

Appendix B: SAR Measurement results Plots

Plot	Frequency/Mode	Testing Position and Channel	Test Date
1	GSM850	Right Tilt 15 °Middle	2020/06/16
2	GSM850/GPRS4Tx	Body Back, Middle ,10mm	2020/06/16
3	GSM1900	Right Tilt 15 °Middle	2020/06/18
4	GSM1900/GPRS4Tx	Body Back, Middle ,10mm	2020/06/18
5	WCDMA1900	Right Cheek Middle	2020/06/18
6	WCDMA1900	Body Back, Middle ,10mm	2020/06/18
7	WCDMA850	Right Cheek Middle	2020/06/16
8	WCDMA850	Body Back, Middle ,10mm	2020/06/16
9	WIFI 2.4G 802.11b	Left Cheek Middle	2020/06/20
10	WIFI 2.4G 802.11b	Body Back, Middle ,10mm	2020/06/20

Plot 1: GSM850, Right Tilt 15 °, Middle

Type: Phone measurement

Date of measurement: 06/16/2020

Measurement duration: 22 minutes 06 seconds

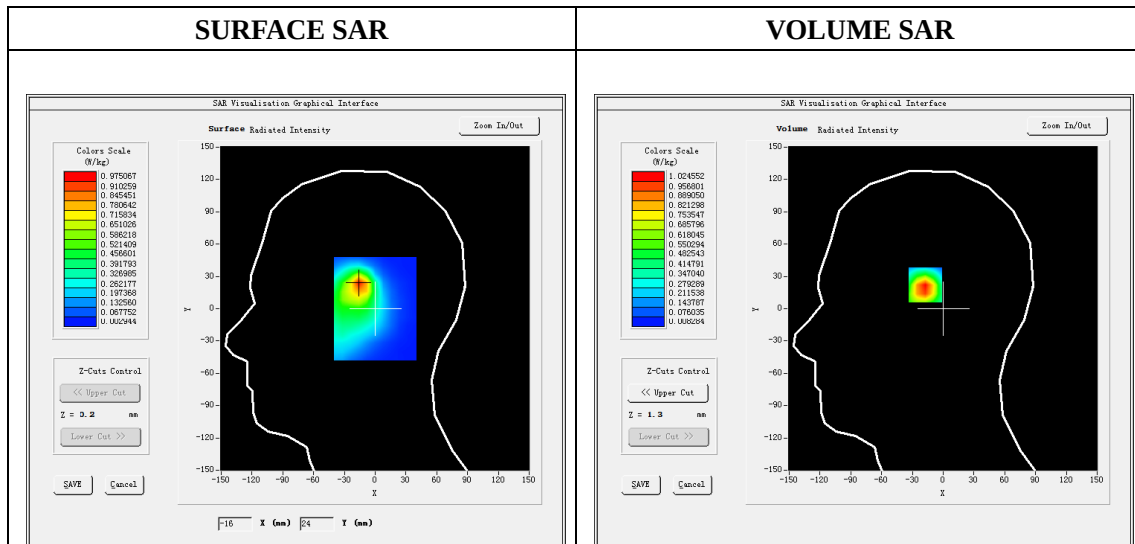
Mobile Phone IMEI number: --

A. Experimental conditions.

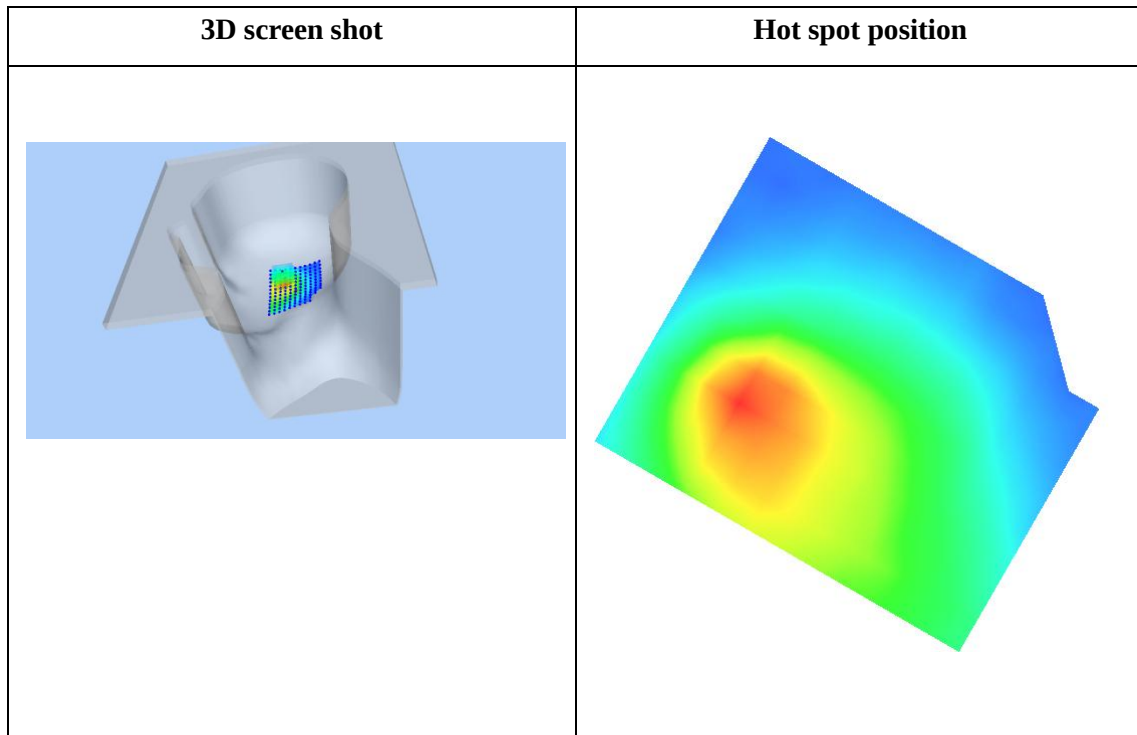
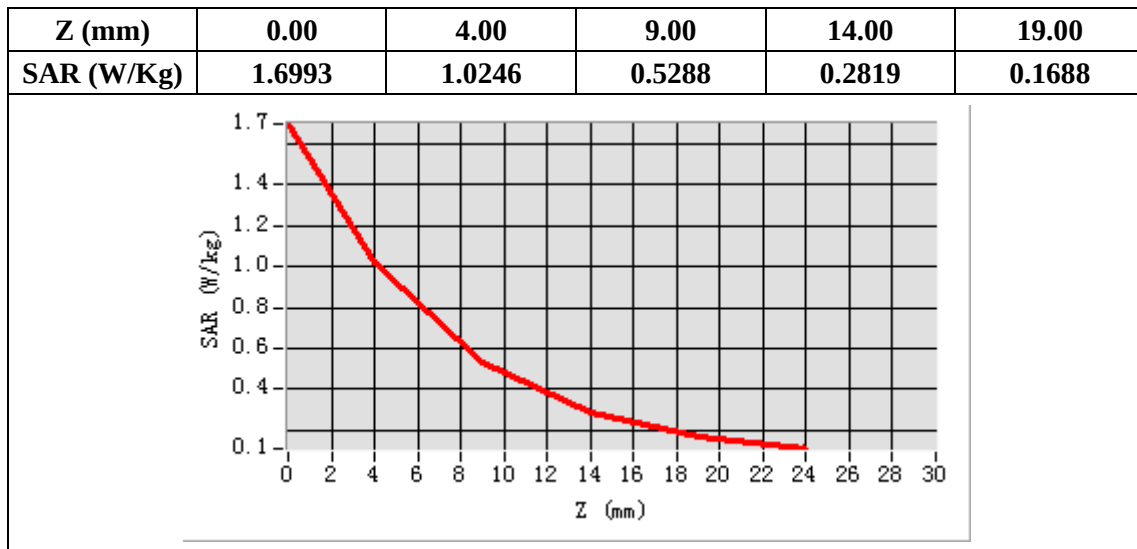
Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Right Tilt 15 °
Band	GSM850
Channels	190
Signal	GSM (Duty cycle: 1:8.3)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_41/18_EPG0330
Frequency (MHz)	836.6
Relative permittivity (real part)	41.52
Relative permittivity (imaginary part)	19.27
Conductivity (S/m)	0.91
Variation (%)	0.17
ConvF:	1.60



SAR 10g (W/Kg)	0.481768
SAR 1g (W/Kg)	0.970750



Plot 2: GPRS850, Back, Middle,10mm

Type: Phone measurement

Date of measurement: 06/16/2020

Measurement duration: 22 minutes 03 seconds

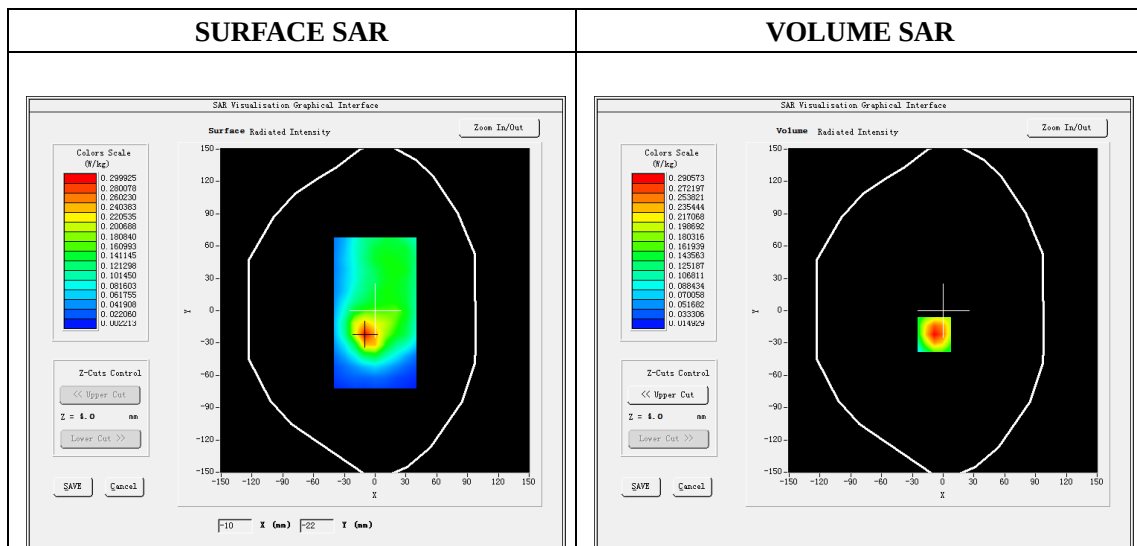
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back
Band	GSPRS850_4Tx
Channels	190
Signal	GPRS(Duty cycle: 1:2)

B. SAR Measurement Results

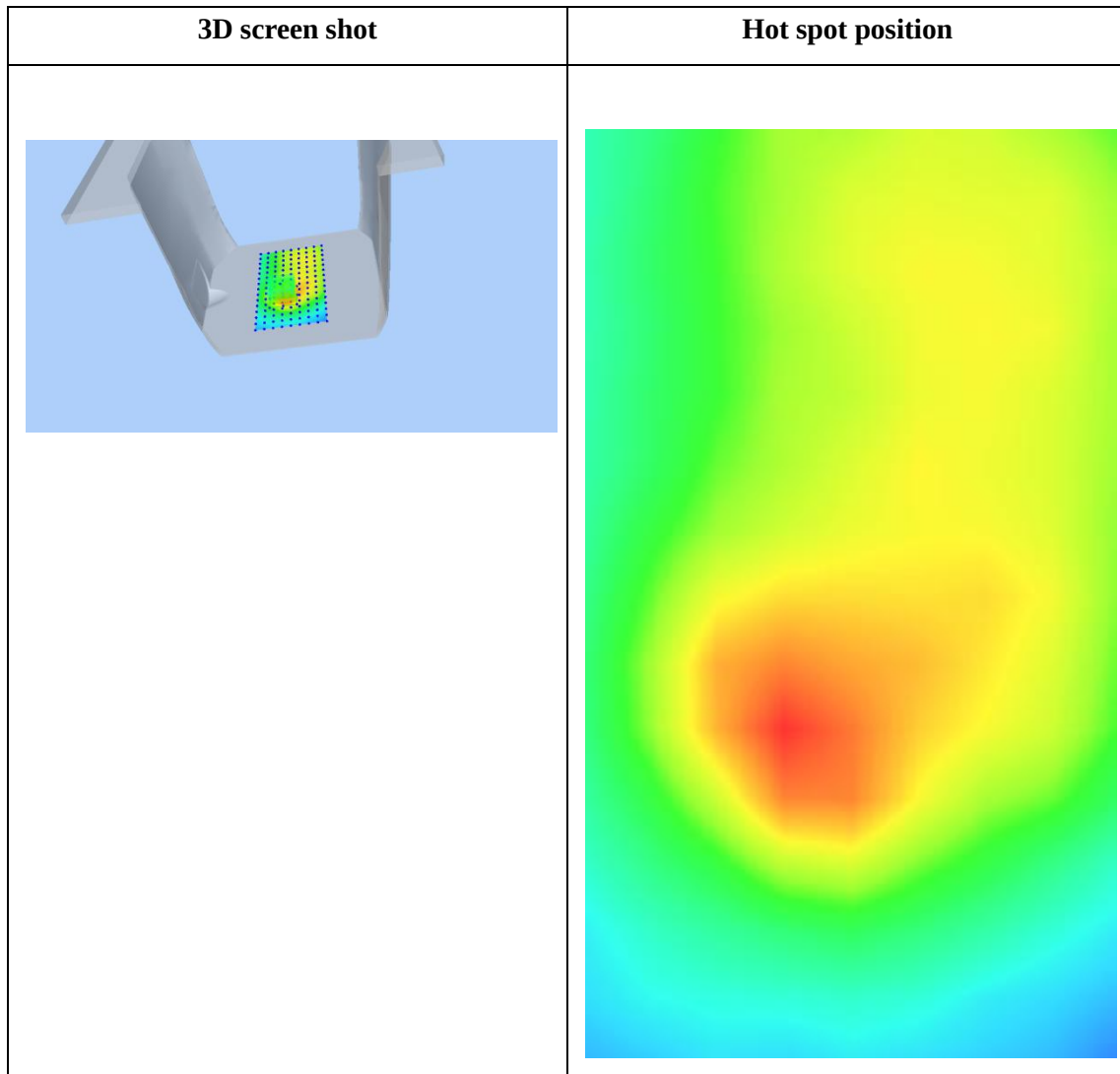
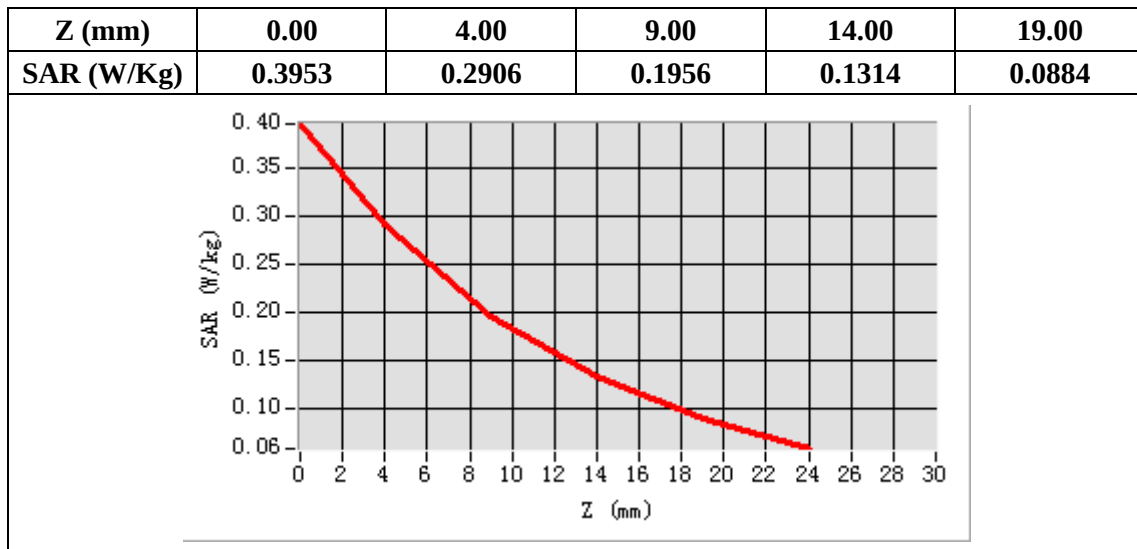
E-Field Probe	SATIMO SN_41/18_EPG0330
Frequency (MHz)	836.6
Relative permittivity (real part)	55.23
Relative permittivity (imaginary part)	21.34
Conductivity (S/m)	0.99
Variation (%)	-4.15
ConvF:	1.64



Maximum location: X=-9.00, Y=-22.00

SAR Peak: 0.40 W/kg

SAR 10g (W/Kg)	0.166588
SAR 1g (W/Kg)	0.273401



Plot 3: GSM1900, Right Tilt 15 °, Middle

Type: Phone measurement

Date of measurement: 06/18/2020

Measurement duration: 22 minutes 05 seconds

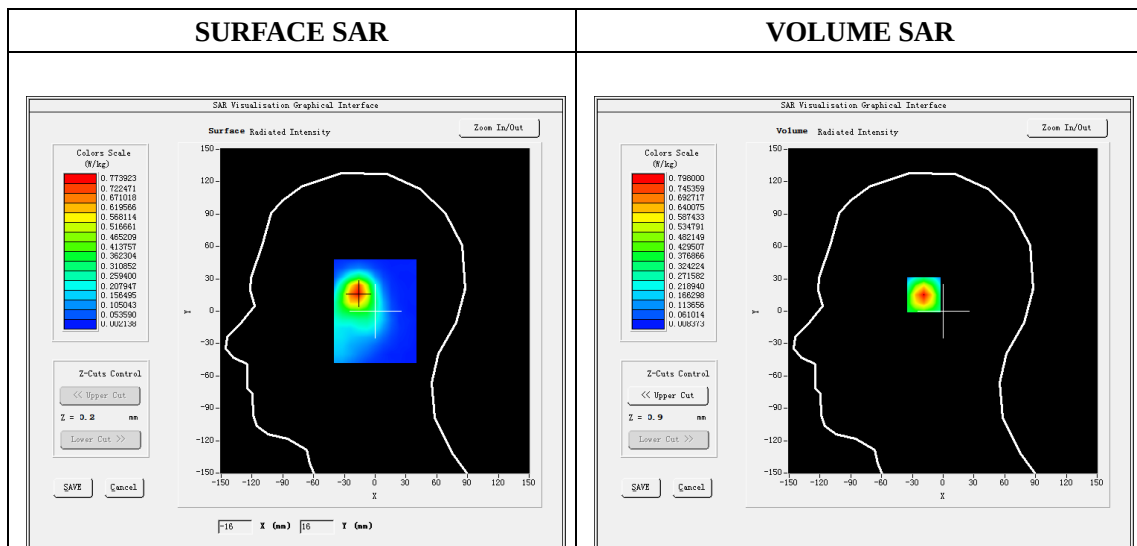
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Right Tilt 15 °
Band	GSM1900
Channels	661
Signal	GSM (Duty cycle: 1:8.3)

B. SAR Measurement Results

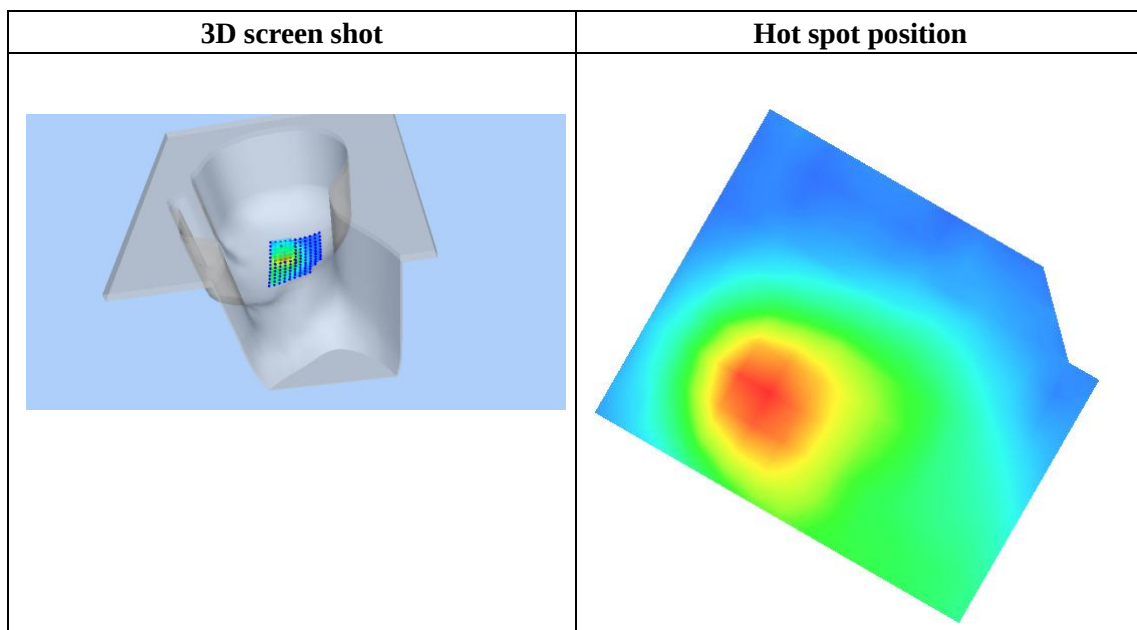
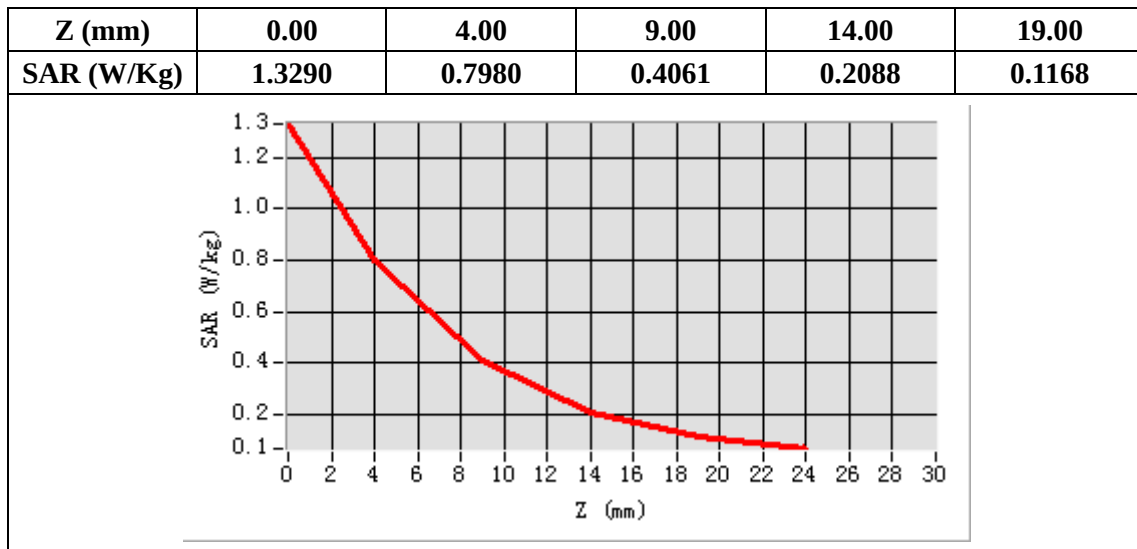
E-Field Probe	SATIMO SN_41/18_EPG0330
Frequency (MHz)	1880
Relative permittivity (real part)	40.47
Relative permittivity (imaginary part)	13.00
Conductivity (S/m)	1.37
Variation (%)	-0.54
ConvF:	2.03



Maximum location: X=-17.00, Y=17.00

SAR Peak: 1.33 W/kg

SAR 10g (W/Kg)	0.358128
SAR 1g (W/Kg)	0.735219



Plot 4: GPRS1900, Back, Middle ,10mm

Type: Phone measurement

Date of measurement: 06/18/2020

Measurement duration: 22 minutes 02 seconds

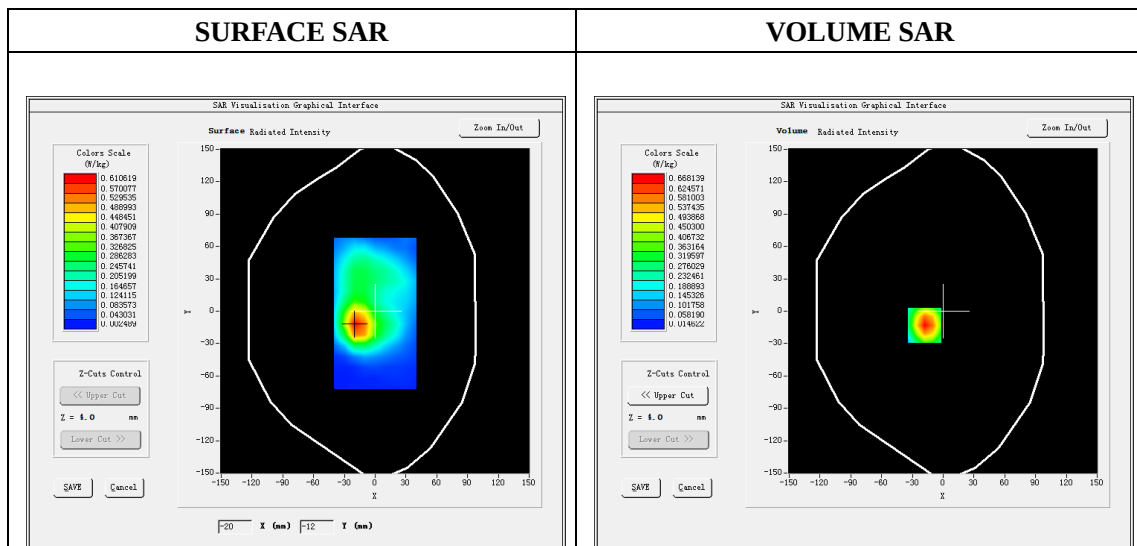
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back
Band	GPRS1900_4Tx
Channels	661
Signal	GPRS(Duty cycle: 1:2)

B. SAR Measurement Results

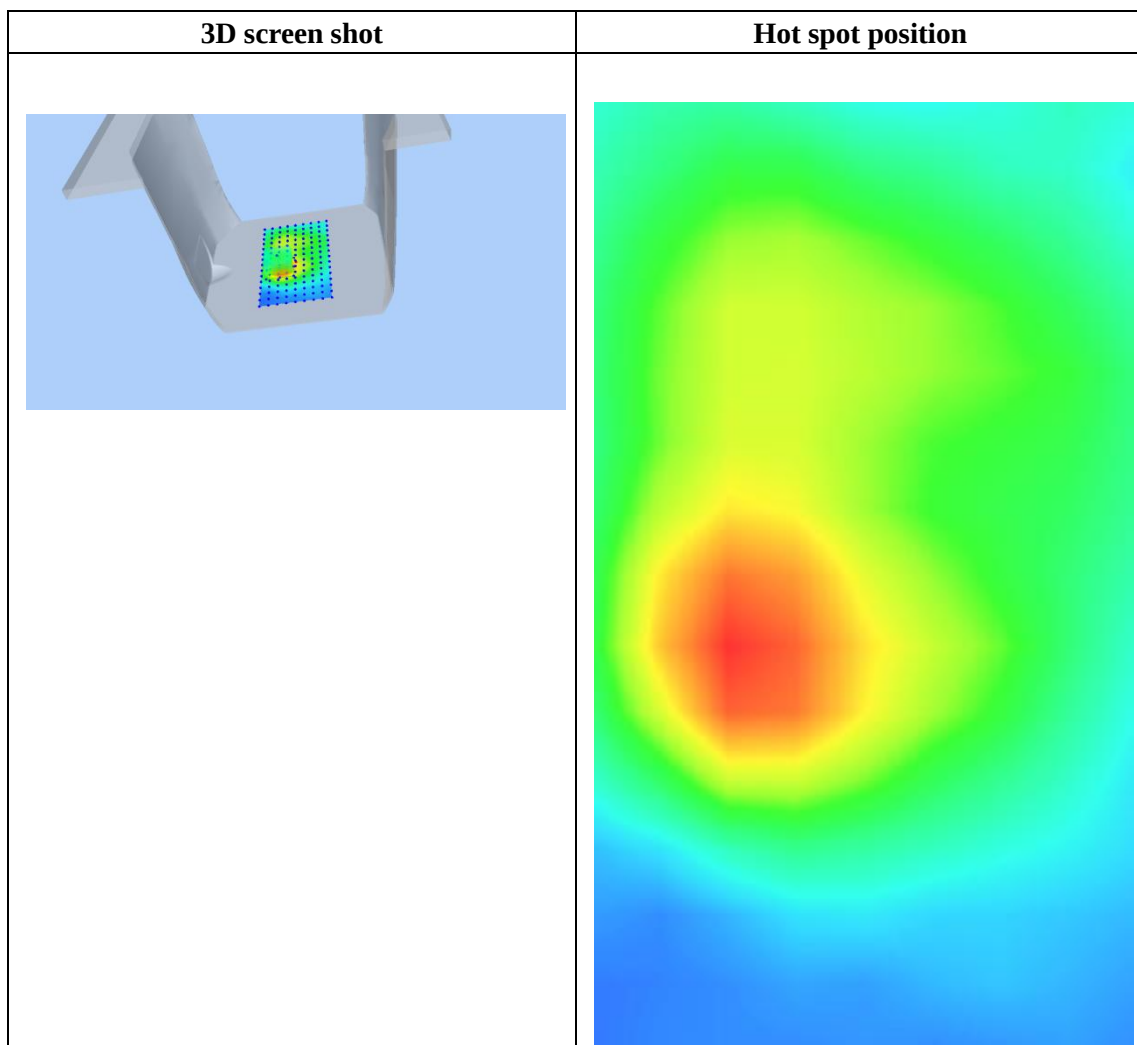
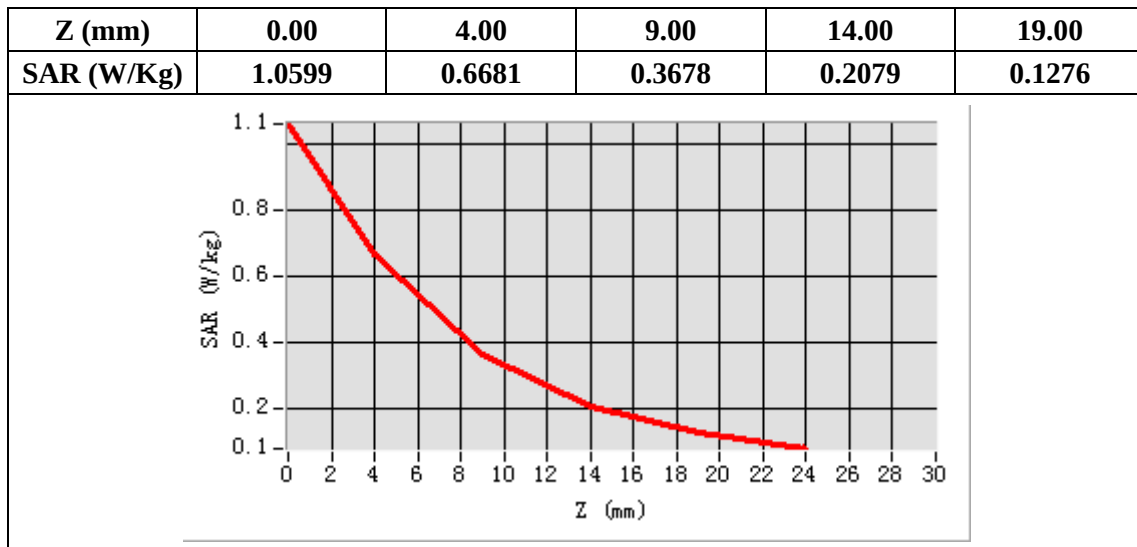
E-Field Probe	SATIMO SN_41/18_EPG0330
Frequency (MHz)	1880
Relative permittivity (real part)	53.26
Relative permittivity (imaginary part)	14.02
Conductivity (S/m)	1.48
Variation (%)	-1.01
ConvF:	2.08



Maximum location: X=-18.00, Y=-13.00

SAR Peak: 1.07 W/kg

SAR 10g (W/Kg)	0.333225
SAR 1g (W/Kg)	0.623985



Plot 5: WCDMA1900, Right Cheek, Middle

Type: Phone measurement

Date of measurement: 06/18/2020

Measurement duration: 22 minutes 04 seconds

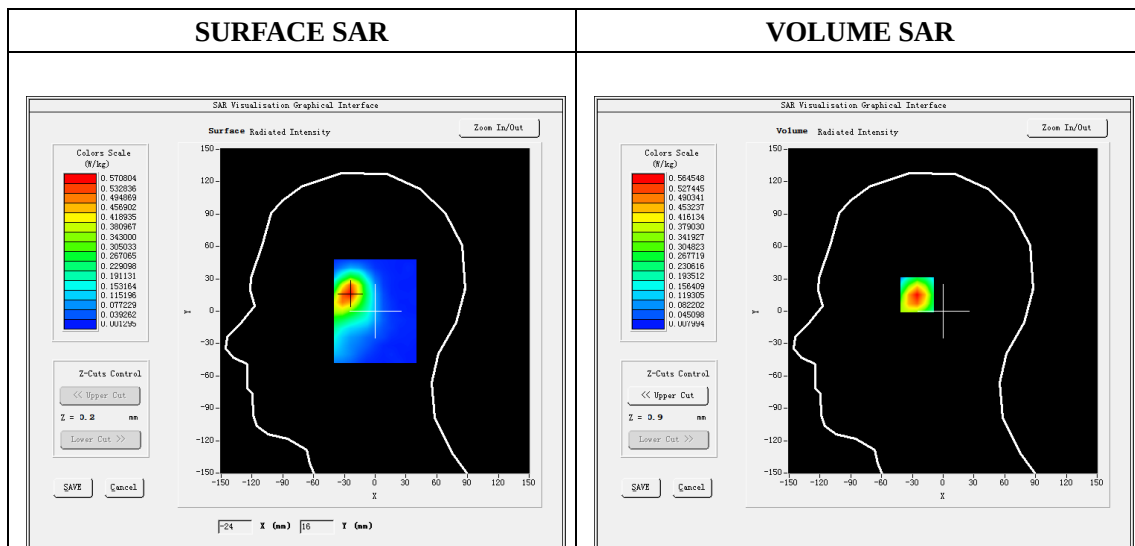
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Right Cheek
Band	Band2_WCDMA1900
Channels	9400
Signal	WCDMA (Duty cycle: 1:1)

B. SAR Measurement Results

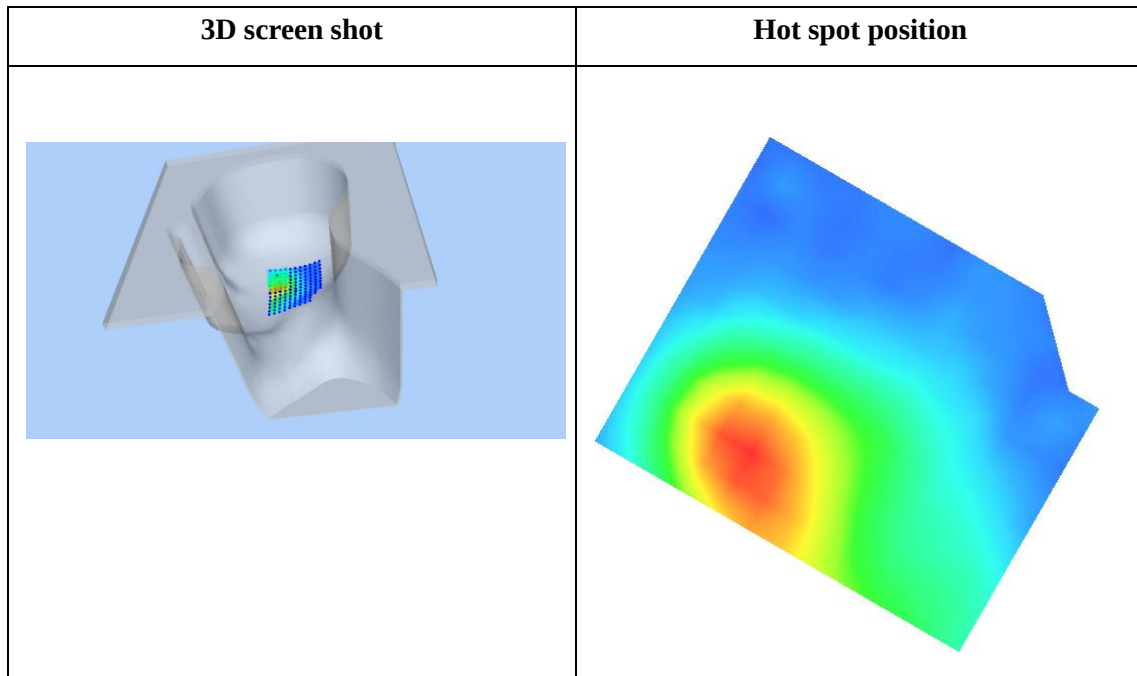
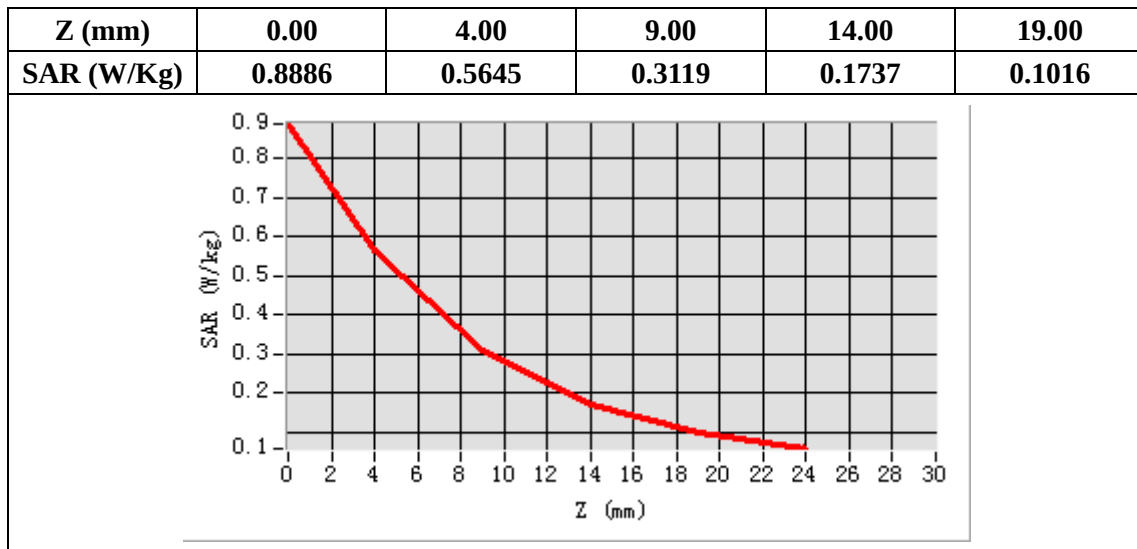
E-Field Probe	SATIMO SN_41/18_EPG0330
Frequency (MHz)	1880
Relative permittivity (real part)	40.47
Relative permittivity (imaginary)	13.00
Conductivity (S/m)	1.37
Variation (%)	-0.45
ConvF:	2.03



Maximum location: X=-25.00, Y=17.00

SAR Peak: 0.89W/kg

SAR 10g (W/Kg)	0.274887
SAR 1g (W/Kg)	0.526300



Plot 6: WCDMA1900, Back, Middle,10mm

Type: Phone measurement

Date of measurement: 06/18/2020

Measurement duration: 22 minutes 01 seconds

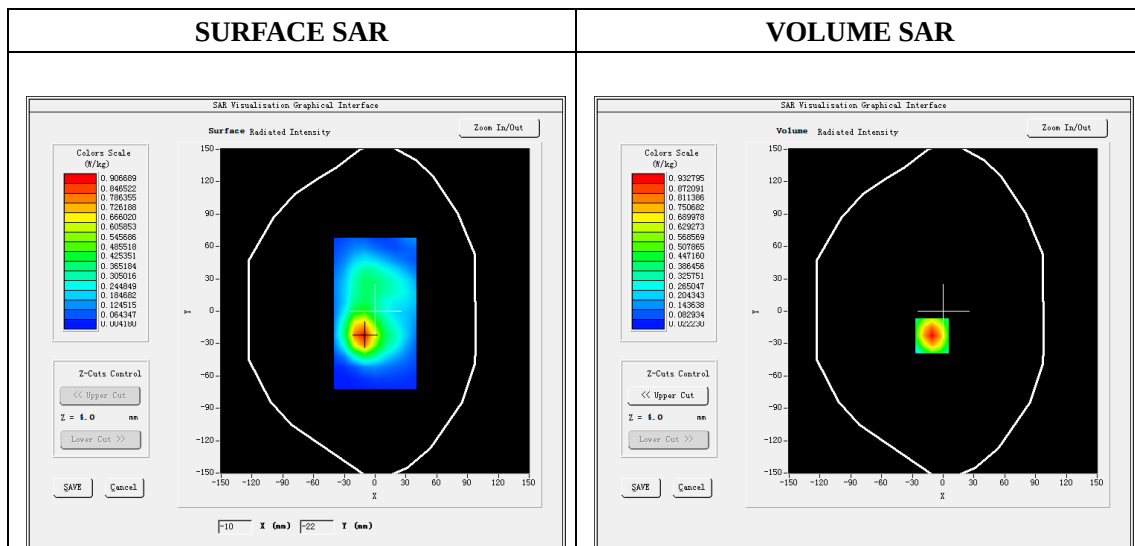
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back
Band	Band2_WCDMA1900
Channels	9400
Signal	WCDMA (Duty cycle: 1:1)

B. SAR Measurement Results

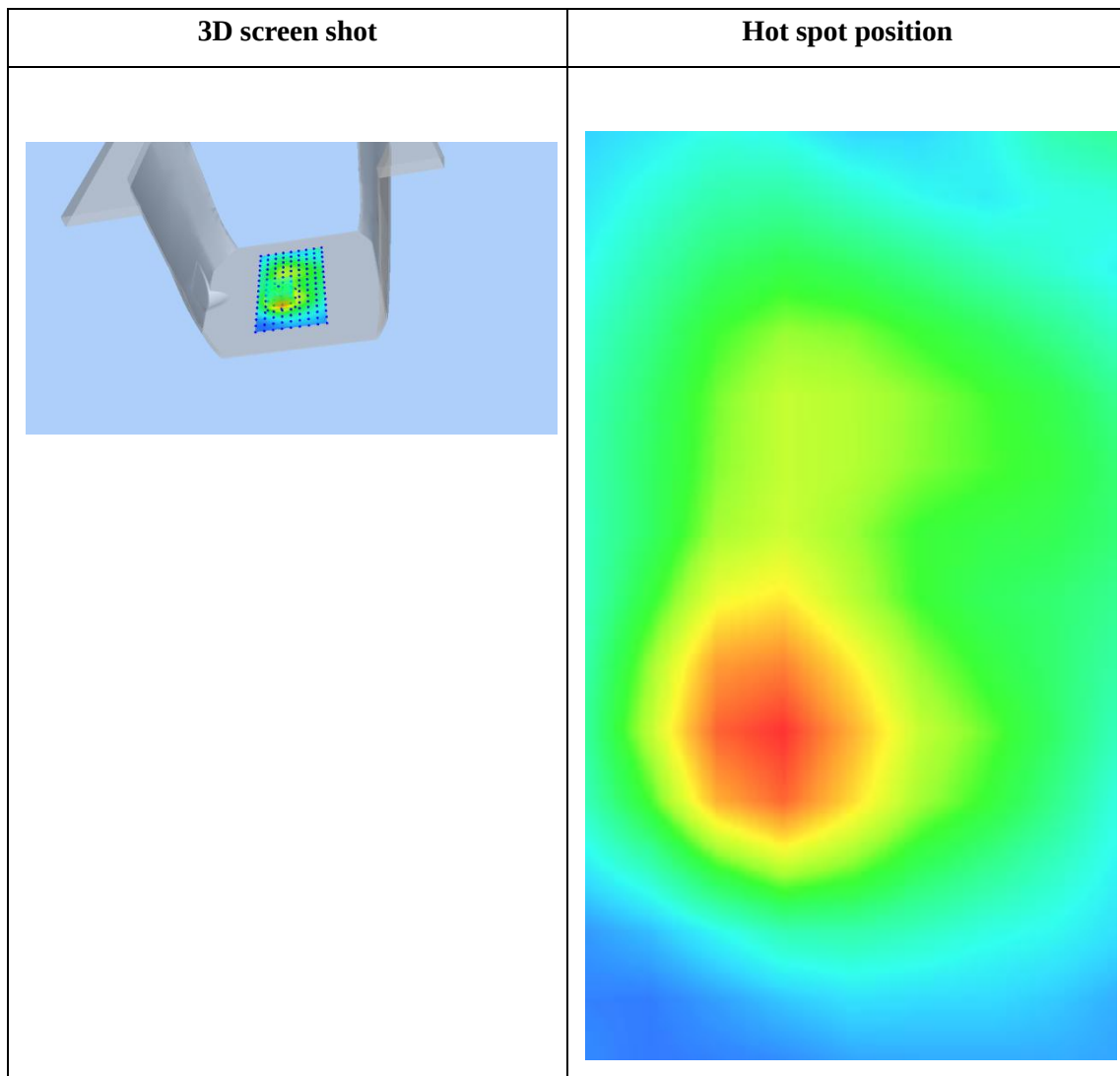
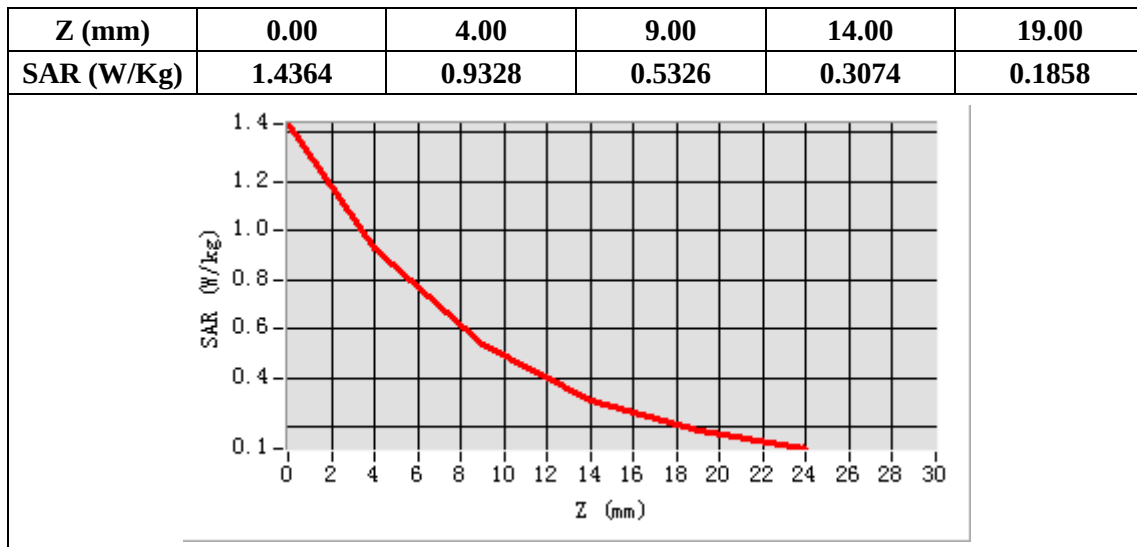
E-Field Probe	SATIMO SN_41/18_EPG0330
Frequency (MHz)	1880
Relative permittivity (real part)	53.26
Relative permittivity (imaginary)	14.02
Conductivity (S/m)	1.48
Variation (%)	-1.14
ConvF:	2.08



Maximum location: X=-11.00, Y=-23.00

SAR Peak: 1.44W/kg

SAR 10g (W/Kg)	0.471819
SAR 1g (W/Kg)	0.870723



Plot 7: WCDMA850, Right Cheek, Middle

Type: Phone measurement

Date of measurement: 06/16/2020

Measurement duration: 22 minutes 09 seconds

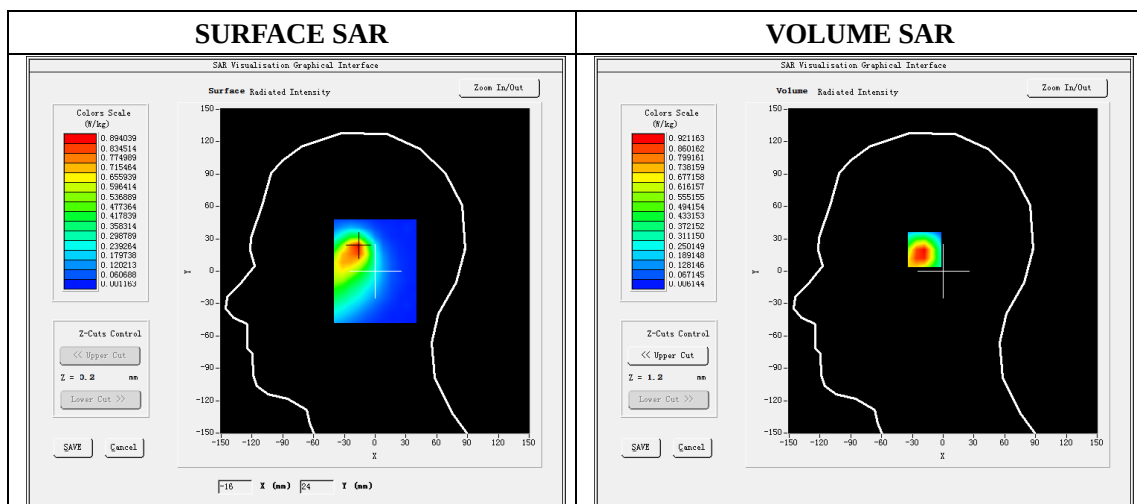
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Right Cheek
Band	Band5_WCDMA850
Channels	4183
Signal	WCDMA (Duty cycle: 1:1)

B. SAR Measurement Results

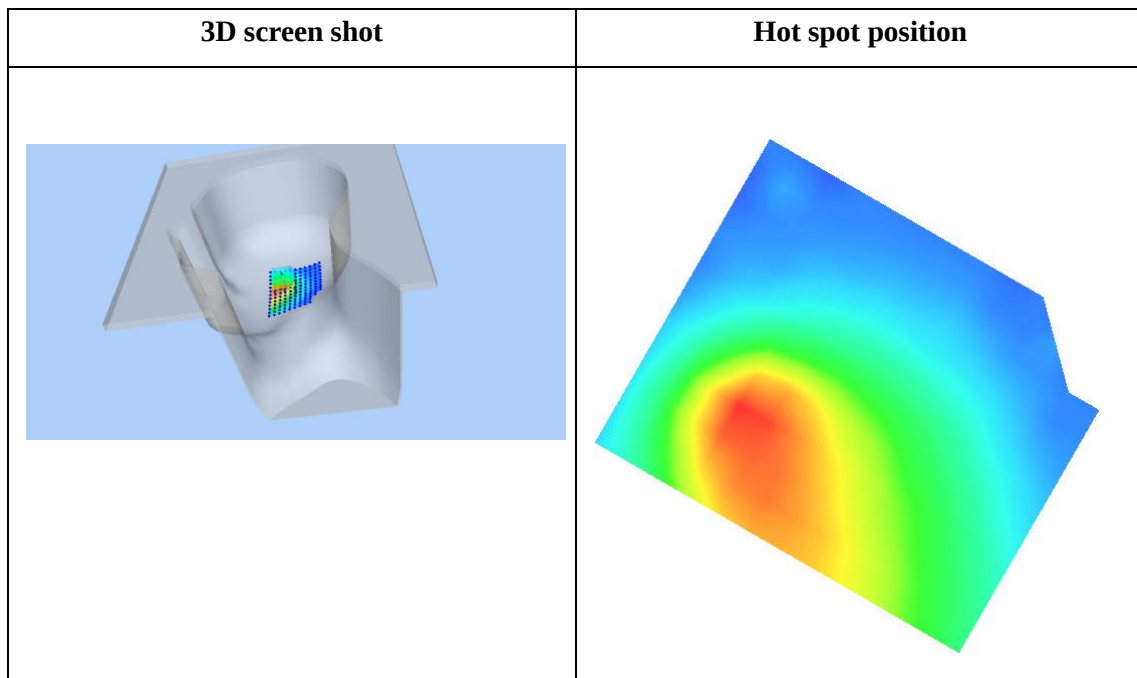
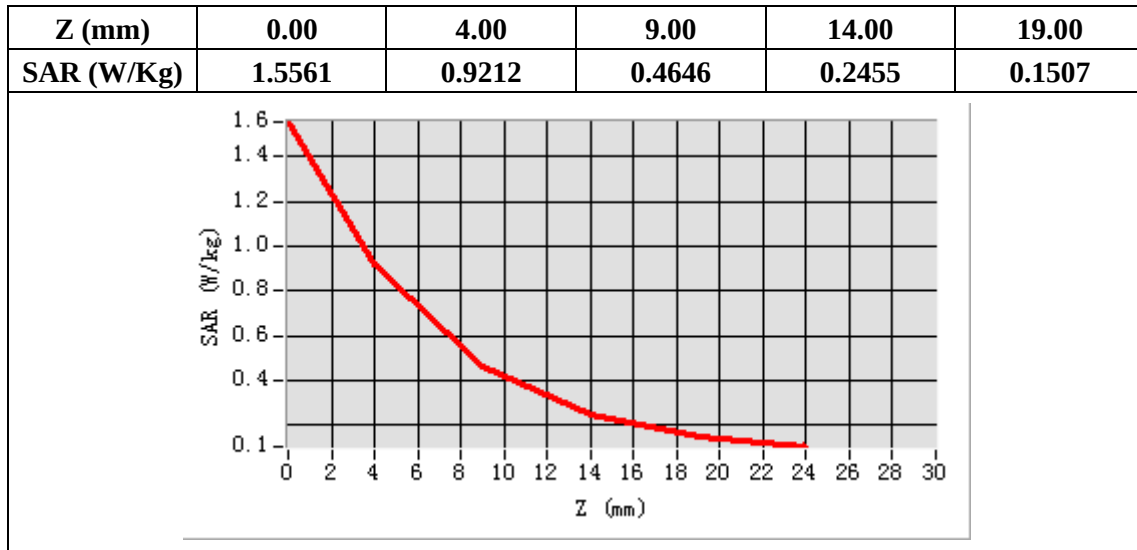
E-Field Probe	SATIMO SN_41/18_EPG0330
Frequency (MHz)	836.6
Relative permittivity (real part)	41.52
Relative permittivity (imaginary)	19.27
Conductivity (S/m)	0.91
Variation (%)	-1.19
ConvF:	1.60



Maximum location: X=-17.00, Y=22.00

SAR Peak: 1.64W/kg

SAR 10g (W/Kg)	0.458296
SAR 1g (W/Kg)	0.902204



Plot 8: WCDMA850, Back, Middle,10mm

Type: Phone measurement

Date of measurement: 06/16/2020

Measurement duration: 22 minutes 07 seconds

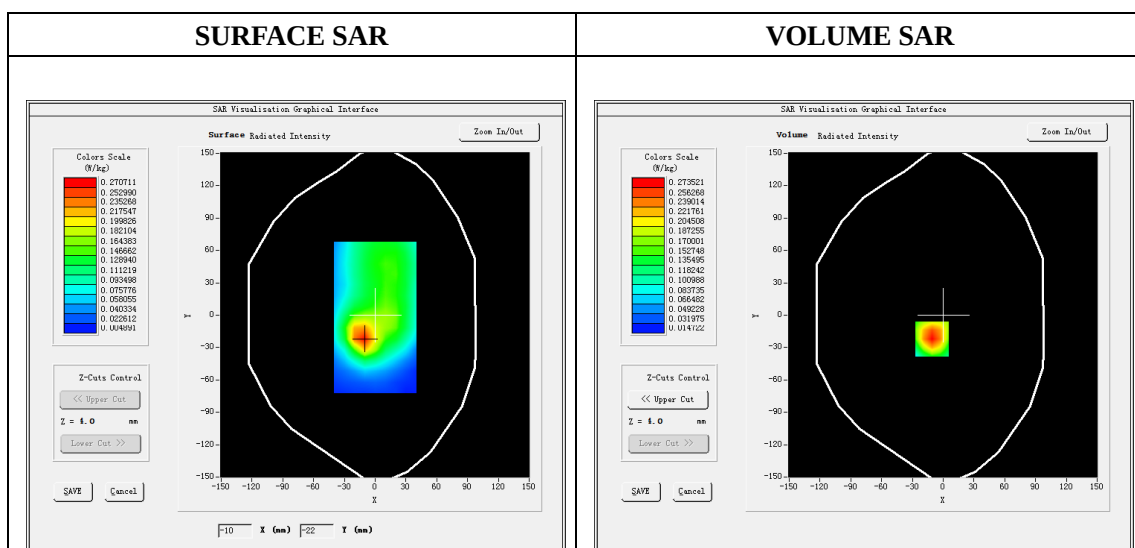
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back
Band	Band5_WCDMA850
Channels	4183
Signal	WCDMA (Duty cycle: 1:1)

B. SAR Measurement Results

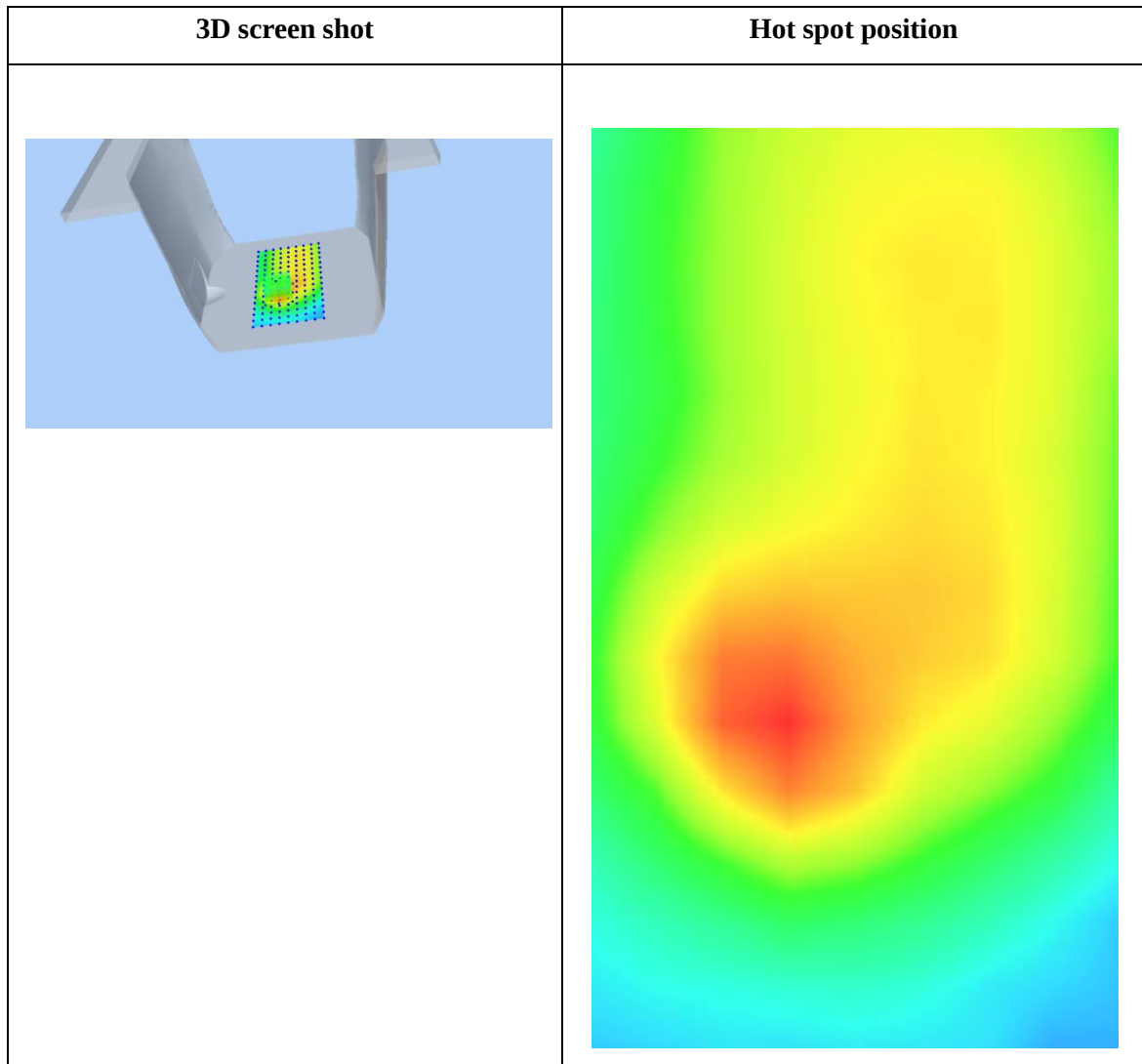
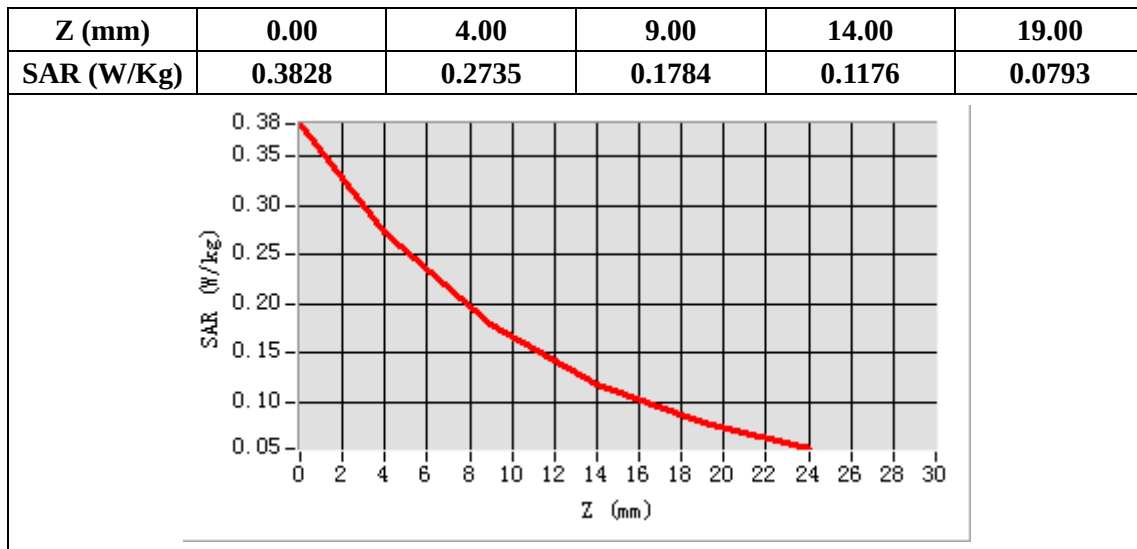
E-Field Probe	SATIMO SN_41/18_EPG0330
Frequency (MHz)	836.6
Relative permittivity (real part)	55.23
Relative permittivity (imaginary)	21.34
Conductivity (S/m)	0.99
Variation (%)	-2.23
ConvF:	1.64



Maximum location: X=-11.00, Y=-22.00

SAR Peak: 0.38W/kg

SAR 10g (W/Kg)	0.154834
SAR 1g (W/Kg)	0.257199



Plot 9: Wi-Fi 802.11b, Left Cheek, Middle

Type: Phone measurement

Date of measurement: 06/20/2020

Measurement duration: 22 minutes 08 seconds

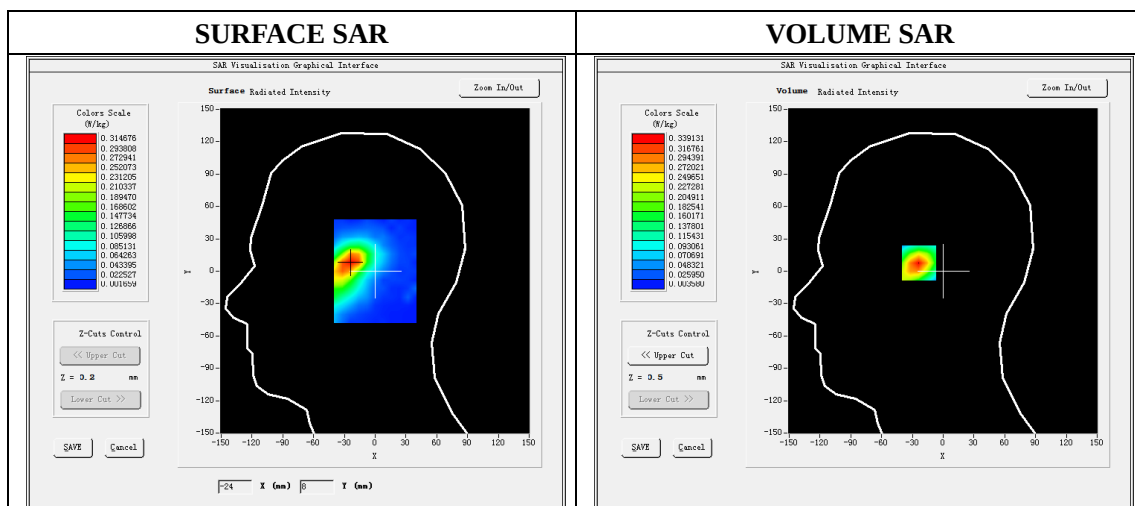
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=5mm,dy=5mm
ZoomScan	7x7x8,dx=5mm dy=5mm dz=4mm
Phantom	Validation plane
Device Position	Left Cheek
Band	WIFI
Channels	6
Signal	DSSS (Duty cycle: 1:1)

B. SAR Measurement Results

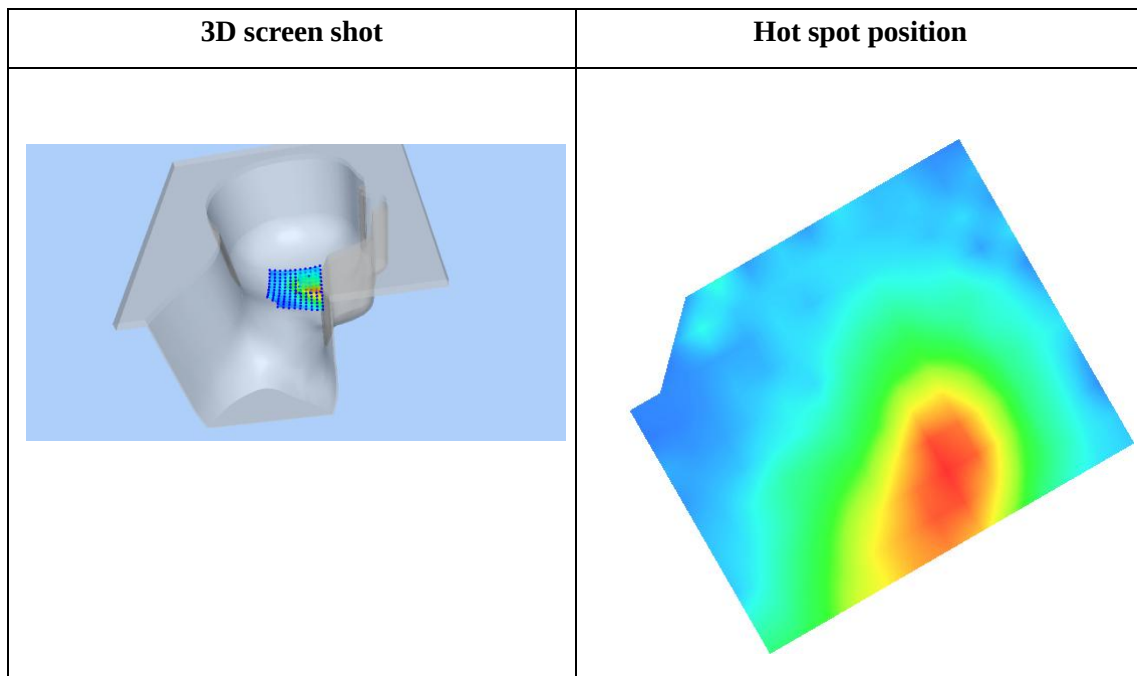
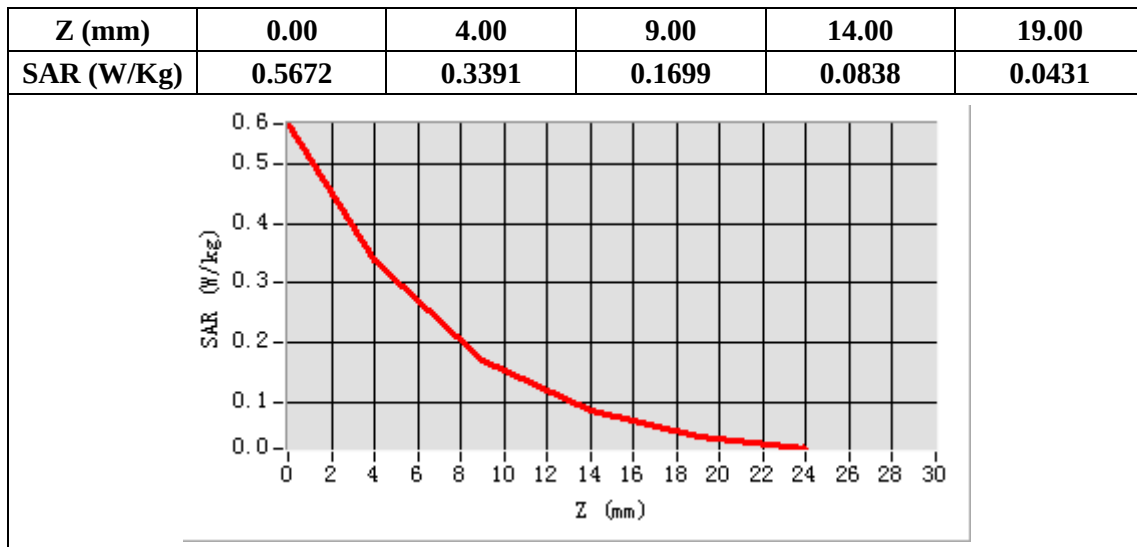
E-Field Probe	SATIMO SN_41/18_EPG0330
Frequency (MHz)	2437
Relative permittivity (real part)	39.22
Relative permittivity (imaginary)	13.30
Conductivity (S/m)	1.81
Variation (%)	-1.32
ConvF:	2.05



Maximum location: X=-22.00 Y=9.00

SAR Peak: 0.57 W/kg

SAR 10g (W/Kg)	0.154712
SAR 1g (W/Kg)	0.316247



Plot 10: Wi-Fi 802.11b, Back ,Middle, 10mm

Type: Phone measurement

Date of measurement: 06/20/2020

Measurement duration: 22 minutes 10 seconds

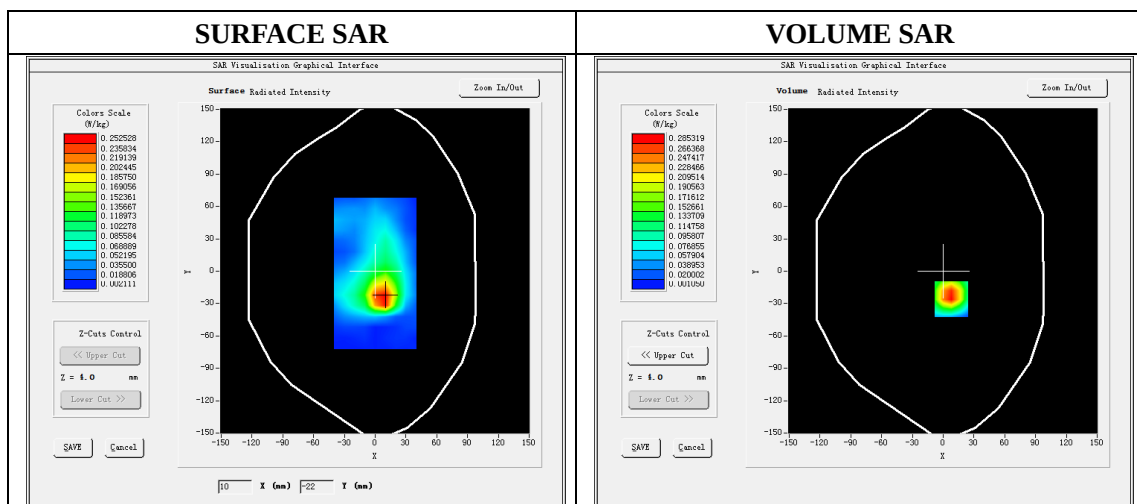
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=5mm,dy=5mm
ZoomScan	7x7x8,dx=5mm dy=5mm dz=4mm
Phantom	Validation plane
Device Position	Back
Band	WIFI
Channels	6
Signal	DSSS (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_41/18_EPG0330
Frequency (MHz)	2437
Relative permittivity (real part)	52.69
Relative permittivity (imaginary)	14.25
Conductivity (S/m)	1.94
Variation (%)	0.80
ConvF:	2.12



Maximum location: X=8.00 Y=-26.00

SAR Peak: 0.51 W/kg

SAR 10g (W/Kg)	0.130828
SAR 1g (W/Kg)	0.274162

