	1.109	1.016	/
			1	0	Back Side	844	1.021	-2.83	24.50	24.43	1.016	1.038	16
			25	0	Back Side	829	0.831	3.16	24.00	23.40	1.148	0.954	/
			25	0	Back Side	836.5	0.845	0.30	24.00	23.42	1.143	0.966	/
			25	0	Back Side	844	0.899	-3.22	24.00	23.66	1.081	0.972	/
			50	0	Back Side	829	0.809	-0.63	22.10	22.01	1.021	0.826	/
			50	0	Back Side	836.5	0.819	3.62	22.50	22.31	1.045	0.856	/
			50	0	Back Side	844	0.842	-3.67	23.00	22.90	1.023	0.862	/
			1	0	Left Side	844	0.776	-1.92	24.50	24.43	1.016	0.789	/
			25	0	Left Side	844	0.687	-0.88	24.00	23.66	1.081	0.743	/
			1	0	Right Side	844	0.766	2.13	24.50	24.43	1.016	0.778	/
			25	0	Right Side	844	0.679	-2.75	24.00	23.66	1.081	0.734	/
			1	0	Bottom Side	844	0.73	-0.16	24.50	24.43	1.016	0.742	/
			25	0	Bottom Side	844	0.645	-0.46	24.00	23.66	1.081	0.698	/
LTE Band 7	20M	QPSK	1	0	Front side	2535	0.279	1.01	24.50	24.33	1.040	0.290	/
			50	0	Front side	2510	0.248	-0.96	23.10	23.00	1.023	0.254	/
			1	0	Back Side	2535	0.395	3.95	24.50	24.33	1.040	0.411	18
			50	0	Back Side	2510	0.35	3.13	23.10	23.00	1.023	0.358	/
			1	0	Left Side	2535	0.3	-0.92	24.50	24.33	1.040	0.312	/
			50	0	Left Side	2510	0.27	3.37	23.10	23.00	1.023	0.276	/
			1	0	Right Side	2535	0.298	3.22	24.50	24.33	1.040	0.310	/
			50	0	Right Side	2510	0.266	1.04	23.10	23.00	1.023	0.272	/
			1	0	Bottom Side	2535	0.283	1.34	24.50	24.33	1.040	0.294	/
			50	0	Bottom Side	2510	0.253	3.57	23.10	23.00	1.023	0.259	/



LTE Band 12	10M	QPSK	1	0	Front side	704	0.614	0.32	24.30	24.27	1.007	0.618	/
			25	0	Front side	711	0.545	-0.19	23.70	23.60	1.023	0.558	/
			1	0	Back Side	704	0.877	0.48	24.30	24.27	1.007	0.883	20
			1	0	Back Side	707.5	0.781	1.63	24.30	23.80	1.122	0.876	/
			1	0	Back Side	711	0.840	-1.77	24.30	24.10	1.047	0.880	/
			25	0	Back Side	711	0.777	-2.40	23.70	23.60	1.023	0.795	/
			1	0	Left Side	704	0.67	-1.19	24.30	24.27	1.007	0.675	/
			25	0	Left Side	711	0.591	2.41	23.70	23.60	1.023	0.605	/
			1	0	Right Side	704	0.659	3.33	24.30	24.27	1.007	0.664	/
			25	0	Right Side	711	0.583	-2.80	23.70	23.60	1.023	0.597	/
			1	0	Bottom Side	704	0.624	1.17	24.30	24.27	1.007	0.628	/
			25	0	Bottom Side	711	0.551	2.14	23.70	23.60	1.023	0.564	/
LTE Band 66	20M	QPSK	1	0	Front side	1720	0.653	-3.13	24.20	24.10	1.023	0.668	/
			50	0	Front side	1745	0.577	-3.14	22.50	22.41	1.021	0.589	/
			1	0	Back Side	1720	0.933	0.10	24.20	24.10	1.023	0.955	22
			1	0	Back Side	1745	0.912	-1.66	23.60	23.57	1.007	0.918	/
			1	0	Back Side	1770	0.921	-0.01	23.50	23.38	1.028	0.947	/
			50	0	Back Side	1720	0.801	0.05	22.50	22.39	1.026	0.822	/
			50	0	Back Side	1745	0.823	3.29	22.50	22.41	1.021	0.840	/
			50	0	Back Side	1770	0.816	-3.65	22.20	22.16	1.009	0.824	/
			100	0	Back Side	1720	0.758	-0.78	22.60	22.52	1.019	0.772	/
			100	0	Back Side	1745	0.741	-2.30	22.20	22.13	1.016	0.753	/
			100	0	Back Side	1770	0.753	2.84	22.20	22.19	1.002	0.755	/
			1	0	Left Side	1720	0.712	2.21	24.20	24.10	1.023	0.729	/
			50	0	Left Side	1745	0.63	1.73	22.50	22.41	1.021	0.643	/
			1	0	Right Side	1720	0.703	2.94	24.20	24.10	1.023	0.719	/
			50	0	Right Side	1745	0.623	2.40	22.50	22.41	1.021	0.636	/
			1	0	Bottom Side	1720	0.666	-1.92	24.20	24.10	1.023	0.682	/
			50	0	Bottom Side	1745	0.589	-1.00	22.50	22.41	1.021	0.601	/



LTE Band 71	20M	QPSK	1	0	Front side	683	0.586	3.54	24.30	24.24	1.014	0.594	/
			50	0	Front side	688	0.517	3.65	23.50	23.38	1.028	0.531	/
			1	0	Back Side	673	0.816	0.94	23.70	23.68	1.005	0.820	/
			1	0	Back Side	683	0.836	-3.64	24.30	24.24	1.014	0.848	24
			1	0	Back Side	688	0.824	0.14	23.80	23.76	1.009	0.832	/
			50	0	Back Side	688	0.736	3.80	23.50	23.38	1.028	0.757	/
			1	0	Left Side	683	0.639	-1.16	24.30	24.24	1.014	0.648	/
			50	0	Left Side	688	0.566	-3.75	23.50	23.38	1.028	0.582	/
			1	0	Right Side	683	0.63	-1.74	24.30	24.24	1.014	0.639	/
			50	0	Right Side	688	0.557	-2.68	23.50	23.38	1.028	0.573	/
			1	0	Bottom Side	683	0.598	1.67	24.30	24.24	1.014	0.606	/
			50	0	Bottom Side	688	0.529	-3.79	23.50	23.38	1.028	0.544	/

Note:

1. The test separation of all above table is 10mm.
2. Per KDB 447498 D01, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - b. Scaled SAR(W/kg) = Measured SAR(W/kg) *Tune-up Scaling Factor



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)
GSM 850	GPRS	Right Cheek	824.2	1.017	-3.48	30.20	30.18	1.005	1.022
		Right Cheek	836.6	0.939	-1.53	30.20	30.00	1.047	0.983
		Right Cheek	848.8	0.933	2.90	30.20	29.73	1.114	1.040
GSM 850	GPRS (GMSK, 2-Slot)	Back Side	824.2	1.082	-2.20	28.10	28.00	1.023	1.107
		Back Side	836.6	0.909	2.71	28.10	27.88	1.052	0.956
		Back Side	848.8	0.946	-2.64	28.10	27.50	1.148	1.086
PCS 1900	GPRS	Right Cheek	1850.2	0.906	-2.50	30.70	30.60	1.023	0.927
		Right Cheek	1880	0.837	1.32	30.70	30.58	1.028	0.860
		Right Cheek	1909.8	0.842	2.61	30.70	30.21	1.119	0.943
PCS 1900	GPRS (GMSK, 3-Slot)	Back Side	1850.2	0.923	1.41	27.00	26.72	1.067	0.984
		Back Side	1880	0.836	-3.38	27.00	26.35	1.161	0.971
		Back Side	1909.8	0.840	-2.63	27.00	25.68	1.355	1.138
WCDMA Band IV	RMC	Right Cheek	1712.6	1.064	2.72	21.20	21.18	1.005	1.069
		Right Cheek	1740	1.022	-1.92	21.20	20.92	1.067	1.090
		Right Cheek	1752.4	0.997	-1.62	21.20	20.93	1.064	1.061
WCDMA Band IV	RMC	Back Side	1712.6	1.058	-0.50	21.20	21.18	1.005	1.063
		Back Side	1740	1.000	-3.22	21.20	20.92	1.067	1.067
		Back Side	1752.4	1.014	1.78	21.20	20.93	1.064	1.079
WCDMA Band V	HSDPA Subtest-1	Right Cheek	826.4	0.804	-1.22	19.50	19.41	1.021	0.821
		Right Cheek	836.4	0.733	-3.68	19.50	19.30	1.047	0.768
		Right Cheek	846.6	0.750	2.92	19.50	19.20	1.072	0.804
WCDMA Band V	HSDPA Subtest-1	Back Side	826.4	0.768	-3.95	19.50	19.41	1.021	0.784
		Back Side	836.4	0.748	1.41	19.50	19.30	1.047	0.783
		Back Side	846.6	0.733	3.60	19.50	19.20	1.072	0.785



Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Result 1g (W/Kg)	Power Drift (%)	Max. Turn-up Power (dBm)	Meas. Output Power (dBm)	Scaling Factor	Scaled SAR (W/Kg)
LTE Band 2	20M	QPSK	1	0	Right Cheek	1860	0.770	0.63	22.90	22.82	1.019	0.784
			1	0	Right Cheek	1880	0.780	2.56	22.60	22.55	1.012	0.789
			1	0	Right Cheek	1900	0.796	-2.98	23.60	23.50	1.023	0.815
LTE Band 4	20M	QPSK	1	0	Right Cheek	1720	0.766	-1.10	24.20	24.10	1.023	0.784
			1	0	Right Cheek	1732.5	0.780	-2.53	23.70	23.69	1.002	0.782
			1	0	Right Cheek	1745	0.785	3.08	23.60	23.52	1.019	0.800
LTE Band 4	20M	QPSK	1	0	Back Side	1720	0.813	-2.38	24.20	24.10	1.023	0.832
			1	0	Back Side	1732.5	0.809	0.61	23.70	23.69	1.002	0.811
			1	0	Back Side	1745	0.792	-1.44	23.60	23.52	1.019	0.807
LTE Band 12	10M	QPSK	1	0	Back Side	704	0.865	-1.00	24.30	24.27	1.007	0.871
			1	0	Back Side	707.5	0.747	2.49	24.30	23.80	1.122	0.838
			1	0	Back Side	711	0.828	3.26	24.30	24.10	1.047	0.867
LTE Band 71	20M	QPSK	1	0	Back Side	673	0.816	0.60	23.70	23.68	1.005	0.820
			1	0	Back Side	683	0.803	-0.56	24.30	24.24	1.014	0.814
			1	0	Back Side	688	0.788	2.36	23.80	23.76	1.009	0.795
LTE Band 2	20M	QPSK	1	0	Back Side	1860	0.891	-3.05	22.90	22.82	1.019	0.908
			1	0	Back Side	1880	0.871	0.10	22.60	22.55	1.012	0.881
			1	0	Back Side	1900	0.885	3.47	23.60	23.50	1.023	0.906
			50	0	Back Side	1860	0.718	3.32	22.50	22.13	1.089	0.782
			50	0	Back Side	1880	0.790	-2.53	22.50	22.41	1.021	0.807
			50	0	Back Side	1900	0.766	-0.28	22.50	22.25	1.059	0.811
			100	0	Back Side	1860	0.671	-2.59	22.30	22.14	1.038	0.696
			100	0	Back Side	1880	0.706	0.81	22.30	22.26	1.009	0.713
			100	0	Back Side	1900	0.697	-3.59	22.30	22.17	1.030	0.718
LTE Band 5	10M	QPSK	1	0	Back Side	829	0.897	-1.99	24.50	24.02	1.117	1.002
			1	0	Back Side	836.5	0.895	2.96	24.50	24.05	1.109	0.993
			1	0	Back Side	844	1.018	2.76	24.50	24.43	1.016	1.035
			25	0	Back Side	829	0.796	3.38	24.00	23.40	1.148	0.914
			25	0	Back Side	836.5	0.829	3.61	24.00	23.42	1.143	0.947
			25	0	Back Side	844	0.883	-2.70	24.00	23.66	1.081	0.955
			50	0	Back Side	829	0.808	0.30	22.10	22.01	1.021	0.825
			50	0	Back Side	836.5	0.816	3.40	22.50	22.31	1.045	0.852
			50	0	Back Side	844	0.824	-0.73	23.00	22.90	1.023	0.843
LTE Band 66	20M	QPSK	1	0	Back Side	1720	0.892	-3.81	24.20	24.10	1.023	0.913
			1	0	Back Side	1745	0.885	1.47	23.60	23.57	1.007	0.891
			1	0	Back Side	1770	0.885	-3.76	23.50	23.38	1.028	0.910
			50	0	Back Side	1720	0.782	-1.77	22.50	22.39	1.026	0.802
			50	0	Back Side	1745	0.820	-2.89	22.50	22.41	1.021	0.837
			50	0	Back Side	1770	0.813	3.96	22.20	22.16	1.009	0.821
			100	0	Back Side	1720	0.756	0.32	22.60	22.52	1.019	0.770
			100	0	Back Side	1745	0.735	2.58	22.20	22.13	1.016	0.747
			100	0	Back Side	1770	0.729	0.40	22.20	22.19	1.002	0.731



12.4 Repeated SAR measurement

Band	Mode	Test Position	Ch.	Original Measured SAR 1g (W/kg)	1 st Repeated SAR 1g	Ratio
GSM 850	GPRS	Right Cheek	824.2	1.063	1.017	1.046
		Right Cheek	836.6	0.949	0.939	1.010
		Right Cheek	848.8	0.956	0.933	1.025
GSM 850	GPRS (GMSK, 2-Slot)	Back Side	824.2	1.084	1.082	1.002
		Back Side	836.6	0.954	0.909	1.050
		Back Side	848.8	0.961	0.946	1.015
PCS 1900	GPRS	Right Cheek	1850	0.928	0.906	1.024
		Right Cheek	1880	0.838	0.837	1.002
		Right Cheek	1910	0.844	0.842	1.002
PCS 1900	GPRS	Right Cheek	1850	0.928	0.923	1.006
		Right Cheek	1880	0.838	0.836	1.003
		Right Cheek	1910	0.844	0.840	1.005
WCDMA Band IV	RMC	Right Cheek	1713	1.111	1.064	1.044
		Right Cheek	1740	1.033	1.022	1.011
		Right Cheek	1752	1.045	0.997	1.048
WCDMA Band IV	RMC	Right Cheek	1713	1.111	1.058	1.050
		Right Cheek	1740	1.033	1.000	1.033
		Right Cheek	1752	1.045	1.014	1.030
WCDMA Band V	HSDPA Subtest-1	Right Cheek	826.4	0.805	0.804	1.002
		Right Cheek	836.4	0.759	0.733	1.035
		Right Cheek	846.6	0.764	0.750	1.019
WCDMA Band V	HSDPA Subtest-1	Right Cheek	826.4	0.805	0.768	1.048
		Right Cheek	836.4	0.759	0.748	1.015
		Right Cheek	846.6	0.764	0.733	1.042



Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Original Measured SAR 1g (W/kg)	1 st Repeated SAR 1g	Ratio
LTE Band 2	20M	QPSK	1	0	Right Cheek	1860	0.794	0.770	1.032
			1	0	Right Cheek	1880	0.802	0.780	1.028
			1	0	Right Cheek	1900	0.807	0.796	1.014
LTE Band 4	20M	QPSK	1	0	Right Cheek	1720	0.798	0.766	1.041
			1	0	Right Cheek	1732.5	0.789	0.780	1.012
			1	0	Right Cheek	1745	0.791	0.785	1.008
LTE Band 4	20M	QPSK	1	0	Back Side	1720	0.833	0.813	1.025
			1	0	Back Side	1732.5	0.821	0.809	1.015
			1	0	Back Side	1745	0.826	0.792	1.043
LTE Band 12	10M	QPSK	1	0	Back Side	704	0.877	0.865	1.013
			1	0	Back Side	707.5	0.781	0.747	1.046
			1	0	Back Side	711	0.840	0.828	1.014
LTE Band 71	20M	QPSK	1	0	Back Side	673	0.816	0.816	1.000
			1	0	Back Side	683	0.836	0.803	1.041
			1	0	Back Side	688	0.824	0.788	1.046
LTE Band 2	20M	QPSK	1	0	Back Side	1860	0.893	0.891	1.002
			1	0	Back Side	1880	0.901	0.871	1.034
			1	0	Back Side	1900	0.912	0.885	1.031
			50	0	Back Side	1860	0.751	0.718	1.046
			50	0	Back Side	1880	0.809	0.790	1.024
			50	0	Back Side	1900	0.773	0.766	1.010
			100	0	Back Side	1860	0.689	0.671	1.026
			100	0	Back Side	1880	0.714	0.706	1.012
			100	0	Back Side	1900	0.699	0.697	1.002
LTE Band 5	10M	QPSK	1	0	Back Side	829	0.924	0.897	1.030
			1	0	Back Side	836.5	0.916	0.895	1.023
			1	0	Back Side	844	1.021	1.018	1.003
			25	0	Back Side	829	0.831	0.796	1.044
			25	0	Back Side	836.5	0.845	0.829	1.019
			25	0	Back Side	844	0.9	0.883	1.020
			50	0	Back Side	829	0.809	0.808	1.002
			50	0	Back Side	836.5	0.819	0.816	1.003
			50	0	Back Side	844	0.843	0.824	1.023
LTE Band 66	20M	QPSK	1	0	Back Side	1720	0.933	0.892	1.046
			1	0	Back Side	1745	0.912	0.885	1.031
			1	0	Back Side	1770	0.921	0.885	1.040
			50	0	Back Side	1720	0.801	0.782	1.024
			50	0	Back Side	1745	0.825	0.820	1.006
			50	0	Back Side	1770	0.816	0.813	1.003
			100	0	Back Side	1720	0.761	0.756	1.006
			100	0	Back Side	1745	0.741	0.735	1.008
			100	0	Back Side	1770	0.753	0.729	1.033

Note:

1. Per KDB 865664 D01, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 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 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 ≥ 1.45 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. GSM + Bluetooth
	2. WCDMA + Bluetooth
	3. LTE + Bluetooth
Body	1. GSM + Bluetooth
	2. WCDMA + Bluetooth
	3. LTE + Bluetooth

NOTE:

- For simultaneous transmission at head and body exposure position, 2 transmitters simultaneous transmission was the worst state.
- If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.
- 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:
 - (max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm) · [$\sqrt{f}$ (GHz) / x] W/kg for test separation distances ≤ 50 mm;
Where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR.
 - 0.4W/Kg for 1-g SAR and 1.0W/Kg for 10-g SAR, when the separation distance is >50mm.

Estimated SAR		Maximum Turn-up Power		Antenna to user(mm)	Frequency(GHz)	Stand Alone SAR(1g) [W/kg]
		dBm	mW			
BT	Head	7.3	5.370	5	2.48	0.226
	Body			5	2.48	0.226

Simultaneous Mode	Position	Mode	Max. 1-g SAR	1-g Sum SAR
			(W/kg)	(W/kg)
GSM + Bluetooth	Head	GSM	1.068	1.294
		BT	0.226	
	Body	GSM	1.109	1.335
		BT	0.226	
WCDMA + Bluetooth	Head	WCDMA	1.116	1.342
		BT	0.226	
	Body	WCDMA	0.946	1.172
		BT	0.226	
LTE + Bluetooth	Head	LTE	0.826	1.052
		BT	0.226	
	Body	LTE	1.038	1.264
		BT	0.226	

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
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	SHWDCP	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)

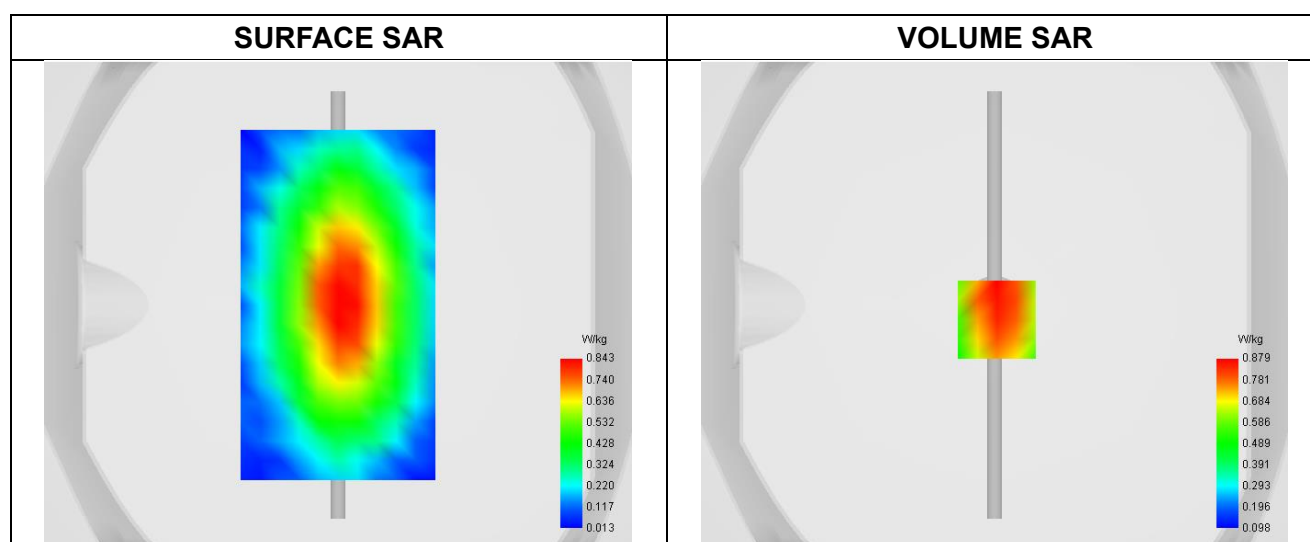
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2025-12-22

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW750
Channels	Middle
Signal	CW
Frequency (MHz)	750.000
Relative permittivity	42.76
Conductivity (S/m)	0.91
Probe	2225-EPGO-450
ConvF	1.08
Crest factor:	1:1

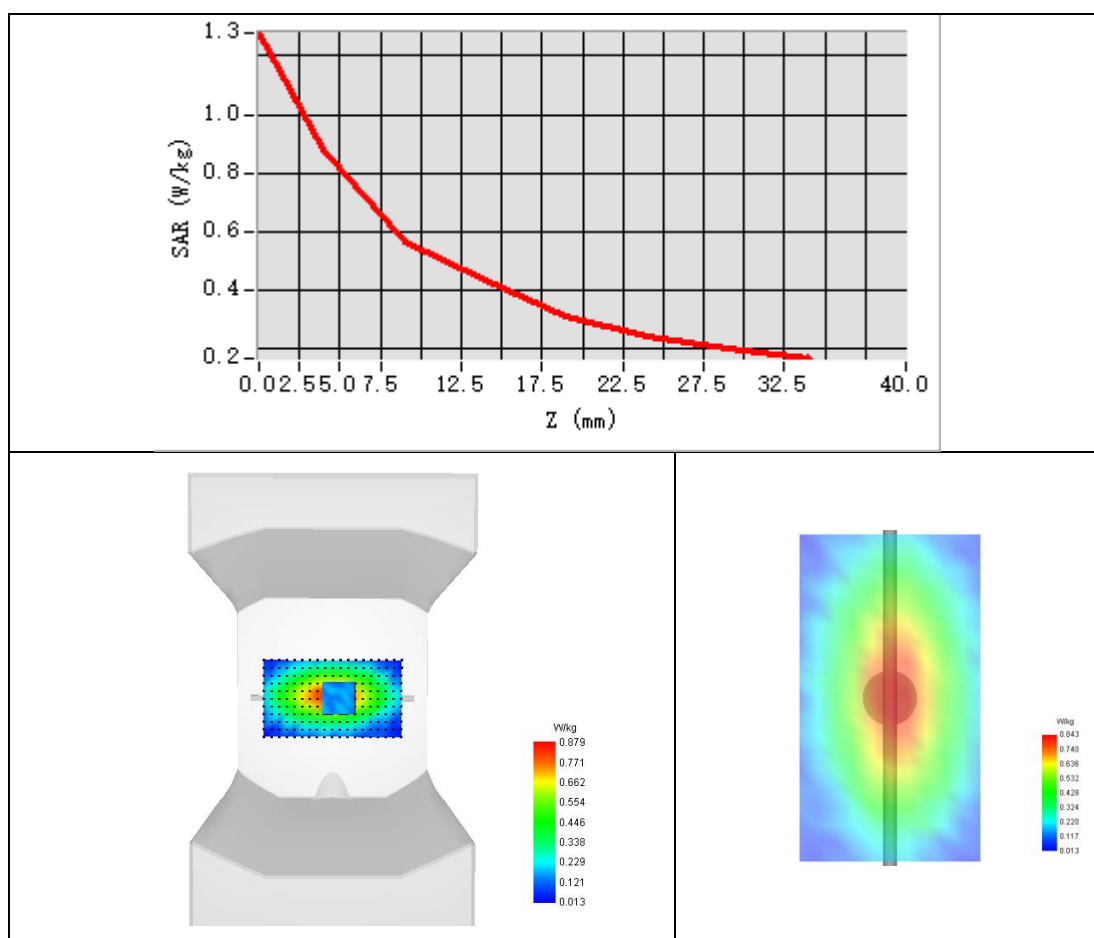


Maximum location: X=1.00, Y=-6.00 ; SAR Peak: 1.20 W/kg

SAR 10g (W/Kg)	0.586
SAR 1g (W/Kg)	0.833



Z Axis Scan





System Performance Check Data (835MHz)

Type: Phone measurement (Complete)

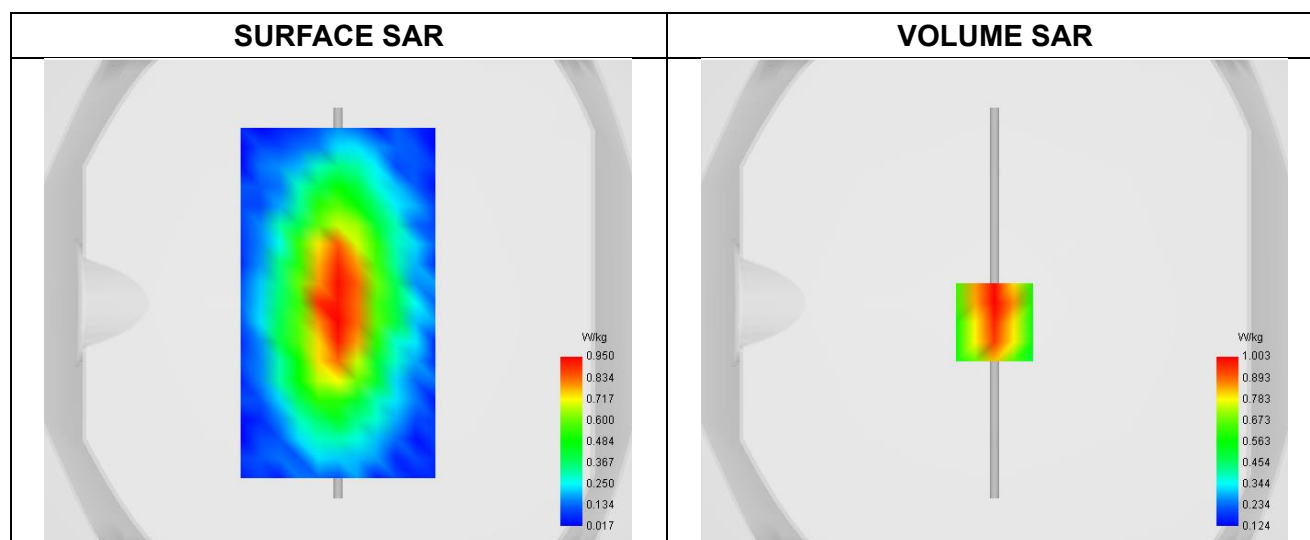
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2025-12-12

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW835
Channels	Middle
Signal	CW
Frequency (MHz)	835.000
Relative permittivity	41.89
Conductivity (S/m)	0.89
Probe	2225-EPGO-450
ConvF	1.02
Crest factor:	1:1

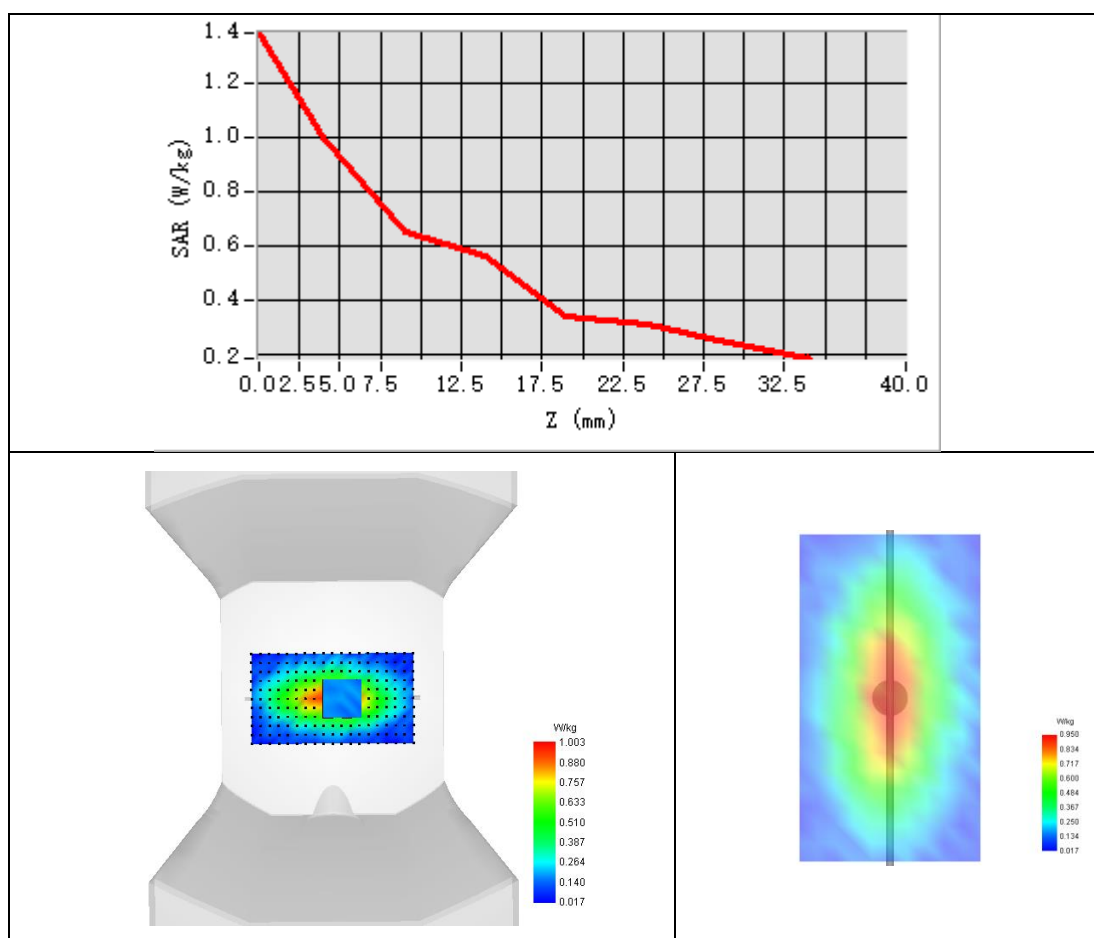


Maximum location: X=0.00, Y=-8.00 ; SAR Peak: 1.48 W/kg

SAR 10g (W/Kg)	0.582
SAR 1g (W/Kg)	0.955



Z Axis Scan





System Performance Check Data (835MHz)

Type: Phone measurement (Complete)

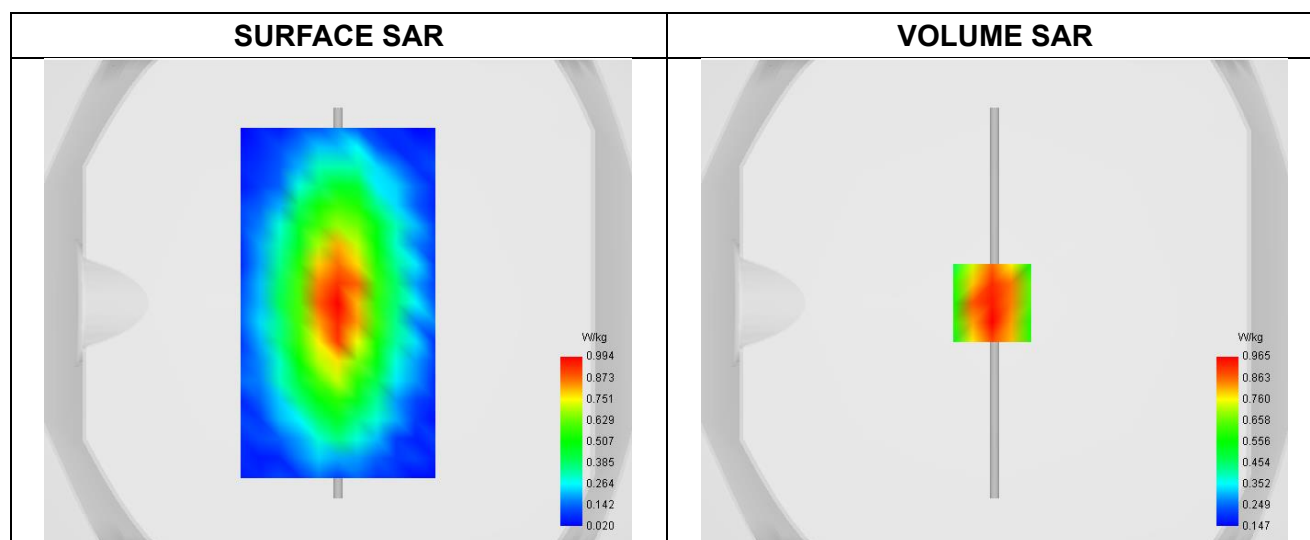
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2025-12-10

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW835
Channels	Middle
Signal	CW
Frequency (MHz)	835.000
Relative permittivity	42.19
Conductivity (S/m)	0.88
Probe	2225-EPGO-450
ConvF	1.02
Crest factor:	1:1

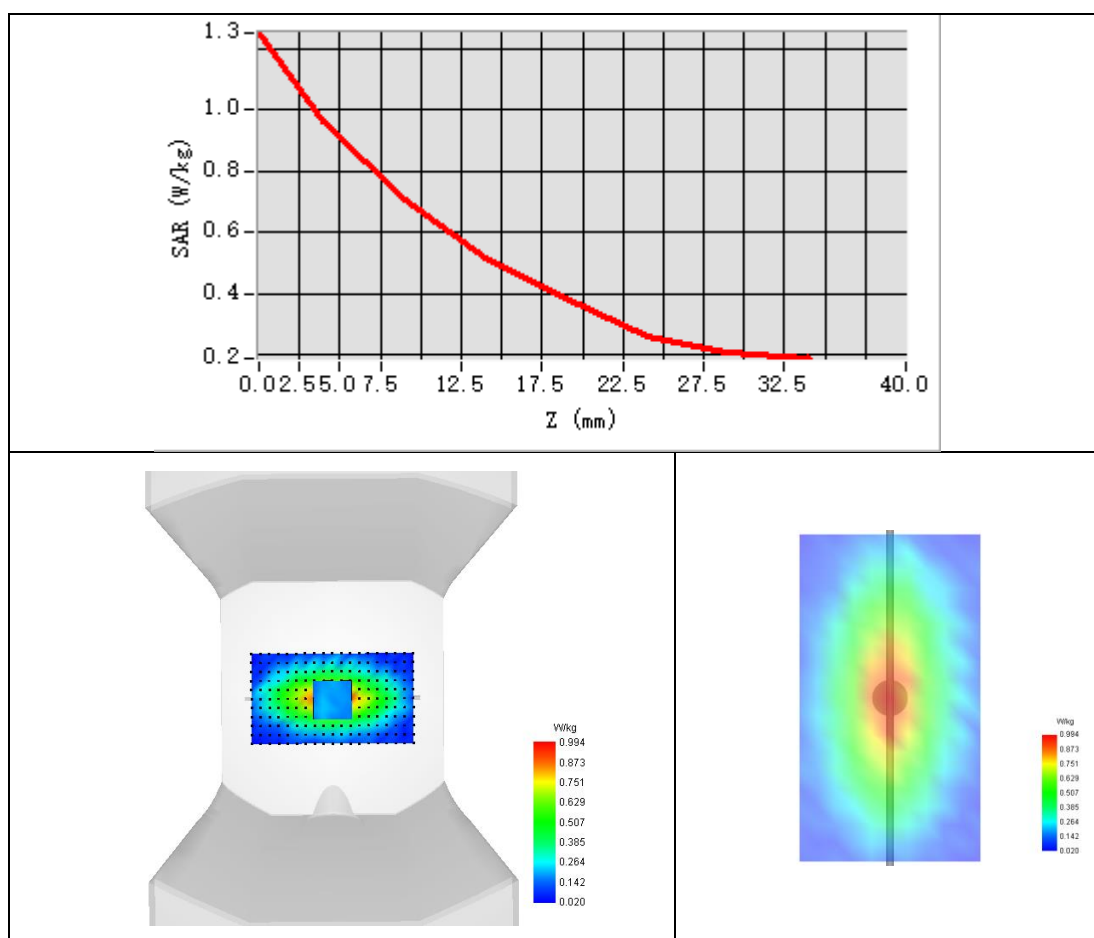


Maximum location: X=-1.00, Y=0.00 ; SAR Peak: 1.29W/kg

SAR 10g (W/Kg)	0.597
SAR 1g (W/Kg)	0.970



Z Axis Scan





System Performance Check Data (1800MHz)

Type: Phone measurement (Complete)

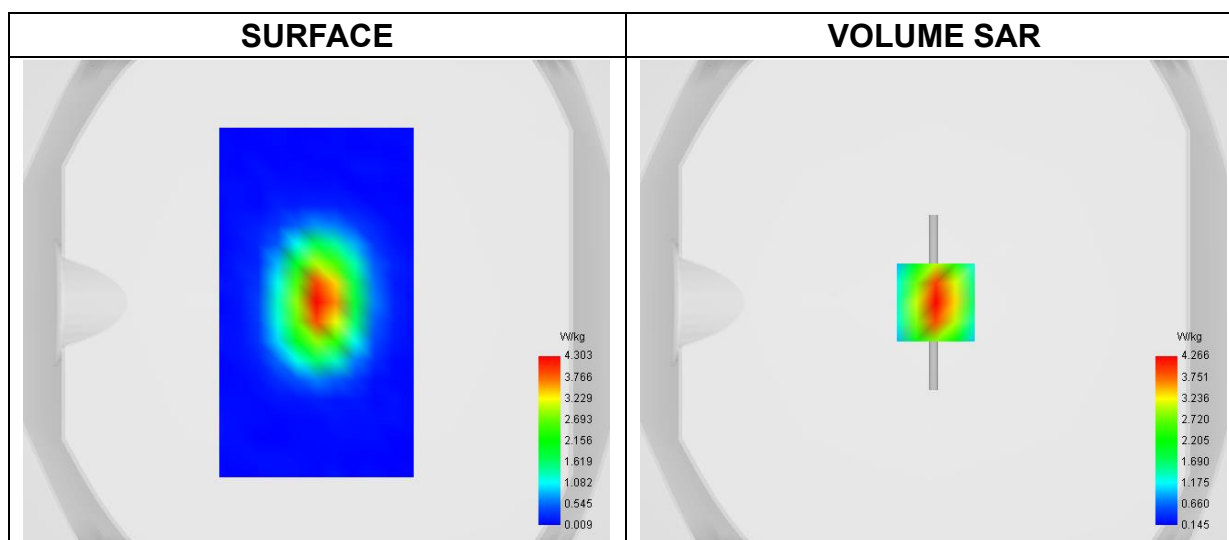
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement:2025-12-23

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW1800
Channels	Middle
Signal	CW
Frequency (MHz)	1800.000
Relative permittivity	40.68
Conductivity (S/m)	1.44
Probe	2225-EPGO-450
ConvF	1.21
Crest factor:	1:1

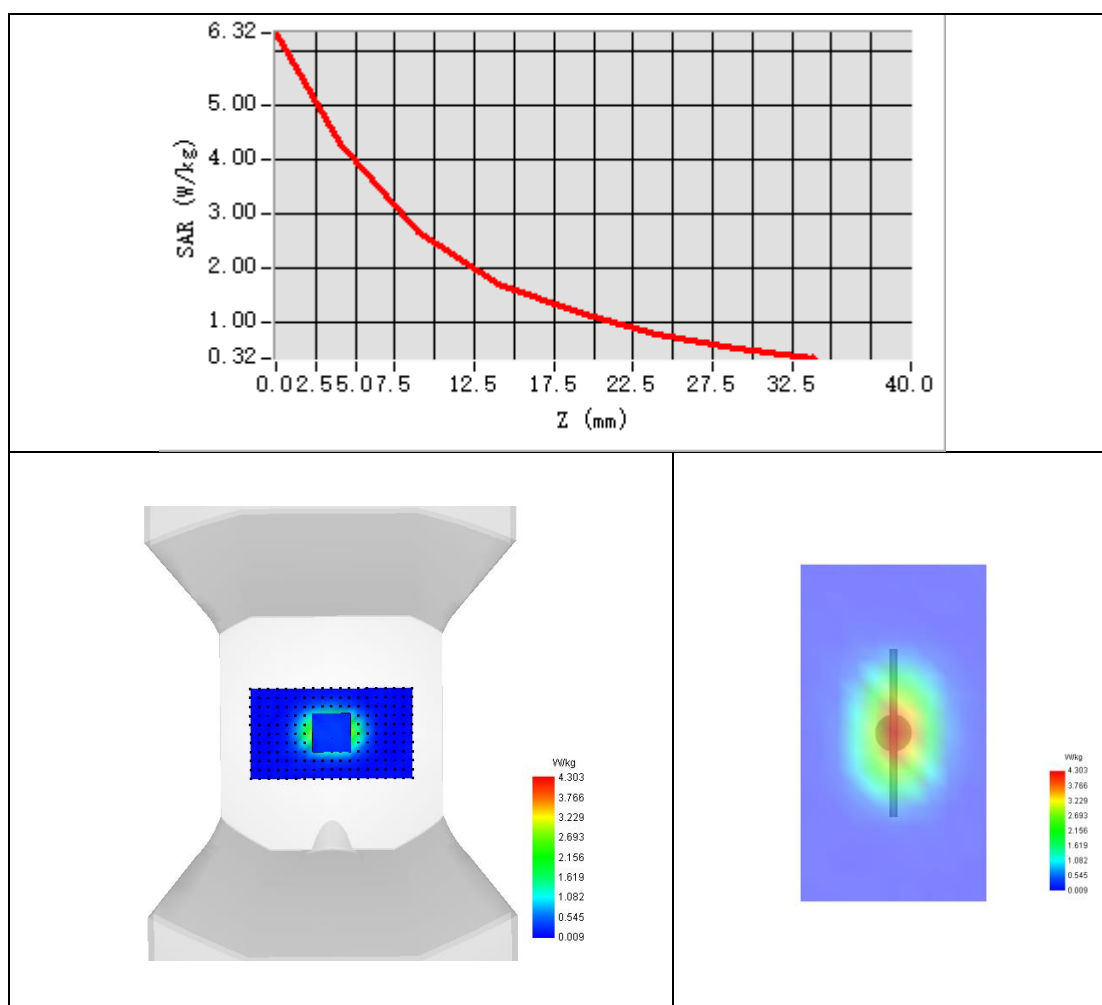


Maximum location: X=1.00, Y=0.00 ; SAR Peak: 6.27 W/kg

SAR 10g (W/Kg)	1.866
SAR 1g (W/Kg)	3.660



Z Axis Scan





System Performance Check Data (1800MHz)

Type: Phone measurement (Complete)

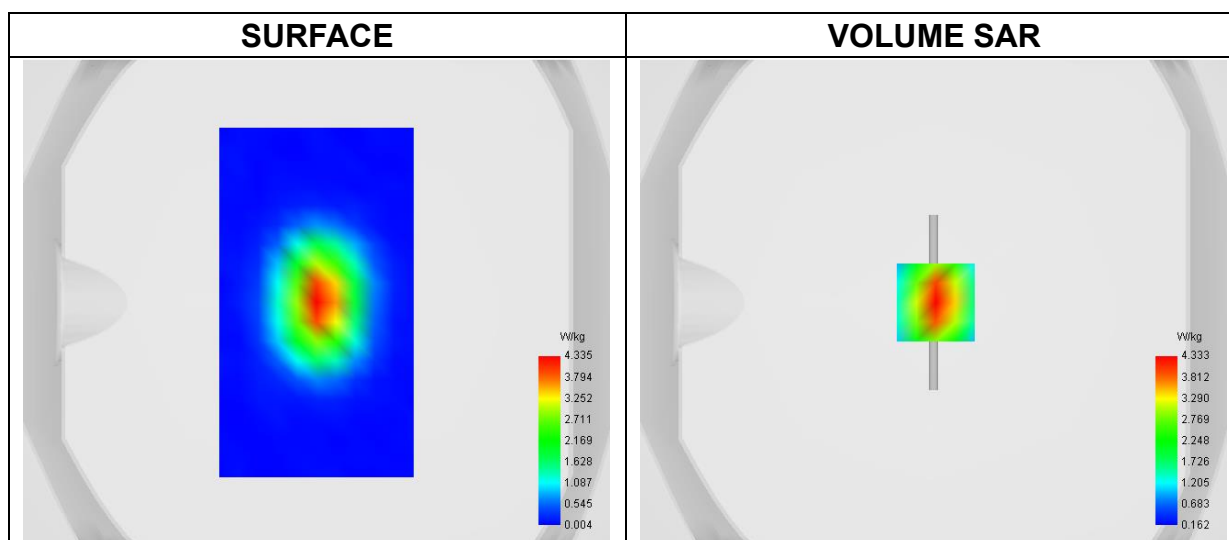
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement:2025-12-21

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW1800
Channels	Middle
Signal	CW
Frequency (MHz)	1800.000
Relative permittivity	40.45
Conductivity (S/m)	1.41
Probe	2225-EPGO-450
ConvF	1.21
Crest factor:	1:1

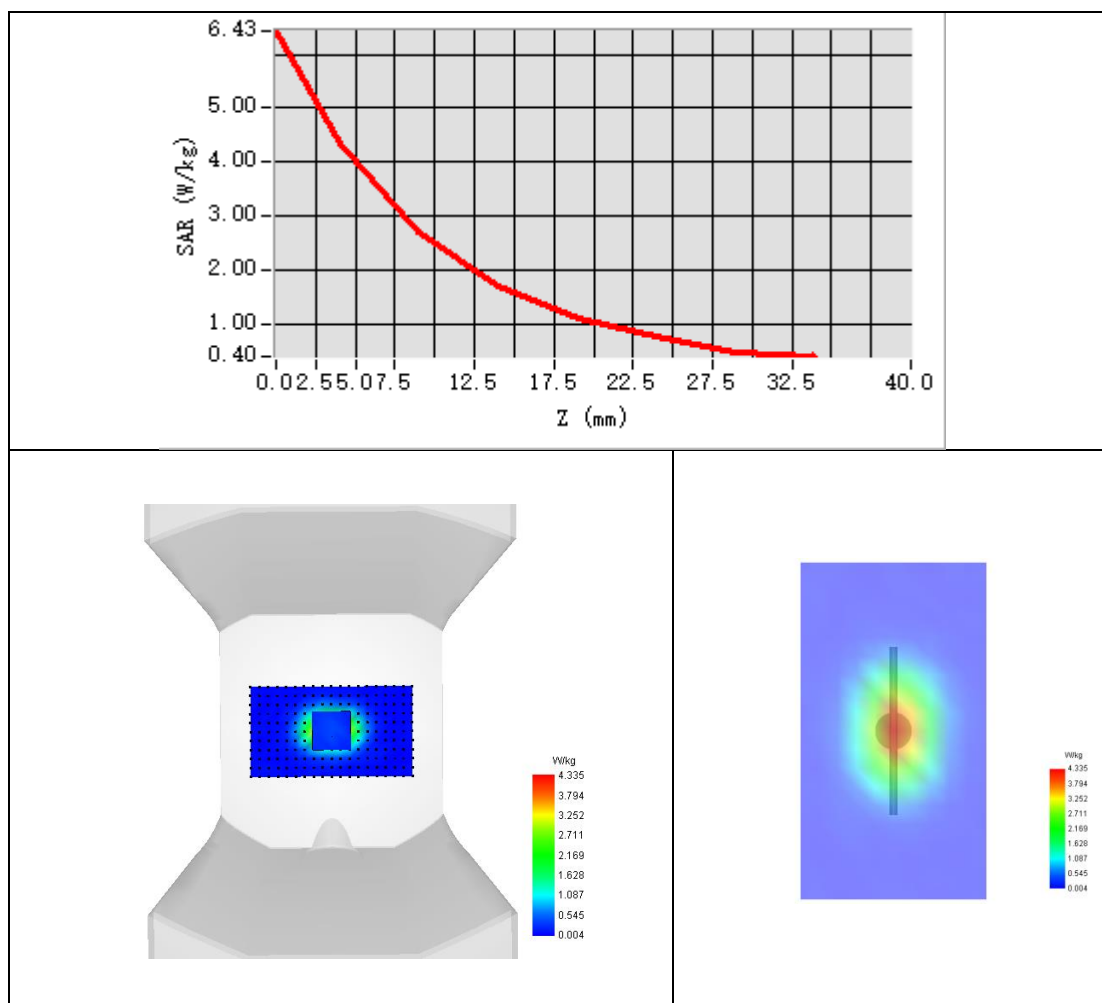


Maximum location: X=1.00, Y=0.00 ; SAR Peak: 6.42 W/kg

SAR 10g (W/Kg)	1.915
SAR 1g (W/Kg)	3.643



Z Axis Scan





System Performance Check Data (1900MHz)

Type: Phone measurement (Complete)

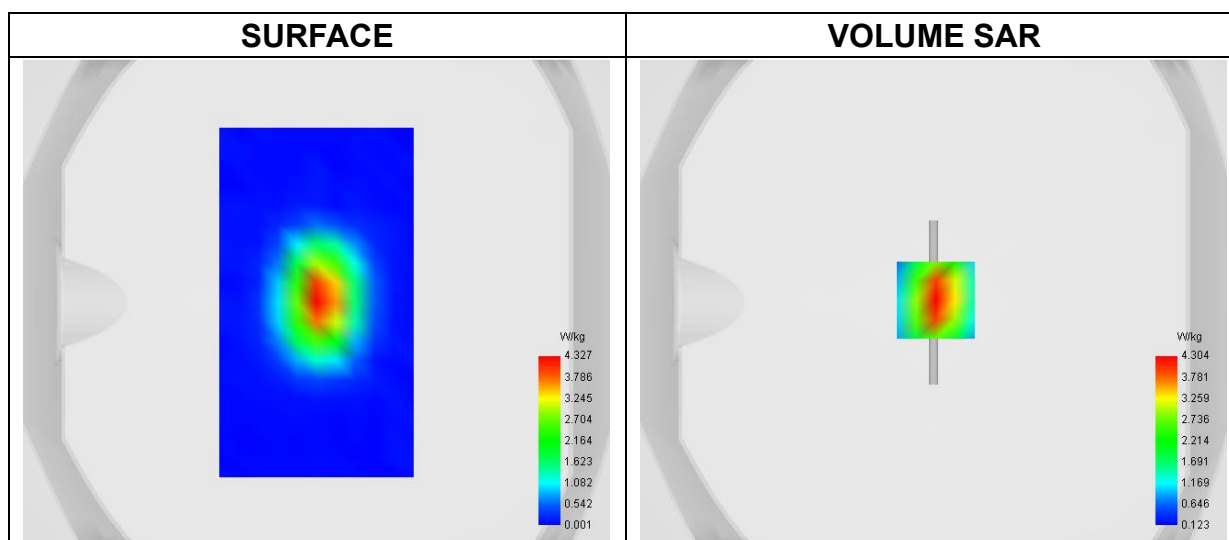
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement:2025-12-11

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW1900
Channels	Middle
Signal	CW
Frequency (MHz)	1900.000
Relative permittivity	40.94
Conductivity (S/m)	1.37
Probe	2225-EPGO-450
ConvF	1.34
Crest factor:	1:1

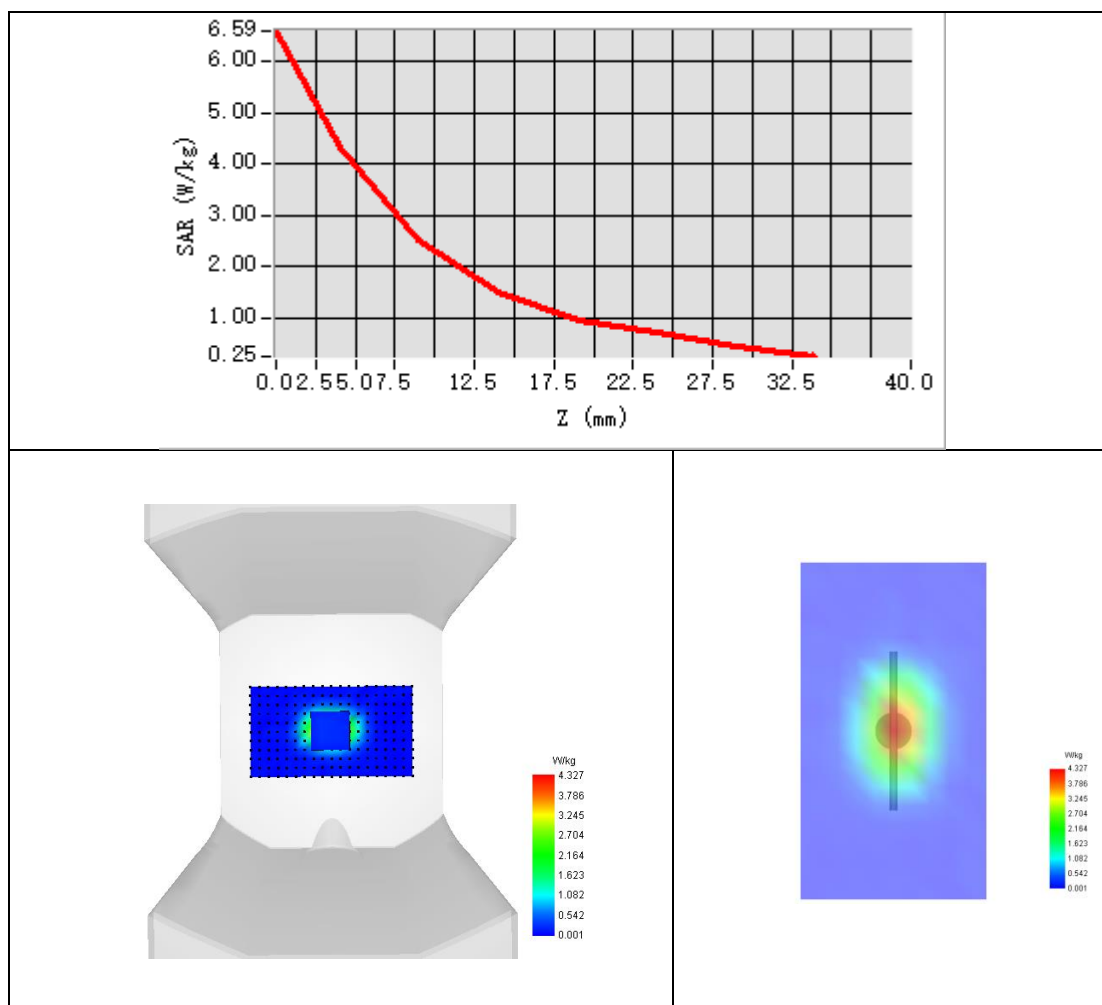


Maximum location: X=1.00, Y=1.00 ; SAR Peak: 6.64 W/kg

SAR 10g (W/Kg)	2.086
SAR 1g (W/Kg)	3.997



Z Axis Scan





System Performance Check Data (2450MHz)

Type: Phone measurement (Complete)

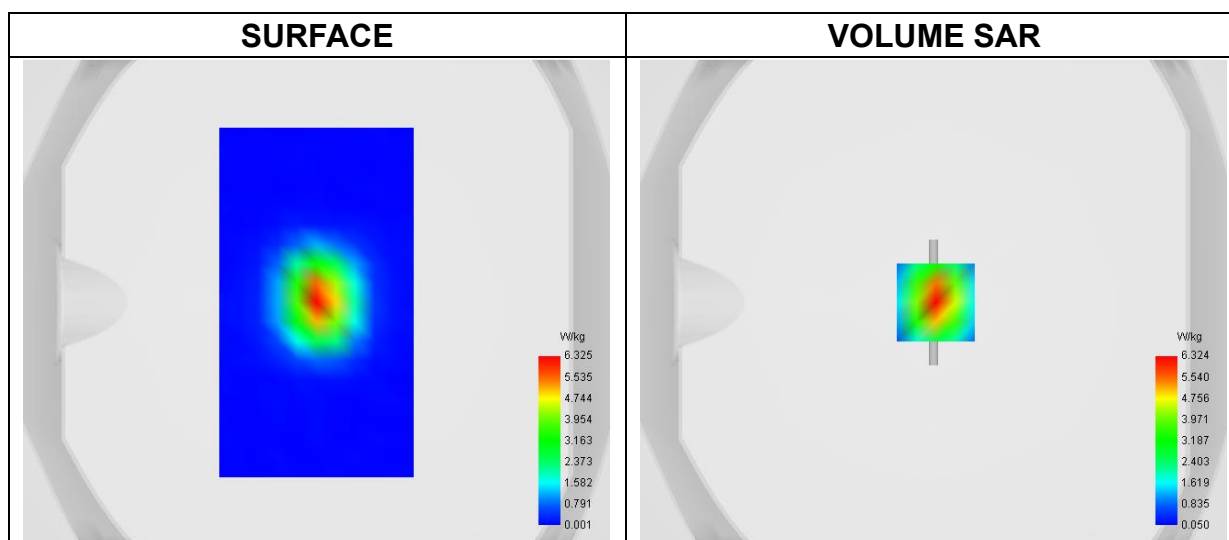
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement:2025-12-23

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW2450
Channels	Middle
Signal	CW
Frequency (MHz)	2450.000
Relative permittivity	40.03
Conductivity (S/m)	1.82
Probe	2225-EPGO-450
ConvF	1.51
Crest factor:	1:1

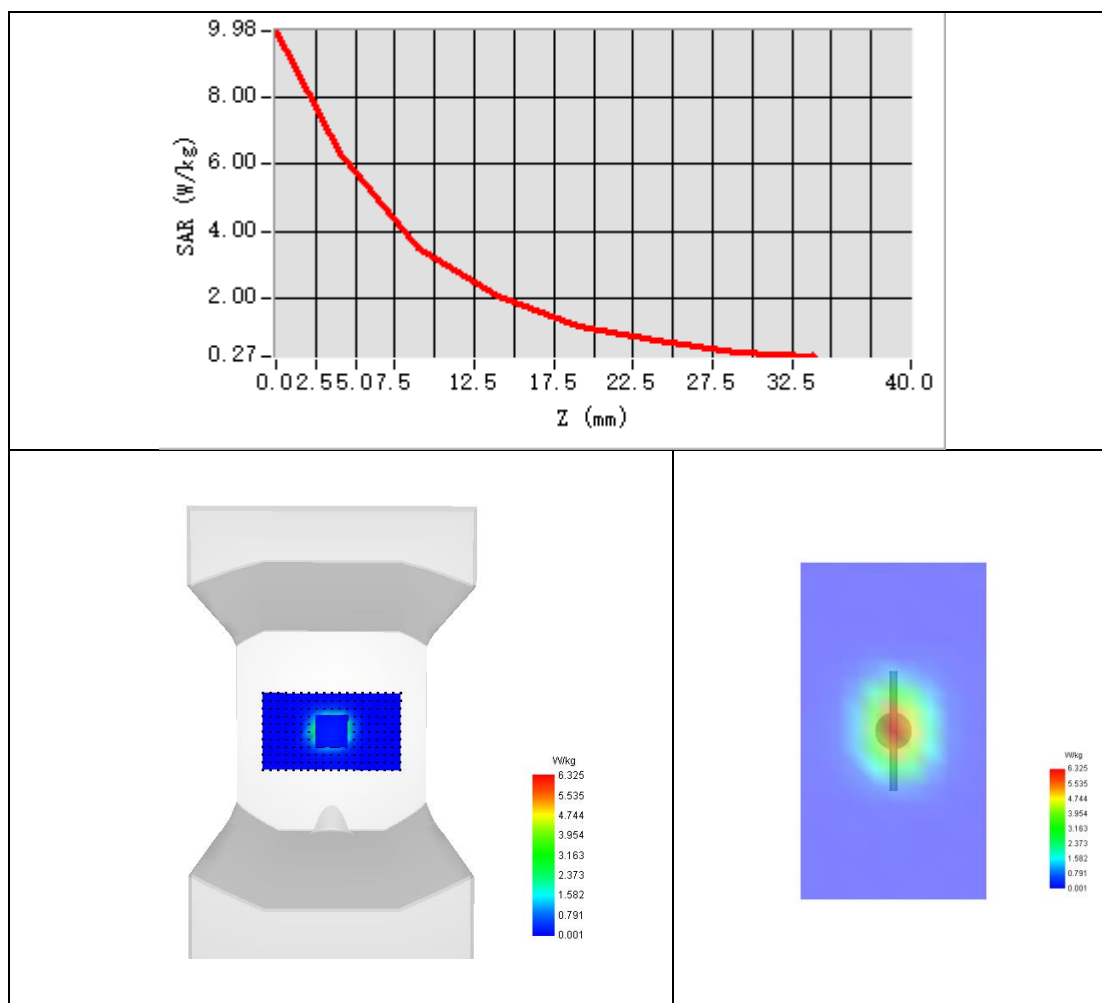


Maximum location: X=1.00, Y=0.00 ; SAR Peak: 9.92 W/kg

SAR 10g (W/Kg)	2.465
SAR 1g (W/Kg)	5.305



Z Axis Scan





System Performance Check Data (2600MHz)

Type: Phone measurement (Complete)

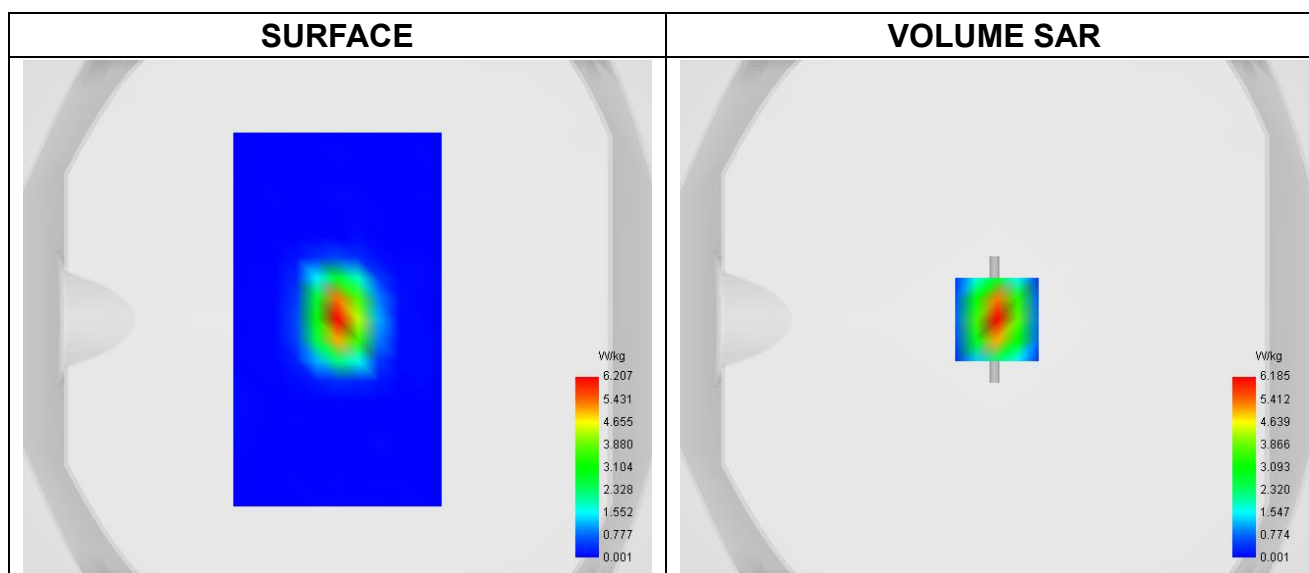
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement:2025-12-23

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW2600
Channels	Middle
Signal	CW
Frequency (MHz)	2600.000
Relative permittivity	39.75
Conductivity (S/m)	1.98
Probe	2225-EPGO-450
ConvF	1.44
Crest factor:	1:1

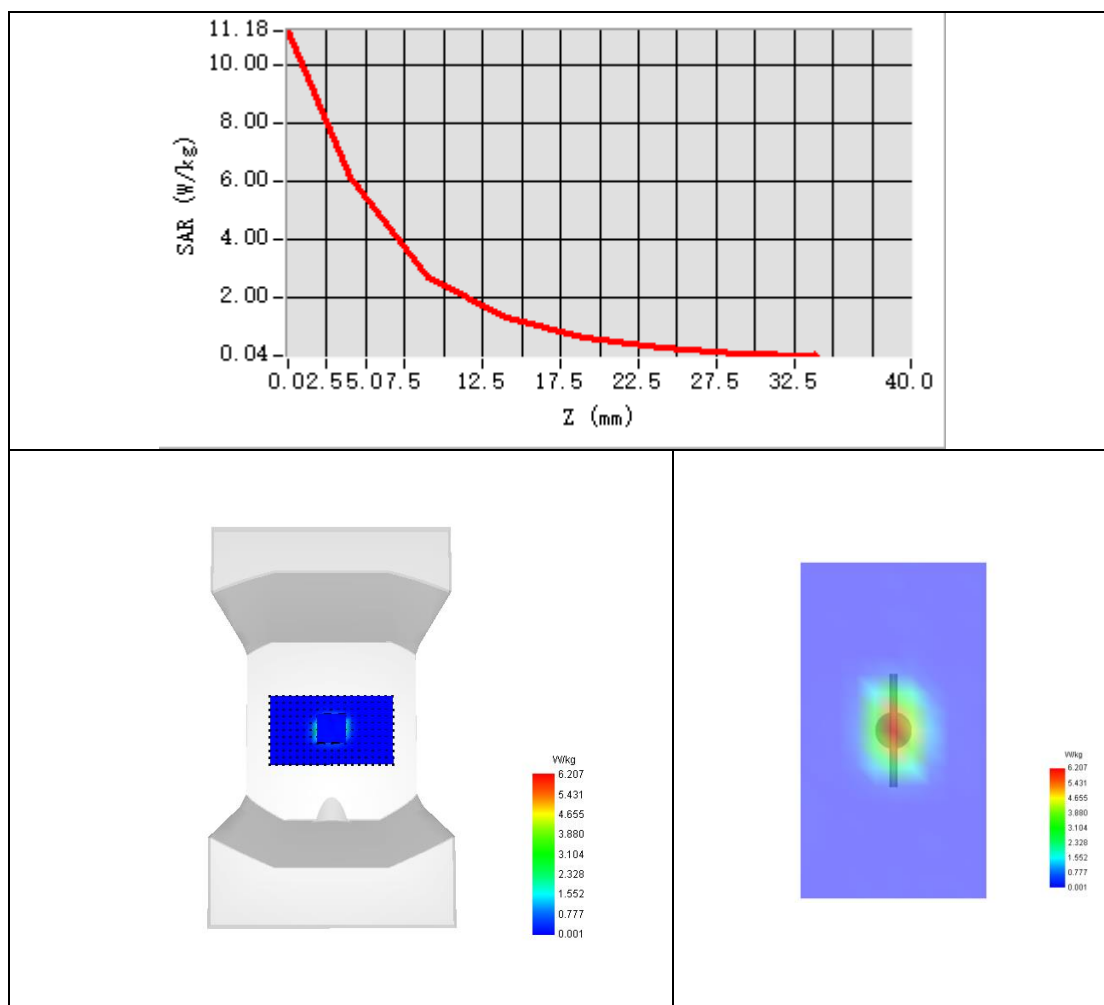


Maximum location: X=1.00, Y=0.00 ; SAR Peak: 10.99 W/kg

SAR 10g (W/Kg)	2.527
SAR 1g (W/Kg)	5.622



Z Axis Scan



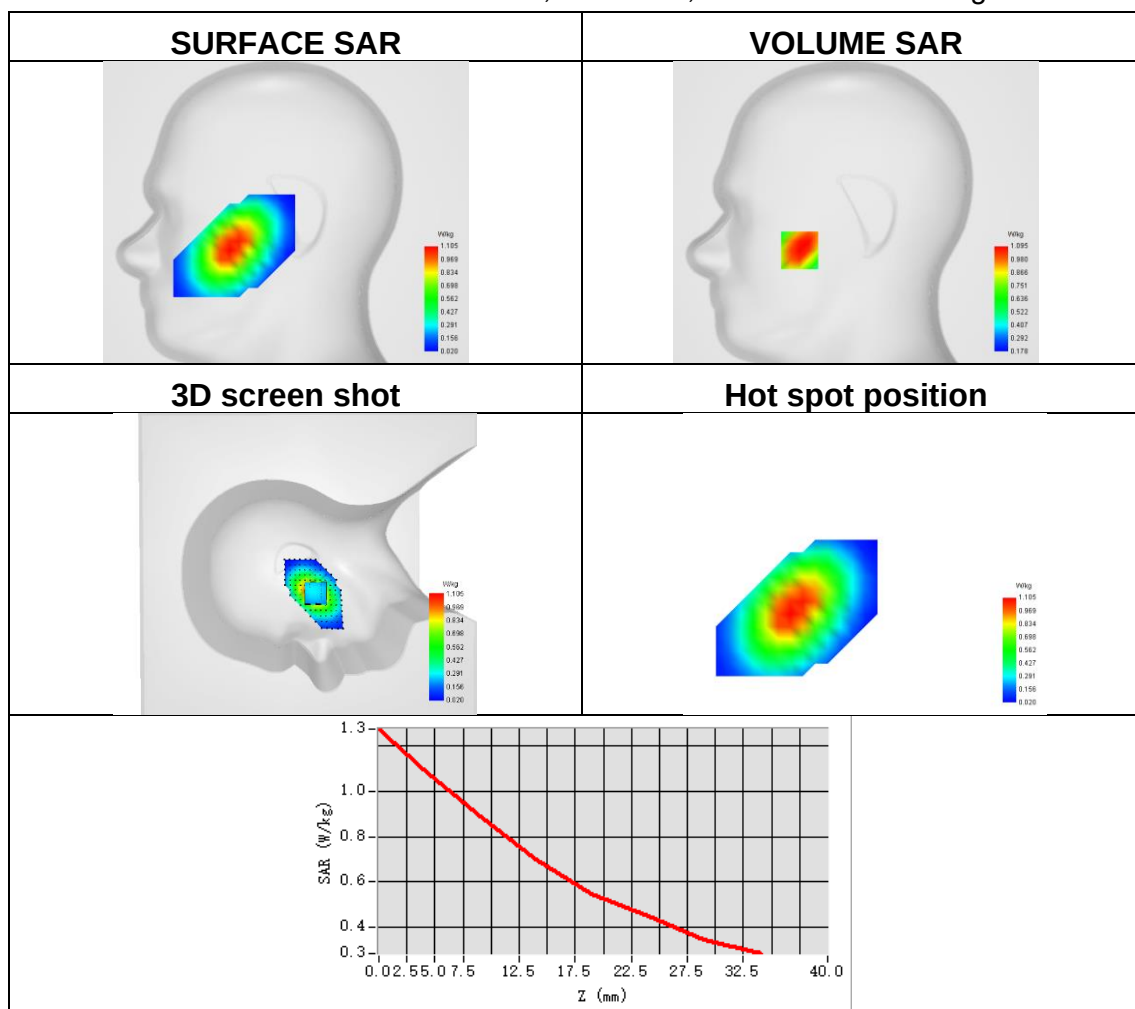


Appendix B. SAR Test Plots

Plot 1:

Test Date	2025-12-12
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	GPRS850
Signal	TDMA (GPRS)
Frequency	824.2
SAR 10g (W/Kg)	0.784
SAR 1g (W/Kg)	1.060
ConvF	1.02
Relative permittivity	41.89
Conductivity (S/m)	0.89

Maximum location: X=-48.00, Y=-32.00 ; SAR Peak: 1.35 W/kg

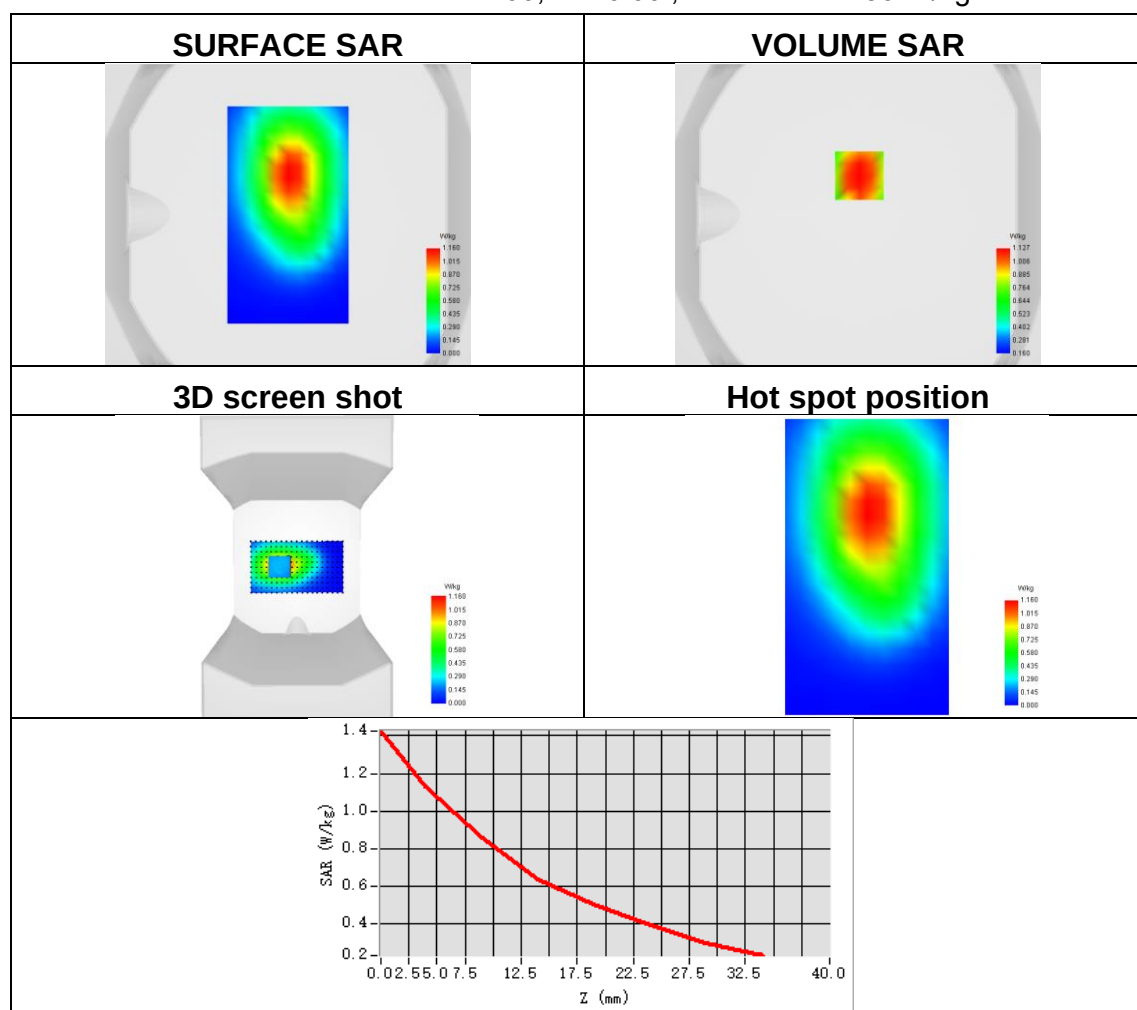




Plot 2:

Test Date	2025-12-12
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	GPRS850
Signal	TDMA (GPRS)
Frequency	824.2
SAR 10g (W/Kg)	0.687
SAR 1g (W/Kg)	1.084
ConvF	1.02
Relative permittivity	41.89
Conductivity (S/m)	0.89

Maximum location: X=1.00, Y=26.00 ; SAR Peak: 1.50 W/kg

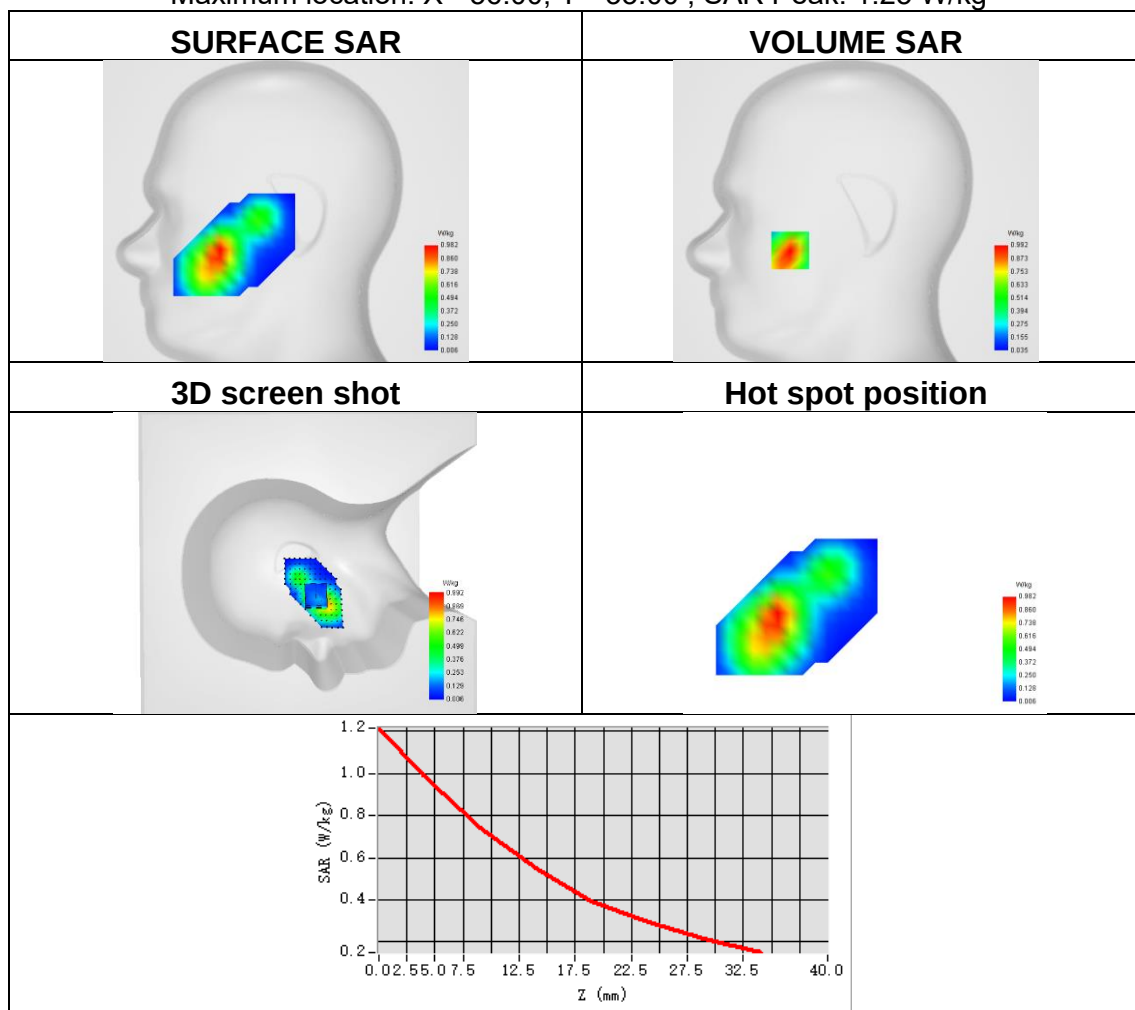




Plot 3:

Test Date	2025-12-21
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	GPRS1900
Signal	TDMA (GPRS)
Frequency	1850.2
SAR 10g (W/Kg)	0.618
SAR 1g (W/Kg)	0.928
ConvF	1.21
Relative permittivity	40.45
Conductivity (S/m)	1.41

Maximum location: X=-56.00, Y=-33.00 ; SAR Peak: 1.25 W/kg

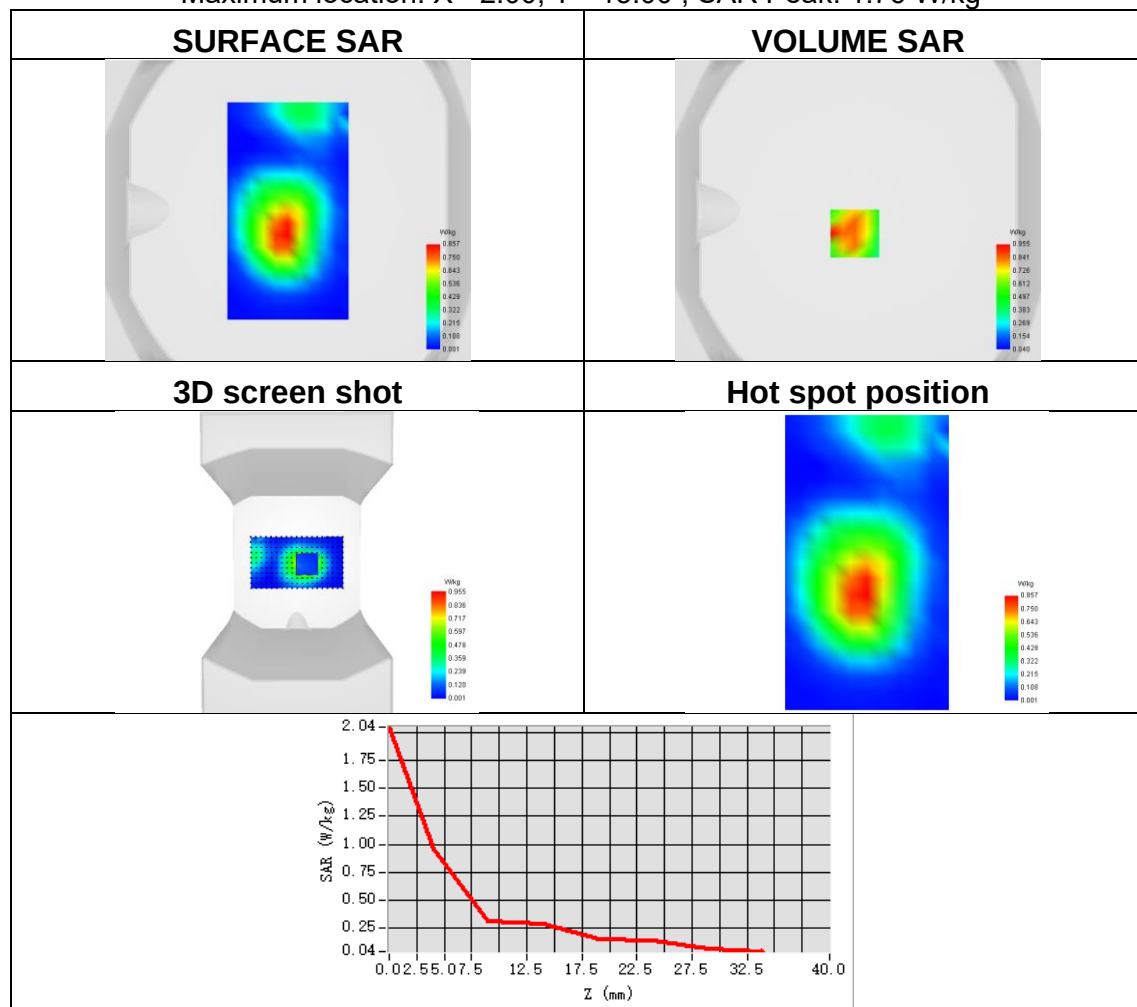




Plot 4:

Test Date	2025-12-21
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	GPRS1900
Signal	TDMA (GPRS)
Frequency	1850.2
SAR 10g (W/Kg)	0.499
SAR 1g (W/Kg)	0.874
ConvF	1.21
Relative permittivity	40.94
Conductivity (S/m)	1.37

Maximum location: X=-2.00, Y=-15.00 ; SAR Peak: 1.76 W/kg

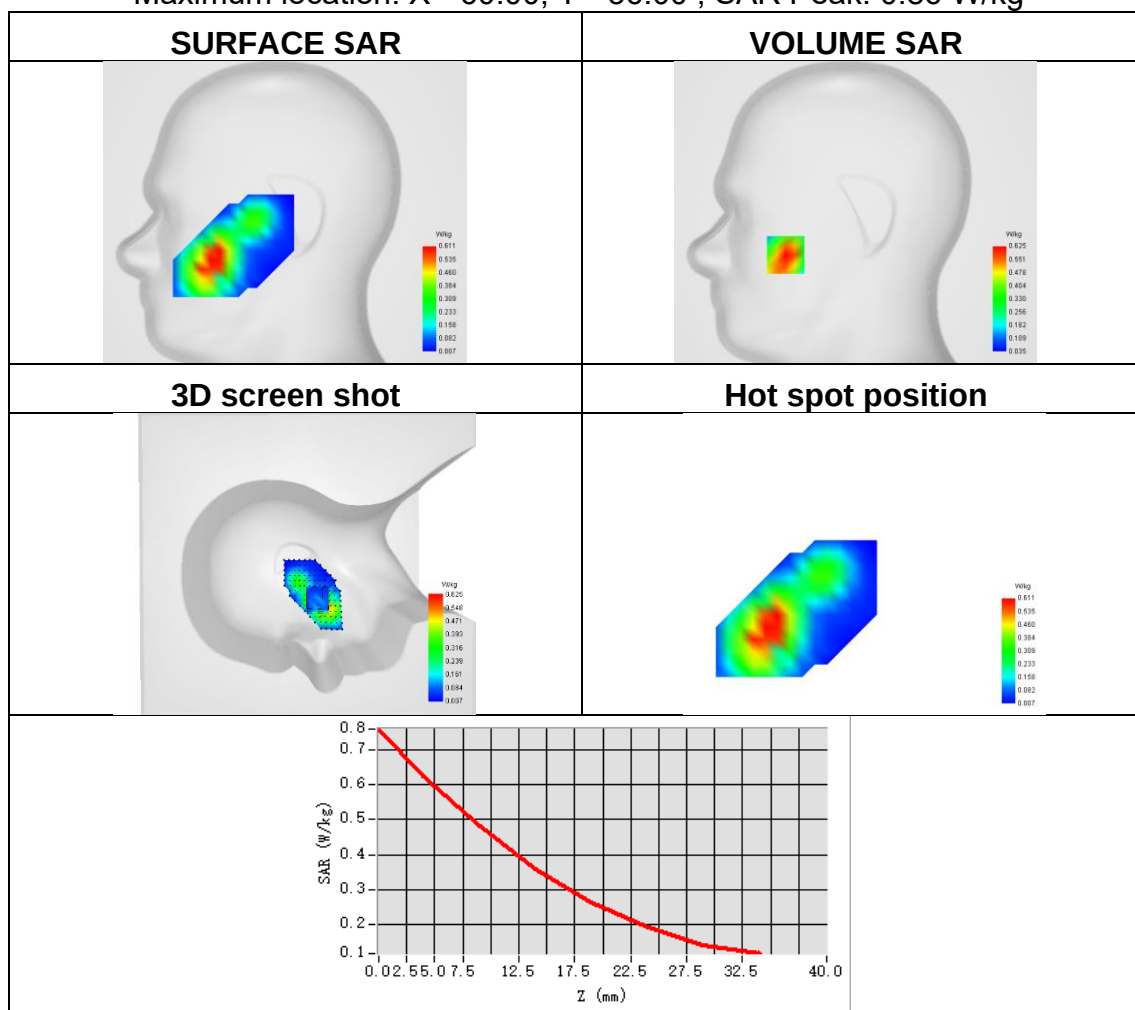




Plot 5:

Test Date	2025-12-21
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	Band 2 (1900)
Signal	WCDMA
Frequency	1852.4
SAR 10g (W/Kg)	0.392
SAR 1g (W/Kg)	0.600
ConvF	1.21
Relative permittivity	40.94
Conductivity (S/m)	1.37

Maximum location: X=-60.00, Y=-36.00 ; SAR Peak: 0.86 W/kg

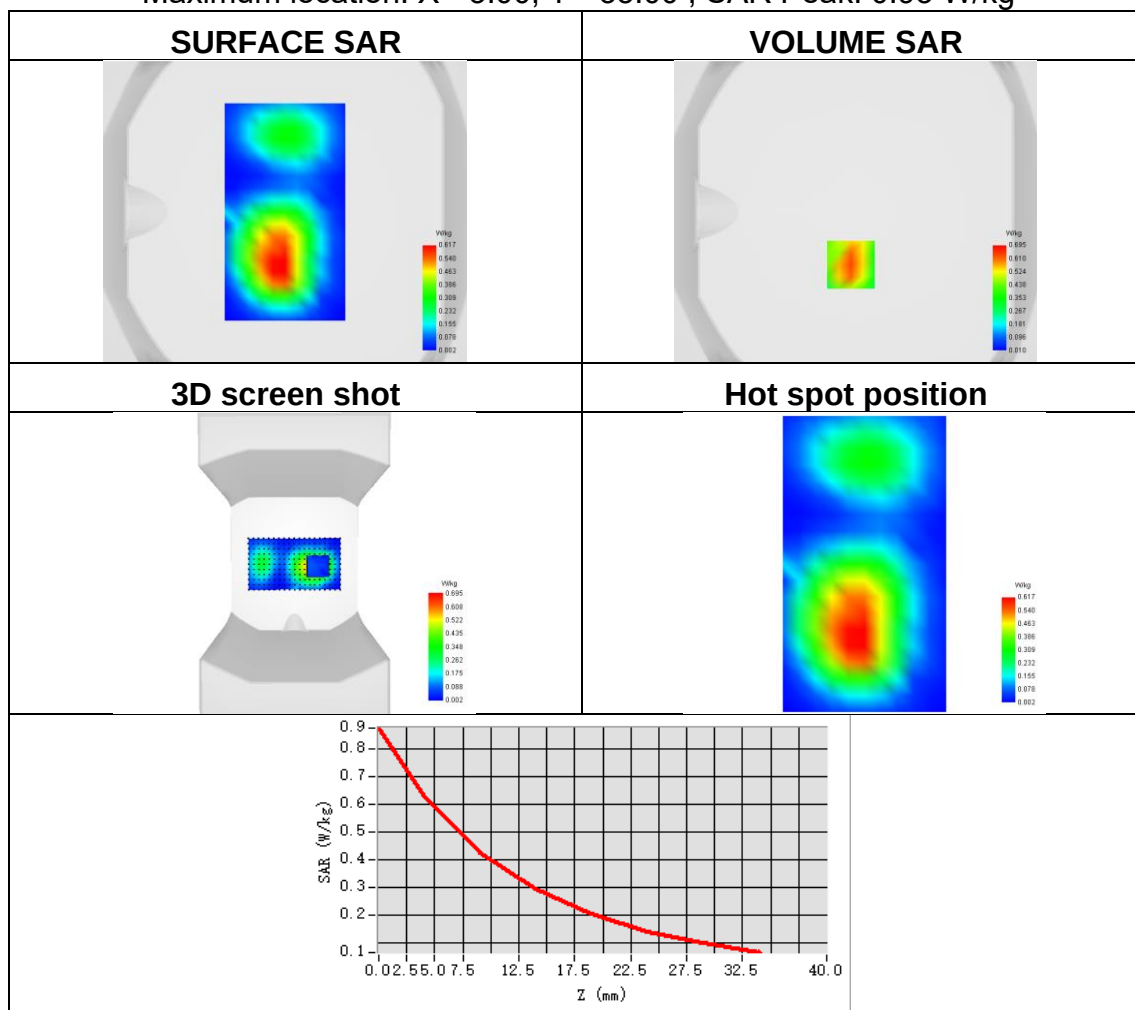




Plot 6:

Test Date	2025-12-21
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	Band 2 (1900)
Signal	WCDMA
Frequency	1852.4
SAR 10g (W/Kg)	0.345
SAR 1g (W/Kg)	0.607
ConvF	1.21
Relative permittivity	40.94
Conductivity (S/m)	1.37

Maximum location: X=-3.00, Y=-35.00 ; SAR Peak: 0.93 W/kg

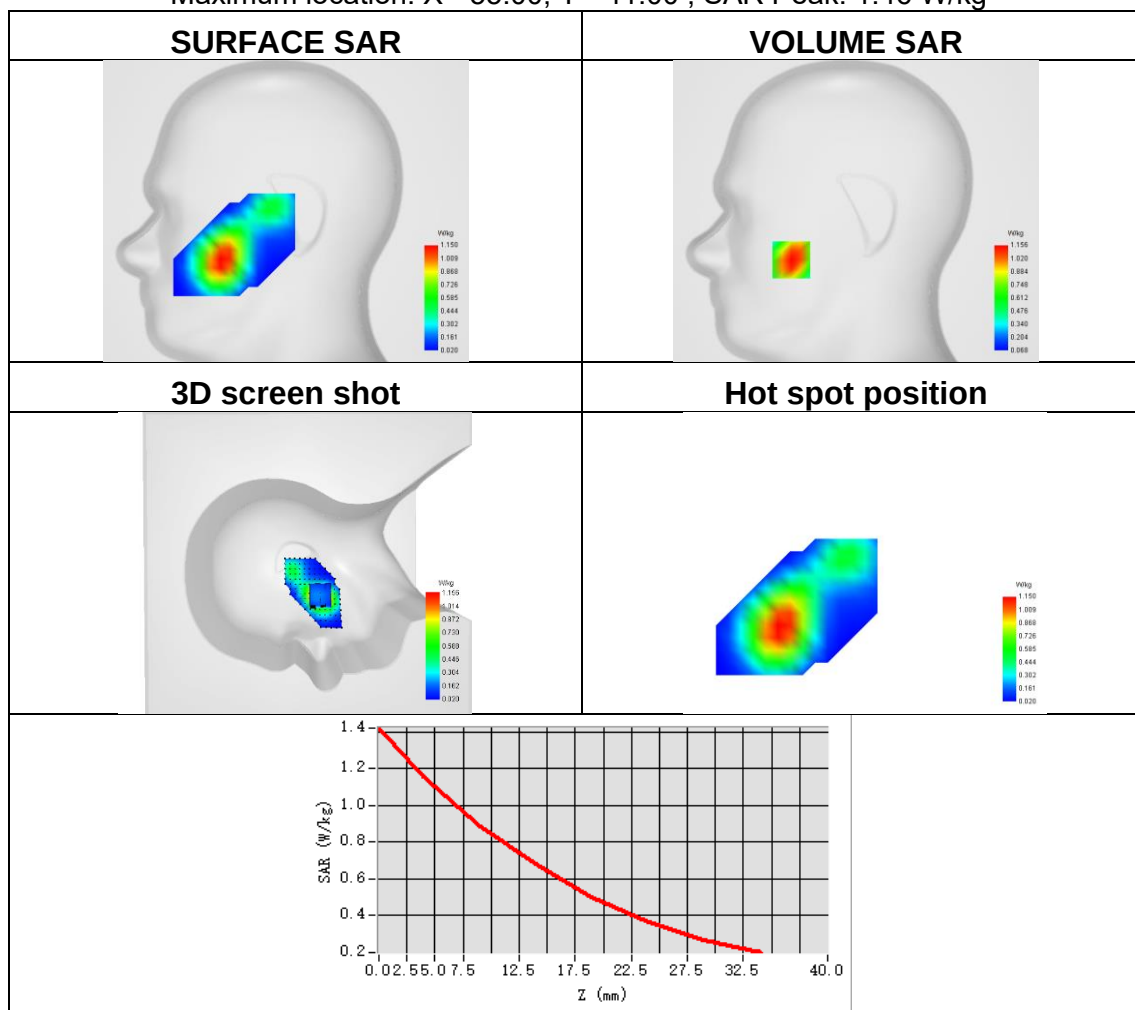




Plot 7:

Test Date	2025-12-23
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	Band 4 (1700)
Signal	WCDMA
Frequency	1712.6
SAR 10g (W/Kg)	0.755
SAR 1g (W/Kg)	1.111
ConvF	1.21
Relative permittivity	40.68
Conductivity (S/m)	1.44

Maximum location: X=-55.00, Y=-41.00 ; SAR Peak: 1.46 W/kg

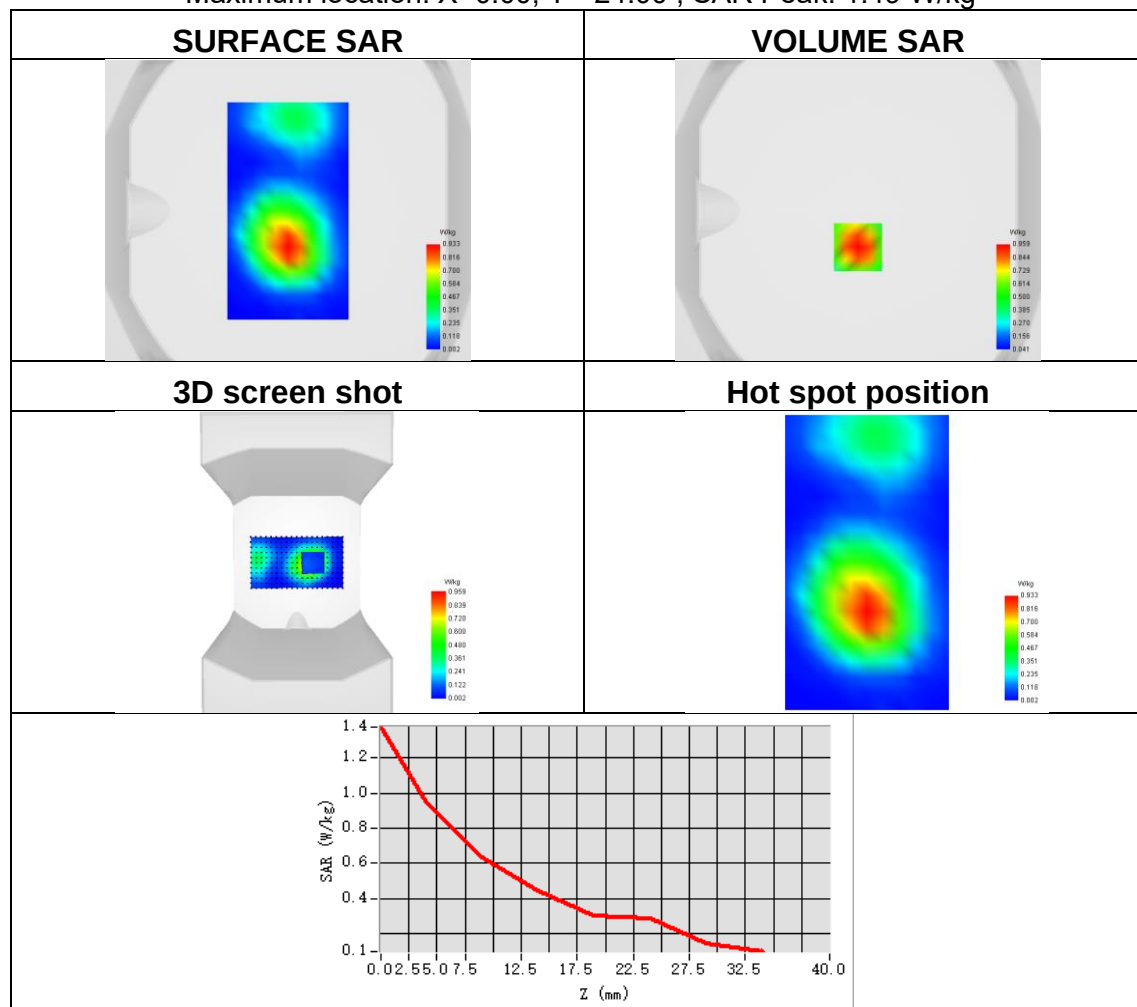




Plot 8:

Test Date	2025-12-23
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	Band 4 (1700)
Signal	WCDMA
Frequency	1712.6
SAR 10g (W/Kg)	0.569
SAR 1g (W/Kg)	0.942
ConvF	1.21
Relative permittivity	40.68
Conductivity (S/m)	1.44

Maximum location: X=0.00, Y=-24.00 ; SAR Peak: 1.49 W/kg

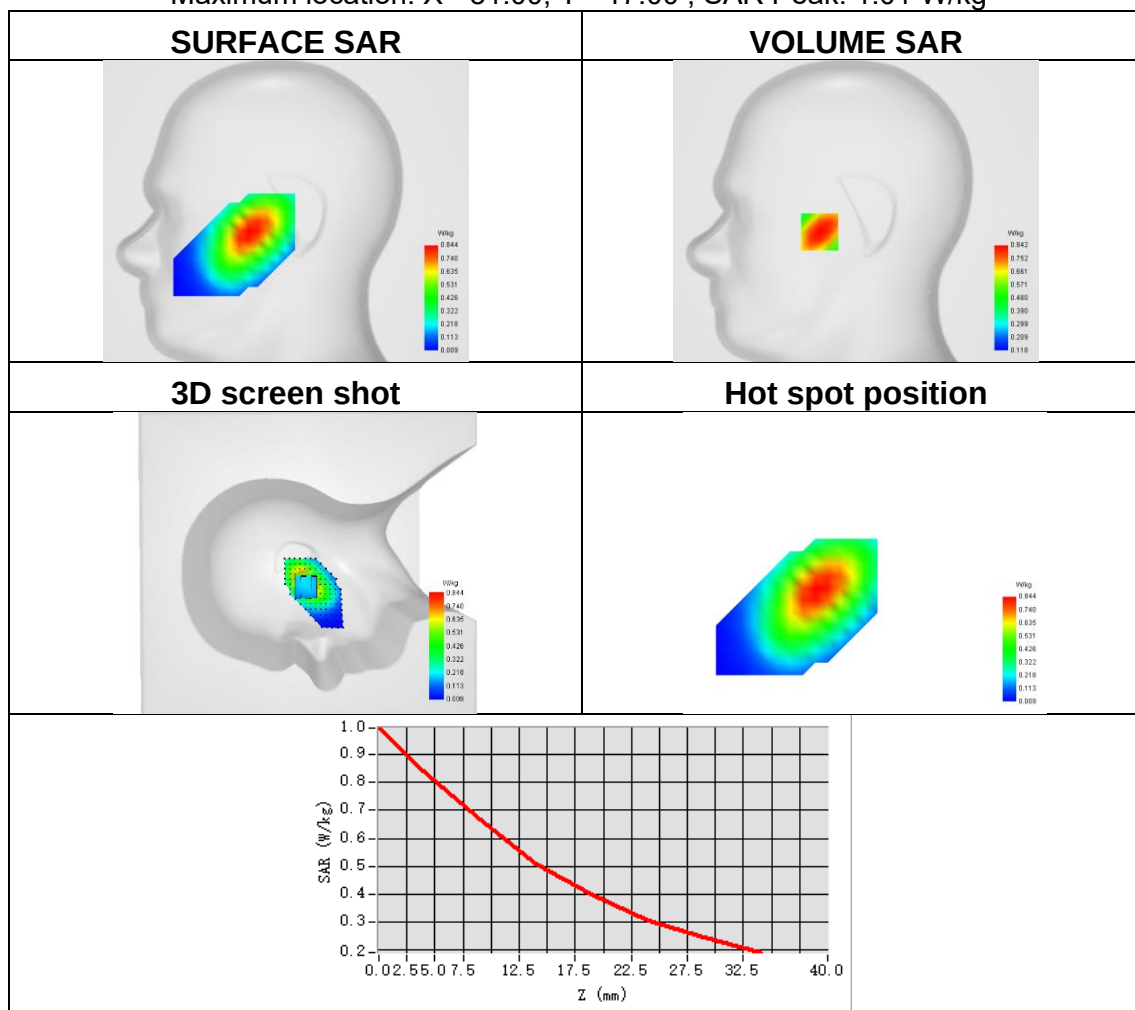




Plot 9:

Test Date	2025-12-12
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	Band 5 (850)
Signal	WCDMA
Frequency	826.4
SAR 10g (W/Kg)	0.590
SAR 1g (W/Kg)	0.805
ConvF	1.02
Relative permittivity	41.89
Conductivity (S/m)	0.89

Maximum location: X=-31.00, Y=-17.00 ; SAR Peak: 1.01 W/kg

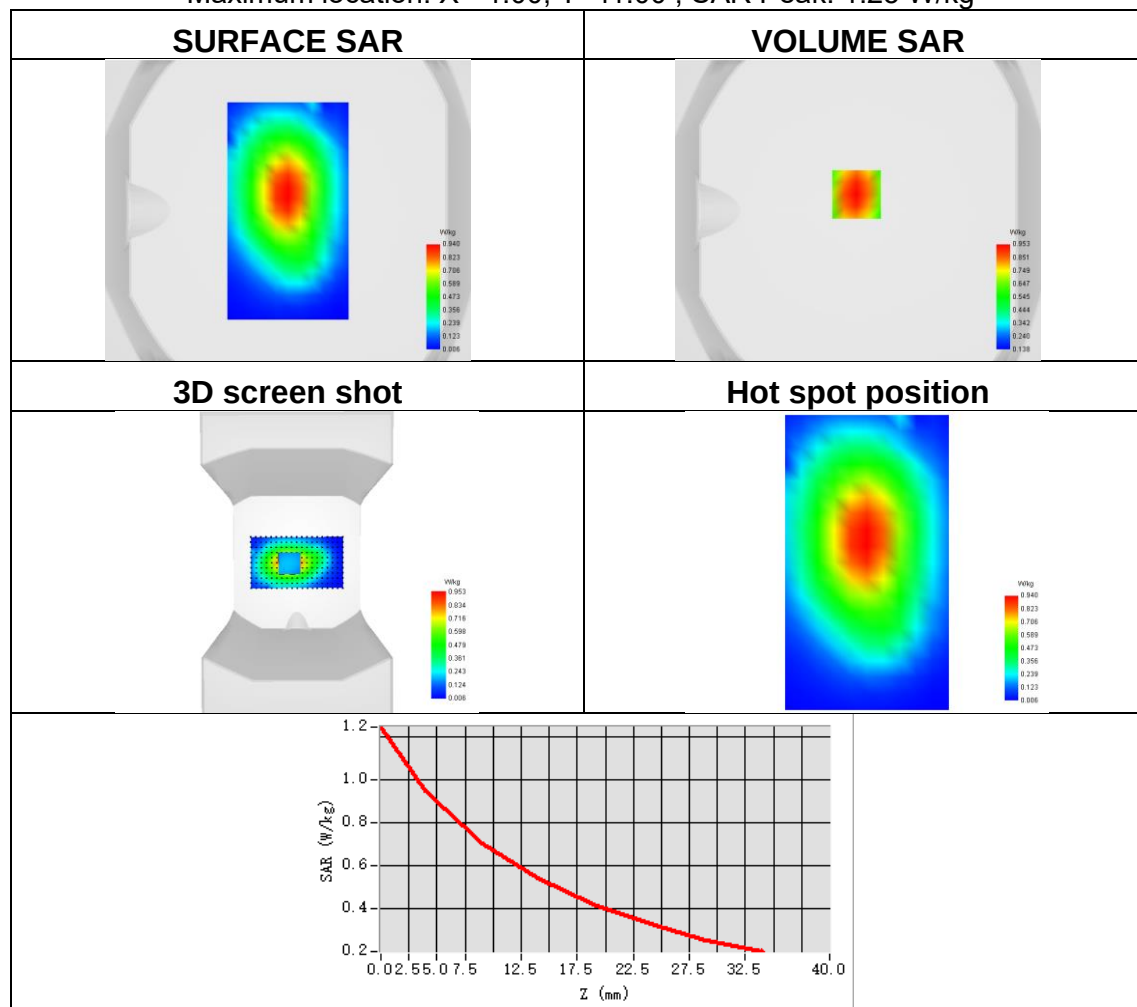




Plot 10:

Test Date	2025-12-12
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	Band 5 (850)
Signal	WCDMA
Frequency	826.4
SAR 10g (W/Kg)	0.648
SAR 1g (W/Kg)	0.921
ConvF	1.02
Relative permittivity	41.89
Conductivity (S/m)	0.89

Maximum location: X=-1.00, Y=11.00 ; SAR Peak: 1.25 W/kg

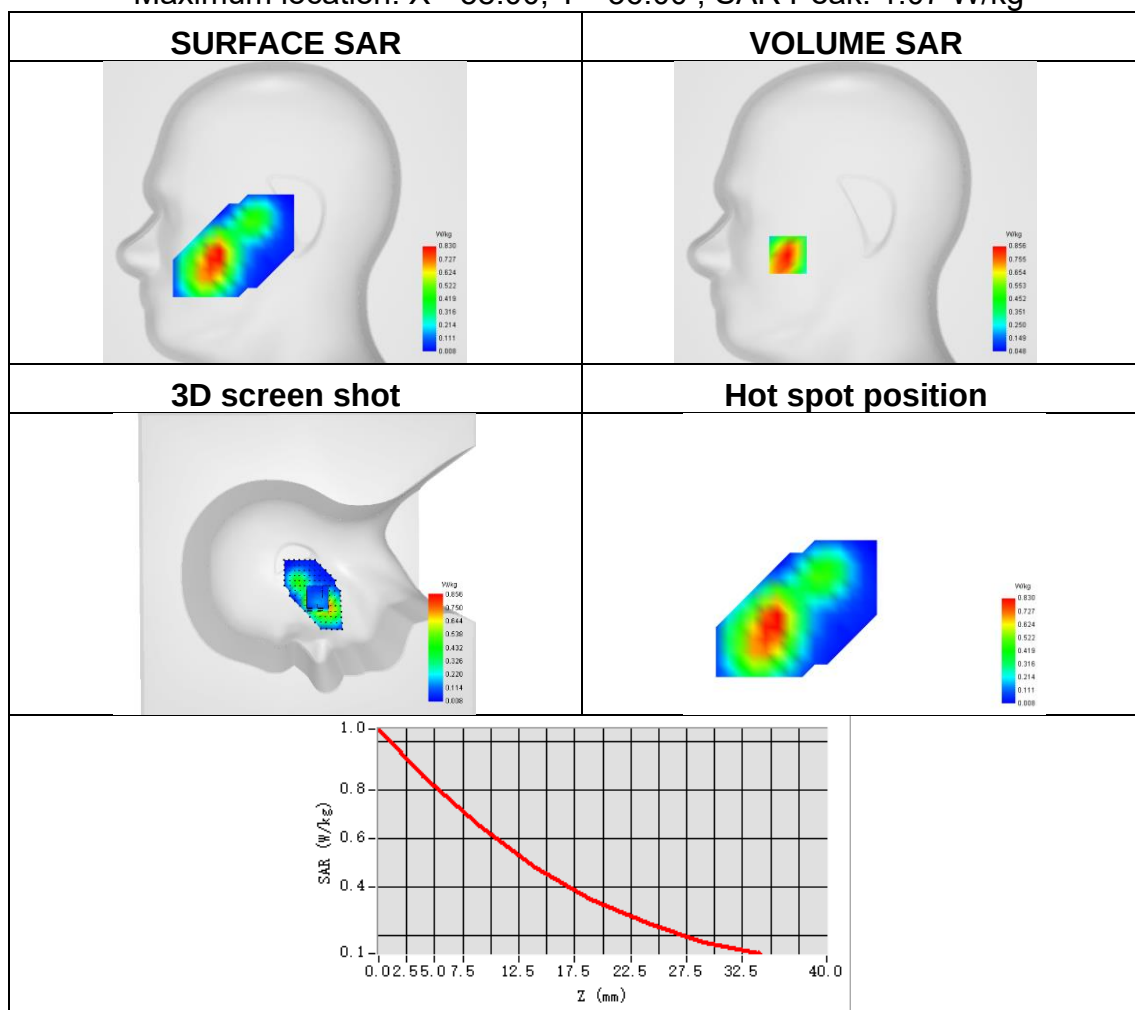




Plot 11:

Test Date	2025-12-11
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	1900
SAR 10g (W/Kg)	0.546
SAR 1g (W/Kg)	0.807
ConvF	1.34
Relative permittivity	40.94
Conductivity (S/m)	1.37

Maximum location: X=-58.00, Y=-36.00 ; SAR Peak: 1.07 W/kg

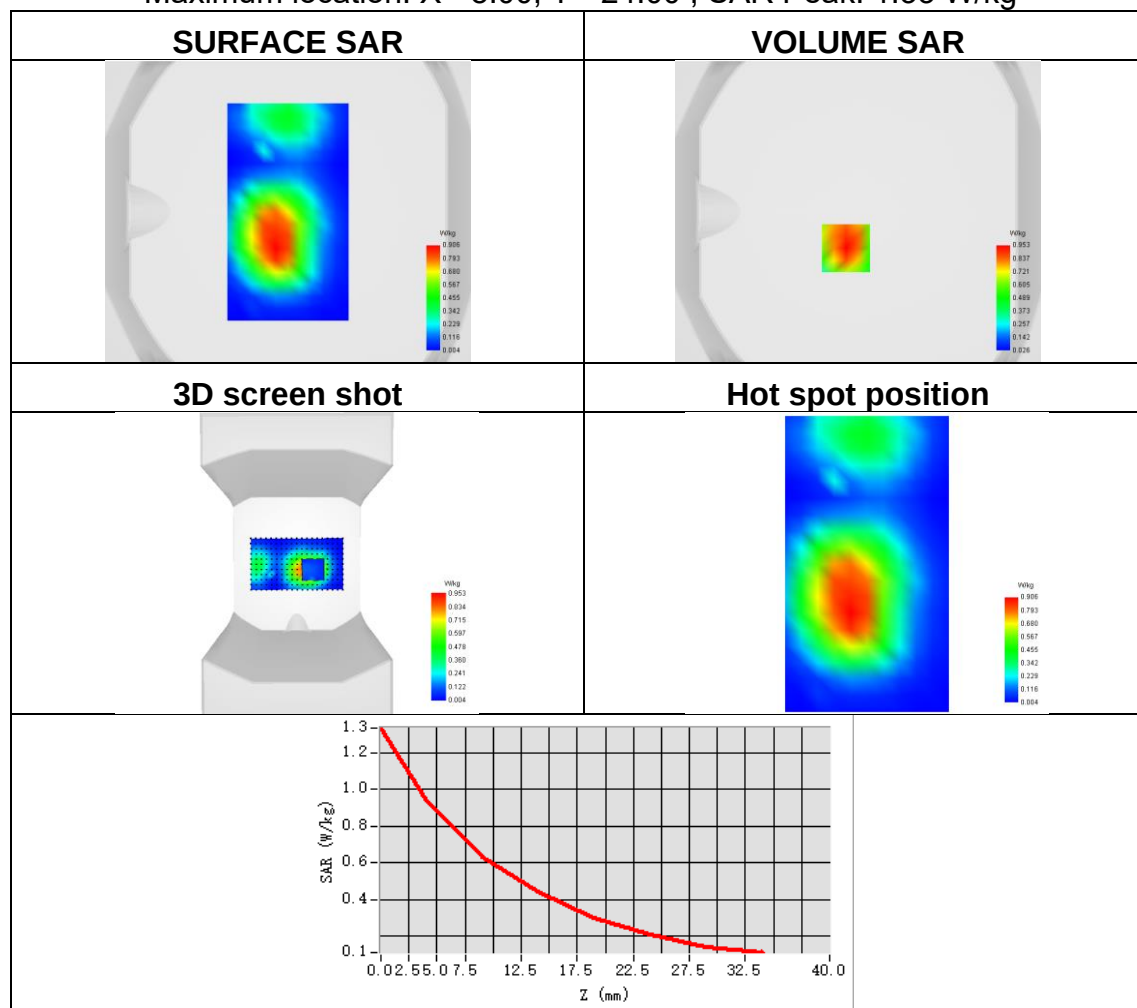




Plot 12:

Test Date	2025-12-11
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	1900
SAR 10g (W/Kg)	0.559
SAR 1g (W/Kg)	0.912
ConvF	1.34
Relative permittivity	40.94
Conductivity (S/m)	1.37

Maximum location: X=-8.00, Y=-24.00 ; SAR Peak: 1.33 W/kg

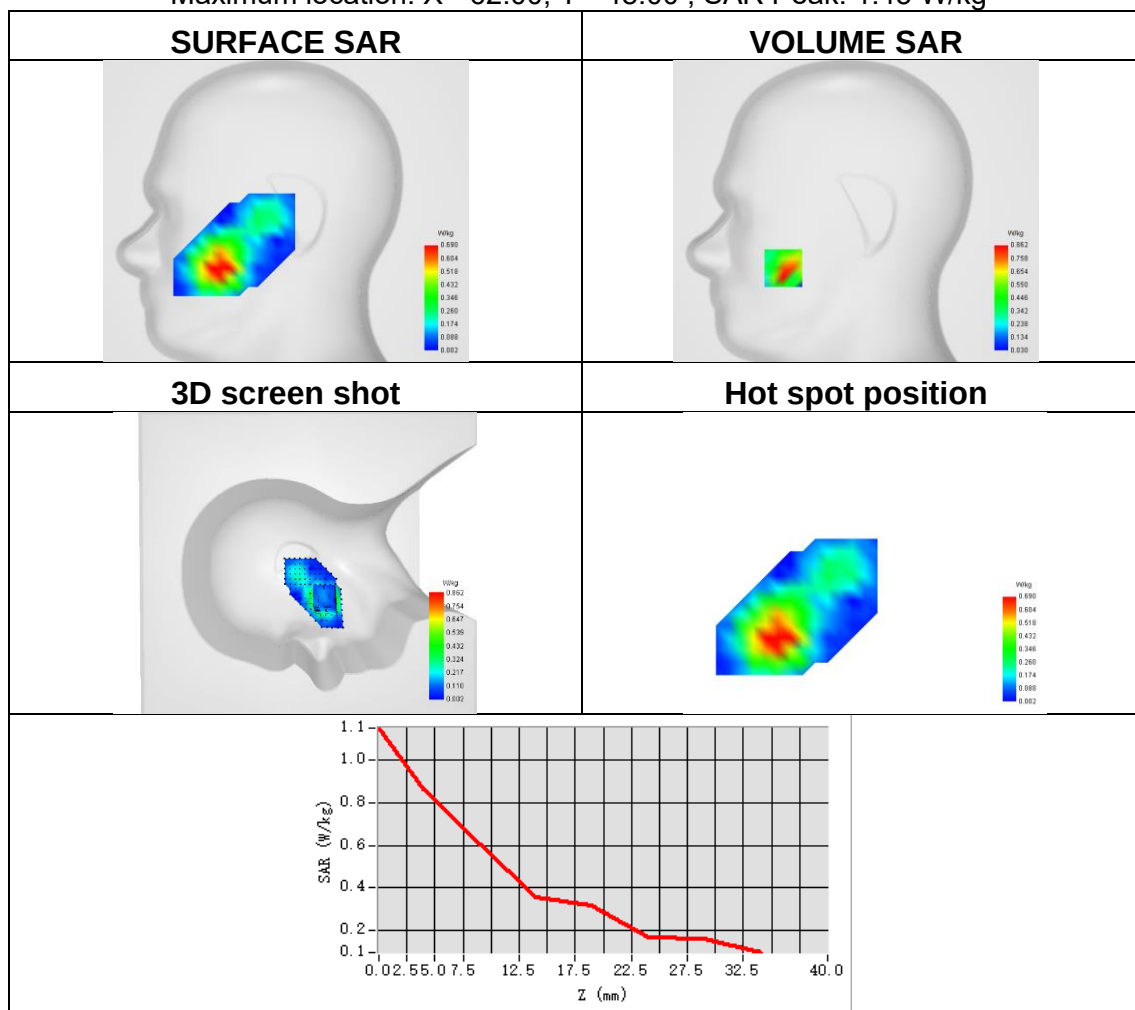




Plot 13:

Test Date	2025-12-23
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	1720
SAR 10g (W/Kg)	0.457
SAR 1g (W/Kg)	0.798
ConvF	1.21
Relative permittivity	40.68
Conductivity (S/m)	1.44

Maximum location: X=-62.00, Y=-48.00 ; SAR Peak: 1.45 W/kg

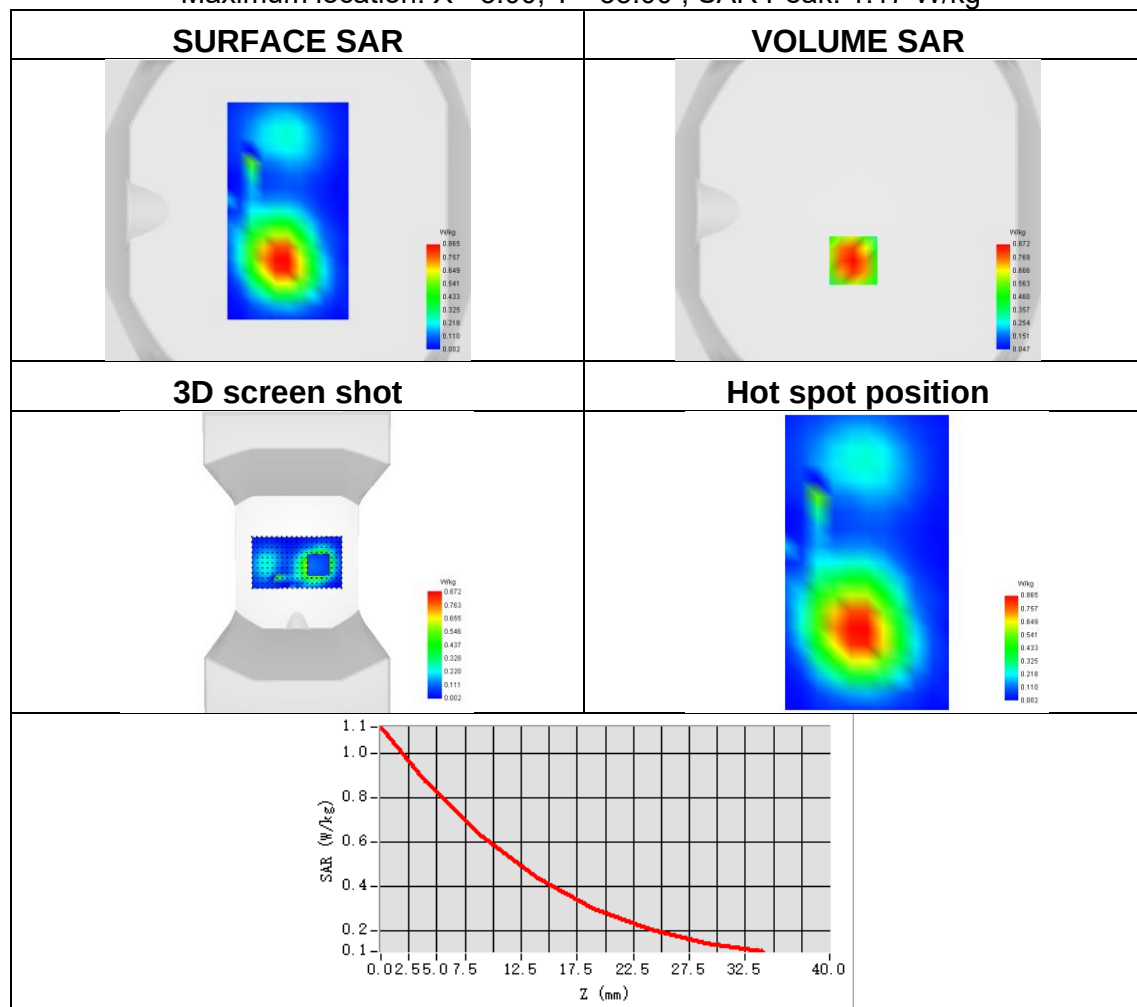




Plot 14:

Test Date	2025-12-23
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	1720
SAR 10g (W/Kg)	0.540
SAR 1g (W/Kg)	0.833
ConvF	1.21
Relative permittivity	40.68
Conductivity (S/m)	1.44

Maximum location: X=-3.00, Y=-33.00 ; SAR Peak: 1.17 W/kg

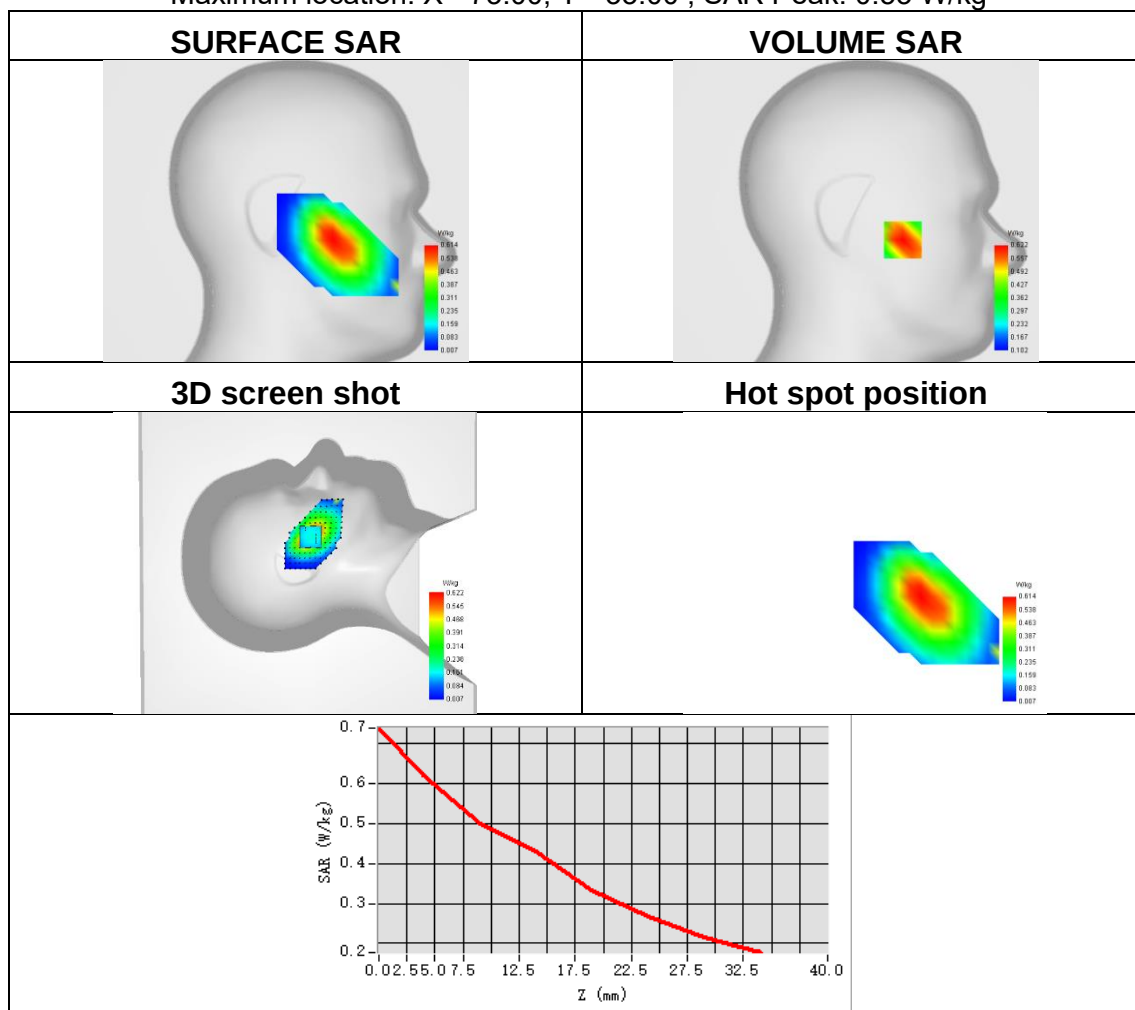




Plot 15:

Test Date	2025-12-21
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 5
Signal	LTE FDD
Frequency	844
SAR 10g (W/Kg)	0.439
SAR 1g (W/Kg)	0.597
ConvF	1.02
Relative permittivity	40.45
Conductivity (S/m)	1.41

Maximum location: X=-73.00, Y=-33.00 ; SAR Peak: 0.53 W/kg

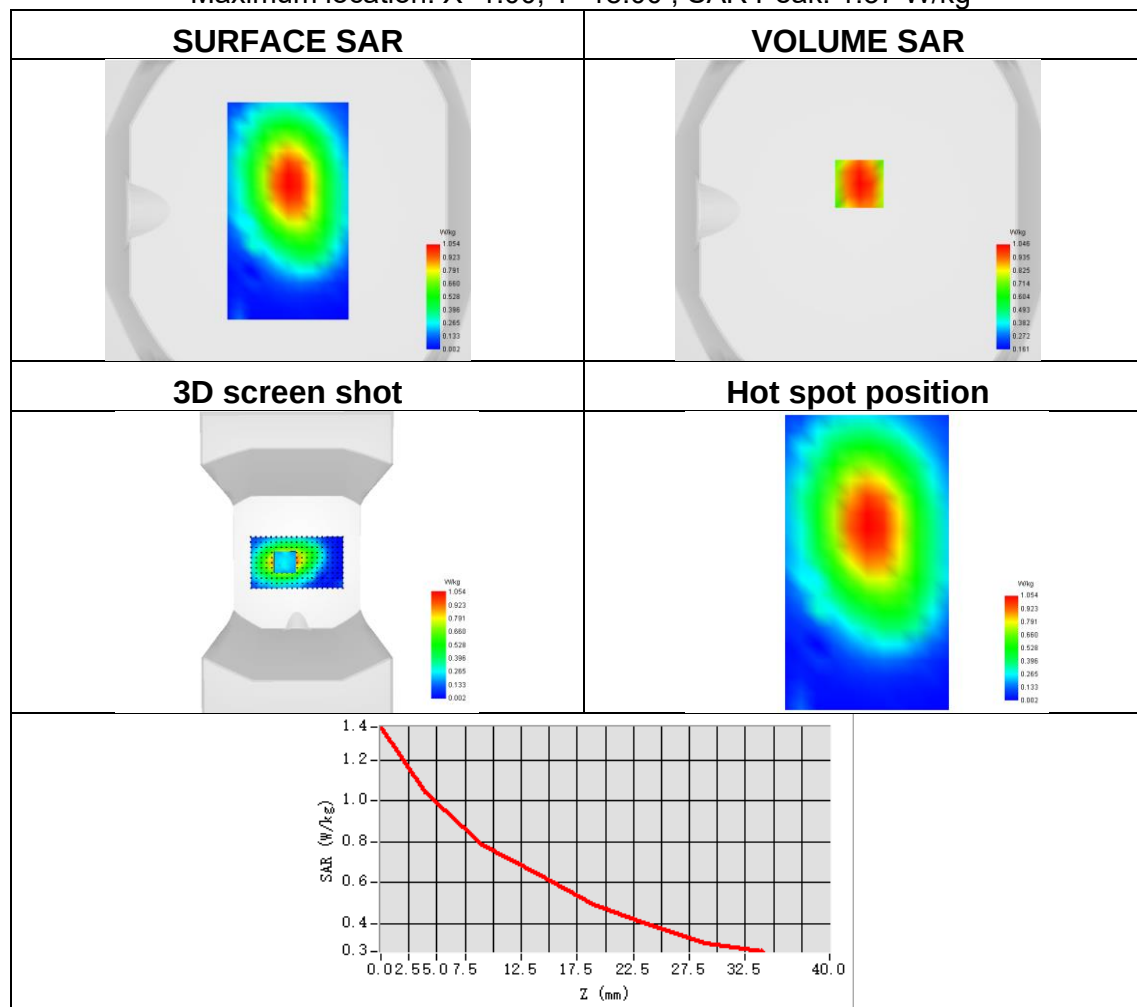




Plot 16:

Test Date	2025-12-21
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 5
Signal	LTE FDD
Frequency	844
SAR 10g (W/Kg)	0.733
SAR 1g (W/Kg)	1.021
ConvF	1.02
Relative permittivity	40.45
Conductivity (S/m)	1.41

Maximum location: X=1.00, Y=18.00 ; SAR Peak: 1.37 W/kg

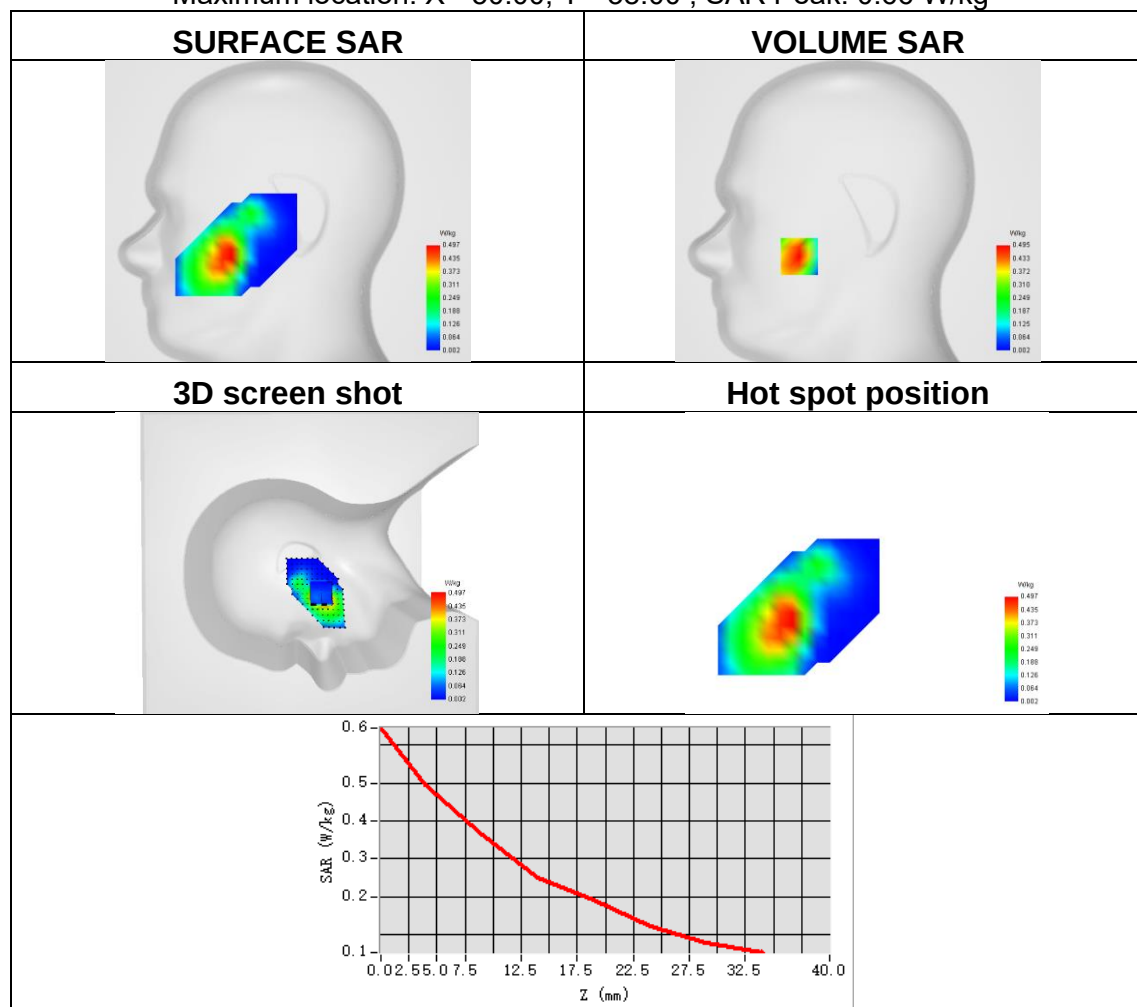




Plot 17:

Test Date	2025-12-23
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	2535
SAR 10g (W/Kg)	0.295
SAR 1g (W/Kg)	0.467
ConvF	1.44
Relative permittivity	39.75
Conductivity (S/m)	1.98

Maximum location: X=-50.00, Y=-38.00 ; SAR Peak: 0.66 W/kg

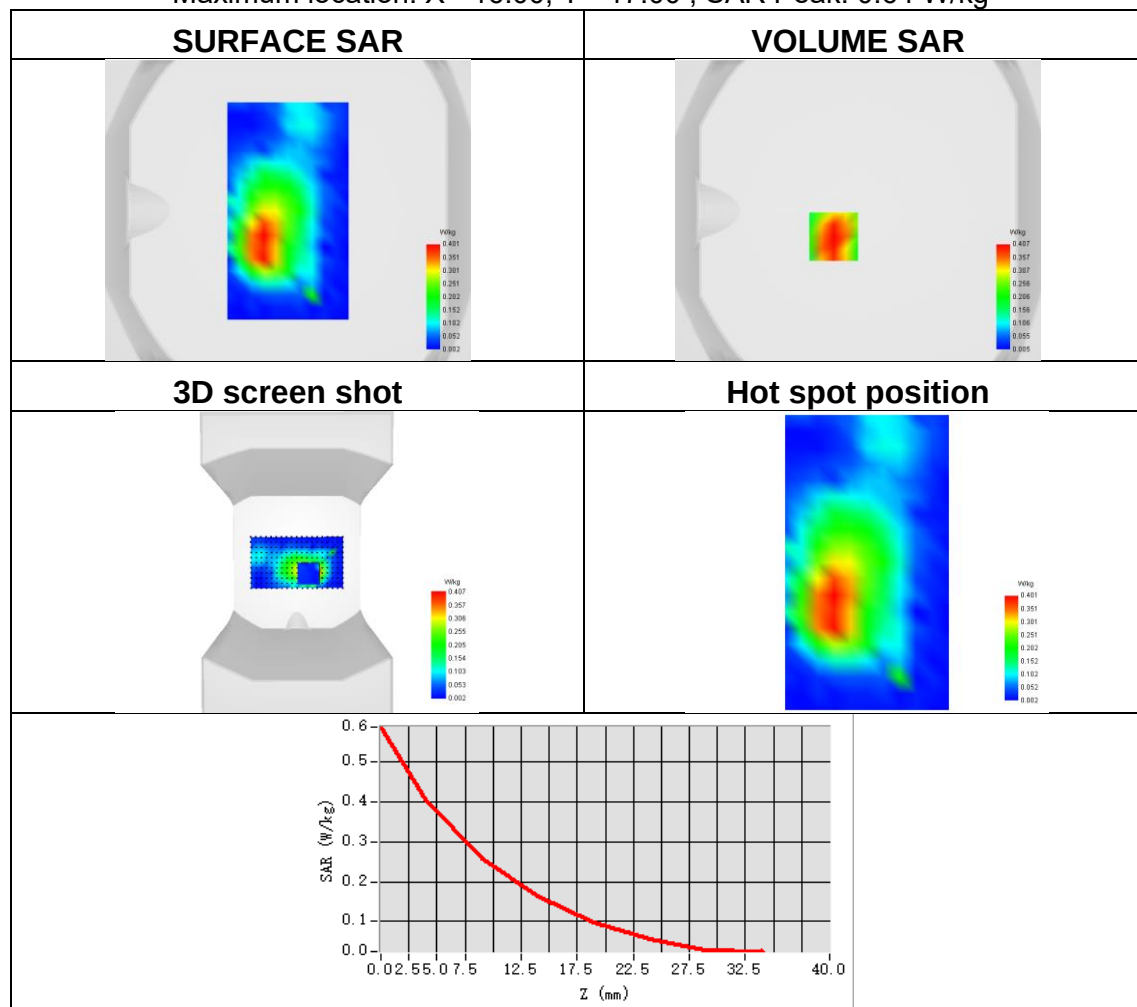




Plot 18:

Test Date	2025-12-23
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	2535
SAR 10g (W/Kg)	0.221
SAR 1g (W/Kg)	0.395
ConvF	1.44
Relative permittivity	39.75
Conductivity (S/m)	1.98

Maximum location: X=-16.00, Y=-17.00 ; SAR Peak: 0.64 W/kg

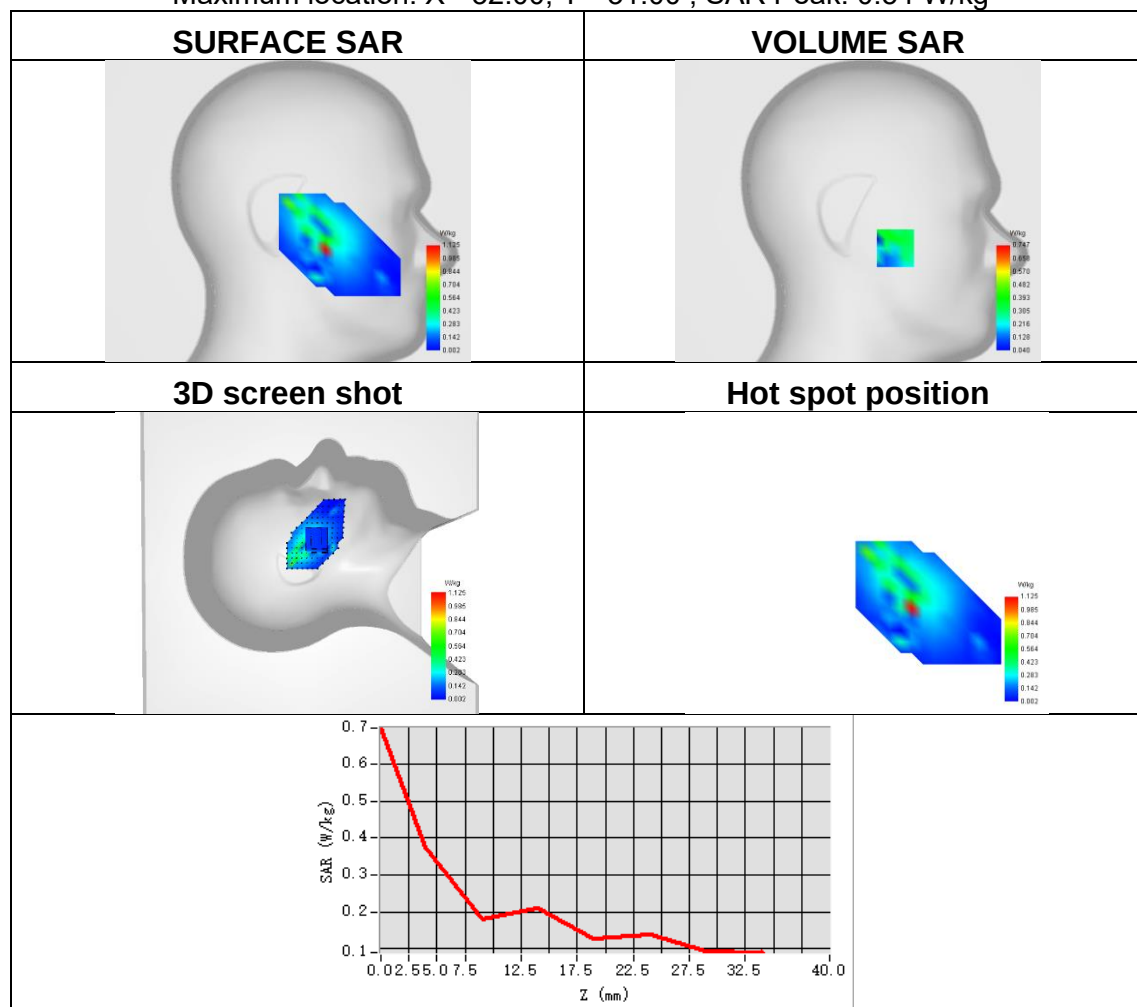




Plot 19:

Test Date	2025-12-22
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 12
Signal	LTE FDD
Frequency	704
SAR 10g (W/Kg)	0.219
SAR 1g (W/Kg)	0.349
ConvF	1.08
Relative permittivity	42.76
Conductivity (S/m)	0.91

Maximum location: X=-32.00, Y=-31.00 ; SAR Peak: 0.54 W/kg

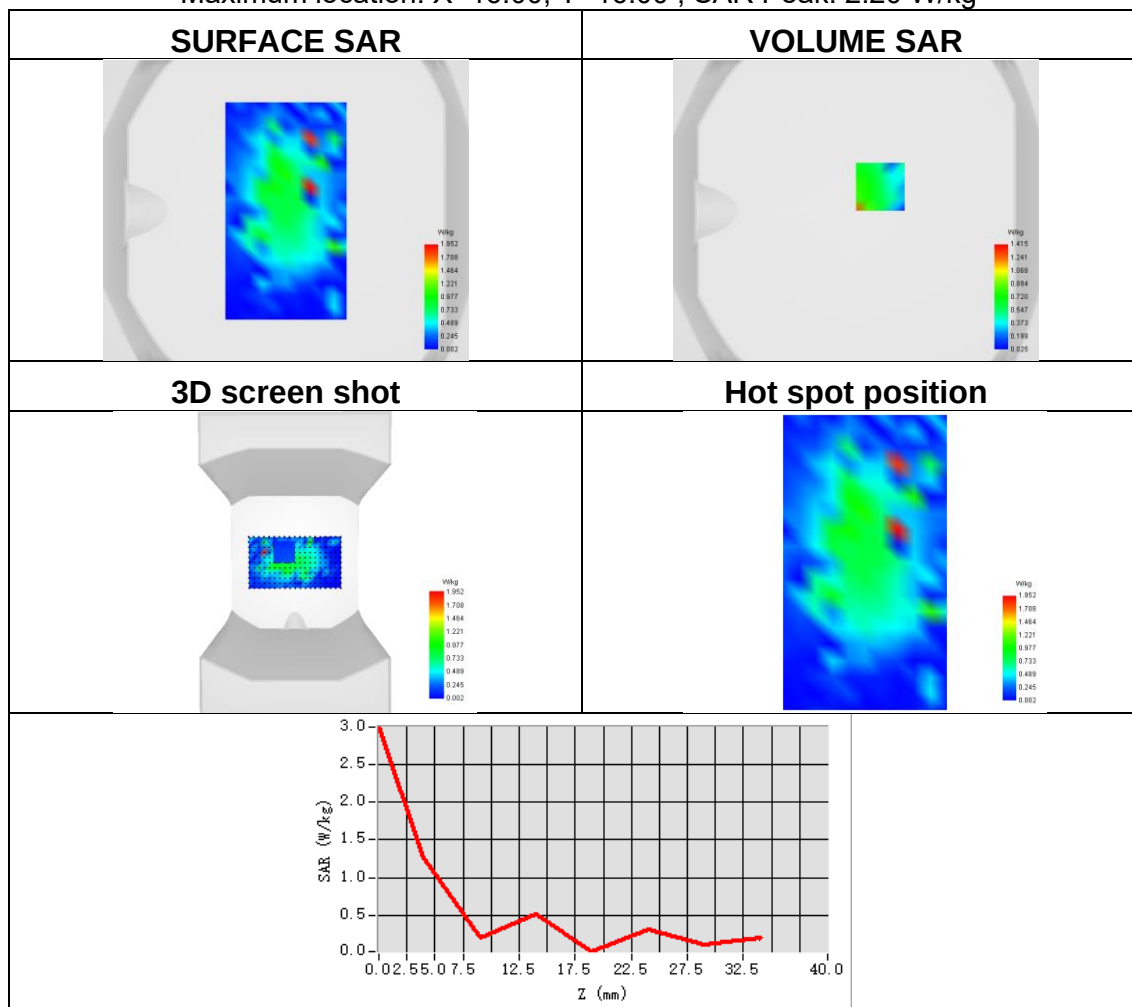




Plot 20:

Test Date	2025-12-22
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	704
SAR 10g (W/Kg)	0.413
SAR 1g (W/Kg)	0.877
ConvF	1.08
Relative permittivity	42.76
Conductivity (S/m)	0.91

Maximum location: X=16.00, Y=16.00 ; SAR Peak: 2.20 W/kg

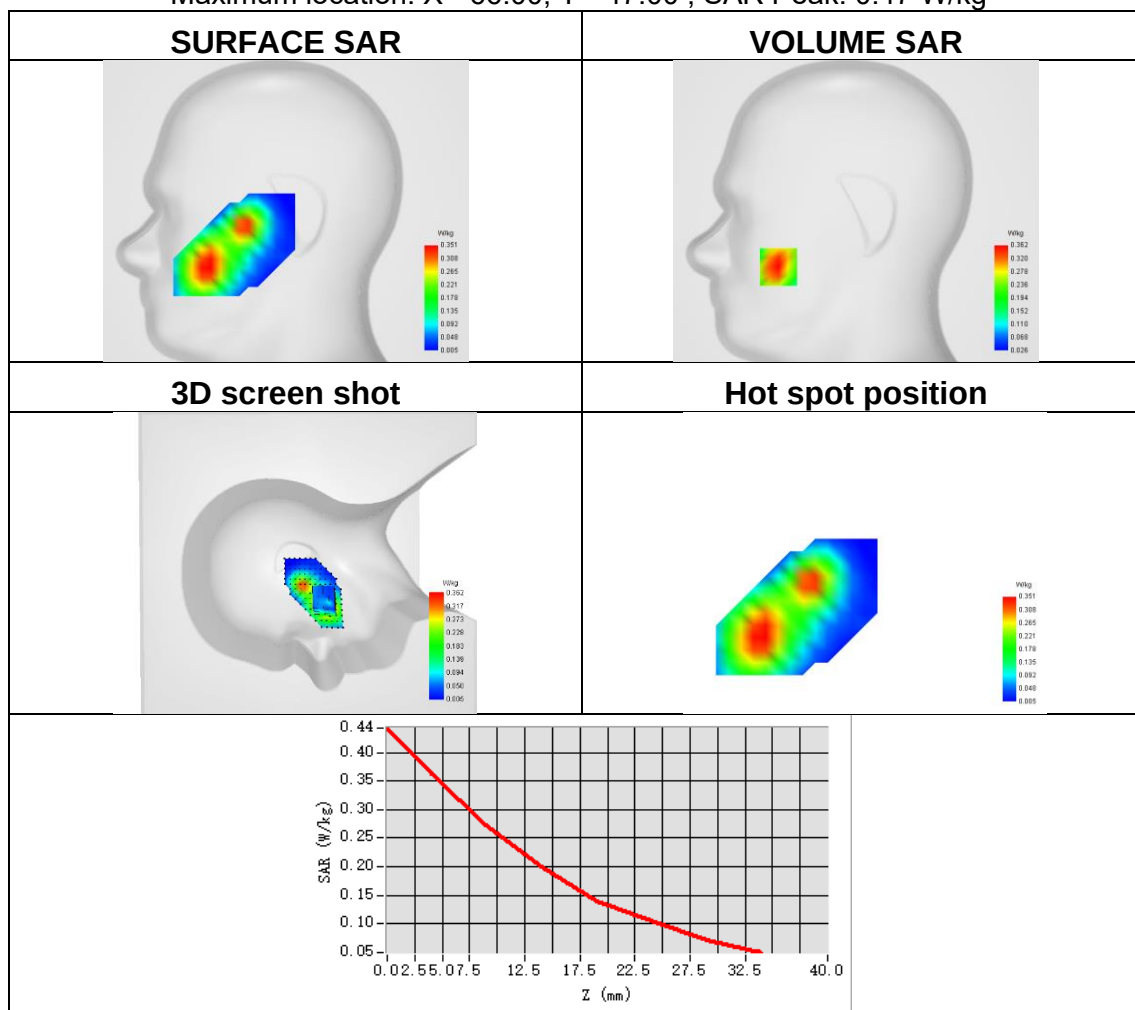




Plot 21:

Test Date	2025-12-23
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	1720
SAR 10g (W/Kg)	0.237
SAR 1g (W/Kg)	0.347
ConvF	1.21
Relative permittivity	40.68
Conductivity (S/m)	1.44

Maximum location: X=-66.00, Y=-47.00 ; SAR Peak: 0.47 W/kg

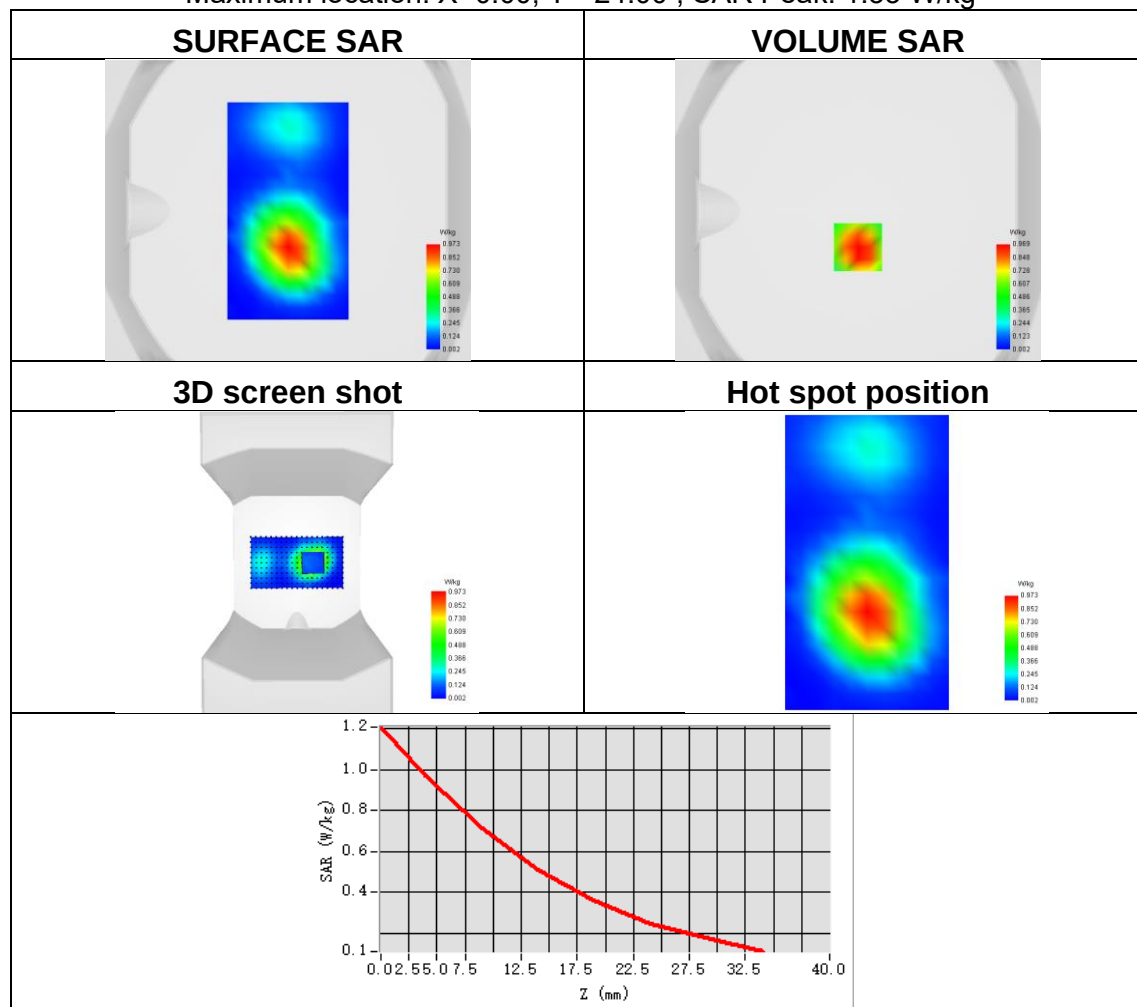




Plot 22:

Test Date	2025-12-23
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	1720
SAR 10g (W/Kg)	0.578
SAR 1g (W/Kg)	0.933
ConvF	1.21
Relative permittivity	40.68
Conductivity (S/m)	1.44

Maximum location: X=0.00, Y=-24.00 ; SAR Peak: 1.33 W/kg

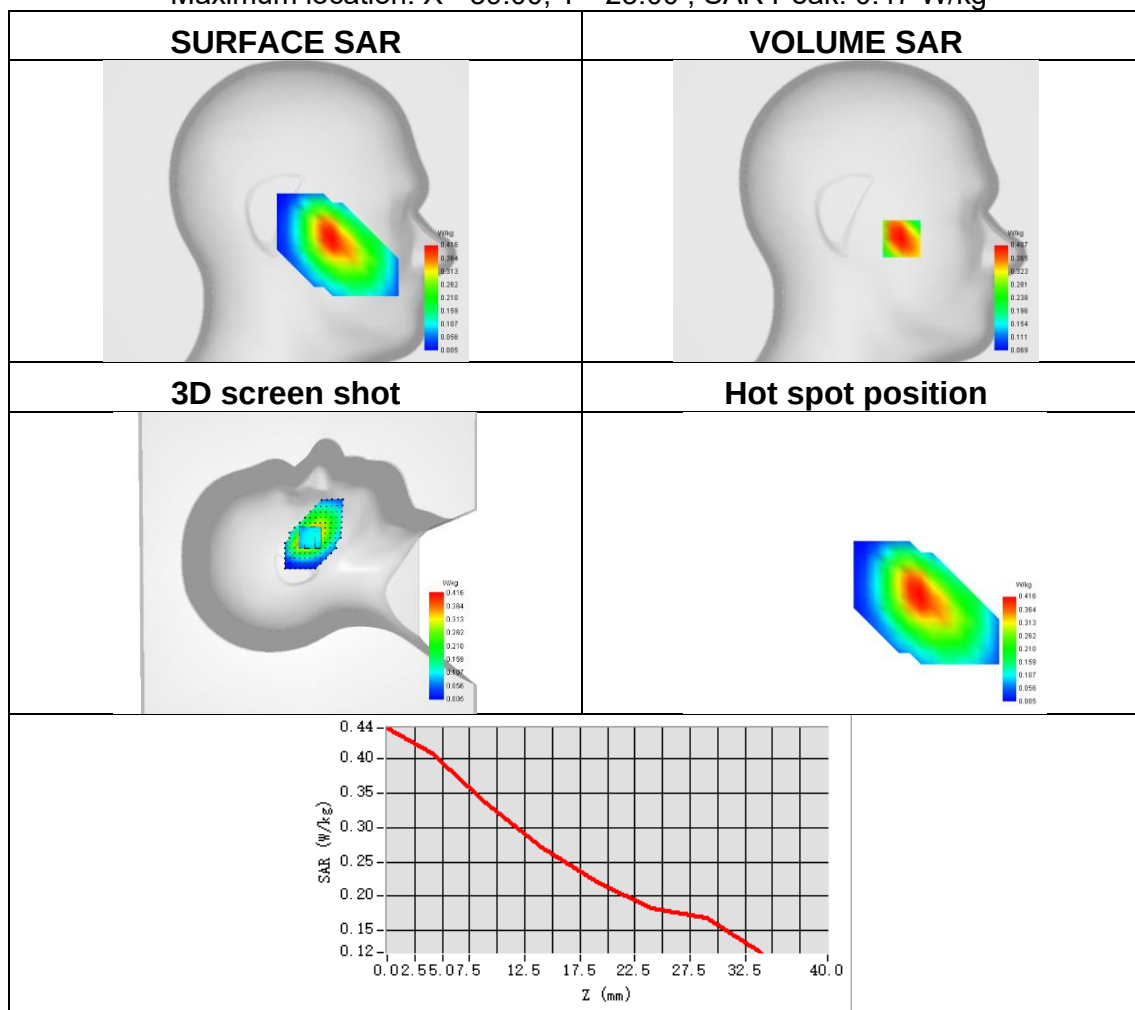




Plot 23:

Test Date	2025-12-22
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 71
Signal	LTE FDD
Frequency	683
SAR 10g (W/Kg)	0.301
SAR 1g (W/Kg)	0.399
ConvF	1.08
Relative permittivity	42.76
Conductivity (S/m)	0.91

Maximum location: X=-39.00, Y=-23.00 ; SAR Peak: 0.47 W/kg

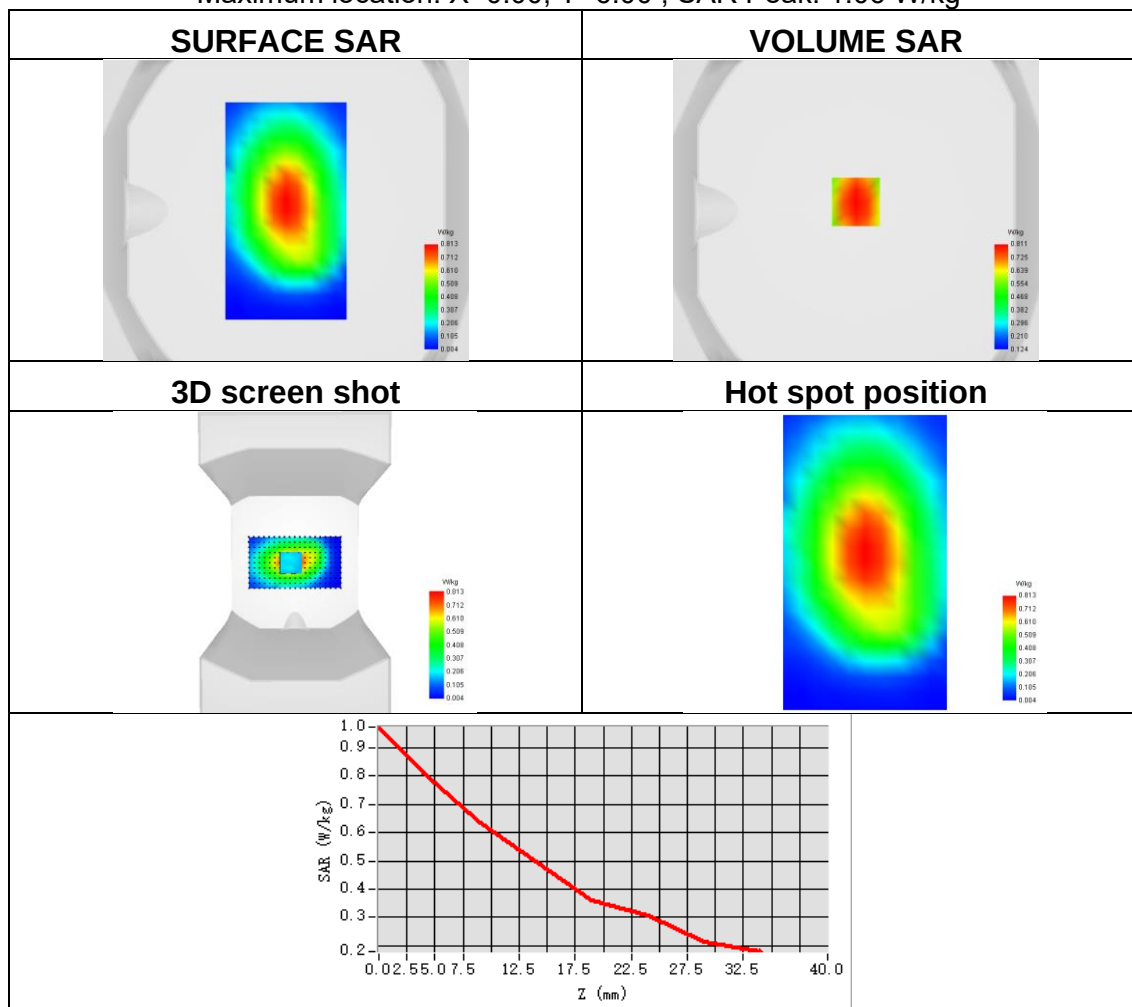




Plot 24:

Test Date	2025-12-22
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)	0.593
SAR 1g (W/Kg)	0.836
ConvF	1.08
Relative permittivity	42.76
Conductivity (S/m)	0.91

Maximum location: X=0.00, Y=6.00 ; SAR Peak: 1.06 W/kg





Appendix C. Probe Calibration and Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※※END OF THE REPORT※※※※※