



SAR TEST REPORT

Product Name: 4G Mobile Phone

Model Name: M10, KM0466, M10 FLIP, AGM_M10_FLIP

FCC ID: 2A3DR-M10

Issued For : AGM MOBILE LIMITED

FLAT/RM 2253 22/F HOI TAI FACTORY ESTATE TSING
YEUNG CIRCUIT TUEN MUN NT HONG KONG, CHINA

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

Room 205, Building 13, Zone B, Zhenxiong Industrial Park,
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Report Number: LGT24K264HA01

Sample Received Date: Nov. 19, 2024

Date of Test Nov. 21, 2024~ Nov. 25, 2024

Date of Issue Nov. 28, 2024

Head: 0.896 W/kg

Max. SAR (1g)

Body: 1.171 W/kg

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Revision History

Rev.	Issue Date	Contents
00	Nov. 28, 2024	Initial Issue



TEST REPORT CERTIFICATION

Applicant AGM MOBILE LIMITED

Address FLAT/RM 2253 22/F HOI TAI FACTORY ESTATE TSING
YEUNG CIRCUIT TUEN MUN NT HONG KONG, CHINA

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Product Name 4G Mobile Phone

Trademark AGM

Model Name M10, KM0466, M10 FLIP, AGM_M10_FLIP

Sample number LGT2411193-1

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

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1. General Information

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

1.1 EUT Description

Product Name	4G Mobile Phone		
Trademark	AGM		
Model Name	M10		
Series Model	KM0466, M10 FLIP, AGM_M10_FLIP		
Model Difference	All the same except for the model name		
Device Category	Portable		
Product stage	Production unit		
RF Exposure Environment	General Population / Uncontrolled		
Hardware Version	FF628-MB-V0.3		
Software Version	FF628V03		
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 13: 777 ~ 787 MHz LTE Band 17: 704 ~ 716 MHz LTE Band 26: 814 ~ 824 MHz / 824 ~ 849 MHz LTE Band 66: 1710 ~ 1780 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	0.565	1.073
	PCS 1900	0.618	1.171
	WCDMA Band II	0.795	0.860
	WCDMA Band IV	0.552	0.526
	WCDMA Band V	0.796	1.151
	LTE Band 2	0.803	1.039
	LTE Band 4	0.646	0.607
	LTE Band 5	0.786	1.167
	LTE Band 7	0.896	1.001
	LTE Band 12	0.469	0.587
	LTE Band 13	0.745	0.999
	LTE Band 17	0.549	0.342
	LTE Band 26 a	0.783	1.148
	LTE Band 26 b	0.756	0.949
	LTE Band 66	0.566	1.059
	Bluetooth ^{Note}	0.236	0.118
1-g Sum SAR		1.132	1.289



Battery	Rated Voltage:3.7V Capacity: 1150mAh
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 Class 12 WCDMA: RMC, HSDPA, HSUPA Release 6 LTE: QPSK, 16QAM Bluetooth: GFSK + $\pi/4$ DQPSK+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	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
	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 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

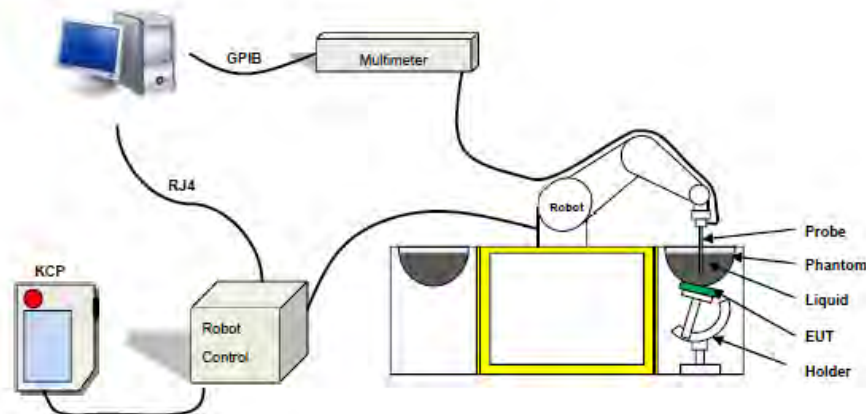
$$SAR = \frac{\sigma E^2}{\rho}$$

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 SN 04/22 EPGO364 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: 600 MHz to 6 GHz for head & body simulating liquid.
- Angle between probe axis (evaluation axis) and surface normal line: less than 30°

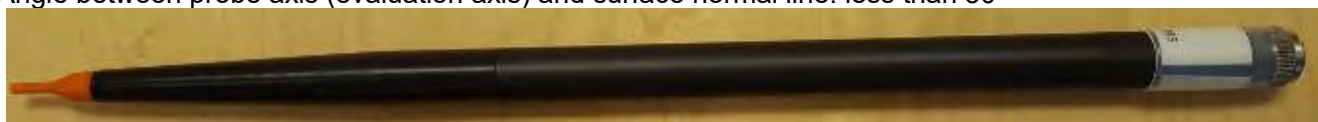


Figure 1-MVG COMOSAR Dosimetric E field Probe

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.

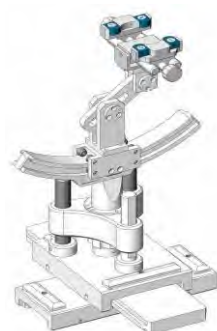


Figure-SN 06/22 SAM 148



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

Tissue Stimulant Measurement for 750MHz					
Head	Fr. (MHz)	Dielectric Parameters (±5%)		Tissue Temp [°C]	Test time
		εr 41.9 (39.805-43.995)	δ[s/m] 0.89(0.8455-0.9345)		
	707.5	43.56	0.86	20.2	Nov.21,2024
	710	43.34	0.89		
	750	43.23	0.90		
782	42.95	0.91			
Tissue Stimulant Measurement for 835MHz					
Head	Fr. (MHz)	Dielectric Parameters (±5%)		Tissue Temp [°C]	Test time
		εr 41.5 (39.425-43.575)	δ[s/m] 0.90(0.855-0.945)		
	819	43.43	0.88	20.5	Nov.22,2024
	824.2	42.78	0.90		
	826.4	42.72	0.91		
	829	42.54	0.91		
	831.5	41.89	0.92		
	835	41.63	0.92		
	836.4	40.78	0.93		
	836.5	40.39	0.93		
	836.6	40.22	0.93		
	841.5	39.82	0.94		
	844	39.62	0.94		
	846.6	39.47	0.94		
	848.8	39.40	0.94		
Tissue Stimulant Measurement for 1750MHz					
Head	Fr. (MHz)	Dielectric Parameters (±5%)		Tissue Temp [°C]	Test time
		εr 40.1 (38.095-42.105)	δ[s/m]1.37(1.3015-1.439)		
	1720	41.76	1.34	20.7	Nov.23,2024
	1732.4	40.27	1.35		
	1732.5	40.15	1.36		
	1750	39.73	1.38		
	1755	38.81	1.49		
	1770	38.50	1.40		
Tissue Stimulant Measurement for 1900MHz					
Head	Fr. (MHz)	Dielectric Parameters (±5%)		Tissue Temp [°C]	Test time
		εr40.00(38.00-42.00)	δ[s/m]1.40(1.33-1.47)		
	1850.2	41.62	1.35	20.4	Nov.24,2024
	1852.4	40.84	1.36		
	1860	40.59	1.36		
	1880	39.60	1.36		
	1900	39.28	1.37		
	1907.6	38.54	1.38		
	1909.8	38.30	1.42		
Tissue Stimulant Measurement for 2600MHz					
Head	Fr. (MHz)	Dielectric Parameters (±5%)		Tissue Temp [°C]	Test time
		εr39(37.05-40.95)	δ[s/m]1.96(1.86-2.06)		
	2510	40.53	1.90	20.1	Nov.25,2024
	2535	40.11	1.91		
	2560	39.73	1.94		
	2600	38.80	1.95		

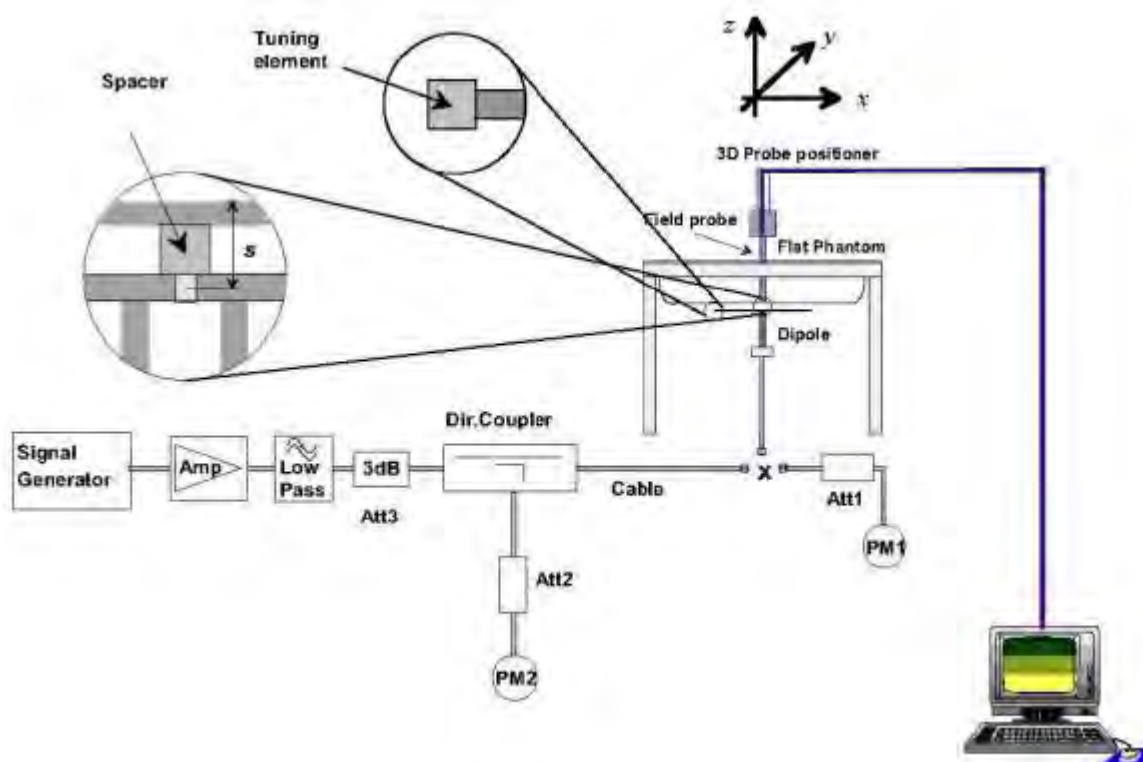


5. SAR System Validation

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)	(dBm)	(%)	(W/Kg)	(W/kg)	1g(W/kg)	(%)
Nov.21,2024	750	18	-0.91	0.512	8.11	8.27	-1.93%
Nov.21,2024	750	18	-3.64	0.570	9.03	8.27	9.19%
Nov.22,2024	835	18	-1.05	0.581	9.21	9.75	-5.54%
Nov.22,2024	835	18	-1.1	0.579	9.18	9.75	-5.85%
Nov.23,2024	1800	18	-0.97	2.362	37.44	39.06	-4.15%
Nov.23,2024	1800	18	-1.38	2.409	38.18	39.06	-2.25%
Nov.24,2024	1900	18	-1.93	2.558	40.54	40.85	-0.76%
Nov.24,2024	1900	18	-1.02	2.526	40.03	40.85	-2.01%
Nov.25,2024	2600	15	-2.27	1.698	53.70	56.58	-5.09%
Nov.25,2024	2600	15	1.59	1.742	55.07	56.58	-2.67%

Note:

1. The tolerance limit of System validation $\pm 10\%$.
2. The dipole input power (forward power) was 18dBm&15dBm.
3. The results are normalized to 1 W input power.



6. SAR Evaluation Procedures

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

The following steps are used for each test position

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

➤ Area Scan& Zoom Scan

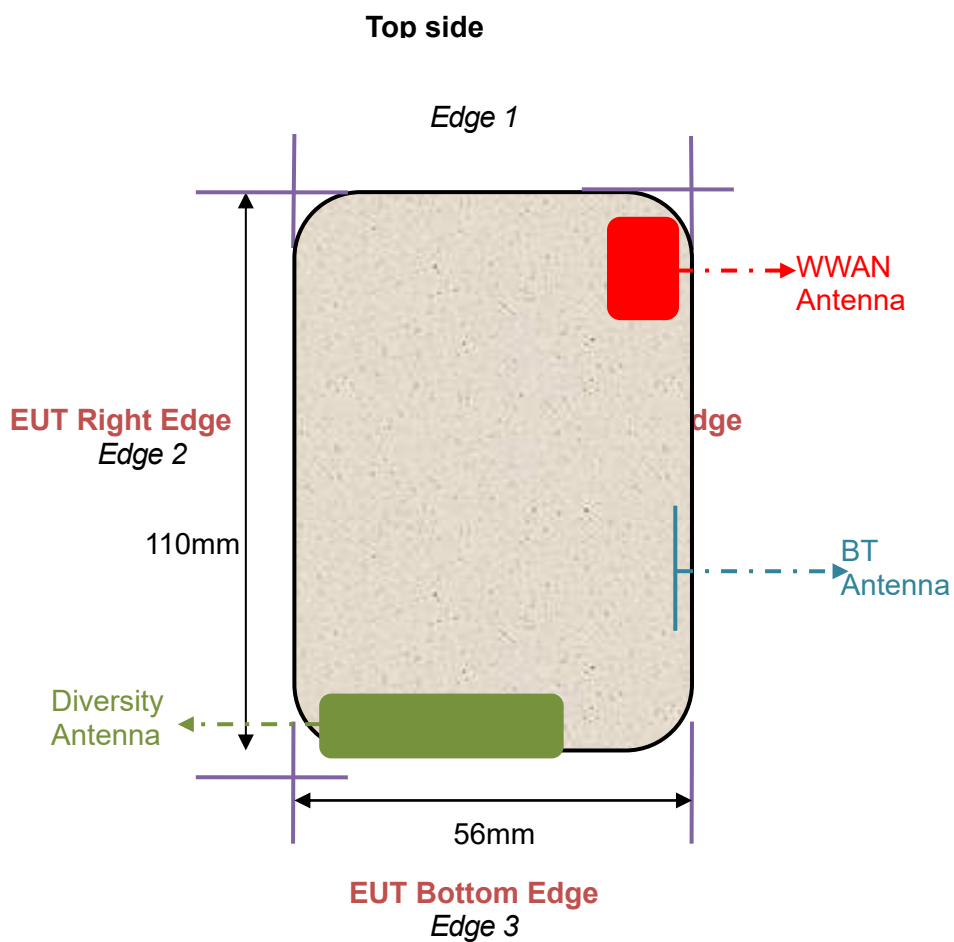
First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan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

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



7. EUT Antenna Location Sketch

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



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



8. EUT Test Position

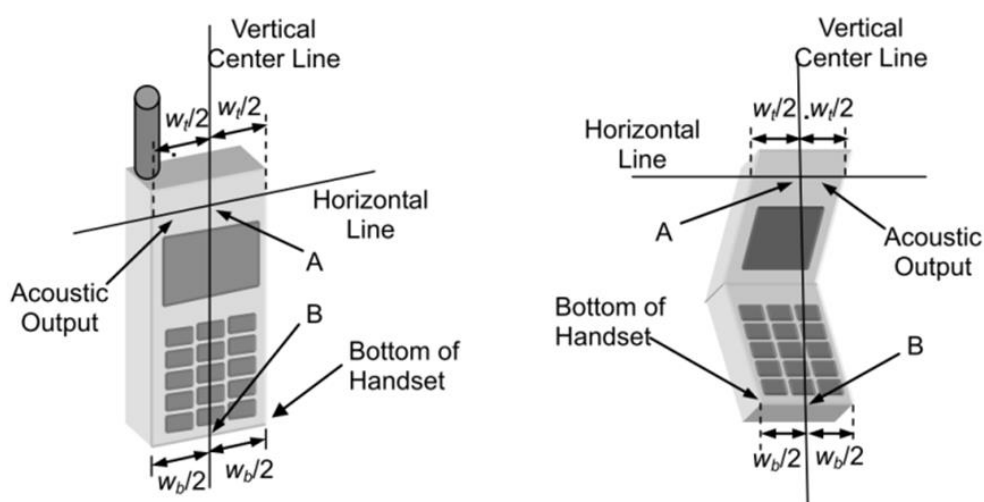
This EUT was tested in Right Cheek, Right Titled, Left Cheek, Left Titled, Front Face and Rear Face.

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.

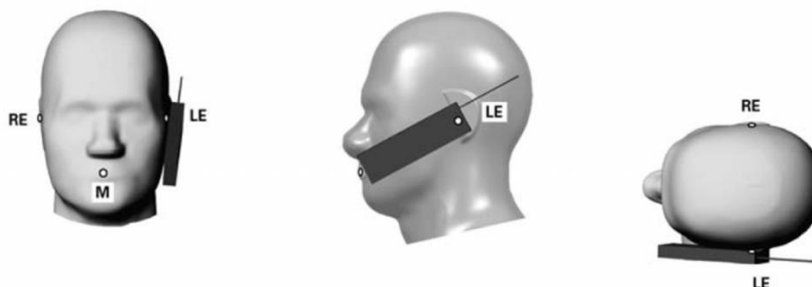
(3) The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily to the front face of the handset, especially 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





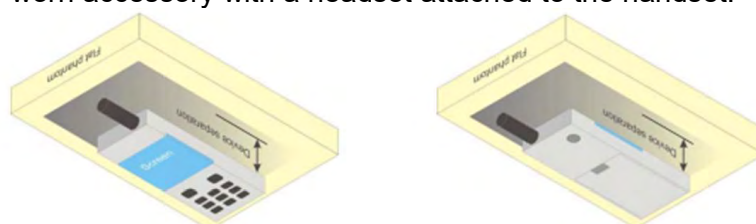
Title Position

- (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.



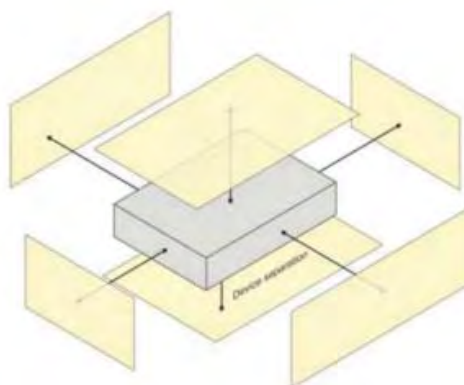
Body-worn Position Conditions:

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 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

Mode	Frequency(MHz)	Avg. Burst Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)
Maximum Power <1>				
GSM 850	824.2	32.31	-9	23.31
	836.6	32.36	-9	23.36
	848.8	31.92	-9	22.92
GPRS 850 (1 Slot)	824.2	30.06	-9	21.06
	836.6	29.65	-9	20.65
	848.8	30.25	-9	21.25
GPRS 850 (2 Slot)	824.2	28.08	-6	22.08
	836.6	27.39	-6	21.39
	848.8	27.69	-6	21.69
GPRS 850 (3 Slot)	824.2	25.99	-4.26	21.73
	836.6	25.76	-4.26	21.50
	848.8	25.61	-4.26	21.35
GPRS 850 (4 Slot)	824.2	23.38	-3	20.38
	836.6	21.55	-3	18.55
	848.8	23.03	-3	20.03
Maximum Power <2>				
GSM 850	824.2	31.14	-9	22.14
	836.6	30.86	-9	21.86
	848.8	30.20	-9	21.20
GPRS 850 (1 Slot)	824.2	29.67	-9	20.67
	836.6	29.73	-9	20.73
	848.8	29.81	-9	20.81
GPRS 850 (2 Slot)	824.2	27.47	-6	21.47
	836.6	27.40	-6	21.40
	848.8	28.05	-6	22.05
GPRS 850 (3 Slot)	824.2	25.52	-4.26	21.26
	836.6	24.89	-4.26	20.63
	848.8	25.66	-4.26	21.40
GPRS 850 (4 Slot)	824.2	22.21	-3	19.21
	836.6	22.04	-3	19.04
	848.8	22.20	-3	19.20



Mode	Frequency(MHz)	Avg. Burst Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)
Maximum Power <1>				
PCS1900	1850.2	29.22	-9	20.22
	1880	29.48	-9	20.48
	1909.8	29.52	-9	20.52
GPRS1900 (1 Slot)	1850.2	26.61	-9	17.61
	1880	26.00	-9	17.00
	1909.8	25.89	-9	16.89
GPRS1900 (2 Slot)	1850.2	24.61	-6	18.61
	1880	24.96	-6	18.96
	1909.8	25.07	-6	19.07
GPRS1900 (3 Slot)	1850.2	22.43	-4.26	18.17
	1880	22.38	-4.26	18.12
	1909.8	22.60	-4.26	18.34
GPRS1900 (4 Slot)	1850.2	22.95	-3	19.95
	1880	22.02	-3	19.02
	1909.8	22.69	-3	19.69
Maximum Power <2>				
PCS1900	1850.2	27.67	-9	18.67
	1880	28.83	-9	19.83
	1909.8	27.83	-9	18.83
GPRS1900 (1 Slot)	1850.2	26.02	-9	17.02
	1880	25.39	-9	16.39
	1909.8	25.71	-9	16.71
GPRS1900 (2 Slot)	1850.2	24.56	-6	18.56
	1880	24.85	-6	18.85
	1909.8	24.28	-6	18.28
GPRS1900 (3 Slot)	1850.2	22.41	-4.26	18.15
	1880	22.37	-4.26	18.11
	1909.8	21.99	-4.26	17.73
GPRS1900 (4 Slot)	1850.2	22.11	-3	19.11
	1880	21.60	-3	18.60
	1909.8	21.23	-3	18.23

Note 1:

The Frame Power (Source-based time-averaged Power) is scaled the maximum burst average power based on time slots. The calculated methods are show as following:

Frame Power = Max burst power (1 Up Slot) – 9 dB

Frame Power = Max burst power (2 Up Slot) – 6 dB

Frame Power = Max burst power (3 Up Slot) – 4.26 dB

Frame Power = Max burst power (4 Up Slot) – 3 dB

Note 2:

SAR is not required for GPRS (1 Slot) Mode because its output power is less than of Voice Mode



WCDMA

Mode	Frequency (MHz)	Avg. Burst Power (dBm)
WCDMA 1900 RMC	1852.4	22.62
	1880	22.68
	1907.6	22.65
HSDPA Subtest 1	1852.4	23.33
	1880	22.13
	1907.6	22.28
HSDPA Subtest 2	1852.4	22.43
	1880	22.31
	1907.6	21.70
HSDPA Subtest 3	1852.4	20.60
	1880	21.22
	1907.6	20.31
HSDPA Subtest 4	1852.4	20.74
	1880	20.28
	1907.6	20.70
HSUPA Subtest 1	1852.4	18.68
	1880	18.78
	1907.6	18.73
HSUPA Subtest 2	1852.4	19.32
	1880	19.02
	1907.6	19.10
HSUPA Subtest 3	1852.4	19.61
	1880	19.62
	1907.6	19.34
HSUPA Subtest 4	1852.4	19.74
	1880	19.84
	1907.6	19.51
HSUPA Subtest 5	1852.4	21.13
	1880	21.74
	1907.6	20.70



Mode	Frequency (MHz)	Avg. Burst Power (dBm)
WCDMA 1700 RMC	1712.4	22.85
	1732.4	22.72
	1752.6	22.63
HSDPA Subtest 1	1712.4	19.88
	1732.4	20.61
	1752.6	19.56
HSDPA Subtest 2	1712.4	20.03
	1732.4	20.32
	1752.6	20.32
HSDPA Subtest 3	1712.4	20.41
	1732.4	20.32
	1752.6	20.05
HSDPA Subtest 4	1712.4	20.22
	1732.4	20.87
	1752.6	19.67
HSUPA Subtest 1	1712.4	19.98
	1732.4	20.33
	1752.6	20.54
HSUPA Subtest 2	1712.4	19.83
	1732.4	20.05
	1752.6	19.47
HSUPA Subtest 3	1712.4	20.44
	1732.4	20.73
	1752.6	20.55
HSUPA Subtest 4	1712.4	20.68
	1732.4	20.57
	1752.6	20.11
HSUPA Subtest 5	1712.4	20.38
	1732.4	20.63
	1752.6	20.08



Mode	Frequency (MHz)	Avg. Burst Power (dBm)
WCDMA 850 RMC	826.4	23.02
	836.4	23.15
	846.6	23.28
HSDPA Subtest 1	826.4	23.93
	836.4	23.58
	846.6	23.27
HSDPA Subtest 2	826.4	22.92
	836.4	22.69
	846.6	22.51
HSDPA Subtest 3	826.4	21.22
	836.4	21.60
	846.6	20.71
HSDPA Subtest 4	826.4	21.27
	836.4	20.94
	846.6	20.93
HSUPA Subtest 1	826.4	20.13
	836.4	20.46
	846.6	19.88
HSUPA Subtest 2	826.4	20.74
	836.4	19.96
	846.6	20.24
HSUPA Subtest 3	826.4	20.95
	836.4	20.28
	846.6	20.44
HSUPA Subtest 4	826.4	19.94
	836.4	21.00
	846.6	20.15
HSUPA Subtest 5	826.4	23.75
	836.4	24.51
	846.6	22.95



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	$0 \leq CM \leq 3.5$	$\text{MAX}(CM-1,0)$
Note: CM=1 for $\beta_{cd}/\beta_{cd}=12/15$, $\beta_{hs}/\beta_{cd}=24/15$.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

Modulation	Channel	Frequency(MHz)	Peak Power (dBm)
GFSK	0	2402	5.89
	39	2441	6.21
	78	2480	6.54
$\pi/4$ -DQPSK	0	2402	6.22
	39	2441	6.78
	78	2480	7.32
8-DPSK	0	2402	6.42
	39	2441	6.81
	78	2480	7.50

Note:

1. Calculation Value = $[(\text{max. power of channel, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$.
Fox example: $5.62/5 \cdot \sqrt{2.480} = 1.771 \leq 3.0$



LTE Conducted Power

General Note:

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



Conducted Power of LTE Band 2(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					18607	18900	19193
1.4MHz	QPSK	1	0	0	22.01	22.29	22.27
			3	0	21.97	22.02	22.25
			5	0	21.42	21.78	21.73
		3	0	0	21.90	22.05	21.53
			2	0	22.45	22.41	22.46
			3	0	21.89	21.97	22.05
		6	0	1	21.07	21.75	21.86
	16QAM	1	0	1	21.11	21.45	21.54
			3	1	21.30	22.39	21.88
			5	1	20.98	22.15	21.65
		3	0	1	21.58	21.23	21.16
			2	1	21.77	21.06	21.12
			3	1	21.21	21.53	21.00
		6	0	2	20.40	20.90	20.58
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					18615	18900	19185
3MHz	QPSK	1	0	0	22.08	21.49	22.18
			7	0	22.30	22.24	22.00
			14	0	21.59	22.02	21.57
		8	0	1	21.70	21.90	21.05
			4	1	21.51	21.89	21.64
			7	1	21.37	21.86	21.22
		15	0	1	21.02	21.42	21.56
	16QAM	1	0	1	21.51	21.21	21.49
			7	1	21.30	21.21	21.44
			14	1	20.79	20.99	21.72
		8	0	2	20.88	20.63	20.97
			4	2	20.38	21.21	20.84
			7	2	20.78	20.56	20.86
		15	0	2	20.25	20.59	20.13



Conducted Power of LTE Band 2(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					18625	18900	19175
5MHz	QPSK	1	0	0	21.90	22.88	22.35
			13	0	21.66	21.72	21.80
			24	0	22.23	22.58	21.91
		12	0	1	21.32	21.25	21.84
			6	1	21.68	21.56	21.23
			13	1	21.26	21.63	21.29
		25	0	1	21.90	21.25	21.41
	16QAM	1	0	1	20.83	20.94	21.34
			13	1	20.64	21.49	21.06
			24	1	21.04	20.74	21.26
		12	0	2	20.36	20.85	20.83
			6	2	20.26	21.07	20.10
			13	2	21.18	20.71	20.49
		25	0	2	21.00	20.78	20.71
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					18650	18900	19150
10MHz	QPSK	1	0	0	22.51	22.12	22.18
			25	0	22.38	22.43	21.74
			49	0	21.92	21.72	22.09
		25	0	1	21.75	21.83	21.31
			13	1	20.99	21.22	21.23
			25	1	21.60	21.94	21.58
		50	0	1	21.07	21.96	21.47
	16QAM	1	0	1	21.02	21.58	21.31
			25	1	21.21	21.40	20.67
			49	1	21.34	20.91	21.08
		25	0	2	20.95	20.74	20.44
			13	2	20.49	20.39	20.94
			25	2	20.15	20.21	21.13
		50	0	2	20.97	21.33	20.55



Conducted Power of LTE Band 2(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					18675	18900	19125
15MHz	QPSK	1	0	0	22.26	22.24	21.73
			38	0	21.59	21.59	22.16
			74	0	21.88	21.68	21.60
		36	0	1	21.86	21.09	20.97
			18	1	21.75	21.75	21.17
			39	1	21.53	21.66	21.48
		75	0	1	21.73	20.96	21.63
	16QAM	1	0	1	21.28	21.09	21.36
			38	1	21.57	21.32	21.10
			74	1	21.46	21.18	21.53
		36	0	2	21.25	21.78	21.64
			18	2	21.69	21.01	21.25
			39	2	21.59	21.42	21.19
		75	0	2	20.13	20.45	20.80
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					18700	18900	19100
20MHz	QPSK	1	0	0	22.62	22.55	22.46
			50	0	21.67	21.60	21.61
			99	0	21.65	21.75	22.06
		50	0	1	21.04	21.22	21.64
			25	1	21.28	21.57	21.29
			50	1	21.23	20.80	21.07
		100	0	1	21.42	21.34	21.42
	16QAM	1	0	1	21.71	21.36	21.19
			50	1	21.74	21.75	21.29
			99	1	21.45	21.54	21.56
		50	0	2	20.75	20.22	20.10
			25	2	20.26	19.98	20.57
			50	2	20.72	20.87	20.67
		100	0	2	20.52	20.88	20.44



Conducted Power of LTE Band 4(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					19957	20175	20393
1.4MHz	QPSK	1	0	0	22.30	22.24	21.86
			3	0	22.35	22.44	21.46
			5	0	21.96	22.36	21.54
		3	0	0	22.24	21.78	21.63
			2	0	22.37	22.03	21.99
			3	0	22.30	22.60	21.76
		6	0	1	21.49	21.32	21.49
	16QAM	1	0	1	21.71	21.10	21.43
			3	1	22.67	21.02	21.39
			5	1	22.39	21.43	21.59
		3	0	1	21.53	21.91	21.02
			2	1	21.11	21.26	21.46
			3	1	21.61	21.58	20.93
		6	0	2	20.68	20.83	20.17
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					19965	20175	20385
3MHz	QPSK	1	0	0	21.71	21.34	21.29
			7	0	22.13	21.87	21.94
			14	0	22.18	21.32	22.13
		8	0	1	21.79	21.01	20.93
			4	1	20.93	21.28	20.75
			7	1	21.67	21.74	21.62
		15	0	1	20.97	21.16	21.59
	16QAM	1	0	1	21.84	21.12	21.28
			7	1	20.99	21.42	21.81
			14	1	21.55	21.55	21.53
		8	0	2	20.35	20.93	20.27
			4	2	20.72	20.77	20.49
			7	2	20.80	20.63	20.81
		15	0	2	20.65	20.24	19.91



Conducted Power of LTE Band 4(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					19975	20175	20375
5MHz	QPSK	1	0	0	22.96	22.81	22.76
			13	0	22.55	22.28	22.56
			24	0	22.11	22.33	22.76
		12	0	1	21.74	21.33	21.59
			6	1	21.88	21.76	21.57
			13	1	21.20	21.44	21.65
		25	0	1	21.68	21.60	22.03
	16QAM	1	0	1	21.33	21.29	21.59
			13	1	21.04	21.75	21.01
			24	1	20.63	21.36	21.10
		12	0	2	20.91	20.27	20.73
			6	2	20.91	20.56	20.38
			13	2	20.57	20.25	20.56
		25	0	2	20.94	20.49	21.26
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20000	20175	20350
10MHz	QPSK	1	0	0	22.58	22.46	21.80
			25	0	22.05	21.85	21.67
			49	0	22.48	22.21	21.87
		25	0	1	22.20	22.14	21.56
			13	1	21.49	21.90	21.30
			25	1	22.15	21.56	20.82
		50	0	1	22.06	21.21	21.19
	16QAM	1	0	1	21.20	21.08	21.51
			25	1	21.80	21.21	21.89
			49	1	22.02	20.78	21.19
		25	0	2	21.17	20.62	20.20
			13	2	20.79	20.78	20.49
			25	2	20.33	20.34	20.17
		50	0	2	20.94	20.26	20.59



Conducted Power of LTE Band 4(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20025	20175	20325
15MHz	QPSK	1	0	0	21.86	21.70	21.65
			38	0	22.27	22.22	21.48
			74	0	22.17	21.44	21.47
		36	0	1	21.71	20.94	21.18
			18	1	21.24	20.92	21.63
			39	1	21.27	20.86	21.18
		75	0	1	21.43	21.40	21.28
	16QAM	1	0	1	21.11	21.07	21.72
			38	1	20.90	21.92	21.45
			74	1	21.63	21.38	21.59
		36	0	2	22.05	20.90	21.62
			18	2	21.86	21.53	21.14
			39	2	21.63	20.91	21.73
		75	0	2	20.38	20.89	20.41
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20050	20175	20300
20MHz	QPSK	1	0	0	22.84	22.78	22.82
			50	0	22.69	21.98	22.18
			99	0	22.16	21.40	22.09
		50	0	1	21.52	21.88	21.75
			25	1	21.94	20.88	20.91
			50	1	21.73	21.19	21.62
		100	0	1	21.68	21.37	21.56
	16QAM	1	0	1	21.41	21.90	20.68
			50	1	21.91	22.11	20.49
			99	1	21.67	22.28	21.16
		50	0	2	20.76	20.74	21.20
			25	2	20.76	20.41	20.27
			50	2	20.44	20.84	20.75
		100	0	2	20.70	20.15	20.22



Conducted Power of LTE Band 5(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20407	20525	20643
1.4MHz	QPSK	1	0	0	22.07	22.21	21.30
			3	0	22.30	22.18	22.03
			5	0	21.96	21.64	21.49
		3	0	0	22.10	21.58	21.84
			2	0	21.89	22.54	21.77
			3	0	21.93	22.60	21.29
		6	0	1	22.22	21.54	21.29
	16QAM	1	0	1	21.93	21.61	21.64
			3	1	22.06	20.94	21.85
			5	1	21.76	21.73	21.90
		3	0	1	21.90	21.65	21.45
			2	1	21.98	21.96	21.36
			3	1	21.69	21.50	20.80
		6	0	2	21.03	20.76	20.95
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20415	20525	20635
3MHz	QPSK	1	0	0	21.80	21.56	22.00
			7	0	22.35	21.92	21.96
			14	0	21.97	22.08	21.44
		8	0	1	21.68	21.12	21.34
			4	1	21.82	21.00	21.69
			7	1	21.56	21.41	20.84
		15	0	1	21.41	21.68	21.36
	16QAM	1	0	1	22.11	21.34	22.23
			7	1	22.09	21.09	21.62
			14	1	21.64	21.22	22.03
		8	0	2	21.43	20.92	20.42
			4	2	21.25	20.53	20.83
			7	2	21.43	21.18	20.55
		15	0	2	20.44	20.82	20.44



Conducted Power of LTE Band 5(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20425	20525	20625
5MHz	QPSK	1	0	0	22.50	22.37	21.79
			13	0	22.25	22.56	22.20
			24	0	23.05	22.85	22.83
		12	0	1	21.37	21.47	21.62
			6	1	21.29	21.30	21.82
			13	1	21.83	22.12	21.92
		25	0	1	21.61	21.86	21.46
	16QAM	1	0	1	20.89	20.99	21.14
			13	1	20.69	21.16	21.76
			24	1	21.15	21.71	21.03
		12	0	2	21.22	20.41	20.98
			6	2	20.59	20.89	20.20
			13	2	20.55	20.87	20.78
		25	0	2	20.54	21.33	20.55
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20450	20525	20600
10MHz	QPSK	1	0	0	22.72	22.74	22.88
			25	0	21.97	22.19	22.01
			49	0	21.76	21.73	21.82
		25	0	1	21.35	21.49	21.74
			13	1	22.11	22.01	21.11
			25	1	21.94	21.81	21.53
		50	0	1	21.41	21.94	22.00
	16QAM	1	0	1	21.32	20.61	21.14
			25	1	21.59	21.51	21.89
			49	1	21.10	21.40	21.52
		25	0	2	20.21	21.17	21.10
			13	2	20.40	20.75	21.07
			25	2	21.17	21.36	21.20
		50	0	2	21.00	20.71	21.04



Conducted Power of LTE Band 7 (dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20775	21100	21425
5MHz	QPSK	1	0	0	21.21	20.76	21.34
			12	0	20.82	20.54	21.37
			24	0	21.30	20.75	21.28
		12	0	1	20.72	20.15	20.24
			6	1	20.17	20.69	20.97
			13	1	20.71	20.87	21.11
		25	0	1	20.80	20.77	20.83
	16QAM	1	0	1	20.34	20.82	20.43
			12	1	19.90	21.12	20.99
			24	1	19.93	20.70	21.04
		12	0	2	20.09	19.19	19.90
			6	2	19.98	19.42	20.17
			13	2	19.53	19.88	20.15
		25	0	2	20.27	19.56	20.13
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20800	21100	21400
10MHz	QPSK	1	0	0	21.09	20.95	21.58
			24	0	21.22	21.06	21.05
			49	0	21.53	20.94	21.93
		25	0	1	20.34	20.43	20.43
			12	1	20.58	20.58	20.51
			25	1	20.89	20.82	20.80
		50	0	1	20.26	20.89	20.57
	16QAM	1	0	1	20.68	20.38	20.90
			24	1	20.80	20.70	21.08
			49	1	20.84	20.38	21.12
		25	0	2	19.51	19.78	20.18
			12	2	19.46	20.18	20.06
			25	2	19.49	19.89	20.30
		50	0	2	19.62	19.35	20.32



Conducted Power of LTE Band 7 (dBm)

Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20825	21100	21375
15MHz	QPSK	1	0	0	20.97	20.82	20.88
			37	0	20.85	21.34	21.26
			74	0	20.76	20.70	20.86
		37	0	1	21.18	20.59	20.67
			16	1	20.47	20.25	21.02
			35	1	21.19	20.49	20.65
		75	0	1	21.05	20.10	21.01
	16QAM	1	0	1	21.19	21.66	21.04
			37	1	21.31	21.08	21.24
			74	1	21.49	21.66	21.91
		37	0	2	21.05	20.97	20.53
			16	2	20.87	20.30	21.03
			35	2	20.45	20.41	20.61
		75	0	2	19.74	19.96	20.25
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20850	21100	21350
20MHz	QPSK	1	0	0	22.16	22.10	22.08
			49	0	21.53	21.31	21.86
			99	0	21.98	21.60	21.45
		50	0	1	21.24	20.98	20.81
			25	1	20.84	20.84	21.13
			49	1	20.75	20.40	21.10
		100	0	1	20.57	20.73	21.08
	16QAM	1	0	1	21.01	21.30	21.14
			49	1	20.76	21.33	21.26
			99	1	22.61	22.52	22.18
		50	0	2	20.23	19.52	20.25
			25	2	19.58	20.18	20.53
			49	2	20.21	19.42	20.42
		100	0	2	20.37	20.23	19.95



Conducted Power of LTE Band 12(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					23017	23095	23173
1.4MHz	QPSK	1	0	0	22.27	21.74	22.45
			3	0	20.63	21.57	21.82
			5	0	21.98	21.71	22.14
		3	0	0	22.40	22.39	22.41
			2	0	21.88	21.86	22.61
			3	0	22.36	22.58	22.60
		6	0	1	21.72	21.96	21.53
	16QAM	1	0	1	21.76	21.61	21.67
			3	1	21.69	21.89	22.54
			5	1	21.92	22.04	21.85
		3	0	1	21.75	22.56	21.43
			2	1	21.85	22.09	20.87
			3	1	21.31	21.95	21.12
		6	0	2	21.34	20.98	20.18
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					23025	23095	23165
3MHz	QPSK	1	0	0	22.29	21.77	21.65
			7	0	22.23	21.85	21.74
			14	0	21.82	22.38	22.52
		8	0	1	21.38	21.51	21.84
			4	1	21.21	21.78	21.87
			7	1	22.04	22.06	21.63
		15	0	1	21.19	22.22	21.13
	16QAM	1	0	1	22.01	21.45	21.55
			7	1	21.20	22.15	21.70
			14	1	21.85	21.99	22.29
		8	0	2	21.22	20.90	20.73
			4	2	21.47	20.87	20.97
			7	2	20.86	21.20	20.25
		15	0	2	21.05	21.06	20.43



Conducted Power of LTE Band 12(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					23035	23095	23155
5MHz	QPSK	1	0	0	22.30	22.01	22.19
			13	0	23.05	22.95	22.79
			24	0	22.80	22.70	22.40
		12	0	1	22.07	21.97	21.84
			6	1	21.94	21.37	21.04
			13	1	22.04	21.78	21.32
		25	0	1	21.76	21.97	21.84
	16QAM	1	0	1	20.66	21.47	21.48
			13	1	20.93	22.18	20.92
			24	1	20.66	21.59	21.42
		12	0	2	21.19	20.43	21.32
			6	2	21.09	20.37	21.50
			13	2	20.79	20.72	20.74
		25	0	2	21.08	21.18	20.51
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					23060	23095	23130
10MHz	QPSK	1	0	0	21.85	22.01	22.08
			25	0	21.74	20.50	21.76
			49	0	20.90	21.18	20.67
		25	0	1	20.95	20.81	21.18
			13	1	20.75	21.05	21.10
			25	1	20.32	21.55	20.88
		50	0	1	20.78	21.12	20.98
	16QAM	1	0	1	21.70	21.85	22.21
			25	1	22.03	21.43	22.10
			49	1	21.23	21.54	21.99
		25	0	2	21.33	21.60	21.57
			13	2	21.07	22.17	21.94
			25	2	21.85	22.41	22.48
		50	0	2	22.20	22.05	22.03



Conducted Power of LTE Band 13(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					23205	23230	23255
5MHz	QPSK	1	0	0	22.48	22.53	21.98
			13	0	22.95	22.79	22.76
			24	0	22.33	22.05	22.43
		12	0	1	21.71	21.61	22.03
			6	1	21.51	21.90	21.45
			13	1	21.27	22.11	22.07
		25	0	1	21.82	21.57	21.54
	16QAM	1	0	1	20.63	21.46	21.36
			13	1	20.85	21.63	21.56
			24	1	21.52	21.11	21.55
		12	0	2	20.12	20.79	21.12
			6	2	20.96	20.51	20.73
			13	2	20.98	20.56	21.15
		25	0	2	20.87	20.87	20.34
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel		
					23230		
10MHz	QPSK	1	0	0	22.75		
			25	0	22.24		
			49	0	22.18		
		25	0	1	22.17		
			13	1	22.13		
			25	1	22.04		
		50	0	1	22.04		
	16QAM	1	0	1	21.65		
			25	1	21.23		
			49	1	21.72		
		25	0	2	21.17		
			13	2	21.10		
			25	2	20.98		
		50	0	2	20.78		



Conducted Power of LTE Band 17(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					23755	23790	23825
5MHz	QPSK	1	0	0	21.75	21.78	22.01
			13	0	22.97	22.95	23.02
			24	0	22.08	21.94	22.31
		12	0	1	21.74	21.91	22.03
			6	1	21.49	22.32	21.15
			13	1	22.54	21.14	21.65
		25	0	1	21.59	21.66	21.55
	16QAM	1	0	1	21.16	21.98	21.18
			13	1	20.81	20.97	21.41
			24	1	21.44	20.75	21.47
		12	0	2	20.36	20.51	20.72
			6	2	20.89	20.84	21.27
			13	2	20.74	21.18	20.67
		25	0	2	20.03	20.60	20.93
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					23780	23790	23800
10MHz	QPSK	1	0	0	22.56	22.75	22.69
			25	0	21.52	21.70	22.47
			49	0	21.85	21.71	21.67
		25	0	1	21.63	22.06	22.18
			13	1	21.98	21.61	21.92
			25	1	21.85	21.59	21.77
		50	0	1	21.47	21.86	21.72
	16QAM	1	0	1	20.60	20.77	22.49
			25	1	21.92	20.55	22.16
			49	1	21.58	21.13	22.17
		25	0	2	20.22	20.94	21.36
			13	2	20.78	20.80	21.38
			25	2	21.24	21.30	20.41
		50	0	2	20.65	21.15	21.19



Conducted Power of LTE Band 26A(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					26797	26915	27033
1.4MHz	QPSK	1	0	0	21.70	22.38	22.57
			2	0	22.28	22.36	21.57
			5	0	22.07	22.09	21.89
		3	0	0	22.43	21.87	21.71
			1	0	22.50	22.59	22.21
			3	0	21.74	22.06	21.78
		6	0	1	21.53	21.25	21.87
	16QAM	1	0	1	21.39	21.83	21.74
			2	1	21.40	22.50	22.60
			5	1	21.62	22.42	21.74
		3	0	1	21.98	21.53	21.15
			1	1	21.26	21.68	21.56
			3	1	21.55	21.43	21.71
		6	0	2	21.10	21.39	21.05
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					26805	26915	27025
3MHz	QPSK	1	0	0	22.38	22.18	22.05
			8	0	21.87	21.80	22.30
			14	0	21.95	21.73	22.28
		8	0	1	21.50	21.77	21.14
			4	1	21.64	21.54	21.84
			7	1	22.22	21.97	21.28
		15	0	1	21.64	21.82	21.52
	16QAM	1	0	1	21.35	21.04	22.36
			8	1	22.06	21.98	21.98
			14	1	21.52	21.68	22.67
		8	0	2	21.34	21.06	20.67
			4	2	21.76	21.30	21.24
			7	2	21.36	21.55	20.65
		15	0	2	20.69	20.55	20.79



Conducted Power of LTE Band 26A(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					26815	26915	27015
5MHz	QPSK	1	0	0	22.61	22.19	22.10
			12	0	22.65	22.27	22.43
			24	0	22.09	22.47	22.46
		12	0	1	21.52	21.77	21.17
			6	1	21.46	21.67	21.33
			13	1	21.60	21.98	21.38
		25	0	1	21.98	21.31	21.86
	16QAM	1	0	1	20.99	21.50	21.77
			12	1	21.30	21.51	21.09
			24	1	21.29	21.59	21.54
		12	0	2	20.83	21.36	20.63
			6	2	21.25	20.87	20.35
			13	2	20.35	21.22	20.65
		25	0	2	21.46	20.60	20.79
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					26840	26915	26990
10MHz	QPSK	1	0	0	22.46	22.40	22.32
			24	0	22.08	22.01	22.63
			49	0	21.91	21.74	22.46
		25	0	1	22.18	21.41	21.63
			12	1	21.46	21.94	21.52
			25	1	21.39	22.24	21.60
		50	0	1	21.70	21.60	21.74
	16QAM	1	0	1	20.91	20.70	21.54
			24	1	21.24	21.04	21.42
			49	1	21.17	21.05	21.70
		25	0	2	20.44	21.57	21.69
			12	2	21.18	21.56	20.76
			25	2	20.54	20.46	20.46
		50	0	2	21.42	21.19	20.67



Conducted Power of LTE Band 26A(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					26865	26915	26965
15MHz	QPSK	1	0	0	22.81	22.85	22.83
			38	0	22.84	22.95	23.02
			74	0	22.15	22.48	22.11
		38	0	1	21.34	21.26	22.00
			18	1	21.56	21.71	22.04
			37	1	21.89	21.90	21.93
		75	0	1	21.17	21.44	21.43
	16QAM	1	0	1	21.98	21.83	21.36
			38	1	21.51	22.04	21.92
			74	1	20.98	21.68	21.33
		38	0	2	21.85	22.23	21.69
			18	2	21.27	21.26	21.39
			37	2	21.57	22.04	21.55
		75	0	2	21.20	20.96	21.62



Conducted Power of LTE Band 26B(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					26697	26740	26783
1.4MHz	QPSK	1	0	0	22.32	22.02	22.12
			2	0	22.33	21.86	22.03
			5	0	22.26	22.29	21.94
		3	0	0	21.91	22.31	22.29
			1	0	22.31	22.06	22.14
			3	0	22.44	22.01	22.18
		6	0	1	22.25	21.86	21.56
	16QAM	1	0	1	21.90	21.72	21.77
			2	1	22.14	22.21	22.24
			5	1	22.26	22.19	22.26
		3	0	1	21.50	22.07	21.05
			1	1	21.69	22.57	21.46
			3	1	21.48	21.90	21.49
		6	0	2	21.71	21.45	21.04
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					26705	26740	26775
3MHz	QPSK	1	0	0	22.42	22.33	21.71
			8	0	22.55	21.83	22.62
			14	0	21.74	22.31	22.32
		8	0	1	21.34	22.26	21.28
			4	1	21.34	22.29	21.82
			7	1	22.03	21.98	21.68
		15	0	1	21.90	22.48	22.10
	16QAM	1	0	1	21.98	21.04	21.91
			8	1	21.75	21.93	22.29
			14	1	21.56	20.99	21.99
		8	0	2	21.49	20.97	20.39
			4	2	21.38	21.01	20.77
			7	2	21.00	21.48	20.79
		15	0	2	21.26	21.45	21.38



Conducted Power of LTE Band 26B(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					26715	26740	26765
5MHz	QPSK	1	0	0	23.05	23.14	22.88
			12	0	22.37	22.47	22.35
			24	0	22.81	22.24	22.24
		12	0	1	21.56	21.37	21.96
			6	1	22.19	22.12	21.62
			13	1	21.82	21.72	21.28
		25	0	1	22.07	21.98	22.16
	16QAM	1	0	1	20.66	21.66	21.56
			12	1	21.15	22.26	21.42
			24	1	21.50	21.55	21.77
		12	0	2	21.37	21.01	20.38
			6	2	21.27	21.01	21.10
			13	2	20.64	21.30	21.24
		25	0	2	20.58	21.41	21.17
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel		
					26740		
10MHz	QPSK	1	0	0	22.72		
			24	0	22.64		
			49	0	22.79		
		25	0	1	21.71		
			12	1	21.80		
			25	1	21.89		
		50	0	1	22.06		
	16QAM	1	0	1	21.52		
			24	1	21.25		
			49	1	21.14		
		25	0	2	21.13		
			12	2	20.41		
			25	2	20.80		
		50	0	2	20.87		



Conducted Power of LTE Band 66(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					131979	132422	132665
1.4MHz	QPSK	1	0	0	21.99	21.91	22.34
			2	0	21.78	22.35	22.27
			5	0	21.75	21.71	21.93
		3	0	0	22.70	21.93	21.65
			1	0	21.71	21.95	22.03
			3	0	21.71	21.36	21.76
		6	0	1	21.76	21.18	21.48
	16QAM	1	0	1	21.89	22.47	21.22
			2	1	22.80	22.24	21.28
			5	1	22.26	21.90	21.15
		3	0	1	21.12	21.29	21.00
			1	1	21.37	21.09	21.64
			3	1	21.63	21.43	20.82
		6	0	2	20.43	20.73	20.68
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					131987	132422	132657
3MHz	QPSK	1	0	0	22.27	21.68	21.43
			8	0	22.66	22.44	21.94
			14	0	22.62	21.50	21.90
		8	0	1	22.13	20.97	21.68
			4	1	21.28	21.70	21.28
			7	1	21.67	21.07	21.65
		15	0	1	21.76	21.36	21.61
	16QAM	1	0	1	21.57	21.32	21.97
			8	1	22.12	21.55	21.77
			14	1	21.37	21.19	21.92
		8	0	2	21.46	21.35	20.94
			4	2	20.65	20.84	20.97
			7	2	20.73	20.91	20.51
		15	0	2	21.11	20.30	20.78



Conducted Power of LTE Band 66(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					131997	132422	132647
5MHz	QPSK	1	0	0	22.98	22.76	22.81
			12	0	22.18	21.86	22.53
			24	0	22.24	22.08	22.32
		12	0	1	21.49	20.99	21.61
			6	1	21.25	21.41	21.03
			13	1	21.52	21.96	21.32
		25	0	1	21.71	21.74	21.92
	16QAM	1	0	1	21.02	20.72	21.48
			12	1	20.62	21.24	21.50
			24	1	21.04	21.59	21.47
		12	0	2	20.82	20.71	20.61
			6	2	20.62	20.81	21.02
			13	2	20.99	20.59	20.00
		25	0	2	21.20	20.74	21.03
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					132022	132422	132622
10MHz	QPSK	1	0	0	22.42	21.63	22.25
			24	0	22.04	21.95	21.80
			49	0	21.99	22.05	21.94
		25	0	1	21.74	21.06	21.80
			12	1	21.85	21.32	21.38
			25	1	21.41	21.21	21.91
		50	0	1	22.05	21.13	21.62
	16QAM	1	0	1	21.46	20.41	21.15
			24	1	21.28	21.36	21.56
			49	1	21.73	21.28	21.05
		25	0	2	21.15	20.63	21.34
			12	2	20.63	20.96	20.68
			25	2	20.42	20.36	20.56
		50	0	2	21.06	20.91	20.07



Conducted Power of LTE Band 66(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					132047	132422	132597
15MHz	QPSK	1	0	0	22.12	22.56	21.64
			38	0	22.08	22.18	22.22
			74	0	21.75	22.34	22.11
		38	0	1	21.49	21.27	21.50
			18	1	21.72	21.68	21.61
			37	1	21.60	20.99	21.91
		75	0	1	21.55	21.25	21.76
	16QAM	1	0	1	21.26	21.32	21.06
			38	1	21.47	21.56	20.97
			74	1	21.15	21.83	20.95
		38	0	2	21.83	21.53	21.63
			18	2	21.73	21.90	21.72
			37	2	21.95	21.79	21.36
		75	0	2	20.59	20.75	20.68
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					132072	132422	132572
20MHz	QPSK	1	0	0	22.96	22.71	22.68
			49	0	22.74	22.26	21.87
			99	0	22.56	22.18	22.16
		50	0	1	21.74	21.30	21.59
			25	1	21.68	21.08	21.84
			50	1	21.99	21.22	21.08
		100	0	1	22.01	21.72	21.80
	16QAM	1	0	1	21.40	22.11	21.32
			49	1	21.98	21.34	21.21
			99	1	21.50	21.58	21.72
		50	0	2	20.95	20.18	20.31
			25	2	20.90	20.11	20.45
			50	2	20.35	20.86	20.24
		100	0	2	20.85	21.14	20.38

11. EUT and Test Setup Photo

11.1 EUT Photos

Front side



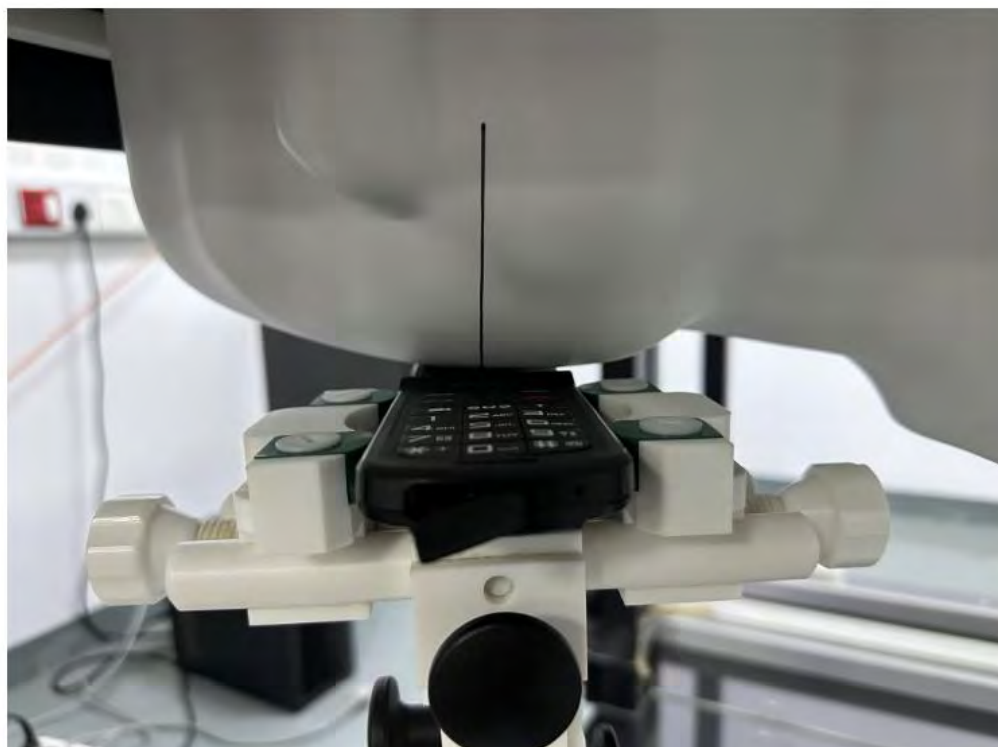
Back side





11.2 Setup Photos

Right Touch

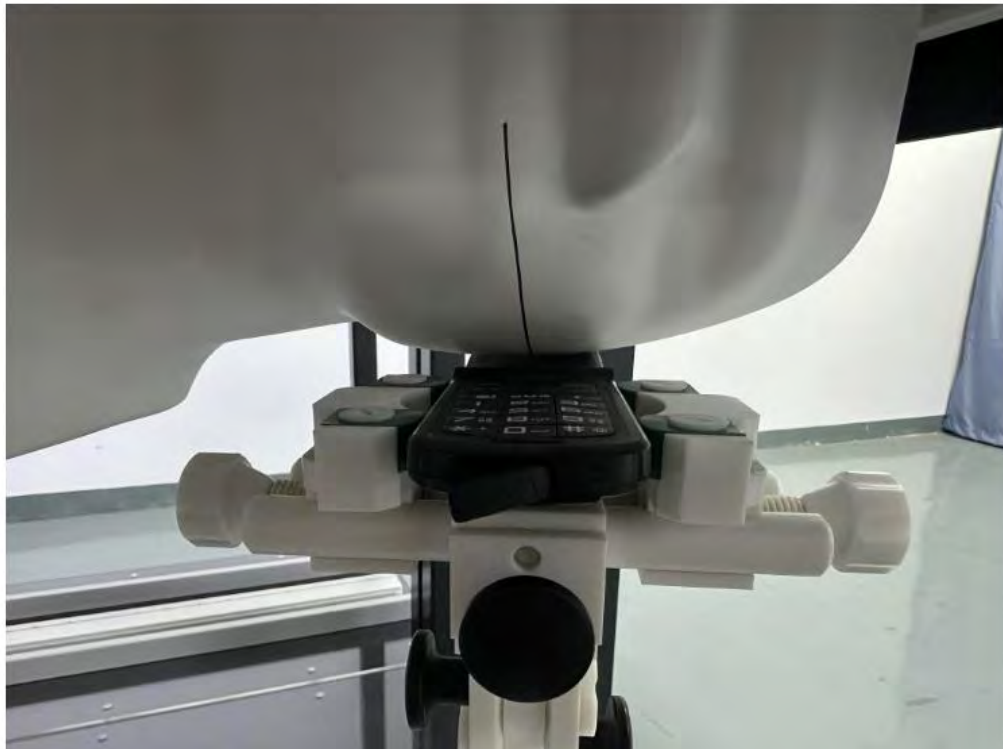


Right Tilt





Left Touch



Left Tilt

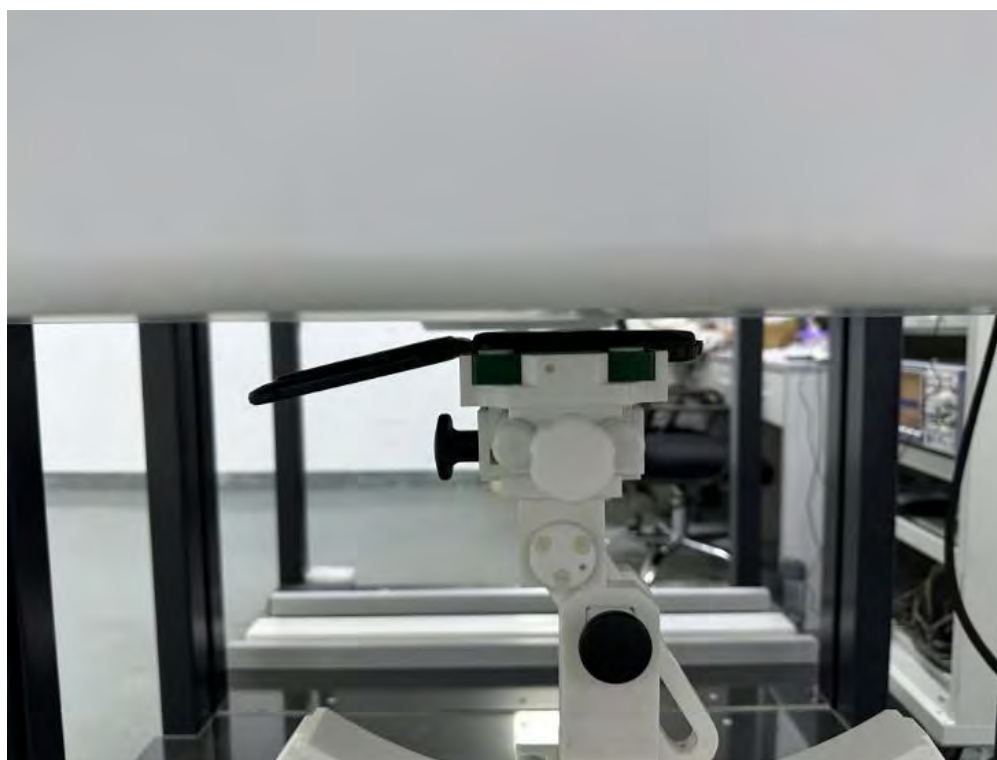




Body Front side (separation distance is 10mm)

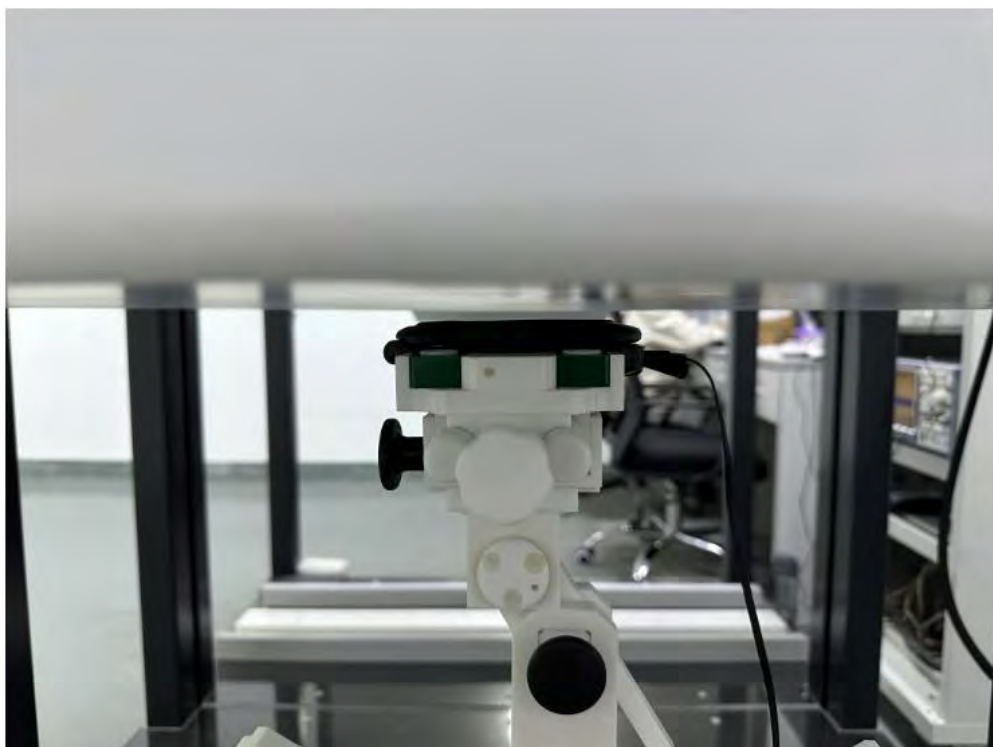


Body Back side (separation distance 10mm)

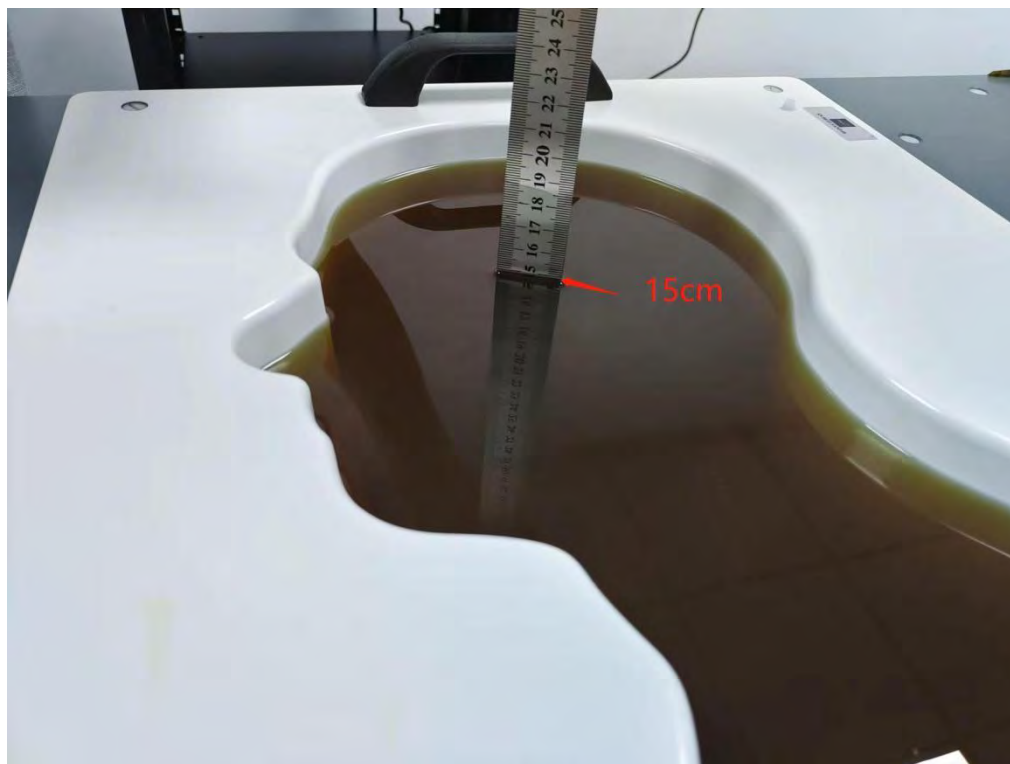




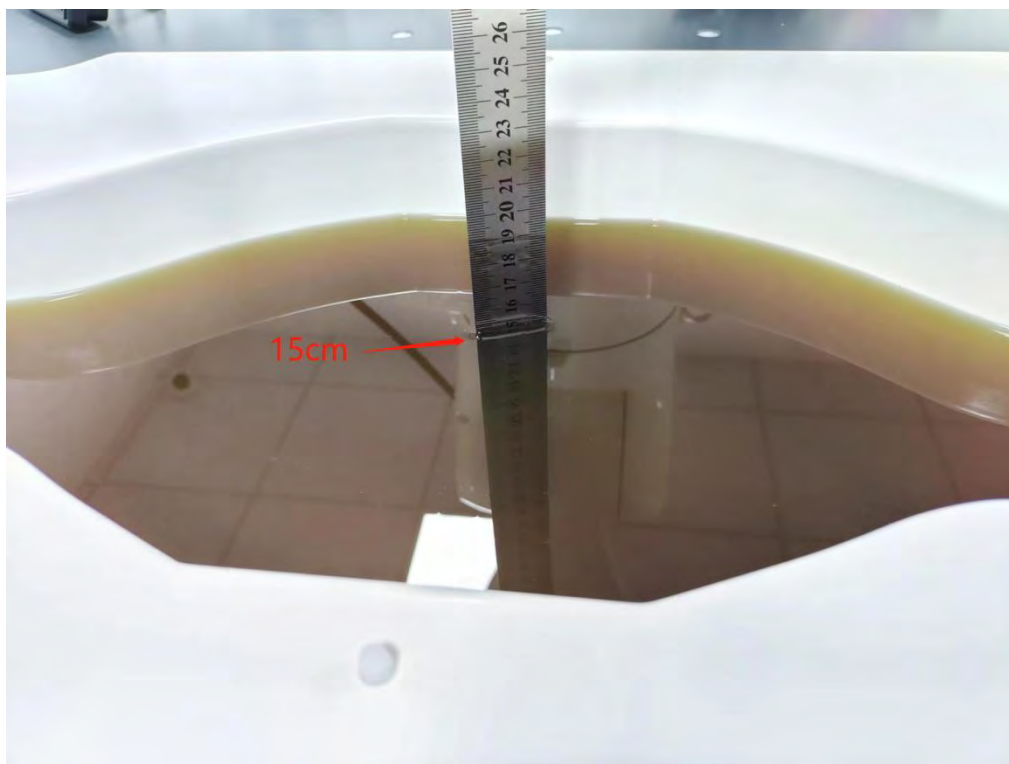
Back(Closed) side (separation distance is 10mm)



Liquid depth (15 cm)



Liquid depth (15 cm)





12. SAR Result Summary

12.1 Head SAR

SAR MEASUREMENT										
Depth of Liquid (cm):>15						Relative Humidity (%): 41.5				
Product: 4G Mobile Phone										
Test Mode: GSM850 with GMSK modulation										
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Tune-up scaling Factor	Scaled SAR (W/kg)	Limit (W/kg)
SIM 1 Card										
Left Cheek	voice	190	836.6	-0.22	0.514	32.40	32.36	1.01	0.519	1.6
Left Tilt	voice	190	836.6	-0.14	0.118	32.40	32.36	1.01	0.119	1.6
Right Cheek	voice	190	836.6	0.13	0.560	32.40	32.36	1.01	0.565	1.6
Right Tilt	voice	190	836.6	-0.22	0.114	32.40	32.36	1.01	0.115	1.6
Body back	voice	128	824.2	-0.24	0.951	32.40	32.31	1.02	0.971	1.6
Body back	voice	190	836.6	-0.32	1.063	32.40	32.36	1.01	1.073	1.6
Body back	voice	251	848.8	0.17	0.958	32.40	31.92	1.12	1.070	1.6
Body front	voice	190	836.6	-0.16	0.685	32.40	32.36	1.01	0.691	1.6
Body back (closed)+Ear.	voice	190	836.6	0.05	0.559	32.40	32.36	1.01	0.564	1.6
Body back	GPRS-2 slot	190	836.6	-0.16	0.728	22.10	21.55	1.14	0.826	1.6
Body front	GPRS-2 slot	190	836.6	-0.11	0.525	22.10	21.55	1.14	0.596	1.6



SAR MEASUREMENT										
Depth of Liquid (cm):>15						Relative Humidity (%): 49.6				
Product: 4G Mobile Phone										
Test Mode: PCS1900 with GMSK modulation										
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Tune-up scaling Factor	Scaled SAR (W/kg)	Limit (W/kg)
SIM 1 Card										
Left Cheek	voice	661	1880.0	-0.12	0.608	29.55	29.48	1.02	0.618	1.6
Left Tilt	voice	661	1880.0	-0.05	0.086	29.55	29.48	1.02	0.087	1.6
Right Cheek	voice	661	1880.0	0.06	0.352	29.55	29.48	1.02	0.358	1.6
Right Tilt	voice	661	1880.0	-0.12	0.127	29.55	29.48	1.02	0.129	1.6
Body back	voice	512	1850.2	-0.05	1.031	29.55	29.22	1.08	1.112	1.6
Body back	voice	661	1880	0.05	1.152	29.55	29.48	1.02	1.171	1.6
Body back	voice	810	1909.8	-0.14	1.046	29.55	29.52	1.01	1.053	1.6
Body front	voice	661	1880	-0.25	0.642	29.55	29.48	1.02	0.652	1.6
Body back(closed)+Ear.	voice	512	1850.2	0.32	0.947	29.55	29.22	1.08	1.022	1.6
Body back(closed)+Ear.	voice	661	1880	-0.16	0.964	29.55	29.48	1.02	0.980	1.6
Body back(closed)+Ear.	voice	810	1909.8	0.22	0.947	29.55	29.52	1.01	0.954	1.6
Body back	GPRS-4 slot	512	1850.2	-0.15	0.842	23.00	22.95	1.01	0.852	1.6
Body back	GPRS-4 slot	661	1880	-0.24	0.826	23.00	22.02	1.25	1.035	1.6
Body back	GPRS-4 slot	810	1909.8	0.32	0.853	23.00	22.69	1.07	0.916	1.6
Body front	GPRS-4 slot	661	1880.0	-0.25	0.546	23.00	22.02	1.25	0.684	1.6



SAR MEASUREMENT										
Depth of Liquid (cm):>15						Relative Humidity (%): 49.6				
Product: 4G Mobile Phone										
Test Mode: WCDMA Band II with QPSK modulation										
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Tune-up scaling Factor	Scaled SAR (W/kg)	Limit (W/kg)
Left Cheek	RMC 12.2kbps	9400	1880	-0.14	0.770	22.70	22.68	1.00	0.774	1.6
Left Tilt	RMC 12.2kbps	9400	1880	-0.08	0.162	22.70	22.68	1.00	0.163	1.6
Right Cheek	RMC 12.2kbps	9400	1880	0.01	0.757	22.70	22.68	1.00	0.760	1.6
Right Tilt	RMC 12.2kbps	9400	1880	-0.16	0.168	22.70	22.68	1.00	0.169	1.6
Body back	RMC 12.2kbps	9262	1852.4	-0.09	0.844	22.70	22.62	1.02	0.860	1.6
Body back	RMC 12.2kbps	9400	1880	0.14	0.763	22.70	22.68	1.00	0.767	1.6
Body back	RMC 12.2kbps	9538	1907.6	-0.18	0.803	22.70	22.65	1.01	0.812	1.6
Body front	RMC 12.2kbps	9400	1880	0.15	0.649	22.70	22.68	1.00	0.652	1.6
Body back(closed) +Ear.	RMC 12.2kbps	9400	1880	0.06	0.736	22.70	22.68	1.00	0.739	1.6



SAR MEASUREMENT										
Depth of Liquid (cm):>15						Relative Humidity (%): 45.3				
Product: 4G Mobile Phone										
Test Mode: WCDMA Band IV with QPSK modulation										
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Tune-up scaling Factor	Scaled SAR (W/kg)	Limit (W/kg)
Left Cheek	RMC 12.2kbps	8662	1732.4	-0.32	0.542	22.80	22.72	1.02	0.552	1.6
Left Tilt	RMC 12.2kbps	8662	1732.4	0.24	0.081	22.80	22.72	1.02	0.083	1.6
Right Cheek	RMC 12.2kbps	8662	1732.4	-0.36	0.449	22.80	22.72	1.02	0.457	1.6
Right Tilt	RMC 12.2kbps	8662	1732.4	0.23	0.084	22.80	22.72	1.02	0.086	1.6
Body back	RMC 12.2kbps	8662	1732.4	-0.24	0.516	22.80	22.72	1.02	0.526	1.6
Body front	RMC 12.2kbps	8662	1732.4	-0.16	0.295	22.80	22.72	1.02	0.300	1.6
Body back(closed)+Ear.	RMC 12.2kbps	8662	1732.4	0.12	0.458	22.80	22.72	1.02	0.467	1.6



SAR MEASUREMENT										
Depth of Liquid (cm):>15					Relative Humidity (%): 41.5					
Product: 4G Mobile Phone										
Test Mode: WCDMA Band V with QPSK modulation										
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Tune-up scaling Factor	Scaled SAR (W/kg)	Limit (W/kg)
Left Cheek	RMC 12.2kbps	4183	836.4	-0.18	0.769	23.30	23.15	1.04	0.796	1.6
Left Tilt	RMC 12.2kbps	4183	836.4	-0.32	0.159	23.30	23.15	1.04	0.165	1.6
Right Cheek	RMC 12.2kbps	4183	836.4	0.13	0.707	23.30	23.15	1.04	0.732	1.6
Right Tilt	RMC 12.2kbps	4183	836.4	-0.29	0.141	23.30	23.15	1.04	0.146	1.6
Body back	RMC 12.2kbps	4132	826.4	-0.06	1.079	23.30	23.02	1.07	1.151	1.6
Body back	RMC 12.2kbps	4183	836.4	0.28	1.061	23.30	23.15	1.04	1.098	1.6
Body back	RMC 12.2kbps	4233	846.6	-0.22	1.093	23.30	23.28	1.00	1.098	1.6
Body front	RMC 12.2kbps	4132	826.4	0.36	0.782	23.30	23.02	1.07	0.834	1.6
Body front	RMC 12.2kbps	4183	836.4	-0.15	0.785	23.30	23.15	1.04	0.813	1.6
Body front	RMC 12.2kbps	4233	846.6	0.32	0.801	23.30	23.28	1.00	0.805	1.6
Body back(closed)+Ear.	RMC 12.2kbps	4132	826.4	-0.03	0.863	23.30	23.02	1.07	0.920	1.6
Body back(closed)+Ear.	RMC 12.2kbps	4183	836.4	0.16	0.877	23.30	23.15	1.04	0.908	1.6
Body back(closed)+Ear.	RMC 12.2kbps	4233	846.6	-0.18	0.873	23.30	23.28	1.00	0.877	1.6



SAR MEASUREMENT													
Depth of Liquid (cm):>15							Relative Humidity (%): 49.6						
Product: 4G Mobile Phone													
Test Mode: LTE Band 2													
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune up Power (dBm)	Meas. output Power (dBm)	Tune- up scalin g Factor	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocati on	UL RB START									
20	QPSK	Left Cheek	1	0	18900	1880	-0.15	0.785	22.65	22.55	1.02	0.803	1.6
		Left Tilt	1	0	18900	1880	0.15	0.146	22.65	22.55	1.02	0.149	1.6
		Right Cheek	1	0	18900	1880	-0.25	0.757	22.65	22.55	1.02	0.775	1.6
		Right Tilt	1	0	18900	1880	-0.14	0.126	22.65	22.55	1.02	0.129	1.6
		Body back	1	0	18700	1860	0.22	0.952	22.65	22.62	1.01	0.959	1.6
		Body back	1	0	18900	1880	-0.15	0.969	22.65	22.55	1.02	0.992	1.6
		Body back	1	0	19100	1900	-0.29	0.995	22.65	22.46	1.04	1.039	1.6
		Body front	1	0	18900	1880	0.15	0.663	22.65	22.55	1.02	0.678	1.6
		Body back(closed) +Ear.	1	0	18700	1860	-0.27	0.847	22.65	22.62	1.01	0.853	1.6
		Body back(closed) +Ear.	1	0	18900	1880	-0.23	0.946	22.65	22.55	1.02	0.968	1.6
		Body back(closed) +Ear.	1	0	19100	1900	0.21	0.848	22.65	22.46	1.04	0.886	1.6



SAR MEASUREMENT													
Depth of Liquid (cm):>15						Relative Humidity (%): 45.3							
Product: 4G Mobile Phone													
Test Mode: LTE Band 4													
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune up Power (dBm)	Meas. output Power (dBm)	Tune- up scalin g Factor	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START									
20	QPSK	Left Cheek	1	0	20175	1732.5	-0.15	0.636	22.85	22.78	1.02	0.646	1.6
		Left Tilt	1	0	20175	1732.5	-0.13	0.196	22.85	22.78	1.02	0.199	1.6
		Right Cheek	1	0	20175	1732.5	0.24	0.374	22.85	22.78	1.02	0.380	1.6
		Right Tilt	1	0	20175	1732.5	-0.22	0.097	22.85	22.78	1.02	0.099	1.6
		Body back	1	0	20175	1732.5	-0.23	0.597	22.85	22.78	1.02	0.607	1.6
		Body front	1	0	20175	1732.5	-0.25	0.344	22.85	22.78	1.02	0.350	1.6
		Body back(closed)+ Ear.	1	0	20175	1732.5	0.15	0.494	22.85	22.78	1.02	0.502	1.6



SAR MEASUREMENT													
Depth of Liquid (cm):>15						Relative Humidity (%): 41.5							
Product: 4G Mobile Phone													
Test Mode: LTE Band 5													
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune up Power (dBm)	Meas. output Power (dBm)	Tune- up scaling Factor	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocat ion	UL RB START									
10	QPSK	Left Cheek	1	0	20525	836.5	-0.13	0.758	22.90	22.74	1.04	0.786	1.6
		Left Tilt	1	0	20525	836.5	0.42	0.213	22.90	22.74	1.04	0.221	1.6
		Right Cheek	1	0	20525	836.5	-0.42	0.338	22.90	22.74	1.04	0.351	1.6
		Right Tilt	1	0	20525	836.5	-0.12	0.174	22.90	22.74	1.04	0.181	1.6
		Body back	1	0	20450	829	-0.25	1.037	22.90	22.72	1.04	1.081	1.6
		Body back	1	0	20525	836.5	0.15	1.125	22.90	22.74	1.04	1.167	1.6
		Body back	1	0	20600	844	-0.24	1.031	22.90	22.88	1.00	1.036	1.6
		Body front	1	0	20525	836.5	0.21	0.762	22.90	22.74	1.04	0.791	1.6
		Body back(closed)+Ear.	1	0	20450	829	-0.12	0.836	22.90	22.72	1.04	0.871	1.6
		Body back(closed)+Ear.	1	0	20525	836.5	-0.24	0.842	22.90	22.74	1.04	0.874	1.6
		Body back(closed)+Ear.	1	0	20600	844	0.32	0.837	22.90	22.88	1.00	0.841	1.6



SAR MEASUREMENT													
Depth of Liquid (cm):>15						Relative Humidity (%): 49.2							
Product: 4G Mobile Phone													
Test Mode: LTE Band 7													
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune up Power (dBm)	Meas. output Power (dBm)	Tune- up scaling Factor	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START									
20	QPSK	Left Cheek	1	0	20850	2510	-0.12	0.742	22.20	22.16	1.01	0.749	1.6
		Left Cheek	1	0	21100	2535	0.23	0.842	22.20	22.10	1.02	0.862	1.6
		Left Cheek	1	0	21350	2560	-0.23	0.872	22.20	22.08	1.03	0.896	1.6
		Left Tilt	1	0	21100	2535	-0.24	0.150	22.20	22.10	1.02	0.153	1.6
		Right Cheek	1	0	21100	2535	0.12	0.563	22.20	22.10	1.02	0.576	1.6
		Right Tilt	1	0	21100	2535	-0.21	0.131	22.20	22.10	1.02	0.134	1.6
		Body back	1	0	20850	2510	-0.13	0.884	22.20	22.16	1.01	0.892	1.6
		Body back	1	0	21100	2535	-0.15	0.938	22.20	22.10	1.02	0.960	1.6
		Body back	1	0	21350	2560	-0.22	0.974	22.20	22.08	1.03	1.001	1.6
		Body front	1	0	21100	2535	0.12	0.286	22.20	22.10	1.02	0.293	1.6
		Body back(closed)+Ear.	1	0	21100	2535	-0.24	0.681	22.20	22.10	1.02	0.697	1.6



SAR MEASUREMENT													
Depth of Liquid (cm):>15						Relative Humidity (%): 56.4							
Product: 4G Mobile Phone													
Test Mode: LTE Band 12													
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune up Power (dBm)	Meas. output Power (dBm)	Tune- up scaling Factor	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START									
10	QPSK	Left Cheek	1	0	23095	707.5	-0.12	0.459	22.10	22.01	1.02	0.469	1.6
		Left Tilt	1	0	23095	707.5	-0.04	0.131	22.10	22.01	1.02	0.134	1.6
		Right Cheek	1	0	23095	707.5	0.15	0.364	22.10	22.01	1.02	0.372	1.6
		Right Tilt	1	0	23095	707.5	-0.23	0.094	22.10	22.01	1.02	0.096	1.6
		Body back	1	0	23095	707.5	0.24	0.575	22.10	22.01	1.02	0.587	1.6
		Body front	1	0	23095	707.5	-0.15	0.463	22.10	22.01	1.02	0.473	1.6
		Body back(closed)+Ear	1	0	23095	707.5	-0.25	0.447	22.10	22.01	1.02	0.456	1.6



SAR MEASUREMENT													
Depth of Liquid (cm):>15						Relative Humidity (%): 56.4							
Product: 4G Mobile Phone													
Test Mode: LTE Band 13													
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune up Power (dBm)	Meas. output Power (dBm)	Tune- up scaling Factor	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START									
10	QPSK	Left Cheek	1	0	23230	782	-0.12	0.664	22.80	22.75	1.01	0.672	1.6
		Left Tilt	1	0	23230	782	-0.23	0.162	22.80	22.75	1.01	0.164	1.6
		Right Cheek	1	0	23230	782	0.24	0.736	22.80	22.75	1.01	0.745	1.6
		Right Tilt	1	0	23230	782	-0.14	0.164	22.80	22.75	1.01	0.166	1.6
		Body back	1	0	23230	782	0.17	0.988	22.80	22.75	1.01	0.999	1.6
		Body front	1	0	23230	782	-0.12	0.661	22.80	22.75	1.01	0.669	1.6
		Body back(closed)+Ear	1	0	23230	782	-0.12	0.469	22.80	22.75	1.01	0.474	1.6



SAR MEASUREMENT													
Depth of Liquid (cm):>15						Relative Humidity (%): 56.4							
Product: 4G Mobile Phone													
Test Mode: LTE Band 17													
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Tune- up scaling Factor	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START									
10	QPSK	Left Cheek	1	0	23790	710	-0.21	0.543	22.80	22.75	1.01	0.549	1.6
		Left Tilt	1	0	23790	710	-0.21	0.112	22.80	22.75	1.01	0.113	1.6
		Right Cheek	1	0	23790	710	0.24	0.486	22.80	22.75	1.01	0.492	1.6
		Right Tilt	1	0	23790	710	-0.25	0.132	22.80	22.75	1.01	0.134	1.6
		Body back	1	0	23790	710	-0.13	0.338	22.80	22.75	1.01	0.342	1.6
		Body front	1	0	23790	710	0.14	0.232	22.80	22.75	1.01	0.235	1.6
		Body back(closed)+Ear	1	0	23790	710	0.09	0.298	22.80	22.75	1.01	0.301	1.6



SAR MEASUREMENT													
Depth of Liquid (cm):>15						Relative Humidity (%): 41.5							
Product: LTE smartphone													
Test Mode: LTE Band 26a													
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune up Power (dBm)	Meas. output Power (dBm)	Tune-up scaling Factor	Scaled SAR (W/Kg)	Limit (W/kg)
			UL RB Allocation	UL RB START									
15	QPSK	Left Cheek	1	0	26915	836.5	-0.12	0.670	22.90	22.85	1.01	0.678	1.6
		Left Tilt	1	0	26915	836.5	-0.32	0.169	22.90	22.85	1.01	0.171	1.6
		Right Cheek	1	0	26915	836.5	0.14	0.774	22.90	22.85	1.01	0.783	1.6
		Right Tilt	1	0	26915	836.5	-0.12	0.144	22.90	22.85	1.01	0.146	1.6
		Body back	1	0	26865	831.5	-0.04	1.124	22.90	22.81	1.02	1.148	1.6
		Body back	1	0	26915	836.5	0.16	1.116	22.90	22.85	1.01	1.129	1.6
		Body back	1	0	26965	841.5	-0.24	1.125	22.90	22.83	1.02	1.143	1.6
		Body front	1	0	26865	831.5	-0.14	0.886	22.90	22.81	1.02	0.905	1.6
		Body front	1	0	26915	836.5	0.23	0.867	22.90	22.85	1.01	0.877	1.6
		Body front	1	0	26965	841.5	-0.12	0.875	22.90	22.83	1.02	0.889	1.6
		Body back(closed)+Ear.	1	0	26965	841.5	-0.24	0.564	22.90	22.83	1.02	0.573	1.6



SAR MEASUREMENT													
Depth of Liquid (cm):>15						Relative Humidity (%): 41.5							
Product: LTE smartphone													
Test Mode: LTE Band 26b													
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Tune- up scaling Factor	Scaled SAR (W/Kg)	Limit (W/kg)
			UL RB Allocation	UL RB START									
10	QPSK	Left Cheek	1	0	26740	819	-0.12	0.613	22.75	22.72	1.01	0.617	1.6
		Left Tilt	1	0	26740	819	-0.08	0.185	22.75	22.72	1.01	0.186	1.6
		Right Cheek	1	0	26740	819	-0.22	0.751	22.75	22.72	1.01	0.756	1.6
		Right Tilt	1	0	26740	819	0.15	0.151	22.75	22.72	1.01	0.152	1.6
		Body back	1	0	26740	819	-0.22	0.942	22.75	22.72	1.01	0.949	1.6
		Body front	1	0	26740	819	-0.09	0.306	22.75	22.72	1.01	0.308	1.6
		Body back(closed)+Ear	1	0	26740	819	0.12	0.642	22.75	22.72	1.01	0.646	1.6



SAR MEASUREMENT													
Depth of Liquid (cm):>15						Relative Humidity (%): 45.3							
Product: LTE smartphone													
Test Mode: LTE Band 66													
BW MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Tune- up scaling Factor	Scaled SAR (W/Kg)	Limit (W/kg)
			UL RB Allocation	UL RB START									
20	QPSK	Left Cheek	1	0	132422	1755	-0.15	0.529	23.00	22.71	1.07	0.566	1.6
		Left Tilt	1	0	132422	1755	-0.12	0.115	23.00	22.71	1.07	0.123	1.6
		Right Cheek	1	0	132422	1755	0.16	0.509	23.00	22.71	1.07	0.544	1.6
		Right Tilt	1	0	132422	1755	-0.21	0.103	23.00	22.71	1.07	0.110	1.6
		Body back	1	0	132072	1720	-0.12	0.976	23.00	22.96	1.01	0.985	1.6
		Body back	1	0	132422	1755	0.21	0.986	23.00	22.71	1.07	1.054	1.6
		Body back	1	0	132572	1770	-0.14	0.984	23.00	22.68	1.08	1.059	1.6
		Body front	1	0	132422	1755	-0.12	0.635	23.00	22.71	1.07	0.679	1.6
		Body back(closed)+Ear.	1	0	132072	1720	0.21	0.853	23.00	22.96	1.01	0.861	1.6
		Body back(closed)+Ear.	1	0	132422	1755	-0.15	0.938	23.00	22.71	1.07	1.003	1.6
		Body back(closed)+Ear.	1	0	132572	1770	-0.20	0.875	23.00	22.68	1.08	0.942	1.6

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 Repeated SAR

Repeated SAR											
Product: 4G Mobile Phone											
Test Mode: GSM850& PCS1900& WCDMA Band II & WCDMA Band V & LTE Band 2& LTE Band 5& LTE Band 7& LTE Band 13 LTE Band 26a & LTE Band 26b& LTE Band 66											
Position	Mode		Ch.	Fr. (MHz)	Power Drift (<±5%)	Once SAR (1g) (W/kg)	Power Drift (<±5%)	Twice SAR (1g) (W/kg)	Power Drift (<±5%)	Third SAR (1g) (W/kg)	Limit W/kg
Body back	voice		190	836.6	-0.24	1.029	--	--	--	--	1.6
Body back	voice		661	1880	0.30	1.066	--	--	--	--	1.6
Body back	RMC 12.2kbps		9262	1852.4	-0.11	0.850	--	--	--	--	1.6
Body back	RMC 12.2kbps		4233	846.6	-0.23	1.051	--	--	--	--	1.6
Position	Mode		Ch.	Fr. (MHz)	Power Drift (<±5%)	Once SAR (1g) (W/kg)	Power Drift (<±5%)	Twice SAR (1g) (W/kg)	Power Drift (<±5%)	Third SAR (1g) (W/kg)	Limit W/kg
	UL RB Allocation	UL RB START									
Body back	1	0	19100	1900	-0.02	0.942	--	--	--	--	1.6
Body back	1	0	20525	836.5	-0.18	1.148	--	--	--	--	1.6
Body back	1	0	21350	2560	0.14	0.947	--	--	--	--	1.6
Body back	1	0	23230	782	-0.03	0.919	--	--	--	--	1.6
Body back	1	0	26965	841.5	-0.04	1.091	--	--	--	--	1.6
Body back	1	0	26740	819	-0.05	0.935	--	--	--	--	1.6
Body back	1	0	132422	1755	0.29	0.875	--	--	--	--	1.6



12.3 Repeated SAR measurement

The second repeated SAR judge reference									
Product: 4G Mobile Phone									
Band	Position	Mode		Ch.	Fr. (MHz)	Original SAR (1g) (W/kg)	First SAR (1g) (W/kg)	Ratio	Limit
GSM850	Body back	voice		190	836.6	1.063	1.029	1.03	<1.2
PCS1900	Body back	voice		661	1880	1.152	1.066	1.08	<1.2
WCDMA Band II	Body back	RMC 12.2kbps		9262	1852.4	0.844	0.850	0.99	<1.2
WCDMA Band V	Body back	RMC 12.2kbps		4233	846.6	1.093	1.051	1.04	<1.2
Band	Position	Mode		Ch.	Fr. (MHz)	Original SAR (1g) (W/kg)	First SAR (1g) (W/kg)	Ratio	Limit
		UL RB Allocation	UL RB START						
LTE Band 2	Body back	1	0	19100	1900	0.995	0.942	1.06	<1.2
LTE Band 5	Body back	1	0	20525	836.5	1.125	1.148	0.98	<1.2
LTE Band 7	Body back	1	0	21350	2560	0.974	0.947	1.03	<1.2
LTE Band 13	Body back	1	0	23230	782	0.988	0.919	1.08	<1.2
LTE Band 26a	Body back	1	0	26965	841.5	1.125	1.091	1.03	<1.2
LTE Band 26b	Body back	1	0	26740	819	0.942	0.935	1.01	<1.2
LTE Band 66	Body back	1	0	132422	1755	0.986	0.875	1.13	<1.2

Note:

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



12.4 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		Max Power including Tune-up Tolerance		Separation Distance (mm)	Estimated SAR (W/kg)
		dBm	mW		
BT	Head	7.5	5.62	0	0.236
	Body	7.5	5.62	10	0.118



Simultaneous Mode	Position	Mode	Max. 1-g SAR	1-g Sum SAR
			(W/kg)	(W/kg)
GSM + Bluetooth	Head	GSM	0.618	0.854
		Bluetooth	0.236	
	Body	GSM	1.171	1.289
		Bluetooth	0.118	
WCDMA + Bluetooth	Head	WCDMA	0.796	1.032
		Bluetooth	0.236	
	Body	WCDMA	1.151	1.269
		Bluetooth	0.118	
LTE + Bluetooth	Head	LTE	0.896	1.132
		Bluetooth	0.236	
	Body	LTE	1.148	1.266
		Bluetooth	0.118	

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	2022.02.11	2025.02.10
835MHz Dipole	MVG	DIP0G835	SN 06/22 DIP0G835-639	2022.02.11	2025.02.10
1800MHz Dipole	MVG	DIP1G800	SN 06/22 DIP1G800-640	2022.02.11	2025.02.10
1900MHz Dipole	MVG	DIP1G900	SN 06/22 DIP1G900-641	2022.02.11	2025.02.10
2600MHz Dipole	MVG	DIP2G600	SN 06/22 DIP2G600-646	2022.02.11	2025.02.10
E-Field Probe	MVG	EPGO364	SN 04/22 EPGO364	2024.02.07	2025.02.06
Liquid Calibration Kit	MVG	OCPG 87	SN 06/22 OCPG87	2024.02.07	2025.02.06
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	2024.03.25	2025.03.24
Multi Meter	DMM6500	Keithley	4527252	2024.03.15	2025.03.14
Signal Generator	Keysight	N5182B	MY59100717	2024.03.09	2025.03.08
Wireless Communication Test Set	R&S	CMW500	137737	2024.03.09	2025.03.08
Power Sensor	R&S	Z11	116184	2024.02.23	2025.02.22
Electronic Temperature hygrometer	N/A	ST-W2318	N/A	2024.03.11	2025.03.10
Temperature hygrometer	N/A	TP101	N/A	2024.03.11	2025.03.10



Appendix A. System Validation Plots

System Performance Check Data (750MHz)

Type: Phone measurement (Complete)

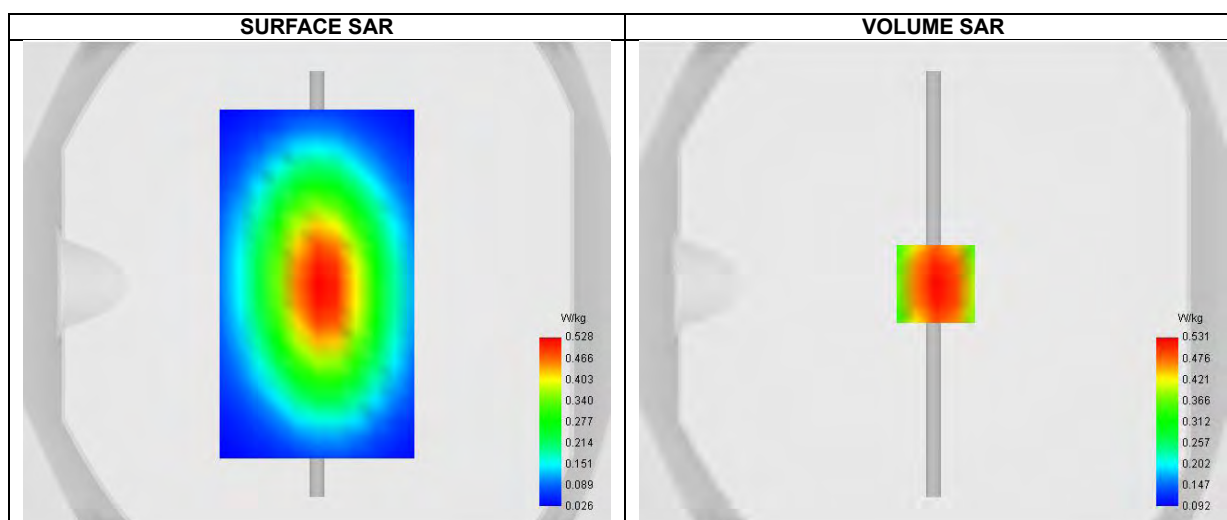
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2024-11-21

Phantom	Validation plane
Device Position	Dipole
Band	CW750
Channels	Middle
Signal	CW
Frequency (MHz)	750.000
Relative permittivity	43.23
Conductivity (S/m)	0.90
Probe	SN 04/22 EPGO364
ConvF	1.68
Crest factor:	1:1

Experimental conditions.



Maximum location: X=1.00, Y=0.00 ; SAR Peak: 0.67 W/kg

D. SAR 1g & 10g

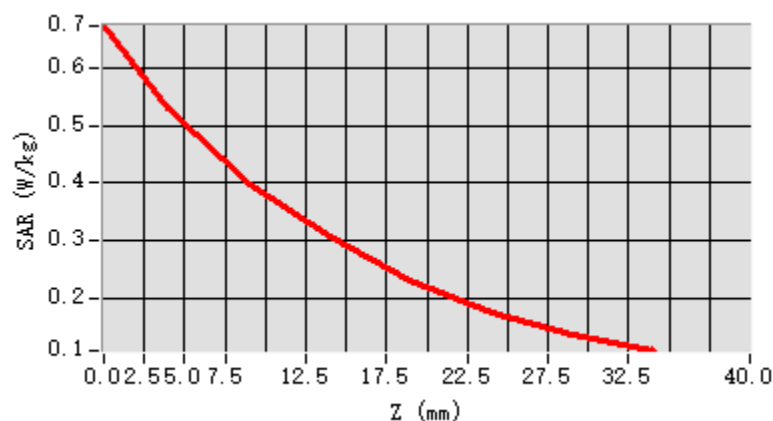
SAR 10g (W/Kg)	0.367
SAR 1g (W/Kg)	0.512
Variation (%)	-0.910



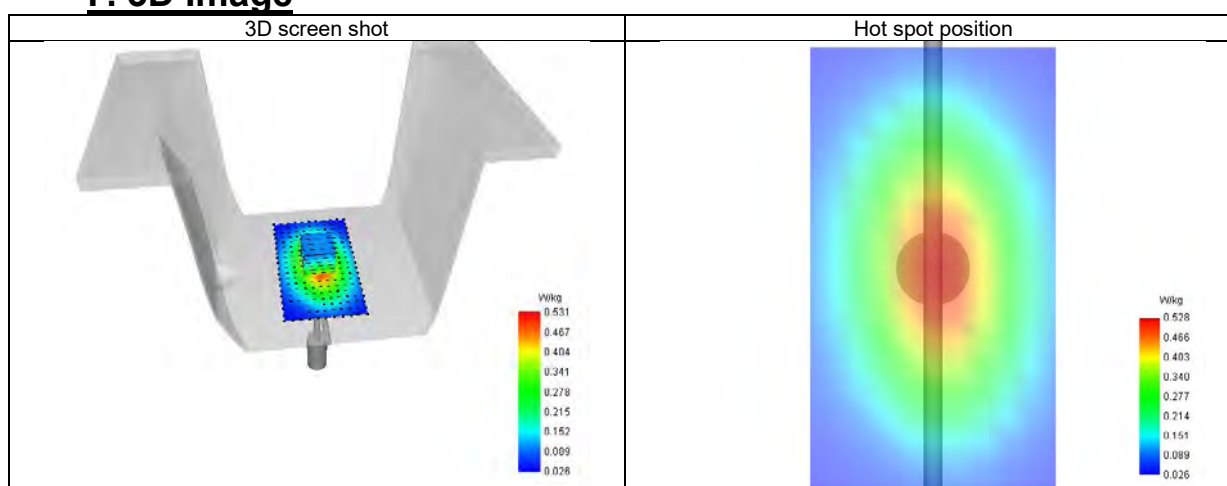
Horizontal validation criteria: minimum distance (mm)	-1.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	75.131916

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.671	0.531	0.399	0.308	0.233	0.178	0.138



F. 3D Image





System Performance Check Data (750MHz)

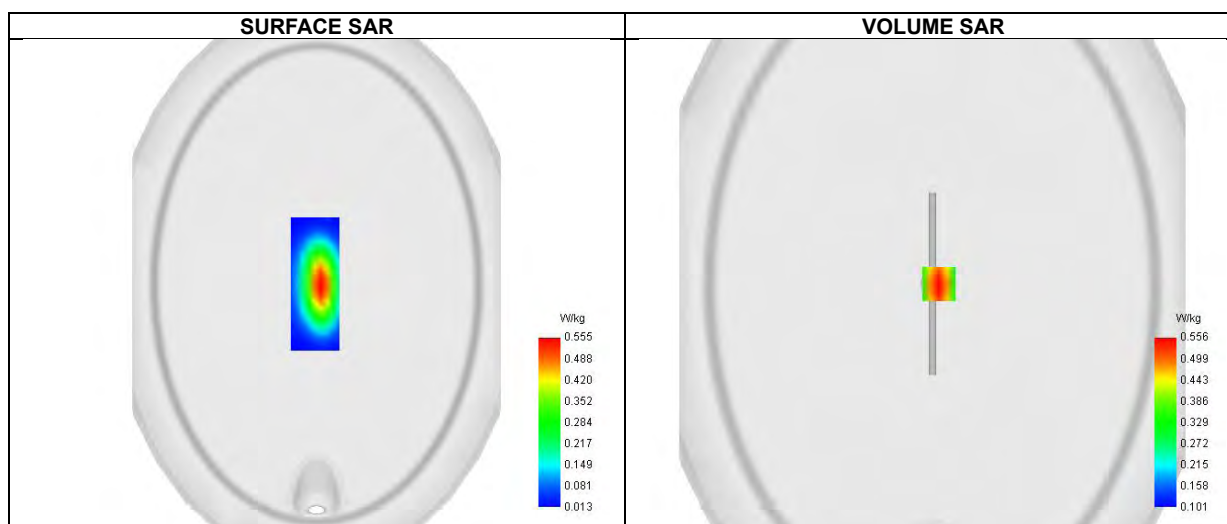
Type: Phone measurement (Complete)

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

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

Date of measurement: 2024-11-21

Phantom	Validation plane
Device Position	Dipole
Band	CW750
Channels	Middle
Signal	CW
Frequency (MHz)	750.000
Frequency (MHz)	750.000
Relative permittivity	43.23
Probe	SN 04/22 EPGO364
ConvF	1.68
Crest factor:	1:1



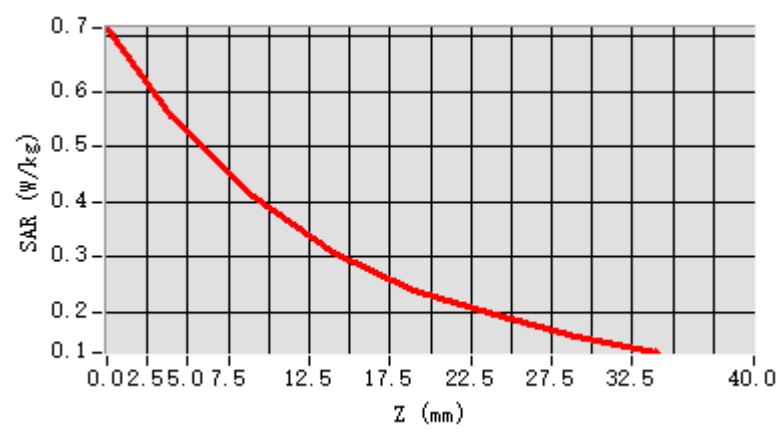
Maximum location: X=6.00, Y=0.00 ; SAR Peak: 0.72 W/kg

D. SAR 1g & 10g

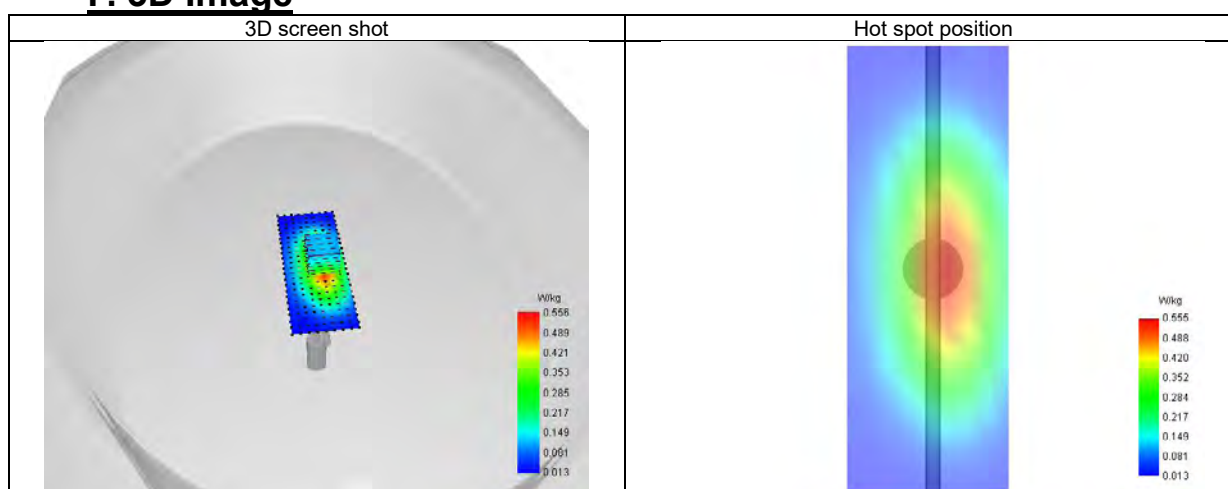
SAR 10g (W/Kg)	0.386
SAR 1g (W/Kg)	0.570
Variation (%)	-3.640
Horizontal validation criteria: minimum distance (mm)	22.626905
Vertical validation criteria: SAR ratio M2/M1 (%)	73.601671

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.718	0.560	0.414	0.313	0.241	0.196	0.158



F. 3D Image





System Performance Check Data (835MHz)

Type: Phone measurement (Complete)

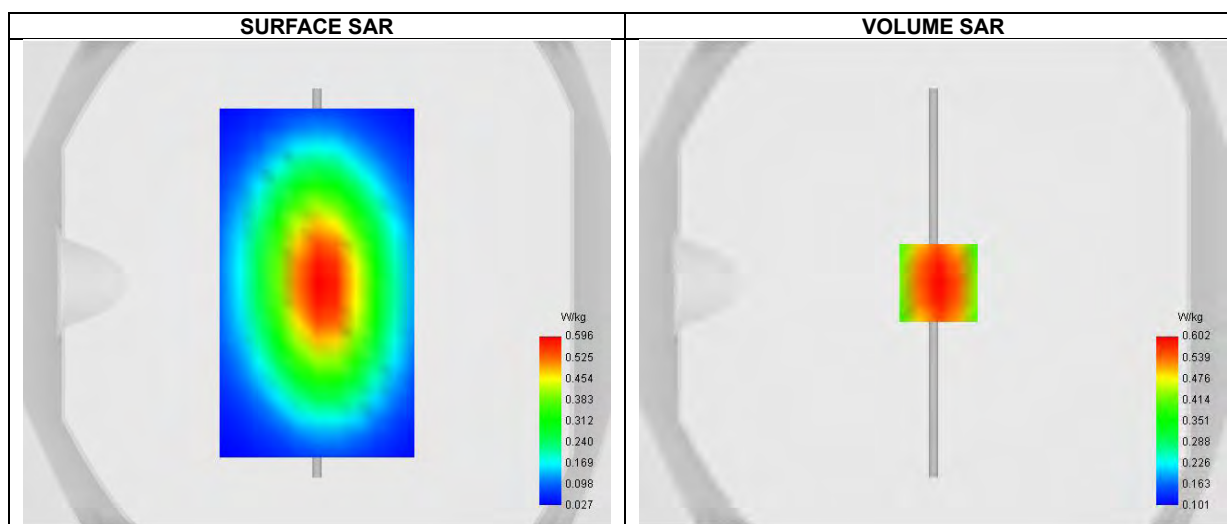
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2024-11-22

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW835
Channels	Middle
Signal	CW
Frequency (MHz)	835.000
Relative permittivity	41.63
Conductivity (S/m)	0.920
Probe	SN 04/22 EPGO364
ConvF	1.70
Crest factor:	1:1

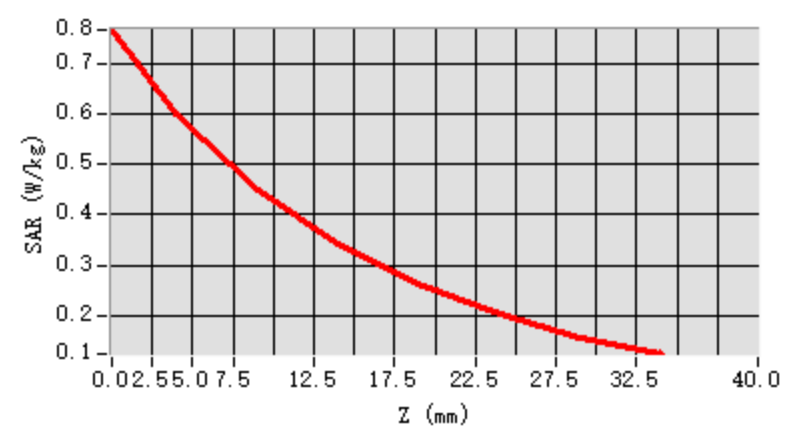


D. SAR 1g & 10g

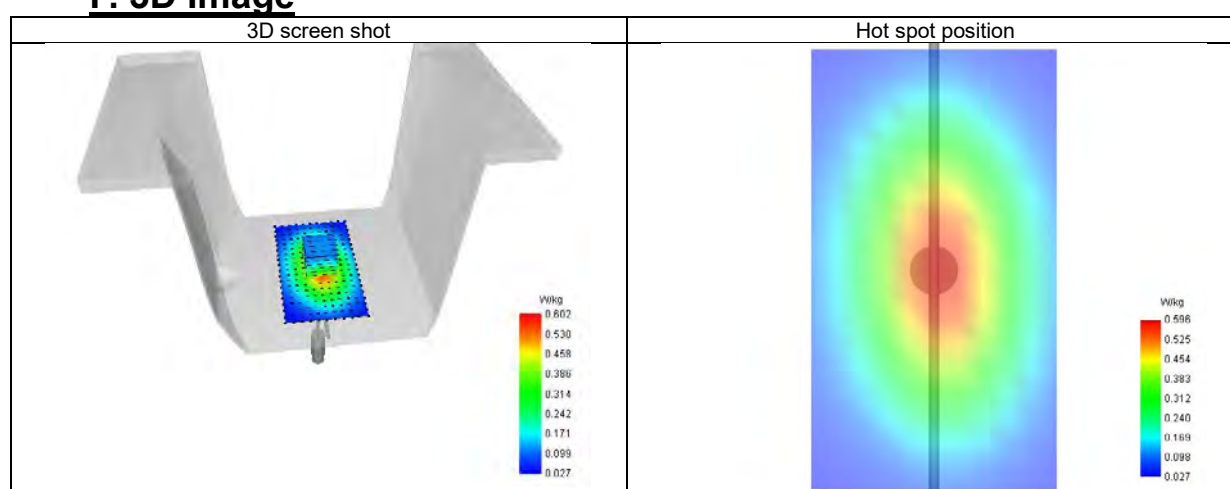
SAR 10g (W/Kg)	0.414
SAR 1g (W/Kg)	0.581
Variation (%)	-1.050
Horizontal validation criteria: minimum distance (mm)	-1.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	74.807207

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.768	0.602	0.450	0.342	0.262	0.201	0.154



F. 3D Image





System Performance Check Data (835MHz)

Type: Phone measurement (Complete)

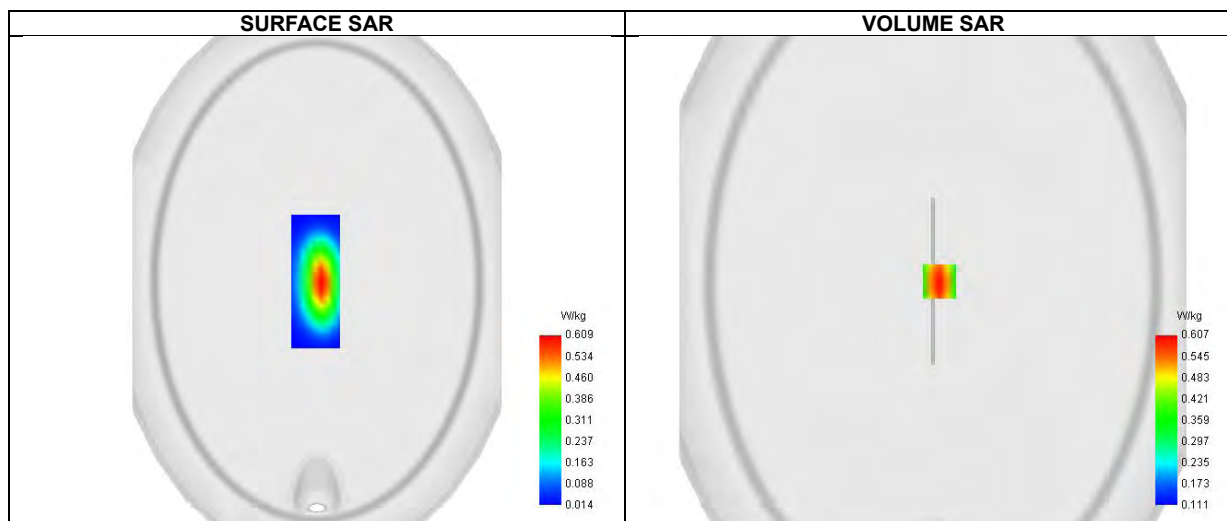
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2024-11-22

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW835
Channels	Middle
Signal	CW
Frequency (MHz)	835.000
Relative permittivity	41.63
Conductivity (S/m)	0.920
Probe	SN 04/22 EPGO364
ConvF	1.70
Crest factor:	1:1



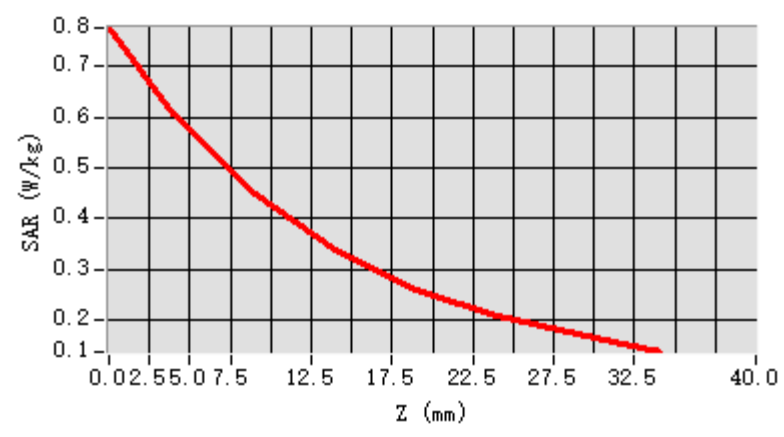
Maximum location: X=6.00, Y=0.00 ; SAR Peak: 0.78 W/kg

D. SAR 1g & 10g

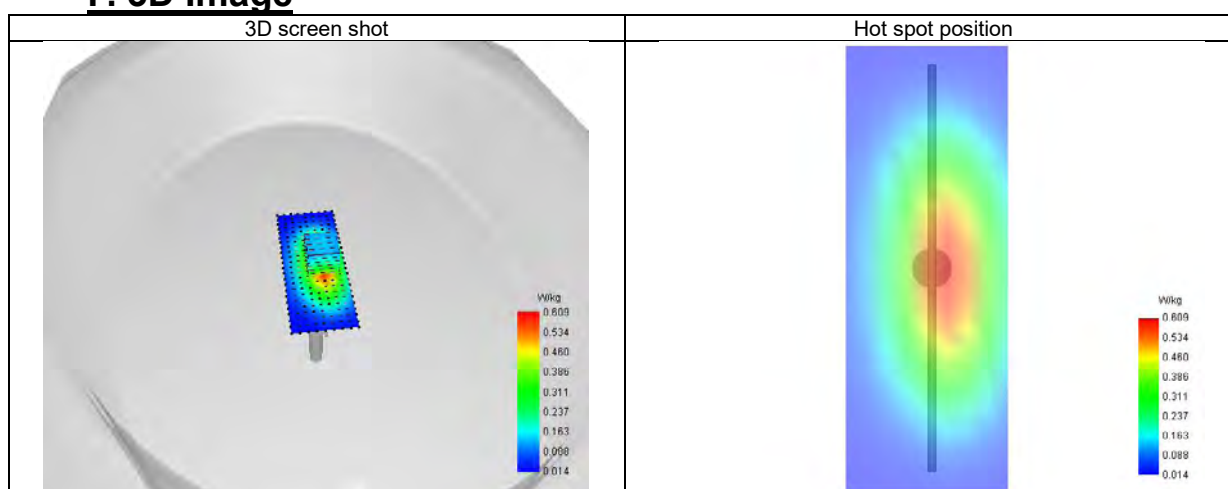
SAR 10g (W/Kg)	0.412
SAR 1g (W/Kg)	0.579
Variation (%)	-1.120
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	73.679469

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.776	0.607	0.447	0.337	0.259	0.208	0.171



F. 3D Image





System Performance Check Data (1800MHz)

Type: Phone measurement (Complete)

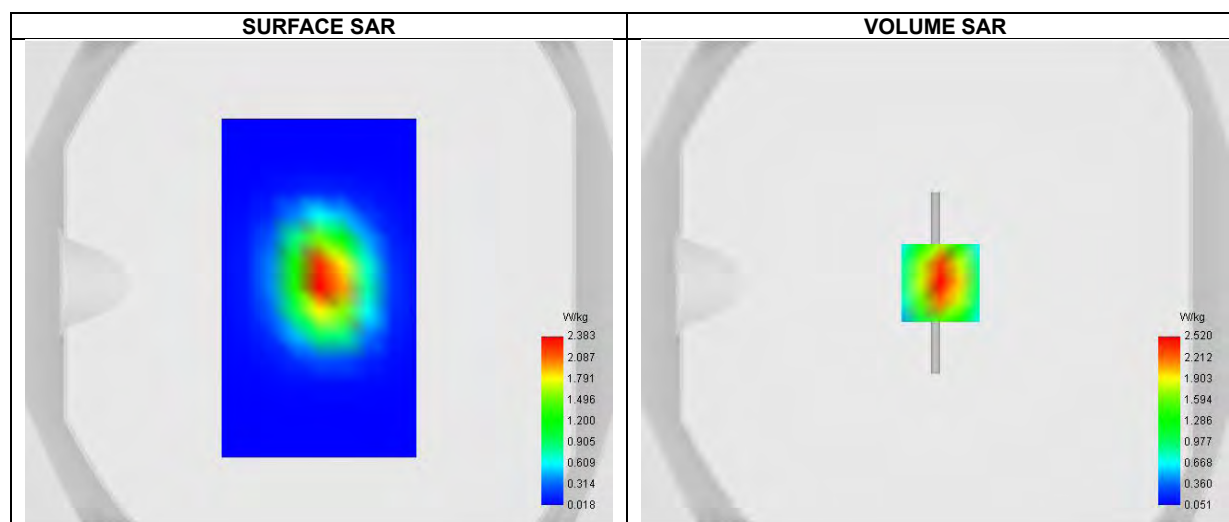
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2024-11-23

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW1800
Channels	Middle
Signal	CW
Frequency (MHz)	1800.000
Relative permittivity	39.73
Conductivity (S/m)	1.38
Probe	SN 04/22 EPGO364
ConvF	1.91
Crest factor:	1:1



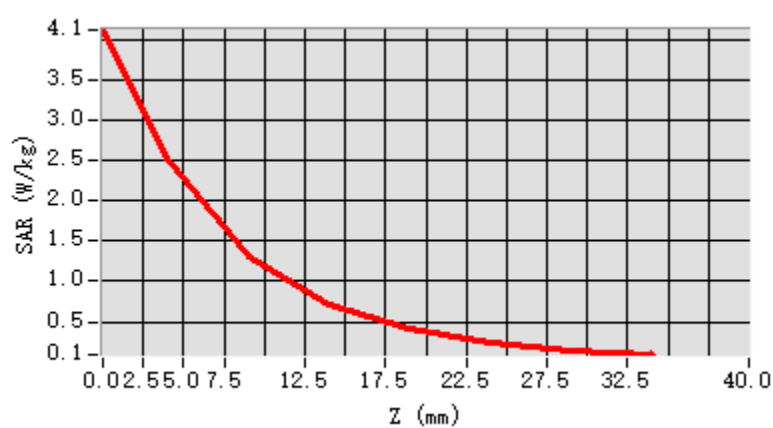
Maximum location: X=2.00, Y=0.00 ; SAR Peak: 4.11 W/kg

D. SAR 1g & 10g

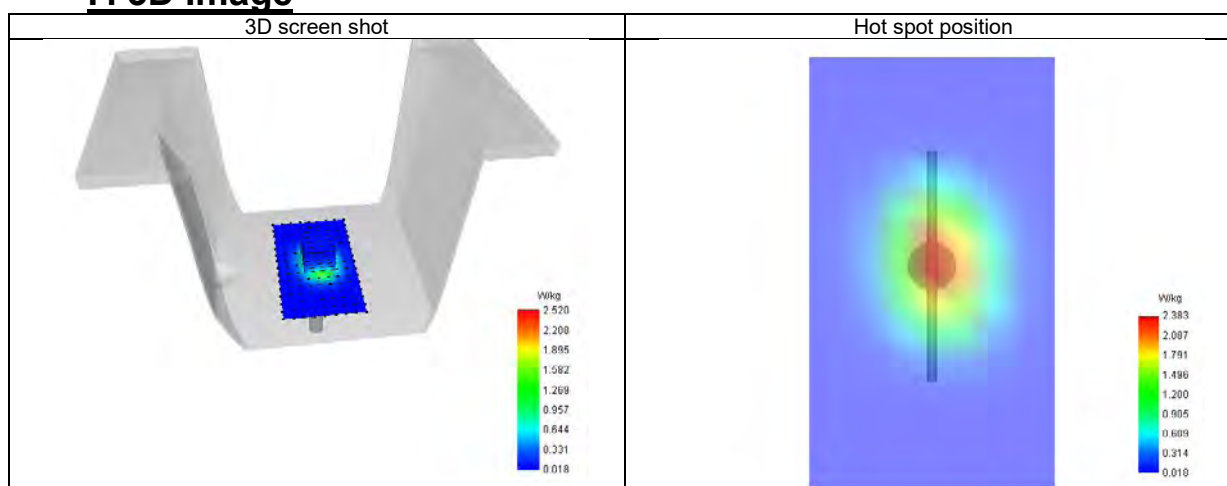
SAR 10g (W/Kg)	1.191
SAR 1g (W/Kg)	2.362
Variation (%)	-0.970
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	52.369077

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	4.120	2.520	1.320	0.716	0.405	0.236	0.143



F. 3D Image





System Performance Check Data (1800MHz)

Type: Phone measurement (Complete)

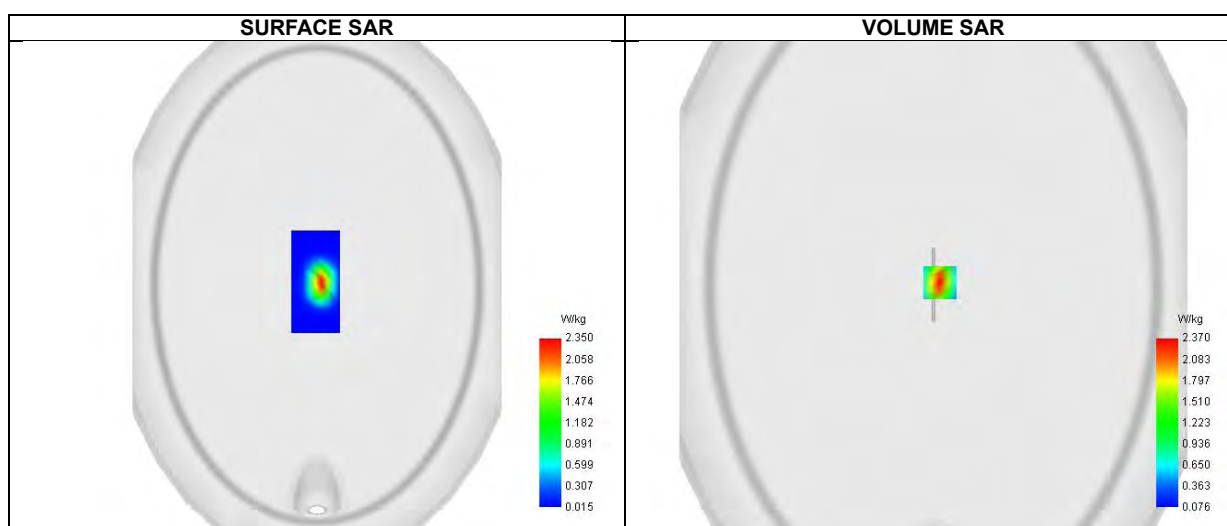
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2024-11-23

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW1800
Channels	Middle
Signal	CW
Frequency (MHz)	1800.000
Relative permittivity	39.73
Conductivity (S/m)	1.38
Probe	SN 04/22 EPGO364
ConvF	1.91
Crest factor:	1:1



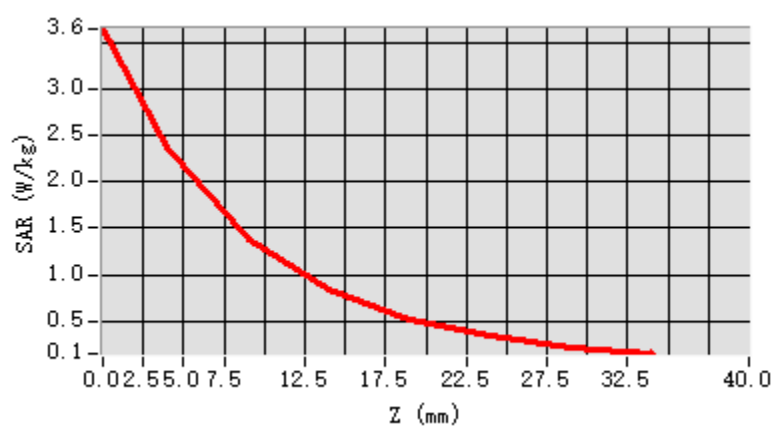
Maximum location: X=6.00, Y=2.00 ; SAR Peak: 3.62 W/kg

D. SAR 1g & 10g

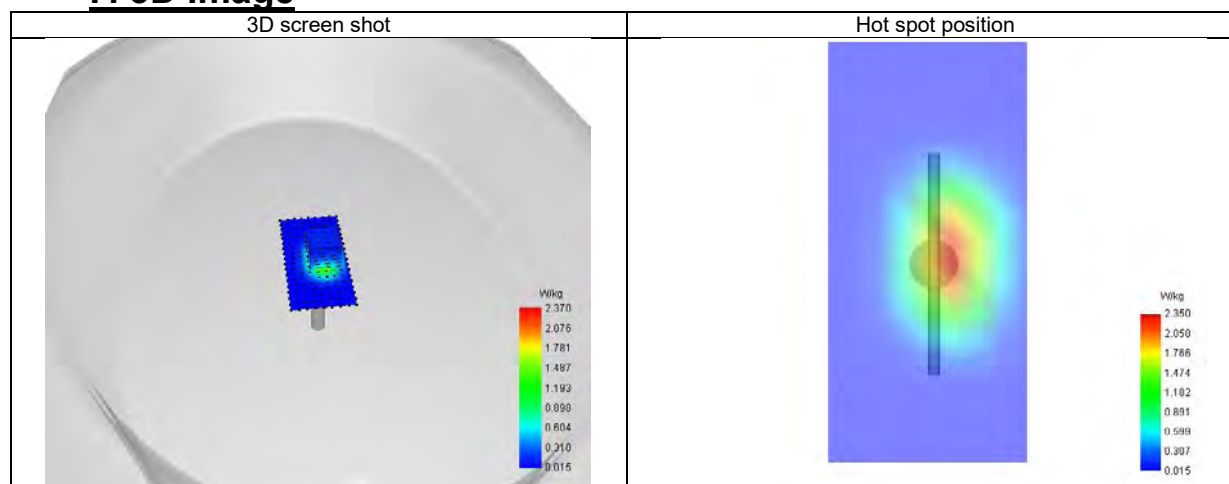
SAR 10g (W/Kg)	1.205
SAR 1g (W/Kg)	2.409
Variation (%)	-1.380
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	57.973354

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	3.643	2.370	1.374	0.832	0.521	0.334	0.220



F. 3D Image





System Performance Check Data (1900MHz)

Type: Phone measurement (Complete)

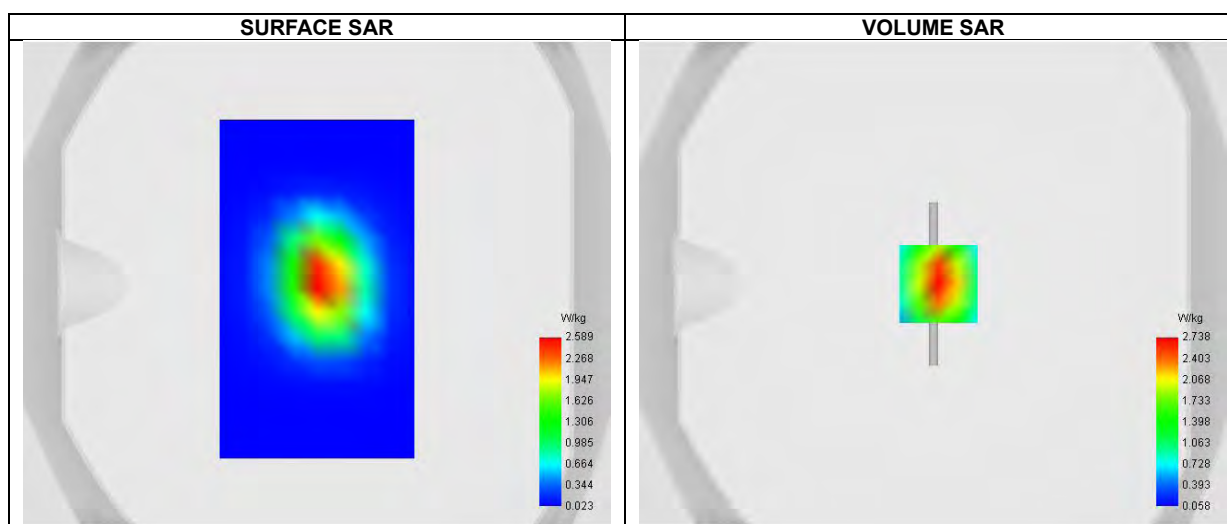
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2024-11-24

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW1900
Channels	Middle
Signal	CW
Frequency (MHz)	1900.000
Relative permittivity	39.28
Conductivity (S/m)	1.37
Probe	SN 04/22 EPG0364
ConvF	2.24
Crest factor:	1:1



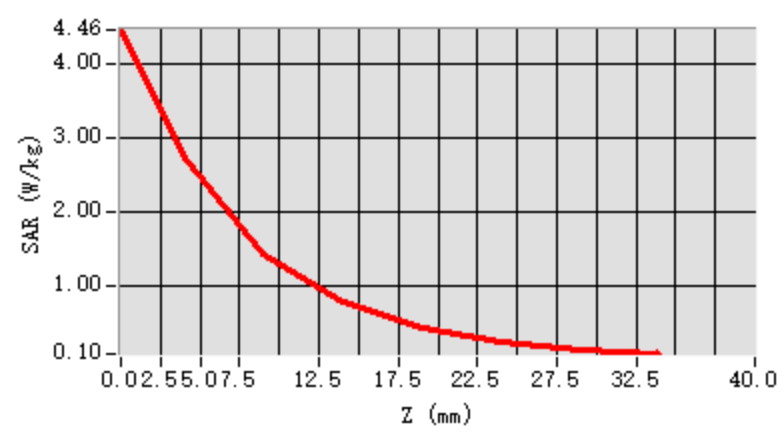
Maximum location: X=2.00, Y=0.00 ; SAR Peak: 4.45 W/kg

D. SAR 1g & 10g

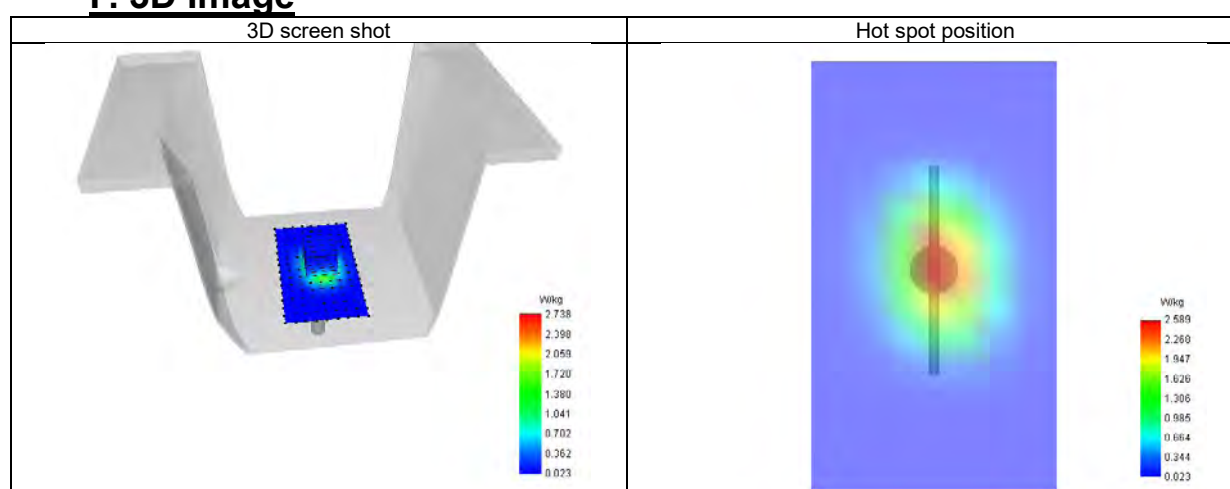
SAR 10g (W/Kg)	1.287
SAR 1g (W/Kg)	2.558
Variation (%)	-1.930
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	52.518396

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	4.463	2.738	1.438	0.786	0.443	0.256	0.156



F. 3D Image





System Performance Check Data (1900MHz)

Type: Phone measurement (Complete)

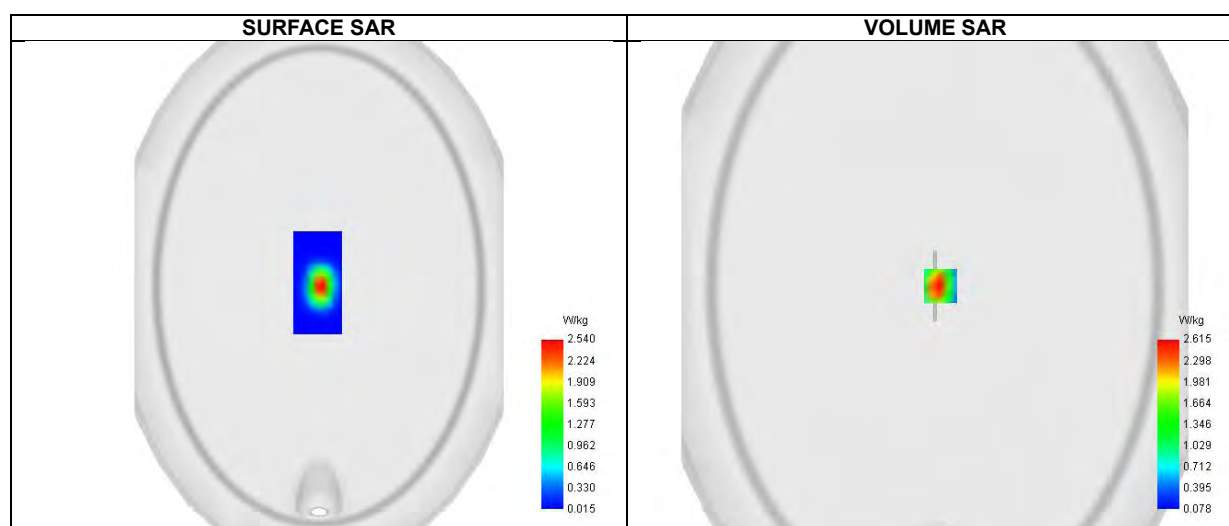
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2024-11-24

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW1900
Channels	Middle
Signal	CW
Frequency (MHz)	1900.000
Relative permittivity	39.28
Conductivity (S/m)	1.37
Probe	SN 04/22 EPGO364
ConvF	2.24
Crest factor:	1:1



Maximum location: X=5.00, Y=0.00 ; SAR Peak: 4.09 W/kg

D. SAR 1g & 10g

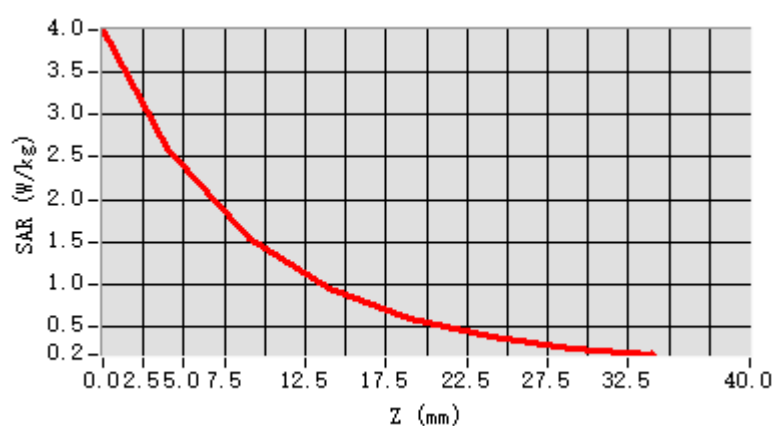
SAR 10g (W/Kg)	1.347
SAR 1g (W/Kg)	2.526
Variation (%)	-1.020
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	58.381247

E. Z Axis Scan

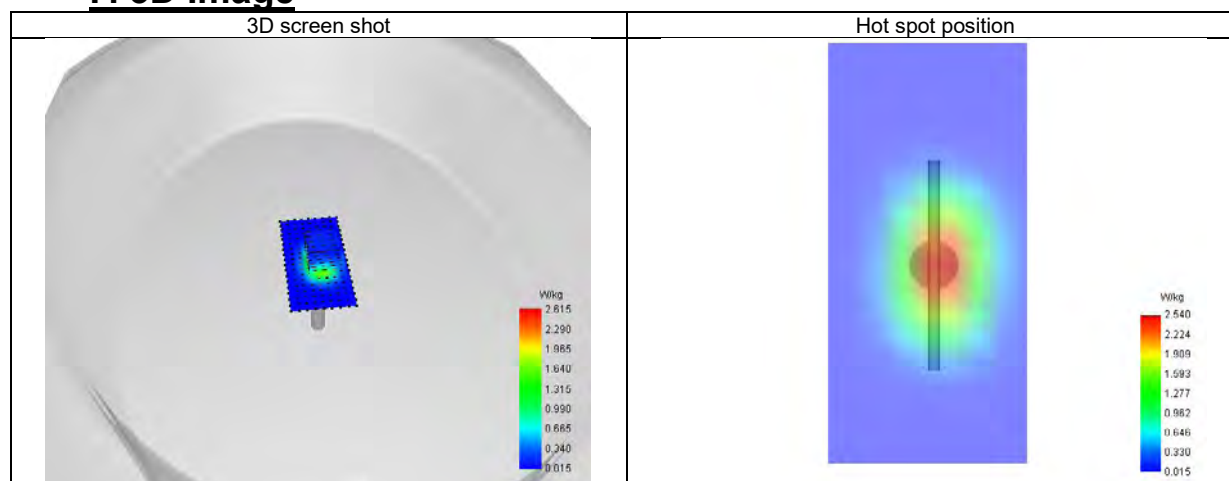
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
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SAR (W/Kg)	4.004	2.615	1.527	0.938	0.587	0.373	0.242
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F. 3D Image





System Performance Check Data (2600MHz)

Type: Phone measurement (Complete)

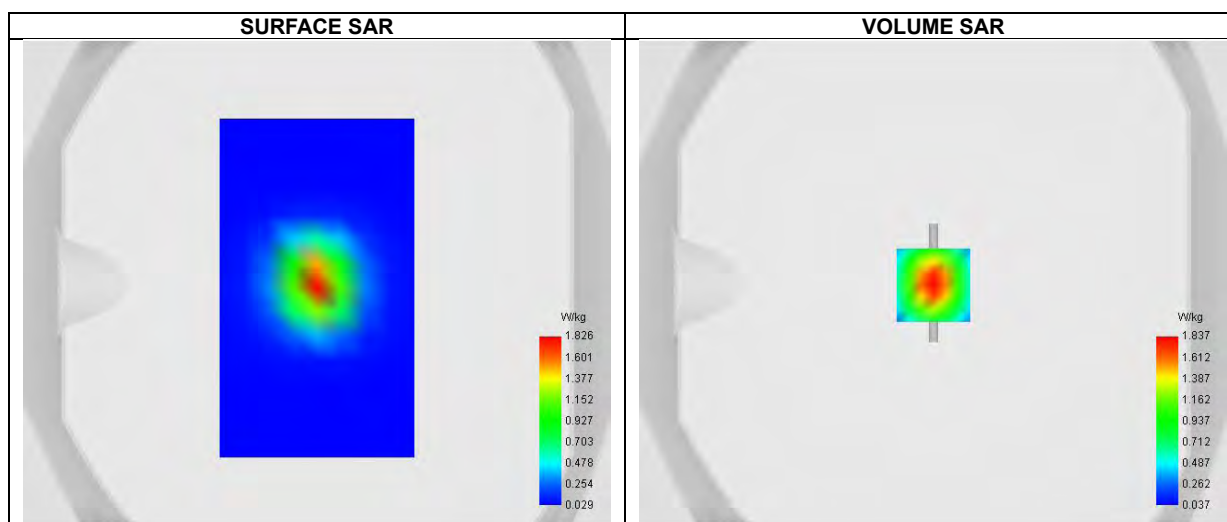
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2024-11-25

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW2600
Channels	Middle
Signal	CW
Frequency (MHz)	2600.000
Relative permittivity	38.8
Conductivity (S/m)	1.95
Probe	SN 04/22 EPGO364
ConvF	2.35
Crest factor:	1:1



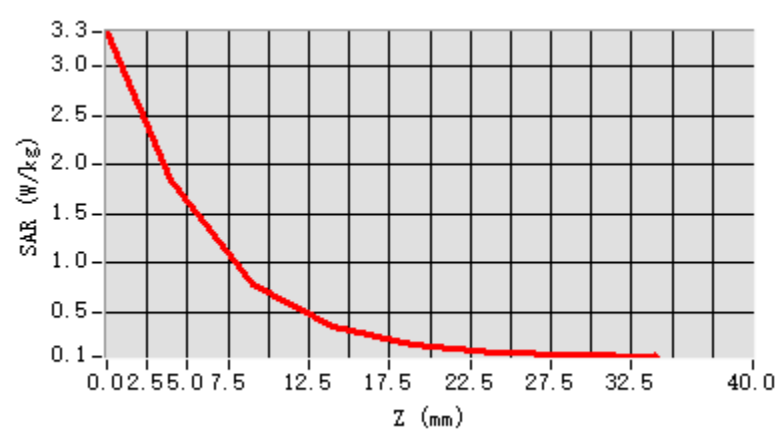
Maximum location: X=0.00, Y=-1.00 ; SAR Peak: 3.30 W/kg

D. SAR 1g & 10g

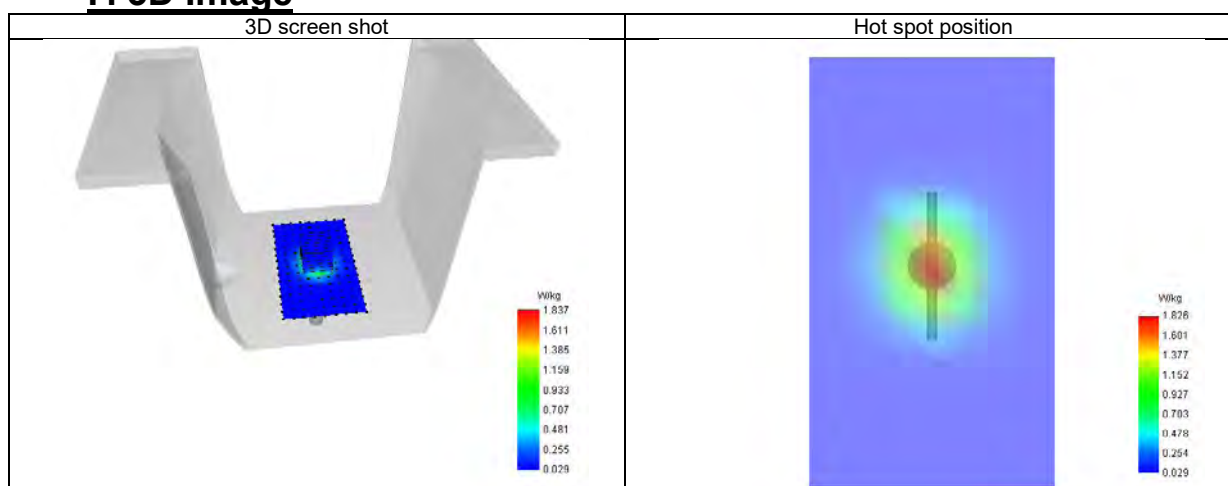
SAR 10g (W/Kg)	0.744
SAR 1g (W/Kg)	1.698
Variation (%)	-2.270
Horizontal validation criteria: minimum distance (mm)	14.142136
Vertical validation criteria: SAR ratio M2/M1 (%)	43.154577

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	3.343	1.837	0.793	0.363	0.177	0.100	0.065



F. 3D Image





System Performance Check Data (2600MHz)

Type: Phone measurement (Complete)

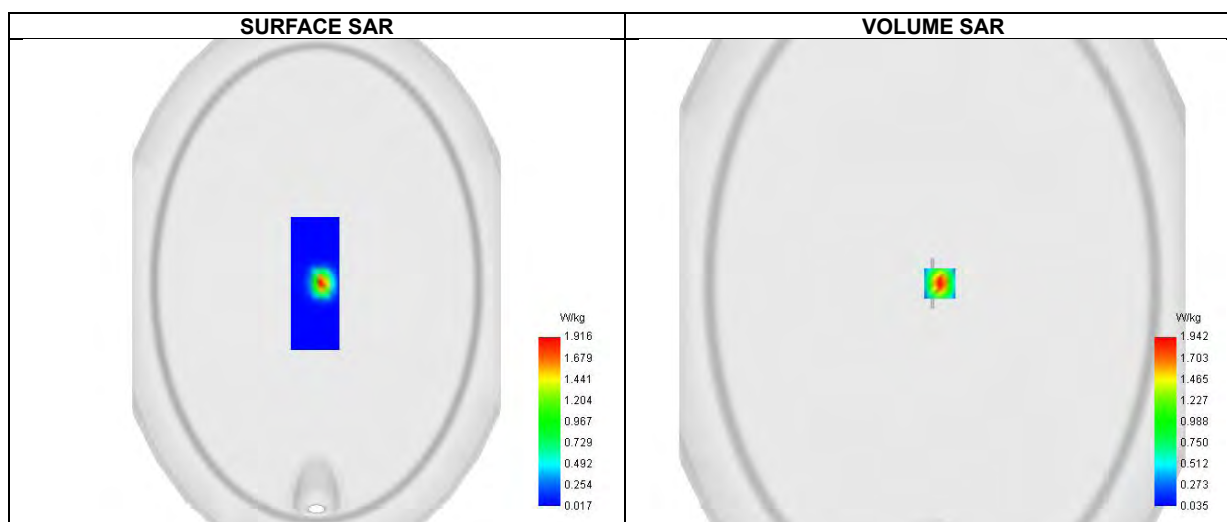
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2024-11-25

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW2600
Channels	Middle
Signal	CW
Frequency (MHz)	2600.000
Relative permittivity	38.8
Conductivity (S/m)	1.95
Probe	SN 04/22 EPGO364
ConvF	2.35
Crest factor:	1:1



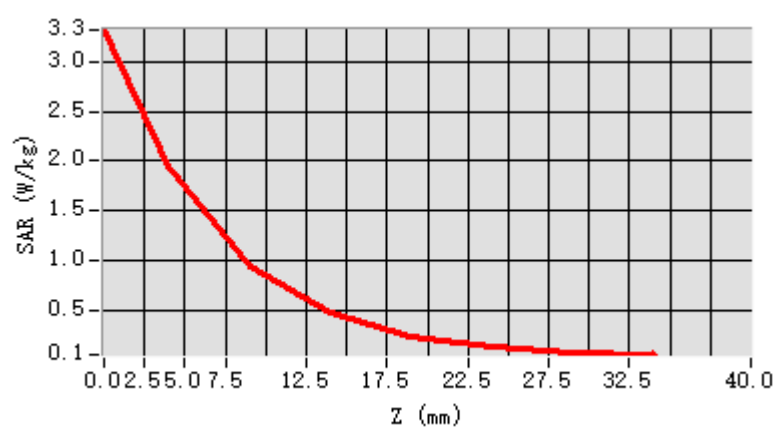
Maximum location: X=7.00, Y=0.00 ; SAR Peak: 3.26 W/kg

D. SAR 1g & 10g

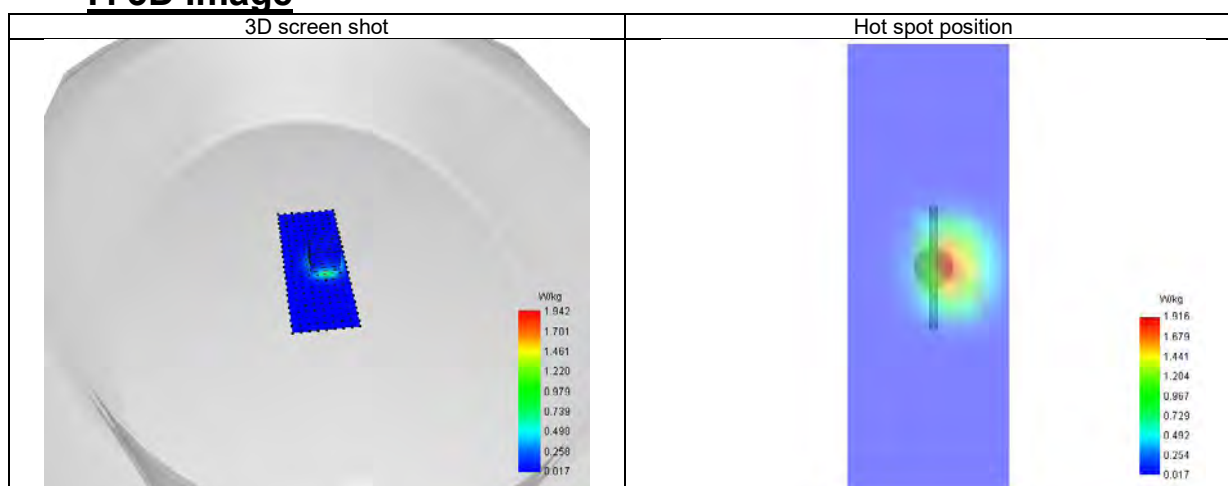
SAR 10g (W/Kg)	0.781
SAR 1g (W/Kg)	1.742
Variation (%)	1.590
Horizontal validation criteria: minimum distance (mm)	10.002634
Vertical validation criteria: SAR ratio M2/M1 (%)	48.330978

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	3.315	1.927	0.932	0.463	0.229	0.127	0.079



F. 3D Image

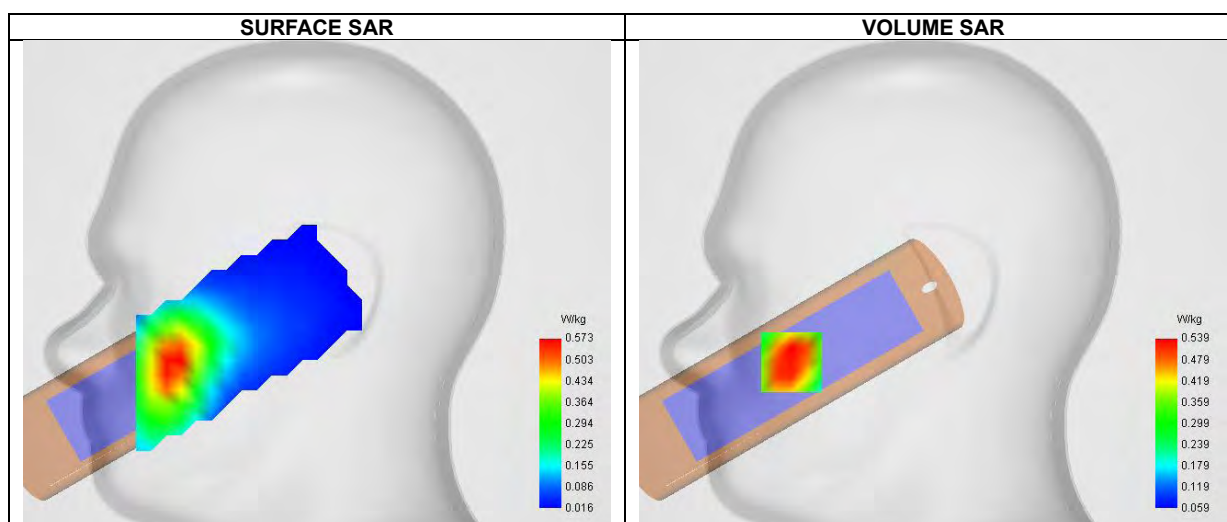




Appendix B. SAR Test Plots

Plot 1:

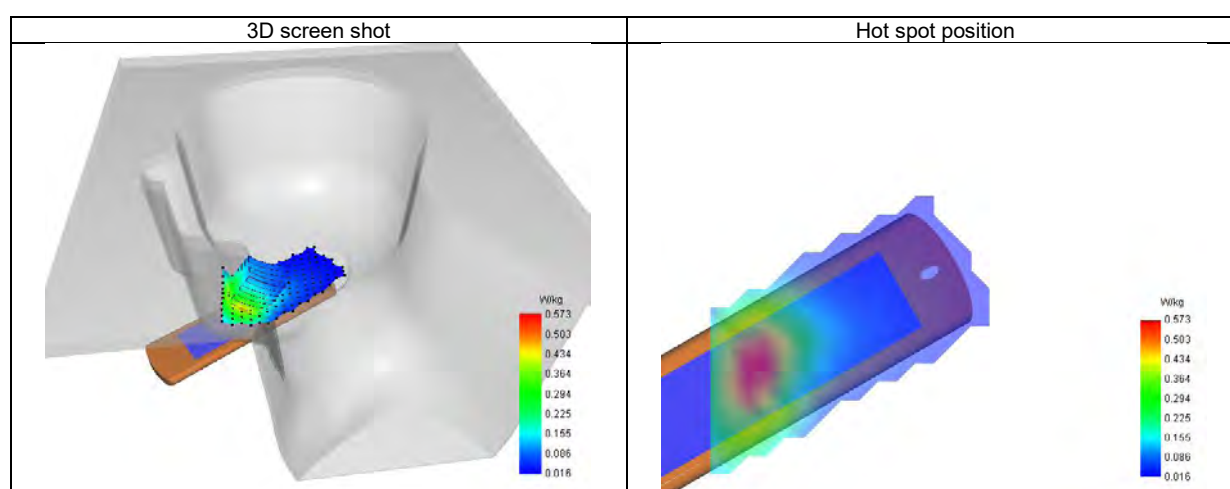
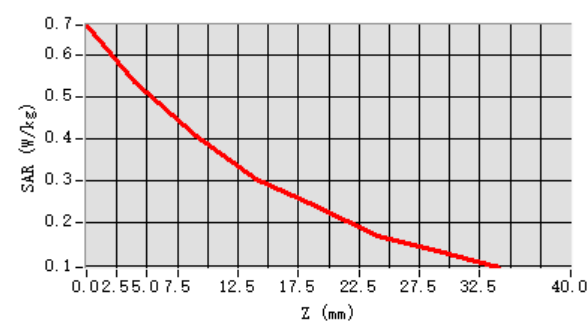
Test Date	2024-11-22
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	GSM 850
Channels	Middle
Frequency	836.6
ConvF	1.70
Relative permittivity	40.22
Conductivity (S/m)	0.93



Maximum location: X=-75.00, Y=-41.00 ; SAR Peak: 0.73 W/kg

SAR 10g (W/Kg)	0.304
SAR 1g (W/Kg)	0.560
Variation (%)	-2.400
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	76.406076

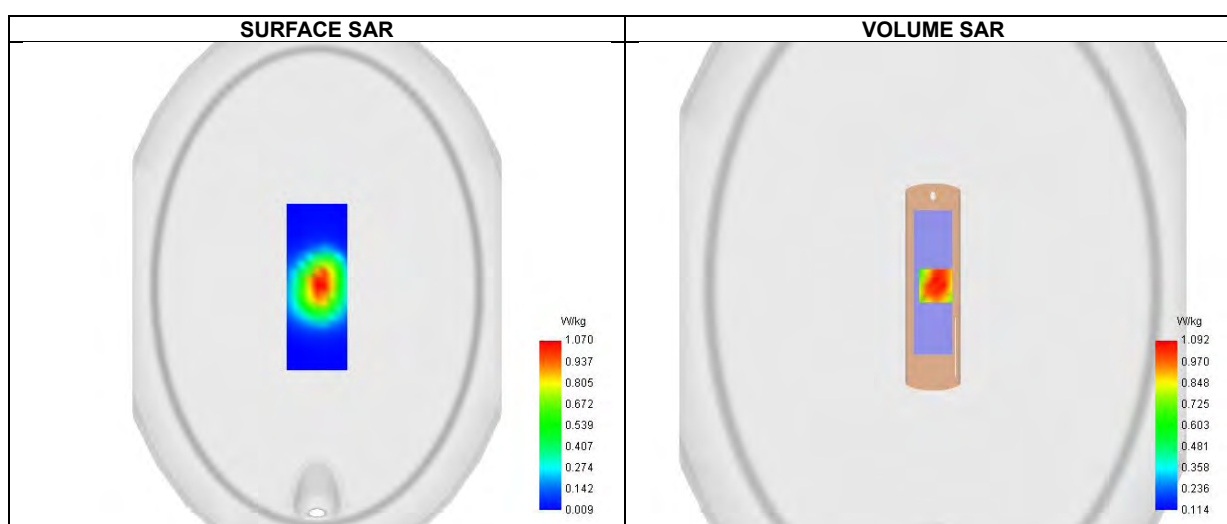
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.673	0.539	0.409	0.305	0.241	0.169	0.133





Plot 2:

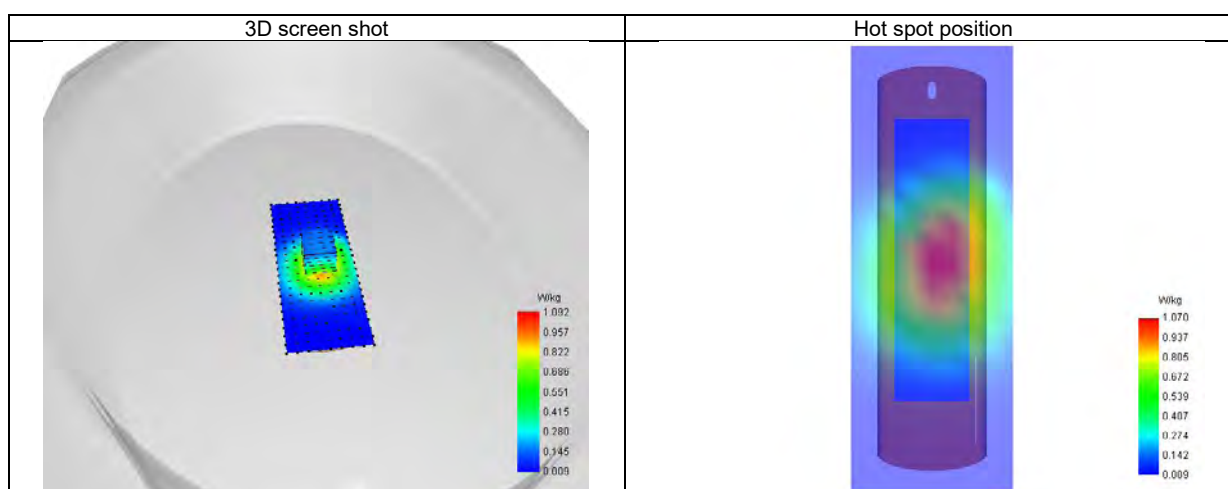
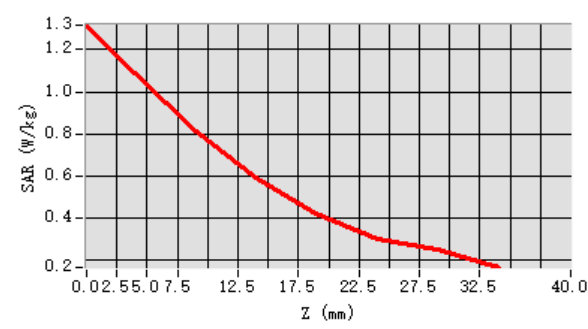
Test Date	2024-11-22
Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	BodyBack
Band	GSM 850
Channels	Middle
Frequency	836.6
ConvF	1.70
Relative permittivity	40.22
Conductivity (S/m)	0.93



Maximum location: X=3.00, Y=1.00 ; SAR Peak: 1.52 W/kg

SAR 10g (W/Kg)	0.736
SAR 1g (W/Kg)	1.063
Variation (%)	-2.420
Horizontal validation criteria: minimum distance (mm)	-1.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	69.088233

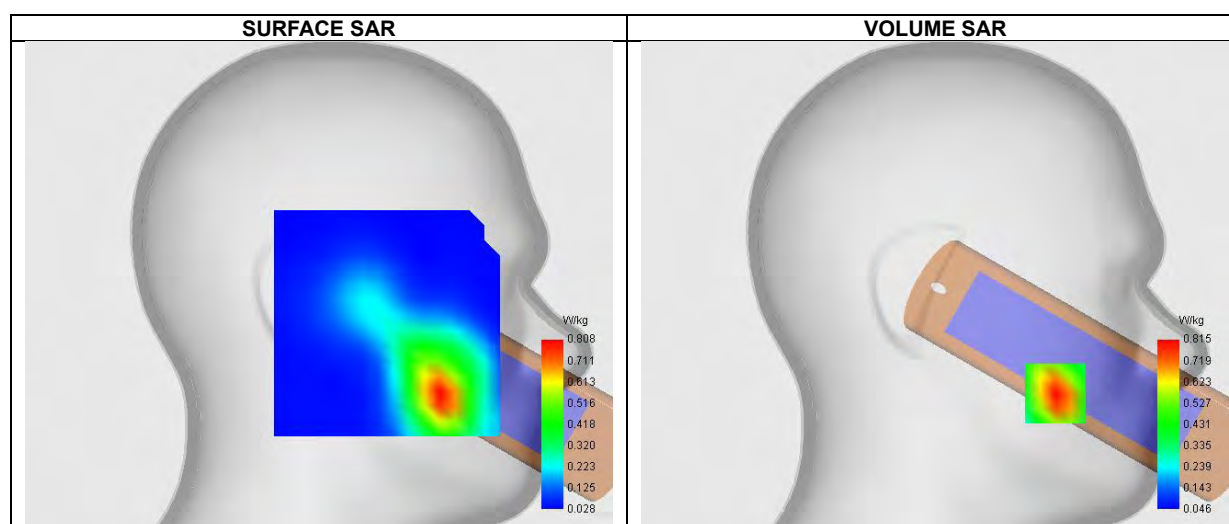
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.316	1.092	0.813	0.589	0.420	0.303	0.248





Plot 3:

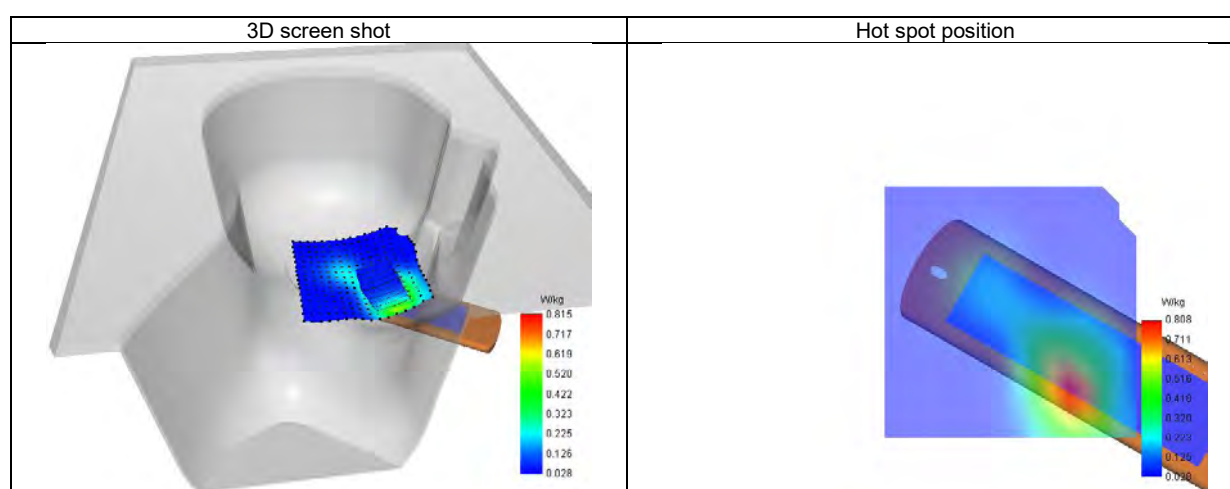
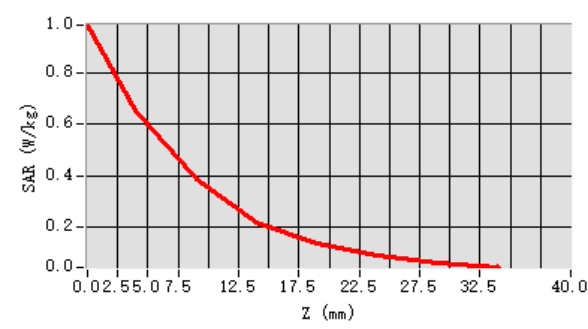
Test Date	2024-11-24
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	PCS1900
Channels	Middle
Signal	TDMA (Crest factor: 8.0)
Frequency	1880
ConvF	2.24
Relative permittivity	39.60
Conductivity (S/m)	1.36



Maximum location: X=-59.00, Y=-66.00 ; SAR Peak: 1.01 W/kg

SAR 10g (W/Kg)	0.320
SAR 1g (W/Kg)	0.608
Variation (%)	-2.390
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	58.800627

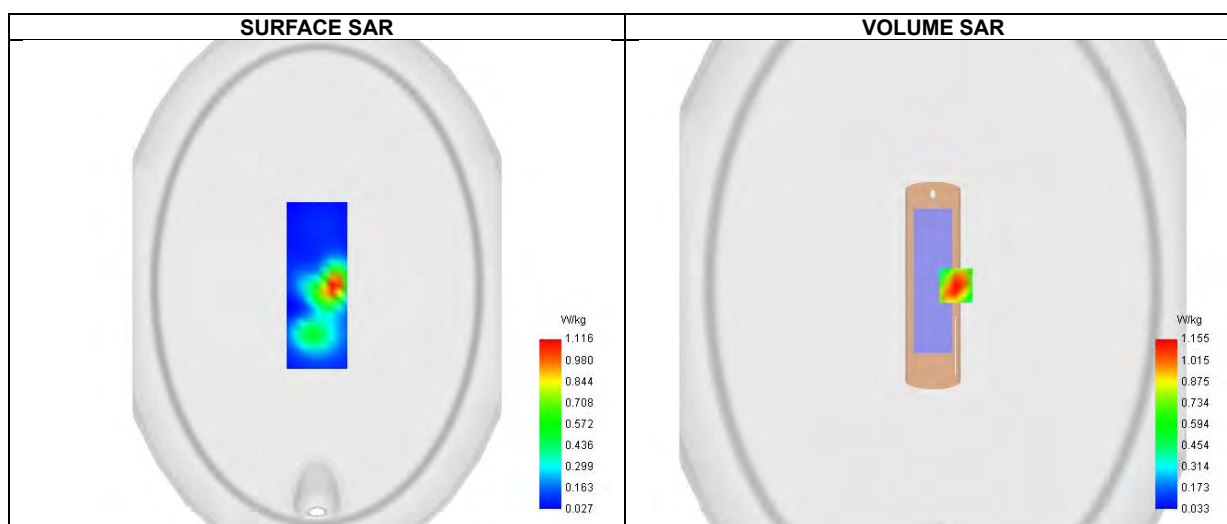
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.987	0.655	0.385	0.214	0.135	0.087	0.059





Plot 4:

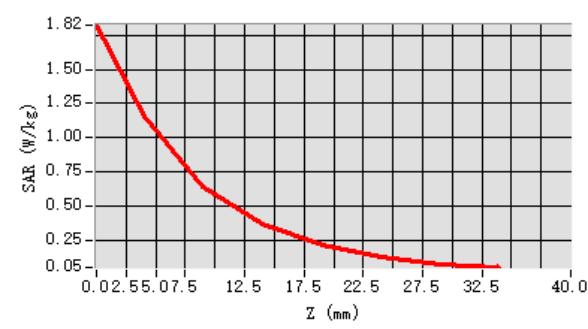
Test Date	2024-11-24
Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	BodyBack
Band	PCS1900
Channels	Middle
Signal	TDMA (Crest factor: 8.0)
Frequency	1880
ConvF	2.24
Relative permittivity	39.60
Conductivity (S/m)	1.36



Maximum location: X=22.00, Y=0.00 ; SAR Peak: 1.82 W/kg

SAR 10g (W/Kg)	0.618
SAR 1g (W/Kg)	1.152
Variation (%)	-1.840
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	55.395720

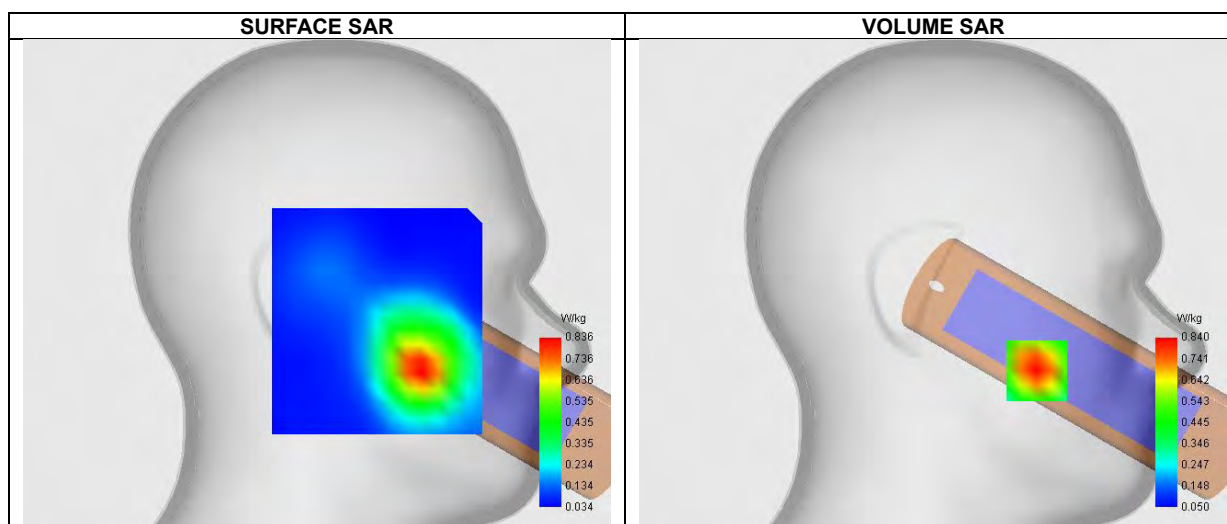
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.823	1.155	0.640	0.369	0.216	0.132	0.080





Plot 5:

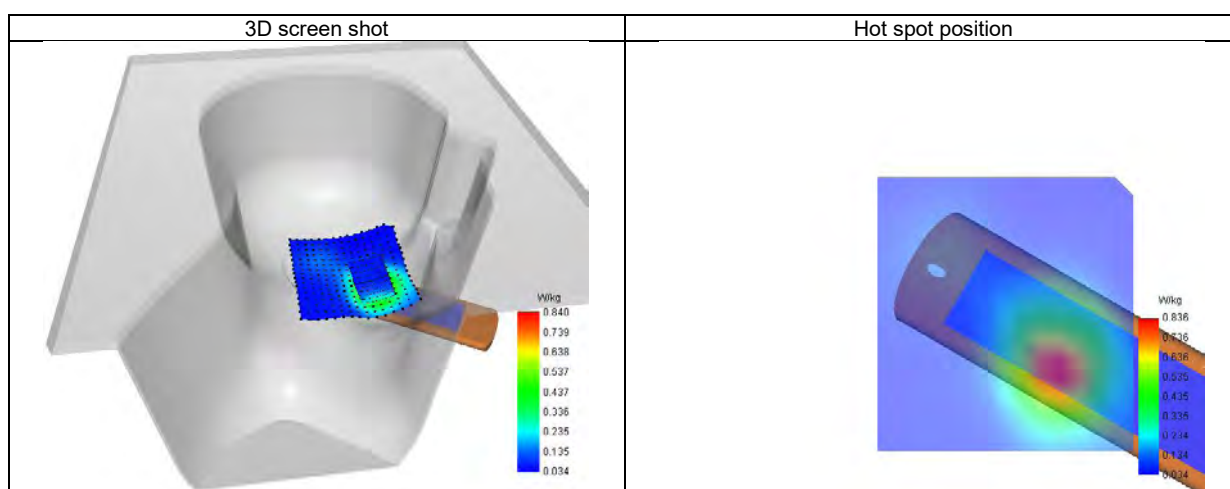
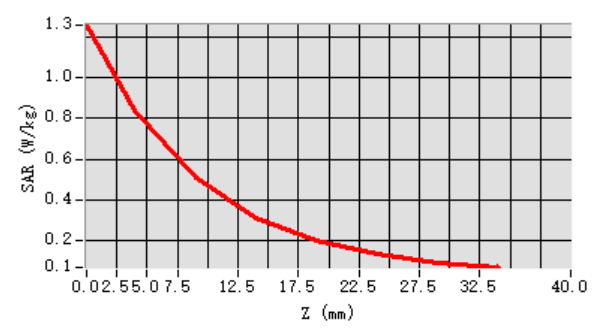
Test Date	2024-11-24
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	WCDMA Band II
Channels	Middle
Signal	WCDMA (Crest factor: 1.0)
Frequency	1852.4
ConvF	2.24
Relative permittivity	40.84
Conductivity (S/m)	1.36



Maximum location: X=-55.00, Y=-46.00 ; SAR Peak: 1.25 W/kg

SAR 10g (W/Kg)	0.474
SAR 1g (W/Kg)	0.780
Variation (%)	-2.890
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	60.470601

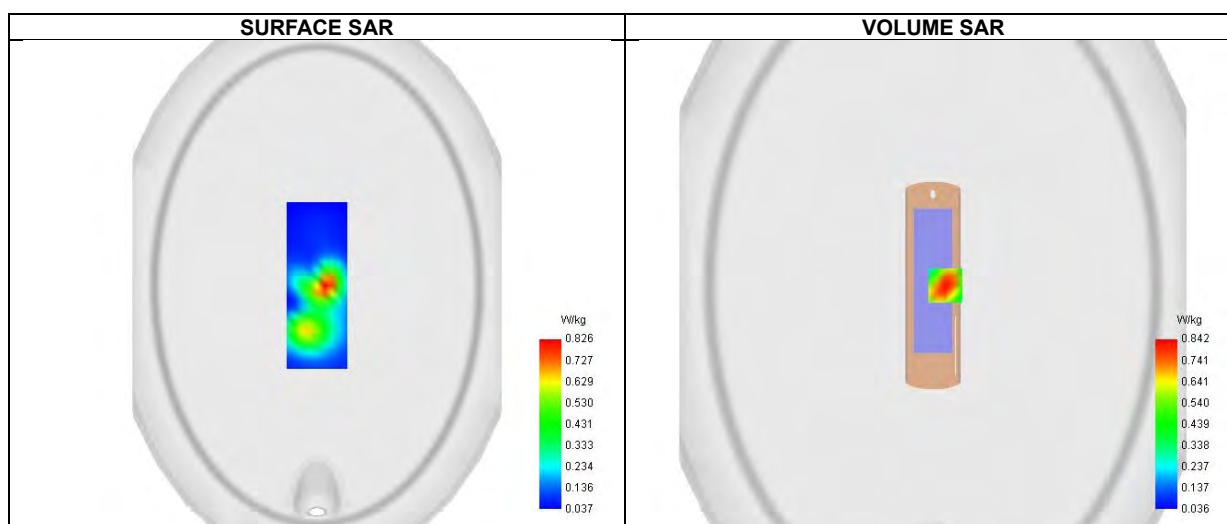
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.255	0.840	0.508	0.312	0.201	0.136	0.090





Plot 6:

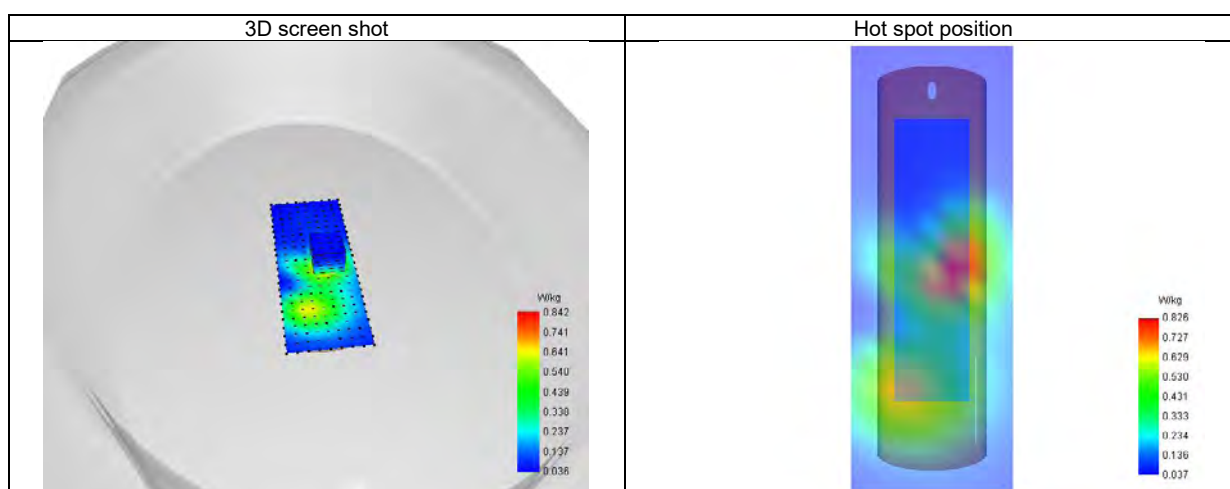
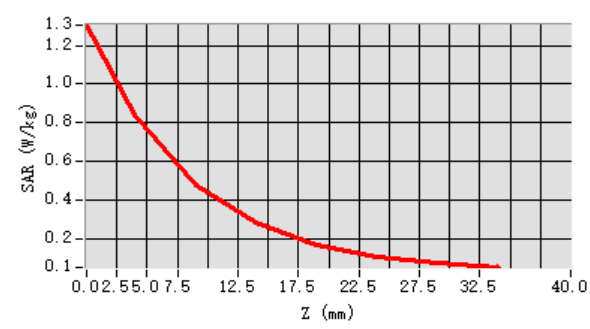
Test Date	2024-11-24
Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	WCDMA band II
Channels	Low
Signal	WCDMA (Crest factor: 1.0)
Frequency	1852.4
ConvF	2.24
Relative permittivity	40.84
Conductivity (S/m)	1.36



Maximum location: X=12.00, Y=0.00 ; SAR Peak: 1.30 W/kg

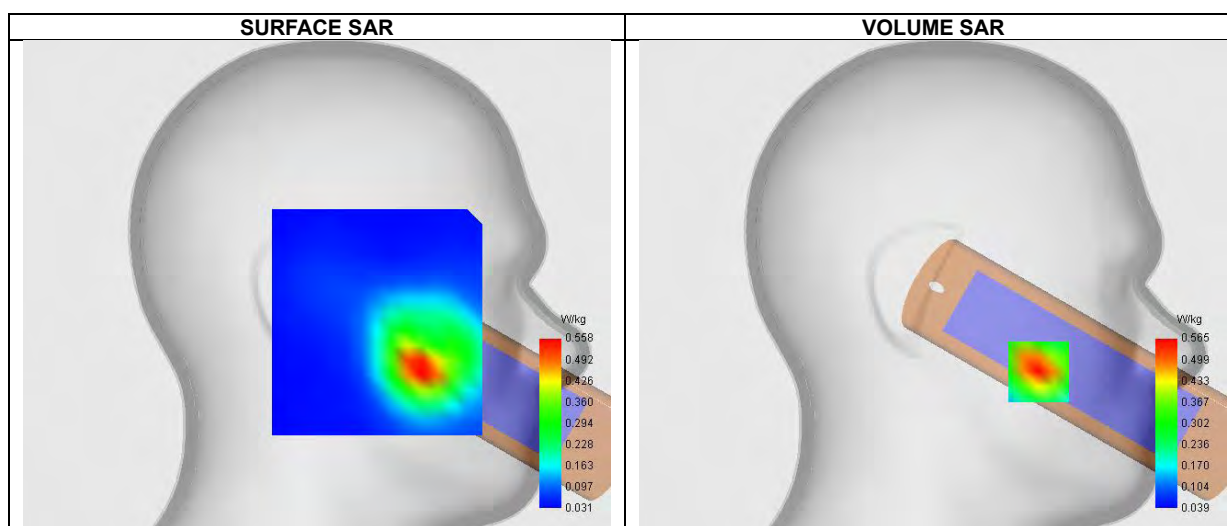
SAR 10g (W/Kg)	0.437
SAR 1g (W/Kg)	0.844
Variation (%)	-1.740
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	56.922588

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.304	0.842	0.479	0.284	0.172	0.111	0.074



Plot 7:

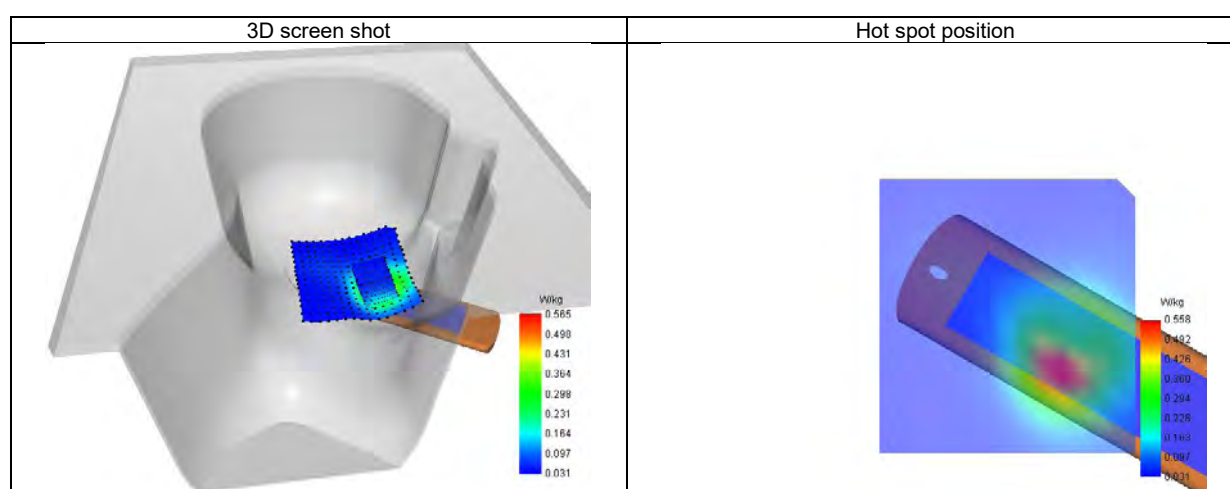
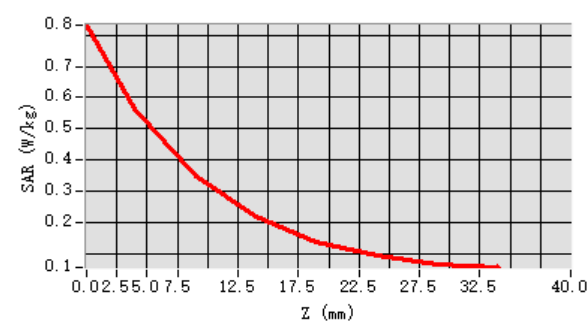
Test Date	2024-12-23
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	WCDMA band IV
Channels	Middle
Signal	WCDMA (Crest factor: 1.0)
Frequency	1732.4
ConvF	1.91
Relative permittivity	40.27
Conductivity (S/m)	1.35



Maximum location: X=-56.00, Y=-46.00 ; SAR Peak: 0.85 W/kg

SAR 10g (W/Kg)	0.315
SAR 1g (W/Kg)	0.542
Variation (%)	-1.530
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	61.432056

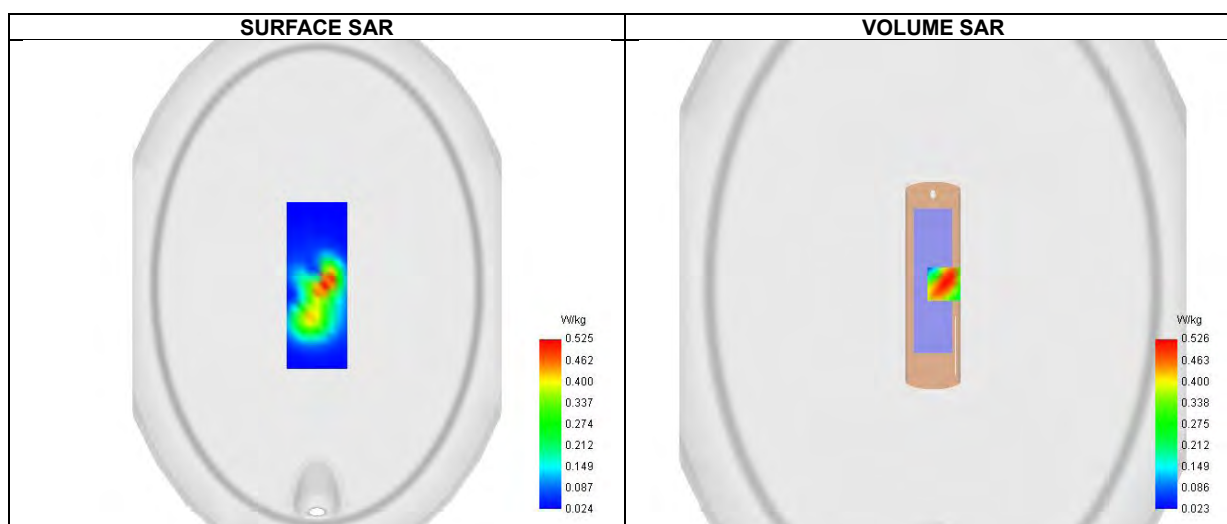
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.832	0.565	0.347	0.218	0.140	0.095	0.067





Plot 8:

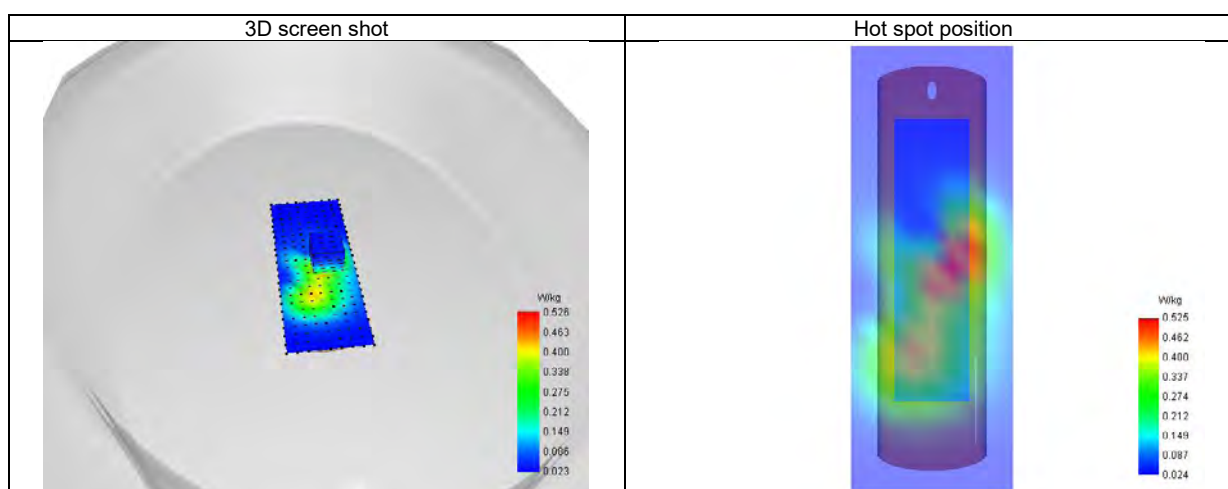
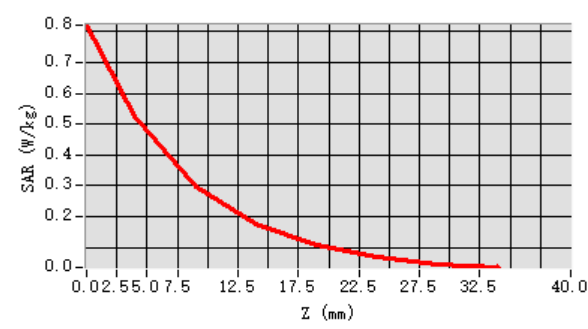
Test Date	2024-12-23
Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	WCDMA band IV
Channels	Middle
Signal	WCDMA (Crest factor: 1.0)
Frequency	1732.4
ConvF	1.91
Relative permittivity	40.27
Conductivity (S/m)	1.35



Maximum location: X=11.00, Y=1.00 ; SAR Peak: 0.84 W/kg

SAR 10g (W/Kg)	0.295
SAR 1g (W/Kg)	0.516
Variation (%)	-3.250
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	56.662950

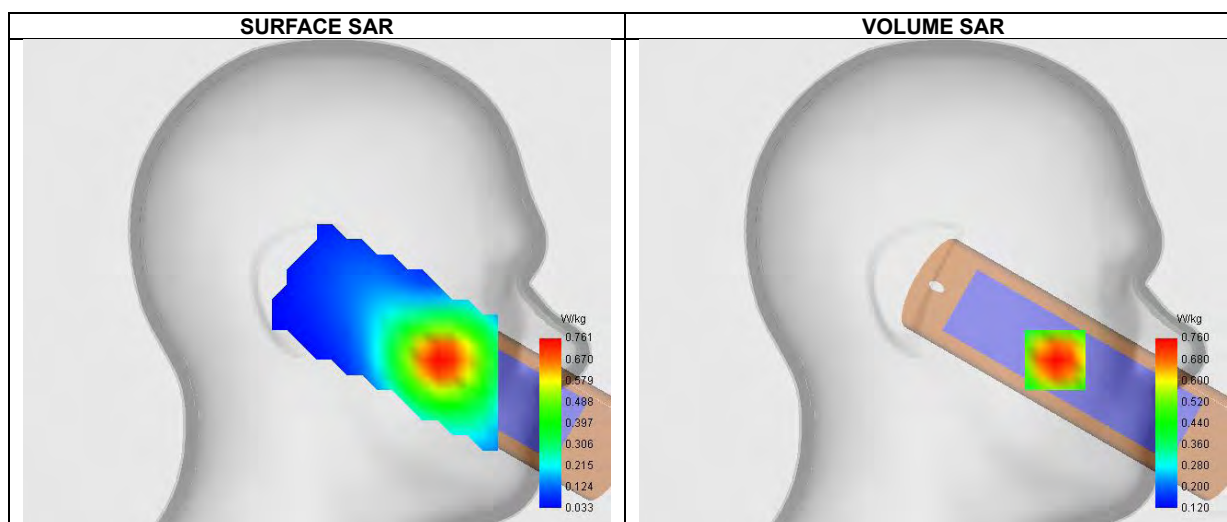
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.821	0.526	0.298	0.175	0.108	0.070	0.047





Plot 9:

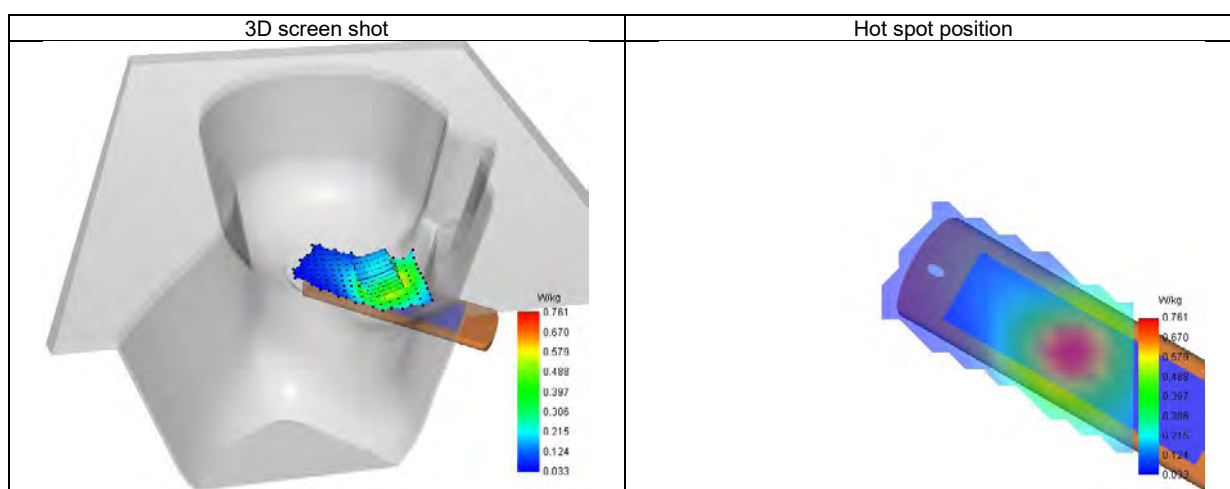
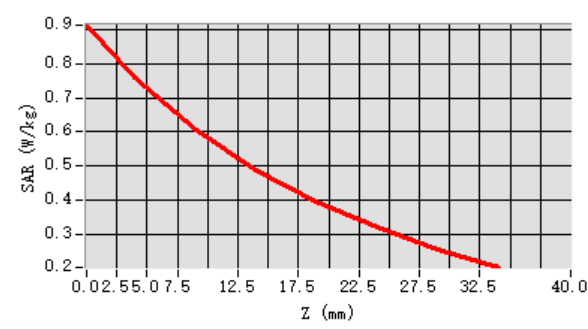
Test Date	2024-11-22
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	WCDMA Band V
Channels	Middle
Signal	WCDMA (Crest factor: 1.0)
Frequency	836.4
ConvF	1.70
Relative permittivity	40.78
Conductivity (S/m)	0.913



Maximum location: X=-65.00, Y=-40.00 ; SAR Peak: 0.92 W/kg

SAR 10g (W/Kg)	0.553
SAR 1g (W/Kg)	0.769
Variation (%)	0.500
Horizontal validation criteria: minimum distance (mm)	24.789111
Vertical validation criteria: SAR ratio M2/M1 (%)	80.066978

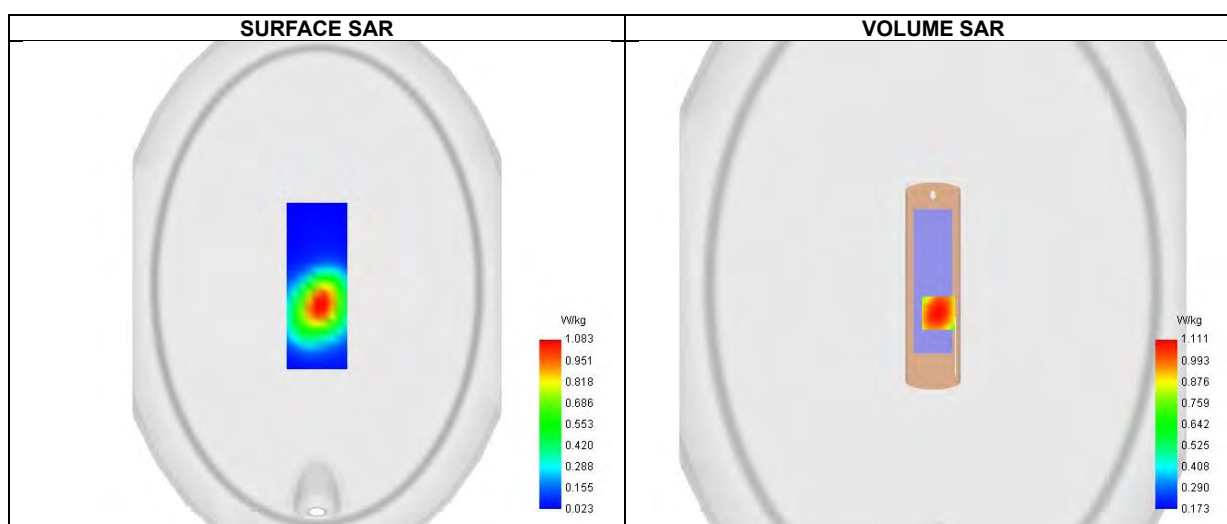
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.912	0.760	0.609	0.490	0.396	0.322	0.258





Plot 10:

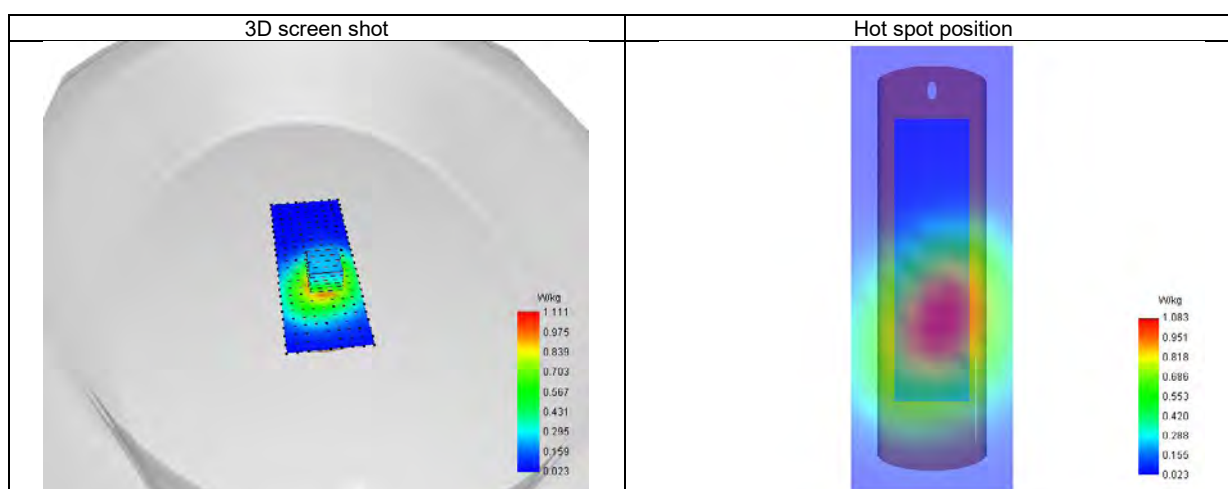
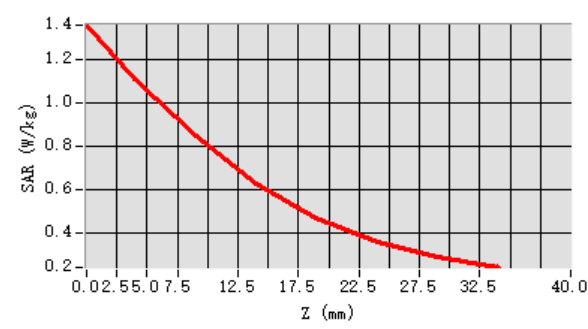
Test Date	2024-11-22
Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	WCDMA Band V
Channels	Low
Frequency	826.4
ConvF	1.70
Relative permittivity	42.72
Conductivity (S/m)	0.91



Maximum location: X=5.00, Y=-26.00 ; SAR Peak: 1.36 W/kg

SAR 10g (W/Kg)	0.771
SAR 1g (W/Kg)	1.079
Variation (%)	-0.720
Horizontal validation criteria: minimum distance (mm)	-1.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	76.035242

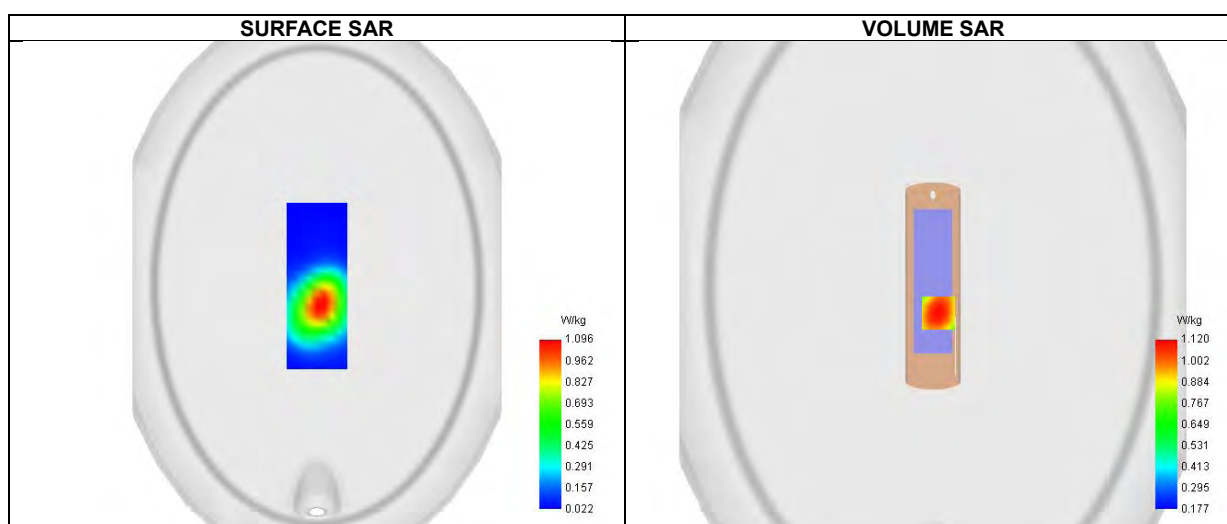
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.354	1.111	0.844	0.626	0.468	0.358	0.289





Plot 11:

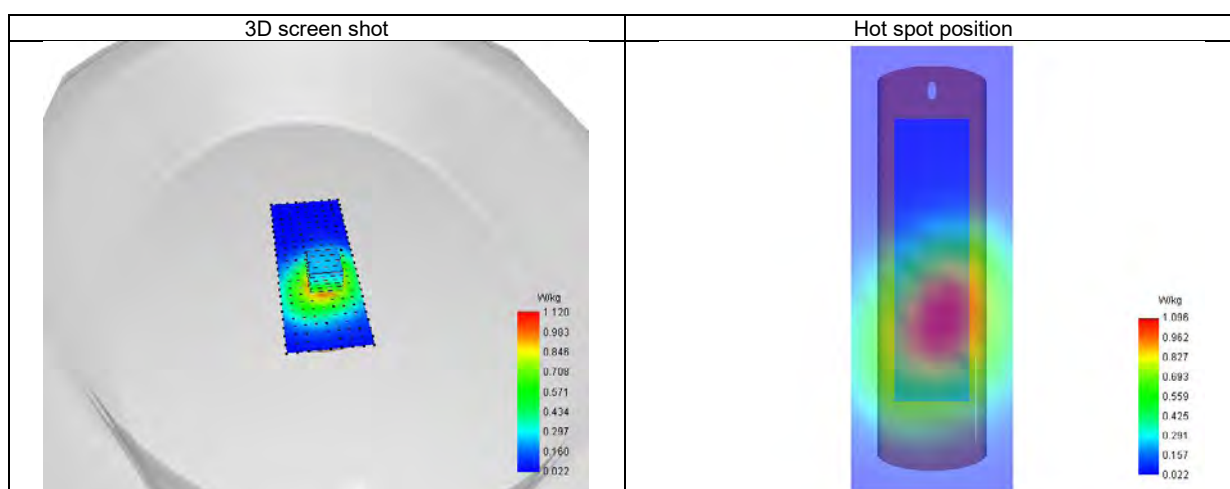
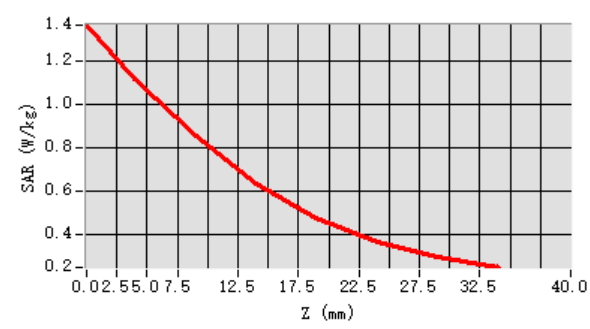
Test Date	2024-11-22
Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	WCDMA Band V
Channels	High
Frequency	846.6
ConvF	1.70
Relative permittivity	39.47
Conductivity (S/m)	0.94



Maximum location: X=5.00, Y=-26.00 ; SAR Peak: 1.38 W/kg

SAR 10g (W/Kg)	0.752
SAR 1g (W/Kg)	1.093
Variation (%)	-2.570
Horizontal validation criteria: minimum distance (mm)	-1.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	76.034602

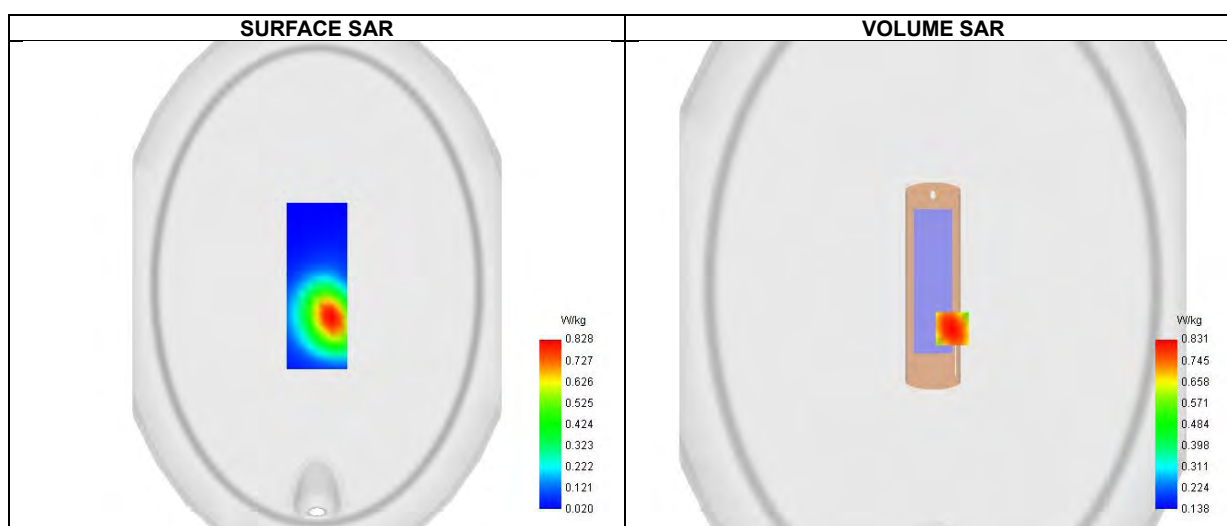
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.368	1.120	0.852	0.635	0.475	0.364	0.293





Plot 12:

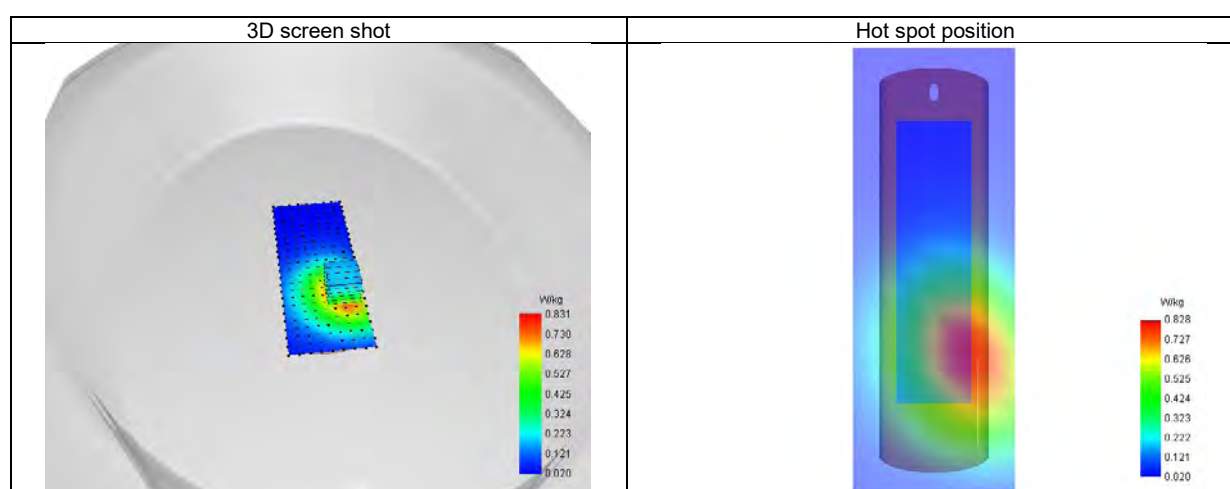
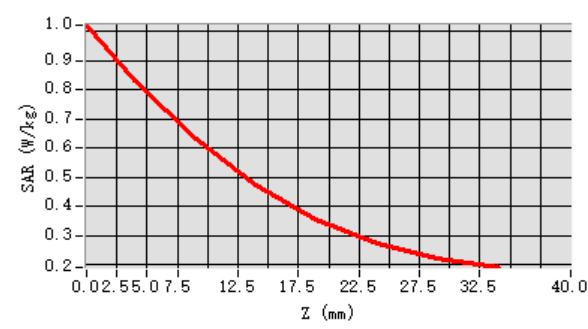
Test Date	2024-11-24
Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE Band 2
Channels	Middle
Frequency	1880
ConvF	2.24
Relative permittivity	39.60
Conductivity (S/m)	1.36



Maximum location: X=19.00, Y=-41.00 ; SAR Peak: 1.03 W/kg

SAR 10g (W/Kg)	0.562
SAR 1g (W/Kg)	0.785
Variation (%)	-3.860
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	75.926983

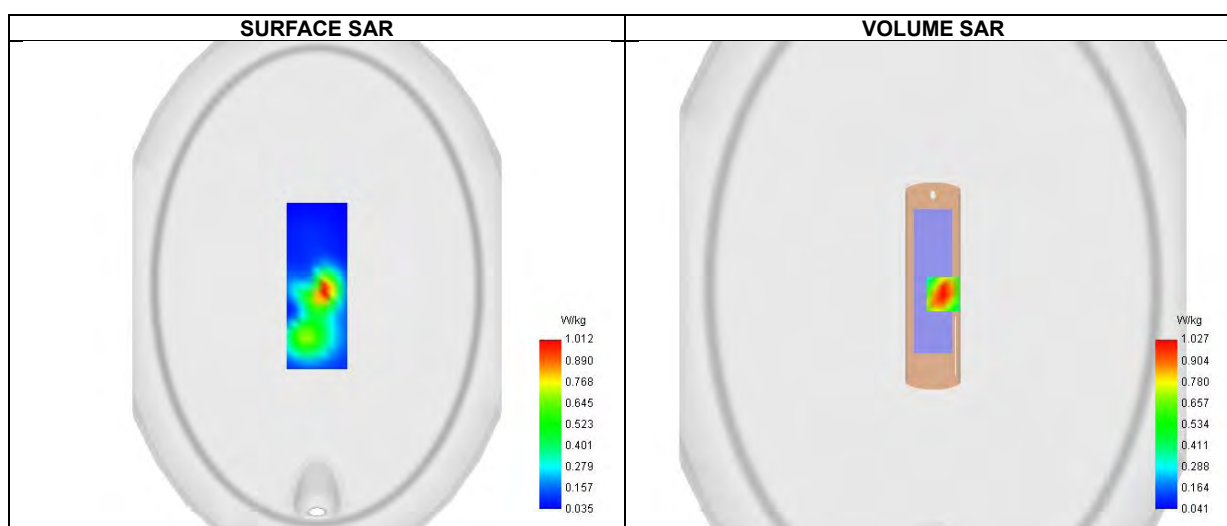
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.022	0.831	0.631	0.471	0.356	0.275	0.223





Plot 13:

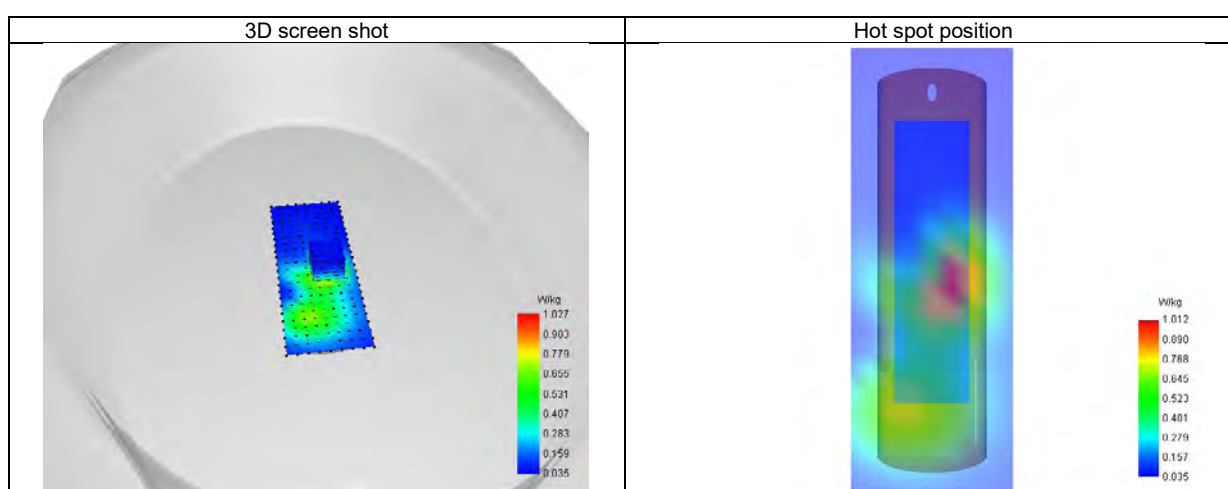
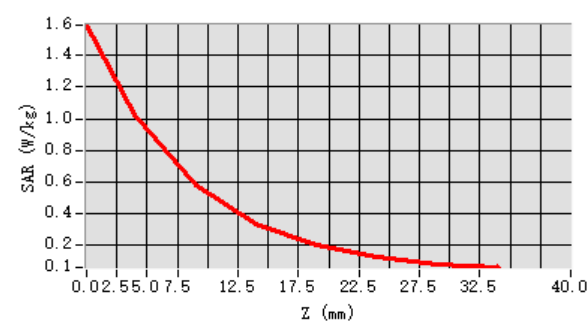
Test Date	2024-11-24
Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body back
Band	LTE Band 2
Channels	High
Frequency	1900
ConvF	2.24
Relative permittivity	39.28
Conductivity (S/m)	1.37



Maximum location: X=10.00, Y=-8.00 ; SAR Peak: 1.59 W/kg

SAR 10g (W/Kg)	0.557
SAR 1g (W/Kg)	0.995
Variation (%)	-1.750
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	56.882164

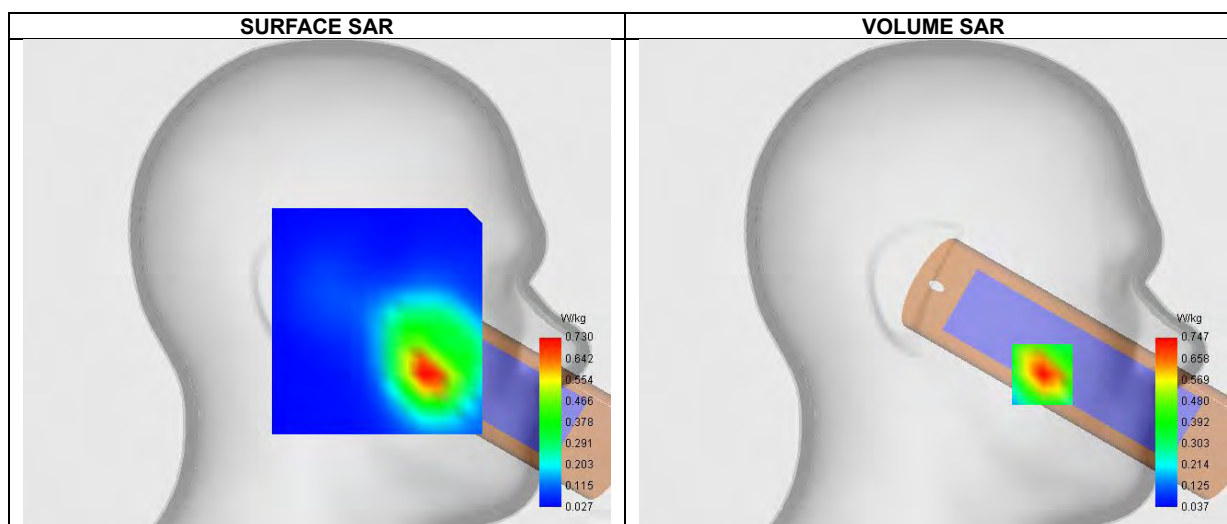
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.592	1.027	0.584	0.339	0.204	0.125	0.081





Plot 14:

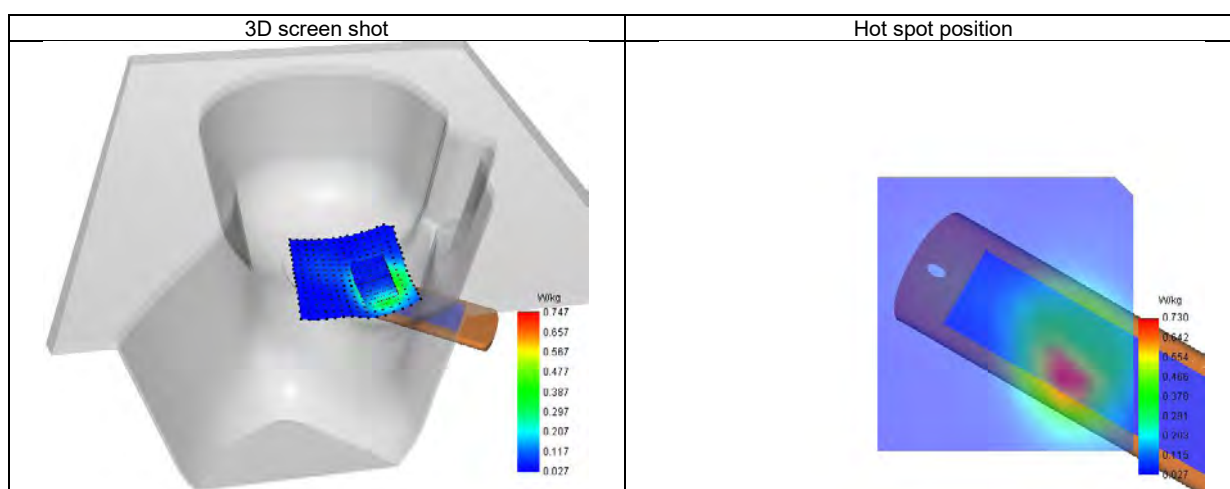
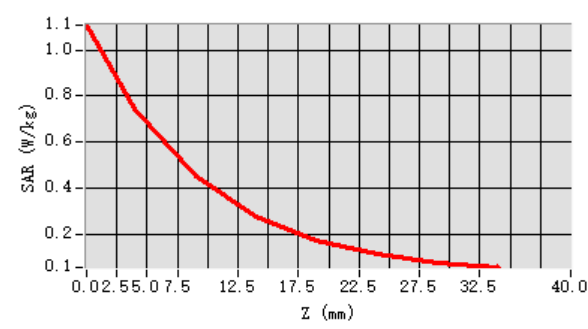
Test Date	2024-11-23
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE Band 4
Channels	Middle
Frequency	1732.5
ConvF	1.91
Relative permittivity	40.15
Conductivity (S/m)	1.36



Maximum location: X=-58.00, Y=-48.00 ; SAR Peak: 1.11 W/kg

SAR 10g (W/Kg)	0.348
SAR 1g (W/Kg)	0.636
Variation (%)	-3.060
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	60.812281

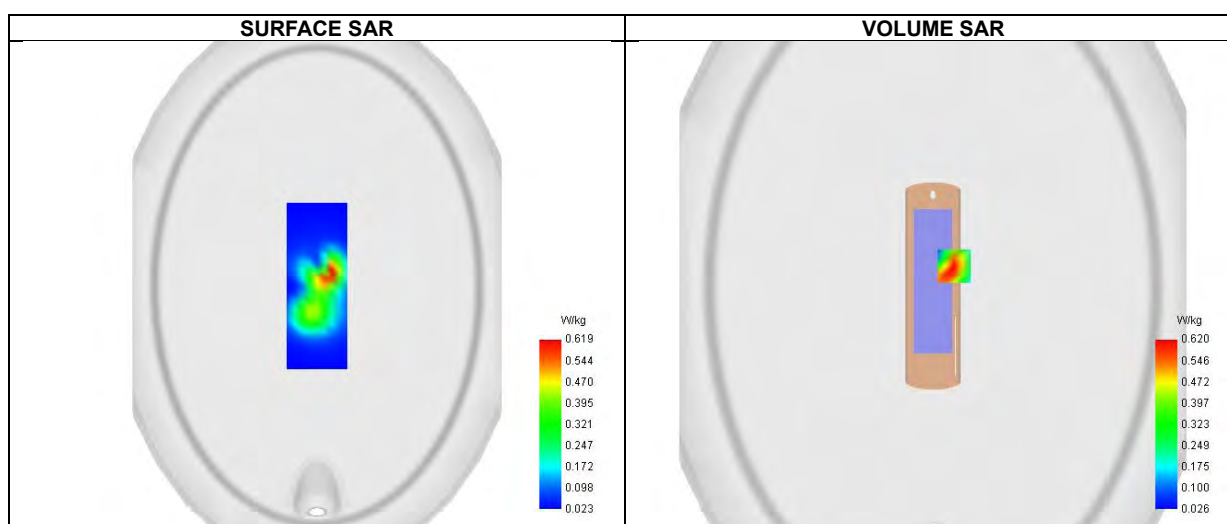
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.107	0.747	0.454	0.278	0.176	0.114	0.075





Plot 15:

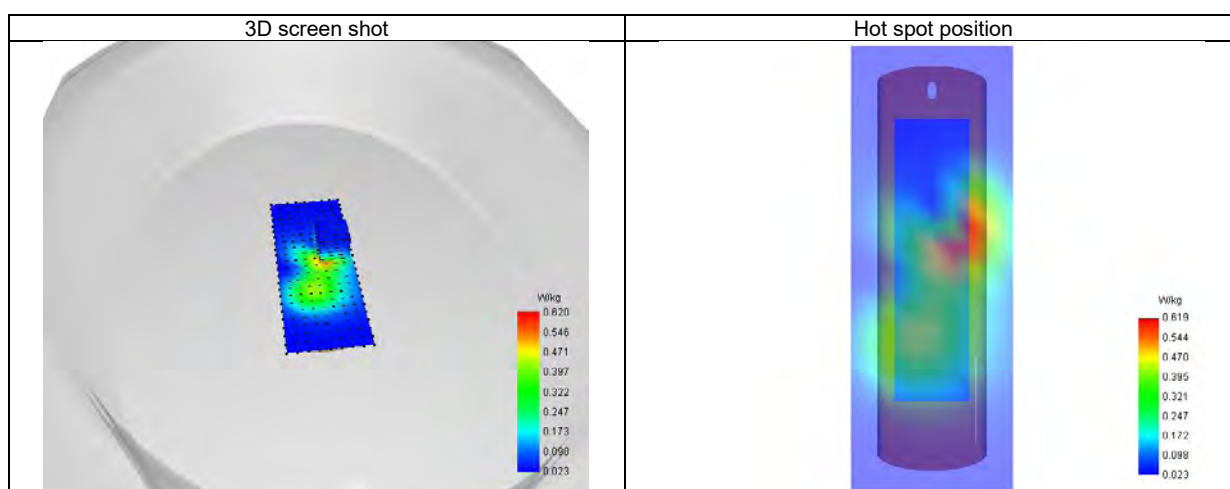
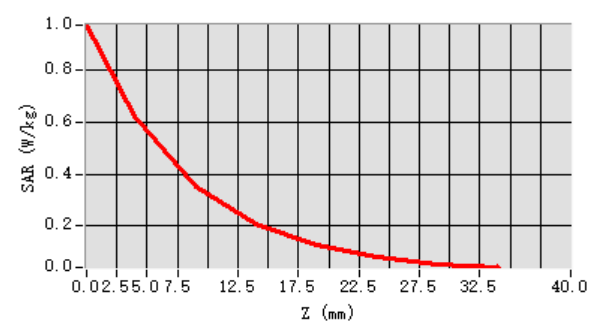
Test Date	2024-11-23
Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body back
Band	LTE Band 4
Channels	Middle
Frequency	1732.5
ConvF	1.91
Relative permittivity	40.15
Conductivity (S/m)	1.36



Maximum location: X=20.00, Y=19.00 ; SAR Peak: 0.96 W/kg

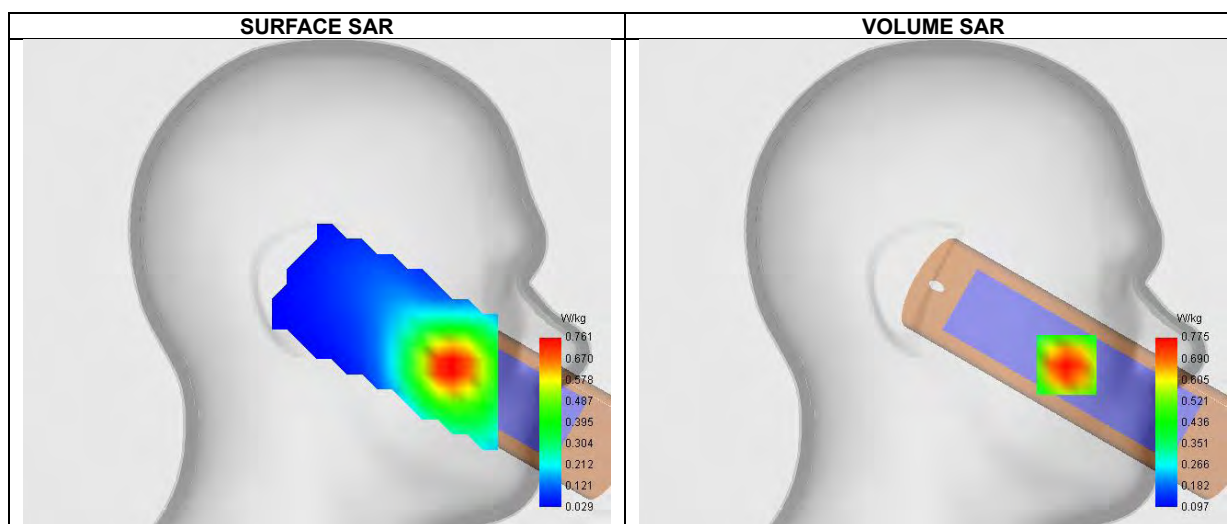
SAR 10g (W/Kg)	0.350
SAR 1g (W/Kg)	0.597
Variation (%)	-3.870
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	56.709852

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.970	0.620	0.352	0.208	0.129	0.082	0.055



Plot 16:

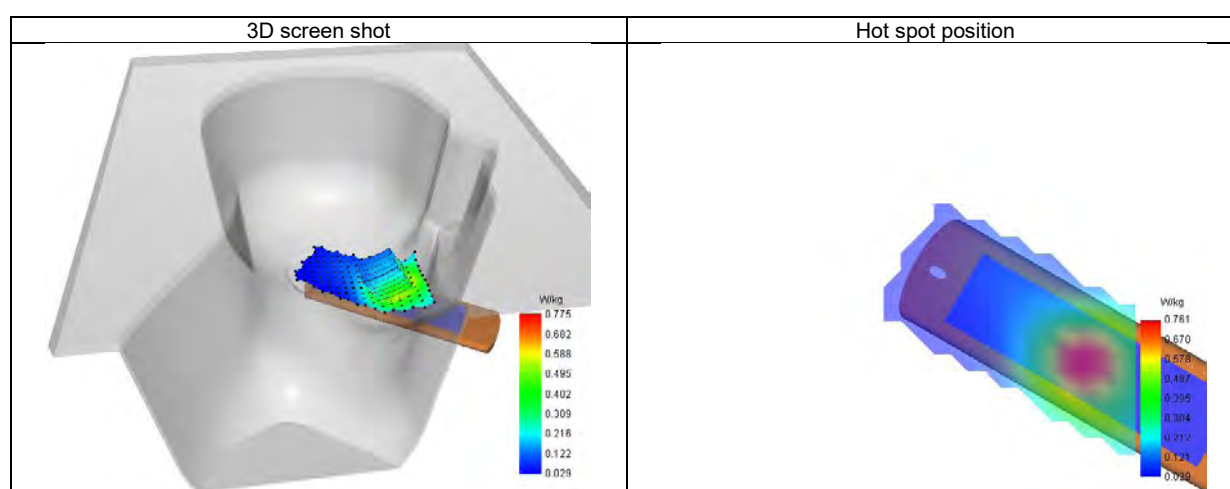
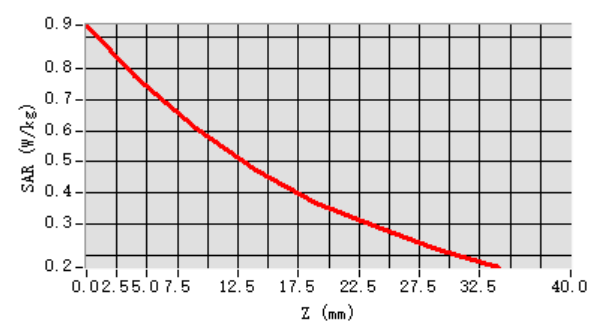
Test Date	2024-11-22
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE Band 5
Channels	Middle
Frequency	836.5
ConvF	1.70
Relative permittivity	40.39
Conductivity (S/m)	0.93



Maximum location: X=-71.00, Y=-43.00 ; SAR Peak: 0.96 W/kg

SAR 10g (W/Kg)	0.563
SAR 1g (W/Kg)	0.758
Variation (%)	-2.030
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	78.532109

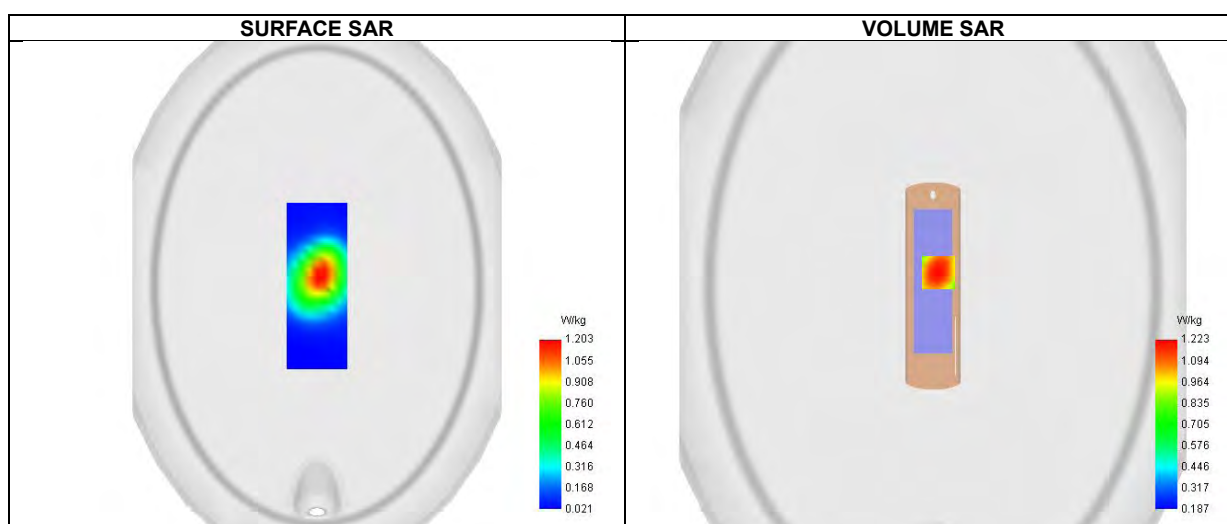
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.937	0.775	0.609	0.474	0.370	0.290	0.221





Plot 17:

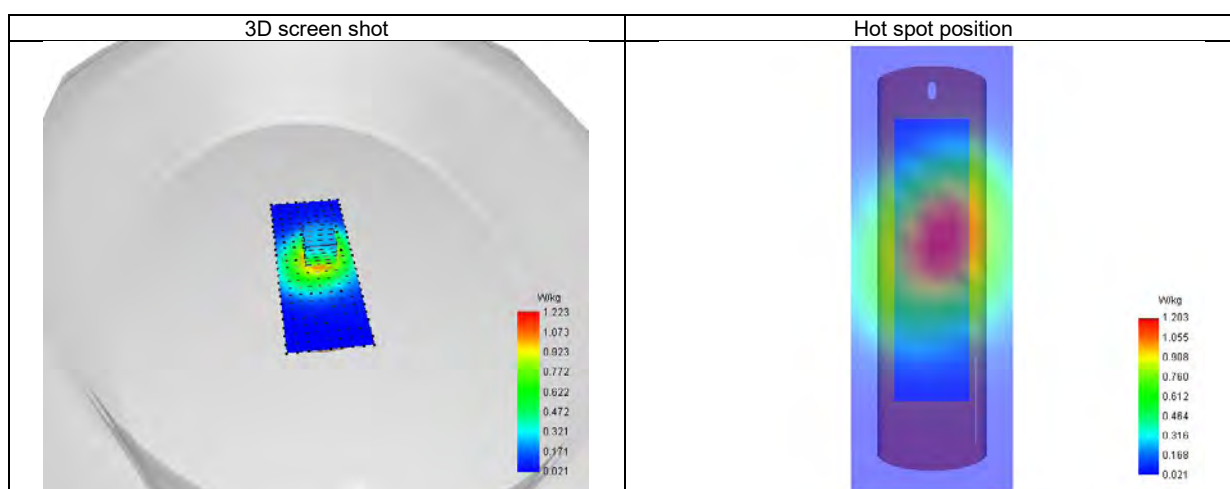
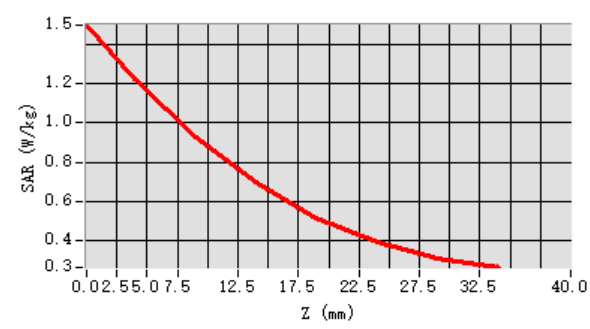
Test Date	2024-11-22
Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	LTE Band 5
Channels	Middle
Frequency	836.5
ConvF	1.70
Relative permittivity	40.39
Conductivity (S/m)	0.93



Maximum location: X=5.00, Y=13.00 ; SAR Peak: 1.50 W/kg

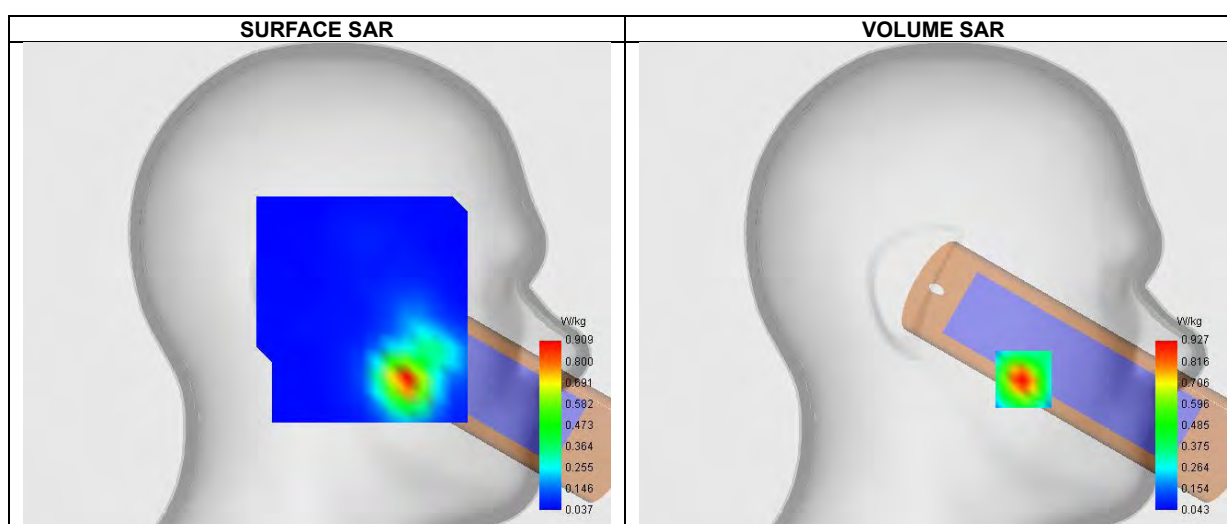
SAR 10g (W/Kg)	0.809
SAR 1g (W/Kg)	1.125
Variation (%)	-1.750
Horizontal validation criteria: minimum distance (mm)	-1.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	75.937334

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.498	1.223	0.929	0.696	0.516	0.393	0.312



Plot 18:

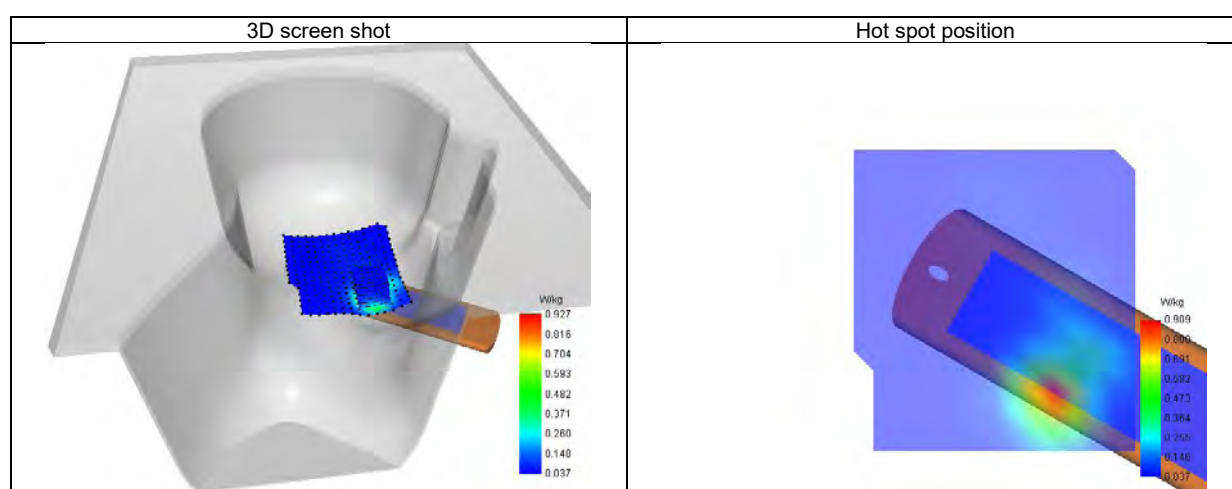
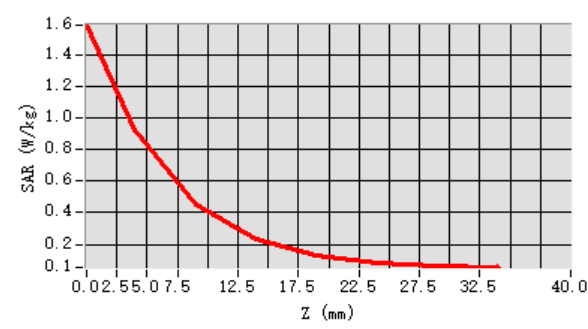
Test Date	2024-11-25
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE Band 7
Channels	High
Frequency	2560
ConvF	2.35
Relative permittivity	39.73
Conductivity (S/m)	1.94



Maximum location: X=-48.00, Y=-49.00 ; SAR Peak: 1.57 W/kg

SAR 10g (W/Kg)	0.348
SAR 1g (W/Kg)	0.872
Variation (%)	1.810
Horizontal validation criteria: minimum distance (mm)	11.180340
Vertical validation criteria: SAR ratio M2/M1 (%)	48.915362

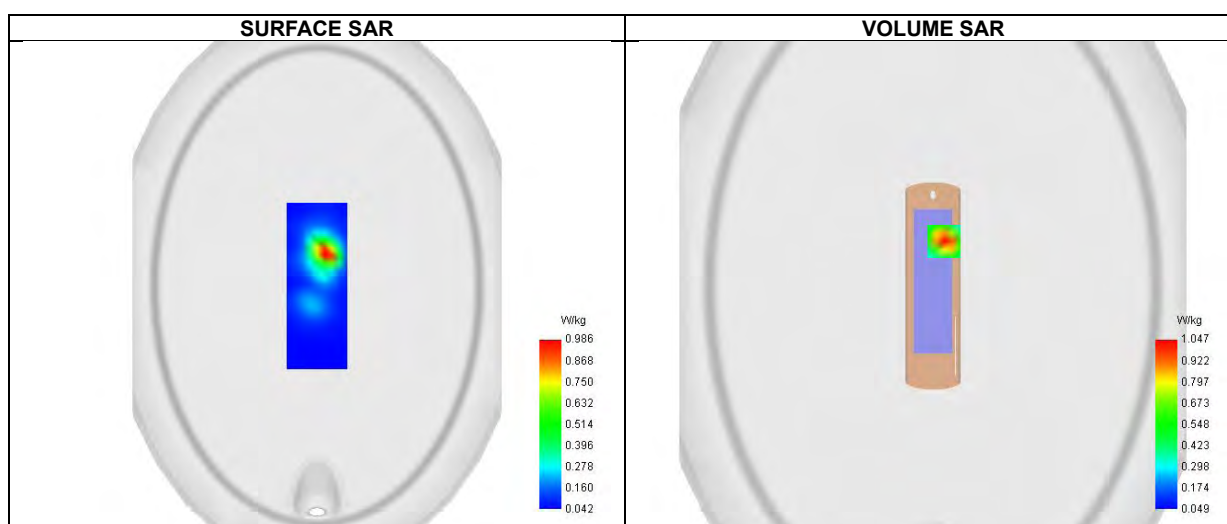
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.586	0.927	0.453	0.231	0.134	0.087	0.064





Plot 19:

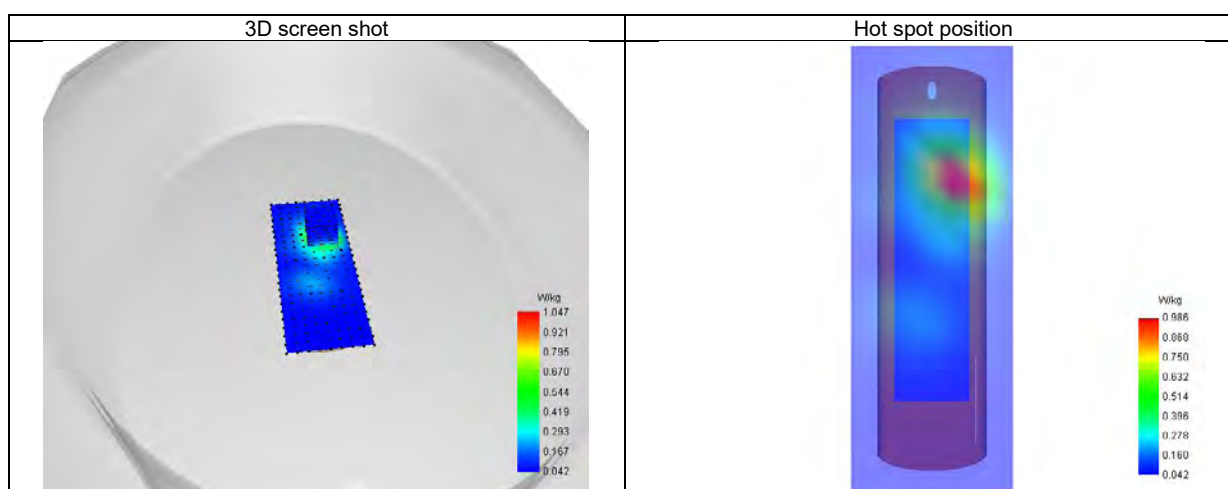
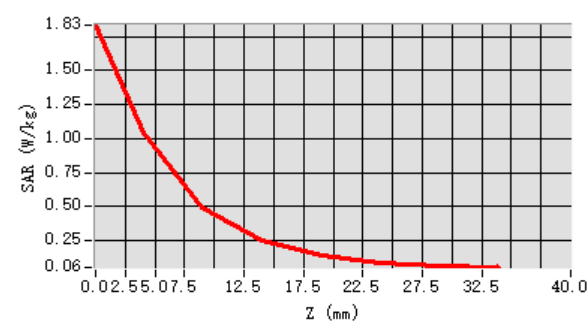
Test Date	2024-11-25
Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Body back
Band	LTE Band 7
Channels	High
Frequency	2560
ConvF	2.35
Relative permittivity	39.73
Conductivity (S/m)	1.94



Maximum location: X=11.00, Y=43.00 ; SAR Peak: 1.82 W/kg

SAR 10g (W/Kg)	0.471
SAR 1g (W/Kg)	0.974
Variation (%)	-8.560
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	46.927000

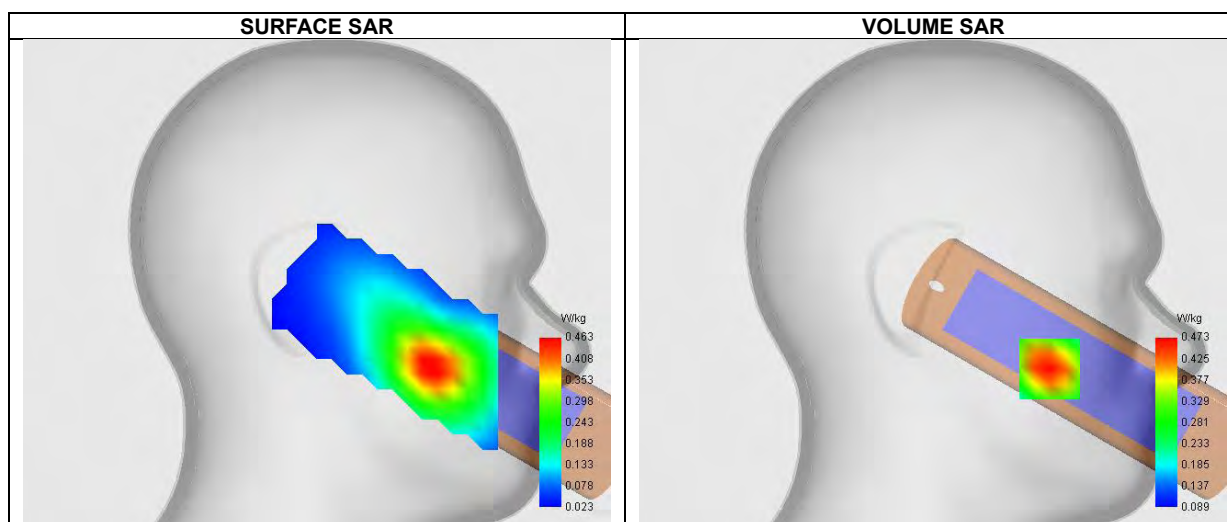
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.833	1.047	0.491	0.247	0.139	0.091	0.067





Plot 20:

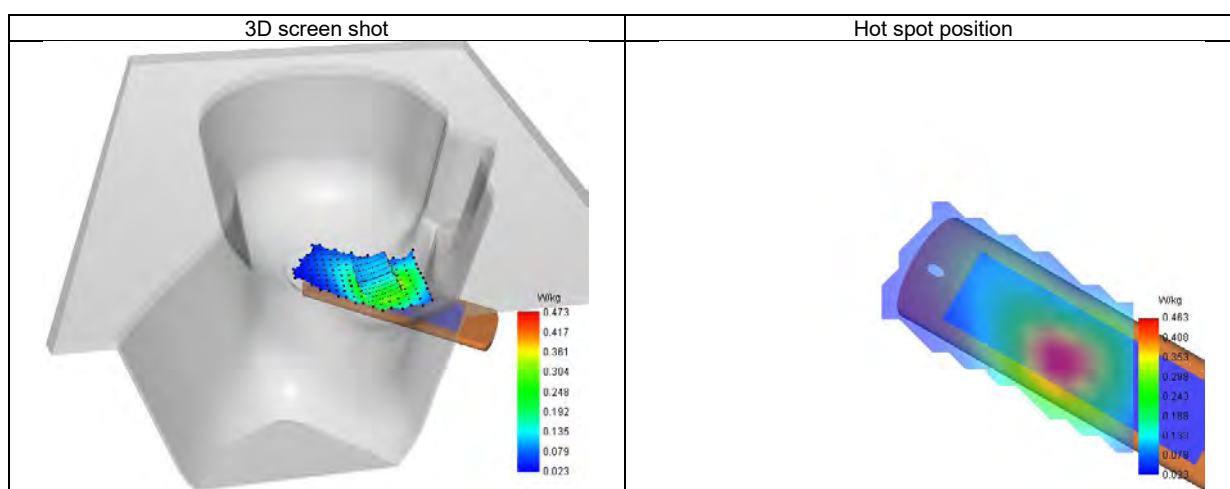
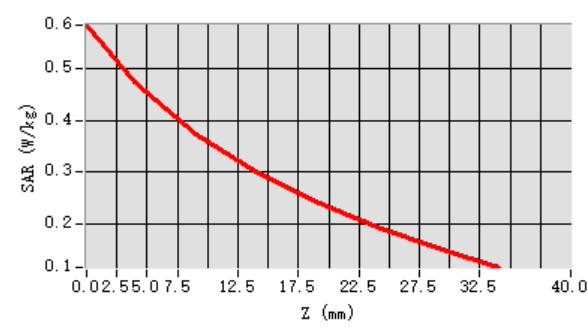
Test Date	2024-11-21
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE Band 12
Channels	Middle
Frequency	707.5
ConvF	1.68
Relative permittivity	43.56
Conductivity (S/m)	0.86



Maximum location: X=-62.00, Y=-45.00 ; SAR Peak: 0.59 W/kg

SAR 10g (W/Kg)	0.331
SAR 1g (W/Kg)	0.459
Variation (%)	-2.940
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	78.870147

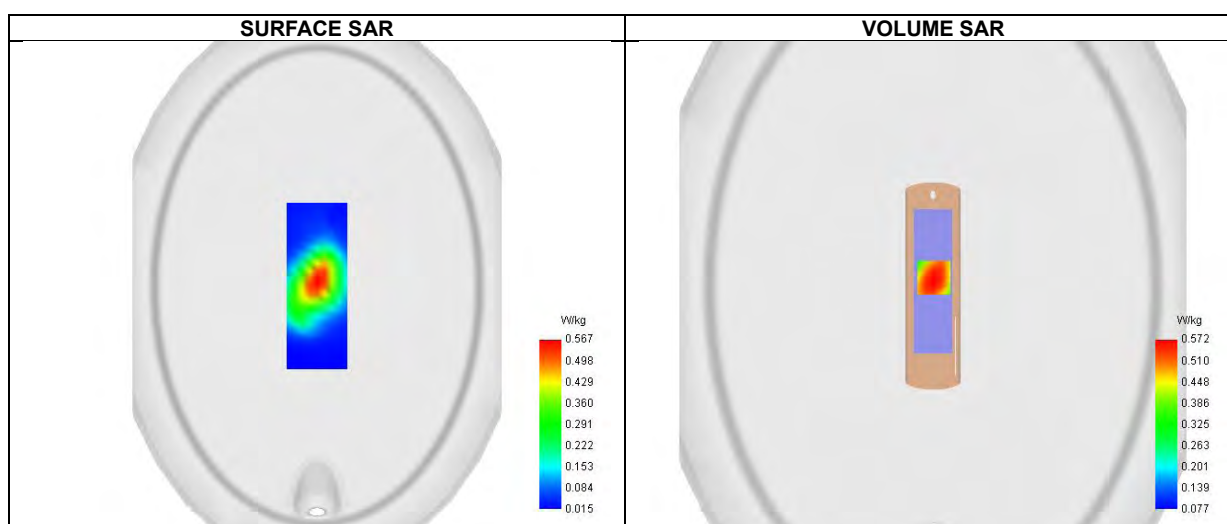
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.582	0.473	0.373	0.300	0.244	0.197	0.156





Plot 21:

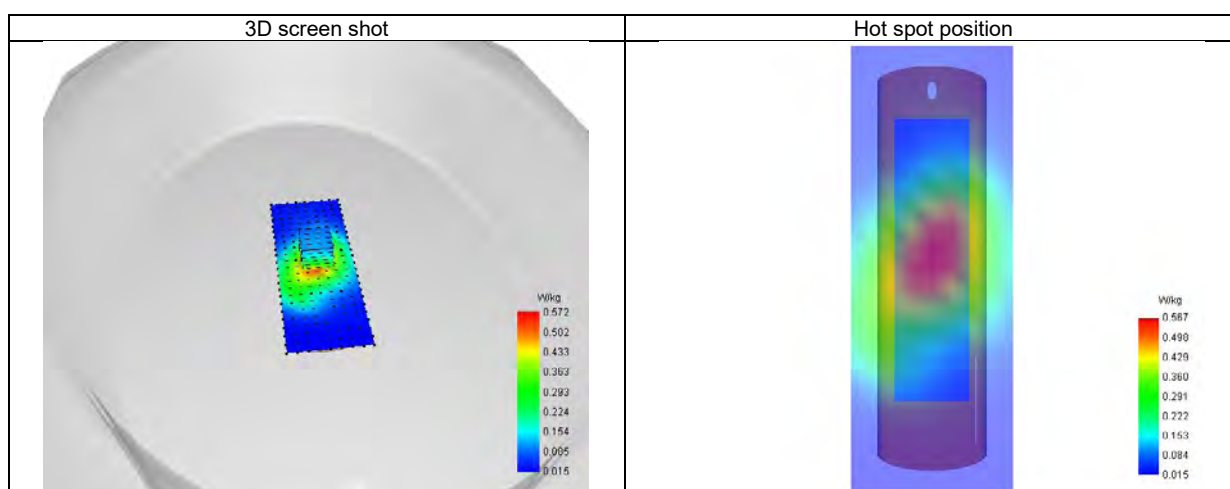
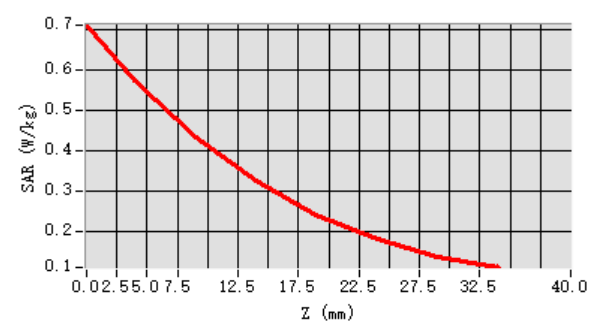
Test Date	2024-11-21
Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	LTE Band 12
Channels	Middle
Frequency	707.5
ConvF	1.68
Relative permittivity	43.56
Conductivity (S/m)	0.86



Maximum location: X=1.00, Y=8.00 ; SAR Peak: 0.72 W/kg

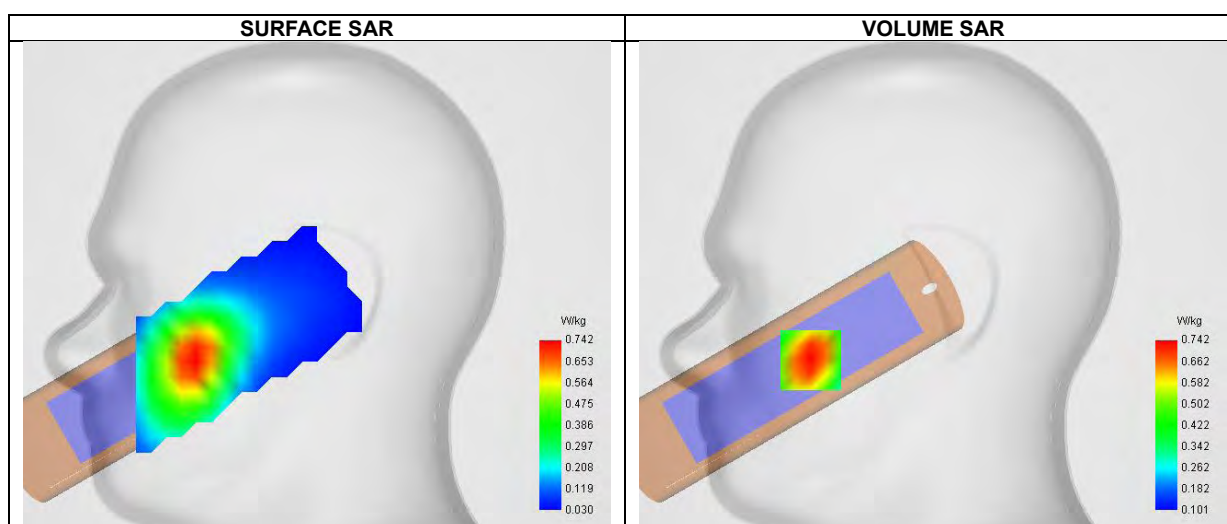
SAR 10g (W/Kg)	0.425
SAR 1g (W/Kg)	0.575
Variation (%)	-1.160
Horizontal validation criteria: minimum distance (mm)	-1.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	75.456782

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.710	0.572	0.432	0.324	0.240	0.182	0.139



Plot 22:

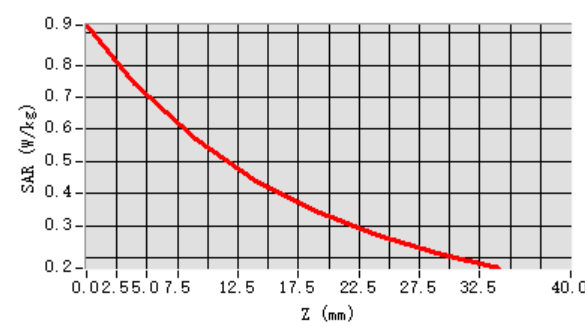
Test Date	2024-11-21
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 13
Channels	Middle
Frequency	782
ConvF	1.68
Relative permittivity	42.95
Conductivity (S/m)	0.91

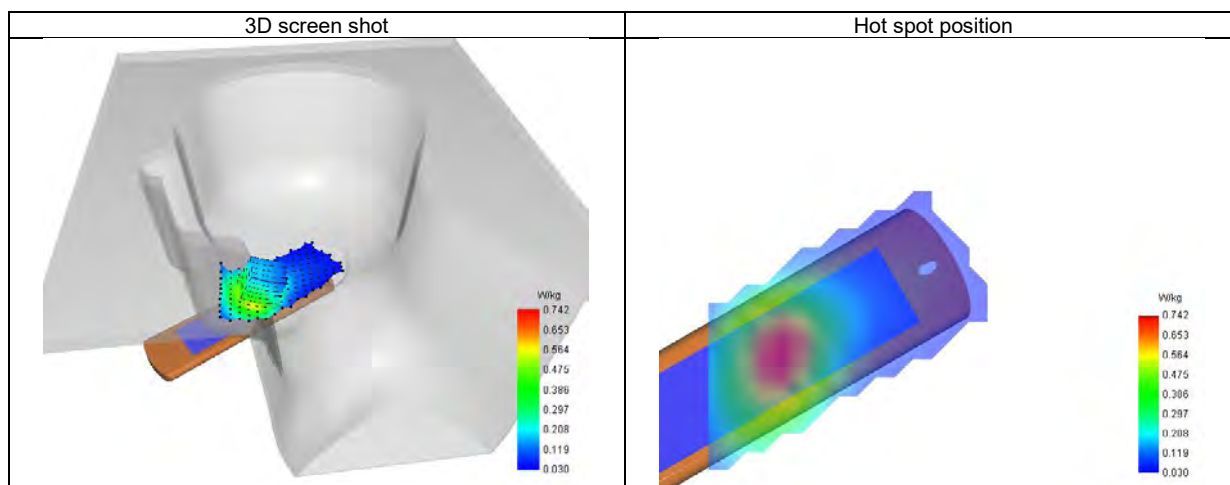


Maximum location: X=-65.00, Y=-39.00 ; SAR Peak: 0.95 W/kg

SAR 10g (W/Kg)	0.524
SAR 1g (W/Kg)	0.736
Variation (%)	-2.380
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	76.671668

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.924	0.742	0.569	0.439	0.346	0.269	0.214

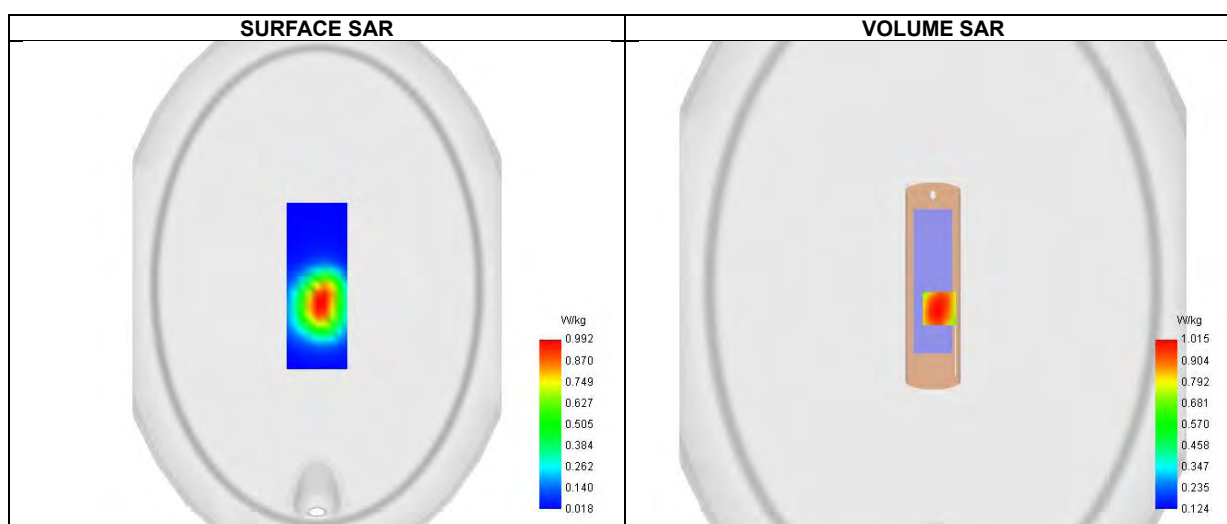






Plot 23:

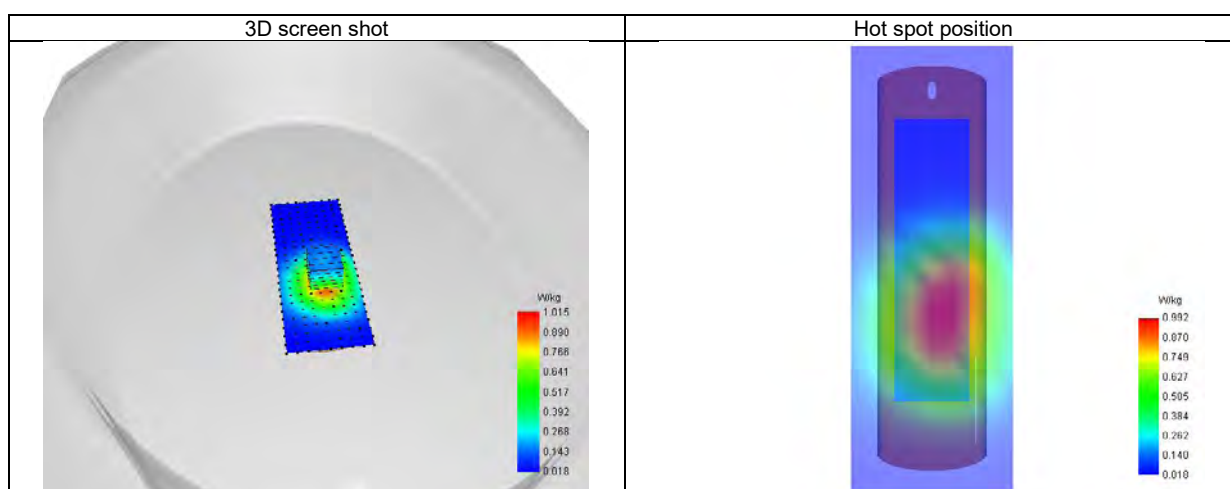
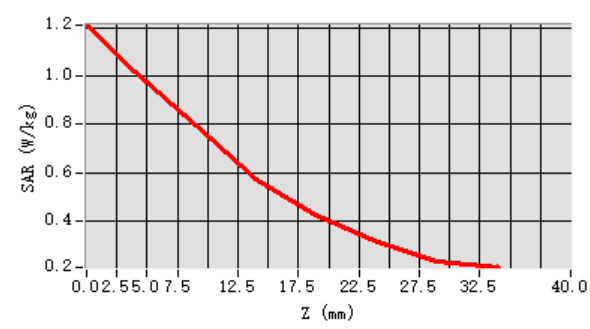
Test Date	2024-11-21
Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	LTE Band 13
Channels	Middle
Frequency	782
ConvF	1.68
Relative permittivity	42.95
Conductivity (S/m)	0.91



Maximum location: X=6.00, Y=-22.00 ; SAR Peak: 1.24 W/kg

SAR 10g (W/Kg)	0.707
SAR 1g (W/Kg)	0.988
Variation (%)	-0.770
Horizontal validation criteria: minimum distance (mm)	-1.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	78.096175

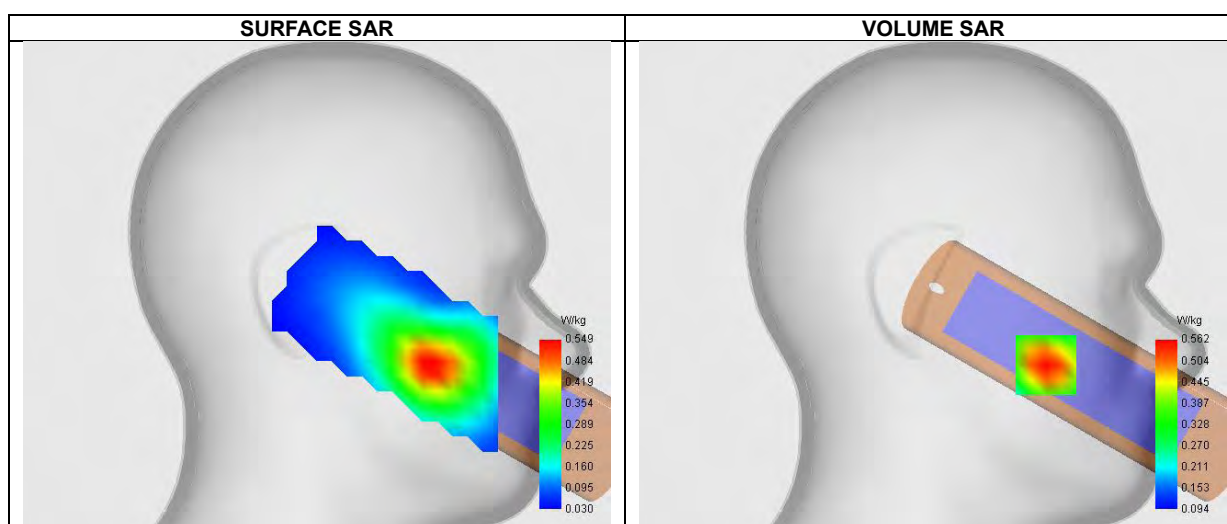
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.210	1.015	0.793	0.574	0.426	0.314	0.234





Plot 24:

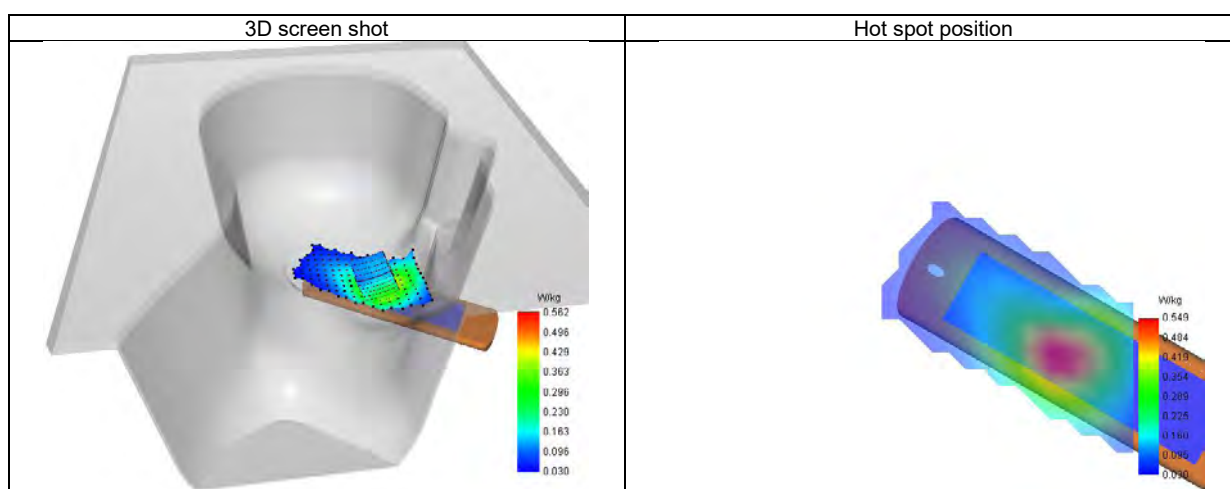
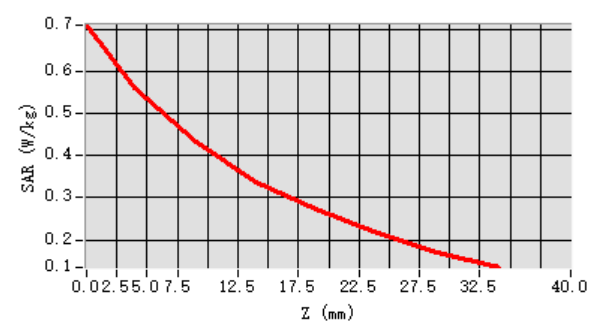
Test Date	2024-11-21
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE Band 17
Channels	Middle
Frequency	710
ConvF	1.95
Relative permittivity	43.34
Conductivity (S/m)	0.86



Maximum location: X=-60.00, Y=-42.00 ; SAR Peak: 0.72 W/kg

SAR 10g (W/Kg)	0.386
SAR 1g (W/Kg)	0.543
Variation (%)	-2.520
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	76.874042

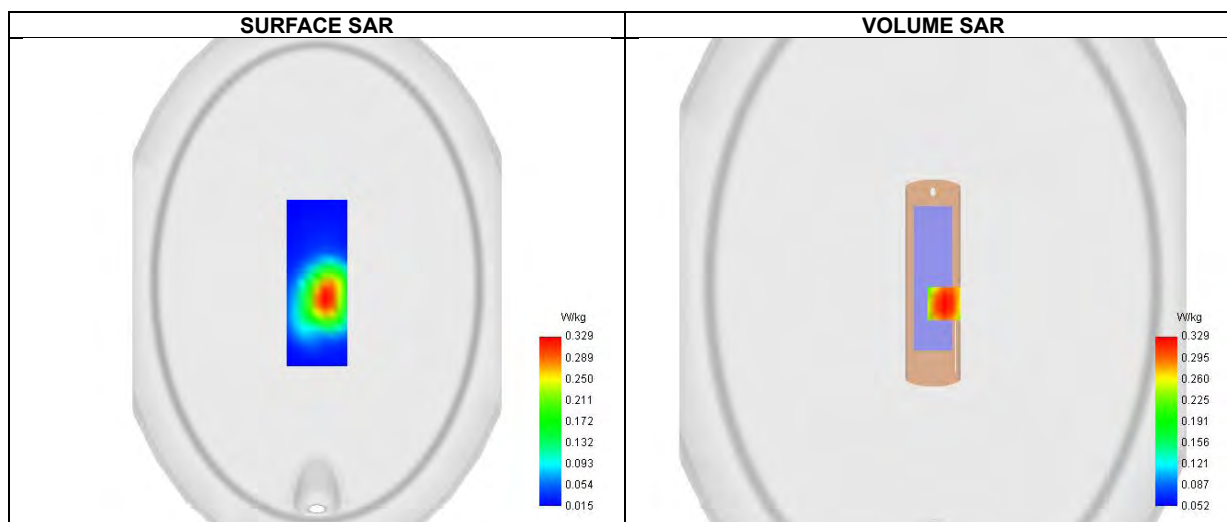
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.711	0.562	0.432	0.339	0.273	0.216	0.169





Plot 25:

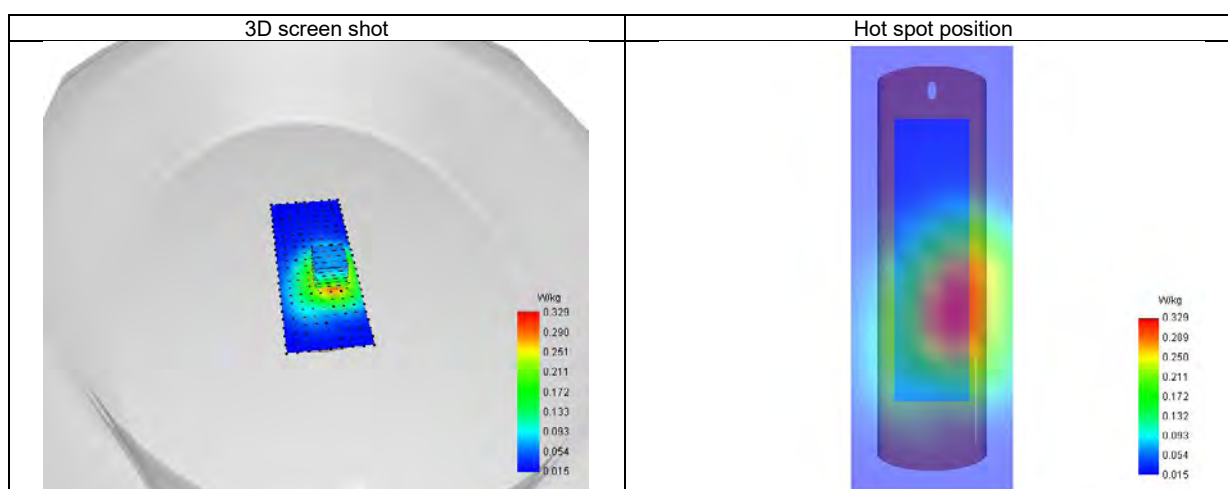
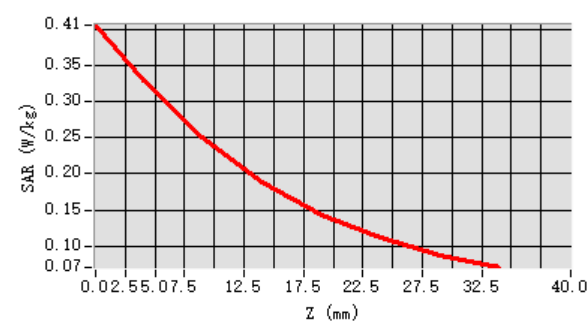
Test Date	2024-11-21
Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	LTE Band 17
Channels	Middle
Frequency	710
ConvF	1.95
Relative permittivity	43.34
Conductivity (S/m)	0.86



Maximum location: X=11.00, Y=-20.00 ; SAR Peak: 0.41 W/kg

SAR 10g (W/Kg)	0.245
SAR 1g (W/Kg)	0.338
Variation (%)	-2.450
Horizontal validation criteria: minimum distance (mm)	-1.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	76.046668

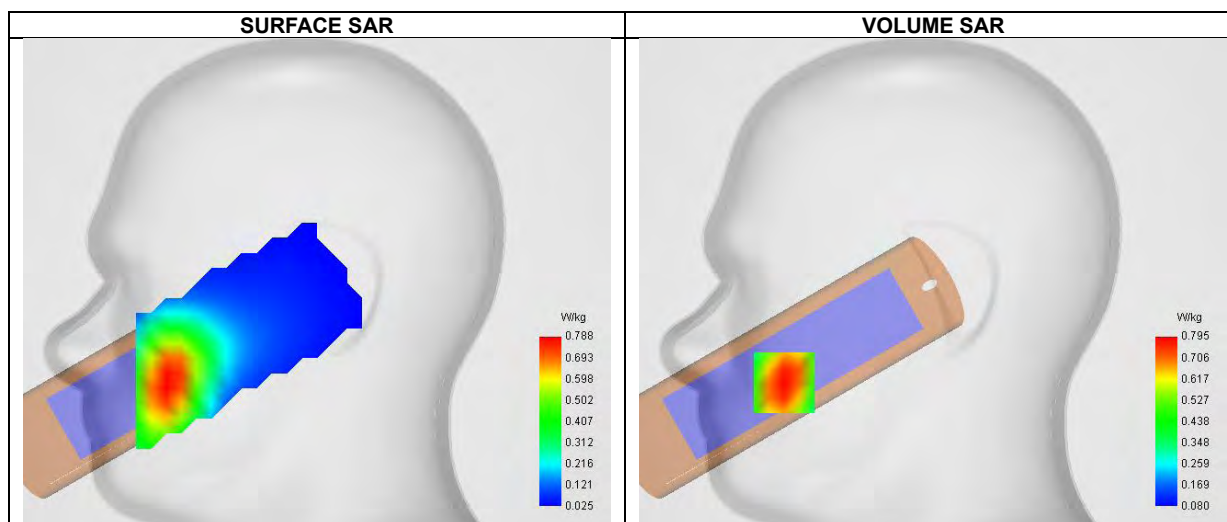
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.405	0.329	0.250	0.189	0.143	0.112	0.088





Plot 26:

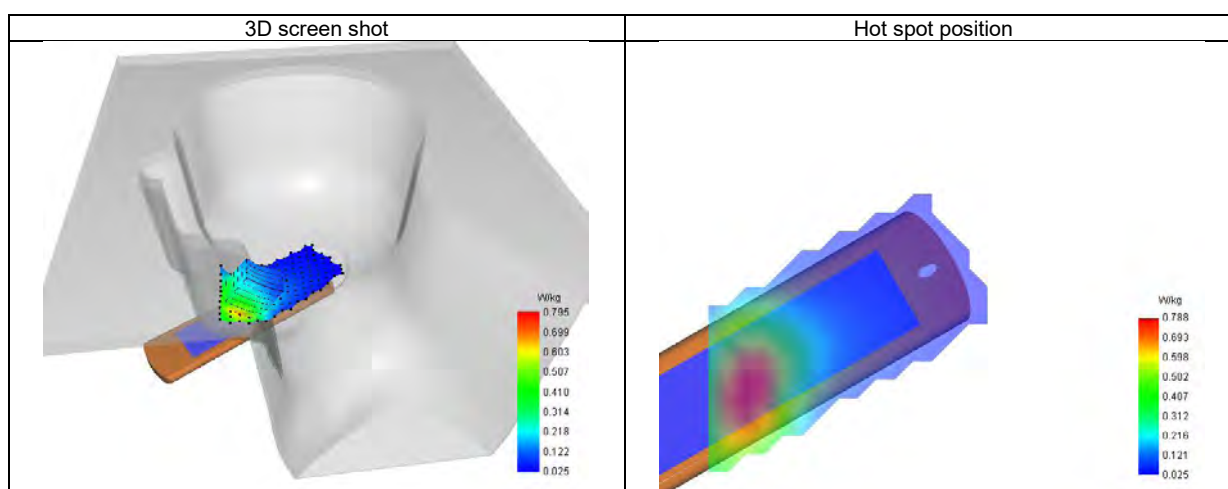
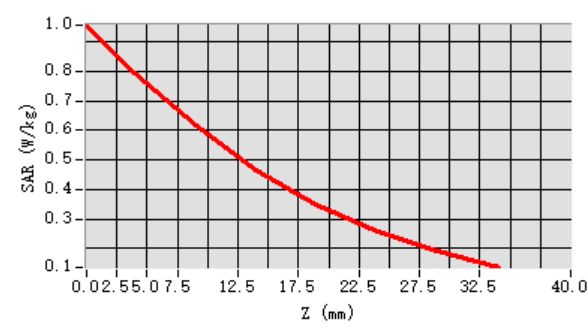
Test Date	2024-11-22
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 26A
Channels	Middle
Frequency	836.5
ConvF	1.70
Relative permittivity	40.78
Conductivity (S/m)	0.93



Maximum location: X=-79.00, Y=-53.00 ; SAR Peak: 1.00 W/kg

SAR 10g (W/Kg)	0.551
SAR 1g (W/Kg)	0.774
Variation (%)	-2.650
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	77.522188

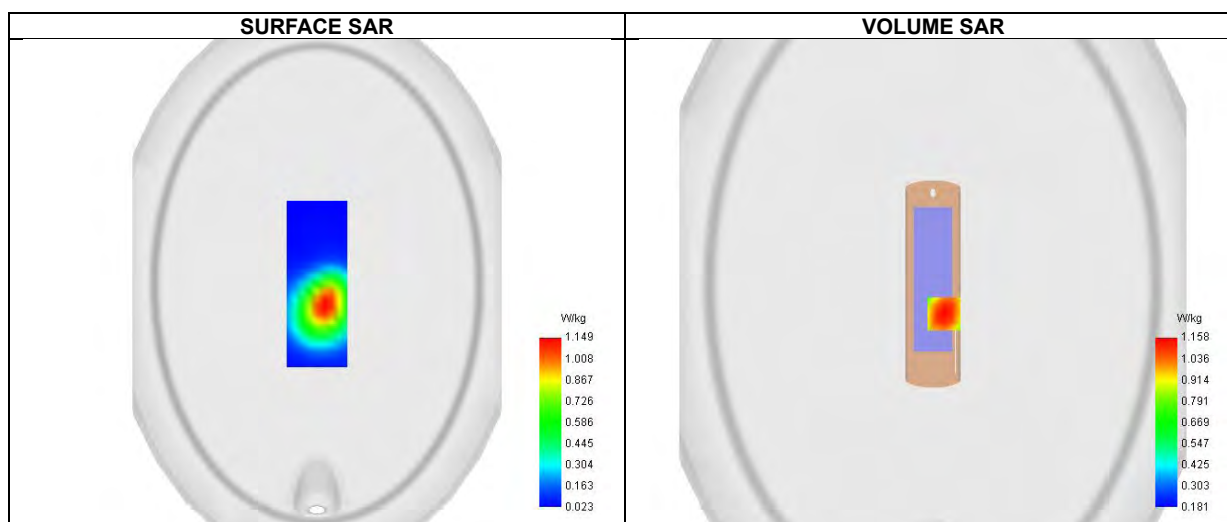
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.956	0.795	0.617	0.468	0.350	0.256	0.192





Plot 27:

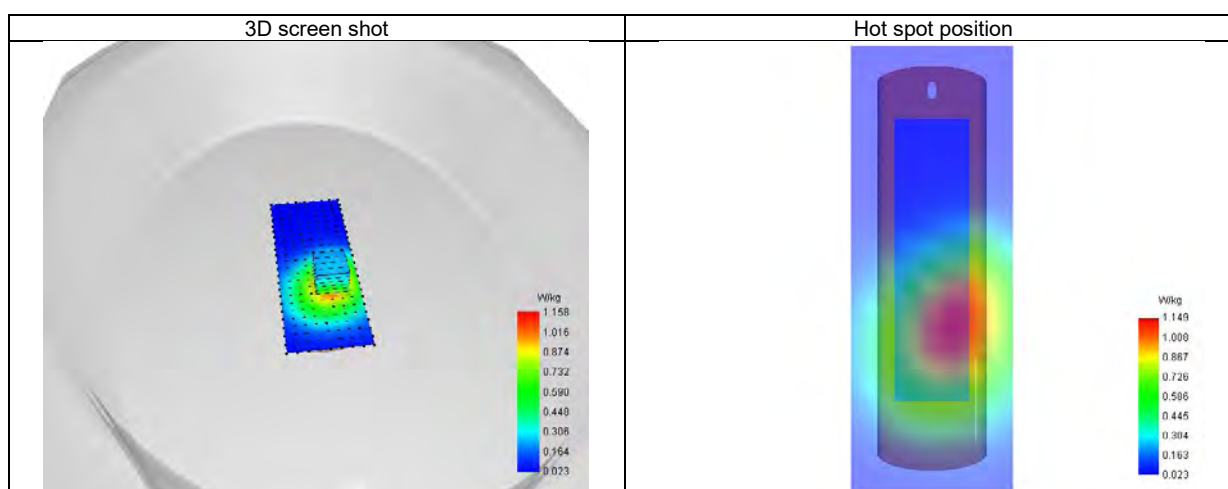
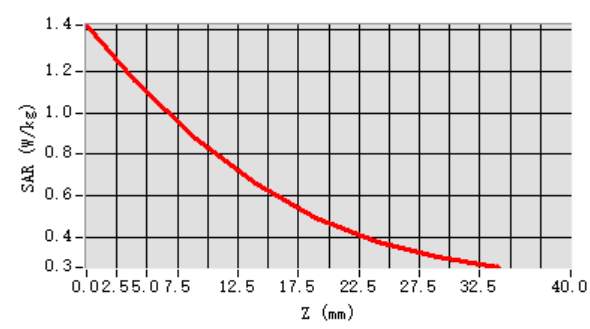
Test Date	2024-11-22
Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body back
Band	LTE Band 26A
Channels	Low
Frequency	831.5
ConvF	1.70
Relative permittivity	41.89
Conductivity (S/m)	0.92



Maximum location: X=11.00, Y=-29.00 ; SAR Peak: 1.43 W/kg

SAR 10g (W/Kg)	0.787
SAR 1g (W/Kg)	1.124
Variation (%)	-2.890
Horizontal validation criteria: minimum distance (mm)	-1.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	75.782637

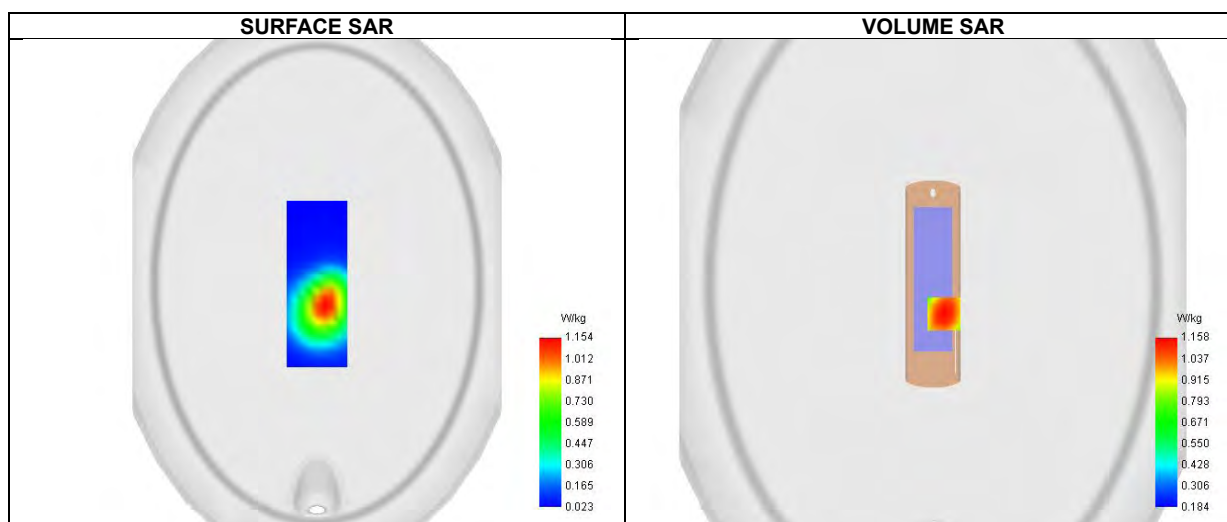
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.421	1.158	0.877	0.657	0.490	0.377	0.304





Plot 28:

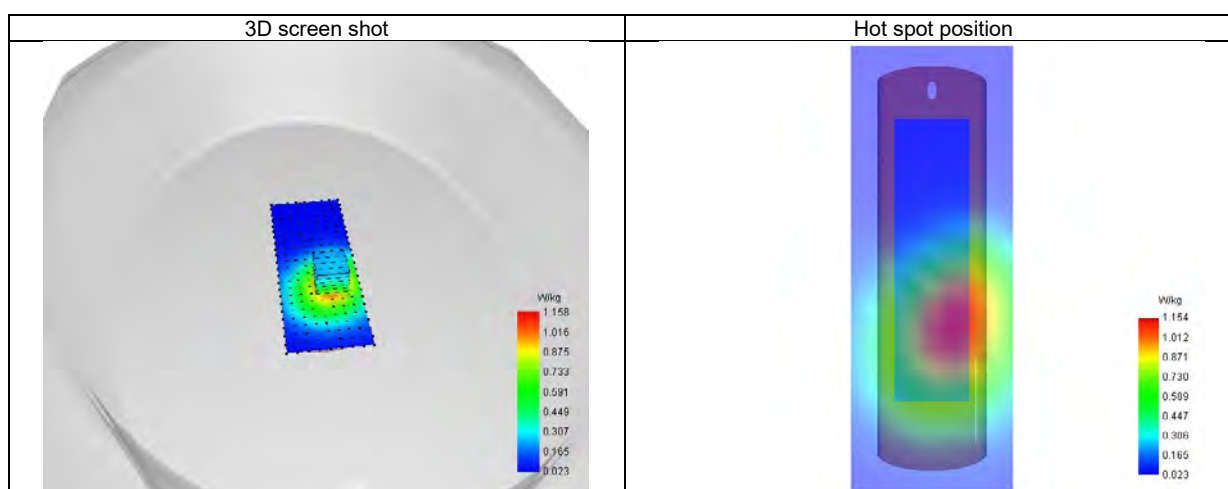
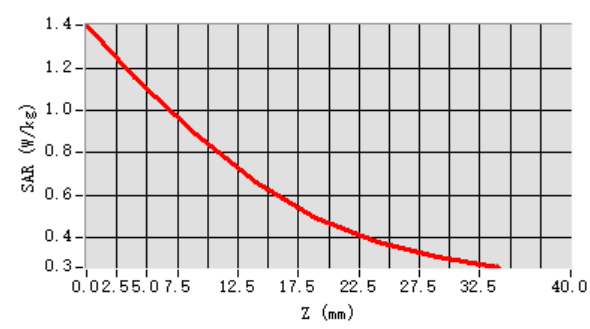
Test Date	2024-11-22
Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body back
Band	LTE Band 26A
Channels	High
Frequency	836.5
ConvF	1.70
Relative permittivity	40.78
Conductivity (S/m)	0.93



Maximum location: X=11.00, Y=-29.00 ; SAR Peak: 1.41 W/kg

SAR 10g (W/Kg)	0.826
SAR 1g (W/Kg)	1.125
Variation (%)	-1.850
Horizontal validation criteria: minimum distance (mm)	-1.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	76.429573

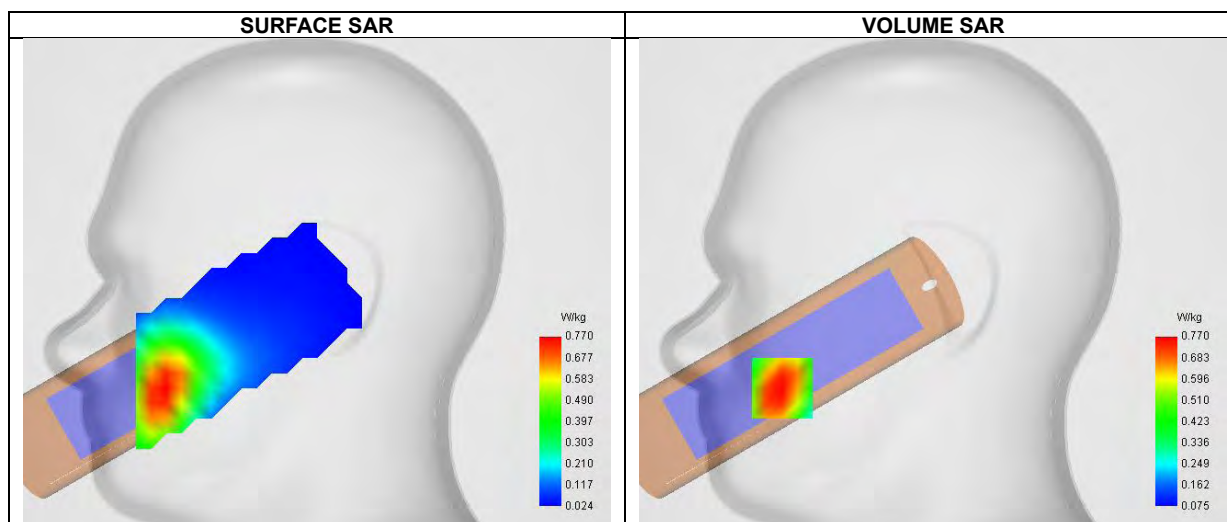
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.402	1.158	0.885	0.665	0.495	0.379	0.308





Plot 29:

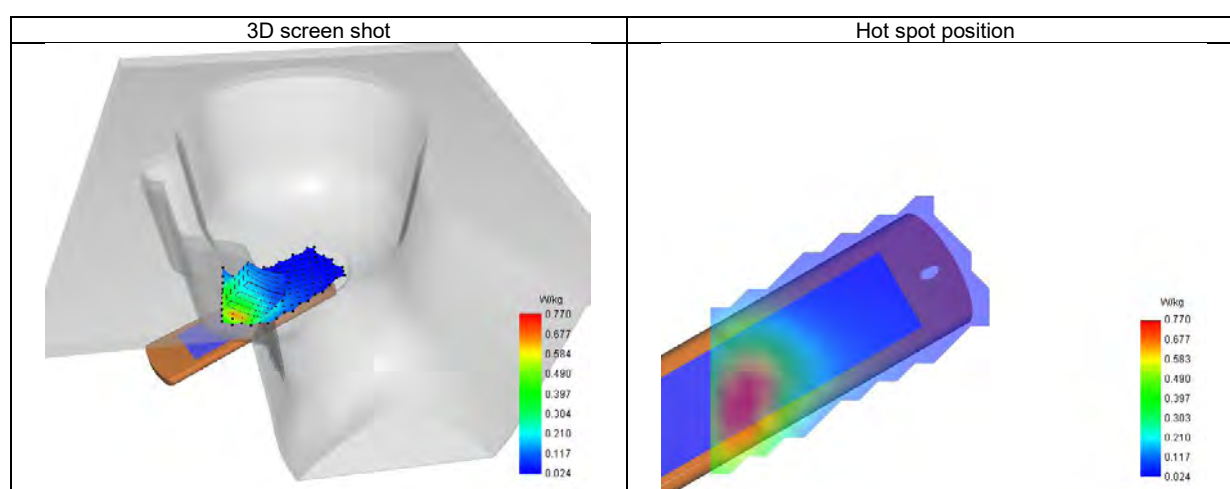
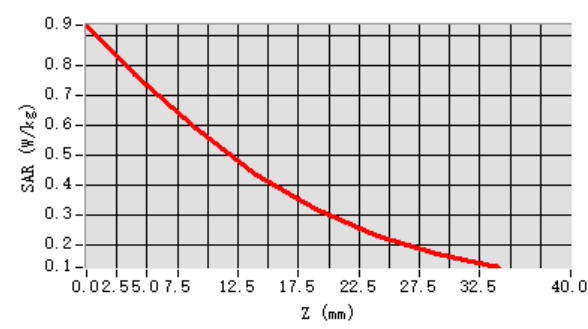
Test Date	2024-11-22
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 26B
Channels	Middle
Frequency	819
ConvF	1.70
Relative permittivity	43.43
Conductivity (S/m)	0.88



Maximum location: X=-80.00, Y=-56.00 ; SAR Peak: 0.97 W/kg

SAR 10g (W/Kg)	0.535
SAR 1g (W/Kg)	0.751
Variation (%)	2.580
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	76.612748

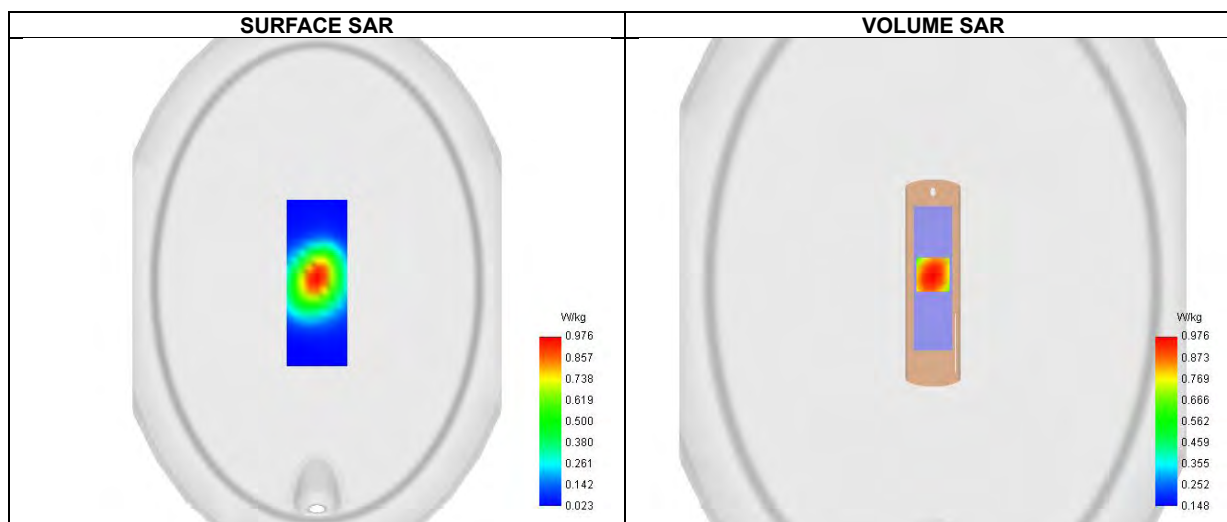
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.936	0.770	0.590	0.435	0.320	0.230	0.167





Plot 30:

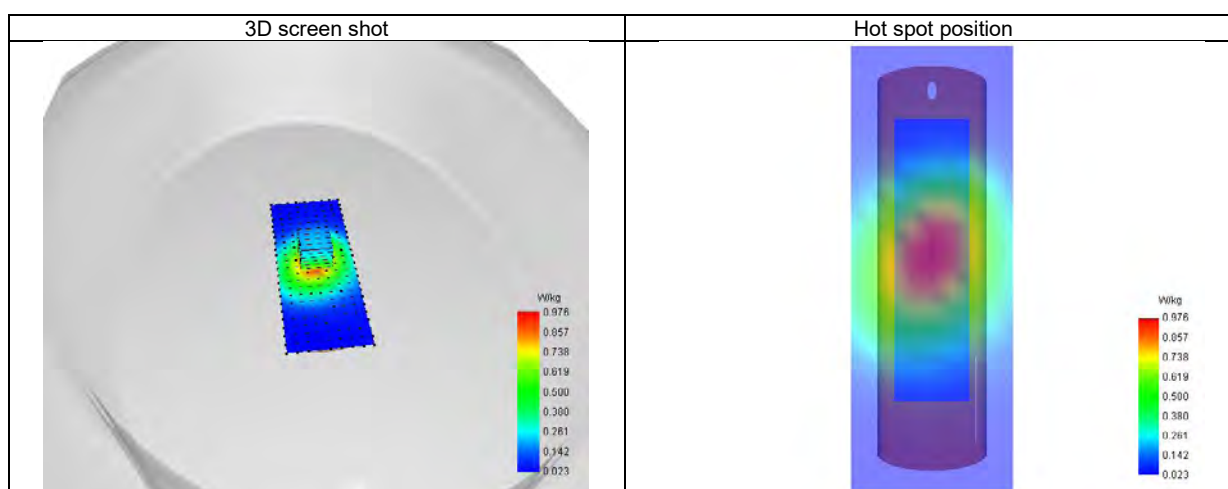
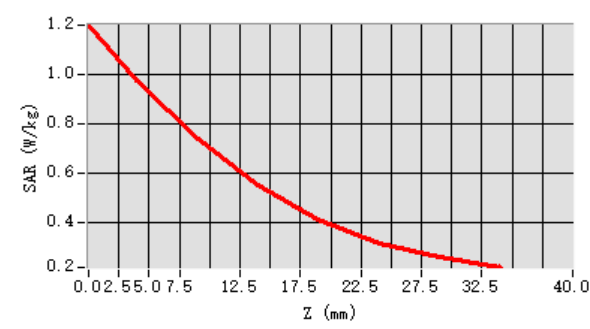
Test Date	2024-11-22
Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body back
Band	LTE Band 26B
Channels	Middle
Frequency	819
ConvF	1.70
Relative permittivity	43.43
Conductivity (S/m)	0.88



Maximum location: X=0.00, Y=8.00 ; SAR Peak: 1.20 W/kg

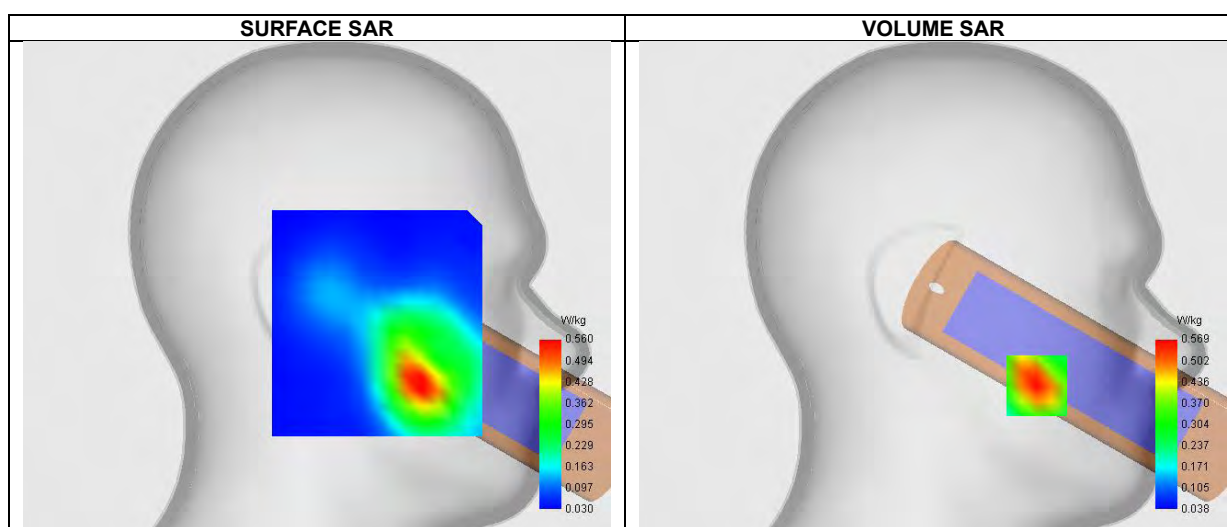
SAR 10g (W/Kg)	0.681
SAR 1g (W/Kg)	0.942
Variation (%)	-1.120
Horizontal validation criteria: minimum distance (mm)	-1.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	75.559639

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.200	0.976	0.738	0.550	0.411	0.316	0.257



Plot 31:

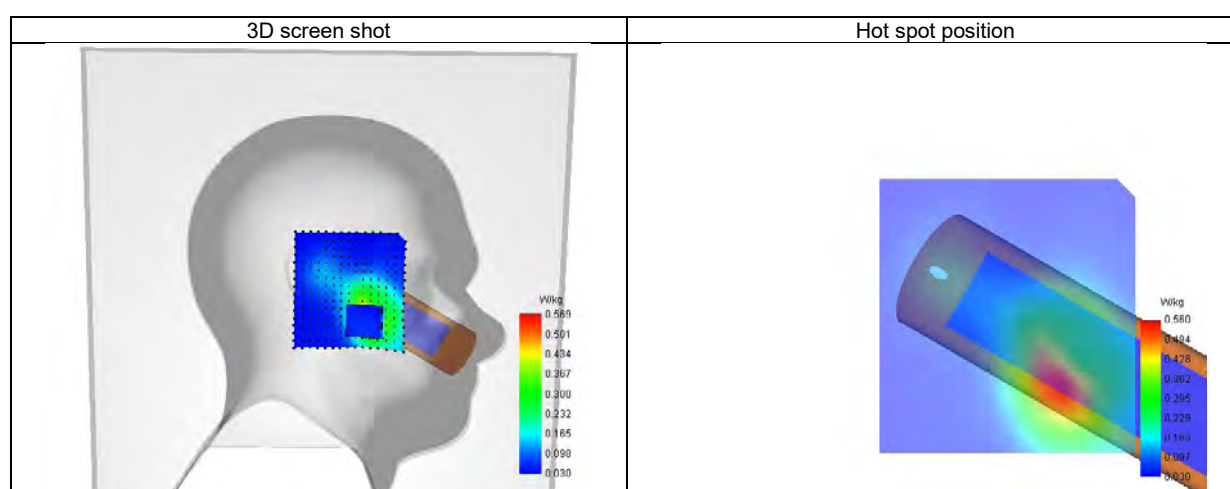
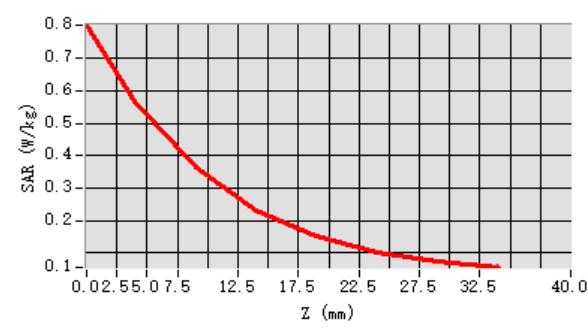
Test Date	2024-11-23
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE Band 66
Channels	Middle
Frequency	1755
ConvF	1.91
Relative permittivity	38.81
Conductivity (S/m)	1.49



Maximum location: X=-55.00, Y=-53.00 ; SAR Peak: 0.82 W/kg

SAR 10g (W/Kg)	0.314
SAR 1g (W/Kg)	0.529
Variation (%)	-1.490
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	64.002450

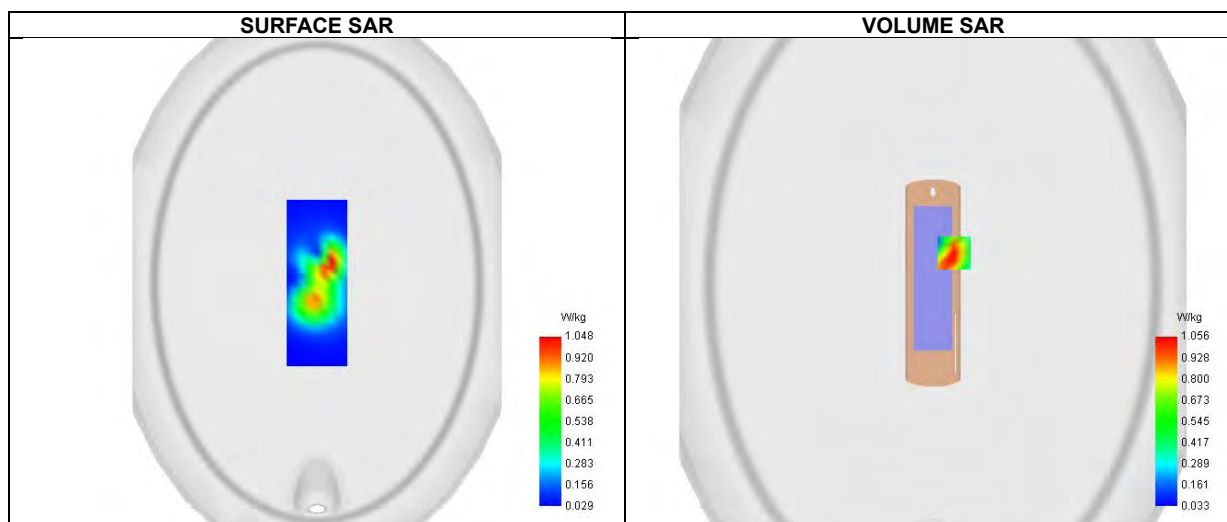
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.802	0.569	0.364	0.232	0.151	0.101	0.073





Plot 32:

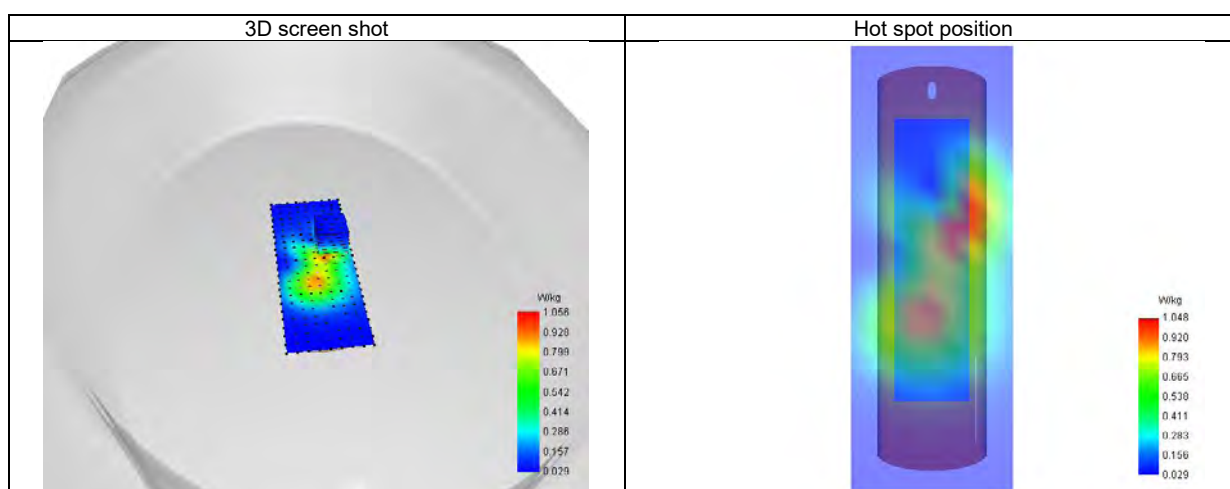
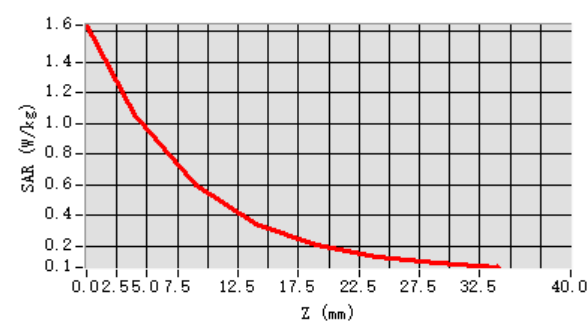
Test Date	2024-11-23
Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body back
Band	LTE Band 66
Channels	Middle
Frequency	1755
ConvF	1.91
Relative permittivity	38.81
Conductivity (S/m)	1.49



Maximum location: X=20.00, Y=29.00 ; SAR Peak: 1.64 W/kg

SAR 10g (W/Kg)	0.536
SAR 1g (W/Kg)	0.986
Variation (%)	-1.530
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	56.403948

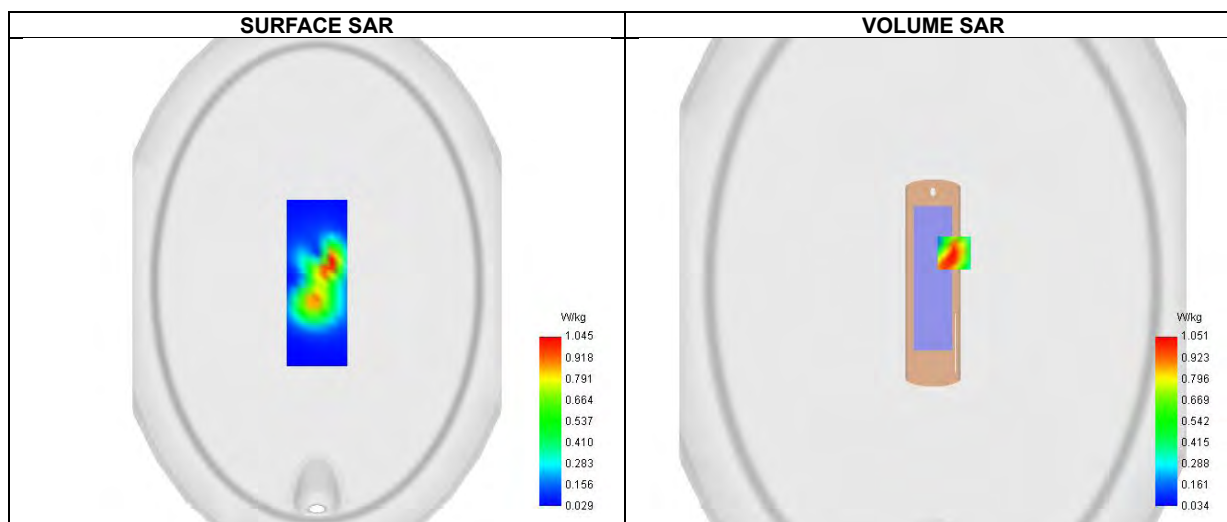
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.643	1.056	0.596	0.341	0.206	0.127	0.085





Plot 33:

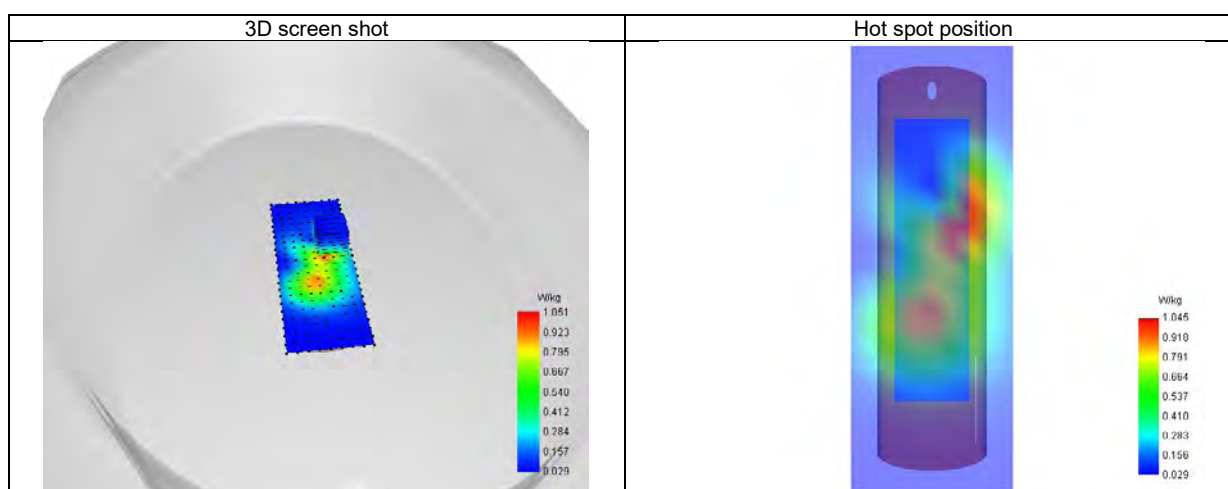
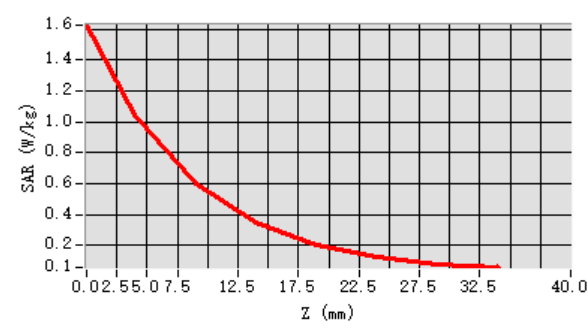
Test Date	2024-11-23
Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body back
Band	LTE Band 66
Channels	High
Frequency	1755
ConvF	1.91
Relative permittivity	38.81
Conductivity (S/m)	1.49



Maximum location: X=20.00, Y=29.00 ; SAR Peak: 1.63 W/kg

SAR 10g (W/Kg)	0.531
SAR 1g (W/Kg)	0.984
Variation (%)	-1.890
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	56.878866

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.627	1.051	0.598	0.345	0.206	0.127	0.081





Appendix C. Probe Calibration and Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※※END OF THE REPORT※※※※※