SAR TEST REPORT

Product Name: Tablet

Model Name: PAD PRO, S85B5

FCC ID: 2BO97PADPRO

Issued For : NOVISOLUTIONS CIA LTDA

Ponceano N73 y Mariano Paredes QUITO ECUADOR

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

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

Report Number:	LGT25J147HA01
Sample Received Date:	Oct.24, 2025
Date of Test	Oct.27, 2025 ~ Oct.31, 2025
Date of Issue	Oct.31, 2025
Max. SAR (1g)	Body:0.714 W/kg

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Revision History

Rev.	Issue Date	Contents
00	Oct. 31, 2025	Initial Issue

TEST REPORT CERTIFICATION

Applicant	NOVISOLUTIONS CIA LTDA
Address	Ponceano N73 y Mariano Paredes QUITO ECUADOR
Manufacture	NOVISOLUTIONS CIA LTDA
Address	170303 MARIANO PAREDES Y N73,QUITO,ECUADOR
Product Name	Tablet
Trademark	ENV
Model Name	PAD PRO, S85B5
Sample number	LGT2510186-3

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

Prepared by:

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Approved by:

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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	Tablet	
Trademark	ENV	
Test Model Name	PAD PRO	
Series Model	S85B5	
Model Difference	Only difference in model name	
Device Category	Portable	
Product stage	Production unit	
RF Exposure Environment	General Population / Uncontrolled	
Hardware Version	WT_G31_Y_6789_BED_UFS_MB_V1.2_20250612	
Software Version	N/A	
Frequency Range	GSM 850: 824 ~ 849 MHz PCS 1900: 1850 ~ 1910 MHz WCDMA Band II: 1850 ~ 1910 MHz WCDMA Band V: 824 ~ 849 MHz LTE Band 2:1850 ~1910MHz LTE Band 4:1710 ~1755MHz WLAN 802.11b/g/n20: 2412 MHz ~ 2462 MHz WLAN 802.11n40: 2422 MHz ~ 2452 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5150 ~ 5250 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5250 ~ 5350 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5725 ~ 5850 MHz Bluetooth: 2402 ~ 2480 MHz	
Max. Reported SAR(1g): (Limit:1.6W/kg) Test distance: Body:0mm	Mode	Body Worn and Hotspot (W/ kg)
	GSM 850	0.256
	PCS 1900	0.585
	WCDMA Band II	0.528
	WCDMA Band V	0.714
	LTE Band 2	0.555
	LTE Band 4	0.252
	2.4G WLAN	0.501
	5.2G WLAN	0.599
	5.3G WLAN	0.553
	5.8G WLAN	0.289
	Bluetooth[Note]	0.090
1-g Sum SAR		1.313
Battery	Rated Voltage:3.8V Capacity: 8000mAh	
Description test modes	SIM 1 and SIM 2 is a chipset unit and tested as single chipset, SIM 1 is used to tested / Only support single SIM Card. Support dual-SIM, dual standby, the multiple SIM card with two lines cannot trans mitting at the same time	

Operating Mode:	GSM: GSM Voice; GPRS/EGPRS Class 12 WCDMA: RMC, HSDPA, HSUPA Release 6 LTE: QPSK, 16QAM 2.4G WLAN: 802.11b(DSSS): CCK, DQPSK, DBPSK 802.11g(OFDM): BPSK, QPSK,16-QAM,64-QAM 802.11n(OFDM): BPSK, QPSK,16-QAM,64-QAM 5G WLAN: 802.11a(OFDM): BPSK, QPSK,16-QAM,64-QAM 802.11n(OFDM): BPSK, QPSK,16-QAM,64-QAM 802.11ac (OFDM): BPSK, QPSK,16-QAM,64-QAM,256-QAM Bluetooth: GFSK +π/4DQPSK+8DPSK BLE: GFSK GPS: BPSK FM: FM BDS: QPSK GLONASS: FDMA GALILEO: CBOC
Antenna Specification	GSM/WCDMA/LTE: PIFA Antenna Bluetooth: PIFA Antenna WLAN: PIFA Antenna
Operating Mode	Maximum continuous output
Hotspot Mode	Support
DTM Mode	Not Support
Note 1: The BT value was Estimated.	

1.2 Test Environment

Ambient conditions in the SAR laboratory:

Items	Required
Temperature (℃)	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
	A2LA Certificate No.: 6727.01
	IC Registration No.: 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 941225 D06 v02r01	Hotspot Mode SAR
10	FCC KDB 648474 D04 v01r03	SAR Evaluation Considerations for Wireless Handsets
11	FCC KDB 248227 D01 Wi-Fi SAR v02r02	SAR Considerations for 802.11 Devices

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

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

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

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

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

Population/Uncontrolled Environments:
Are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

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

NOTE GENERAL POPULATION/UNCONTROLLED EXPOSURE PARTIAL BODY LIMIT 1.6 W/kg

3. SAR Measurement System

3.1 Definition of Specific Absorption Rate (SAR)

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

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

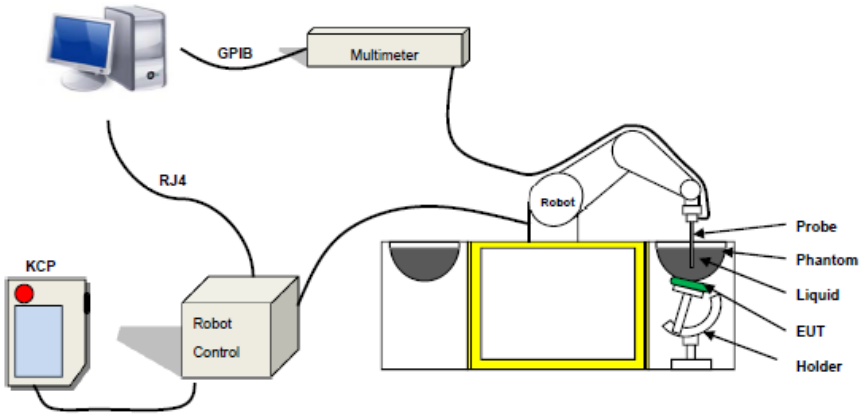
SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be related to the electrical field in the tissue by

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

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

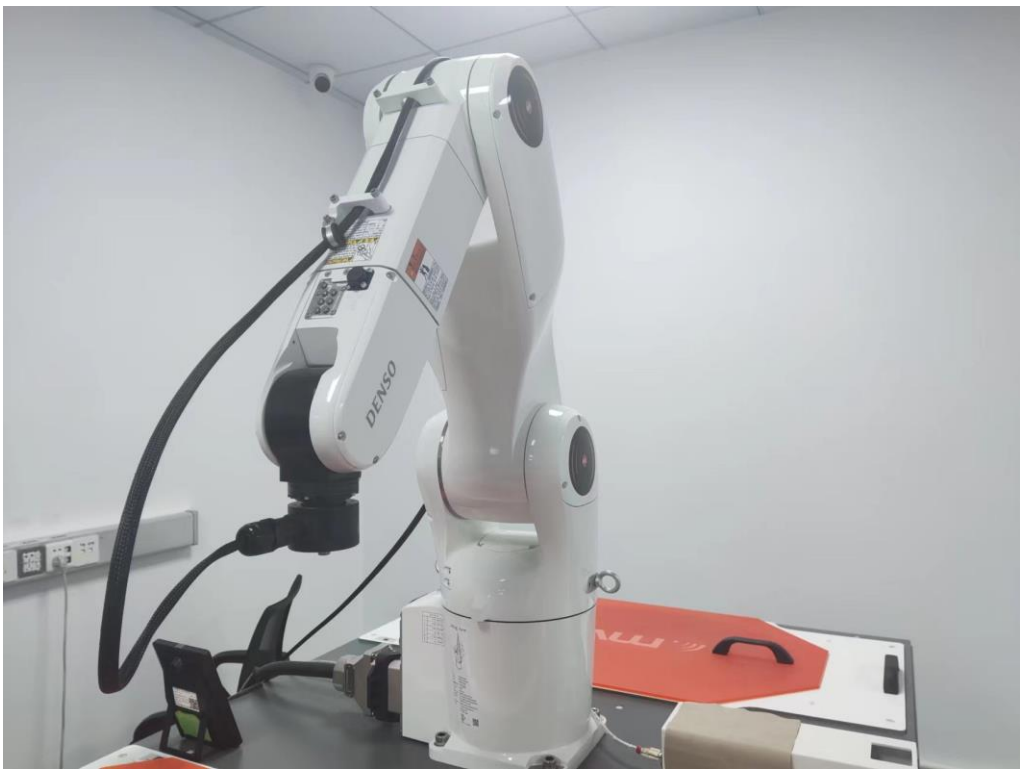
3.2 SAR System

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

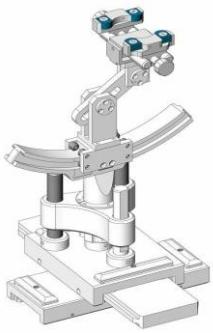
3.2.2 Phantom

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 of the dielectric parameters are within the tolerances of the specified target values

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

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

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

LIQUID MEASUREMENT RESULTS

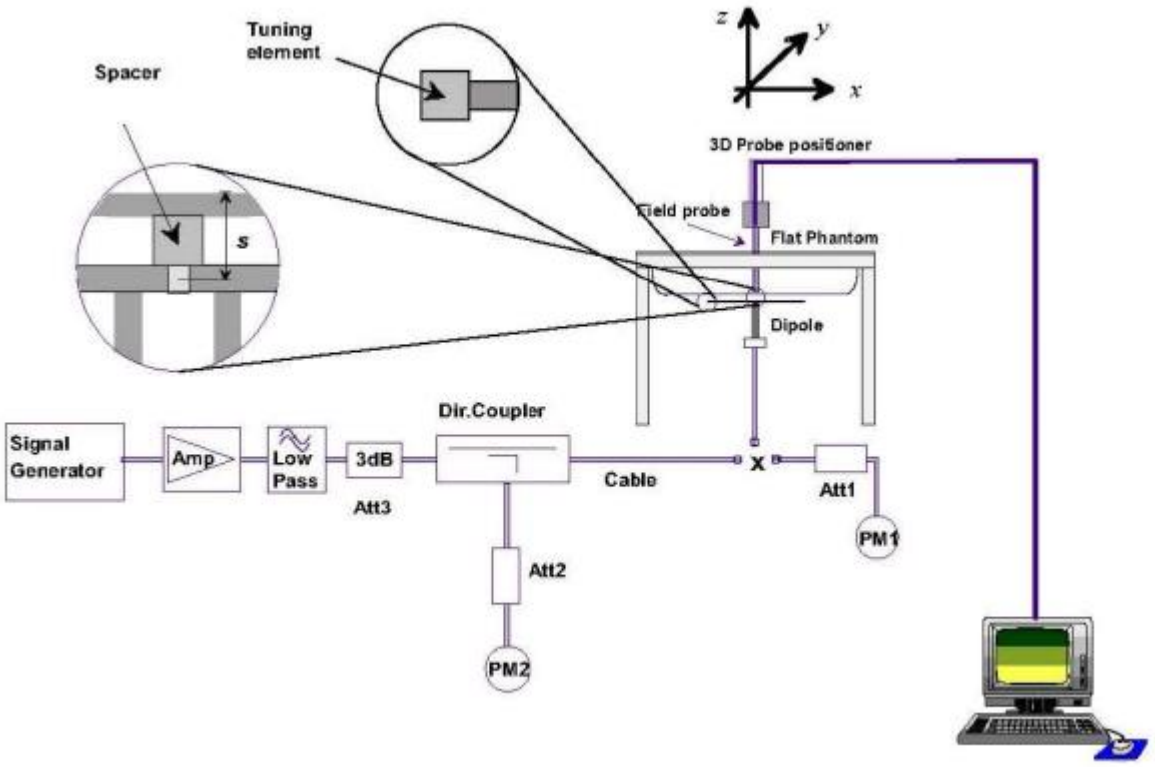
Date	Ambient		Simulating Liquid		Parameters	Target	Measured	Deviation %	Limited %
	Temp. [°C]	Humidity %	Frequency (MHz)	Temp. [°C]					
2025-10-28	23.3	48	835	23	Permittivity	41.50	42.09	1.42	±5
					Conductivity	0.90	0.88	-2.22	±5
2025-10-30	21.3	41	1800	21	Permittivity	40.00	40.31	0.78	±5
					Conductivity	1.40	1.41	0.71	±5
2025-10-31	20.6	56	1900	20.3	Permittivity	40.00	40.52	1.30	±5
					Conductivity	1.40	1.42	1.43	±5
2025-10-28	20.7	47	2450	20.4	Permittivity	39.20	40.45	3.19	±5
					Conductivity	1.80	1.84	2.22	±5
2025-10-27	23.9	40	5200	23.5	Permittivity	36.00	36.39	1.08	±5
					Conductivity	4.66	4.60	-1.29	±5
2025-10-27	21.3	57	5400	21	Permittivity	35.80	36.21	1.15	±5
					Conductivity	4.86	4.87	0.21	±5
2025-10-27	23.3	59	5800	23	Permittivity	35.30	36.25	2.69	±5
					Conductivity	5.27	5.24	-0.57	±5

5. SAR System Validation

5.1 Validation System

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

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



5.2 Validation Result

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

Date	Freq.	Power	Power drift	Tested Value	Normalized SAR	Target SAR	Tolerance
	(MHz)	(mW)	(%)	(W/Kg)	(W/kg)	1g(W/kg)	(%)
2025-10-28	835	100	0.976	9.76	9.63	1.35	10
2025-10-30	1800	100	3.654	36.54	36.60	-0.16	10
2025-10-31	1900	100	4.015	40.15	40.20	-0.12	10
2025-10-28	2450	100	5.317	53.17	52.98	0.36	10
2025-10-27	5200	100	7.781	77.81	77.84	-0.04	10
2025-10-27	5400	100	7.663	76.63	76.82	-0.25	10
2025-10-27	5800	100	8.053	80.53	80.51	0.02	10

Note:

1. The tolerance limit of System validation ±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 to16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme.

- Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 * 32 mm is assessed by measuring 5 or 8 * 5 or 8*4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

➢ Area Scan& Zoom Scan

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

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

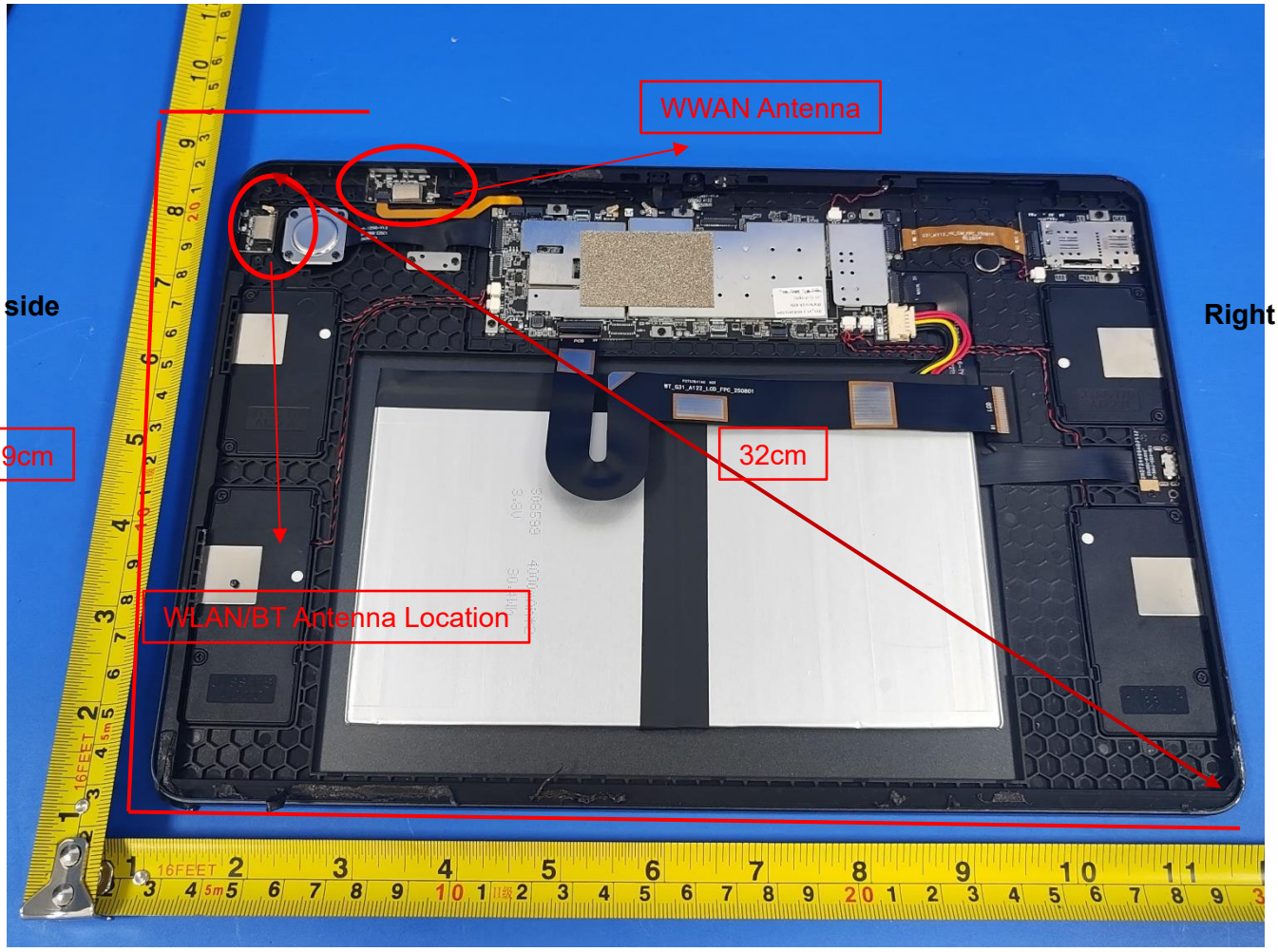
7. EUT Antenna Location Sketch

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

Top side

Left side

Right side



Bottom side
(Front view)

Antenna Separation Distance(mm)						
ANT	Back Side	Front Side	Left Side	Right Side	Top Side	Bottom Side
WLAN/BT	≤0.5	≤0.5	5	260	15	160
WWAN	≤0.5	≤0.5	35	215	≤0.5	175

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 V
	Calculated Frequency (MHz)	848.8	1880	1907.6	846.6
	Maximum Turn-up power (dBm)	29	29.5	25	24.5
	Maximum rated power(mW)	794.33	891.25	316.23	281.84
Back Side	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	16.28	10.94	10.86	16.30
	Testing required?	YES	YES	YES	YES
Front Side	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	16.28	10.94	10.86	16.30
	Testing required?	YES	YES	YES	YES
Left Edge	Separation distance (mm)	35	35	35	35
	exclusion threshold(mW)	113.97	76.58	76.02	114.12
	Testing required?	YES	YES	YES	YES
Right Edge	Separation distance (mm)	215	215	215	215
	exclusion threshold(mW)	1096.49	1759.40	1758.60	1094.28
	Testing required?	NO	NO	NO	NO
Top Edge	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	16.28	10.94	10.86	16.30
	Testing required?	YES	YES	YES	YES
Bottom Edge	Separation distance (mm)	175	175	175	175
	exclusion threshold(mW)	870.15	1359.40	1358.60	868.52
	Testing required?	NO	NO	NO	NO

Exposure Position	Wireless Interface	LTE Band 2	LTE Band 4	BT	2.4G WLAN
	Calculated Frequency (MHz)	1900	1732.5	2480	2462
	Maximum Turn-up power (dBm)	21.5	24	3.3	16.3
	Maximum rated power(mW)	141.25	251.19	2.14	42.66
Back Side	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	10.88	11.40	9.53	9.56
	Testing required?	YES	YES	NO	YES
Front Side	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	10.88	11.40	9.53	9.56
	Testing required?	YES	YES	NO	YES
Left Edge	Separation distance (mm)	35	35	5	5
	exclusion threshold(mW)	76.18	79.77	9.53	9.56
	Testing required?	YES	YES	NO	YES
Right Edge	Separation distance (mm)	215	215	260	260
	exclusion threshold(mW)	1758.82	1763.96	2195.25	2195.60
	Testing required?	NO	NO	NO	NO
Top Edge	Separation distance (mm)	5	5	15	15
	exclusion threshold(mW)	10.88	11.40	28.58	28.68
	Testing required?	YES	YES	NO	YES
Bottom Edge	Separation distance (mm)	175	175	160	160
	exclusion threshold(mW)	1358.82	1363.96	1195.25	1195.60
	Testing required?	NO	NO	NO	NO

Exposure Position	Wireless Interface	5.2G WLAN	5.3G WLAN	5.8G WLAN
	Calculated Frequency (MHz)	5210	5310	5755
	Maximum Turn-up power (dBm)	9.6	10.2	11.3
	Maximum rated power(mW)	9.12	10.47	13.49
Back Side	Separation distance (mm)	5	5	5
	exclusion threshold(mW)	6.57	6.51	6.25
	Testing required?	YES	YES	YES
Front Side	Separation distance (mm)	5	5	5
	exclusion threshold(mW)	6.57	6.51	6.25
	Testing required?	YES	YES	YES
Left Edge	Separation distance (mm)	5	5	5
	exclusion threshold(mW)	6.57	6.51	6.25
	Testing required?	YES	YES	YES
Right Edge	Separation distance (mm)	260	260	260
	exclusion threshold(mW)	2165.72	2165.09	2162.53
	Testing required?	NO	NO	NO
Top Edge	Separation distance (mm)	15	15	15
	exclusion threshold(mW)	19.71	19.53	18.76
	Testing required?	NO	NO	NO
Bottom Edge	Separation distance (mm)	160	160	160
	exclusion threshold(mW)	1165.72	1165.09	1162.53
	Testing required?	NO	NO	NO

Note：

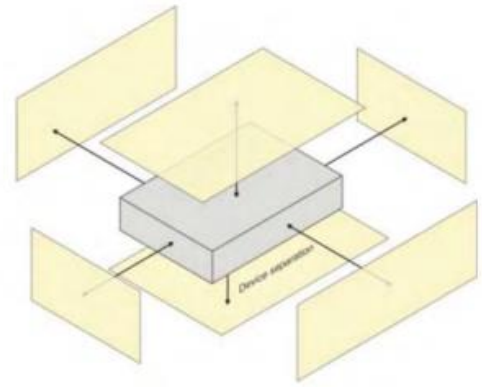
1. maximum power is the source-based time-average power and represents the maximum RF output power among production units.
2. per KDB 447498 D01, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
3. per KDB 447498 D01, standalone SAR test exclusion threshold is applied; if the distance of the antenna to the user is <25mm,25mm is user to determine SAR exclusion threshold
4. per KDB 447498 D01, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distance ≤50mm are determined by:
   [(max.power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]*[√f(GHz）)≤3.0 for 1-g SAR and≤7.5 for10-g extremity SAR ,f(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 (MHz)/150)]mW, at 100 MHz to 1500 MHz
   b) [threshold at 50mm in step1]+(test separation distance -50mm) *10]mW at＞1500MHz and≤ 6GHz
6. Per KDB 248227 D01, choose the highest output power channel to test SAR and determine further SAR exclusion 8.for each frequency band ,testing at higher data rates and higher order modulations is not required when the maximum average output power for each of each of these configurations is less than 1/4db higher than those measured at the lower data rate than 11b mode ,thus the SAR can be excluded.

8. EUT Test Position

This EUT was tested in Back Side and Top Side.

8.1 Body-worn Position Conditions

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 form 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	√3	√0.5	√0.5	1.43	1.43	∞
Hemispherical Isotropy	5.9	R	√3	√0.5	√0.5	2.41	2.41	∞
Boundary effect	1	R	√3	1	1	0.58	0.58	∞
Linearity	4.7	R	√3	1	1	2.71	2.71	∞
System detection limits	1	R	√3	1	1	0.58	0.58	∞
Modulation response	3	R	√3	1	1	1.73	1.73	∞
Readout Electronics	0.5	N	1	1	1	0.50	0.50	∞
Response Time	0	R	√3	1	1	0.00	0.00	∞
Integration Time	1.4	R	√3	1	1	1.81	1.81	∞
RF ambient conditions-Noise	3	R	√3	1	1	1.73	1.73	∞
RF ambient conditions-reflections	3	R	√3	1	1	1.73	1.73	∞
Probe positioner mechanical tolerance	1.4	R	√3	1	1	0.81	0.81	∞
Probe positioning with respect to phantom shell	1.4	R	√3	1	1	0.81	0.81	∞
Extrapolation, Interpolation and Integration Algoritms for Max, SAR	2.3	R	√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	√3	1	1	2.89	2.89	∞
SAR scaling	2	R	√3	1	1	1.15	1.15	∞
Phantom and tissue parameters								
Phantom uncertainty (shape and thickness uncertainty)	4	R	√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	√3	0.78	0.71	1.13	1.02	∞
Liquid Permittivity (Temperature Uncertainty)	2.5	R	√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 Algoritms 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)	31.57	32.16	32.02	29.99	29.98	29.29
GPRS (GMSK, 1-Slot)	31.54	32.12	31.99	30.05	30.01	29.34
GPRS (GMSK, 2-Slot)	30.86	31.43	31.29	29.31	29.35	28.69
GPRS (GMSK, 3-Slot)	28.88	29.46	29.34	27.24	27.33	26.76
GPRS (GMSK, 4-Slot)	27.81	28.39	28.25	26.1	26.25	25.73
EGPRS (8PSK, 1-Slot)	30.99	31.85	32.06	28.01	28.22	28.29
EGPRS (8PSK, 2-Slot)	30.22	30.97	31.51	26.9	27.47	27.56
EGPRS (8PSK, 3-Slot)	29.13	29.43	29.88	25.32	25.9	25.96
EGPRS (8PSK, 4-Slot)	27.8	28.52	28.89	24.58	25.19	25.06
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)	22.54	23.13	22.99	20.96	20.95	20.26
GPRS (GMSK, 1-Slot)	22.51	23.09	22.96	21.02	20.98	20.31
GPRS (GMSK, 2-Slot)	24.84	25.41	25.27	23.29	23.33	22.67
GPRS (GMSK, 3-Slot)	24.62	25.20	25.08	22.98	23.07	22.50
GPRS (GMSK, 4-Slot)	24.80	25.38	25.24	23.09	23.24	22.72
EGPRS (8PSK, 1-Slot)	21.96	22.82	23.03	18.98	19.19	19.26
EGPRS (8PSK, 2-Slot)	24.20	24.95	25.49	20.88	21.45	21.54
EGPRS (8PSK, 3-Slot)	24.87	25.17	25.62	21.06	21.64	21.70
EGPRS (8PSK, 4-Slot)	24.79	25.51	25.88	21.57	22.18	22.05
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 5		
Channel	9262	9400	9538	4132	4182	4233
Frequency (MHz)	1852.4	1880	1907.6	826.4	836.4	846.6
RMC 12.2Kbps	24.54	24.75	24.78	24.15	24.28	24.47
HSDPA Subtest-1	23.65	23.87	23.89	23.2	23.3	23.53
HSDPA Subtest-2	23.36	23.46	23.43	22.75	22.95	23.18
HSDPA Subtest-3	22.04	22.72	22.3	21.91	21.85	21.83
HSDPA Subtest-4	21.97	22.54	22.58	21.52	22.07	22.21
HSUPA Subtest-1	23.13	23.62	23.69	22.18	23.16	23.34
HSUPA Subtest-2	23.59	23.76	23.68	23.24	23.14	23.45
HSUPA Subtest-3	21.98	22.28	22.6	21.53	22.03	22.18
HSUPA Subtest-4	23.59	23.8	23.84	23.22	23.3	23.55
HSUPA Subtest-5	22.36	23.24	23.17	22.03	22.61	22.92

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≤ CM≤3.5	MAX(CM-1,0)
Note: CM=1 for βc/βd=12/15, βhs/ βc=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.

2.4G WLAN

2.4GWIFI				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11b	1	2412	15.29	33.81
	6	2437	15.91	38.99
	11	2462	16.24	42.07
802.11g	1	2412	15.9	38.90
	6	2437	15.96	39.45
	11	2462	15.22	33.27
802.11 n-HT20	1	2412	14.17	26.12
	6	2437	14.58	28.71
	11	2462	15.33	34.12
802.11 n-HT40	3	2422	14.45	27.86
	6	2437	14.42	27.67
	9	2452	14.62	28.97

Bluetooth

BT				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	-2.25	0.60
	39	2441	-0.58	0.87
	78	2480	0.44	1.11
π/4-QPSK(2Mbps)	0	2402	-0.12	0.97
	39	2441	1.71	1.48
	78	2480	2.71	1.87
8DPSK(3Mbps)	0	2402	0.39	1.09
	39	2441	2.2	1.66
	78	2480	3.2	2.09

BLE

BLE				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	-2.56	0.55
	19	2440	-1.62	0.69
	39	2480	-3.49	0.45
GFSK(2Mbps)	0	2402	-2.26	0.59
	19	2440	-1.59	0.69
	39	2480	-2.74	0.53

WLAN (5.2Gband)

5.2G WLAN				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a20	36	5180	8.51	7.10
	40	5200	8.32	6.79
	48	5240	8.34	6.82
802.11 n-HT20	36	5180	8.42	6.95
	40	5200	8.37	6.87
	48	5240	8.39	6.90
802.11 n-HT40	38	5190	9.28	8.47
	46	5230	9.33	8.57
802.11ac-VHT20	36	5180	8.18	6.58
	40	5200	8.35	6.84
	48	5240	8.25	6.68
802.11ac-VHT40	38	5190	9.15	8.22
	46	5230	9.42	8.75
802.11ac-VHT80	42	5210	9.57	9.06

WLAN (5.3G band)

5.3G WLAN				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a20	52	5260	8.91	7.78
	60	5300	9.27	8.45
	64	5320	9.42	8.75
802.11 n-HT20	52	5260	8.85	7.67
	60	5300	9.27	8.45
	64	5320	9.41	8.73
802.11 n-HT40	54	5270	9.78	9.51
	62	5310	10.14	10.33
802.11ac-VHT20	52	5260	8.95	7.85
	60	5300	9.22	8.36
	64	5320	9.47	8.85
802.11ac-VHT40	54	5270	9.77	9.48
	62	5310	10.02	10.05
802.11ac-VHT80	58	5290	9.76	9.46

WLAN (5.8G band)

5.8G WLAN				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a20	149	5745	9.67	9.27
	157	5785	9.79	9.53
	165	5825	9.57	9.06
802.11 n-HT20	149	5745	9.71	9.35
	157	5785	9.85	9.66
	165	5825	9.59	9.10
802.11 n-HT40	151	5755	11.23	13.27
	159	5795	11.05	12.74
802.11ac-VHT20	149	5745	9.81	9.57
	157	5785	9.84	9.64
	165	5825	9.63	9.18
802.11ac-VHT40	151	5755	11.25	13.34
	159	5795	11.03	12.68
802.11ac-VHT80	155	5775	10.55	11.35

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 ½ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05, 16QAM SAR testing is not required.
7. Per KDB 941225 D05, Smaller bandwidth output power for each RB allocation configuration is > not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05, smaller bandwidth SAR testing is not required.

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	20.79	21.15	21.27
1.4	1	2		20.84	21.14	21.3
1.4	1	5		20.83	21.14	21.27
1.4	3	0		20.81	21.07	21.11
1.4	3	1		20.81	21.06	21.12
1.4	3	2		20.83	21.06	21.13
1.4	6	0		19.81	20.06	20.14
1.4	1	0	16-QAM	20.02	20	20.4
1.4	1	2		19.99	20.04	20.34
1.4	1	5		20.05	20.06	20.38
1.4	3	0		20.04	20.21	20.3
1.4	3	1		20.08	20.21	20.29
1.4	3	2		20.05	20.23	20.27
1.4	6	0		18.97	19.2	19.29
3	1	0	QPSK	20.82	20.99	21.16
3	1	7		20.86	21.04	21.16
3	1	14		20.91	21.04	21.14
3	8	0		19.82	20.06	20.14
3	8	4		19.82	20.06	20.18
3	8	7		19.86	20.08	20.25
3	15	0		19.82	20.07	20.21
3	1	0	16-QAM	19.73	20.48	20.36
3	1	7		19.76	20.51	20.35
3	1	14		19.77	20.5	20.37
3	8	0		18.8	19.05	19.12
3	8	4		18.8	19.06	19.15
3	8	7		18.84	19.09	19.24
3	15	0		18.88	19.07	19.13

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	20.83	21.04	21.2
5	1	12		20.87	21.08	21.23
5	1	24		20.93	21.1	21.25
5	12	0		19.84	20.06	20.14
5	12	6		19.85	20.05	20.16
5	12	11		19.93	20.08	20.19
5	25	0		19.96	20.12	20.23
5	1	0	16-QAM	20.17	20.41	20.76
5	1	12		20.23	20.45	20.79
5	1	24		20.27	20.48	20.77
5	12	0		18.82	19.07	19.16
5	12	6		18.84	19.11	19.16
5	12	11		18.9	19.13	19.26
5	25	0		18.92	19.05	19.12
10	1	0	QPSK	20.84	21.11	21.08
10	1	24		20.92	21.18	21.14
10	1	49		21	21.16	21.16
10	25	0		19.85	20.06	20.17
10	25	12		19.93	20.06	20.14
10	25	24		20.04	20.13	20.23
10	50	0		19.95	20.09	20.21
10	1	0	16-QAM	19.99	19.95	20.53
10	1	24		20.08	20.01	20.57
10	1	49		20.16	20.05	20.65
10	25	0		18.83	19.05	19.16
10	25	12		18.91	19.02	19.15
10	25	24		19.03	19.09	19.27
10	50	0		18.95	19.02	19.19

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	20.84	21.08	21.03
15	1	37		20.96	21.13	21.13
15	1	74		21.06	21.07	21.2
15	36	0		19.82	20.05	20.16
15	36	18		19.93	20.05	20.12
15	36	39		20.01	20.11	20.18
15	75	0		20.02	20.1	20.15
15	1	0	16-QAM	20.02	20.17	20.47
15	1	38		20.14	20.25	20.64
15	1	75		20.23	20.17	20.66
15	36	0		18.88	19.04	19.17
15	36	18		19	19.01	19.15
15	36	39		19.08	19.06	19.22
15	75	0		18.93	19.1	19.19
20	1	0	QPSK	20.84	21.05	21.07
20	1	49		21	21.1	21.22
20	1	99		21.15	21.07	21.35
20	50	0		19.81	20.13	20.14
20	50	24		20.02	20.11	20.14
20	50	49		20	20.21	20.21
20	100	0		19.93	20.16	20.18
20	1	0	16-QAM	20.11	20.4	20.3
20	1	49		20.28	20.44	20.45
20	1	99		20.37	20.43	20.57
20	50	0		18.87	19.14	19.12
20	50	24		19.05	19.12	19.14
20	50	49		19.02	19.24	19.18
20	100	0		18.91	19.16	19.1

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.76	23.5	23.69
1.4	1	2		23.74	23.52	23.74
1.4	1	5		23.72	23.51	23.72
1.4	3	0		23.62	23.51	23.72
1.4	3	1		23.63	23.49	23.71
1.4	3	2		23.65	23.51	23.71
1.4	6	0		22.64	22.49	22.69
1.4	1	0	16-QAM	22.92	22.77	22.57
1.4	1	2		22.94	22.75	22.67
1.4	1	5		22.92	22.8	22.59
1.4	3	0		22.81	22.73	22.88
1.4	3	1		22.79	22.73	22.86
1.4	3	2		22.78	22.75	22.84
1.4	6	0		21.86	21.69	21.86
3	1	0	QPSK	23.69	23.47	23.63
3	1	7		23.69	23.49	23.68
3	1	14		23.69	23.51	23.67
3	8	0		22.65	22.53	22.69
3	8	4		22.64	22.52	22.74
3	8	7		22.63	22.54	22.73
3	15	0		22.66	22.51	22.71
3	1	0	16-QAM	22.63	22.95	22.89
3	1	7		22.74	22.99	22.91
3	1	14		22.52	23.01	22.9
3	8	0		21.69	21.54	21.7
3	8	4		21.62	21.54	21.72
3	8	7		21.61	21.53	21.74
3	15	0		21.72	21.54	21.63

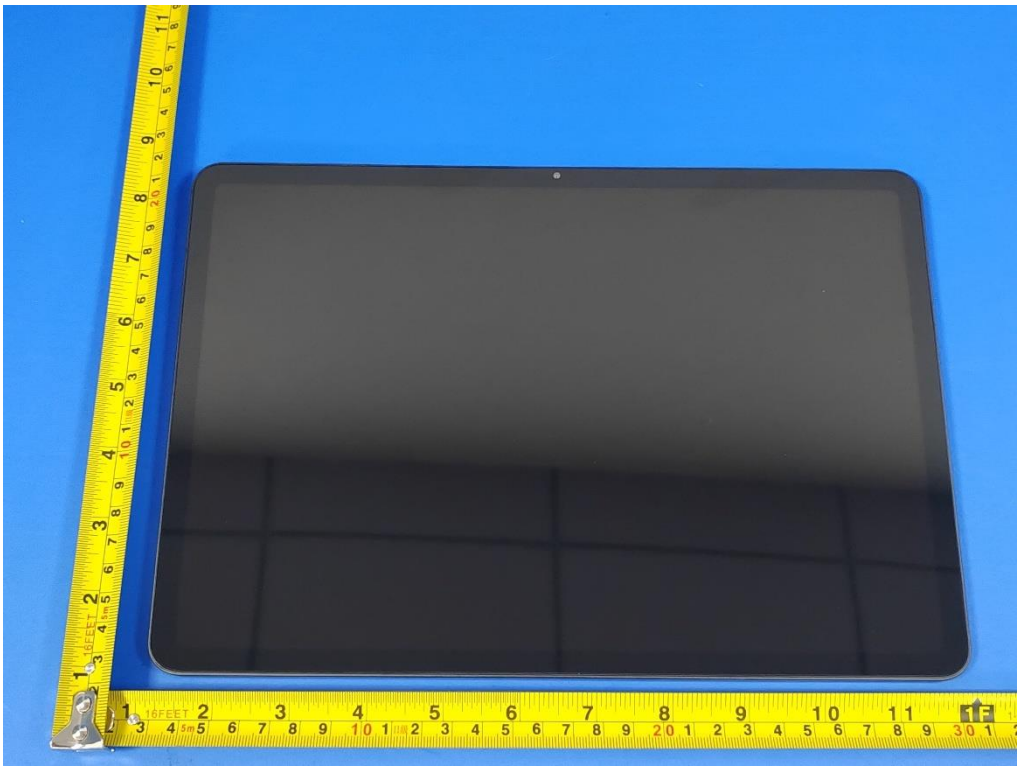
LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.69	23.59	23.77
5	1	12		23.7	23.69	23.81
5	1	24		23.62	23.66	23.83
5	12	0		22.72	22.59	22.75
5	12	6		22.68	22.56	22.75
5	12	11		22.67	22.55	22.79
5	25	0		22.73	22.62	22.82
5	1	0	16-QAM	23.07	23.14	23.14
5	1	12		23.15	23.21	23.18
5	1	24		23.02	23.24	23.18
5	12	0		21.76	21.6	21.69
5	12	6		21.72	21.55	21.72
5	12	11		21.72	21.58	21.76
5	25	0		21.68	21.56	21.81
10	1	0	QPSK	23.79	23.47	23.77
10	1	24		23.71	23.58	23.72
10	1	49		23.63	23.68	23.75
10	25	0		22.7	22.59	22.76
10	25	12		22.65	22.59	22.75
10	25	24		22.66	22.62	22.81
10	50	0		22.69	22.6	22.78
10	1	0	16-QAM	22.66	22.95	22.95
10	1	24		22.56	23.03	22.95
10	1	49		22.52	23.16	22.99
10	25	0		21.69	21.57	21.73
10	25	12		21.63	21.57	21.72
10	25	24		21.63	21.63	21.79
10	50	0		21.63	21.58	21.78

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.81	23.44	23.76
15	1	37		23.67	23.65	23.85
15	1	74		23.59	23.75	23.83
15	36	0		22.68	22.53	22.74
15	36	18		22.6	22.6	22.77
15	36	39		22.57	22.66	22.78
15	75	0		22.64	22.62	22.81
15	1	0	16-QAM	22.85	22.94	22.96
15	1	38		22.77	23.16	23.09
15	1	75		22.63	23.24	23.03
15	36	0		21.63	21.56	21.83
15	36	18		21.57	21.61	21.83
15	36	39		21.52	21.68	21.86
15	75	0		21.68	21.64	21.79
20	1	0	QPSK	23.74	23.57	23.69
20	1	49		23.57	23.74	23.86
20	1	99		23.65	23.94	23.81
20	50	0		22.68	22.6	22.77
20	50	24		22.65	22.64	22.83
20	50	49		22.59	22.73	22.91
20	100	0		22.63	22.66	22.83
20	1	0	16-QAM	23.19	22.81	22.98
20	1	49		23	22.98	23.14
20	1	99		23.07	23.15	23.13
20	50	0		21.71	21.57	21.81
20	50	24		21.67	21.61	21.87
20	50	49		21.61	21.7	21.94
20	100	0		21.61	21.66	21.81

11. EUT and Test Setup Photo

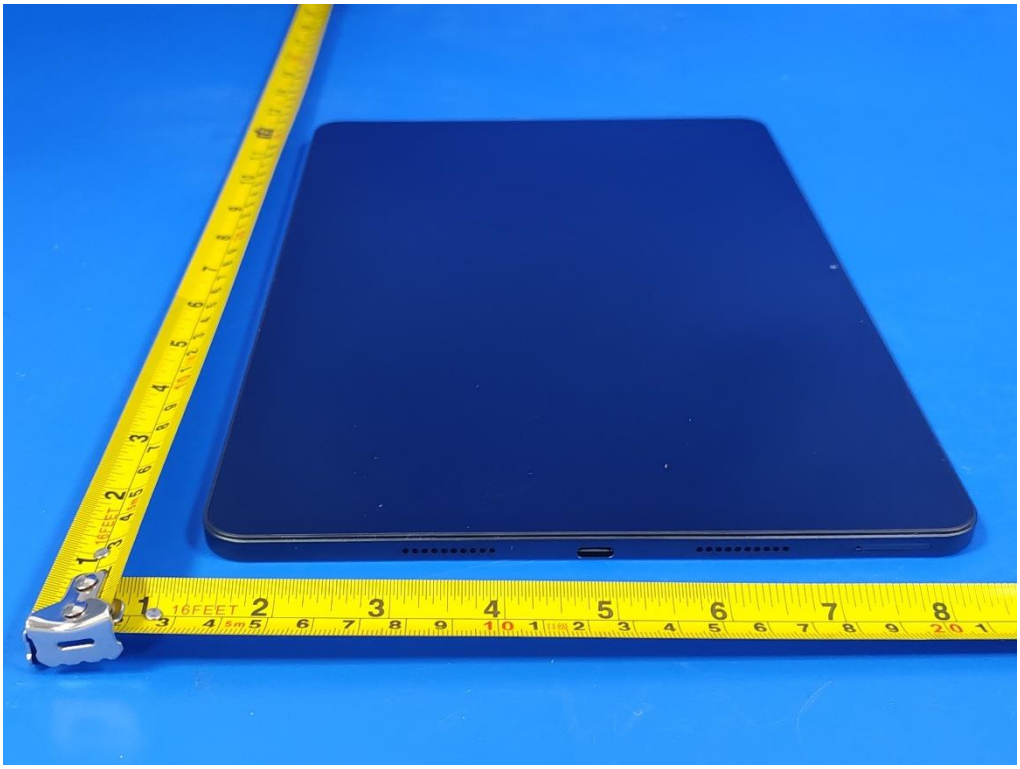
11.1 EUT Photos

Front side

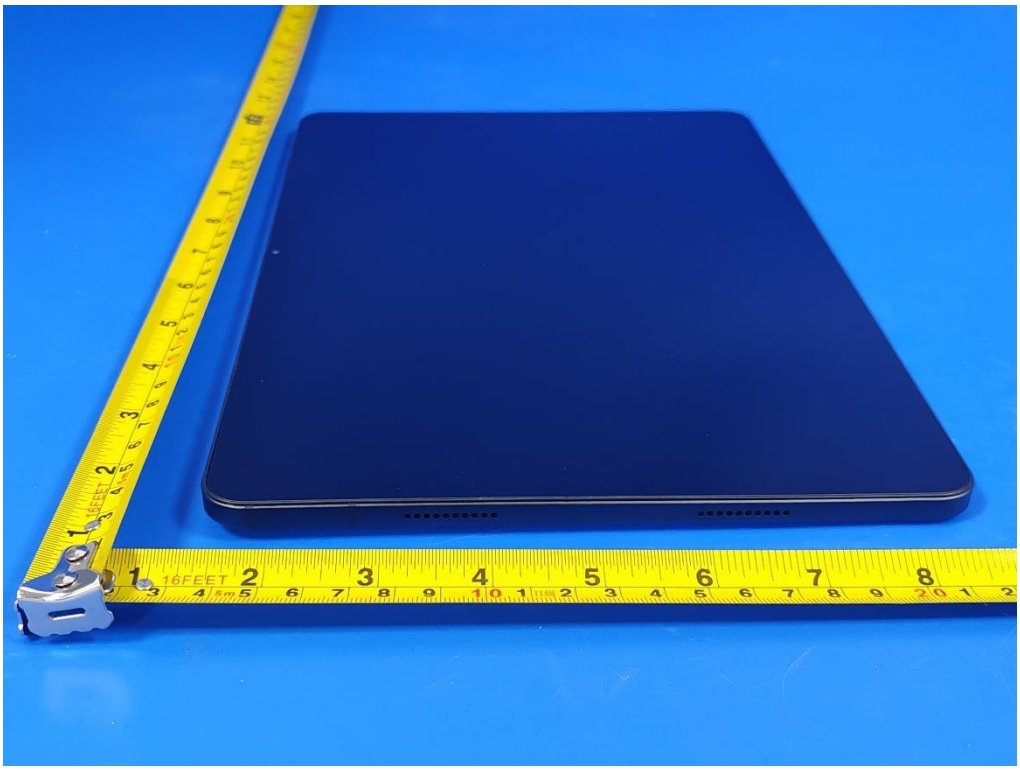


Back side

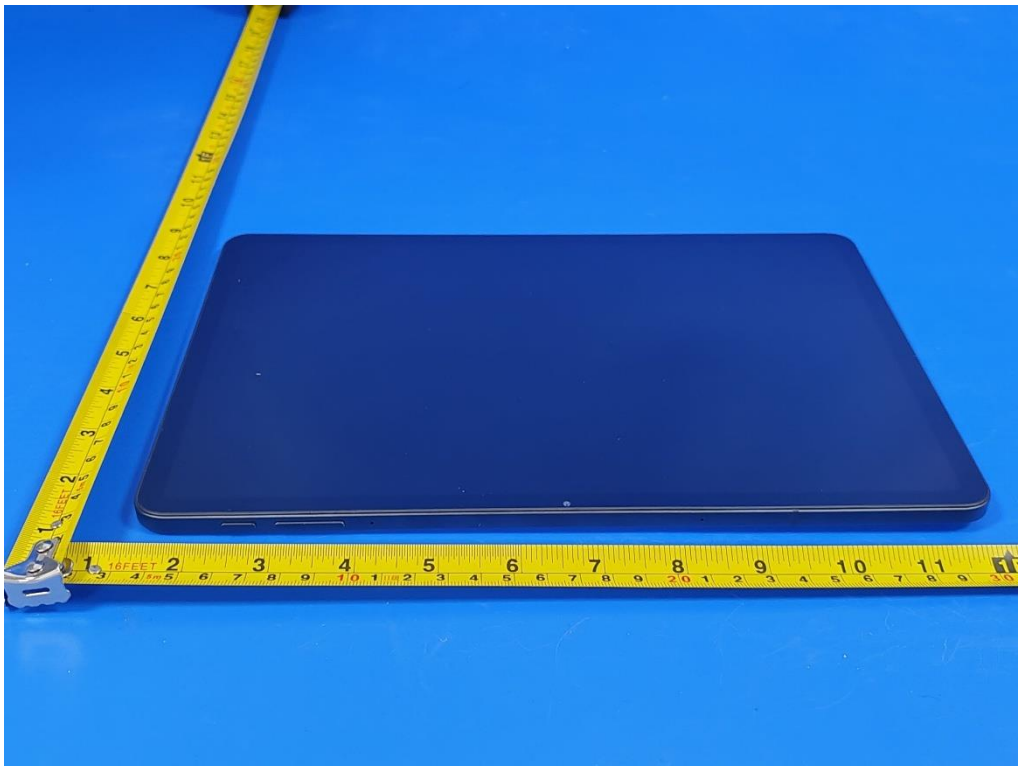
Right Edge



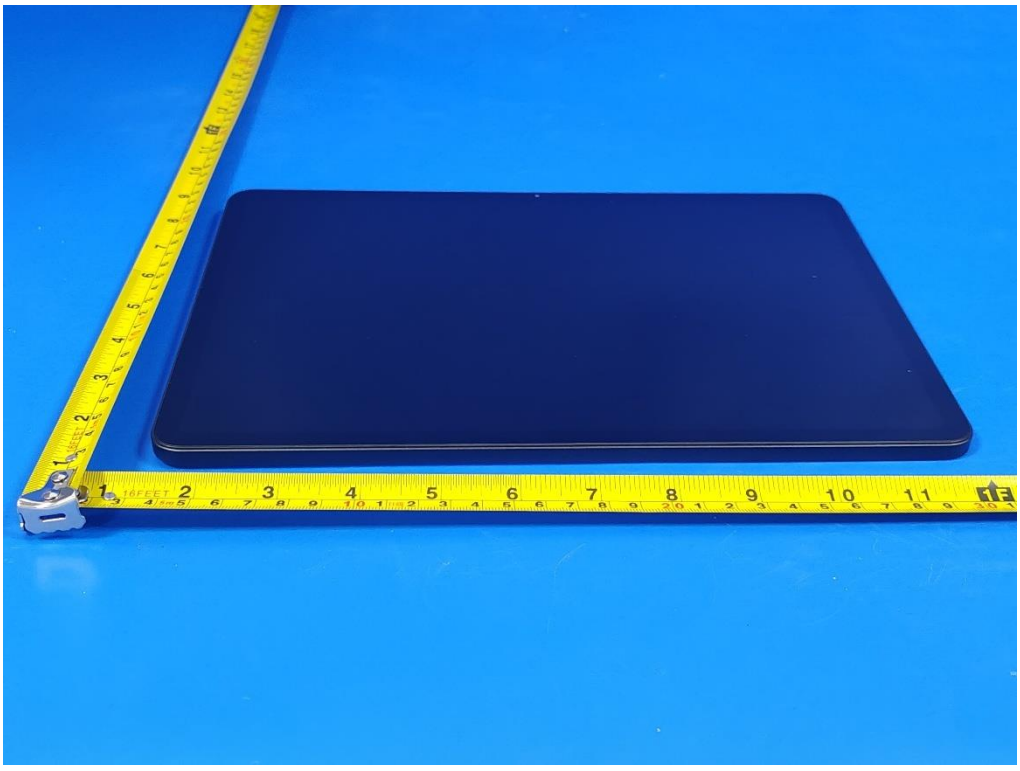
Left Edge



Top Edge



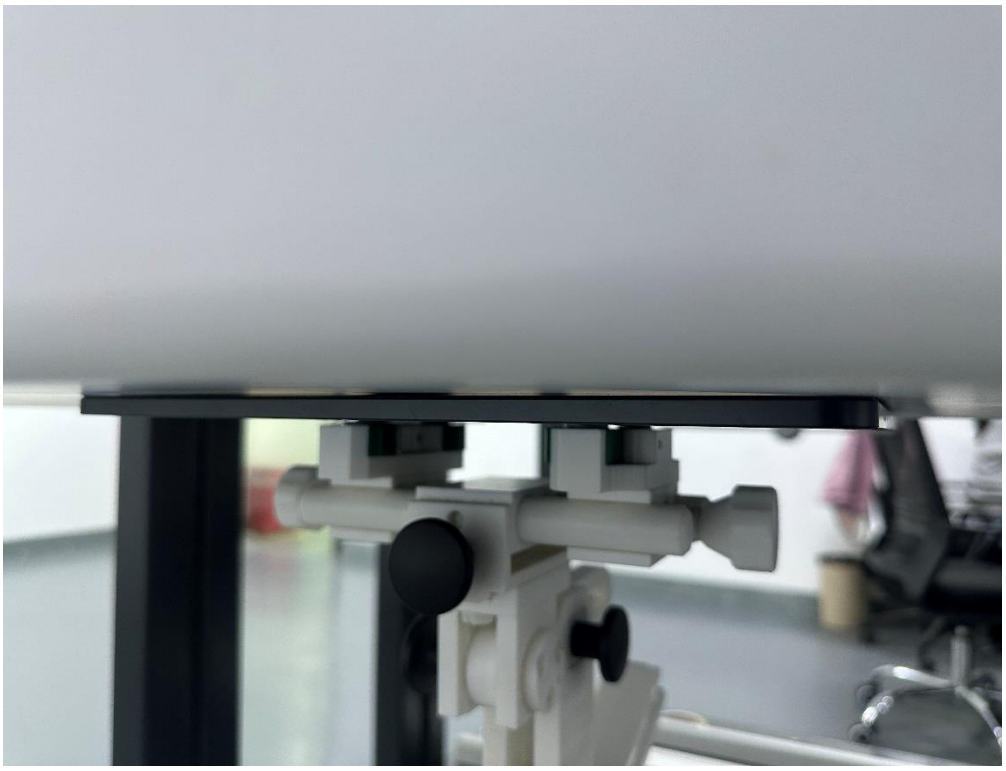
Bottom Edge



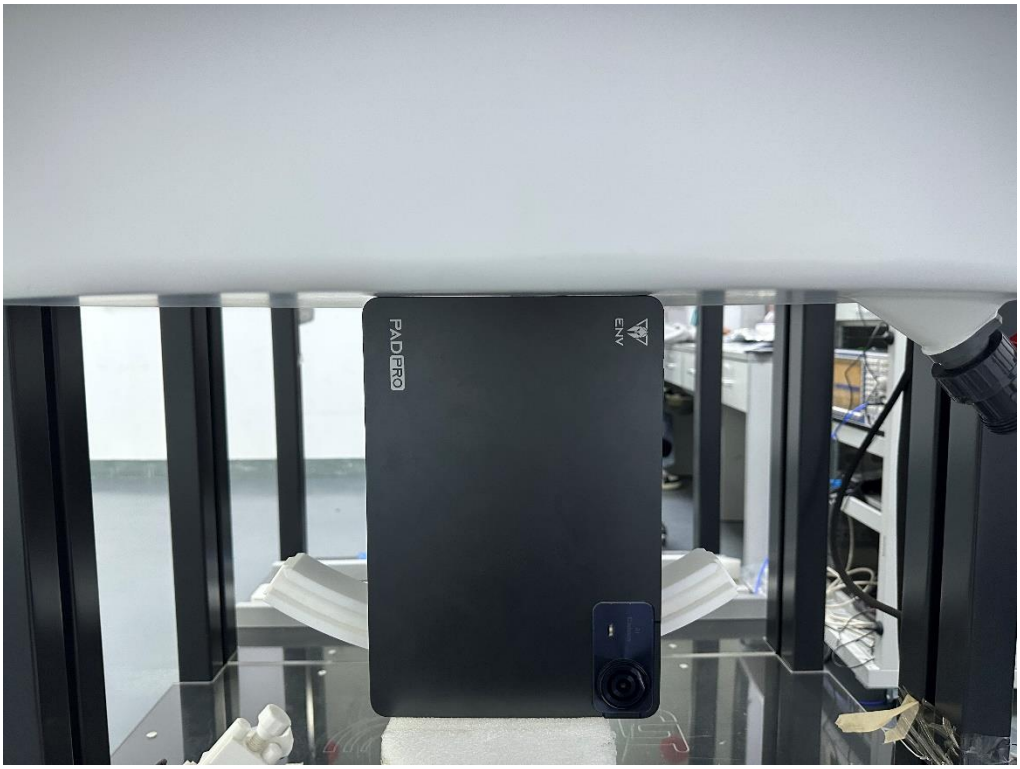
11.2 Setup Photos

Body Front side (separation distance is 0mm)

Body Back side (separation distance 0mm)



Body Left side (separation distance is 0mm)

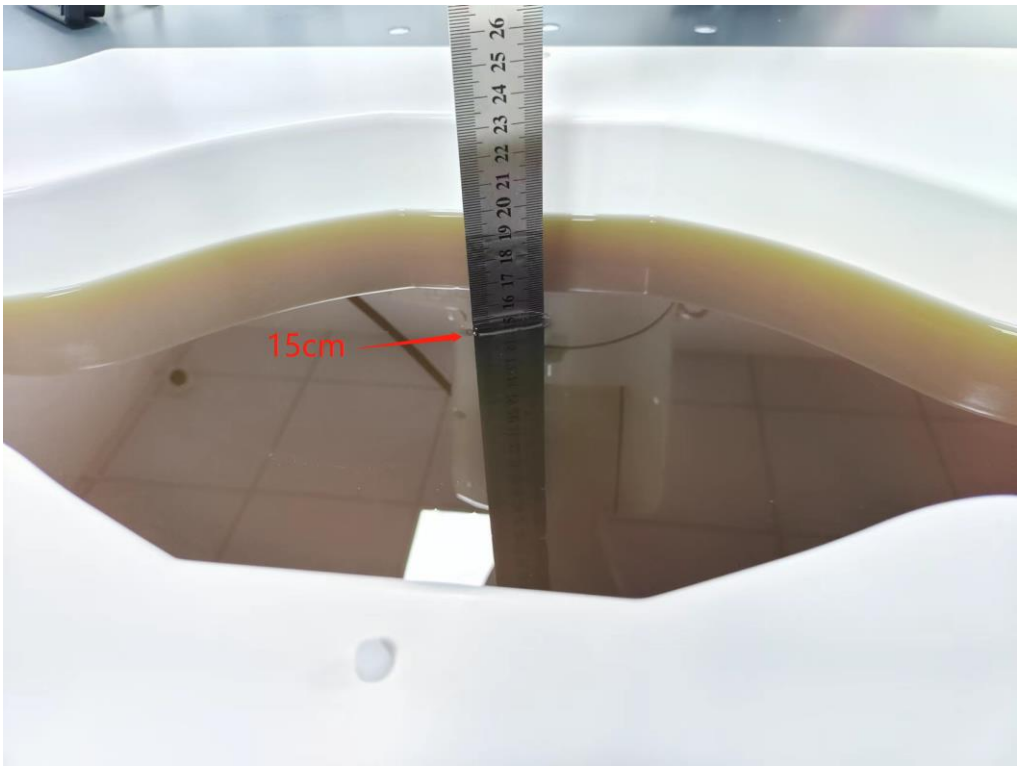


Body Right side (separation distance is 0mm)

Body Top side (separation distance is 0mm)

Body Bottom side (separation distance is 0mm)

Liquid depth (15 cm)



12. SAR Result Summary

12.1 Body-worn and Hotspot SAR

Band	Model	Test Position	Freq.	SAR (1g) (W/kg)	Power Drift (%)	Max. Turn-up Power (dBm)	Meas. Output Power (dBm)	Scaling Factor	Scaled SAR (W/Kg)	Meas. No.
GSM850	GPRS (GMSK, 2-Slot)	Front Side	848.8	0.123	-2.12	29.00	28.89	1.026	0.126	/
		Back Side	848.8	0.107	2.34	29.00	28.89	1.026	0.110	/
		Left Side	848.8	0.115	0.44	29.00	28.89	1.026	0.118	/
		Top Side	848.8	0.250	-2.32	29.00	28.89	1.026	**0.256**	**1**
PCS 1900	EGPRS (8PSK, 4-Slot)	Front Side	1880	0.277	-3.71	29.50	29.35	1.035	0.287	/
		Back Side	1880	0.235	0.53	29.50	29.35	1.035	0.243	/
		Left Side	1880	0.254	1.67	29.50	29.35	1.035	0.263	/
		Right Side	1880	0.138	1.27	29.50	29.35	1.035	0.143	/
		Top Side	1880	0.565	-2.09	29.50	29.35	1.035	**0.585**	**2**
WCDMA Band II	RMC	Front Side	1907.6	0.25	0.08	25.00	24.78	1.052	0.263	/
		Back Side	1907.6	0.206	-3.12	25.00	24.78	1.052	0.217	/
		Left Side	1907.6	0.226	-3.98	25.00	24.78	1.052	0.238	/
		Top Side	1907.6	0.502	3.72	25.00	24.78	1.052	**0.528**	**3**
WCDMA Band V	RMC	Front Side	846.6	0.352	-2.35	24.50	24.47	1.007	0.354	/
		Back Side	846.6	0.294	0.34	24.50	24.47	1.007	0.296	/
		Left Side	846.6	0.319	3.37	24.50	24.47	1.007	0.321	/
		Top Side	826.4	0.651	-3.01	24.50	24.15	1.084	0.706	/
		Top Side	836.4	0.676	0.19	24.50	24.28	1.052	0.711	/
		Top Side	846.6	0.709	-0.72	24.50	24.47	1.007	**0.714**	**4**
2.4GHz WLAN	802.11b	Front Side	2462	0.245	-3.01	16.30	16.24	1.014	0.248	/
		Back Side	2462	0.133	3.69	16.30	16.24	1.014	0.135	/
		Left Side	2462	0.494	2.57	16.30	16.24	1.014	**0.501**	**5**
		Top Side	2462	0.286	-3.55	16.30	16.24	1.014	0.290	/
5.2GHz WLAN	802.11ac-VHT80	Front Side	5210	0.292	-0.63	9.60	9.57	1.007	0.294	/
		Back Side	5210	0.162	0.75	9.60	9.57	1.007	0.163	/
		Left Side	5210	0.595	0.65	9.60	9.57	1.007	**0.599**	**6**
5.3GHz WLAN	802.11n-HT40	Front Side	5310	0.27	-2.51	10.20	10.14	1.014	0.274	/
		Back Side	5310	0.149	-3.06	10.20	10.14	1.014	0.151	/
		Left Side	5310	0.545	3.25	10.20	10.14	1.014	**0.553**	**7**
5.8GHz WLAN	802.11ac-VHT40	Front Side	5755	0.142	3.51	11.30	11.25	1.012	0.144	/
		Back Side	5755	0.077	-0.96	11.30	11.25	1.012	0.078	/
		Left Side	5755	0.286	-0.47	11.30	11.25	1.012	**0.289**	**8**

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	0.245	0.79	21.50	21.35	1.035	0.254	/
			50	0	Front side	1900	0.197	2.78	20.30	20.21	1.021	0.201	/
			1	0	Back Side	1900	0.123	-3.78	21.50	21.35	1.035	0.127	/
			50	0	Back Side	1900	0.098	-0.37	20.30	20.21	1.021	0.100	/
			1	0	Left Side	1900	0.433	1.36	21.50	21.35	1.035	0.448	/
			50	0	Left Side	1900	0.35	-1.37	20.30	20.21	1.021	0.357	/
			1	0	Top Side	1900	0.536	-0.89	21.50	21.35	1.035	**0.555**	**9**
			50	0	Top Side	1900	0.482	-2.58	20.30	20.21	1.021	0.492	/
LTE Band 4	20M	QPSK	1	0	Front side	1732.5	0.115	1.95	24.00	23.94	1.014	0.117	/
			50	0	Front side	1745	0.092	3.74	23.00	22.91	1.021	0.094	/
			1	0	Back Side	1732.5	0.057	1.42	24.00	23.94	1.014	0.058	/
			50	0	Back Side	1745	0.048	-3.41	23.00	22.91	1.021	0.049	/
			1	0	Left Side	1732.5	0.202	0.10	24.00	23.94	1.014	0.205	/
			50	0	Left Side	1745	0.162	3.85	23.00	22.91	1.021	0.165	/
			1	0	Top Side	1732.5	0.249	3.21	24.00	23.94	1.014	**0.252**	**10**
			50	0	Top Side	1745	0.226	-1.81	23.00	22.91	1.021	0.231	/

Note:

1. The test separation of all above table is 0mm.
2. Per KDB 447498 D01, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
   a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
   b. Scaled SAR(W/kg) = Measured SAR(W/kg) *Tune-up Scaling Factor
3. When the user enables the personal Wireless router functions for the handsets, actual operations include simultaneous transmission of both the Wi-Fi transmitting frequency and thus cannot be evaluated for SAR under actual use conditions. The “Portable Hotspot” feature on the handset was NOT activated, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal.

12.2 Simultaneous Multi-band Transmission Evaluation

Application Simultaneous Transmission information:

Position	Simultaneous State
Body	1. GSM + 2.4GHz WLAN/5G WLAN
	2. GSM + Bluetooth
	3. WCDMA + 2.4GHz WLAN/5G WLAN
	4. WCDMA + Bluetooth
	5. LTE + 2.4GHz WLAN/5G WLAN
	6. LTE + Bluetooth

NOTE:
1. Bluetooth and WLAN can't simultaneous transmission at the same time.
2. For simultaneous transmission at head and body exposure position, 2 transmitters simultaneous transmission was the worst state.
3. If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.
4. KDB 447498 / 4.3.2 (2) when standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:
a) (max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[√f (GHz) /x] W/kg for test separation distances≤ 50 mm;
Where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR.
b) 0.4W/Kg for 1-g SAR and 1.0W/Kg for 10-g SAR, when the separation distance is >50mm.

Estimated SAR		Maximum Turn-up Power		Antenna to user(mm)	Frequency(GHz)	Stand Alone SAR(1g) [W/kg]
		dBm	mW			
BT	Body	3.3	2.138	5	2.48	0.090

Simultaneous Mode	Position	Mode	Max. 1-g SAR (W/kg)	1-g Sum SAR (W/kg)
GSM + 2.4G WLAN	Body	GSM	0.585	1.086
		2.4G WLAN	0.501	
GSM + Bluetooth	Body	GSM	0.585	0.675
		BT	0.090	
GSM + 5G WLAN	Body	GSM	0.585	1.184
		5G WLAN	0.599	
WCDMA + 2.4G WLAN	Body	WCDMA	0.714	1.215
		2.4G WLAN	0.501	
WCDMA + Bluetooth	Body	WCDMA	0.714	0.804
		BT	0.090	
WCDMA + 5G WLAN	Body	WCDMA	0.714	1.313
		5G WLAN	0.599	
LTE + 2.4G WLAN	Body	LTE	0.555	1.056
		2.4G WLAN	0.501	
LTE + Bluetooth	Body	LTE	0.555	0.645
		BT	0.090	
LTE + 5G WLAN	Body	LTE	0.555	1.154
		5G WLAN	0.599	

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
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
5000MHz Dipole	MVG	DIP5G000	SN 06/22 DIP5G000-653	2025.05.22	2028.05.21
6500-7000 MHz DIPOLE	MVG	SID7000	2225-DIP7G000-809	2025.05.28	2028.05.27
E-Field Probe	MVG	SSE2	2225-EPGO-450	2025.06.06	2026.06.05
Liquid Calibration Kit	MVG	OCPG 87	SN 06/22 OCPG87	2025.06.02	2026.06.01
Antenna	MVG	ANTA 73	SN 06/22 ANTA 73	N/A	N/A
Ellipsoid Phantom	MVG	ELLI 51	SN 06/22 ELLI 51	N/A	N/A
Phantom	MVG	SAM 148	SN 06/22 SAM148	N/A	N/A
Phone holder	MVG	MSH 117	SN 06/22 MSH 117	N/A	N/A
Laptop positioner	MVG	LSH 36	SN 06/22 LSH 38	N/A	N/A
Directional coupler	SHW	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

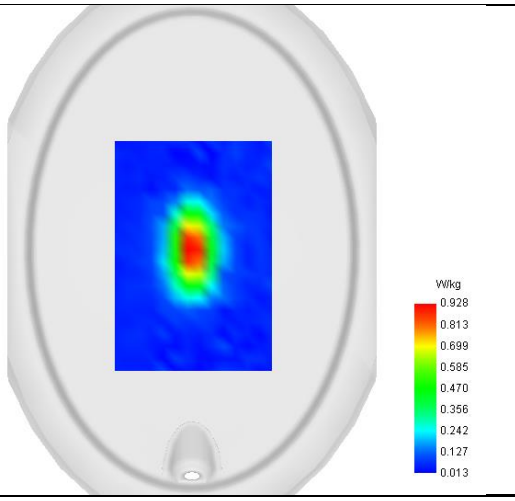
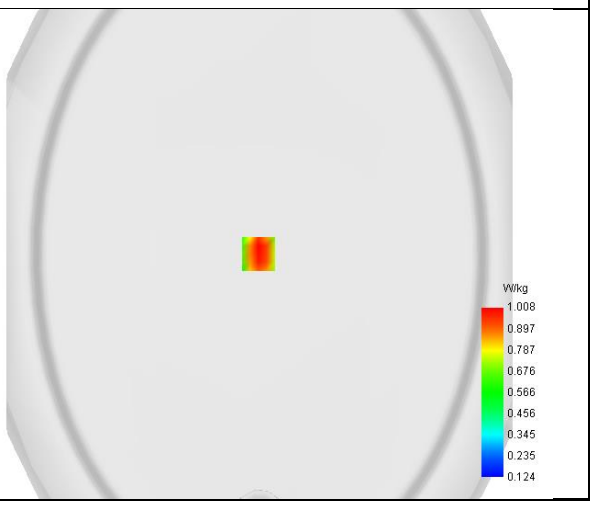
Appendix A. System Validation Plots

System Performance Check Data (835MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2025-10-28

Experimental conditions.

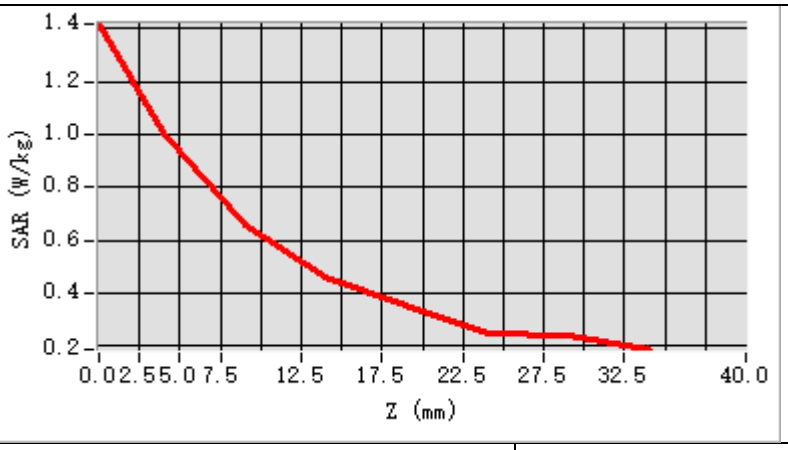
Phantom	Validation plane
Device Position	Dipole
Band	CW835
Channels	Middle
Signal	CW
Frequency (MHz)	835.000
Relative permittivity	42.09
Conductivity (S/m)	0.88
Probe	2225-EPGO-450
ConvF	1.02
Crest factor:	1:1

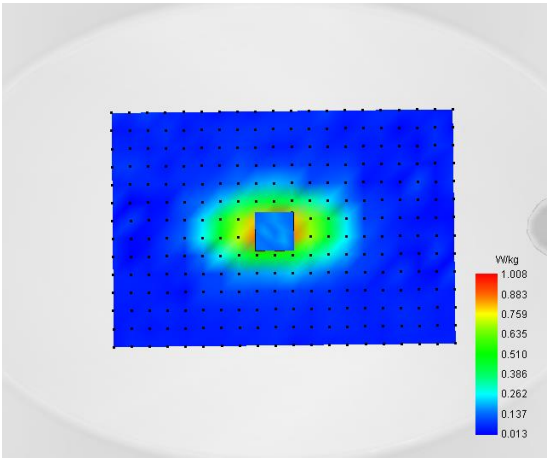
SURFACE SAR	VOLUME SAR
	

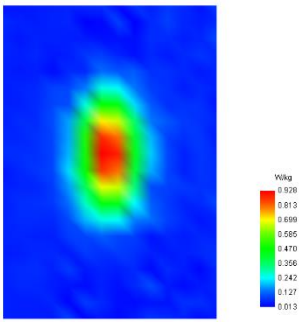
Maximum location: X=-1.00, Y=0.00 ; SAR Peak: 1.43 W/kg

SAR 10g (W/Kg)	0.597
SAR 1g (W/Kg)	0.976

Z Axis Scan


1.4
1.2
1.0
0.8
0.6
0.4
0.2
SAR (W/kg)
0.0 2.5 5.0 7.5 12.5 17.5 22.5 27.5 32.5 40.0
Z (mm)


W/kg
1.008
0.883
0.759
0.635
0.510
0.386
0.262
0.137
0.013

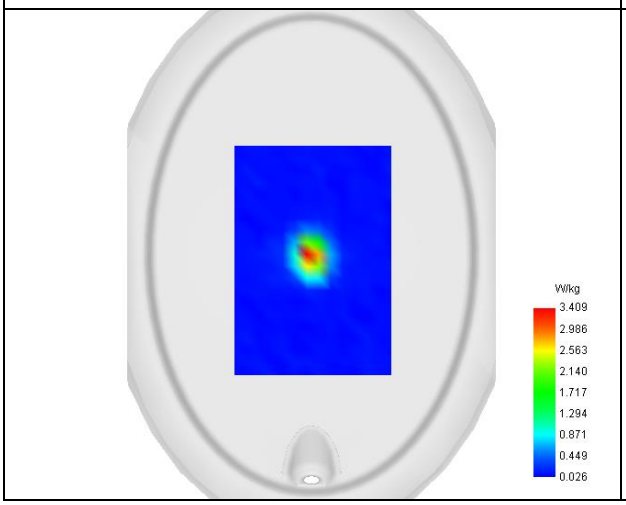
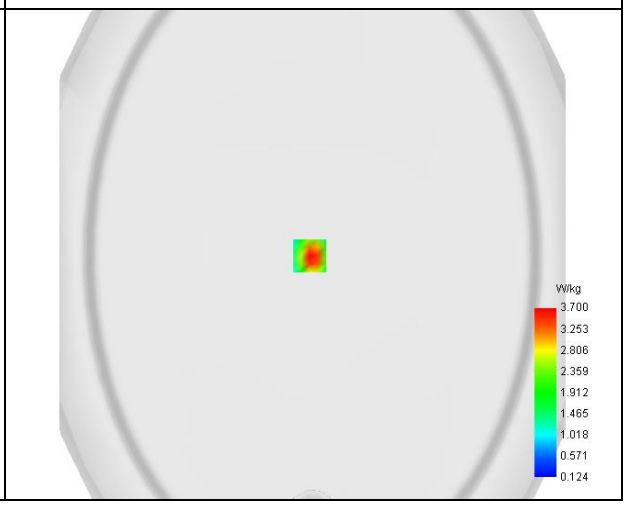


System Performance Check Data (1800MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm, dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement:2025-10-30

Experimental conditions.

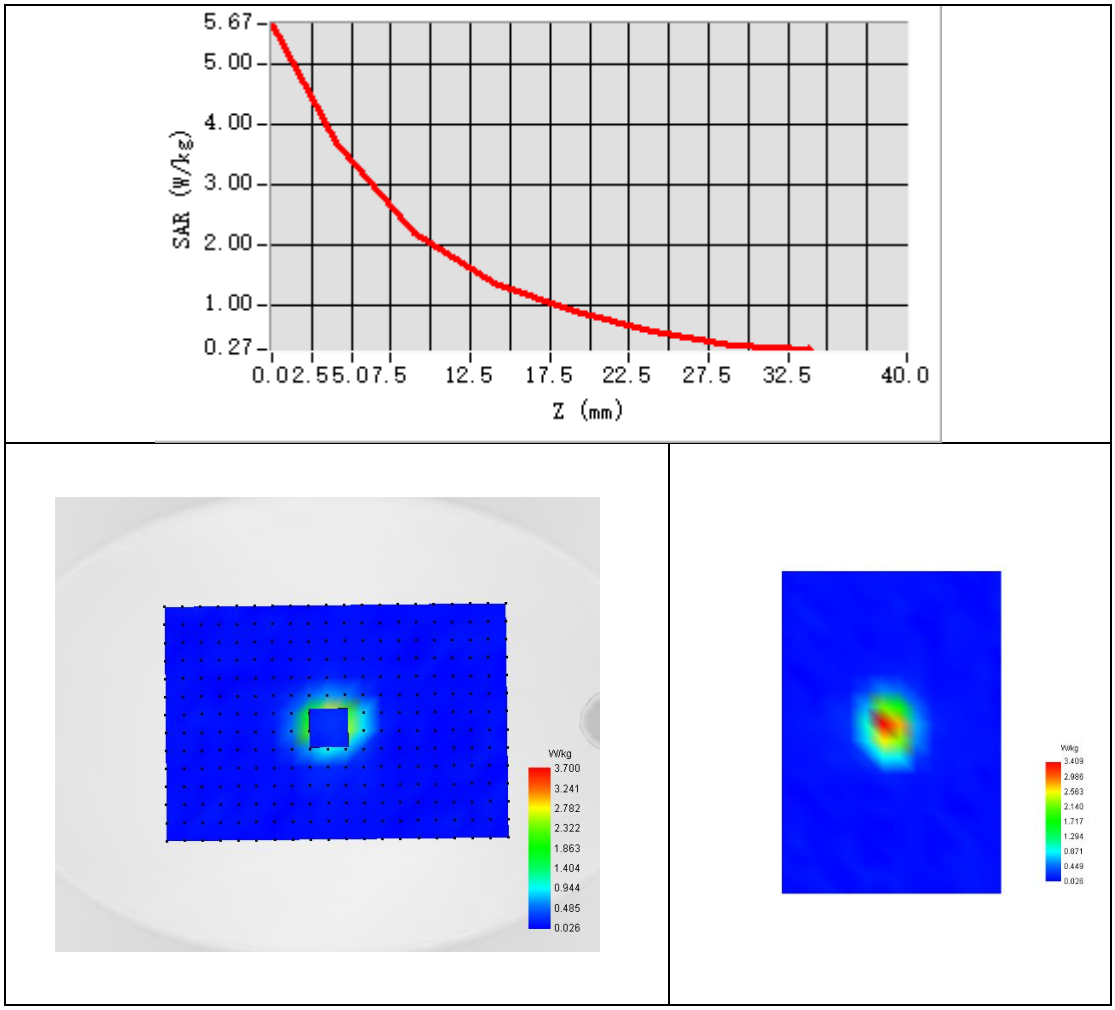
Phantom	Validation plane
Device Position	Dipole
Band	CW1800
Channels	Middle
Signal	CW
Frequency (MHz)	1800.000
Relative permittivity	40.31
Conductivity (S/m)	1.41
Probe	2225-EPGO-450
ConvF	1.21
Crest factor:	1:1

SURFACE	VOLUME SAR
	

Maximum location: X=-3.00, Y=1.00 ; SAR Peak: 5.88 W/kg

SAR 10g (W/Kg)	1.919
SAR 1g (W/Kg)	3.654

Z Axis Scan

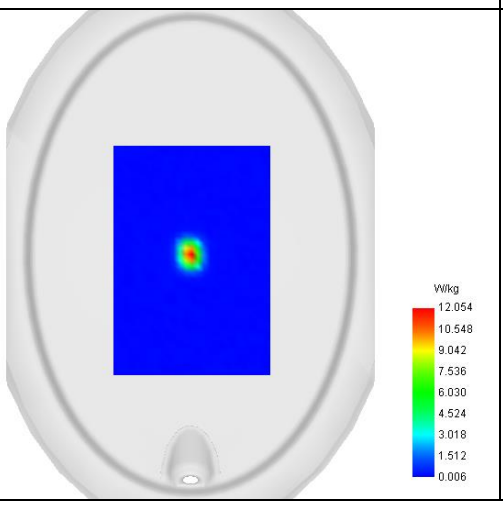
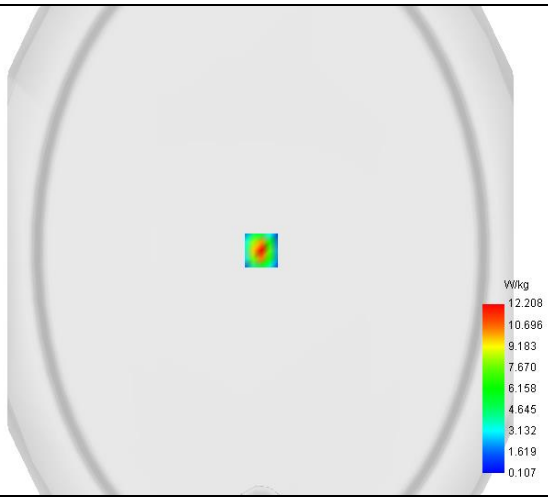

5.67
5.00
4.00
3.00
2.00
1.00
0.27
SAR (W/kg)
0.0 2.5 5.0 7.5 12.5 17.5 22.5 27.5 32.5 40.0
Z (mm)
W/kg
3.700
3.241
2.782
2.322
1.863
1.404
0.944
0.485
0.026
W/kg
3.409
2.986
2.563
2.140
1.717
1.294
0.871
0.449
0.026

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:2025-10-31

Experimental conditions.

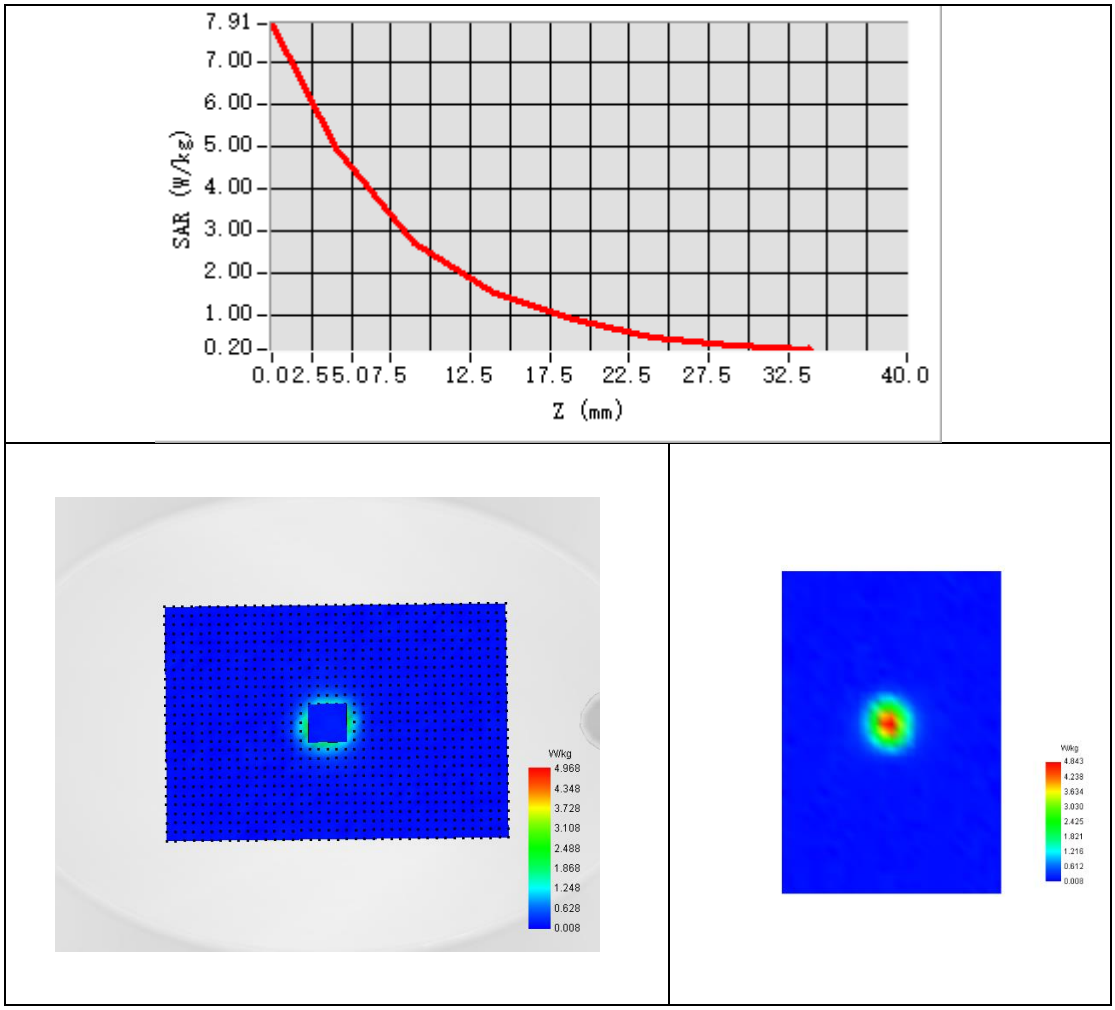
Phantom	Validation plane
Device Position	Dipole
Band	CW1900
Channels	Middle
Signal	CW
Frequency (MHz)	1900.000
Relative permittivity	40.52
Conductivity (S/m)	1.42
Probe	2225-EPGO-450
ConvF	1.34
Crest factor:	1:1

SURFACE	VOLUME SAR
	

Maximum location: X=2.00, Y=0.00 ; SAR Peak: 6.09 W/kg

SAR 10g (W/Kg)	2.044
SAR 1g (W/Kg)	4.015

Z Axis Scan

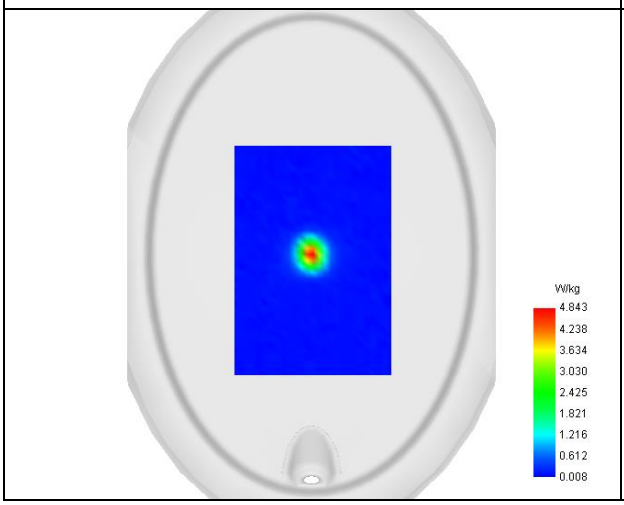
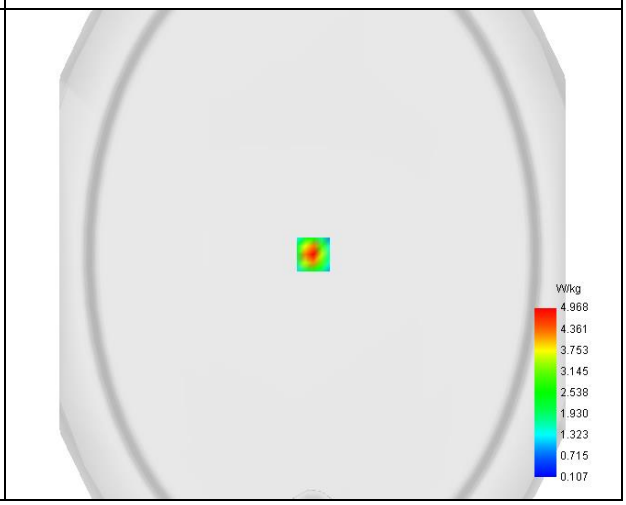

7.91
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.20
SAR (W/kg)
0.0 2.5 5.0 7.5 12.5 17.5 22.5 27.5 32.5 40.0
Z (mm)
W/kg
4.968
4.348
3.728
3.108
2.488
1.868
1.248
0.628
0.008
W/kg
4.843
4.238
3.634
3.030
2.425
1.821
1.216
0.612
0.008

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:2025-10-28

Experimental conditions.

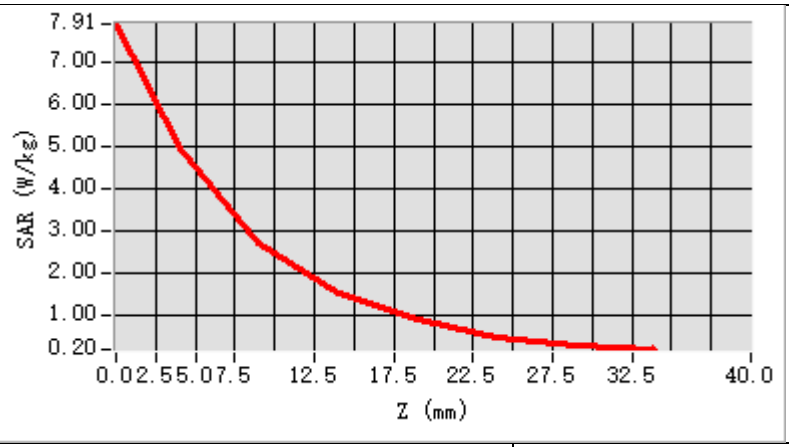
Phantom	Validation plane
Device Position	Dipole
Band	CW2450
Channels	Middle
Signal	CW
Frequency (MHz)	2450.000
Relative permittivity	40.45
Conductivity (S/m)	1.84
Probe	2225-EPGO-450
ConvF	1.51
Crest factor:	1:1

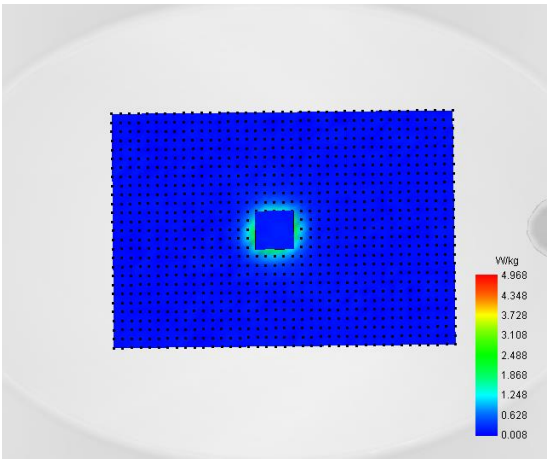
SURFACE	VOLUME SAR
	

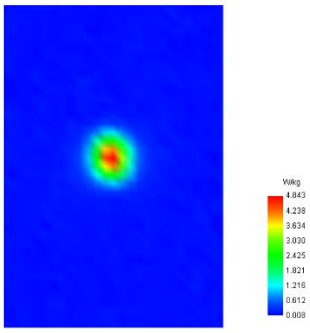
Maximum location: X=1.00, Y=0.00 ; SAR Peak: 7.93 W/kg

SAR 10g (W/Kg)	2.498
SAR 1g (W/Kg)	5.317

Z Axis Scan


7.91
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.20
SAR (W/kg)
0.0 2.5 5.0 7.5 12.5 17.5 22.5 27.5 32.5 40.0
Z (mm)


W/kg
4.968
4.348
3.728
3.108
2.488
1.868
1.248
0.628
0.008

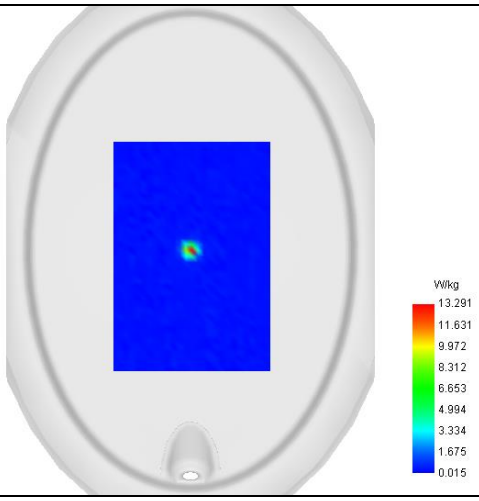
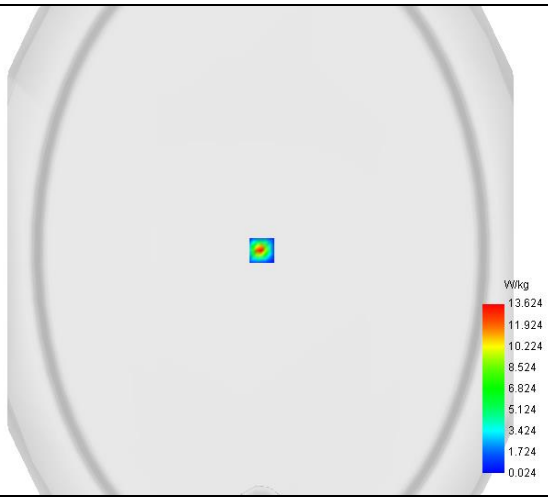

W/kg
4.843
4.238
3.634
3.030
2.425
1.821
1.216
0.612
0.008

System Performance Check Data (5200MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm, dy=8mm
Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm
Date of measurement:2025-10-27

Experimental conditions.

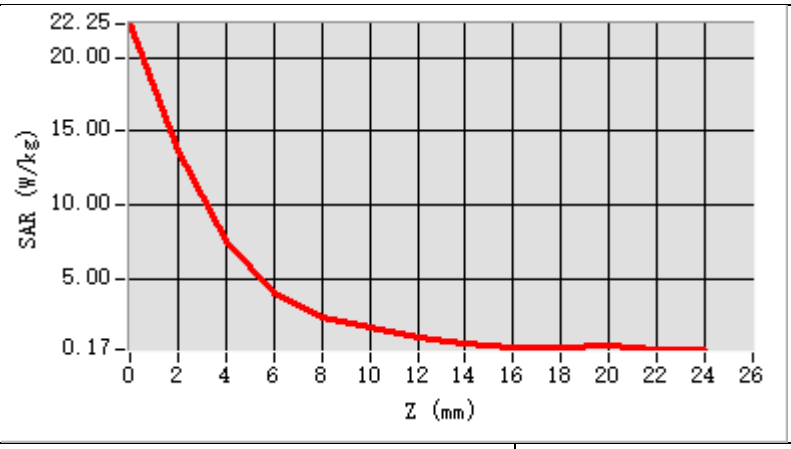
Phantom	Validation plane
Device Position	Dipole
Band	CW5200
Channels	Middle
Signal	CW
Frequency (MHz)	5200.000
Relative permittivity	36.39
Conductivity (S/m)	4.60
Probe	2225-EPGO-450
ConvF	1.58
Crest factor:	1:1

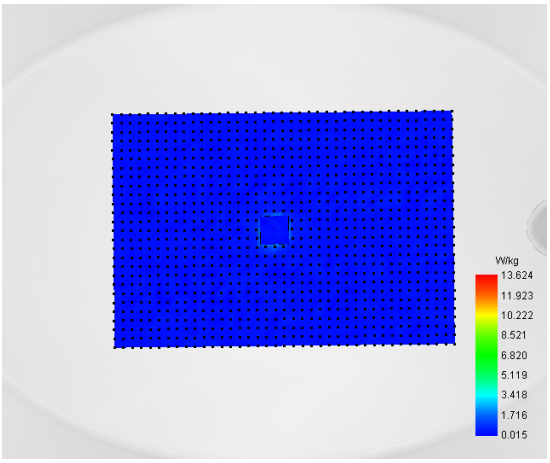
SURFACE	VOLUME SAR
	

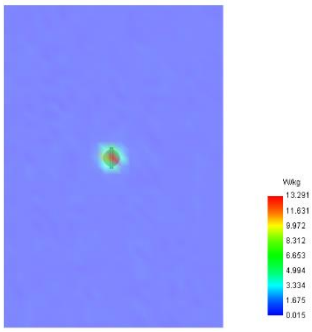
Maximum location: X=1.00, Y=0.00 ; SAR Peak: 23.48 W/kg

SAR 10g (W/Kg)	2.267
SAR 1g (W/Kg)	7.781

Z Axis Scan


22.25
20.00
15.00
10.00
5.00
0.17
SAR (W/kg)
0
2
4
6
8
10
12
14
16
18
20
22
24
26
Z (mm)


W/kg
13.624
11.923
10.222
8.521
6.820
5.119
3.418
1.716
0.015

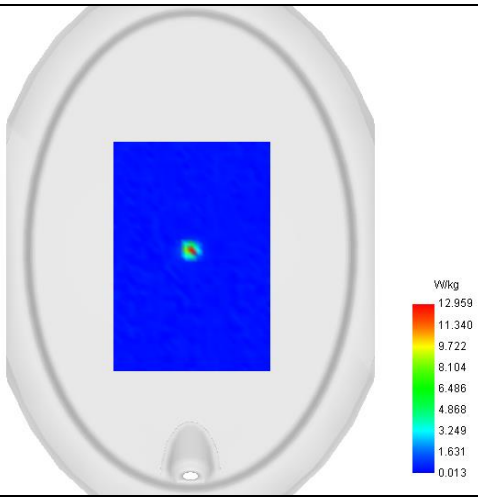
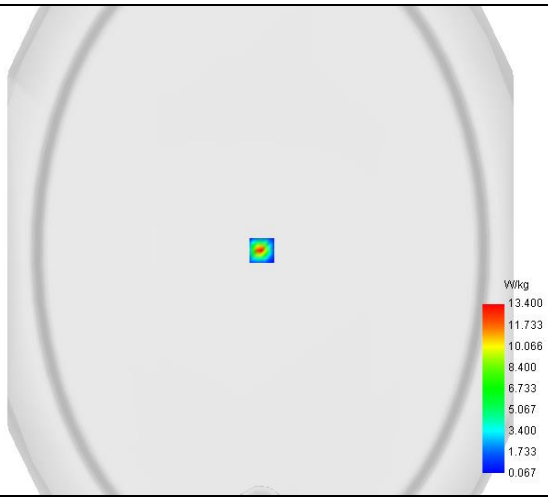

W/kg
13.291
11.631
9.972
8.312
6.653
4.994
3.334
1.675
0.015

System Performance Check Data (5400MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm, dy=8mm
Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm
Date of measurement:2025-10-27

Experimental conditions.

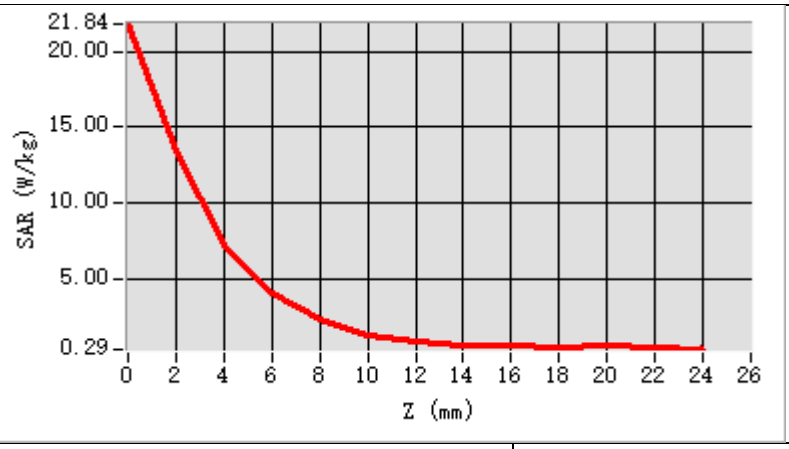
Phantom	Validation plane
Device Position	Dipole
Band	CW5400
Channels	Middle
Signal	CW
Frequency (MHz)	5400.000
Relative permittivity	36.21
Conductivity (S/m)	4.87
Probe	2225-EPGO-450
ConvF	1.60
Crest factor:	1:1

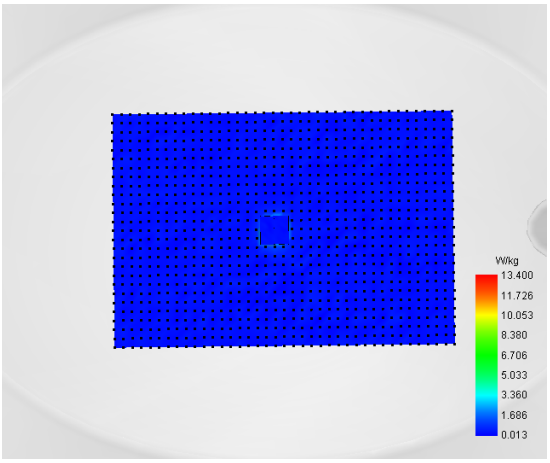
SURFACE	VOLUME SAR
	

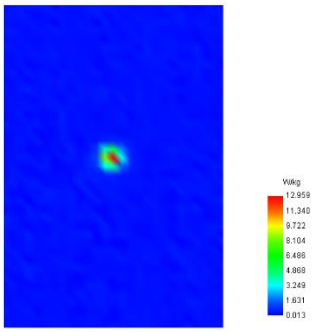
Maximum location: X=6.00, Y=5.00 ; SAR Peak: 25.76 W/kg

SAR 10g (W/Kg)	2.257
SAR 1g (W/Kg)	7.663

Z Axis Scan


21.84
20.00
15.00
10.00
5.00
0.29
SAR (W/kg)
0
2
4
6
8
10
12
14
16
18
20
22
24
26
Z (mm)


W/kg
13.400
11.726
10.053
8.380
6.706
5.033
3.360
1.686
0.013

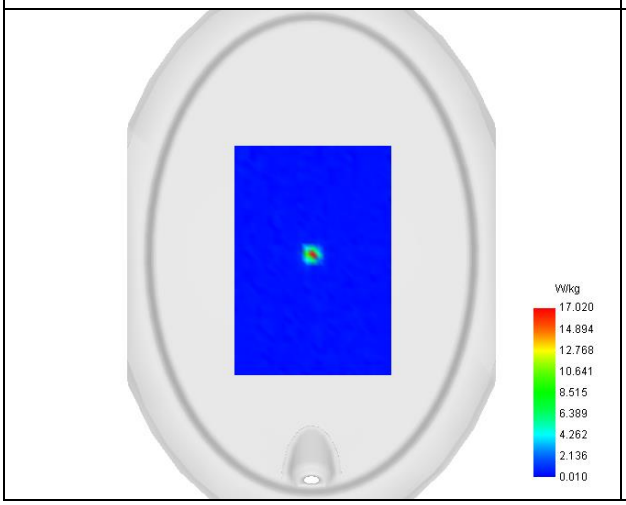
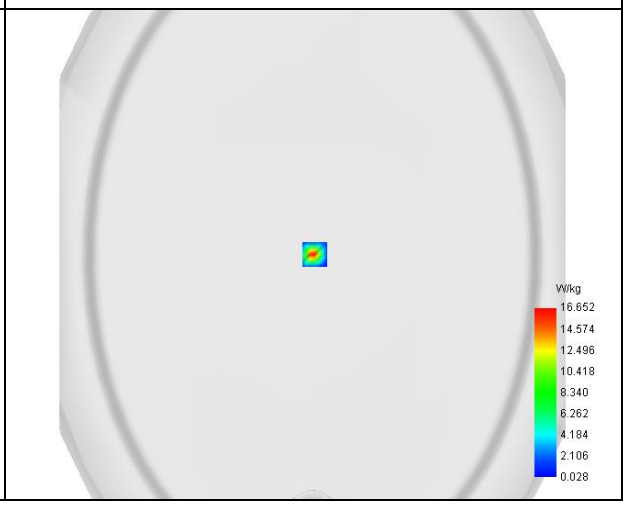


System Performance Check Data (5800MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm, dy=8mm
Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm
Date of measurement:2025-10-27

Experimental conditions.

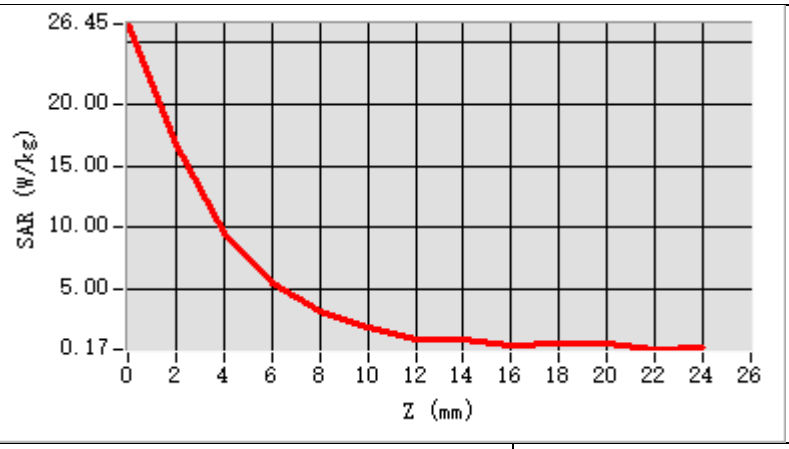
Phantom	Validation plane
Device Position	Dipole
Band	CW5800
Channels	Middle
Signal	CW
Frequency (MHz)	5800.000
Relative permittivity	36.25
Conductivity (S/m)	5.24
Probe	2225-EPGO-450
ConvF	1.62
Crest factor:	1:1

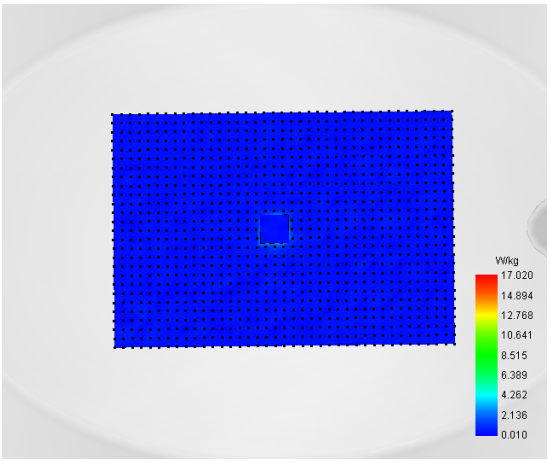
SURFACE	VOLUME SAR
	

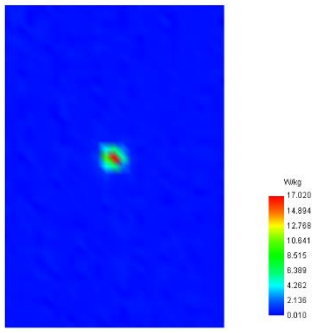
Maximum location: X=2.00, Y=0.00 ; SAR Peak: 28.77 W/kg

SAR 10g (W/Kg)	2.334
SAR 1g (W/Kg)	8.053

Z Axis Scan


26.45
20.00
15.00
10.00
5.00
0.17
SAR (W/kg)
0
2
4
6
8
10
12
14
16
18
20
22
24
26
Z (mm)


W/kg
17.020
14.894
12.768
10.641
8.515
6.389
4.262
2.136
0.010

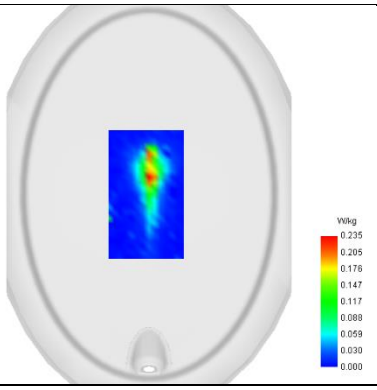
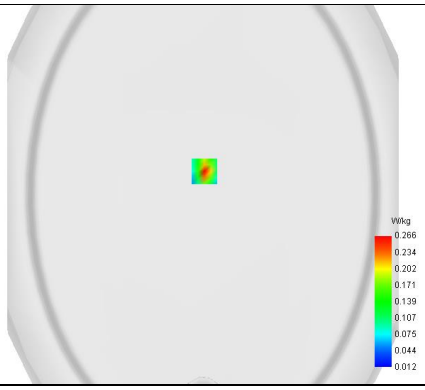
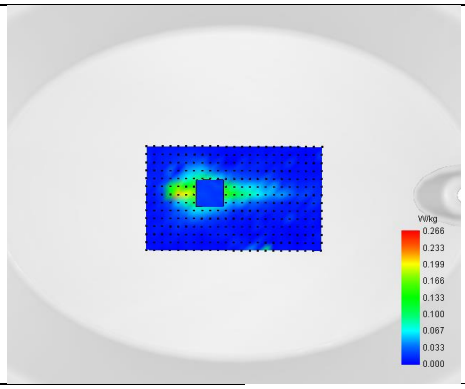
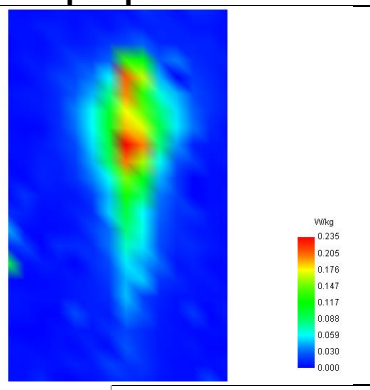
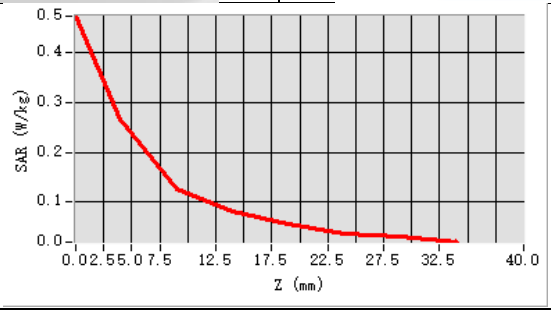

W/kg
17.020
14.894
12.768
10.641
8.515
6.389
4.262
2.136
0.010

Appendix B. SAR Test Plots

Plot 1:

Test Date	2025-10-28
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Top Side
Band	GPRS850
Signal	TDMA (GPRS)
Frequency	848.8
SAR 10g (W/Kg)	0.124
SAR 1g (W/Kg)	0.250
ConvF	1.72
Relative permittivity	42.09
Conductivity (S/m)	0.88

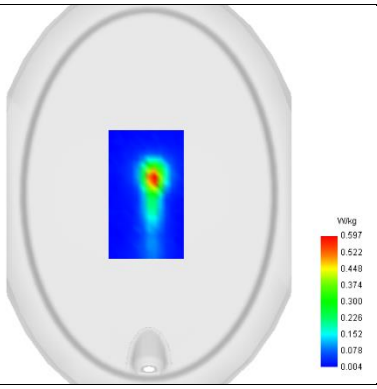
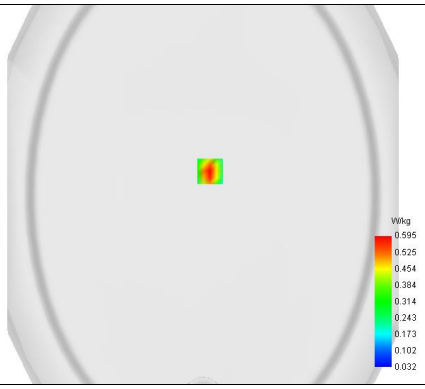
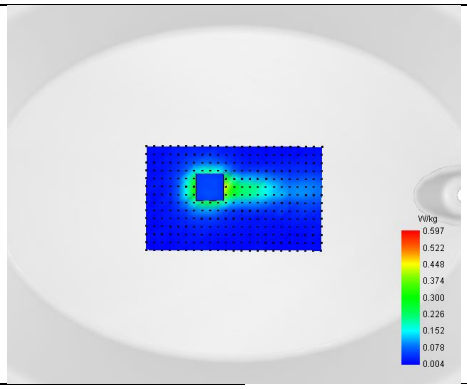
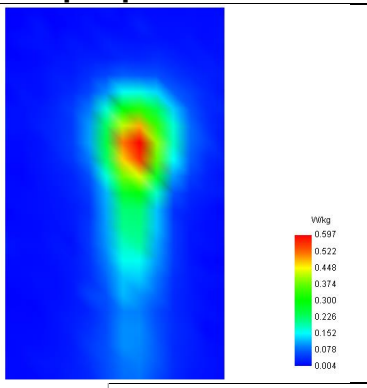
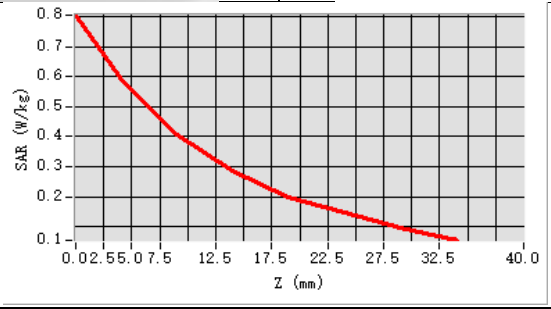
Maximum location: X=2.00, Y=29.00 ; SAR Peak: 0.47 W/kg

SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	
	

Plot 2:

Test Date	2025-10-30
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Top Side
Band	GPRS1900
Signal	TDMA (GPRS)
Frequency	1880
SAR 10g (W/Kg)	0.353
SAR 1g (W/Kg)	0.565
ConvF	2.25
Relative permittivity	40.31
Conductivity (S/m)	1.41

Maximum location: X=9.00, Y=29.00 ; SAR Peak: 0.81 W/kg

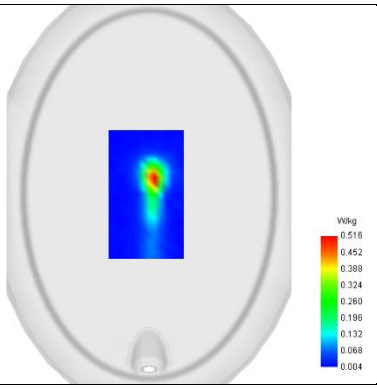
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	
	

Plot 3:

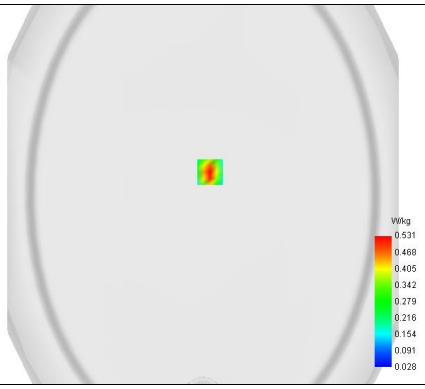
Test Date	2025-10-31
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Top Side
Band	Band 2 (1900)
Signal	HSDPA
Frequency	1907.6
SAR 10g (W/Kg)	0.305
SAR 1g (W/Kg)	0.502
ConvF	2.25
Relative permittivity	40.52
Conductivity (S/m)	1.42

Maximum location: X=9.00, Y=28.00 ; SAR Peak: 0.72 W/kg

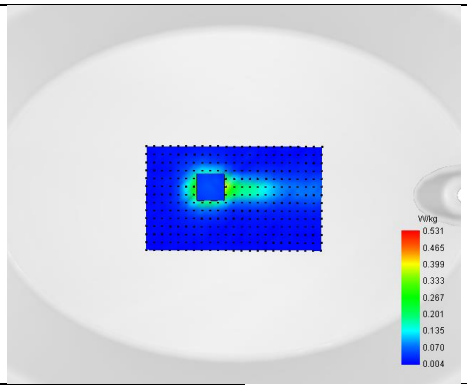
SURFACE SAR



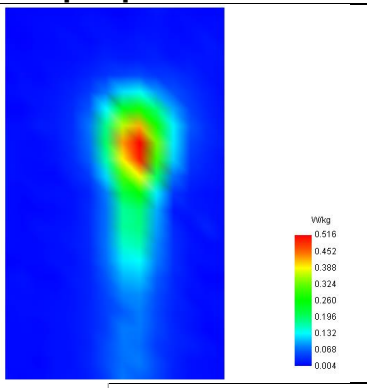
VOLUME SAR

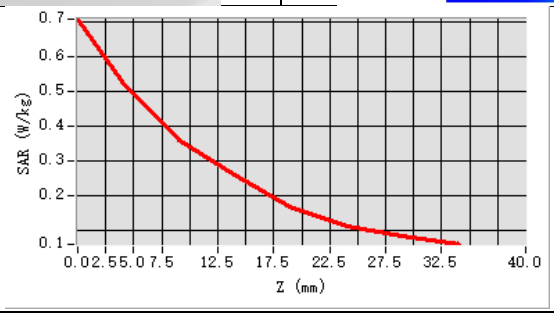


3D screen shot



Hot spot position

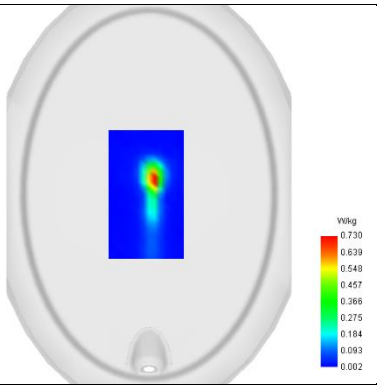
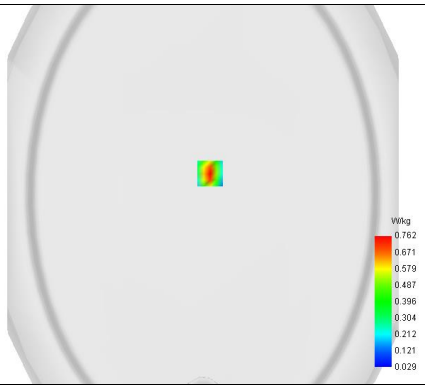
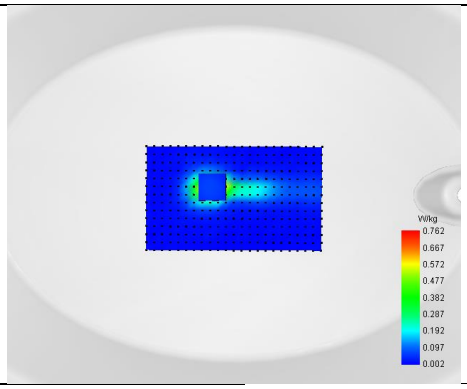
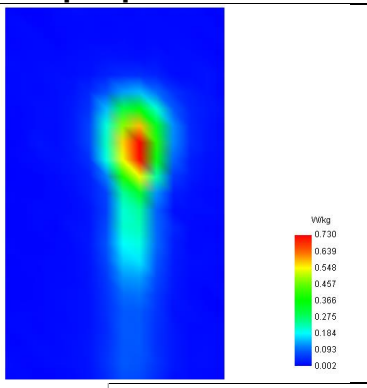
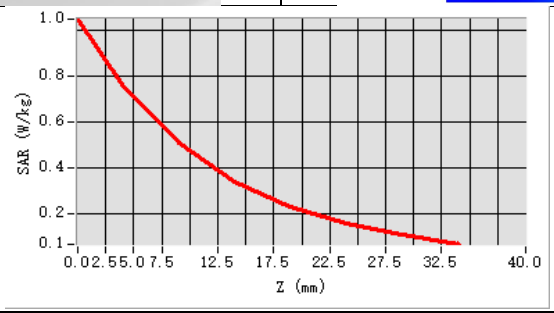




Plot 4:

Test Date	2025-10-28
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Top Side
Band	Band 5 (850)
Signal	WCDMA
Frequency	846.6
SAR 10g (W/Kg)	0.414
SAR 1g (W/Kg)	0.709
ConvF	1.72
Relative permittivity	42.40
Conductivity (S/m)	0.91

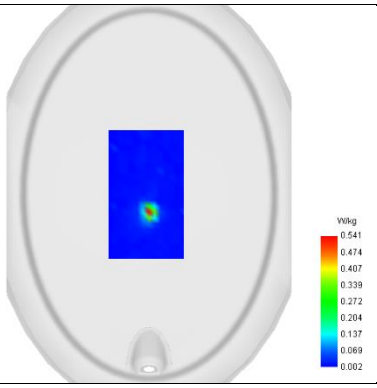
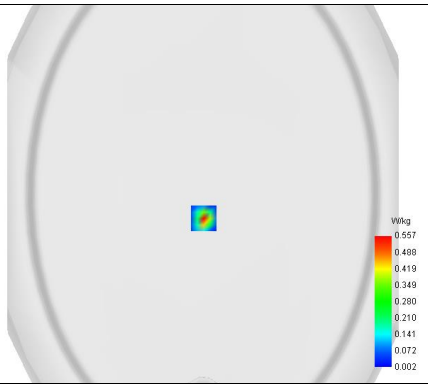
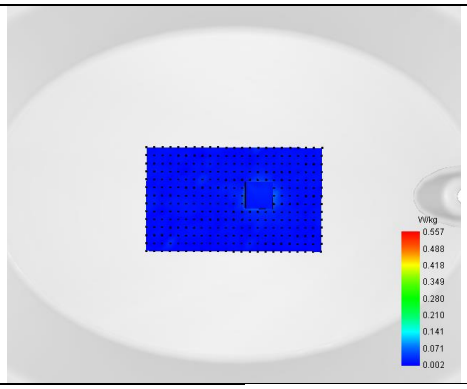
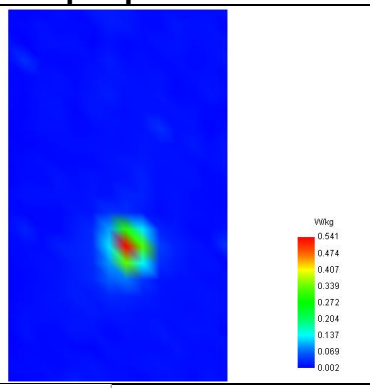
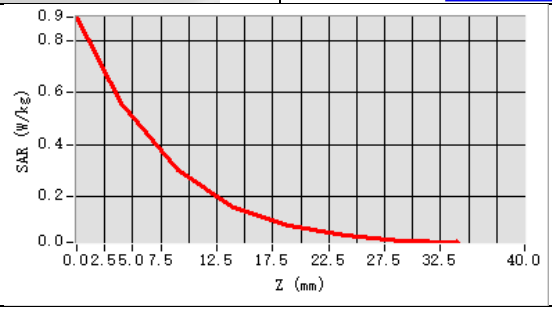
Maximum location: X=9.00, Y=26.00 ; SAR Peak: 1.05 W/kg

SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	
	

Plot 5:

Test Date	2025-10-28
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Left Side
Band	ISM
Signal	IEEE 802.11b
Frequency	2462
SAR 10g (W/Kg)	0.200
SAR 1g (W/Kg)	0.494
ConvF	2.33
Relative permittivity	40.45
Conductivity (S/m)	1.84

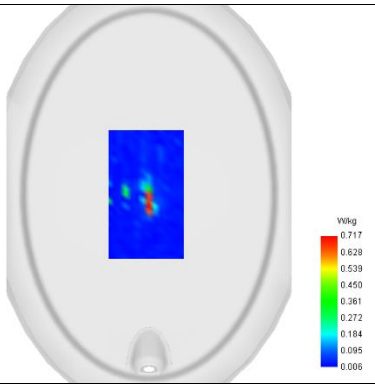
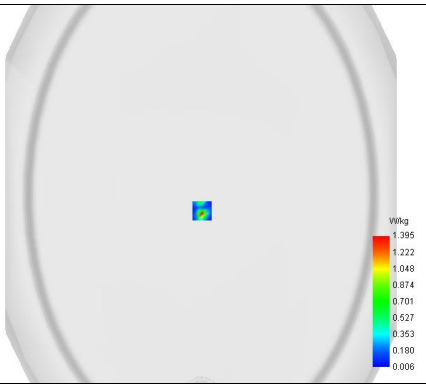
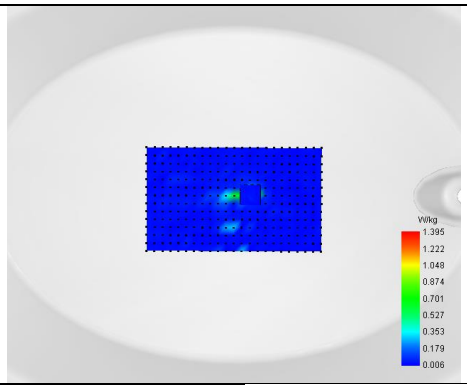
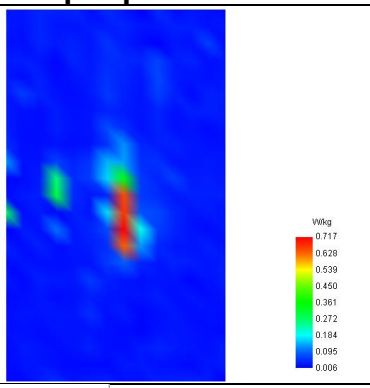
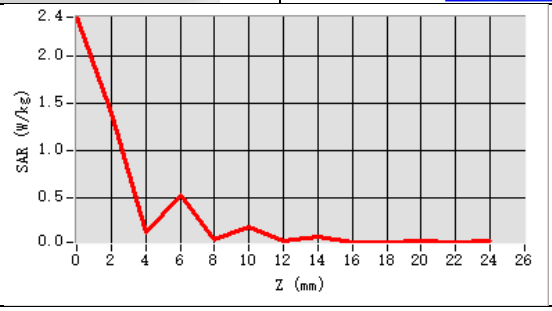
Maximum location: X=1.00, Y=-30.00 ; SAR Peak: 0.93 W/kg

SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	
	

Plot 6:

Test Date	2025-10-27
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Left Side
Band	U-NII-1
Signal	IEEE 802.11ac
Frequency	5210
SAR 10g (W/Kg)	0.200
SAR 1g (W/Kg)	0.457
ConvF	1.99
Relative permittivity	36.39
Conductivity (S/m)	4.60

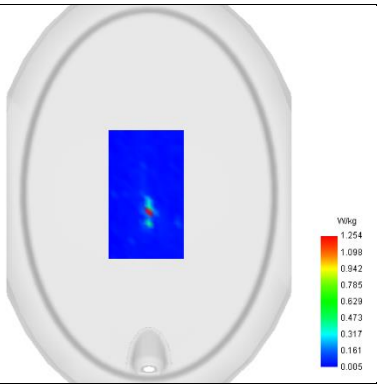
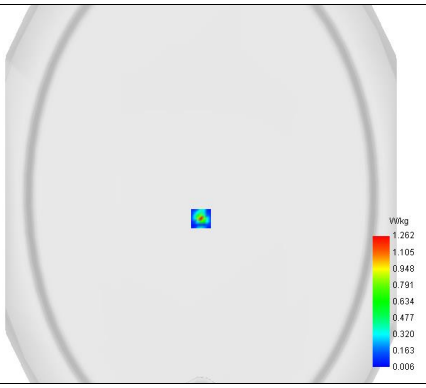
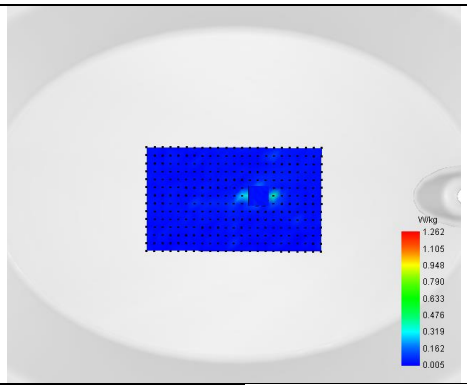
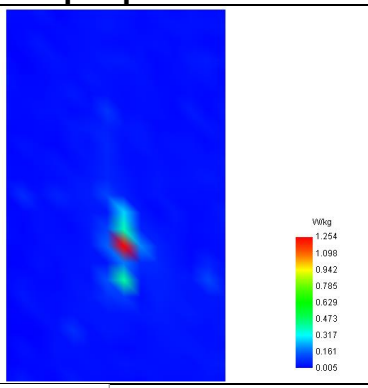
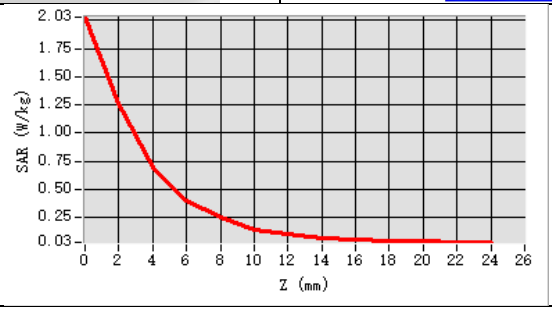
Maximum location: X=1.00, Y=-20.00 ; SAR Peak: 2.33 W/kg

SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	
	

Plot 7:

Test Date	2025-10-27
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Left Side
Band	U-NII-2a
Signal	IEEE 802.11n
Frequency	5310
SAR 10g (W/Kg)	0.137
SAR 1g (W/Kg)	0.545
ConvF	1.87
Relative permittivity	36.21
Conductivity (S/m)	4.87

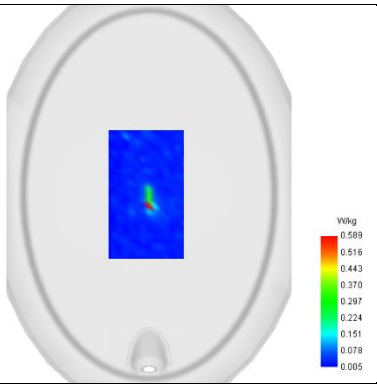
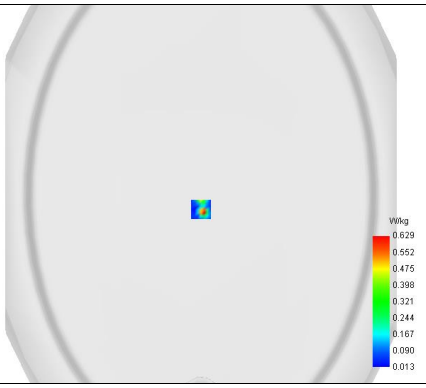
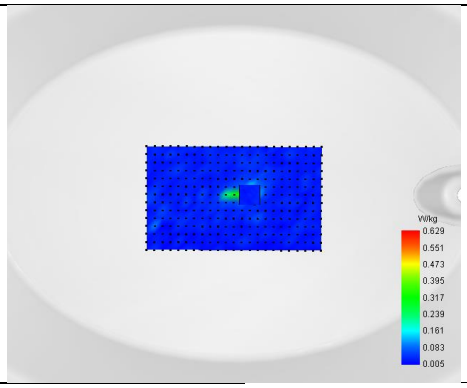
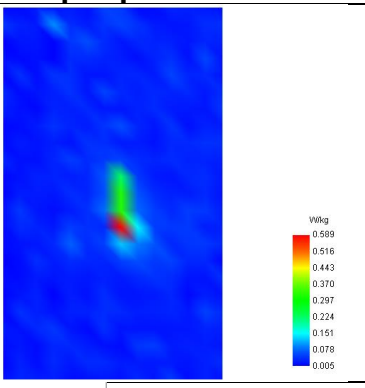
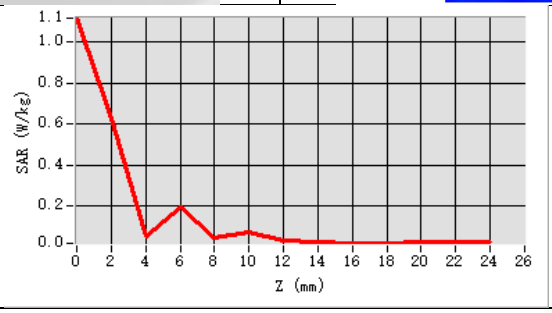
Maximum location: X=0.00, Y=-30.00 ; SAR Peak: 2.15 W/kg

SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	
	

Plot 8:

Test Date	2025-10-27
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Left Side
Band	U-NII-2
Signal	IEEE 802.11ac
Frequency	5755
SAR 10g (W/Kg)	0.072
SAR 1g (W/Kg)	0.286
ConvF	1.70
Relative permittivity	36.25
Conductivity (S/m)	5.24

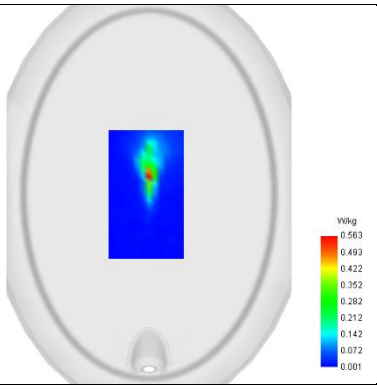
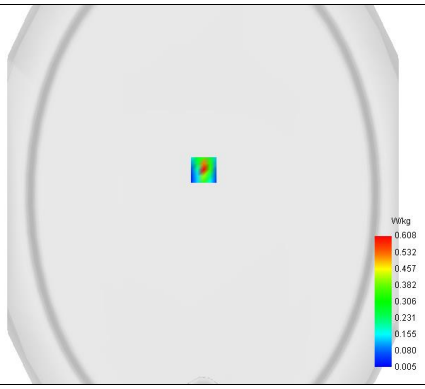
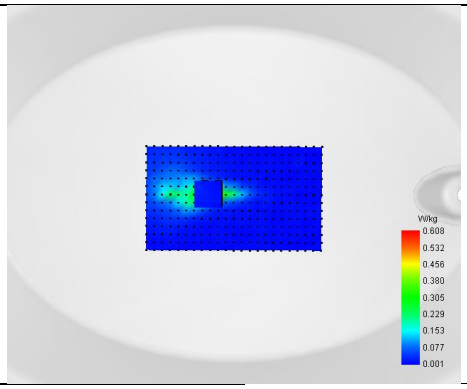
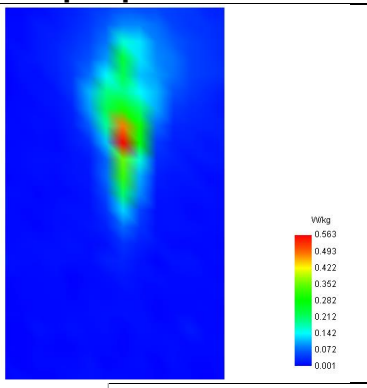
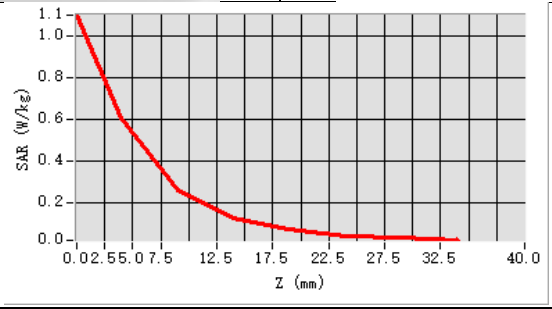
Maximum location: X=0.00, Y=-19.00 ; SAR Peak: 1.20 W/kg

SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	
	

Plot 9:

Test Date	2025-10-31
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Top Side
Band	LTE band 2
Signal	LTE FDD
Frequency	1900
SAR 10g (W/Kg)	0.221
SAR 1g (W/Kg)	0.536
ConvF	2.25
Relative permittivity	40.52
Conductivity (S/m)	1.42

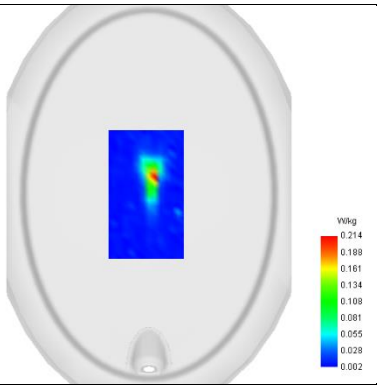
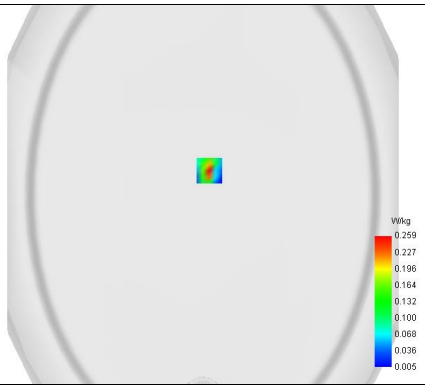
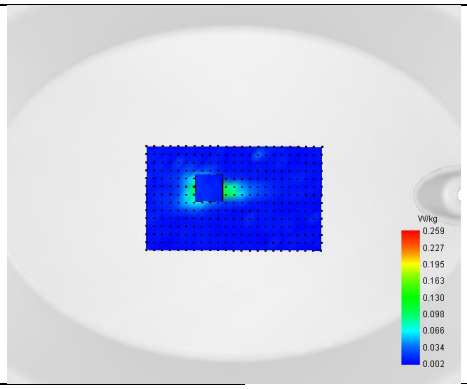
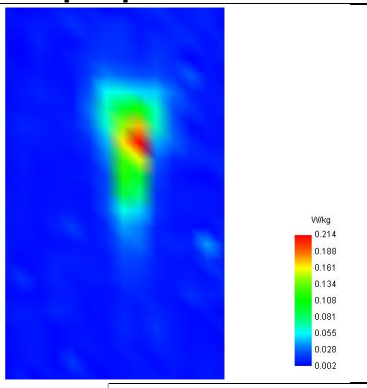
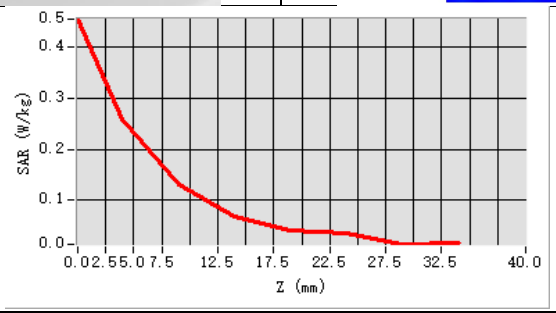
Maximum location: X=1.00, Y=31.00 ; SAR Peak: 1.10 W/kg

SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	
	

Plot 10:

Test Date	2025-10-30
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Top Side
Band	LTE band 4
Signal	LTE FDD
Frequency	1732.5
SAR 10g (W/Kg)	0.107
SAR 1g (W/Kg)	0.249
ConvF	1.95
Relative permittivity	40.31
Conductivity (S/m)	1.41

Maximum location: X=8.00, Y=30.00 ; SAR Peak: 0.48 W/kg

SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	
	

Appendix C. Probe Calibration and Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※※END OF THE REPORT※※※※※