



SAR TEST REPORT

Product Name: 5G Smart phone

Model Name: OB-A98, TANK 4 Pro, SHARK 3

Issued For : Shenzhen OBLUE Communication Technology Co.,Ltd.
Room 702, Hepingdayou industrial and trade industrial park,
No. 41, Yonghe Road, Heping Community, Fuhai Street,
Baoan District, Shenzhen City,China

Issued By : Shenzhen LGT Test Service Co., Ltd.
Room 205, Building 13, Zone B, Zhenxiong Industrial Park,
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Date of Test: Sept. 02, 2024 ~Sept. 14, 2024

Date of Issue: Oct. 24, 2024

Head: 0.396 W/kg

Max. SAR (10g):
Body: 0.965 W/kg

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Table of Contents

1. General Information	5
1.1 EUT Description	5
1.2 Test Environment	8
1.3 Test Factory	8
2. Test Standards and Limits	9
3. SAR Measurement System	10
3.1 Definition of Specific Absorption Rate (SAR)	10
3.2 SAR System	10
4. Tissue Simulating Liquids	13
4.1 Simulating Liquids Parameter Check	13
5. SAR System Validation	15
5.1 Validation System	15
5.2 Validation Result	16
6. SAR Evaluation Procedures	17
7. EUT Test Position	18
7.1 Cheek Position	18
7.2 Tilt Position	19
7.3 Body-worn Position Conditions	19
8. Uncertainty	20
8.1 Measurement Uncertainty	20
9. Conducted Power Measurement	21
9.1 Test Result	21
9.2 Tune up power	64
10. Test Photos and Results	67
10.1 EUT Photos	67
10.2 Setup Photos	71
11. SAR Result Summary	77
11.1 Head SAR	77
11.2 Body SAR	82
11.3 Simultaneous Multi-band Transmission Evaluation	89
12. Equipment List	95
Appendix A. System Validation Plot	96
Appendix B. SAR Test Plots	124
Appendix C. Probe Calibration and Dipole Calibration Report	214



Revision History

Rev.	Issue Date	Contents
00	Oct. 24, 2024	Initial Issue



TEST REPORT CERTIFICATION

Applicant: Shenzhen OBLUE Communication Technology Co.,Ltd.
Room 702, Hepingdayou industrial and trade industrial park, No.
Address: 41, Yonghe Road, Heping Community, Fuhai Street, Baoan District,
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Manufacture: Shenzhen OBLUE Communication Technology Co.,Ltd.
Room 702, Hepingdayou industrial and trade industrial park, No.
Address: 41, Yonghe Road, Heping Community, Fuhai Street, Baoan District,
Shenzhen City,China

Product Name: 5G Smart phone

Trademark: 8849,Unihertz,iHunt

Model Name: OB-A98, TANK 4 Pro, SHARK 3

Sample number: LGT2409067-5

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
EN 50360:2017+A1:2023; EN 50566:2017+A1:2023; EN IEC/IEEE 62209-1528: 2021; EN 50663: 2017; EN 62479: 2010	PASS

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1. General Information

1.1 EUT Description

Product Name:	5G Smart phone
Trademark:	8849,Unihertz,iHunt
Model Name:	OB-A98
Series Model:	TANK 4 Pro, SHARK 3
Model Difference:	Different make and model.
Hardware Version	G98_V2.0
Software Version:	OB-A98_EEA_20240912
Frequency Range:	GSM 900: 880 ~ 915 MHz (TX), 925 ~ 960 MHz (RX) GSM 1800: 1710 ~ 1785 MHz (TX), 1805 ~ 1880 MHz (RX) WCDMA2100: 1920-1980 MHz (TX), 2110-2170 MHz (RX) WCDMA900: 880-915 MHz (TX), 925-960 MHz (RX) FDD LTE Band 1: 1920-1980 MHz (TX), 2110-2170 MHz (RX) FDD LTE Band 3: 1710-1785 MHz (TX), 1805-1880 MHz (RX) FDD LTE Band 7: 2500-2570 MHz (TX), 2620-2690 MHz (RX) FDD LTE Band 8: 880-915 MHz (TX), 925-960 MHz (RX) FDD LTE Band 20: 832-862 MHz (TX), 791-821 MHz (RX) FDD LTE Band 28: 703-748 MHz (TX), 758-803 MHz (RX) TDD LTE Band 34: 2010-2025 MHz (TRX) TDD LTE Band 38: 2570-2620 MHz (TRX) TDD LTE Band 40: 2300-2400 MHz (TRX) TDD LTE Band 42: 3400-3600 MHz (TRX) NR N1: 1920-1980 MHz (TX), 2110-2170 MHz (RX) NR N3: 1710-1785 MHz (TX), 1805-1880 MHz (RX) NR N7: 2500-2570 MHz (TX), 2620-2690 MHz (RX) NR N8: 880-915 MHz (TX), 925-960 MHz (RX) NR N20: 832-862 MHz (TX), 791-821 MHz (RX) NR N28: 703-736 MHz (TX), 758-791 MHz (RX) NR N38: 2570-2620 MHz (TRX) NR N40: 2300-2400 MHz (TRX) NR N41: 2500-2690 MHz (TRX) NR N77: 3400-4200 MHz (TRX) NR N78: 3400-3800 MHz (TRX) NSA B1+N78 NSA B3+N78 WLAN 802.11b/g/n20/ax20: 2412 to 2472 MHz WLAN 802.11n40/ax40: 2422 to 2462 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80/ax80: 5150 to 5250 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80/ax80: 5250 to 5350 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80/ax80: 5470 to 5725 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80/ax80: 5725 to 5850 MHz Bluetooth: 2402 MHz to 2480 MHz GPS: 1575.42MHz FM: 87.5 MHz to 108 MHz BDS: 1561.098MHz GLONASS: 1602 MHz GALILEO: 1575.42 MHz NFC: 13.56MHz



Max. Reported SAR (10g):	Mode	Head (W/kg)	Body Worn and Hotspot(W/Kg)
	GSM 900	0.075	0.580
	GSM 1800	0.020	0.800
	WCDMA Band I	0.150	0.601
	WCDMA Band VIII	0.150	0.270
	LTE Band 1	0.122	0.378
	LTE Band 3	0.050	0.565
	LTE Band 7	0.098	0.388
	LTE Band 8	0.071	0.234
	LTE Band 20	0.056	0.151
	LTE Band 28	0.069	0.154
	LTE Band 34	0.076	0.337
	LTE Band 38	0.075	0.212
	LTE Band 40	0.102	0.287
	LTE Band 42	0.031	0.357
	2.4GHz WLAN ANT 1	0.032	0.028
	2.4GHz WLAN ANT 2	0.020	0.022
	2.4GHz WLAN MIMO	0.046	0.051
	5.2GHz WLAN ANT 1	0.054	0.072
	5.2GHz WLAN ANT 2	0.052	0.090
	5.2GHz WLAN MIMO	0.100	0.127
	5.3GHz WLAN ANT 1	0.055	0.083
	5.3GHz WLAN ANT 2	0.084	0.043
	5.3GHz WLAN MIMO	0.102	0.106
	5.6GHz WLAN ANT 1	0.052	0.058
	5.6GHz WLAN ANT 2	0.051	0.055
	5.6GHz WLAN MIMO	0.097	0.121
	5.8GHz WLAN ANT 1	0.061	0.052
	5.8GHz WLAN ANT 2	0.063	0.078
	5.8GHz WLAN MIMO	0.110	0.121
	NR SA N1	0.191	0.309
	NR SA N3	0.231	0.393
	NR SA N7	0.396	0.224
	NR SA N8	0.059	0.066
	NR SA N20	0.043	0.083
	NR SA N28	0.037	0.056
	NR SA N38	0.236	0.277
	NR SA N40	0.016	0.019
	NR SA N41	0.159	0.197
	NR SA N77	0.042	0.352
	NR SA N78	0.027	0.400
	DC_A1_N78	0.164	0.778
	DC_A3_N78	0.092	0.965
	Limit	2.0 W/kg	



Battery:	Rated Voltage:7.74V Capacity: 5750mAh	
Description test modes:	SIM 1 and SIM 2 is a chipset unit and tested as single chipset, SIM 1 is used to tested	
Modulation Mode:	GSM	GMSK for GSM/GPRS
	WCDMA	QPSK; HSDPA: QPSK/16QAM; HSUPA: BPSK
	LTE	QPSK/16QAM
	NR	DFT-s-OFDM, CP-OFDM ($\pi/2$ shift BPSK, QPSK, 16QAM, 64QAM, 256QAM)
	2.4G WLAN	802.11b(DSSS): CCK, DQPSK, DBPSK 802.11g(OFDM): BPSK, QPSK,16-QAM,64-QAM 802.11n(OFDM): BPSK, QPSK,16-QAM,64-QAM 802.11ax (OFDM): BPSK, QPSK,16-QAM,64-QAM,256-QAM
	5G WLAN	802.11a/n(OFDM): BPSK, QPSK,16-QAM,64-QAM 802.11ac (OFDM): BPSK, QPSK,16-QAM,64-QAM,256-QAM 802.11ax (OFDM): BPSK, QPSK,16-QAM,64-QAM,256-QAM
	Bluetooth	BT(1Mbps): GFSK BT EDR(2Mbps): $\pi/4$ -DQPSK BT EDR(3Mbps): 8DPSK
	BLE	GFSK
	GPS	BPSK
	FM	FM
	BDS	QPSK
	GLONASS	FDMA
	GALILEO	CBOC
	NFC	ASK
Power Control Level:	GSM900: 5, DCS1800: 0	
Power Class:	GSM900: 4, GSM1800: 1	
Antenna Specification:	GSM/WCDMA/LTE/NR: FPC Antenna Bluetooth: FPC Antenna WLAN: FPC Antenna FM: Integrated Antenna GNSS: FPC Antenna NFC: Coil Antenna	
Operating Mode:	Maximum continuous output	



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	EN 50360:2017+ A1:2023	Product standard to demonstrate the compliance of wireless communication devices, with the basic restrictions and exposure limit values related to human exposure to electromagnetic fields in the frequency range from 300 MHz to 6 GHz: devices used next to the ear
2	EN 50566:2017+ A1:2023	Product standard to demonstrate the compliance of wireless communication devices with the basic restrictions and exposure limit values related to human exposure to electromagnetic fields in the frequency range from 30 MHz to 6 GHz: hand-held and body mounted devices in close proximity to the human body
3	EN IEC/IEEE 62209-1528: 2021	Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices Part 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz)
4	EN 50663: 2017	Generic standard for assessment of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (10MHz to 300GHz)
5	EN 62479: 2010	Assessment of the compliance of low-power electronic and electrical equipment with the restrictions related to human exposure to electromagnetic fields (10MHz to 300 GHz)

This device belongs to portable device category because its radiating structure is allowed to be used within 20 centimeters of the body of the user. According to EN 50360 and 1999/519/EC the limit for General Population/Uncontrolled exposure should be applied for this device, it is 2.0 W/kg as averaged over any 10 gram of tissue.

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

<u>Whole-Body</u>	<u>Partial-Body</u>	<u>Hands, Wrists, Feet and Ankles</u>
0.4	8.0	20.0

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

<u>Whole-Body</u>	<u>Partial-Body</u>	<u>Hands, Wrists, Feet and Ankles</u>
0.08	2.0	4.0

NOTE: **Whole-Body SAR** is averaged over the entire body, **partial-body SAR** is averaged over any 10 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
2.0 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

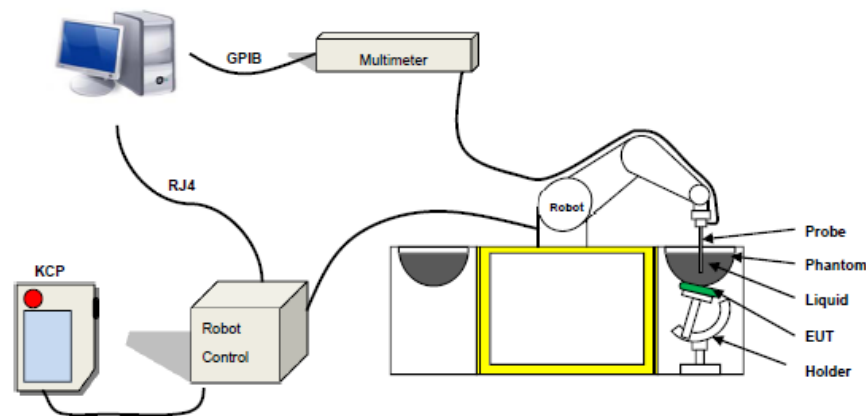
$$SAR = \frac{\sigma E^2}{\rho}$$

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 Open SAR software computes the results to give a SAR value in a 1g or 10g 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.

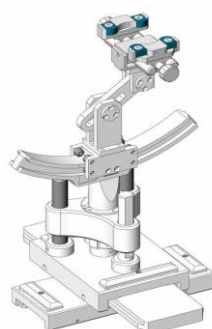


Figure-SN 06/22 SAM 148



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 10 g averaging, the maximum weighting coefficient for SAR is 0,5.

EN 62209 RECOMMENDED TISSUE DIELECTRIC PARAMETERS

The head and body tissue dielectric parameters recommended by the EN 62209 have been incorporated in the following table.

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



LIQUID MEASUREMENT RESULTS

Date	Ambient		Simulating Liquid		Parameters	Target	Measured	Deviation %	Limited %
	Temp. [°C]	Humidity %	Frequency (MHz)	Temp. [°C]					
2024-09-07	23.9	57	750	23.6	Permittivity	41.90	42.80	2.15	±10
					Conductivity	0.89	0.85	-4.49	±10
2024-09-02	21.4	52	835	21.1	Permittivity	41.50	41.23	-0.65	±10
					Conductivity	0.90	0.91	1.11	±10
2024-09-07	24	57	1800	23.6	Permittivity	40.00	41.28	3.20	±10
					Conductivity	1.40	1.39	-0.71	±10
2024-09-08	21.5	49	1900	21.2	Permittivity	40.00	41.41	3.52	±10
					Conductivity	1.40	1.42	1.43	±10
2024-09-09	22.7	59	2000	22.4	Permittivity	40.00	40.20	0.50	±10
					Conductivity	1.40	1.41	0.71	±10
2024-09-10	22.9	60	2300	22.6	Permittivity	39.47	39.92	1.15	±10
					Conductivity	1.67	1.68	0.80	±10
2024-09-09	22.7	59	2450	22.4	Permittivity	39.20	39.50	0.77	±10
					Conductivity	1.80	1.78	-1.11	±10
2024-09-03	23.5	59	2600	23.2	Permittivity	39.00	40.15	2.95	±10
					Conductivity	1.96	2.03	3.57	±10
2024-09-08	21.5	49	3500	21.1	Permittivity	37.90	38.07	0.45	±10
					Conductivity	2.91	2.95	1.37	±10
2024-09-10	23	60	3700	22.7	Permittivity	37.67	38.38	1.88	±10
					Conductivity	3.12	3.21	3.04	±10
2024-09-11	23.4	51	5200	23.1	Permittivity	36.00	36.94	2.61	±10
					Conductivity	4.66	4.64	-0.43	±10
2024-09-12	21	53	5400	20.8	Permittivity	35.80	36.10	0.84	±10
					Conductivity	4.86	4.85	-0.21	±10
2024-09-13	21.6	42	5600	21.3	Permittivity	35.55	36.34	2.22	±10
					Conductivity	5.07	5.04	-0.49	±10
2024-09-14	20.6	49	5800	20.3	Permittivity	35.30	35.81	1.44	±10
					Conductivity	5.27	5.21	-1.14	±10

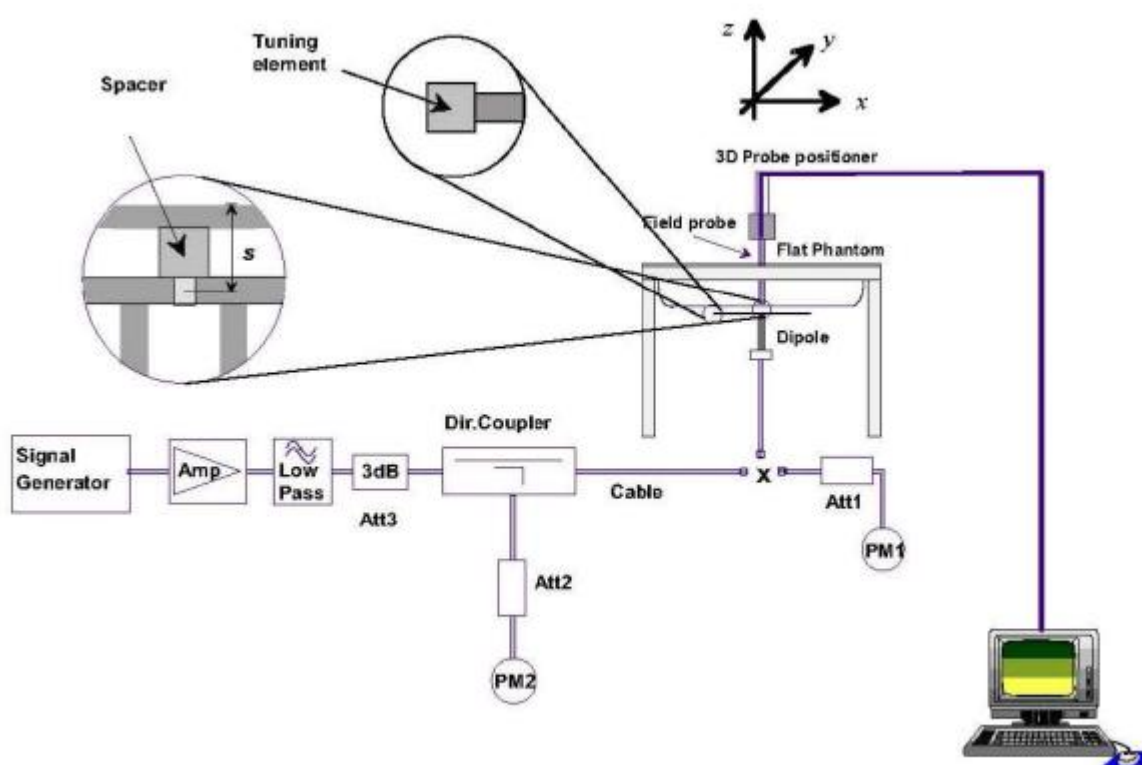


5. SAR System Validation

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.(MHz)	Power(mW)	Power drift(%)	Tested Value (W/Kg)	Normalized SAR(W/kg)	Target SAR10g(W/kg)	Tolerance(%)
2024-09-07	750	100	0.96	0.517	5.17	5.40	-4.26
2024-09-02	835	100	-3.01	0.627	6.27	6.16	1.79
2024-09-07	1800	100	-1.80	2.037	20.37	20.45	-0.39
2024-09-08	1900	100	-2.26	2.104	21.04	20.67	1.79
2024-09-09	2000	100	-0.64	2.062	20.62	20.89	-1.29
2024-09-10	2300	100	-3.27	2.353	23.53	23.09	1.91
2024-09-09	2450	100	-2.76	2.350	23.50	23.71	-0.89
2024-09-03	2600	100	2.50	2.439	24.39	24.15	0.99
2024-09-08	3500	100	3.79	2.521	25.21	25.38	-0.67
2024-09-10	3700	100	0.97	2.516	25.16	25.35	-0.75
2024-09-11	5200	100	-1.90	2.341	23.41	23.27	0.60
2024-09-12	5400	100	-2.45	2.413	24.13	24.20	-0.29
2024-09-13	5600	100	-3.22	2.382	23.82	23.39	1.84
2024-09-14	5800	100	1.92	2.338	23.38	23.72	-1.43



6. SAR Evaluation Procedures

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

- 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:

For handsets operating above 300 MHz evaluated with the homogeneous head model, the SAR distribution is measured on a two-dimensional coarse grid at a fixed separation distance of less than 8 mm from the surface of the phantom shell. The scan region should cover all areas that are exposed and encompassed by the projection of the handset. In order to maintain a fixed distance of less than 8 mm from the surface to within ± 1 mm, as required by the measurement protocol, the exact shape and dimensions of the phantom inner surface shall be known, pre-calibrated, or preferably detected during the SAR measurement with a mechanical or optical surface-detection mechanism that meets the probe positioning requirements. This evaluation technique determines the maximum spacing between the grid points, i.e., it has been found that a 20 mm $\times$ 20 mm grid is usually sufficient to achieve the required precision if two staggered one-dimensional cubic splines are used to locate the maximum SAR location;.

The maximum local SAR is evaluated on an interpolated grid at 1 mm to 2 mm resolution during the zoom scan. A zoom-scan volume of 32 mm $\times$ 32 mm $\times$ 30 mm, consisting of 5 $\times$ 5 $\times$ 7 points with the center at the peak SAR location determined during the area scan, can be chosen. Although a scan resolution of 8 mm is sufficient for directions parallel to the surface, 5 mm is needed in the direction normal to the surface of the phantom to achieve the required extrapolation accuracy.



7. EUT Test Position

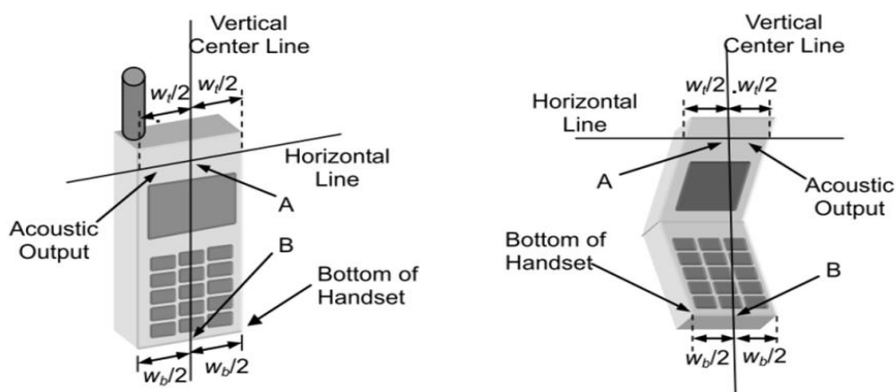
This EUT was tested in Right Cheek, Right Titled, Left Cheek, Left Titled, Front Face and Rear Face.

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.

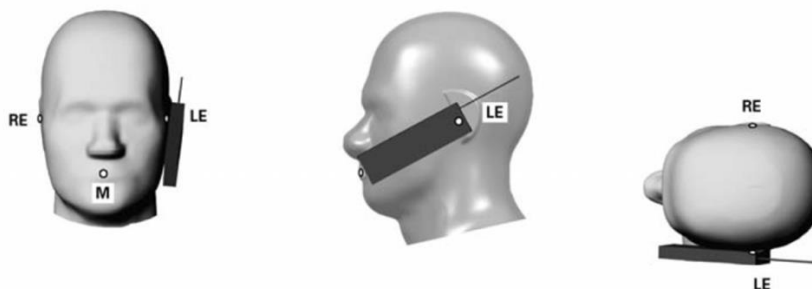
3) The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily to the front face of the handset, especially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



7.1 Cheek Position

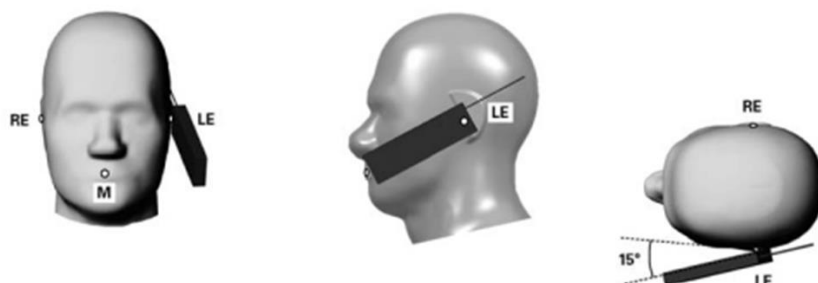
1) To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the earpiece with the line RE-LE.

2) To move the device towards the phantom with the earpiece 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.



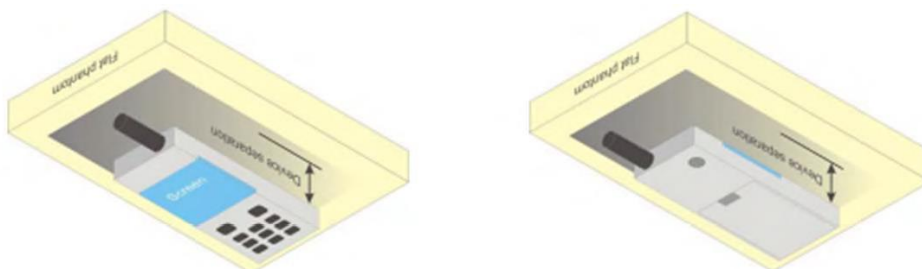
7.2 Tilt Position

- (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.



7.3 Body-worn Position Conditions

- 1) To position the EUT parallel to the phantom surface.
- 2) To adjust the EUT parallel to the flat phantom.
- 3) To adjust the distance between the EUT surface and the flat phantom to 5mm.





8. Uncertainty

8.1 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in EN/IEC IEC 62209-1528. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Symbol	Uncertainty Component	Prob. Dist.	Unc. $a(x_i)$	Div. q_i	$u(x_i) = a(x_i)/q_i$	C_i	$u(y) = C_i * u(x_i)$	v_i
Measurement system errors								
CF	Probe calibration	N ($k = 2$)	5.8	2	2.90	1	2.90	∞
CF _{drift}	Probe calibration drift	R	0.12	$\sqrt{3}$	0.07	1	0.07	∞
LIN	Probe linearity and detection limit	R	1.91	$\sqrt{3}$	1.10	1	1.10	∞
BBS	Broadband signal	R	0.15	$\sqrt{3}$	0.09	1	0.09	∞
ISO	Probe isotropy	R	0.18	$\sqrt{3}$	0.10	1	0.10	∞
DAE	Other probe and data acquisition errors	N	2.7	1	2.70	1	2.70	∞
AMB	RF ambient and noise	N	1.73	1	1.73	1	1.73	∞
Δ_{xyz}	Probe positioning errors	N	0.81	1	0.81	$2/\delta$	0.81	
DAT	Data processing errors	N	2.5	1	2.50	1	2.50	∞
Phantom and device (DUT or validation antenna) errors								
LIQ(σ)	Measurement of phantom conductivity(σ)	N	4.4	1	4.4	$c\epsilon, c\sigma$	4.40	∞
LIQ(T_c)	Temperature effects (medium)	R	2.9	$\sqrt{3}$	1.67	$c\epsilon, c\sigma$	1.67	∞
EPS	Shell permittivity	R	3.4	$\sqrt{3}$	1.96	See 8.4.2.3	0.49	∞
DIS	Distance between the radiating element of the DUT and the phantom medium	N	0.8	1	0.8	2	1.60	∞
D _{xyz}	Repeatability of positioning the DUT or source against the phantom	N	1.5	1	1.5	1	1.50	5
H	Device holder effects	N	3	1	3	1	3.00	
MOD	Effect of operating mode on probe sensitivity	R	3.59	$\sqrt{3}$	2.07	1	2.07	∞
TAS	Time-average SAR	R	1.73	$\sqrt{3}$	1.00	1	1.00	∞
RF _{drift}	Variation in SAR due to drift in output of DUT	N	2.89	1	2.89	1	2.89	
VAL	Validation antenna uncertainty (validation measurement only)	N	1.45	1	1.45	1	1.45	
P _{in}	Uncertainty in accepted power (validation measurement only)	N	2.5	1	2.5	1	2.50	
Corrections to the SAR result (if applied)								
C(ϵ', σ)	Phantom deviation from target (ϵ', σ)	N	2.31	1	2.31	1	2.31	
C(R)	SAR scaling	R	1.15	$\sqrt{3}$	0.66	1	0.66	
u(Δ SAR)	Combined uncertainty						9.53	
U	Expanded uncertainty and effective degrees of freedom					U =	19.06	



9. Conducted Power Measurement

9.1 Test Result

RF Output Power (dBm)						
Band	GSM 900			DCS 1800		
Channel	975	62	124	512	700	885
Frequency (MHz)	880.2	902.4	914.8	1710.2	1747.8	1784.8
GSM (GMSK, 1-Slot)	33.60	33.04	33.20	31.17	31.23	31.41
GPRS (GMSK, 1-Slot)	27.64	27.12	27.33	23.86	23.94	24.13
GPRS (GMSK, 2-Slot)	28.45	27.91	28.12	24.23	24.28	24.49
GPRS (GMSK, 3-Slot)	28.43	27.89	28.12	24.26	24.29	24.48
GPRS (GMSK, 4-Slot)	28.43	27.89	28.11	24.23	24.29	24.49
Remark: GPRS, CS4 coding scheme. Multi-Slot Class 8, Support Max 4 downlink, 1 uplink, 5 working link Multi-Slot Class 10, Support Max 4 downlink, 2 uplink, 5 working link Multi-Slot Class 12, Support Max 4 downlink, 4 uplink, 5 working link						

Frame- RF Output Power (dBm)						
Band	GSM 900			DCS 1800		
Channel	975	62	124	512	700	885
Frequency (MHz)	880.2	902.4	914.8	1710.2	1747.8	1784.8
GSM (GMSK, 1-Slot)	24.57	24.01	24.17	22.14	22.20	22.38
GPRS (GMSK, 1-Slot)	18.61	18.09	18.30	14.83	14.91	15.10
GPRS (GMSK, 2-Slot)	22.43	21.89	22.10	18.21	18.26	18.47
GPRS (GMSK, 3-Slot)	24.17	23.63	23.86	20.00	20.03	20.22
GPRS (GMSK, 4-Slot)	25.42	24.88	25.10	21.22	21.28	21.48
Remark: 1. SAR testing was performed on the maximum frame-averaged power mode. 2. The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum Burst-averaged power based on time slots. The calculated method is shown as below: Frame-averaged power = Burst averaged power (1 TX Slot) – 9.03 dB Frame-averaged power = Burst averaged power (2 TX Slots) – 6.02 dB Frame-averaged power = Burst averaged power (3 TX Slots) – 4.26 dB Frame-averaged power = Burst averaged power (4 TX Slots) – 3.01 dB						



WCDMA

As the SAR body tests for WCDMA, we established the radio link through call processing. The maximum output power were verified on high, middle and low channels for each test band according to 3GPP TS 34.121 with the following configuration: a 12.2kbps RMC, 64,144,384 kbps RMC with TPC set to all “all ‘1’s”b Test loop Mode 1

The following procedures had been used to prepare the EUT for the SAR test.

Band	WCDMA Band I			WCDMA Band VIII		
Channel	9612	9750	9888	2712	2787	2863
Frequency (MHz)	1922.4	1950	1977.6	882.4	897.4	912.6
RMC 12.2Kbps	24.02	23.96	23.98	24.04	23.99	23.93
HSDPA Subtest-1	23.09	23.07	23.12	23.06	23.07	22.97
HSDPA Subtest-2	22.71	22.66	22.59	22.52	22.78	22.43
HSDPA Subtest-3	21.37	21.49	21.40	21.62	21.65	21.49
HSDPA Subtest-4	21.72	21.37	21.84	21.65	21.70	21.42
HSUPA Subtest-1	22.88	22.85	22.88	21.96	22.83	22.79
HSUPA Subtest-2	22.98	22.76	22.92	22.86	22.93	22.77
HSUPA Subtest-3	21.69	21.79	21.66	21.16	21.49	21.76
HSUPA Subtest-4	23.13	23.11	23.16	23.06	23.03	22.99
HSUPA Subtest-5	22.37	22.14	22.60	21.59	22.35	22.25



WLAN (2.4G band)

- The client supplied a special driver to program the EUT, allowing it to continually transmit the specified maximum power and change the channel frequency.
- Maximum conducted power was measured by replacing the antenna with an adapter for conductive measurement.
- The conducted power was measured at the high, middle and low channel frequency before and after the SAR measurement.
- During SAR test, the highest output channel per band measured first, and then if necessary, the other channels were measured according to the normal procedures.

Output power (dBm):

2.4GWIFI					
Mode	Channel Number	Frequency (MHz)	ANT 1	ANT 2	MIMO
			Output Power (dBm)	Output Power (dBm)	Output Power (dBm)
802.11b	1	2412	14.29	13.89	N/A
	7	2442	15.05	14.28	N/A
	13	2472	13.94	13.17	N/A
802.11g	1	2412	13.62	13.50	N/A
	7	2442	14.21	13.76	N/A
	13	2472	13.46	12.73	N/A
802.11n-HT20	1	2412	11.84	11.15	12.81
	7	2442	12.62	11.71	13.27
	13	2472	11.59	10.65	12.16
802.11n-HT40	3	2422	12.33	11.74	12.91
	7	2442	12.56	11.61	13.07
	11	2462	11.98	11.44	12.82
802.11ax-HE20	1	2412	12.04	11.87	13.17
	7	2442	12.73	11.83	13.42
	13	2472	11.83	10.92	12.4
802.11ax-HE40	3	2422	12.48	11.97	13.18
	7	2442	12.75	11.91	13.23
	11	2462	12.22	11.75	13.07

5.2GHz WLAN

5.2G WLAN					
Mode	Channel Number	Frequency (MHz)	ANT 1	ANT 2	MIMO
			Output Power (dBm)	Output Power (dBm)	Output Power (dBm)
802.11a	36	5180	12.58	15.55	N/A
802.11n-HT20	36	5180	12.04	14.29	13.47
802.11n-HT40	38	5190	11.93	14.84	13.6
802.11ac80	42	5210	11.35	12.98	13.18
802.11ax80	42	5210	11.23	13.26	13.61



5.3GHz WLAN

5.3G WLAN					
Mode	Channel Number	Frequency (MHz)	ANT 1	ANT 2	MIMO
			Output Power (dBm)	Output Power (dBm)	Output Power (dBm)
802.11a	64	5320	13.45	15.41	N/A
802.11n-HT20	64	5320	12.35	14.43	13.26
802.11n-HT40	62	5310	12.65	14.64	13.52
802.11ac80	58	5290	11.38	13.29	13.35
802.11ax80	58	5290	11.63	13.51	13.76

5.6G WLAN

5.6G WLAN					
Mode	Channel Number	Frequency (MHz)	ANT 1	ANT 2	MIMO
			Output Power (dBm)	Output Power (dBm)	Output Power (dBm)
802.11a	100	5500	15.27	15.16	N/A
	140	5700	13.50	13.29	N/A
802.11n-HT20	100	5500	14.55	14.06	14.33
	140	5700	12.66	12.22	12.55
802.11n-HT40	102	5510	14.64	14.28	14.46
	134	5670	12.81	13.24	13.03
802.11ac80	106	5530	13.10	12.82	13.89
	122	5610	12.71	12.31	13.51
802.11ax80	106	5530	13.44	13.09	14.05
	122	5610	12.93	12.55	13.79

5.8G WLAN

5.8G WLAN					
Mode	Channel Number	Frequency (MHz)	ANT 1	ANT 2	MIMO
			Output Power (dBm)	Output Power (dBm)	Output Power (dBm)
802.11a	149	5745	12.93	12.38	N/A
	157	5785	12.25	13.07	N/A
	165	5825	12.01	12.38	N/A
802.11n-HT20	149	5745	11.76	11.49	10.68
	157	5785	11.17	12.01	10.48
	165	5825	10.93	11.34	10.38
802.11n-HT40	151	5755	12.00	11.80	10.93
	159	5795	11.06	12.04	10.6
802.11ac80	155	5775	11.60	11.52	10.64
802.11ax80	155	5775	11.89	11.82	10.79



Bluetooth

BT		
Mode	Output Power (dBm)	Output Power (mW)
GFSK(1Mbps)	7.96	6.25
QPSK(2Mbps)	5.18	3.30
8DPSK(3Mbps)	5.27	3.37

BLE

BLE		
Mode	Output Power (dBm)	Output Power (mW)
GFSK(1Mbps)	6.50	4.47
	7.71	5.90
	6.27	4.24
GFSK(2Mbps)	7.01	5.02
	7.73	5.93
	6.90	4.90

NFC

Mode	E-Filed(dBuV/m)	Output Power (dBm)	Output Power (mW)
NFC	55.64	-39.66	0.0001

*Note: According to EN50663 and EN 62479, the available antenna power of this EUT BT is **7.96dBm (6.25mW)**, NFC is **-39.66dBm (0.0001mW)**, this power is less than the defined low power exclusion level (P_{max} : **20 mW**), so BT and NFC and do not need stand-alone SAR.*



LTE output list

LTE Band	Channel Number	Bandwidth (MHz) and modulation	RB Set	Limit low (dBm)	Limit high (dBm)	Result (dBm)	verdict
1	18025	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.62	Passed
	18025	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.72	Passed
	18025	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.61	Passed
	18025	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.67	Passed
	18300	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.67	Passed
	18300	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.78	Passed
	18300	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.67	Passed
	18300	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.61	Passed
	18575	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.55	Passed
	18575	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.79	Passed
	18575	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.59	Passed
	18575	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.73	Passed
	18100	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.61	Passed
	18100	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.72	Passed
	18100	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.64	Passed
	18100	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.76	Passed
	18300	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.62	Passed
	18300	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.26	Passed
	18300	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.54	Passed
	18300	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.27	Passed
	18500	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.77	Passed
	18500	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.88	Passed
	18500	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.72	Passed
	18500	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.77	Passed



LTE Band	Channel Number	Bandwidth (MHz) and modulation	RB Set	Limit low (dBm)	Limit high (dBm)	Result (dBm)	verdict
3	19207	BW:1.4;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.69	Passed
	19207	BW:1.4;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.72	Passed
	19207	BW:1.4;QPSK	5(RB-Pos:LOW)	20.3	25.7	23.7	Passed
	19207	BW:1.4;QPSK	5(RB-Pos:LOW)	20.3	25.7	23.71	Passed
	19575	BW:1.4;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.76	Passed
	19575	BW:1.4;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.77	Passed
	19575	BW:1.4;QPSK	5(RB-Pos:LOW)	20.3	25.7	23.77	Passed
	19575	BW:1.4;QPSK	5(RB-Pos:LOW)	20.3	25.7	23.75	Passed
	19943	BW:1.4;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.81	Passed
	19943	BW:1.4;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.83	Passed
	19943	BW:1.4;QPSK	5(RB-Pos:LOW)	20.3	25.7	23.74	Passed
	19943	BW:1.4;QPSK	5(RB-Pos:LOW)	20.3	25.7	23.76	Passed
	19225	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.77	Passed
	19225	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.85	Passed
	19225	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.75	Passed
	19225	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.73	Passed
	19575	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.71	Passed
	19575	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.91	Passed
	19575	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.68	Passed
	19575	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.82	Passed
	19925	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.55	Passed
	19925	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.83	Passed
	19925	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.6	Passed
	19925	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.84	Passed
	19300	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.9	Passed
	19300	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.98	Passed
	19300	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.81	Passed
	19300	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.87	Passed
	19575	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.81	Passed
	19575	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.94	Passed
	19575	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.83	Passed
	19575	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.84	Passed
	19850	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.77	Passed
	19850	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.71	Passed
	19850	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.8	Passed
	19850	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.86	Passed



LTE Band	Channel Number	Bandwidth (MHz) and modulation	RB Set	Limit low (dBm)	Limit high (dBm)	Result (dBm)	verdict
7	20775	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	20.69	Passed
	20775	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	20.74	Passed
	20775	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	20.67	Passed
	20775	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	20.73	Passed
	21100	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	20.86	Passed
	21100	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	20.87	Passed
	21100	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	20.87	Passed
	21100	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	20.85	Passed
	21425	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	20.87	Passed
	21425	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	20.84	Passed
	21425	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	20.88	Passed
	21425	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	20.89	Passed
	20850	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	20.65	Passed
	20850	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	21.02	Passed
	20850	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	20.64	Passed
	20850	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	20.97	Passed
	21100	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	20.91	Passed
	21100	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	20.98	Passed
	21100	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	20.87	Passed
	21100	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	20.87	Passed
	21350	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	20.85	Passed
	21350	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	20.93	Passed
	21350	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	20.83	Passed
	21350	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	20.91	Passed



LTE Band	Channel Number	Bandwidth (MHz) and modulation	RB Set	Limit low (dBm)	Limit high (dBm)	Result (dBm)	verdict
8	21457	BW:1.4;QPSK	1(RB-Pos:LOW)	20.3	25.7	24.09	Passed
	21457	BW:1.4;QPSK	1(RB-Pos:HIGH)	20.3	25.7	24.12	Passed
	21457	BW:1.4;QPSK	5(RB-Pos:LOW)	20.3	25.7	24.01	Passed
	21457	BW:1.4;QPSK	5(RB-Pos:HIGH)	20.3	25.7	24.04	Passed
	21625	BW:1.4;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.94	Passed
	21625	BW:1.4;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.92	Passed
	21625	BW:1.4;QPSK	5(RB-Pos:LOW)	20.3	25.7	23.91	Passed
	21625	BW:1.4;QPSK	5(RB-Pos:HIGH)	20.3	25.7	23.91	Passed
	21793	BW:1.4;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.94	Passed
	21793	BW:1.4;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.92	Passed
	21793	BW:1.4;QPSK	5(RB-Pos:LOW)	20.3	25.7	23.86	Passed
	21793	BW:1.4;QPSK	5(RB-Pos:HIGH)	20.3	25.7	23.87	Passed
	21475	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	24.14	Passed
	21475	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	24.11	Passed
	21475	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	24.13	Passed
	21475	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	24.13	Passed
	21625	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	24.12	Passed
	21625	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	24.01	Passed
	21625	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	24.06	Passed
	21625	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.97	Passed
	21775	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	24.01	Passed
	21775	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	24.06	Passed
	21775	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.94	Passed
	21775	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.92	Passed
	21500	BW:10.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	24.17	Passed
	21500	BW:10.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	24.12	Passed
	21500	BW:10.0;QPSK	12(RB-Pos:LOW)	20.3	25.7	24.11	Passed
	21500	BW:10.0;QPSK	12(RB-Pos:LOW)	20.3	25.7	24.09	Passed
	21625	BW:10.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	24.04	Passed
	21625	BW:10.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	24.02	Passed
	21625	BW:10.0;QPSK	12(RB-Pos:LOW)	20.3	25.7	24.04	Passed
	21625	BW:10.0;QPSK	12(RB-Pos:LOW)	20.3	25.7	23.98	Passed
	21750	BW:10.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.91	Passed
	21750	BW:10.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.93	Passed
	21750	BW:10.0;QPSK	12(RB-Pos:LOW)	20.3	25.7	23.97	Passed
	21750	BW:10.0;QPSK	12(RB-Pos:LOW)	20.3	25.7	23.93	Passed



LTE Band	Channel Number	Bandwidth (MHz) and modulation	RB Set	Limit low (dBm)	Limit high (dBm)	Result (dBm)	verdict
20	24175	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.98	Passed
	24175	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	24.05	Passed
	24175	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	24.06	Passed
	24175	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	24.12	Passed
	24300	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	24.15	Passed
	24300	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	24.19	Passed
	24300	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	24.1	Passed
	24300	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	24.16	Passed
	24425	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.95	Passed
	24425	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.98	Passed
	24425	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	24.01	Passed
	24425	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.99	Passed
	24250	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	24.05	Passed
	24250	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	24.2	Passed
	24250	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	24.05	Passed
	24250	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	24.17	Passed
	24300	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	24.21	Passed
	24300	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	24.23	Passed
	24300	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	24.13	Passed
	24300	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	24.11	Passed
	24350	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	24.11	Passed
	24350	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	24.06	Passed
	24350	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	24.09	Passed
	24350	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	24.02	Passed



LTE Band	Channel Number	Bandwidth (MHz) and modulation	RB Set	Limit low (dBm)	Limit high (dBm)	Result (dBm)	verdict
28	27225	BW:3;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.93	Passed
	27225	BW:3;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.96	Passed
	27225	BW:3;QPSK	4(RB-Pos:LOW)	20.3	25.7	23.9	Passed
	27225	BW:3;QPSK	4(RB-Pos:LOW)	20.3	25.7	23.99	Passed
	27375	BW:3;QPSK	1(RB-Pos:LOW)	20.3	25.7	24.01	Passed
	27375	BW:3;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.99	Passed
	27375	BW:3;QPSK	4(RB-Pos:LOW)	20.3	25.7	24.04	Passed
	27375	BW:3;QPSK	4(RB-Pos:LOW)	20.3	25.7	23.98	Passed
	27645	BW:3;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.94	Passed
	27645	BW:3;QPSK	1(RB-Pos:LOW)	20.3	25.7	24.04	Passed
	27645	BW:3;QPSK	4(RB-Pos:LOW)	20.3	25.7	23.94	Passed
	27645	BW:3;QPSK	4(RB-Pos:LOW)	20.3	25.7	23.98	Passed
	27235	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	24.08	Passed
	27235	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	24.2	Passed
	27235	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	24.01	Passed
	27235	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	24.12	Passed
	27385	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	24.12	Passed
	27385	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	24.08	Passed
	27385	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	24.1	Passed
	27385	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	24.07	Passed
	27635	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.91	Passed
	27635	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	24.09	Passed
	27635	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	24	Passed
	27635	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	24.1	Passed
	27310	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	24.04	Passed
	27310	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	24.32	Passed
	27310	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	24.01	Passed
	27310	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	24.24	Passed
	27460	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	24.15	Passed
	27460	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	24.16	Passed
	27460	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	24.1	Passed
	27460	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	24.05	Passed
	27560	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	24.03	Passed
	27560	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	24.14	Passed
	27560	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.96	Passed
	27560	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	24.14	Passed



LTE Band	Channel Number	Bandwidth (MHz) and modulation	RB Set	Limit low (dBm)	Limit high (dBm)	Result (dBm)	verdict
34	36225	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.72	Passed
	36225	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.75	Passed
	36225	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.72	Passed
	36225	BW:5.0;QPSK	8(RB-Pos:HIGH)	20.3	25.7	23.75	Passed
	36275	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.75	Passed
	36275	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.82	Passed
	36275	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.76	Passed
	36275	BW:5.0;QPSK	8(RB-Pos:HIGH)	20.3	25.7	23.79	Passed
	36325	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.82	Passed
	36325	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.98	Passed
	36325	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.71	Passed
	36325	BW:5.0;QPSK	8(RB-Pos:HIGH)	20.3	25.7	23.88	Passed
	36275	BW:15.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	24.06	Passed
	36275	BW:15.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	24.18	Passed
	36275	BW:15.0;QPSK	16(RB-Pos:LOW)	20.3	25.7	23.83	Passed
	36275	BW:15.0;QPSK	16(RB-Pos:HIGH)	20.3	25.7	23.86	Passed



LTE Band	Channel Number	Bandwidth (MHz) and modulation	RB Set	Limit low (dBm)	Limit high (dBm)	Result (dBm)	verdict
38	37775	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	20.75	Passed
	37775	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	20.77	Passed
	37775	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	20.77	Passed
	37775	BW:5.0;QPSK	8(RB-Pos:HIGH)	20.3	25.7	20.75	Passed
	38000	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	20.8	Passed
	38000	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	20.93	Passed
	38000	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	20.86	Passed
	38000	BW:5.0;QPSK	8(RB-Pos:HIGH)	20.3	25.7	20.94	Passed
	38225	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	20.62	Passed
	38225	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	21.01	Passed
	38225	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	20.79	Passed
	38225	BW:5.0;QPSK	8(RB-Pos:HIGH)	20.3	25.7	20.99	Passed
	37850	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	20.77	Passed
	37850	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	20.86	Passed
	37850	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	20.75	Passed
	37850	BW:20.0;QPSK	18(RB-Pos:HIGH)	20.3	25.7	20.84	Passed
	38000	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	20.84	Passed
	38000	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	21.04	Passed
	38000	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	20.8	Passed
	38000	BW:20.0;QPSK	18(RB-Pos:HIGH)	20.3	25.7	20.95	Passed
	38150	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	20.98	Passed
	38150	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	21.06	Passed
	38150	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	20.88	Passed
	38150	BW:20.0;QPSK	18(RB-Pos:HIGH)	20.3	25.7	20.94	Passed



LTE Band	Channel Number	Bandwidth (MHz) and modulation	RB Set	Limit low (dBm)	Limit high (dBm)	Result (dBm)	verdict
40	38675	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.8	Passed
	38675	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	24	Passed
	38675	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.87	Passed
	38675	BW:5.0;QPSK	8(RB-Pos:HIGH)	20.3	25.7	24.02	Passed
	39150	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.49	Passed
	39150	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.77	Passed
	39150	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.43	Passed
	39150	BW:5.0;QPSK	8(RB-Pos:HIGH)	20.3	25.7	23.7	Passed
	39625	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.69	Passed
	39625	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.91	Passed
	39625	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.75	Passed
	39625	BW:5.0;QPSK	8(RB-Pos:HIGH)	20.3	25.7	23.94	Passed
	38750	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.85	Passed
	38750	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.92	Passed
	38750	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.89	Passed
	38750	BW:20.0;QPSK	18(RB-Pos:HIGH)	20.3	25.7	23.93	Passed
	39150	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.48	Passed
	39150	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.55	Passed
	39150	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.52	Passed
	39150	BW:20.0;QPSK	18(RB-Pos:HIGH)	20.3	25.7	23.62	Passed
	39550	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	24.09	Passed
	39550	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	24.15	Passed
	39550	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.87	Passed
	39550	BW:20.0;QPSK	18(RB-Pos:HIGH)	20.3	25.7	23.91	Passed



LTE Band	Channel Number	Bandwidth (MHz) and modulation	RB Set	Limit low (dBm)	Limit high (dBm)	Result (dBm)	verdict
42	41615	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	21.88	Passed
	41615	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	21.85	Passed
	41615	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	21.85	Passed
	41615	BW:5.0;QPSK	8(RB-Pos:HIGH)	20.3	25.7	21.85	Passed
	42590	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	21.92	Passed
	42590	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	21.88	Passed
	42590	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	21.9	Passed
	42590	BW:5.0;QPSK	8(RB-Pos:HIGH)	20.3	25.7	21.89	Passed
	43565	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	21.84	Passed
	43565	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	21.8	Passed
	43565	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	21.78	Passed
	43565	BW:5.0;QPSK	8(RB-Pos:HIGH)	20.3	25.7	21.77	Passed
	41690	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	21.92	Passed
	41690	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	21.78	Passed
	41690	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	21.9	Passed
	41690	BW:20.0;QPSK	18(RB-Pos:HIGH)	20.3	25.7	21.77	Passed
	42590	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.03	Passed
	42590	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	21.9	Passed
	42590	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	21.94	Passed
	42590	BW:20.0;QPSK	18(RB-Pos:HIGH)	20.3	25.7	21.85	Passed
	43490	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	21.8	Passed
	43490	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	21.69	Passed
	43490	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	21.73	Passed
	43490	BW:20.0;QPSK	18(RB-Pos:HIGH)	20.3	25.7	21.68	Passed



SA output list

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Power (dBm)	Verdict
n1	15	5	384500	12@6	DFT_BPSK	22.84	PASS
n1	15	5	384500	1@1	DFT_BPSK	22.77	PASS
n1	15	5	384500	1@23	DFT_BPSK	22.72	PASS
n1	15	5	384500	12@6	DFT_QPSK	22.9	PASS
n1	15	5	384500	1@1	DFT_QPSK	22.68	PASS
n1	15	5	384500	1@23	DFT_QPSK	22.67	PASS
n1	15	5	390000	12@6	DFT_BPSK	22.62	PASS
n1	15	5	390000	1@1	DFT_BPSK	22.45	PASS
n1	15	5	390000	1@23	DFT_BPSK	22.57	PASS
n1	15	5	390000	12@6	DFT_QPSK	22.69	PASS
n1	15	5	390000	1@1	DFT_QPSK	22.38	PASS
n1	15	5	390000	1@23	DFT_QPSK	22.46	PASS
n1	15	5	395500	12@6	DFT_BPSK	22.88	PASS
n1	15	5	395500	1@1	DFT_BPSK	22.7	PASS
n1	15	5	395500	1@23	DFT_BPSK	22.8	PASS
n1	15	5	395500	12@6	DFT_QPSK	22.94	PASS
n1	15	5	395500	1@1	DFT_QPSK	22.59	PASS
n1	15	5	395500	1@23	DFT_QPSK	22.55	PASS
n1	15	25	386500	64@32	DFT_BPSK	22.82	PASS
n1	15	25	386500	1@1	DFT_BPSK	22.75	PASS
n1	15	25	386500	1@131	DFT_BPSK	22.61	PASS
n1	15	25	386500	64@32	DFT_QPSK	22.79	PASS
n1	15	25	386500	1@1	DFT_QPSK	22.65	PASS
n1	15	25	386500	1@131	DFT_QPSK	22.49	PASS
n1	15	25	390000	64@32	DFT_BPSK	22.71	PASS
n1	15	25	390000	1@1	DFT_BPSK	22.5	PASS
n1	15	25	390000	1@131	DFT_BPSK	22.83	PASS
n1	15	25	390000	64@32	DFT_QPSK	22.75	PASS
n1	15	25	390000	1@1	DFT_QPSK	22.45	PASS
n1	15	25	390000	1@131	DFT_QPSK	22.77	PASS
n1	15	25	393500	64@32	DFT_BPSK	22.97	PASS
n1	15	25	393500	1@1	DFT_BPSK	22.59	PASS
n1	15	25	393500	1@131	DFT_BPSK	22.93	PASS
n1	15	25	393500	64@32	DFT_QPSK	22.96	PASS
n1	15	25	393500	1@1	DFT_QPSK	22.52	PASS
n1	15	25	393500	1@131	DFT_QPSK	22.73	PASS
n1	15	50	389000	135@67	DFT_BPSK	22.65	PASS
n1	15	50	389000	1@1	DFT_BPSK	22.69	PASS
n1	15	50	389000	1@268	DFT_BPSK	23.01	PASS
n1	15	50	389000	135@67	DFT_QPSK	22.7	PASS
n1	15	50	389000	1@1	DFT_QPSK	22.6	PASS
n1	15	50	389000	1@268	DFT_QPSK	22.89	PASS
n1	15	50	390000	135@67	DFT_BPSK	22.69	PASS
n1	15	50	390000	1@1	DFT_BPSK	22.68	PASS
n1	15	50	390000	1@268	DFT_BPSK	22.94	PASS
n1	15	50	390000	135@67	DFT_QPSK	22.71	PASS
n1	15	50	390000	1@1	DFT_QPSK	22.6	PASS
n1	15	50	390000	1@268	DFT_QPSK	22.78	PASS



n1	15	50	391000	135@67	DFT_BPSK	22.76	PASS
n1	15	50	391000	1@1	DFT_BPSK	22.61	PASS
n1	15	50	391000	1@268	DFT_BPSK	23.02	PASS
n1	15	50	391000	135@67	DFT_QPSK	22.79	PASS
n1	15	50	391000	1@1	DFT_QPSK	22.55	PASS
n1	15	50	391000	1@268	DFT_QPSK	22.86	PASS



Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Power (dBm)	Verdict
n3	15	5	342500	12@6	DFT_BPSK	22.72	PASS
n3	15	5	342500	1@1	DFT_BPSK	22.6	PASS
n3	15	5	342500	1@23	DFT_BPSK	22.64	PASS
n3	15	5	342500	12@6	DFT_QPSK	22.8	PASS
n3	15	5	342500	1@1	DFT_QPSK	22.52	PASS
n3	15	5	342500	1@23	DFT_QPSK	22.56	PASS
n3	15	5	349500	12@6	DFT_BPSK	23.03	PASS
n3	15	5	349500	1@1	DFT_BPSK	22.92	PASS
n3	15	5	349500	1@23	DFT_BPSK	22.96	PASS
n3	15	5	349500	12@6	DFT_QPSK	23.39	PASS
n3	15	5	349500	1@1	DFT_QPSK	22.91	PASS
n3	15	5	349500	1@23	DFT_QPSK	22.91	PASS
n3	15	5	356500	12@6	DFT_BPSK	23	PASS
n3	15	5	356500	1@1	DFT_BPSK	22.88	PASS
n3	15	5	356500	1@23	DFT_BPSK	22.84	PASS
n3	15	5	356500	12@6	DFT_QPSK	23.06	PASS
n3	15	5	356500	1@1	DFT_QPSK	23.35	PASS
n3	15	5	356500	1@23	DFT_QPSK	22.83	PASS
n3	15	20	344000	50@25	DFT_BPSK	23.12	PASS
n3	15	20	344000	1@1	DFT_BPSK	23.11	PASS
n3	15	20	344000	1@104	DFT_BPSK	23.1	PASS
n3	15	20	344000	50@25	DFT_QPSK	23.12	PASS
n3	15	20	344000	1@1	DFT_QPSK	22.57	PASS
n3	15	20	344000	1@104	DFT_QPSK	22.96	PASS
n3	15	20	349500	50@25	DFT_BPSK	23.08	PASS
n3	15	20	349500	1@1	DFT_BPSK	23	PASS
n3	15	20	349500	1@104	DFT_BPSK	22.95	PASS
n3	15	20	349500	50@25	DFT_QPSK	23.08	PASS
n3	15	20	349500	1@1	DFT_QPSK	22.94	PASS
n3	15	20	349500	1@104	DFT_QPSK	22.92	PASS
n3	15	20	355000	50@25	DFT_BPSK	23.14	PASS
n3	15	20	355000	1@1	DFT_BPSK	23.02	PASS
n3	15	20	355000	1@104	DFT_BPSK	22.92	PASS
n3	15	20	355000	50@25	DFT_QPSK	23.23	PASS
n3	15	20	355000	1@1	DFT_QPSK	23.03	PASS
n3	15	20	355000	1@104	DFT_QPSK	22.92	PASS
n3	15	30	345000	80@40	DFT_BPSK	23	PASS
n3	15	30	345000	1@1	DFT_BPSK	22.69	PASS
n3	15	30	345000	1@158	DFT_BPSK	23.23	PASS
n3	15	30	345000	80@40	DFT_QPSK	23	PASS
n3	15	30	345000	1@1	DFT_QPSK	22.65	PASS
n3	15	30	345000	1@158	DFT_QPSK	23.18	PASS
n3	15	30	349500	80@40	DFT_BPSK	23.12	PASS
n3	15	30	349500	1@1	DFT_BPSK	22.93	PASS
n3	15	30	349500	1@158	DFT_BPSK	23.1	PASS
n3	15	30	349500	80@40	DFT_QPSK	23.15	PASS
n3	15	30	349500	1@1	DFT_QPSK	22.87	PASS
n3	15	30	349500	1@158	DFT_QPSK	23.06	PASS
n3	15	30	354000	80@40	DFT_BPSK	23.14	PASS



n3	15	30	354000	1@1	DFT_BPSK	22.89	PASS
n3	15	30	354000	1@158	DFT_BPSK	22.96	PASS
n3	15	30	354000	80@40	DFT_QPSK	23.11	PASS
n3	15	30	354000	1@1	DFT_QPSK	22.86	PASS
n3	15	30	354000	1@158	DFT_QPSK	22.88	PASS



Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Power (dBm)	Verdict
n7	15	5	500500	12@6	DFT_BPSK	22.47	PASS
n7	15	5	500500	1@1	DFT_BPSK	22.3	PASS
n7	15	5	500500	1@23	DFT_BPSK	22.28	PASS
n7	15	5	500500	12@6	DFT_QPSK	22.53	PASS
n7	15	5	500500	1@1	DFT_QPSK	22.11	PASS
n7	15	5	500500	1@23	DFT_QPSK	22.13	PASS
n7	15	5	507000	12@6	DFT_BPSK	22.25	PASS
n7	15	5	507000	1@1	DFT_BPSK	22.1	PASS
n7	15	5	507000	1@23	DFT_BPSK	22.17	PASS
n7	15	5	507000	12@6	DFT_QPSK	22.31	PASS
n7	15	5	507000	1@1	DFT_QPSK	21.97	PASS
n7	15	5	507000	1@23	DFT_QPSK	22.02	PASS
n7	15	5	513500	12@6	DFT_BPSK	22.58	PASS
n7	15	5	513500	1@1	DFT_BPSK	22.71	PASS
n7	15	5	513500	1@23	DFT_BPSK	22.15	PASS
n7	15	5	513500	12@6	DFT_QPSK	22.34	PASS
n7	15	5	513500	1@1	DFT_QPSK	22.45	PASS
n7	15	5	513500	1@23	DFT_QPSK	21.95	PASS
n7	15	15	501500	36@18	DFT_BPSK	22.25	PASS
n7	15	15	501500	1@1	DFT_BPSK	22.3	PASS
n7	15	15	501500	1@77	DFT_BPSK	22.02	PASS
n7	15	15	501500	36@18	DFT_QPSK	22.32	PASS
n7	15	15	501500	1@1	DFT_QPSK	22.16	PASS
n7	15	15	501500	1@77	DFT_QPSK	21.95	PASS
n7	15	15	507000	36@18	DFT_BPSK	22.31	PASS
n7	15	15	507000	1@1	DFT_BPSK	22.2	PASS
n7	15	15	507000	1@77	DFT_BPSK	22.31	PASS
n7	15	15	507000	36@18	DFT_QPSK	22.32	PASS
n7	15	15	507000	1@1	DFT_QPSK	22.07	PASS
n7	15	15	507000	1@77	DFT_QPSK	22.18	PASS
n7	15	15	512500	36@18	DFT_BPSK	22.87	PASS
n7	15	15	512500	1@1	DFT_BPSK	22.64	PASS
n7	15	15	512500	1@77	DFT_BPSK	22.28	PASS
n7	15	15	512500	36@18	DFT_QPSK	22.94	PASS
n7	15	15	512500	1@1	DFT_QPSK	22.43	PASS
n7	15	15	512500	1@77	DFT_QPSK	22.07	PASS
n7	15	20	502000	50@25	DFT_BPSK	22.26	PASS
n7	15	20	502000	1@1	DFT_BPSK	22.31	PASS
n7	15	20	502000	1@104	DFT_BPSK	22.02	PASS
n7	15	20	502000	50@25	DFT_QPSK	22.27	PASS
n7	15	20	502000	1@1	DFT_QPSK	22.17	PASS
n7	15	20	502000	1@104	DFT_QPSK	21.89	PASS
n7	15	20	507000	50@25	DFT_BPSK	22.29	PASS
n7	15	20	507000	1@1	DFT_BPSK	22.07	PASS
n7	15	20	507000	1@104	DFT_BPSK	22.3	PASS
n7	15	20	507000	50@25	DFT_QPSK	22.25	PASS
n7	15	20	507000	1@1	DFT_QPSK	21.95	PASS
n7	15	20	507000	1@104	DFT_QPSK	22.13	PASS
n7	15	20	512000	50@25	DFT_BPSK	22.87	PASS



n7	15	20	512000	1@1	DFT_BPSK	22.39	PASS
n7	15	20	512000	1@104	DFT_BPSK	21.97	PASS
n7	15	20	512000	50@25	DFT_QPSK	22.77	PASS
n7	15	20	512000	1@1	DFT_QPSK	22.22	PASS
n7	15	20	512000	1@104	DFT_QPSK	21.8	PASS



Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Power (dBm)	Verdict
n8	15	5	176500	12@6	DFT_BPSK	22.83	PASS
n8	15	5	176500	1@1	DFT_BPSK	22.77	PASS
n8	15	5	176500	1@23	DFT_BPSK	22.67	PASS
n8	15	5	176500	12@6	DFT_QPSK	22.86	PASS
n8	15	5	176500	1@1	DFT_QPSK	22.73	PASS
n8	15	5	176500	1@23	DFT_QPSK	22.65	PASS
n8	15	5	179500	12@6	DFT_BPSK	23.18	PASS
n8	15	5	179500	1@1	DFT_BPSK	22.91	PASS
n8	15	5	179500	1@23	DFT_BPSK	23.32	PASS
n8	15	5	179500	12@6	DFT_QPSK	22.23	PASS
n8	15	5	179500	1@1	DFT_QPSK	22.89	PASS
n8	15	5	179500	1@23	DFT_QPSK	23.27	PASS
n8	15	5	182500	12@6	DFT_BPSK	23.39	PASS
n8	15	5	182500	1@1	DFT_BPSK	23.39	PASS
n8	15	5	182500	1@23	DFT_BPSK	23.19	PASS
n8	15	5	182500	12@6	DFT_QPSK	23.47	PASS
n8	15	5	182500	1@1	DFT_QPSK	23.31	PASS
n8	15	5	182500	1@23	DFT_QPSK	23.02	PASS
n8	15	15	177500	36@18	DFT_BPSK	22.71	PASS
n8	15	15	177500	1@1	DFT_BPSK	22.92	PASS
n8	15	15	177500	1@77	DFT_BPSK	22.95	PASS
n8	15	15	177500	36@18	DFT_QPSK	22.81	PASS
n8	15	15	177500	1@1	DFT_QPSK	22.89	PASS
n8	15	15	177500	1@77	DFT_QPSK	22.9	PASS
n8	15	15	179500	36@18	DFT_BPSK	23.15	PASS
n8	15	15	179500	1@1	DFT_BPSK	22.66	PASS
n8	15	15	179500	1@77	DFT_BPSK	23.56	PASS
n8	15	15	179500	36@18	DFT_QPSK	23.17	PASS
n8	15	15	179500	1@1	DFT_QPSK	22.56	PASS
n8	15	15	179500	1@77	DFT_QPSK	23.5	PASS
n8	15	15	181500	36@18	DFT_BPSK	23.59	PASS
n8	15	15	181500	1@1	DFT_BPSK	23.37	PASS
n8	15	15	181500	1@77	DFT_BPSK	23.26	PASS
n8	15	15	181500	36@18	DFT_QPSK	23.6	PASS
n8	15	15	181500	1@1	DFT_QPSK	23.37	PASS
n8	15	15	181500	1@77	DFT_QPSK	23.12	PASS
n8	15	20	178000	50@25	DFT_BPSK	22.82	PASS
n8	15	20	178000	1@1	DFT_BPSK	22.85	PASS
n8	15	20	178000	1@104	DFT_BPSK	23.39	PASS
n8	15	20	178000	50@25	DFT_QPSK	22.82	PASS
n8	15	20	178000	1@1	DFT_QPSK	23.17	PASS
n8	15	20	178000	1@104	DFT_QPSK	23.4	PASS
n8	15	20	179500	50@25	DFT_BPSK	23.22	PASS
n8	15	20	179500	1@1	DFT_BPSK	22.62	PASS
n8	15	20	179500	1@104	DFT_BPSK	23.54	PASS
n8	15	20	179500	50@25	DFT_QPSK	23.19	PASS
n8	15	20	179500	1@1	DFT_QPSK	22.62	PASS
n8	15	20	179500	1@104	DFT_QPSK	23.48	PASS
n8	15	20	181000	50@25	DFT_BPSK	23.14	PASS



n8	15	20	181000	1@1	DFT_BPSK	22.9	PASS
n8	15	20	181000	1@104	DFT_BPSK	23.15	PASS
n8	15	20	181000	50@25	DFT_QPSK	22.73	PASS
n8	15	20	181000	1@1	DFT_QPSK	23.08	PASS
n8	15	20	181000	1@104	DFT_QPSK	22.73	PASS



Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Power (dBm)	Verdict
n20	15	5	166900	12@6	DFT_BPSK	22.96	PASS
n20	15	5	166900	1@1	DFT_BPSK	22.79	PASS
n20	15	5	166900	1@23	DFT_BPSK	22.83	PASS
n20	15	5	166900	12@6	DFT_QPSK	22.99	PASS
n20	15	5	166900	1@1	DFT_QPSK	22.69	PASS
n20	15	5	166900	1@23	DFT_QPSK	22.71	PASS
n20	15	5	169400	12@6	DFT_BPSK	22.03	PASS
n20	15	5	169400	1@1	DFT_BPSK	22.14	PASS
n20	15	5	169400	1@23	DFT_BPSK	21.84	PASS
n20	15	5	169400	12@6	DFT_QPSK	22.12	PASS
n20	15	5	169400	1@1	DFT_QPSK	22.14	PASS
n20	15	5	169400	1@23	DFT_QPSK	21.75	PASS
n20	15	5	171900	12@6	DFT_BPSK	22.11	PASS
n20	15	5	171900	1@1	DFT_BPSK	21.86	PASS
n20	15	5	171900	1@23	DFT_BPSK	22.28	PASS
n20	15	5	171900	12@6	DFT_QPSK	22.16	PASS
n20	15	5	171900	1@1	DFT_QPSK	21.84	PASS
n20	15	5	171900	1@23	DFT_QPSK	22.21	PASS
n20	15	15	167900	36@18	DFT_BPSK	22.78	PASS
n20	15	15	167900	1@1	DFT_BPSK	22.74	PASS
n20	15	15	167900	1@77	DFT_BPSK	22.07	PASS
n20	15	15	167900	36@18	DFT_QPSK	22.81	PASS
n20	15	15	167900	1@1	DFT_QPSK	22.69	PASS
n20	15	15	167900	1@77	DFT_QPSK	22.07	PASS
n20	15	15	169400	36@18	DFT_BPSK	22.11	PASS
n20	15	15	169400	1@1	DFT_BPSK	22.6	PASS
n20	15	15	169400	1@77	DFT_BPSK	21.7	PASS
n20	15	15	169400	36@18	DFT_QPSK	22.17	PASS
n20	15	15	169400	1@1	DFT_QPSK	22.53	PASS
n20	15	15	169400	1@77	DFT_QPSK	21.62	PASS
n20	15	15	170900	36@18	DFT_BPSK	21.81	PASS
n20	15	15	170900	1@1	DFT_BPSK	21.94	PASS
n20	15	15	170900	1@77	DFT_BPSK	22.31	PASS
n20	15	15	170900	36@18	DFT_QPSK	21.83	PASS
n20	15	15	170900	1@1	DFT_QPSK	21.92	PASS
n20	15	15	170900	1@77	DFT_QPSK	22.25	PASS
n20	15	20	168400	50@25	DFT_BPSK	22.6	PASS
n20	15	20	168400	1@1	DFT_BPSK	22.72	PASS
n20	15	20	168400	1@104	DFT_BPSK	21.7	PASS
n20	15	20	168400	50@25	DFT_QPSK	22.61	PASS
n20	15	20	168400	1@1	DFT_QPSK	22.67	PASS
n20	15	20	168400	1@104	DFT_QPSK	21.64	PASS
n20	15	20	169400	50@25	DFT_BPSK	22.12	PASS
n20	15	20	169400	1@1	DFT_BPSK	22.76	PASS
n20	15	20	169400	1@104	DFT_BPSK	21.82	PASS
n20	15	20	169400	50@25	DFT_QPSK	22.12	PASS
n20	15	20	169400	1@1	DFT_QPSK	22.66	PASS
n20	15	20	169400	1@104	DFT_QPSK	21.76	PASS
n20	15	20	170400	50@25	DFT_BPSK	21.84	PASS



n20	15	20	170400	1@1	DFT_BPSK	22.36	PASS
n20	15	20	170400	1@104	DFT_BPSK	22.24	PASS
n20	15	20	170400	50@25	DFT_QPSK	21.86	PASS
n20	15	20	170400	1@1	DFT_QPSK	22.35	PASS
n20	15	20	170400	1@104	DFT_QPSK	22.21	PASS



Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Power (dBm)	Verdict
n28(703-736)	15	5	141100	12@6	DFT_BPSK	22.65	PASS
n28(703-736)	15	5	141100	1@1	DFT_BPSK	22.7	PASS
n28(703-736)	15	5	141100	1@23	DFT_BPSK	22.39	PASS
n28(703-736)	15	5	141100	12@6	DFT_QPSK	22.74	PASS
n28(703-736)	15	5	141100	1@1	DFT_QPSK	22.52	PASS
n28(703-736)	15	5	141100	1@23	DFT_QPSK	22.28	PASS
n28(703-736)	15	5	143900	12@6	DFT_BPSK	22.7	PASS
n28(703-736)	15	5	143900	1@1	DFT_BPSK	22.48	PASS
n28(703-736)	15	5	143900	1@23	DFT_BPSK	22.82	PASS
n28(703-736)	15	5	143900	12@6	DFT_QPSK	22.73	PASS
n28(703-736)	15	5	143900	1@1	DFT_QPSK	22.44	PASS
n28(703-736)	15	5	143900	1@23	DFT_QPSK	22.76	PASS
n28(703-736)	15	5	146700	12@6	DFT_BPSK	23.76	PASS
n28(703-736)	15	5	146700	1@1	DFT_BPSK	23.63	PASS
n28(703-736)	15	5	146700	1@23	DFT_BPSK	23.58	PASS
n28(703-736)	15	5	146700	12@6	DFT_QPSK	23.78	PASS
n28(703-736)	15	5	146700	1@1	DFT_QPSK	23.53	PASS
n28(703-736)	15	5	146700	1@23	DFT_QPSK	23.53	PASS
n28(703-736)	15	15	142100	36@18	DFT_BPSK	22.46	PASS
n28(703-736)	15	15	142100	1@1	DFT_BPSK	22.88	PASS
n28(703-736)	15	15	142100	1@77	DFT_BPSK	22.54	PASS
n28(703-736)	15	15	142100	36@18	DFT_QPSK	22.57	PASS
n28(703-736)	15	15	142100	1@1	DFT_QPSK	22.7	PASS
n28(703-736)	15	15	142100	1@77	DFT_QPSK	22.53	PASS
n28(703-736)	15	15	143900	36@18	DFT_BPSK	22.69	PASS
n28(703-736)	15	15	143900	1@1	DFT_BPSK	22.33	PASS
n28(703-736)	15	15	143900	1@77	DFT_BPSK	23.37	PASS
n28(703-736)	15	15	143900	36@18	DFT_QPSK	22.74	PASS
n28(703-736)	15	15	143900	1@1	DFT_QPSK	22.29	PASS
n28(703-736)	15	15	143900	1@77	DFT_QPSK	23.3	PASS
n28(703-736)	15	15	145700	36@18	DFT_BPSK	23.54	PASS
n28(703-736)	15	15	145700	1@1	DFT_BPSK	22.94	PASS
n28(703-736)	15	15	145700	1@77	DFT_BPSK	23.63	PASS
n28(703-736)	15	15	145700	36@18	DFT_QPSK	23.61	PASS
n28(703-736)	15	15	145700	1@1	DFT_QPSK	22.88	PASS
n28(703-736)	15	15	145700	1@77	DFT_QPSK	23.58	PASS
n28(703-736)	15	30	143600	80@40	DFT_BPSK	22.51	PASS
n28(703-736)	15	30	143600	1@1	DFT_BPSK	22.78	PASS
n28(703-736)	15	30	143600	1@158	DFT_BPSK	22.98	PASS
n28(703-736)	15	30	143600	80@40	DFT_QPSK	22.52	PASS
n28(703-736)	15	30	143600	1@1	DFT_QPSK	22.68	PASS
n28(703-736)	15	30	143600	1@158	DFT_QPSK	22.92	PASS
n28(703-736)	15	30	143900	80@40	DFT_BPSK	22.78	PASS
n28(703-736)	15	30	143900	1@1	DFT_BPSK	22.37	PASS
n28(703-736)	15	30	143900	1@158	DFT_BPSK	23.57	PASS
n28(703-736)	15	30	143900	80@40	DFT_QPSK	22.79	PASS
n28(703-736)	15	30	143900	1@1	DFT_QPSK	22.35	PASS
n28(703-736)	15	30	143900	1@158	DFT_QPSK	23.48	PASS
n28(703-736)	15	30	144200	80@40	DFT_BPSK	23.39	PASS



n28(703-736)	15	30	144200	1@1	DFT_BPSK	22.51	PASS
n28(703-736)	15	30	144200	1@158	DFT_BPSK	23.6	PASS
n28(703-736)	15	30	144200	80@40	DFT_QPSK	23.4	PASS
n28(703-736)	15	30	144200	1@1	DFT_QPSK	22.5	PASS
n28(703-736)	15	30	144200	1@158	DFT_QPSK	23.55	PASS



Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Power (dBm)	Verdict
n38	30	10	515000	12@6	DFT_BPSK	22.96	PASS
n38	30	10	515000	1@1	DFT_BPSK	22.94	PASS
n38	30	10	515000	1@22	DFT_BPSK	22.99	PASS
n38	30	10	515000	12@6	DFT_QPSK	22.94	PASS
n38	30	10	515000	1@1	DFT_QPSK	22.69	PASS
n38	30	10	515000	1@22	DFT_QPSK	22.74	PASS
n38	30	10	519000	12@6	DFT_BPSK	23.02	PASS
n38	30	10	519000	1@1	DFT_BPSK	22.94	PASS
n38	30	10	519000	1@22	DFT_BPSK	22.92	PASS
n38	30	10	519000	12@6	DFT_QPSK	22.88	PASS
n38	30	10	519000	1@1	DFT_QPSK	22.76	PASS
n38	30	10	519000	1@22	DFT_QPSK	22.85	PASS
n38	30	10	523000	12@6	DFT_BPSK	22.59	PASS
n38	30	10	523000	1@1	DFT_BPSK	22.67	PASS
n38	30	10	523000	1@22	DFT_BPSK	22.74	PASS
n38	30	10	523000	12@6	DFT_QPSK	22.73	PASS
n38	30	10	523000	1@1	DFT_QPSK	22.56	PASS
n38	30	10	523000	1@22	DFT_QPSK	22.59	PASS
n38	30	20	516000	25@12	DFT_BPSK	22.91	PASS
n38	30	20	516000	1@1	DFT_BPSK	22.81	PASS
n38	30	20	516000	1@49	DFT_BPSK	22.94	PASS
n38	30	20	516000	25@12	DFT_QPSK	22.98	PASS
n38	30	20	516000	1@1	DFT_QPSK	22.7	PASS
n38	30	20	516000	1@49	DFT_QPSK	22.74	PASS
n38	30	20	519000	25@12	DFT_BPSK	23.02	PASS
n38	30	20	519000	1@1	DFT_BPSK	22.83	PASS
n38	30	20	519000	1@49	DFT_BPSK	23.01	PASS
n38	30	20	519000	25@12	DFT_QPSK	22.98	PASS
n38	30	20	519000	1@1	DFT_QPSK	22.58	PASS
n38	30	20	519000	1@49	DFT_QPSK	22.7	PASS
n38	30	20	522000	25@12	DFT_BPSK	22.93	PASS
n38	30	20	522000	1@1	DFT_BPSK	22.88	PASS
n38	30	20	522000	1@49	DFT_BPSK	22.81	PASS
n38	30	20	522000	25@12	DFT_QPSK	22.84	PASS
n38	30	20	522000	1@1	DFT_QPSK	22.55	PASS
n38	30	20	522000	1@49	DFT_QPSK	22.46	PASS
n38	30	40	518000	50@25	DFT_BPSK	22.96	PASS
n38	30	40	518000	1@1	DFT_BPSK	22.87	PASS
n38	30	40	518000	1@104	DFT_BPSK	22.94	PASS
n38	30	40	518000	50@25	DFT_QPSK	22.99	PASS
n38	30	40	518000	1@1	DFT_QPSK	22.61	PASS
n38	30	40	518000	1@104	DFT_QPSK	22.69	PASS
n38	30	40	519000	50@25	DFT_BPSK	23.01	PASS
n38	30	40	519000	1@1	DFT_BPSK	22.85	PASS
n38	30	40	519000	1@104	DFT_BPSK	22.89	PASS
n38	30	40	519000	50@25	DFT_QPSK	23.02	PASS
n38	30	40	519000	1@1	DFT_QPSK	22.61	PASS
n38	30	40	519000	1@104	DFT_QPSK	22.64	PASS
n38	30	40	520000	50@25	DFT_BPSK	22.96	PASS



n38	30	40	520000	1@1	DFT_BPSK	22.78	PASS
n38	30	40	520000	1@104	DFT_BPSK	22.83	PASS
n38	30	40	520000	50@25	DFT_QPSK	22.96	PASS
n38	30	40	520000	1@1	DFT_QPSK	22.54	PASS
n38	30	40	520000	1@104	DFT_QPSK	22.57	PASS



Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Power (dBm)	Verdict
n40	30	10	461000	12@6	DFT_BPSK	22.81	PASS
n40	30	10	461000	1@1	DFT_BPSK	22.89	PASS
n40	30	10	461000	1@22	DFT_BPSK	22.74	PASS
n40	30	10	461000	12@6	DFT_QPSK	22.86	PASS
n40	30	10	461000	1@1	DFT_QPSK	22.74	PASS
n40	30	10	461000	1@22	DFT_QPSK	22.65	PASS
n40	30	10	470000	12@6	DFT_BPSK	22.53	PASS
n40	30	10	470000	1@1	DFT_BPSK	22.43	PASS
n40	30	10	470000	1@22	DFT_BPSK	22.55	PASS
n40	30	10	470000	12@6	DFT_QPSK	22.66	PASS
n40	30	10	470000	1@1	DFT_QPSK	22.33	PASS
n40	30	10	470000	1@22	DFT_QPSK	22.47	PASS
n40	30	10	479000	12@6	DFT_BPSK	22.6	PASS
n40	30	10	479000	1@1	DFT_BPSK	22.63	PASS
n40	30	10	479000	1@22	DFT_BPSK	22.7	PASS
n40	30	10	479000	12@6	DFT_QPSK	22.76	PASS
n40	30	10	479000	1@1	DFT_QPSK	22.49	PASS
n40	30	10	479000	1@22	DFT_QPSK	22.53	PASS
n40	30	30	463000	36@18	DFT_BPSK	22.91	PASS
n40	30	30	463000	1@1	DFT_BPSK	23.18	PASS
n40	30	30	463000	1@76	DFT_BPSK	22.62	PASS
n40	30	30	463000	36@18	DFT_QPSK	22.83	PASS
n40	30	30	463000	1@1	DFT_QPSK	22.78	PASS
n40	30	30	463000	1@76	DFT_QPSK	22.46	PASS
n40	30	30	470000	36@18	DFT_BPSK	22.55	PASS
n40	30	30	470000	1@1	DFT_BPSK	22.54	PASS
n40	30	30	470000	1@76	DFT_BPSK	22.53	PASS
n40	30	30	470000	36@18	DFT_QPSK	22.53	PASS
n40	30	30	470000	1@1	DFT_QPSK	22.39	PASS
n40	30	30	470000	1@76	DFT_QPSK	22.43	PASS
n40	30	30	477000	36@18	DFT_BPSK	22.52	PASS
n40	30	30	477000	1@1	DFT_BPSK	22.47	PASS
n40	30	30	477000	1@76	DFT_BPSK	22.66	PASS
n40	30	30	477000	36@18	DFT_QPSK	22.54	PASS
n40	30	30	477000	1@1	DFT_QPSK	22.41	PASS
n40	30	30	477000	1@76	DFT_QPSK	22.46	PASS
n40	30	80	468000	108@54	DFT_BPSK	22.54	PASS
n40	30	80	468000	1@1	DFT_BPSK	23.2	PASS
n40	30	80	468000	1@215	DFT_BPSK	22.14	PASS
n40	30	80	468000	108@54	DFT_QPSK	22.62	PASS
n40	30	80	468000	1@1	DFT_QPSK	22.84	PASS
n40	30	80	468000	1@215	DFT_QPSK	22.09	PASS
n40	30	80	470000	108@54	DFT_BPSK	22.48	PASS
n40	30	80	470000	1@1	DFT_BPSK	22.89	PASS
n40	30	80	470000	1@215	DFT_BPSK	22.28	PASS
n40	30	80	470000	108@54	DFT_QPSK	22.5	PASS
n40	30	80	470000	1@1	DFT_QPSK	22.75	PASS
n40	30	80	470000	1@215	DFT_QPSK	22.15	PASS
n40	30	80	472000	108@54	DFT_BPSK	22.45	PASS



n40	30	80	472000	1@1	DFT_BPSK	22.88	PASS
n40	30	80	472000	1@215	DFT_BPSK	22.41	PASS
n40	30	80	472000	108@54	DFT_QPSK	22.51	PASS
n40	30	80	472000	1@1	DFT_QPSK	22.7	PASS
n40	30	80	472000	1@215	DFT_QPSK	22.21	PASS



Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Power (dBm)	Verdict
n41(2500-2690)	30	10	501000	12@6	DFT_BPSK	21.98	PASS
n41(2500-2690)	30	10	501000	1@1	DFT_BPSK	21.94	PASS
n41(2500-2690)	30	10	501000	1@22	DFT_BPSK	21.9	PASS
n41(2500-2690)	30	10	501000	12@6	DFT_QPSK	22.02	PASS
n41(2500-2690)	30	10	501000	1@1	DFT_QPSK	21.88	PASS
n41(2500-2690)	30	10	501000	1@22	DFT_QPSK	21.81	PASS
n41(2500-2690)	30	10	519000	12@6	DFT_BPSK	22.47	PASS
n41(2500-2690)	30	10	519000	1@1	DFT_BPSK	22.39	PASS
n41(2500-2690)	30	10	519000	1@22	DFT_BPSK	22.43	PASS
n41(2500-2690)	30	10	519000	12@6	DFT_QPSK	22.55	PASS
n41(2500-2690)	30	10	519000	1@1	DFT_QPSK	22.34	PASS
n41(2500-2690)	30	10	519000	1@22	DFT_QPSK	22.39	PASS
n41(2500-2690)	30	10	537000	12@6	DFT_BPSK	22.43	PASS
n41(2500-2690)	30	10	537000	1@1	DFT_BPSK	22.45	PASS
n41(2500-2690)	30	10	537000	1@22	DFT_BPSK	22.29	PASS
n41(2500-2690)	30	10	537000	12@6	DFT_QPSK	22.36	PASS
n41(2500-2690)	30	10	537000	1@1	DFT_QPSK	22.2	PASS
n41(2500-2690)	30	10	537000	1@22	DFT_QPSK	22.16	PASS
n41(2500-2690)	30	50	505002	64@32	DFT_BPSK	21.94	PASS
n41(2500-2690)	30	50	505002	1@1	DFT_BPSK	21.86	PASS
n41(2500-2690)	30	50	505002	1@131	DFT_BPSK	21.86	PASS
n41(2500-2690)	30	50	505002	64@32	DFT_QPSK	22.01	PASS
n41(2500-2690)	30	50	505002	1@1	DFT_QPSK	21.8	PASS
n41(2500-2690)	30	50	505002	1@131	DFT_QPSK	21.82	PASS
n41(2500-2690)	30	50	519000	64@32	DFT_BPSK	22.53	PASS
n41(2500-2690)	30	50	519000	1@1	DFT_BPSK	22.32	PASS
n41(2500-2690)	30	50	519000	1@131	DFT_BPSK	22.2	PASS
n41(2500-2690)	30	50	519000	64@32	DFT_QPSK	22.55	PASS
n41(2500-2690)	30	50	519000	1@1	DFT_QPSK	22.19	PASS
n41(2500-2690)	30	50	519000	1@131	DFT_QPSK	22.09	PASS
n41(2500-2690)	30	50	532998	64@32	DFT_BPSK	22.56	PASS
n41(2500-2690)	30	50	532998	1@1	DFT_BPSK	22.38	PASS
n41(2500-2690)	30	50	532998	1@131	DFT_BPSK	22.31	PASS
n41(2500-2690)	30	50	532998	64@32	DFT_QPSK	22.65	PASS
n41(2500-2690)	30	50	532998	1@1	DFT_QPSK	22.2	PASS
n41(2500-2690)	30	50	532998	1@131	DFT_QPSK	22.16	PASS
n41(2500-2690)	30	100	510000	135@67	DFT_BPSK	22.18	PASS
n41(2500-2690)	30	100	510000	1@1	DFT_BPSK	21.93	PASS
n41(2500-2690)	30	100	510000	1@271	DFT_BPSK	22.36	PASS
n41(2500-2690)	30	100	510000	135@67	DFT_QPSK	22.22	PASS
n41(2500-2690)	30	100	510000	1@1	DFT_QPSK	21.88	PASS
n41(2500-2690)	30	100	510000	1@271	DFT_QPSK	22.3	PASS
n41(2500-2690)	30	100	519000	135@67	DFT_BPSK	22.36	PASS
n41(2500-2690)	30	100	519000	1@1	DFT_BPSK	21.91	PASS
n41(2500-2690)	30	100	519000	1@271	DFT_BPSK	22.46	PASS
n41(2500-2690)	30	100	519000	135@67	DFT_QPSK	22.45	PASS
n41(2500-2690)	30	100	519000	1@1	DFT_QPSK	21.78	PASS
n41(2500-2690)	30	100	519000	1@271	DFT_QPSK	22.27	PASS
n41(2500-2690)	30	100	528000	135@67	DFT_BPSK	22.45	PASS



n41(2500-2690)	30	100	528000	1@1	DFT_BPSK	22.29	PASS
n41(2500-2690)	30	100	528000	1@271	DFT_BPSK	22.32	PASS
n41(2500-2690)	30	100	528000	135@67	DFT_QPSK	22.45	PASS
n41(2500-2690)	30	100	528000	1@1	DFT_QPSK	22.18	PASS
n41(2500-2690)	30	100	528000	1@271	DFT_QPSK	22.14	PASS



Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Power (dBm)	Verdict
n77(3400-4200)	30	10	627000	12@6	DFT_BPSK	21.52	PASS
n77(3400-4200)	30	10	627000	1@1	DFT_BPSK	21.54	PASS
n77(3400-4200)	30	10	627000	1@22	DFT_BPSK	21.57	PASS
n77(3400-4200)	30	10	627000	12@6	DFT_QPSK	21.6	PASS
n77(3400-4200)	30	10	627000	1@1	DFT_QPSK	21.61	PASS
n77(3400-4200)	30	10	627000	1@22	DFT_QPSK	21.61	PASS
n77(3400-4200)	30	10	653334	12@6	DFT_BPSK	21.74	PASS
n77(3400-4200)	30	10	653334	1@1	DFT_BPSK	21.69	PASS
n77(3400-4200)	30	10	653334	1@22	DFT_BPSK	21.81	PASS
n77(3400-4200)	30	10	653334	12@6	DFT_QPSK	21.79	PASS
n77(3400-4200)	30	10	653334	1@1	DFT_QPSK	21.69	PASS
n77(3400-4200)	30	10	653334	1@22	DFT_QPSK	21.82	PASS
n77(3400-4200)	30	10	679666	12@6	DFT_BPSK	21.8	PASS
n77(3400-4200)	30	10	679666	1@1	DFT_BPSK	21.69	PASS
n77(3400-4200)	30	10	679666	1@22	DFT_BPSK	21.73	PASS
n77(3400-4200)	30	10	679666	12@6	DFT_QPSK	21.75	PASS
n77(3400-4200)	30	10	679666	1@1	DFT_QPSK	21.76	PASS
n77(3400-4200)	30	10	679666	1@22	DFT_QPSK	21.82	PASS
n77(3400-4200)	30	50	628334	64@32	DFT_BPSK	21.73	PASS
n77(3400-4200)	30	50	628334	1@1	DFT_BPSK	21.58	PASS
n77(3400-4200)	30	50	628334	1@131	DFT_BPSK	21.63	PASS
n77(3400-4200)	30	50	628334	64@32	DFT_QPSK	21.7	PASS
n77(3400-4200)	30	50	628334	1@1	DFT_QPSK	21.62	PASS
n77(3400-4200)	30	50	628334	1@131	DFT_QPSK	21.66	PASS
n77(3400-4200)	30	50	653334	64@32	DFT_BPSK	21.94	PASS
n77(3400-4200)	30	50	653334	1@1	DFT_BPSK	21.5	PASS
n77(3400-4200)	30	50	653334	1@131	DFT_BPSK	22.03	PASS
n77(3400-4200)	30	50	653334	64@32	DFT_QPSK	21.92	PASS
n77(3400-4200)	30	50	653334	1@1	DFT_QPSK	21.62	PASS
n77(3400-4200)	30	50	653334	1@131	DFT_QPSK	22.13	PASS
n77(3400-4200)	30	50	678332	64@32	DFT_BPSK	21.79	PASS
n77(3400-4200)	30	50	678332	1@1	DFT_BPSK	21.49	PASS
n77(3400-4200)	30	50	678332	1@131	DFT_BPSK	21.69	PASS
n77(3400-4200)	30	50	678332	64@32	DFT_QPSK	21.76	PASS
n77(3400-4200)	30	50	678332	1@1	DFT_QPSK	21.6	PASS
n77(3400-4200)	30	50	678332	1@131	DFT_QPSK	21.78	PASS
n77(3400-4200)	30	100	630000	135@67	DFT_BPSK	21.82	PASS
n77(3400-4200)	30	100	630000	1@1	DFT_BPSK	21.7	PASS
n77(3400-4200)	30	100	630000	1@271	DFT_BPSK	21.49	PASS
n77(3400-4200)	30	100	630000	135@67	DFT_QPSK	21.85	PASS
n77(3400-4200)	30	100	630000	1@1	DFT_QPSK	21.75	PASS
n77(3400-4200)	30	100	630000	1@271	DFT_QPSK	21.58	PASS
n77(3400-4200)	30	100	653334	135@67	DFT_BPSK	21.88	PASS
n77(3400-4200)	30	100	653334	1@1	DFT_BPSK	21.19	PASS
n77(3400-4200)	30	100	653334	1@271	DFT_BPSK	22.13	PASS
n77(3400-4200)	30	100	653334	135@67	DFT_QPSK	21.88	PASS
n77(3400-4200)	30	100	653334	1@1	DFT_QPSK	21.21	PASS
n77(3400-4200)	30	100	653334	1@271	DFT_QPSK	22.17	PASS
n77(3400-4200)	30	100	676666	135@67	DFT_BPSK	21.76	PASS



n77(3400-4200)	30	100	676666	1@1	DFT_BPSK	21.34	PASS
n77(3400-4200)	30	100	676666	1@271	DFT_BPSK	21.62	PASS
n77(3400-4200)	30	100	676666	135@67	DFT_QPSK	21.73	PASS
n77(3400-4200)	30	100	676666	1@1	DFT_QPSK	21.45	PASS
n77(3400-4200)	30	100	676666	1@271	DFT_QPSK	21.67	PASS



Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Power (dBm)	Verdict
n78(3400-3800)	30	10	627000	12@6	DFT_BPSK	21.55	PASS
n78(3400-3800)	30	10	627000	1@1	DFT_BPSK	21.58	PASS
n78(3400-3800)	30	10	627000	1@22	DFT_BPSK	21.63	PASS
n78(3400-3800)	30	10	627000	12@6	DFT_QPSK	21.65	PASS
n78(3400-3800)	30	10	627000	1@1	DFT_QPSK	21.67	PASS
n78(3400-3800)	30	10	627000	1@22	DFT_QPSK	21.67	PASS
n78(3400-3800)	30	10	640000	12@6	DFT_BPSK	21.52	PASS
n78(3400-3800)	30	10	640000	1@1	DFT_BPSK	21.53	PASS
n78(3400-3800)	30	10	640000	1@22	DFT_BPSK	21.53	PASS
n78(3400-3800)	30	10	640000	12@6	DFT_QPSK	21.54	PASS
n78(3400-3800)	30	10	640000	1@1	DFT_QPSK	21.55	PASS
n78(3400-3800)	30	10	640000	1@22	DFT_QPSK	21.59	PASS
n78(3400-3800)	30	10	653000	12@6	DFT_BPSK	21.8	PASS
n78(3400-3800)	30	10	653000	1@1	DFT_BPSK	21.71	PASS
n78(3400-3800)	30	10	653000	1@22	DFT_BPSK	21.86	PASS
n78(3400-3800)	30	10	653000	12@6	DFT_QPSK	21.81	PASS
n78(3400-3800)	30	10	653000	1@1	DFT_QPSK	21.77	PASS
n78(3400-3800)	30	10	653000	1@22	DFT_QPSK	21.92	PASS
n78(3400-3800)	30	50	628334	64@32	DFT_BPSK	21.73	PASS
n78(3400-3800)	30	50	628334	1@1	DFT_BPSK	21.54	PASS
n78(3400-3800)	30	50	628334	1@131	DFT_BPSK	21.63	PASS
n78(3400-3800)	30	50	628334	64@32	DFT_QPSK	21.7	PASS
n78(3400-3800)	30	50	628334	1@1	DFT_QPSK	21.58	PASS
n78(3400-3800)	30	50	628334	1@131	DFT_QPSK	21.67	PASS
n78(3400-3800)	30	50	640000	64@32	DFT_BPSK	21.62	PASS
n78(3400-3800)	30	50	640000	1@1	DFT_BPSK	21.51	PASS
n78(3400-3800)	30	50	640000	1@131	DFT_BPSK	21.49	PASS
n78(3400-3800)	30	50	640000	64@32	DFT_QPSK	21.6	PASS
n78(3400-3800)	30	50	640000	1@1	DFT_QPSK	21.6	PASS
n78(3400-3800)	30	50	640000	1@131	DFT_QPSK	21.57	PASS
n78(3400-3800)	30	50	651666	64@32	DFT_BPSK	21.95	PASS
n78(3400-3800)	30	50	651666	1@1	DFT_BPSK	21.55	PASS
n78(3400-3800)	30	50	651666	1@131	DFT_BPSK	22.09	PASS
n78(3400-3800)	30	50	651666	64@32	DFT_QPSK	21.92	PASS
n78(3400-3800)	30	50	651666	1@1	DFT_QPSK	21.6	PASS
n78(3400-3800)	30	50	651666	1@131	DFT_QPSK	22.15	PASS
n78(3400-3800)	30	100	630000	135@67	DFT_BPSK	21.88	PASS
n78(3400-3800)	30	100	630000	1@1	DFT_BPSK	21.74	PASS
n78(3400-3800)	30	100	630000	1@271	DFT_BPSK	21.53	PASS
n78(3400-3800)	30	100	630000	135@67	DFT_QPSK	21.89	PASS
n78(3400-3800)	30	100	630000	1@1	DFT_QPSK	21.76	PASS
n78(3400-3800)	30	100	630000	1@271	DFT_QPSK	21.59	PASS
n78(3400-3800)	30	100	640000	135@67	DFT_BPSK	21.67	PASS
n78(3400-3800)	30	100	640000	1@1	DFT_BPSK	21.49	PASS
n78(3400-3800)	30	100	640000	1@271	DFT_BPSK	21.39	PASS
n78(3400-3800)	30	100	640000	135@67	DFT_QPSK	21.65	PASS
n78(3400-3800)	30	100	640000	1@1	DFT_QPSK	21.54	PASS
n78(3400-3800)	30	100	640000	1@271	DFT_QPSK	21.47	PASS
n78(3400-3800)	30	100	650000	135@67	DFT_BPSK	21.96	PASS



n78(3400-3800)	30	100	650000	1@1	DFT_BPSK	21.31	PASS
n78(3400-3800)	30	100	650000	1@271	DFT_BPSK	22.27	PASS
n78(3400-3800)	30	100	650000	135@67	DFT_QPSK	21.93	PASS
n78(3400-3800)	30	100	650000	1@1	DFT_QPSK	21.34	PASS
n78(3400-3800)	30	100	650000	1@271	DFT_QPSK	22.29	PASS



NSA output list

Condition	Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	Test ID	RB Allocation	Modulation	Power (dBm)	Verdict
NVNT	Band1	-	5	18025	1~6	1@LOW	QPSK	20.74	-
NVNT	n78(3400-3800)	30	10	627000	1~6	1@1	DFT_BPSK	18.84	-
NVNT	Sum	-	-	-	1~6	-	-	22.9	PASS
NVNT	Band1	-	5	18025	1~6	8@LOW	QPSK	20.77	-
NVNT	n78(3400-3800)	30	10	627000	1~6	12@6	DFT_BPSK	18.93	-
NVNT	Sum	-	-	-	1~6	-	-	22.96	PASS
NVNT	Band1	-	5	18025	1~6	1@LOW	QPSK	20.75	-
NVNT	n78(3400-3800)	30	10	627000	1~6	1@1	DFT_QPSK	18.92	-
NVNT	Sum	-	-	-	1~6	-	-	22.94	PASS
NVNT	Band1	-	5	18025	1~6	8@LOW	QPSK	20.75	-
NVNT	n78(3400-3800)	30	10	627000	1~6	12@6	DFT_QPSK	18.88	-
NVNT	Sum	-	-	-	1~6	-	-	22.93	PASS
NVNT	Band1	-	5	18300	1~6	8@LOW	QPSK	20.1	-
NVNT	n78(3400-3800)	30	10	640000	1~6	12@6	DFT_BPSK	18.91	-
NVNT	Sum	-	-	-	1~6	-	-	22.56	PASS
NVNT	Band1	-	5	18300	1~6	8@LOW	QPSK	20.13	-
NVNT	n78(3400-3800)	30	10	640000	1~6	12@6	DFT_QPSK	18.86	-
NVNT	Sum	-	-	-	1~6	-	-	22.55	PASS
NVNT	Band1	-	5	18575	1~6	1@HIGH	QPSK	20.52	-
NVNT	n78(3400-3800)	30	10	653000	1~6	1@22	DFT_BPSK	19.12	-
NVNT	Sum	-	-	-	1~6	-	-	22.89	PASS
NVNT	Band1	-	5	18575	1~6	8@HIGH	QPSK	20.48	-
NVNT	n78(3400-3800)	30	10	653000	1~6	12@6	DFT_BPSK	19	-
NVNT	Sum	-	-	-	1~6	-	-	22.81	PASS
NVNT	Band1	-	5	18575	1~6	1@HIGH	QPSK	20.49	-
NVNT	n78(3400-3800)	30	10	653000	1~6	1@22	DFT_QPSK	19.22	-
NVNT	Sum	-	-	-	1~6	-	-	22.91	PASS
NVNT	Band1	-	5	18575	1~6	8@HIGH	QPSK	20.5	-
NVNT	n78(3400-3800)	30	10	653000	1~6	12@6	DFT_QPSK	19.15	-
NVNT	Sum	-	-	-	1~6	-	-	22.89	PASS
NVNT	Band1	-	20	18100	1~6	1@LOW	QPSK	20.84	-
NVNT	n78(3400-3800)	30	100	630000	1~6	1@1	DFT_BPSK	19.09	-
NVNT	Sum	-	-	-	1~6	-	-	23.06	PASS
NVNT	Band1	-	20	18100	1~6	18@LOW	QPSK	20.82	-
NVNT	n78(3400-3800)	30	100	630000	1~6	135@67	DFT_BPSK	19.15	-
NVNT	Sum	-	-	-	1~6	-	-	23.08	PASS
NVNT	Band1	-	20	18100	1~6	1@LOW	QPSK	20.83	-
NVNT	n78(3400-3800)	30	100	630000	1~6	1@1	DFT_QPSK	19.22	-
NVNT	Sum	-	-	-	1~6	-	-	23.11	PASS
NVNT	Band1	-	20	18100	1~6	18@LOW	QPSK	20.85	-
NVNT	n78(3400-3800)	30	100	630000	1~6	135@67	DFT_QPSK	19.17	-
NVNT	Sum	-	-	-	1~6	-	-	23.1	PASS



NVNT	Band1	-	20	18300	1~6	18@LOW	QPSK	20.54	-
NVNT	n78(3400-3800)	30	100	640000	1~6	135@67	DFT_BPSK	19.01	-
NVNT	Sum	-	-	-	1~6	-	-	22.85	PASS
NVNT	Band1	-	20	18300	1~6	18@LOW	QPSK	20.6	-
NVNT	n78(3400-3800)	30	100	640000	1~6	135@67	DFT_QPSK	18.99	-
NVNT	Sum	-	-	-	1~6	-	-	22.88	PASS
NVNT	Band1	-	20	18500	1~6	1@HIGH	QPSK	20.57	-
NVNT	n78(3400-3800)	30	100	650000	1~6	1@271	DFT_BPSK	19.43	-
NVNT	Sum	-	-	-	1~6	-	-	23.05	PASS
NVNT	Band1	-	20	18500	1~6	18@HIGH	QPSK	20.48	-
NVNT	n78(3400-3800)	30	100	650000	1~6	135@67	DFT_BPSK	19.28	-
NVNT	Sum	-	-	-	1~6	-	-	22.93	PASS
NVNT	Band1	-	20	18500	1~6	1@HIGH	QPSK	20.58	-
NVNT	n78(3400-3800)	30	100	650000	1~6	1@271	DFT_QPSK	19.55	-
NVNT	Sum	-	-	-	1~6	-	-	23.11	PASS
NVNT	Band1	-	20	18500	1~6	18@HIGH	QPSK	20.48	-
NVNT	n78(3400-3800)	30	100	650000	1~6	135@67	DFT_QPSK	19.28	-
NVNT	Sum	-	-	-	1~6	-	-	22.93	PASS
NVNT	Band1	-	5	18025	7~9	1@LOW	QPSK	23.83	PASS
NVNT	n78(3400-3800)	30	10	627000	7~9	NA	NA	-	-
NVNT	Band1	-	5	18025	7~9	8@LOW	QPSK	23.78	PASS
NVNT	n78(3400-3800)	30	10	627000	7~9	NA	NA	-	-
NVNT	Band1	-	5	18300	7~9	8@LOW	QPSK	22.73	PASS
NVNT	n78(3400-3800)	30	10	640000	7~9	NA	NA	-	-
NVNT	Band1	-	5	18575	7~9	1@HIGH	QPSK	23.61	PASS
NVNT	n78(3400-3800)	30	10	653000	7~9	NA	NA	-	-
NVNT	Band1	-	5	18575	7~9	8@LOW	QPSK	23.53	PASS
NVNT	n78(3400-3800)	30	10	653000	7~9	NA	NA	-	-
NVNT	Band1	-	20	18100	7~9	1@LOW	QPSK	20.81	PASS
NVNT	n78(3400-3800)	30	10	627000	7~9	NA	NA	-	-
NVNT	Band1	-	20	18100	7~9	18@LOW	QPSK	20.81	PASS
NVNT	n78(3400-3800)	30	10	627000	7~9	NA	NA	-	-
NVNT	Band1	-	20	18300	7~9	18@LOW	QPSK	23.19	PASS
NVNT	n78(3400-3800)	30	10	640000	7~9	NA	NA	-	-
NVNT	Band1	-	20	18500	7~9	1@HIGH	QPSK	23.32	PASS
NVNT	n78(3400-3800)	30	10	653000	7~9	NA	NA	-	-
NVNT	Band1	-	20	18500	7~9	18@LOW	QPSK	23.53	PASS
NVNT	n78(3400-3800)	30	10	653000	7~9	NA	NA	-	-
NVNT	Band1	-	5	18025	10~15	NA	NA	-	-
NVNT	n78(3400-3800)	30	10	627000	10~15	1@1	DFT_BPSK	21.85	PASS
NVNT	Band1	-	5	18025	10~15	NA	NA	-	-
NVNT	n78(3400-3800)	30	10	627000	10~15	12@6	DFT_BPSK	21.89	PASS
NVNT	Band1	-	5	18025	10~15	NA	NA	-	-
NVNT	n78(3400-3800)	30	10	627000	10~15	1@1	DFT_QPSK	21.95	PASS



NVNT	Band1	-	5	18025	10~15	NA	NA	-	-
NVNT	n78(3400-3800)	30	10	627000	10~15	12@6	DFT_QPSK	21.92	PASS
NVNT	Band1	-	5	18300	10~15	NA	NA	-	-
NVNT	n78(3400-3800)	30	10	640000	10~15	12@6	DFT_BPSK	21.85	PASS
NVNT	Band1	-	5	18300	10~15	NA	NA	-	-
NVNT	n78(3400-3800)	30	10	640000	10~15	12@6	DFT_QPSK	21.82	PASS
NVNT	Band1	-	5	18575	10~15	NA	NA	-	-
NVNT	n78(3400-3800)	30	10	653000	10~15	1@22	DFT_BPSK	22.12	PASS
NVNT	Band1	-	5	18575	10~15	NA	NA	-	-
NVNT	n78(3400-3800)	30	10	653000	10~15	12@6	DFT_BPSK	22.04	PASS
NVNT	Band1	-	5	18575	10~15	NA	NA	-	-
NVNT	n78(3400-3800)	30	10	653000	10~15	1@22	DFT_QPSK	22.2	PASS
NVNT	Band1	-	5	18575	10~15	NA	NA	-	-
NVNT	n78(3400-3800)	30	10	653000	10~15	12@6	DFT_QPSK	22.08	PASS
NVNT	Band1	-	5	18025	10~15	NA	NA	-	-
NVNT	n78(3400-3800)	30	100	630000	10~15	1@1	DFT_BPSK	22.1	PASS
NVNT	Band1	-	5	18025	10~15	NA	NA	-	-
NVNT	n78(3400-3800)	30	100	630000	10~15	135@67	DFT_BPSK	22.18	PASS
NVNT	Band1	-	5	18025	10~15	NA	NA	-	-
NVNT	n78(3400-3800)	30	100	630000	10~15	1@1	DFT_QPSK	22.22	PASS
NVNT	Band1	-	5	18025	10~15	NA	NA	-	-
NVNT	n78(3400-3800)	30	100	630000	10~15	135@67	DFT_QPSK	22.15	PASS
NVNT	Band1	-	5	18300	10~15	NA	NA	-	-
NVNT	n78(3400-3800)	30	100	640000	10~15	135@67	DFT_BPSK	21.97	PASS
NVNT	Band1	-	5	18300	10~15	NA	NA	-	-
NVNT	n78(3400-3800)	30	100	640000	10~15	135@67	DFT_QPSK	21.98	PASS
NVNT	Band1	-	5	18575	10~15	NA	NA	-	-
NVNT	n78(3400-3800)	30	100	650000	10~15	1@271	DFT_BPSK	22.43	PASS
NVNT	Band1	-	5	18575	10~15	NA	NA	-	-
NVNT	n78(3400-3800)	30	100	650000	10~15	135@67	DFT_BPSK	22.25	PASS
NVNT	Band1	-	5	18575	10~15	NA	NA	-	-
NVNT	n78(3400-3800)	30	100	650000	10~15	1@271	DFT_QPSK	22.5	PASS
NVNT	Band1	-	5	18575	10~15	NA	NA	-	-
NVNT	n78(3400-3800)	30	100	650000	10~15	135@67	DFT_QPSK	22.22	PASS



Condition	Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	Test ID	RB Allocation	Modulation	Power (dBm)	Verdict
NVNT	Band3	-	5	19225	1~6	1@LOW	QPSK	20.64	-
NVNT	n78(3400-3800)	30	10	627000	1~6	1@1	DFT_BPSK	18.85	-
NVNT	Sum	-	-	-	1~6	-	-	22.85	PASS
NVNT	Band3	-	5	19225	1~6	8@LOW	QPSK	20.59	-
NVNT	n78(3400-3800)	30	10	627000	1~6	12@6	DFT_BPSK	18.96	-
NVNT	Sum	-	-	-	1~6	-	-	22.86	PASS
NVNT	Band3	-	5	19225	1~6	1@LOW	QPSK	20.58	-
NVNT	n78(3400-3800)	30	10	627000	1~6	1@1	DFT_QPSK	18.92	-
NVNT	Sum	-	-	-	1~6	-	-	22.84	PASS
NVNT	Band3	-	5	19225	1~6	8@LOW	QPSK	20.62	-
NVNT	n78(3400-3800)	30	10	627000	1~6	12@6	DFT_QPSK	18.92	-
NVNT	Sum	-	-	-	1~6	-	-	22.86	PASS
NVNT	Band3	-	5	19575	1~6	8@LOW	QPSK	20.6	-
NVNT	n78(3400-3800)	30	10	640000	1~6	12@6	DFT_BPSK	18.81	-
NVNT	Sum	-	-	-	1~6	-	-	22.81	PASS
NVNT	Band3	-	5	19575	1~6	8@LOW	QPSK	20.61	-
NVNT	n78(3400-3800)	30	10	640000	1~6	12@6	DFT_QPSK	18.86	-
NVNT	Sum	-	-	-	1~6	-	-	22.83	PASS
NVNT	Band3	-	5	19925	1~6	1@HIGH	QPSK	20.66	-
NVNT	n78(3400-3800)	30	10	653000	1~6	1@22	DFT_BPSK	19.12	-
NVNT	Sum	-	-	-	1~6	-	-	22.97	PASS
NVNT	Band3	-	5	19925	1~6	8@HIGH	QPSK	20.68	-
NVNT	n78(3400-3800)	30	10	653000	1~6	12@6	DFT_BPSK	19.04	-
NVNT	Sum	-	-	-	1~6	-	-	22.95	PASS
NVNT	Band3	-	5	19925	1~6	1@HIGH	QPSK	20.66	-
NVNT	n78(3400-3800)	30	10	653000	1~6	1@22	DFT_QPSK	19.26	-
NVNT	Sum	-	-	-	1~6	-	-	23.03	PASS
NVNT	Band3	-	5	19925	1~6	8@HIGH	QPSK	20.68	-
NVNT	n78(3400-3800)	30	10	653000	1~6	12@6	DFT_QPSK	19.19	-
NVNT	Sum	-	-	-	1~6	-	-	23.01	PASS
NVNT	Band3	-	20	19300	1~6	1@LOW	QPSK	20.56	-
NVNT	n78(3400-3800)	30	100	630000	1~6	1@1	DFT_BPSK	19.15	-
NVNT	Sum	-	-	-	1~6	-	-	22.92	PASS
NVNT	Band3	-	20	19300	1~6	18@LOW	QPSK	20.56	-
NVNT	n78(3400-3800)	30	100	630000	1~6	135@67	DFT_BPSK	19.17	-
NVNT	Sum	-	-	-	1~6	-	-	22.93	PASS
NVNT	Band3	-	20	19300	1~6	1@LOW	QPSK	20.61	-
NVNT	n78(3400-3800)	30	100	630000	1~6	1@1	DFT_QPSK	19.19	-
NVNT	Sum	-	-	-	1~6	-	-	22.97	PASS
NVNT	Band3	-	20	19300	1~6	18@LOW	QPSK	20.58	-
NVNT	n78(3400-3800)	30	100	630000	1~6	135@67	DFT_QPSK	19.16	-
NVNT	Sum	-	-	-	1~6	-	-	22.94	PASS
NVNT	Band3	-	20	19575	1~6	18@LOW	QPSK	20.58	-



NVNT	n78(3400-3800)	30	100	640000	1~6	135@67	DFT_BPSK	19.01	-
NVNT	Sum	-	-	-	1~6	-	-	22.88	PASS
NVNT	Band3	-	20	19575	1~6	18@LOW	QPSK	20.56	-
NVNT	n78(3400-3800)	30	100	640000	1~6	135@67	DFT_QPSK	19	-
NVNT	Sum	-	-	-	1~6	-	-	22.86	PASS
NVNT	Band3	-	20	19850	1~6	1@HIGH	QPSK	20.72	-
NVNT	n78(3400-3800)	30	100	650000	1~6	1@271	DFT_BPSK	19.44	-
NVNT	Sum	-	-	-	1~6	-	-	23.14	PASS
NVNT	Band3	-	20	19850	1~6	18@HIGH	QPSK	20.73	-
NVNT	n78(3400-3800)	30	100	650000	1~6	135@67	DFT_BPSK	19.28	-
NVNT	Sum	-	-	-	1~6	-	-	23.08	PASS
NVNT	Band3	-	20	19850	1~6	1@HIGH	QPSK	20.71	-
NVNT	n78(3400-3800)	30	100	650000	1~6	1@271	DFT_QPSK	19.55	-
NVNT	Sum	-	-	-	1~6	-	-	23.18	PASS
NVNT	Band3	-	20	19850	1~6	18@HIGH	QPSK	20.72	-
NVNT	n78(3400-3800)	30	100	650000	1~6	135@67	DFT_QPSK	19.26	-
NVNT	Sum	-	-	-	1~6	-	-	23.06	PASS
NVNT	Band3	-	5	19225	7~9	1@LOW	QPSK	23.61	PASS
NVNT	n78(3400-3800)	30	10	627000	7~9	NA	NA	-	-
NVNT	Band3	-	5	19225	7~9	8@LOW	QPSK	23.63	PASS
NVNT	n78(3400-3800)	30	10	627000	7~9	NA	NA	-	-
NVNT	Band3	-	5	19575	7~9	8@LOW	QPSK	23.63	PASS
NVNT	n78(3400-3800)	30	10	640000	7~9	NA	NA	-	-
NVNT	Band3	-	5	19925	7~9	1@HIGH	QPSK	23.88	PASS
NVNT	n78(3400-3800)	30	10	653000	7~9	NA	NA	-	-
NVNT	Band3	-	5	19925	7~9	8@LOW	QPSK	23.75	PASS
NVNT	n78(3400-3800)	30	10	653000	7~9	NA	NA	-	-
NVNT	Band3	-	20	19300	7~9	1@LOW	QPSK	20.64	PASS
NVNT	n78(3400-3800)	30	10	627000	7~9	NA	NA	-	-
NVNT	Band3	-	20	19300	7~9	18@LOW	QPSK	20.58	PASS
NVNT	n78(3400-3800)	30	10	627000	7~9	NA	NA	-	-
NVNT	Band3	-	20	19575	7~9	18@LOW	QPSK	23.59	PASS
NVNT	n78(3400-3800)	30	10	640000	7~9	NA	NA	-	-
NVNT	Band3	-	20	19850	7~9	1@HIGH	QPSK	23.75	PASS
NVNT	n78(3400-3800)	30	10	653000	7~9	NA	NA	-	-
NVNT	Band3	-	20	19850	7~9	18@LOW	QPSK	23.7	PASS
NVNT	n78(3400-3800)	30	10	653000	7~9	NA	NA	-	-
NVNT	Band3	-	5	19225	10~15	NA	NA	-	-
NVNT	n78(3400-3800)	30	10	627000	10~15	1@1	DFT_BPSK	21.88	PASS
NVNT	Band3	-	5	19225	10~15	NA	NA	-	-
NVNT	n78(3400-3800)	30	10	627000	10~15	12@6	DFT_BPSK	21.86	PASS
NVNT	Band3	-	5	19225	10~15	NA	NA	-	-
NVNT	n78(3400-3800)	30	10	627000	10~15	1@1	DFT_QPSK	21.94	PASS
NVNT	Band3	-	5	19225	10~15	NA	NA	-	-



NVNT	n78(3400-3800)	30	10	627000	10~15	12@6	DFT_QPSK	21.9	PASS
NVNT	Band3	-	5	19575	10~15	NA	NA	-	-
NVNT	n78(3400-3800)	30	10	640000	10~15	12@6	DFT_BPSK	21.8	PASS
NVNT	Band3	-	5	19575	10~15	NA	NA	-	-
NVNT	n78(3400-3800)	30	10	640000	10~15	12@6	DFT_QPSK	21.86	PASS
NVNT	Band3	-	5	19925	10~15	NA	NA	-	-
NVNT	n78(3400-3800)	30	10	653000	10~15	1@22	DFT_BPSK	22.16	PASS
NVNT	Band3	-	5	19925	10~15	NA	NA	-	-
NVNT	n78(3400-3800)	30	10	653000	10~15	12@6	DFT_BPSK	22.01	PASS
NVNT	Band3	-	5	19925	10~15	NA	NA	-	-
NVNT	n78(3400-3800)	30	10	653000	10~15	1@22	DFT_QPSK	22.18	PASS
NVNT	Band3	-	5	19925	10~15	NA	NA	-	-
NVNT	n78(3400-3800)	30	10	653000	10~15	12@6	DFT_QPSK	22.13	PASS
NVNT	Band3	-	5	19225	10~15	NA	NA	-	-
NVNT	n78(3400-3800)	30	100	630000	10~15	1@1	DFT_BPSK	22.14	PASS
NVNT	Band3	-	5	19225	10~15	NA	NA	-	-
NVNT	n78(3400-3800)	30	100	630000	10~15	135@67	DFT_BPSK	22.17	PASS
NVNT	Band3	-	5	19225	10~15	NA	NA	-	-
NVNT	n78(3400-3800)	30	100	630000	10~15	1@1	DFT_QPSK	22.2	PASS
NVNT	Band3	-	5	19225	10~15	NA	NA	-	-
NVNT	n78(3400-3800)	30	100	630000	10~15	135@67	DFT_QPSK	22.2	PASS
NVNT	Band3	-	5	19575	10~15	NA	NA	-	-
NVNT	n78(3400-3800)	30	100	640000	10~15	135@67	DFT_BPSK	21.98	PASS
NVNT	Band3	-	5	19575	10~15	NA	NA	-	-
NVNT	n78(3400-3800)	30	100	640000	10~15	135@67	DFT_QPSK	21.98	PASS
NVNT	Band3	-	5	19925	10~15	NA	NA	-	-
NVNT	n78(3400-3800)	30	100	650000	10~15	1@271	DFT_BPSK	22.42	PASS
NVNT	Band3	-	5	19925	10~15	NA	NA	-	-
NVNT	n78(3400-3800)	30	100	650000	10~15	135@67	DFT_BPSK	22.26	PASS
NVNT	Band3	-	5	19925	10~15	NA	NA	-	-
NVNT	n78(3400-3800)	30	100	650000	10~15	1@271	DFT_QPSK	22.49	PASS
NVNT	Band3	-	5	19925	10~15	NA	NA	-	-
NVNT	n78(3400-3800)	30	100	650000	10~15	135@67	DFT_QPSK	22.22	PASS



9.2 Tune up power

Mode	GSM900	GSM1800
GSM/PCS	33±1dBm	30.5±1dBm
GPRS (1 Slot)	27±1dBm	23.5±1dBm
GPRS (2 Slot)	27.5±1dBm	24±1dBm
GPRS (3 Slot)	27.5±1dBm	24±1dBm
GPRS (4 Slot)	27.5±1dBm	24±1dBm

Mode	WCDMA Band I	WCDMA Band VIII
RMC	23.5±1dBm	23.5±1dBm
HSDPA Subtest-1	22.5±1dBm	22.5±1dBm
HSDPA Subtest-2	22±1dBm	22±1dBm
HSDPA Subtest-3	21±1dBm	21±1dBm
HSDPA Subtest-4	21±1dBm	21±1dBm
HSUPA Subtest-1	22±1dBm	22±1dBm
HSUPA Subtest-2	22±1dBm	22±1dBm
HSUPA Subtest-3	21±1dBm	21±1dBm
HSUPA Subtest-4	22.5±1dBm	22.5±1dBm
HSUPA Subtest-5	22±1dBm	21.5±1dBm

BW[MHz]	Mode	Band 1	Band 3	Band 7	Band 8	Band 20
1.4	QPSK	N/A	23±1dBm	N/A	23.5±1dBm	N/A
3	QPSK	N/A	N/A	N/A	N/A	N/A
5	QPSK	23±1dBm	23±1dBm	20±1dBm	23.5±1dBm	23.5±1dBm
10	QPSK	N/A	N/A	N/A	23.5±1dBm	N/A
20	QPSK	23±1dBm	23±1dBm	20.5±1dBm	N/A	23.5±1dBm

BW[MHz]	Mode	Band 28	Band 34	Band 38	Band 40	Band 42
1.4	QPSK	N/A	N/A	N/A	N/A	N/A
3	QPSK	23.5±1dBm	N/A	N/A	N/A	N/A
5	QPSK	23.5±1dBm	23±1dBm	20.5±1dBm	23.5±1dBm	21±1dBm
10	QPSK	N/A	N/A	N/A	N/A	N/A
20	QPSK	23.5±1dBm	23.5±1dBm	20.5±1dBm	23.5±1dBm	21.5±1dBm



BW[MHz]	Mode	N1	N3	N7	N8	N20	N28
5	DFT_BPSK	22±1dBm	22.5±1dBm	22±1dBm	22.7±1dBm	22±1dBm	22.8±1dBm
5	DFT_QPSK	22±1dBm	22.5±1dBm	22±1dBm	22.7±1dBm	22±1dBm	22.8±1dBm
15	DFT_BPSK	N/A	N/A	22±1dBm	22.7±1dBm	22±1dBm	22.8±1dBm
15	DFT_QPSK	N/A	N/A	22±1dBm	22.7±1dBm	22±1dBm	22.8±1dBm
20	DFT_BPSK	N/A	22.5±1dBm	22.3±1dBm	23±1dBm	22.3±1dBm	23±1dBm
20	DFT_QPSK	N/A	22.5±1dBm	22±1dBm	22.7±1dBm	22±1dBm	22.8±1dBm
25	DFT_BPSK	22±1dBm	N/A	N/A	N/A	N/A	N/A
25	DFT_QPSK	22±1dBm	N/A	N/A	N/A	N/A	N/A
30	DFT_BPSK	N/A	22.7±1dBm	N/A	N/A	N/A	N/A
30	DFT_QPSK	N/A	22.5±1dBm	N/A	N/A	N/A	N/A
50	DFT_BPSK	22.5±1dBm	N/A	N/A	N/A	N/A	N/A
50	DFT_QPSK	22±1dBm	N/A	N/A	N/A	N/A	N/A

BW[MHz]	Mode	N38	N40	N41	N77	N78
10	DFT_BPSK	22.5±1dBm	22.5±1dBm	21.7±1dBm	21.5±1dBm	21.5±1dBm
10	DFT_QPSK	22.5±1dBm	22.5±1dBm	21.7±1dBm	21.5±1dBm	21.5±1dBm
15	DFT_BPSK	22.5±1dBm	N/A	N/A	N/A	N/A
15	DFT_QPSK	22.5±1dBm	N/A	N/A	N/A	N/A
30	DFT_BPSK	N/A	22.5±1dBm	N/A	N/A	N/A
30	DFT_QPSK	N/A	22.5±1dBm	N/A	N/A	N/A
40	DFT_BPSK	22.5±1dBm	N/A	N/A	N/A	N/A
40	DFT_QPSK	22.5±1dBm	N/A	N/A	N/A	N/A
50	DFT_BPSK	N/A	N/A	21.7±1dBm	21.5±1dBm	21.5±1dBm
50	DFT_QPSK	N/A	N/A	21.7±1dBm	21.5±1dBm	21.5±1dBm
80	DFT_BPSK	N/A	22.5±1dBm	N/A	N/A	N/A
80	DFT_QPSK	N/A	22.5±1dBm	N/A	N/A	N/A
100	DFT_BPSK	N/A	N/A	22±1dBm	21.5±1dBm	21.5±1dBm
100	DFT_QPSK	N/A	N/A	21.7±1dBm	21.5±1dBm	21.5±1dBm

BW[MHz]	Mode	NSA N78+B1	NSA N78+B3
10	DFT_BPSK	22.5±1dBm	22.5±1dBm
10	DFT_QPSK	22.5±1dBm	22.5±1dBm
100	DFT_BPSK	22.5±1dBm	22.5±1dBm
100	DFT_QPSK	22.5±1dBm	22.5±1dBm

Mode	BT
GFSK	7±1dBm
$\pi/4$ -DQPSK	4.5±1dBm
8DPSK	4.5±1dBm

Mode	BLE
GFSK(1Mbps)	7±1dBm
GFSK(2Mbps)	7±1dBm



Mode	NFC
GFSK	-39±1dBm

2.4G WLAN			
Mode	ANT 1	ANT 2	MIMO
802.11b	14.5±1dBm	13.5±1dBm	N/A
802.11g	13.5±1dBm	13±1dBm	N/A
802.11n(HT20)	12±1dBm	11±1dBm	12.5±1dBm
802.11n(HT40)	12±1dBm	11±1dBm	12.5±1dBm
802.11ax (HE20)	12±1dBm	11±1dBm	12.5±1dBm
802.11ax (HE40)	12±1dBm	11±1dBm	12.5±1dBm

5.2G WLAN			
Mode	ANT 1	ANT 2	MIMO
802.11a	12±1dBm	15±1dBm	N/A
802.11n-HT20	11.5±1dBm	13.5±1dBm	13±1dBm
802.11n-HT40	11±1dBm	14±1dBm	13±1dBm
802.11ac80	10.5±1dBm	12±1dBm	12.5±1dBm
802.11ax80	10.5±1dBm	12.5±1dBm	13±1dBm

5.3G WLAN			
Mode	ANT 1	ANT 2	MIMO
802.11a	12.5±1dBm	14.5±1dBm	N/A
802.11n-HT20	11.5±1dBm	13.5±1dBm	12.5±1dBm
802.11n-HT40	12±1dBm	14±1dBm	13±1dBm
802.11ac80	10.5±1dBm	12.5±1dBm	12.5±1dBm
802.11ax80	11±1dBm	13±1dBm	13±1dBm

5.6G WLAN			
Mode	ANT 1	ANT 2	MIMO
802.11a	14.5±1dBm	14.5±1dBm	N/A
802.11n-HT20	14±1dBm	13.5±1dBm	13.5±1dBm
802.11n-HT40	14±1dBm	13.5±1dBm	13.5±1dBm
802.11ac80	12.5±1dBm	12±1dBm	13±1dBm
802.11ax80	12.5±1dBm	12.5±1dBm	13.5±1dBm

5.8G WLAN			
Mode	ANT 1	ANT 2	MIMO
802.11a	12±1dBm	12.5±1dBm	N/A
802.11n-HT20	11±1dBm	11.5±1dBm	10±1dBm
802.11n-HT40	11.5±1dBm	11.5±1dBm	10±1dBm
802.11ac80	11±1dBm	11±1dBm	10±1dBm
802.11ax80	11±1dBm	11±1dBm	10±1dBm

10. Test Photos and Results

10.1 EUT Photos

Front side



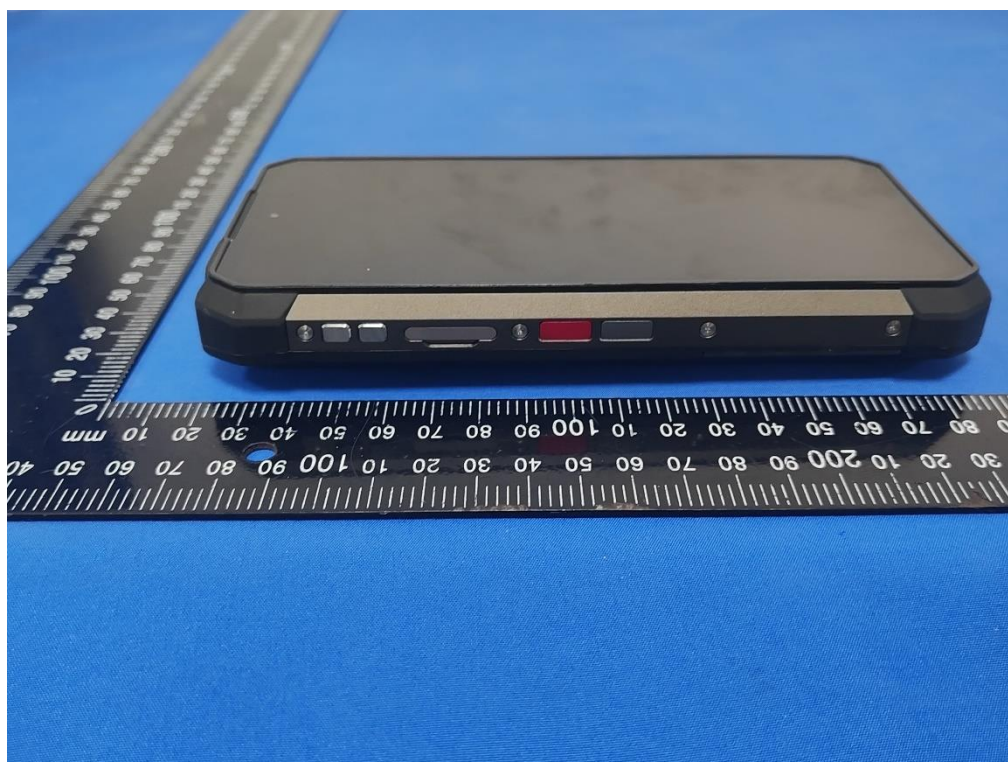
Back side



Right Edge



Left Edge



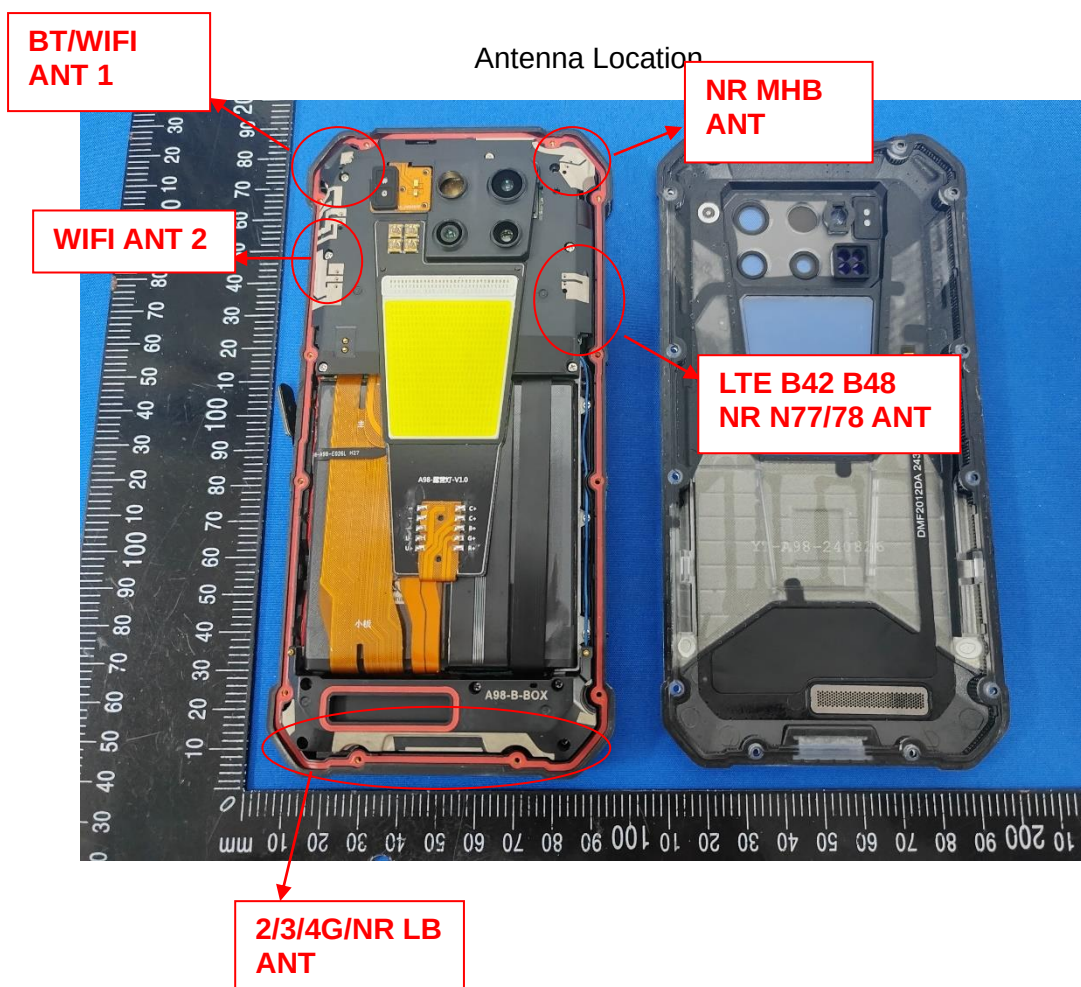


Top Edge



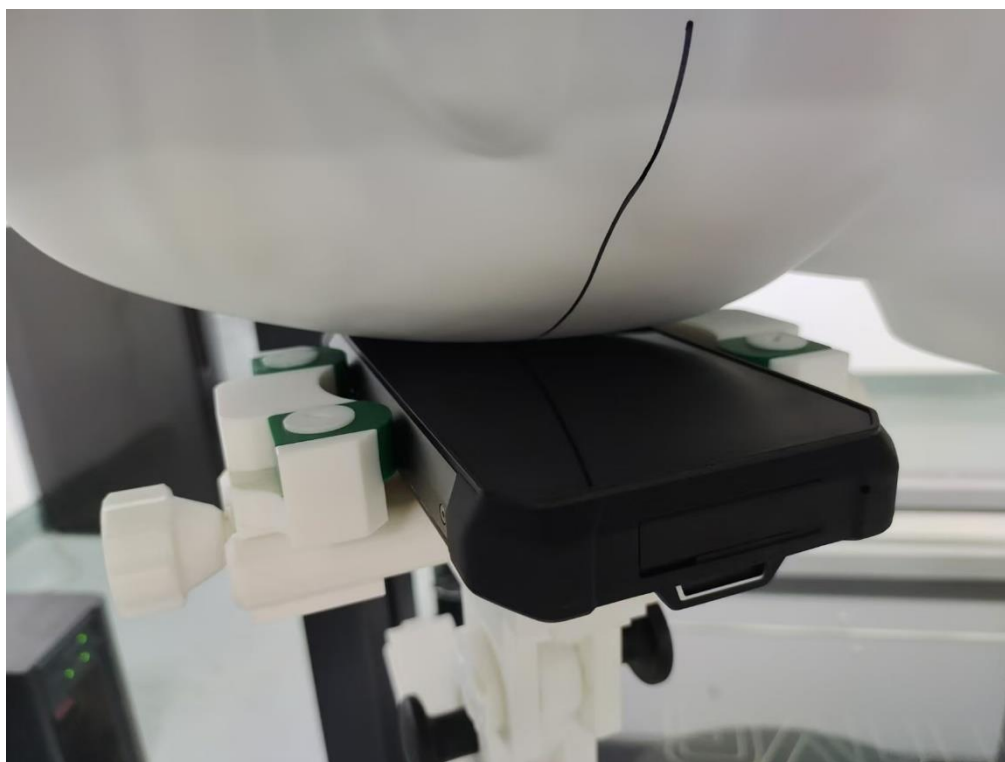
Bottom Edge



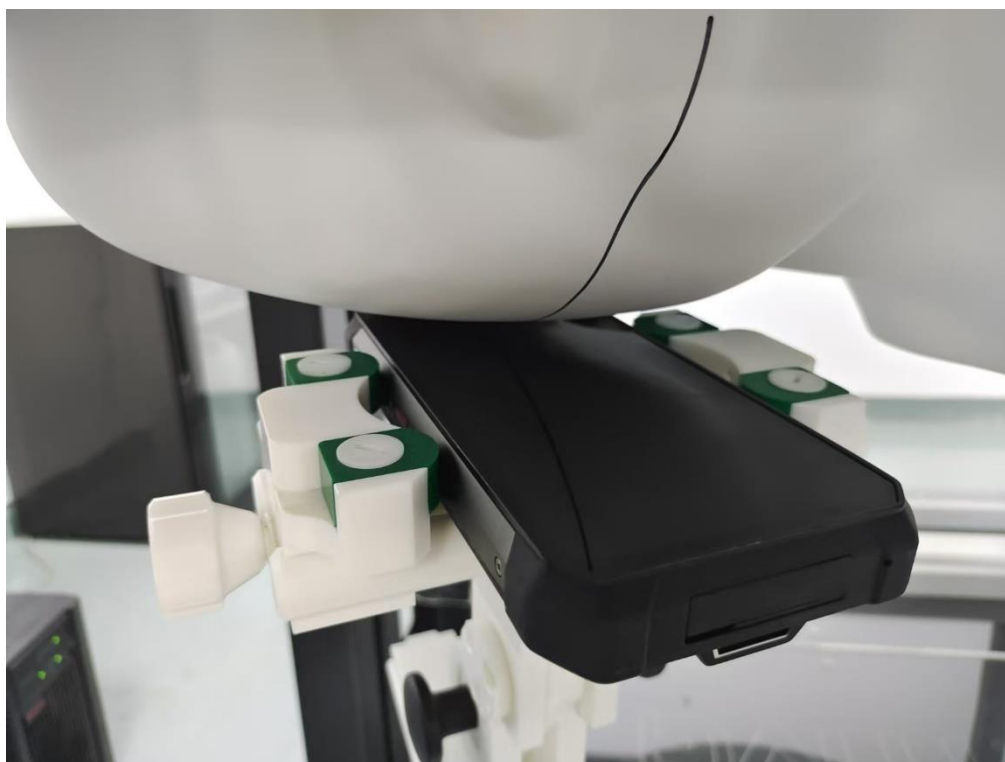


10.2 Setup Photos

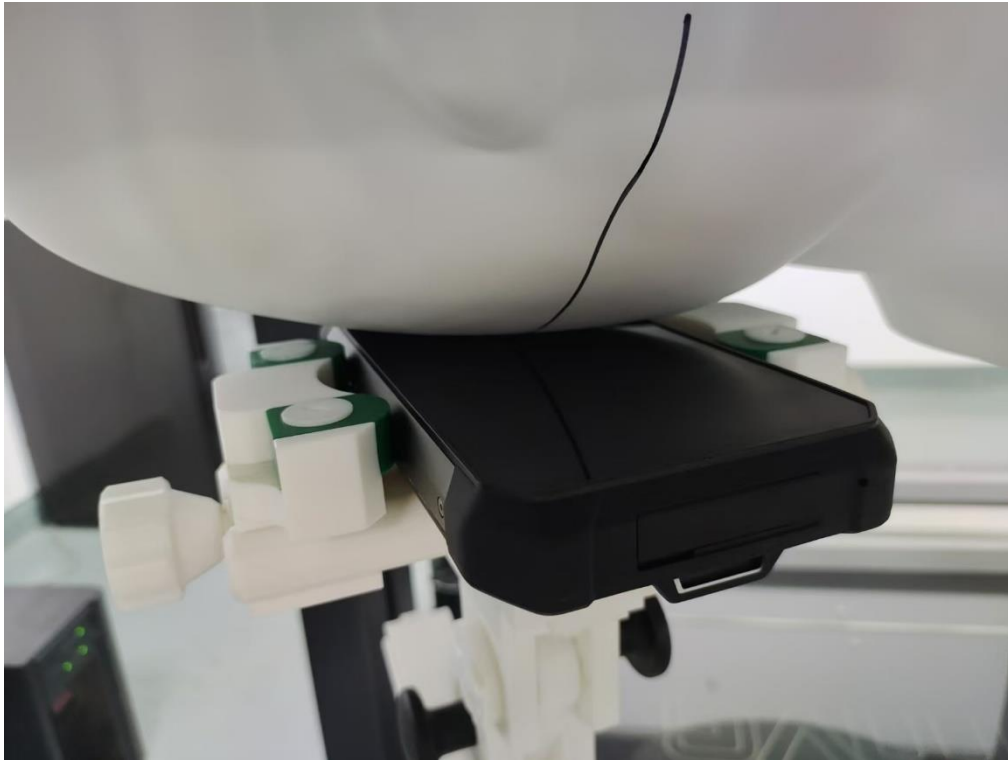
Right Touch



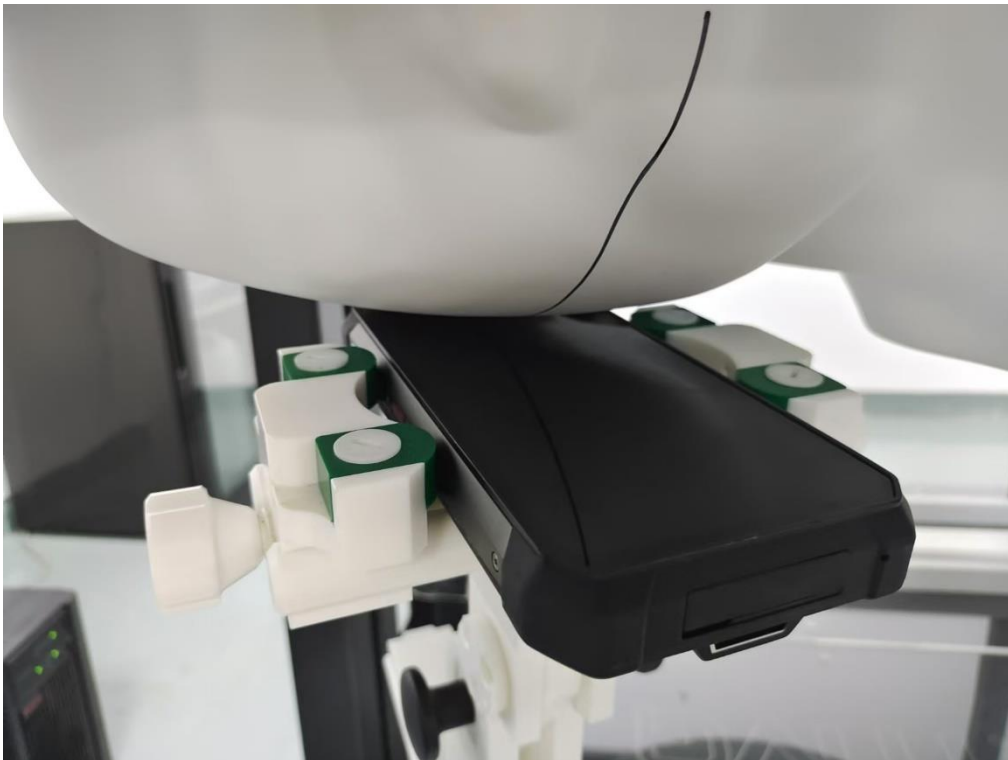
Right Tilt



Left Touch

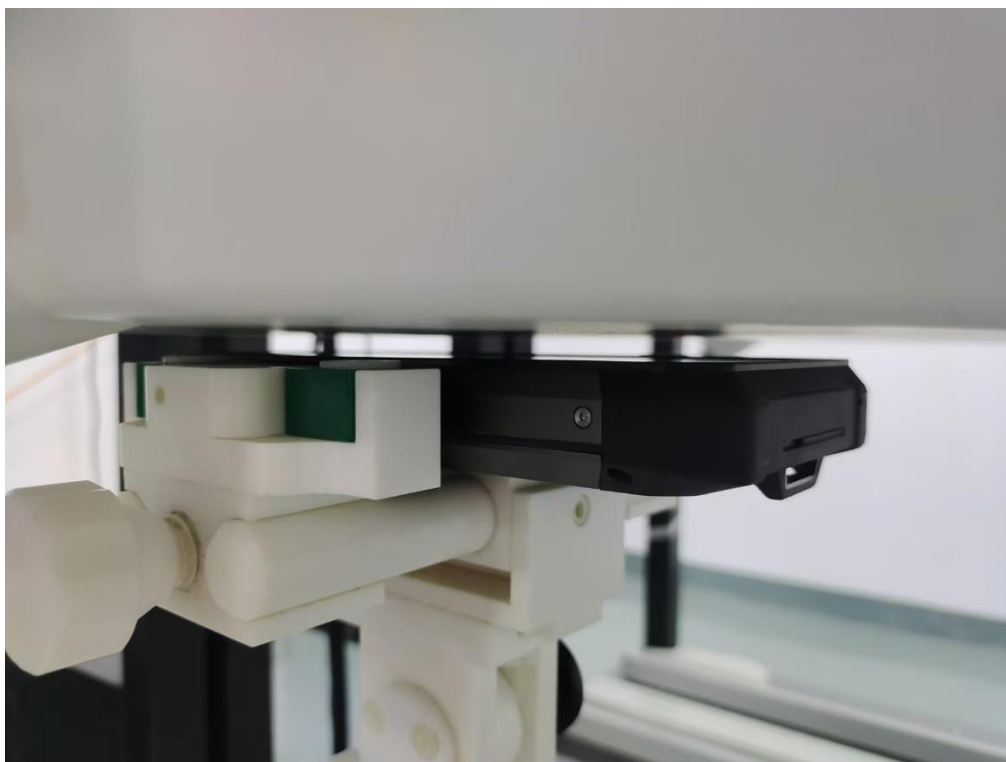


Left Tilt





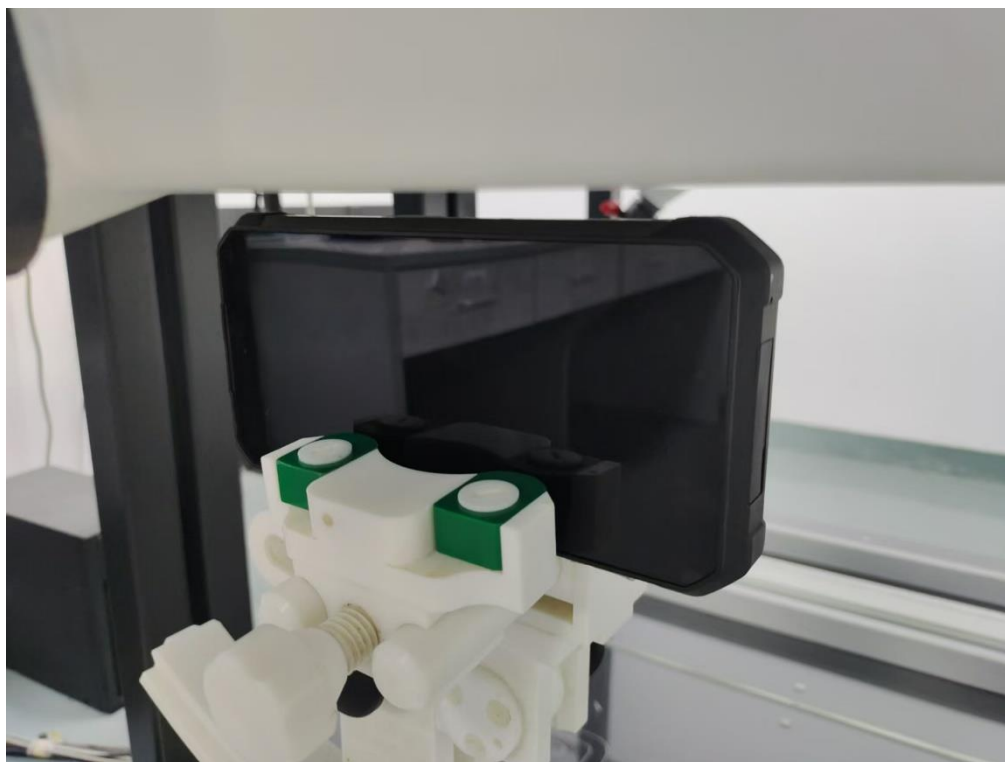
Body Front side



Body Back side



Body Right side



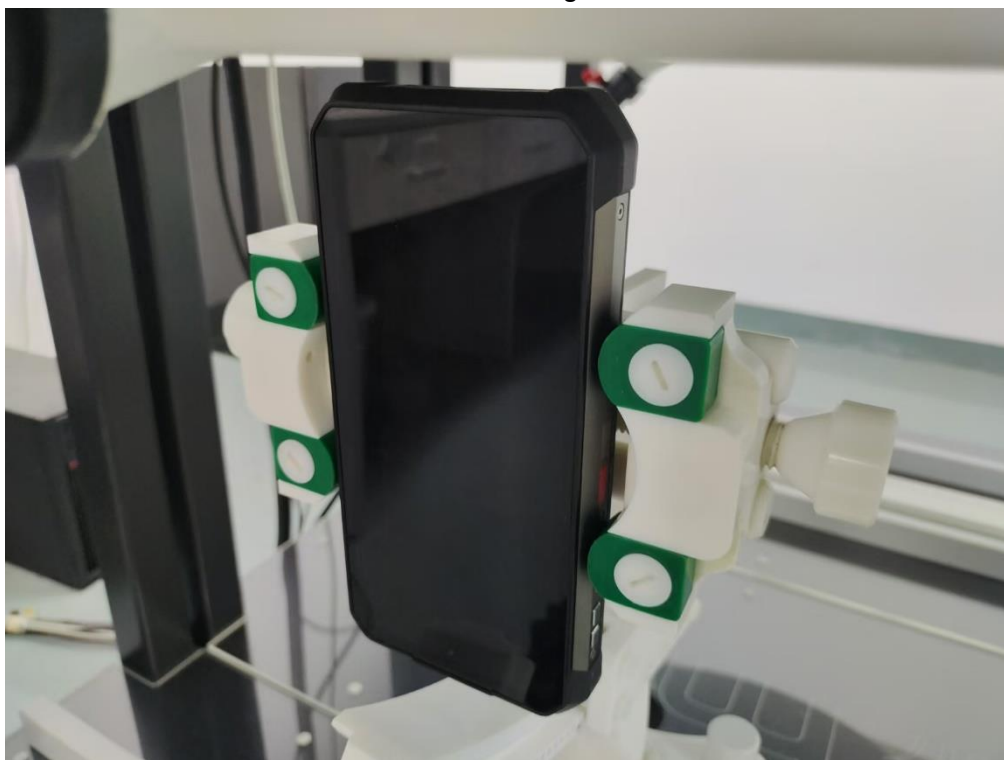
Body Left side



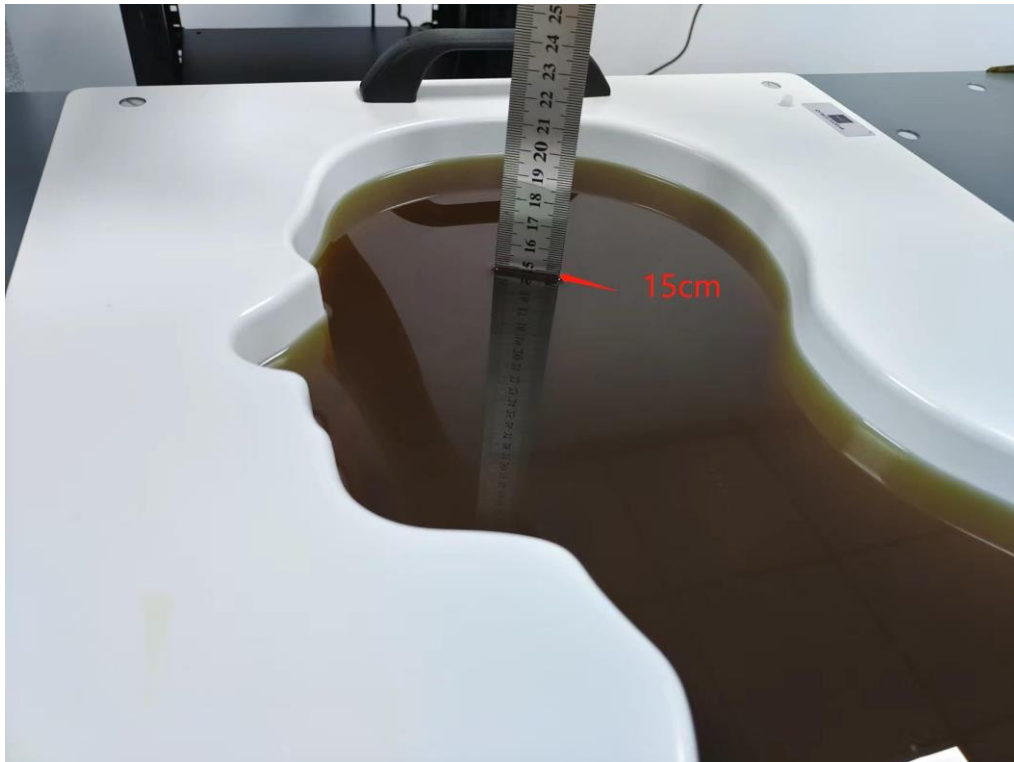
Top Edge



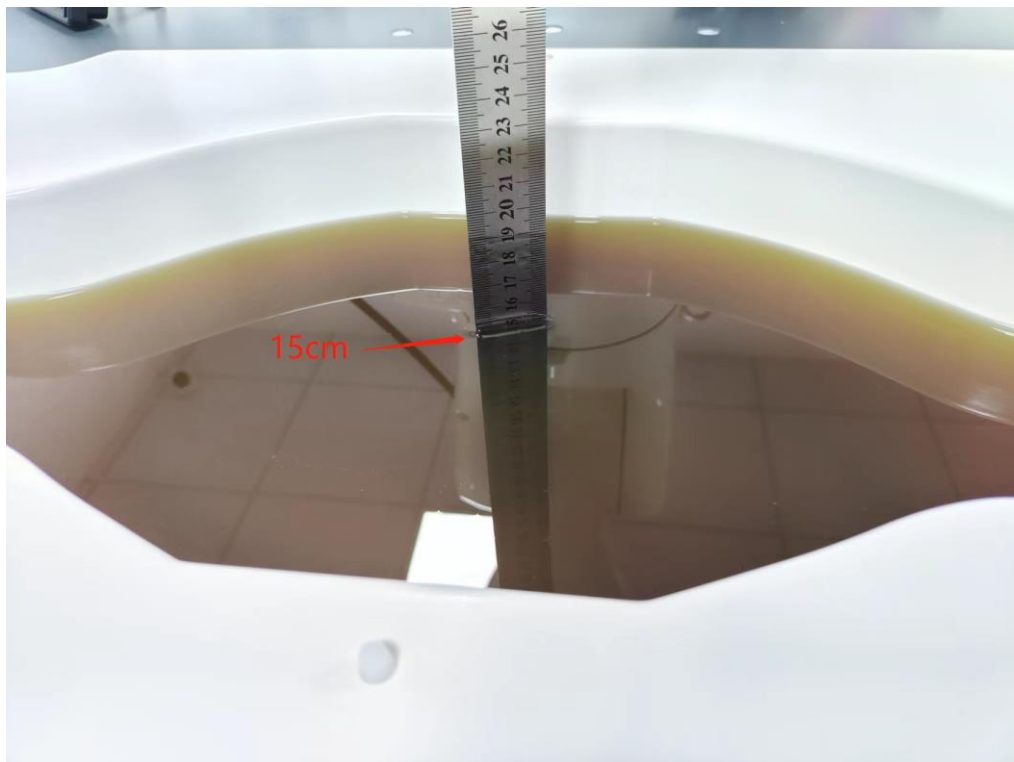
Bottom Edge



Liquid depth (15 cm)



Liquid depth (15 cm)





11. SAR Result Summary

11.1 Head SAR

Band	Model	Test Position	Freq.	SAR (10g) (W/kg)	Power Drift(%)	Max. Turn-up Power(dBm)	Meas. Output Power(dBm)	Scaled SAR (W/Kg)	Meas. No.
GSM900	Voice	Right Cheek	880.2	0.012	2.80	34.00	33.60	0.013	/
		Right Tilt	880.2	0.011	3.07	34.00	33.60	0.012	/
		Left Cheek	880.2	0.068	2.77	34.00	33.60	0.075	1
		Left Tilt	880.2	0.062	-3.54	34.00	33.60	0.068	/
GSM1800	Voice	Right Cheek	1784..8	0.020	3.26	31.50	31.41	0.020	/
		Right Tilt	1784..8	0.018	-0.46	31.50	31.41	0.018	/
		Left Cheek	1784..8	0.020	-2.97	31.50	31.41	0.020	3
		Left Tilt	1784..8	0.019	3.90	31.50	31.41	0.019	/
WCDMA Band I	RMC	Right Cheek	1922.4	0.034	3.20	24.50	24.02	0.038	/
		Right Tilt	1922.4	0.032	1.50	24.50	24.02	0.036	/
		Left Cheek	1922.4	0.134	-1.67	24.50	24.02	0.150	5
		Left Tilt	1922.4	0.122	-2.47	24.50	24.02	0.136	/
WCDMA Band VIII	RMC	Right Cheek	882.4	0.104	-0.16	24.50	24.04	0.116	/
		Right Tilt	882.4	0.093	-2.20	24.50	24.04	0.103	/
		Left Cheek	882.4	0.135	3.51	24.50	24.04	0.150	7
		Left Tilt	882.4	0.122	1.47	24.50	24.04	0.136	/
LTE Band 1	20MHz BW, 1RB Offset 0	Right Cheek	1970	0.071	-2.10	24.00	23.88	0.073	/
		Right Tilt	1970	0.065	2.19	24.00	23.88	0.067	/
		Left Cheek	1970	0.119	-1.02	24.00	23.88	0.122	9
		Left Tilt	1970	0.108	-2.04	24.00	23.88	0.111	/
LTE Band 3	20MHz BW, 1RB Offset 0	Right Cheek	1720	0.044	2.05	24.00	23.98	0.044	/
		Right Tilt	1720	0.041	0.34	24.00	23.98	0.041	/
		Left Cheek	1720	0.050	3.78	24.00	23.98	0.050	11
		Left Tilt	1720	0.046	-1.00	24.00	23.98	0.046	/
LTE Band 7	20MHz BW, 1RB Offset 0	Right Cheek	2510	0.071	3.68	21.50	21.02	0.079	/
		Right Tilt	2510	0.065	0.36	21.50	21.02	0.073	/
		Left Cheek	2510	0.088	0.89	21.50	21.02	0.098	13
		Left Tilt	2510	0.079	2.67	21.50	21.02	0.088	/
LTE Band 8	10MHz BW, 12RB Offset 0	Right Cheek	885	0.053	0.56	24.50	24.17	0.057	/
		Right Tilt	885	0.048	4.00	24.50	24.17	0.052	/
		Left Cheek	885	0.066	2.57	24.50	24.17	0.071	15
		Left Tilt	885	0.060	0.70	24.50	24.17	0.065	/
LTE Band 20	20MHz BW, 1RB Offset 0	Right Cheek	847	0.046	3.10	24.50	24.23	0.049	/
		Right Tilt	847	0.041	-1.94	24.50	24.23	0.044	/
		Left Cheek	847	0.053	3.24	24.50	24.23	0.056	17
		Left Tilt	847	0.048	0.66	24.50	24.23	0.051	/
LTE Band 28	20MHz BW, 1RB Offset 0	Right Cheek	713	0.053	1.12	24.50	24.32	0.055	/
		Right Tilt	713	0.048	-3.23	24.50	24.32	0.050	/
		Left Cheek	713	0.066	3.99	24.50	24.32	0.069	19
		Left Tilt	713	0.061	1.36	24.50	24.32	0.064	/



LTE Band 34	15MHz BW, 16RB Offset 0	Right Cheek	2017.5	0.059	-2.23	24.50	24.18	0.064	/
		Right Tilt	2017.5	0.054	0.69	24.50	24.18	0.058	/
		Left Cheek	2017.5	0.071	-0.63	24.50	24.18	0.076	21
		Left Tilt	2017.5	0.064	0.93	24.50	24.18	0.069	/
LTE Band 38	20MHz BW, 1RB Offset 0	Right Cheek	2610	0.057	3.09	21.50	21.06	0.063	/
		Right Tilt	2610	0.052	-1.63	21.50	21.06	0.058	/
		Left Cheek	2610	0.068	3.52	21.50	21.06	0.075	23
		Left Tilt	2610	0.063	-3.43	21.50	21.06	0.070	/
LTE Band 40	20MHz BW, 1RB Offset 0	Right Cheek	2390	0.078	2.51	24.50	24.15	0.085	/
		Right Tilt	2390	0.070	2.31	24.50	24.15	0.076	/
		Left Cheek	2390	0.094	1.40	24.50	24.15	0.102	25
		Left Tilt	2390	0.085	2.62	24.50	24.15	0.092	/
LTE Band 42	20MHz BW, 1RB Offset 0	Right Cheek	3500	0.024	-3.59	22.50	22.03	0.027	/
		Right Tilt	3500	0.023	3.62	22.50	22.03	0.026	/
		Left Cheek	3500	0.028	-3.63	22.50	22.03	0.031	27
		Left Tilt	3500	0.026	-1.81	22.50	22.03	0.029	/
2.4GHz WLAN ANT 1	802.11b	Right Cheek	2442	0.029	1.27	15.50	15.05	0.032	29
		Right Tilt	2442	0.024	-3.32	15.50	15.05	0.027	/
		Left Cheek	2442	0.022	-3.50	15.50	15.05	0.024	/
		Left Tilt	2442	0.017	-2.82	15.50	15.05	0.019	/
2.4GHz WLAN ANT 2	802.11b	Right Cheek	2442	0.018	1.09	14.50	14.28	0.019	/
		Right Tilt	2442	0.015	-0.78	14.50	14.28	0.016	/
		Left Cheek	2442	0.019	-1.26	14.50	14.28	0.020	31
		Left Tilt	2442	0.017	1.93	14.50	14.28	0.018	/
2.4GHz WLAN ANT MIMO	802.11ax-HE20	Right Cheek	2442	0.027	0.50	13.50	13.42	0.028	33
		Right Tilt	2442	0.021	3.31	13.50	13.42	0.021	/
		Left Cheek	2442	0.016	2.97	13.50	13.42	0.016	/
		Left Tilt	2442	0.014	-1.75	13.50	13.42	0.014	/
2.4GHz WLAN ANT 2 MIMO	802.11ax-HE20	Right Cheek	2442	0.015	1.01	13.50	13.42	0.015	/
		Right Tilt	2442	0.012	-1.37	13.50	13.42	0.012	/
		Left Cheek	2442	0.018	1.72	13.50	13.42	0.018	35
		Left Tilt	2442	0.016	2.87	13.50	13.42	0.016	/
5.2GHz WLAN ANT 1	802.11a	Right Cheek	5180	0.049	-1.90	13.00	12.58	0.054	37
		Right Tilt	5180	0.040	-3.17	13.00	12.58	0.044	/
		Left Cheek	5180	0.043	3.48	13.00	12.58	0.047	/
		Left Tilt	5180	0.034	0.18	13.00	12.58	0.037	/
5.2GHz WLAN ANT 2	802.11a	Right Cheek	5180	0.047	-3.72	16.00	15.55	0.052	39
		Right Tilt	5180	0.038	-1.05	16.00	15.55	0.042	/
		Left Cheek	5180	0.029	-0.97	16.00	15.55	0.032	/
		Left Tilt	5180	0.023	0.73	16.00	15.55	0.026	/
5.2GHz WLAN ANT 1 MIMO	802.11ax80	Right Cheek	5210	0.047	0.89	14.00	13.61	0.051	41
		Right Tilt	5210	0.037	3.31	14.00	13.61	0.040	/
		Left Cheek	5210	0.033	-0.92	14.00	13.61	0.036	/
		Left Tilt	5210	0.030	1.63	14.00	13.61	0.033	/
5.2GHz WLAN ANT 2 MIMO	802.11ax80	Right Cheek	5210	0.045	3.53	14.00	13.61	0.049	43
		Right Tilt	5210	0.037	-2.00	14.00	13.61	0.040	/
		Left Cheek	5210	0.032	-2.76	14.00	13.61	0.035	/
		Left Tilt	5210	0.029	-1.94	14.00	13.61	0.032	/



5.3GHz WLAN ANT 1	802.11a	Right Cheek	5320	0.054	-1.15	13.50	13.45	0.055	45
		Right Tilt	5320	0.045	3.99	13.50	13.45	0.046	/
		Left Cheek	5320	0.043	2.20	13.50	13.45	0.043	/
		Left Tilt	5320	0.034	-0.95	13.50	13.45	0.034	/
5.3GHz WLAN ANT 2	802.11a	Right Cheek	5320	0.046	-0.08	15.50	15.41	0.047	/
		Right Tilt	5320	0.038	3.50	15.50	15.41	0.039	/
		Left Cheek	5320	0.082	1.96	15.50	15.41	0.084	47
		Left Tilt	5320	0.066	-3.76	15.50	15.41	0.067	/
5.3GHz WLAN ANT MIMO	802.11ax80	Right Cheek	5290	0.043	-3.82	14.00	13.76	0.045	49
		Right Tilt	5290	0.035	-1.79	14.00	13.76	0.037	/
		Left Cheek	5290	0.033	-1.24	14.00	13.76	0.035	/
		Left Tilt	5290	0.030	2.45	14.00	13.76	0.032	/
5.3GHz WLAN ANT 2 MIMO	802.11ax80	Right Cheek	5290	0.054	-2.62	14.00	13.76	0.057	51
		Right Tilt	5290	0.043	-3.62	14.00	13.76	0.045	/
		Left Cheek	5290	0.038	2.05	14.00	13.76	0.040	/
		Left Tilt	5290	0.035	3.46	14.00	13.76	0.037	/
5.6GHz WLAN ANT 1	802.11a	Right Cheek	5500	0.038	-1.57	15.50	15.27	0.040	/
		Right Tilt	5500	0.035	-2.54	15.50	15.27	0.037	/
		Left Cheek	5500	0.049	3.05	15.50	15.27	0.052	53
		Left Tilt	5500	0.045	1.87	15.50	15.27	0.047	/
5.6GHz WLAN ANT 2	802.11a	Right Cheek	5500	0.023	1.87	15.50	15.16	0.025	/
		Right Tilt	5500	0.020	2.65	15.50	15.16	0.022	/
		Left Cheek	5500	0.047	-3.03	15.50	15.16	0.051	55
		Left Tilt	5500	0.042	-1.42	15.50	15.16	0.045	/
5.6GHz WLAN ANT 1 MIMO	802.11n- HT40	Right Cheek	5510	0.051	-0.24	14.50	14.46	0.051	57
		Right Tilt	5510	0.041	3.99	14.50	14.46	0.041	/
		Left Cheek	5510	0.039	2.57	14.50	14.46	0.039	/
		Left Tilt	5510	0.035	1.69	14.50	14.46	0.035	/
5.6GHz WLAN ANT 2 MIMO	802.11n- HT40	Right Cheek	5510	0.046	-2.20	14.50	14.46	0.046	59
		Right Tilt	5510	0.037	0.82	14.50	14.46	0.037	/
		Left Cheek	5510	0.035	3.13	14.50	14.46	0.035	/
		Left Tilt	5510	0.033	2.98	14.50	14.46	0.033	/
5.8GHz WLAN ANT 1	802.11a	Right Cheek	5745	0.053	2.59	13.00	12.93	0.054	/
		Right Tilt	5745	0.048	-1.66	13.00	12.93	0.049	/
		Left Cheek	5745	0.060	2.00	13.00	12.93	0.061	61
		Left Tilt	5745	0.055	2.63	13.00	12.93	0.056	/
5.8GHz WLAN ANT 2	802.11a	Right Cheek	5785	0.050	1.14	13.50	13.07	0.055	/
		Right Tilt	5785	0.045	-2.43	13.50	13.07	0.050	/
		Left Cheek	5785	0.057	-0.55	13.50	13.07	0.063	63
		Left Tilt	5785	0.052	-1.23	13.50	13.07	0.057	/
5.8GHz WLAN ANT 1 MIMO	802.11n- HT40	Right Cheek	5755	0.055	-3.47	11.00	10.93	0.056	65
		Right Tilt	5755	0.049	3.46	11.00	10.93	0.050	/
		Left Cheek	5755	0.053	-2.35	11.00	10.93	0.054	/
		Left Tilt	5755	0.047	1.81	11.00	10.93	0.048	/
5.8GHz WLAN ANT 2 MIMO	802.11n- HT40	Right Cheek	5755	0.053	1.96	11.00	10.93	0.054	67
		Right Tilt	5755	0.044	-4.00	11.00	10.93	0.045	/
		Left Cheek	5755	0.040	2.74	11.00	10.93	0.041	/
		Left Tilt	5755	0.036	0.16	11.00	10.93	0.037	/



SA N1	50MHz 50RB offset 0	Right Cheek	1970	0.140	2.81	23.50	23.02	0.156	/
		Right Tilt	1970	0.126	1.91	23.50	23.02	0.141	/
		Left Cheek	1970	0.171	0.93	23.50	23.02	0.191	69
		Left Tilt	1970	0.154	1.34	23.50	23.02	0.172	/
SA N3	30MHz 1RB offset 0	Right Cheek	1725	0.170	0.48	23.70	23.23	0.189	/
		Right Tilt	1725	0.153	-3.25	23.70	23.23	0.170	/
		Left Cheek	1725	0.207	0.51	23.70	23.23	0.231	71
		Left Tilt	1725	0.186	-1.70	23.70	23.23	0.207	/
SA N7	20MHz 50RB offset 0	Right Cheek	2560	0.288	0.80	23.30	22.87	0.318	/
		Right Tilt	2560	0.259	2.18	23.30	22.87	0.286	/
		Left Cheek	2510	0.275	1.80	23.30	22.31	0.345	/
		Left Cheek	2535	0.291	2.24	23.30	22.30	0.366	/
		Left Cheek	2560	0.359	0.04	23.30	22.87	0.396	73
		Left Tilt	2560	0.323	0.23	23.30	22.87	0.357	/
SA N8	20MHz 50RB offset 0	Right Cheek	897.5	0.046	0.56	24.00	23.54	0.051	/
		Right Tilt	897.5	0.042	0.09	24.00	23.54	0.047	/
		Left Cheek	897.5	0.053	-2.38	24.00	23.54	0.059	75
		Left Tilt	897.5	0.048	-1.19	24.00	23.54	0.053	/
SA N20	20MHz 50RB offset 0	Right Cheek	847	0.048	3.81	21.30	22.76	0.034	/
		Right Tilt	847	0.044	-1.03	21.30	22.76	0.031	/
		Left Cheek	847	0.060	-3.35	21.30	22.76	0.043	77
		Left Tilt	847	0.055	-1.33	21.30	22.76	0.039	/
SA N28	20MHz 1RB offset 0	Right Cheek	731	0.031	-3.98	24.00	23.60	0.034	/
		Right Tilt	731	0.028	2.98	24.00	23.60	0.031	/
		Left Cheek	731	0.034	-1.86	24.00	23.60	0.037	79
		Left Tilt	731	0.031	-3.69	24.00	23.60	0.034	/
SA N38	40MHz 25RB offset 0	Right Cheek	2595	0.169	2.13	23.50	23.02	0.189	/
		Right Tilt	2595	0.153	-3.64	23.50	23.02	0.171	/
		Left Cheek	2595	0.211	-1.44	23.50	23.02	0.236	81
		Left Tilt	2595	0.191	-3.45	23.50	23.02	0.213	/
SA N40	80MHz 1RB offset 0	Right Cheek	2340	0.012	-3.70	23.50	23.20	0.013	/
		Right Tilt	2340	0.010	-3.97	23.50	23.20	0.011	/
		Left Cheek	2340	0.015	-2.56	23.50	23.20	0.016	83
		Left Tilt	2340	0.014	-2.79	23.50	23.20	0.015	/
SA N41	100MHz 135RB offset 0	Right Cheek	2595	0.113	0.36	23.00	22.46	0.128	/
		Right Tilt	2595	0.103	3.33	23.00	22.46	0.117	/
		Left Cheek	2595	0.140	1.94	23.00	22.46	0.159	85
		Left Tilt	2595	0.126	-0.24	23.00	22.46	0.143	/
SA N77	100MHz 135RB offset 0	Right Cheek	3800	0.035	-3.63	22.50	22.17	0.038	/
		Right Tilt	3800	0.032	-1.69	22.50	22.17	0.035	/
		Left Cheek	3800	0.039	0.51	22.50	22.17	0.042	87
		Left Tilt	3800	0.037	3.71	22.50	22.17	0.040	/
SA N78	100MHz 135RB offset 0	Right Cheek	3750	0.021	-3.49	22.50	22.29	0.022	/
		Right Tilt	3750	0.019	-2.10	22.50	22.29	0.020	/
		Left Cheek	3750	0.026	3.24	22.50	22.29	0.027	89
		Left Tilt	3750	0.024	0.58	22.50	22.29	0.025	/



Band	Mode	Max SAR	WIFI MIMO
		(W/Kg)	
2.4G WLAN	802.11ax-HE20 ANT 1	0.028	0.046
	802.11ax-HE20 ANT 2	0.018	
5.2G WLAN	802.11ax80 ANT 1	0.051	0.100
	802.11ax80 ANT 2	0.049	
5.3G WLAN	802.11ax80 ANT 1	0.045	0.102
	802.11ax80 ANT 2	0.057	
5.6G WLAN	802.11n-HT40 ANT 1	0.051	0.097
	802.11n-HT40 ANT 2	0.046	
5.8G WLAN	802.11n-HT40 ANT 1	0.056	0.110
	802.11n-HT40 ANT 2	0.054	

NSA:

Band	Model	Test Position	Freq.	SAR (10g) (W/kg)	Power Drift(%)	Max. Turn-up Power(dBm)	Meas. Output Power(dBm)	Scaled SAR (W/Kg)	Meas. No.
SA N78	100MHz 135RB offset 0	Right Cheek	3800	0.035	-3.63	22.50	22.17	0.038	/
		Right Tilt	3800	0.032	-1.69	22.50	22.17	0.035	/
		Left Cheek	3800	0.039	0.51	22.50	22.17	0.042	87
		Left Tilt	3800	0.037	3.71	22.50	22.17	0.040	/
LTE Band 1	20MHz BW, 1RB Offset 0	Right Cheek	1970	0.071	-2.10	24.00	23.88	0.073	/
		Right Tilt	1970	0.065	2.19	24.00	23.88	0.067	/
		Left Cheek	1970	0.119	-1.02	24.00	23.88	0.122	9
		Left Tilt	1970	0.108	-2.04	24.00	23.88	0.111	/
LTE Band 3	20MHz BW, 1RB Offset 0	Right Cheek	1720	0.044	2.05	24.00	23.98	0.044	/
		Right Tilt	1720	0.041	0.34	24.00	23.98	0.041	/
		Left Cheek	1720	0.050	3.78	24.00	23.98	0.050	11
		Left Tilt	1720	0.046	-1.00	24.00	23.98	0.046	/

Band	Mode	Max SAR	NSA_N78+B1
		(W/Kg)	
NSA_N78+B1	N78	0.042	0.164
	LTE B1	0.122	
Band	Mode	Max SAR	NSA_N78+B3
		(W/Kg)	
NSA_N78+B3	N78	0.042	0.092
	LTE B3	0.050	



11.2 Body SAR

Band	Model	Test Position	Freq.	SAR (10g) (W/kg)	Power Drift(%)	Max. Turn-up Power(dBm)	Meas. Output Power(dBm)	Scaled SAR (W/Kg)	Meas. No.
GSM900	GPRS (GMSK, 4-Slot)	Front Side	880.2	0.294	0.99	28.50	28.43	0.299	/
		Back Side	880.2	0.571	3.09	28.50	28.43	0.580	2
		Left Edge	880.2	0.130	-0.49	28.50	28.43	0.132	/
		Right Edge	880.2	0.160	0.81	28.50	28.43	0.163	/
		Top Edge	880.2	0.034	1.81	28.50	28.43	0.035	/
		Bottom Edge	880.2	0.298	2.34	28.50	28.43	0.303	/
GSM1800	GPRS (GMSK, 4-Slot)	Front Side	1784.8	0.158	3.99	25.00	24.49	0.178	/
		Back Side	1710.2	0.627	-0.19	25.00	24.23	0.749	/
		Back Side	1747.8	0.663	-1.27	25.00	24.29	0.781	/
		Back Side	1784.8	0.711	-2.33	25.00	24.49	0.800	4
		Left Edge	1784.8	0.035	-3.82	25.00	24.49	0.039	/
		Right Edge	1784.8	0.046	0.71	25.00	24.49	0.052	/
		Top Edge	1784.8	0.073	1.71	25.00	24.49	0.082	/
		Bottom Edge	1784.8	0.687	-0.14	25.00	24.49	0.773	/
WCDMA Band I	RMC	Front Side	1922.4	0.146	-3.80	24.50	24.02	0.163	/
		Back Side	1922.4	0.538	3.76	24.50	24.02	0.601	6
		Left Edge	1922.4	0.057	2.49	24.50	24.02	0.064	/
		Right Edge	1922.4	0.073	1.73	24.50	24.02	0.082	/
		Top Edge	1922.4	0.038	2.96	24.50	24.02	0.042	/
		Bottom Edge	1922.4	0.537	-3.22	24.50	24.02	0.600	/
WCDMA Band VIII	RMC	Front Side	882.4	0.147	0.08	24.50	24.04	0.163	/
		Back Side	882.4	0.243	-0.04	24.50	24.04	0.270	8
		Left Edge	882.4	0.098	3.44	24.50	24.04	0.109	/
		Right Edge	882.4	0.117	2.97	24.50	24.04	0.130	/
		Top Edge	882.4	0.019	1.12	24.50	24.04	0.021	/
		Bottom Edge	882.4	0.134	1.44	24.50	24.04	0.149	/
LTE Band 1	20MHz BW, 1RB Offset 0	Front Side	1970	0.099	0.38	24.00	23.88	0.102	/
		Back Side	1970	0.363	-3.81	24.00	23.88	0.373	/
		Left Edge	1970	0.038	-3.59	24.00	23.88	0.039	/
		Right Edge	1970	0.050	-0.35	24.00	23.88	0.051	/
		Top Edge	1970	0.025	-2.18	24.00	23.88	0.026	/
		Bottom Edge	1970	0.368	-1.98	24.00	23.88	0.378	10
LTE Band 3	20MHz BW, 1RB Offset 0	Front Side	1720	0.153	-2.43	24.00	23.98	0.154	/
		Back Side	1720	0.562	-0.10	24.00	23.98	0.565	12
		Left Edge	1720	0.059	3.94	24.00	23.98	0.059	/
		Right Edge	1720	0.076	2.52	24.00	23.98	0.076	/
		Top Edge	1720	0.042	2.00	24.00	23.98	0.042	/
		Bottom Edge	1720	0.529	0.15	24.00	23.98	0.531	/
LTE Band 7	20MHz BW, 1RB Offset 0	Front Side	2510	0.098	-3.40	21.50	21.02	0.109	/
		Back Side	2510	0.347	-2.86	21.50	21.02	0.388	14
		Left Edge	2510	0.039	-1.57	21.50	21.02	0.044	/
		Right Edge	2510	0.049	-0.49	21.50	21.02	0.055	/
		Top Edge	2510	0.026	-2.98	21.50	21.02	0.029	/
		Bottom Edge	2510	0.271	3.36	21.50	21.02	0.303	/



LTE Band 8	20MHz BW, 12RB Offset 0	Front Side	885	0.058	-2.54	24.50	24.17	0.063	/
		Back Side	885	0.217	3.49	24.50	24.17	0.234	16
		Left Edge	885	0.021	2.23	24.50	24.17	0.023	/
		Right Edge	885	0.029	-2.92	24.50	24.17	0.031	/
		Top Edge	885	0.016	2.03	24.50	24.17	0.017	/
		Bottom Edge	885	0.140	1.51	24.50	24.17	0.151	/
LTE Band 20	20MHz BW, 1RB Offset 0	Front Side	847	0.085	2.92	24.50	24.23	0.090	/
		Back Side	847	0.142	3.09	24.50	24.23	0.151	18
		Left Edge	847	0.060	-3.81	24.50	24.23	0.064	/
		Right Edge	847	0.067	-3.82	24.50	24.23	0.071	/
		Top Edge	847	0.008	3.44	24.50	24.23	0.009	/
		Bottom Edge	847	0.084	-3.01	24.50	24.23	0.089	/
LTE Band 28	20MHz BW, 1RB Offset 0	Front Side	713	0.089	-1.04	24.50	24.32	0.093	/
		Back Side	713	0.148	0.64	24.50	24.32	0.154	20
		Left Edge	713	0.061	-2.97	24.50	24.32	0.064	/
		Right Edge	713	0.073	1.77	24.50	24.32	0.076	/
		Top Edge	713	0.012	1.80	24.50	24.32	0.013	/
		Bottom Edge	713	0.087	-2.88	24.50	24.32	0.091	/
LTE Band 34	15MHz BW, 16RB Offset 0	Front Side	2017.5	0.062	-1.32	24.50	24.18	0.067	/
		Back Side	2017.5	0.229	-1.90	24.50	24.18	0.247	/
		Left Edge	2017.5	0.027	2.30	24.50	24.18	0.029	/
		Right Edge	2017.5	0.031	-3.30	24.50	24.18	0.033	/
		Top Edge	2017.5	0.019	2.86	24.50	24.18	0.020	/
		Bottom Edge	2017.5	0.313	-3.36	24.50	24.18	0.337	22
LTE Band 38	20MHz BW, 1RB Offset 0	Front Side	2610	0.053	-3.76	21.50	21.06	0.059	/
		Back Side	2610	0.192	2.35	21.50	21.06	0.212	24
		Left Edge	2610	0.019	2.01	21.50	21.06	0.021	/
		Right Edge	2610	0.025	1.04	21.50	21.06	0.028	/
		Top Edge	2610	0.014	2.76	21.50	21.06	0.015	/
		Bottom Edge	2610	0.152	-2.97	21.50	21.06	0.168	/
LTE Band 40	20MHz BW, 1RB Offset 0	Front Side	2390	0.056	-3.61	24.50	24.15	0.061	/
		Back Side	2390	0.208	1.28	24.50	24.15	0.225	/
		Left Edge	2390	0.021	0.71	24.50	24.15	0.023	/
		Right Edge	2390	0.028	-1.09	24.50	24.15	0.030	/
		Top Edge	2390	0.016	3.27	24.50	24.15	0.017	/
		Bottom Edge	2390	0.265	1.18	24.50	24.15	0.287	26
LTE Band 42	20MHz BW, 1RB Offset 0	Front Side	3500	0.089	-1.11	22.50	22.03	0.099	/
		Back Side	3500	0.320	-3.67	22.50	22.03	0.357	28
		Left Edge	3500	0.183	-1.82	22.50	22.03	0.204	/
		Right Edge	3500	0.045	-0.95	22.50	22.03	0.050	/
		Top Edge	3500	0.023	-2.74	22.50	22.03	0.026	/
		Bottom Edge	3500	0.081	0.14	22.50	22.03	0.090	/
2.4GHz WLAN ANT 1	802.11b	Front Side	2442	0.007	-3.38	15.50	15.05	0.008	/
		Back Side	2442	0.012	2.46	15.50	15.05	0.013	/
		Left Edge	2442	0.009	-2.39	15.50	15.05	0.010	/
		Right Edge	2442	0.017	-1.14	15.50	15.05	0.019	/
		Top Edge	2442	0.025	0.95	15.50	15.05	0.028	30
		Bottom Edge	2442	0.009	3.32	15.50	15.05	0.010	/



2.4GHz WLAN ANT 2	802.11b	Front Side	2442	0.005	-0.48	14.50	14.28	0.005	/
		Back Side	2442	0.021	-1.35	14.50	14.28	0.022	32
		Left Edge	2442	0.007	2.93	14.50	14.28	0.007	/
		Right Edge	2442	0.010	-0.83	14.50	14.28	0.011	/
		Top Edge	2442	0.015	3.84	14.50	14.28	0.016	/
		Bottom Edge	2442	0.005	1.84	14.50	14.28	0.005	/
2.4GHz WLAN ANT 1 MIMO	802.11ax- HE20	Front Side	2442	0.007	-2.40	13.50	13.42	0.007	/
		Back Side	2442	0.017	2.90	13.50	13.42	0.017	/
		Left Edge	2442	0.009	-3.13	13.50	13.42	0.009	/
		Right Edge	2442	0.010	-2.28	13.50	13.42	0.010	/
		Top Edge	2442	0.021	3.05	13.50	13.42	0.021	34
		Bottom Edge	2442	0.007	2.86	13.50	13.42	0.007	/
2.4GHz WLAN ANT 2 MIMO	802.11ax- HE20	Front Side	2442	0.012	2.26	13.50	13.42	0.012	/
		Back Side	2442	0.020	-0.67	13.50	13.42	0.020	/
		Left Edge	2442	0.012	-3.95	13.50	13.42	0.012	/
		Right Edge	2442	0.015	-1.62	13.50	13.42	0.015	/
		Top Edge	2442	0.029	3.26	13.50	13.42	0.030	36
		Bottom Edge	2442	0.011	1.13	13.50	13.42	0.011	/
5.2GHz WLAN ANT 1	802.11a	Front Side	5180	0.022	-1.33	13.00	12.58	0.024	/
		Back Side	5180	0.051	-2.87	13.00	12.58	0.056	/
		Left Edge	5180	0.021	0.77	13.00	12.58	0.023	/
		Right Edge	5180	0.036	-0.71	13.00	12.58	0.040	/
		Top Edge	5180	0.065	-0.07	13.00	12.58	0.072	38
		Bottom Edge	5180	0.016	-1.77	13.00	12.58	0.018	/
5.2GHz WLAN ANT 2	802.11a	Front Side	5180	0.024	1.55	16.00	15.55	0.027	/
		Back Side	5180	0.067	2.51	16.00	15.55	0.074	/
		Left Edge	5180	0.028	3.93	16.00	15.55	0.031	/
		Right Edge	5180	0.040	2.96	16.00	15.55	0.044	/
		Top Edge	5180	0.081	-3.02	16.00	15.55	0.090	40
		Bottom Edge	5180	0.024	0.14	16.00	15.55	0.027	/
5.2GHz WLAN ANT 1 MIMO	802.11ax80	Front Side	5210	0.018	1.21	14.00	13.61	0.020	/
		Back Side	5210	0.041	-2.75	14.00	13.61	0.045	/
		Left Edge	5210	0.018	1.65	14.00	13.61	0.020	/
		Right Edge	5210	0.029	1.18	14.00	13.61	0.032	/
		Top Edge	5210	0.055	3.29	14.00	13.61	0.060	42
		Bottom Edge	5210	0.017	2.36	14.00	13.61	0.019	/
5.2GHz WLAN ANT 2 MIMO	802.11ax80	Front Side	5210	0.017	-3.22	14.00	13.61	0.019	/
		Back Side	5210	0.046	-3.40	14.00	13.61	0.050	/
		Left Edge	5210	0.023	-1.50	14.00	13.61	0.025	/
		Right Edge	5210	0.033	2.97	14.00	13.61	0.036	/
		Top Edge	5210	0.061	-1.99	14.00	13.61	0.067	44
		Bottom Edge	5210	0.016	0.63	14.00	13.61	0.018	/
5.3GHz WLAN ANT 1	802.11a	Front Side	5320	0.024	-0.48	13.50	13.45	0.024	/
		Back Side	5320	0.064	-0.22	13.50	13.45	0.065	/
		Left Edge	5320	0.028	1.13	13.50	13.45	0.028	/
		Right Edge	5320	0.041	2.75	13.50	13.45	0.041	/
		Top Edge	5320	0.082	-3.38	13.50	13.45	0.083	46
		Bottom Edge	5320	0.023	-3.66	13.50	13.45	0.023	/



5.3GHz WLAN ANT 2	802.11a	Front Side	5320	0.012	0.74	15.50	15.41	0.012	/
		Back Side	5320	0.033	2.77	15.50	15.41	0.034	/
		Left Edge	5320	0.017	1.45	15.50	15.41	0.017	/
		Right Edge	5320	0.021	0.12	15.50	15.41	0.021	/
		Top Edge	5320	0.042	1.23	15.50	15.41	0.043	48
		Bottom Edge	5320	0.010	-0.99	15.50	15.41	0.010	/
5.3GHz WLAN ANT 1 MIMO	802.11ax80	Front Side	5290	0.013	-3.61	14.00	13.76	0.014	/
		Back Side	5290	0.039	1.17	14.00	13.76	0.041	/
		Left Edge	5290	0.019	0.07	14.00	13.76	0.020	/
		Right Edge	5290	0.025	-0.27	14.00	13.76	0.026	/
		Top Edge	5290	0.047	3.68	14.00	13.76	0.050	50
		Bottom Edge	5290	0.013	-0.97	14.00	13.76	0.014	/
5.3GHz WLAN ANT 2 MIMO	802.11ax80	Front Side	5290	0.018	-0.39	14.00	13.76	0.019	/
		Back Side	5290	0.045	-2.87	14.00	13.76	0.048	/
		Left Edge	5290	0.019	0.40	14.00	13.76	0.020	/
		Right Edge	5290	0.027	-3.28	14.00	13.76	0.029	/
		Top Edge	5290	0.053	-0.50	14.00	13.76	0.056	52
		Bottom Edge	5290	0.017	3.73	14.00	13.76	0.018	/
5.6GHz WLAN ANT 1	802.11a	Front Side	5500	0.017	3.73	15.50	15.27	0.018	/
		Back Side	5500	0.046	-3.29	15.50	15.27	0.049	/
		Left Edge	5500	0.022	-0.07	15.50	15.27	0.023	/
		Right Edge	5500	0.028	-2.45	15.50	15.27	0.030	/
		Top Edge	5500	0.055	3.01	15.50	15.27	0.058	54
		Bottom Edge	5500	0.015	0.79	15.50	15.27	0.016	/
5.6GHz WLAN ANT 2	802.11a	Front Side	5500	0.015	2.08	15.50	15.16	0.016	/
		Back Side	5500	0.043	-3.50	15.50	15.16	0.047	/
		Left Edge	5500	0.018	-1.31	15.50	15.16	0.019	/
		Right Edge	5500	0.028	3.02	15.50	15.16	0.030	/
		Top Edge	5500	0.051	-1.78	15.50	15.16	0.055	56
		Bottom Edge	5500	0.013	1.71	15.50	15.16	0.014	/
5.6GHz WLAN ANT 1 MIMO	802.11n- HT40	Front Side	5510	0.017	-1.64	14.50	14.46	0.017	/
		Back Side	5510	0.047	-1.24	14.50	14.46	0.047	/
		Left Edge	5510	0.020	0.89	14.50	14.46	0.020	/
		Right Edge	5510	0.032	-2.24	14.50	14.46	0.032	/
		Top Edge	5510	0.060	2.77	14.50	14.46	0.061	58
		Bottom Edge	5510	0.015	-1.36	14.50	14.46	0.015	/
5.6GHz WLAN ANT 2 MIMO	802.11n- HT40	Front Side	5510	0.017	-0.51	14.50	14.46	0.017	/
		Back Side	5510	0.050	-1.57	14.50	14.46	0.050	/
		Left Edge	5510	0.019	3.37	14.50	14.46	0.019	/
		Right Edge	5510	0.030	-3.89	14.50	14.46	0.030	/
		Top Edge	5510	0.059	3.62	14.50	14.46	0.060	60
		Bottom Edge	5510	0.018	1.61	14.50	14.46	0.018	/
5.8GHz WLAN ANT 1	802.11a	Front Side	5745	0.015	2.89	13.00	12.93	0.015	/
		Back Side	5745	0.040	0.05	13.00	12.93	0.041	/
		Left Edge	5745	0.017	2.73	13.00	12.93	0.017	/
		Right Edge	5745	0.026	-0.54	13.00	12.93	0.026	/
		Top Edge	5745	0.051	2.46	13.00	12.93	0.052	62
		Bottom Edge	5745	0.016	-0.86	13.00	12.93	0.016	/



5.8GHz WLAN ANT 2	802.11a	Front Side	5785	0.019	-2.59	13.50	13.07	0.021	/
		Back Side	5785	0.057	3.38	13.50	13.07	0.063	/
		Left Edge	5785	0.024	1.88	13.50	13.07	0.026	/
		Right Edge	5785	0.038	1.88	13.50	13.07	0.042	/
		Top Edge	5785	0.071	-2.67	13.50	13.07	0.078	64
		Bottom Edge	5785	0.020	-1.93	13.50	13.07	0.022	/
5.8GHz WLAN ANT 1 MIMO	802.11n- HT40	Front Side	5755	0.020	-1.95	11.00	10.93	0.020	/
		Back Side	5755	0.048	2.75	11.00	10.93	0.049	/
		Left Edge	5755	0.019	-1.93	11.00	10.93	0.019	/
		Right Edge	5755	0.030	2.70	11.00	10.93	0.030	/
		Top Edge	5755	0.058	-0.83	11.00	10.93	0.059	66
		Bottom Edge	5755	0.017	3.44	11.00	10.93	0.017	/
5.8GHz WLAN ANT 2 MIMO	802.11n- HT40	Front Side	5755	0.018	-0.89	11.00	10.93	0.018	/
		Back Side	5755	0.050	1.52	11.00	10.93	0.051	/
		Left Edge	5755	0.023	2.57	11.00	10.93	0.023	/
		Right Edge	5755	0.034	0.12	11.00	10.93	0.035	/
		Top Edge	5755	0.061	0.78	11.00	10.93	0.062	68
		Bottom Edge	5755	0.018	-2.02	11.00	10.93	0.018	/
SA N1	50MHz 50RB offset 0	Front Side	1970	0.075	-2.87	23.50	23.02	0.084	/
		Back Side	1970	0.277	3.89	23.50	23.02	0.309	70
		Left Edge	1970	0.138	-1.22	23.50	23.02	0.154	/
		Right Edge	1970	0.074	-1.46	23.50	23.02	0.083	/
		Top Edge	1970	0.074	-0.81	23.50	23.02	0.083	/
		Bottom Edge	1970	0.036	-1.06	23.50	23.02	0.040	/
SA N3	30MHz 1RB offset 0	Front Side	1725	0.097	-0.30	23.70	23.23	0.108	/
		Back Side	1725	0.353	2.71	23.70	23.23	0.393	72
		Left Edge	1725	0.177	-2.87	23.70	23.23	0.197	/
		Right Edge	1725	0.095	-1.89	23.70	23.23	0.106	/
		Top Edge	1725	0.096	3.58	23.70	23.23	0.107	/
		Bottom Edge	1725	0.047	1.76	23.70	23.23	0.052	/
SA N7	20MHz 50RB offset 0	Front Side	2560	0.056	1.94	23.30	22.87	0.062	/
		Back Side	2560	0.203	1.45	23.30	22.87	0.224	74
		Left Edge	2560	0.103	-2.82	23.30	22.87	0.114	/
		Right Edge	2560	0.057	1.01	23.30	22.87	0.063	/
		Top Edge	2560	0.054	-1.33	23.30	22.87	0.060	/
		Bottom Edge	2560	0.030	-0.89	23.30	22.87	0.033	/
SA N8	20MHz 50RB offset 0	Front Side	897.5	0.018	-0.60	24.00	23.54	0.020	/
		Back Side	897.5	0.059	-1.86	24.00	23.54	0.066	76
		Left Edge	897.5	0.034	3.24	24.00	23.54	0.038	/
		Right Edge	897.5	0.018	1.62	24.00	23.54	0.020	/
		Top Edge	897.5	0.016	-1.81	24.00	23.54	0.018	/
		Bottom Edge	897.5	0.010	1.71	24.00	23.54	0.011	/
SA N20	20MHz 50RB offset 0	Front Side	847	0.035	-0.82	21.30	22.76	0.025	/
		Back Side	847	0.116	-0.93	21.30	22.76	0.083	78
		Left Edge	847	0.059	1.55	21.30	22.76	0.042	/
		Right Edge	847	0.034	-3.26	21.30	22.76	0.024	/
		Top Edge	847	0.032	0.03	21.30	22.76	0.023	/
		Bottom Edge	847	0.017	0.19	21.30	22.76	0.012	/



SA N28	20MHz 1RB offset 0	Front Side	731	0.015	2.72	24.00	23.60	0.016	/
		Back Side	731	0.051	2.86	24.00	23.60	0.056	80
		Left Edge	731	0.027	1.18	24.00	23.60	0.030	/
		Right Edge	731	0.014	3.97	24.00	23.60	0.015	/
		Top Edge	731	0.016	-2.53	24.00	23.60	0.018	/
		Bottom Edge	731	0.009	-3.94	24.00	23.60	0.010	/
SA N38	40MHz 25RB offset 0	Front Side	2595	0.070	-1.74	23.50	23.02	0.078	/
		Back Side	2595	0.248	-0.19	23.50	23.02	0.277	82
		Left Edge	2595	0.126	-1.20	23.50	23.02	0.141	/
		Right Edge	2595	0.067	3.52	23.50	23.02	0.075	/
		Top Edge	2595	0.069	0.48	23.50	23.02	0.077	/
		Bottom Edge	2595	0.033	-1.57	23.50	23.02	0.037	/
SA N40	80MHz 1RB offset 0	Front Side	2340	0.011	-2.40	23.50	23.20	0.012	/
		Back Side	2340	0.018	-1.11	23.50	23.20	0.019	84
		Left Edge	2340	0.013	2.38	23.50	23.20	0.014	/
		Right Edge	2340	0.008	3.63	23.50	23.20	0.009	/
		Top Edge	2340	0.010	-3.67	23.50	23.20	0.011	/
		Bottom Edge	2340	0.006	0.36	23.50	23.20	0.006	/
SA N41	100MHz 135RB offset 0	Front Side	2595	0.050	-3.13	23.00	22.46	0.057	/
		Back Side	2595	0.174	2.14	23.00	22.46	0.197	86
		Left Edge	2595	0.091	-1.97	23.00	22.46	0.103	/
		Right Edge	2595	0.048	-1.10	23.00	22.46	0.054	/
		Top Edge	2595	0.048	1.99	23.00	22.46	0.054	/
		Bottom Edge	2595	0.024	3.37	23.00	22.46	0.027	/
SA N77	100MHz 135RB offset 0	Front Side	3800	0.092	0.63	22.50	22.17	0.099	/
		Back Side	3800	0.326	2.49	22.50	22.17	0.352	88
		Left Edge	3800	0.167	2.59	22.50	22.17	0.180	/
		Right Edge	3800	0.088	-0.25	22.50	22.17	0.095	/
		Top Edge	3800	0.089	2.88	22.50	22.17	0.096	/
		Bottom Edge	3800	0.046	-3.75	22.50	22.17	0.050	/
SA N78	100MHz 135RB offset 0	Front Side	3750	0.105	-0.71	22.50	22.29	0.110	/
		Back Side	3750	0.381	-3.37	22.50	22.29	0.400	90
		Left Edge	3750	0.041	-1.73	22.50	22.29	0.043	/
		Right Edge	3750	0.049	-3.27	22.50	22.29	0.051	/
		Top Edge	3750	0.027	1.44	22.50	22.29	0.028	/
		Bottom Edge	3750	0.095	-2.74	22.50	22.29	0.100	/



Band	Mode	Max SAR	WIFI MIMO
		(W/Kg)	
2.4G WLAN	802.11n-HT20 ANT 1	0.021	0.051
	802.11n-HT20 ANT 2	0.030	
5.2G WLAN	802.11n-HT40 ANT 1	0.060	0.127
	802.11n-HT40 ANT 2	0.067	
5.3G WLAN	802.11n-HT20 ANT 1	0.050	0.106
	802.11n-HT20 ANT 2	0.056	
5.6G WLAN	802.11n-HT40 ANT 1	0.061	0.121
	802.11n-HT40 ANT 2	0.060	
5.8G WLAN	802.11n-HT40 ANT 1	0.059	0.121
	802.11n-HT40 ANT 2	0.062	

NSA

Band	Model	Test Position	Freq.	SAR (10g) (W/kg)	Power Drift(%)	Max. Turn-up Power(dBm)	Meas. Output Power(dBm)	Scaled SAR (W/Kg)	Meas. No.
SA N78	100MHz 135RB offset 0	Front Side	3750	0.105	-0.71	22.50	22.29	0.110	/
		Back Side	3750	0.381	-3.37	22.50	22.29	0.400	90
		Left Edge	3750	0.041	-1.73	22.50	22.29	0.043	/
		Right Edge	3750	0.049	-3.27	22.50	22.29	0.051	/
		Top Edge	3750	0.027	1.44	22.50	22.29	0.028	/
		Bottom Edge	3750	0.095	-2.74	22.50	22.29	0.100	/
LTE Band 1	20MHz BW, 1RB Offset 0	Front Side	1970	0.099	0.38	24.00	23.88	0.102	/
		Back Side	1970	0.363	-3.81	24.00	23.88	0.373	/
		Left Edge	1970	0.038	-3.59	24.00	23.88	0.039	/
		Right Edge	1970	0.050	-0.35	24.00	23.88	0.051	/
		Top Edge	1970	0.025	-2.18	24.00	23.88	0.026	/
		Bottom Edge	1970	0.368	-1.98	24.00	23.88	0.378	10
LTE Band 3	20MHz BW, 1RB Offset 0	Front Side	1720	0.153	-2.43	24.00	23.98	0.154	/
		Back Side	1720	0.562	-0.10	24.00	23.98	0.565	12
		Left Edge	1720	0.059	3.94	24.00	23.98	0.059	/
		Right Edge	1720	0.076	2.52	24.00	23.98	0.076	/
		Top Edge	1720	0.042	2.00	24.00	23.98	0.042	/
		Bottom Edge	1720	0.529	0.15	24.00	23.98	0.531	/

Band	Mode	Max SAR	NSA_N78+B1
		(W/Kg)	
NSA_N78+B1	N78	0.400	0.778
	LTE B1	0.378	
Band	Mode	Max SAR	NSA_N78+B3
		(W/Kg)	
NSA_N78+B3	N78	0.400	0.965
	LTE B3	0.565	

Note:

1. The test separation of all above table is 5mm.
2. Two SIM card slot can't work at the same time.
3. When the 10g SAR is $\leq 1.0W/kg$, testing for low and high channel is optional.



11.3 Simultaneous Multi-band Transmission Evaluation

Application Simultaneous Transmission information:

Position	Simultaneous State
Head	1.GSM+ 2.4G/5G WLAN+NFC
	2.GSM+Bluetooth+NFC
	3.WCDMA+ 2.4G/5G WLAN+NFC
	4.WCDMA+Bluetooth+NFC
	5.LTE+ 2.4G/5G WLAN+NFC
	6.LTE+Bluetooth+NFC
	7.SA+ 2.4G/5G WLAN+NFC
	8.SA+Bluetooth+NFC
	9.NSA+ 2.4G/5G WLAN+NFC
	10.NSA+Bluetooth+NFC
Body	1.GSM+ 2.4G/5G WLAN+NFC
	2.GSM+Bluetooth+NFC
	3.WCDMA+ 2.4G/5G WLAN+NFC
	4.WCDMA+Bluetooth+NFC
	5.LTE+ 2.4G/5G WLAN+NFC
	6.LTE+Bluetooth+NFC
	7.SA+ 2.4G/5G WLAN+NFC
	8.SA+Bluetooth+NFC
	9.NSA+ 2.4G/5G WLAN+NFC
	10.NSA+Bluetooth+NFC

Note:

1. The Bluetooth and WLAN can't simultaneous transmission at the same time.
2. The 2.4GHz WLAN and 5GHz WLAN can't simultaneous transmission at the same time.
3. For simultaneous transmission at head and body exposure position, 2 transmitters simultaneous transmission was the worst state.
4. The reported SAR summation is calculated based on the same configuration and test position.
5. DUT will choose either 2G/3G/4G/5G according to the network signal condition, therefore, 2G/3G/4G/5G will not transmit simultaneously.



6. Multi -band transmission analysis for Body SAR is performed following EN 62209-2 procedure. One way of determining the threshold power level available to the secondary transmitter($P_{available}$) is to calculate it from the measured peak spatial-average SAR of the primary transmitter (SAR_1) according to the equation:

$$P_{available} = P_{th,m} * (SAR_{lim.} - SAR_1) / SAR_{lim.}$$

where:

$P_{th,m}$ is the threshold exclusion power level taken from Annex B of IEC 62479 for the frequency of the secondary transmitter at the separation distance used in the testing.

If the output power of the secondary transmitter is less than $P_{available}$, SAR measurement for the secondary transmitter is not necessary.

Simultaneous Mode	Position	SAR ₁	Secondary transmitter Maximum Average Power		Separation distance	P _{available}	Result
		10g(W/Kg)	dBm	mW	(mm)	mW	
GSM + 2.4GWLAN	Head	0.075	15.50	35.481	5	19.250	Yes
	Body	0.800			5	12.000	Yes
WCDMA + 2.4GWLAN	Head	0.150			5	18.500	Yes
	Body	0.601			5	13.990	Yes
LTE + 2.4GWLAN	Head	0.122			5	18.780	Yes
	Body	0.565			5	14.350	Yes
SA + 2.4GWLAN	Head	0.396			5	16.040	Yes
	Body	0.400			5	16.000	Yes
NSA + 2.4GWLAN	Head	0.164			5	18.360	Yes
	Body	0.965			5	10.350	Yes
GSM + 5.2GWLAN	Head	0.075	16.00	39.811	5	19.250	Yes
	Body	0.800			5	12.000	Yes
WCDMA + 5.2GWLAN	Head	0.150			5	18.500	Yes
	Body	0.601			5	13.990	Yes
LTE + 5.2GWLAN	Head	0.122			5	18.780	Yes
	Body	0.565			5	14.350	Yes
SA + 5.2GWLAN	Head	0.396			5	16.040	Yes
	Body	0.400			5	16.000	Yes
NSA + 5.2GWLAN	Head	0.164			5	18.360	Yes
	Body	0.965			5	10.350	Yes
GSM + 5.3GWLAN	Head	0.075	15.50	35.481	5	19.250	Yes
	Body	0.800			5	12.000	Yes
WCDMA + 5.3GWLAN	Head	0.150			5	18.500	Yes
	Body	0.601			5	13.990	Yes
LTE + 5.3GWLAN	Head	0.122			5	18.780	Yes
	Body	0.565			5	14.350	Yes
SA + 5.3GWLAN	Head	0.396			5	16.040	Yes
	Body	0.400			5	16.000	Yes
NSA + 5.3GWLAN	Head	0.164			5	18.360	Yes
	Body	0.965			5	10.350	Yes



GSM + 5.6GWLAN	Head	0.075	15.50	35.481	5	19.250	Yes
	Body	0.800			5	12.000	Yes
WCDMA + 5.6GWLAN	Head	0.150			5	18.500	Yes
	Body	0.601			5	13.990	Yes
LTE + 5.6GWLAN	Head	0.122			5	18.780	Yes
	Body	0.565			5	14.350	Yes
SA + 5.6GWLAN	Head	0.396			5	16.040	Yes
	Body	0.400			5	16.000	Yes
NSA + 5.6GWLAN	Head	0.164	13.50	22.387	5	18.360	Yes
	Body	0.965			5	10.350	Yes
GSM + 5.8GWLAN	Head	0.075			5	19.250	Yes
	Body	0.800			5	12.000	Yes
WCDMA + 5.8GWLAN	Head	0.150			5	18.500	Yes
	Body	0.601			5	13.990	Yes
LTE + 5.8GWLAN	Head	0.122			5	18.780	Yes
	Body	0.565			5	14.350	Yes
SA + 5.8GWLAN	Head	0.396	8.00	6.310	5	16.040	Yes
	Body	0.400			5	16.000	Yes
NSA + 5.8GWLAN	Head	0.164			5	18.360	Yes
	Body	0.965			5	10.350	Yes
GSM + BT	Head	0.075			5	19.250	No
	Body	0.800			5	12.000	No
WCDMA + BT	Head	0.150			5	18.500	No
	Body	0.601			5	13.990	No
LTE + BT	Head	0.122	8.00	6.310	5	18.780	No
	Body	0.565			5	14.350	No
SA +BT	Head	0.396			5	16.040	No
	Body	0.400			5	16.000	No
NSA +BT	Head	0.164			5	18.360	No
	Body	0.965			5	10.350	No

The worst case of simultaneous transmission:

Simultaneous Mode	Position	SAR ₁ 10g	SAR ₂ 10g	Secondary transmitter Maximum Average Power		Separation distance (mm)	$P_{\text{available}}$ mW	Result
		(W/Kg)	(W/Kg)	dBm	mW			
SA + 5.8GWLAN+NFC	Head	0.396	0.110	-38.000	0.00016	5	14.940	No
SA + 5.2GWLAN+NFC	Body	0.965	0.127	-38.000	0.00016	5	9.080	No



Simultaneous Mode	Position	Mode	Max. 10-g SAR W/Kg	10-g Sum SAR W/Kg
GSM + 2.4GWLAN	Head	GSM	0.075	0.121
		2.4GHz WLAN	0.046	
	Body	GSM	0.800	0.851
		2.4GHz WLAN	0.051	
WCDMA + 2.4GWLAN	Head	WCDMA	0.150	0.196
		2.4GHz WLAN	0.046	
	Body	WCDMA	0.601	0.652
		2.4GHz WLAN	0.051	
LTE + 2.4GWLAN	Head	LTE	0.122	0.168
		2.4GHz WLAN	0.046	
	Body	LTE	0.565	0.616
		2.4GHz WLAN	0.051	
SA + 2.4GWLAN	Head	SA	0.396	0.442
		2.4GHz WLAN	0.046	
	Body	SA	0.400	0.451
		2.4GHz WLAN	0.051	
NSA+ 2.4GWLAN	Head	NSA	0.164	0.210
		2.4GHz WLAN	0.046	
	Body	NSA	0.965	1.016
		2.4GHz WLAN	0.051	
GSM + 5.2GWLAN	Head	GSM	0.075	0.175
		5.2GHz WLAN	0.100	
	Body	GSM	0.800	0.927
		5.2GHz WLAN	0.127	
WCDMA + 5.2GWLAN	Head	WCDMA	0.150	0.250
		5.2GHz WLAN	0.100	
	Body	WCDMA	0.601	0.728
		5.2GHz WLAN	0.127	
LTE + 5.2GWLAN	Head	LTE	0.122	0.222
		5.2GHz WLAN	0.100	
	Body	LTE	0.565	0.692
		5.2GHz WLAN	0.127	
SA + 5.2GWLAN	Head	SA	0.396	0.496
		5.2GHz WLAN	0.100	
	Body	SA	0.400	0.527
		5.2GHz WLAN	0.127	
NSA + 5.2GWLAN	Head	NSA	0.164	0.264
		5.2GHz WLAN	0.100	
	Body	NSA	0.965	1.092
		5.2GHz WLAN	0.127	
GSM + 5.3GWLAN	Head	GSM	0.075	0.177
		5.3GHz WLAN	0.102	
	Body	GSM	0.800	0.906
		5.3GHz WLAN	0.106	



WCDMA + 5.3GWLAN	Head	WCDMA	0.150	0.252
		5.3GHz WLAN	0.102	
	Body	WCDMA	0.601	0.707
		5.3GHz WLAN	0.106	
LTE + 5.3GWLAN	Head	LTE	0.122	0.224
		5.3GHz WLAN	0.102	
	Body	LTE	0.565	0.671
		5.3GHz WLAN	0.106	
SA + 5.3GWLAN	Head	SA	0.396	0.498
		5.3GHz WLAN	0.102	
	Body	SA	0.400	0.506
		5.3GHz WLAN	0.106	
NSA + 5.3GWLAN	Head	NSA	0.164	0.266
		5.3GHz WLAN	0.102	
	Body	NSA	0.965	1.071
		5.3GHz WLAN	0.106	
GSM + 5.6GWLAN	Head	GSM	0.075	0.172
		5.6GHz WLAN	0.097	
	Body	GSM	0.800	0.921
		5.6GHz WLAN	0.121	
WCDMA + 5.6GWLAN	Head	WCDMA	0.150	0.247
		5.6GHz WLAN	0.097	
	Body	WCDMA	0.601	0.722
		5.6GHz WLAN	0.121	
LTE + 5.6GWLAN	Head	LTE	0.122	0.219
		5.6GHz WLAN	0.097	
	Body	LTE	0.565	0.686
		5.6GHz WLAN	0.121	
SA + 5.6GWLAN	Head	SA	0.396	0.493
		5.6GHz WLAN	0.097	
	Body	SA	0.400	0.521
		5.6GHz WLAN	0.121	
NSA + 5.6GWLAN	Head	NSA	0.164	0.261
		5.6GHz WLAN	0.097	
	Body	NSA	0.965	1.086
		5.6GHz WLAN	0.121	
GSM + 5.8GWLAN	Head	GSM	0.075	0.185
		5.8GHz WLAN	0.110	
	Body	GSM	0.800	0.921
		5.8GHz WLAN	0.121	
WCDMA + 5.8GWLAN	Head	WCDMA	0.150	0.260
		5.8GHz WLAN	0.110	
	Body	WCDMA	0.601	0.722
		5.8GHz WLAN	0.121	
LTE + 5.8GWLAN	Head	LTE	0.122	0.232
		5.8GHz WLAN	0.110	
	Body	LTE	0.565	0.686
		5.8GHz WLAN	0.121	



SA + 5.8GWLAN	Head	SA	0.396	0.506
		5.8GHz WLAN	0.110	
	Body	SA	0.400	0.521
		5.8GHz WLAN	0.121	
NSA + 5.8GWLAN	Head	NSA	0.164	0.274
		5.8GHz WLAN	0.110	
	Body	NSA	0.965	1.086
		5.8GHz WLAN	0.121	

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.



12. 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
2000MHz Dipole	MVG	DIP2G000	SN 06/22 DIP2G100-642	2022.02.11	2025.02.10
2300MHz Dipole	MVG	DIP2G300	SN 06/22 DIP2G100-644	2022.02.11	2025.02.10
2450MHz Dipole	MVG	DIP2G450	SN 06/22 DIP2G450-645	2022.02.11	2025.02.10
2600MHz Dipole	MVG	DIP2G600	SN 06/22 DIP2G600-646	2022.02.11	2025.02.10
3500MHz Dipole	MVG	DIP3G500	SN 06/22 DIP3G500-647	2022.02.11	2025.02.10
3700MHz Dipole	MVG	DIP3G700	SN 06/22 DIP3G700-648	2022.02.11	2025.02.10
5000MHz Dipole	MVG	DIP5G000	SN 06/22 DIP5G000-653	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-HC	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 Plot

System Performance Check Data (750MHz)

Type: Phone measurement (Complete)

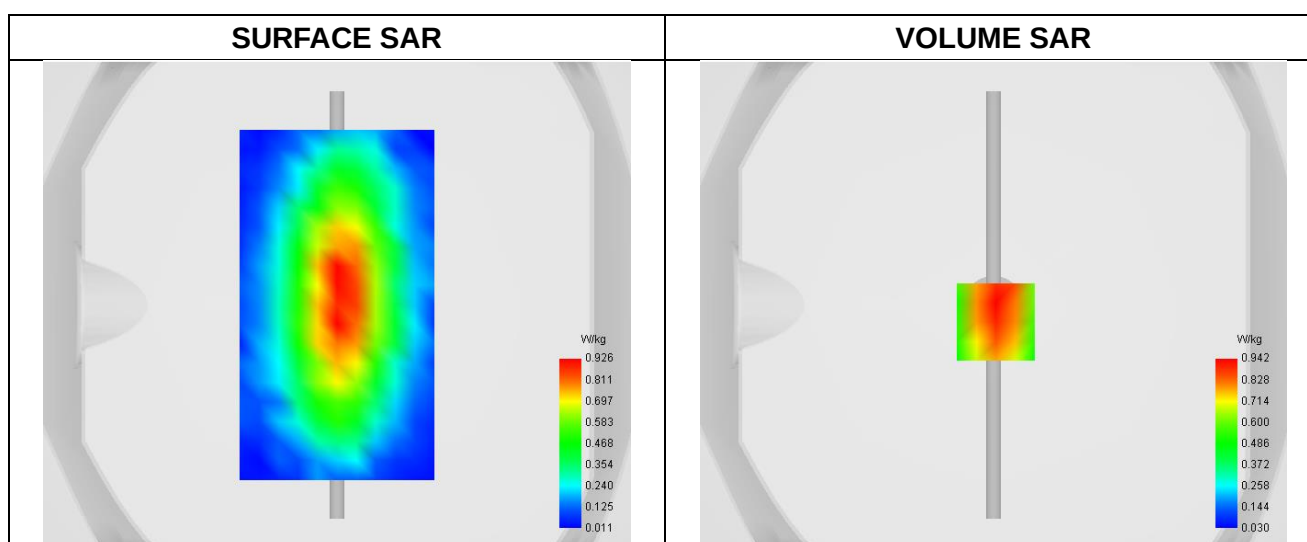
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2024-09-07

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW750
Channels	Middle
Signal	CW
Frequency (MHz)	750.000
Relative permittivity	42.80
Conductivity (S/m)	0.85
Probe	SN 04/22 EPGO364
ConvF	1.68
Crest factor:	1:1

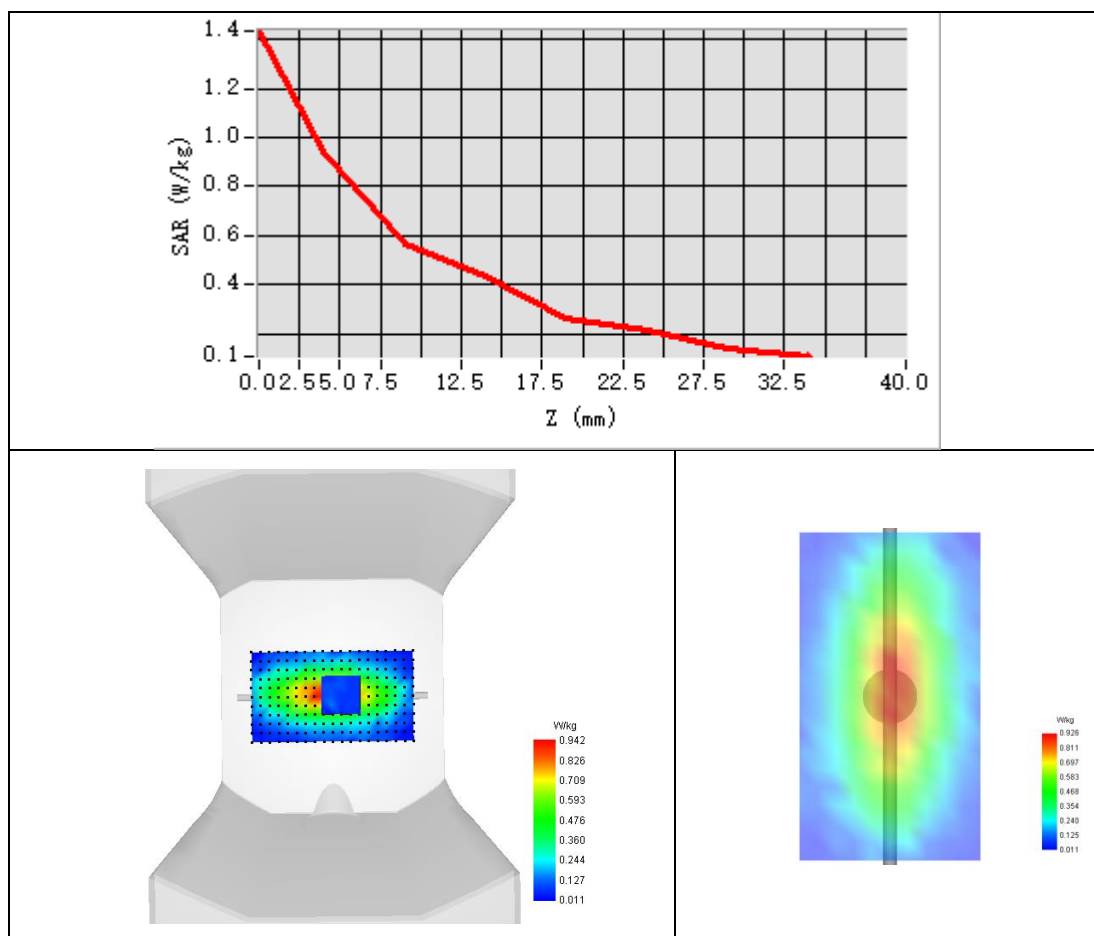


Maximum location: X=1.00, Y=-7.00 ; SAR Peak: 1.41 W/kg

SAR 10g (W/Kg)	0.517
SAR 1g (W/Kg)	0.816



Z Axis Scan





System Performance Check Data (835MHz)

Type: Phone measurement (Complete)

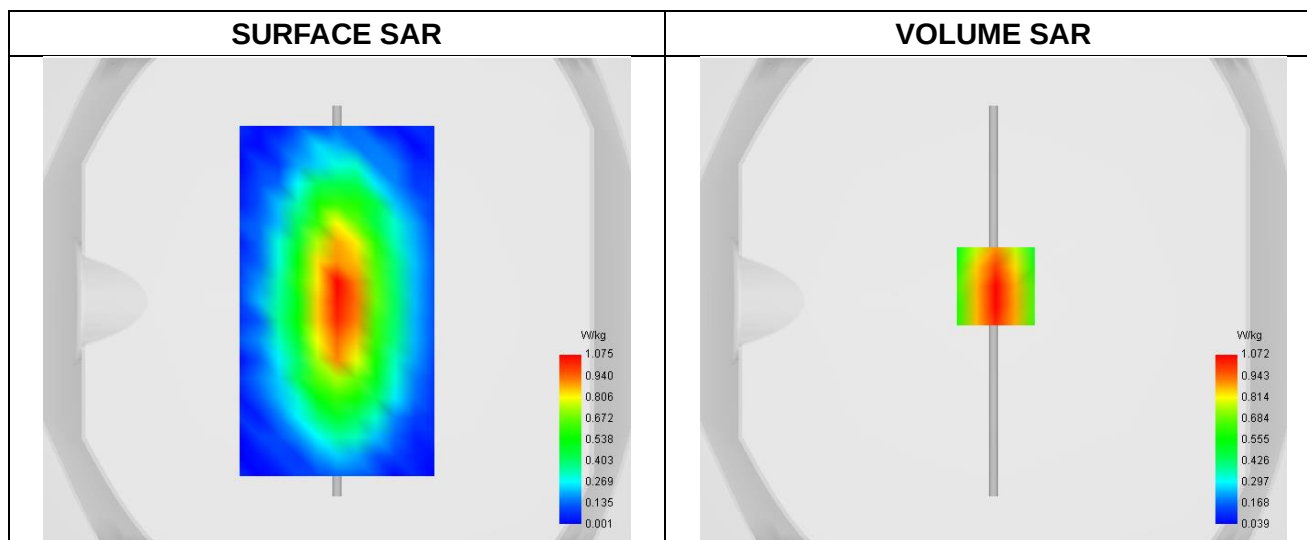
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2024-09-02

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW835
Channels	Middle
Signal	CW
Frequency (MHz)	835.000
Relative permittivity	41.23
Conductivity (S/m)	0.91
Probe	SN 04/22 EPGO364
ConvF	1.70
Crest factor:	1:1

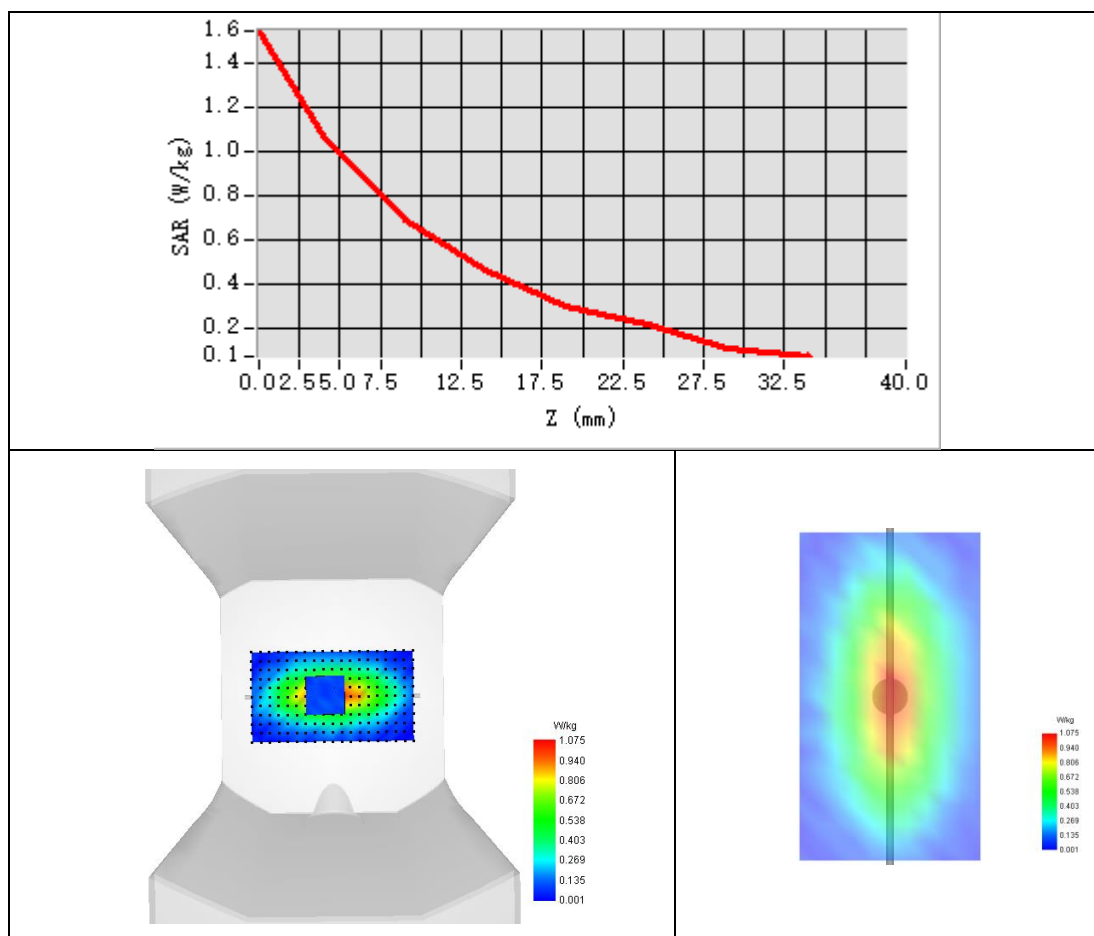


Maximum location: X=1.00, Y=6.00 ; SAR Peak: 1.57 W/kg

SAR 10g (W/Kg)	0.627
SAR 1g (W/Kg)	0.967



Z Axis Scan





System Performance Check Data (1800MHz)

Type: Phone measurement (Complete)

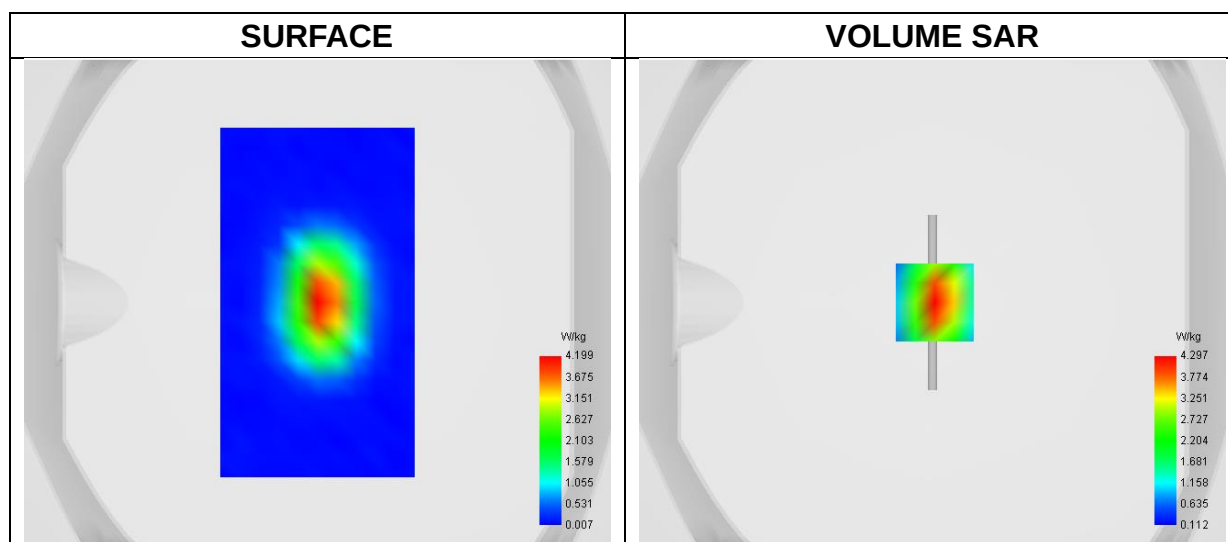
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2024-09-07

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW1800
Channels	Middle
Signal	CW
Frequency (MHz)	1800.000
Relative permittivity	41.28
Conductivity (S/m)	1.39
Probe	SN 04/22 EPG0364
ConvF	1.91
Crest factor:	1:1

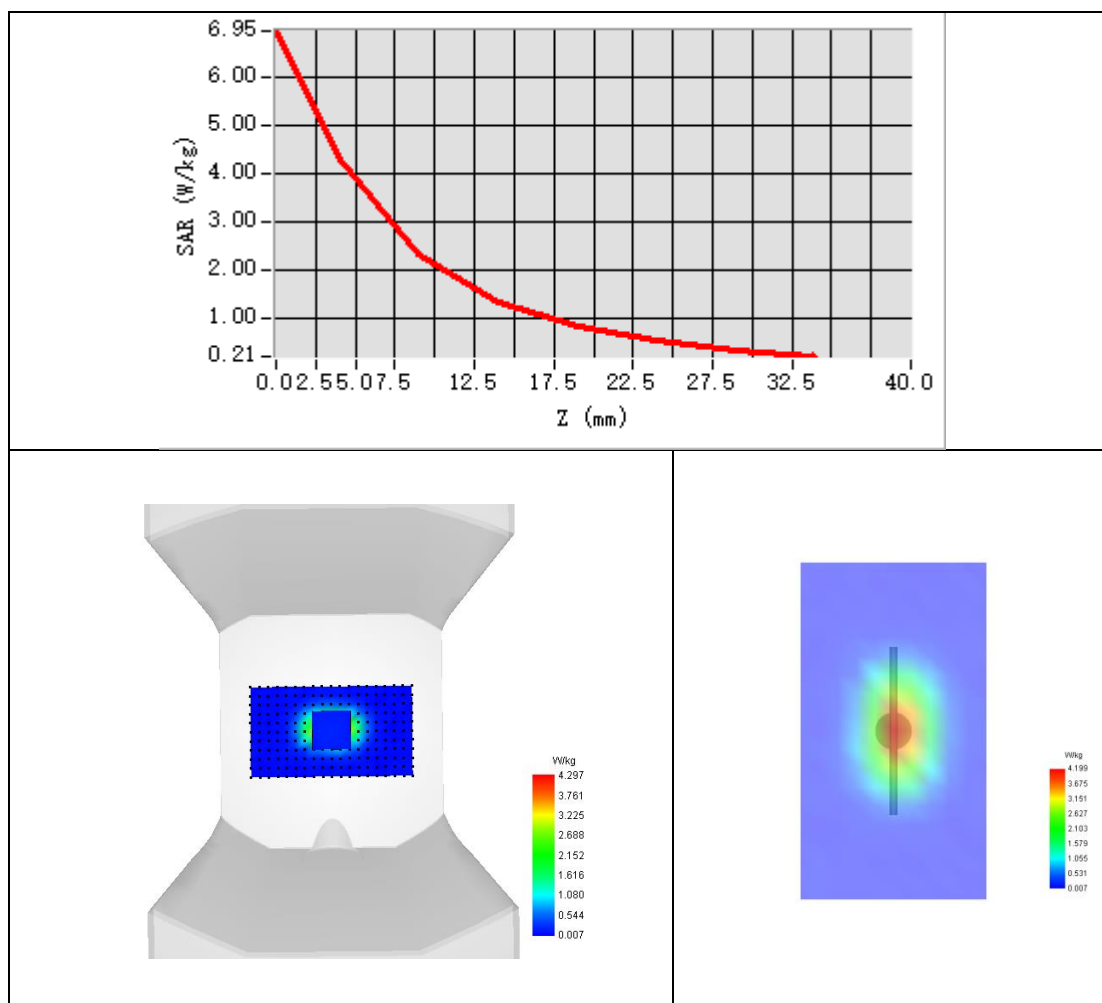


Maximum location: X=1.00, Y=0.00 ; SAR Peak: 6.94 W/kg

SAR 10g (W/Kg)	2.037
SAR 1g (W/Kg)	3.937



Z Axis Scan





System Performance Check Data (1900MHz)

Type: Phone measurement (Complete)

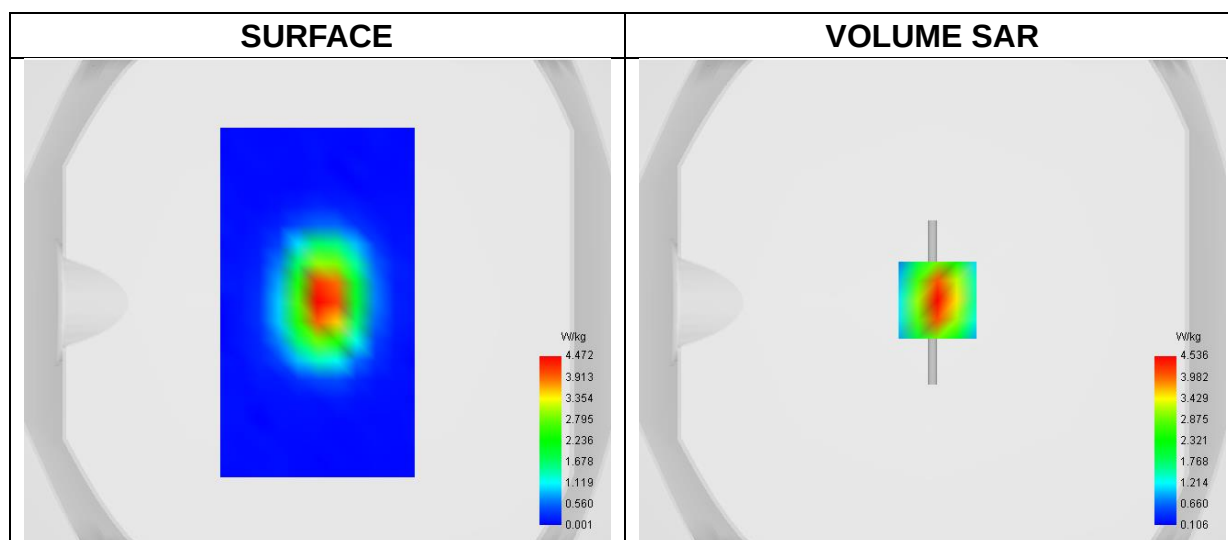
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2024-09-08

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW1900
Channels	Middle
Signal	CW
Frequency (MHz)	1900.000
Relative permittivity	41.41
Conductivity (S/m)	1.42
Probe	SN 04/22 EPG0364
ConvF	2.24
Crest factor:	1:1

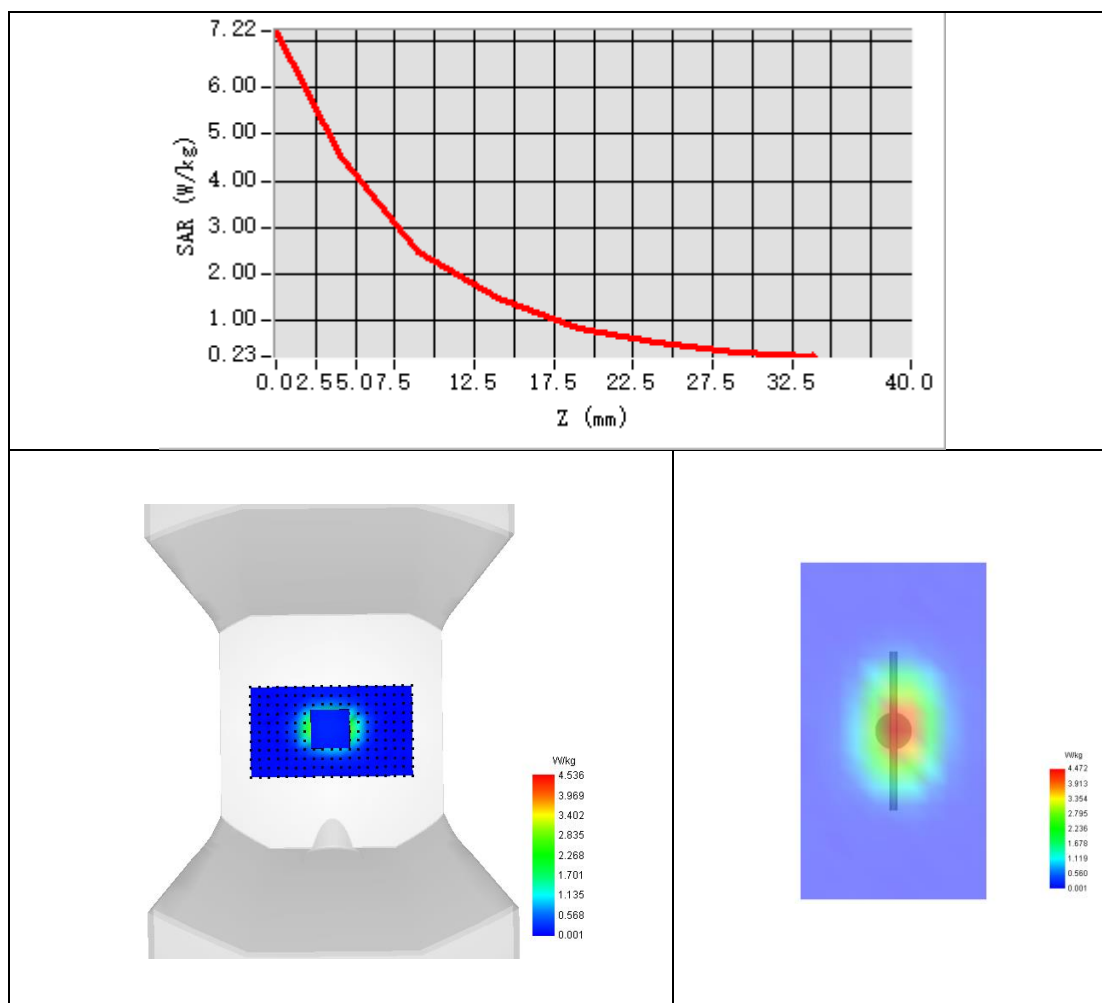


Maximum location: X=2.00, Y=1.00 ; SAR Peak: 7.16 W/kg

SAR 10g (W/Kg)	2.104
SAR 1g (W/Kg)	4.084



Z Axis Scan





System Performance Check Data (2000MHz)

Type: Phone measurement (Complete)

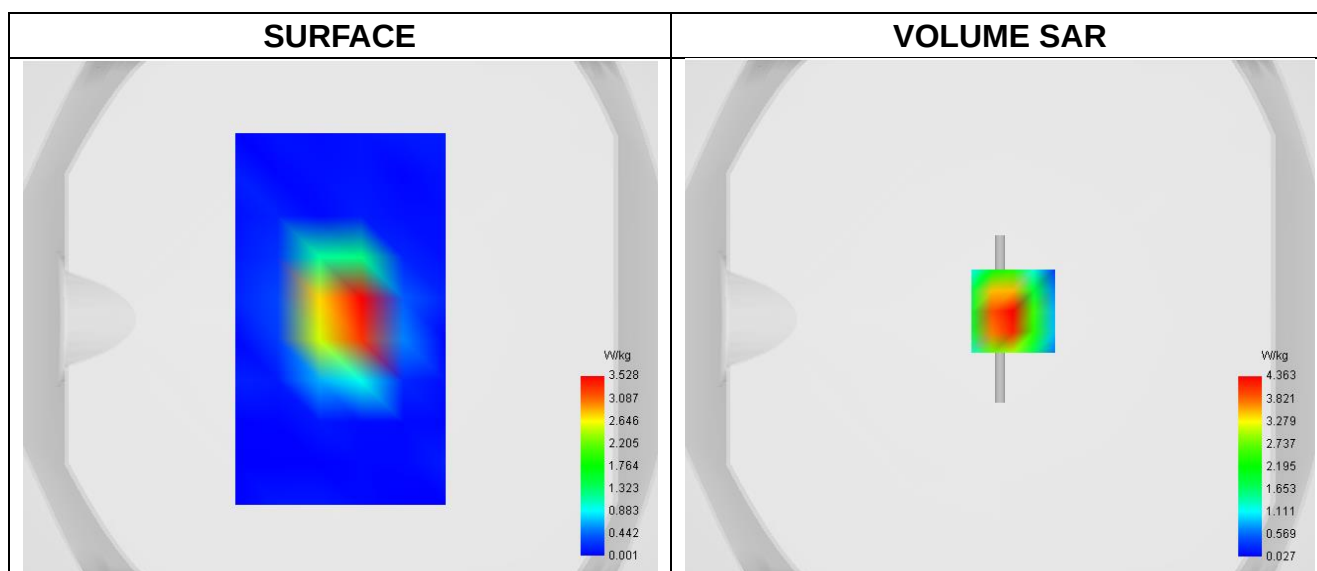
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2024-09-09

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW2000
Channels	Middle
Signal	CW
Frequency (MHz)	2000.000
Relative permittivity	40.20
Conductivity (S/m)	1.41
Probe	SN 04/22 EPGO364
ConvF	2.35
Crest factor:	1:1

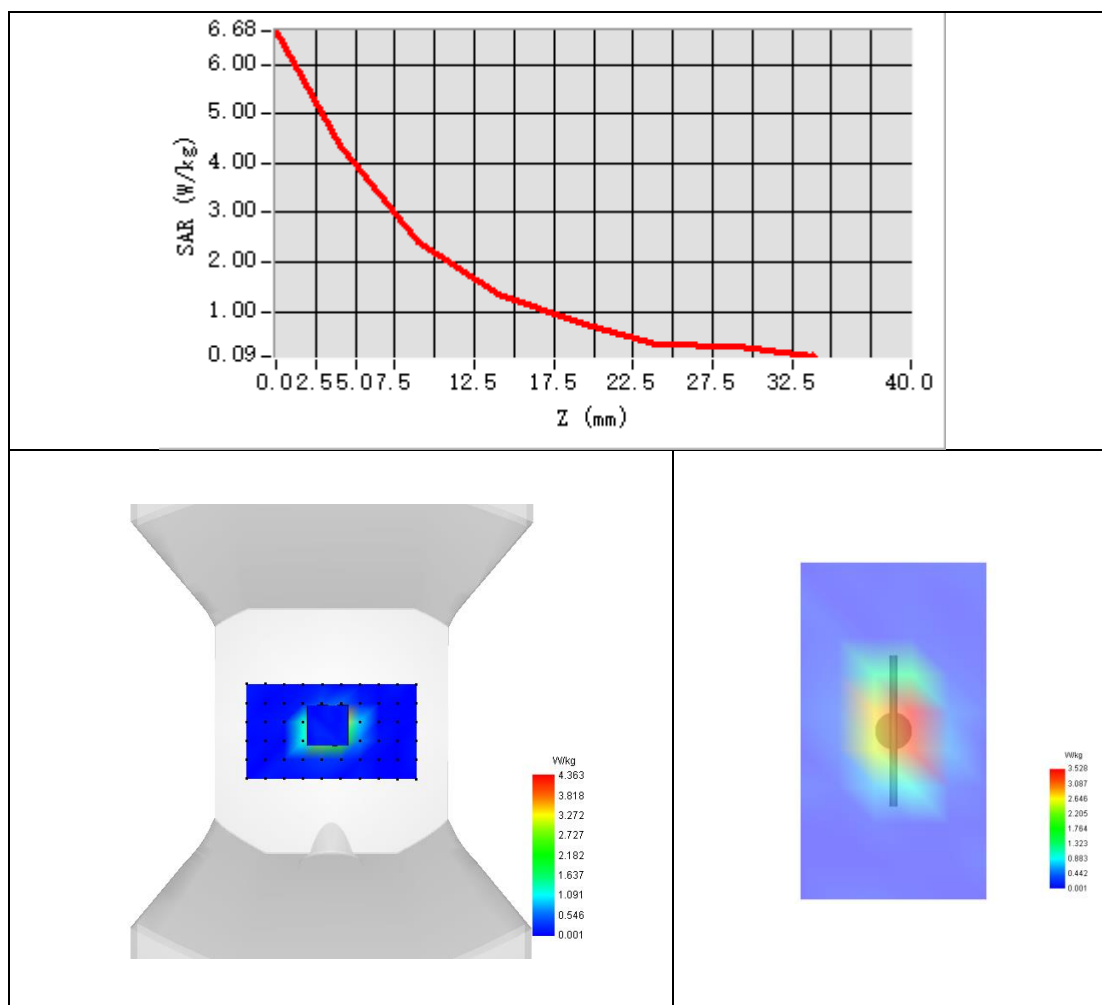


Maximum location: X=5.00, Y=3.00 ; SAR Peak: 7.24 W/kg

SAR 10g (W/Kg)	2.062
SAR 1g (W/Kg)	4.298



Z Axis Scan





System Performance Check Data (2300MHz)

Type: Phone measurement (Complete)

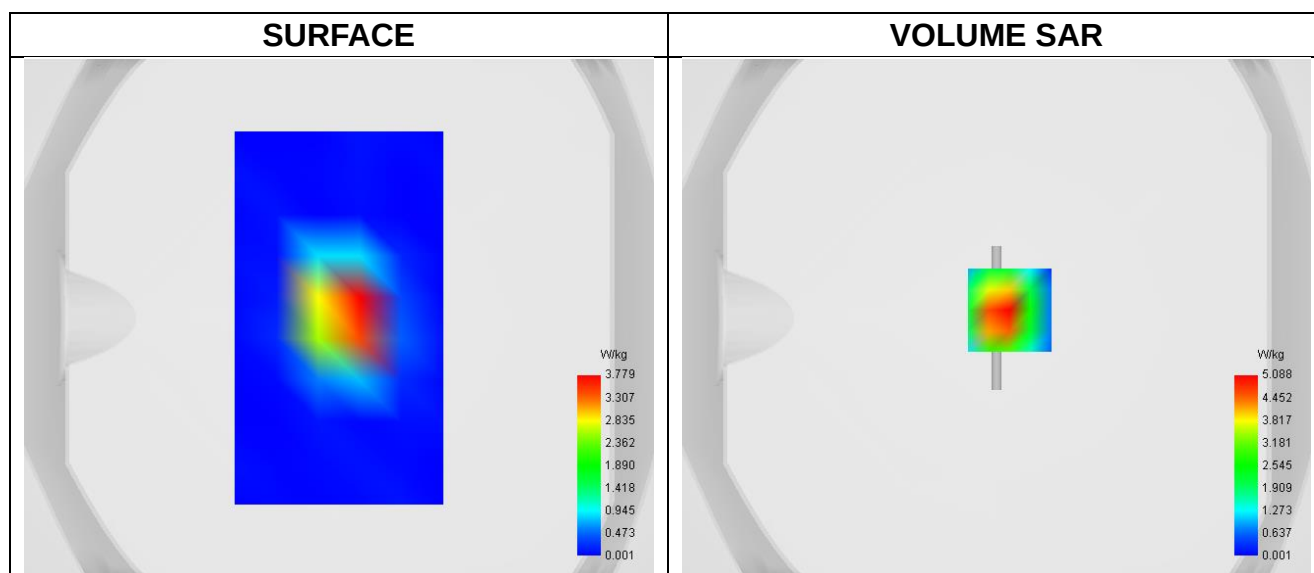
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement:2024-09-10

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW2300
Channels	Middle
Signal	CW
Frequency (MHz)	2300.000
Relative permittivity	39.92
Conductivity (S/m)	1.68
Probe	SN 04/22 EPGO364
ConvF	2.31
Crest factor:	1:1

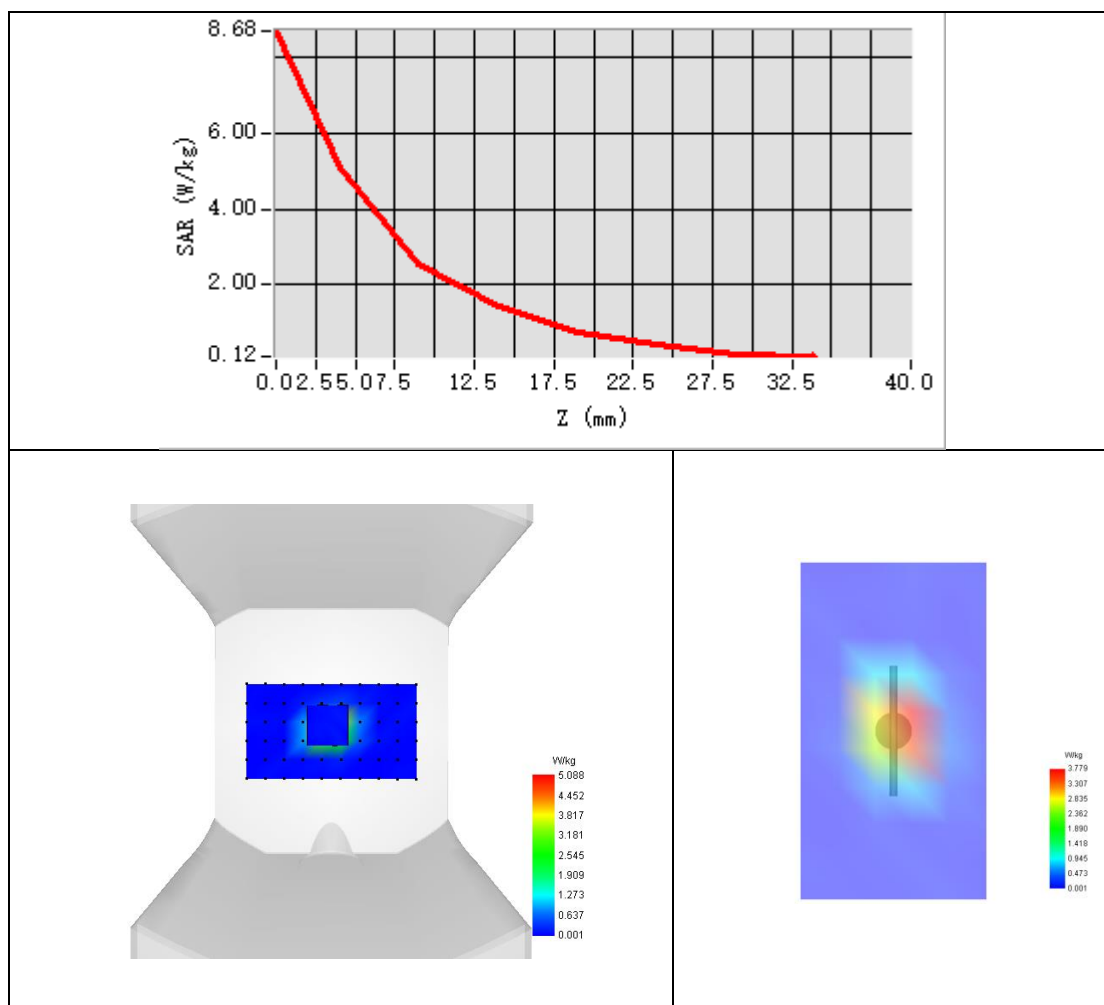


Maximum location: X=5.00, Y=3.00 ; SAR Peak: 8.85 W/kg

SAR 10g (W/Kg)	2.353
SAR 1g (W/Kg)	5.098



Z Axis Scan





System Performance Check Data (2450MHz)

Type: Phone measurement (Complete)

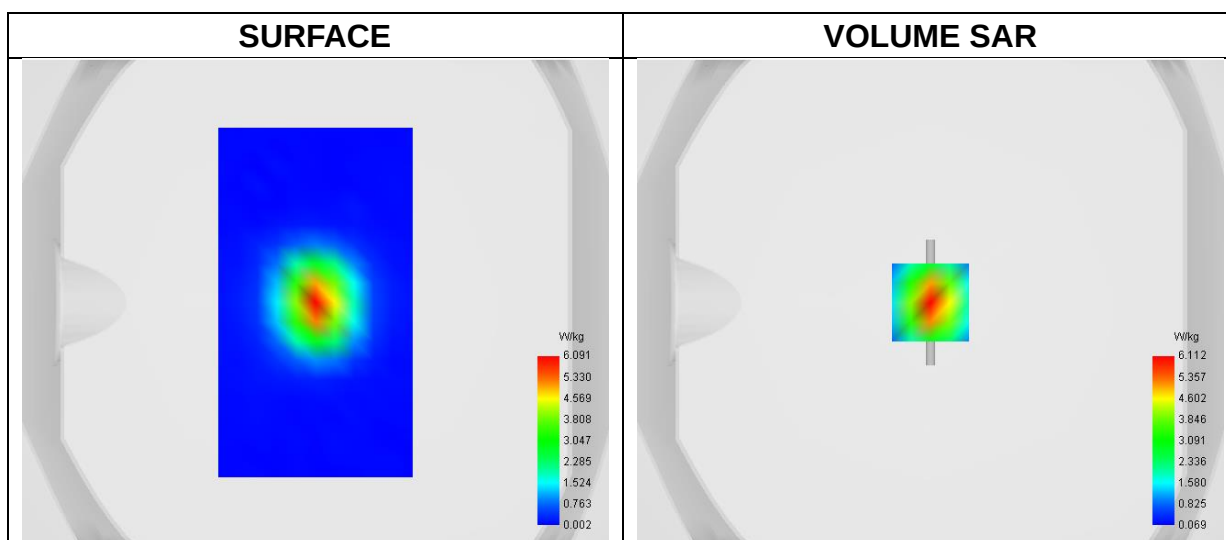
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2024-09-09

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW2450
Channels	Middle
Signal	CW
Frequency (MHz)	2450.000
Relative permittivity	39.50
Conductivity (S/m)	1.78
Probe	SN 04/22 EPG0364
ConvF	2.30
Crest factor:	1:1

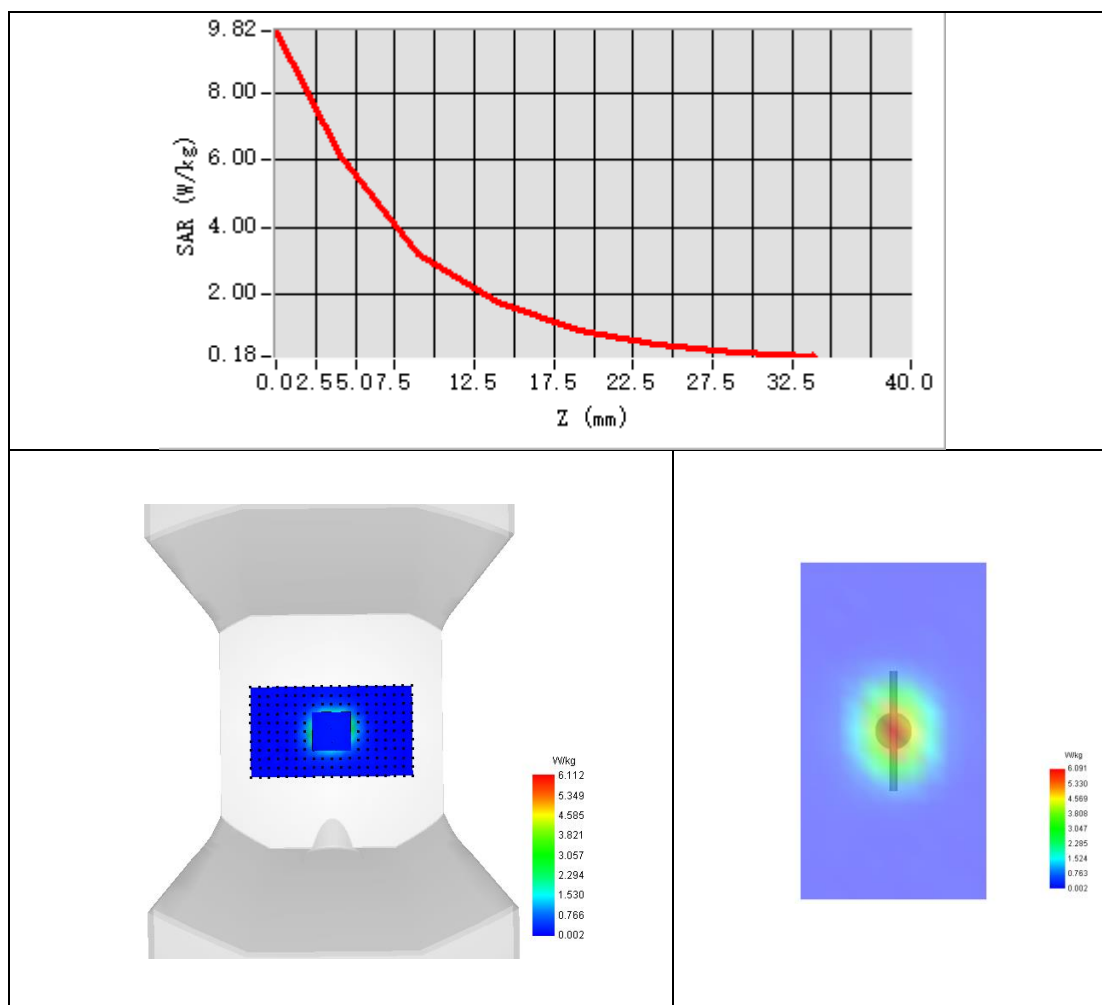


Maximum location: X=0.00, Y=0.00 ; SAR Peak: 9.77 W/kg

SAR 10g (W/Kg)	2.350
SAR 1g (W/Kg)	5.412



Z Axis Scan





System Performance Check Data (2600MHz)

Type: Phone measurement (Complete)

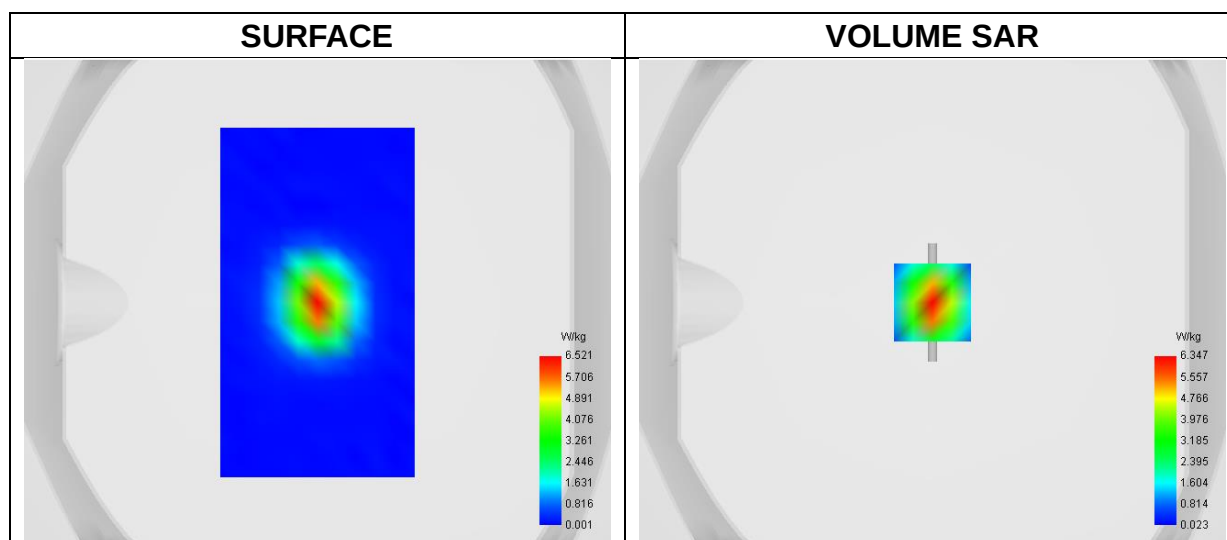
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2024-09-03

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW2600
Channels	Middle
Signal	CW
Frequency (MHz)	2600.000
Relative permittivity	40.15
Conductivity (S/m)	2.03
Probe	SN 04/22 EPGO364
ConvF	2.35
Crest factor:	1:1

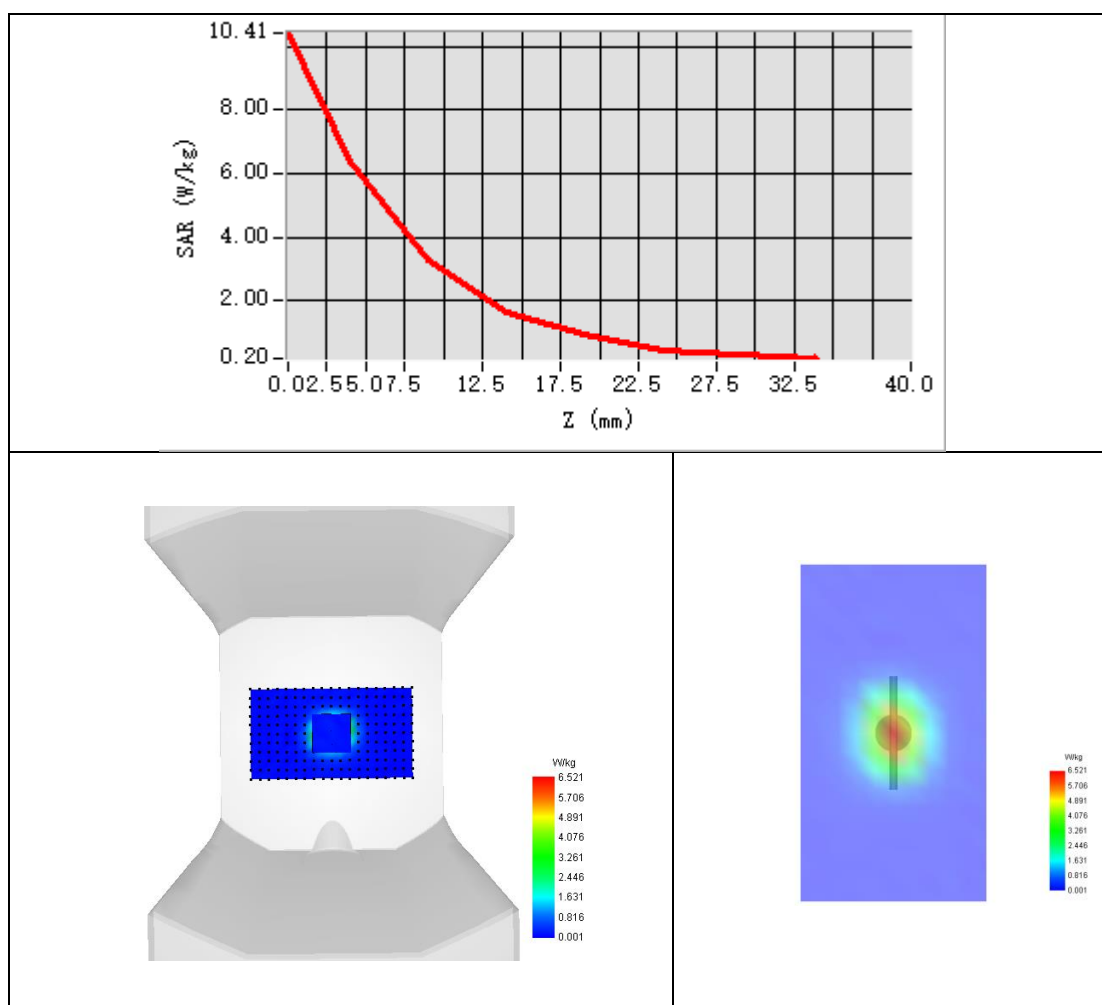


Maximum location: X=0.00, Y=0.00 ; SAR Peak: 10.35 W/kg

SAR 10g (W/Kg)	2.439
SAR 1g (W/Kg)	5.655



Z Axis Scan





System Performance Check Data (3500MHz)

Type: Phone measurement (Complete)

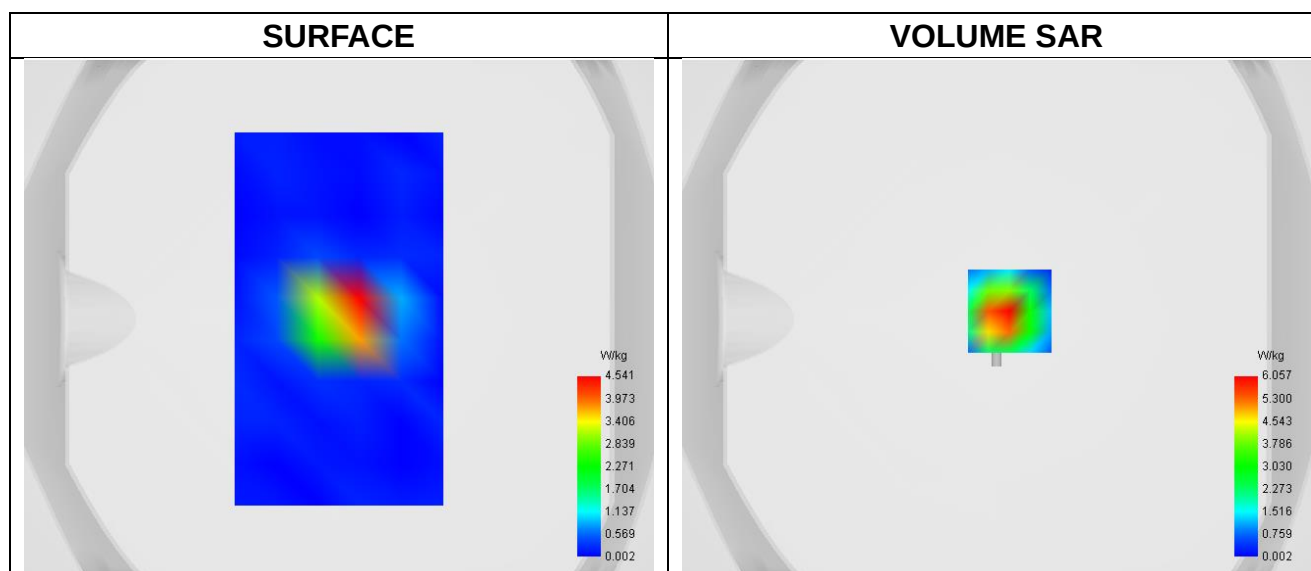
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2024-09-08

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW3500
Channels	Middle
Signal	CW
Frequency (MHz)	3500.000
Relative permittivity	38.07
Conductivity (S/m)	2.95
Probe	SN 04/22 EPG0364
ConvF	1.83
Crest factor:	1:1

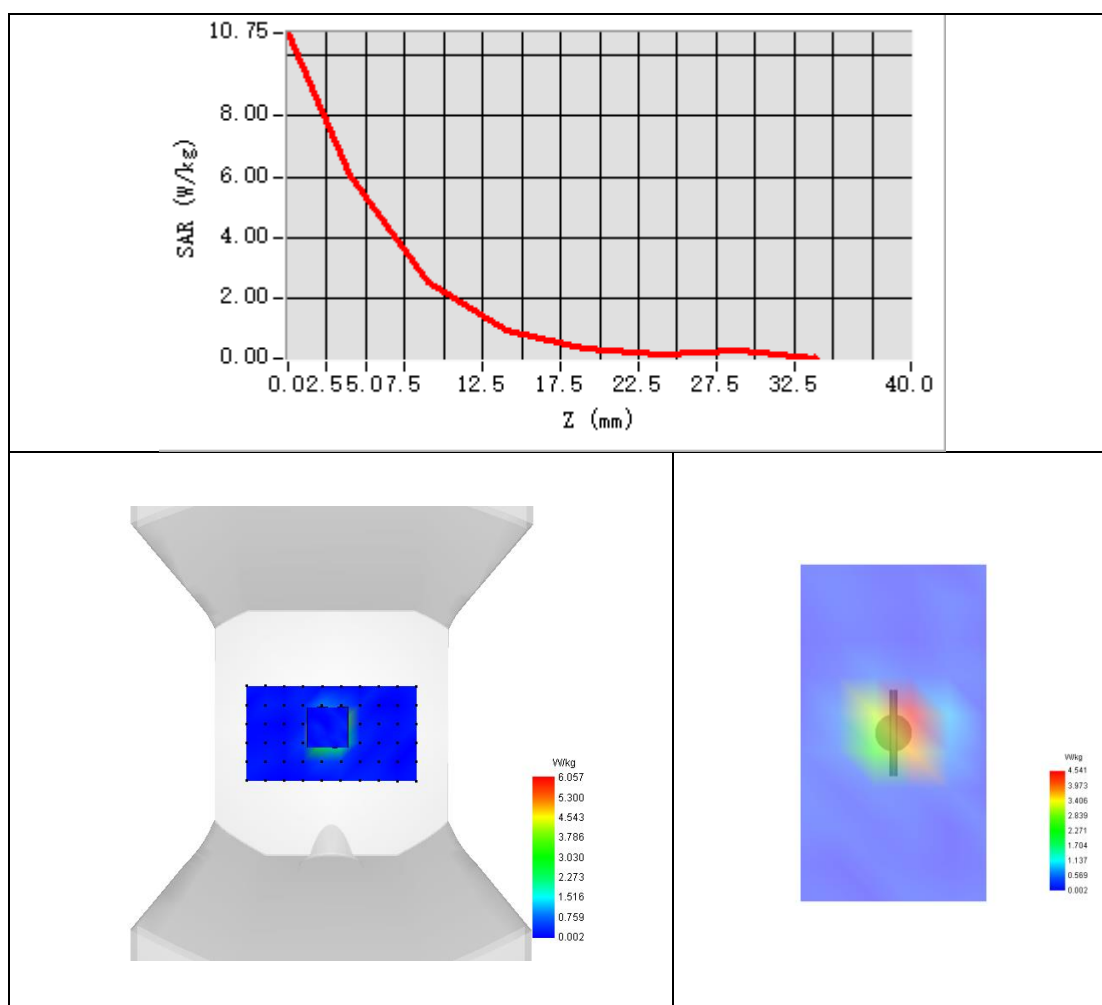


Maximum location: X=5.00, Y=3.00 ; SAR Peak: 11.26 W/kg

SAR 10g (W/Kg)	2.521
SAR 1g (W/Kg)	6.892



Z Axis Scan





System Performance Check Data (3700MHz)

Type: Phone measurement (Complete)

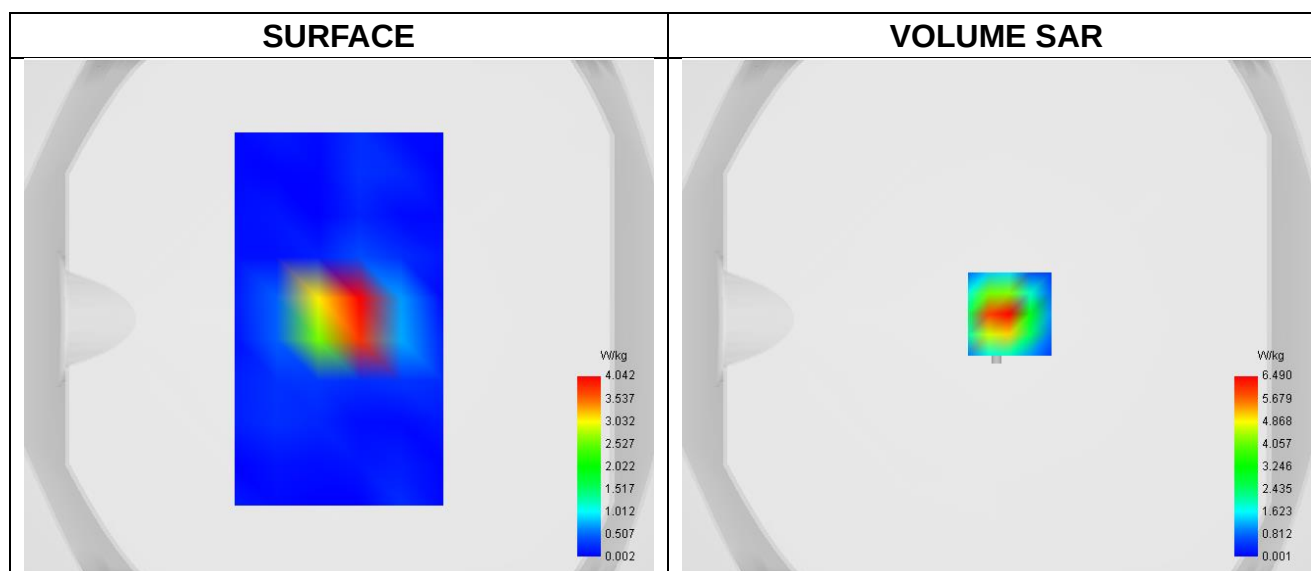
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2024-09-10

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW3700
Channels	Middle
Signal	CW
Frequency (MHz)	3700.000
Relative permittivity	38.38
Conductivity (S/m)	3.21
Probe	SN 04/22 EPGO364
ConvF	1.84
Crest factor:	1:1

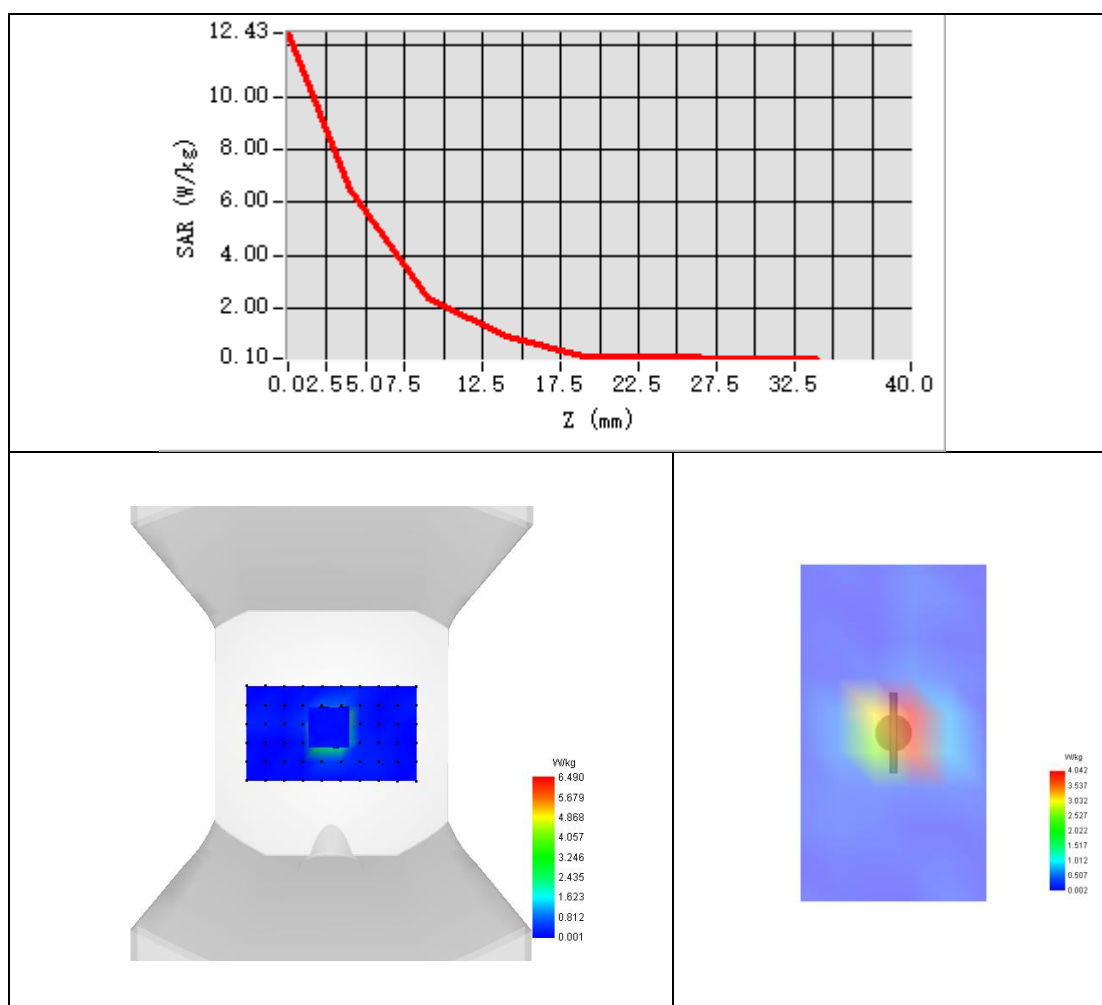


Maximum location: X=5.00, Y=2.00 ; SAR Peak: 13.11 W/kg

SAR 10g (W/Kg)	2.516
SAR 1g (W/Kg)	6.976



Z Axis Scan





System Performance Check Data (5200MHz)

Type: Phone measurement (Complete)

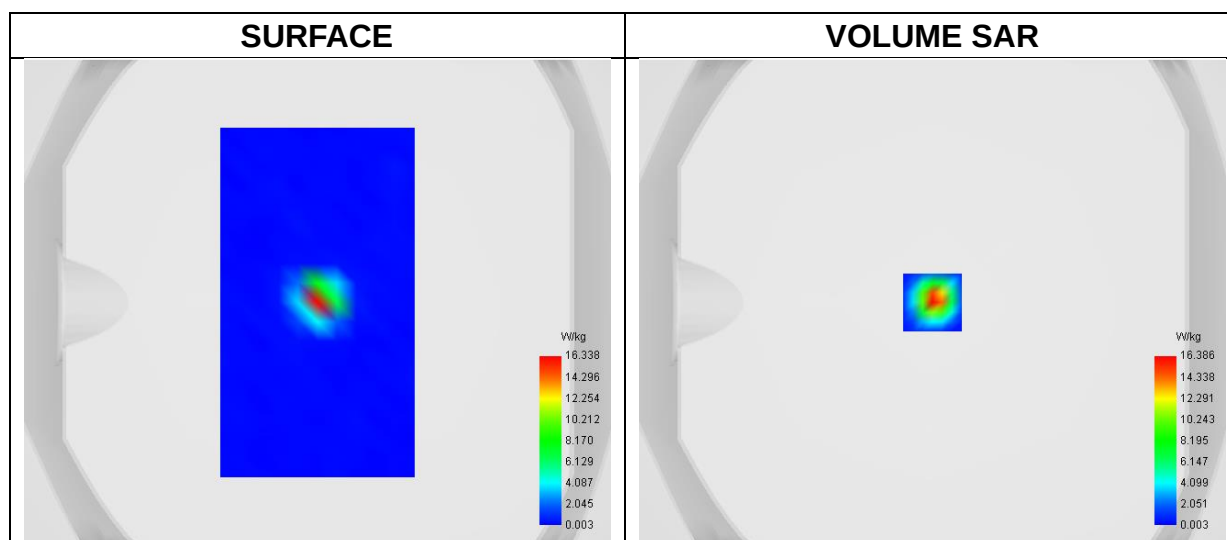
Area scan resolution: dx=4mm, dy=4mm

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

Date of measurement: 2024-09-11

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW5200
Channels	Middle
Signal	CW
Frequency (MHz)	5200.000
Relative permittivity	36.94
Conductivity (S/m)	4.64
Probe	SN 04/22 EPGO364
ConvF	1.98
Crest factor:	1:1

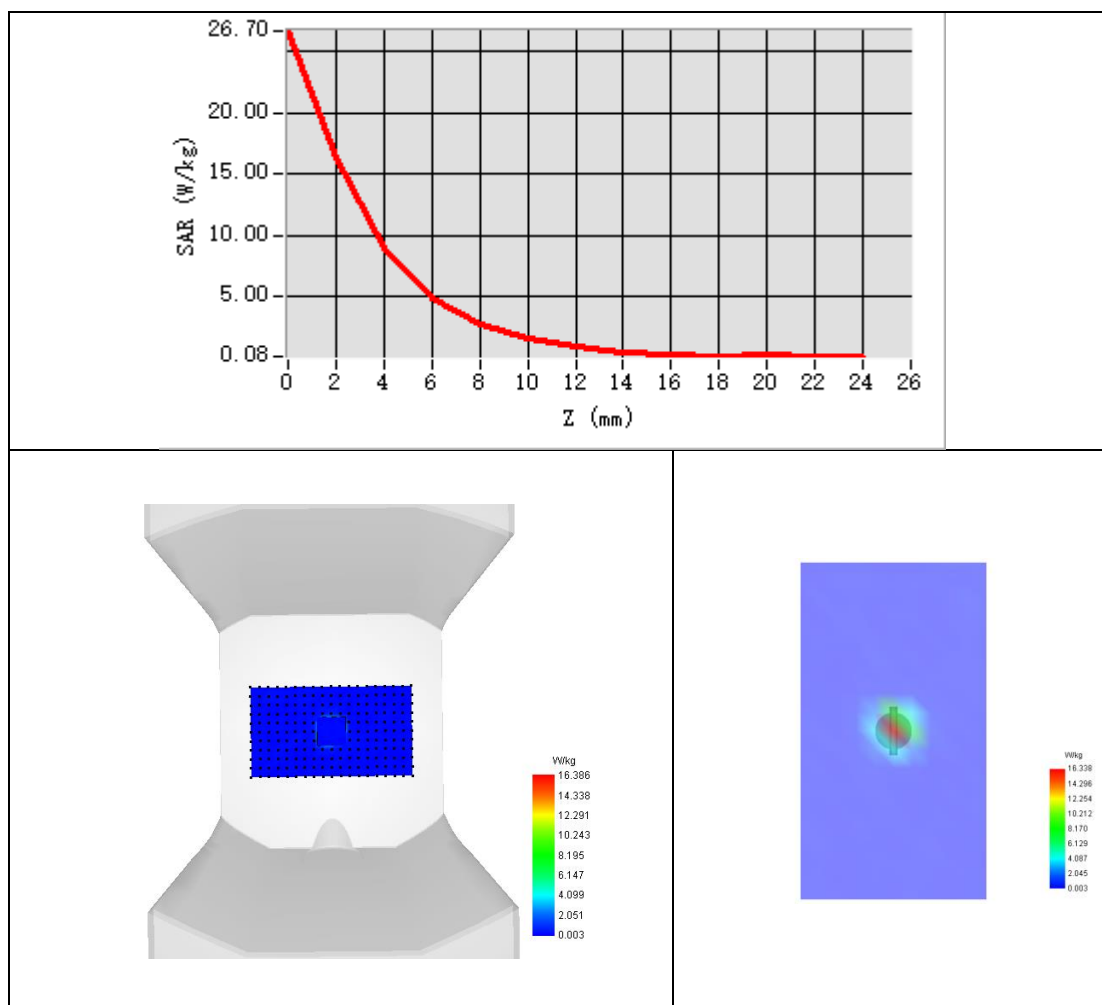


Maximum location: X=0.00, Y=0.00 ; SAR Peak: 29.30 W/kg

SAR 10g (W/Kg)	2.341
SAR 1g (W/Kg)	8.111



Z Axis Scan





System Performance Check Data (5400MHz)

Type: Phone measurement (Complete)

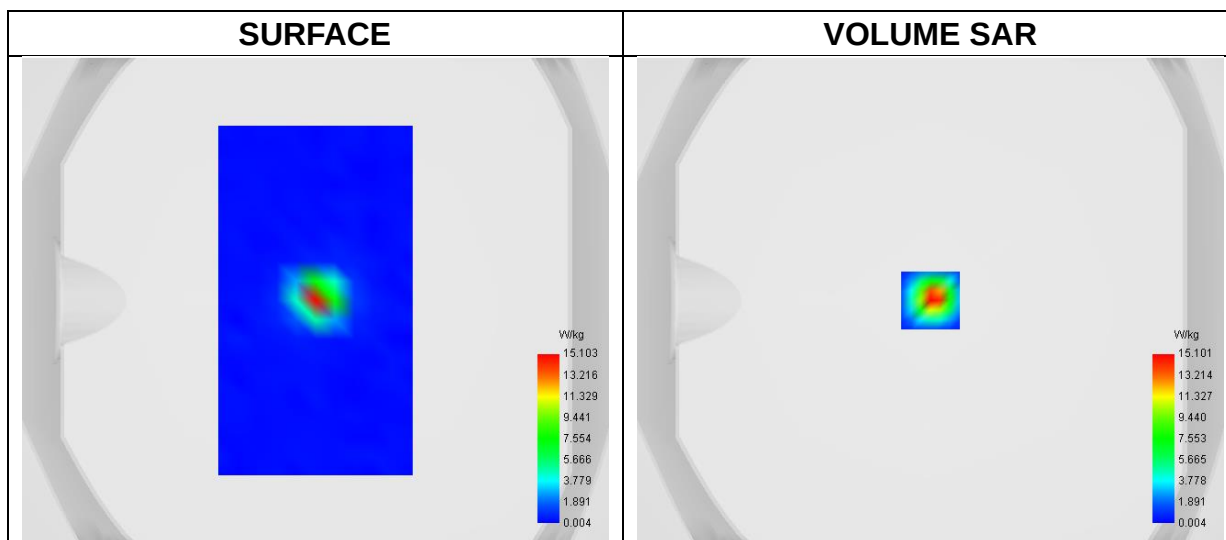
Area scan resolution: dx=4mm, dy=4mm

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

Date of measurement: 2024-09-12

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW5400
Channels	Middle
Signal	CW
Frequency (MHz)	5400.000
Relative permittivity	36.10
Conductivity (S/m)	4.85
Probe	SN 04/22 EPG0364
ConvF	1.83
Crest factor:	1:1

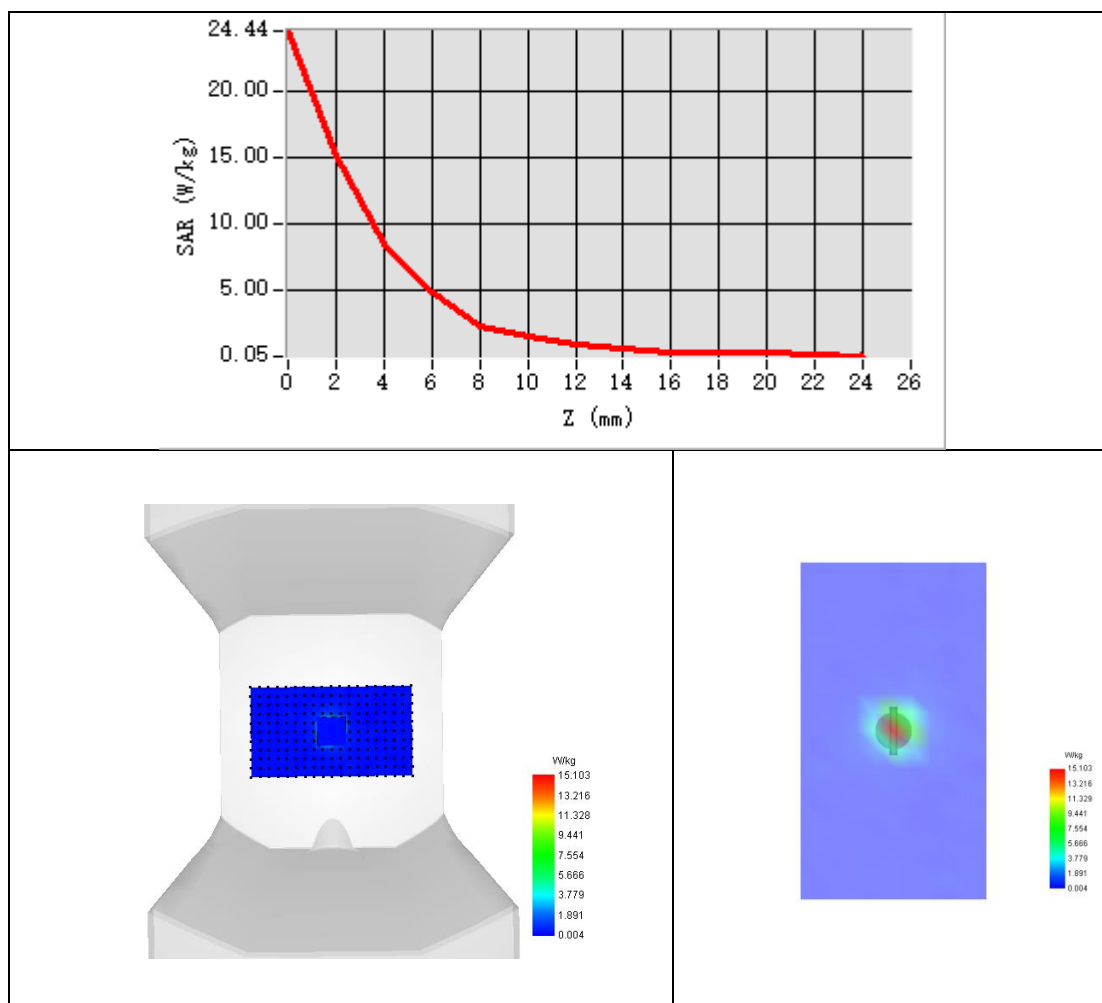


Maximum location: X=0.00, Y=0.00 ; SAR Peak: 26.11 W/kg

SAR 10g (W/Kg)	2.413
SAR 1g (W/Kg)	8.465



Z Axis Scan





System Performance Check Data (5600MHz)

Type: Phone measurement (Complete)

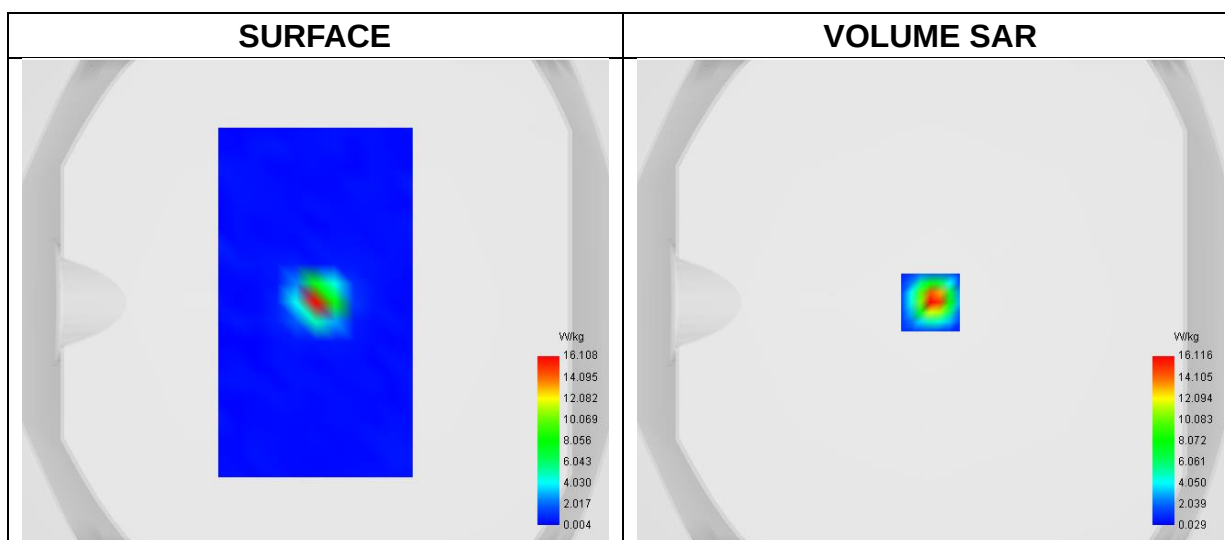
Area scan resolution: dx=4mm, dy=4mm

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

Date of measurement: 2024-09-13

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW5600
Channels	Middle
Signal	CW
Frequency (MHz)	5600.000
Relative permittivity	36.34
Conductivity (S/m)	5.04
Probe	SN 04/22 EPGO364
ConvF	1.86
Crest factor:	1:1

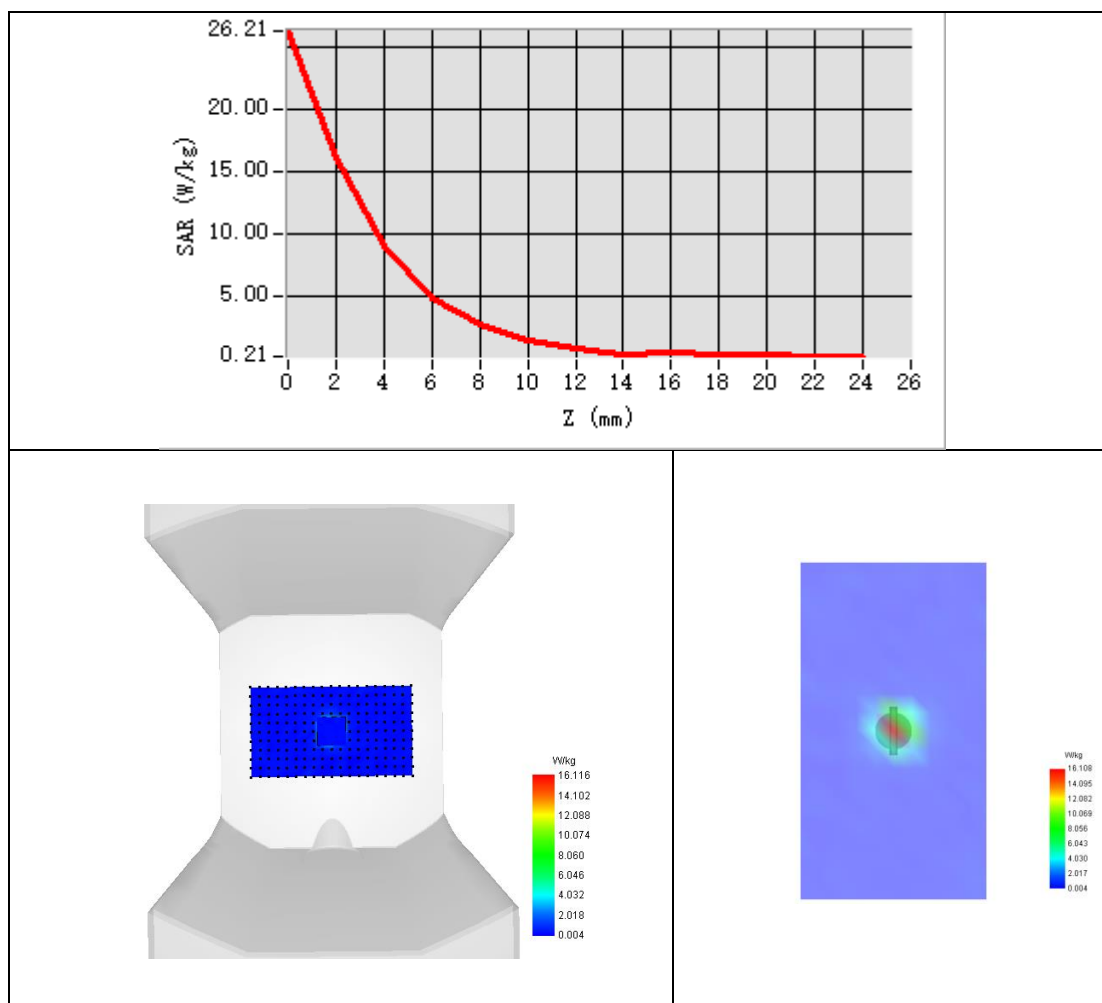


Maximum location: X=0.00, Y=0.00 ; SAR Peak: 27.99 W/kg

SAR 10g (W/Kg)	2.382
SAR 1g (W/Kg)	8.080



Z Axis Scan





System Performance Check Data (5800MHz)

Type: Phone measurement (Complete)

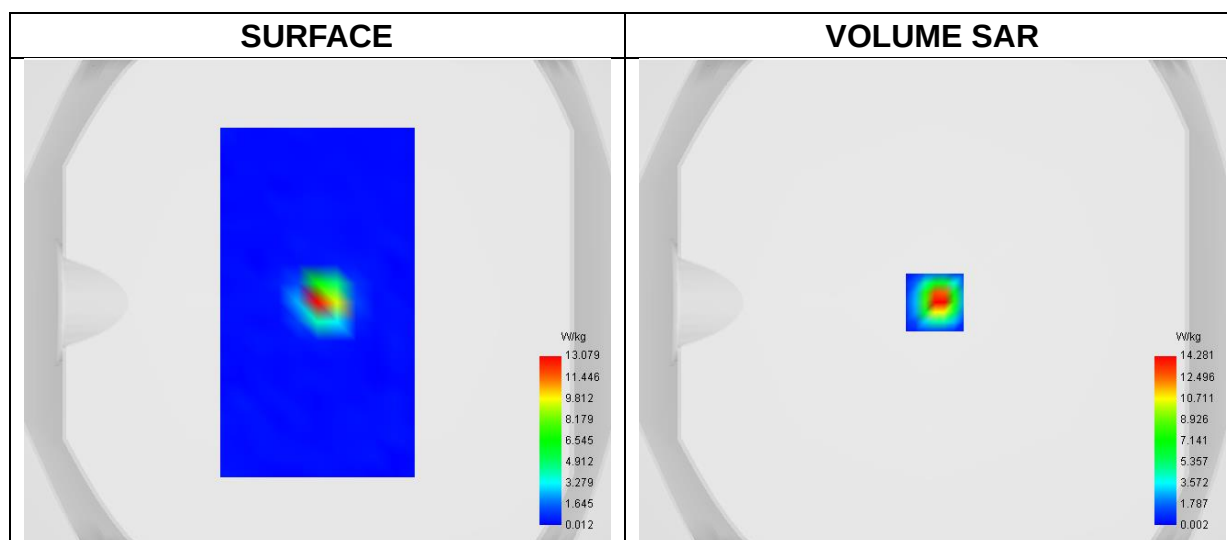
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2024-09-14

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW5800
Channels	Middle
Signal	CW
Frequency (MHz)	5800.000
Relative permittivity	35.81
Conductivity (S/m)	5.21
Probe	SN 04/22 EPG0364
ConvF	1.71
Crest factor:	1:1

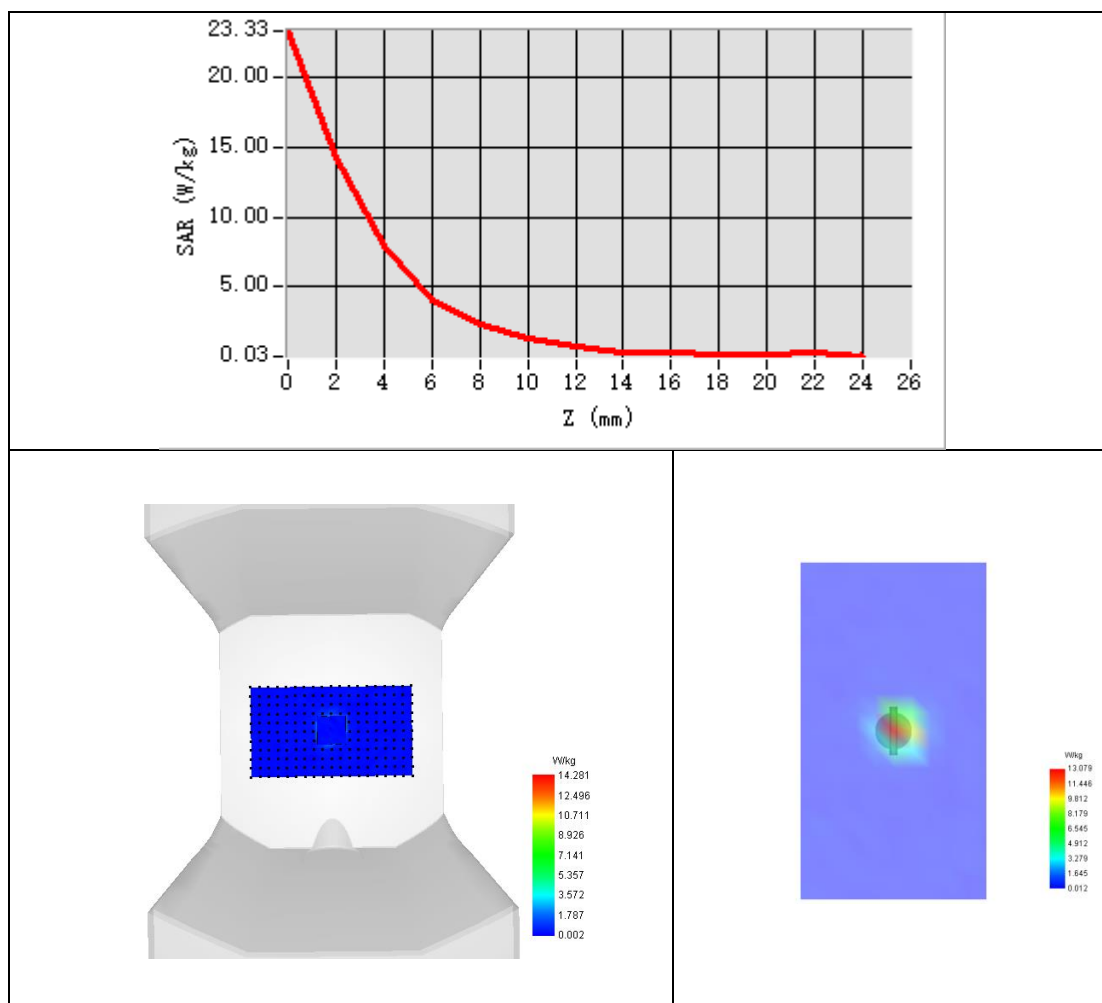


Maximum location: X=1.00, Y=0.00 ; SAR Peak: 26.56 W/kg

SAR 10g (W/Kg)	2.338
SAR 1g (W/Kg)	8.131



Z Axis Scan



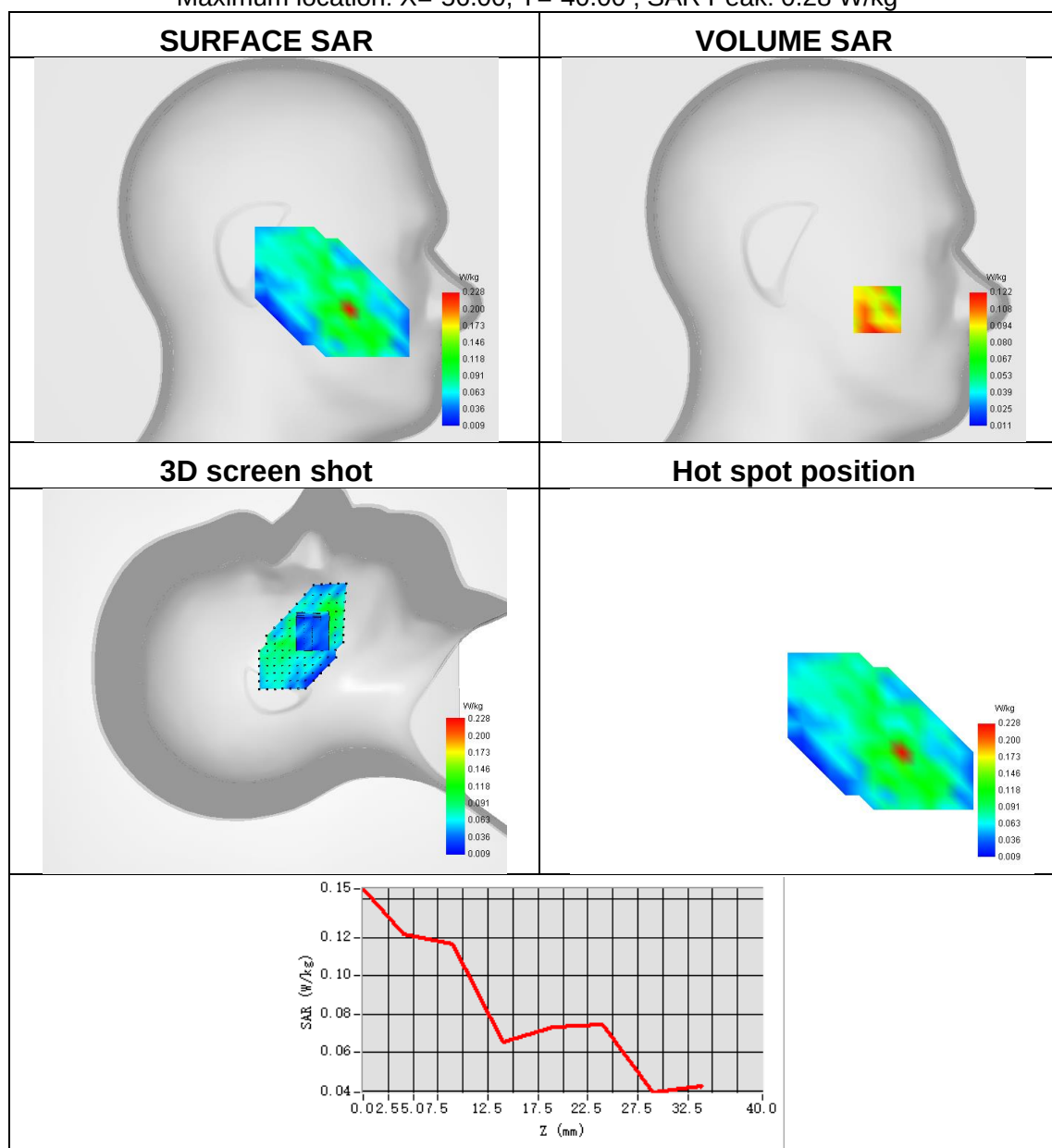


Appendix B. SAR Test Plots

Plot 1:

Test Date	2024-09-02
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	GSM900
Signal	TDMA (GSM)
Frequency	880.2
SAR 10g (W/Kg)	0.068
SAR 1g (W/Kg)	0.124

Maximum location: X=-56.00, Y=-40.00 ; SAR Peak: 0.28 W/kg

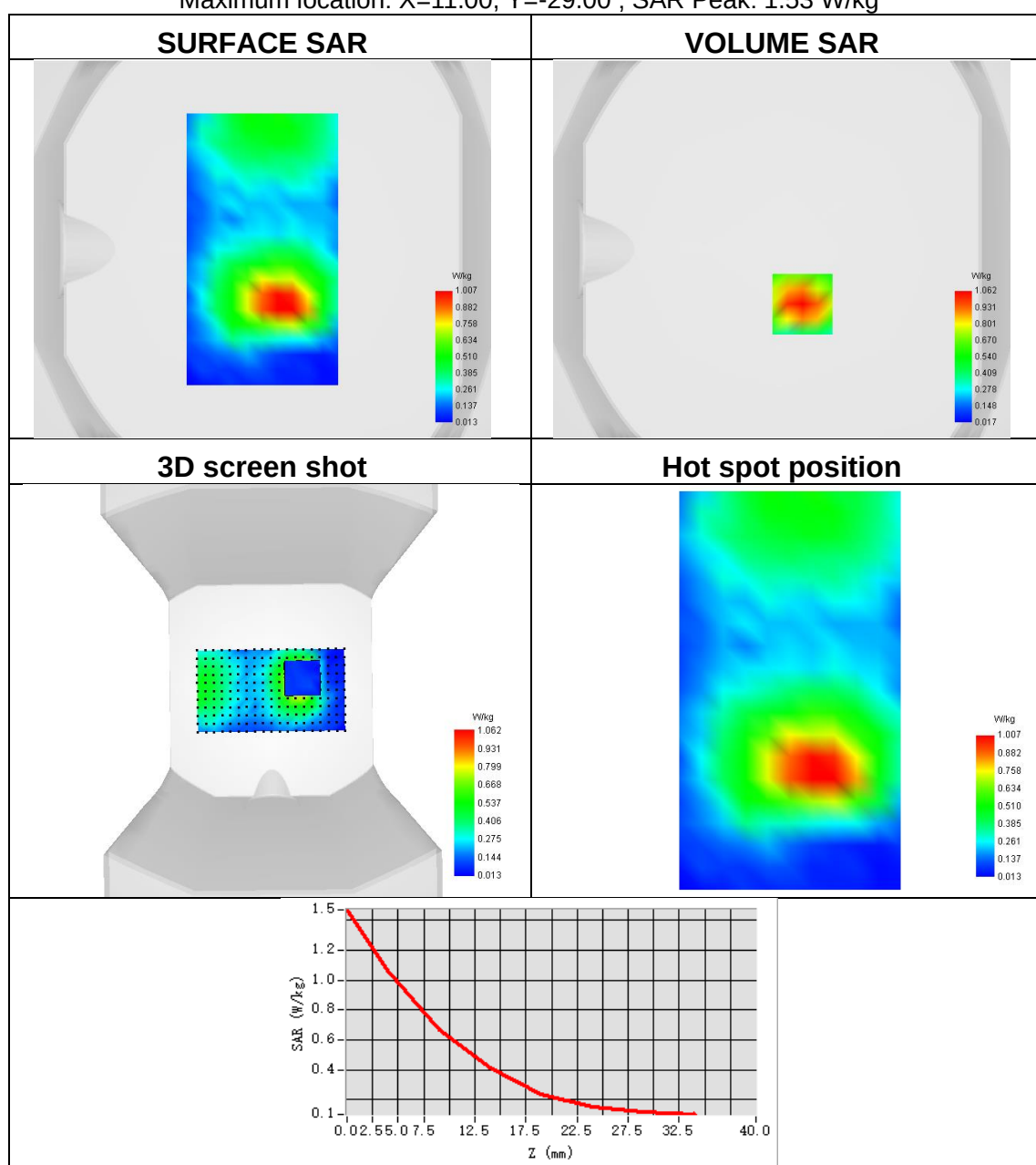




Plot 2:

Test Date	2024-09-02
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	GPRS900
Signal	TDMA (GPRS)
Frequency	880.2
SAR 10g (W/Kg)	0.571
SAR 1g (W/Kg)	1.001

Maximum location: X=11.00, Y=-29.00 ; SAR Peak: 1.53 W/kg

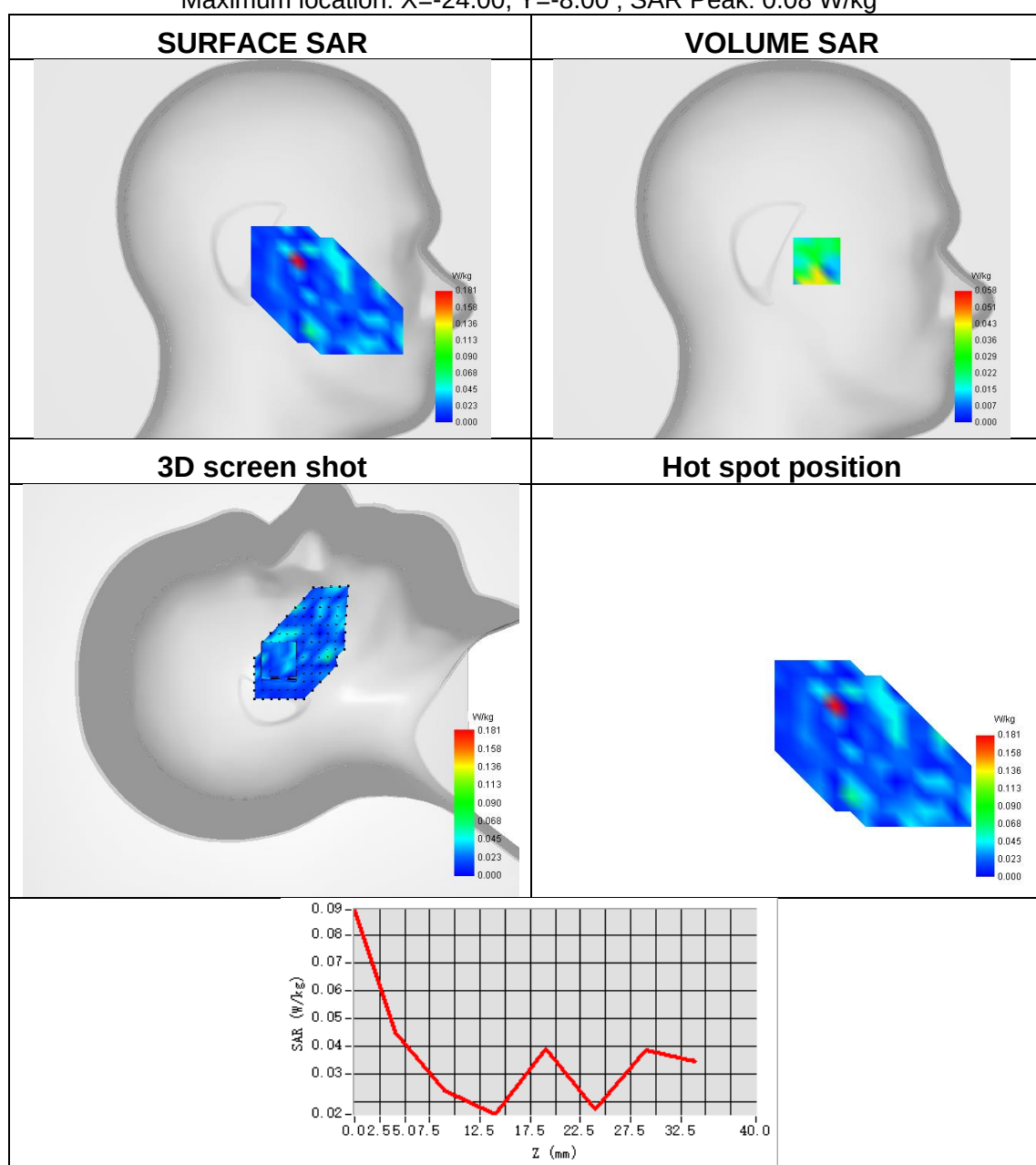




Plot 3:

Test Date	2024-09-07
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	GSM1800
Signal	TDMA (GSM)
Frequency	1784..8
SAR 10g (W/Kg)	0.020
SAR 1g (W/Kg)	0.037

Maximum location: X=-24.00, Y=-8.00 ; SAR Peak: 0.08 W/kg

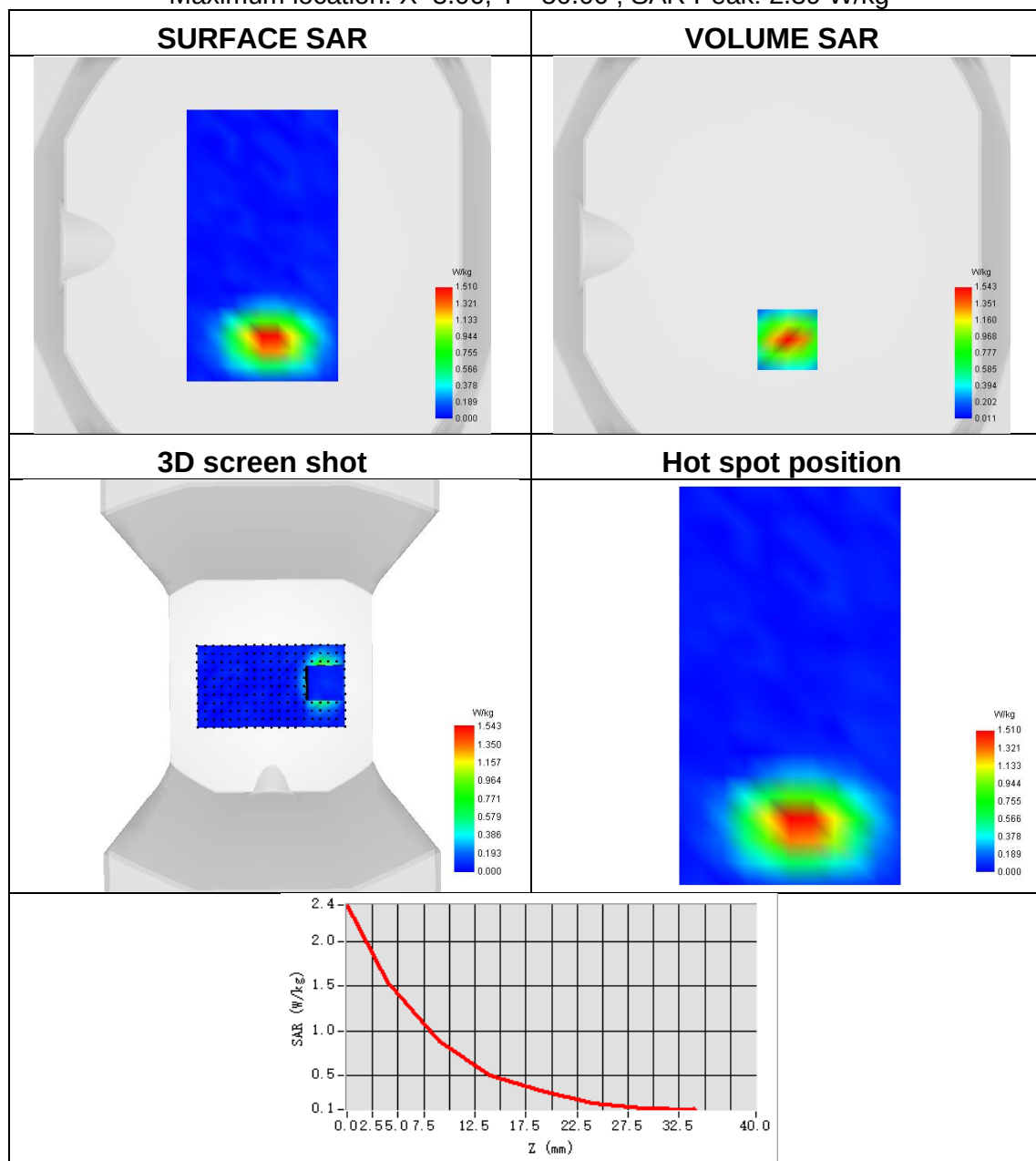




Plot 4:

Test Date	2024-09-07
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	GPRS1800
Signal	TDMA (GPRS)
Frequency	1784.8
SAR 10g (W/Kg)	0.711
SAR 1g (W/Kg)	1.406

Maximum location: X=3.00, Y=-50.00 ; SAR Peak: 2.39 W/kg

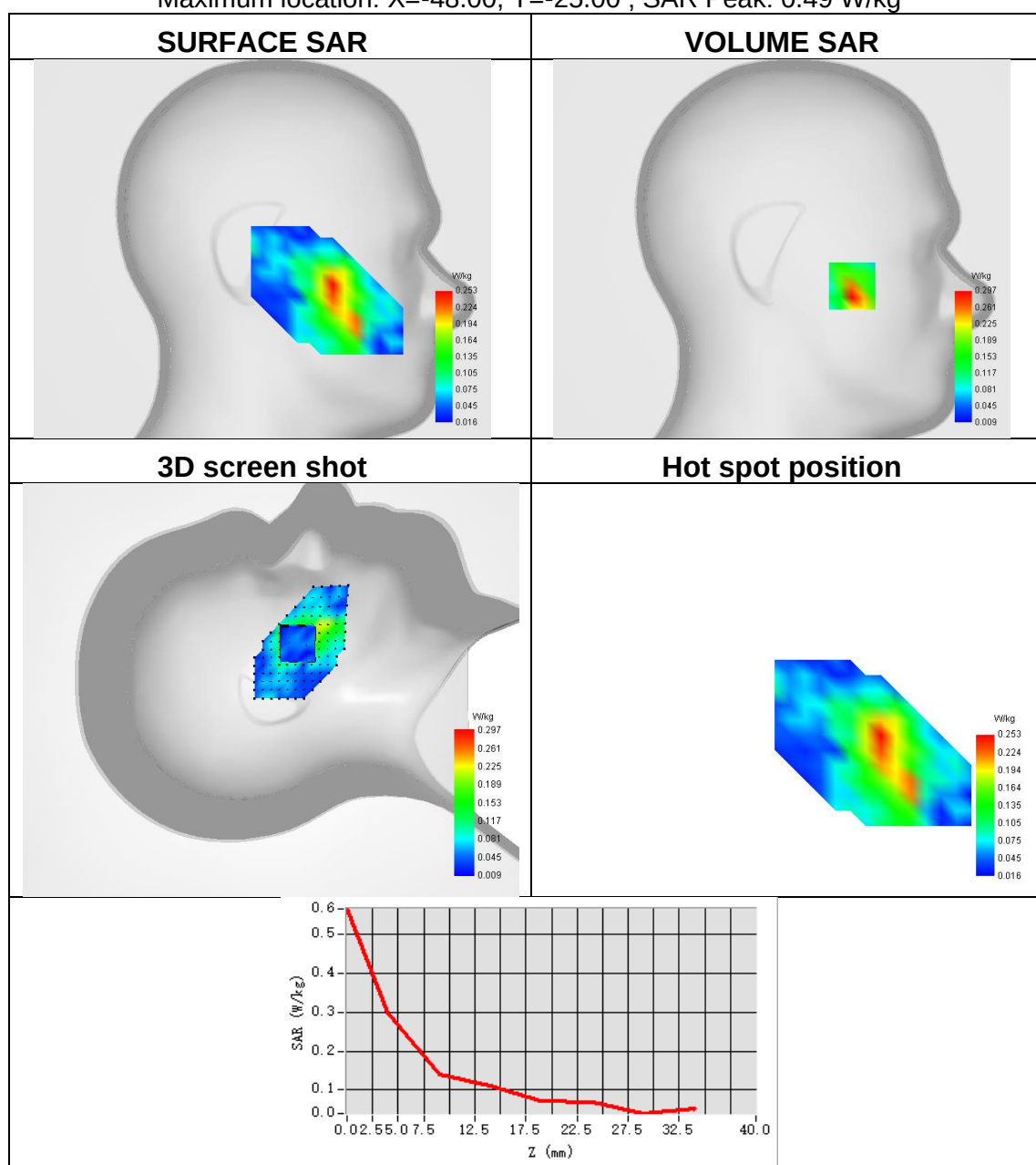




Plot 5:

Test Date	2024-09-08
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	Band 1 (UMTS)
Signal	WCDMA
Frequency	1922.4
SAR 10g (W/Kg)	0.134
SAR 1g (W/Kg)	0.274

Maximum location: X=-48.00, Y=-25.00 ; SAR Peak: 0.49 W/kg

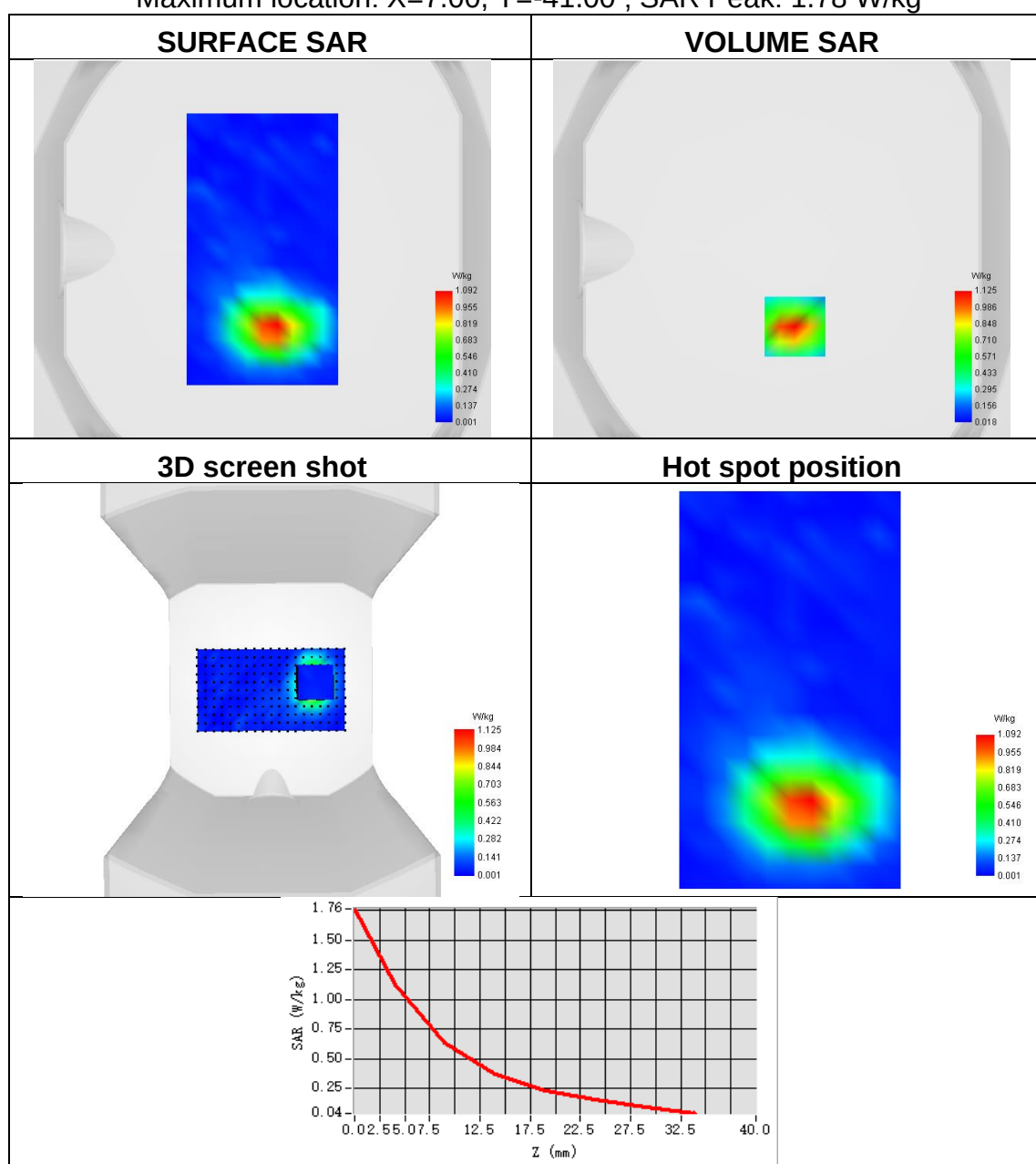




Plot 6:

Test Date	2024-09-08
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	Band 1 (UMTS)
Signal	WCDMA
Frequency	1922.4
SAR 10g (W/Kg)	0.538
SAR 1g (W/Kg)	1.052

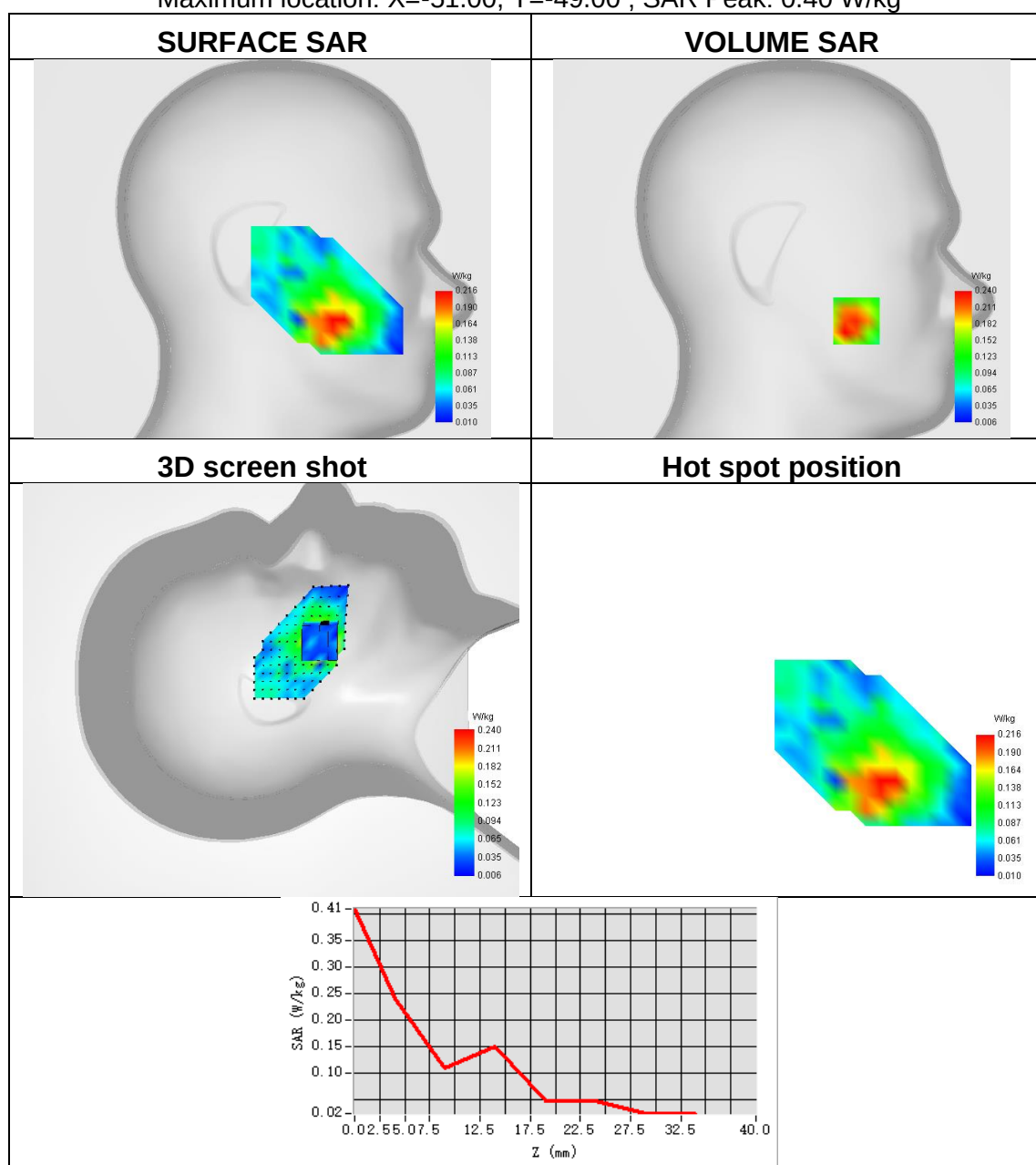
Maximum location: X=7.00, Y=-41.00 ; SAR Peak: 1.78 W/kg



Plot 7:

Test Date	2024-09-02
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	Band 8 (900)
Signal	WCDMA
Frequency	882.4
SAR 10g (W/Kg)	0.135
SAR 1g (W/Kg)	0.241

Maximum location: X=-51.00, Y=-49.00 ; SAR Peak: 0.40 W/kg

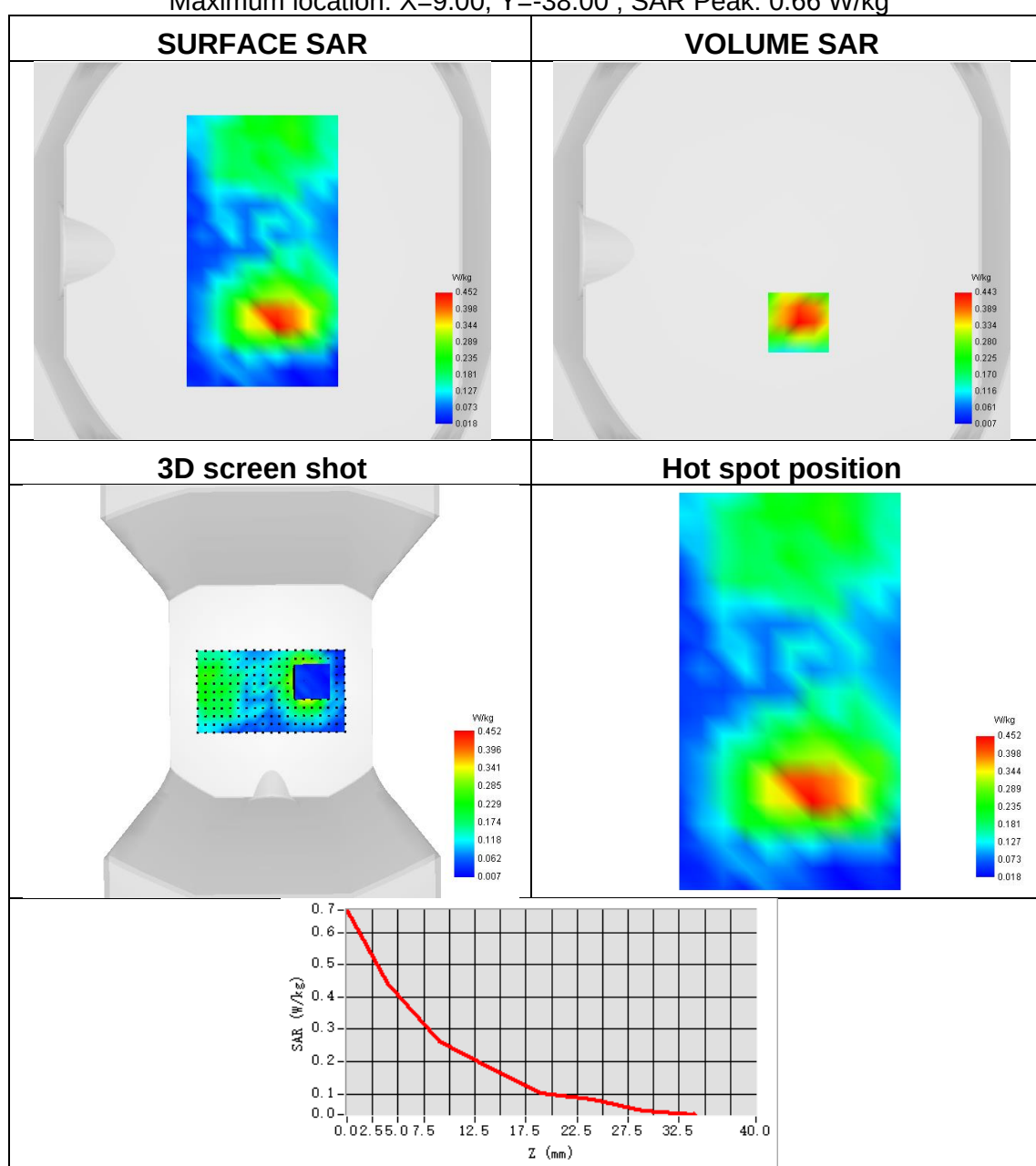




Plot 8:

Test Date	2024-09-02
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	Band 8 (900)
Signal	WCDMA
Frequency	882.4
SAR 10g (W/Kg)	0.243
SAR 1g (W/Kg)	0.422

Maximum location: X=9.00, Y=-38.00 ; SAR Peak: 0.66 W/kg

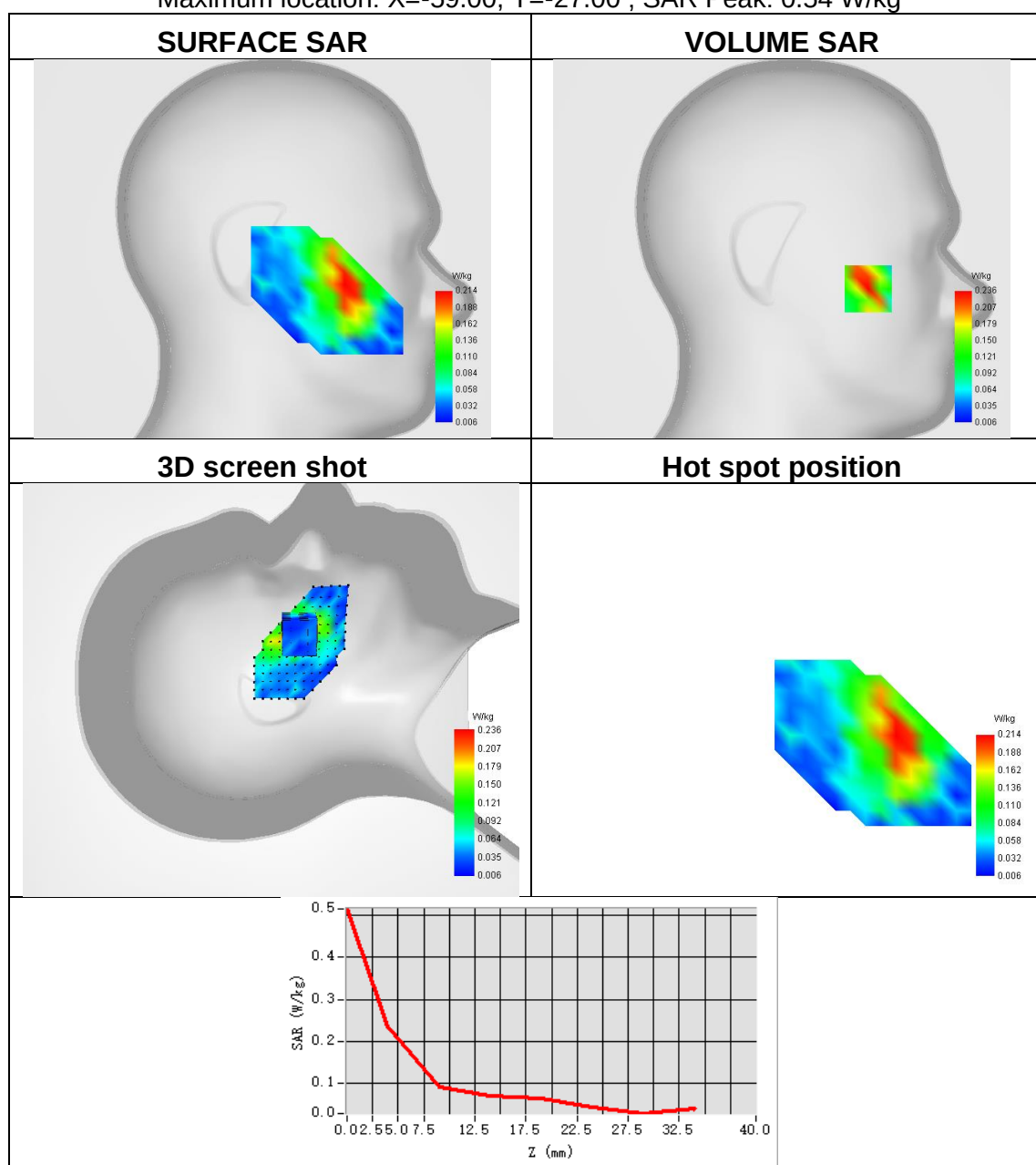




Plot 9:

Test Date	2024-09-08
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 1
Signal	LTE FDD
Frequency	1970
SAR 10g (W/Kg)	0.119
SAR 1g (W/Kg)	0.247

Maximum location: X=-59.00, Y=-27.00 ; SAR Peak: 0.54 W/kg

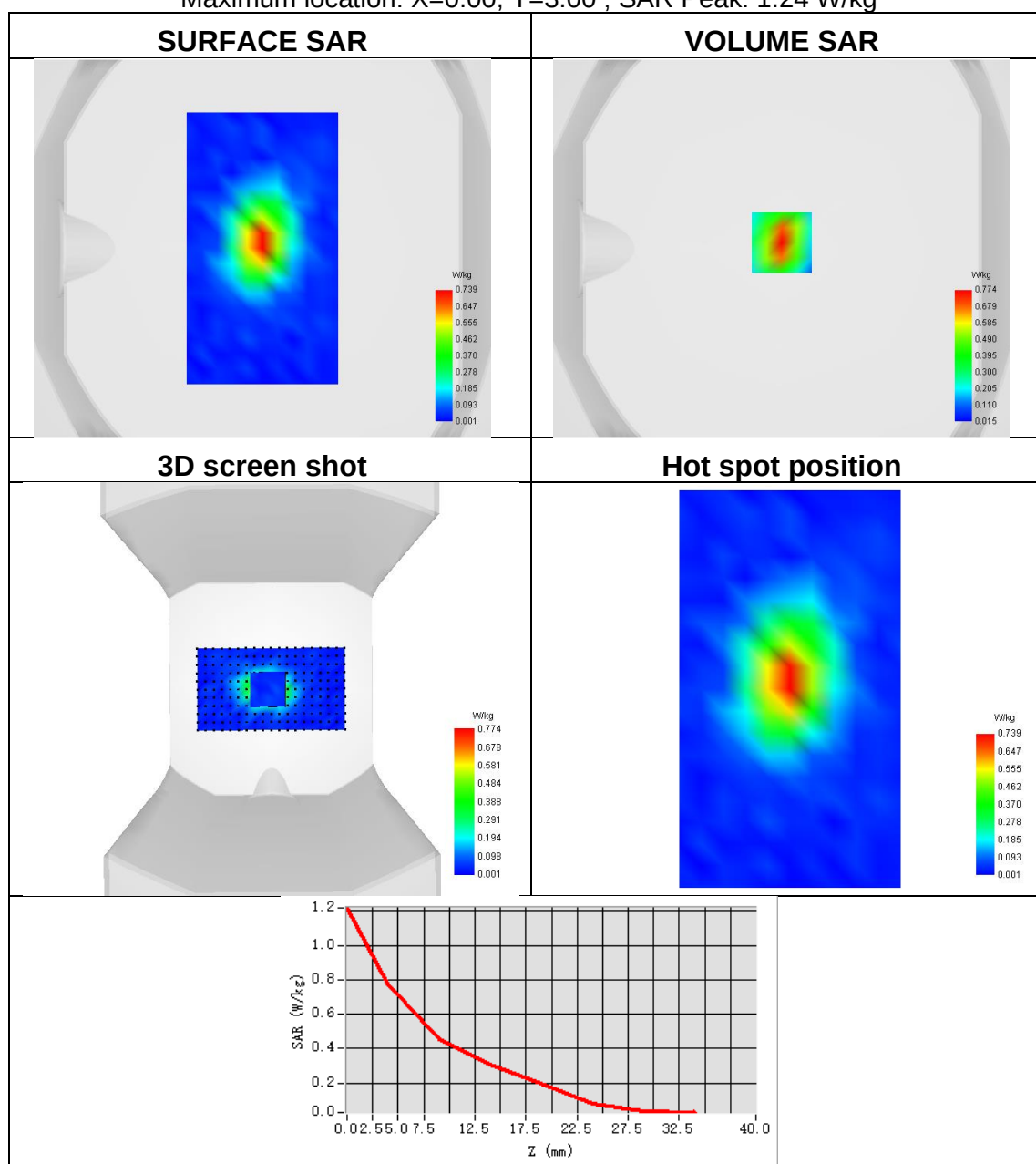




Plot 10:

Test Date	2024-09-08
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Edge
Band	LTE band 1
Signal	LTE FDD
Frequency	1970
SAR 10g (W/Kg)	0.368
SAR 1g (W/Kg)	0.721

Maximum location: X=0.00, Y=3.00 ; SAR Peak: 1.24 W/kg

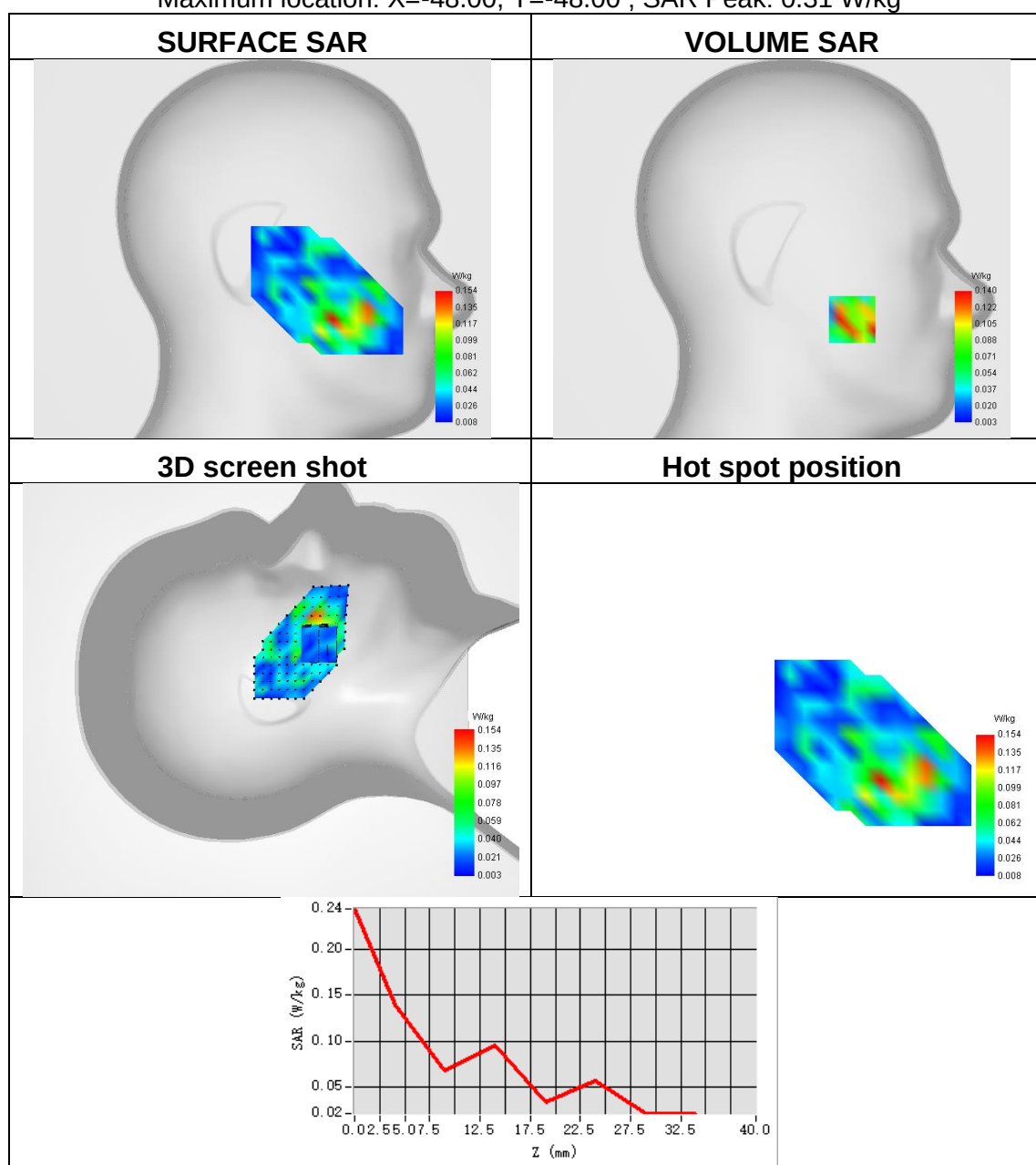




Plot 11:

Test Date	2024-09-07
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 3
Signal	LTE FDD
Frequency	1720
SAR 10g (W/Kg)	0.050
SAR 1g (W/Kg)	0.105

Maximum location: X=-48.00, Y=-48.00 ; SAR Peak: 0.31 W/kg

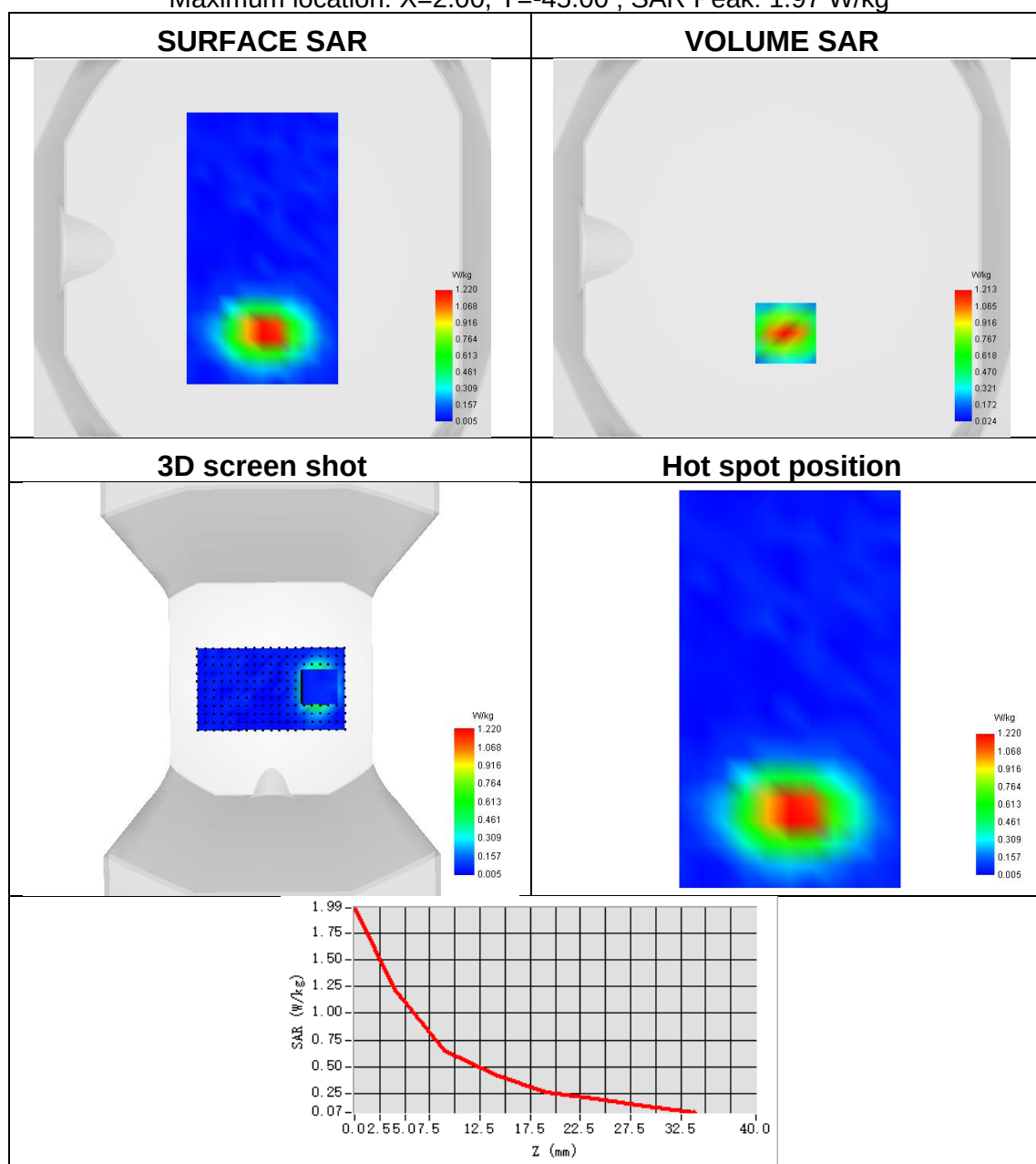




Plot 12:

Test Date	2024-09-07
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 3
Signal	LTE FDD
Frequency	1720
SAR 10g (W/Kg)	0.562
SAR 1g (W/Kg)	1.116

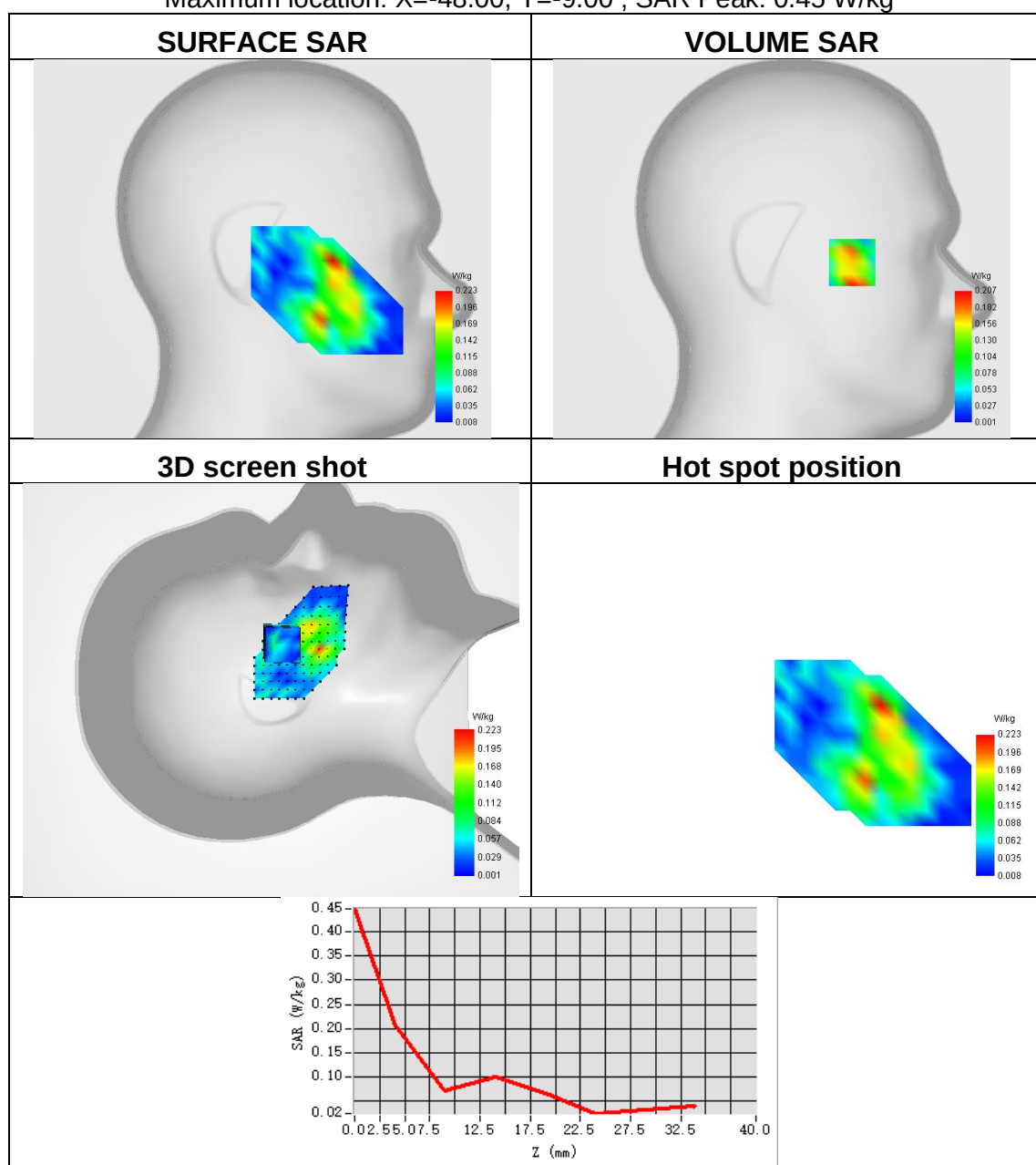
Maximum location: X=2.00, Y=-45.00 ; SAR Peak: 1.97 W/kg



Plot 13:

Test Date	2024-09-03
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 7
Signal	LTE FDD
Frequency	2510
SAR 10g (W/Kg)	0.088
SAR 1g (W/Kg)	0.208

Maximum location: X=-48.00, Y=-9.00 ; SAR Peak: 0.45 W/kg

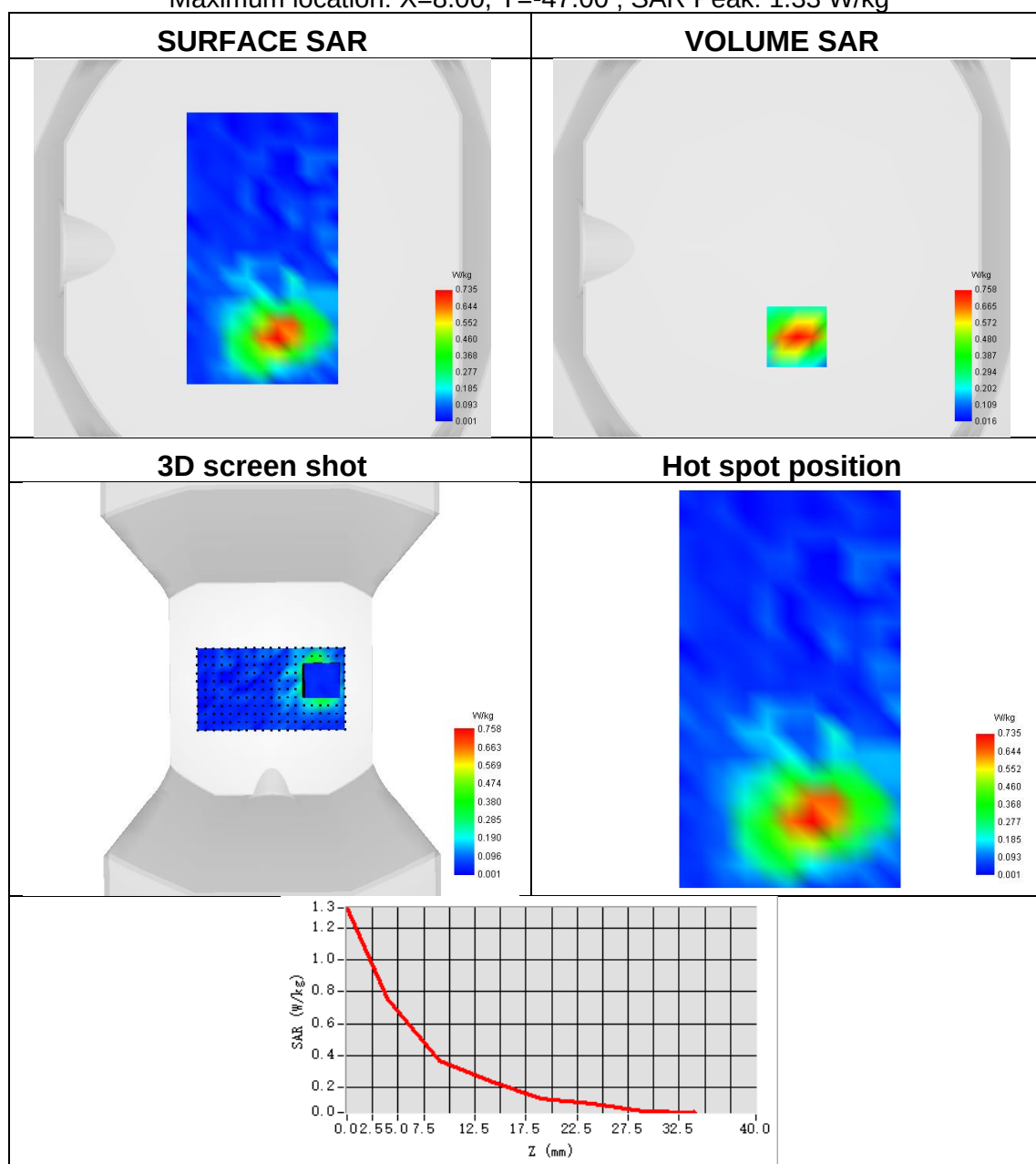




Plot 14:

Test Date	2024-09-03
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 7
Signal	LTE FDD
Frequency	2510
SAR 10g (W/Kg)	0.347
SAR 1g (W/Kg)	0.717

Maximum location: X=8.00, Y=-47.00 ; SAR Peak: 1.33 W/kg

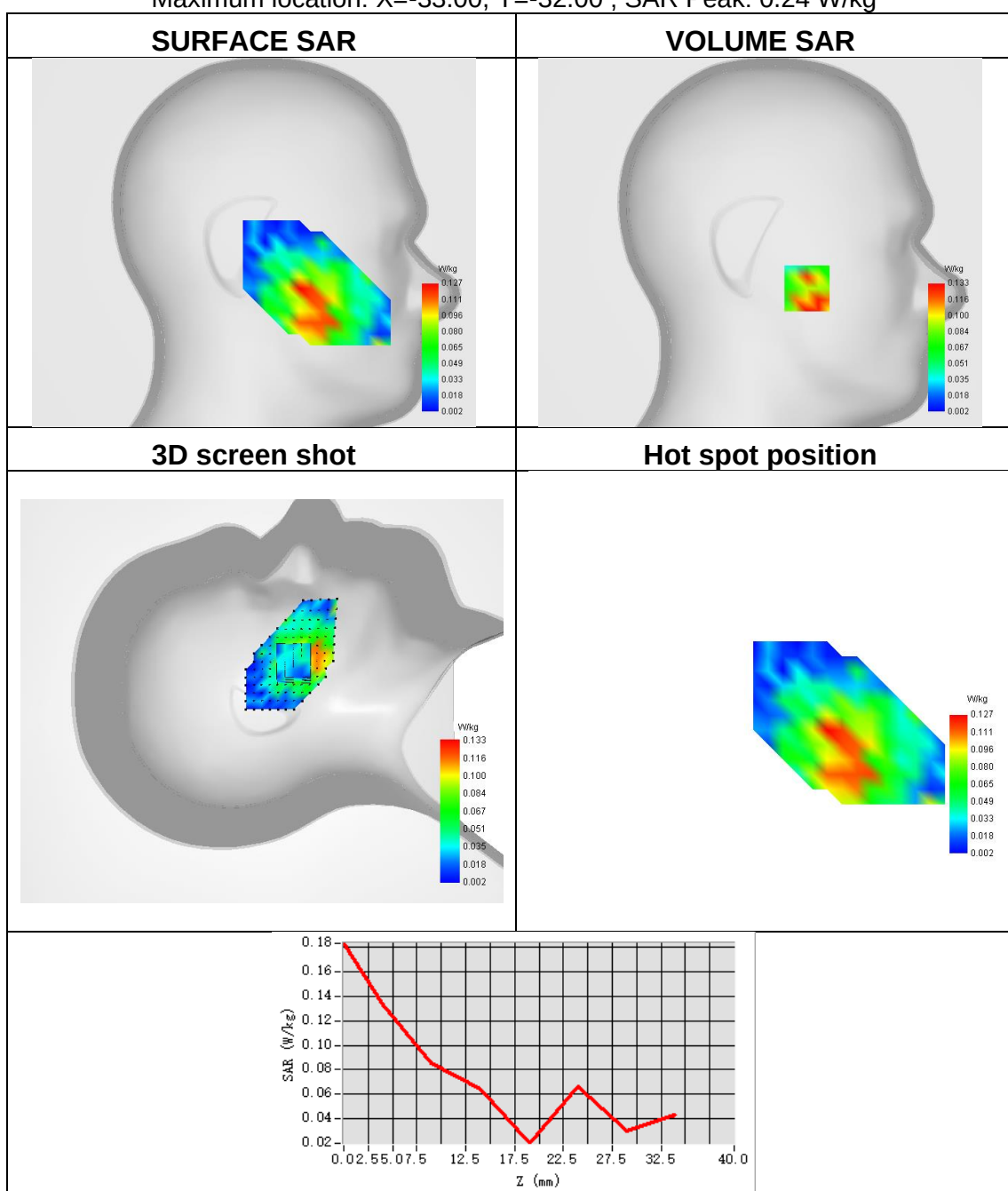




Plot 15:

Test Date	2024-09-02
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 8
Signal	LTE FDD
Frequency	885
SAR 10g (W/Kg)	0.066
SAR 1g (W/Kg)	0.131

Maximum location: X=-33.00, Y=-32.00 ; SAR Peak: 0.24 W/kg

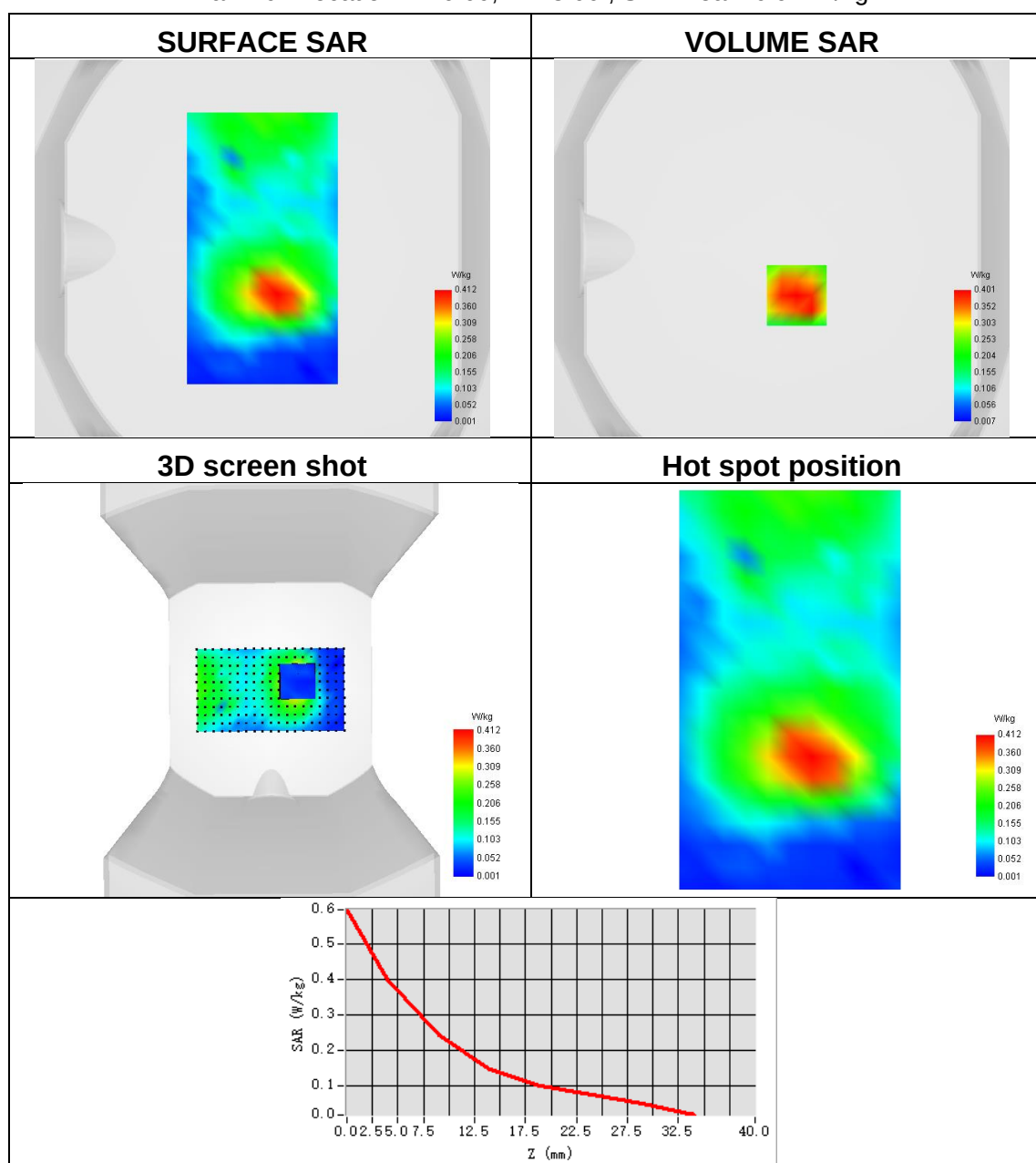




Plot 16:

Test Date	2024-09-02
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 8
Signal	LTE FDD
Frequency	885
SAR 10g (W/Kg)	0.217
SAR 1g (W/Kg)	0.398

Maximum location: X=0.00, Y=28.00 ; SAR Peak: 0.94 W/kg

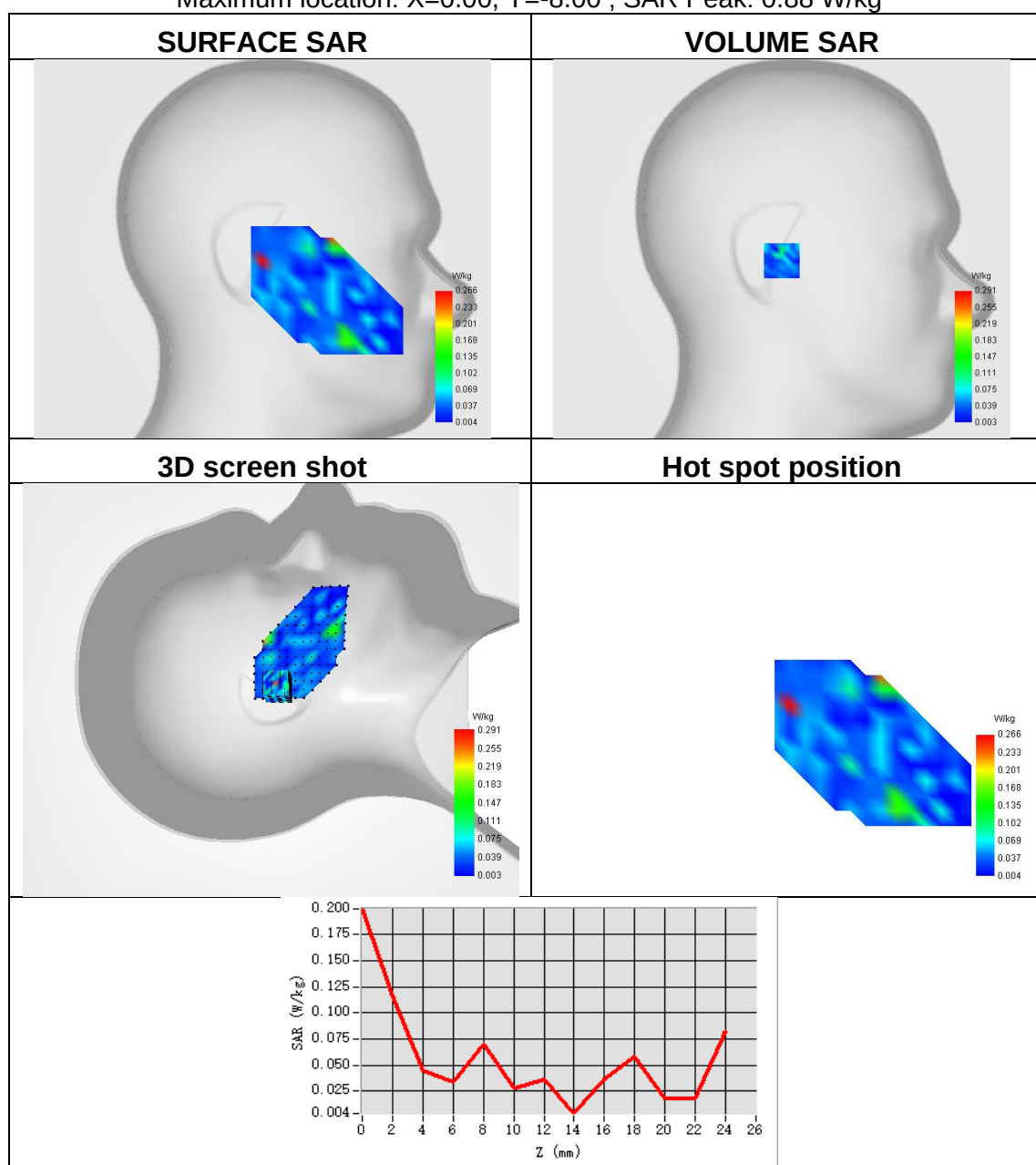




Plot 17:

Test Date	2024-09-02
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 20
Signal	LTE FDD
Frequency	847
SAR 10g (W/Kg)	0.053
SAR 1g (W/Kg)	0.101

Maximum location: X=0.00, Y=-8.00 ; SAR Peak: 0.88 W/kg

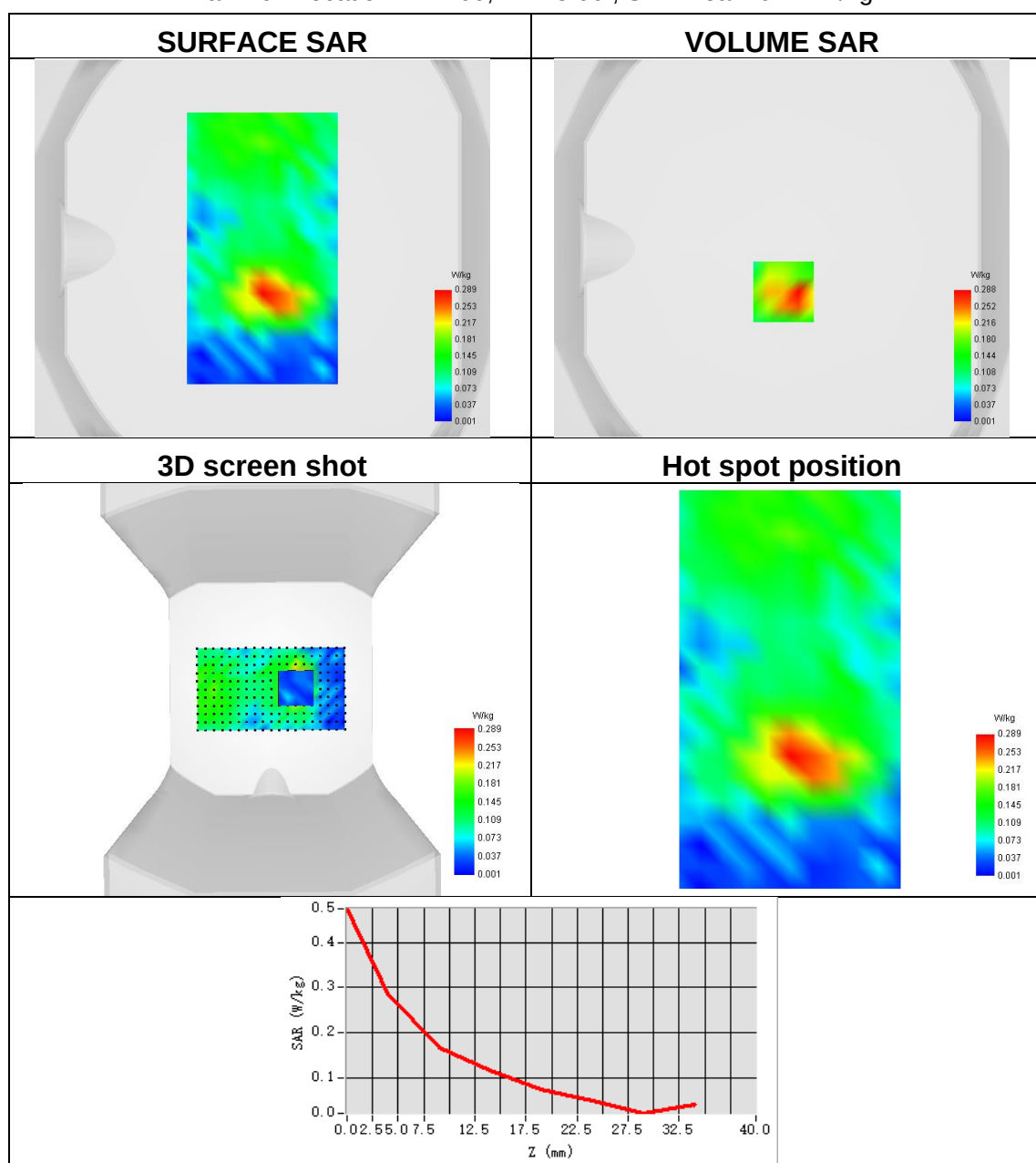




Plot 18:

Test Date	2024-09-02
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 20
Signal	LTE FDD
Frequency	847
SAR 10g (W/Kg)	0.142
SAR 1g (W/Kg)	0.269

Maximum location: X=1.00, Y=-23.00 ; SAR Peak: 0.47 W/kg

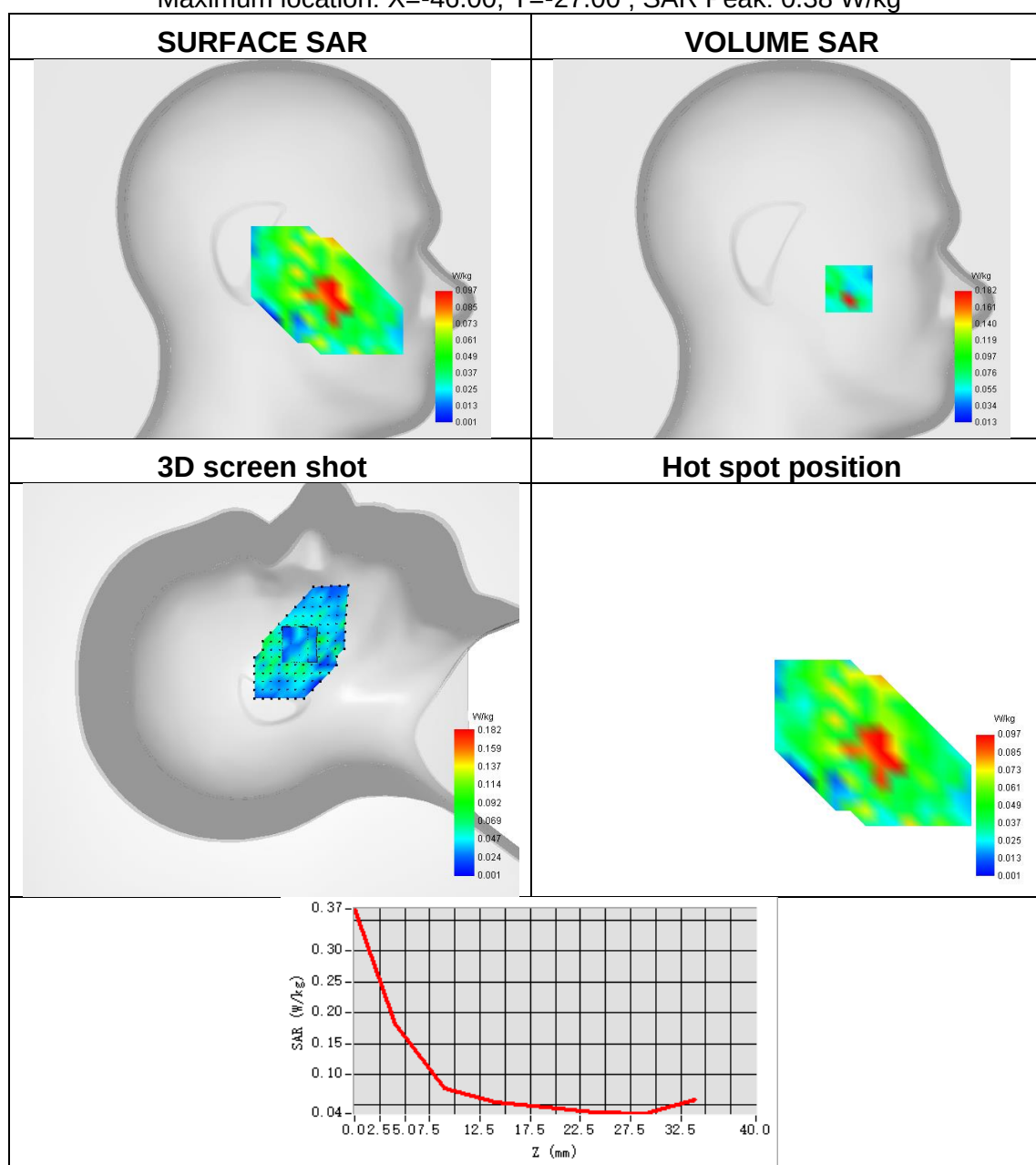




Plot 19:

Test Date	2024-09-07
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 28
Signal	LTE FDD
Frequency	713
SAR 10g (W/Kg)	0.066
SAR 1g (W/Kg)	0.145

Maximum location: X=-46.00, Y=-27.00 ; SAR Peak: 0.38 W/kg

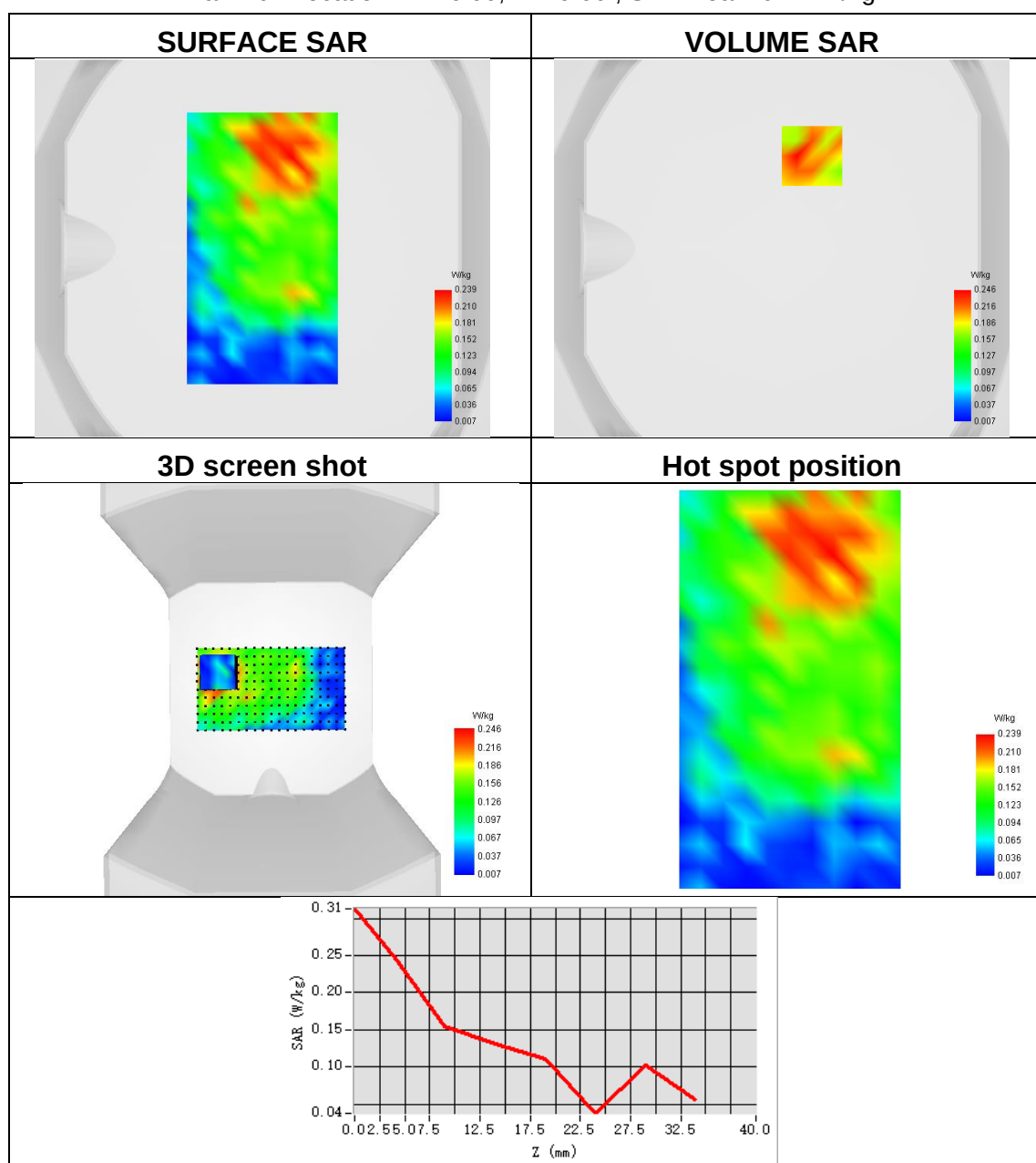




Plot 20:

Test Date	2024-09-07
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 28
Signal	LTE FDD
Frequency	713
SAR 10g (W/Kg)	0.148
SAR 1g (W/Kg)	0.266

Maximum location: X=16.00, Y=49.00 ; SAR Peak: 0.44 W/kg

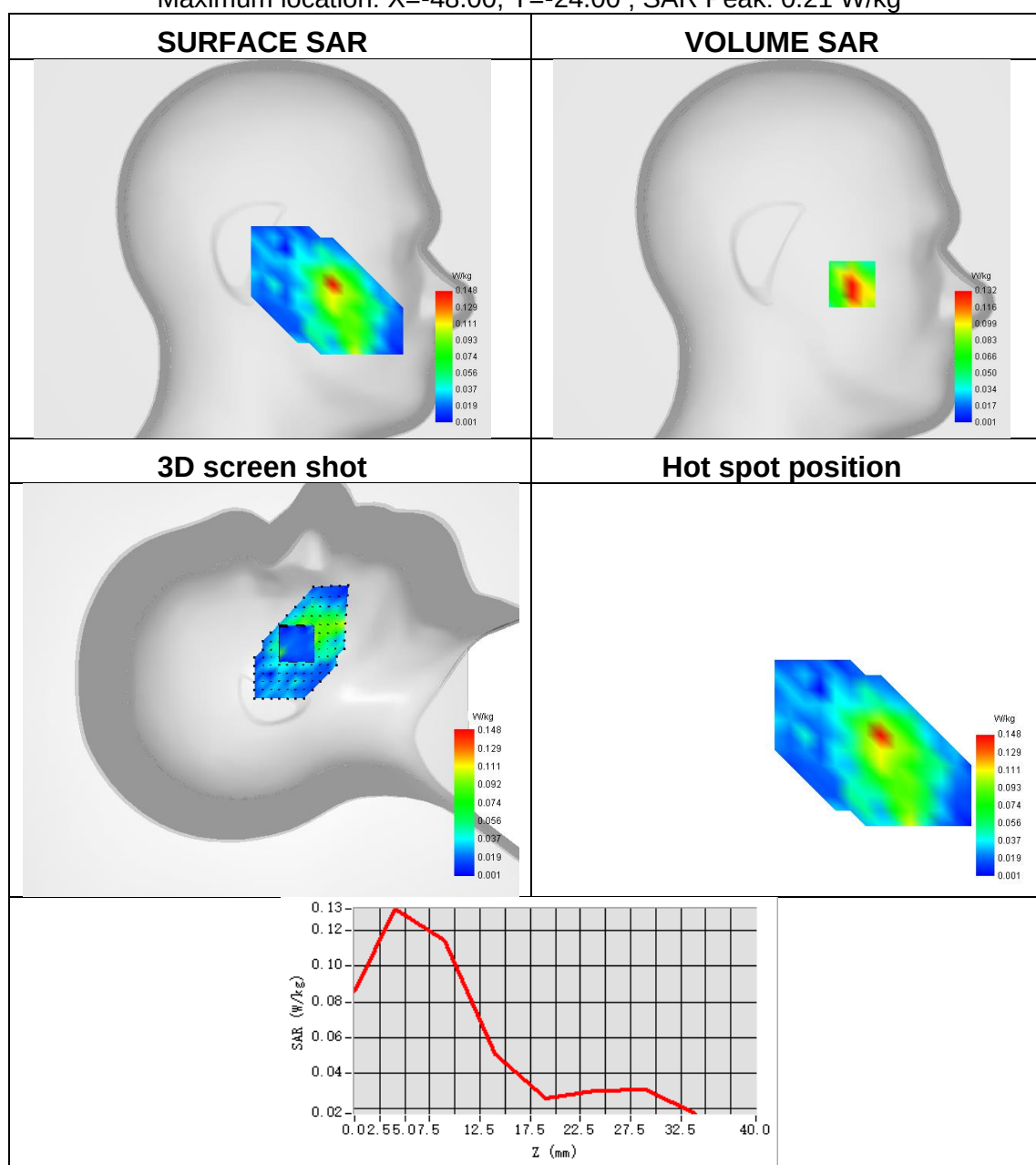




Plot 21:

Test Date	2024-09-09
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right Cheek
Device Position	Cheek
Band	LTE band 34
Signal	LTE TDD
Frequency	2017.5
SAR 10g (W/Kg)	0.071
SAR 1g (W/Kg)	0.123

Maximum location: X=-48.00, Y=-24.00 ; SAR Peak: 0.21 W/kg

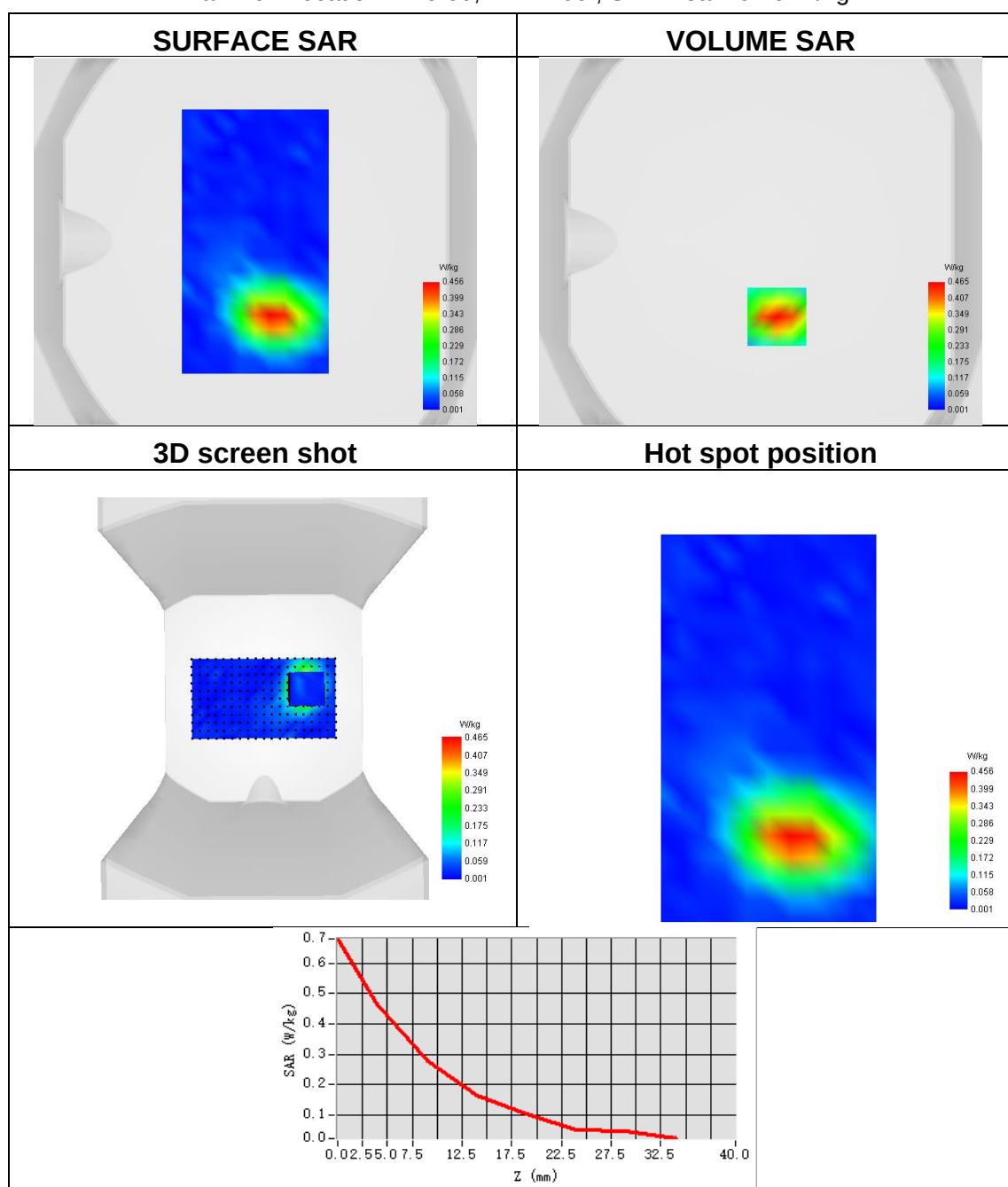




Plot 22:

Test Date	2024-09-09
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 34
Signal	LTE TDD
Frequency	2017.5
SAR 10g (W/Kg)	0.229
SAR 1g (W/Kg)	0.431

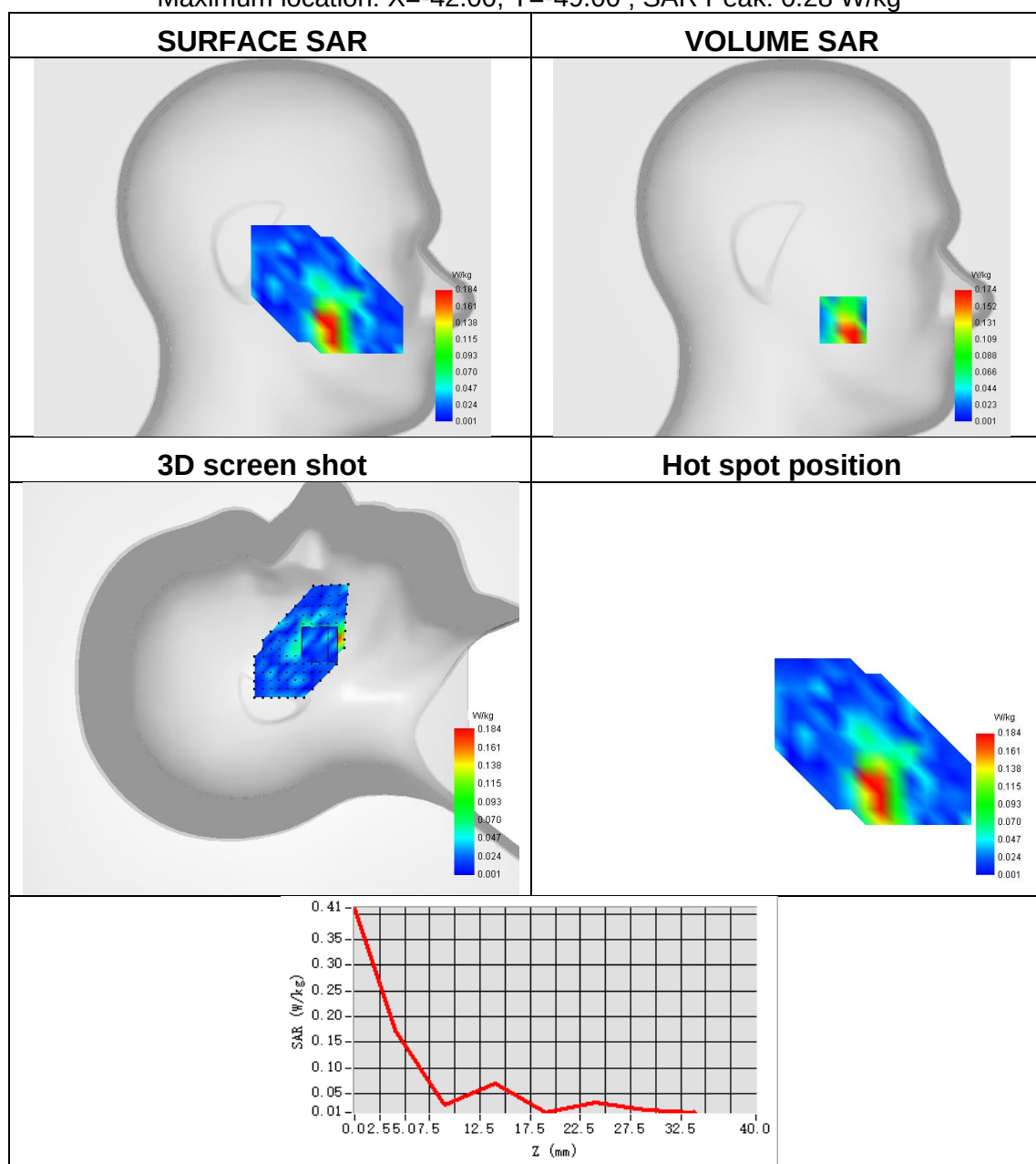
Maximum location: X=9.00, Y=-41.00 ; SAR Peak: 0.70 W/kg



Plot 23:

Test Date	2024-09-03
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 38
Signal	LTE TDD
Frequency	2610
SAR 10g (W/Kg)	0.068
SAR 1g (W/Kg)	0.163

Maximum location: X=-42.00, Y=-49.00 ; SAR Peak: 0.28 W/kg

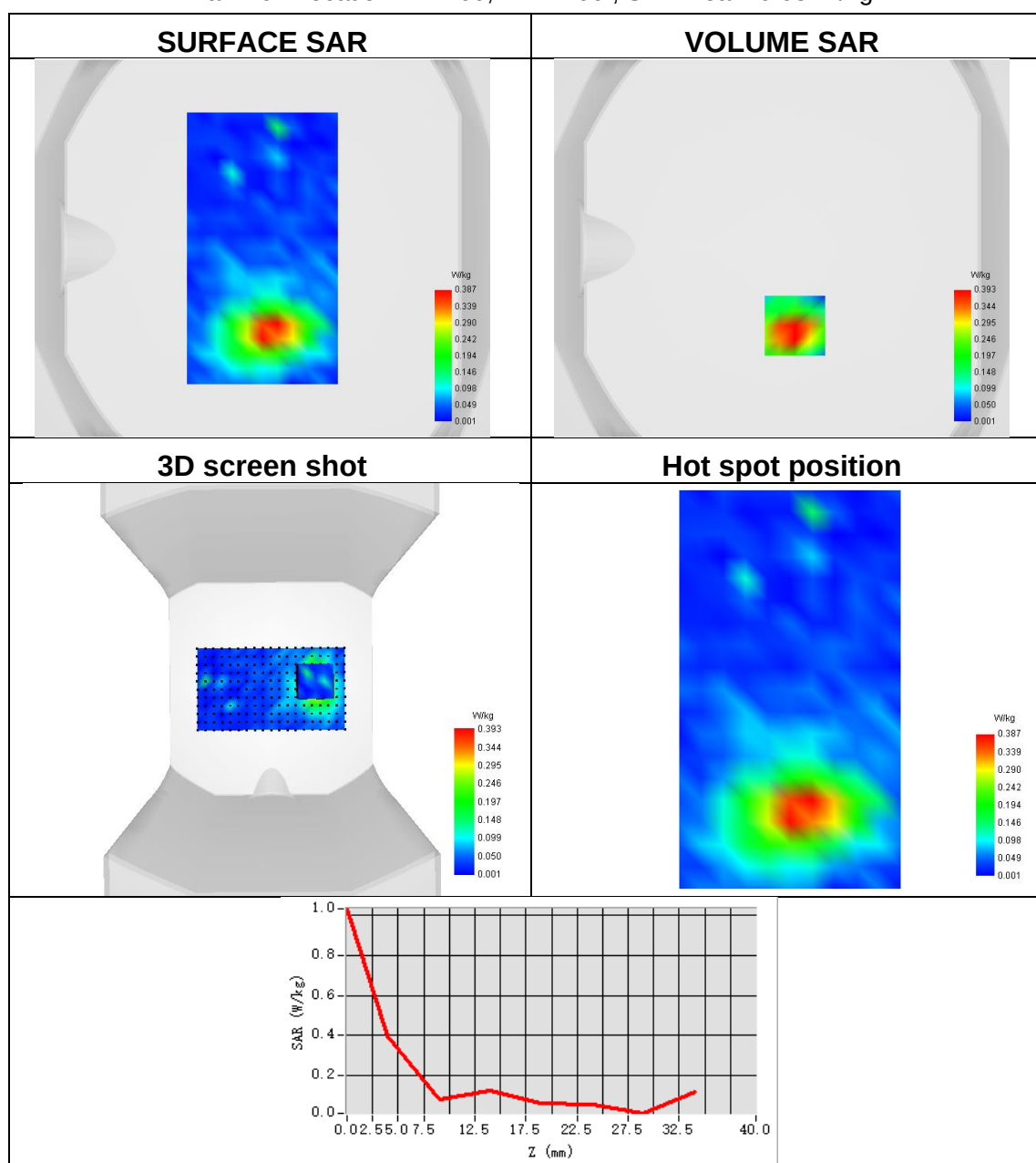




Plot 24:

Test Date	2024-09-03
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 38
Signal	LTE TDD
Frequency	2610
SAR 10g (W/Kg)	0.192
SAR 1g (W/Kg)	0.393

Maximum location: X=7.00, Y=-41.00 ; SAR Peak: 0.68 W/kg

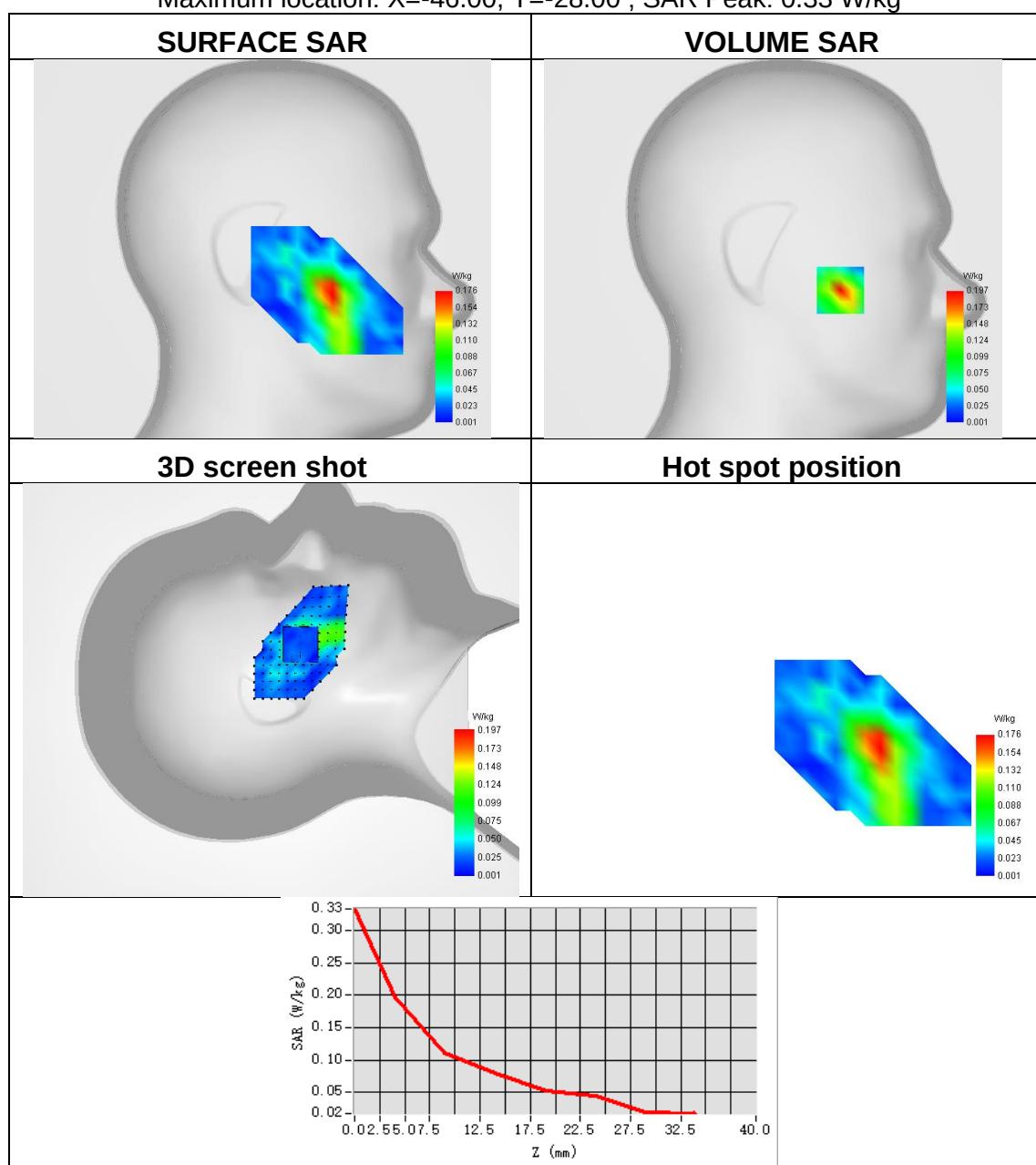




Plot 25:

Test Date	2024-09-10
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 40
Signal	LTE TDD
Frequency	2390
SAR 10g (W/Kg)	0.094
SAR 1g (W/Kg)	0.182

Maximum location: X=-46.00, Y=-28.00 ; SAR Peak: 0.33 W/kg

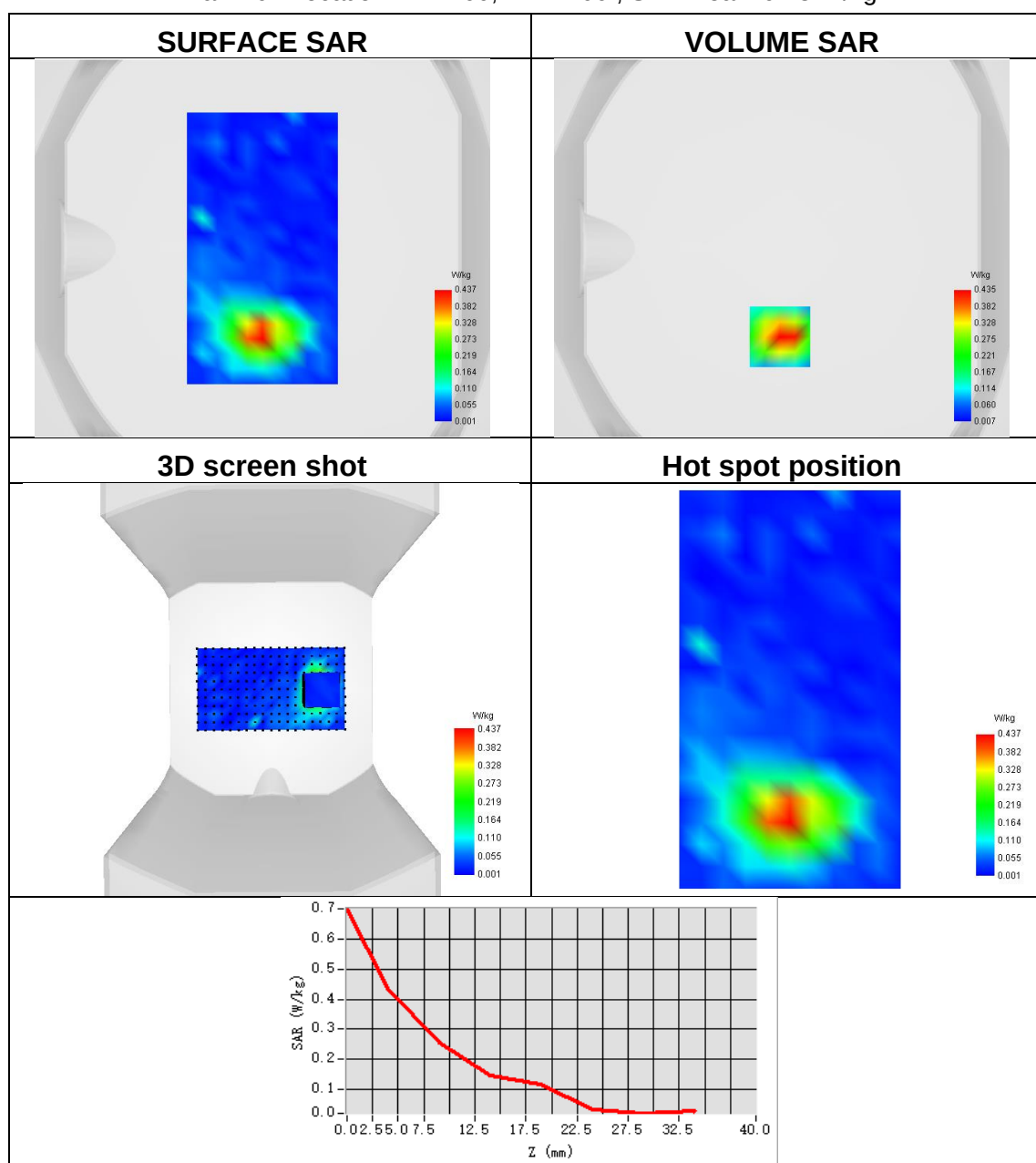




Plot 26:

Test Date	2024-09-10
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 40
Signal	LTE TDD
Frequency	2390
SAR 10g (W/Kg)	0.208
SAR 1g (W/Kg)	0.423

Maximum location: X=-1.00, Y=-47.00 ; SAR Peak: 0.73 W/kg

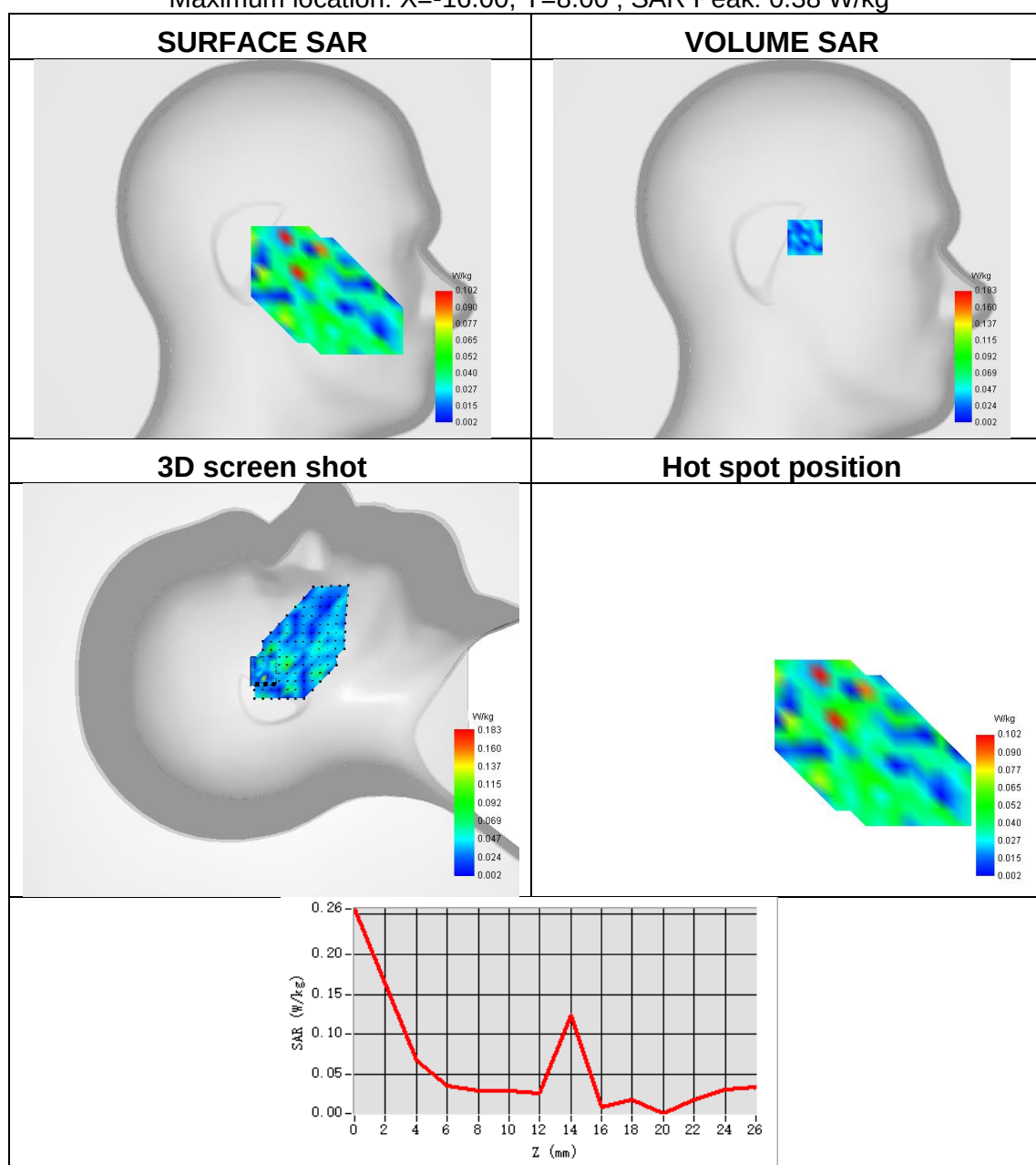




Plot 27:

Test Date	2024-09-08
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 42
Signal	LTE TDD
Frequency	3500
SAR 10g (W/Kg)	0.028
SAR 1g (W/Kg)	0.041

Maximum location: X=-16.00, Y=8.00 ; SAR Peak: 0.38 W/kg

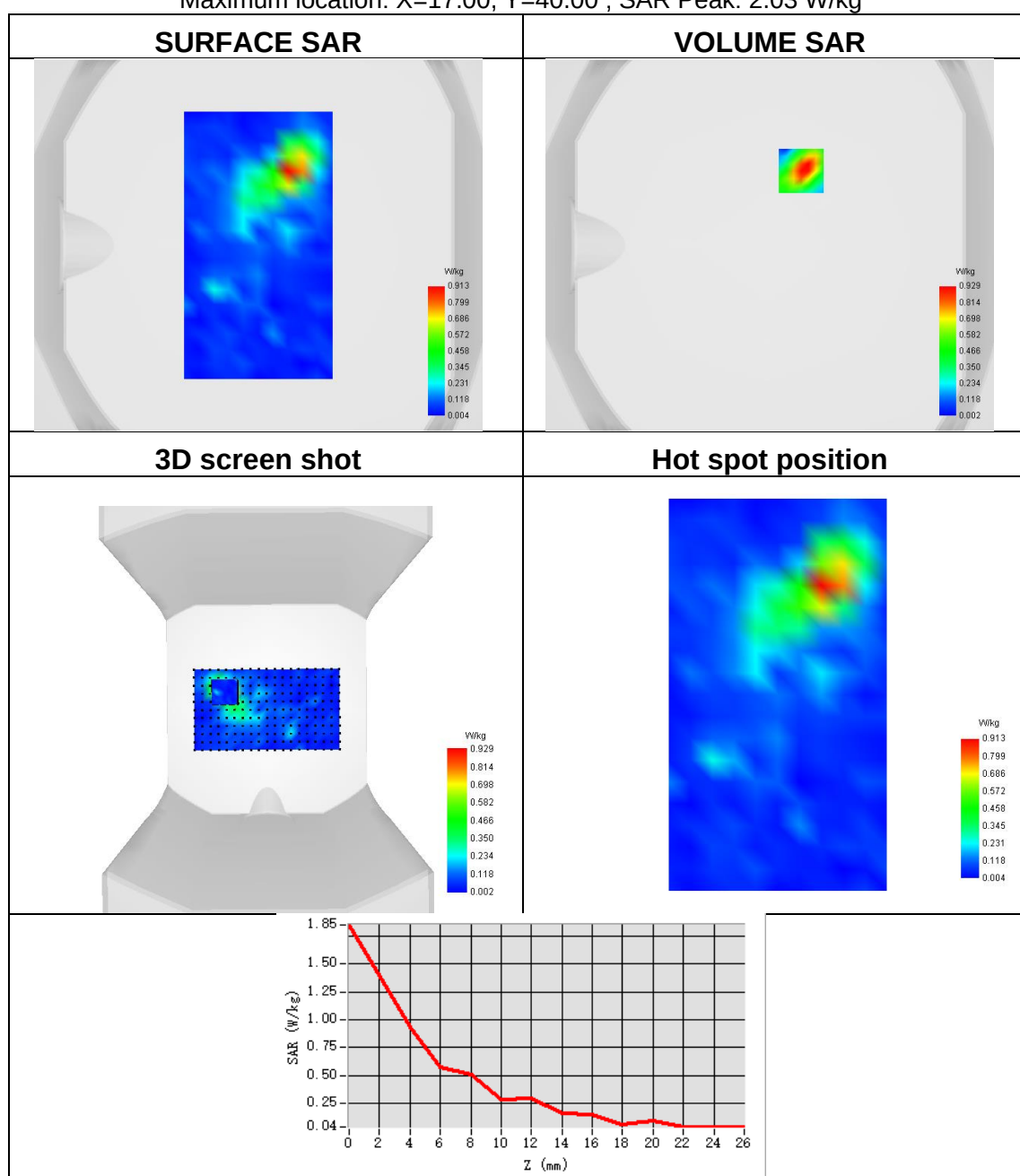




Plot 28:

Test Date	2024-09-08
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 42
Signal	LTE TDD
Frequency	3500
SAR 10g (W/Kg)	0.320
SAR 1g (W/Kg)	0.836

Maximum location: X=17.00, Y=40.00 ; SAR Peak: 2.03 W/kg

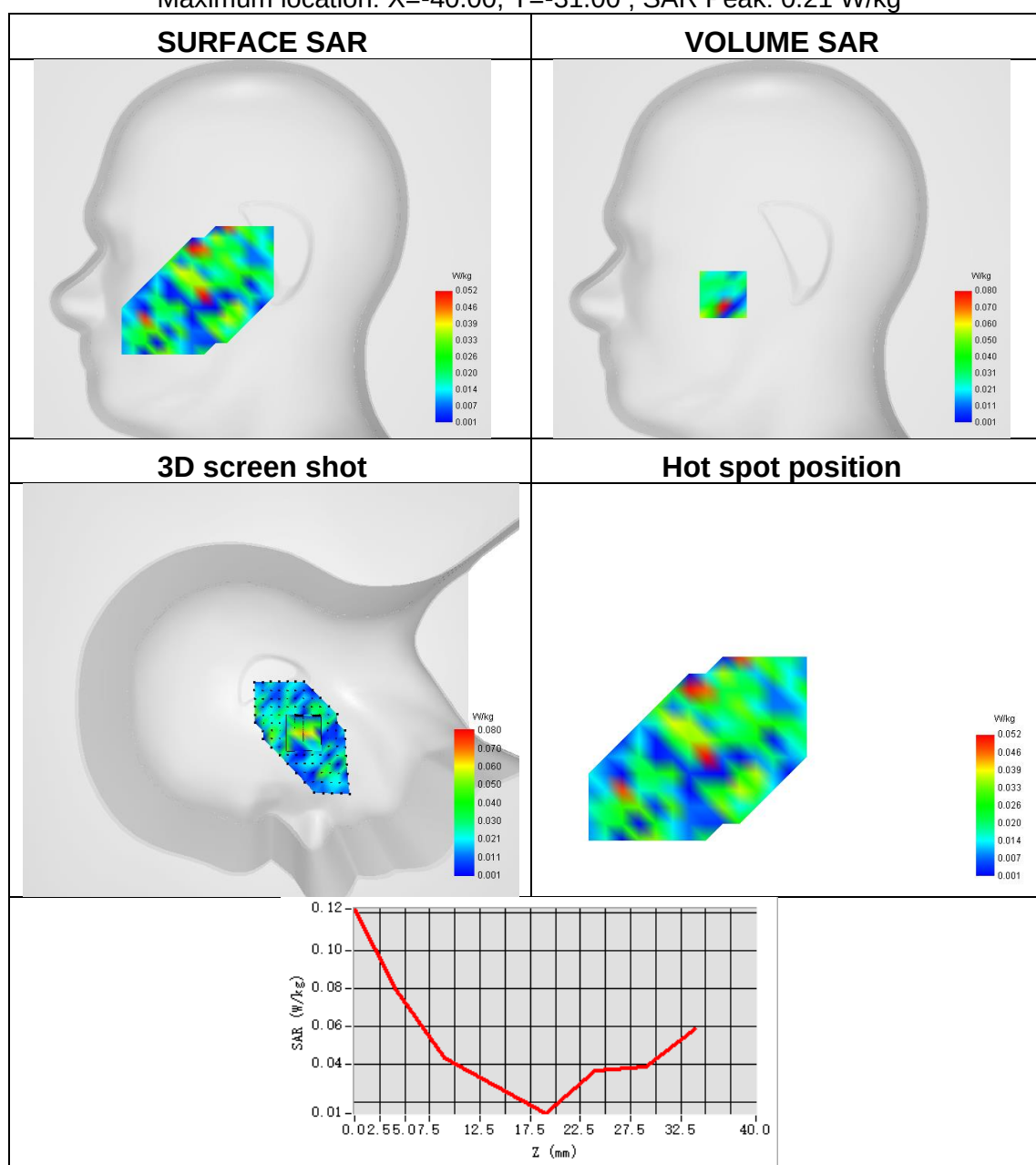




Plot 29:

Test Date	2024-09-09
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	ISM ANT 1
Signal	IEEE 802.11 b
Frequency	2442
SAR 10g (W/Kg)	0.029
SAR 1g (W/Kg)	0.070

Maximum location: X=-40.00, Y=-31.00 ; SAR Peak: 0.21 W/kg

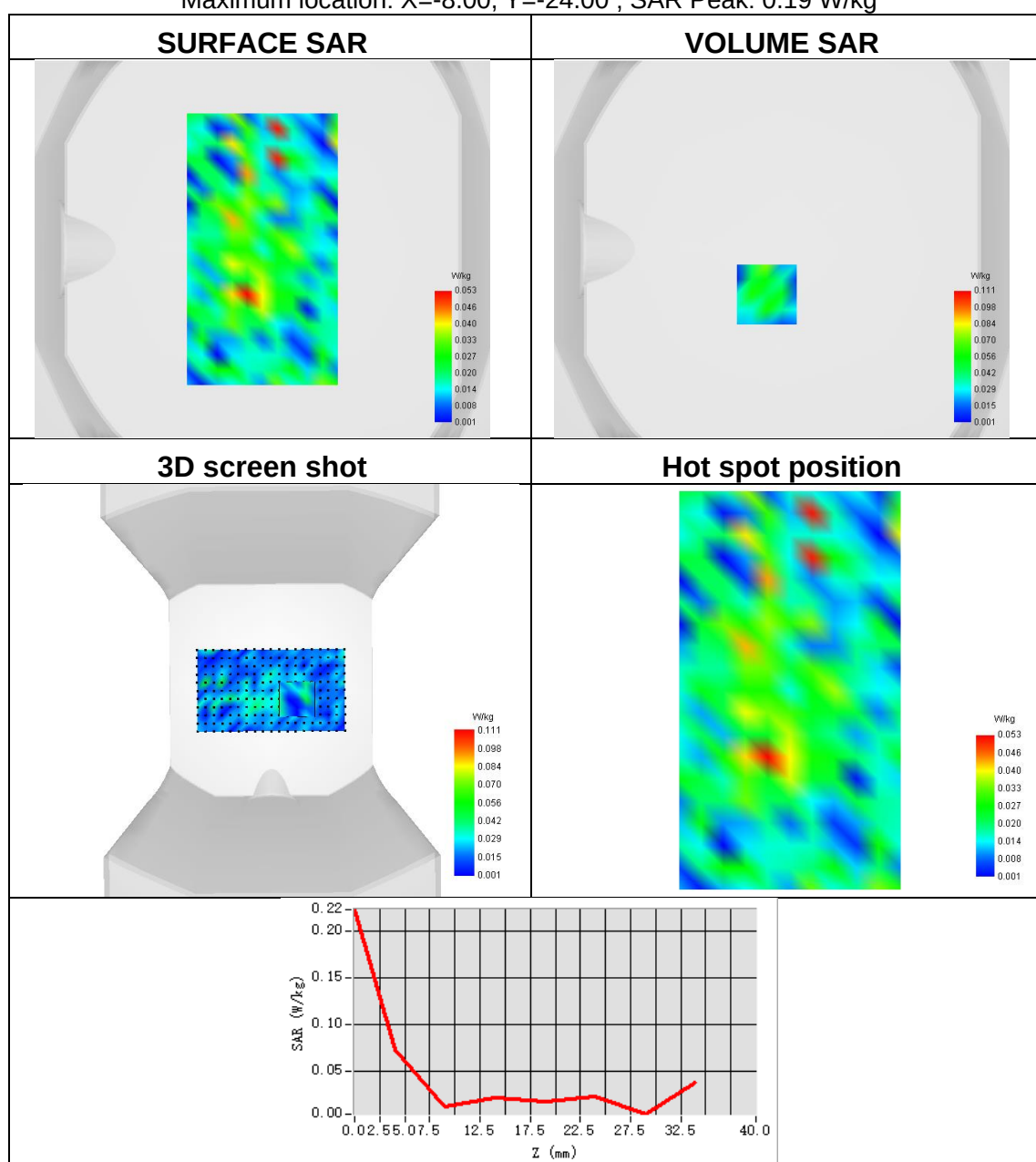




Plot 30:

Test Date	2024-09-09
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Top Edge
Band	ISM ANT 1
Signal	IEEE 802.11 b
Frequency	2442
SAR 10g (W/Kg)	0.025
SAR 1g (W/Kg)	0.066

Maximum location: X=-8.00, Y=-24.00 ; SAR Peak: 0.19 W/kg

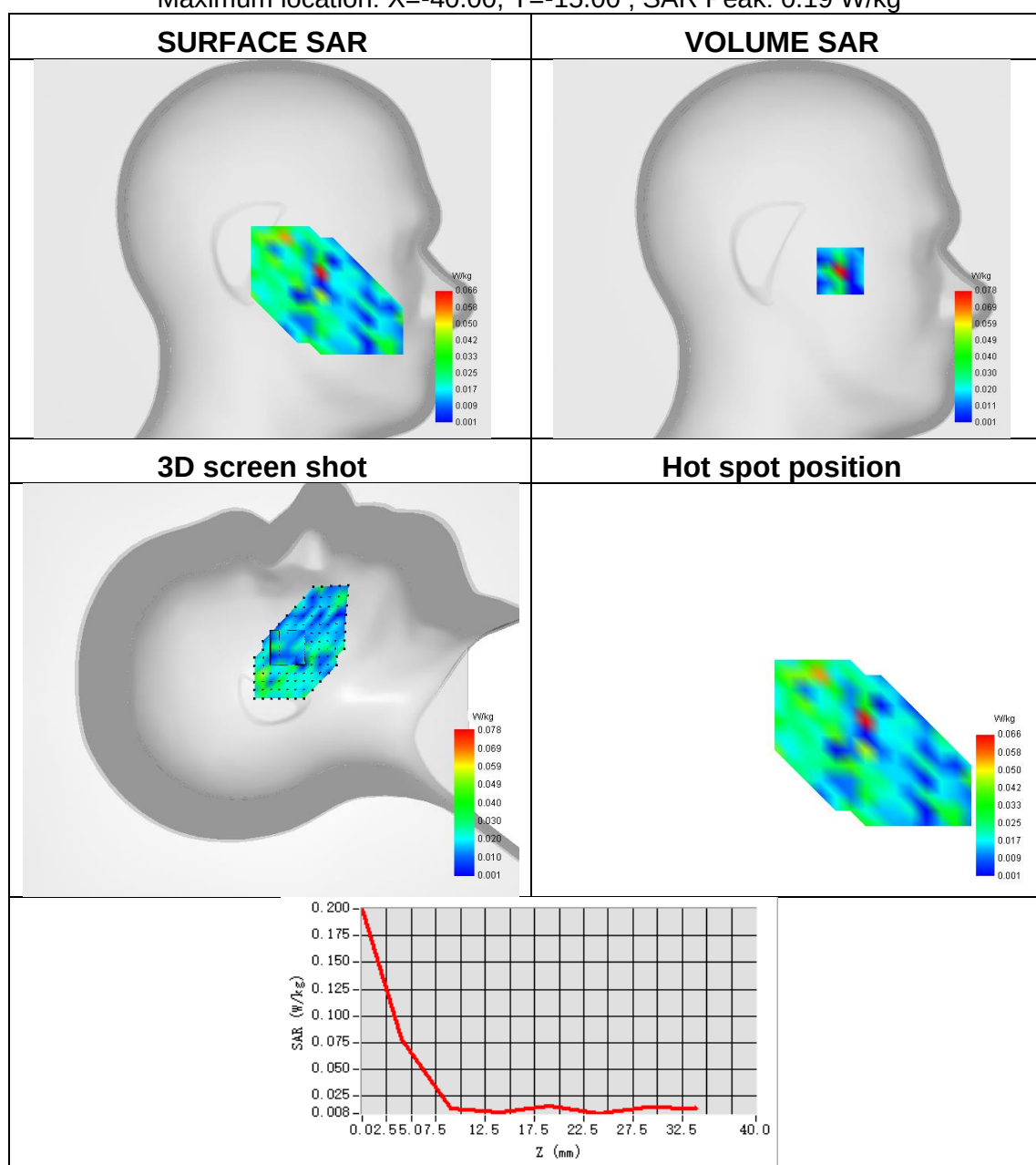




Plot 31:

Test Date	2024-09-09
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	ISM ANT 2
Signal	IEEE 802.11 b
Frequency	2442
SAR 10g (W/Kg)	0.019
SAR 1g (W/Kg)	0.064

Maximum location: X=-40.00, Y=-15.00 ; SAR Peak: 0.19 W/kg

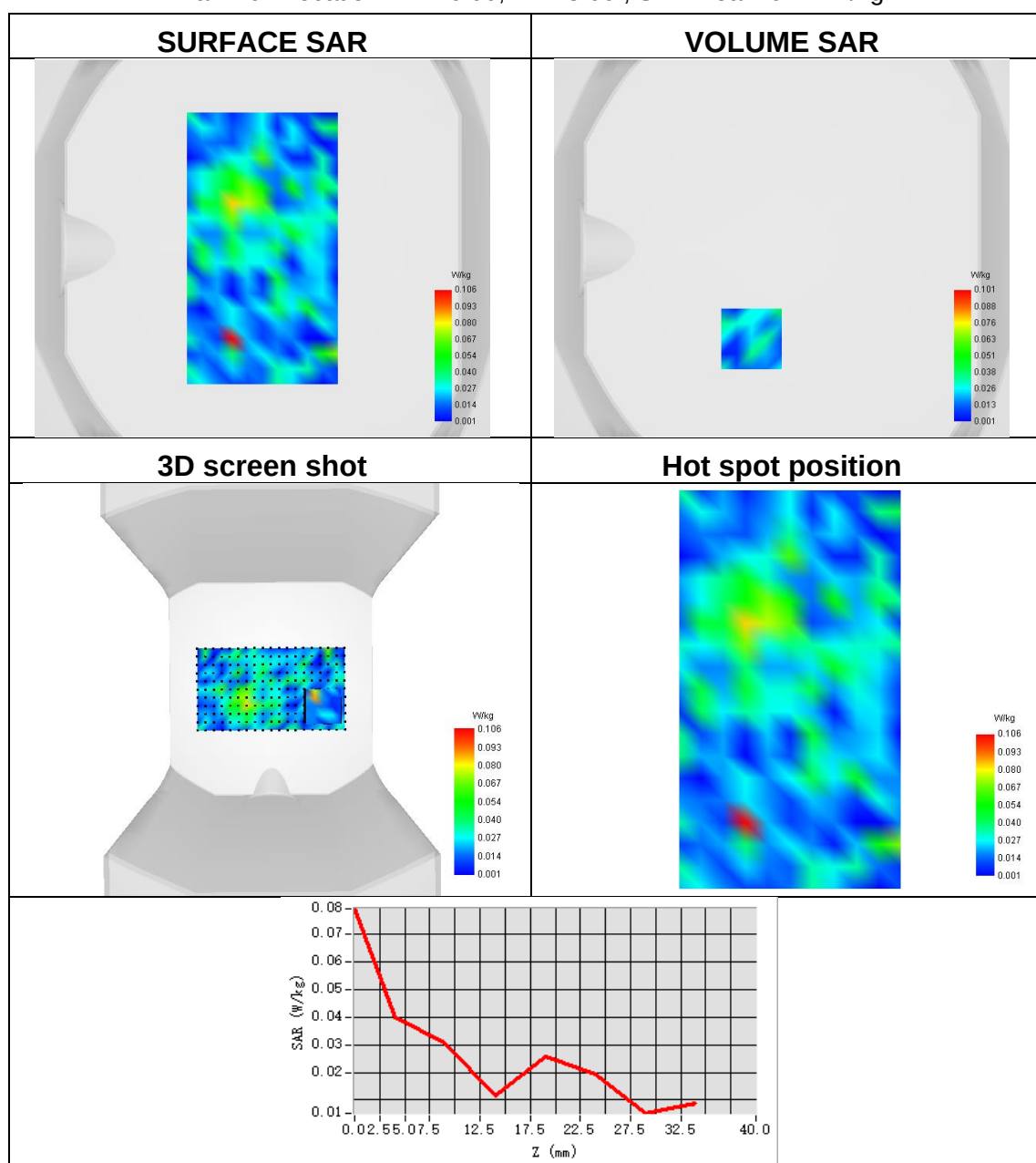




Plot 32:

Test Date	2024-09-09
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	ISM ANT 2
Signal	IEEE 802.11 b
Frequency	2442
SAR 10g (W/Kg)	0.021
SAR 1g (W/Kg)	0.044

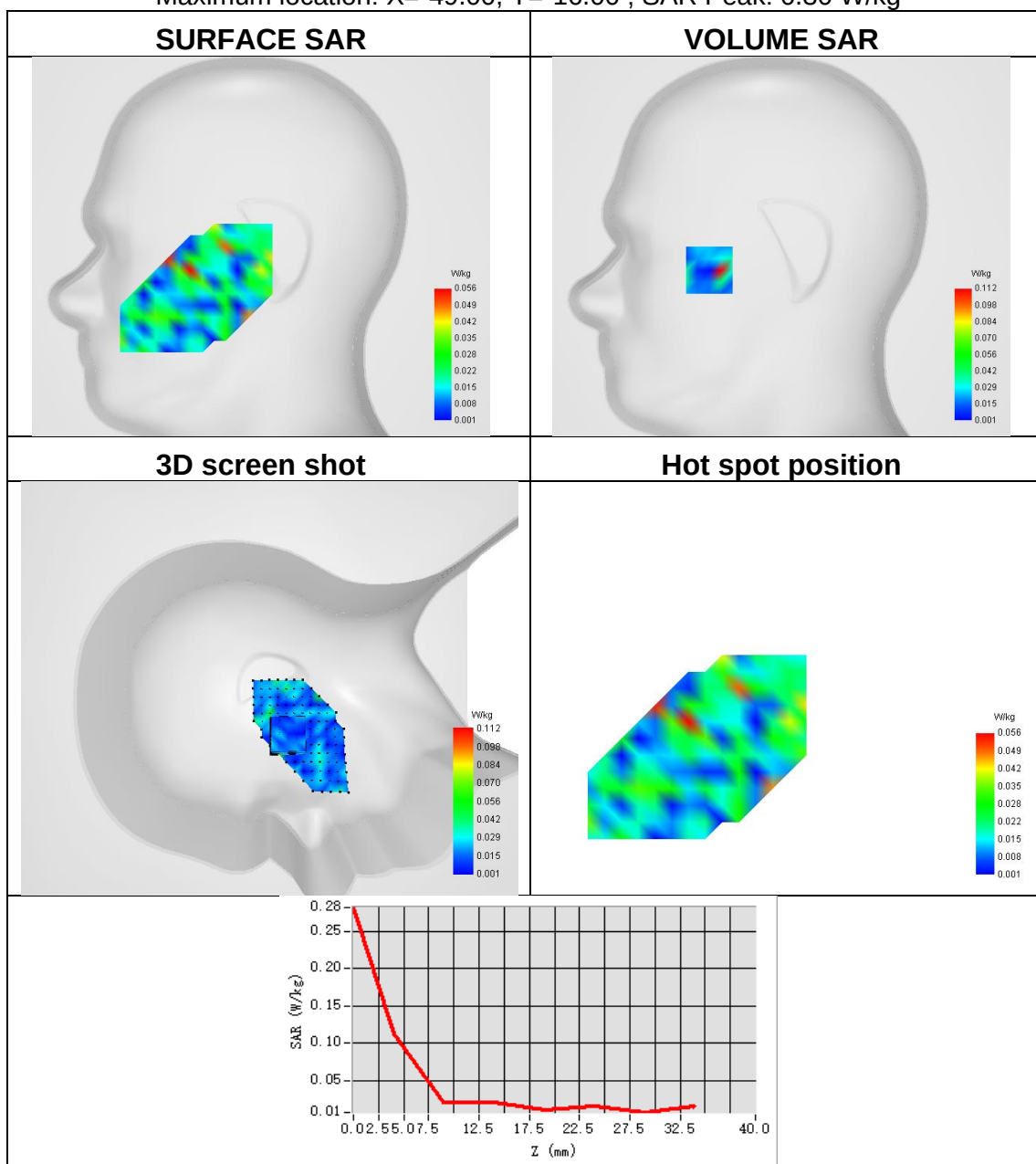
Maximum location: X=-16.00, Y=-48.00 ; SAR Peak: 0.12 W/kg



Plot 33:

Test Date	2024-09-09
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	ISM MIMO ANT 1
Signal	IEEE 802.11ax-HE20
Frequency	2442
SAR 10g (W/Kg)	0.027
SAR 1g (W/Kg)	0.088

Maximum location: X=-49.00, Y=-16.00 ; SAR Peak: 0.30 W/kg

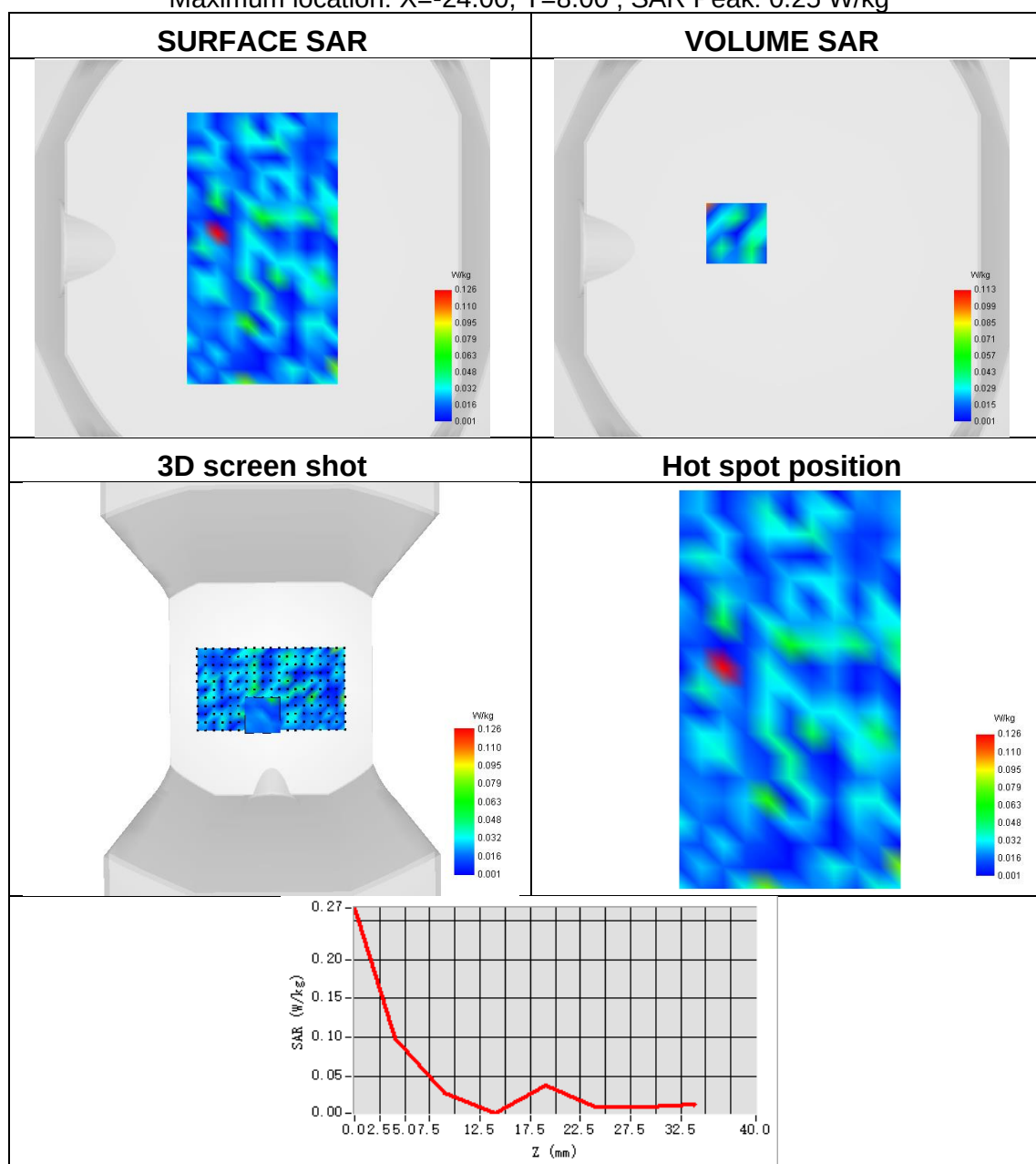




Plot 34:

Test Date	2024-09-09
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Top Edge
Band	ISM MIMO ANT 1
Signal	IEEE 802.11ax-HE20
Frequency	2442
SAR 10g (W/Kg)	0.021
SAR 1g (W/Kg)	0.039

Maximum location: X=-24.00, Y=8.00 ; SAR Peak: 0.25 W/kg

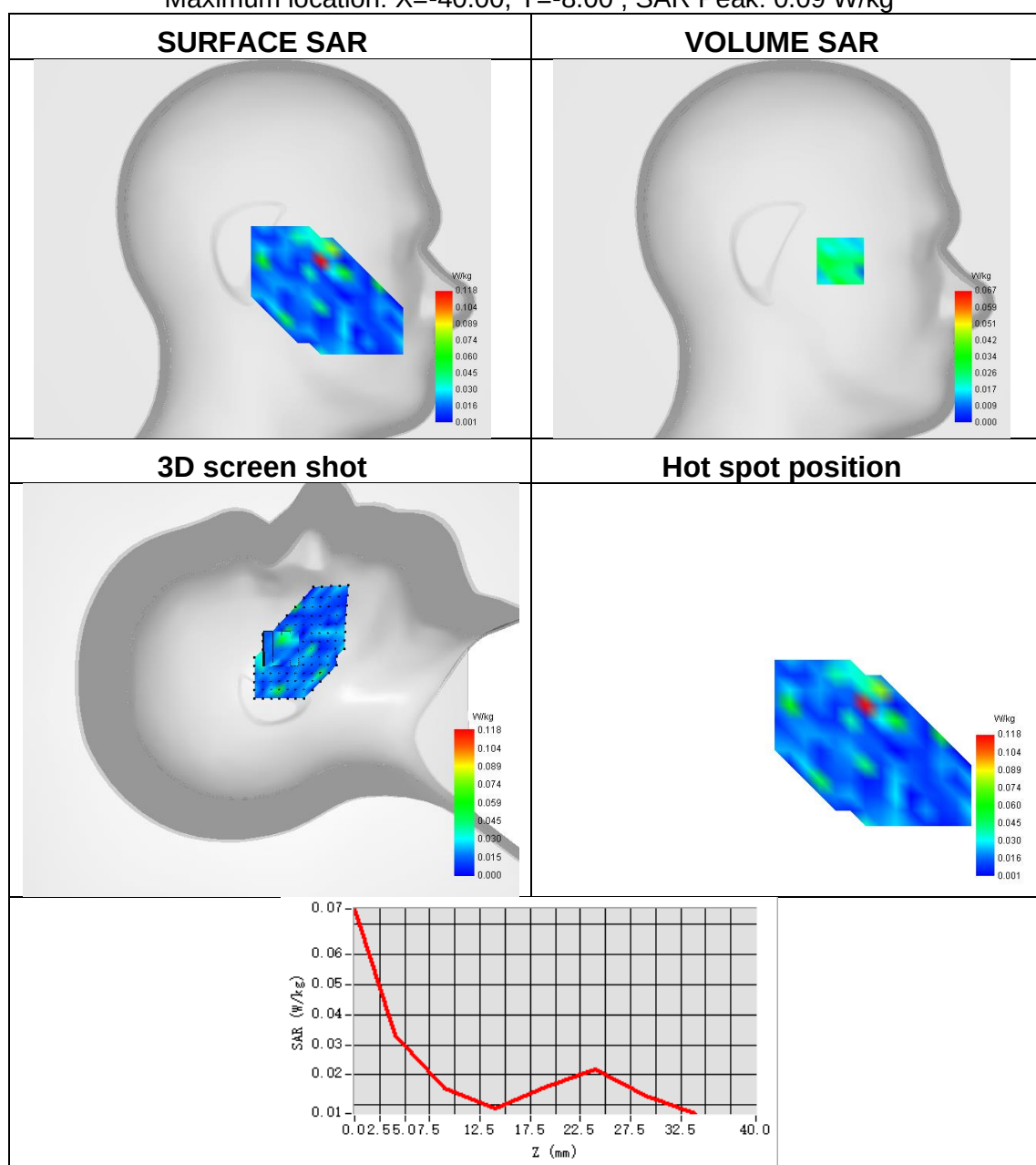




Plot 35:

Test Date	2024-09-09
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	ISM MIMO ANT 2
Signal	IEEE 802.11ax-HE20
Frequency	2442
SAR 10g (W/Kg)	0.018
SAR 1g (W/Kg)	0.035

Maximum location: X=-40.00, Y=-8.00 ; SAR Peak: 0.09 W/kg

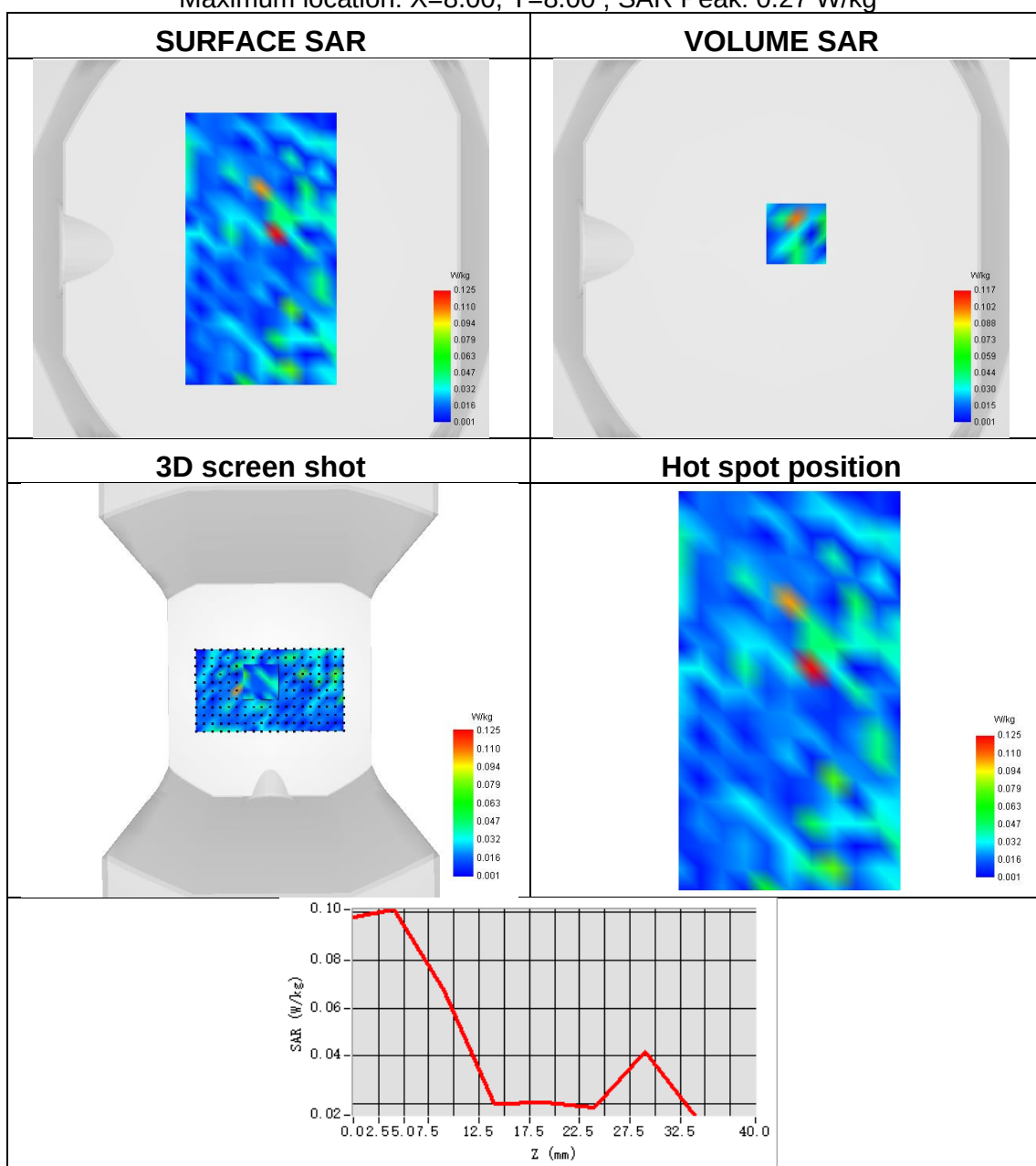




Plot 36:

Test Date	2024-09-09
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Top Edge
Band	ISM MIMO ANT 2
Signal	IEEE 802.11ax-HE20
Frequency	2442
SAR 10g (W/Kg)	0.029
SAR 1g (W/Kg)	0.076

Maximum location: X=8.00, Y=8.00 ; SAR Peak: 0.27 W/kg

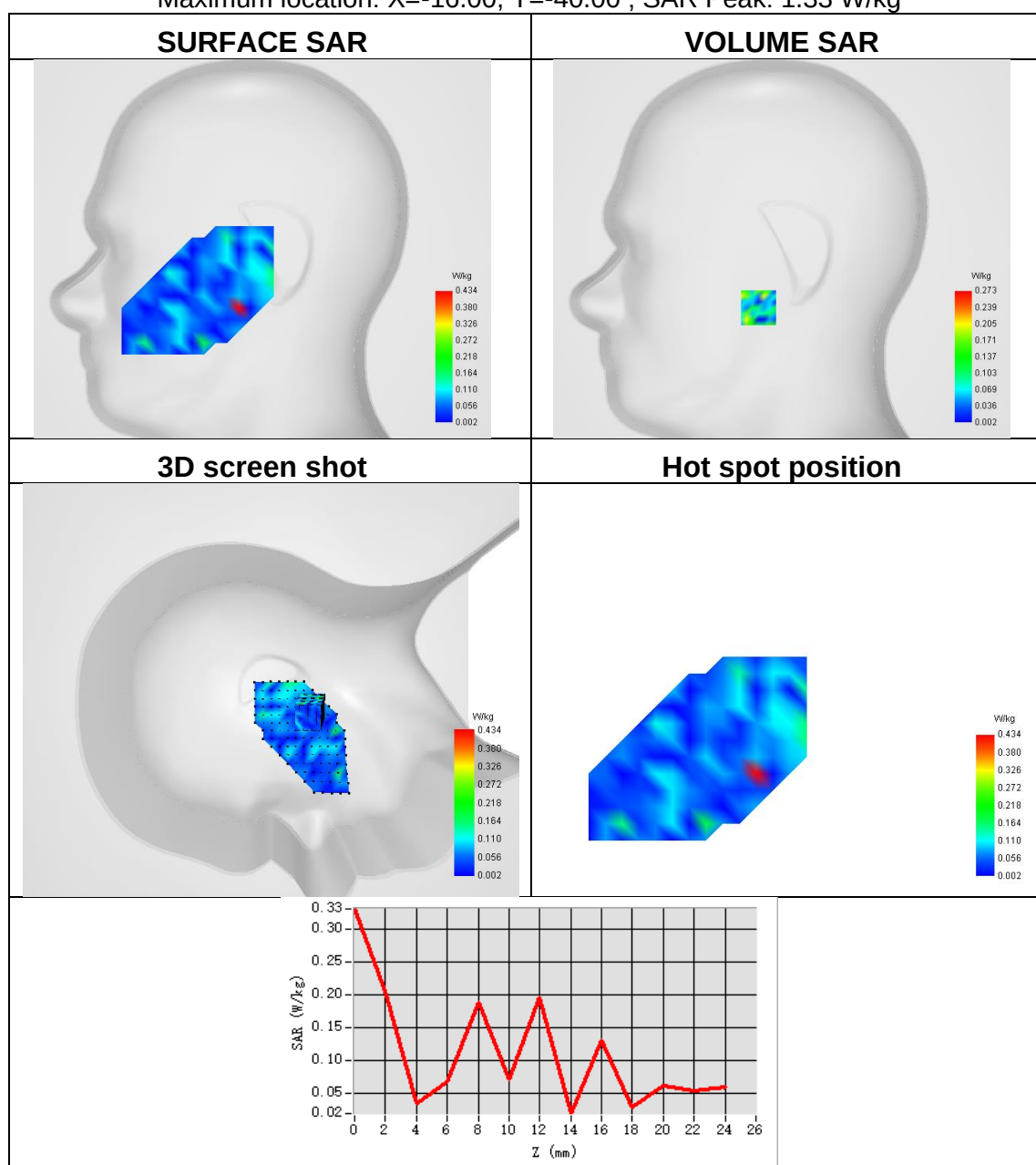




Plot 37:

Test Date	2024-09-11
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Right head
Device Position	Cheek
Band	U-NII-1 ANT 1
Signal	IEEE 802.11a
Frequency	5180
SAR 10g (W/Kg)	0.049
SAR 1g (W/Kg)	0.088

Maximum location: X=-16.00, Y=-40.00 ; SAR Peak: 1.33 W/kg

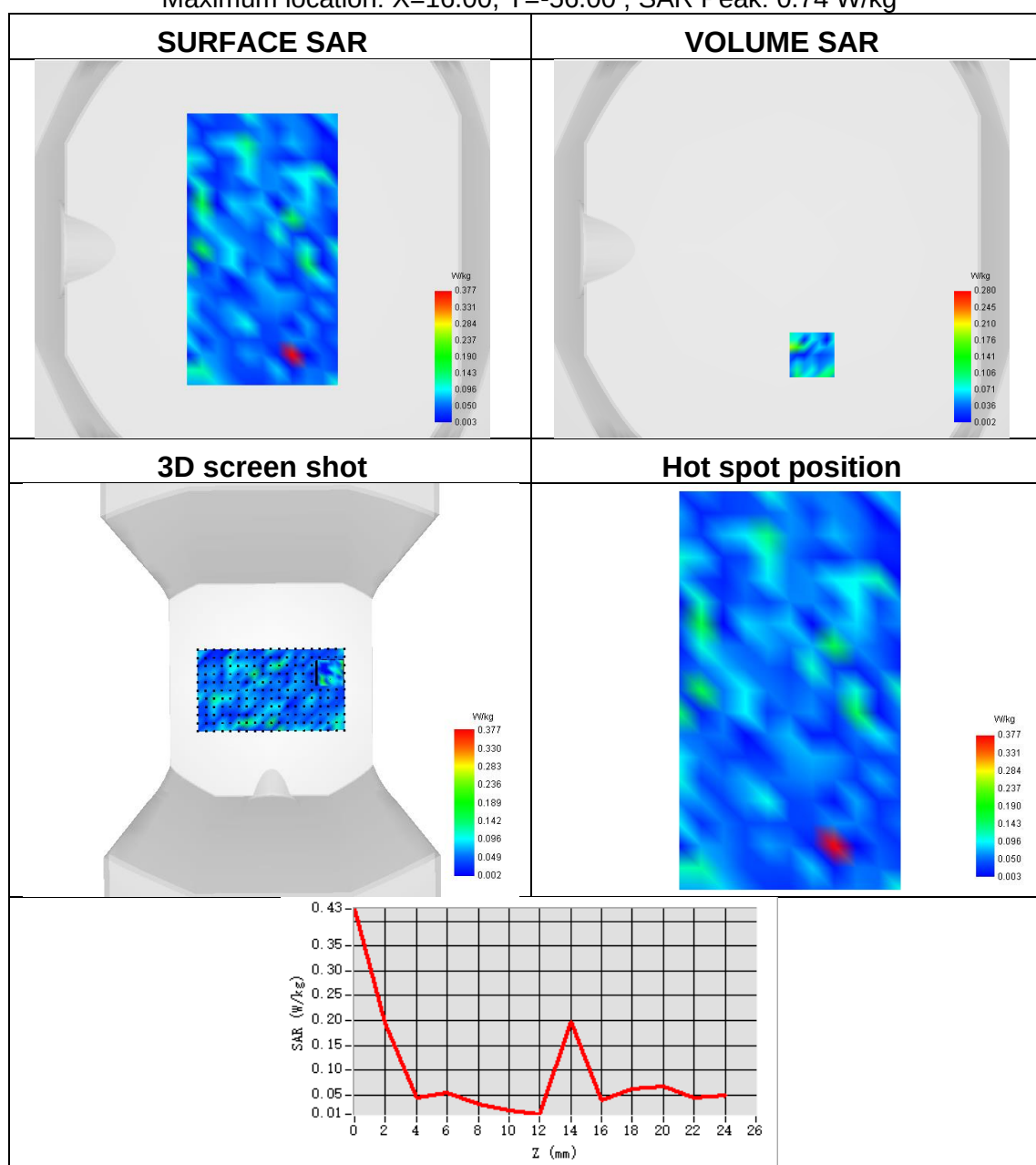




Plot 38:

Test Date	2024-09-11
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Top Edge
Band	U-NII-1 ANT 1
Signal	IEEE 802.11a
Frequency	5180
SAR 10g (W/Kg)	0.065
SAR 1g (W/Kg)	0.129

Maximum location: X=16.00, Y=-56.00 ; SAR Peak: 0.74 W/kg

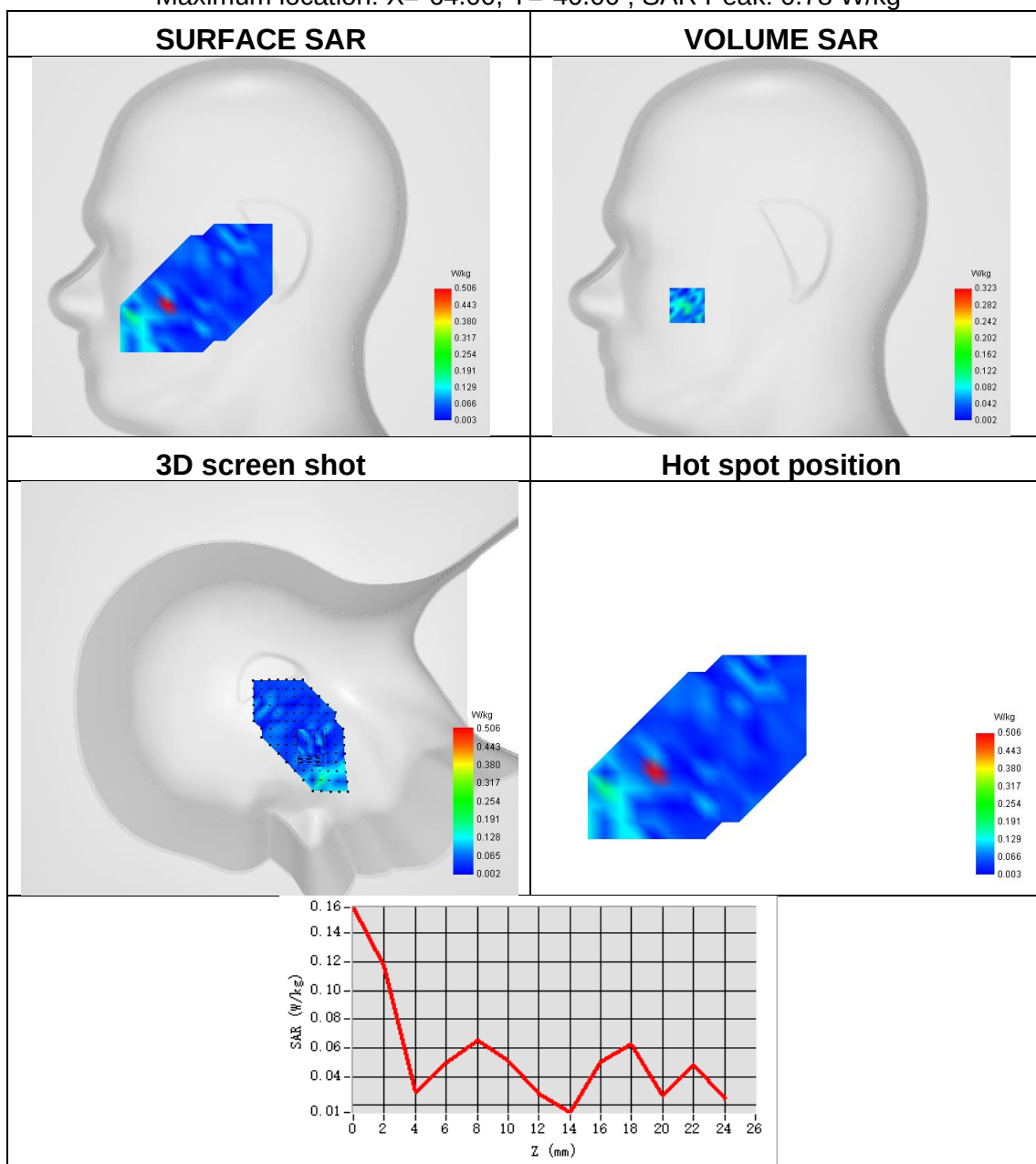




Plot 39:

Test Date	2024-09-11
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Right head
Device Position	Cheek
Band	U-NII-1 ANT 2
Signal	IEEE 802.11a
Frequency	5180
SAR 10g (W/Kg)	0.047
SAR 1g (W/Kg)	0.128

Maximum location: X=-64.00, Y=-40.00 ; SAR Peak: 0.78 W/kg

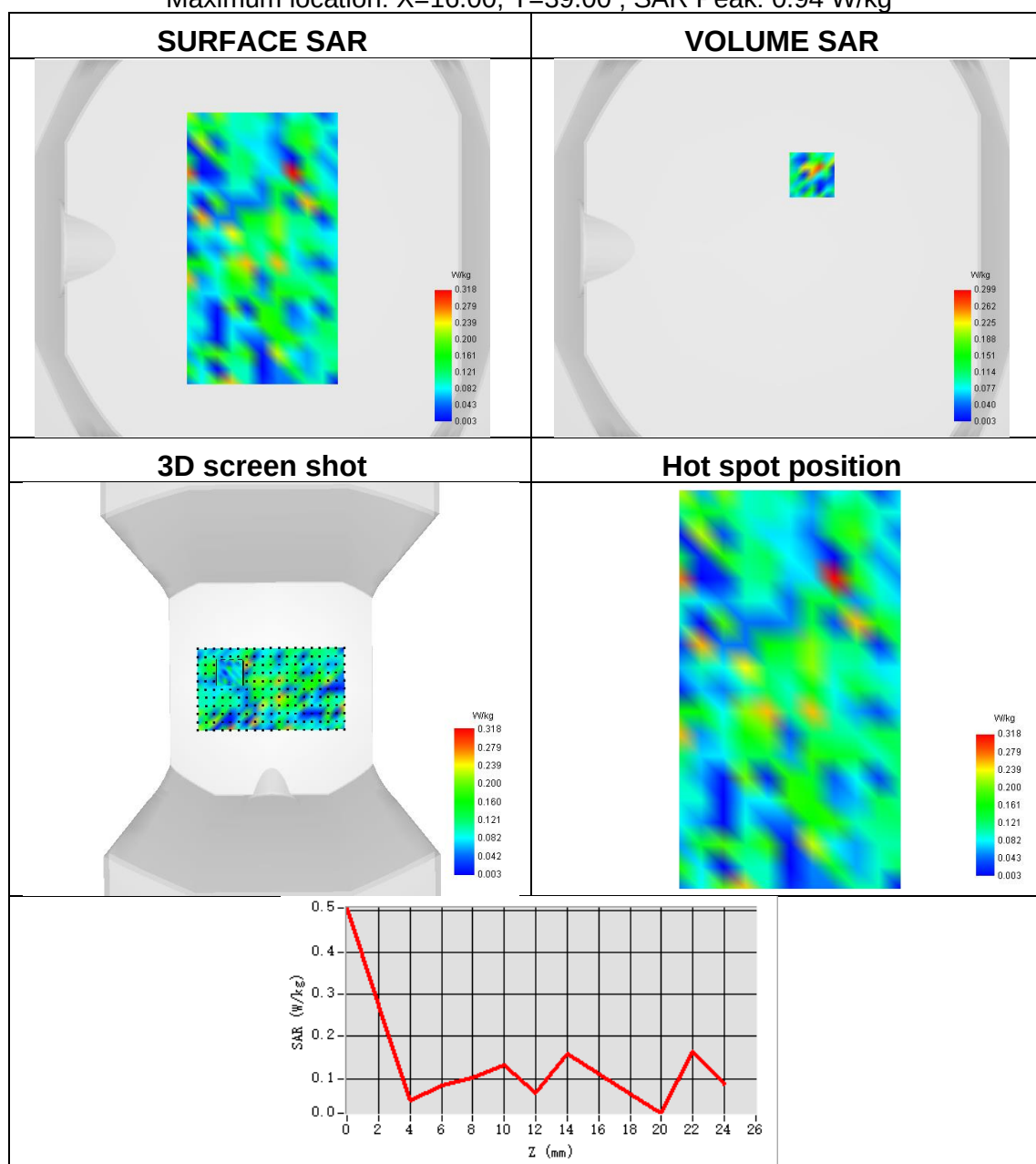




Plot 40:

Test Date	2024-09-11
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Top Edge
Band	U-NII-1 ANT 2
Signal	IEEE 802.11a
Frequency	5180
SAR 10g (W/Kg)	0.081
SAR 1g (W/Kg)	0.156

Maximum location: X=16.00, Y=39.00 ; SAR Peak: 0.94 W/kg

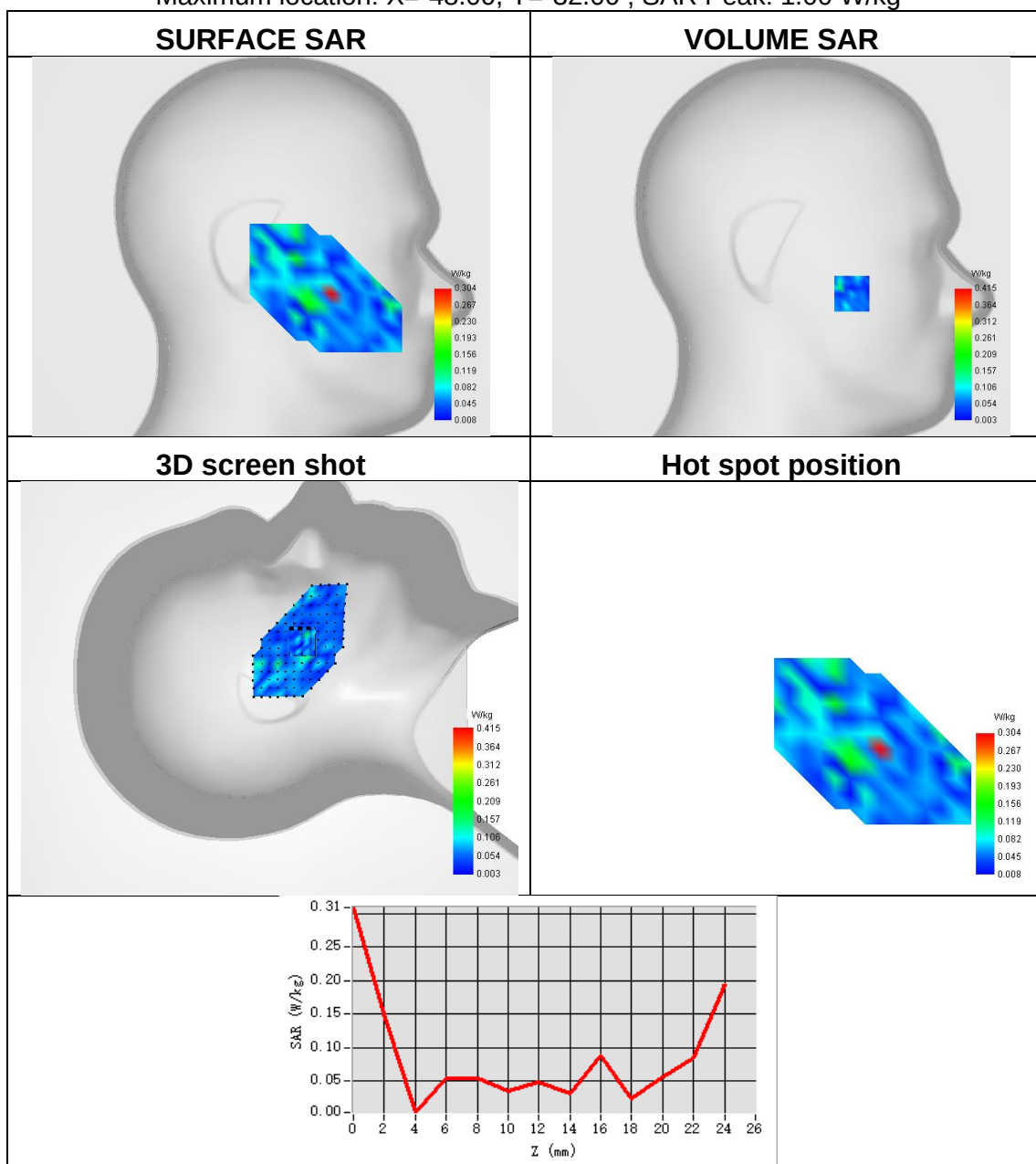




Plot 41:

Test Date	2024-09-11
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Right head
Device Position	Cheek
Band	U-NII-1MIMO ANT 1
Signal	IEEE 802.11ax80
Frequency	5210
SAR 10g (W/Kg)	0.047
SAR 1g (W/Kg)	0.156

Maximum location: X=-48.00, Y=-32.00 ; SAR Peak: 1.00 W/kg

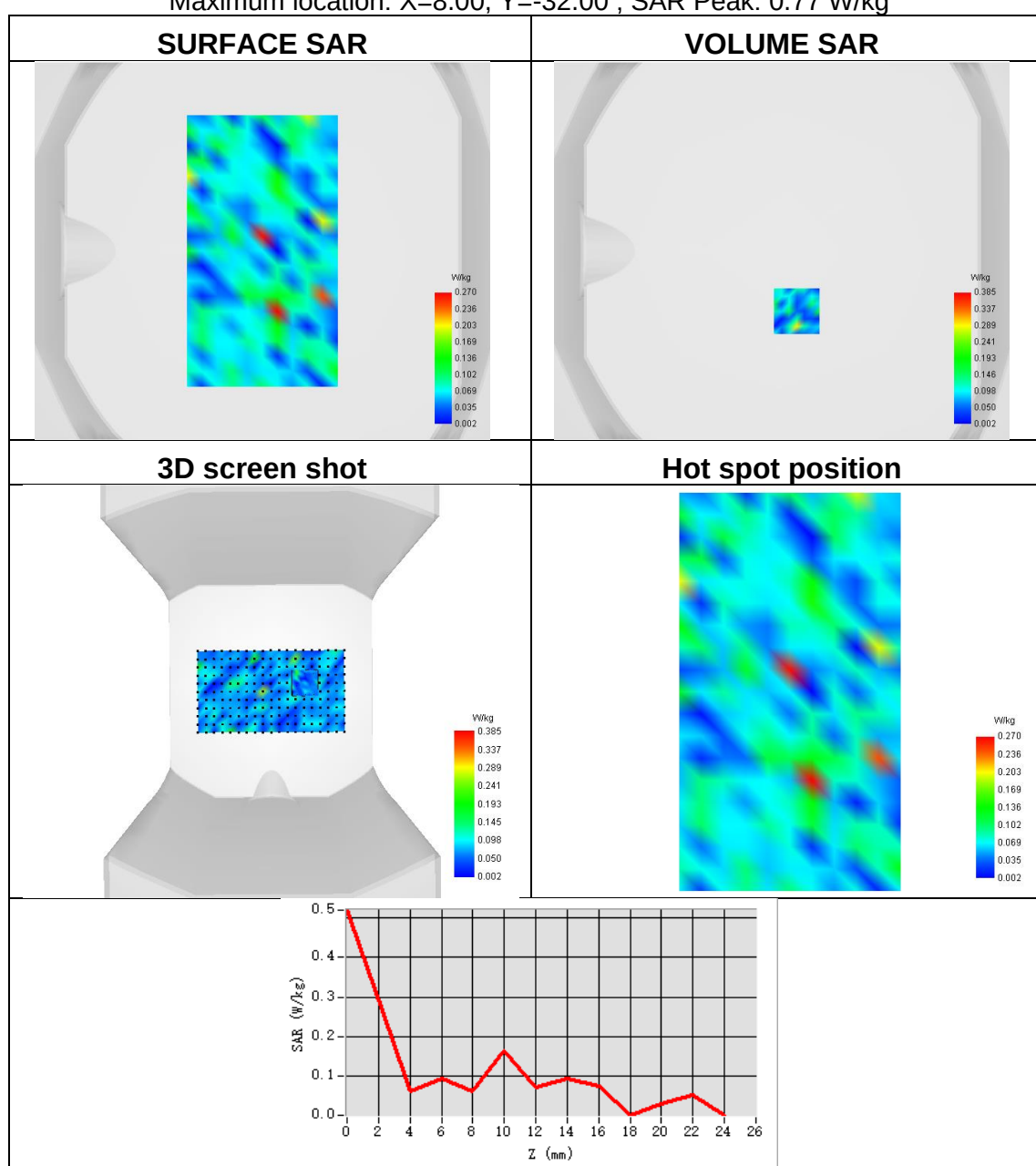




Plot 42:

Test Date	2024-09-11
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Top Edge
Band	U-NII-1MIMO ANT 1
Signal	IEEE 802.11ax80
Frequency	5210
SAR 10g (W/Kg)	0.055
SAR 1g (W/Kg)	0.127

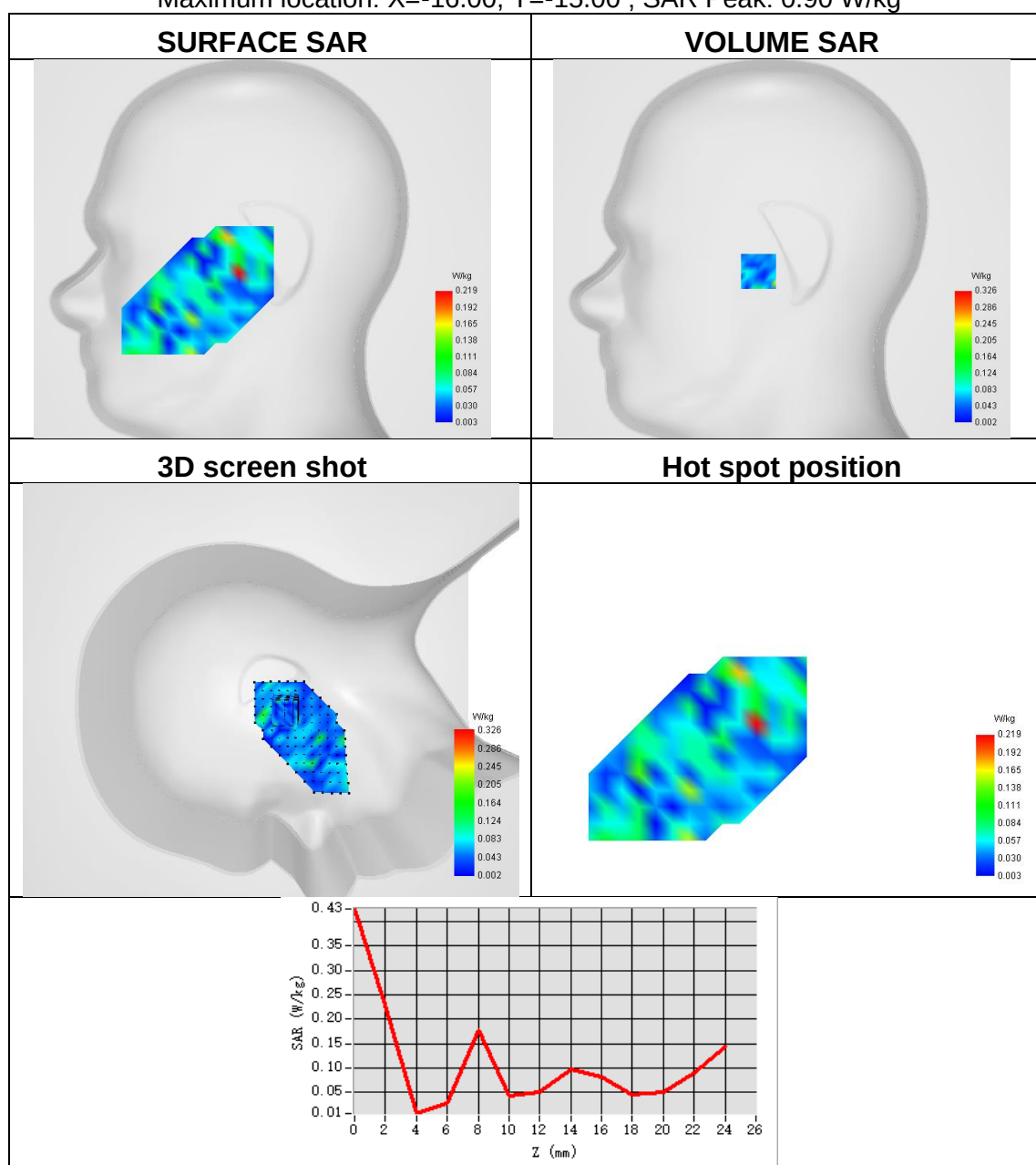
Maximum location: X=8.00, Y=-32.00 ; SAR Peak: 0.77 W/kg



Plot 43:

Test Date	2024-09-11
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Right head
Device Position	Cheek
Band	U-NII-1MIMO ANT 2
Signal	IEEE 802.11ax80
Frequency	5210
SAR 10g (W/Kg)	0.045
SAR 1g (W/Kg)	0.080

Maximum location: X=-16.00, Y=-15.00 ; SAR Peak: 0.90 W/kg

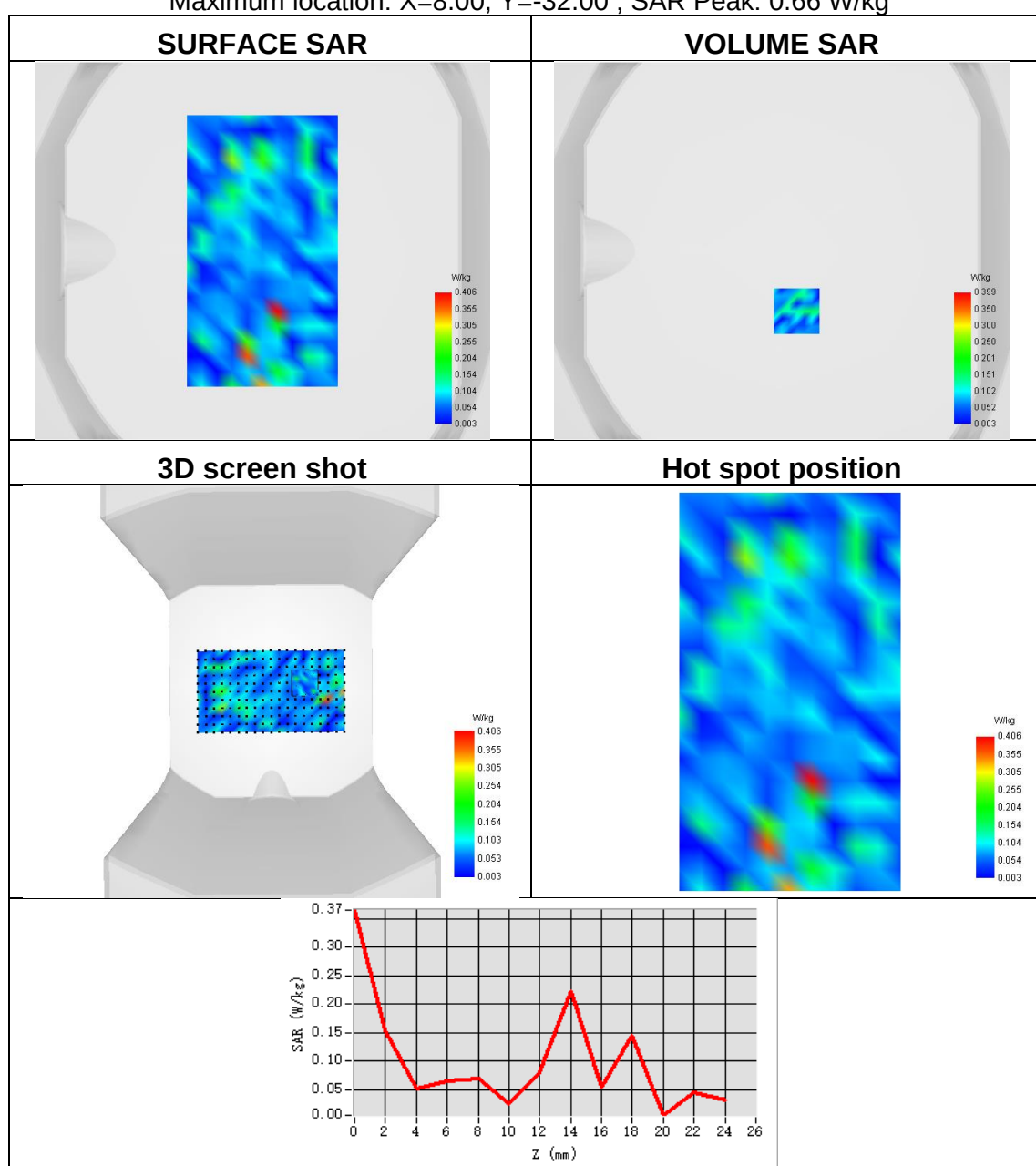




Plot 44:

Test Date	2024-09-11
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Top Edge
Band	U-NII-1MIMO ANT 2
Signal	IEEE 802.11ax80
Frequency	5210
SAR 10g (W/Kg)	0.061
SAR 1g (W/Kg)	0.115

Maximum location: X=8.00, Y=-32.00 ; SAR Peak: 0.66 W/kg

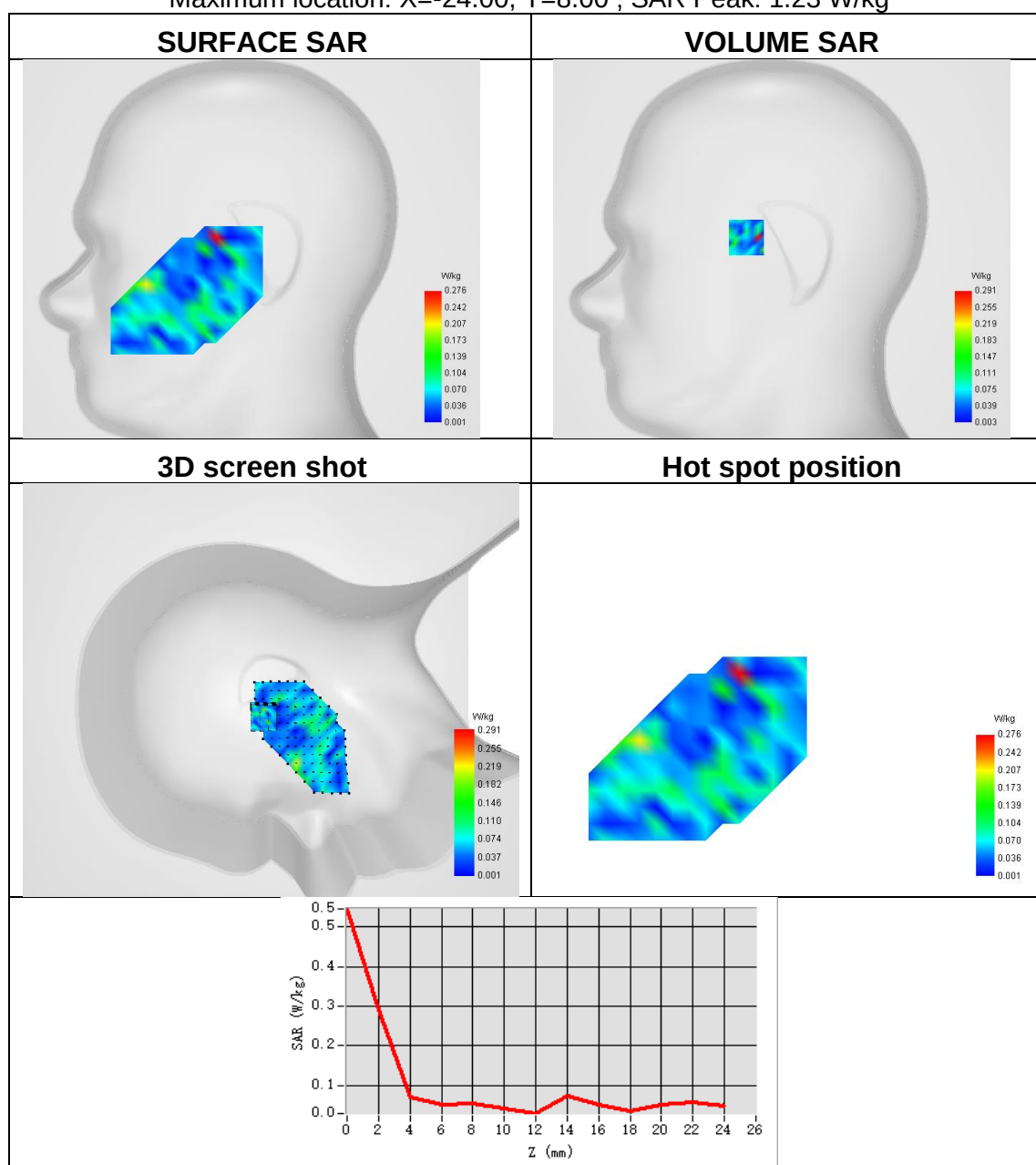




Plot 45:

Test Date	2024-09-12
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Right head
Device Position	Cheek
Band	U-NII-2 ANT 1
Signal	IEEE 802.11a
Frequency	5320
SAR 10g (W/Kg)	0.054
SAR 1g (W/Kg)	0.155

Maximum location: X=-24.00, Y=8.00 ; SAR Peak: 1.23 W/kg

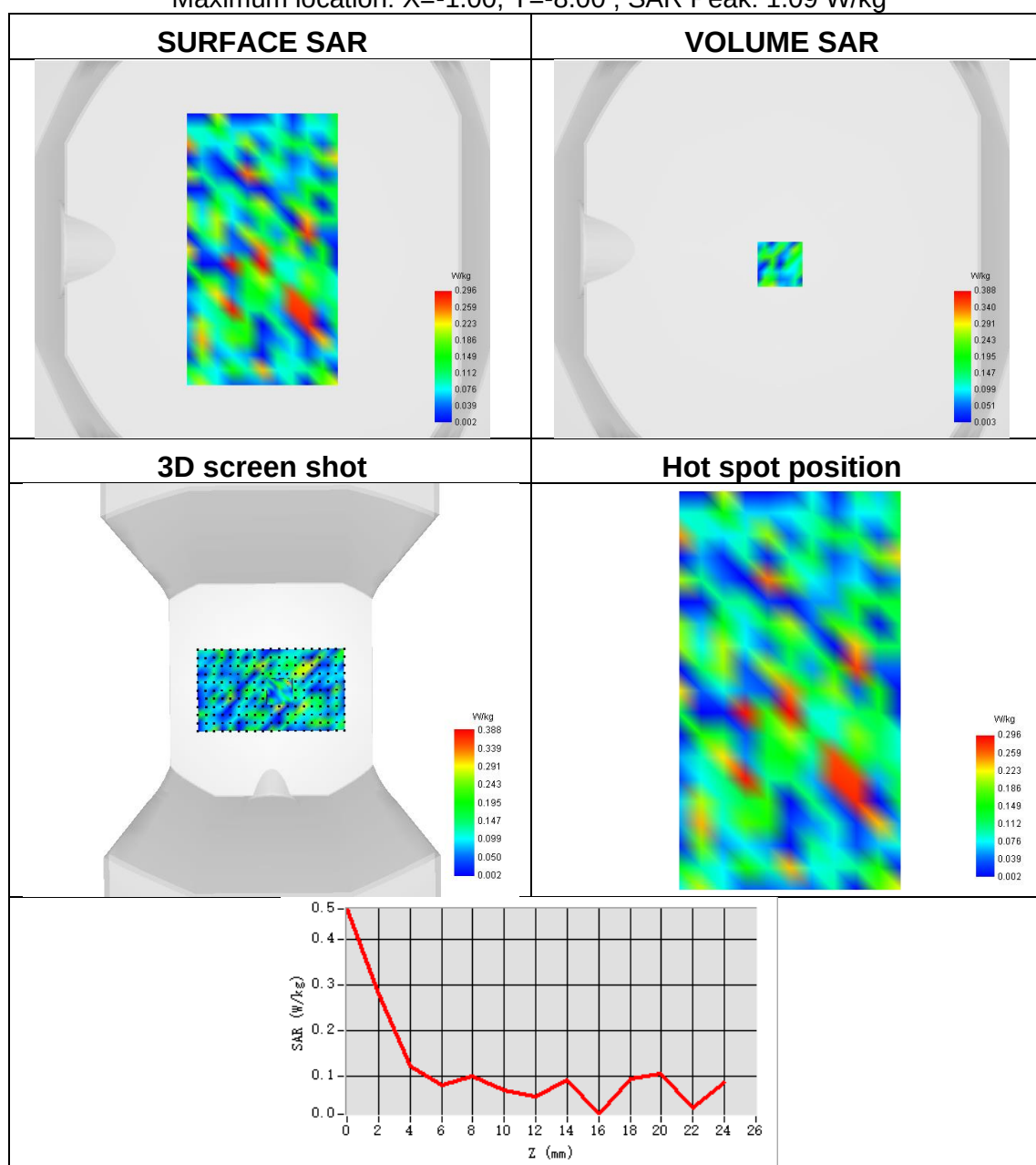




Plot 46:

Test Date	2024-09-12
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Top Edge
Band	U-NII-2 ANT 1
Signal	IEEE 802.11a
Frequency	5320
SAR 10g (W/Kg)	0.082
SAR 1g (W/Kg)	0.135

Maximum location: X=-1.00, Y=-8.00 ; SAR Peak: 1.09 W/kg

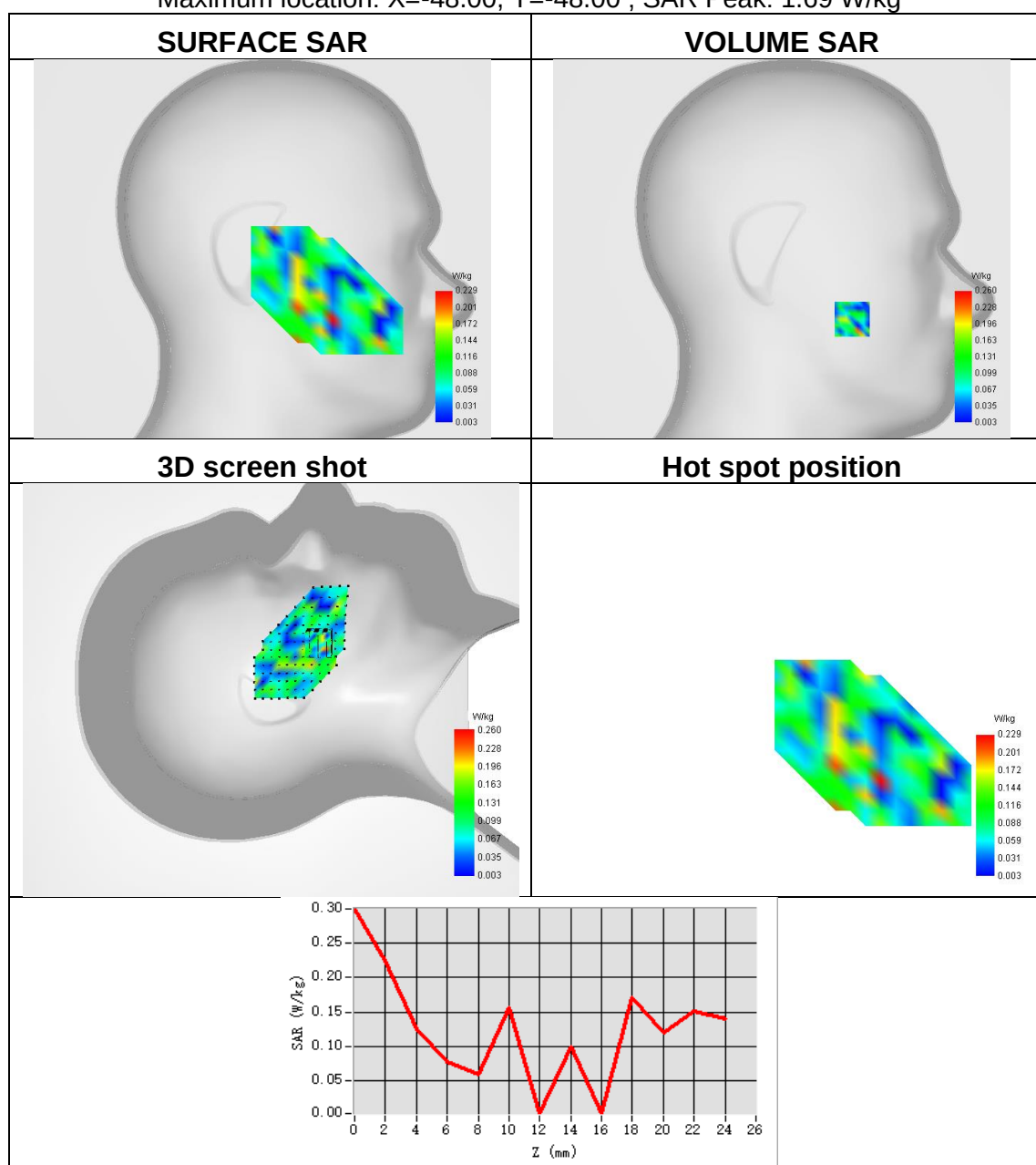




Plot 47:

Test Date	2024-09-12
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Left head
Device Position	Cheek
Band	U-NII-2 ANT 2
Signal	IEEE 802.11a
Frequency	5320
SAR 10g (W/Kg)	0.082
SAR 1g (W/Kg)	0.274

Maximum location: X=-48.00, Y=-48.00 ; SAR Peak: 1.69 W/kg

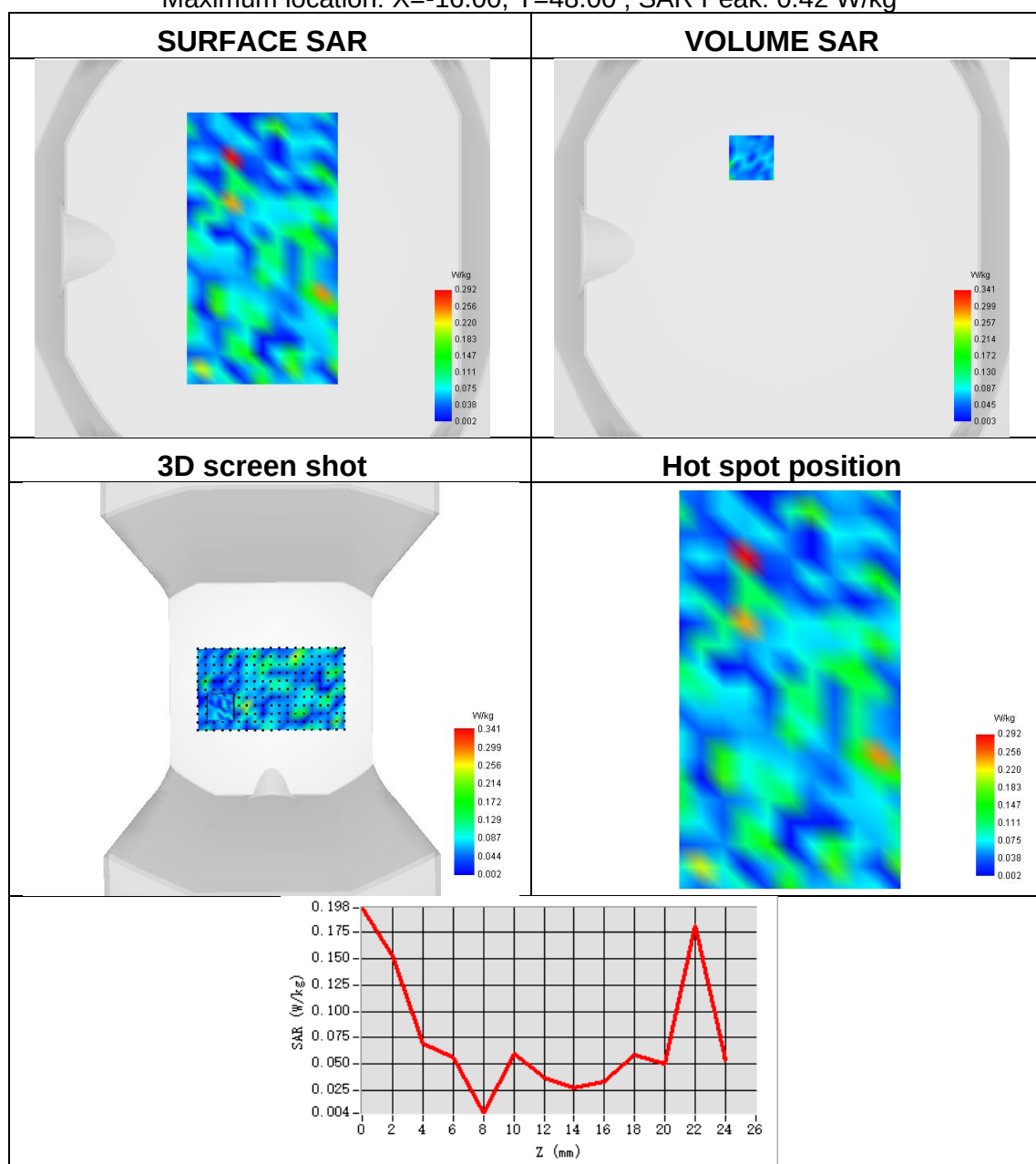




Plot 48:

Test Date	2024-09-12
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Top Edge
Band	U-NII-2 ANT 2
Signal	IEEE 802.11a
Frequency	5320
SAR 10g (W/Kg)	0.042
SAR 1g (W/Kg)	0.083

Maximum location: X=-16.00, Y=48.00 ; SAR Peak: 0.42 W/kg

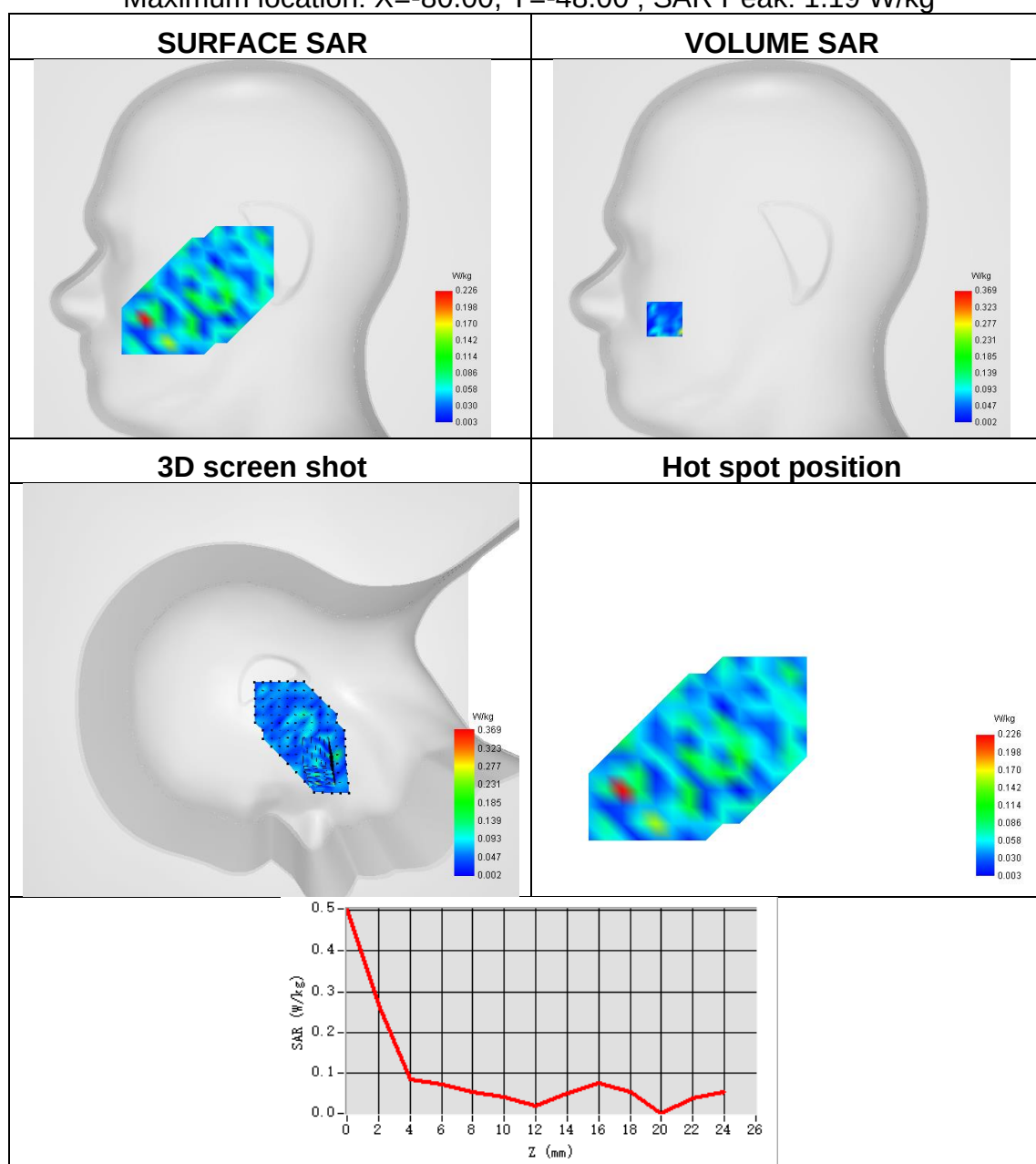




Plot 49:

Test Date	2024-09-12
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Right head
Device Position	Cheek
Band	U-NII-2 MIMO ANT 1
Signal	IEEE 802.11ax80
Frequency	5320
SAR 10g (W/Kg)	0.043
SAR 1g (W/Kg)	0.086

Maximum location: X=-80.00, Y=-48.00 ; SAR Peak: 1.19 W/kg

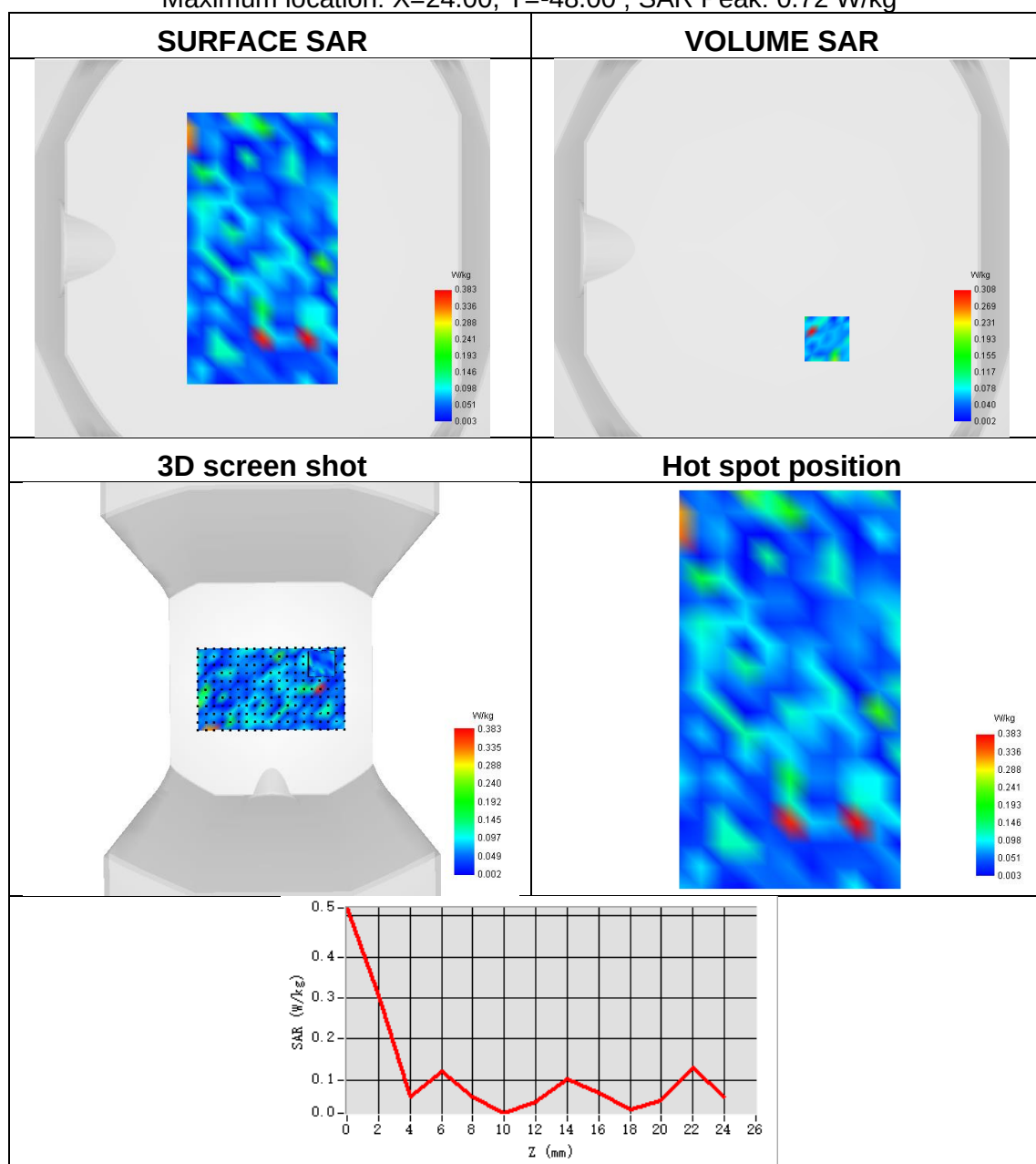




Plot 50:

Test Date	2024-09-12
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Top Edge
Band	U-NII-2 MIMO ANT 1
Signal	IEEE 802.11ax80
Frequency	5290
SAR 10g (W/Kg)	0.047
SAR 1g (W/Kg)	0.106

Maximum location: X=24.00, Y=-48.00 ; SAR Peak: 0.72 W/kg

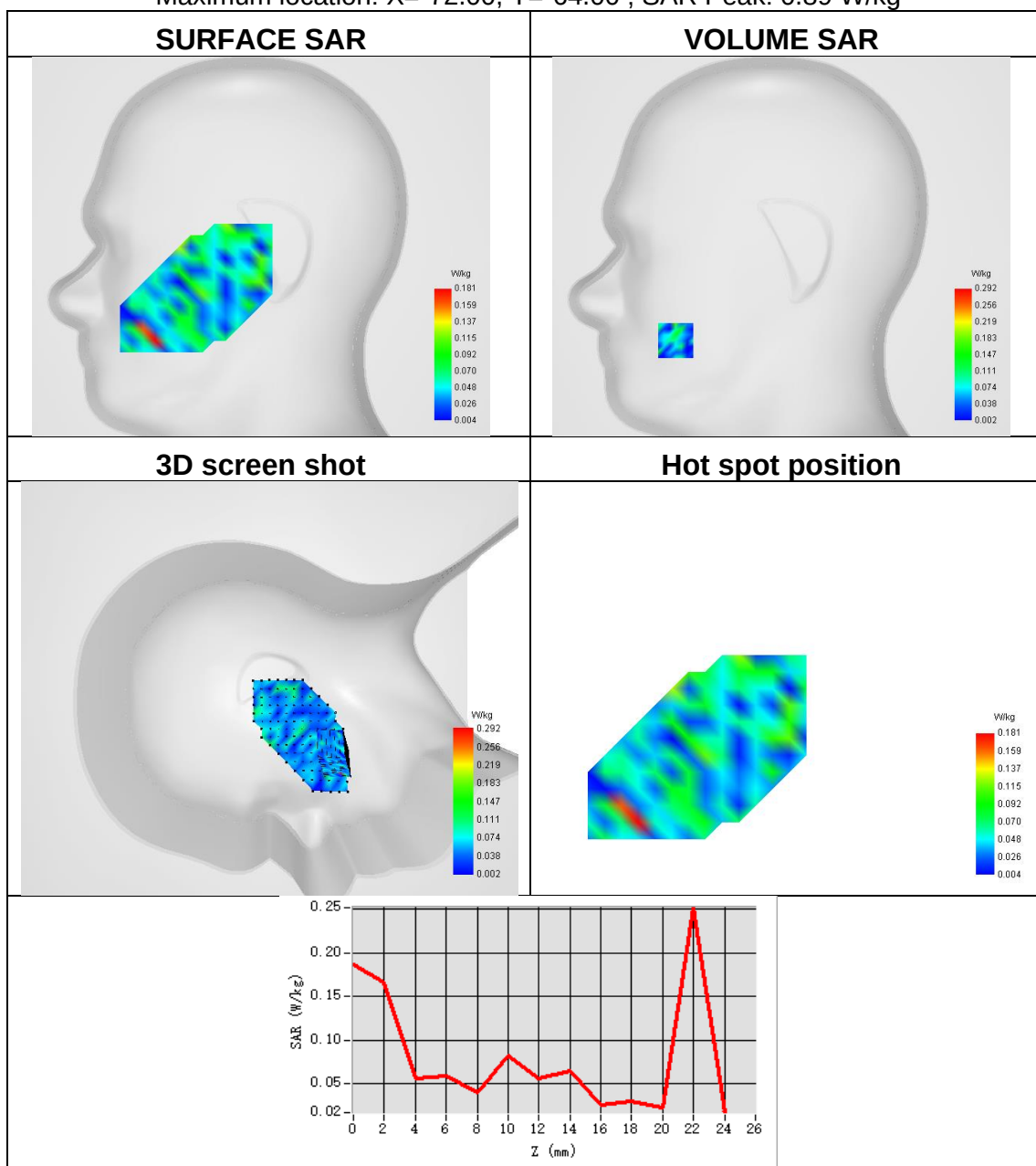




Plot 51:

Test Date	2024-09-12
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Right head
Device Position	Cheek
Band	U-NII-2 MIMO ANT 2
Signal	IEEE 802.11ax80
Frequency	5290
SAR 10g (W/Kg)	0.054
SAR 1g (W/Kg)	0.133

Maximum location: X=-72.00, Y=-64.00 ; SAR Peak: 0.89 W/kg

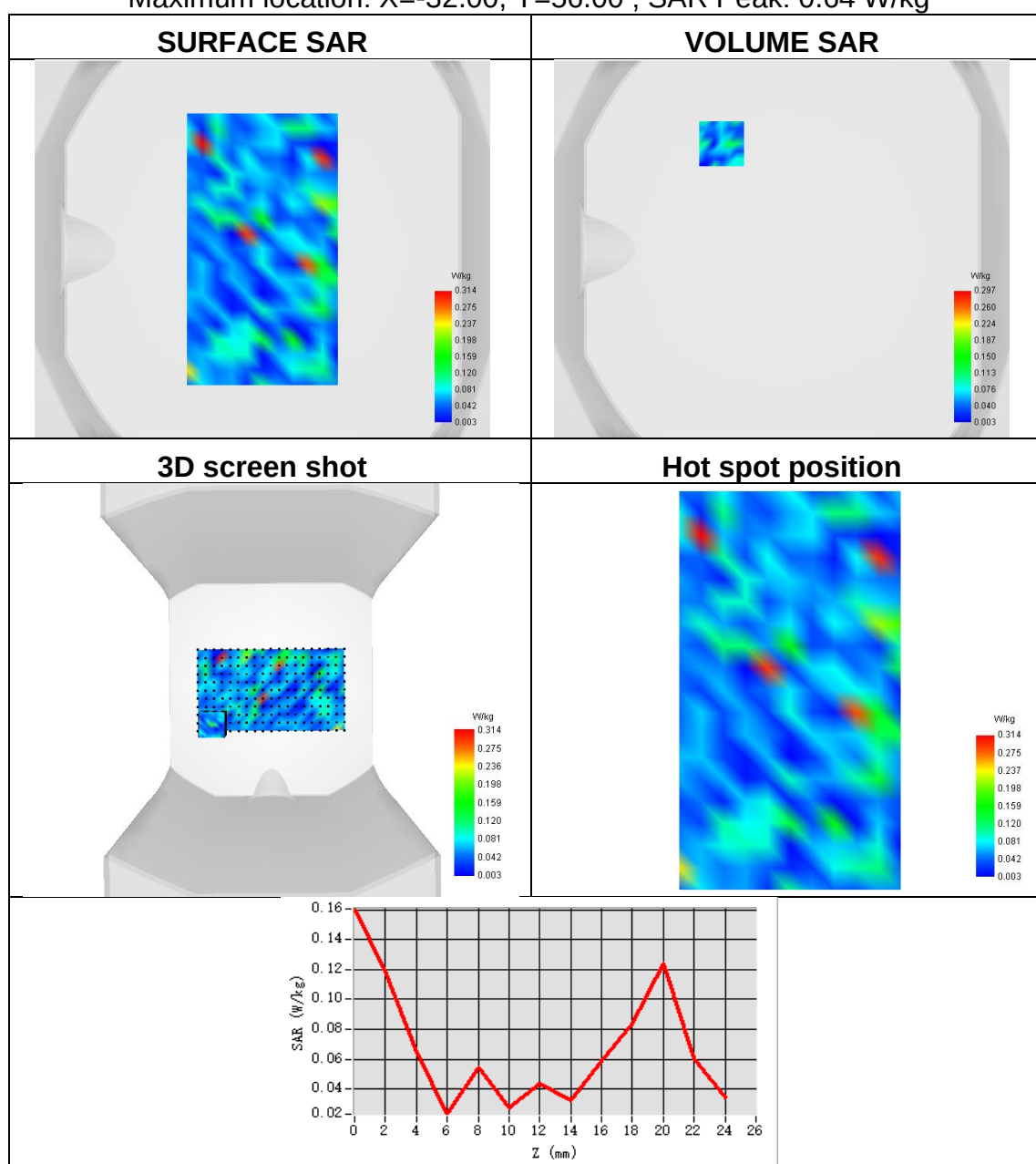




Plot 52:

Test Date	2024-09-12
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Top Edge
Band	U-NII-2 MIMO ANT 2
Signal	IEEE 802.11ax80
Frequency	5290
SAR 10g (W/Kg)	0.053
SAR 1g (W/Kg)	0.113

Maximum location: X=-32.00, Y=56.00 ; SAR Peak: 0.64 W/kg

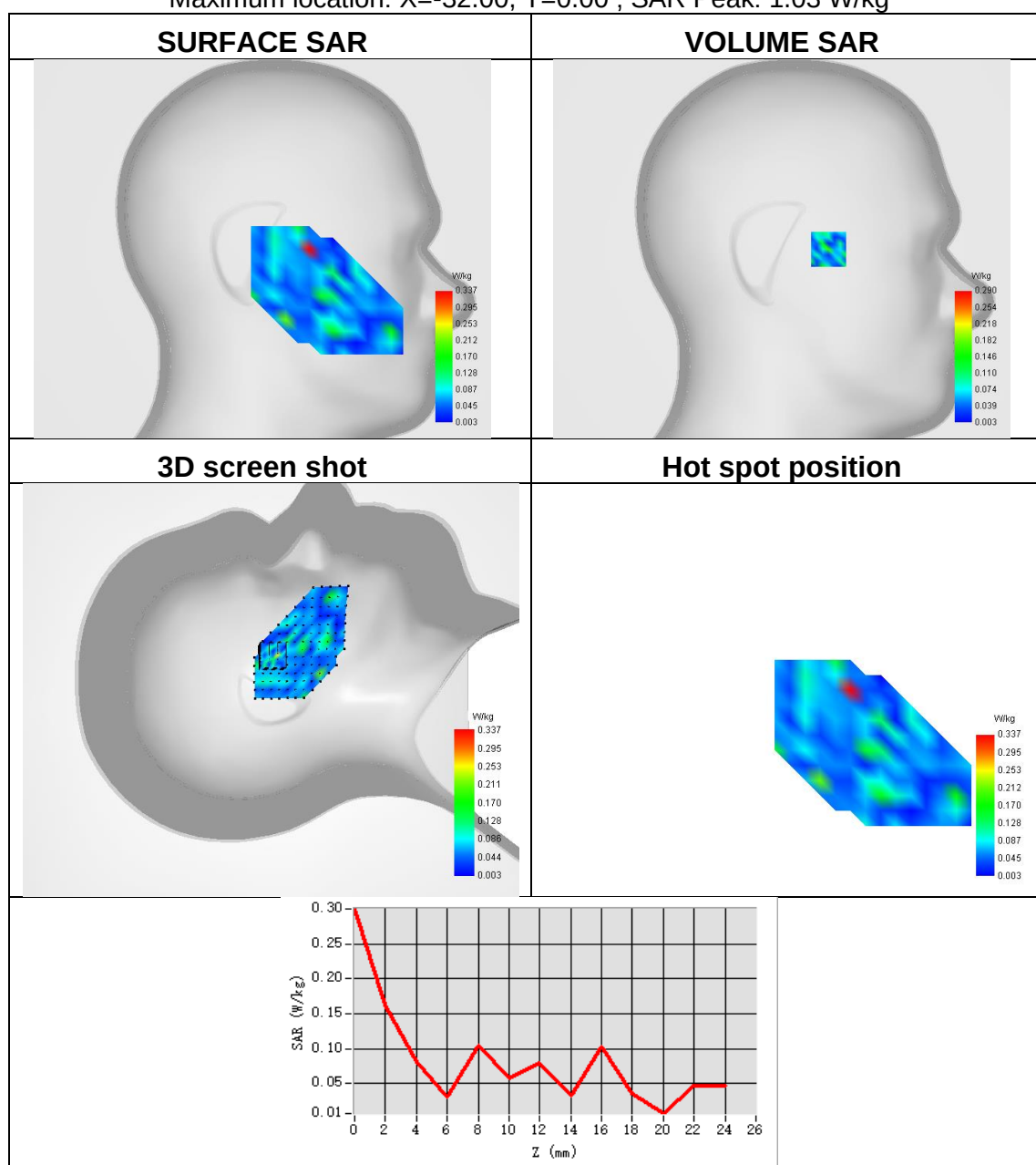




Plot 53:

Test Date	2024-09-13
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Left head
Device Position	Cheek
Band	U-NII-2 ANT 1
Signal	IEEE 802.11a
Frequency	5500
SAR 10g (W/Kg)	0.049
SAR 1g (W/Kg)	0.085

Maximum location: X=-32.00, Y=0.00 ; SAR Peak: 1.03 W/kg

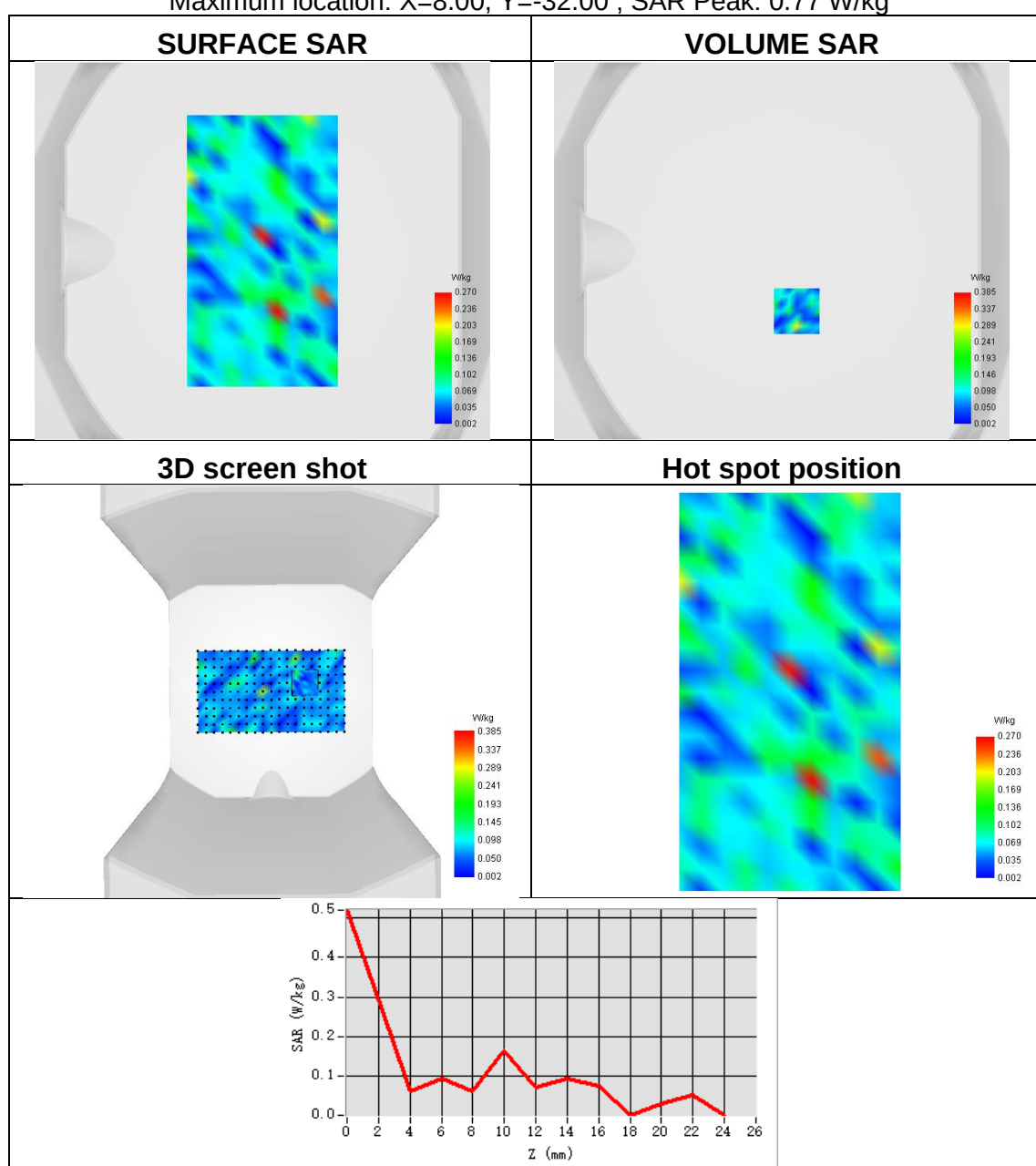




Plot 54:

Test Date	2024-09-13
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Top Edge
Band	U-NII-2 ANT 1
Signal	IEEE 802.11a
Frequency	5500
SAR 10g (W/Kg)	0.055
SAR 1g (W/Kg)	0.127

Maximum location: X=8.00, Y=-32.00 ; SAR Peak: 0.77 W/kg

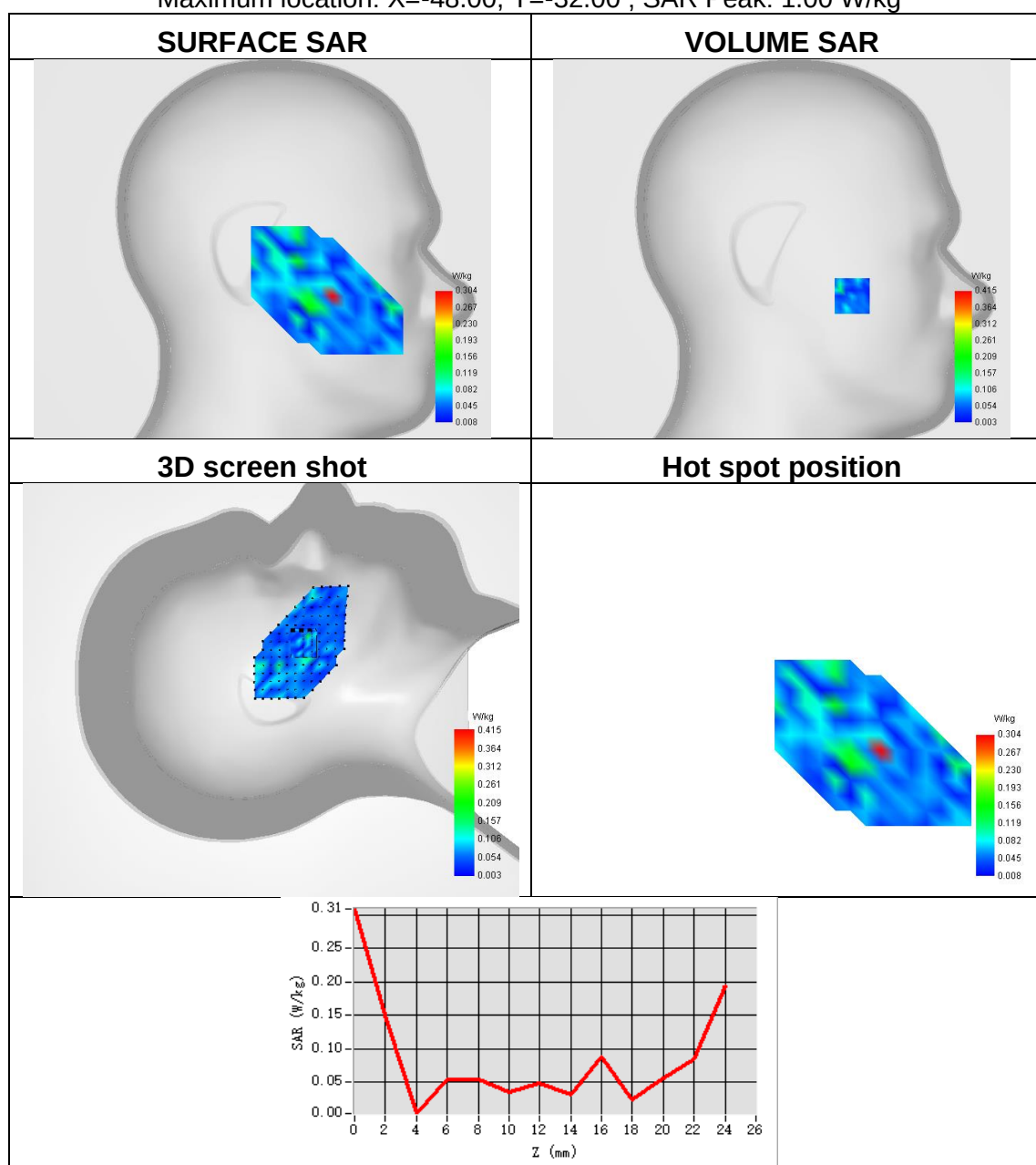




Plot 55:

Test Date	2024-09-13
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Left head
Device Position	Cheek
Band	U-NII-2 ANT 2
Signal	IEEE 802.11a
Frequency	5500
SAR 10g (W/Kg)	0.047
SAR 1g (W/Kg)	0.156

Maximum location: X=-48.00, Y=-32.00 ; SAR Peak: 1.00 W/kg

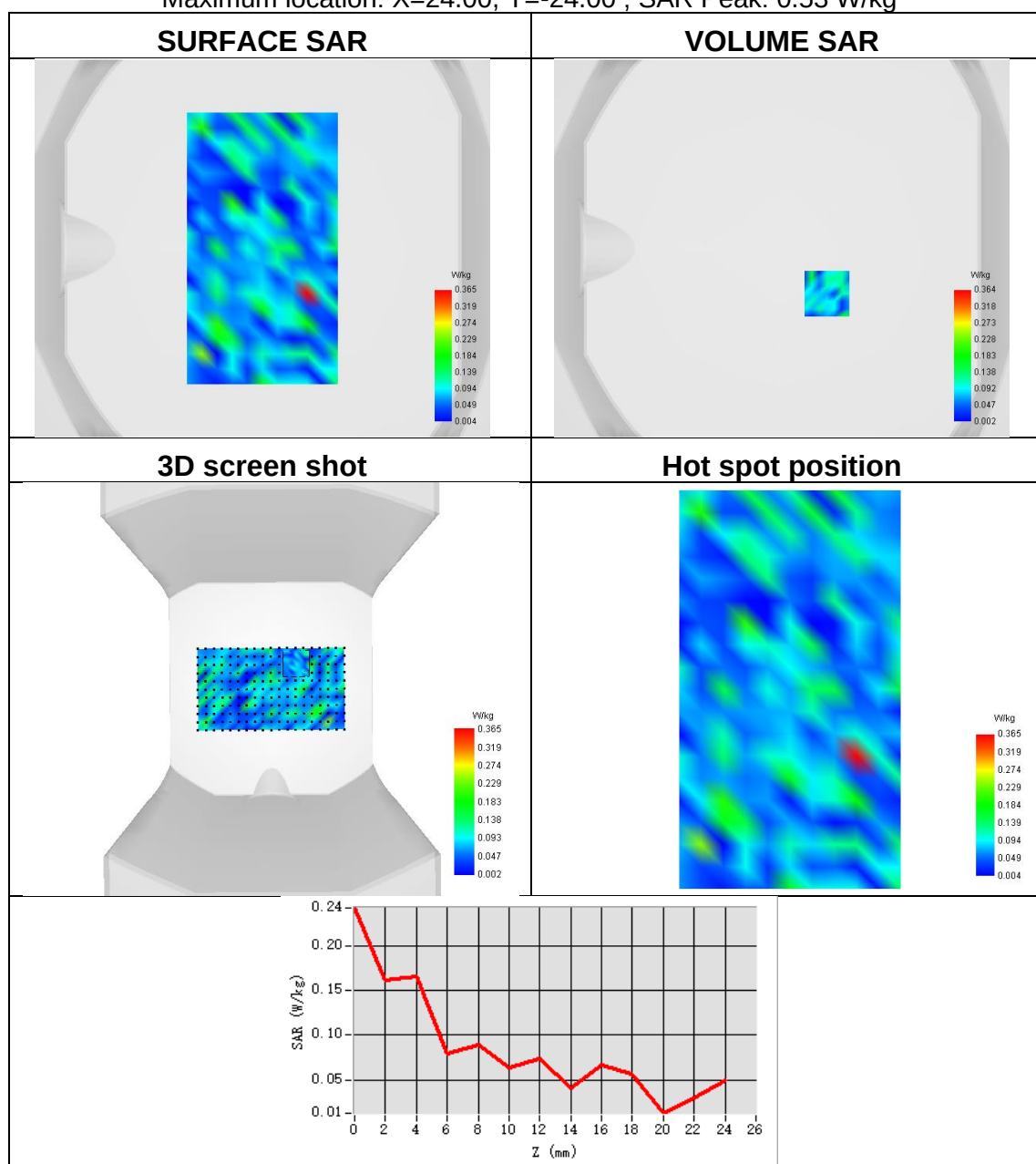




Plot 56:

Test Date	2024-09-13
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Top Edge
Band	U-NII-2 ANT 2
Signal	IEEE 802.11a
Frequency	5500
SAR 10g (W/Kg)	0.051
SAR 1g (W/Kg)	0.093

Maximum location: X=24.00, Y=-24.00 ; SAR Peak: 0.53 W/kg

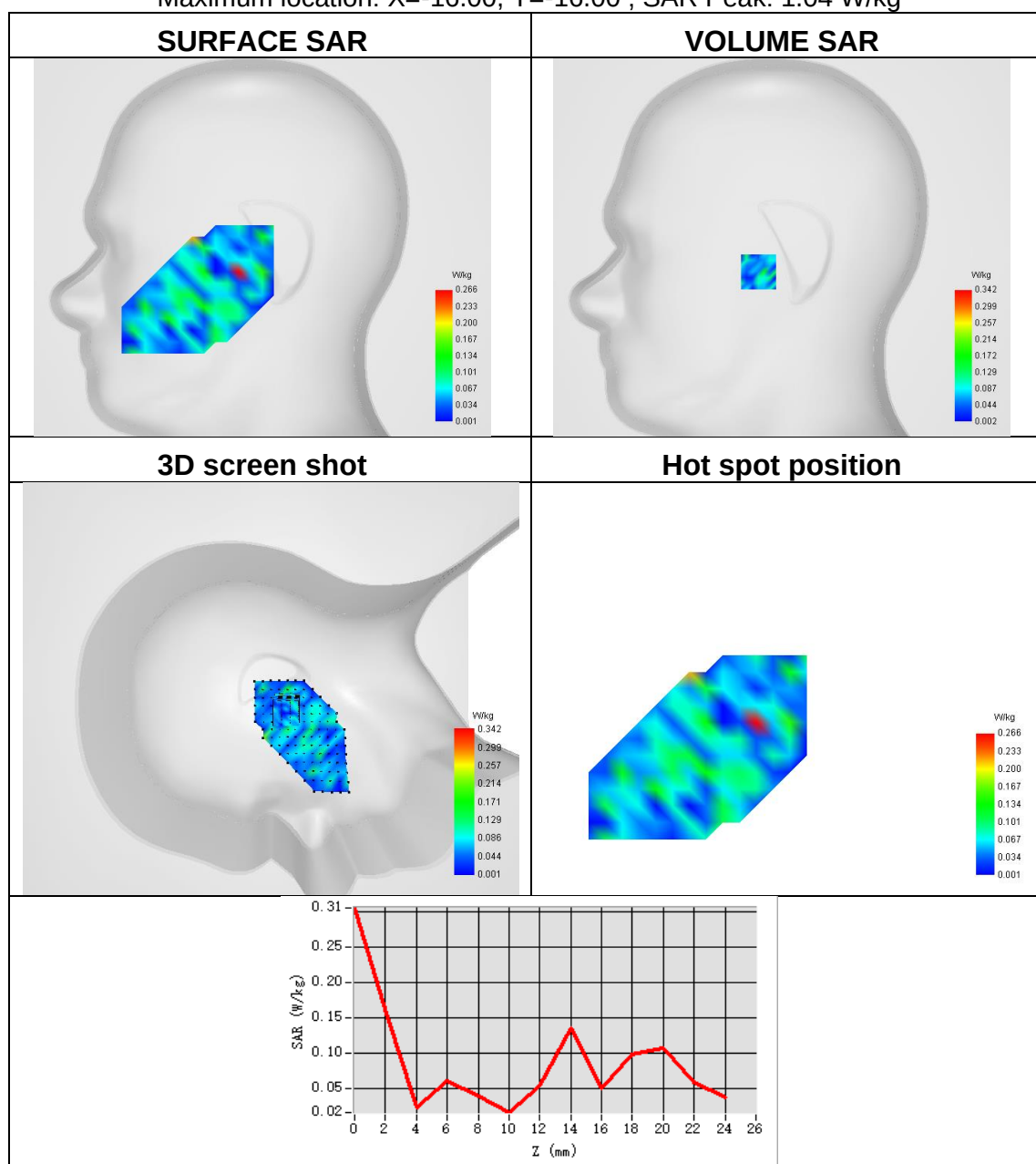




Plot 57:

Test Date	2024-09-13
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Right head
Device Position	Cheek
Band	U-NII-2c MIMO ANT 1
Signal	IEEE 802.11n-HT40
Frequency	5510
SAR 10g (W/Kg)	0.051
SAR 1g (W/Kg)	0.145

Maximum location: X=-16.00, Y=-16.00 ; SAR Peak: 1.04 W/kg

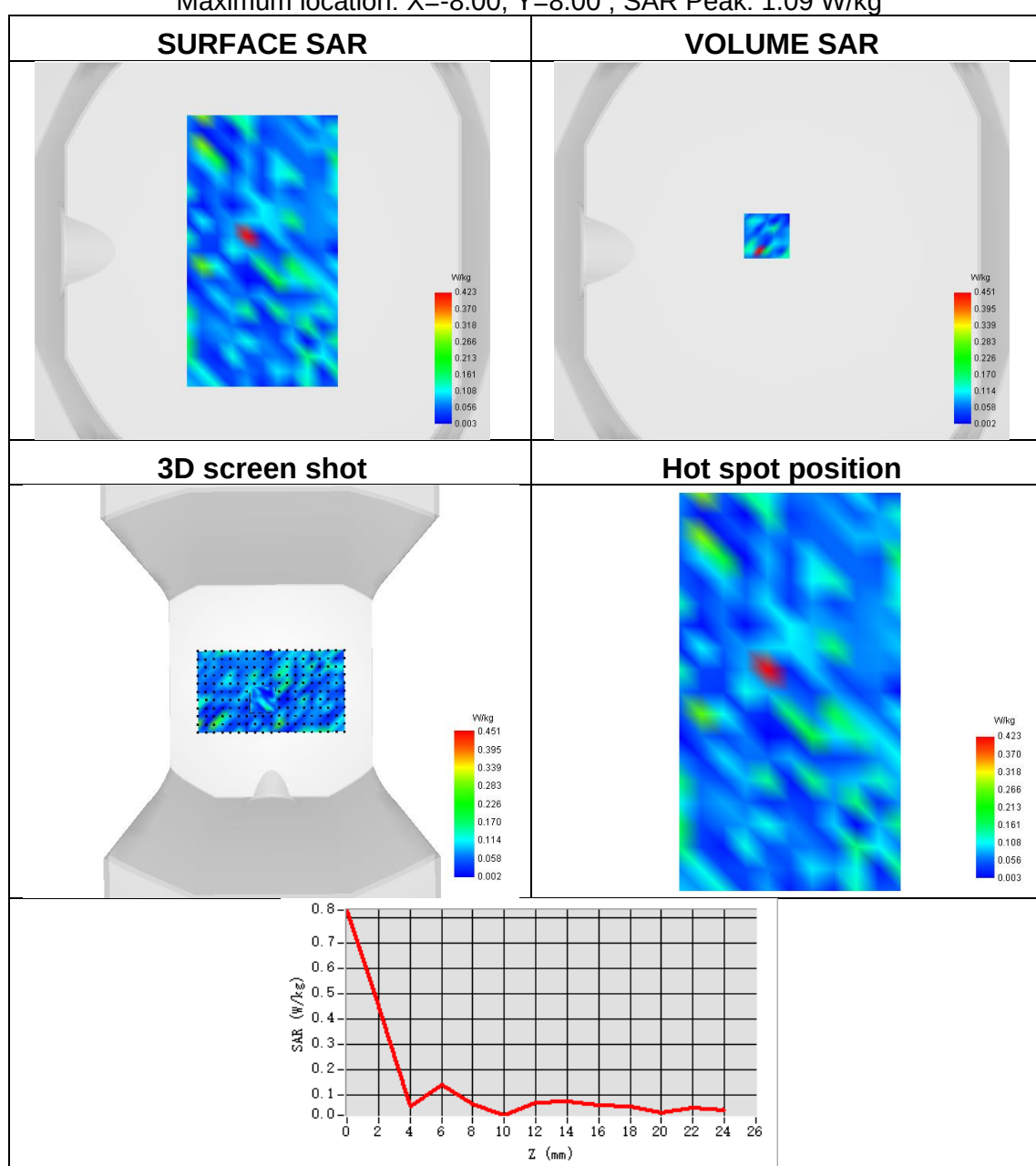




Plot 58:

Test Date	2024-09-13
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Top Edge
Band	U-NII-2c MIMO ANT 1
Signal	IEEE 802.11n-HT40
Frequency	5510
SAR 10g (W/Kg)	0.060
SAR 1g (W/Kg)	0.182

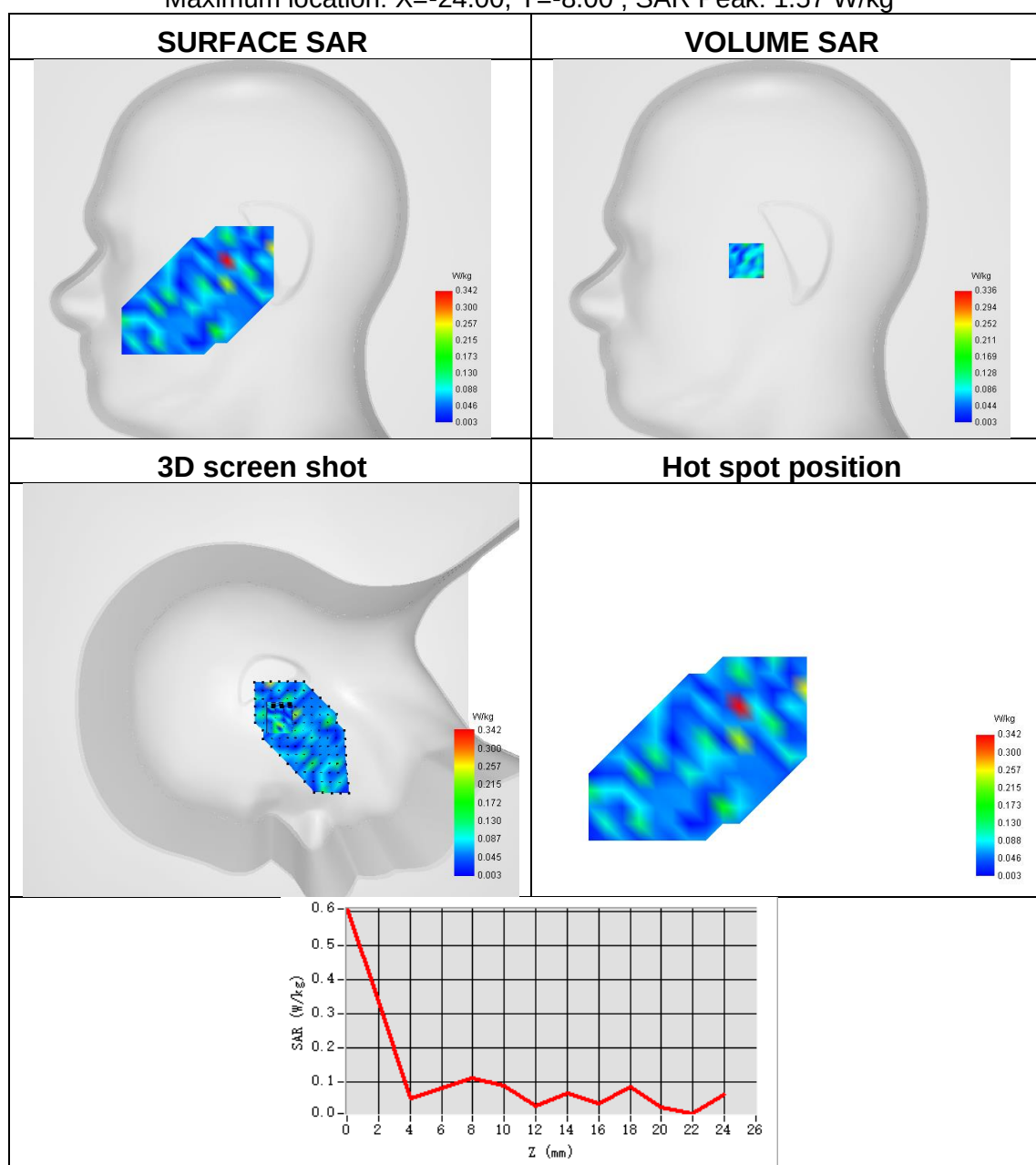
Maximum location: X=-8.00, Y=8.00 ; SAR Peak: 1.09 W/kg



Plot 59:

Test Date	2024-09-13
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Right head
Device Position	Cheek
Band	U-NII-2c MIMO ANT 2
Signal	IEEE 802.11n-HT40
Frequency	5510
SAR 10g (W/Kg)	0.046
SAR 1g (W/Kg)	0.112

Maximum location: X=-24.00, Y=-8.00 ; SAR Peak: 1.57 W/kg

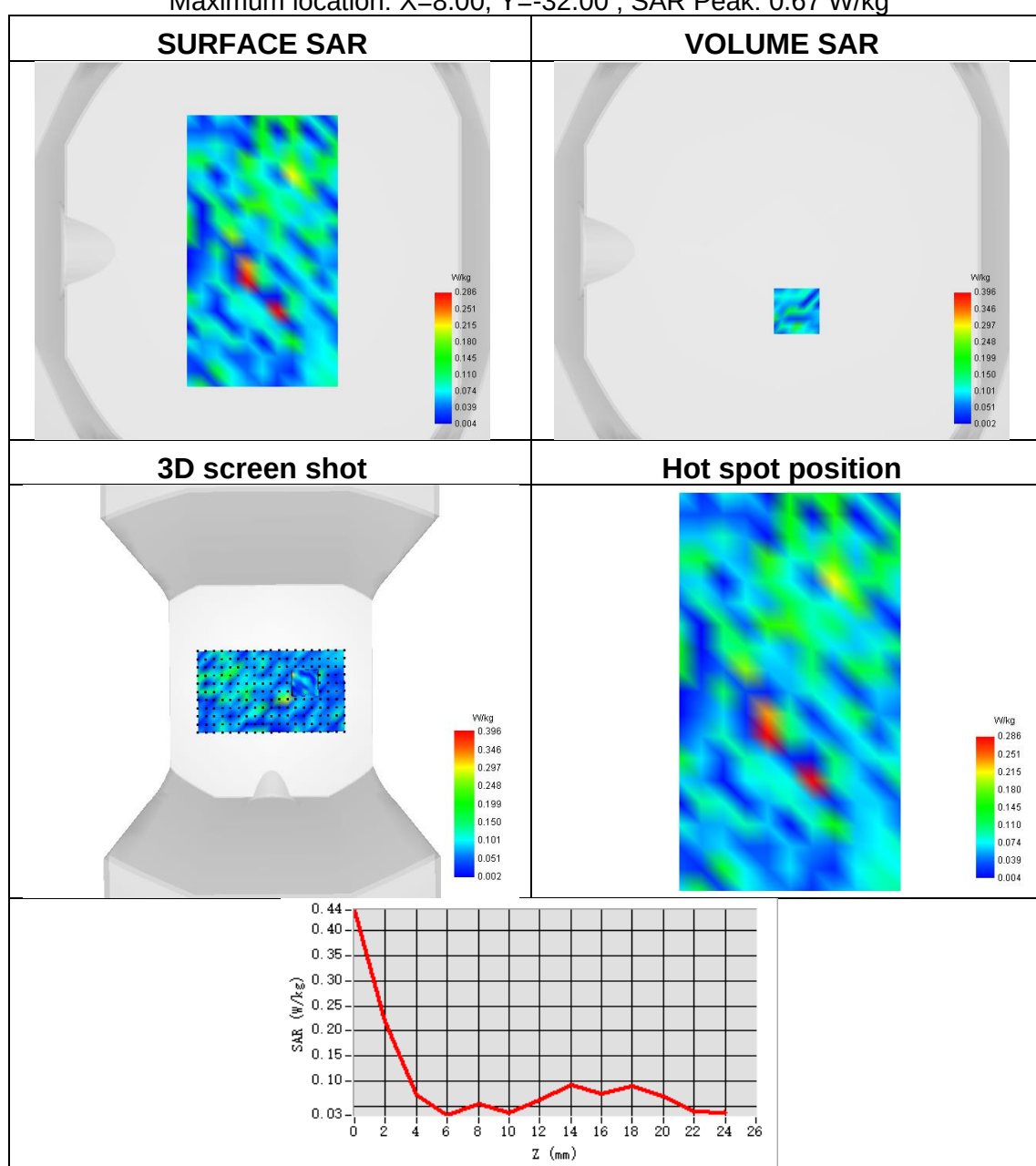




Plot 60:

Test Date	2024-09-13
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Top Edge
Band	U-NII-2c MIMO ANT 2
Signal	IEEE 802.11n-HT40
Frequency	5510
SAR 10g (W/Kg)	0.059
SAR 1g (W/Kg)	0.099

Maximum location: X=8.00, Y=-32.00 ; SAR Peak: 0.67 W/kg

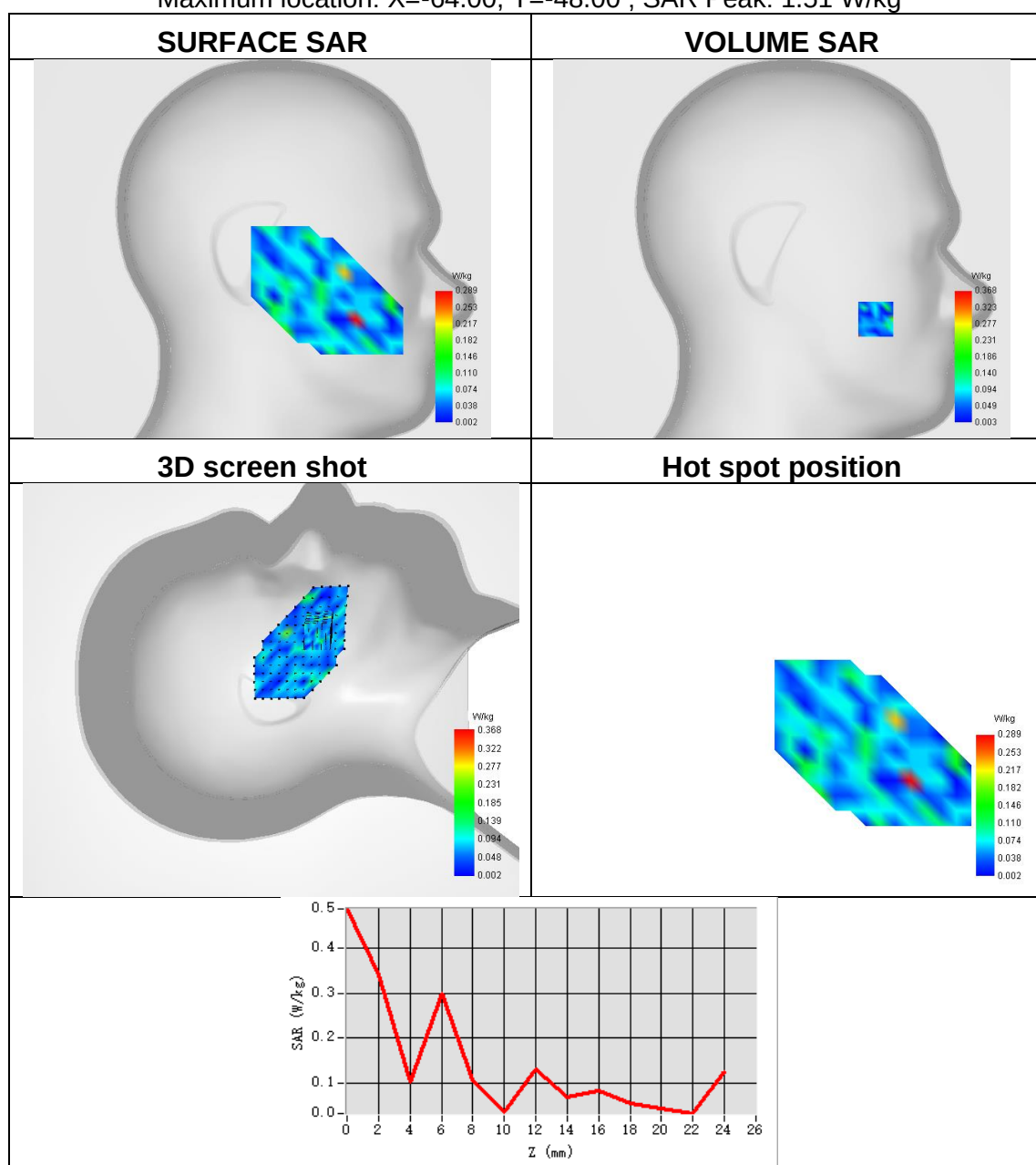




Plot 61:

Test Date	2024-09-14
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Left head
Device Position	Cheek
Band	U-NII-3 ANT 1
Signal	IEEE 802.11a
Frequency	5745
SAR 10g (W/Kg)	0.060
SAR 1g (W/Kg)	0.155

Maximum location: X=-64.00, Y=-48.00 ; SAR Peak: 1.51 W/kg

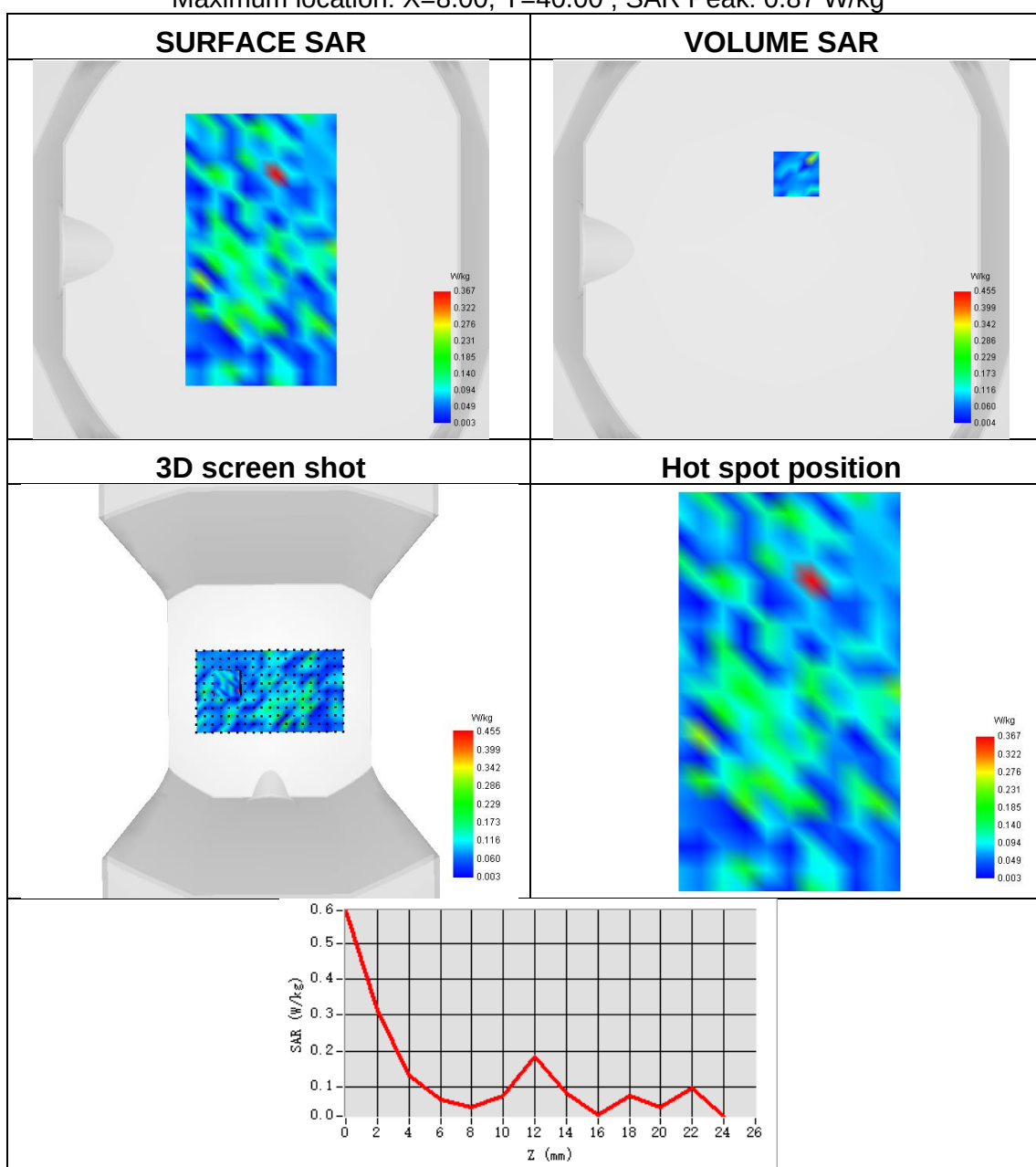




Plot 62:

Test Date	2024-09-14
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Top Edge
Band	U-NII-3 ANT 1
Signal	IEEE 802.11a
Frequency	5745
SAR 10g (W/Kg)	0.051
SAR 1g (W/Kg)	0.117

Maximum location: X=8.00, Y=40.00 ; SAR Peak: 0.87 W/kg

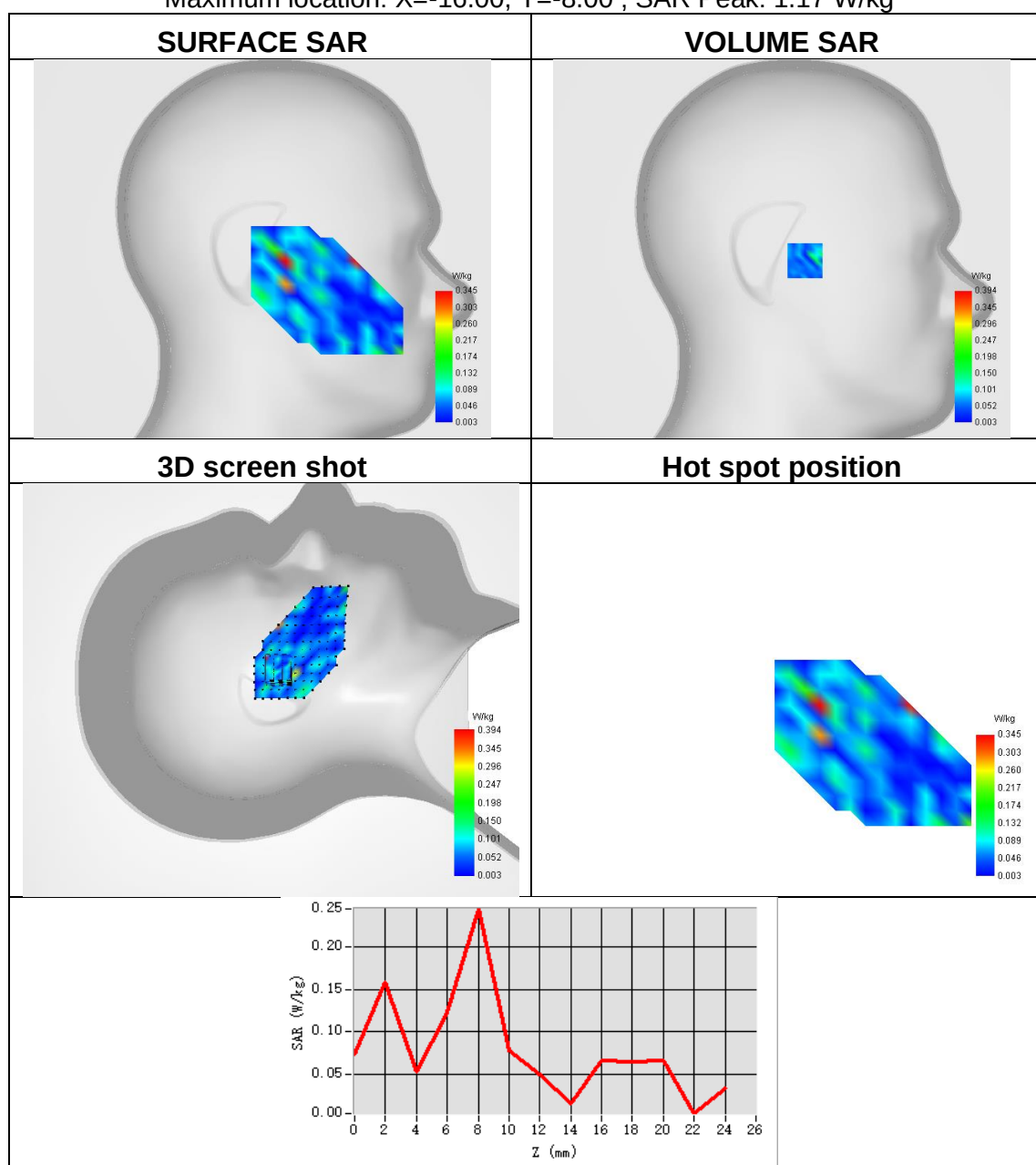




Plot 63:

Test Date	2024-09-14
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Left head
Device Position	Cheek
Band	U-NII-3 ANT 2
Signal	IEEE 802.11a
Frequency	5785
SAR 10g (W/Kg)	0.057
SAR 1g (W/Kg)	0.162

Maximum location: X=-16.00, Y=-8.00 ; SAR Peak: 1.17 W/kg

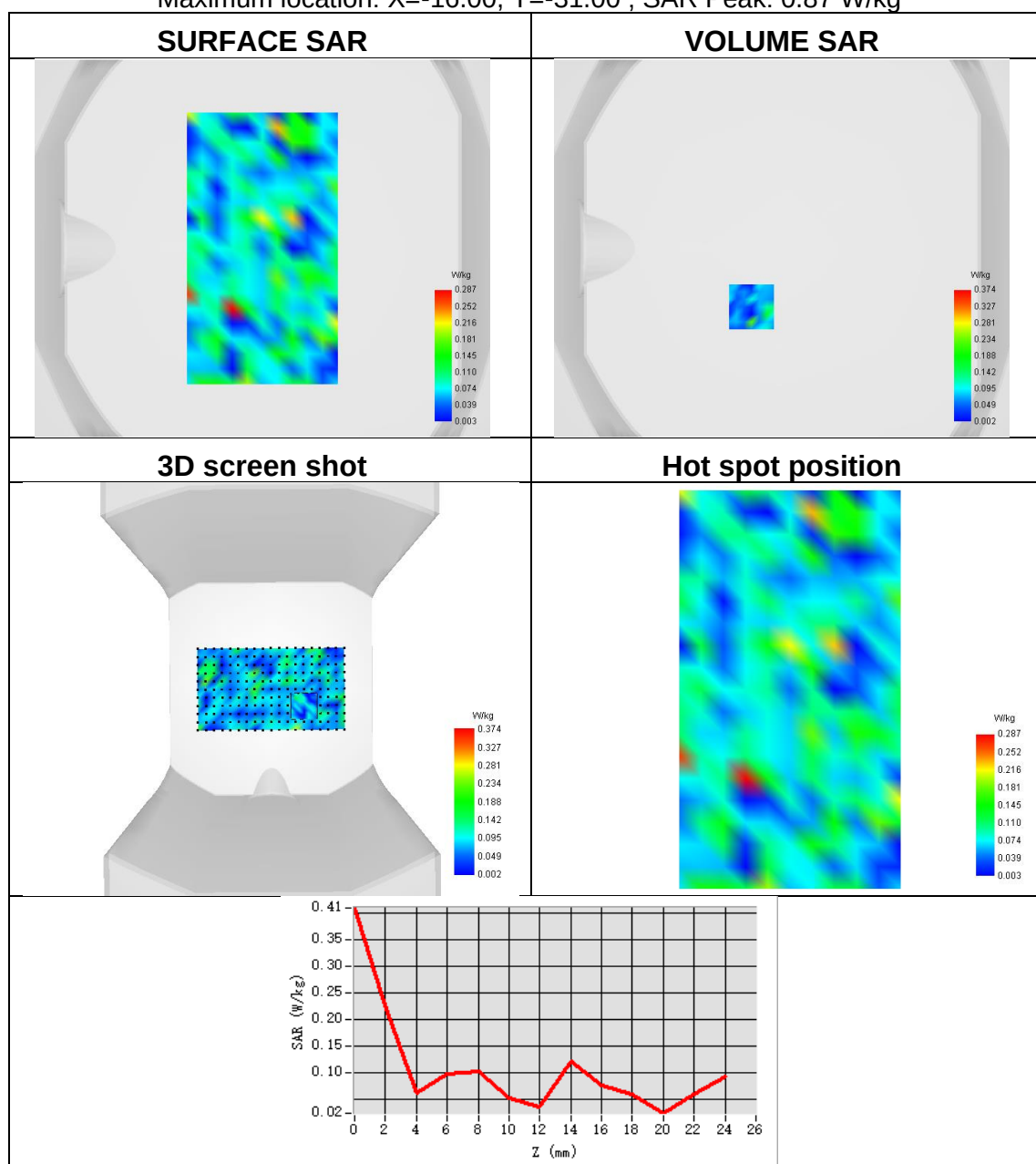




Plot 64:

Test Date	2024-09-14
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Top Edge
Band	U-NII-3 ANT 2
Signal	IEEE 802.11a
Frequency	5785
SAR 10g (W/Kg)	0.071
SAR 1g (W/Kg)	0.127

Maximum location: X=-16.00, Y=-31.00 ; SAR Peak: 0.87 W/kg

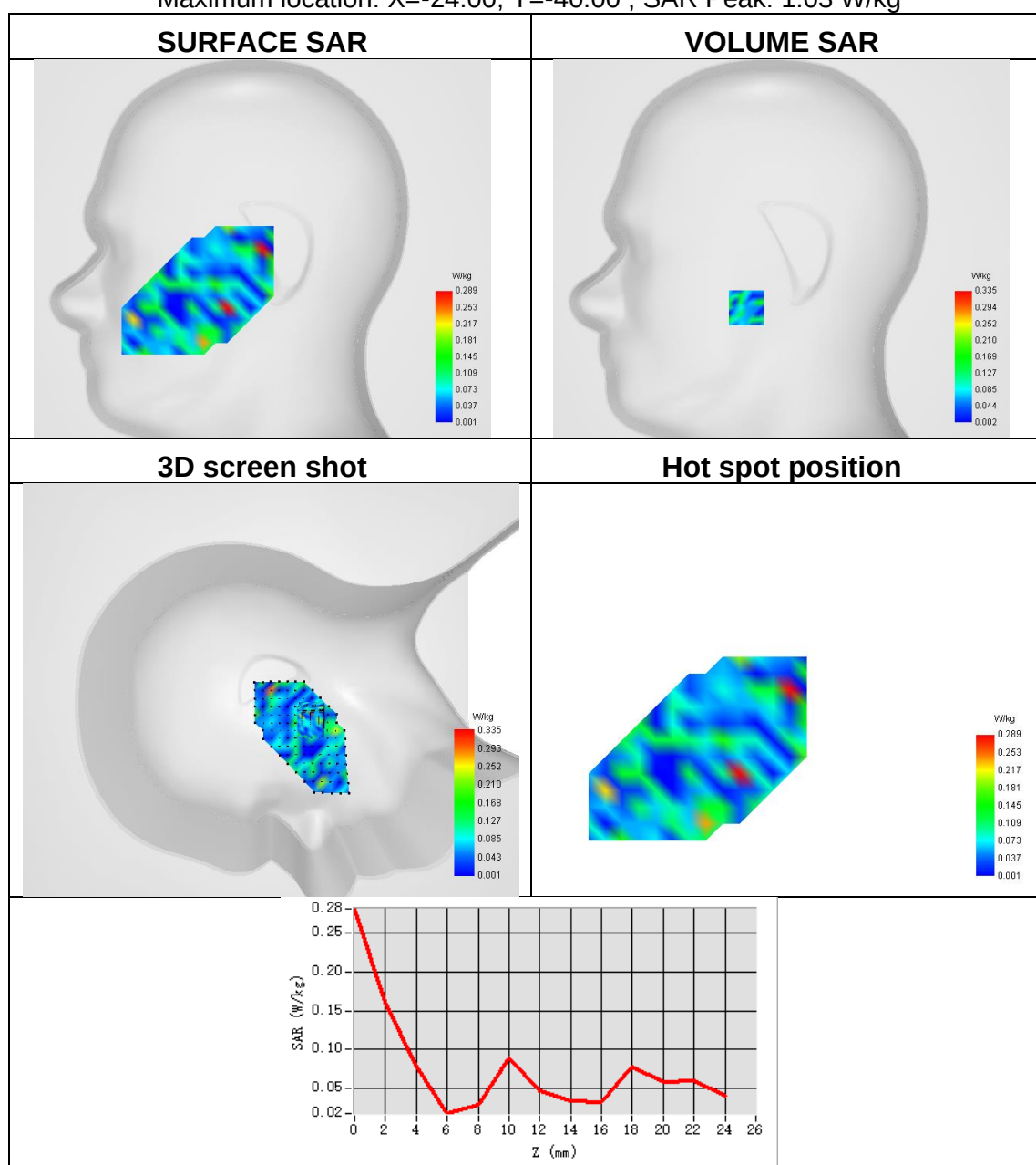




Plot 65:

Test Date	2024-09-14
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Right head
Device Position	Cheek
Band	U-NII-3 MIMO ANT 1
Signal	IEEE 802.11n-HT40
Frequency	5755
SAR 10g (W/Kg)	0.055
SAR 1g (W/Kg)	0.157

Maximum location: X=-24.00, Y=-40.00 ; SAR Peak: 1.03 W/kg

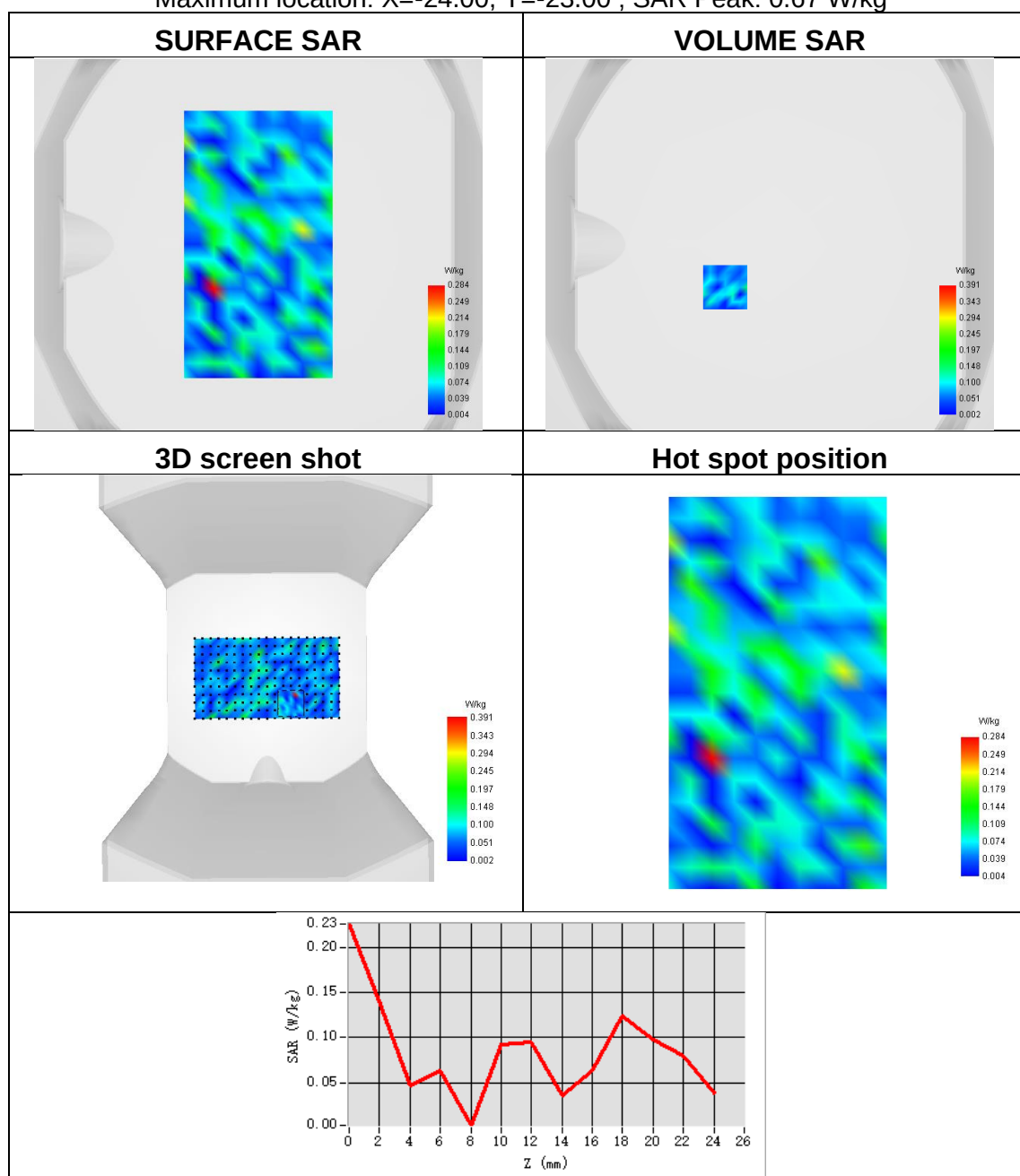




Plot 66:

Test Date	2024-09-14
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Top Edge
Band	U-NII-3 MIMO ANT 1
Signal	IEEE 802.11n-HT40
Frequency	5755
SAR 10g (W/Kg)	0.058
SAR 1g (W/Kg)	0.103

Maximum location: X=-24.00, Y=-23.00 ; SAR Peak: 0.67 W/kg

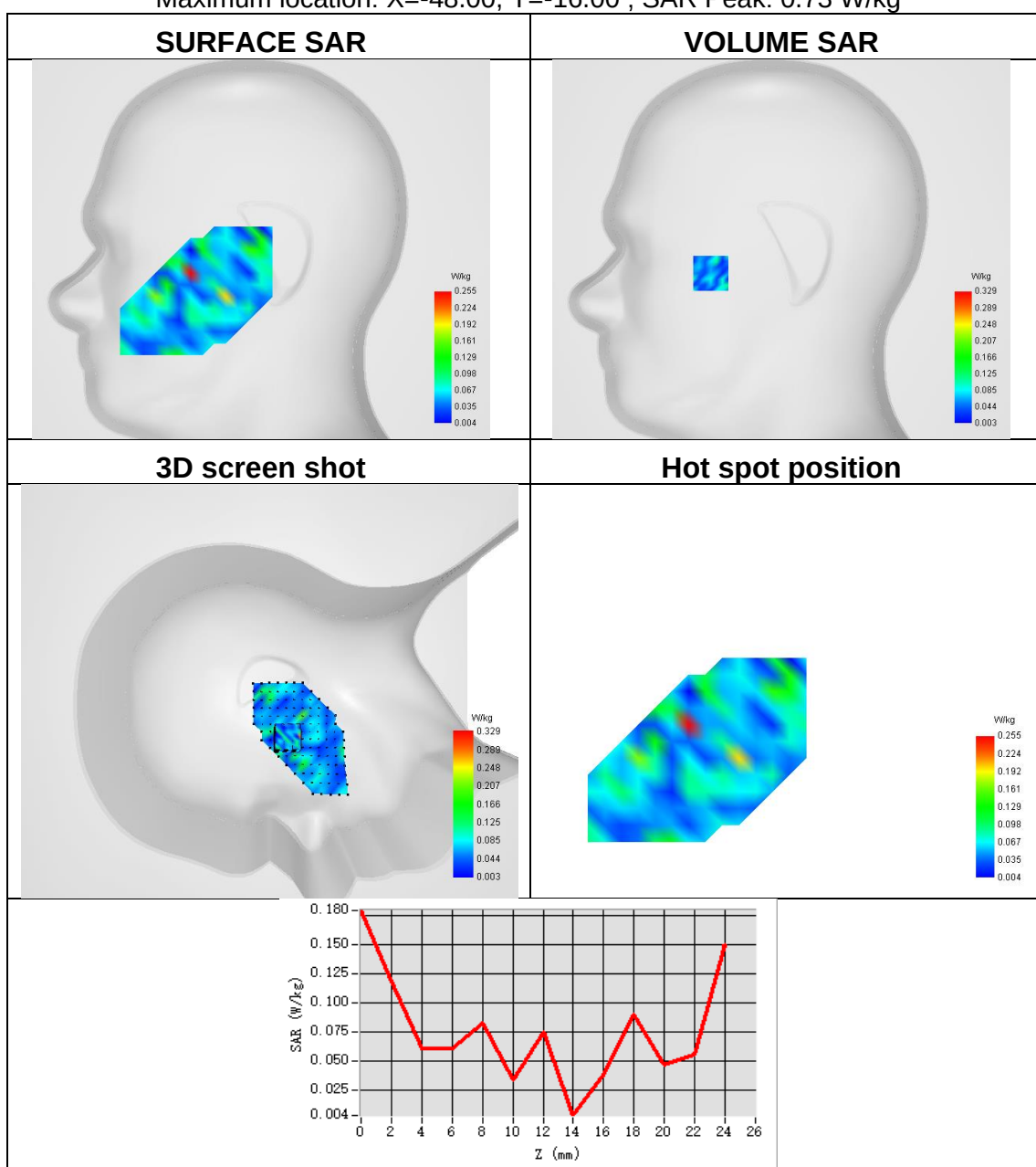




Plot 67:

Test Date	2024-09-14
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Right head
Device Position	Cheek
Band	U-NII-3 MIMO ANT 2
Signal	IEEE 802.11n-HT40
Frequency	5755
SAR 10g (W/Kg)	0.053
SAR 1g (W/Kg)	0.114

Maximum location: X=-48.00, Y=-16.00 ; SAR Peak: 0.73 W/kg

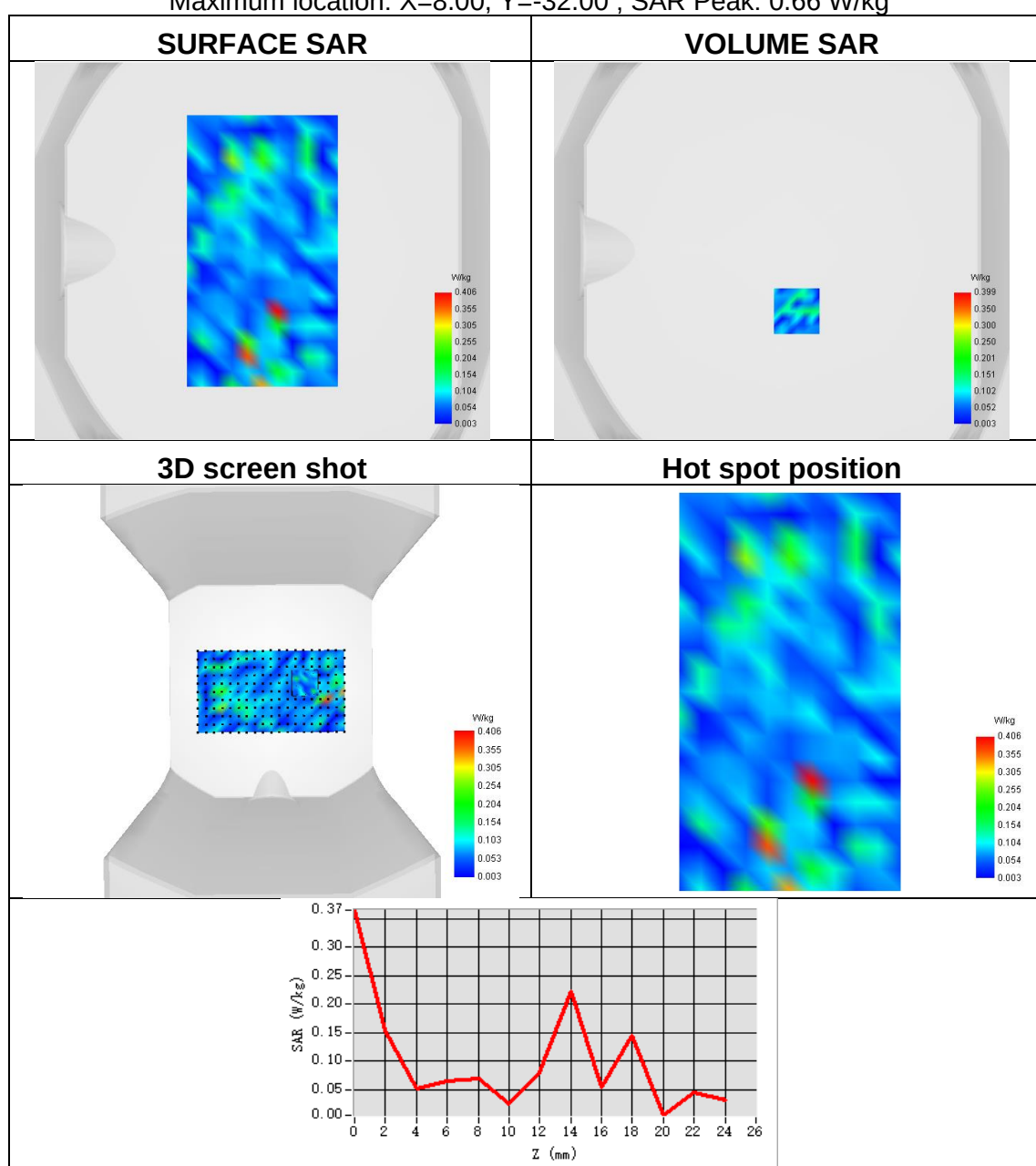




Plot 68:

Test Date	2024-09-14
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Top Edge
Band	U-NII-3 MIMO ANT 2
Signal	IEEE 802.11n-HT40
Frequency	5755
SAR 10g (W/Kg)	0.061
SAR 1g (W/Kg)	0.115

Maximum location: X=8.00, Y=-32.00 ; SAR Peak: 0.66 W/kg

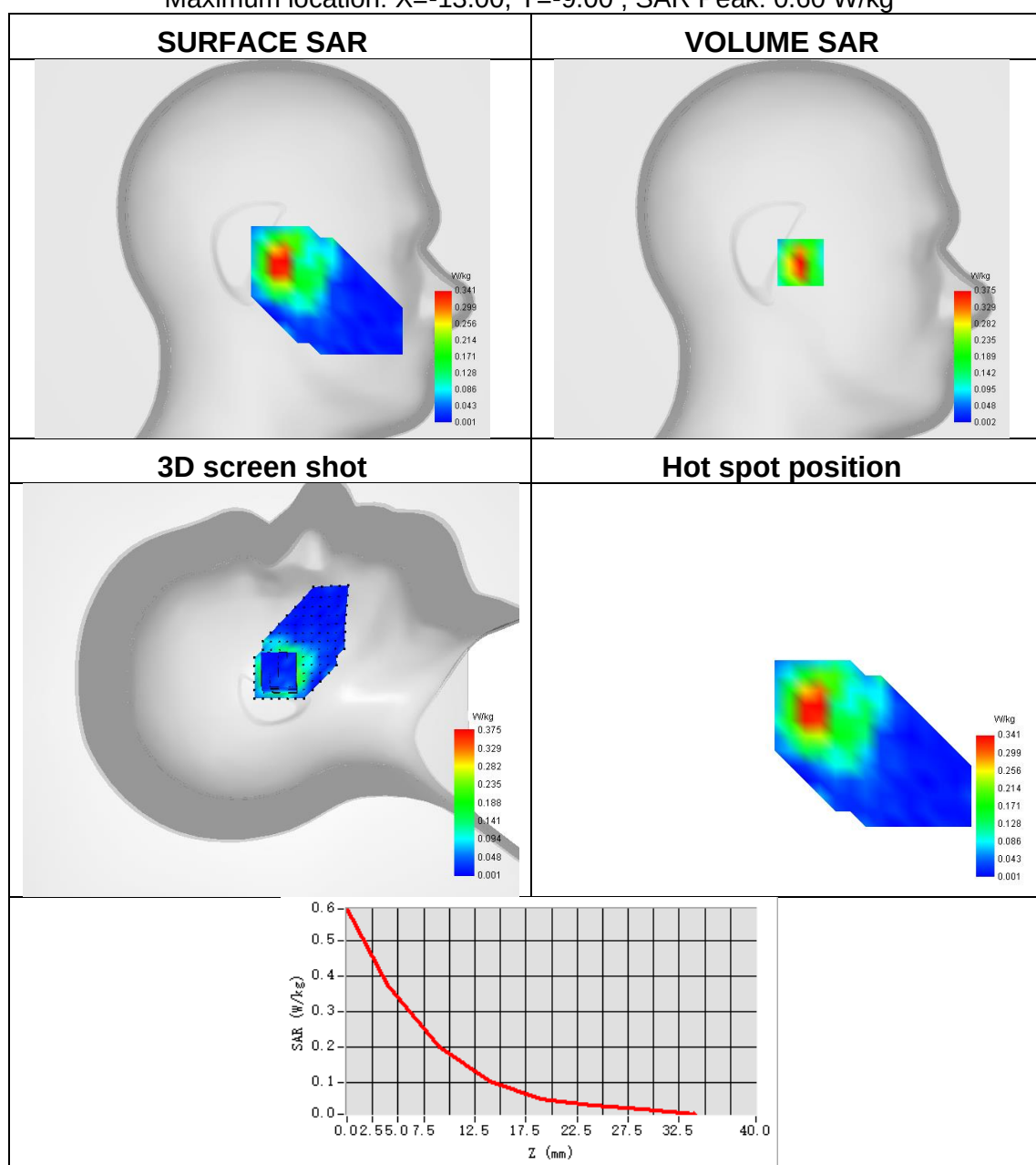




Plot 69:

Test Date	2024-09-08
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	NR band 1
Signal	NR FDD
Frequency	1970
SAR 10g (W/Kg)	0.171
SAR 1g (W/Kg)	0.347

Maximum location: X=-13.00, Y=-9.00 ; SAR Peak: 0.60 W/kg

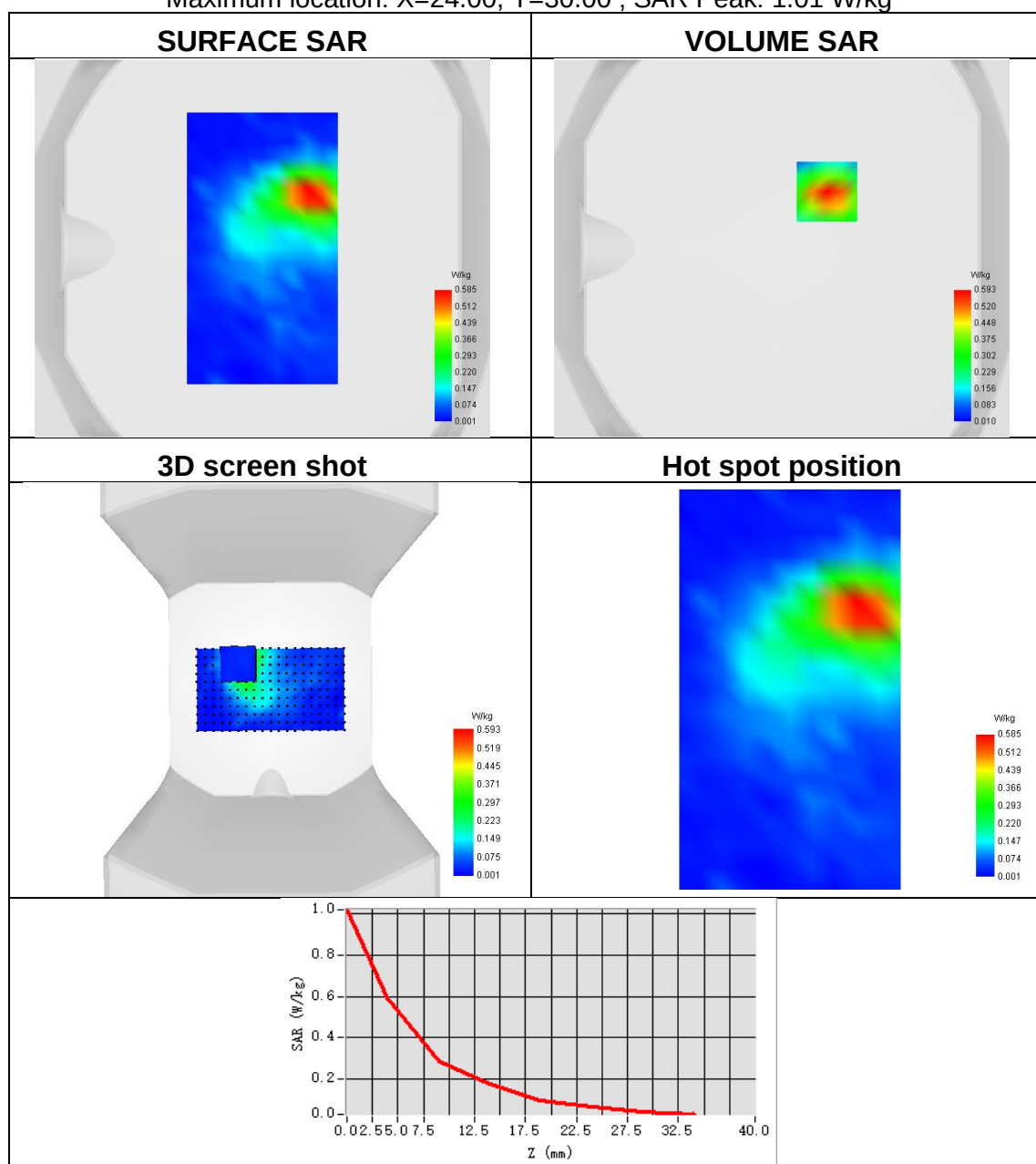




Plot 70:

Test Date	2024-09-08
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	NR band 1
Signal	NR FDD
Frequency	1970
SAR 10g (W/Kg)	0.277
SAR 1g (W/Kg)	0.560

Maximum location: X=24.00, Y=30.00 ; SAR Peak: 1.01 W/kg

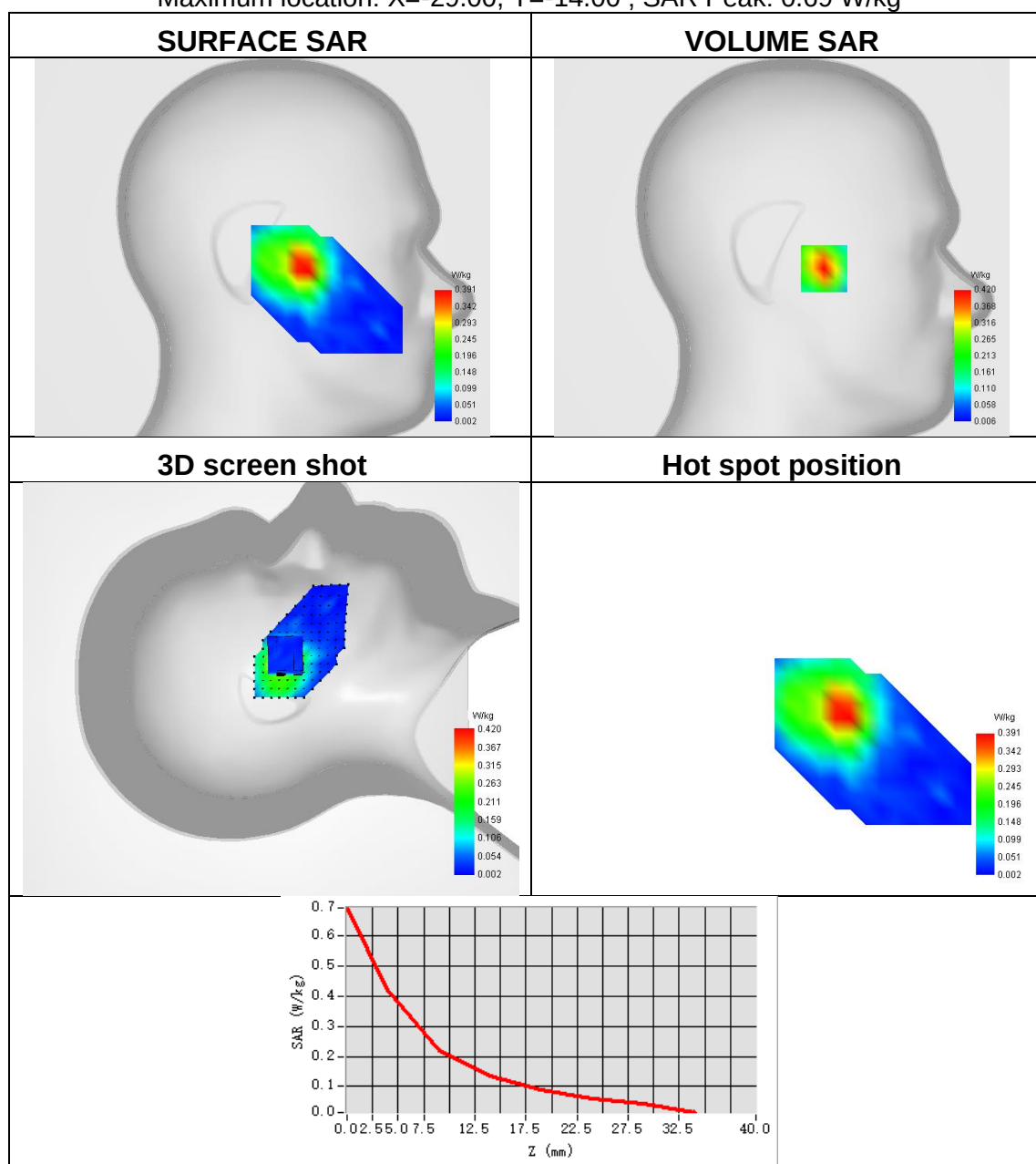




Plot 71:

Test Date	2024-09-07
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	NR band 3
Signal	NR FDD
Frequency	1725
SAR 10g (W/Kg)	0.207
SAR 1g (W/Kg)	0.392

Maximum location: X=-29.00, Y=-14.00 ; SAR Peak: 0.69 W/kg

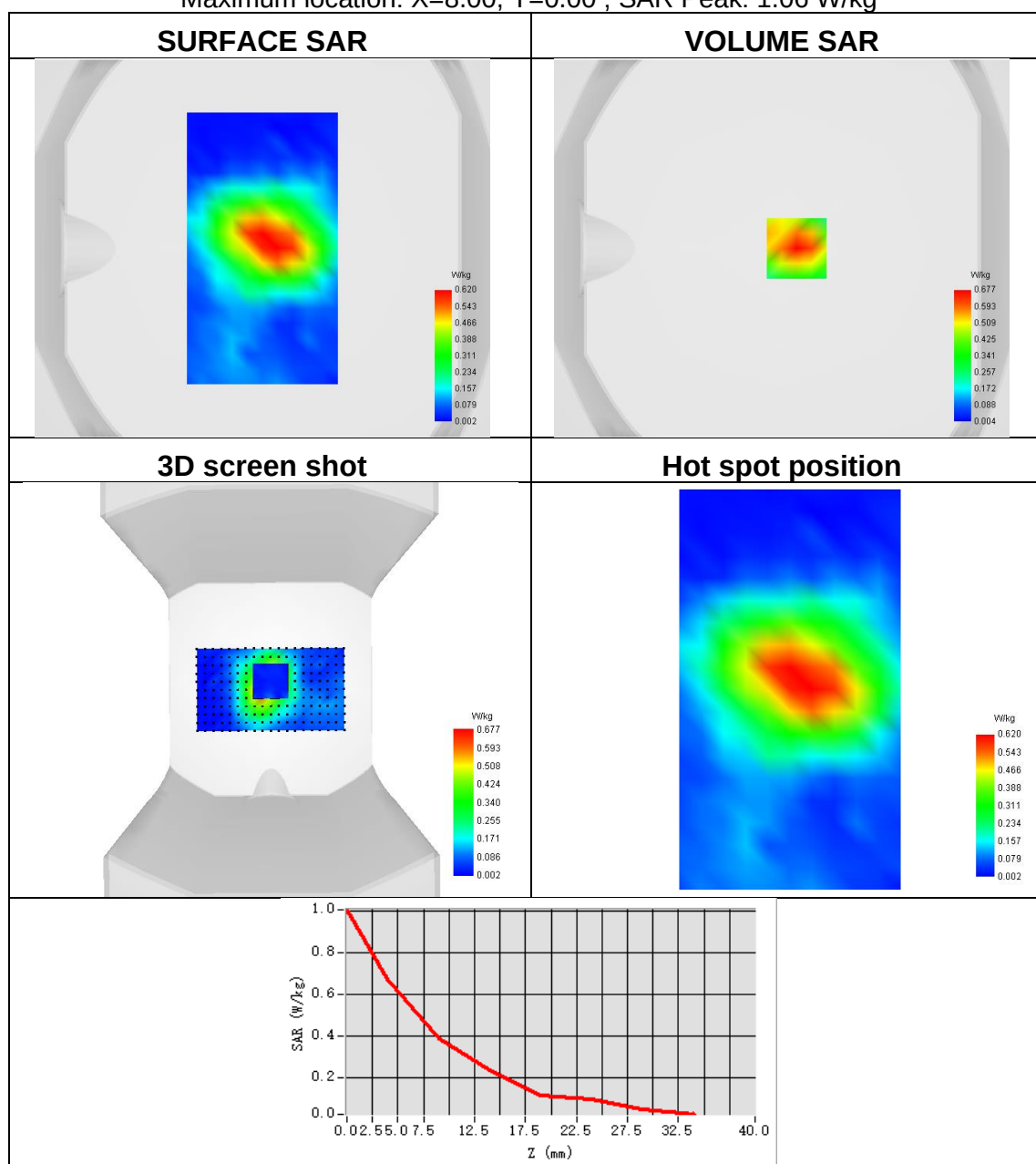




Plot 72:

Test Date	2024-09-07
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	NR band 3
Signal	NR FDD
Frequency	1725
SAR 10g (W/Kg)	0.353
SAR 1g (W/Kg)	0.640

Maximum location: X=8.00, Y=0.00 ; SAR Peak: 1.06 W/kg

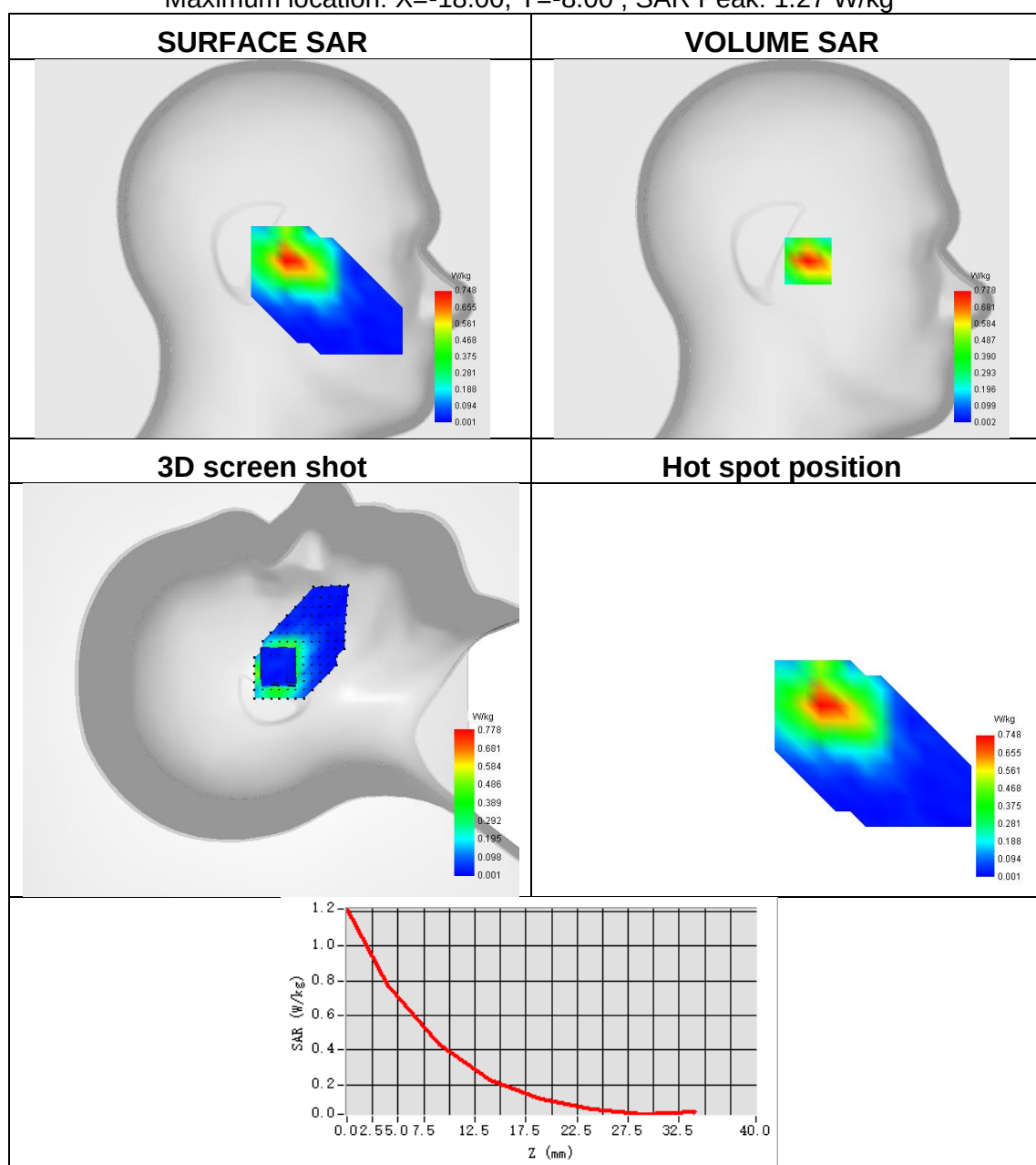




Plot 73:

Test Date	2024-09-03
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	NR band 7
Signal	NR FDD
Frequency	2560
SAR 10g (W/Kg)	0.359
SAR 1g (W/Kg)	0.716

Maximum location: X=-18.00, Y=-8.00 ; SAR Peak: 1.27 W/kg

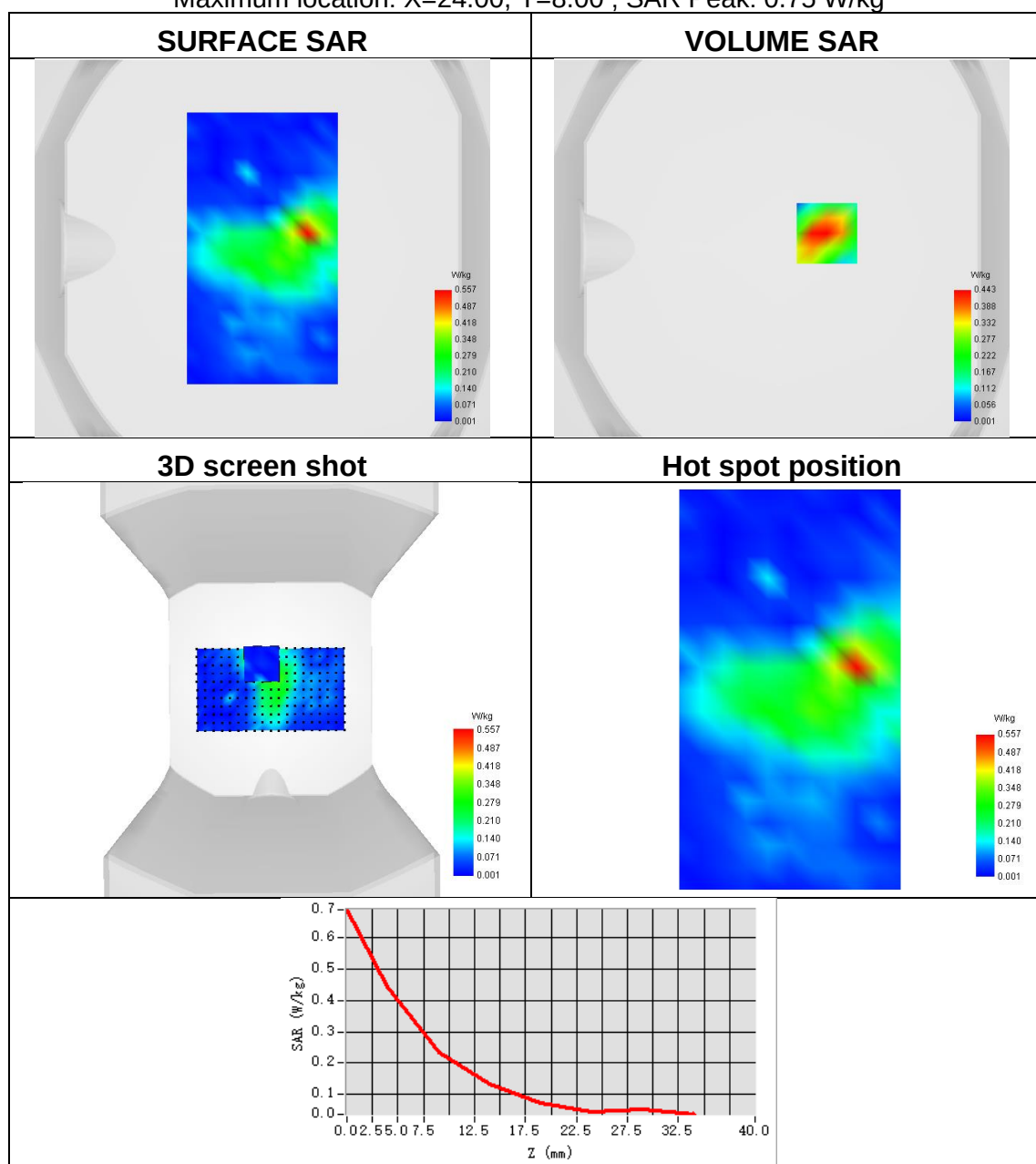




Plot 74:

Test Date	2024-09-03
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	NR band 7
Signal	NR FDD
Frequency	2560
SAR 10g (W/Kg)	0.203
SAR 1g (W/Kg)	0.417

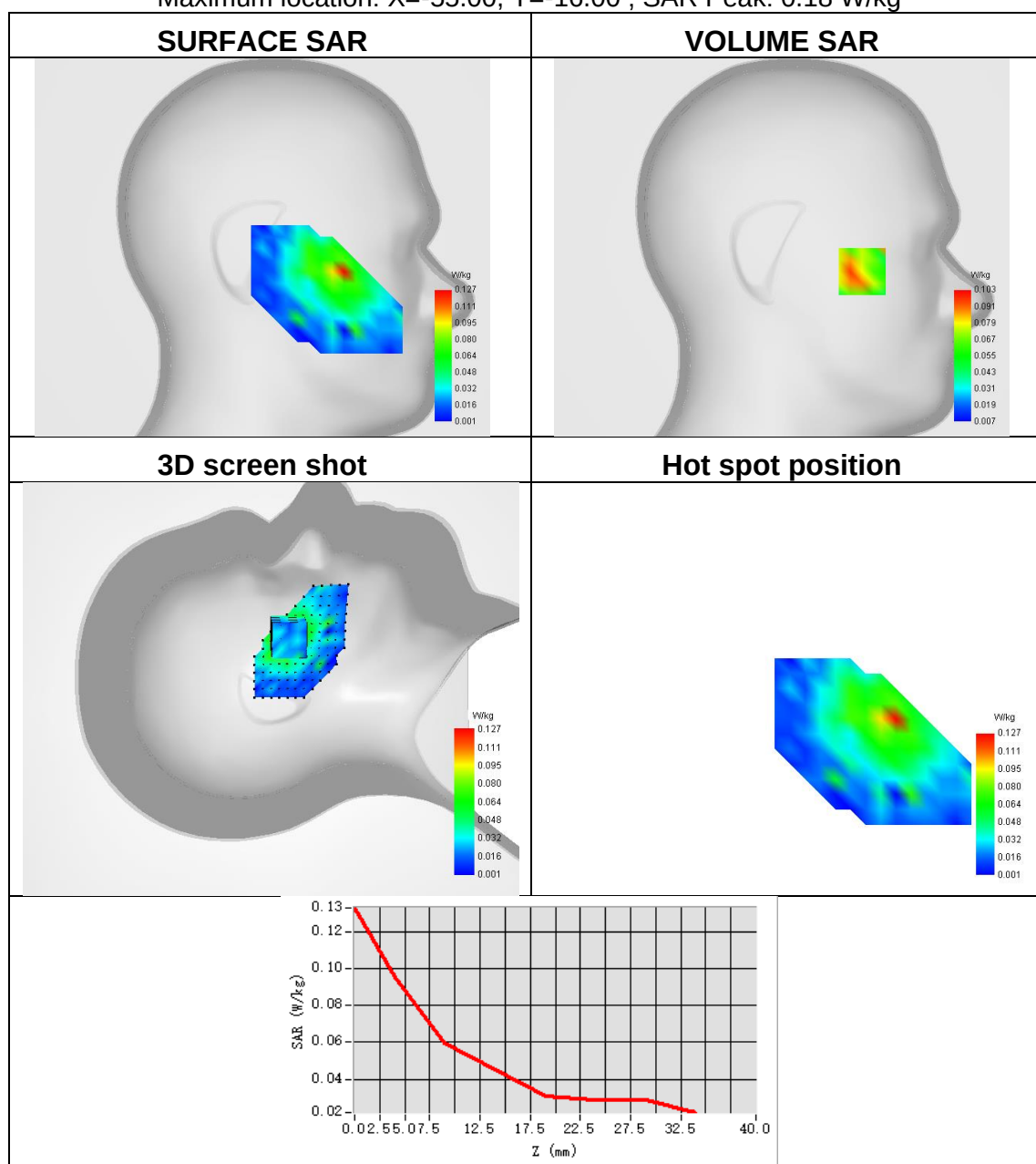
Maximum location: X=24.00, Y=8.00 ; SAR Peak: 0.75 W/kg



Plot 75:

Test Date	2024-09-02
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	NR band 8
Signal	NR FDD
Frequency	897.5
SAR 10g (W/Kg)	0.053
SAR 1g (W/Kg)	0.092

Maximum location: X=-55.00, Y=-16.00 ; SAR Peak: 0.18 W/kg

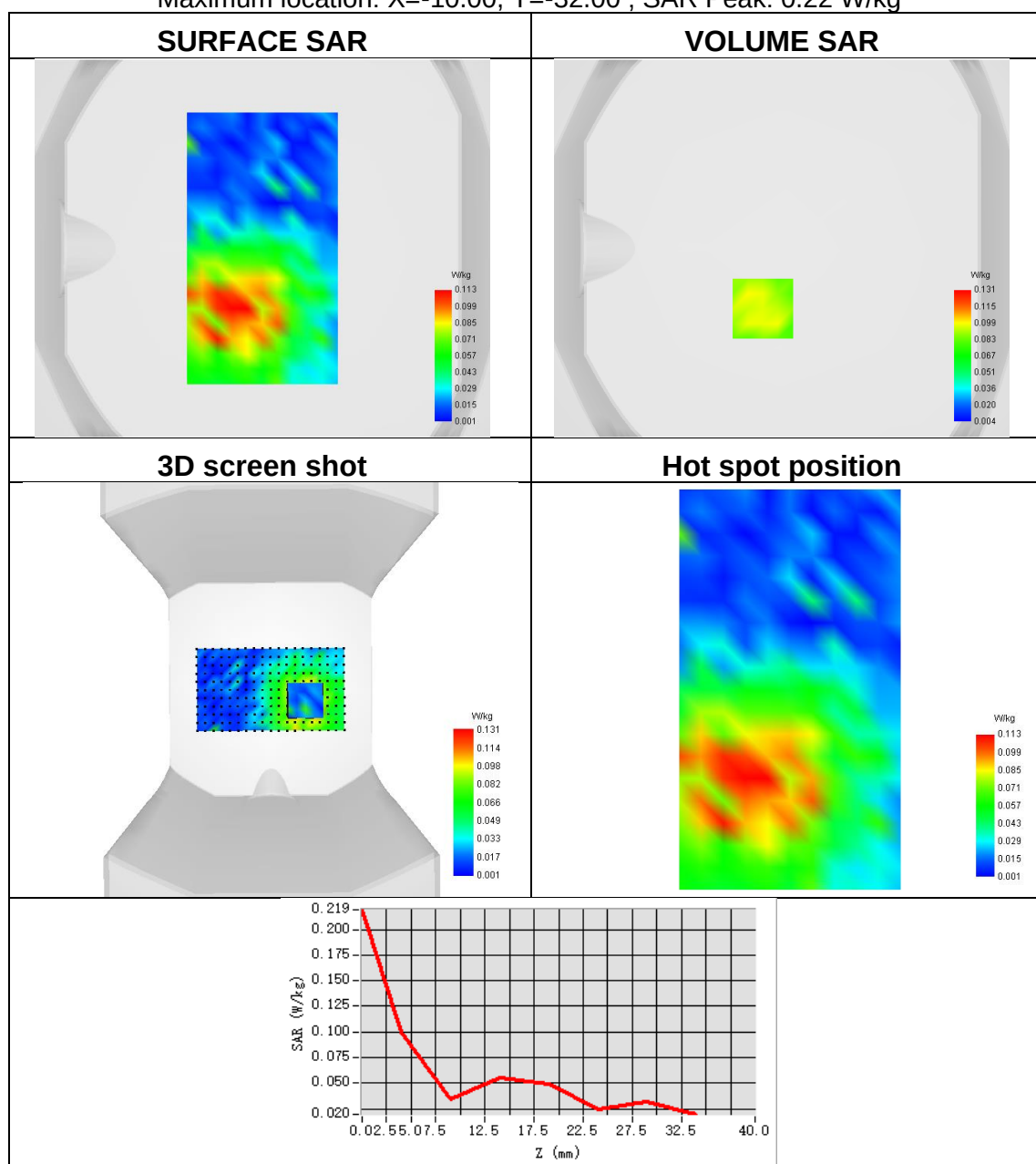




Plot 76:

Test Date	2024-09-02
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	NR band 8
Signal	NR FDD
Frequency	897.5
SAR 10g (W/Kg)	0.059
SAR 1g (W/Kg)	0.113

Maximum location: X=-10.00, Y=-32.00 ; SAR Peak: 0.22 W/kg

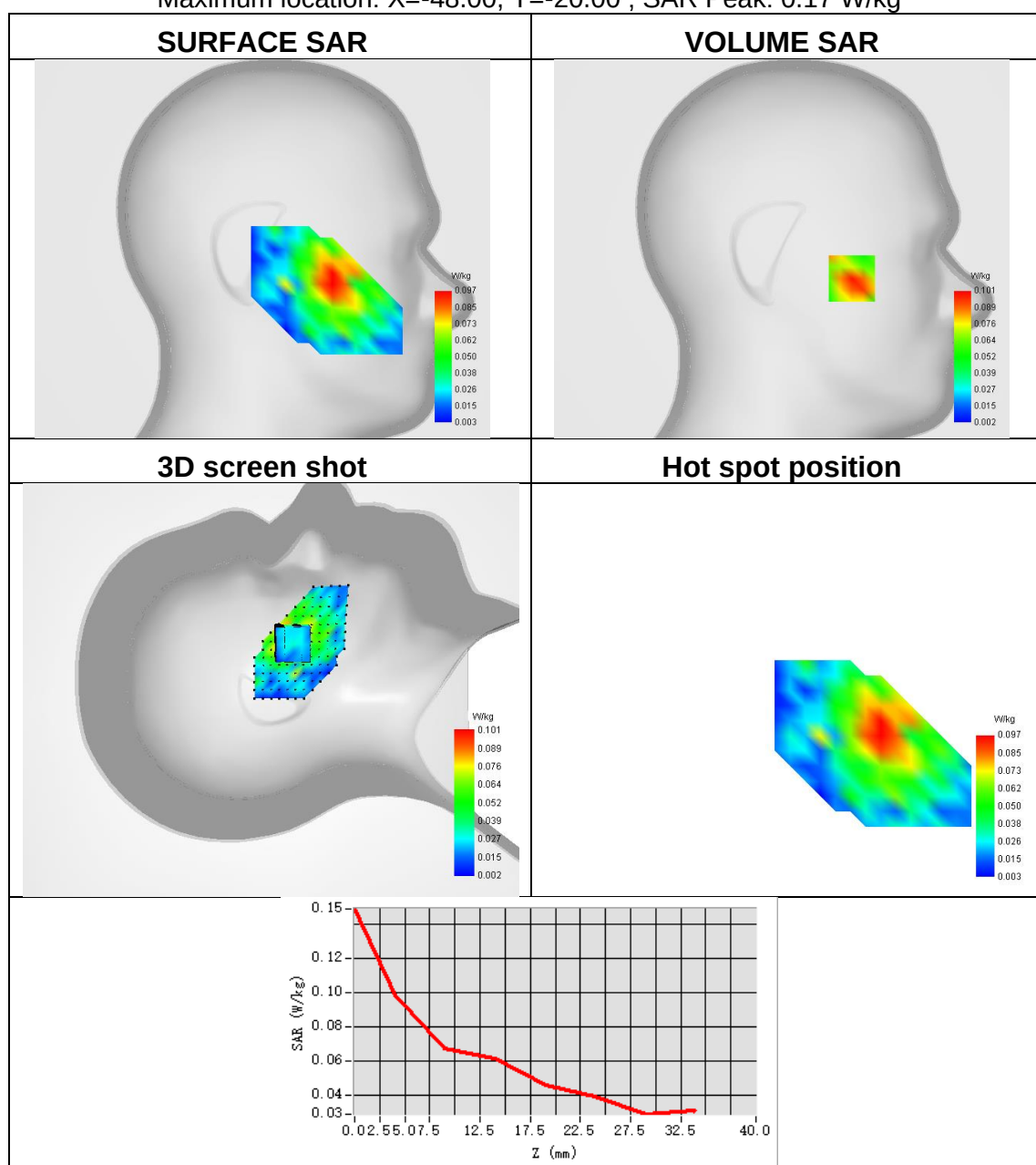




Plot 77:

Test Date	2024-09-02
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	NR band 20
Signal	NR FDD
Frequency	847
SAR 10g (W/Kg)	0.060
SAR 1g (W/Kg)	0.099

Maximum location: X=-48.00, Y=-20.00 ; SAR Peak: 0.17 W/kg

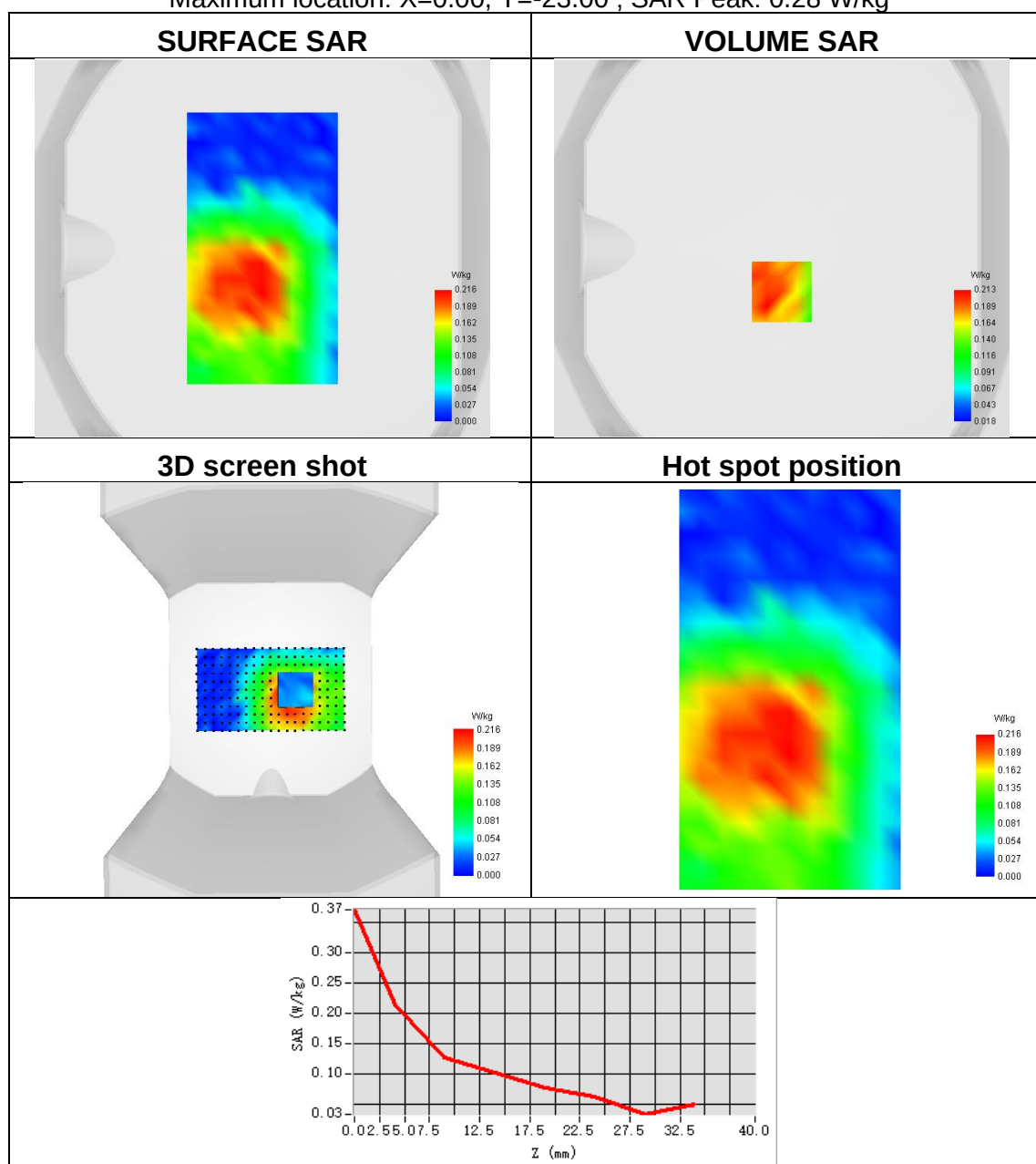




Plot 78:

Test Date	2024-09-02
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	NR band 20
Signal	NR FDD
Frequency	847
SAR 10g (W/Kg)	0.116
SAR 1g (W/Kg)	0.191

Maximum location: X=0.00, Y=-23.00 ; SAR Peak: 0.28 W/kg

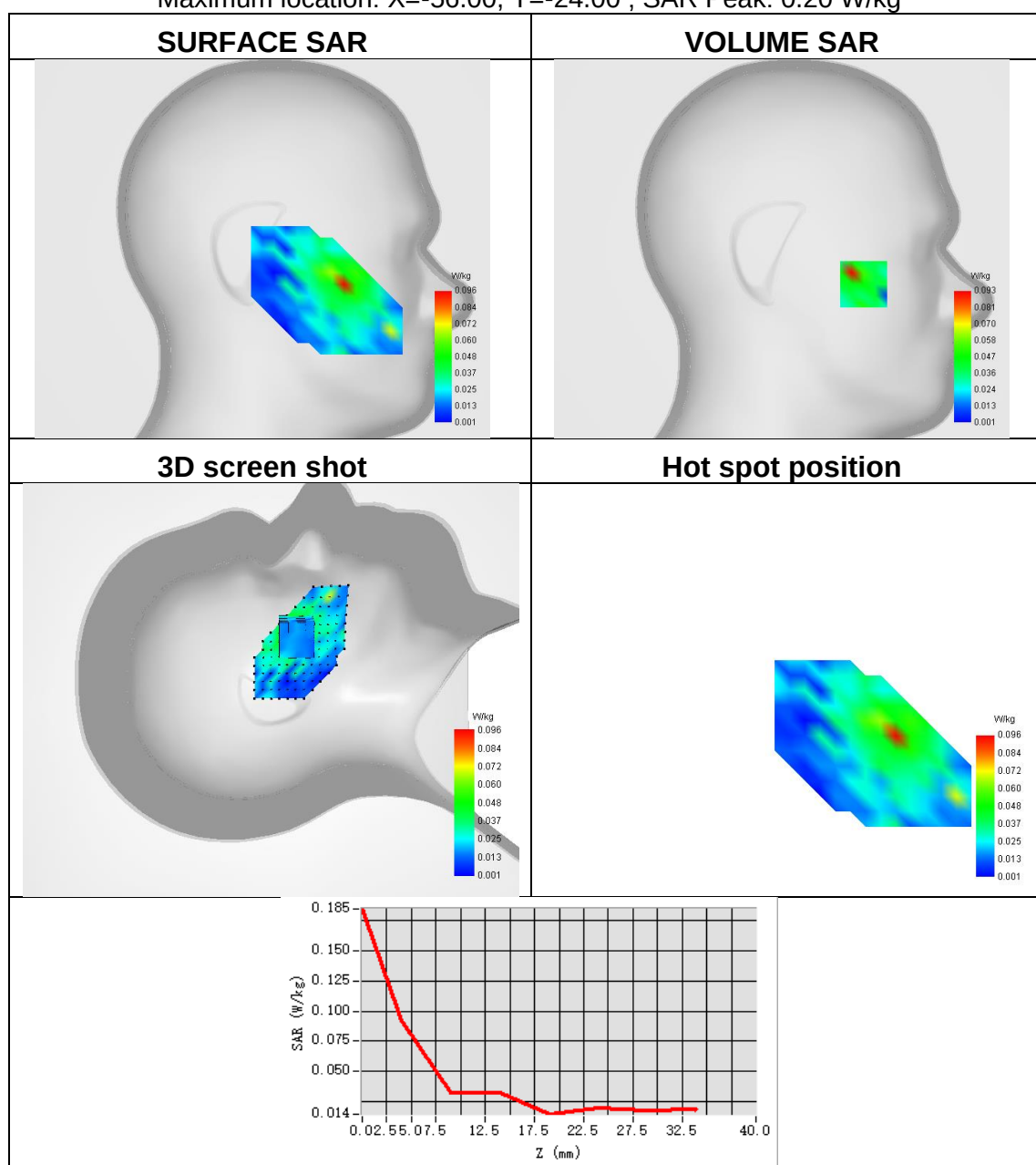




Plot 79:

Test Date	2024-09-07
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	NR band 28
Signal	NR FDD
Frequency	731
SAR 10g (W/Kg)	0.034
SAR 1g (W/Kg)	0.080

Maximum location: X=-56.00, Y=-24.00 ; SAR Peak: 0.20 W/kg

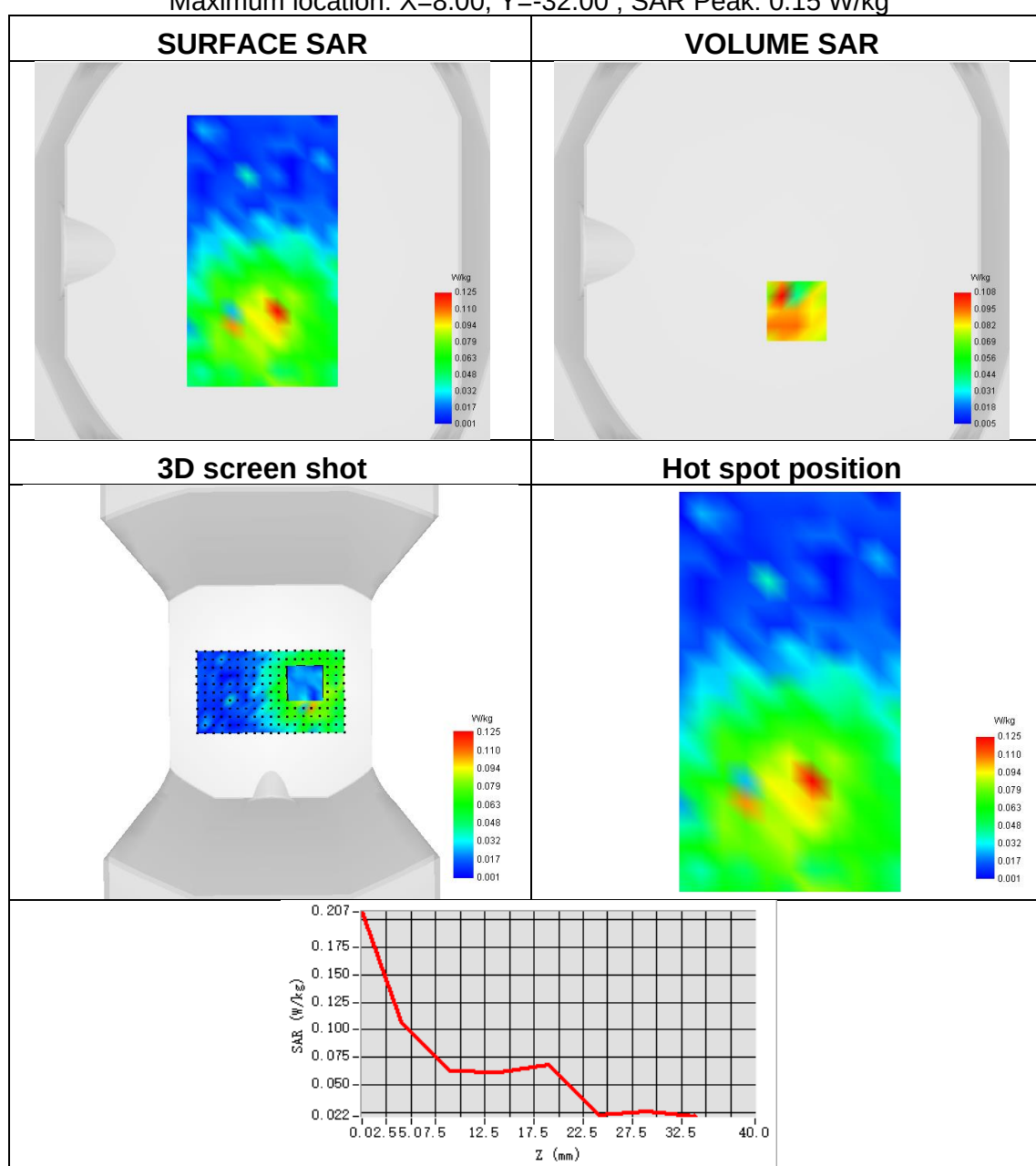




Plot 80:

Test Date	2024-09-07
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	NR band 28
Signal	NR FDD
Frequency	731
SAR 10g (W/Kg)	0.051
SAR 1g (W/Kg)	0.101

Maximum location: X=8.00, Y=-32.00 ; SAR Peak: 0.15 W/kg

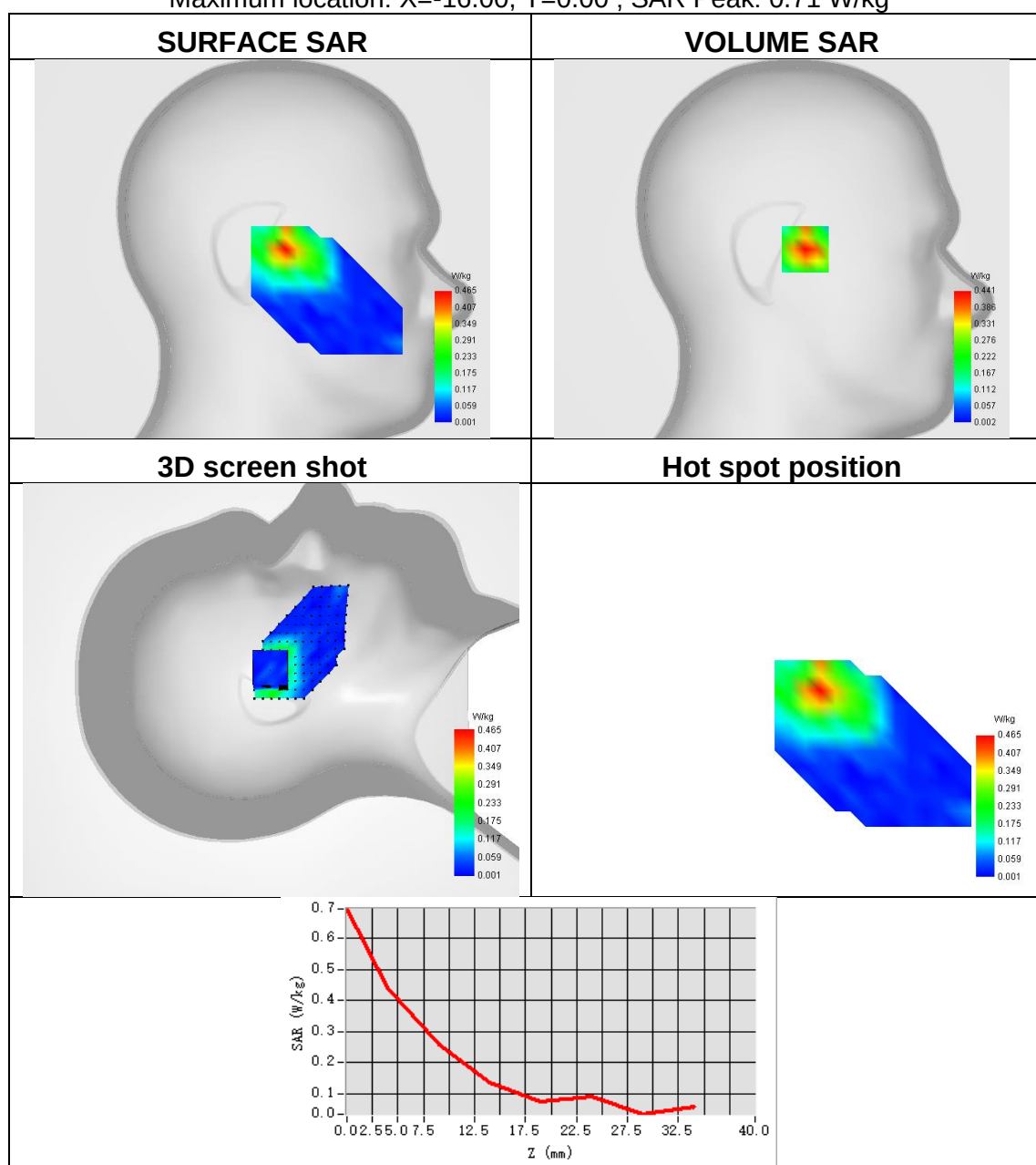




Plot 81:

Test Date	2024-09-03
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	NR band 38
Signal	NR TDD
Frequency	2595
SAR 10g (W/Kg)	0.211
SAR 1g (W/Kg)	0.414

Maximum location: X=-16.00, Y=0.00 ; SAR Peak: 0.71 W/kg

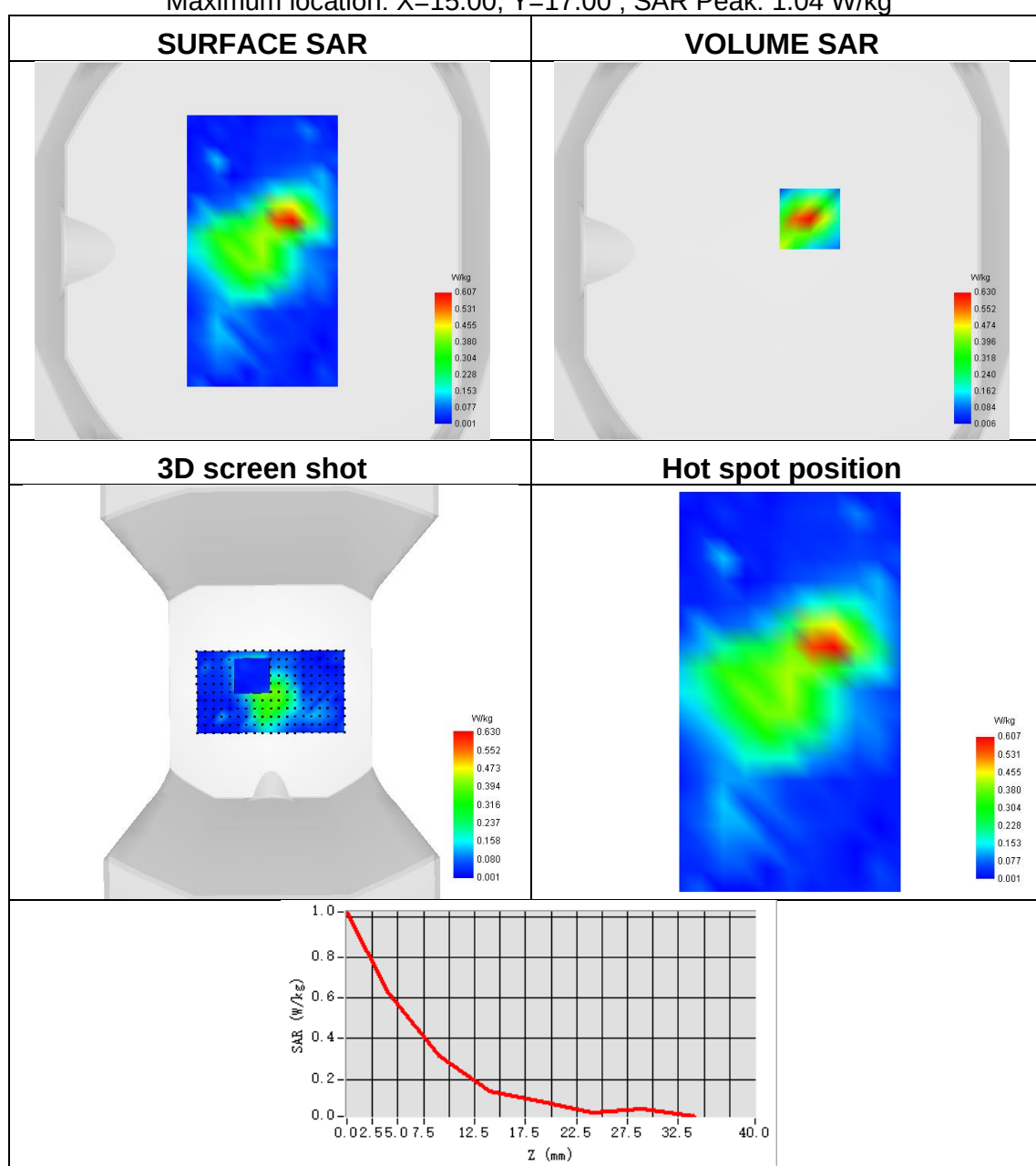




Plot 82:

Test Date	2024-09-03
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	NR band 38
Signal	NR TDD
Frequency	2595
SAR 10g (W/Kg)	0.248
SAR 1g (W/Kg)	0.565

Maximum location: X=15.00, Y=17.00 ; SAR Peak: 1.04 W/kg

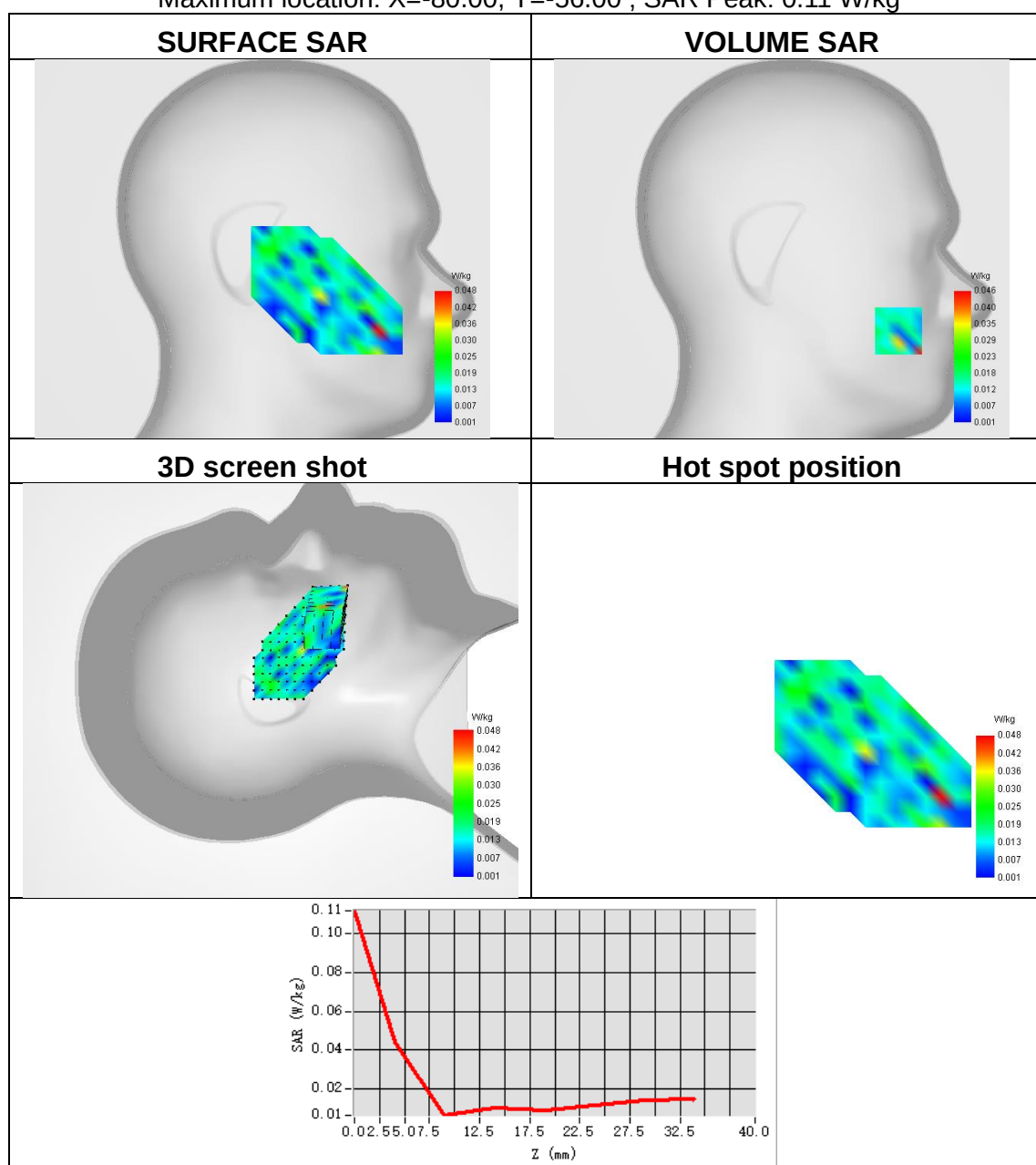




Plot 83:

Test Date	2024-09-10
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	NR band 40
Signal	NR TDD
Frequency	2340
SAR 10g (W/Kg)	0.015
SAR 1g (W/Kg)	0.035

Maximum location: X=-80.00, Y=-56.00 ; SAR Peak: 0.11 W/kg

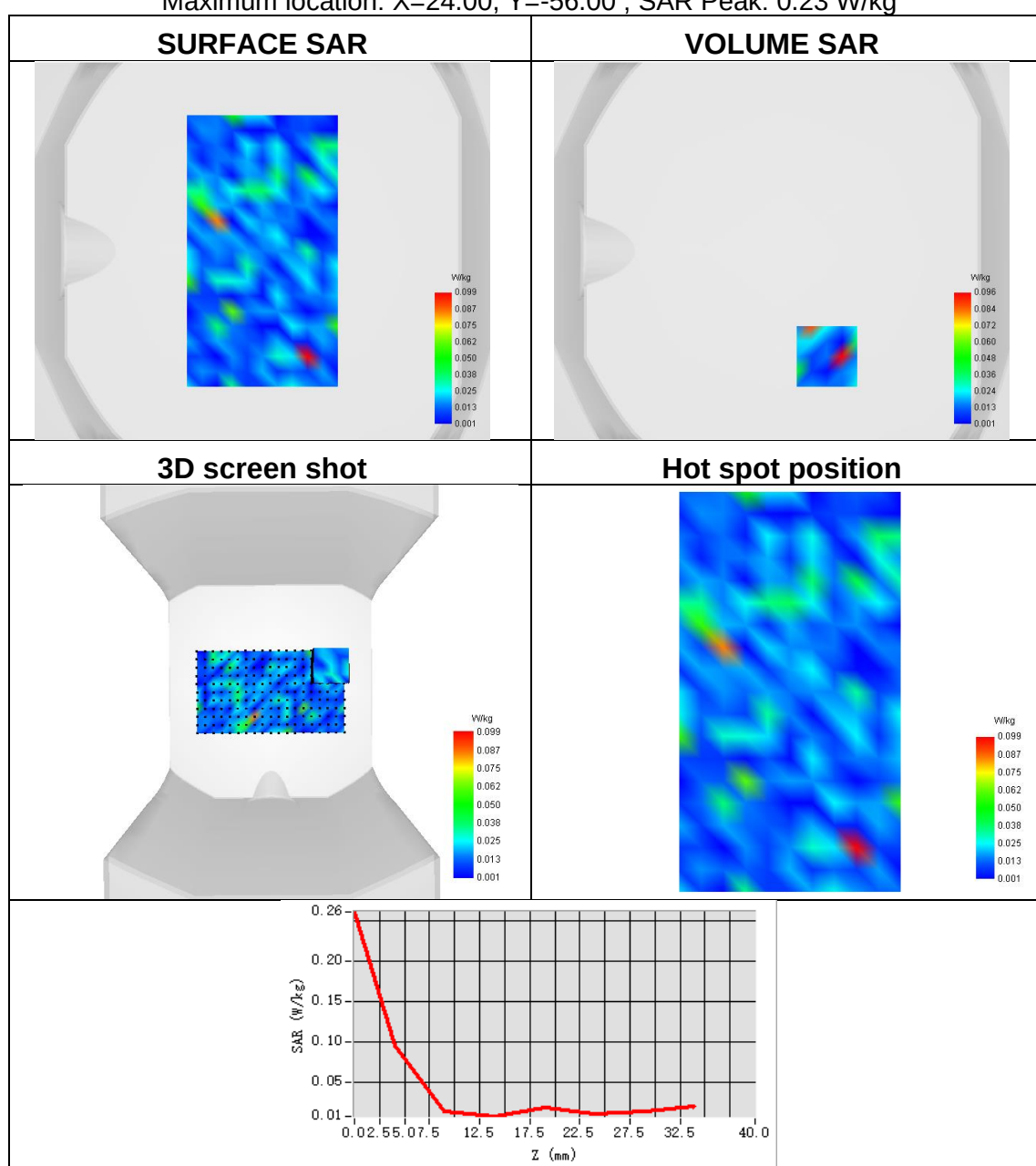




Plot 84:

Test Date	2024-09-10
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	NR band 40
Signal	NR TDD
Frequency	2340
SAR 10g (W/Kg)	0.018
SAR 1g (W/Kg)	0.066

Maximum location: X=24.00, Y=-56.00 ; SAR Peak: 0.23 W/kg

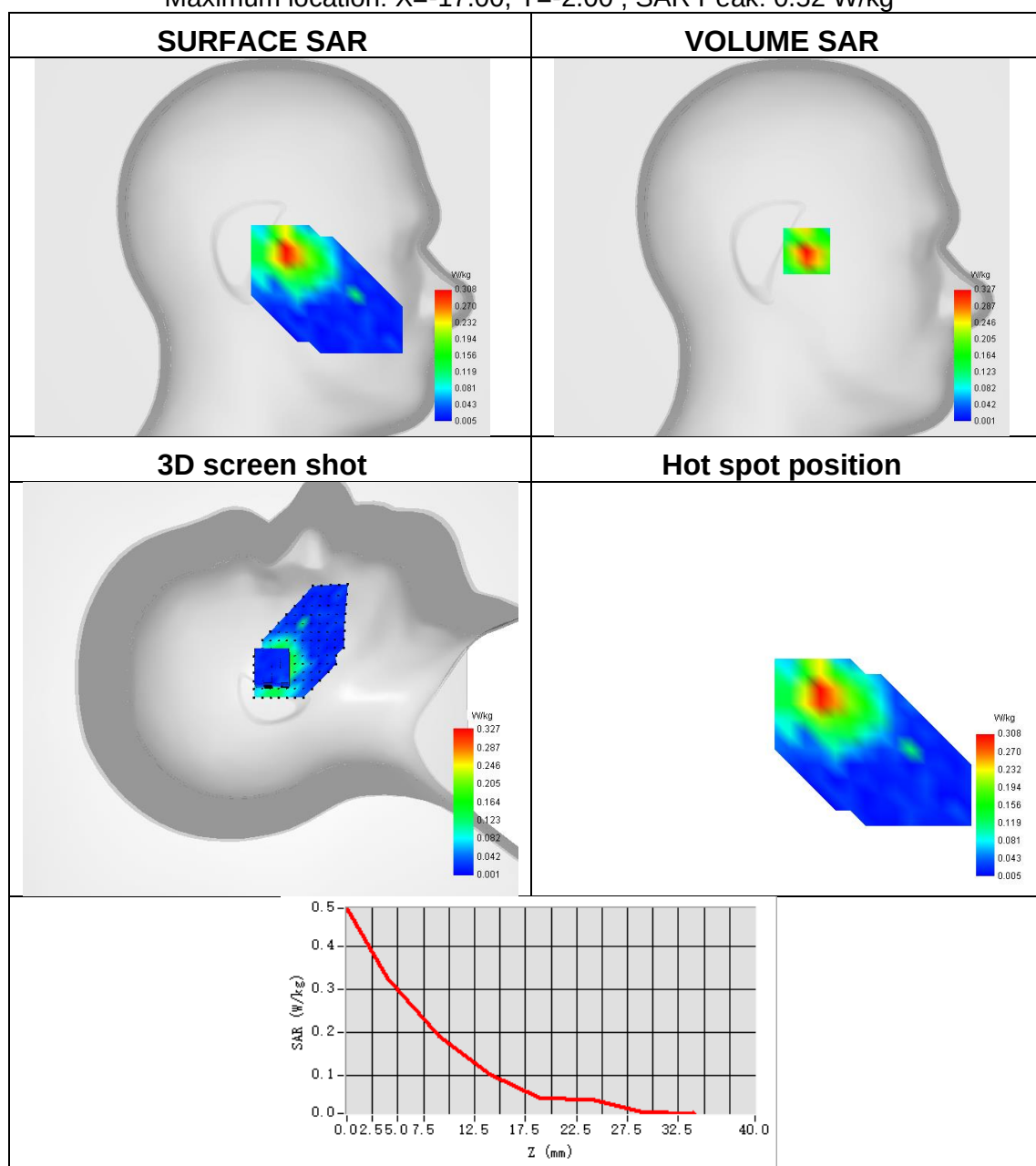




Plot 85:

Test Date	2024-09-03
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	NR band 41
Signal	NR TDD
Frequency	2595
SAR 10g (W/Kg)	0.140
SAR 1g (W/Kg)	0.297

Maximum location: X=-17.00, Y=-2.00 ; SAR Peak: 0.52 W/kg

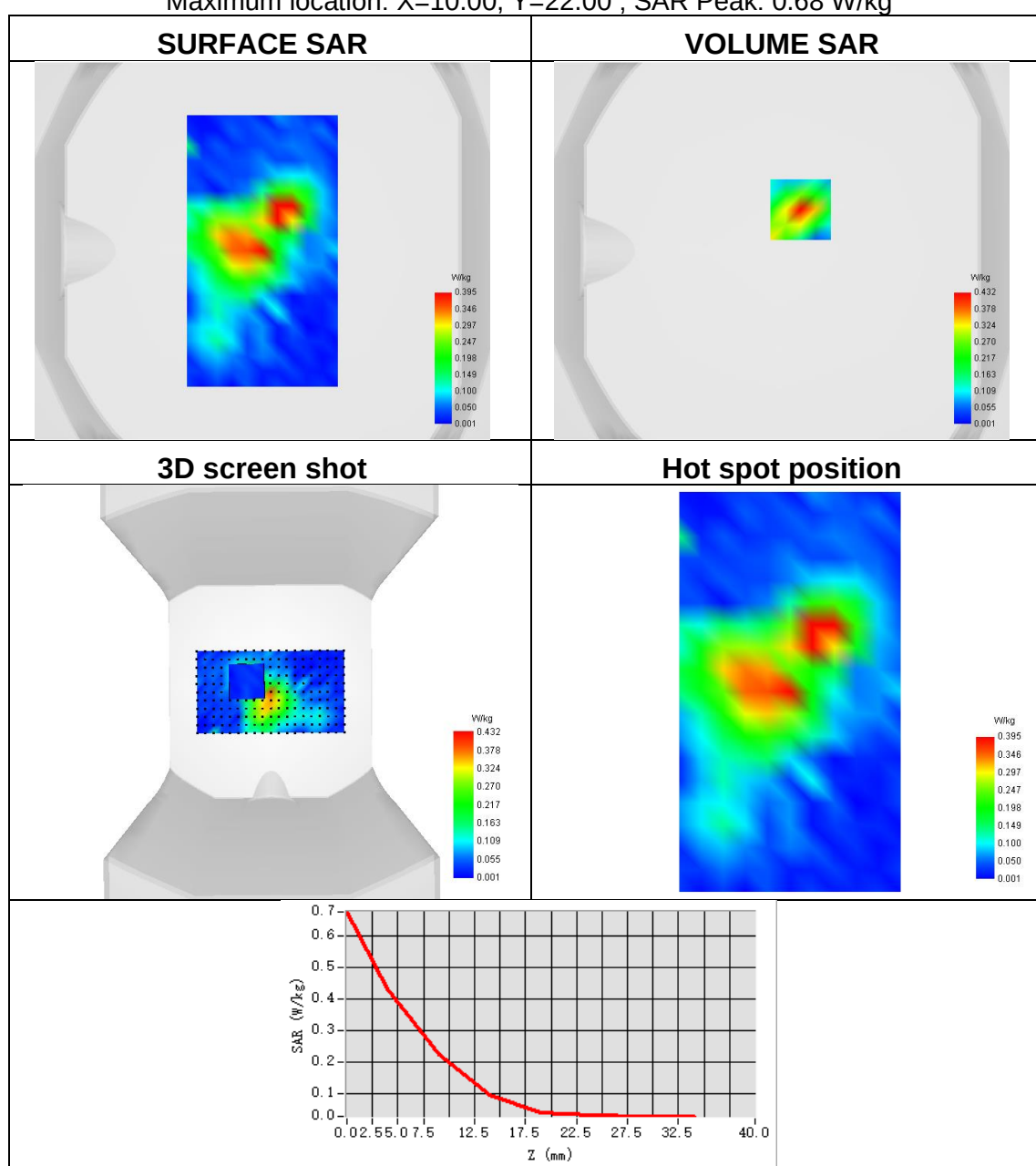




Plot 86:

Test Date	2024-09-03
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	NR band 41
Signal	NR TDD
Frequency	2595
SAR 10g (W/Kg)	0.174
SAR 1g (W/Kg)	0.382

Maximum location: X=10.00, Y=22.00 ; SAR Peak: 0.68 W/kg

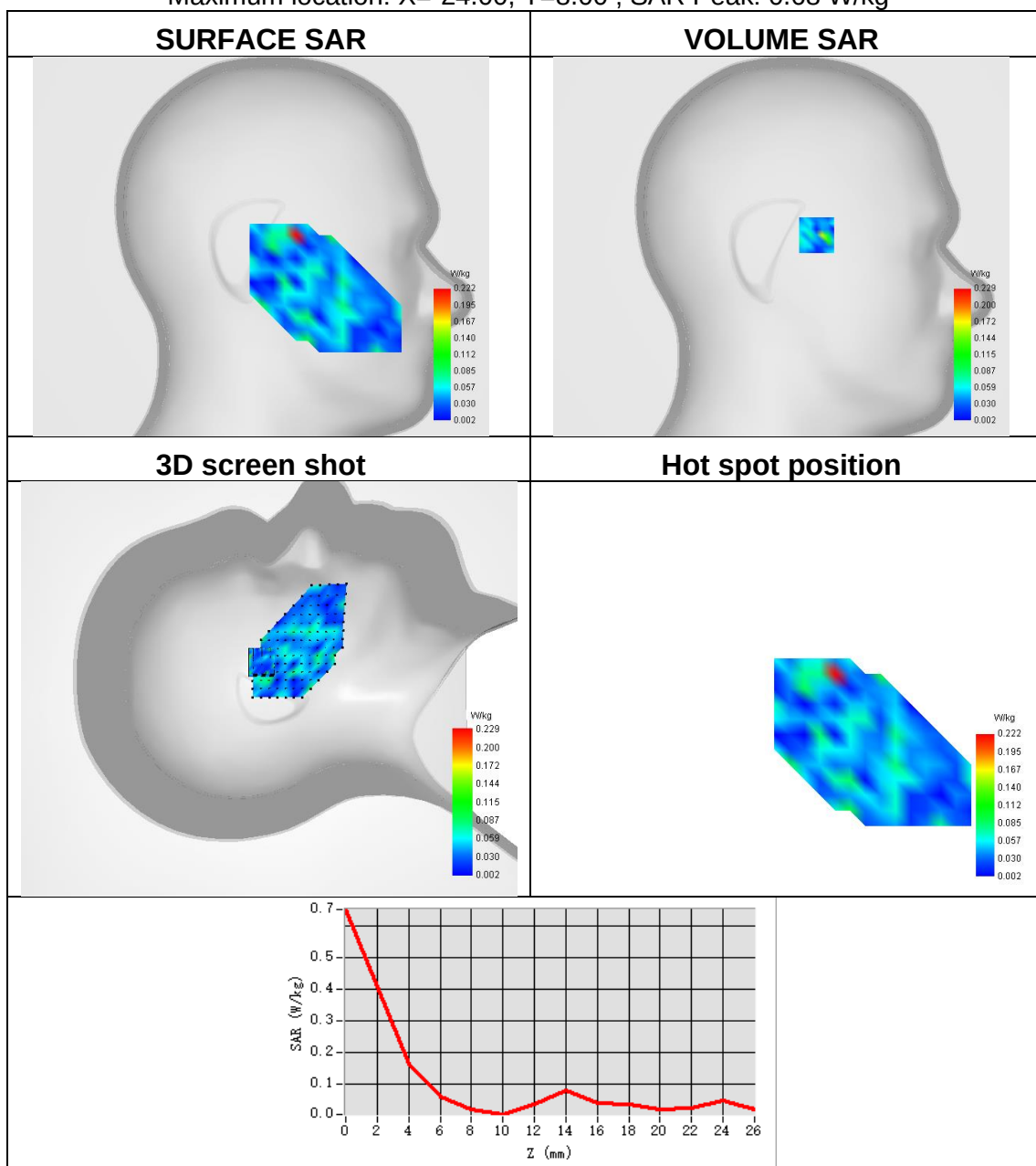




Plot 87:

Test Date	2024-09-10
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Left head
Device Position	Cheek
Band	NR band 77
Signal	NR TDD
Frequency	3800
SAR 10g (W/Kg)	0.039
SAR 1g (W/Kg)	0.095

Maximum location: X=-24.00, Y=8.00 ; SAR Peak: 0.68 W/kg

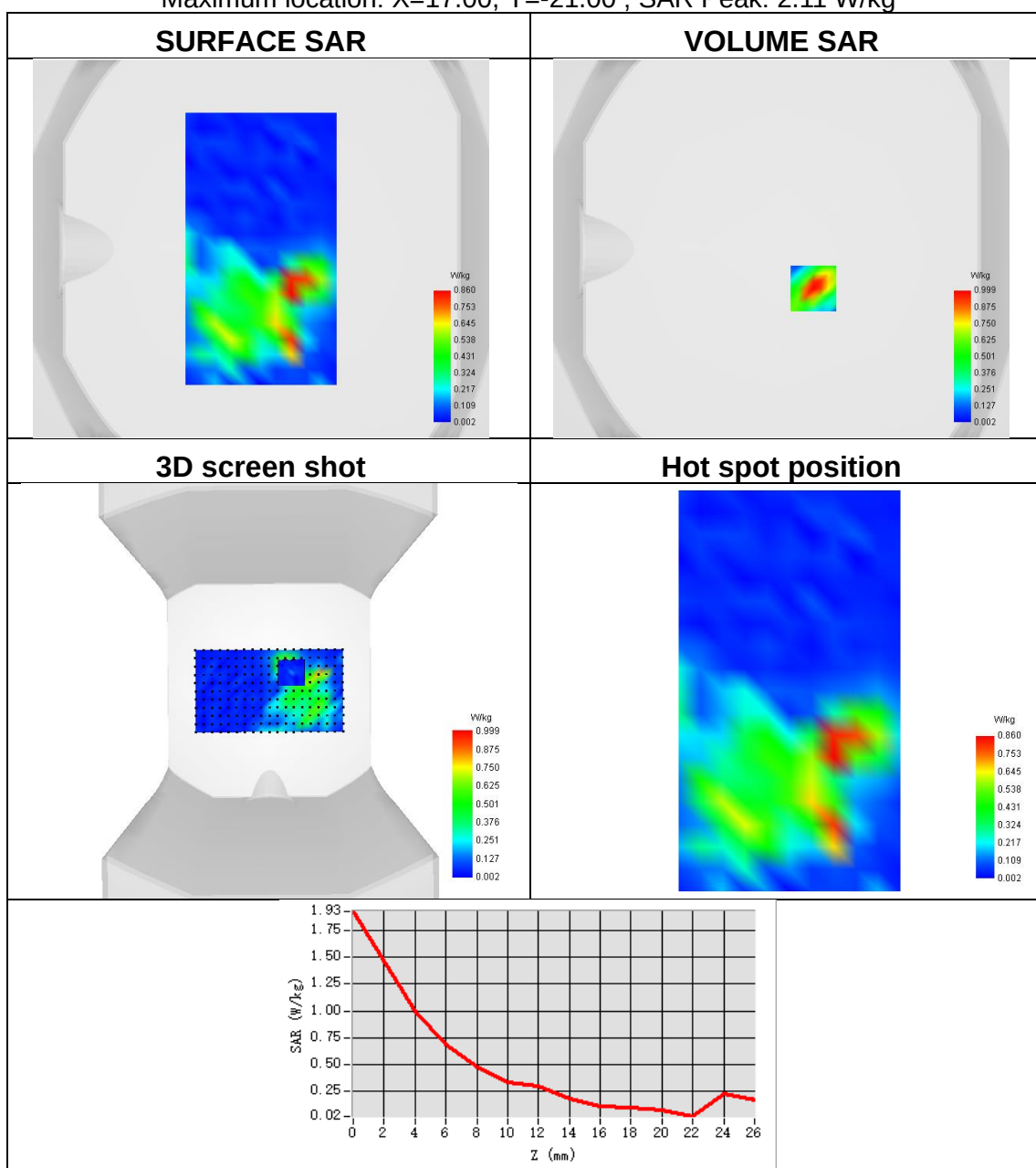




Plot 88:

Test Date	2024-09-10
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Back Side
Band	NR band 77
Signal	NR TDD
Frequency	3800
SAR 10g (W/Kg)	0.326
SAR 1g (W/Kg)	0.871

Maximum location: X=17.00, Y=-21.00 ; SAR Peak: 2.11 W/kg

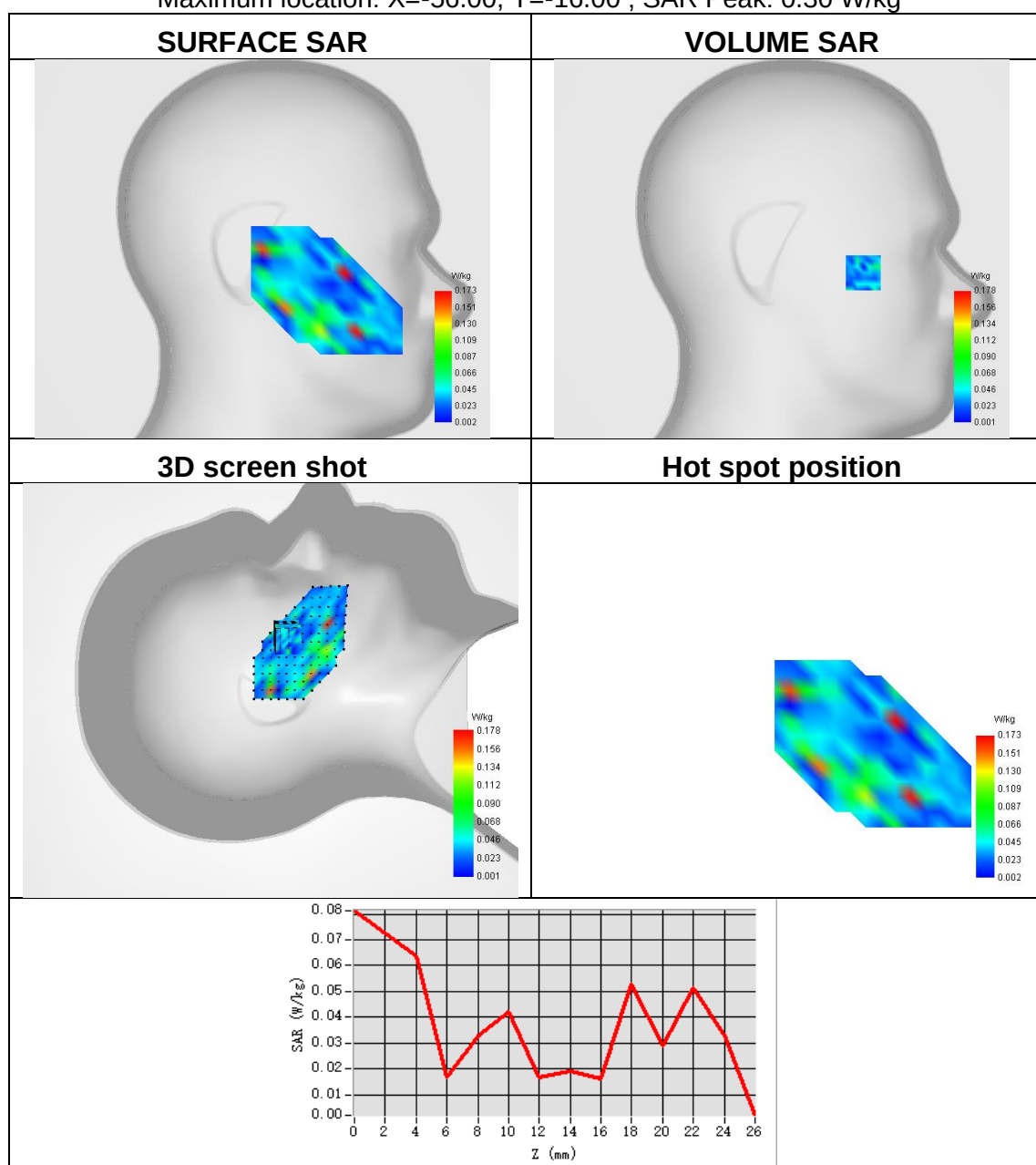




Plot 89:

Test Date	2024-09-10
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Left head
Device Position	Cheek
Band	NR band 78
Signal	NR TDD
Frequency	3750
SAR 10g (W/Kg)	0.026
SAR 1g (W/Kg)	0.063

Maximum location: X=-56.00, Y=-16.00 ; SAR Peak: 0.30 W/kg

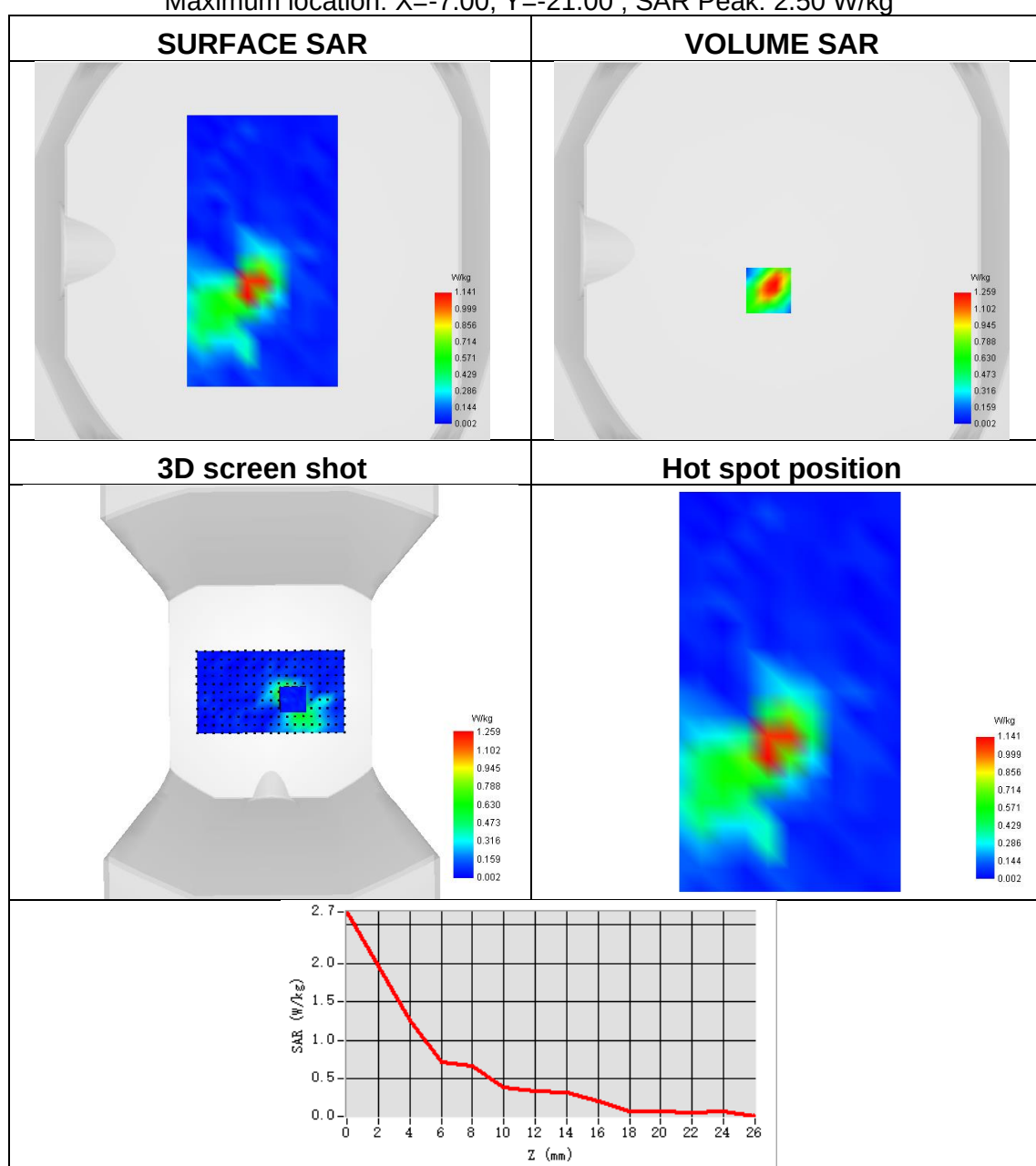




Plot 90:

Test Date	2024-09-10
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Back Side
Band	NR band 78
Signal	NR TDD
Frequency	3750
SAR 10g (W/Kg)	0.381
SAR 1g (W/Kg)	1.047

Maximum location: X=-7.00, Y=-21.00 ; SAR Peak: 2.50 W/kg





Appendix C. Probe Calibration and Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※※END OF THE REPORT※※※※※