

MEASUREMENT 27

Type: Phone measurement (Complete)
Date of measurement: 2023-03-27
Measurement duration: 12 minutes 3 seconds

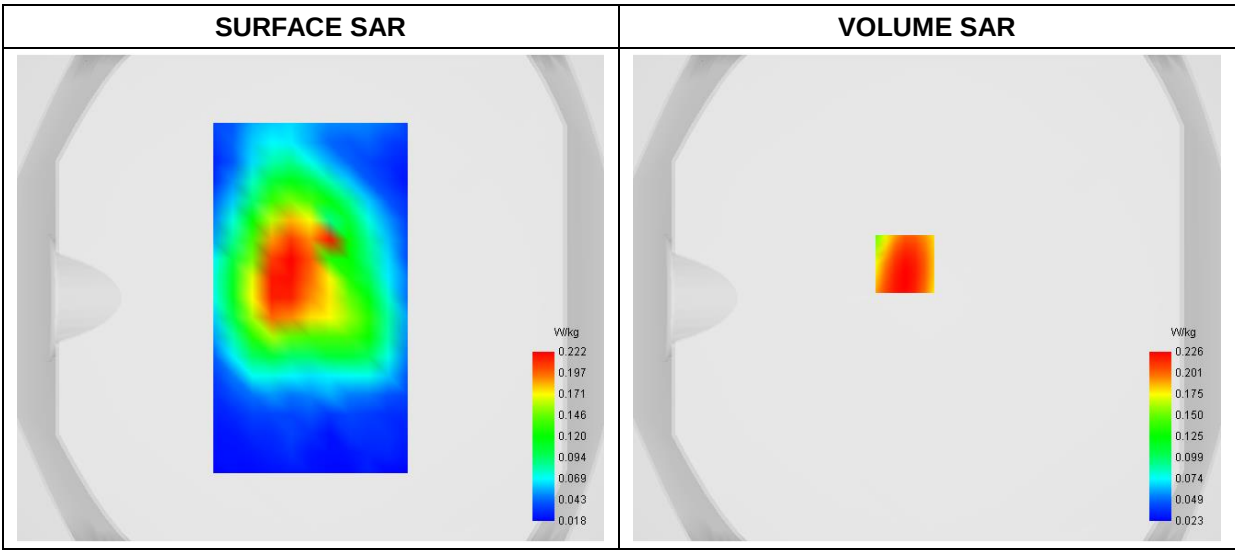
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=4mm dy=4mm dz=2mm
Phantom	Flat Plane
Device Position	Back
Band	DC_12A_N77A_3450-3550MHz
Channels	DFT-s-OFDM QPSK, 100MHz, 1RB, High
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	3500.000000
Relative Permittivity (real part)	50.521692
Conductivity (S/m)	3.251828
Power Variation (%)	1.650000
Ambient Temperature	23.4
Liquid Temperature	23.4

C. SAR Surface and Volume

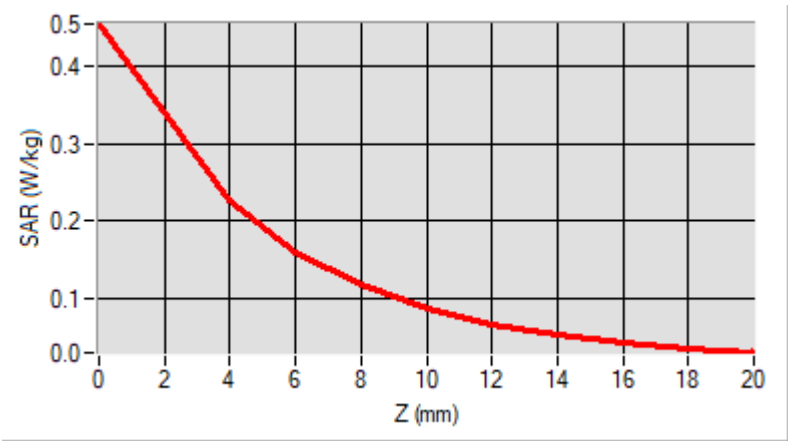


Maximum location: X=-9.00, Y=14.00
D. SAR 1g & 10g

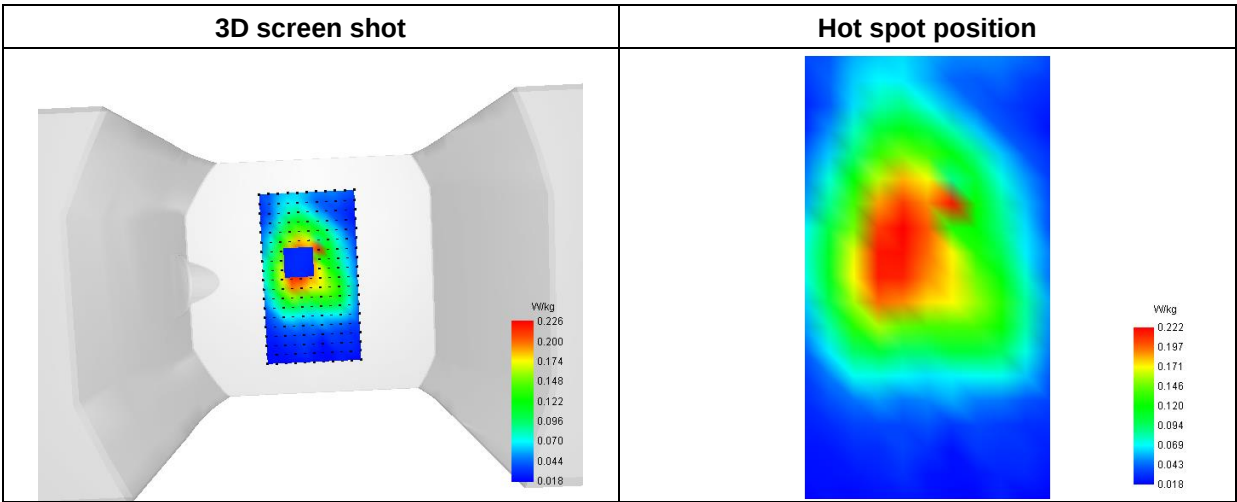
SAR 10g (W/Kg)	0.118501
SAR 1g (W/Kg)	0.220057

E. Z Axis Scan

Z (mm)	0.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00
SAR (W/Kg)	0.4543	0.2259	0.1585	0.1169	0.0867	0.0658	0.0527	0.0420	0.0349



F. 3D Image



MEASUREMENT 28

Type: Phone measurement (Complete)
Date of measurement: 2023-03-27
Measurement duration: 12 minutes 3 seconds

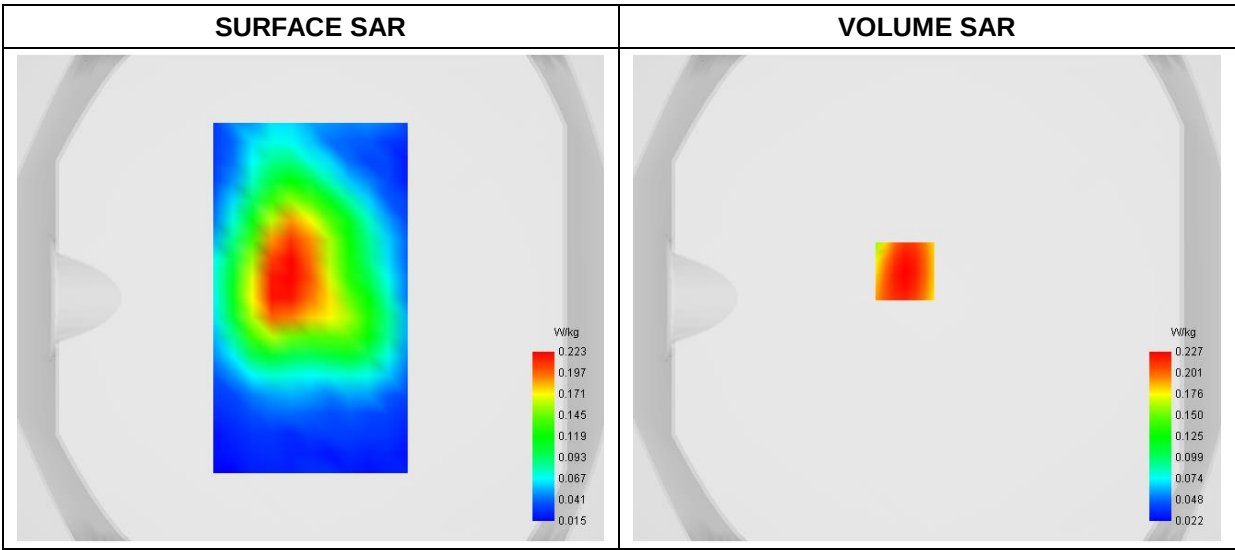
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=4mm dy=4mm dz=2mm
Phantom	Flat Plane
Device Position	Back
Band	DC_12A_N77A_3700-3980MHz
Channels	DFT-s-OFDM QPSK, 100MHz, 1RB, Middle
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	3750.000000
Relative Permittivity (real part)	48.522187
Conductivity (S/m)	3.560293
Power Variation (%)	1.860000
Ambient Temperature	23.4
Liquid Temperature	23.4

C. SAR Surface and Volume



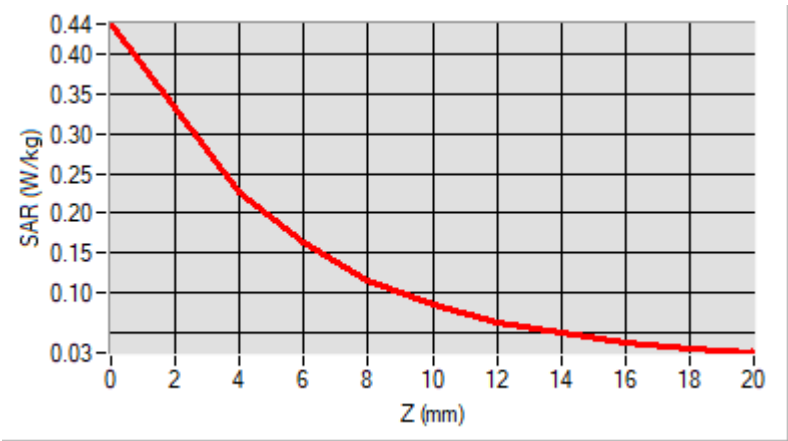
Maximum location: X=-9.00, Y=11.00

D. SAR 1g & 10g

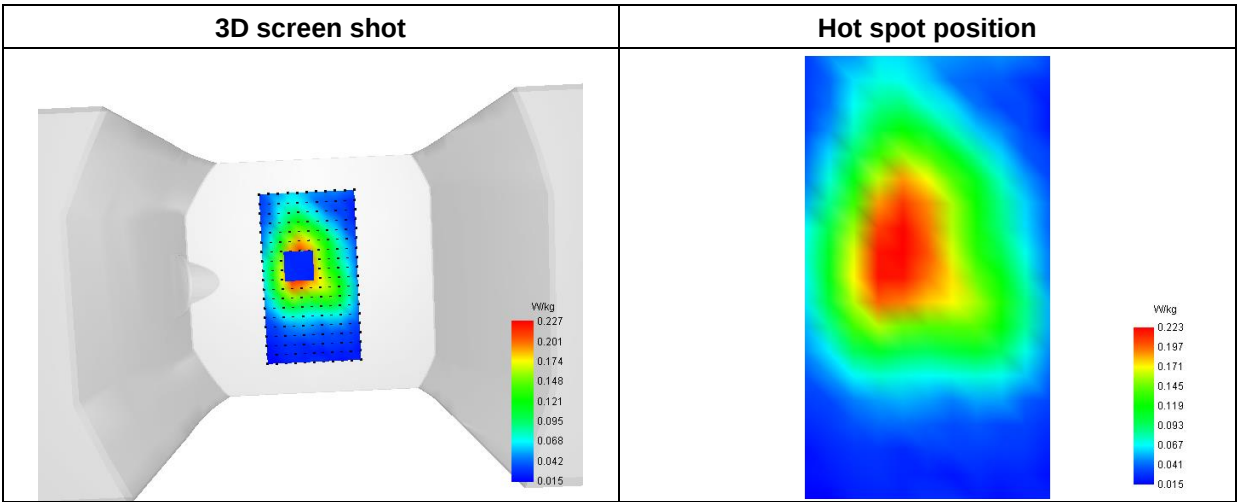
SAR 10g (W/Kg)	0.118450
SAR 1g (W/Kg)	0.220805

E. Z Axis Scan

Z (mm)	0.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00
SAR (W/Kg)	0.4377	0.2271	0.1624	0.1165	0.0852	0.0639	0.0493	0.0390	0.0314



F. 3D Image



MEASUREMENT 29

Type: Phone measurement (Complete)
Date of measurement: 2023-03-23
Measurement duration: 12 minutes 3 seconds

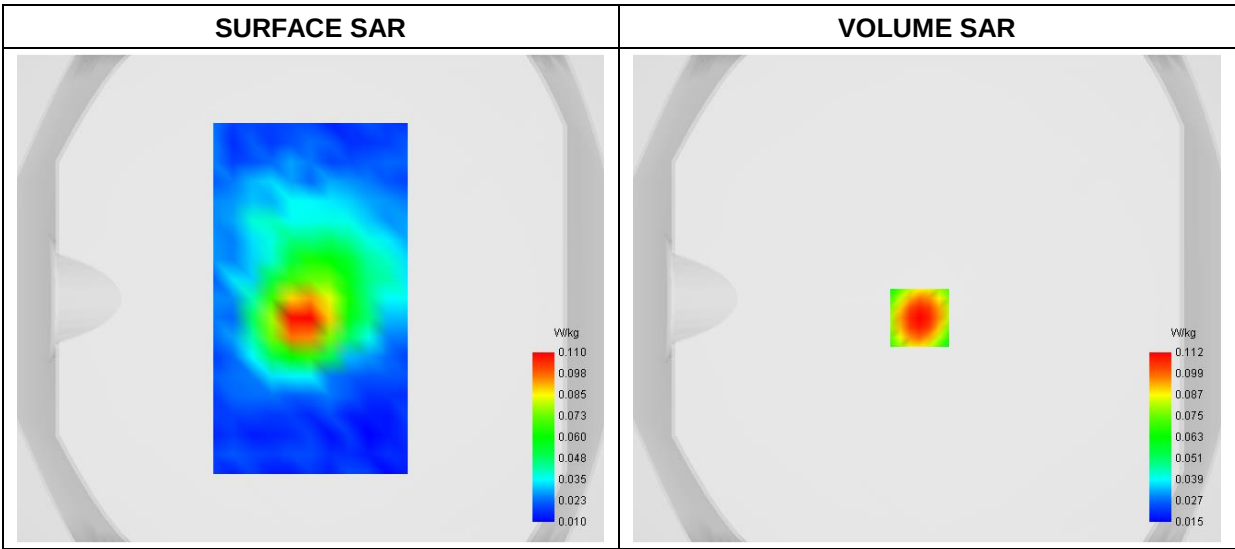
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=4mm dy=4mm dz=2mm
Phantom	Flat Plane
Device Position	Back
Band	WiFi_802.11b-ANT1
Channels	Middle
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	2437.000000
Relative Permittivity (real part)	53.580212
Conductivity (S/m)	1.932559
Power Variation (%)	2.403721
Ambient Temperature	23.5
Liquid Temperature	23.5

C. SAR Surface and Volume



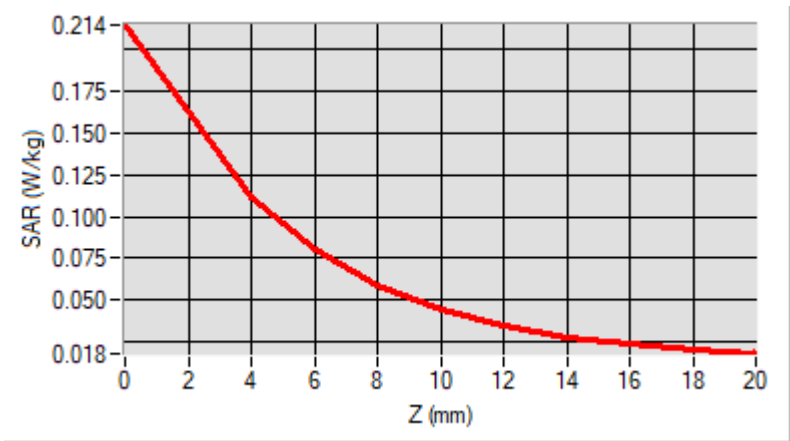
Maximum location: X=-3.00, Y=-8.00

D. SAR 1g & 10g

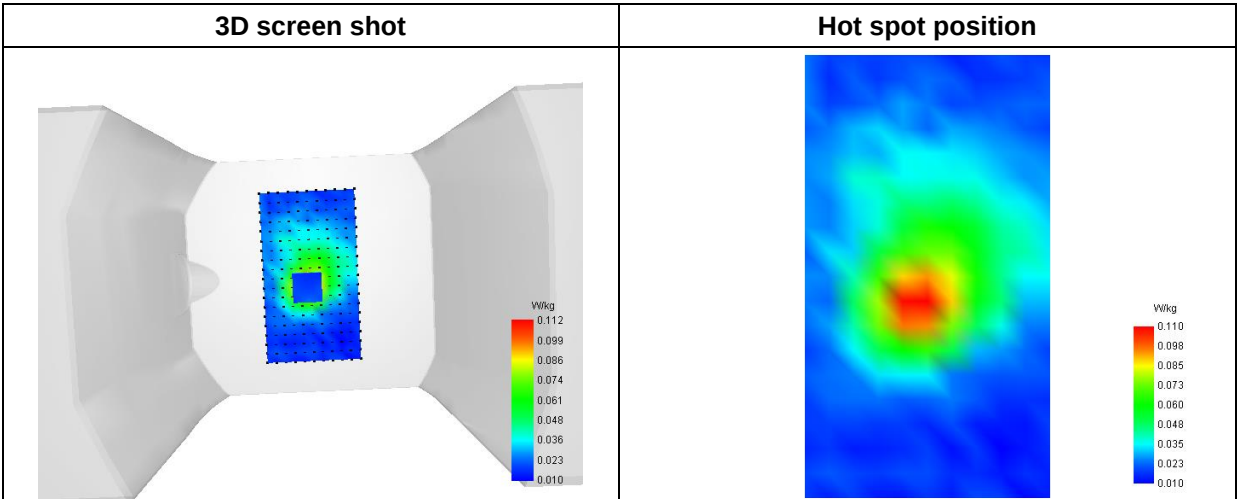
SAR 10g (W/Kg)	0.057465
SAR 1g (W/Kg)	0.108052

E. Z Axis Scan

Z (mm)	0.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00
SAR (W/Kg)	0.2142	0.1116	0.0805	0.0587	0.0441	0.0345	0.0281	0.0237	0.0206



F. 3D Image



MEASUREMENT 30

Type: Phone measurement (Complete)
Date of measurement: 2023-03-28
Measurement duration: 12 minutes 3 seconds

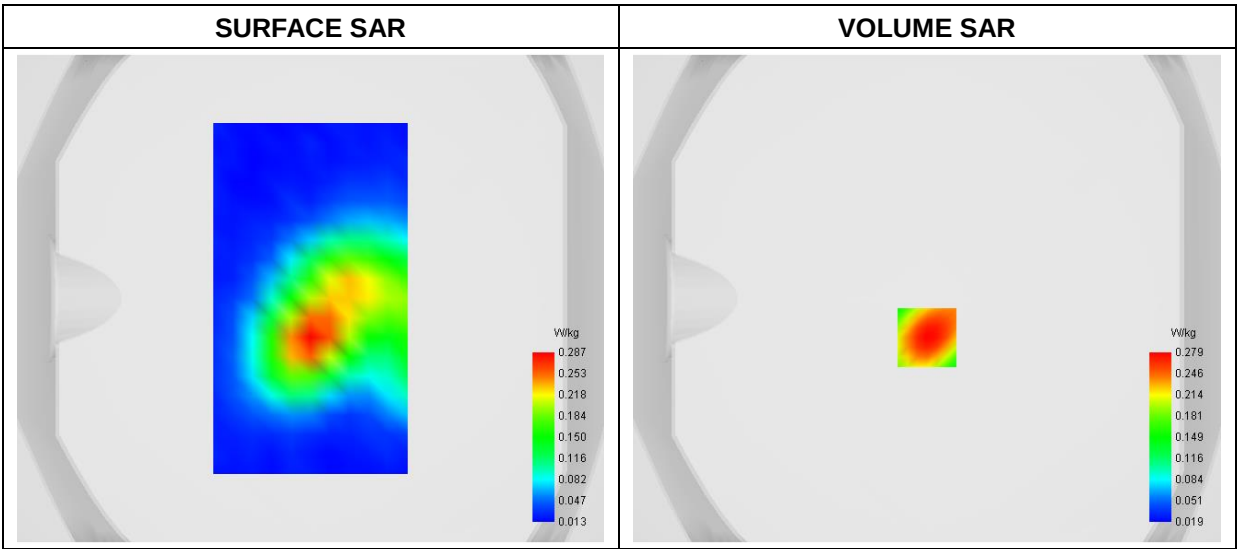
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=4mm dy=4mm dz=2mm
Phantom	Flat Plane
Device Position	Back
Band	WiFi(5.2GHz)_802.11a-ANT1
Channels	Low
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	5180.000000
Relative Permittivity (real part)	47.112911
Conductivity (S/m)	5.431483
Power Variation (%)	0.542660
Ambient Temperature	22.3
Liquid Temperature	22.3

C. SAR Surface and Volume



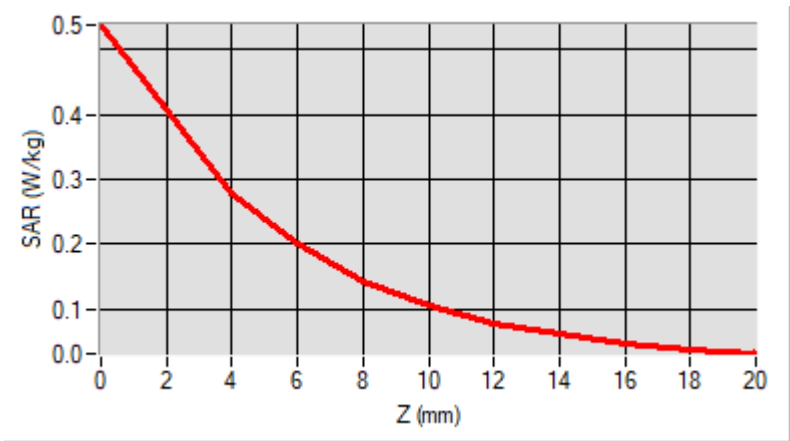
Maximum location: X=0.00, Y=-16.00

D. SAR 1g & 10g

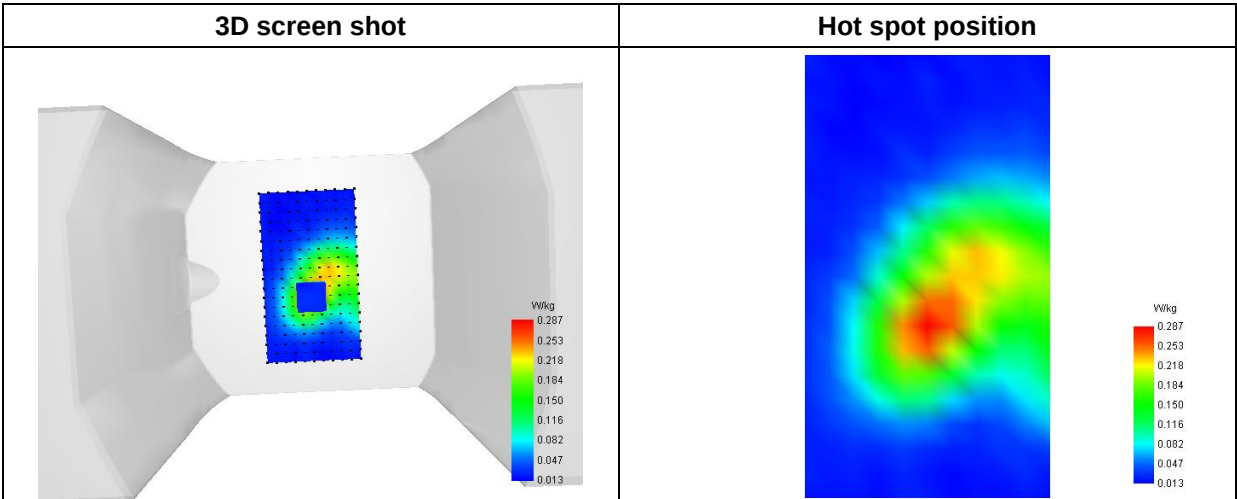
SAR 10g (W/Kg)	0.135705
SAR 1g (W/Kg)	0.237898

E. Z Axis Scan

Z (mm)	0.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00
SAR (W/Kg)	0.5278	0.2689	0.1895	0.1430	0.1036	0.0784	0.0605	0.0478	0.0384



F. 3D Image



MEASUREMENT 31

Type: Phone measurement (Complete)
Date of measurement: 2023-03-28
Measurement duration: 12 minutes 3 seconds

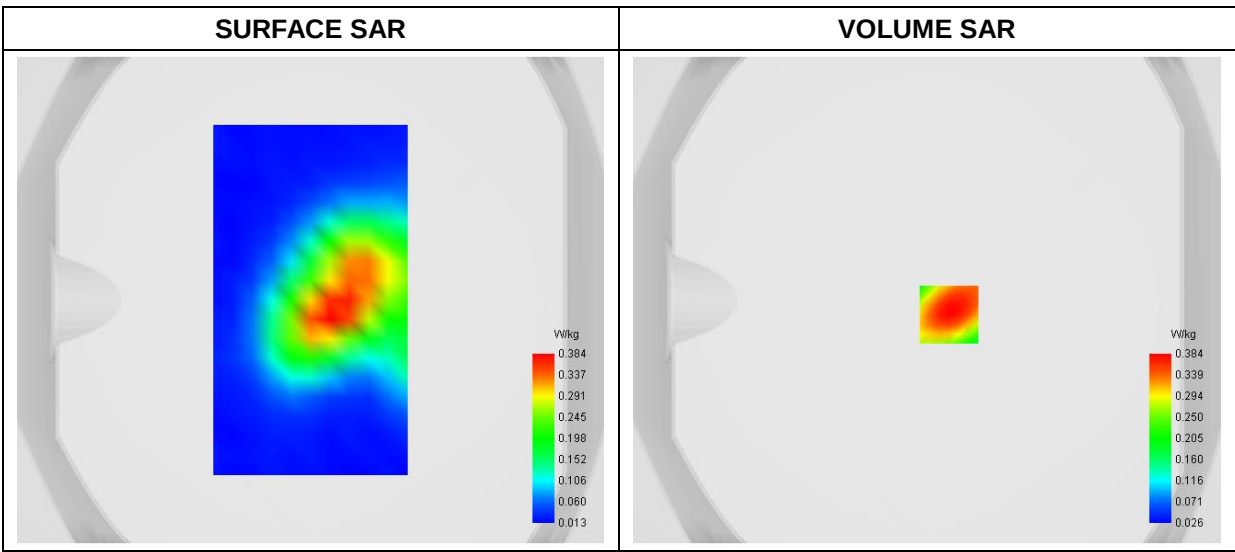
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=4mm dy=4mm dz=2mm
Phantom	Flat Plane
Device Position	Back
Band	WiFi(5.3GHz)_802.11n (HT20)-ANT1
Channels	High
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	5320.000000
Relative Permittivity (real part)	46.912839
Conductivity (S/m)	5.641929
Power Variation (%)	0.463782
Ambient Temperature	22.3
Liquid Temperature	22.3

C. SAR Surface and Volume

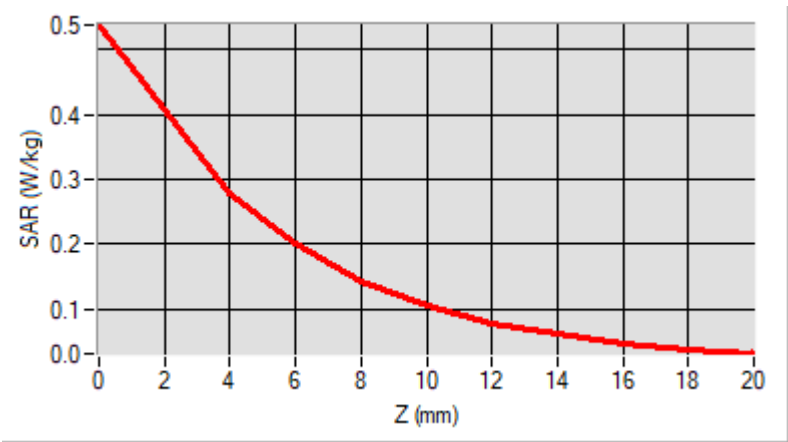


Maximum location: X=9.00, Y=-6.00
D. SAR 1g & 10g

SAR 10g (W/Kg)	0.125201
SAR 1g (W/Kg)	0.224642

E. Z Axis Scan

Z (mm)	0.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00
SAR (W/Kg)	0.5112	0.2557	0.1851	0.1302	0.1014	0.0744	0.0575	0.0458	0.0354
				4					



F. 3D Image

3D screen shot	Hot spot position
A 3D model of a device with a color-coded SAR distribution. The color scale ranges from 0.001 (blue) to 0.231 (red) W/kg. The highest SAR values are concentrated in the center of the device.	A 2D heatmap showing the hot spot position. The color scale ranges from 0.001 (blue) to 0.187 (red) W/kg. The highest SAR values are concentrated in the center of the device.

MEASUREMENT 32

Type: Phone measurement (Complete)
Date of measurement: 2023-03-28
Measurement duration: 12 minutes 3 seconds

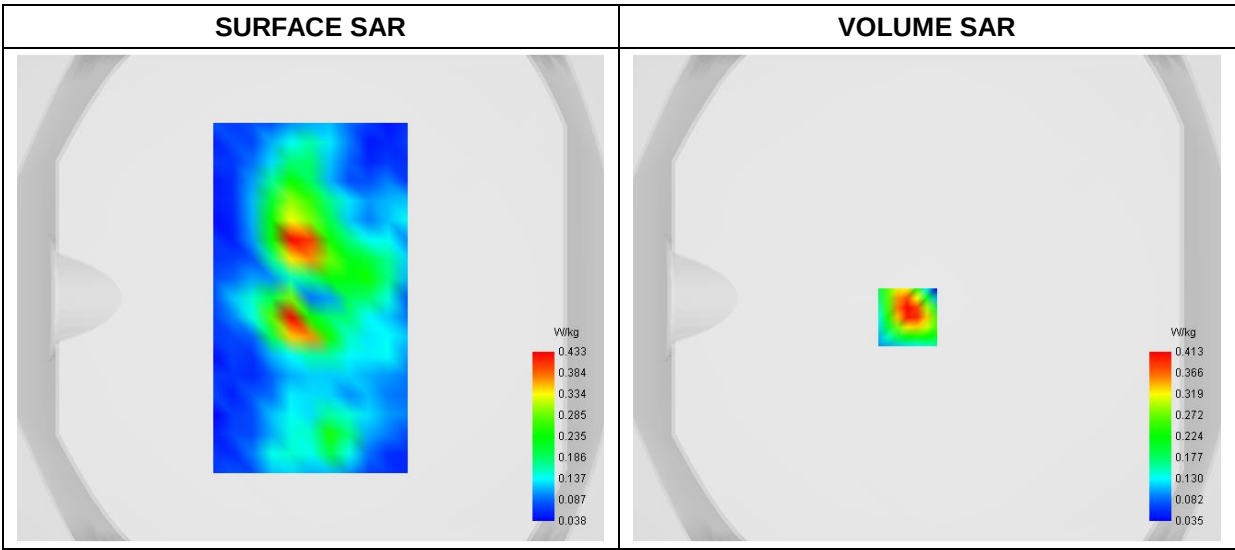
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=4mm dy=4mm dz=2mm
Phantom	Flat Plane
Device Position	Back
Band	WiFi(5.6GHz)_802.11a-ANT1
Channels	High
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	5700.000000
Relative Permittivity (real part)	47.351254
Conductivity (S/m)	5.730512
Power Variation (%)	0.848732
Ambient Temperature	22.3
Liquid Temperature	22.3

C. SAR Surface and Volume

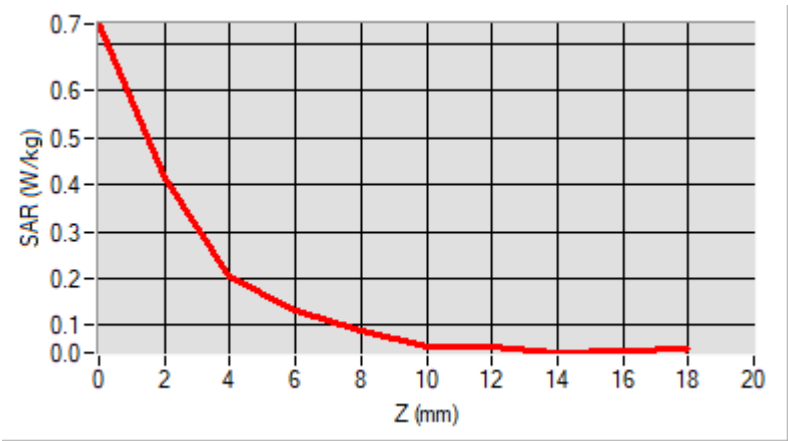


Maximum location: X=-8.00, Y=-8.00
D. SAR 1g & 10g

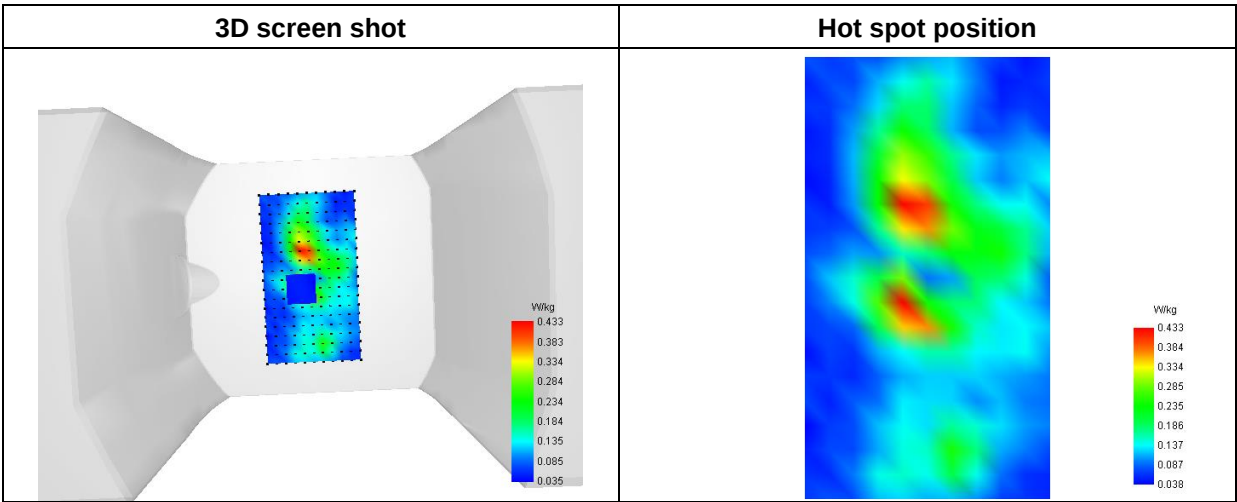
SAR 10g (W/Kg)	0.109319
SAR 1g (W/Kg)	0.217975

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	0.7326	0.4035	0.2041	0.1240	0.0884	0.0550	0.0540	0.0423	0.0456



F. 3D Image



MEASUREMENT 33

Type: Phone measurement (Complete)
Date of measurement: 2023-03-28
Measurement duration: 12 minutes 3 seconds

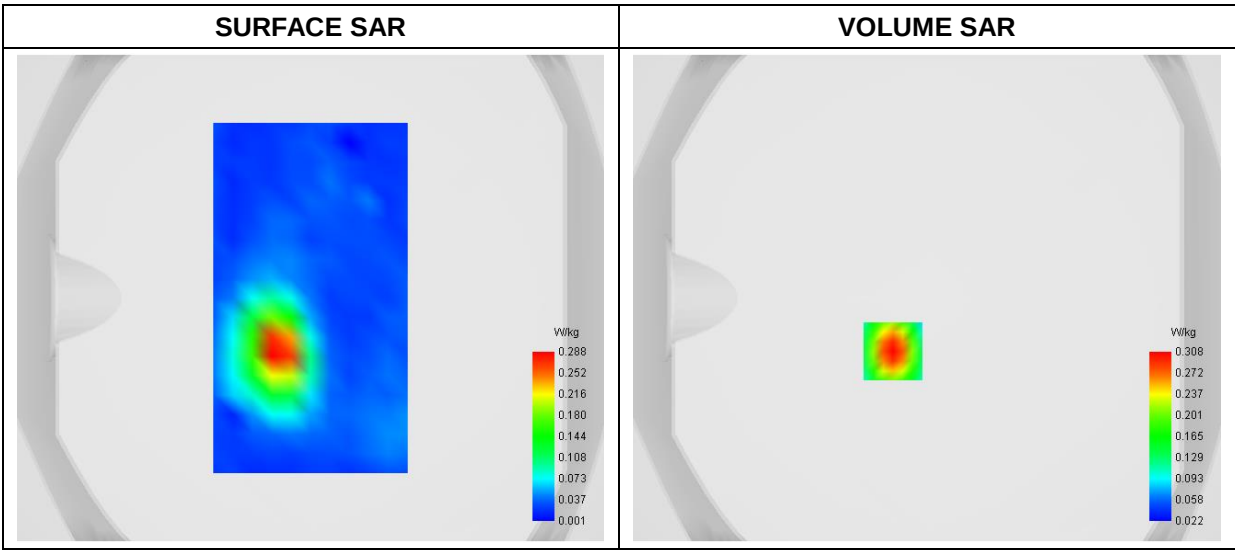
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=4mm dy=4mm dz=2mm
Phantom	Flat Plane
Device Position	Back
Band	WiFi(5.8GHz)_802.11ac (VHT80) –ANT1
Channels	Middle
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	5775.000000
Relative Permittivity (real part)	49.952839
Conductivity (S/m)	5.901254
Power Variation (%)	5.210512
Ambient Temperature	22.3
Liquid Temperature	22.3

C. SAR Surface and Volume

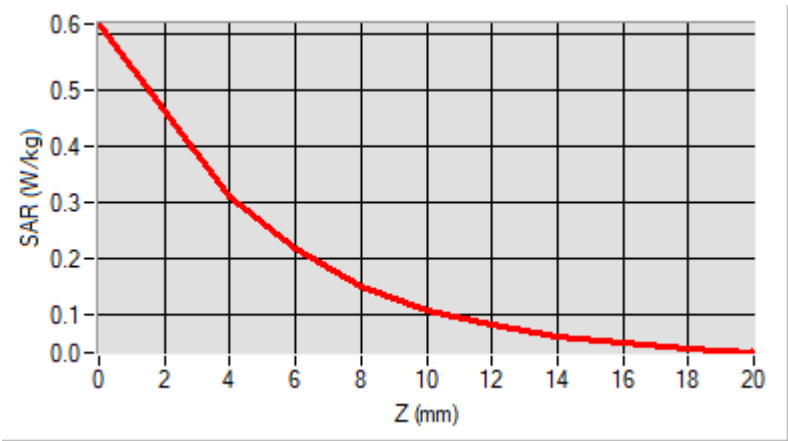


Maximum location: X=-14.00, Y=-22.00
D. SAR 1g & 10g

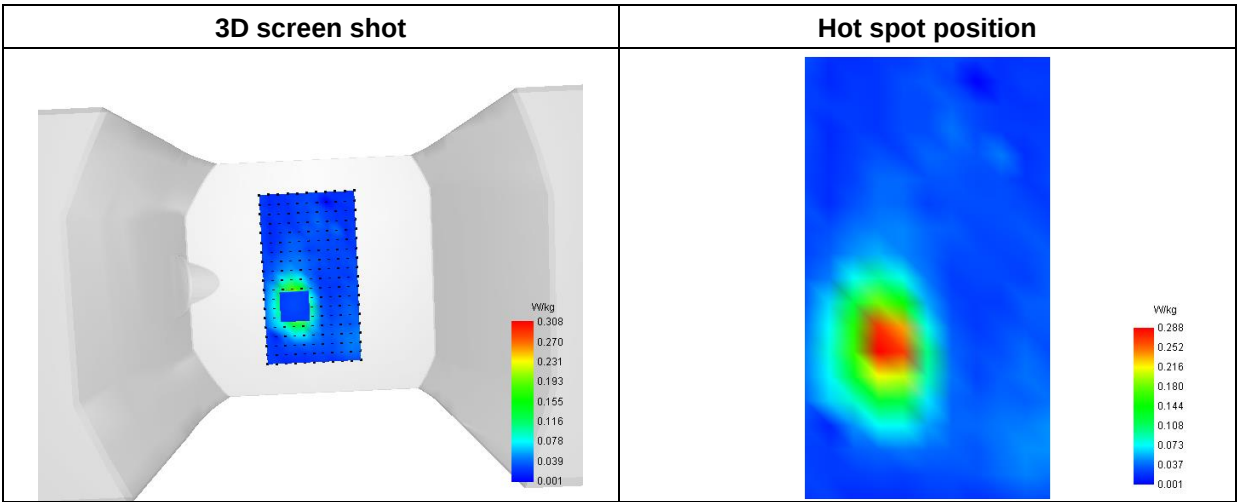
SAR 10g (W/Kg)	0.126569
SAR 1g (W/Kg)	0.223711

E. Z Axis Scan

Z (mm)	0.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00
SAR (W/Kg)	0.6172	0.3081	0.2154	0.1507	0.1078	0.0795	0.0606	0.0477	0.0384



F. 3D Image



MEASUREMENT 34

Type: Phone measurement (Complete)
Date of measurement: 2023-03-23
Measurement duration: 12 minutes 3 seconds

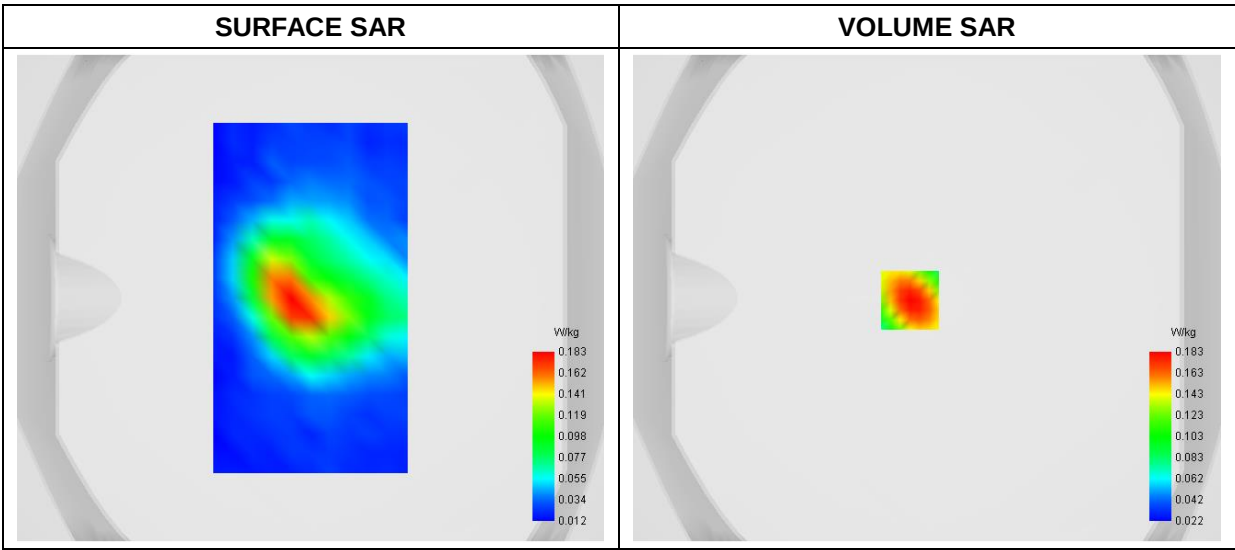
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=4mm dy=4mm dz=2mm
Phantom	Flat Plane
Device Position	Back
Band	WiFi_802.11b-ANT2
Channels	Middle
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	2412.000000
Relative Permittivity (real part)	53.561212
Conductivity (S/m)	1.931202
Power Variation (%)	0.568374
Ambient Temperature	23.5
Liquid Temperature	23.5

C. SAR Surface and Volume

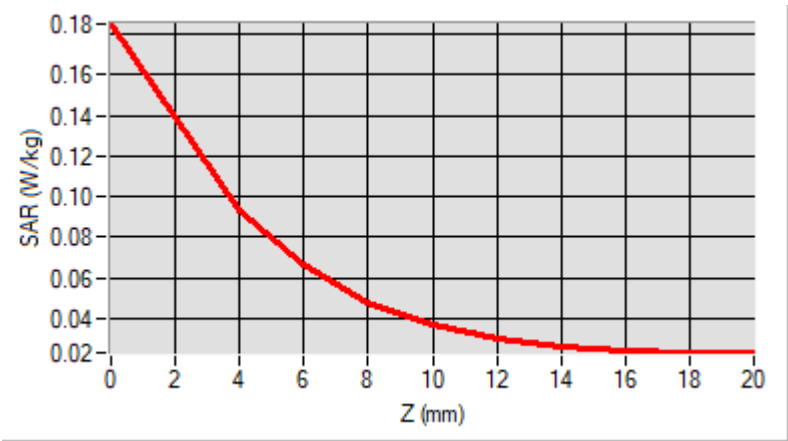


Maximum location: X=-7.00, Y=-1.00
D. SAR 1g & 10g

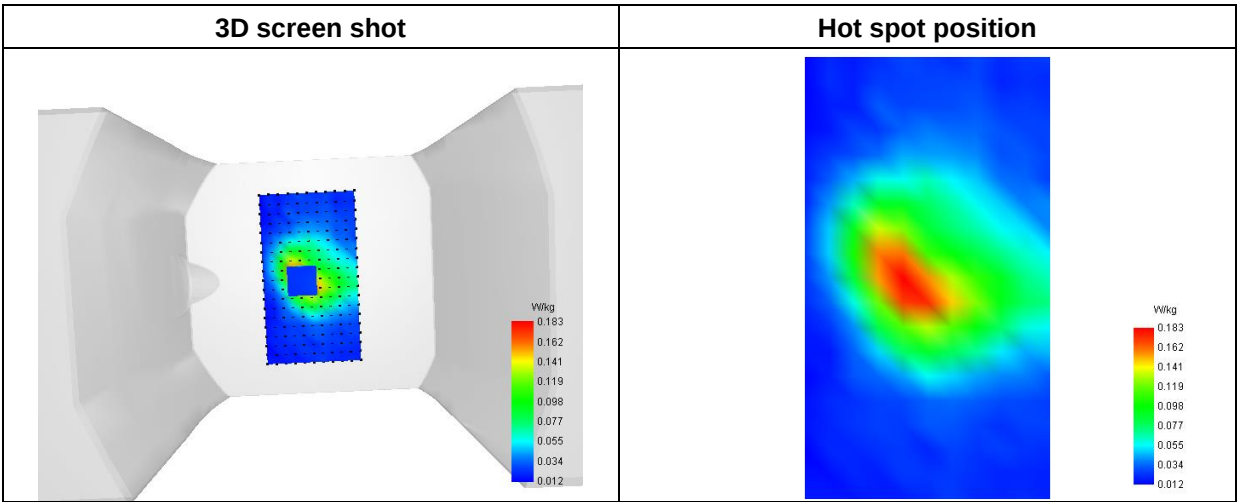
SAR 10g (W/Kg)	0.053856
SAR 1g (W/Kg)	0.091926

E. Z Axis Scan

Z (mm)	0.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00
SAR (W/Kg)	0.1849	0.0930	0.0662	0.0483	0.0370	0.0303	0.0264	0.0244	0.0235



F. 3D Image



MEASUREMENT 35

Type: Phone measurement (Complete)
Date of measurement: 2023-03-28
Measurement duration: 12 minutes 3 seconds

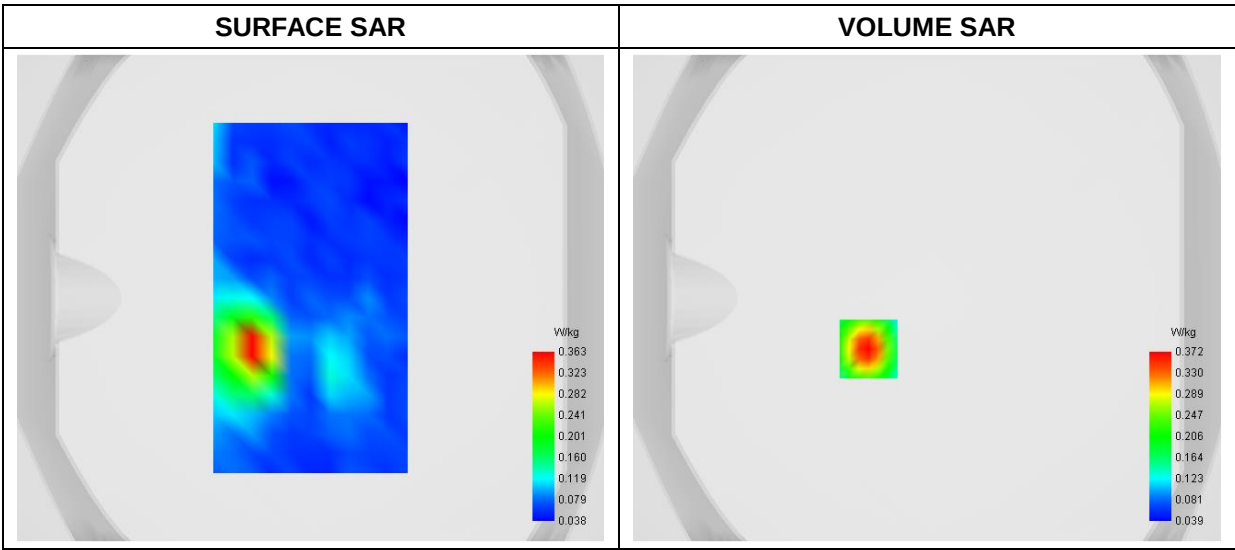
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=4mm dy=4mm dz=2mm
Phantom	Flat Plane
Device Position	Back
Band	WLAN(5.2GHz)_802.11a-ANT2
Channels	High
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	5240.000000
Relative Permittivity (real part)	47.132985
Conductivity (S/m)	5.434267
Power Variation (%)	-1.660000
Ambient Temperature	22.3
Liquid Temperature	22.3

C. SAR Surface and Volume



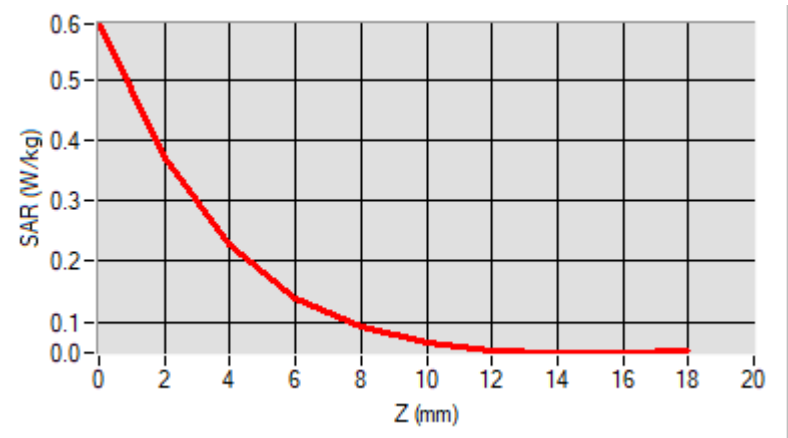
Maximum location: X=-24.00, Y=-21.00

D. SAR 1g & 10g

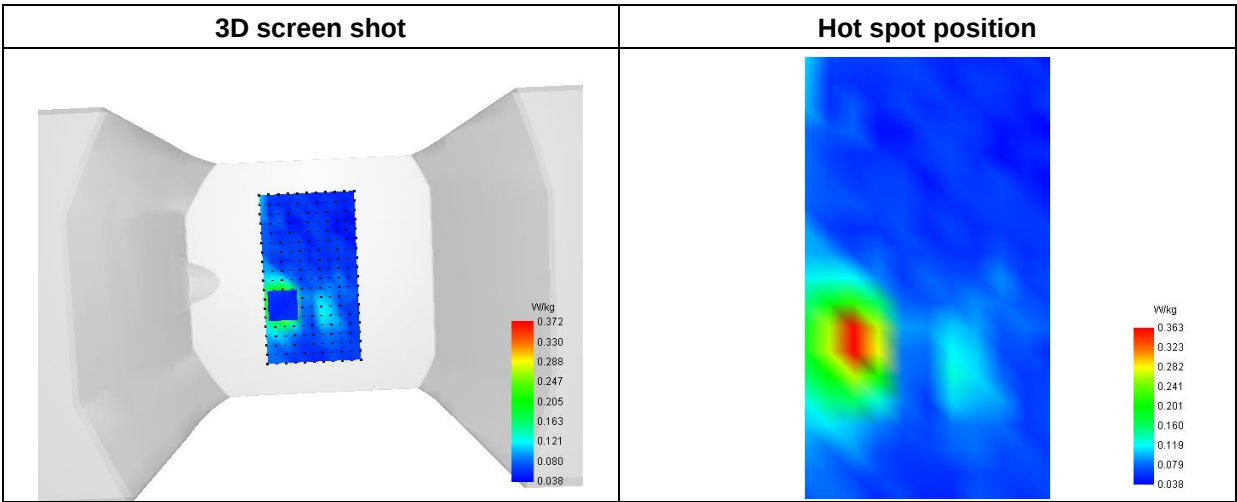
SAR 10g (W/Kg)	0.120463
SAR 1g (W/Kg)	0.263727

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	0.6035	0.3818	0.2374	0.1394	0.0938	0.0662	0.0540	0.0487	0.0491



F. 3D Image



MEASUREMENT 36

Type: Phone measurement (Complete)
Date of measurement: 2023-03-28
Measurement duration: 12 minutes 3 seconds

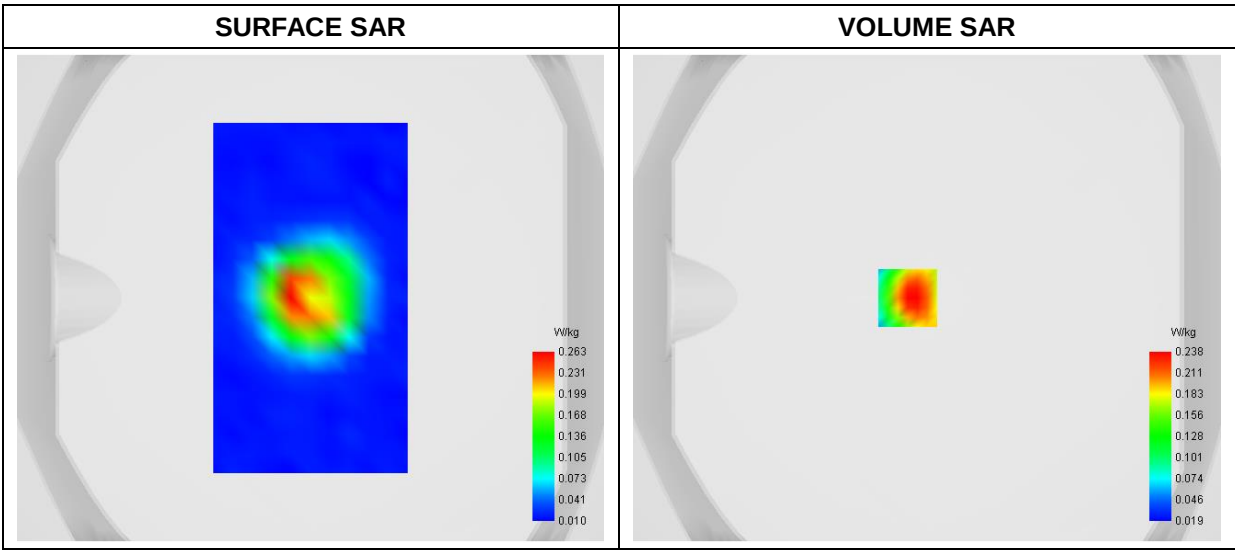
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=4mm dy=4mm dz=2mm
Phantom	Flat Plane
Device Position	Right
Band	WLAN(5.3GHz)_ 802.11n (HT20)-ANT2
Channels	Low
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	5260.000000
Relative Permittivity (real part)	46.523248
Conductivity (S/m)	47.132715
Power Variation (%)	0.950000
Ambient Temperature	22.3
Liquid Temperature	22.3

C. SAR Surface and Volume

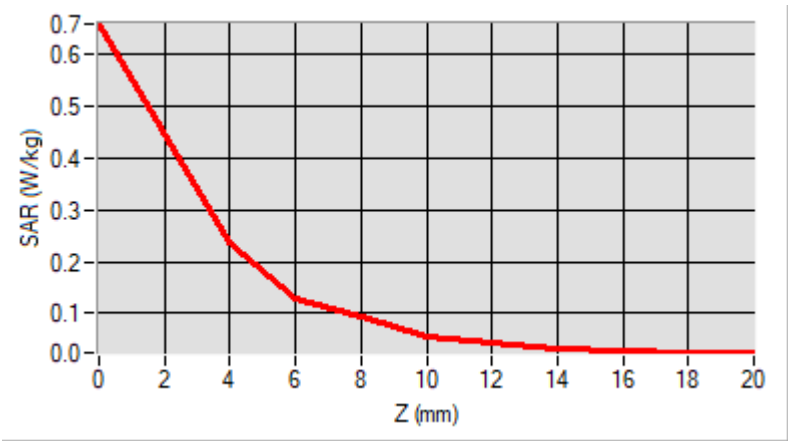


Maximum location: X=-8.00, Y=0.00
D. SAR 1g & 10g

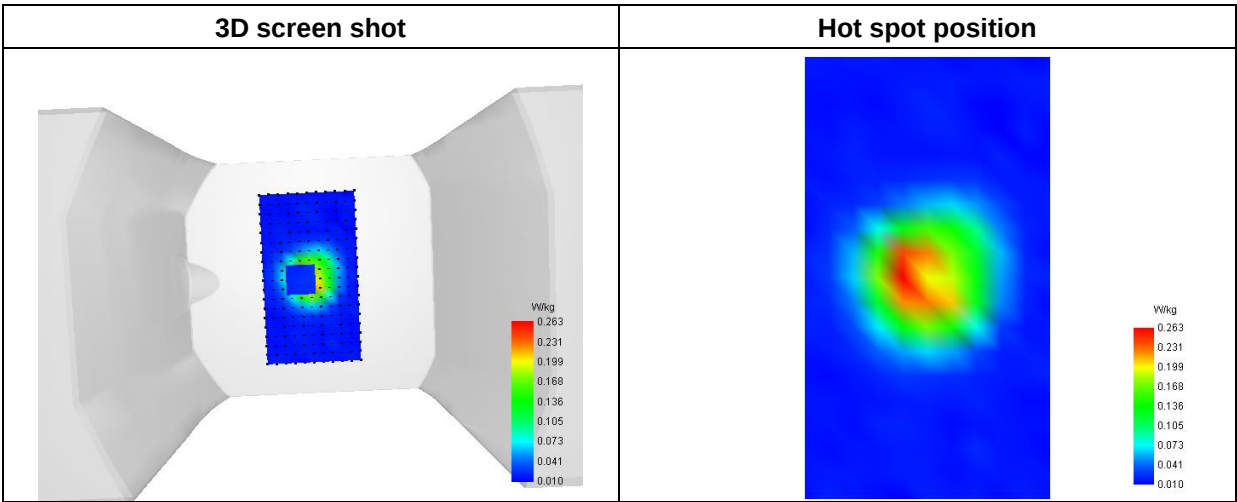
SAR 10g (W/Kg)	0.107149
SAR 1g (W/Kg)	0.236954

E. Z Axis Scan

Z (mm)	0.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00
SAR (W/Kg)	0.6599	0.2383	0.1280	0.0955	0.0538	0.0448	0.0302	0.0295	0.0243



F. 3D Image



MEASUREMENT 37

Type: Phone measurement (Complete)
Date of measurement: 2023-03-28
Measurement duration: 12 minutes 3 seconds

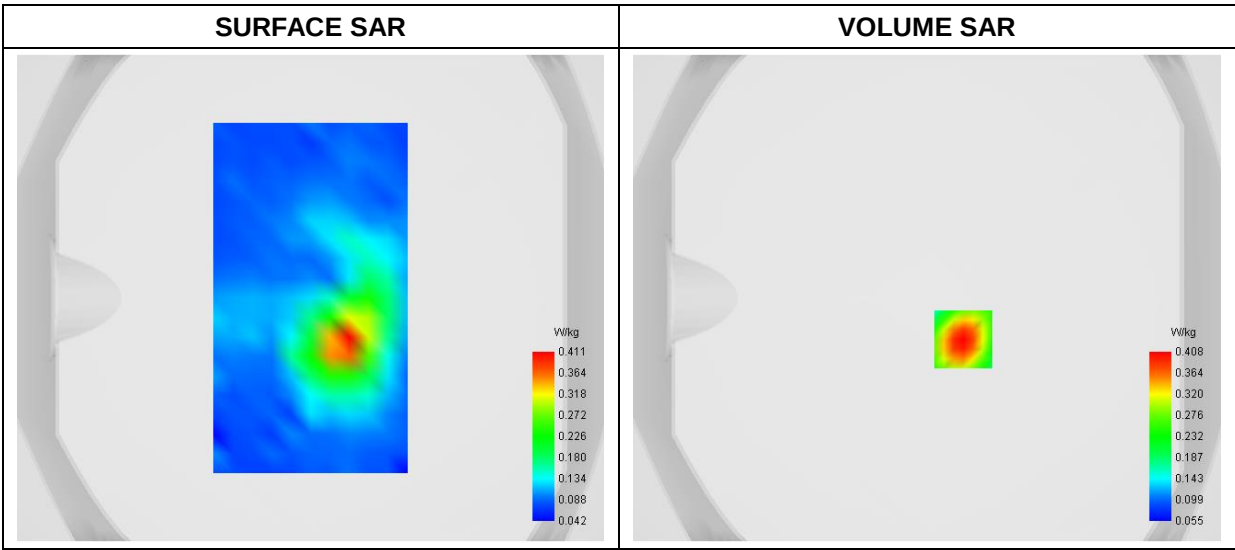
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=4mm dy=4mm dz=2mm
Phantom	Flat Plane
Device Position	Back
Band	WLAN(5.6GHz)_802.11a-ANT2
Channels	Low
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	5500.000000
Relative Permittivity (real part)	47.362911
Conductivity (S/m)	5.714268
Power Variation (%)	-1.660000
Ambient Temperature	22.3
Liquid Temperature	22.3

C. SAR Surface and Volume

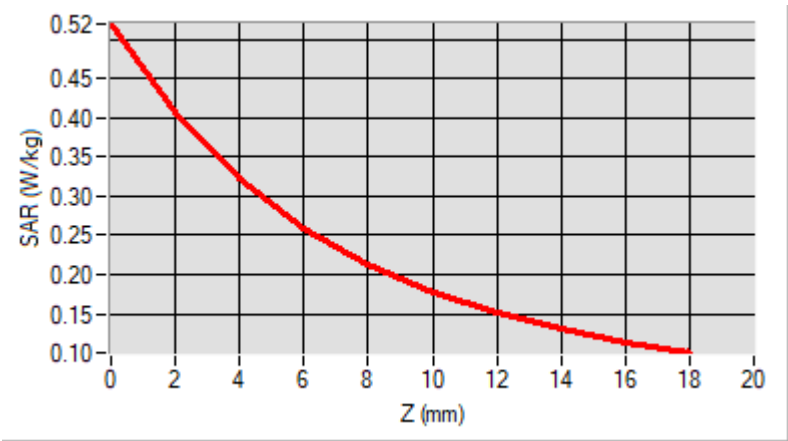


Maximum location: X=15.00, Y=-17.00
D. SAR 1g & 10g

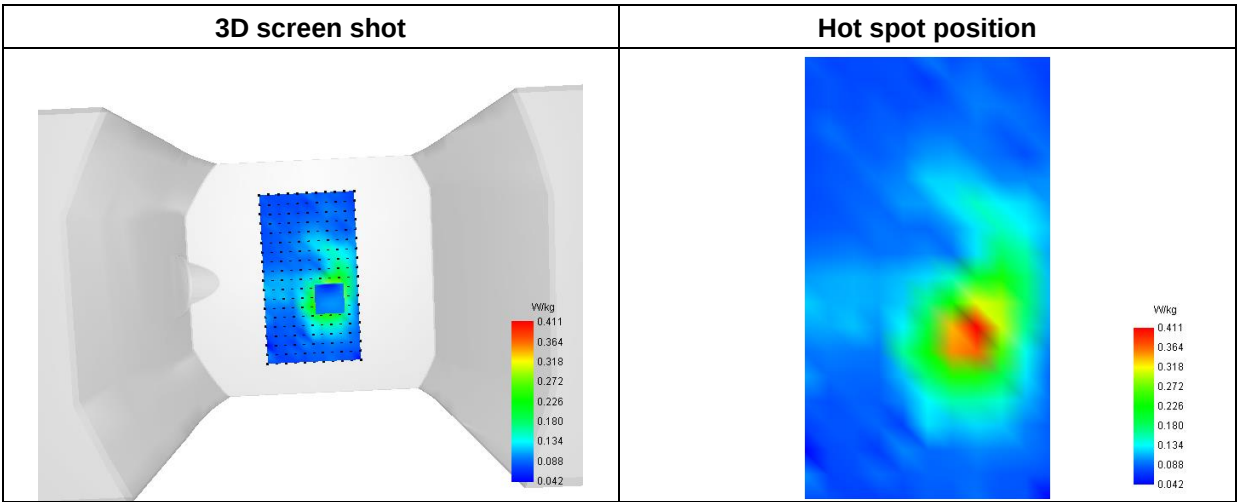
SAR 10g (W/Kg)	0.117041
SAR 1g (W/Kg)	0.203974

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	0.5096	0.3908	0.3137	0.2493	0.2020	0.1671	0.1509	0.1307	0.1144



F. 3D Image



MEASUREMENT 38

Type: Phone measurement (Complete)
Date of measurement: 2023-03-28
Measurement duration: 12 minutes 3 seconds

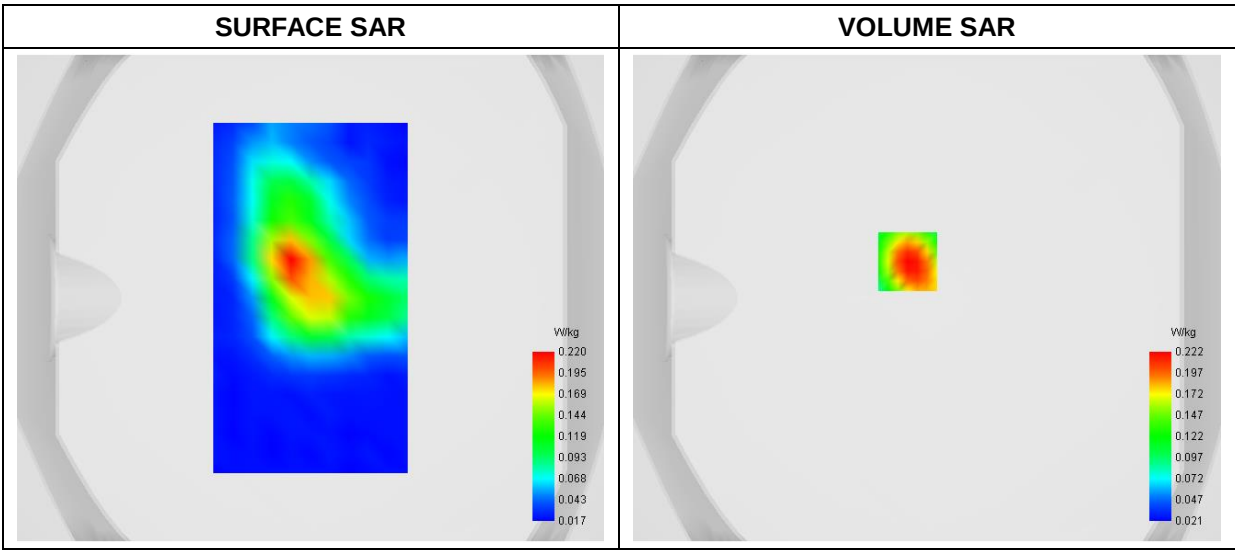
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=4mm dy=4mm dz=2mm
Phantom	Flat Plane
Device Position	Back
Band	SRD(5.8GHz)_802.11a-ANT2
Channels	Middle
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	5785.000000
Relative Permittivity (real part)	49.933247
Conductivity (S/m)	5.901156
Power Variation (%)	0.950000
Ambient Temperature	22.3
Liquid Temperature	22.3

C. SAR Surface and Volume

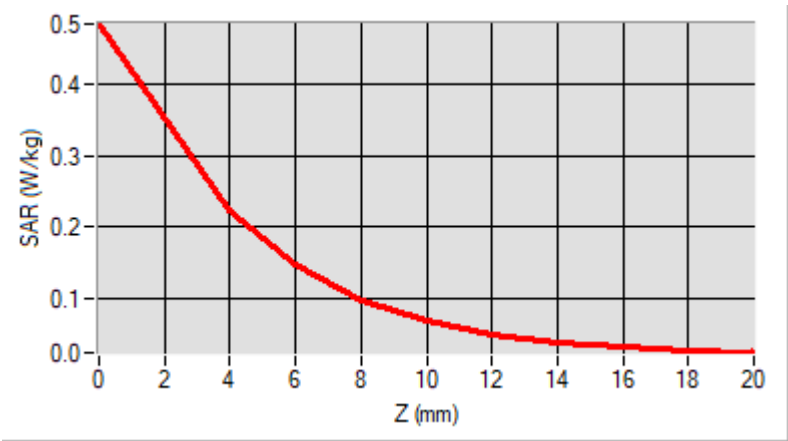


Maximum location: X=-8.00, Y=15.00
D. SAR 1g & 10g

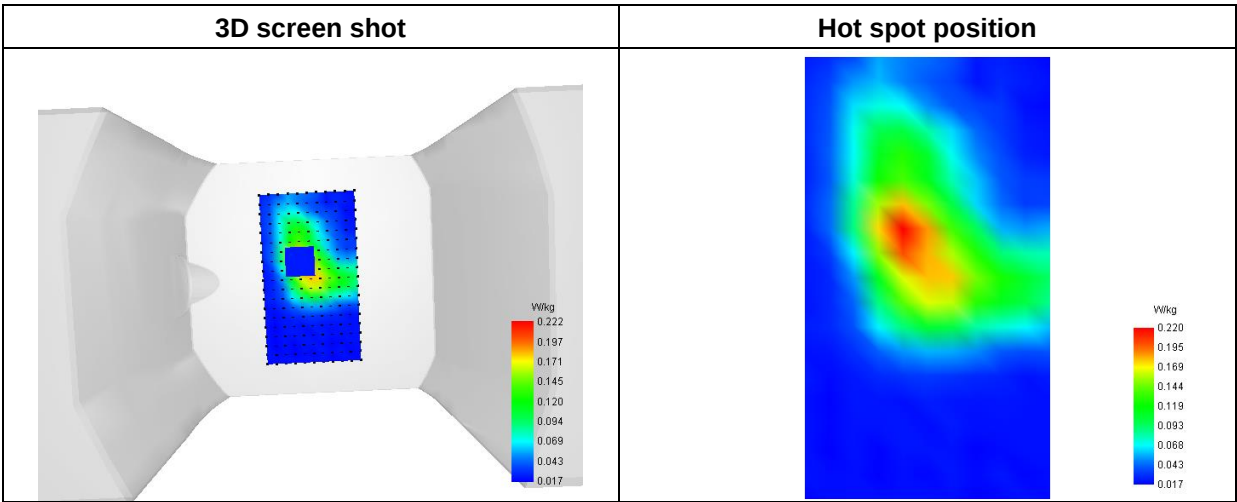
SAR 10g (W/Kg)	0.103717
SAR 1g (W/Kg)	0.215270

E. Z Axis Scan

Z (mm)	0.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00
SAR (W/Kg)	0.4841	0.2223	0.1478	0.0986	0.0681	0.0495	0.0382	0.0315	0.0273



F. 3D Image



MEASUREMENT 39

Type: Phone measurement (Complete)
Date of measurement: 2023-03-23
Measurement duration: 12 minutes 3 seconds

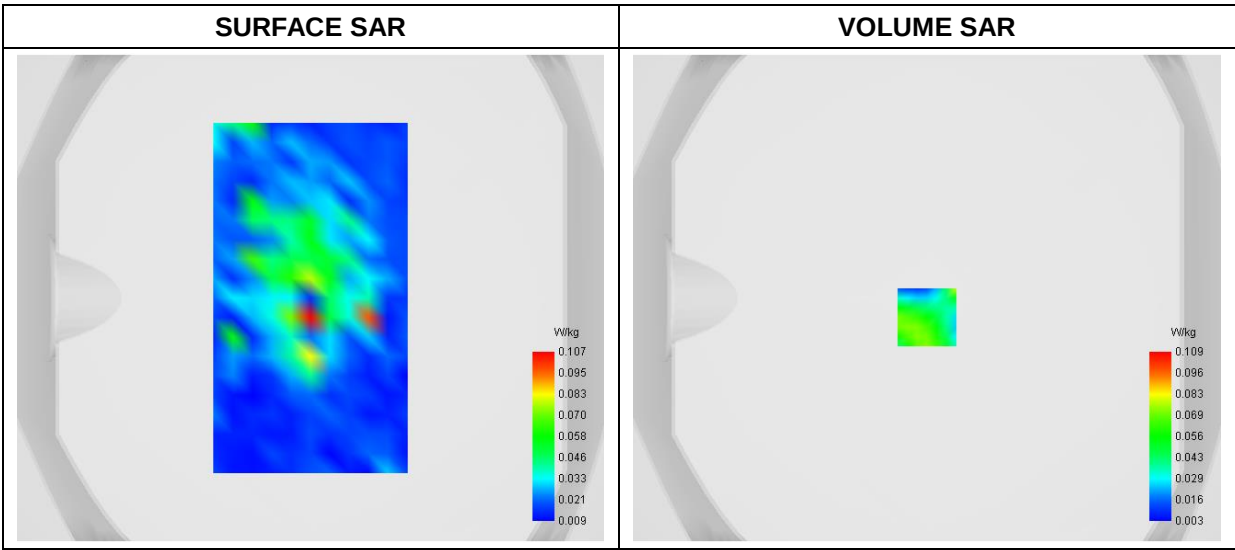
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=4mm dy=4mm dz=2mm
Phantom	Flat Plane
Device Position	Back
Band	Bluetooth_ GFSK
Channels	Middle
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	2441.000000
Relative Permittivity (real part)	53.580463
Conductivity (S/m)	1.932727
Power Variation (%)	1.140000
Ambient Temperature	23.5
Liquid Temperature	23.5

C. SAR Surface and Volume

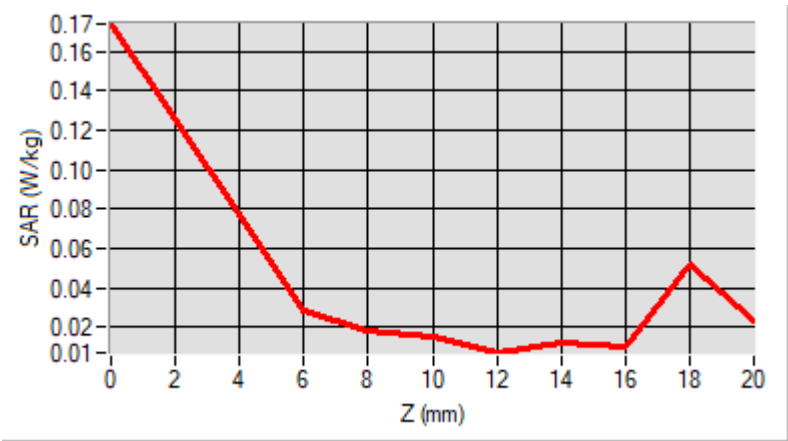


Maximum location: X=0.00, Y=-8.00
D. SAR 1g & 10g

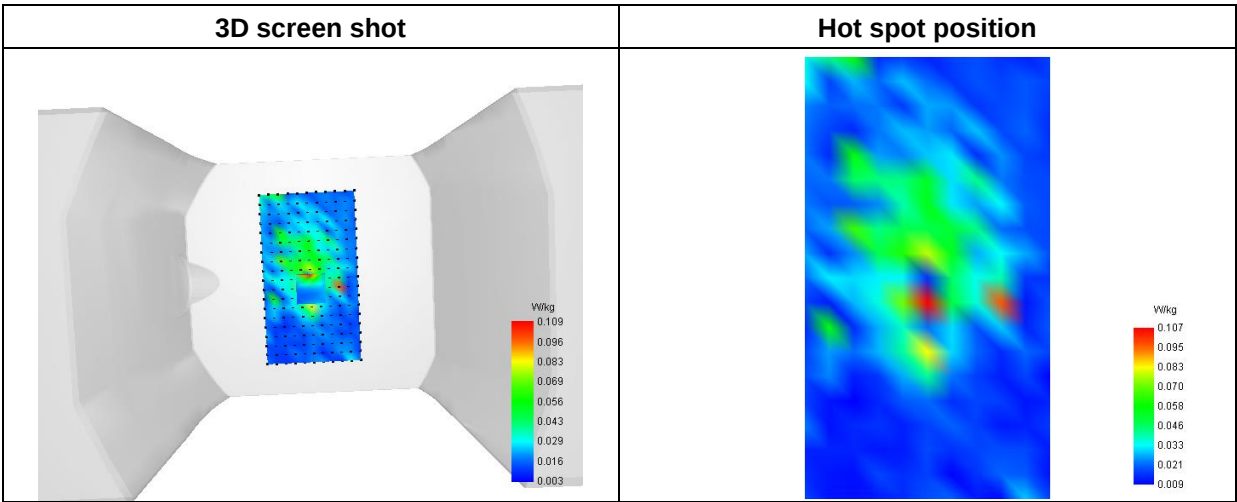
SAR 10g (W/Kg)	0.043565
SAR 1g (W/Kg)	0.059867

E. Z Axis Scan

Z (mm)	0.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00
SAR (W/Kg)	0.1737	0.0772	0.0289	0.0181	0.0156	0.0073	0.0122	0.0106	0.0517



F. 3D Image



MEASUREMENT 40

Type: Phone measurement (Complete)
Date of measurement: 2023-03-23
Measurement duration: 12 minutes 3 seconds

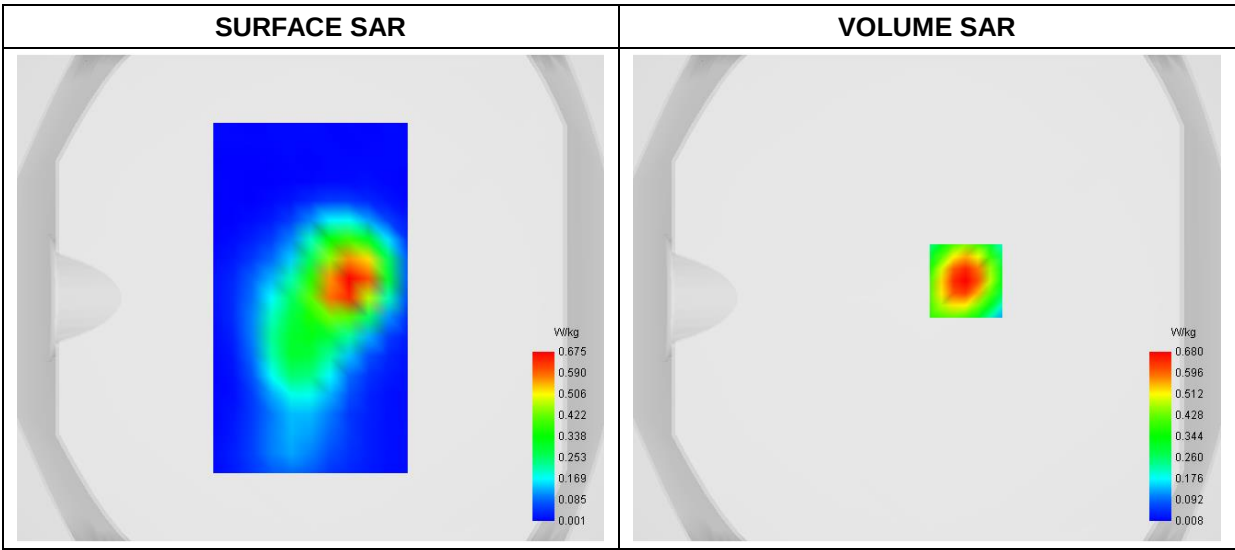
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=4mm dy=4mm dz=2mm
Phantom	Flat Plane
Device Position	Back
Band	LTE Band 41CA
Channels	QPSK, 20MHz, 1RB, Middle
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	2592.01-2593.99
Relative Permittivity (real part)	53.262575
Conductivity (S/m)	2.091879
Power Variation (%)	2.051800
Ambient Temperature	23.5
Liquid Temperature	23.5

C. SAR Surface and Volume



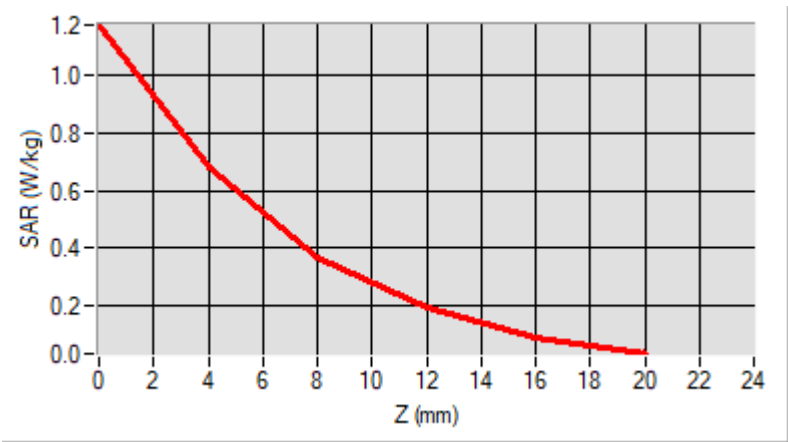
Maximum location: X=16.00, Y=7.00

D. SAR 1g & 10g

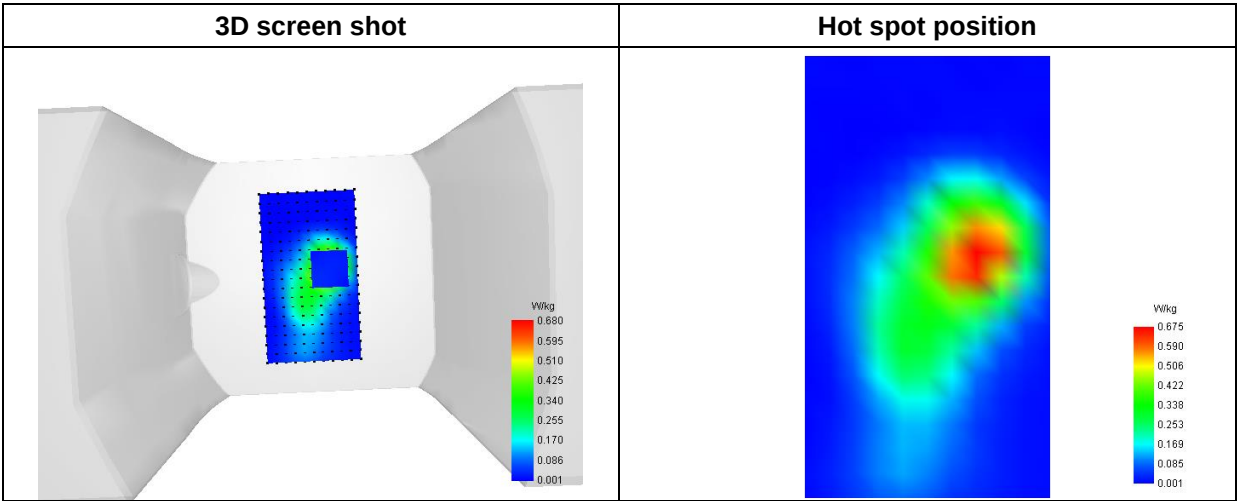
SAR 10g (W/Kg)	0.300089
SAR 1g (W/Kg)	0.629489

E. Z Axis Scan

Z (mm)	0.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00
SAR (W/Kg)	1.1774	0.6803	0.5239	0.3707	0.2891	0.1897	0.1524	0.0891	0.0421



F. 3D Image



MEASUREMENT 41

Type: Phone measurement (Complete)
Date of measurement: 2023-03-28
Measurement duration: 12 minutes 3 seconds

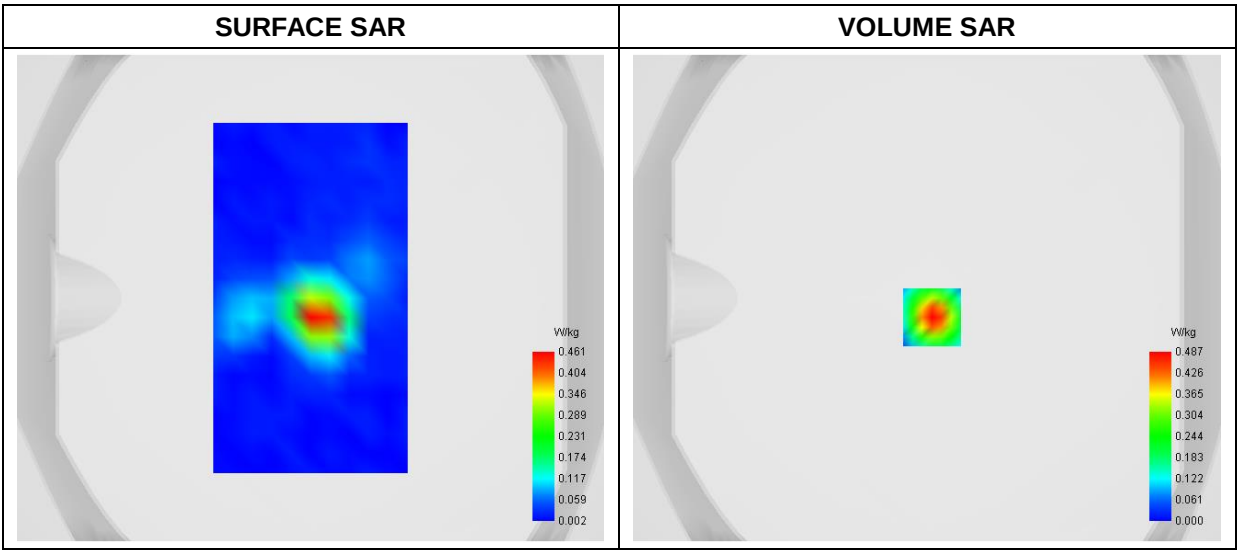
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=4mm dy=4mm dz=2mm
Phantom	Flat Plane
Device Position	Back
Band	WLAN 5.2GHz _802.11a-ANT1
Channels	High
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	5240.000000
Relative Permittivity (real part)	47.133115
Conductivity (S/m)	5.431286
Power Variation (%)	1.932800
Ambient Temperature	22.3
Liquid Temperature	22.3

C. SAR Surface and Volume



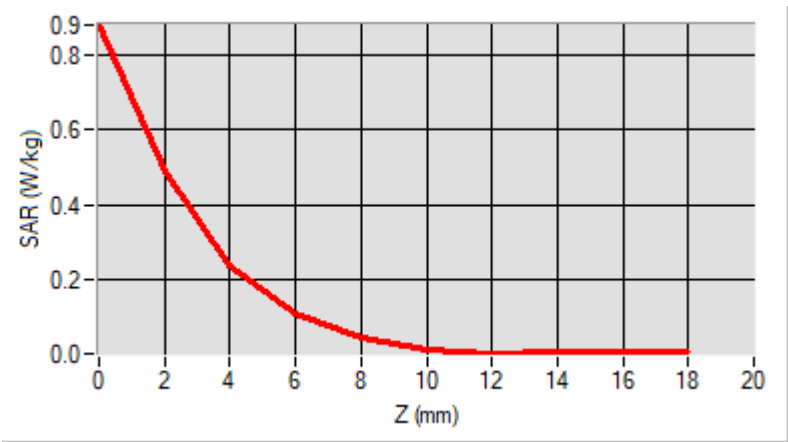
Maximum location: X=2.00, Y=-8.00

D. SAR 1g & 10g

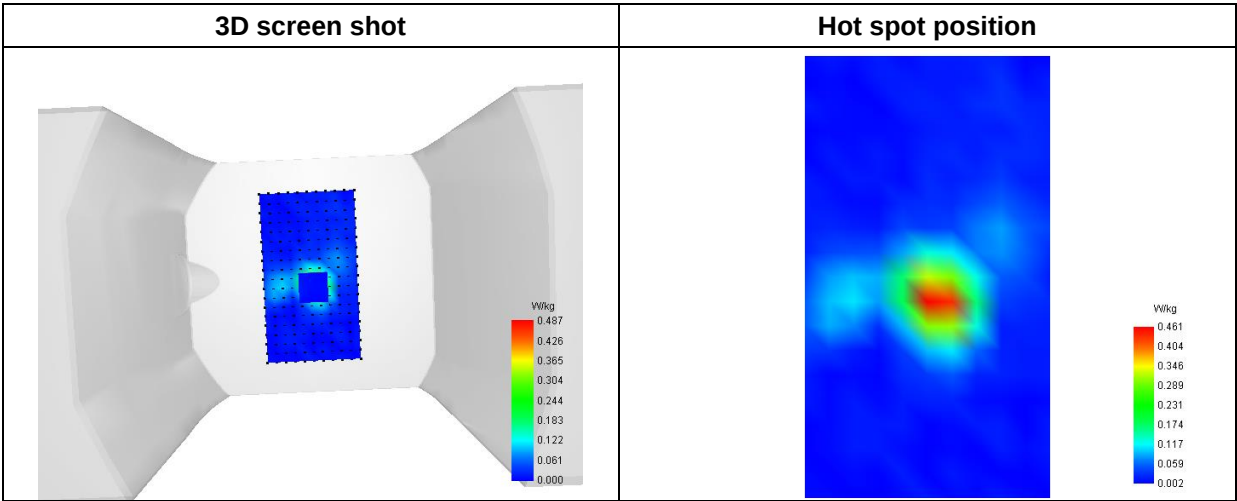
SAR 10g (W/Kg)	0.073824
SAR 1g (W/Kg)	0.256611

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	0.8800	0.4871	0.2394	0.1065	0.0448	0.0107	0.0017	0.0063	0.0061



F. 3D Image



MEASUREMENT 42

Type: Phone measurement (Complete)
Date of measurement: 2023-03-28
Measurement duration: 12 minutes 3 seconds

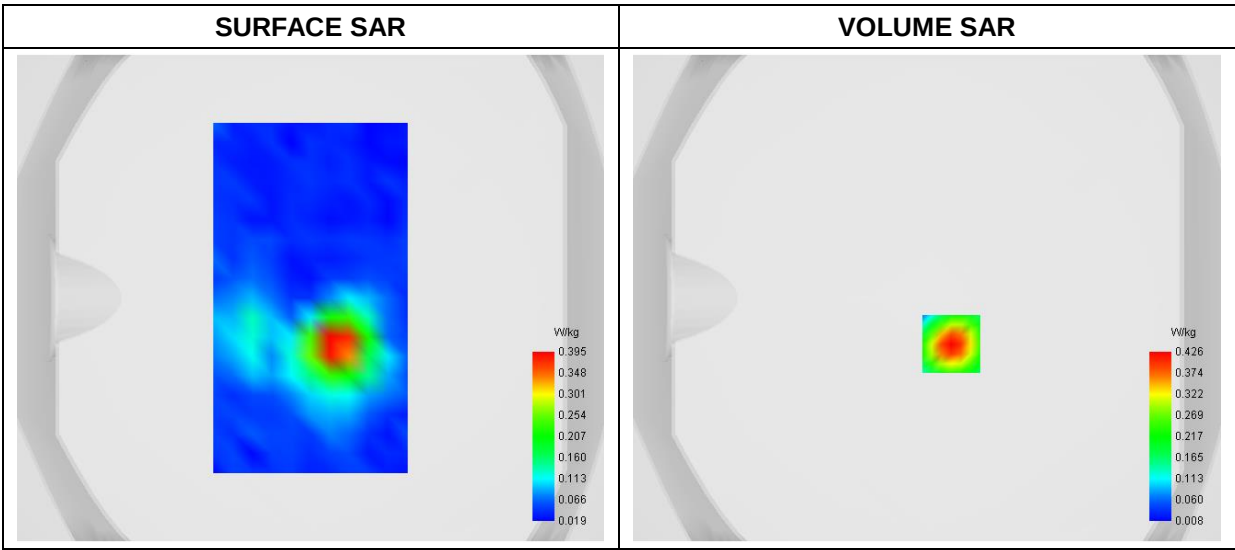
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=4mm dy=4mm dz=2mm
Phantom	Flat Plane
Device Position	Back
Band	WLAN 5.2GHz _802.11a-ANT2
Channels	High
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	5240.000000
Relative Permittivity (real part)	47.133115
Conductivity (S/m)	5.431286
Power Variation (%)	-1.655800
Ambient Temperature	22.3
Liquid Temperature	22.3

C. SAR Surface and Volume



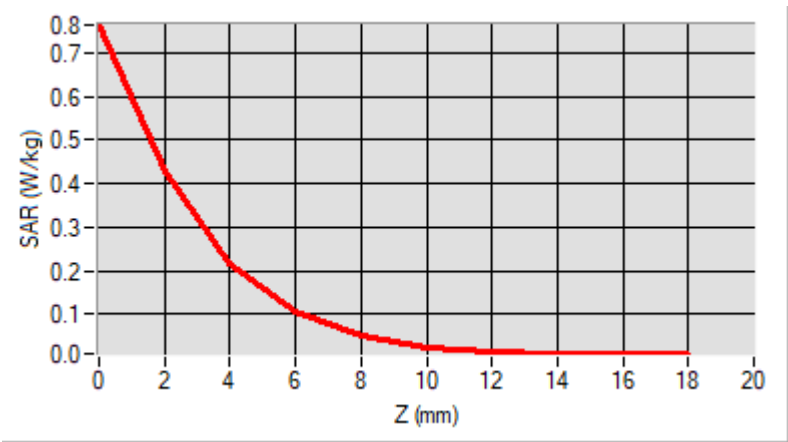
Maximum location: X=10.00, Y=-19.00

D. SAR 1g & 10g

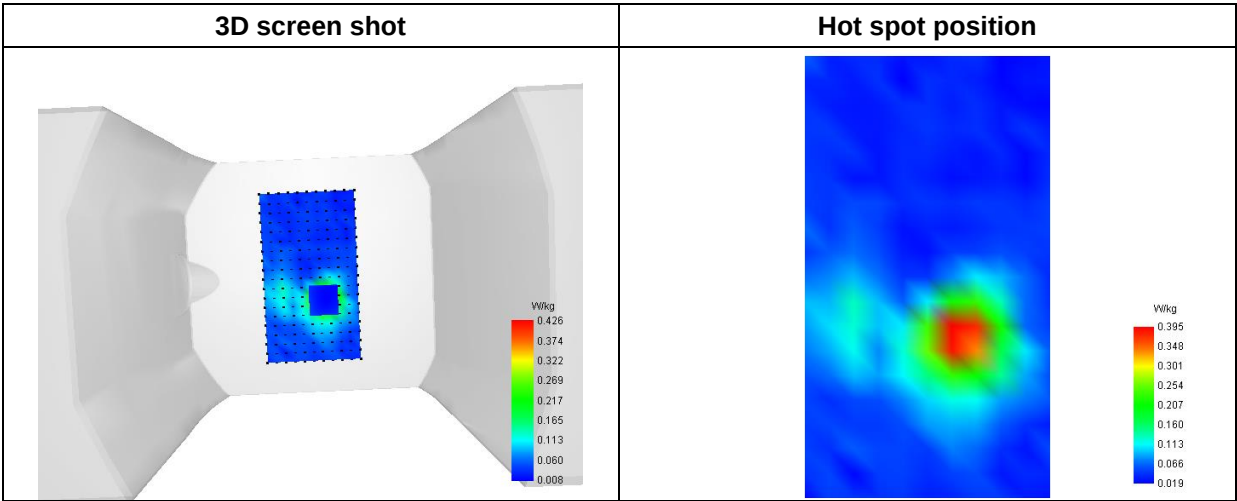
SAR 10g (W/Kg)	0.084185
SAR 1g (W/Kg)	0.245875

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	0.7637	0.4262	0.2183	0.1037	0.0483	0.0234	0.0132	0.0096	0.0091



F. 3D Image



MEASUREMENT 43

Type: Phone measurement (Complete)
Date of measurement: 2023-03-23
Measurement duration: 12 minutes 3 seconds

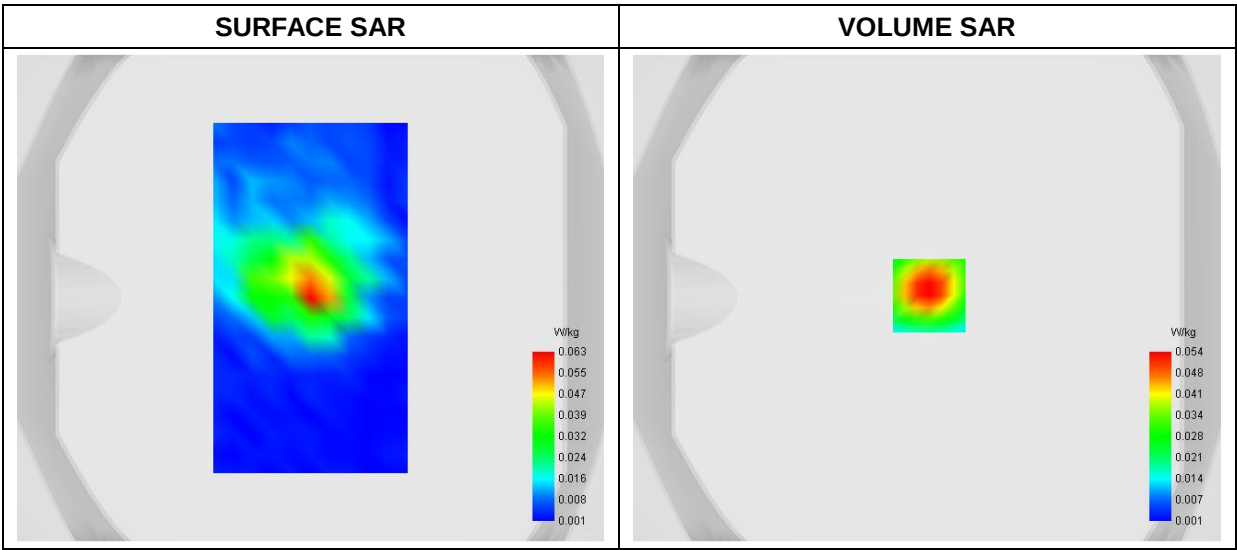
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=4mm dy=4mm dz=2mm
Phantom	Flat Plane
Device Position	Back
Band	Bluetooth
Channels	Low
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	2402.000000
Relative Permittivity (real part)	53.561415
Conductivity (S/m)	1.931826
Power Variation (%)	3.131400
Ambient Temperature	23.5
Liquid Temperature	23.5

C. SAR Surface and Volume



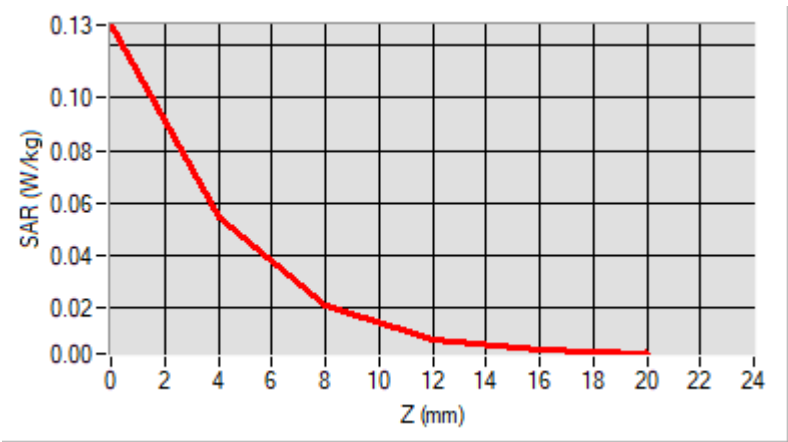
Maximum location: X=1.00, Y=1.00

D. SAR 1g & 10g

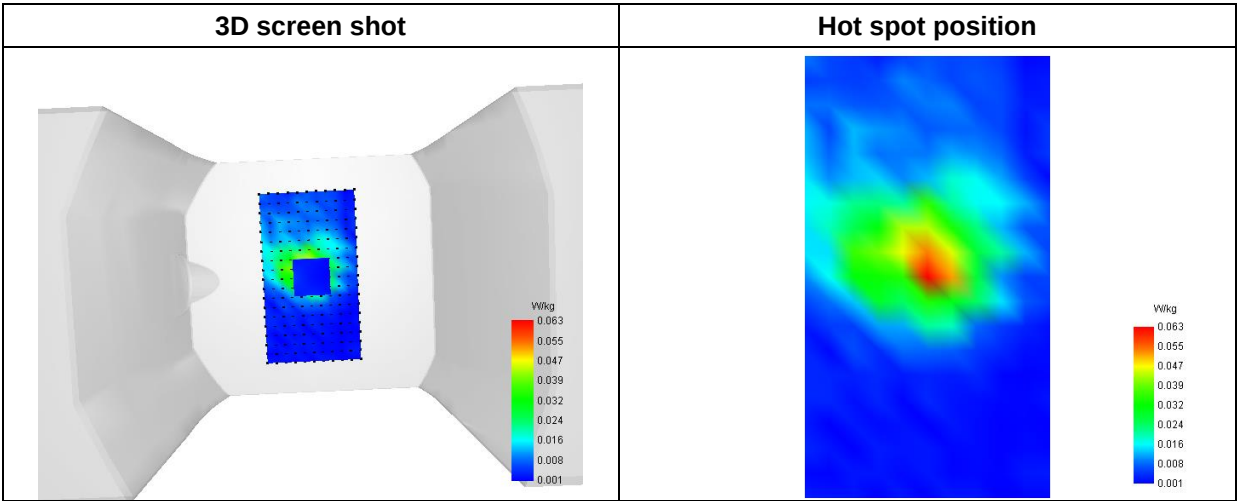
SAR 10g (W/Kg)	0.024701
SAR 1g (W/Kg)	0.057798

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.1281	0.0543	0.0201	0.0072	0.0033

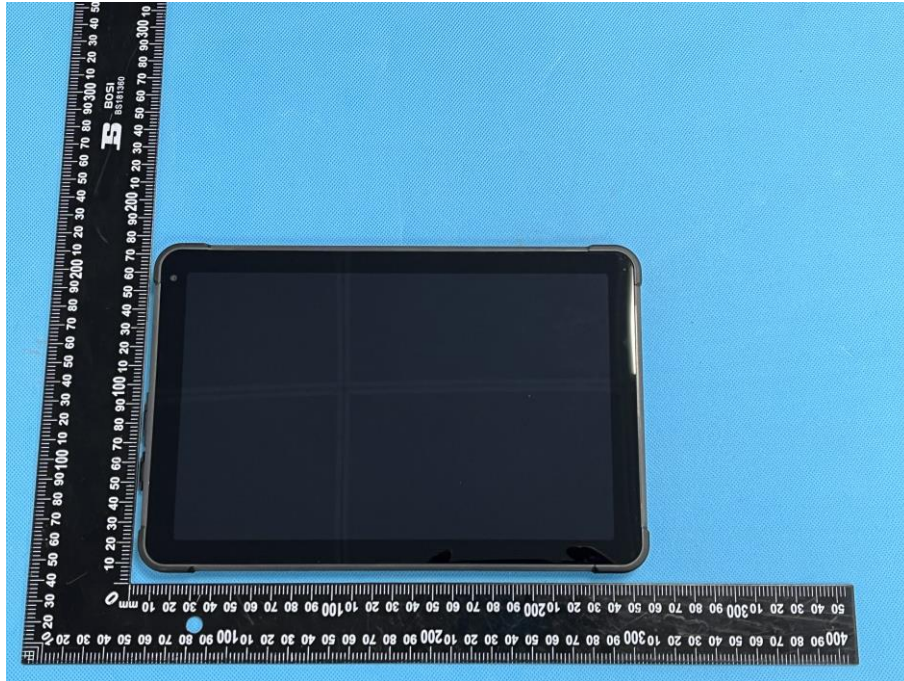


F. 3D Image



Annex C. EUT Photos

standard edition EUT View 1



EUT View 2



EUT View 3



scanning code edition

EUT View 4



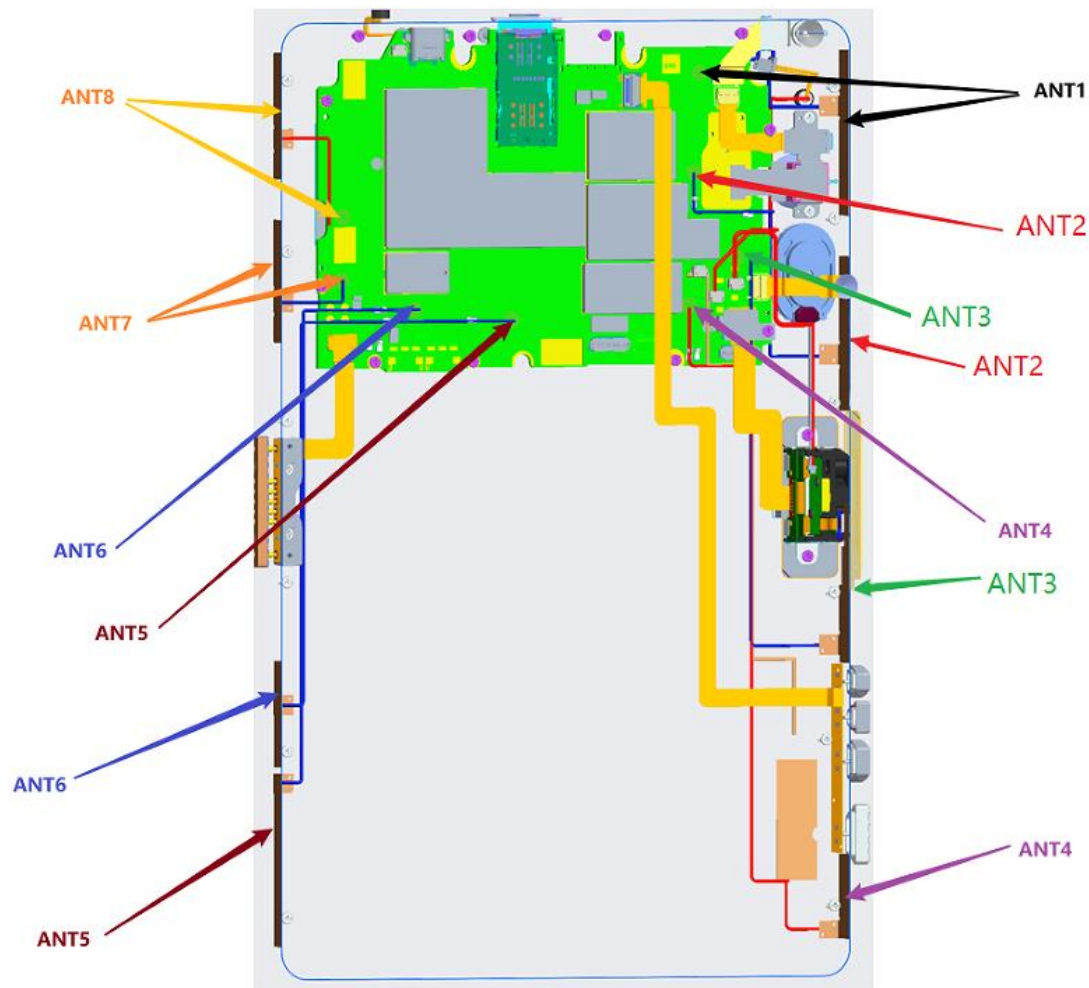
EUT View 5



EUT View 6



Antenna View

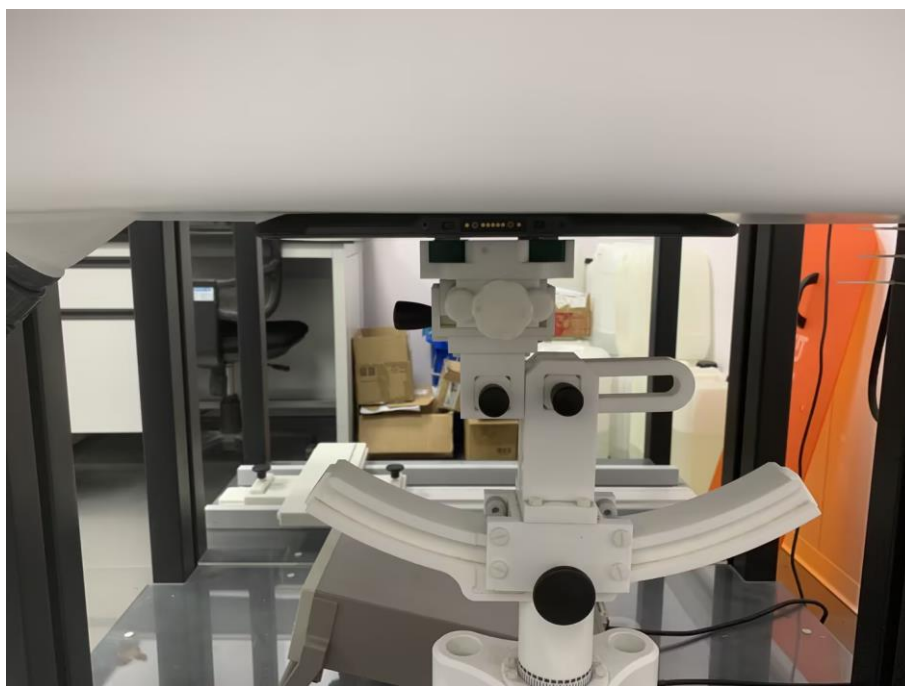


Annex D. Test Setup Photos

Body mode Exposure Conditions

Test distance: 0mm

Body Back



Body Right



Body Left



Body Top



Body Bottom



Annex E. Calibration Certificate

Please refer to the exhibit for the calibration certificate

***** END OF REPORT *****