



12.5 Simultaneous Multi-band Transmission Evaluation

Application Simultaneous Transmission information:

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

NOTE:

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

Estimated SAR		Maximum Turn-up Power		Antenna to user(mm)	Frequency (GHz)	Stand Alone SAR(1g) [W/kg]
		dBm	mW			
BT	Head	4.3	2.692	5	2.44	0.112
	Body			5	2.44	0.112
NFC	Head	-37.5	0.000178	5	0.01356	0.0000006
	Body			5	0.01356	0.0000006



Simultaneous Mode	Position	Mode	Max. 1-g SAR	1-g Sum SAR
			(W/kg)	(W/kg)
GSM + 2.4G WLAN + NFC	Head	GSM	0.343	0.577
		NFC	0.0000006	
		2.4G WLAN	0.234	
	Body	GSM	0.520	0.668
		NFC	0.0000006	
		2.4G WLAN	0.148	
GSM + Bluetooth+ NFC	Head	GSM	0.343	0.455
		NFC	0.0000006	
		BT	0.112	
	Body	GSM	0.520	0.632
		NFC	0.0000006	
		BT	0.112	
GSM + 5G WLAN+ NFC	Head	GSM	0.343	0.796
		NFC	0.0000006	
		5G WLAN	0.453	
	Body	GSM	0.520	0.839
		NFC	0.0000006	
		5G WLAN	0.319	
WCDMA + 2.4G WLAN + NFC	Head	WCDMA	0.493	0.727
		NFC	0.0000006	
		2.4G WLAN	0.234	
	Body	WCDMA	0.469	0.617
		NFC	0.0000006	
		2.4G WLAN	0.148	
WCDMA + Bluetooth+ NFC	Head	WCDMA	0.493	0.605
		NFC	0.0000006	
		BT	0.112	
	Body	WCDMA	0.469	0.581
		NFC	0.0000006	
		BT	0.112	
WCDMA + 5G WLAN+ NFC	Head	WCDMA	0.493	0.946
		NFC	0.0000006	
		5G WLAN	0.453	
	Body	WCDMA	0.469	0.788
		NFC	0.0000006	
		5G WLAN	0.319	
LTE + 2.4G WLAN + NFC	Head	LTE	1.120	1.354
		NFC	0.0000006	
		2.4G WLAN	0.234	
	Body	LTE	1.024	1.172
		NFC	0.0000006	
		2.4G WLAN	0.148	
LTE + Bluetooth+ NFC	Head	LTE	1.120	1.232
		NFC	0.0000006	
		BT	0.112	
	Body	LTE	1.024	1.136
		NFC	0.0000006	



		BT	0.112	
LTE + 5G WLAN+ NFC	Head	LTE	1.120	1.573
		NFC	0.0000006	
		5G WLAN	0.453	
	Body	LTE	1.024	1.343
		NFC	0.0000006	
		5G WLAN	0.319	

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna.

When the sum of SAR 1g of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR-1g 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR 1g is greater than the SAR limit (SAR-1g 1.6 W/kg), SAR test exclusion is determined by the SPLSR.



13. Equipment List

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
750MHz Dipole	MVG	DIP0G750	SN 06/22 DIP0G750-638	2025.05.20	2028.05.19
835MHz Dipole	MVG	DIP0G835	SN 06/22 DIP0G835-639	2025.05.20	2028.05.19
1800MHz Dipole	MVG	DIP1G800	SN 06/22 DIP1G800-640	2025.05.20	2028.05.19
1900MHz Dipole	MVG	DIP1G900	SN 06/22 DIP1G900-641	2025.05.20	2028.05.19
2300MHz Dipole	MVG	DIP2G300	SN 06/22 DIP2G100-644	2025.05.20	2028.05.19
2450MHz Dipole	MVG	DIP2G450	SN 06/22 DIP2G450-645	2025.05.20	2028.05.19
2600MHz Dipole	MVG	DIP2G600	SN 06/22 DIP2G600-646	2025.05.20	2028.05.19
5000MHz Dipole	MVG	DIP5G000	SN 06/22 DIP5G000-653	2025.05.22	2028.05.21
E-Field Probe	MVG	SSE2	2225-EPGO-450	2025.06.06	2026.06.05
Liquid Calibration Kit	MVG	OCPG 87	SN 06/22 OCPG87	2025.06.02	2026.06.01
Antenna	MVG	ANTA 73	SN 06/22 ANTA 73	N/A	N/A
Ellipsoid Phantom	MVG	ELLI 51	SN 06/22 ELLI 51	N/A	N/A
Phantom	MVG	SAM 148	SN 06/22 SAM148	N/A	N/A
Phone holder	MVG	MSH 117	SN 06/22 MSH 117	N/A	N/A
Laptop positioner	MVG	LSH 36	SN 06/22 LSH 38	N/A	N/A
Directional coupler	SHW	SHWDCP	202203280013	N/A	N/A
Network Analyzer	ZVL	R&S	116184	2025.03.05	2026.03.04
Multi Meter	DMM6500	Keithley	4527252	2025.03.06	2026.03.05
Signal Generator	Keysight	N5182B	MY59100717	2025.03.05	2026.03.04
Wireless Communication Test Set	R&S	CMW500	137737	2025.03.05	2026.03.04
Power Sensor	R&S	Z11	116184	2025.03.05	2026.03.04
Electronic Temperature hygrometer	N/A	ST-W2318	N/A	2025.03.05	2026.03.04
Temperature hygrometer	N/A	TP101	N/A	2025.03.05	2026.03.04



Appendix A. System Validation Plots

System Performance Check Data (750MHz)

Type: Phone measurement (Complete)

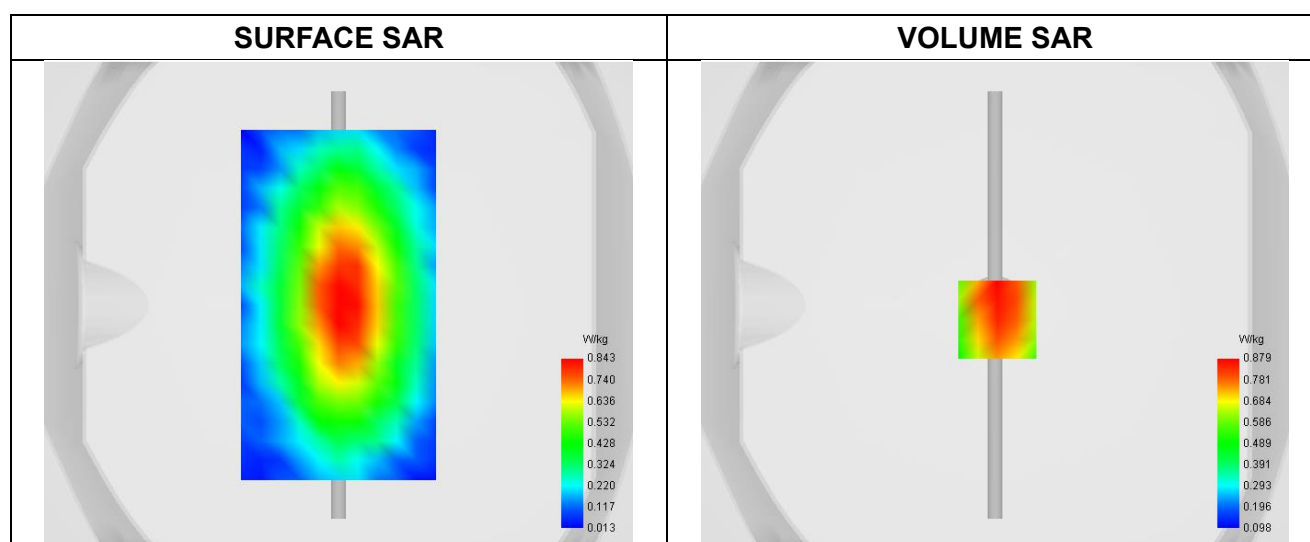
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2025-10-23

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW750
Channels	Middle
Signal	CW
Frequency (MHz)	750.000
Relative permittivity	42.61
Conductivity (S/m)	0.86
Probe	2225-EPGO-450
ConvF	1.08
Crest factor:	1:1

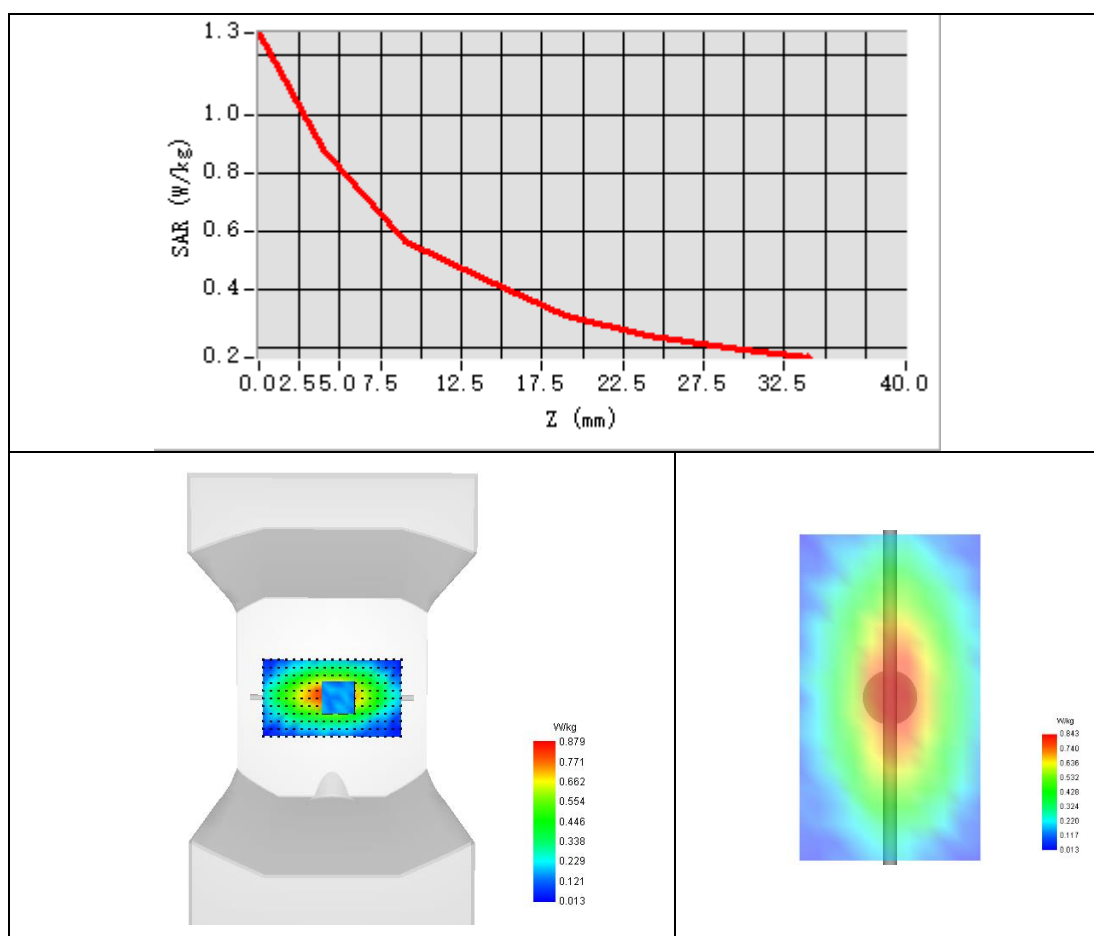


Maximum location: X=1.00, Y=-6.00 ; SAR Peak: 1.20 W/kg

SAR 10g (W/Kg)	0.563
SAR 1g (W/Kg)	0.864



Z Axis Scan





System Performance Check Data (750MHz)

Type: Phone measurement (Complete)

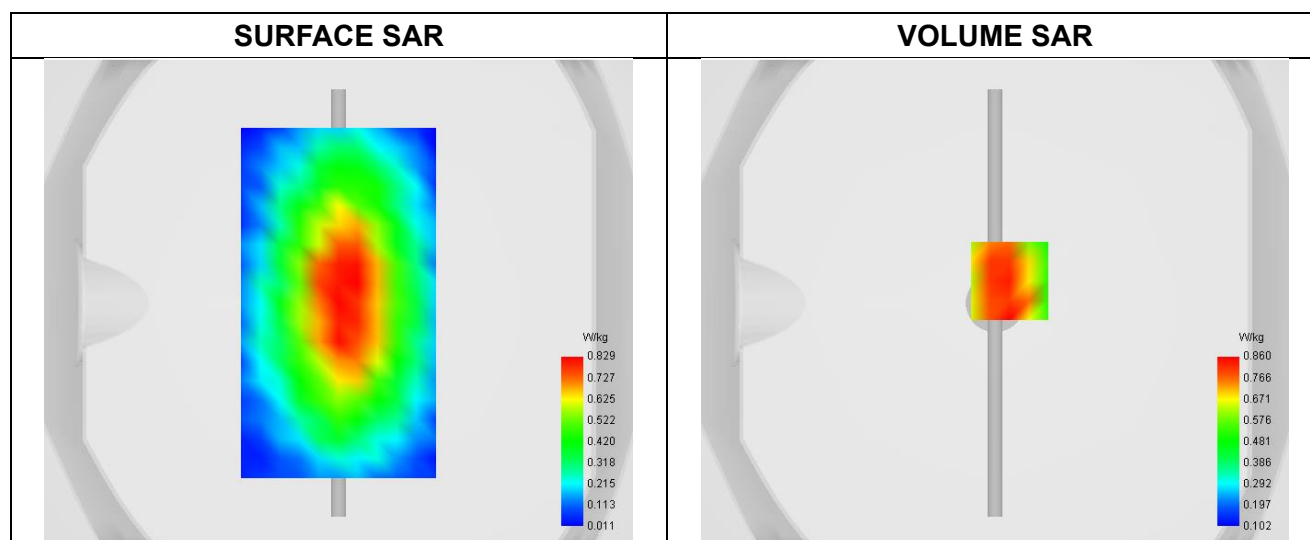
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2025-10-26

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW750
Channels	Middle
Signal	CW
Frequency (MHz)	750.000
Relative permittivity	42.84
Conductivity (S/m)	0.86
Probe	2225-EPGO-450
ConvF	1.08
Crest factor:	1:1

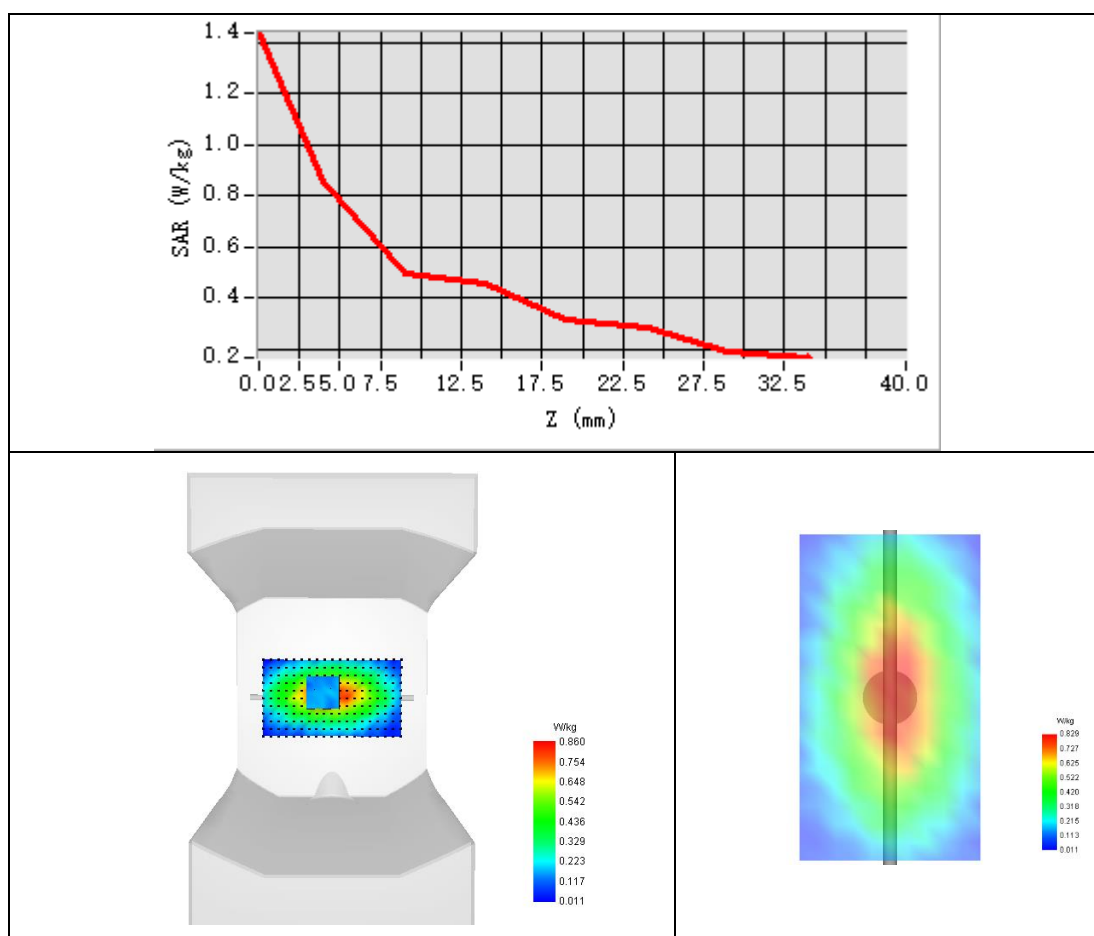


Maximum location: X=6.00, Y=9.00 ; SAR Peak: 1.23 W/kg

SAR 10g (W/Kg)	0.564
SAR 1g (W/Kg)	0.890



Z Axis Scan





System Performance Check Data (835MHz)

Type: Phone measurement (Complete)

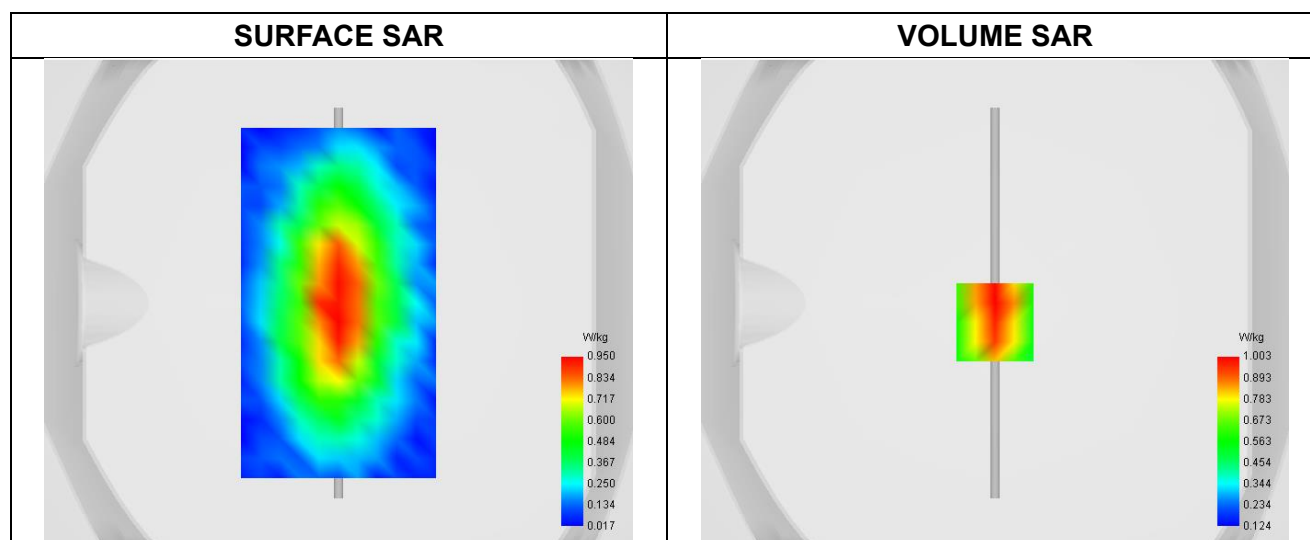
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2025-10-29

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW835
Channels	Middle
Signal	CW
Frequency (MHz)	835.000
Relative permittivity	42.67
Conductivity (S/m)	0.87
Probe	2225-EPGO-450
ConvF	1.02
Crest factor:	1:1

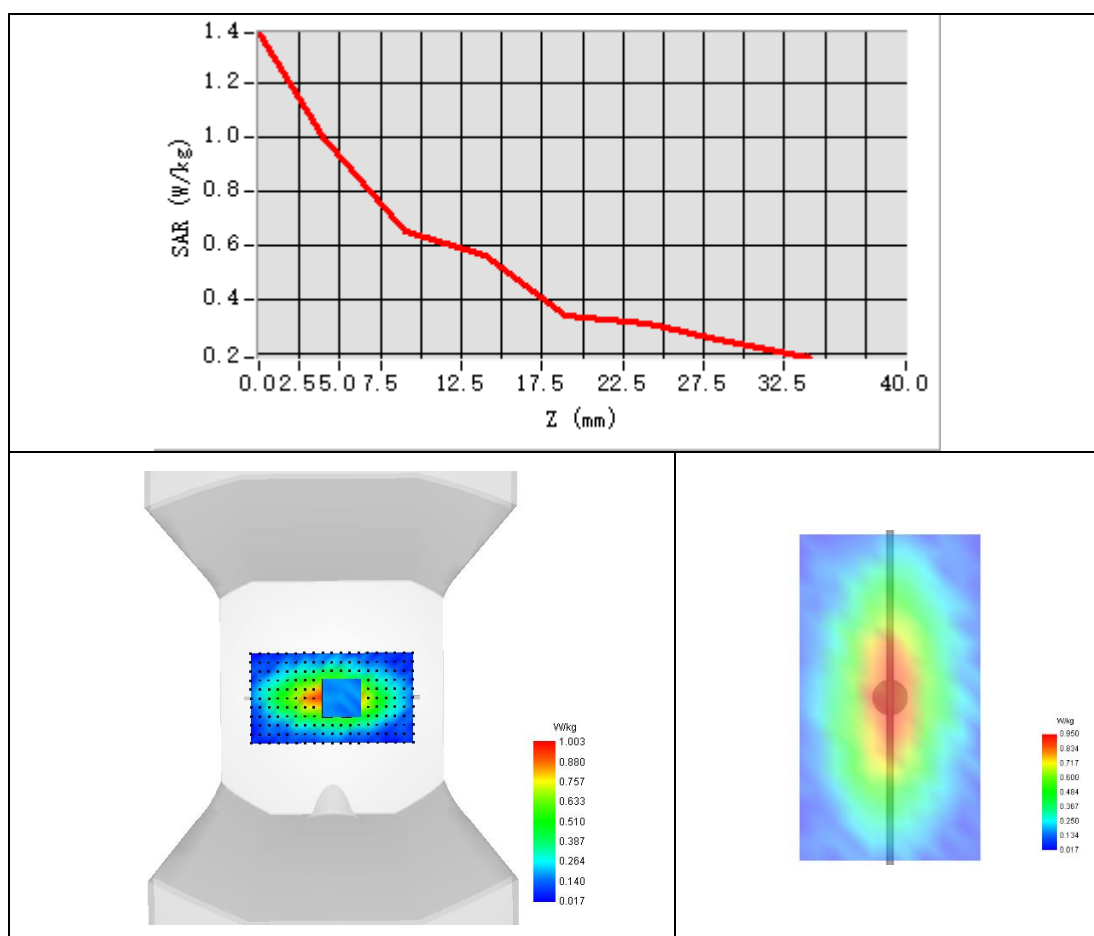


Maximum location: X=0.00, Y=-9.00 ; SAR Peak: 1.49 W/kg

SAR 10g (W/Kg)	0.600
SAR 1g (W/Kg)	0.948



Z Axis Scan





System Performance Check Data (1800MHz)

Type: Phone measurement (Complete)

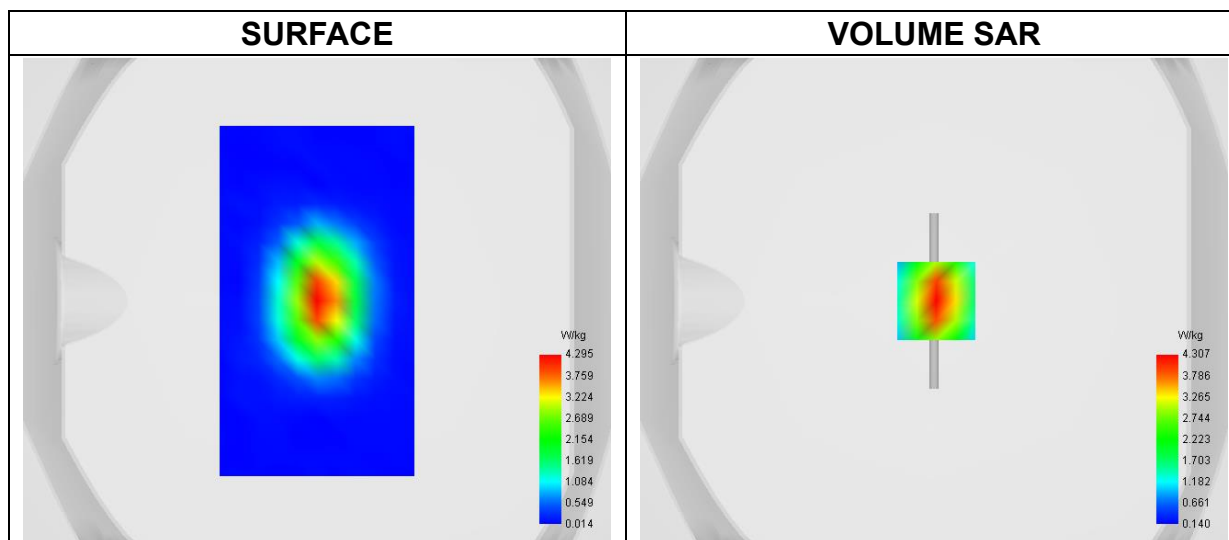
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement:2025-10-11

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW1800
Channels	Middle
Signal	CW
Frequency (MHz)	1800.000
Relative permittivity	41.05
Conductivity (S/m)	1.44
Probe	2225-EPGO-450
ConvF	1.21
Crest factor:	1:1

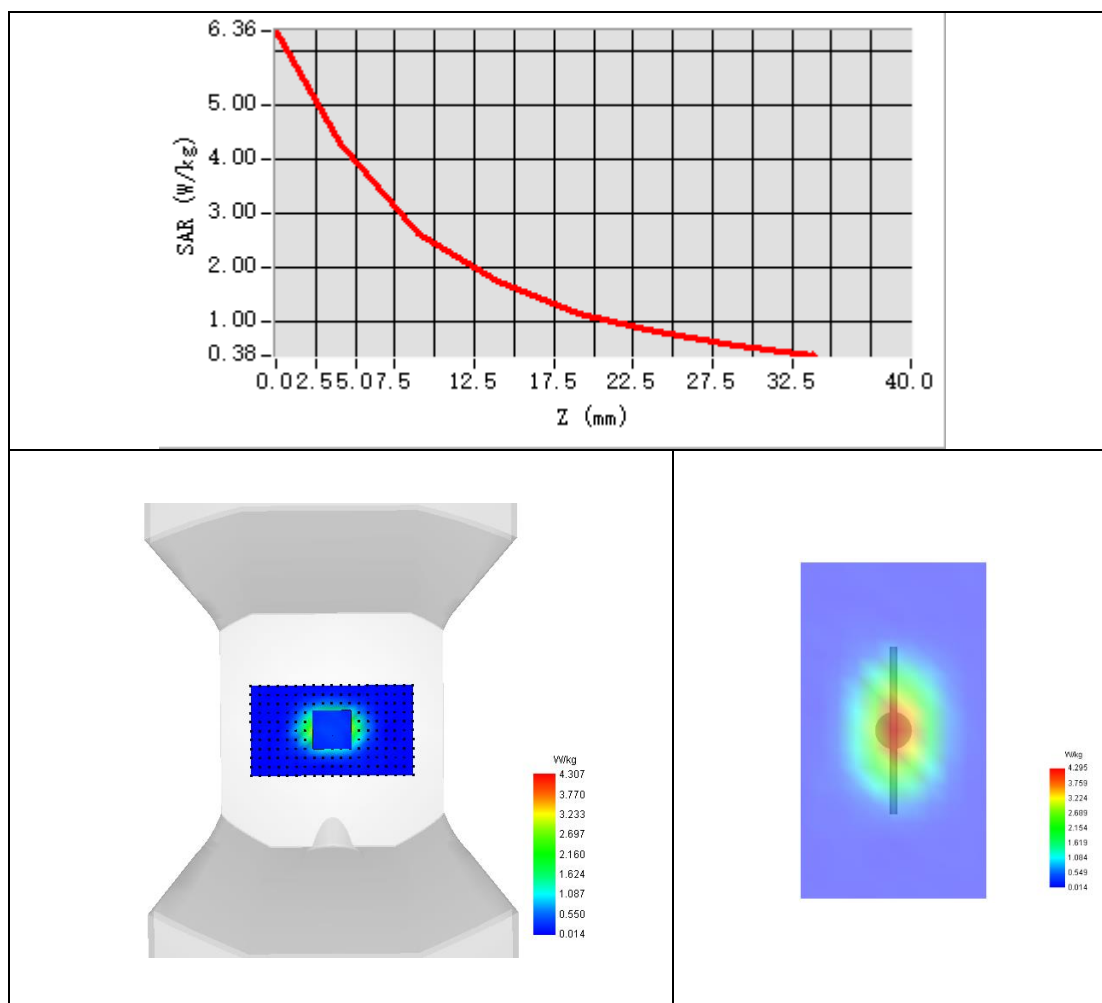


Maximum location: X=1.00, Y=0.00 ; SAR Peak: 6.32 W/kg

SAR 10g (W/Kg)	1.882
SAR 1g (W/Kg)	3.699



Z Axis Scan





System Performance Check Data (1900MHz)

Type: Phone measurement (Complete)

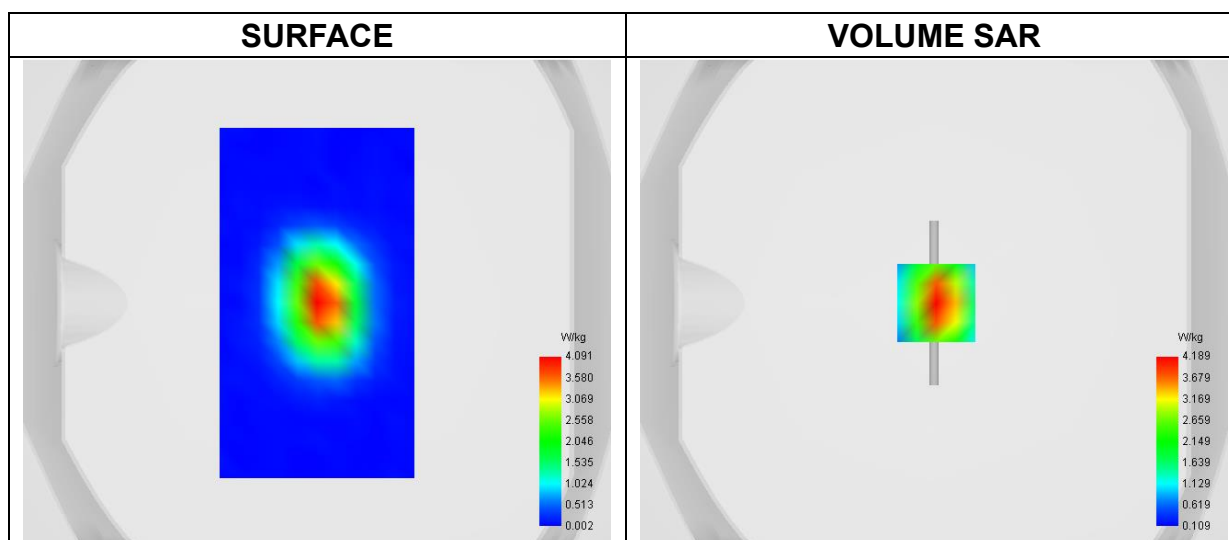
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement:2025-10-12

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW1900
Channels	Middle
Signal	CW
Frequency (MHz)	1900.000
Relative permittivity	40.25
Conductivity (S/m)	1.34
Probe	2225-EPGO-450
ConvF	1.34
Crest factor:	1:1

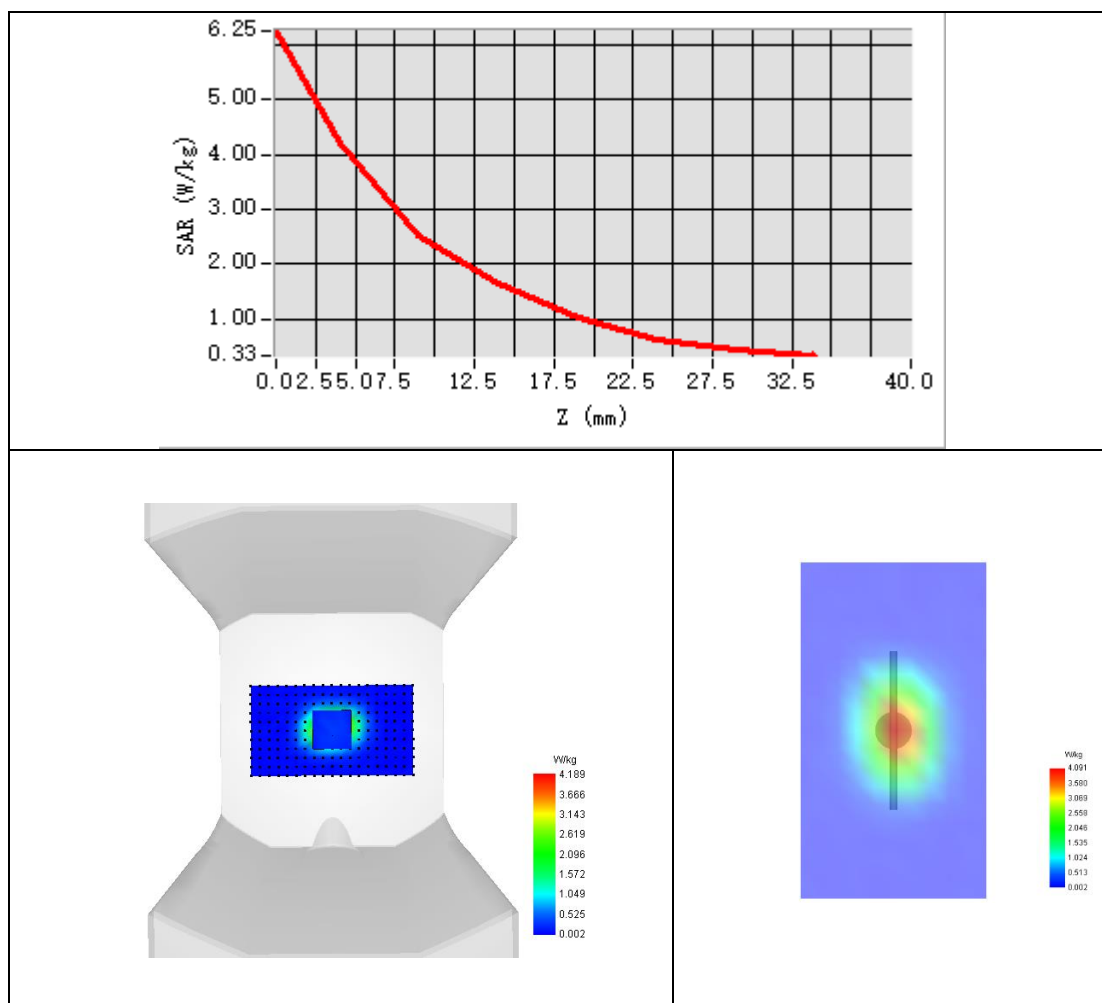


Maximum location: X=1.00, Y=0.00 ; SAR Peak: 6.27 W/kg

SAR 10g (W/Kg)	2.099
SAR 1g (W/Kg)	4.042



Z Axis Scan





System Performance Check Data (2300MHz)

Type: Phone measurement (Complete)

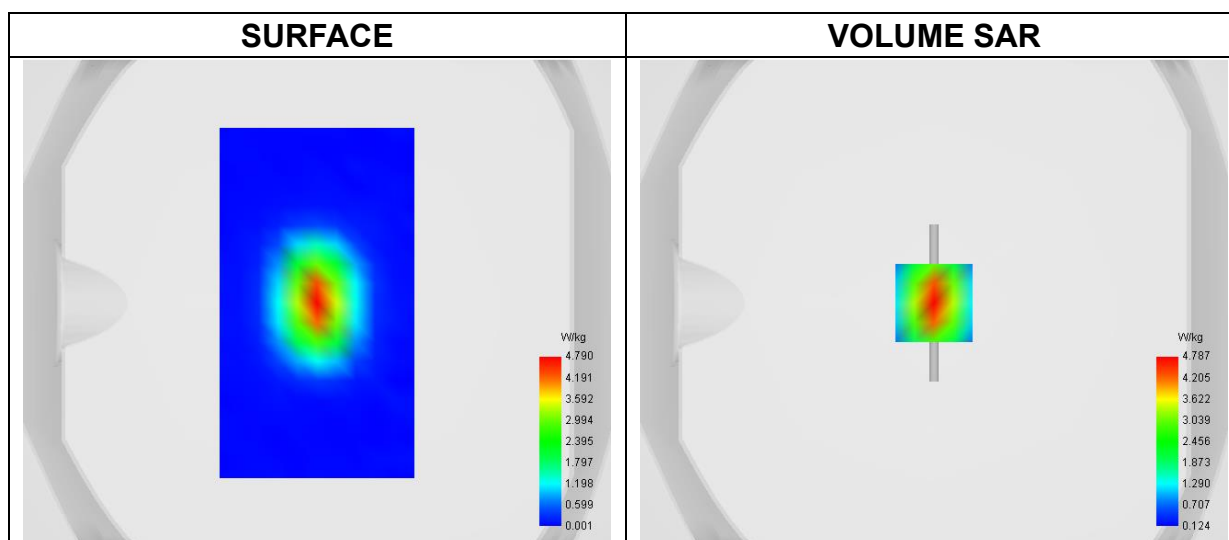
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement:2025-11-08

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW2300
Channels	Middle
Signal	CW
Frequency (MHz)	2300.000
Relative permittivity	40.00
Conductivity (S/m)	1.69
Probe	2225-EPGO-450
ConvF	1.47
Crest factor:	1:1

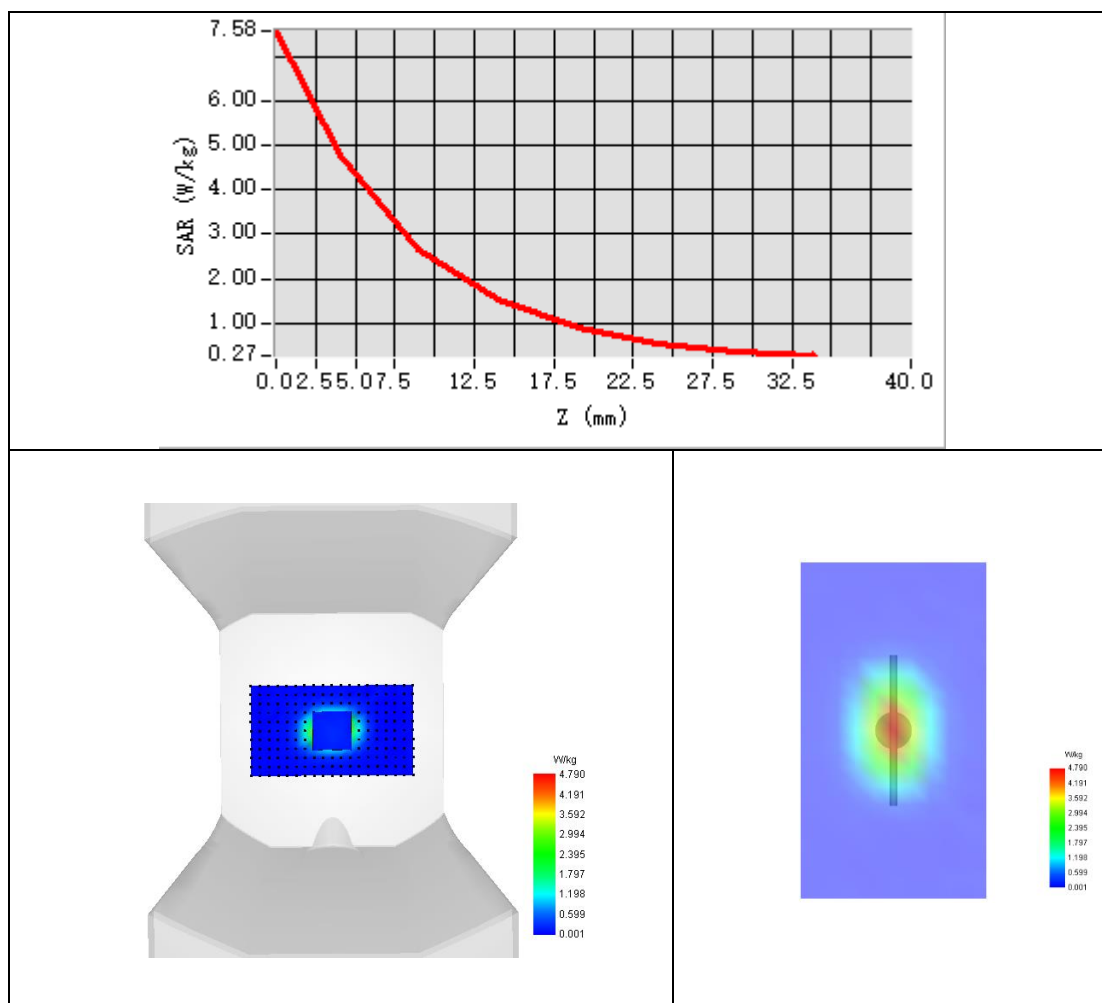


Maximum location: X=0.00, Y=0.00 ; SAR Peak: 8.51 W/kg

SAR 10g (W/Kg)	2.352
SAR 1g (W/Kg)	4.909



Z Axis Scan





System Performance Check Data (2450MHz)

Type: Phone measurement (Complete)

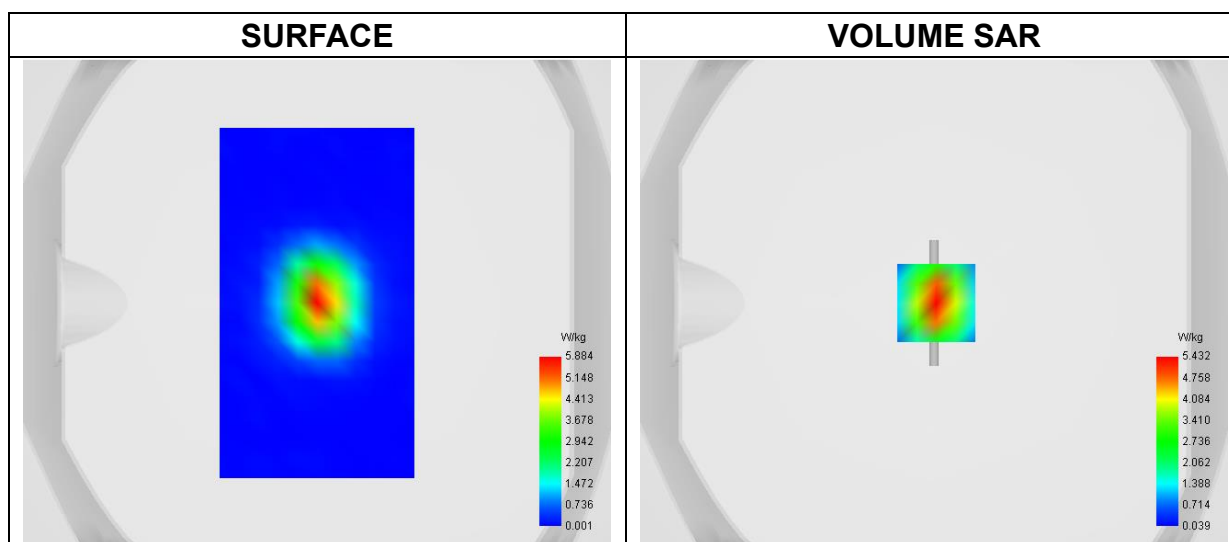
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement:2025-11-08

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW2450
Channels	Middle
Signal	CW
Frequency (MHz)	2450.000
Relative permittivity	39.54
Conductivity (S/m)	1.88
Probe	2225-EPGO-450
ConvF	1.51
Crest factor:	1:1

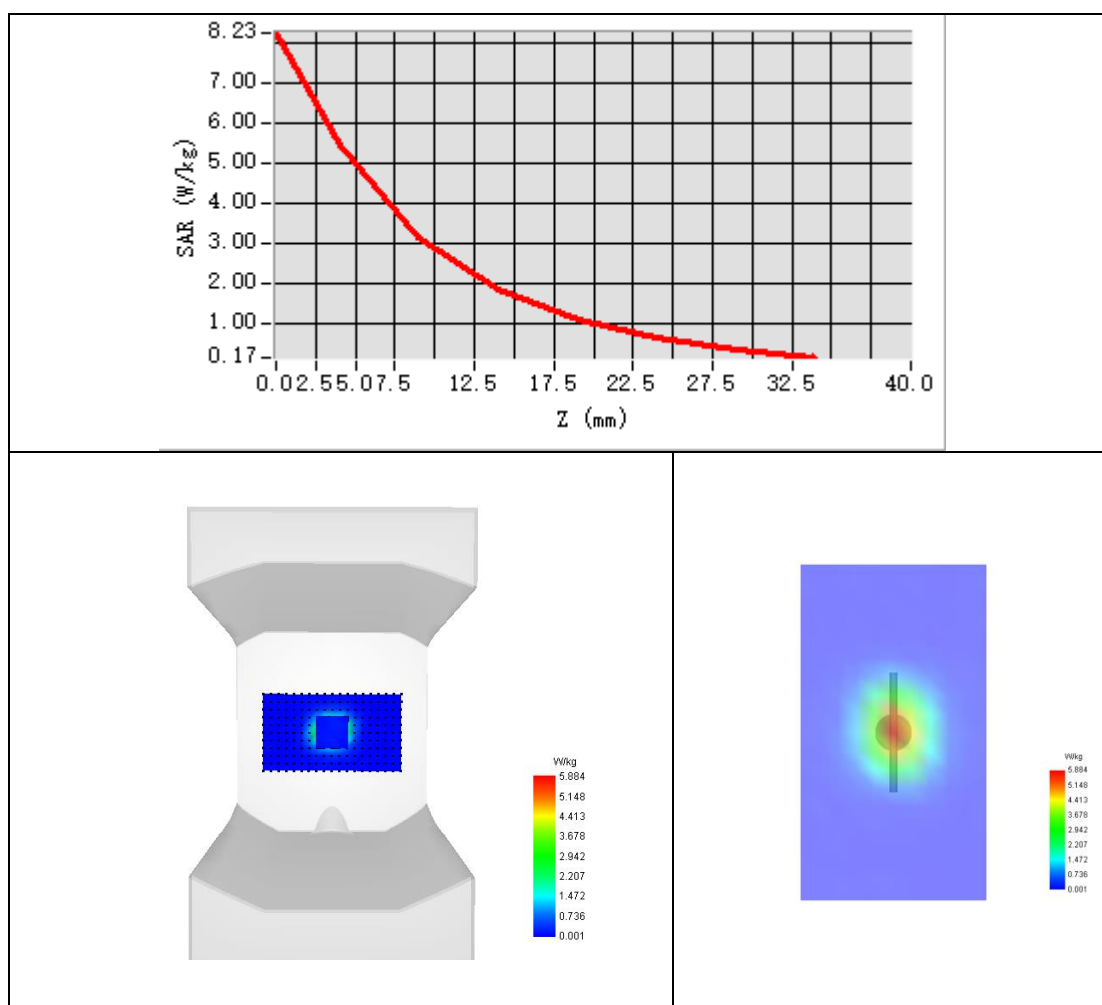


Maximum location: X=1.00, Y=0.00 ; SAR Peak: 8.27 W/kg

SAR 10g (W/Kg)	2.428
SAR 1g (W/Kg)	5.296



Z Axis Scan





System Performance Check Data (2600MHz)

Type: Phone measurement (Complete)

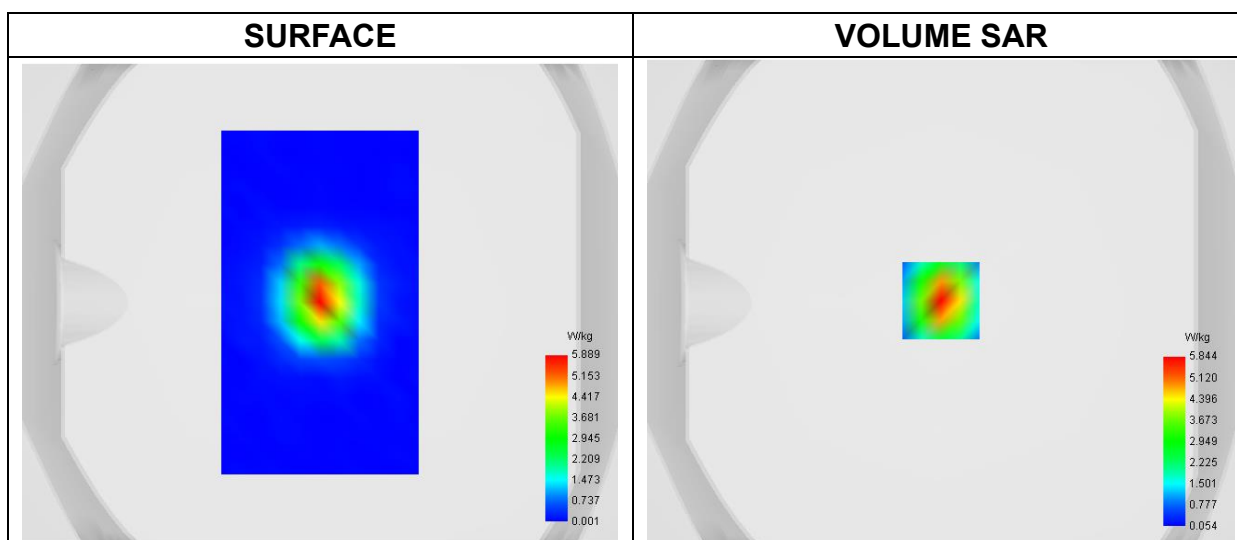
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement:2025-11-13

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW2600
Channels	Middle
Signal	CW
Frequency (MHz)	2600.000
Relative permittivity	39.89
Conductivity (S/m)	1.96
Probe	2225-EPGO-450
ConvF	1.44
Crest factor:	1:1

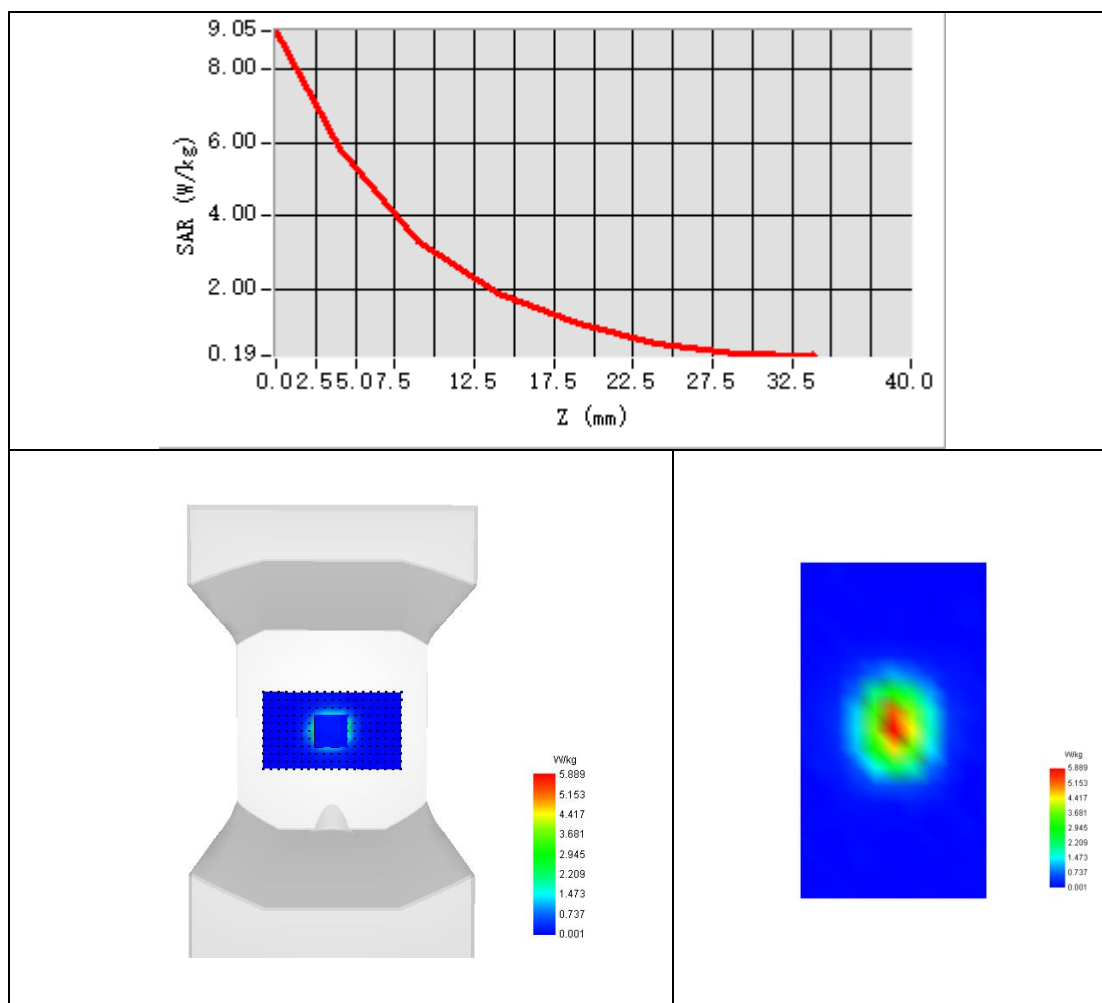


Maximum location: X=0.00, Y=1.00 ; SAR Peak: 9.00 W/kg

SAR 10g (W/Kg)	2.538
SAR 1g (W/Kg)	5.578



Z Axis Scan





System Performance Check Data (2600MHz)

Type: Phone measurement (Complete)

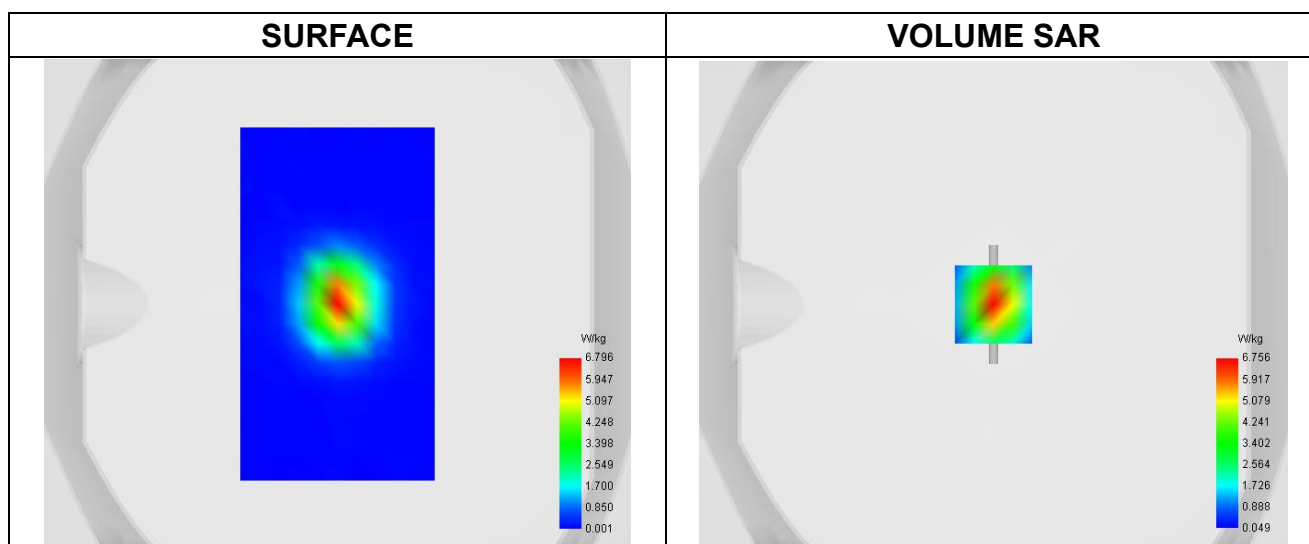
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement:2025-11-16

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW2600
Channels	Middle
Signal	CW
Frequency (MHz)	2600.000
Relative permittivity	39.58
Conductivity (S/m)	2.00
Probe	2225-EPGO-450
ConvF	1.44
Crest factor:	1:1

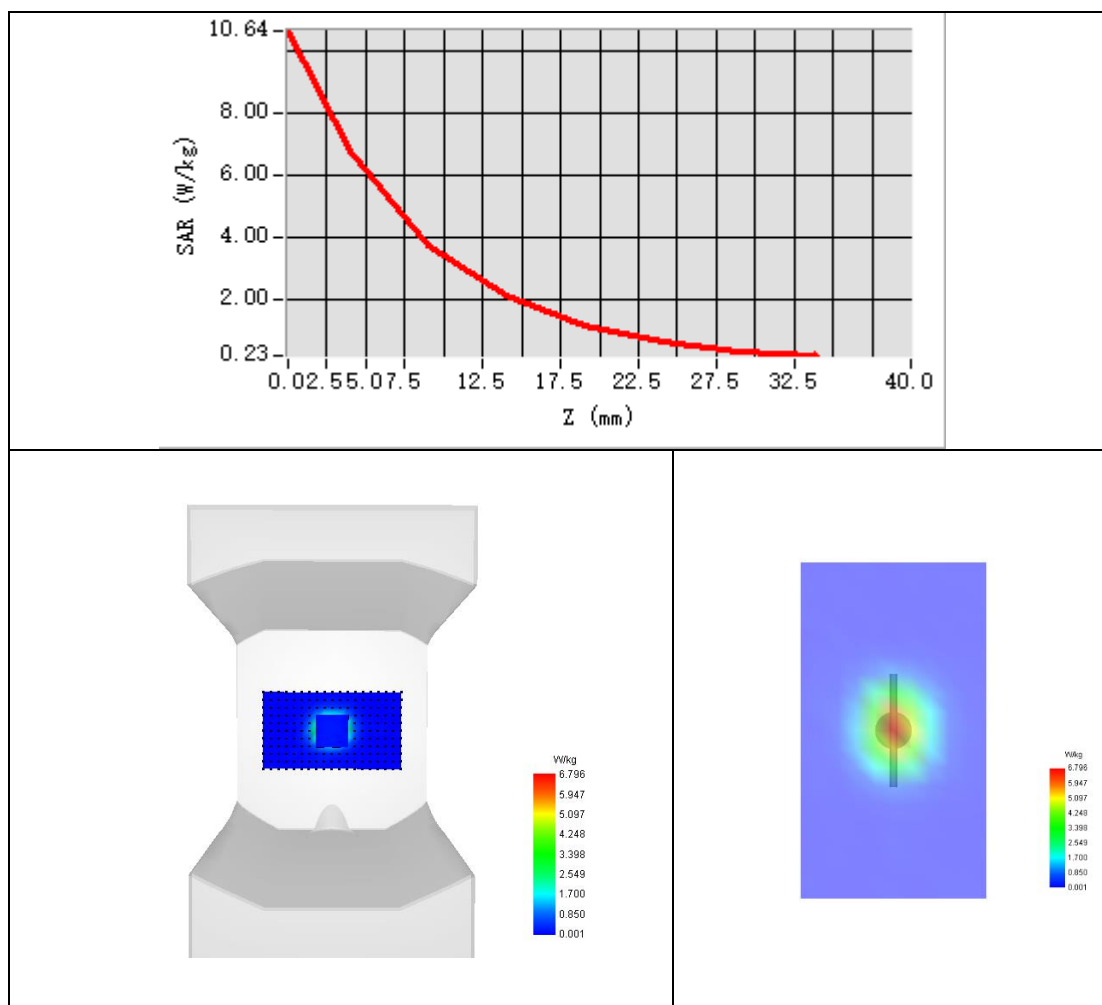


Maximum location: X=0.00, Y=0.00 ; SAR Peak: 10.62 W/kg

SAR 10g (W/Kg)	2.523
SAR 1g (W/Kg)	5.582



Z Axis Scan





System Performance Check Data (5200MHz)

Type: Phone measurement (Complete)

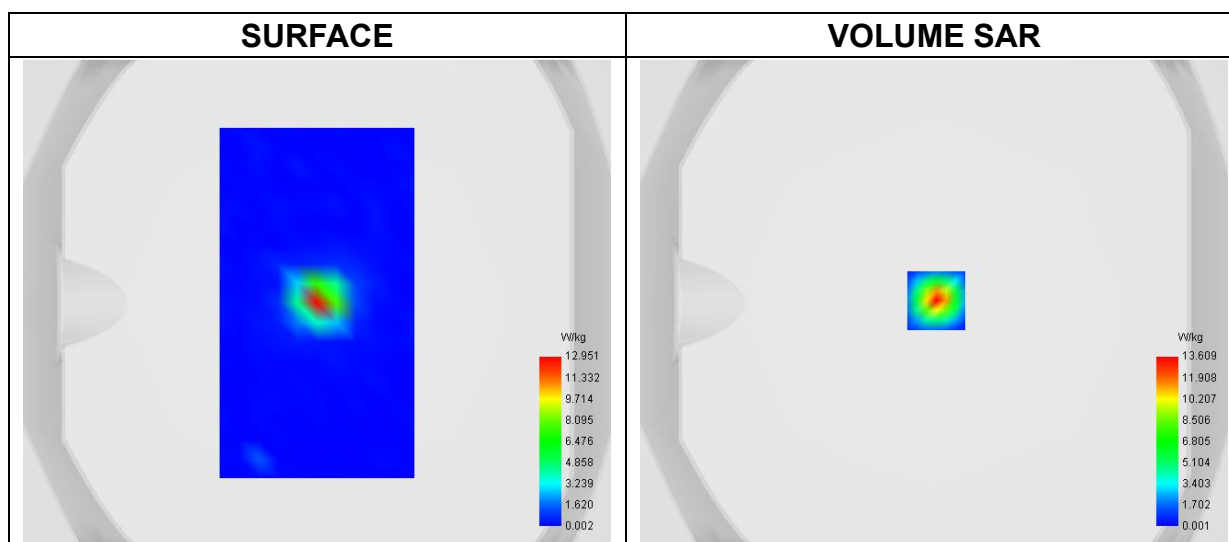
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement:2025-11-13

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW5200
Channels	Middle
Signal	CW
Frequency (MHz)	5200.000
Relative permittivity	36.24
Conductivity (S/m)	4.67
Probe	2225-EPGO-450
ConvF	1.58
Crest factor:	1:1

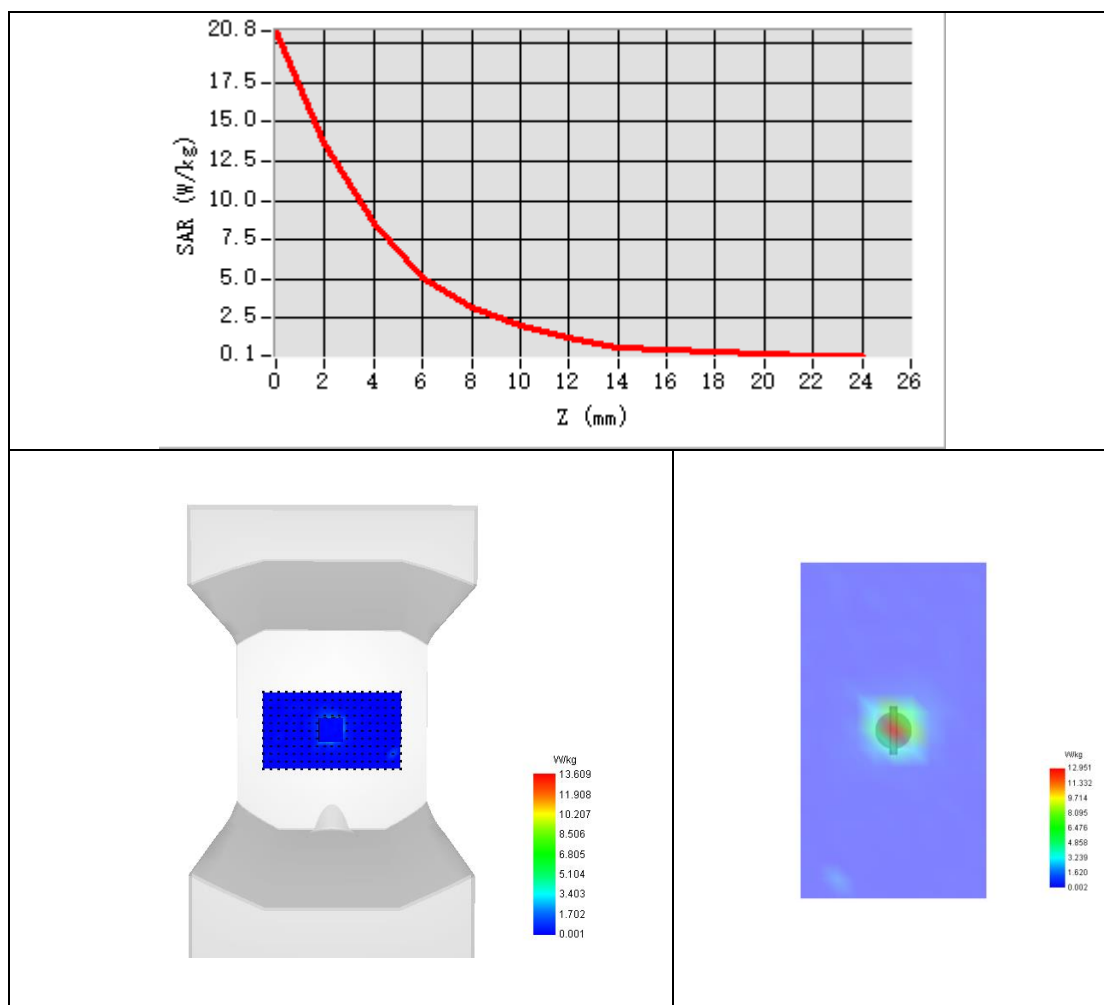


Maximum location: X=1.00, Y=1.00 ; SAR Peak: 21.42 W/kg

SAR 10g (W/Kg)	2.265
SAR 1g (W/Kg)	7.791



Z Axis Scan





System Performance Check Data (5400MHz)

Type: Phone measurement (Complete)

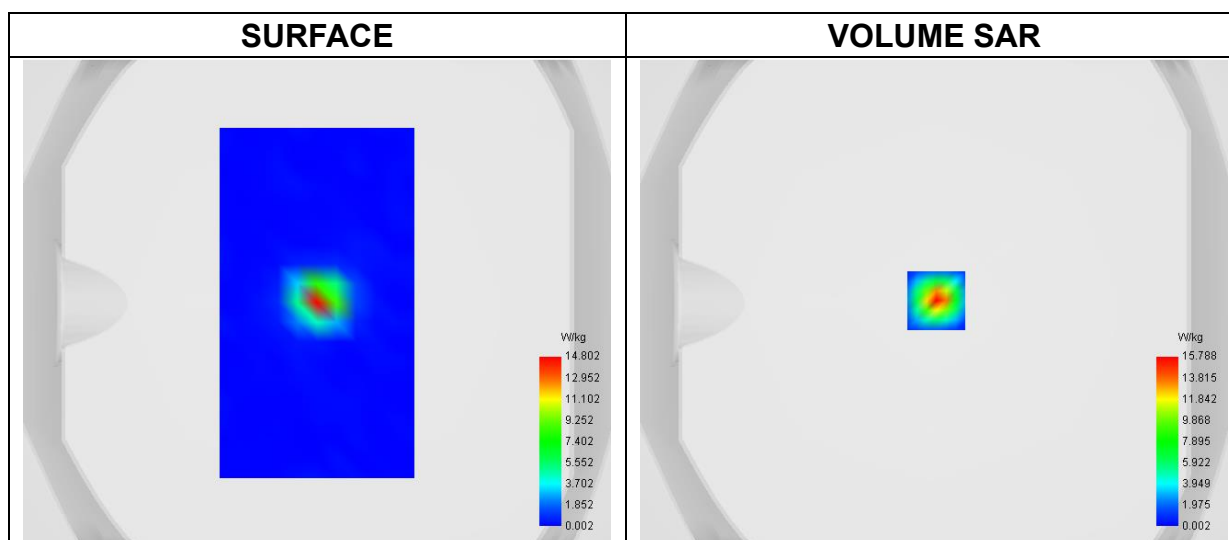
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement:2025-11-13

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW5400
Channels	Middle
Signal	CW
Frequency (MHz)	5400.000
Relative permittivity	36.55
Conductivity (S/m)	4.83
Probe	2225-EPGO-450
ConvF	1.60
Crest factor:	1:1

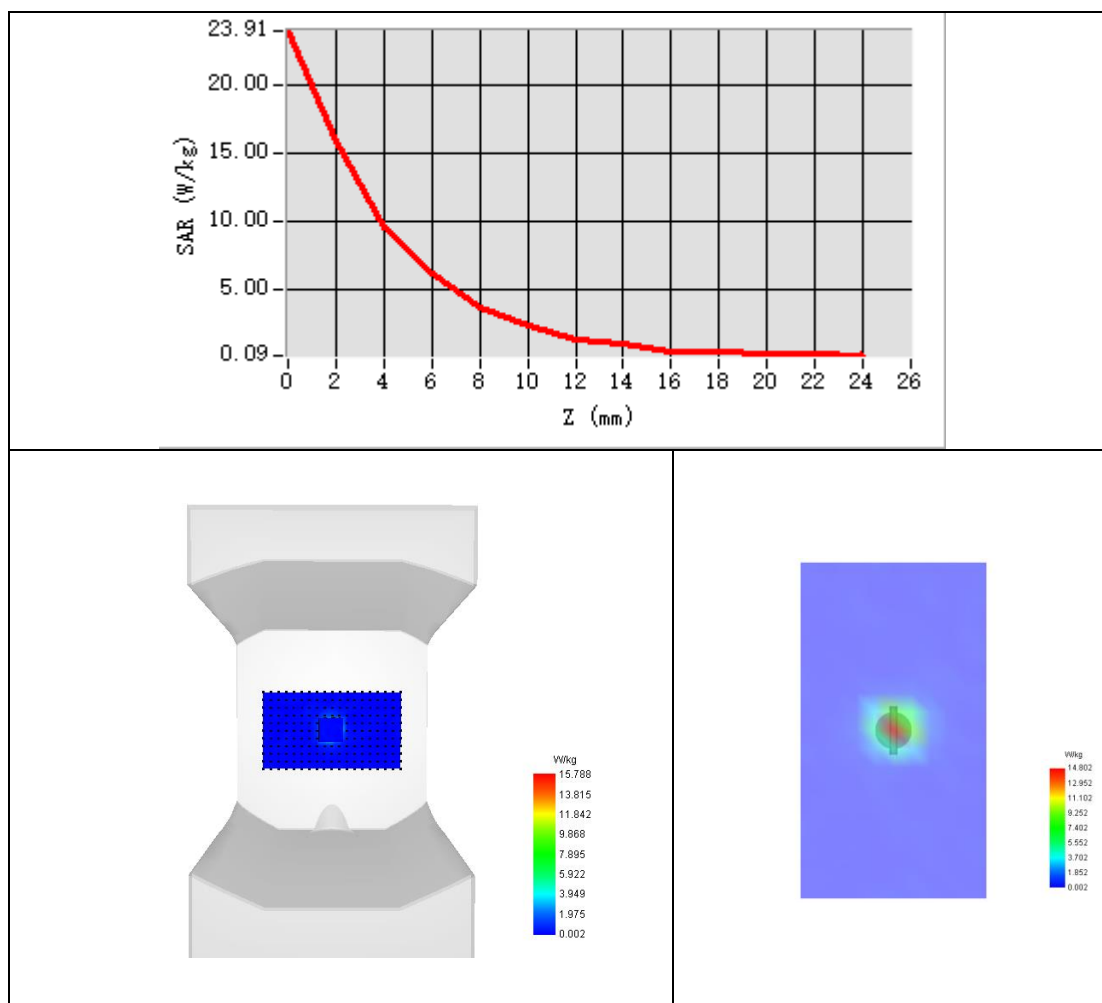


Maximum location: X=1.00, Y=1.00 ; SAR Peak: 25.40 W/kg

SAR 10g (W/Kg)	2.248
SAR 1g (W/Kg)	7.696



Z Axis Scan





System Performance Check Data (5600MHz)

Type: Phone measurement (Complete)

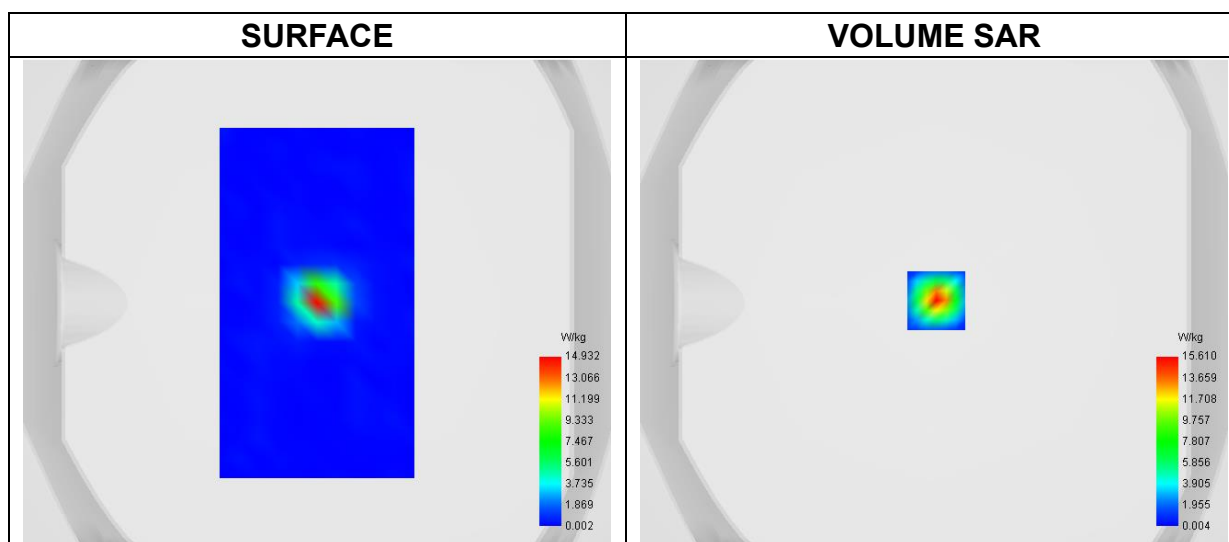
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement:2025-11-14

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW5600
Channels	Middle
Signal	CW
Frequency (MHz)	5600.000
Relative permittivity	35.79
Conductivity (S/m)	5.09
Probe	2225-EPGO-450
ConvF	1.63
Crest factor:	1:1

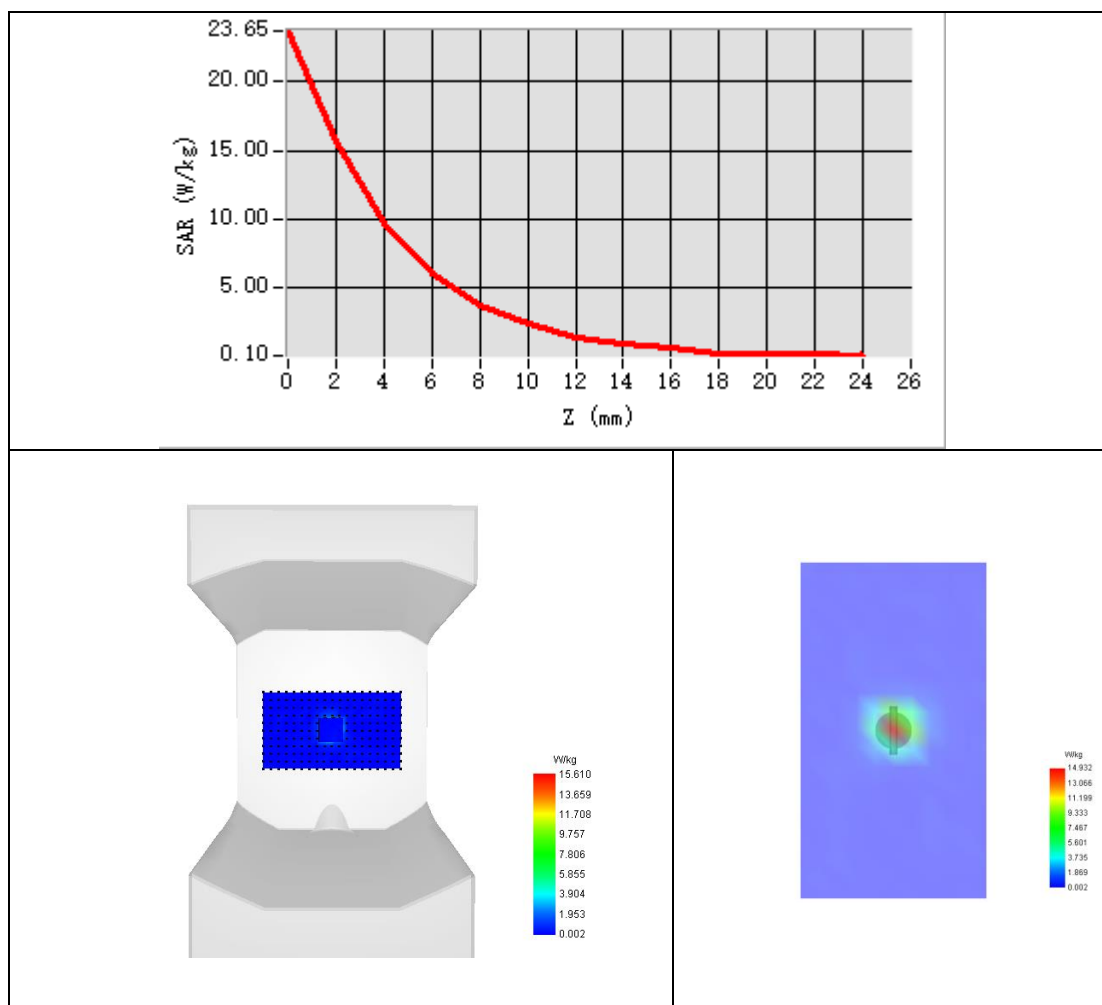


Maximum location: X=1.00, Y=1.00 ; SAR Peak: 23.94 W/kg

SAR 10g (W/Kg)	2.405
SAR 1g (W/Kg)	8.232



Z Axis Scan





System Performance Check Data (5800MHz)

Type: Phone measurement (Complete)

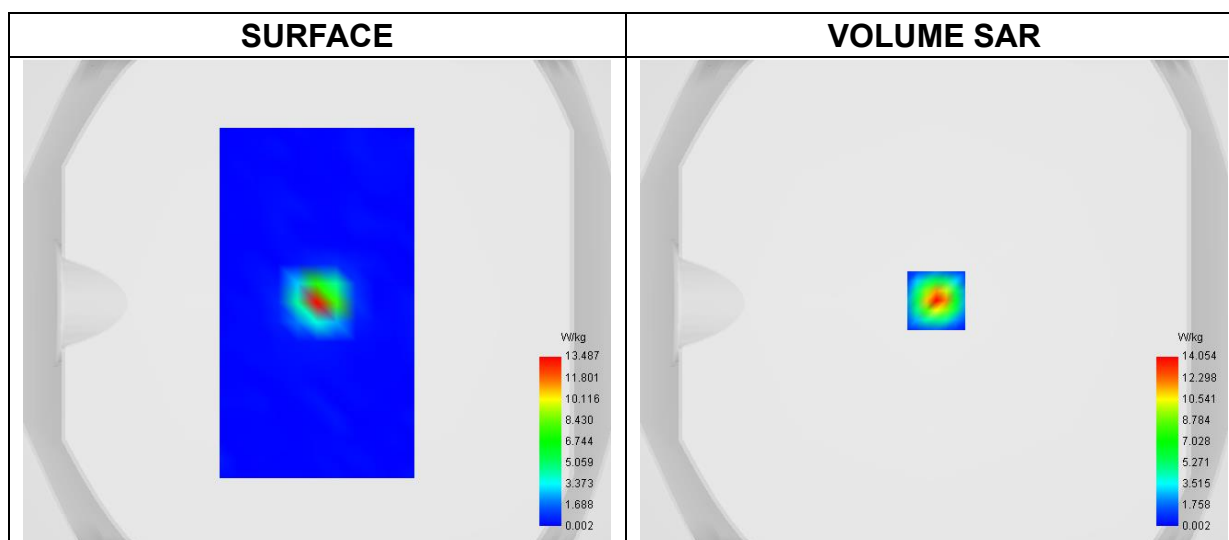
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement:2025-11-14

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW5800
Channels	Middle
Signal	CW
Frequency (MHz)	5800.000
Relative permittivity	35.50
Conductivity (S/m)	5.30
Probe	2225-EPGO-450
ConvF	1.62
Crest factor:	1:1

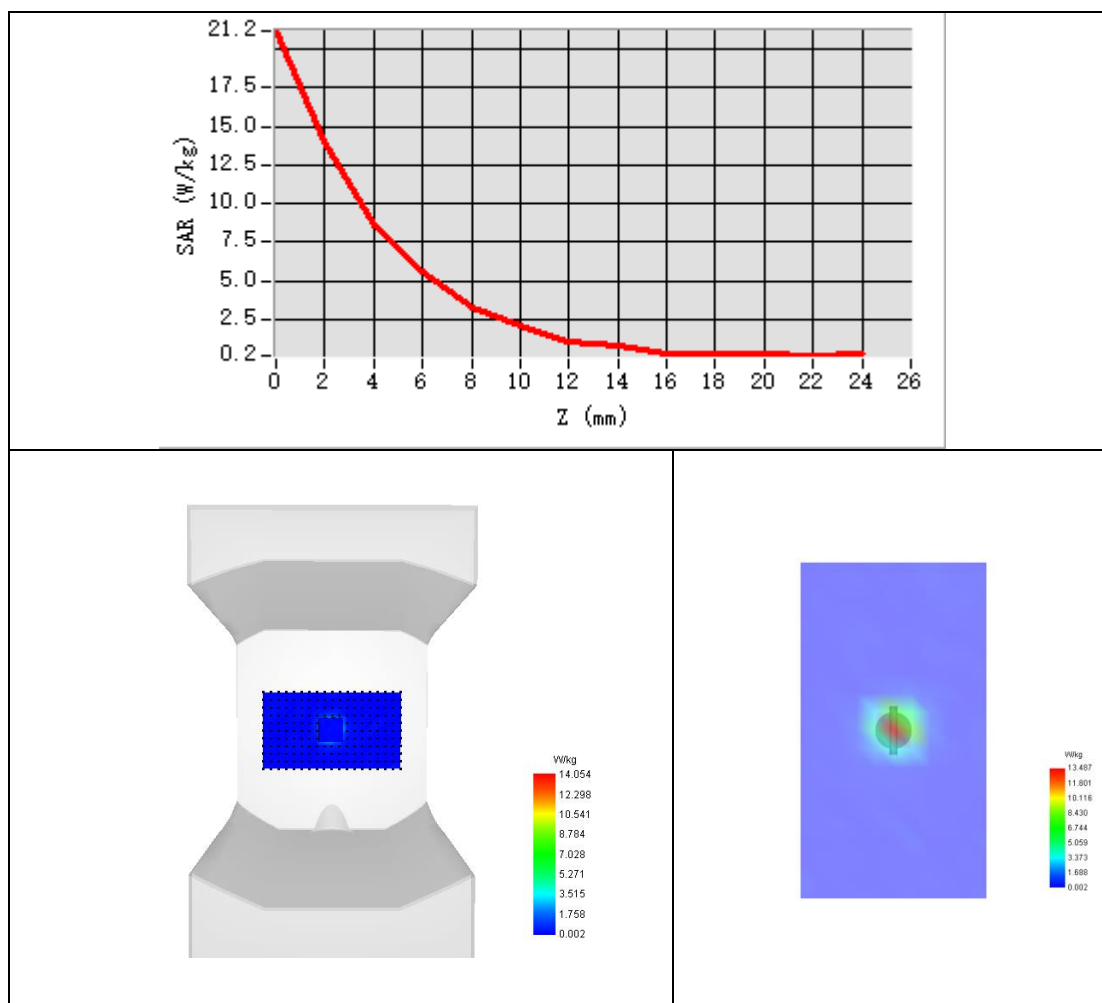


Maximum location: X=1.00, Y=1.00 ; SAR Peak: 22.18 W/kg

SAR 10g (W/Kg)	2.307
SAR 1g (W/Kg)	8.086



Z Axis Scan



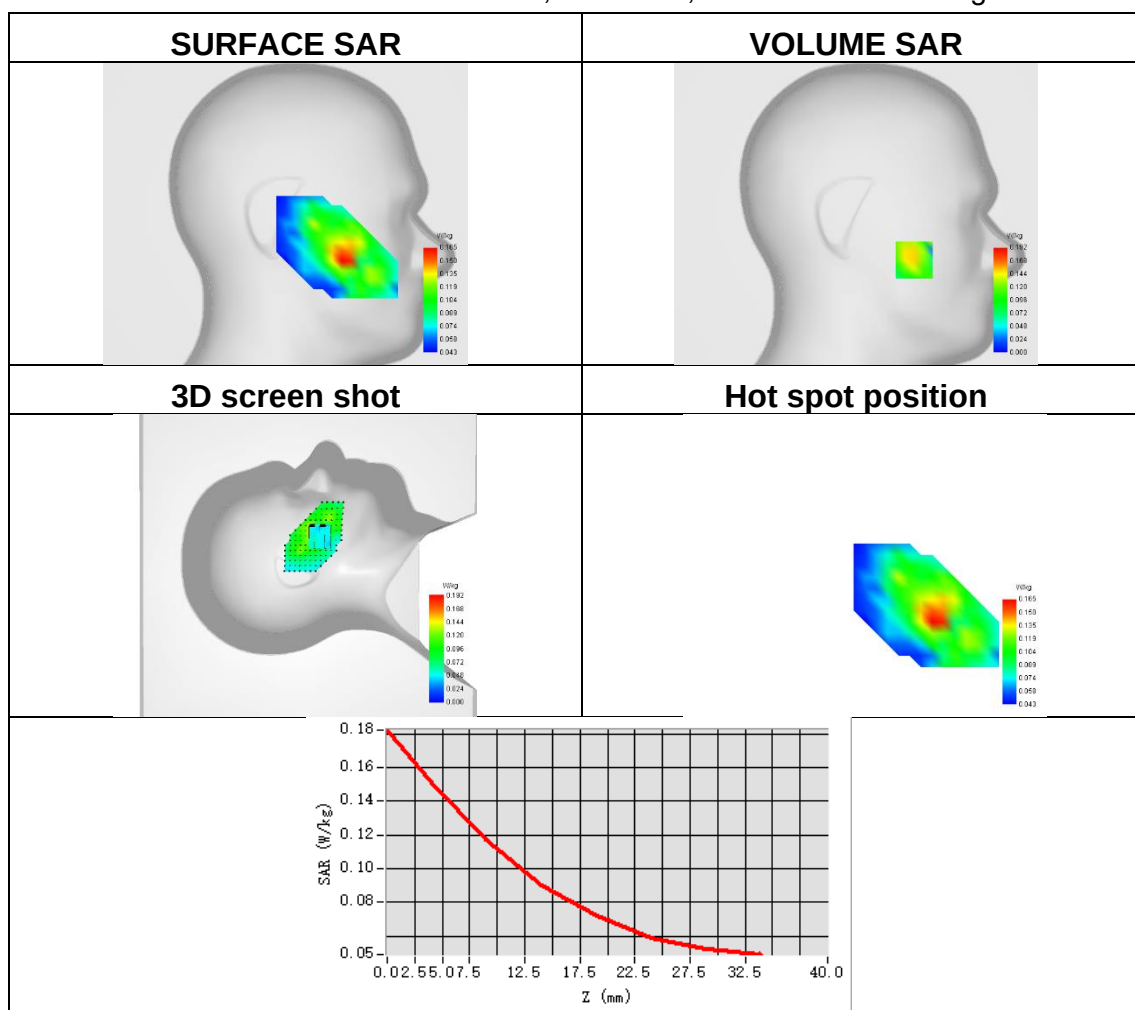


Appendix B. SAR Test Plots

Plot 1:

Test Date	2025-10-29
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	GPRS850
Signal	TDMA (GPRS)
Frequency	848.8
SAR 10g (W/Kg)	0.091
SAR 1g (W/Kg)	0.148
ConvF	1.72
Relative permittivity	42.67
Conductivity (S/m)	0.87

Maximum location: X=-50.00, Y=-39.00 ; SAR Peak: 0.27 W/kg

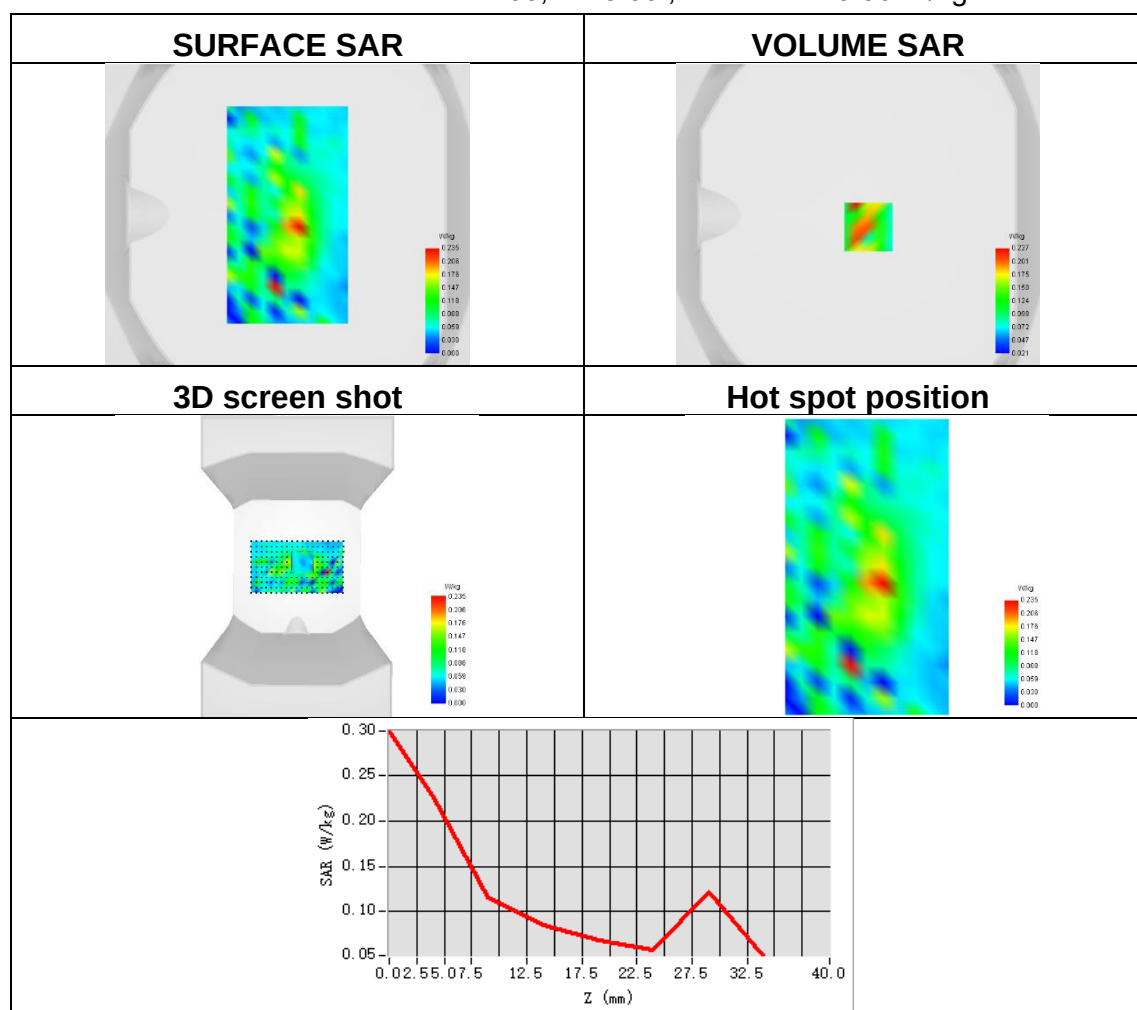




Plot 2:

Test Date	2025-10-29
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	GPRS850
Signal	TDMA (GPRS)
Frequency	848.8
SAR 10g (W/Kg)	0.104
SAR 1g (W/Kg)	0.225
ConvF	1.72
Relative permittivity	42.67
Conductivity (S/m)	0.87

Maximum location: X=7.00, Y=-8.00 ; SAR Peak: 0.56 W/kg

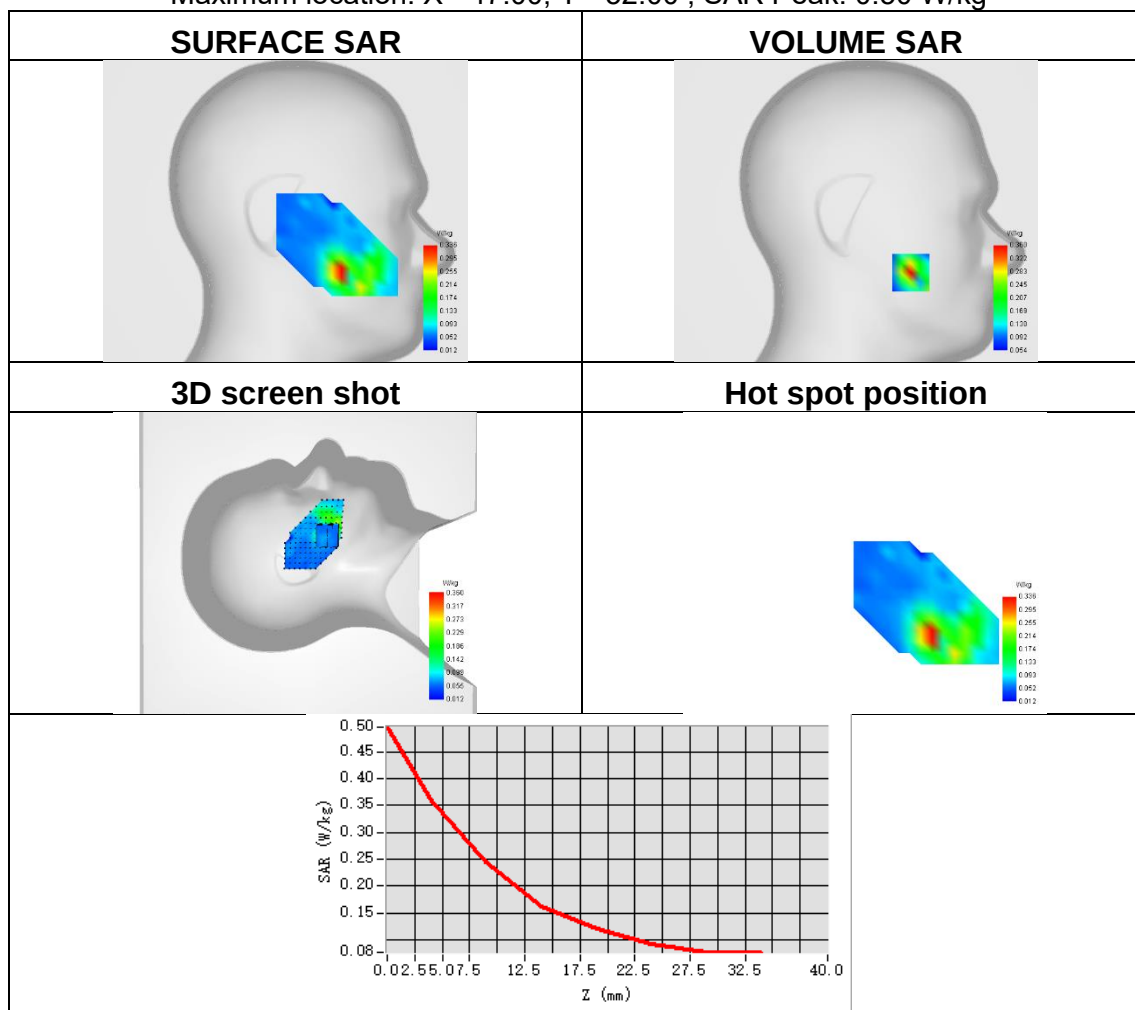




Plot 3:

Test Date	2025-10-12
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	GPRS1900
Signal	TDMA (GPRS)
Frequency	1850.2
SAR 10g (W/Kg)	0.177
SAR 1g (W/Kg)	0.322
ConvF	2.25
Relative permittivity	40.25
Conductivity (S/m)	1.34

Maximum location: X=-47.00, Y=-52.00 ; SAR Peak: 0.50 W/kg

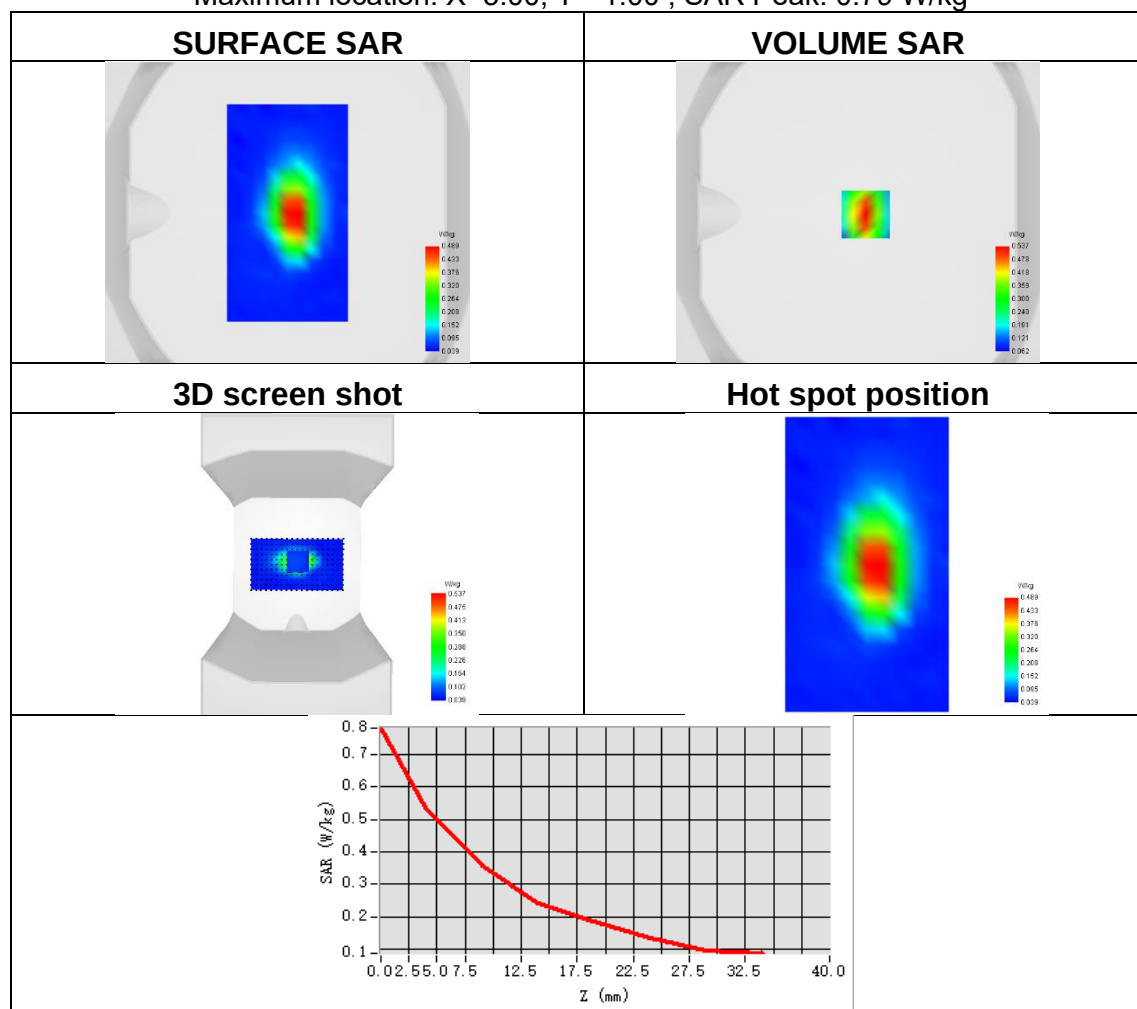




Plot 4:

Test Date	2025-10-12
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	GPRS1900
Signal	TDMA (GPRS)
Frequency	1850.2
SAR 10g (W/Kg)	0.300
SAR 1g (W/Kg)	0.512
ConvF	2.25
Relative permittivity	40.25
Conductivity (S/m)	1.34

Maximum location: X=5.00, Y=-1.00 ; SAR Peak: 0.79 W/kg

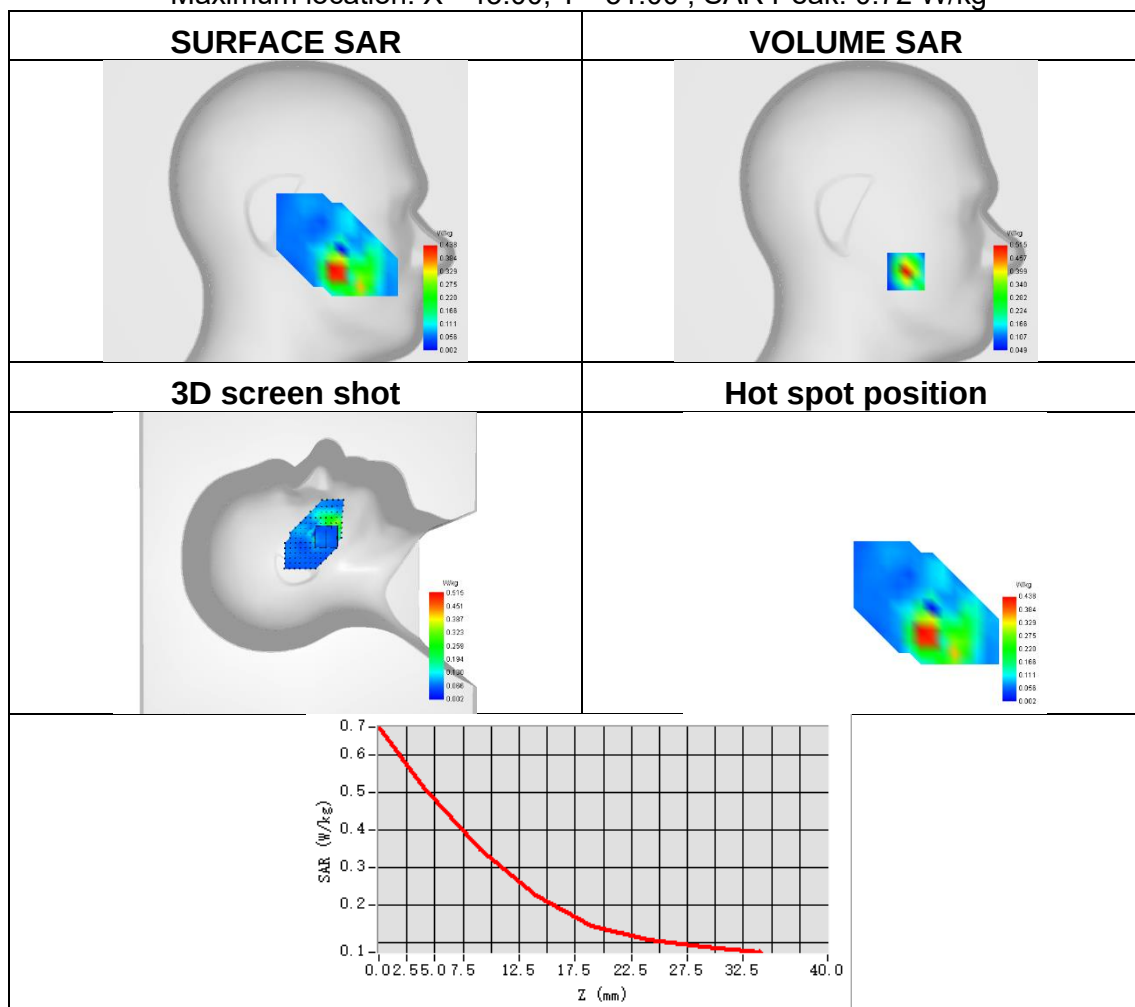




Plot 5:

Test Date	2025-10-12
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	Band 2 (1900)
Signal	HSDPA
Frequency	1852.4
SAR 10g (W/Kg)	0.239
SAR 1g (W/Kg)	0.455
ConvF	2.25
Relative permittivity	40.25
Conductivity (S/m)	1.34

Maximum location: X=-43.00, Y=-51.00 ; SAR Peak: 0.72 W/kg

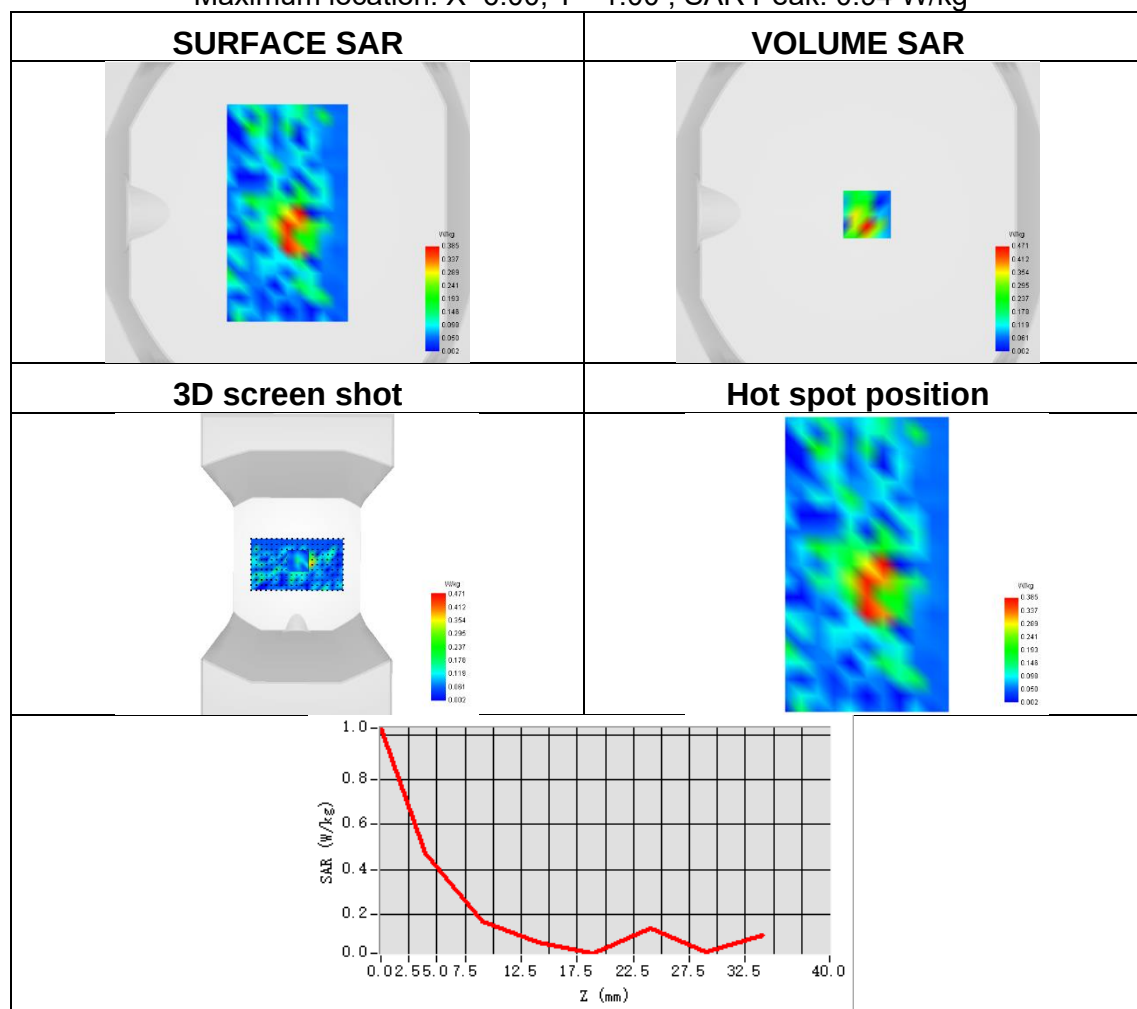




Plot 6:

Test Date	2025-10-12
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	Band 2 (1900)
Signal	HSDPA
Frequency	1852.4
SAR 10g (W/Kg)	0.181
SAR 1g (W/Kg)	0.433
ConvF	2.25
Relative permittivity	40.25
Conductivity (S/m)	1.34

Maximum location: X=6.00, Y=-1.00 ; SAR Peak: 0.94 W/kg

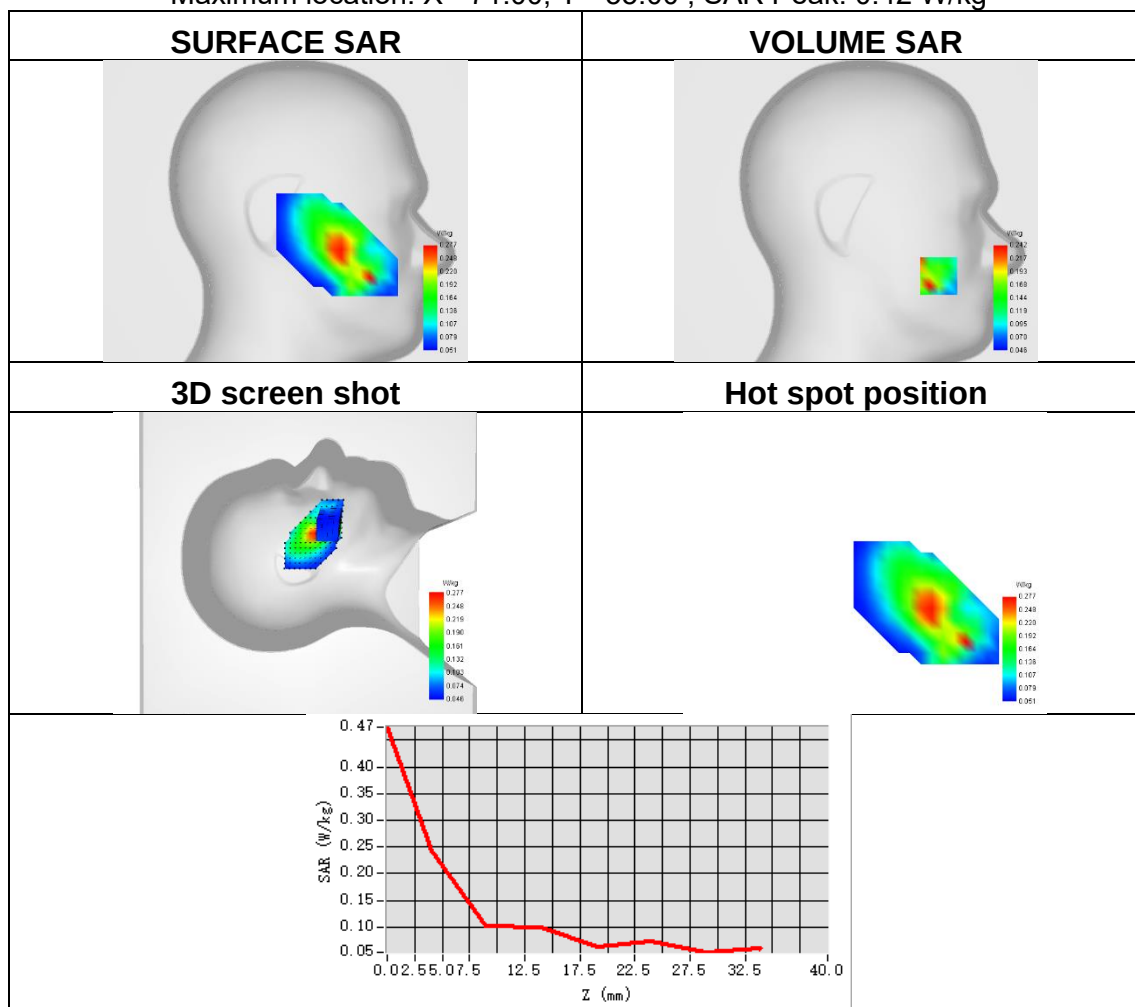




Plot 7:

Test Date	2025-10-29
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	Band 5 (850)
Signal	WCDMA
Frequency	826.4
SAR 10g (W/Kg)	0.101
SAR 1g (W/Kg)	0.226
ConvF	1.72
Relative permittivity	42.67
Conductivity (S/m)	0.87

Maximum location: X=-71.00, Y=-55.00 ; SAR Peak: 0.42 W/kg

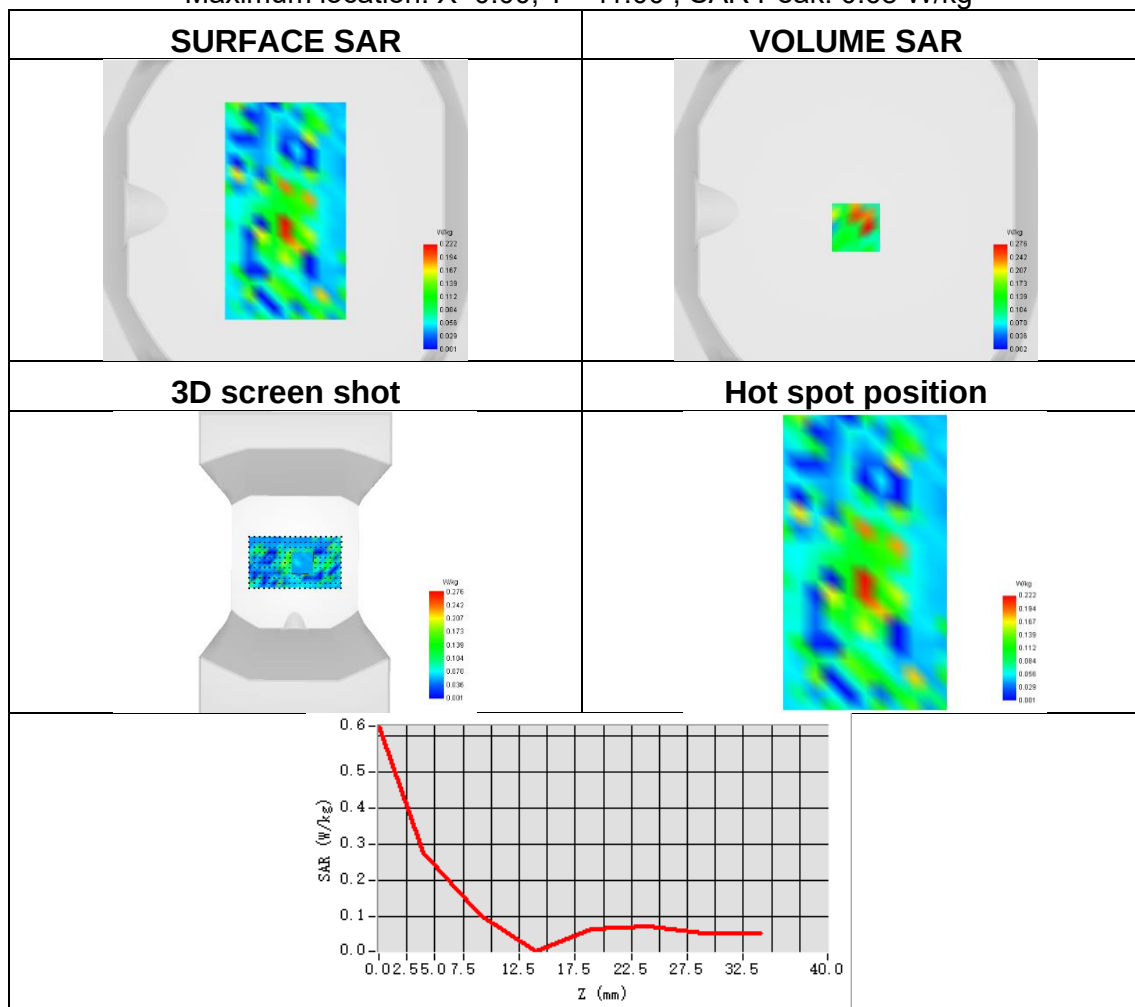




Plot 8:

Test Date	2025-10-29
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	Band 5 (850)
Signal	WCDMA
Frequency	826.4
SAR 10g (W/Kg)	0.115
SAR 1g (W/Kg)	0.277
ConvF	1.72
Relative permittivity	42.67
Conductivity (S/m)	0.87

Maximum location: X=0.00, Y=-11.00 ; SAR Peak: 0.68 W/kg

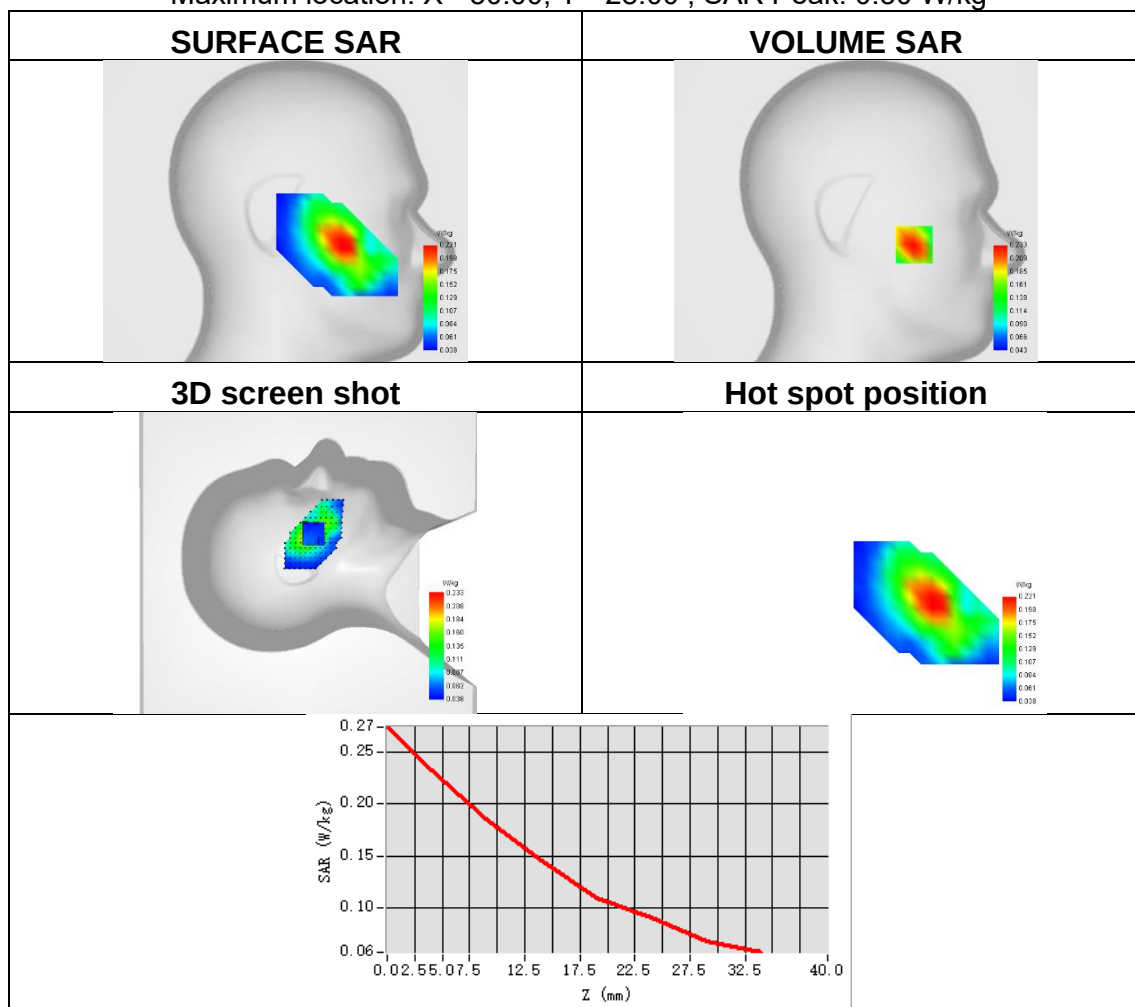




Plot 9:

Test Date	2025-11-08
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Tilt
Band	ISM
Signal	IEEE 802.11b
Frequency	2437
SAR 10g (W/Kg)	0.160
SAR 1g (W/Kg)	0.225
ConvF	1.51
Relative permittivity	39.54
Conductivity (S/m)	1.88

Maximum location: X=-50.00, Y=-28.00 ; SAR Peak: 0.30 W/kg

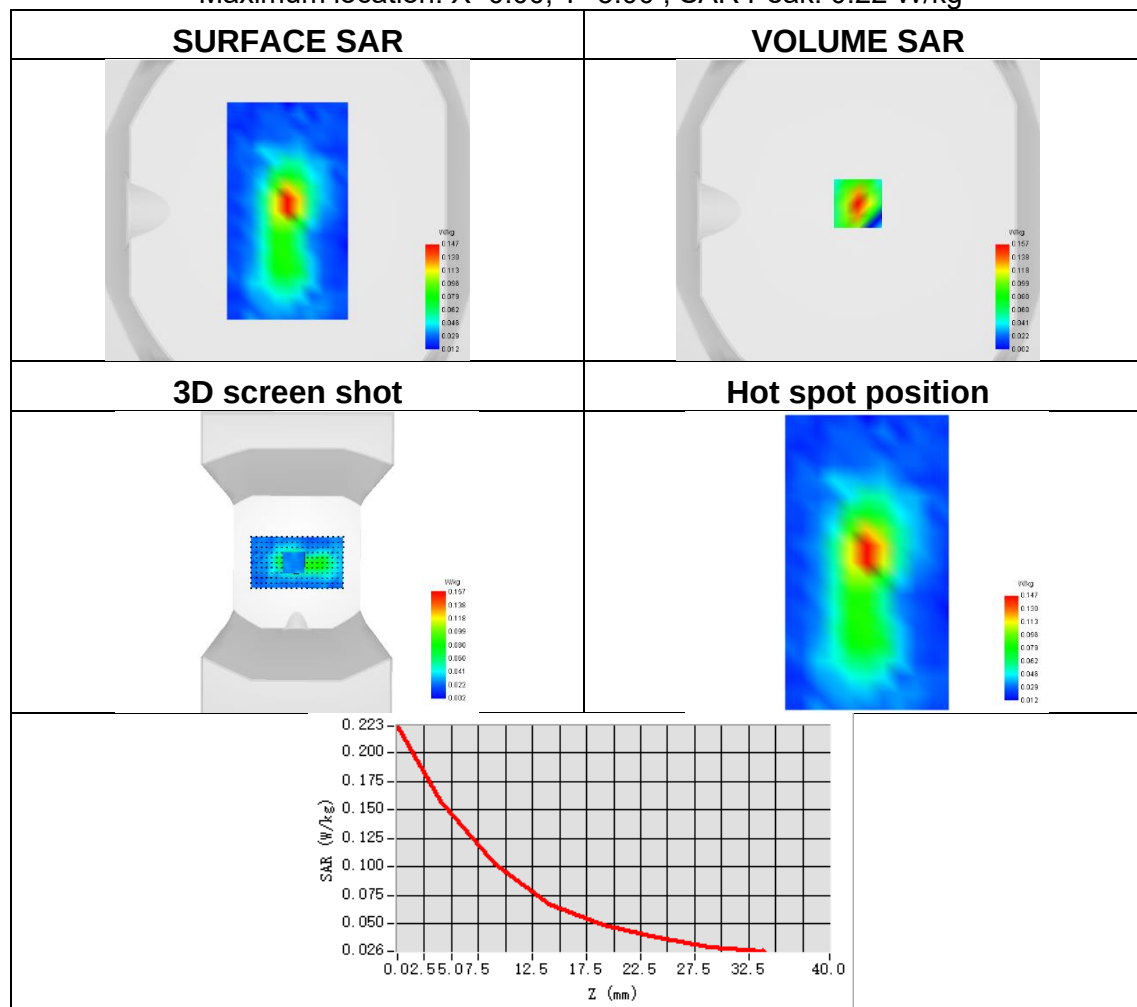




Plot 10:

Test Date	2025-11-08
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Top Side
Band	ISM
Signal	IEEE 802.11b
Frequency	2437
SAR 10g (W/Kg)	0.075
SAR 1g (W/Kg)	0.142
ConvF	1.51
Relative permittivity	39.54
Conductivity (S/m)	1.88

Maximum location: X=0.00, Y=5.00 ; SAR Peak: 0.22 W/kg

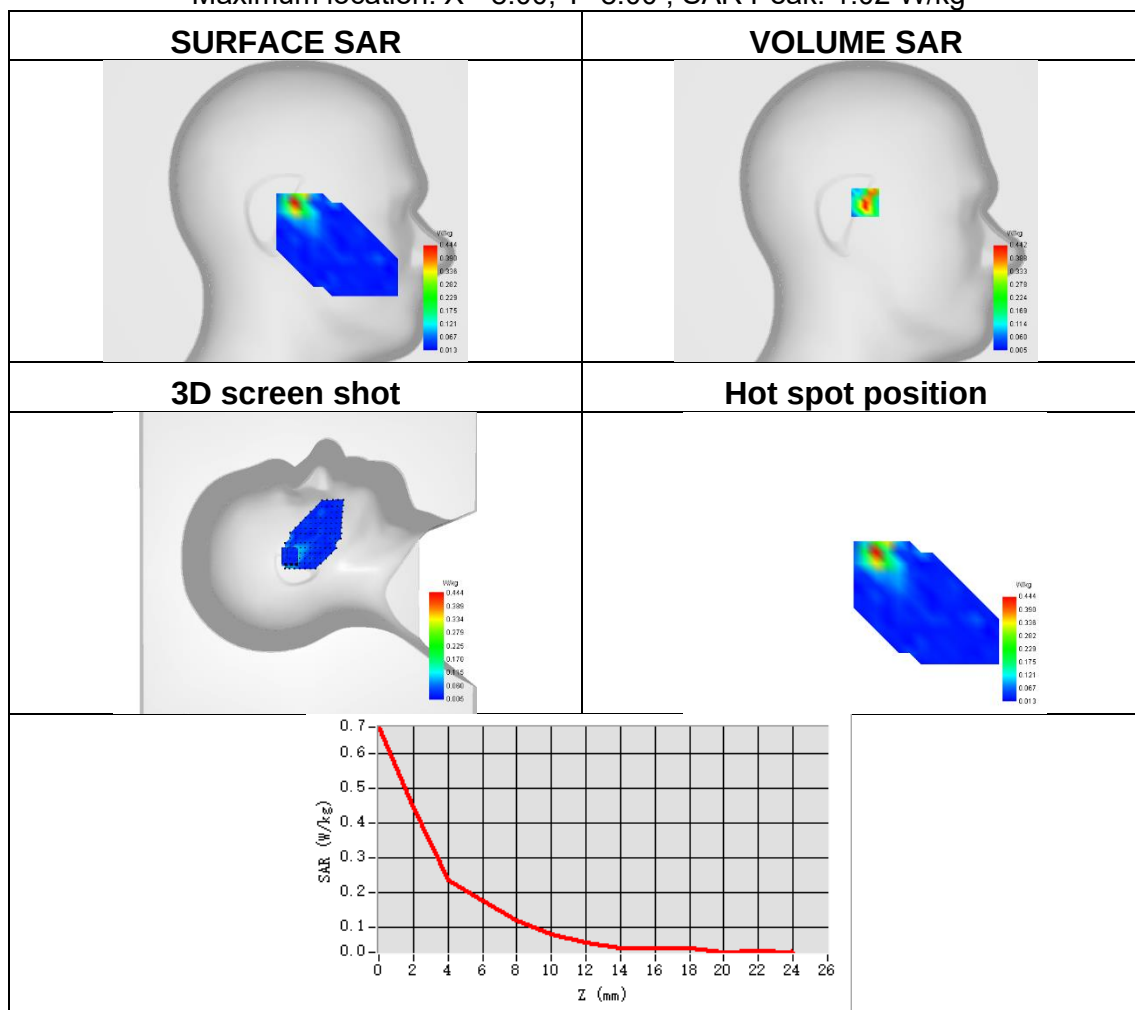




Plot 11:

Test Date	2025-11-13
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Left head
Device Position	Tilt
Band	U-NII-1
Signal	IEEE 802.11a
Frequency	5180
SAR 10g (W/Kg)	0.123
SAR 1g (W/Kg)	0.380
ConvF	1.58
Relative permittivity	36.24
Conductivity (S/m)	4.67

Maximum location: X=-8.00, Y=8.00 ; SAR Peak: 1.02 W/kg

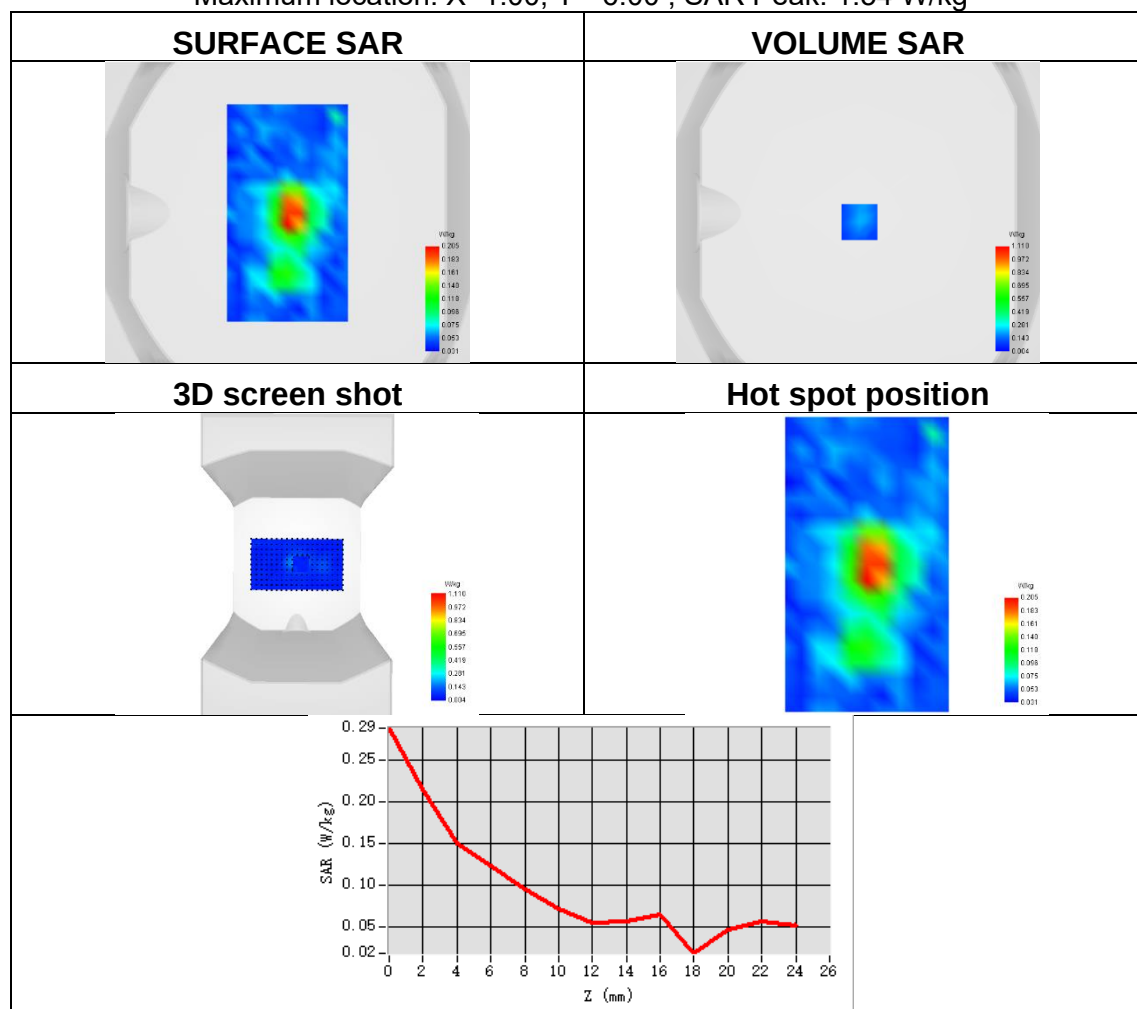




Plot 12:

Test Date	2025-11-13
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Top Side
Band	U-NII-1
Signal	IEEE 802.11a
Frequency	5180
SAR 10g (W/Kg)	0.074
SAR 1g (W/Kg)	0.179
ConvF	1.58
Relative permittivity	36.24
Conductivity (S/m)	4.67

Maximum location: X=1.00, Y=-6.00 ; SAR Peak: 1.54 W/kg

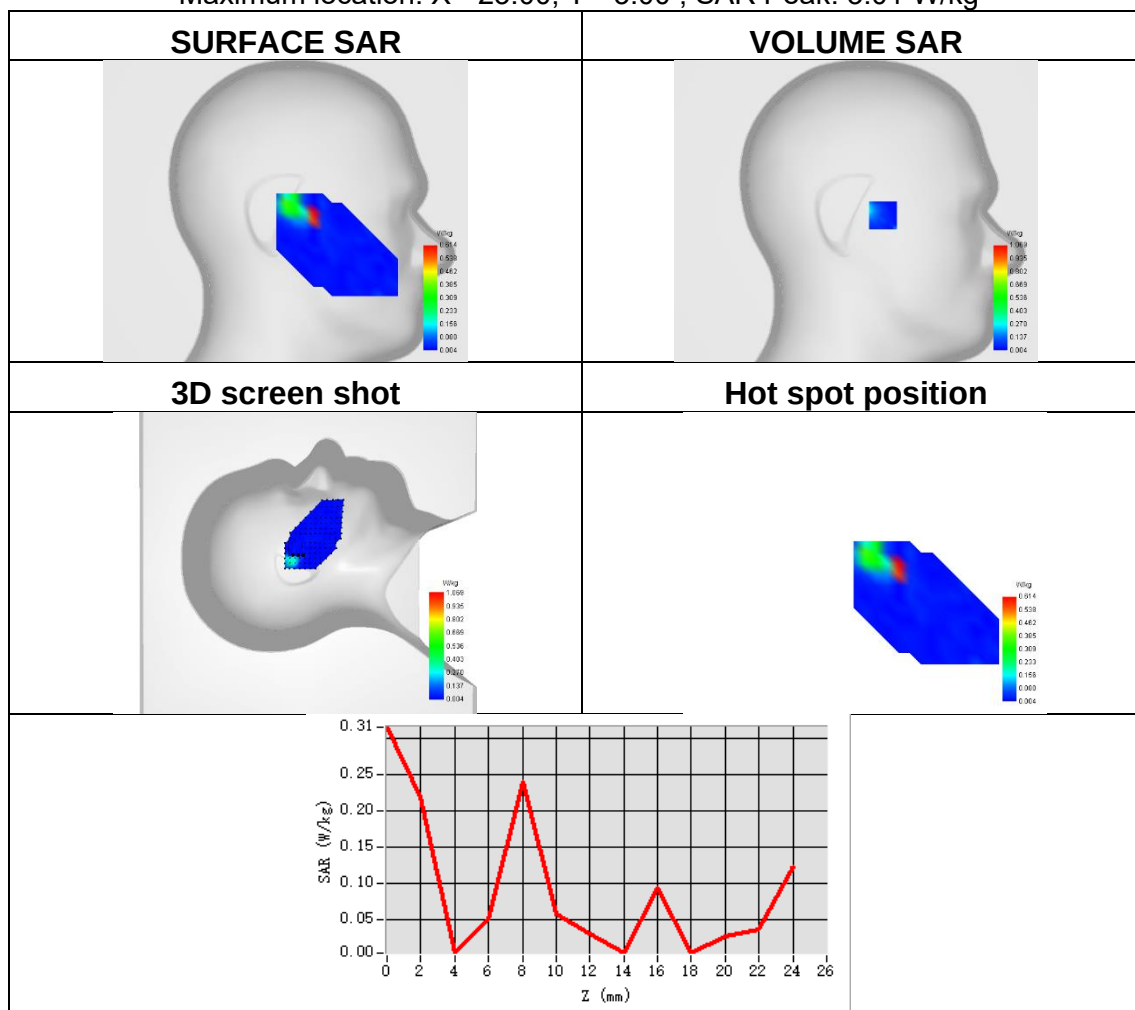




Plot 13:

Test Date	2025-11-13
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Left head
Device Position	Tilt
Band	U-NII-2a
Signal	IEEE 802.11a
Frequency	5260
SAR 10g (W/Kg)	0.046
SAR 1g (W/Kg)	0.151
ConvF	1.60
Relative permittivity	36.55
Conductivity (S/m)	4.83

Maximum location: X=-23.00, Y=-3.00 ; SAR Peak: 3.01 W/kg

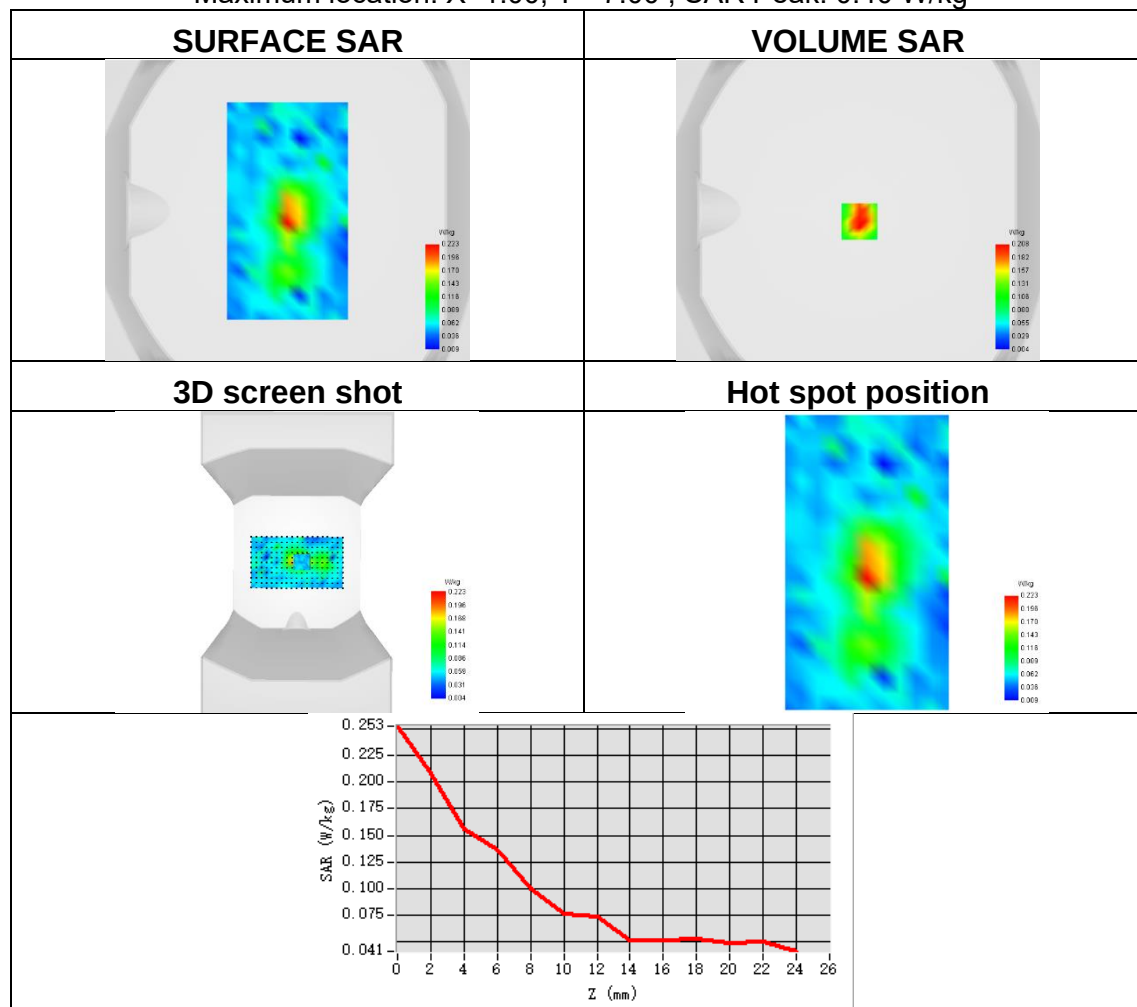




Plot 14:

Test Date	2025-11-13
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Top Side
Band	U-NII-2a
Signal	IEEE 802.11a
Frequency	5260
SAR 10g (W/Kg)	0.072
SAR 1g (W/Kg)	0.151
ConvF	1.60
Relative permittivity	36.55
Conductivity (S/m)	4.83

Maximum location: X=1.00, Y=-7.00 ; SAR Peak: 0.40 W/kg

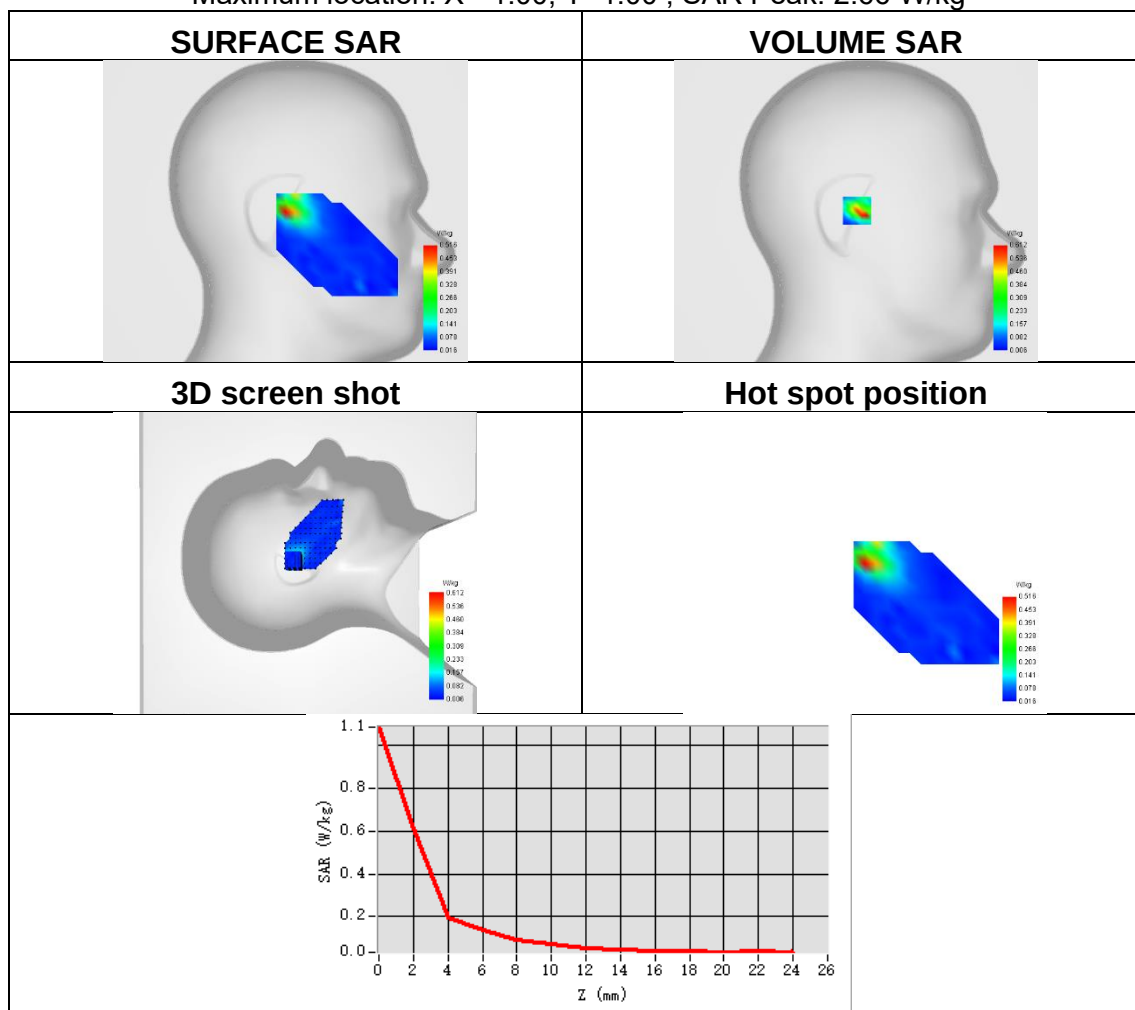




Plot 15:

Test Date	2025-11-14
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Left head
Device Position	Tilt
Band	U-NII-2c
Signal	IEEE 802.11a
Frequency	5700
SAR 10g (W/Kg)	0.140
SAR 1g (W/Kg)	0.435
ConvF	1.63
Relative permittivity	35.79
Conductivity (S/m)	5.09

Maximum location: X=-1.00, Y=1.00 ; SAR Peak: 2.66 W/kg

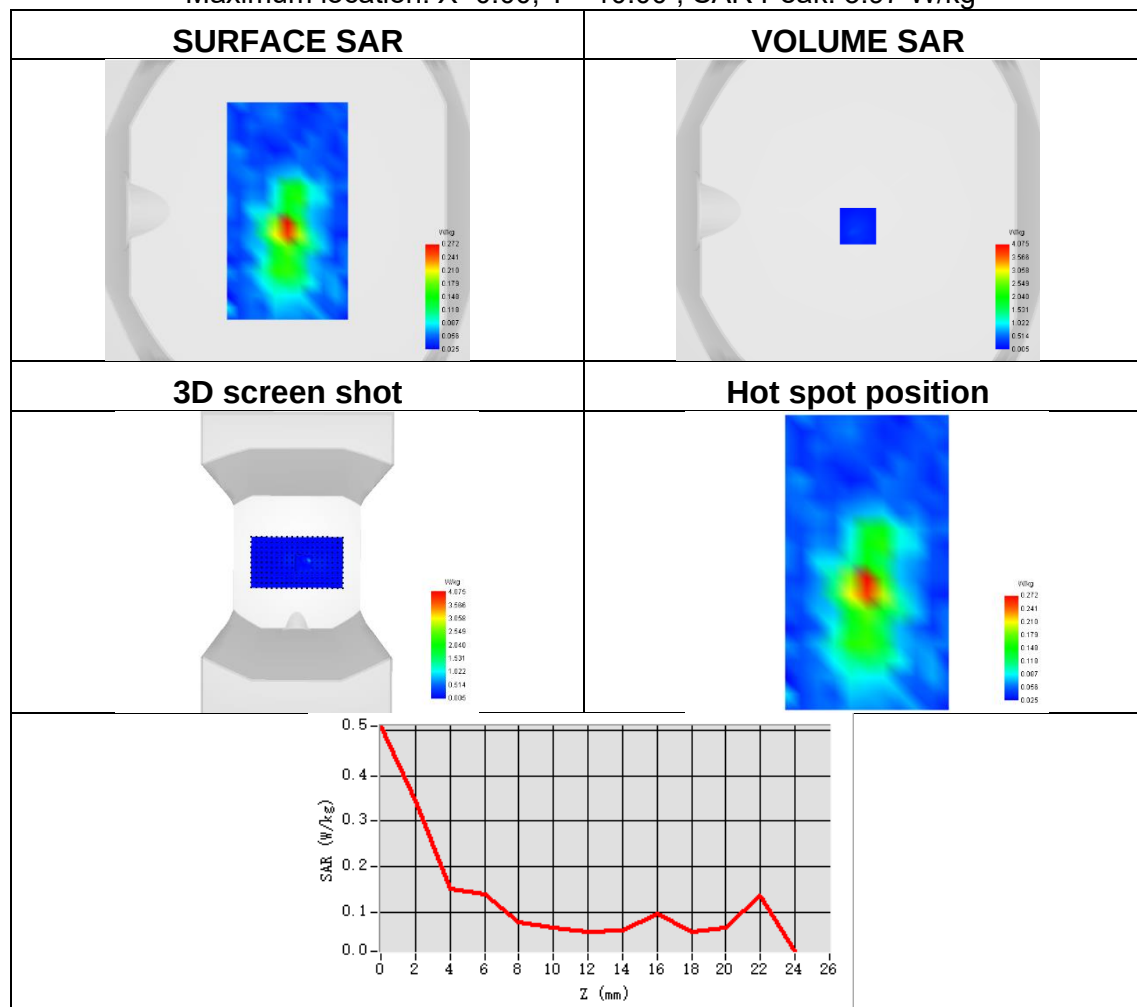




Plot 16:

Test Date	2025-11-14
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Top Side
Band	U-NII-2c
Signal	IEEE 802.11a
Frequency	5700
SAR 10g (W/Kg)	0.132
SAR 1g (W/Kg)	0.306
ConvF	1.63
Relative permittivity	35.79
Conductivity (S/m)	5.09

Maximum location: X=0.00, Y=-10.00 ; SAR Peak: 3.97 W/kg

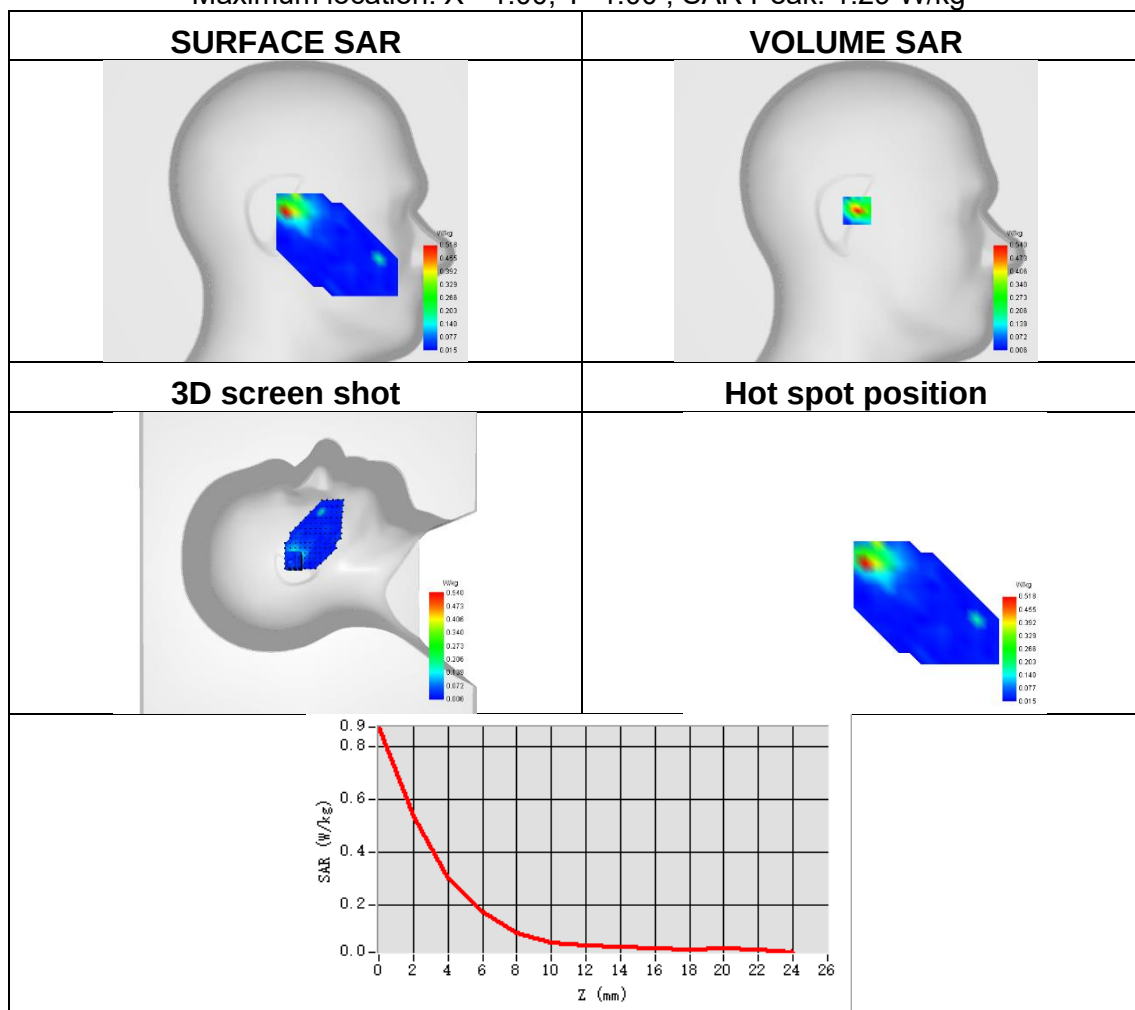




Plot 17:

Test Date	2025-11-14
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Left head
Device Position	Tilt
Band	U-NII-3
Signal	IEEE 802.11a
Frequency	5785
SAR 10g (W/Kg)	0.124
SAR 1g (W/Kg)	0.420
ConvF	1.62
Relative permittivity	35.50
Conductivity (S/m)	5.30

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

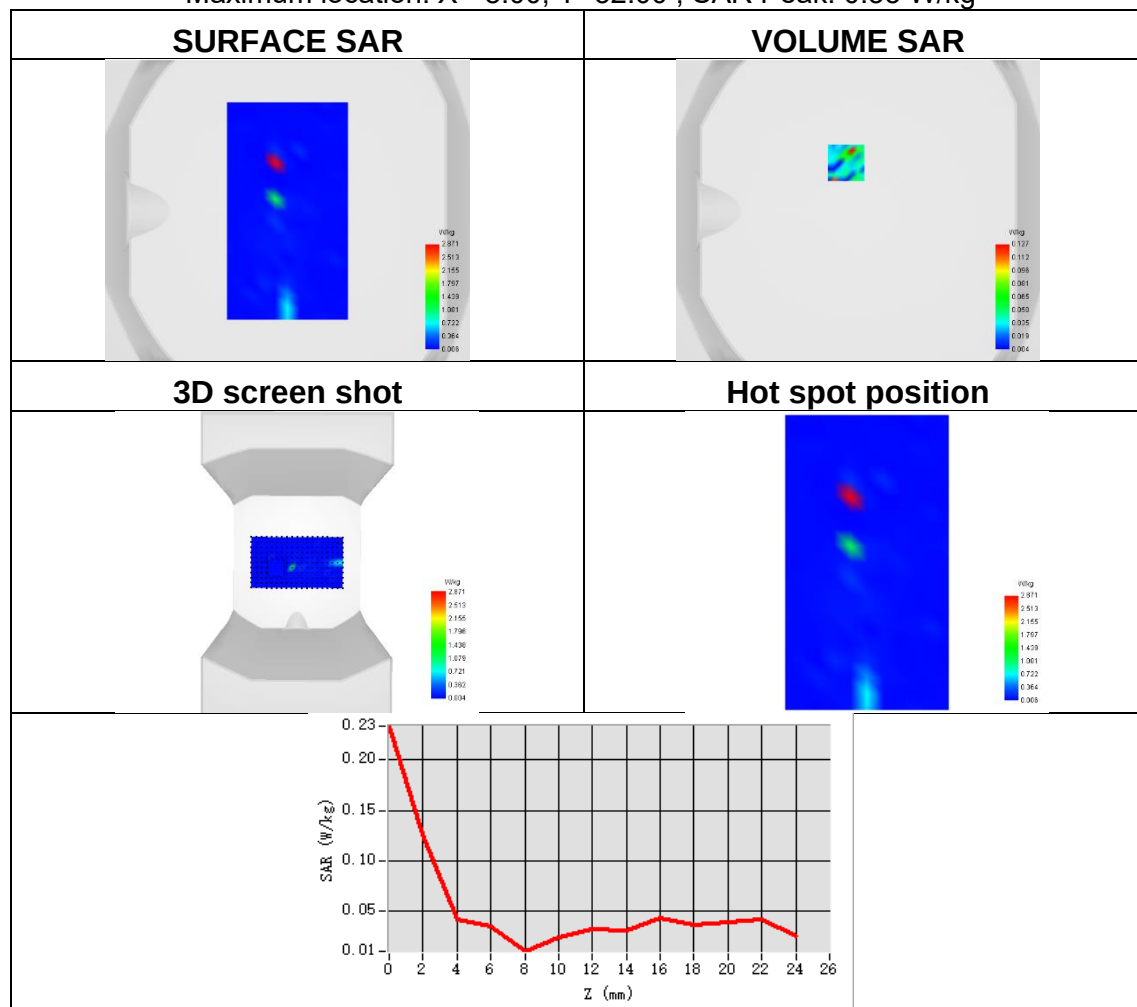




Plot 18:

Test Date	2025-11-14
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Top Side
Band	U-NII-3
Signal	IEEE 802.11a
Frequency	5785
SAR 10g (W/Kg)	0.025
SAR 1g (W/Kg)	0.056
ConvF	1.62
Relative permittivity	35.50
Conductivity (S/m)	5.30

Maximum location: X=-8.00, Y=32.00 ; SAR Peak: 0.33 W/kg

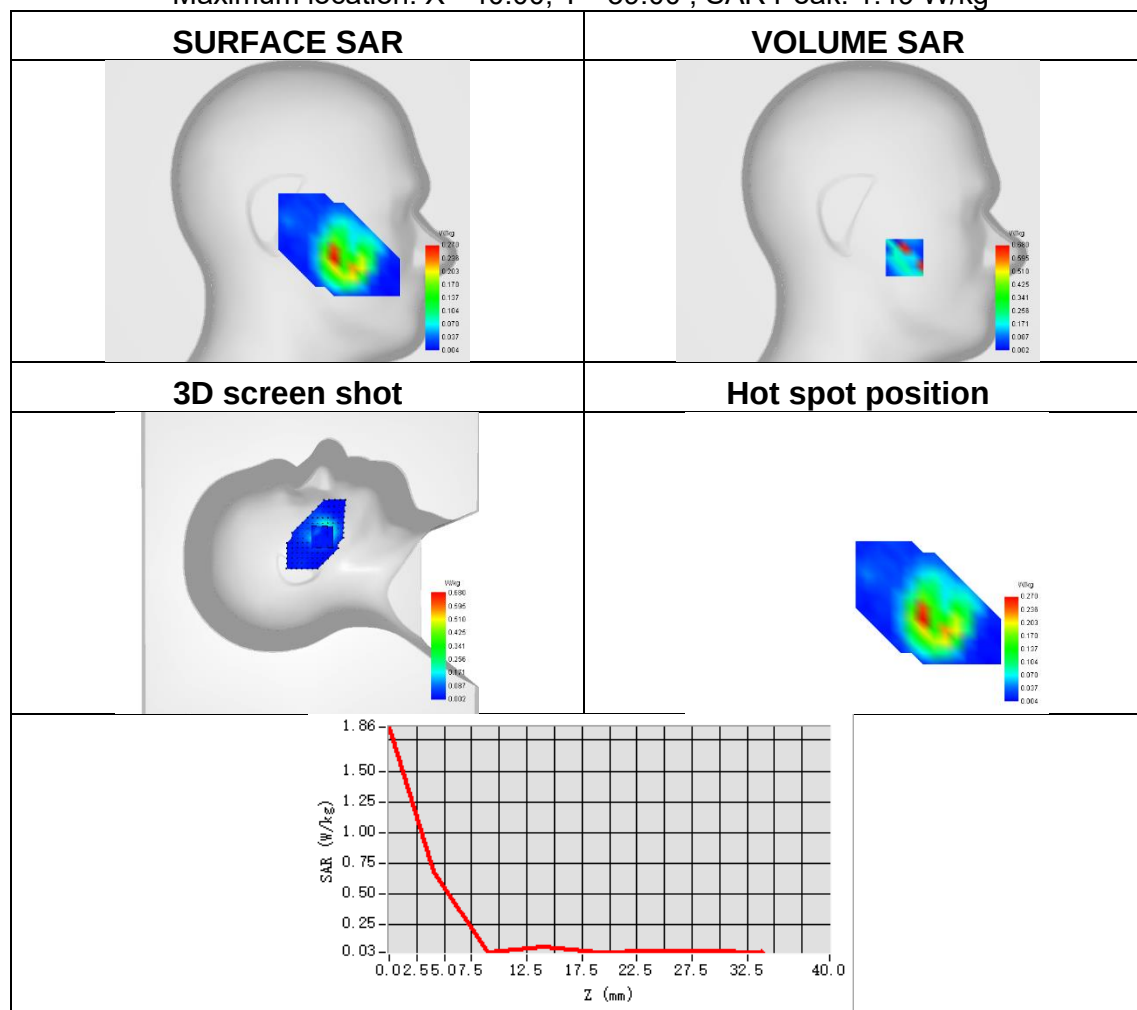




Plot 19:

Test Date	2025-10-12
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 2
Signal	LTE FDD
Frequency	1860
SAR 10g (W/Kg)	0.122
SAR 1g (W/Kg)	0.448
ConvF	2.25
Relative permittivity	40.25
Conductivity (S/m)	1.34

Maximum location: X=-40.00, Y=-39.00 ; SAR Peak: 1.49 W/kg

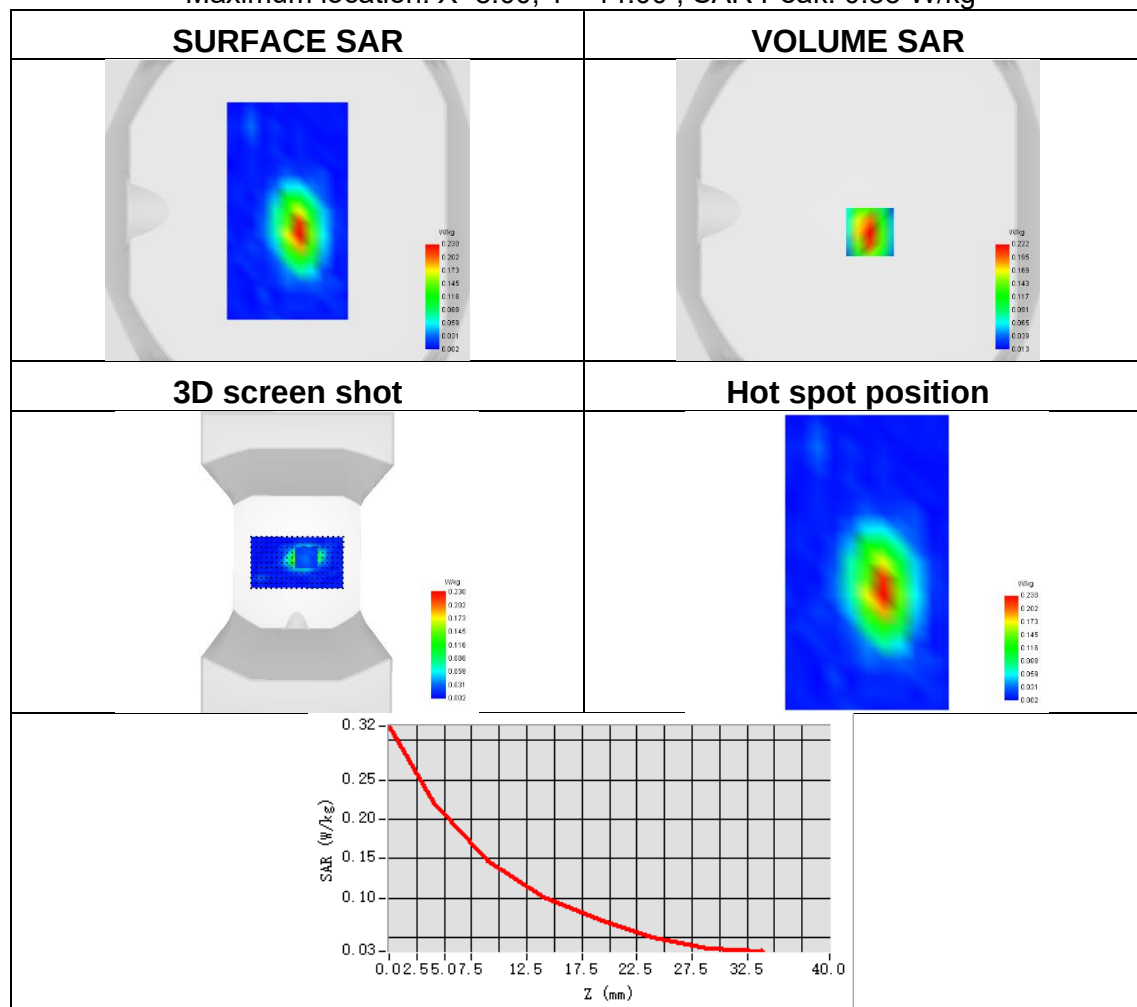




Plot 20:

Test Date	2025-10-12
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	LTE band 2
Signal	LTE FDD
Frequency	1860
SAR 10g (W/Kg)	0.118
SAR 1g (W/Kg)	0.209
ConvF	2.25
Relative permittivity	40.25
Conductivity (S/m)	1.34

Maximum location: X=8.00, Y=-14.00 ; SAR Peak: 0.33 W/kg

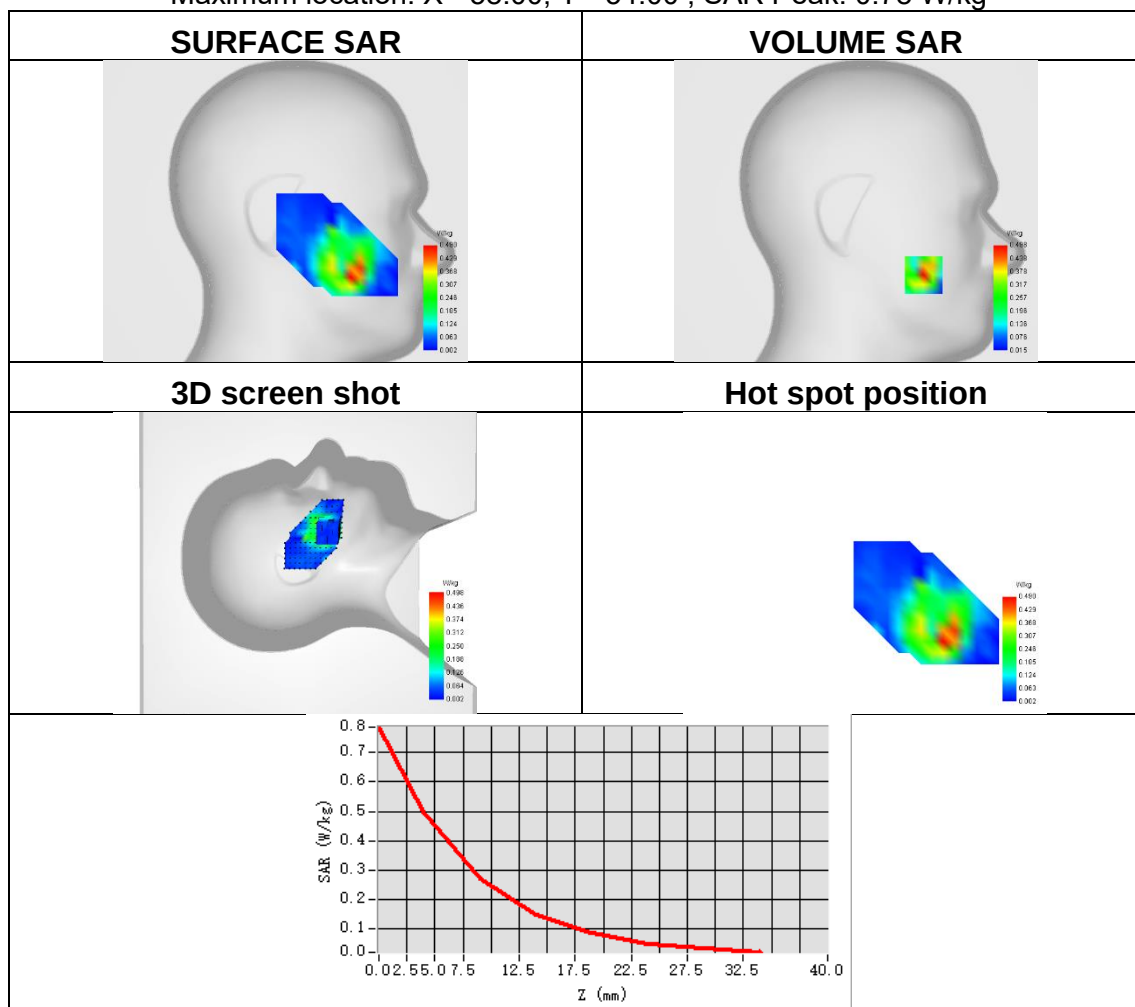




Plot 21:

Test Date	2025-10-11
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 4
Signal	LTE FDD
Frequency	1732.5
SAR 10g (W/Kg)	0.232
SAR 1g (W/Kg)	0.442
ConvF	1.95
Relative permittivity	41.05
Conductivity (S/m)	1.44

Maximum location: X=-58.00, Y=-54.00 ; SAR Peak: 0.78 W/kg

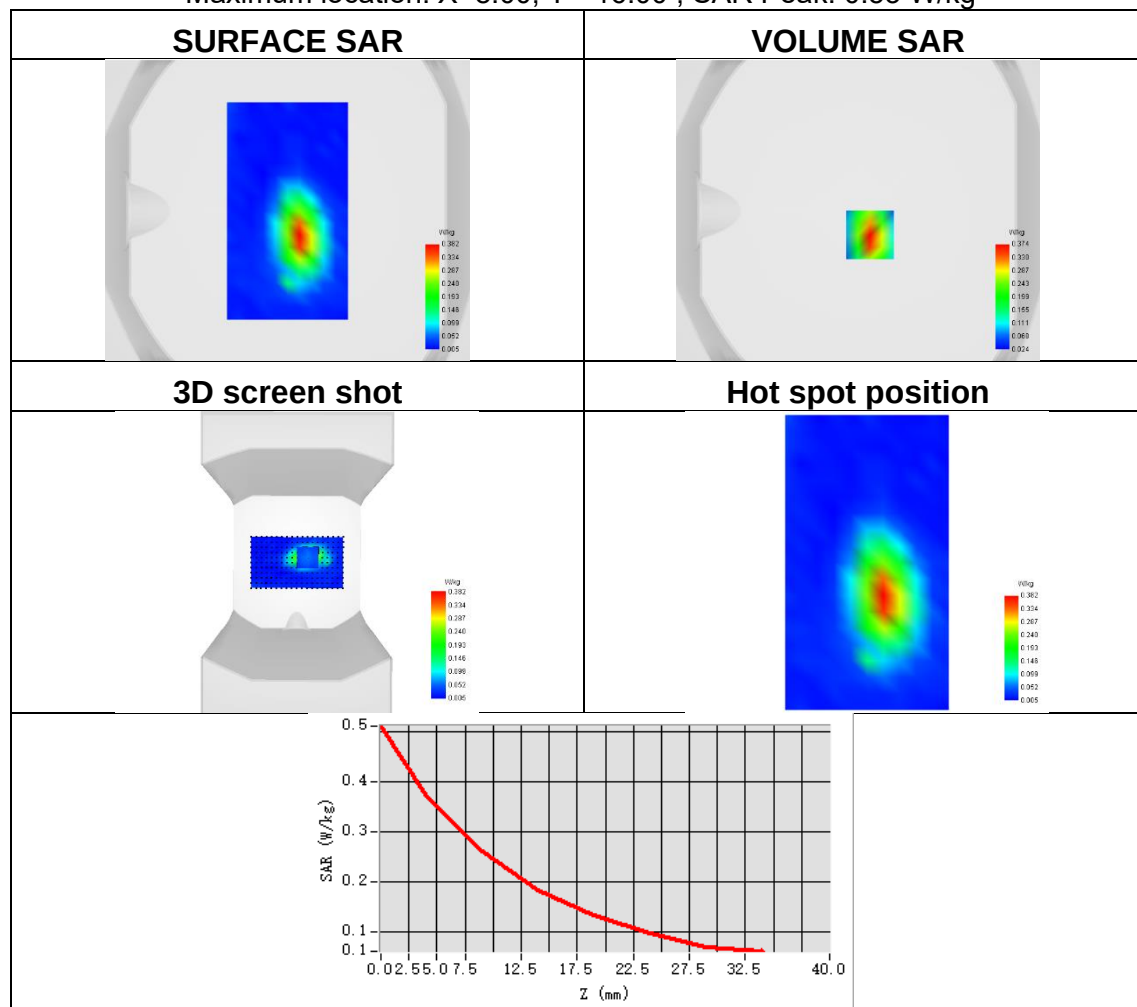




Plot 22:

Test Date	2025-10-11
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	LTE band 4
Signal	LTE FDD
Frequency	1732.5
SAR 10g (W/Kg)	0.202
SAR 1g (W/Kg)	0.349
ConvF	1.95
Relative permittivity	41.05
Conductivity (S/m)	1.44

Maximum location: X=8.00, Y=-16.00 ; SAR Peak: 0.53 W/kg

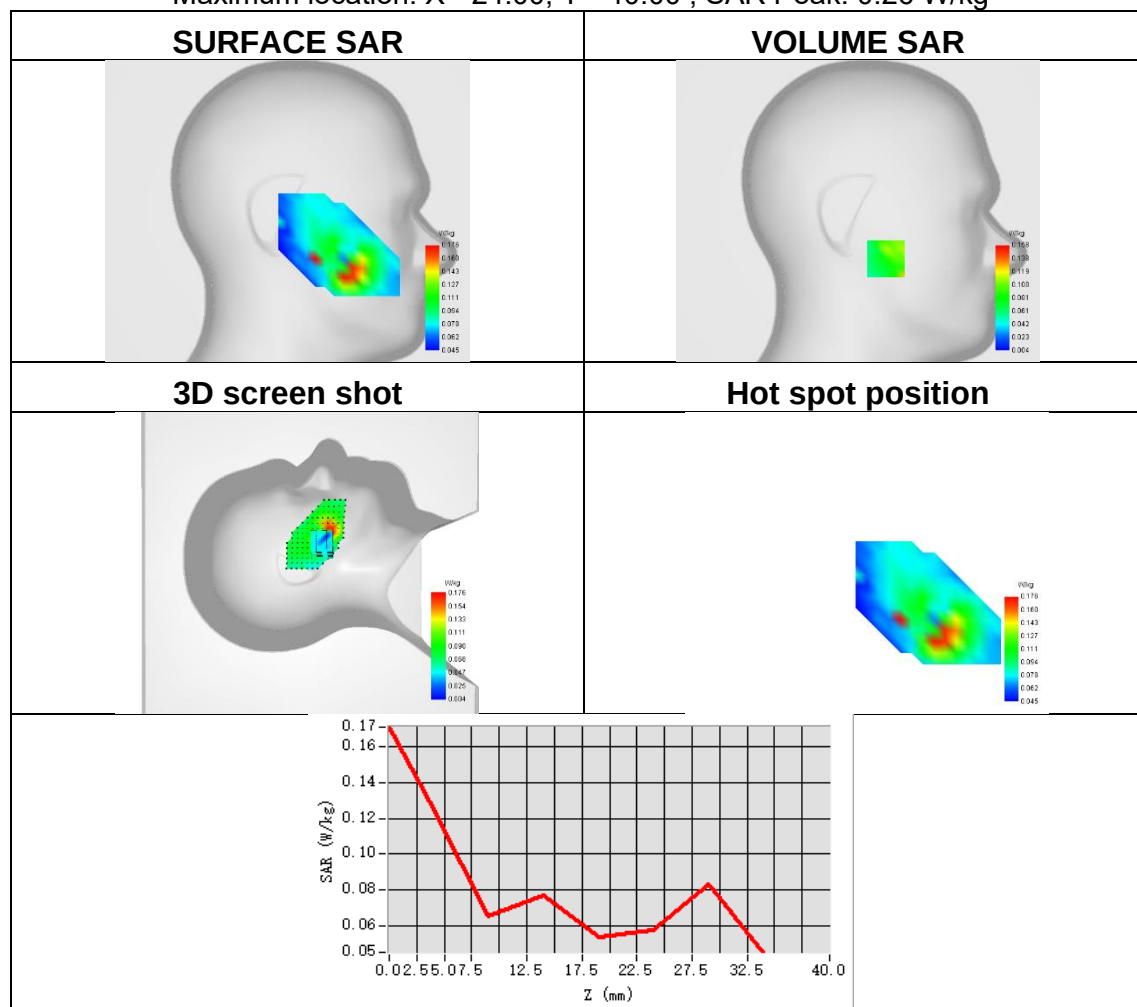




Plot 23:

Test Date	2025-10-29
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 5
Signal	LTE FDD
Frequency	829
SAR 10g (W/Kg)	0.063
SAR 1g (W/Kg)	0.111
ConvF	1.72
Relative permittivity	42.67
Conductivity (S/m)	0.87

Maximum location: X=-24.00, Y=-40.00 ; SAR Peak: 0.26 W/kg

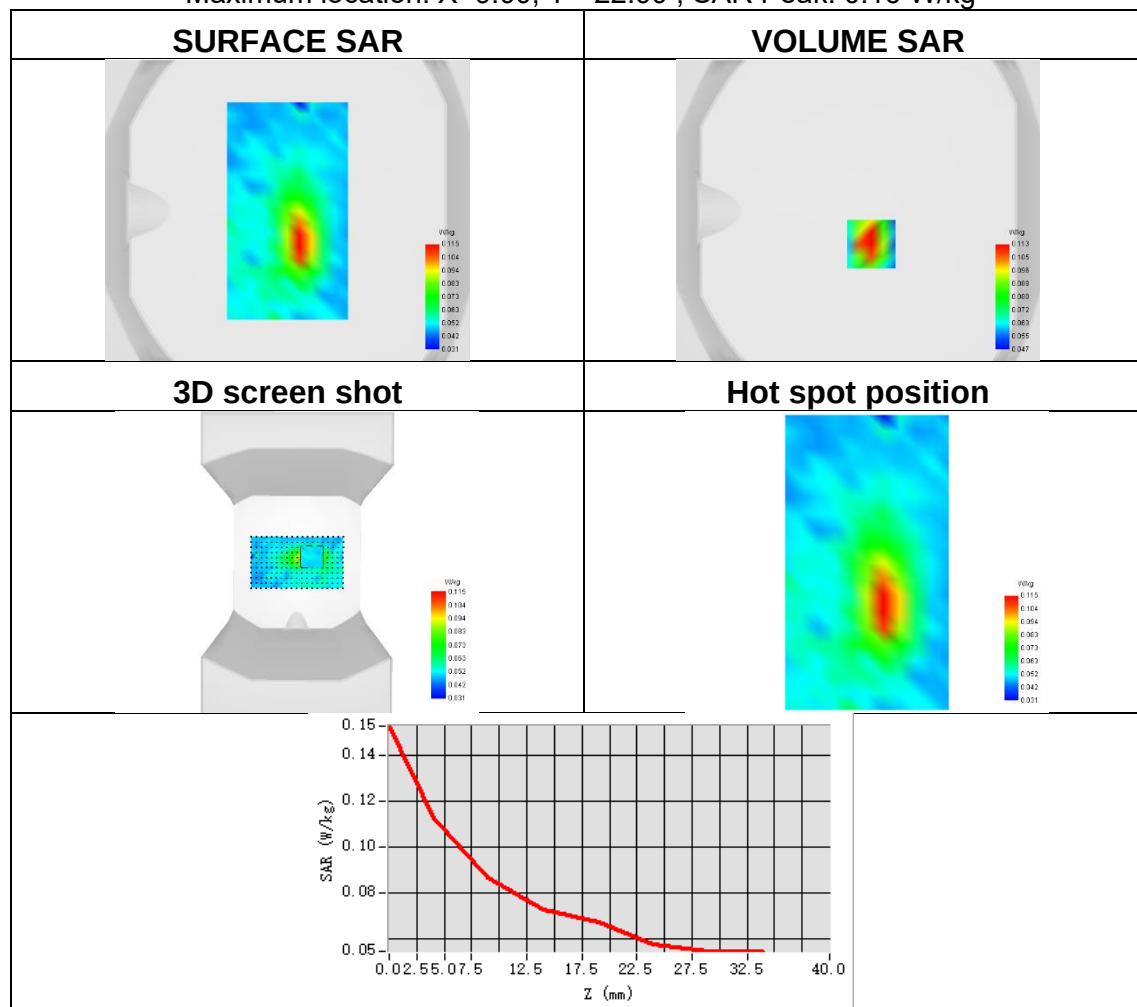




Plot 24:

Test Date	2025-10-29
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	LTE band 5
Signal	LTE FDD
Frequency	829
SAR 10g (W/Kg)	0.081
SAR 1g (W/Kg)	0.111
ConvF	1.72
Relative permittivity	42.67
Conductivity (S/m)	0.87

Maximum location: X=9.00, Y=-22.00 ; SAR Peak: 0.16 W/kg

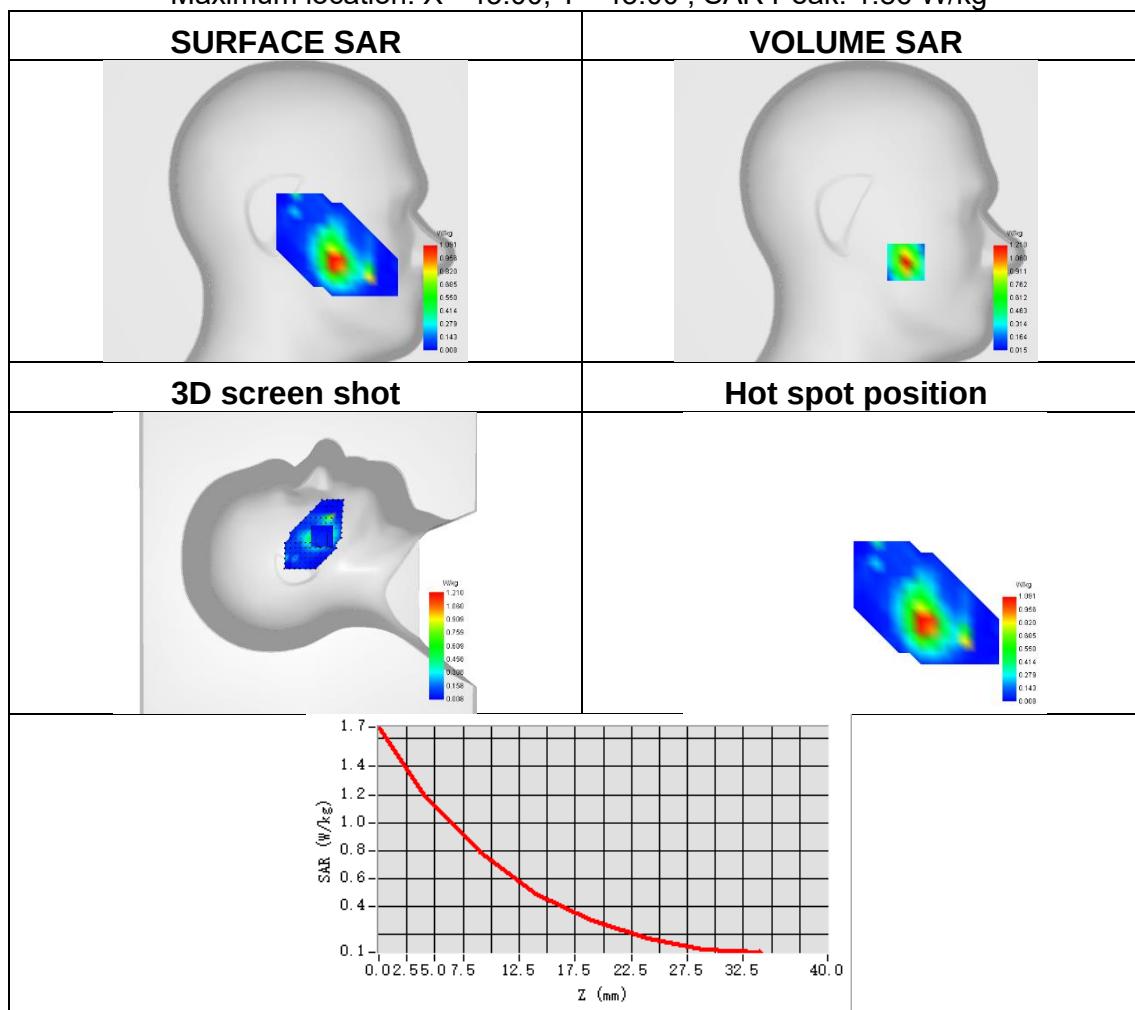




Plot 25:

Test Date	2025-11-13
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	2560
SAR 10g (W/Kg)	0.550
SAR 1g (W/Kg)	1.045
ConvF	1.44
Relative permittivity	39.89
Conductivity (S/m)	1.96

Maximum location: X=-43.00, Y=-43.00 ; SAR Peak: 1.86 W/kg

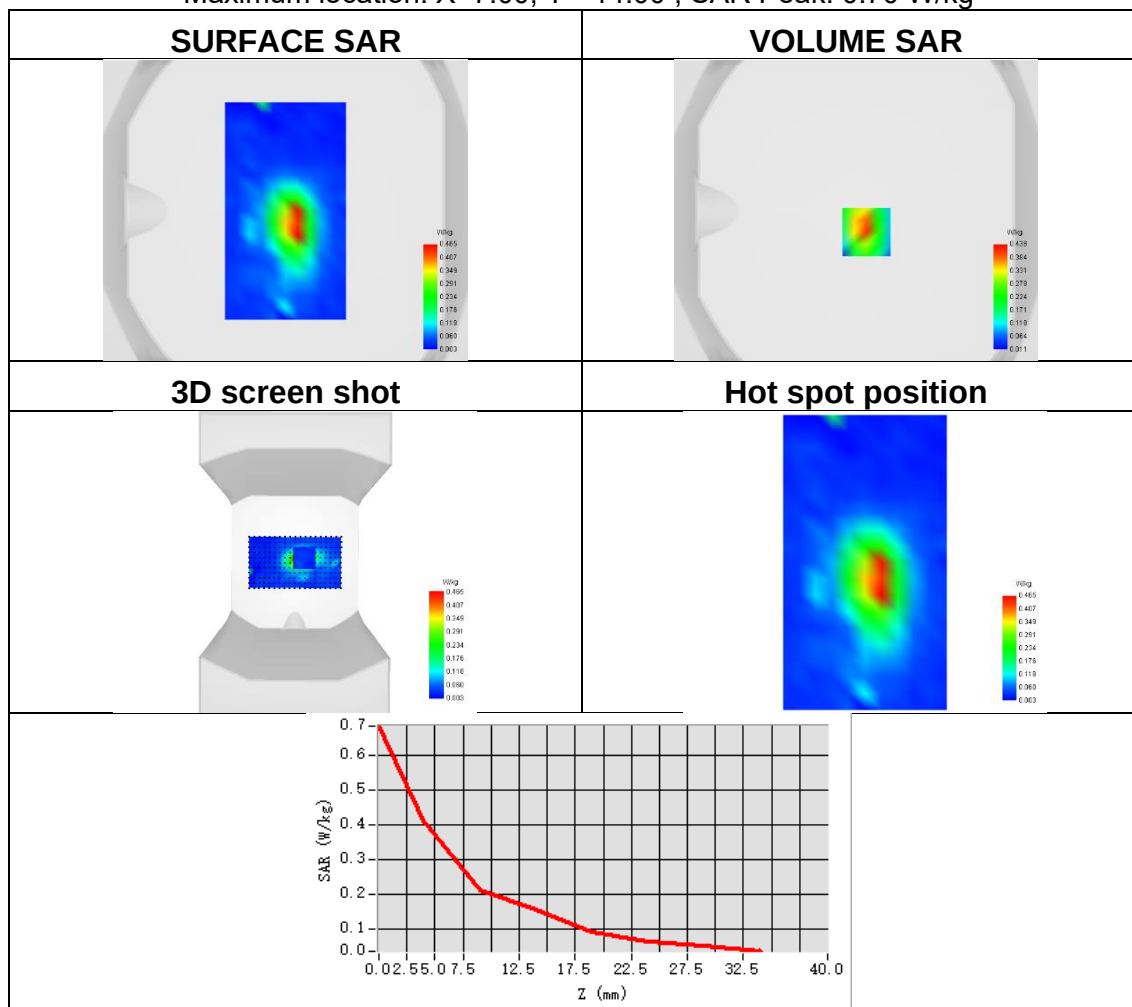




Plot 26:

Test Date	2025-11-13
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	LTE band 7
Signal	LTE FDD
Frequency	2560
SAR 10g (W/Kg)	0.198
SAR 1g (W/Kg)	0.390
ConvF	1.44
Relative permittivity	39.89
Conductivity (S/m)	1.96

Maximum location: X=7.00, Y=-14.00 ; SAR Peak: 0.70 W/kg

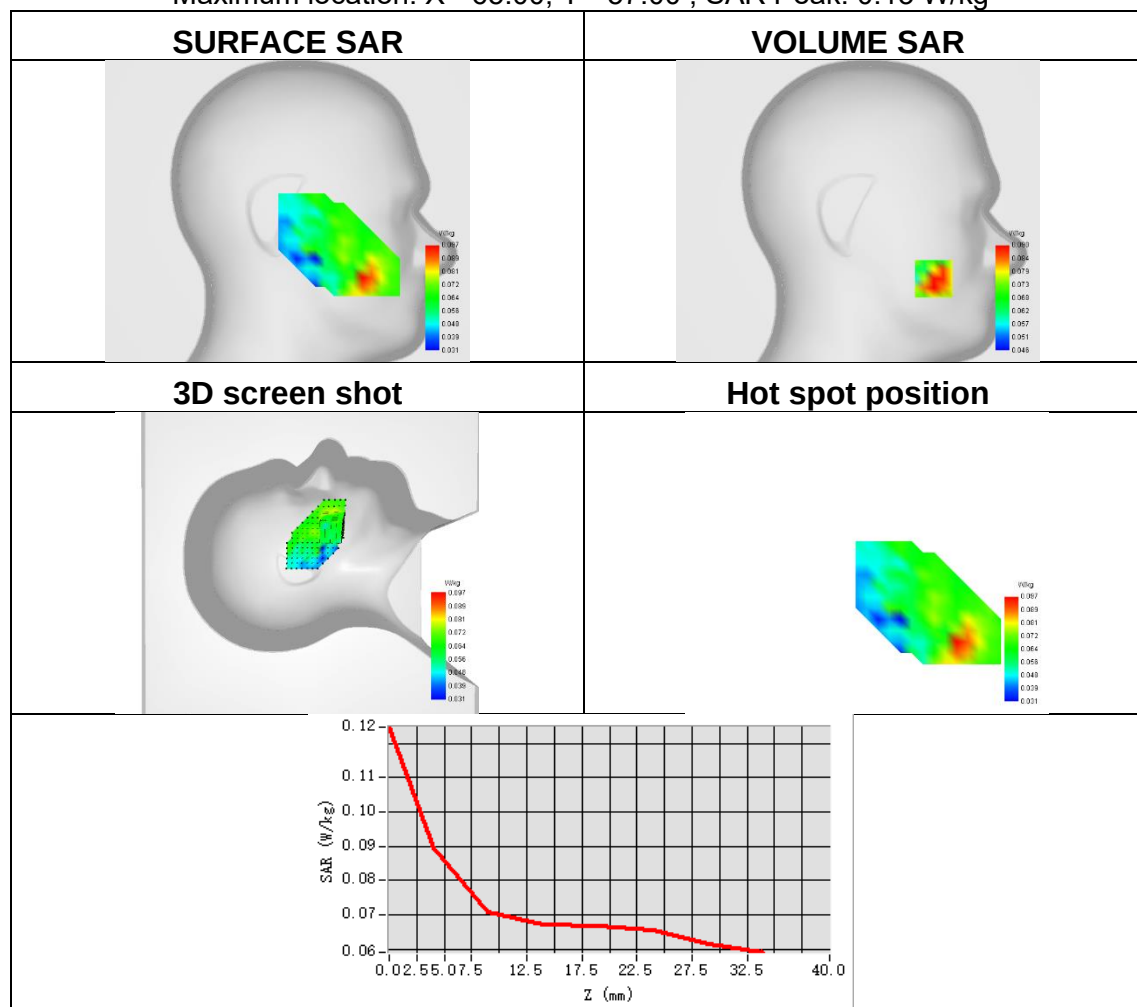




Plot 27:

Test Date	2025-10-23
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 12
Signal	LTE FDD
Frequency	707.5
SAR 10g (W/Kg)	0.067
SAR 1g (W/Kg)	0.094
ConvF	1.72
Relative permittivity	42.61
Conductivity (S/m)	0.86

Maximum location: X=-65.00, Y=-57.00 ; SAR Peak: 0.13 W/kg

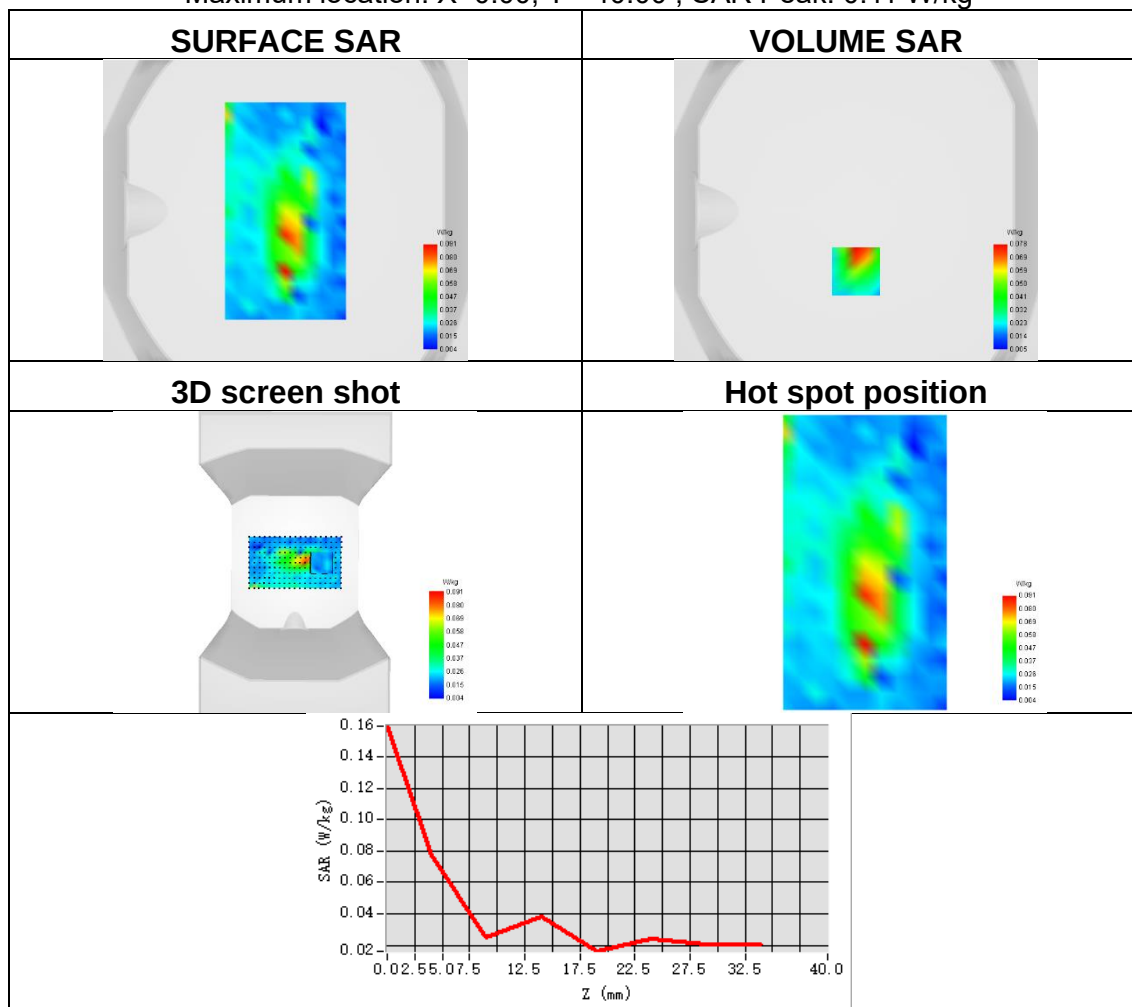




Plot 28:

Test Date	2025-10-23
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	LTE band 12
Signal	LTE FDD
Frequency	707.5
SAR 10g (W/Kg)	0.035
SAR 1g (W/Kg)	0.073
ConvF	1.69
Relative permittivity	42.61
Conductivity (S/m)	0.86

Maximum location: X=0.00, Y=-40.00 ; SAR Peak: 0.11 W/kg

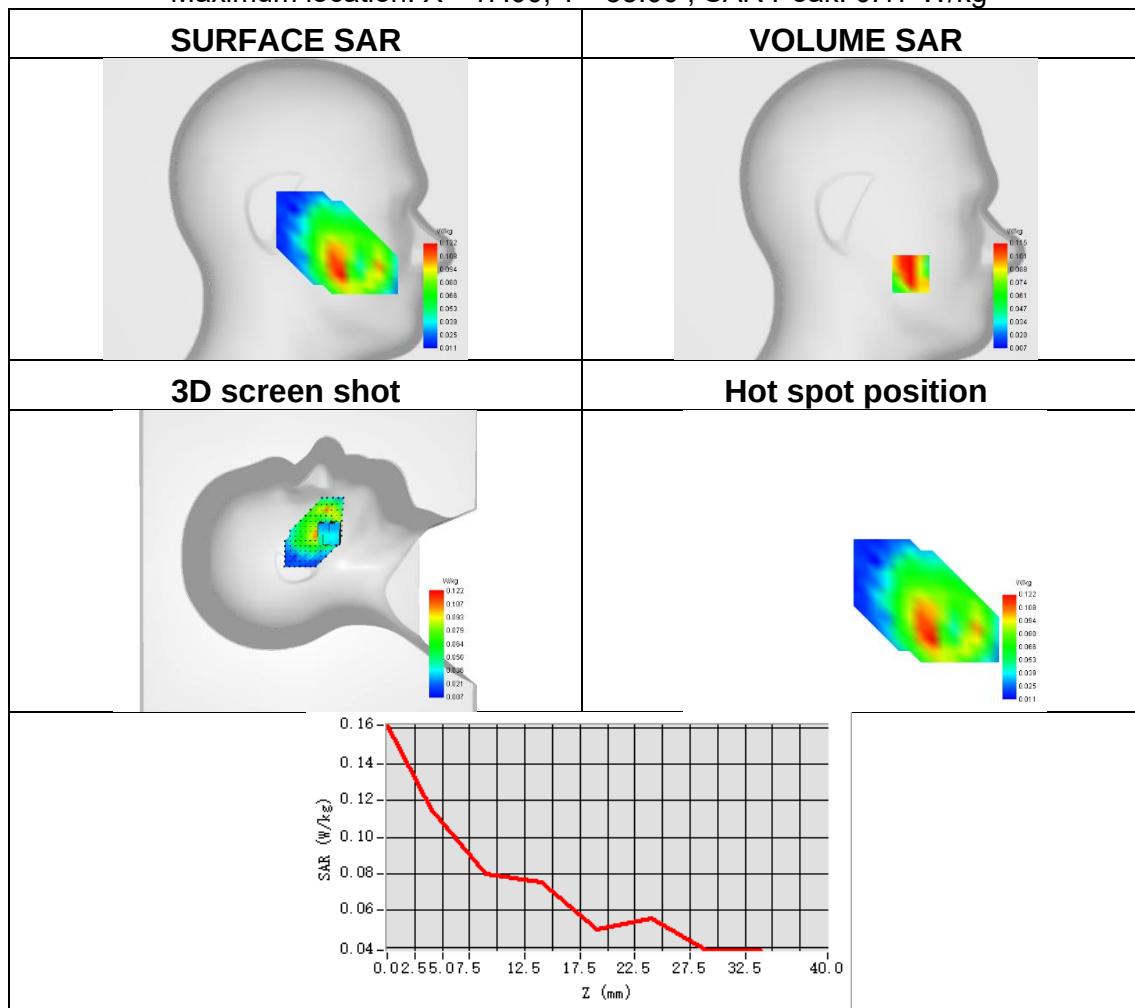




Plot 29:

Test Date	2025-10-26
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 13
Signal	LTE FDD
Frequency	782
SAR 10g (W/Kg)	0.076
SAR 1g (W/Kg)	0.115
ConvF	1.69
Relative permittivity	42.84
Conductivity (S/m)	0.86

Maximum location: X=-47.00, Y=-55.00 ; SAR Peak: 0.17 W/kg

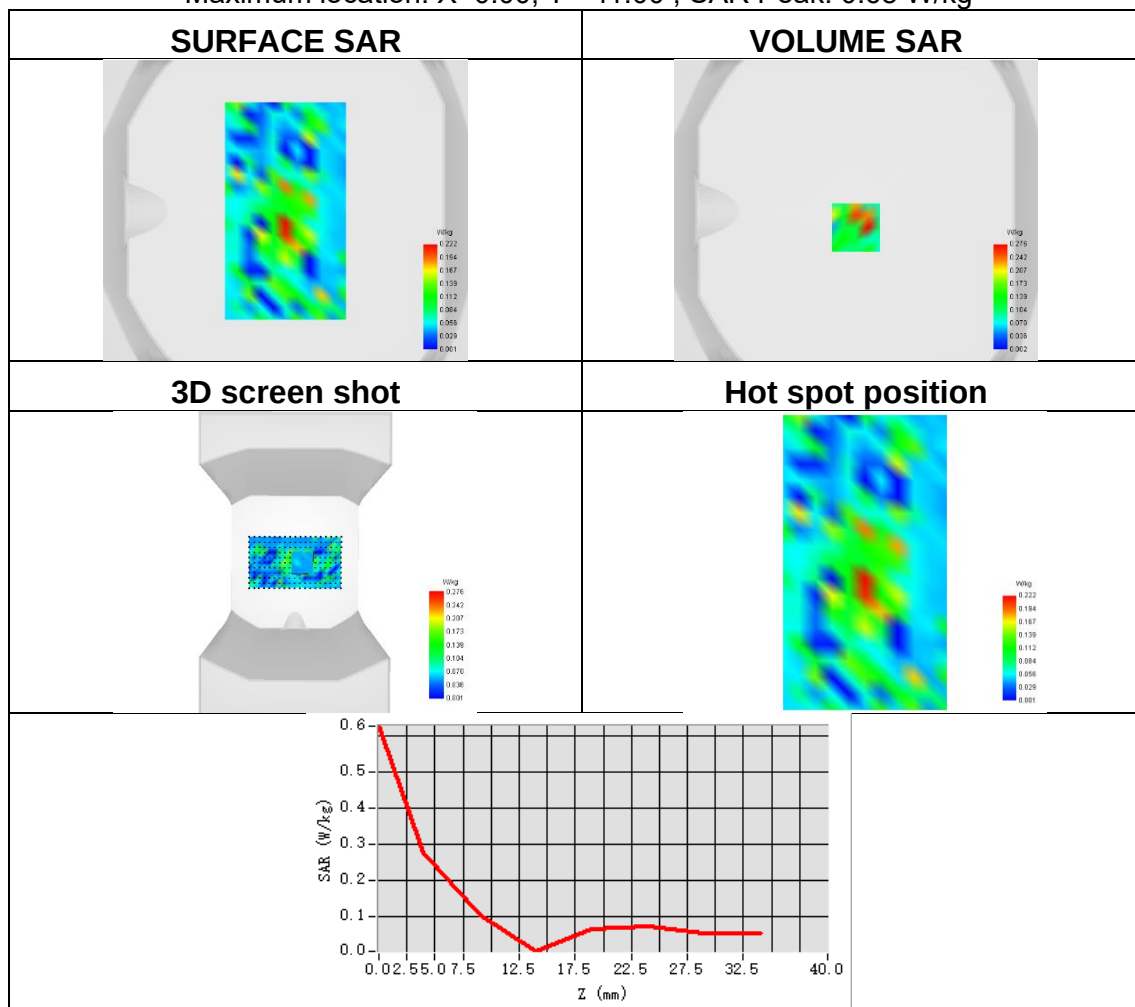




Plot 30:

Test Date	2025-10-26
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	LTE band 13
Signal	LTE FDD
Frequency	782
SAR 10g (W/Kg)	0.115
SAR 1g (W/Kg)	0.277
ConvF	1.69
Relative permittivity	42.84
Conductivity (S/m)	0.86

Maximum location: X=0.00, Y=-11.00 ; SAR Peak: 0.68 W/kg

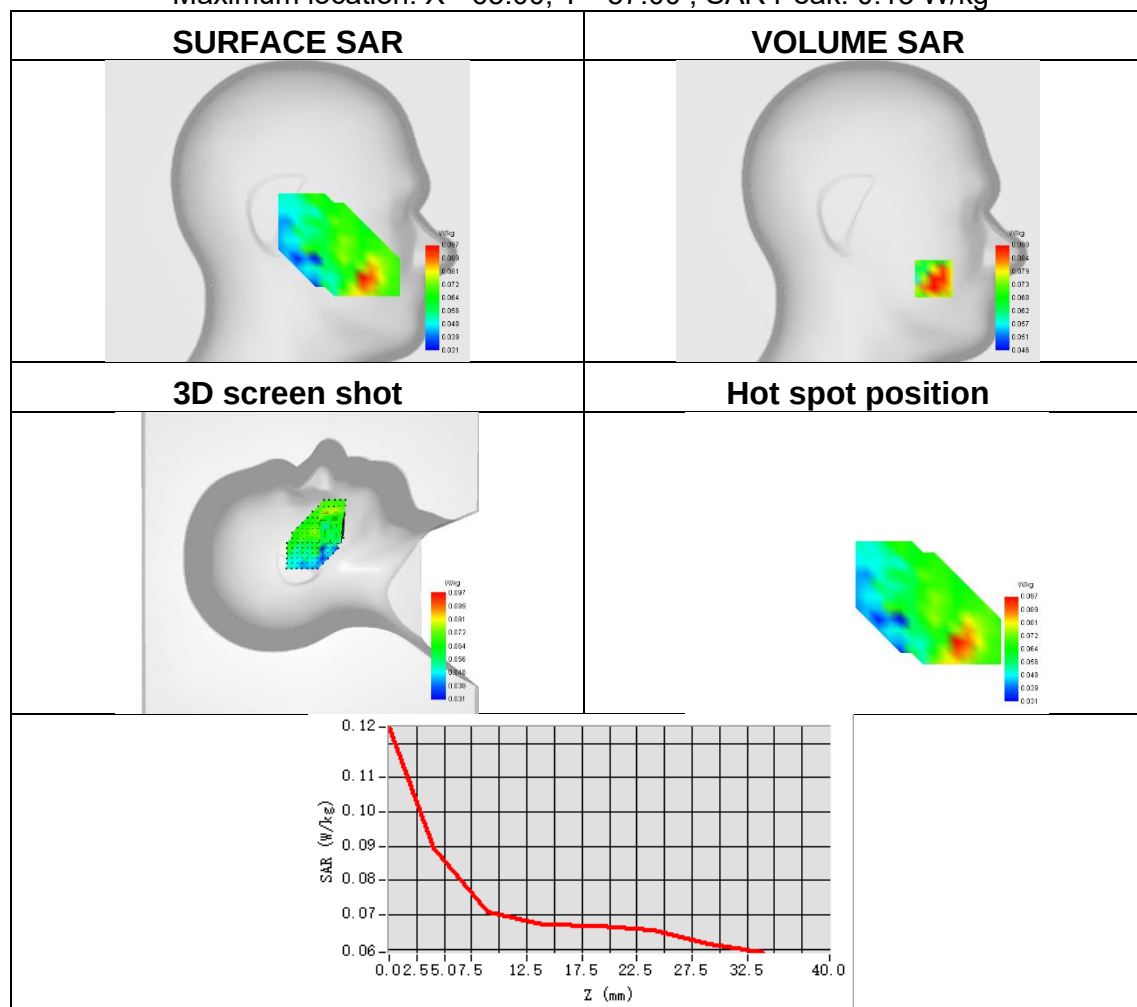




Plot 31:

Test Date	2025-10-23
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 17
Signal	LTE FDD
Frequency	709
SAR 10g (W/Kg)	0.067
SAR 1g (W/Kg)	0.094
ConvF	1.72
Relative permittivity	42.61
Conductivity (S/m)	0.86

Maximum location: X=-65.00, Y=-57.00 ; SAR Peak: 0.13 W/kg

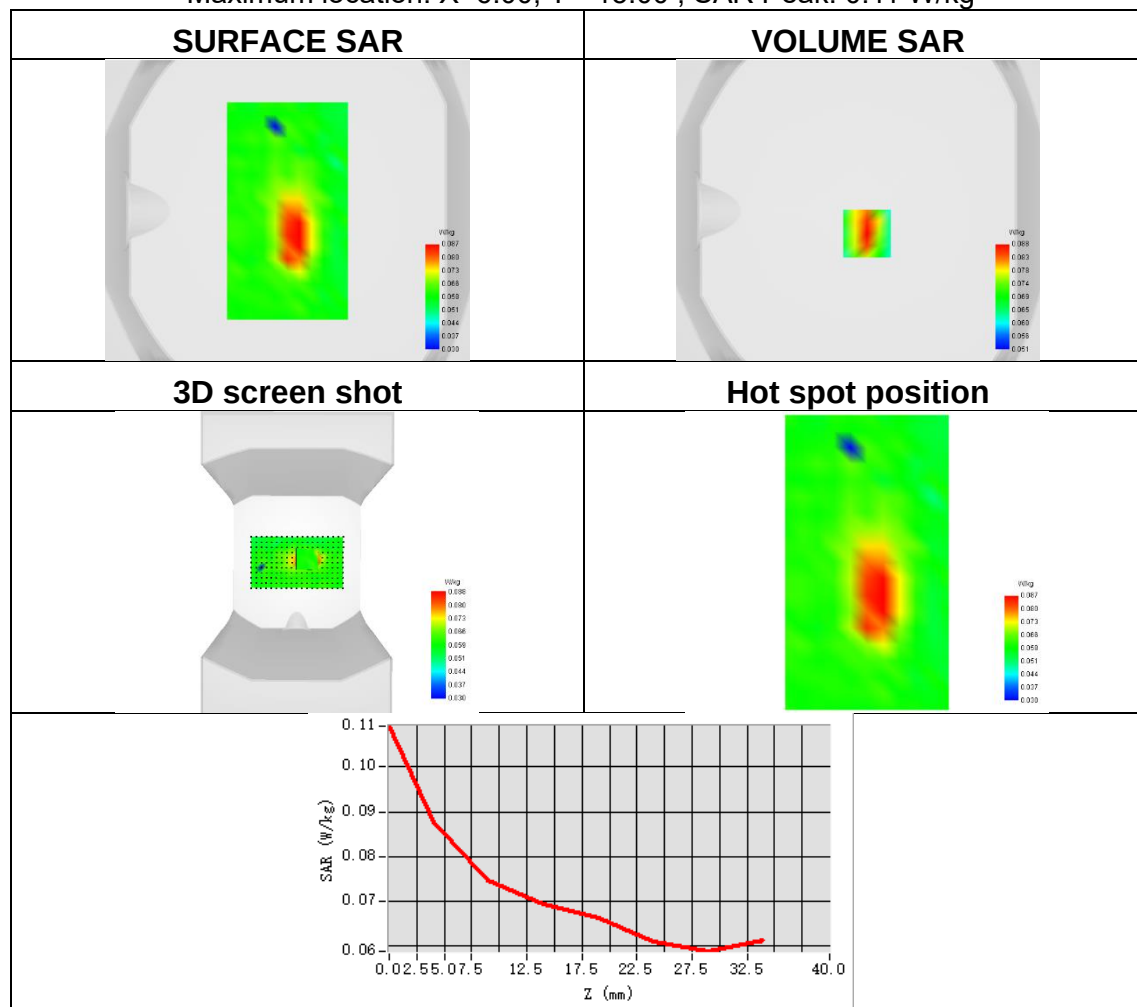




Plot 32:

Test Date	2025-10-23
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	LTE band 17
Signal	LTE FDD
Frequency	709
SAR 10g (W/Kg)	0.076
SAR 1g (W/Kg)	0.091
ConvF	1.72
Relative permittivity	42.61
Conductivity (S/m)	0.86

Maximum location: X=6.00, Y=-15.00 ; SAR Peak: 0.11 W/kg

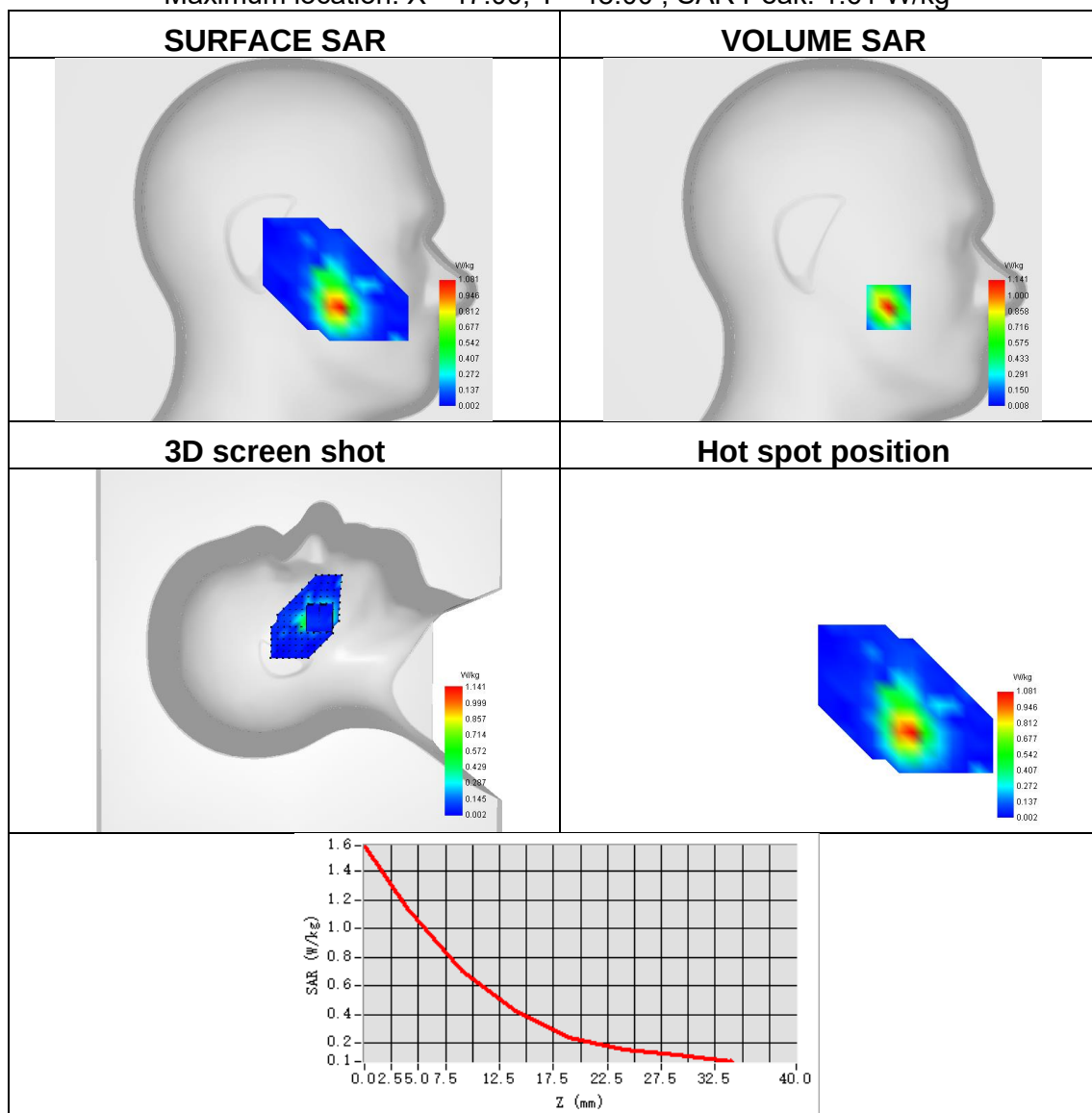




Plot 33:

Test Date	2025-11-16
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	2595
SAR 10g (W/Kg)	0.498
SAR 1g (W/Kg)	0.990
ConvF	2.37
Relative permittivity	39.58
Conductivity (S/m)	2.00

Maximum location: X=-47.00, Y=-48.00 ; SAR Peak: 1.61 W/kg

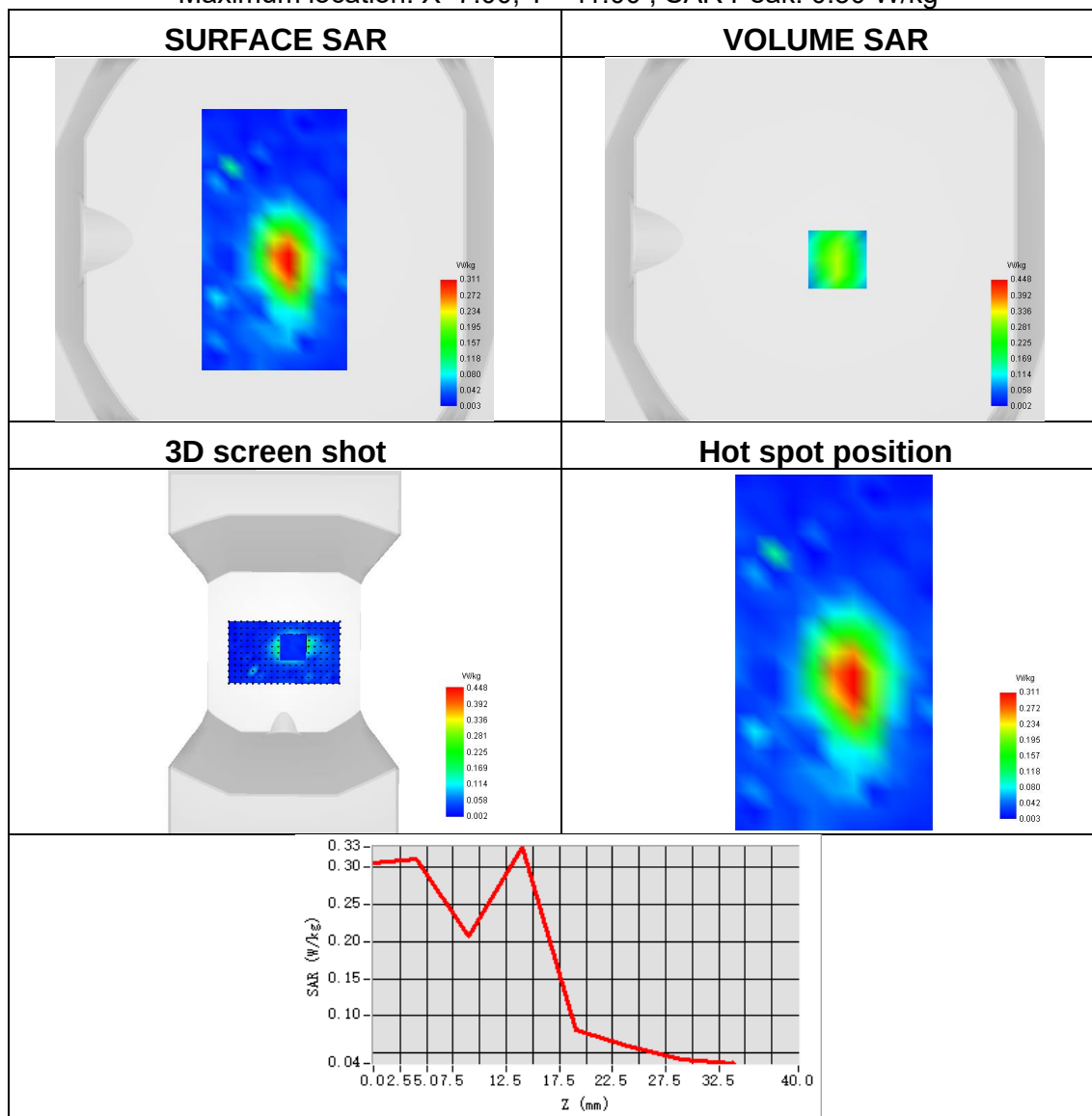




Plot 34:

Test Date	2025-11-16
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	LTE band 38
Signal	LTE TDD
Frequency	2595
SAR 10g (W/Kg)	0.148
SAR 1g (W/Kg)	0.288
ConvF	2.37
Relative permittivity	39.58
Conductivity (S/m)	2.00

Maximum location: X=7.00, Y=-11.00 ; SAR Peak: 0.50 W/kg

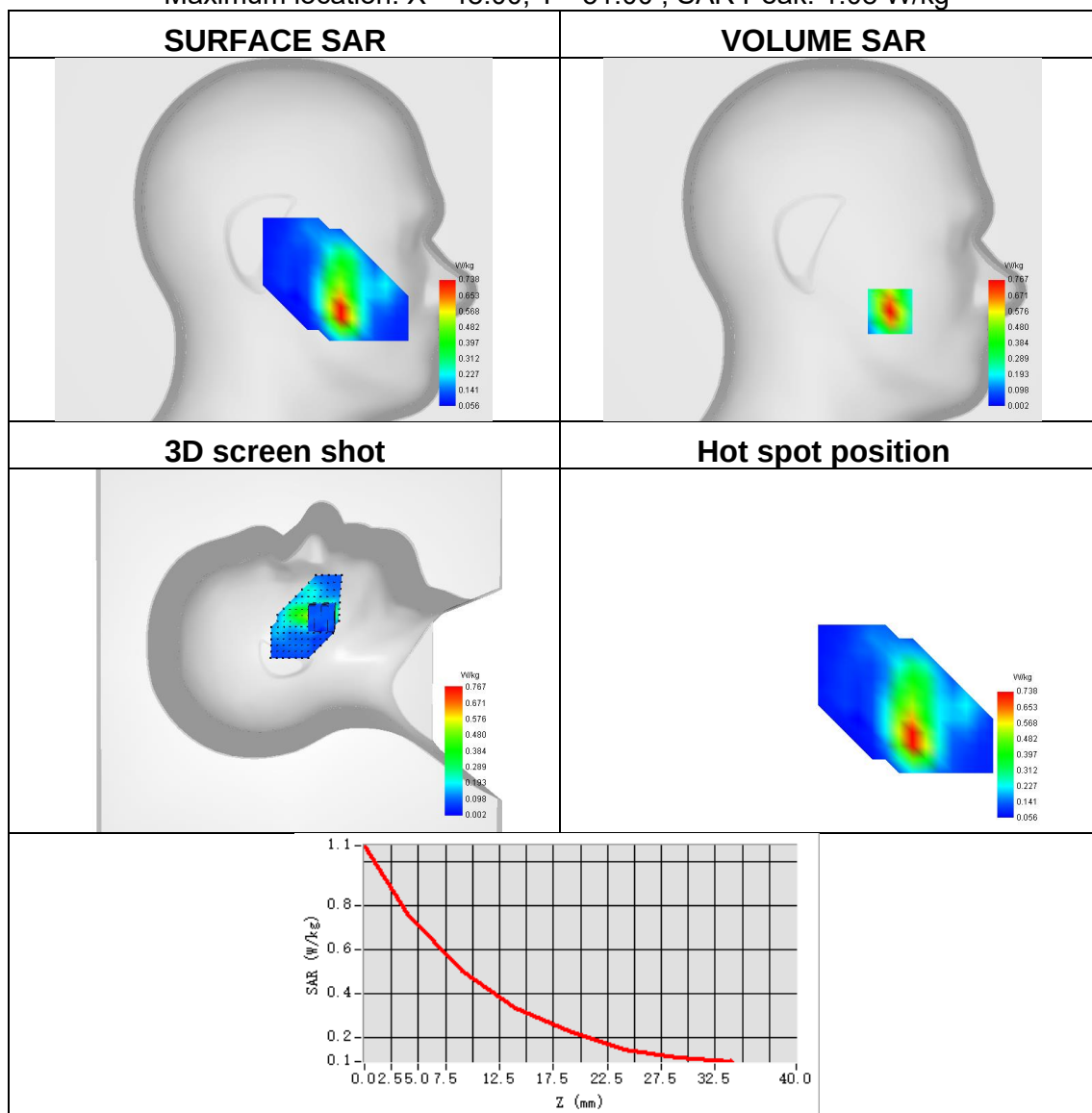




Plot 35:

Test Date	2025-11-08
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 40
Signal	LTE TDD
Frequency	2310
SAR 10g (W/Kg)	0.381
SAR 1g (W/Kg)	0.697
ConvF	2.33
Relative permittivity	40.00
Conductivity (S/m)	1.69

Maximum location: X=-48.00, Y=-51.00 ; SAR Peak: 1.08 W/kg

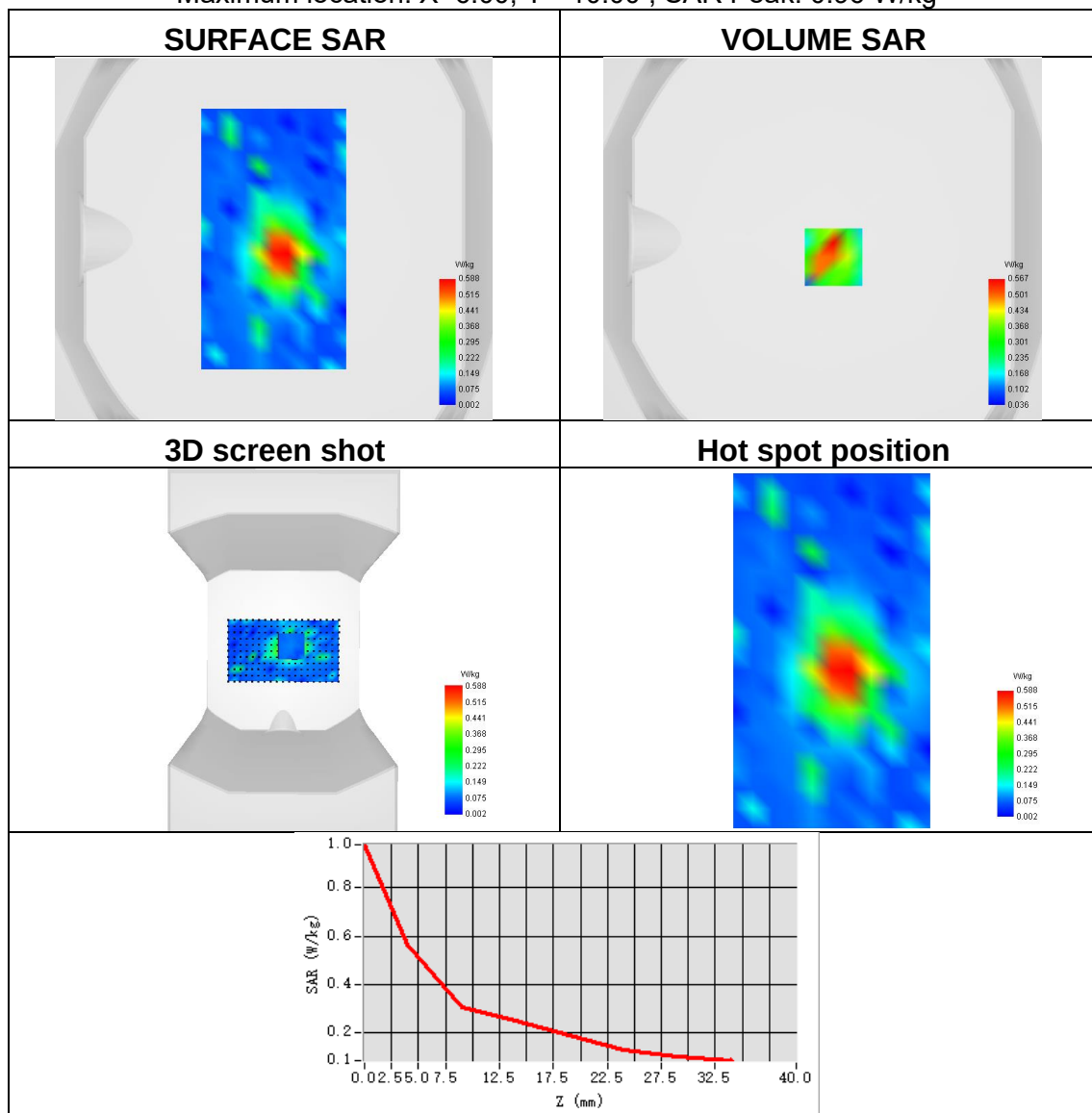




Plot 36:

Test Date	2025-11-08
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	LTE band 40
Signal	LTE TDD
Frequency	2310
SAR 10g (W/Kg)	0.295
SAR 1g (W/Kg)	0.530
ConvF	2.33
Relative permittivity	40.00
Conductivity (S/m)	1.69

Maximum location: X=6.00, Y=-10.00 ; SAR Peak: 0.96 W/kg

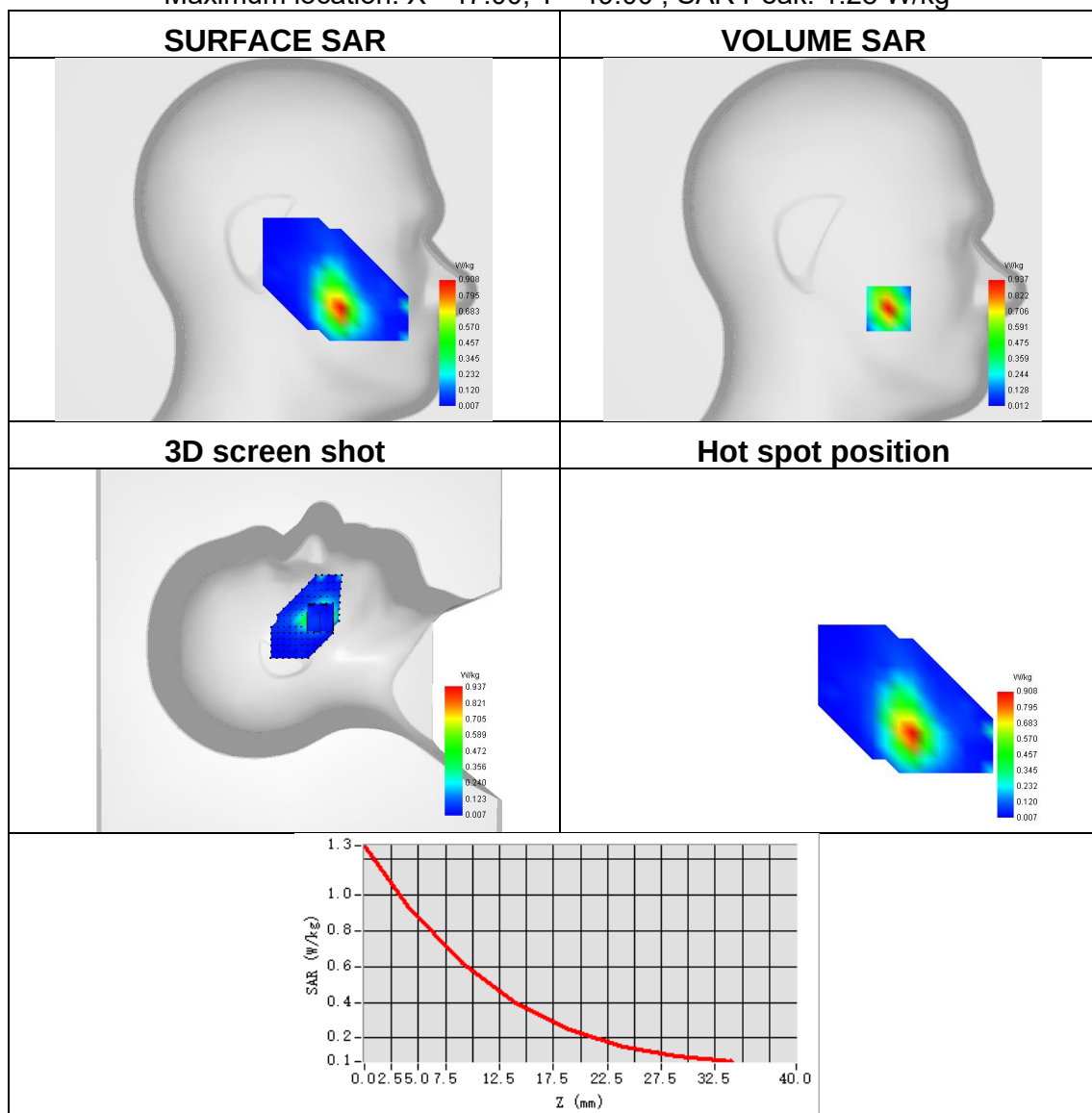




Plot 37:

Test Date	2025-11-16
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 41
Signal	LTE TDD
Frequency	2680
SAR 10g (W/Kg)	0.438
SAR 1g (W/Kg)	0.835
ConvF	2.37
Relative permittivity	39.58
Conductivity (S/m)	2.00

Maximum location: X=-47.00, Y=-49.00 ; SAR Peak: 1.28 W/kg

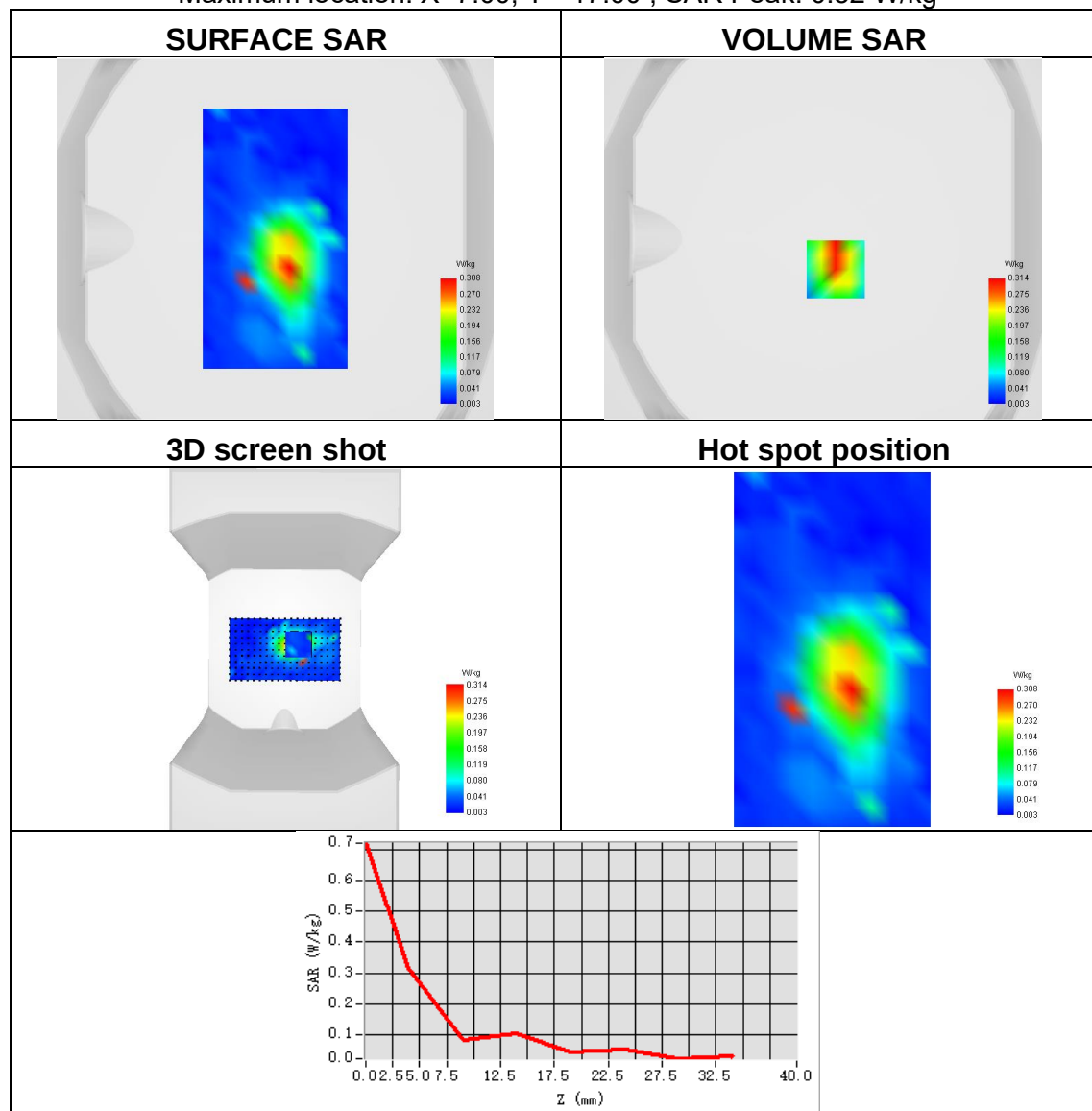




Plot 38:

Test Date	2025-11-16
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	LTE band 41
Signal	LTE TDD
Frequency	2680
SAR 10g (W/Kg)	0.146
SAR 1g (W/Kg)	0.299
ConvF	2.37
Relative permittivity	39.58
Conductivity (S/m)	2.00

Maximum location: X=7.00, Y=-17.00 ; SAR Peak: 0.52 W/kg

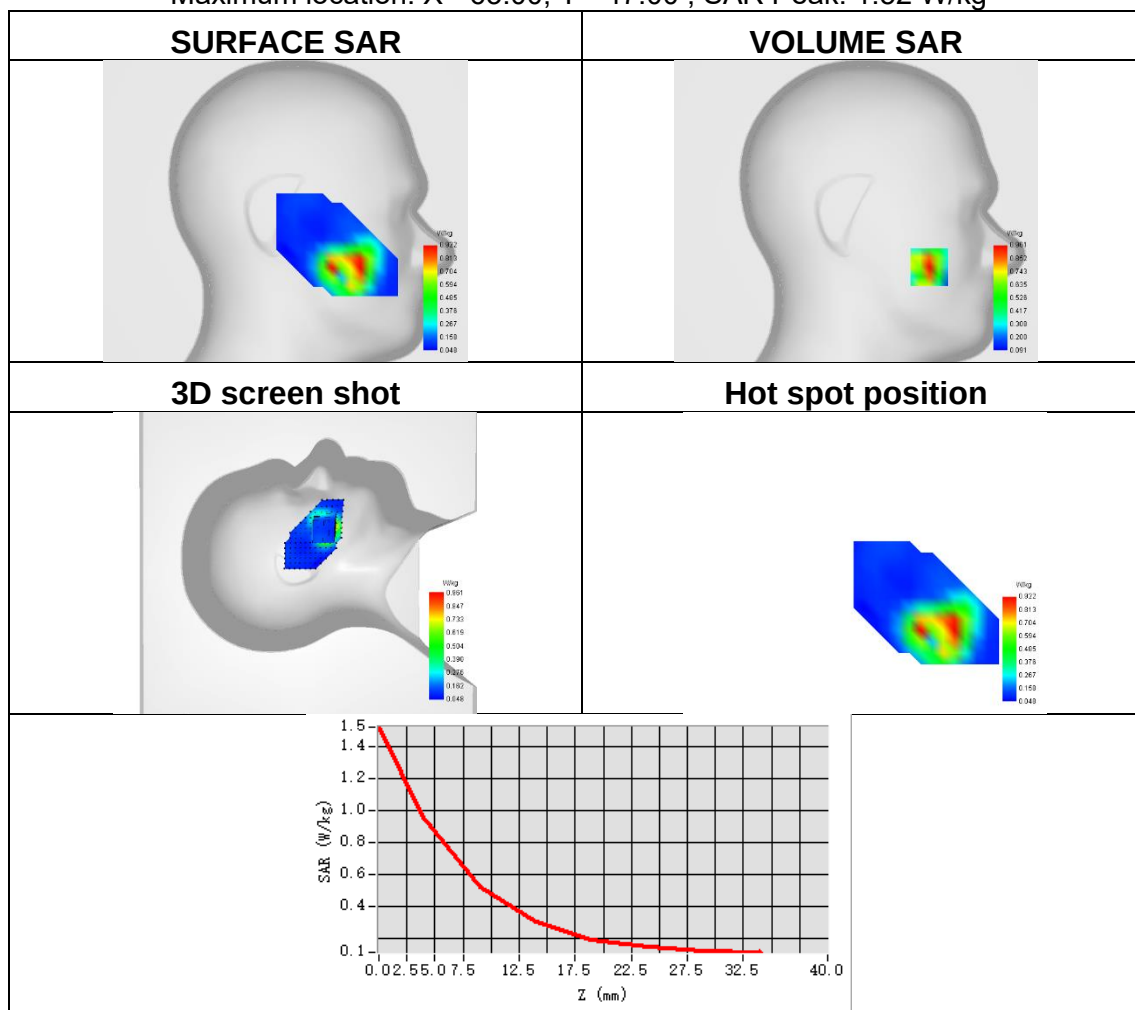




Plot 39:

Test Date	2025-10-11
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 66
Signal	LTE FDD
Frequency	1770
SAR 10g (W/Kg)	0.441
SAR 1g (W/Kg)	0.890
ConvF	1.95
Relative permittivity	41.05
Conductivity (S/m)	1.44

Maximum location: X=-63.00, Y=-47.00 ; SAR Peak: 1.52 W/kg

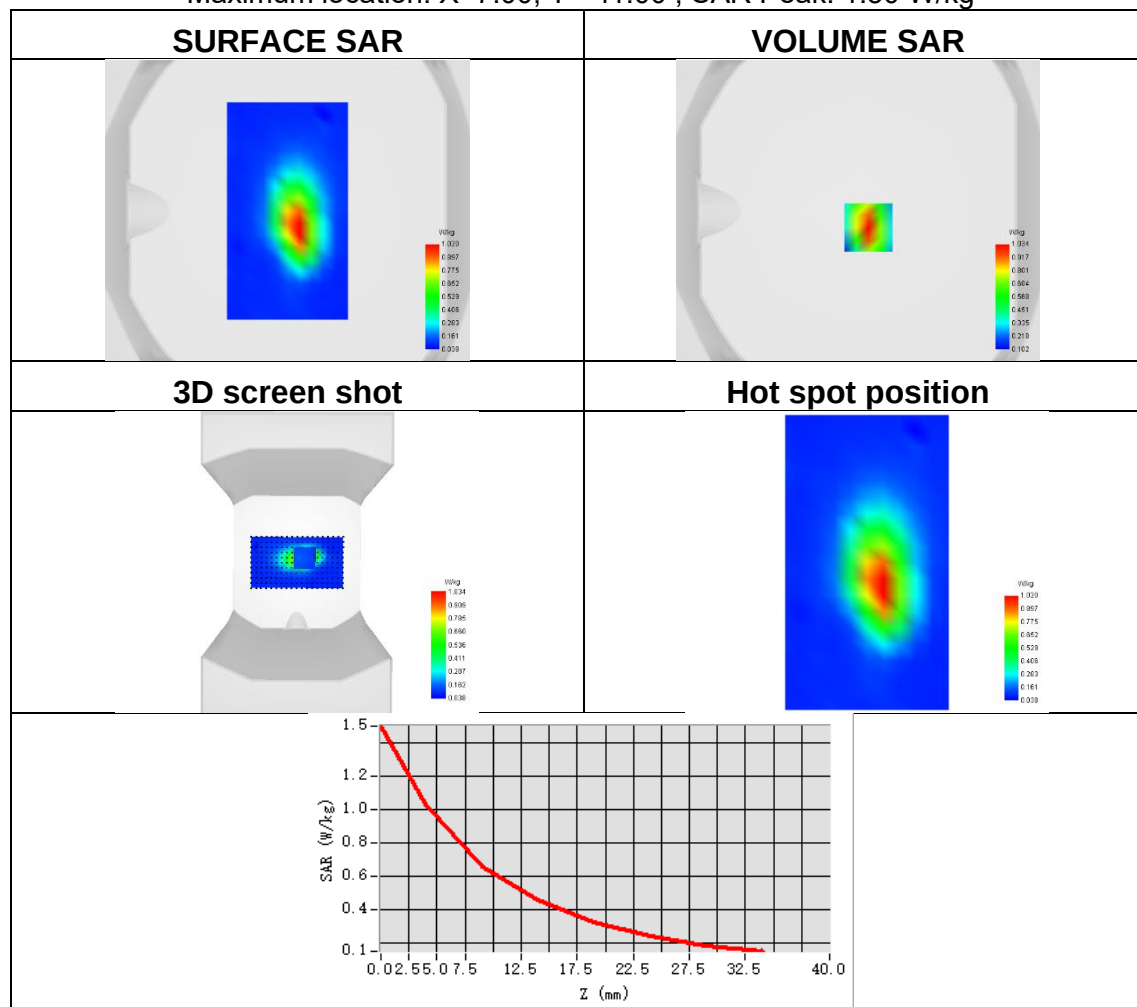




Plot 40:

Test Date	2025-10-11
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	LTE band 66
Signal	LTE FDD
Frequency	1770
SAR 10g (W/Kg)	0.562
SAR 1g (W/Kg)	0.962
ConvF	1.95
Relative permittivity	41.05
Conductivity (S/m)	1.44

Maximum location: X=7.00, Y=-11.00 ; SAR Peak: 1.50 W/kg





Appendix C. Probe Calibration and Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※※END OF THE REPORT※※※※※