

Appendix B: SAR Measurement results Plots

Plot	Frequency/Mode	Testing Position and Channel	Test Date
1	LTE Band5	Body Face, Middle ,10mm	2021/08/13
2	LTE Band5	Edge A, Middle ,10mm	2021/08/13
3	LTE Band7	Body Face, Middle ,10mm	2021/08/16
4	LTE Band7	Edge A, Middle ,10mm	2021/08/16
5	LTE Band41	Body Back, Middle ,10mm	2021/08/16
6	LTE Band41	Edge A, Middle ,10mm	2021/08/16
7	WIFI 2.4G 802.11b	Body Back, Middle ,10mm	2021/08/16
8	WIFI 5G 802.11a	Body Back, Middle ,10mm	2021/08/18

Plot 1: LTE Band5, 10MHz, Face, Middle,10mm

Type: Phone measurement

Date of measurement: 08/13/2021

Measurement duration: 22 minutes 02 seconds

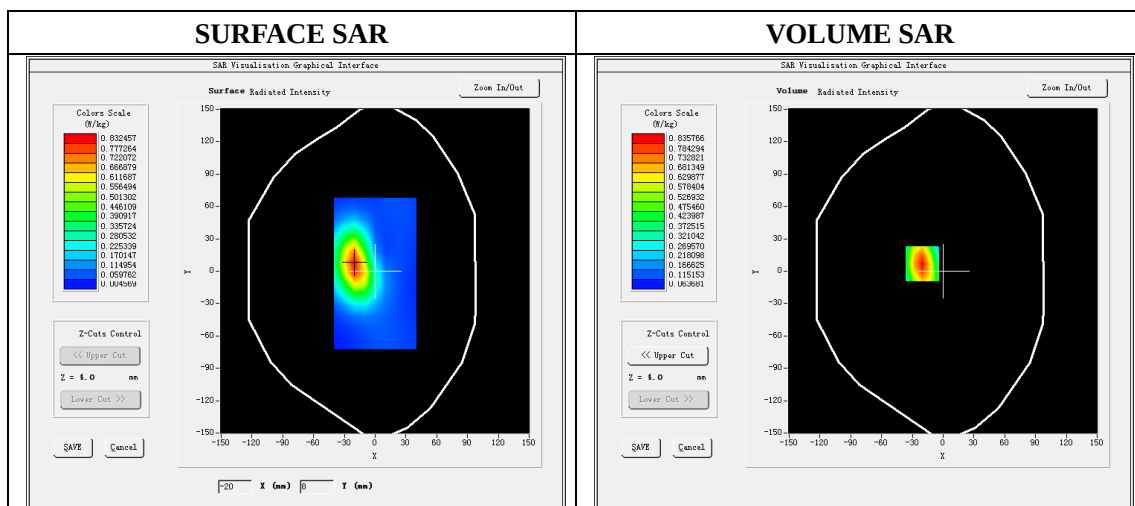
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Face
Band	LTE Band 5
Channels	20525
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

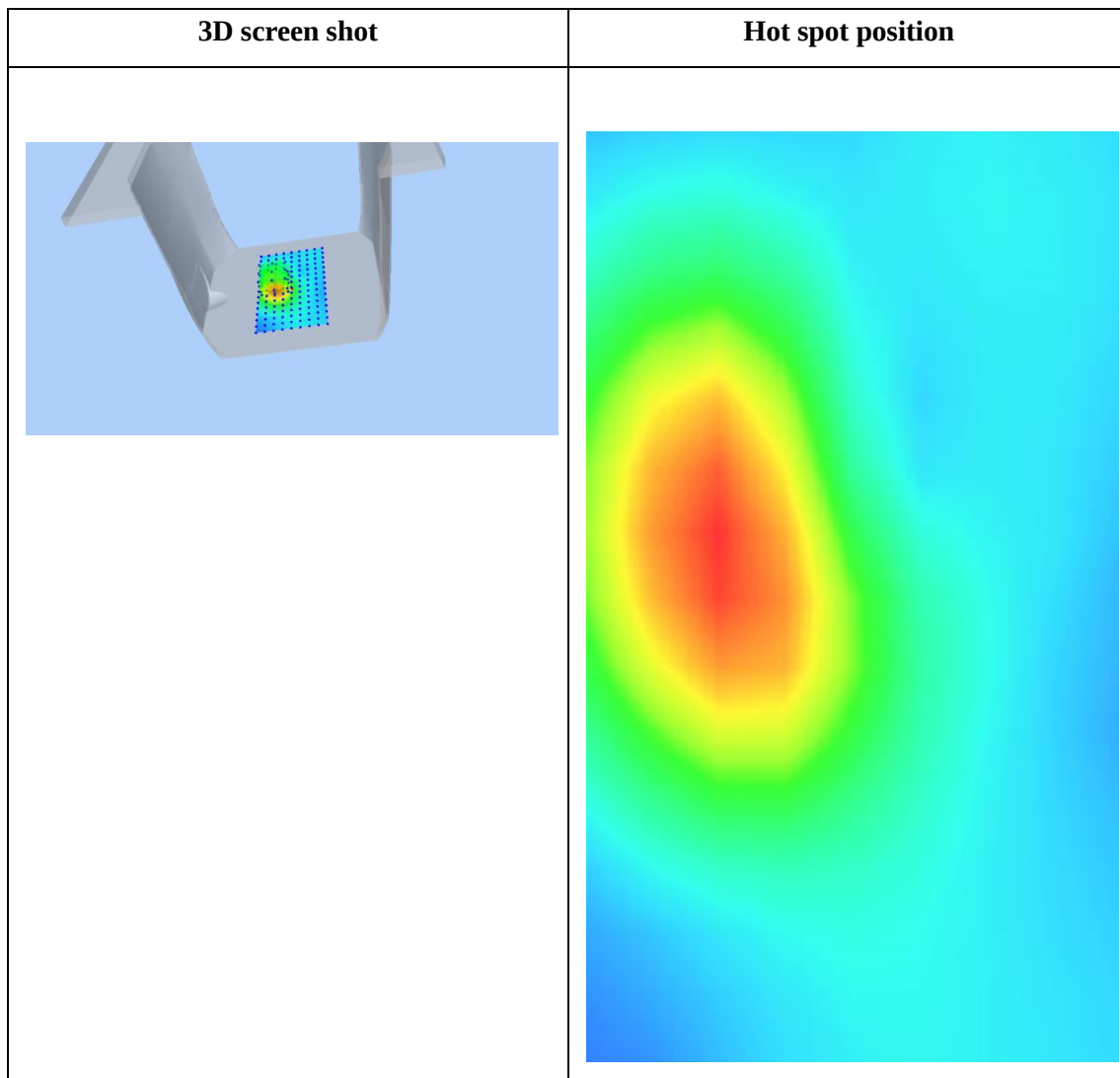
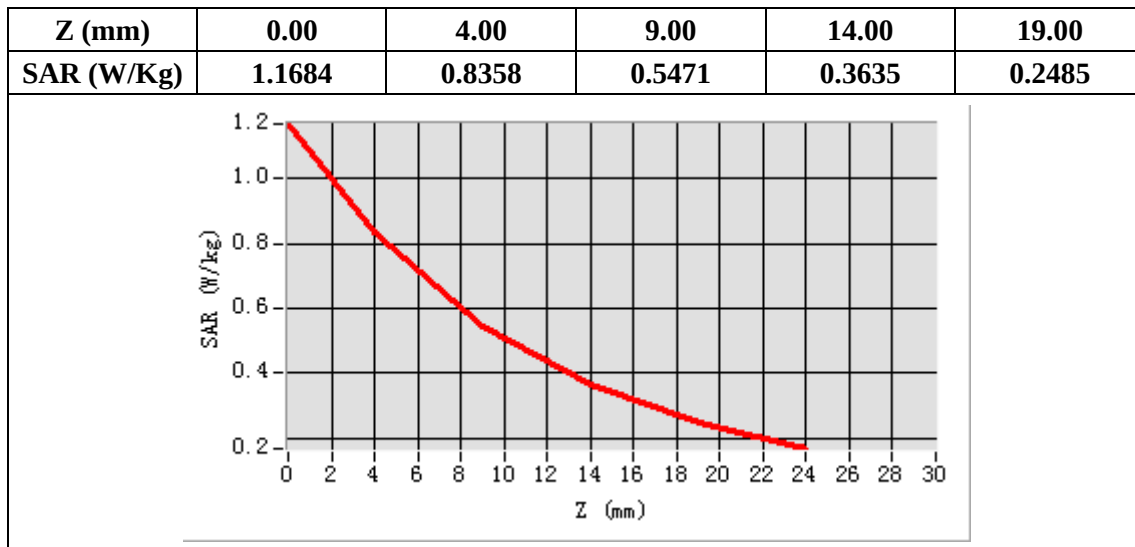
E-Field Probe	SATIMO SN_36/20_EPGO348
Frequency (MHz)	836.5
Relative permittivity (real part)	55.28
Relative permittivity (imaginary)	21.34
Conductivity (S/m)	0.99
Variation (%)	-1.07
ConvF:	1.90



Maximum location: X=-20.00, Y=7.00

SAR Peak: 1.17W/kg

SAR 10g (W/Kg)	0.475770
SAR 1g (W/Kg)	0.782936



Plot 2: LTE Band5, 10MHz, Edge A, Middle,10mm

Type: Phone measurement

Date of measurement: 08/13/2021

Measurement duration: 22 minutes 07 seconds

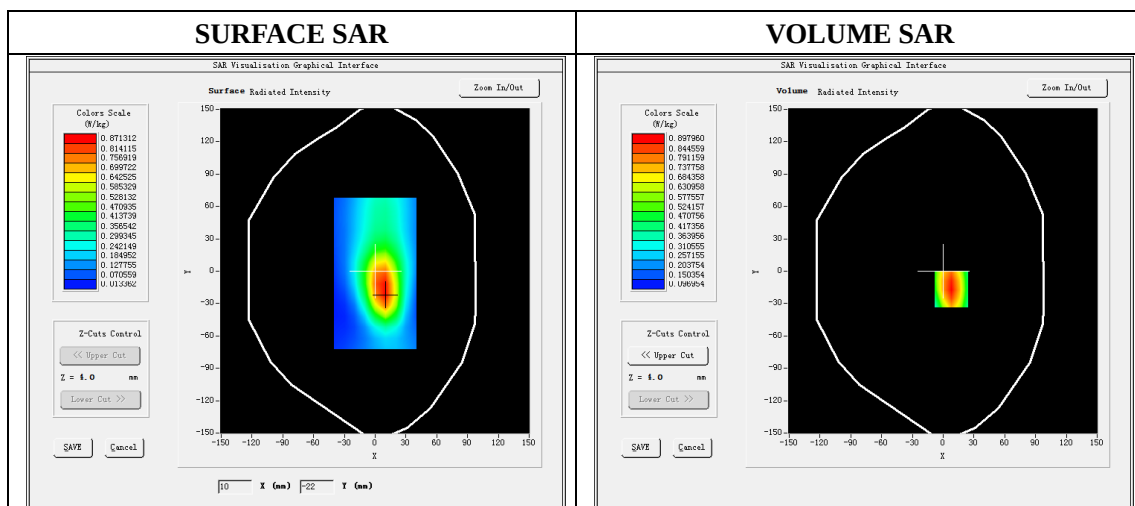
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Edge A
Band	LTE Band 5
Channels	20525
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

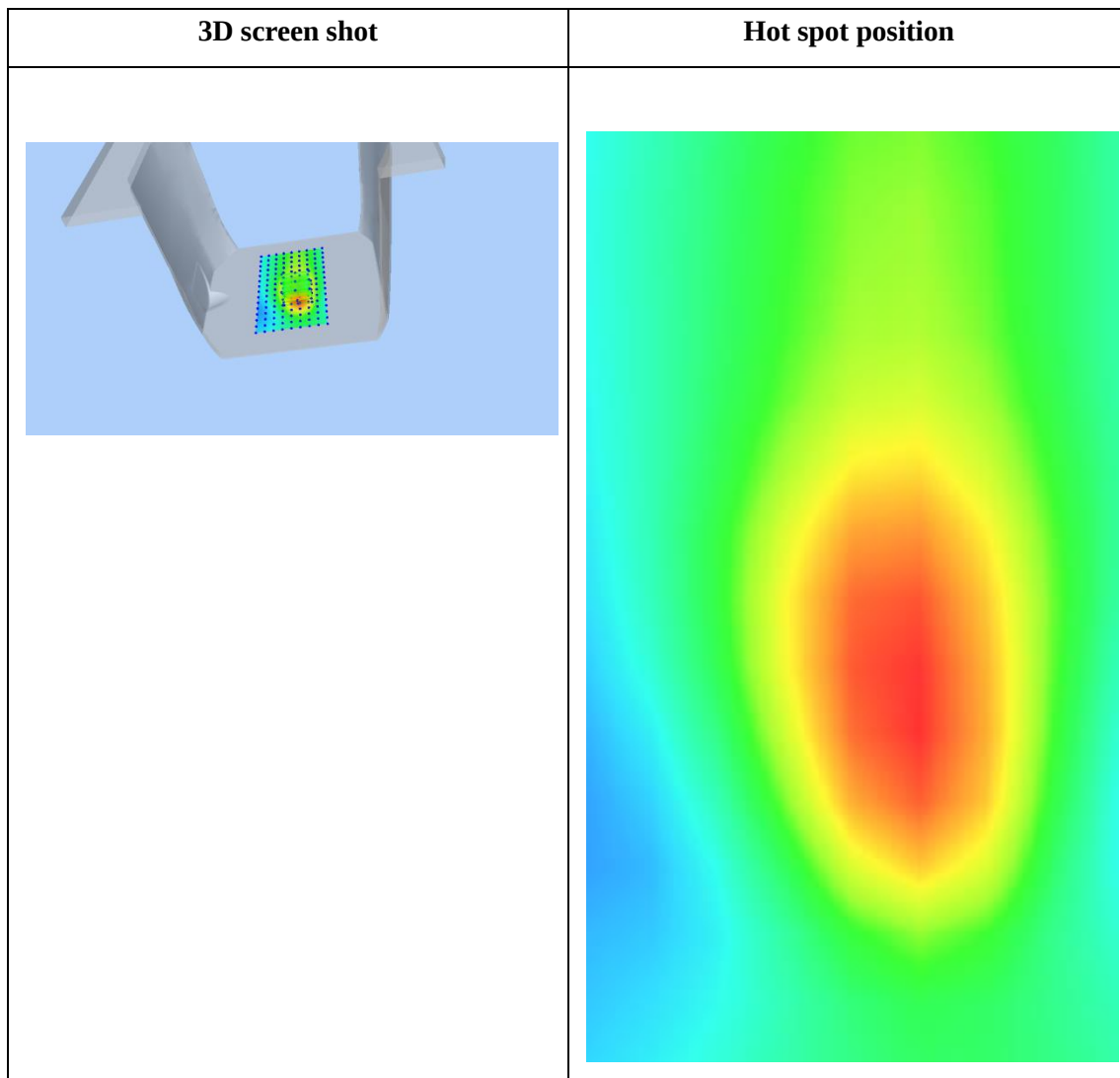
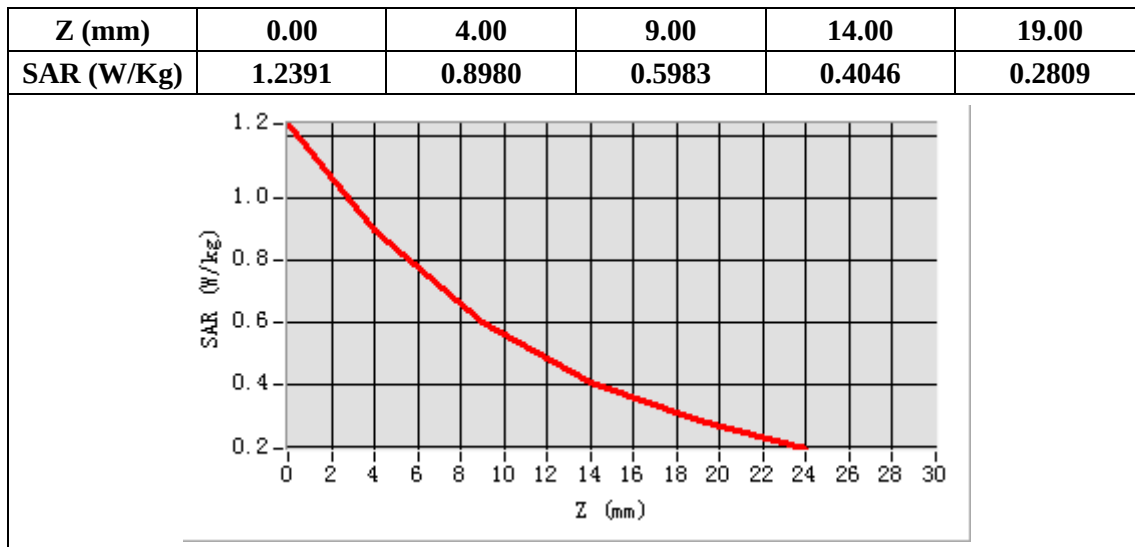
E-Field Probe	SATIMO SN_36/20_EPGO348
Frequency (MHz)	836.5
Relative permittivity (real part)	55.28
Relative permittivity (imaginary)	21.34
Conductivity (S/m)	0.99
Variation (%)	-0.92
ConvF:	1.90



Maximum location: X=8.00, Y=-17.00

SAR Peak: 1.24W/kg

SAR 10g (W/Kg)	0.538836
SAR 1g (W/Kg)	0.848581



Plot 3: LTE Band7, 20MHz, Face, Middle,10mm

Type: Phone measurement

Date of measurement: 08/16/2021

Measurement duration: 22 minutes 03 seconds

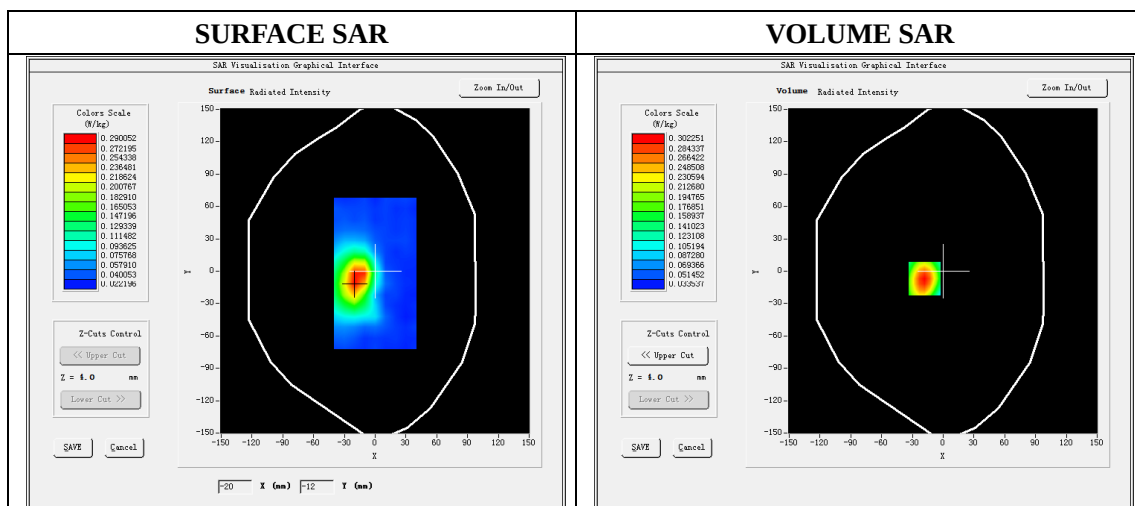
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=5mm,dy=5mm
ZoomScan	7x7x8,dx=5mm dy=5mm dz=4mm
Phantom	Validation plane
Device Position	Face
Band	LTE Band 7
Channels	21350
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

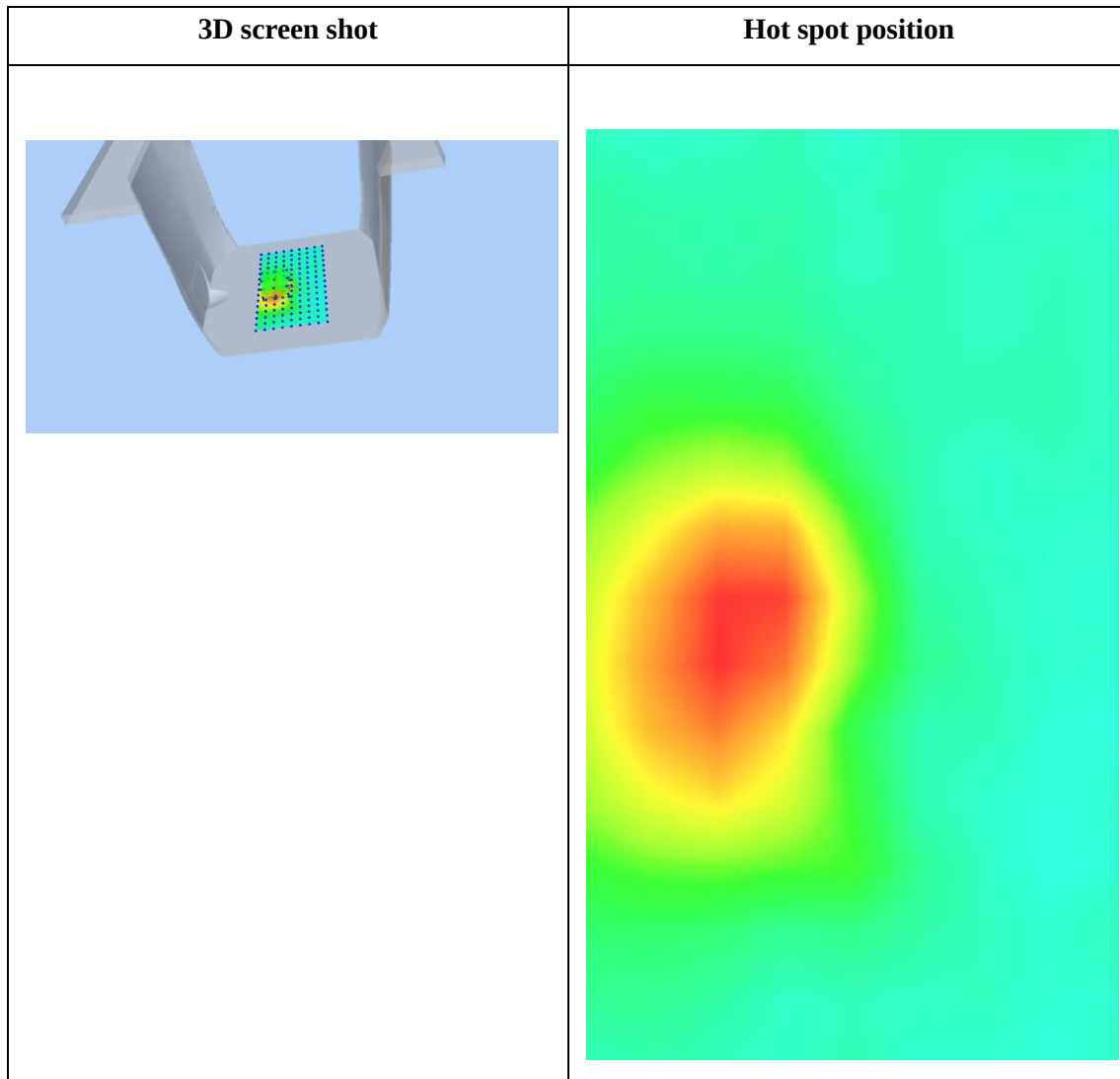
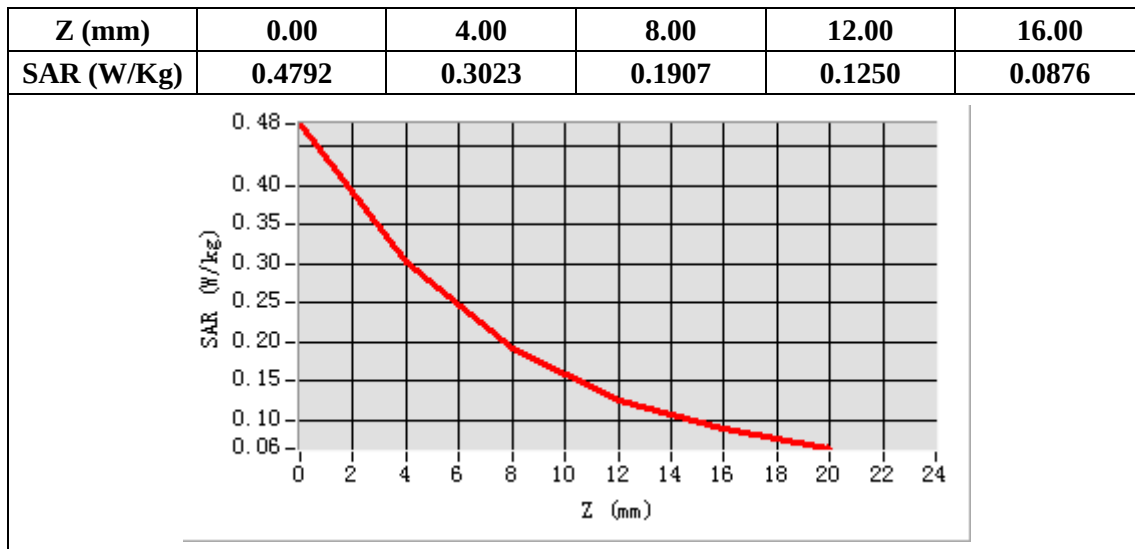
E-Field Probe	SATIMO SN_36/20_EPGO348
Frequency (MHz)	2560
Relative permittivity (real part)	52.52
Relative permittivity (imaginary)	14.95
Conductivity (S/m)	2.16
Variation (%)	-1.08
ConvF:	2.25



Maximum location: X=-18.00 Y=-7.00

SAR Peak: 0.48 W/kg

SAR 10g (W/Kg)	0.159912
SAR 1g (W/Kg)	0.280780



Plot 4: LTE Band7, 20MHz, Edge A, Middle,10mm

Type: Phone measurement

Date of measurement: 08/16/2021

Measurement duration: 22 minutes 05 seconds

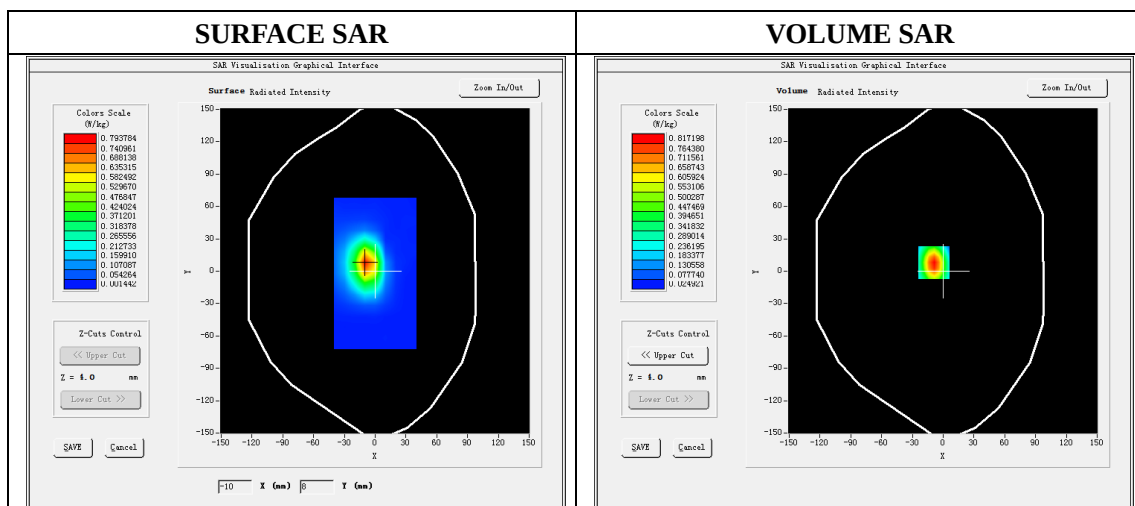
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=5mm,dy=5mm
ZoomScan	7x7x8,dx=5mm dy=5mm dz=4mm
Phantom	Validation plane
Device Position	Edge A
Band	LTE Band 7
Channels	21350
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

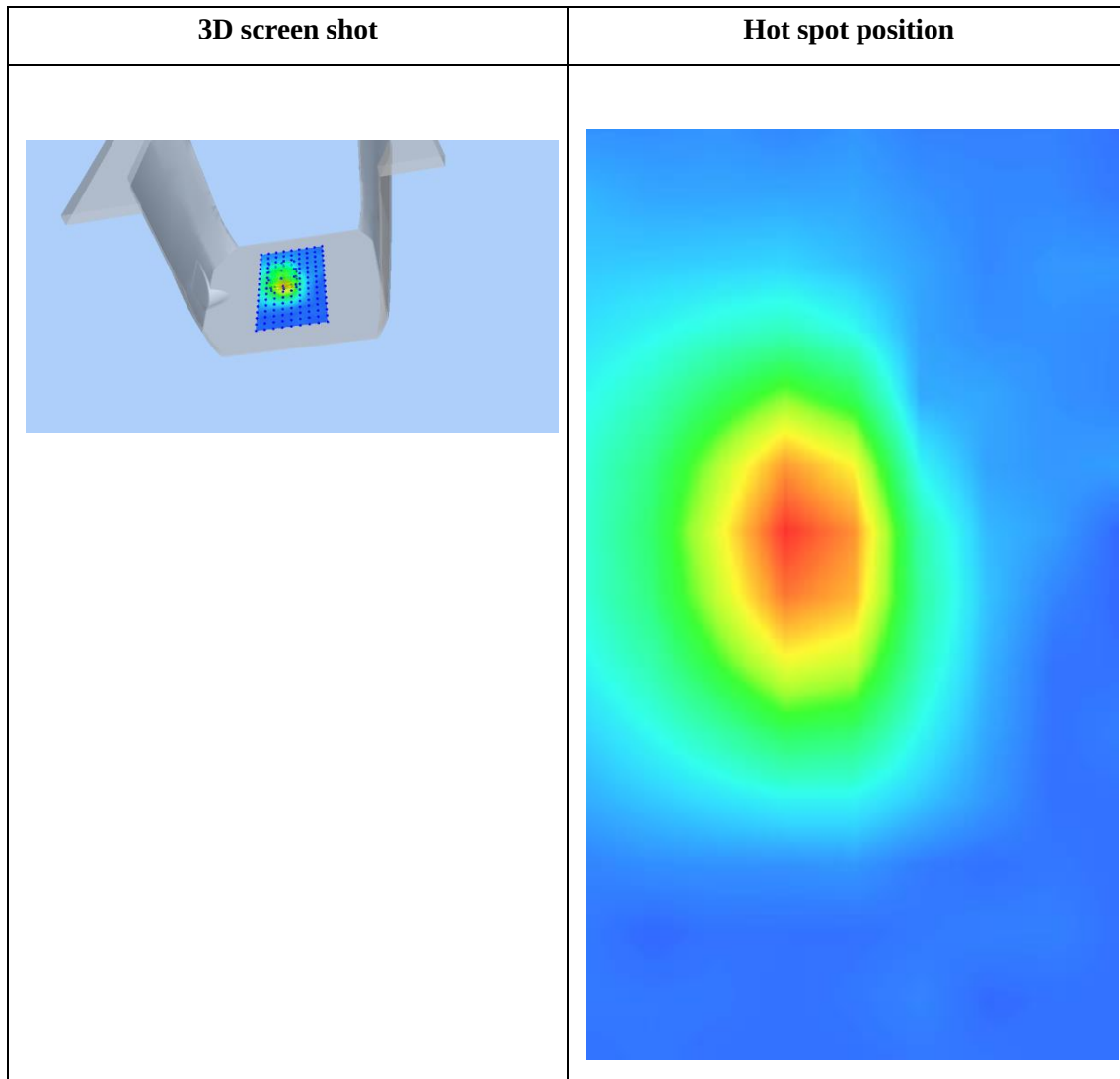
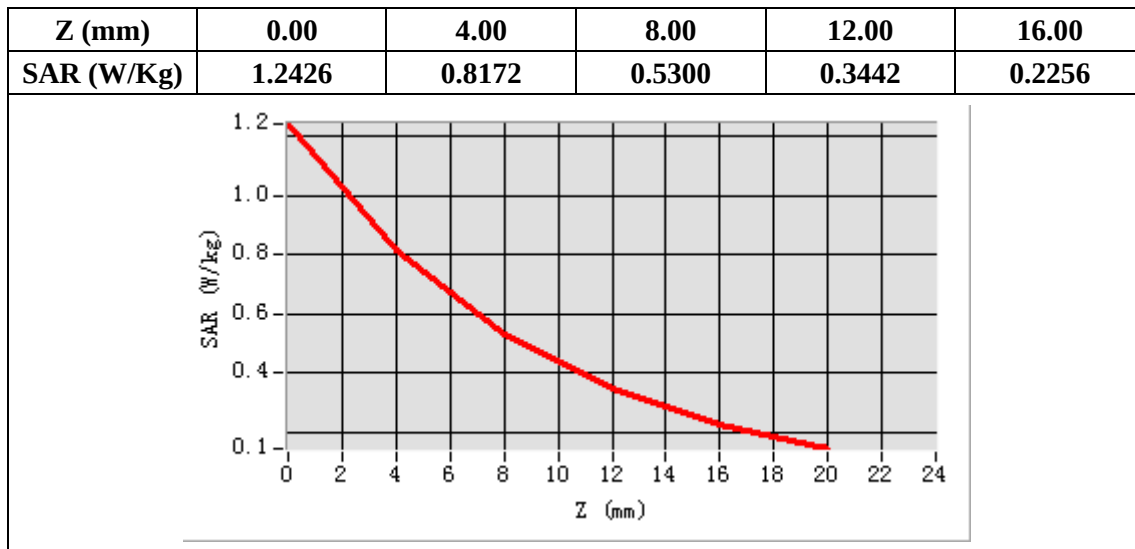
E-Field Probe	SATIMO SN_36/20_EPGO348
Frequency (MHz)	2560
Relative permittivity (real part)	52.52
Relative permittivity (imaginary)	14.95
Conductivity (S/m)	2.16
Variation (%)	-1.84
ConvF:	2.25



Maximum location: X=-9.00 Y=8.00

SAR Peak: 1.25 W/kg

SAR 10g (W/Kg)	0.384426
SAR 1g (W/Kg)	0.738959



Plot 5: LTE Band41, 20MHz, Back, Middle,10mm

Type: Phone measurement

Date of measurement: 08/16/2021

Measurement duration: 22 minutes 20 seconds

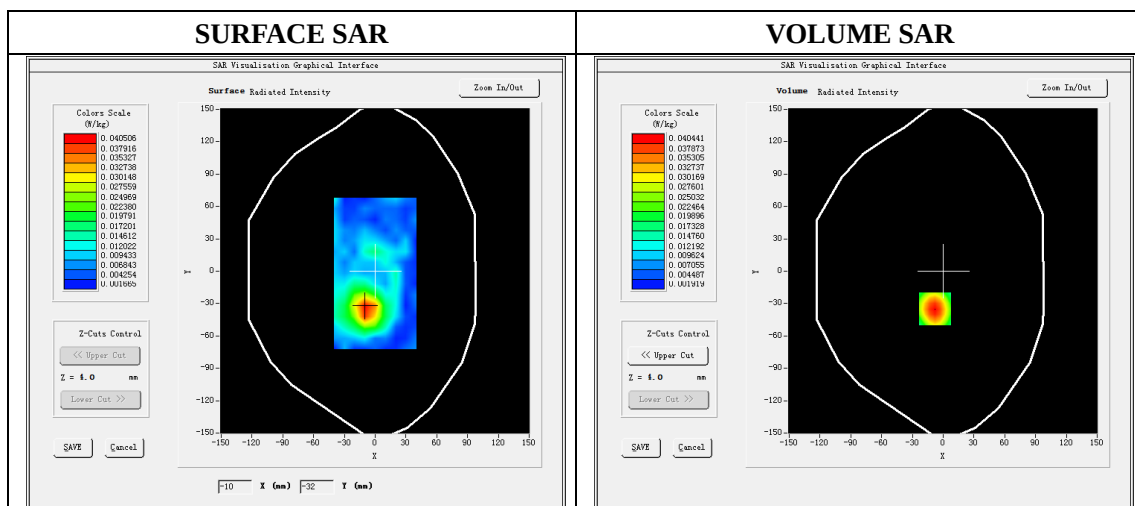
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back
Band	LTE Band 41
Channels	40390
Signal	LTE (Duty cycle: 63.33%)

B. SAR Measurement Results

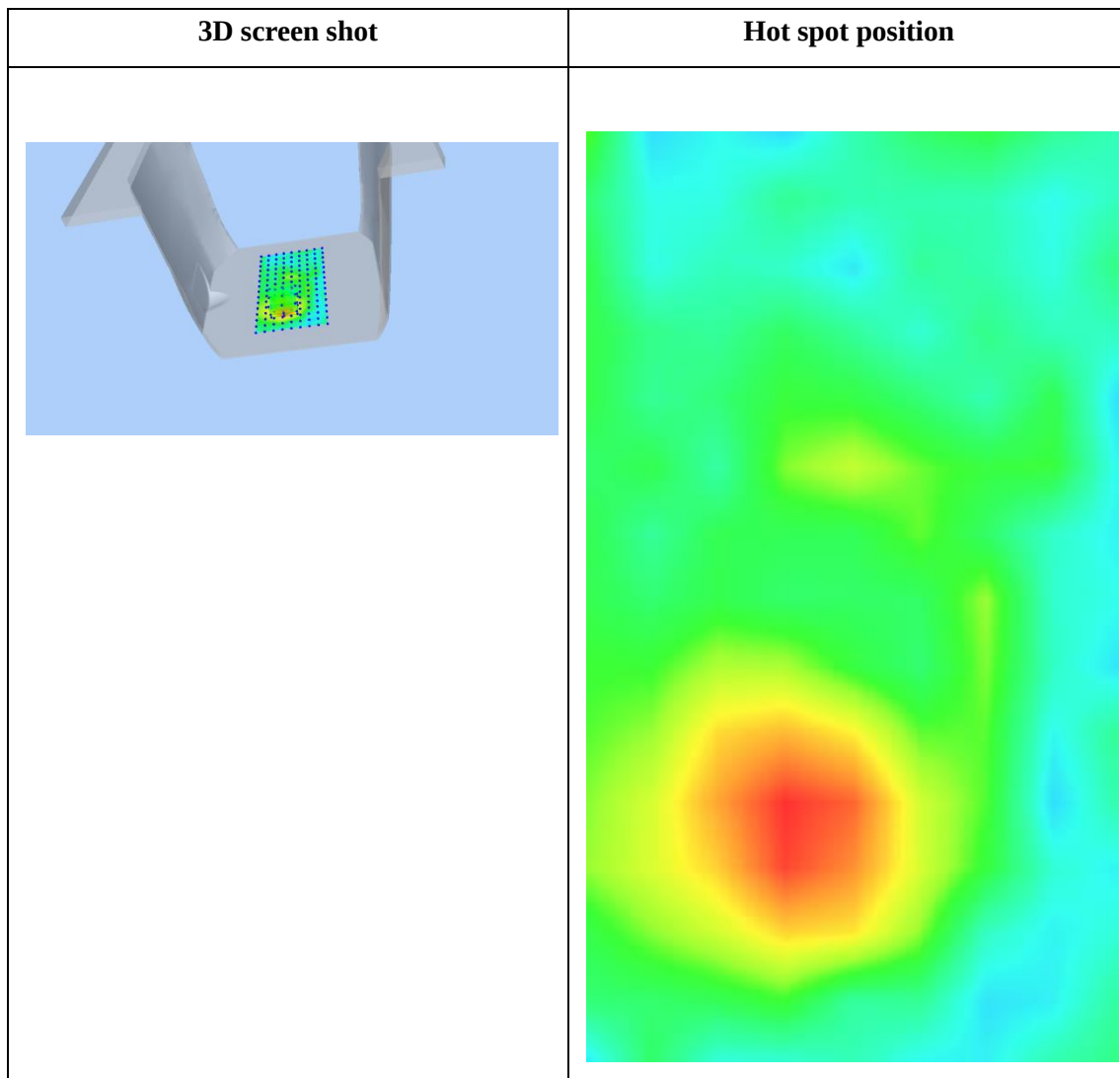
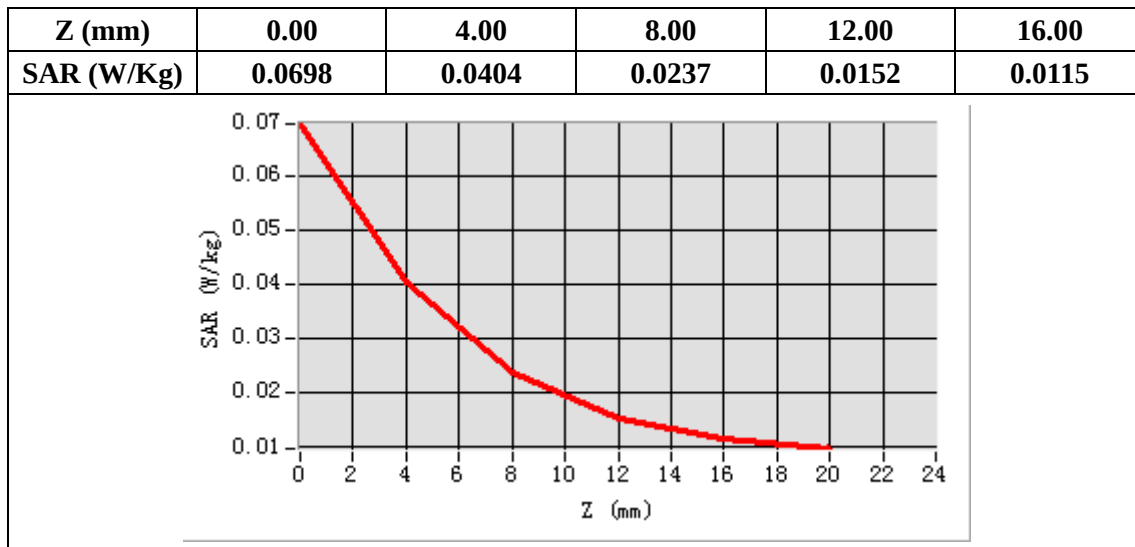
E-Field Probe	SATIMO SN_36/20_EPGO348
Frequency (MHz)	2570
Relative permittivity (real part)	52.52
Relative permittivity (imaginary)	14.95
Conductivity (S/m)	2.16
Variation (%)	-4.50
ConvF:	2.25



Maximum location: X=-8.00, Y=-35.00

SAR Peak: 0.07W/kg

SAR 10g (W/Kg)	0.021961
SAR 1g (W/Kg)	0.038673



Plot 6: LTE Band41, 20MHz, Edge A, Middle,10mm

Type: Phone measurement

Date of measurement: 08/16/2021

Measurement duration: 22 minutes 23 seconds

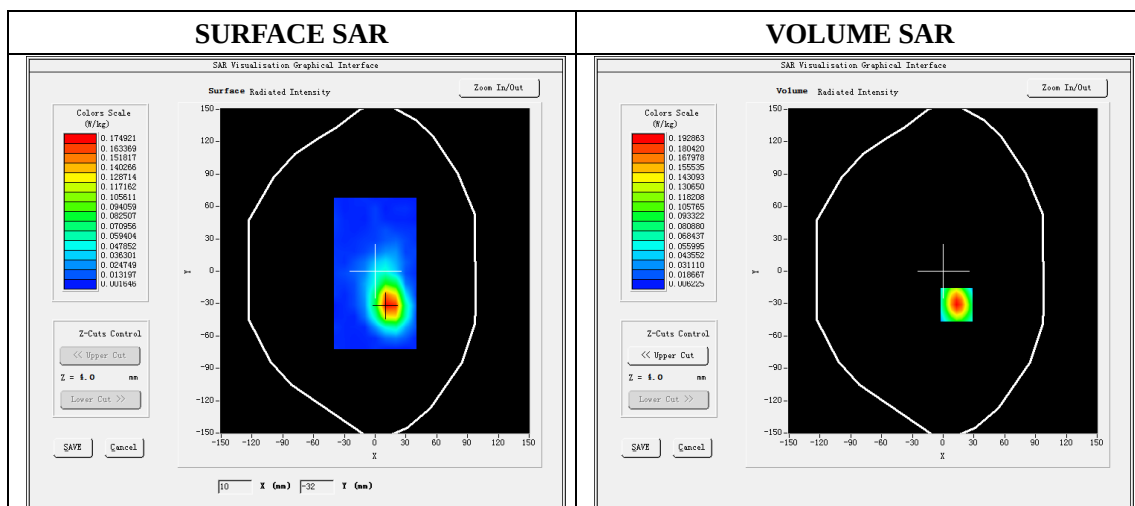
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Edge A
Band	LTE Band 41
Channels	40390
Signal	LTE (Duty cycle: 63.33%)

B. SAR Measurement Results

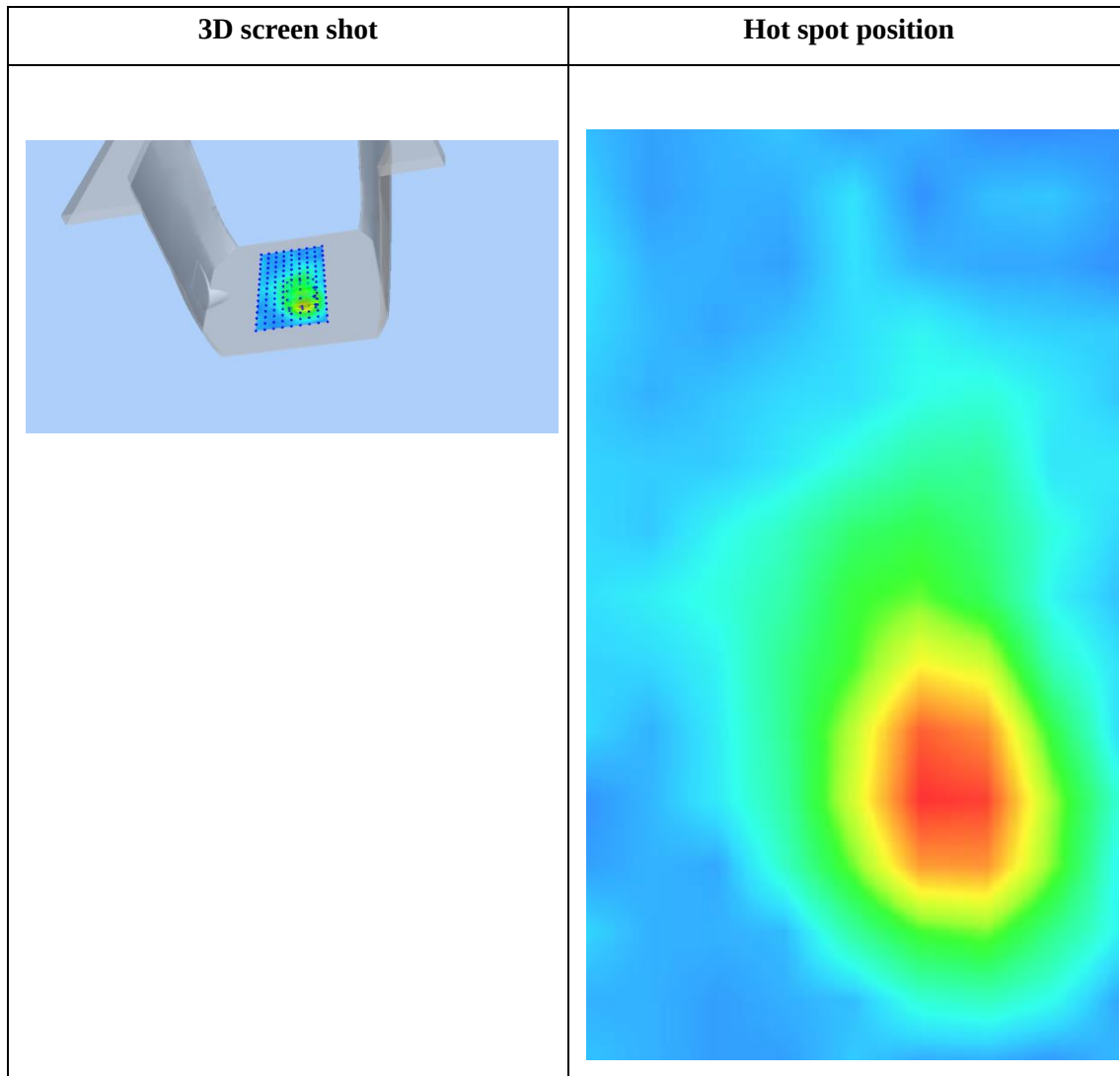
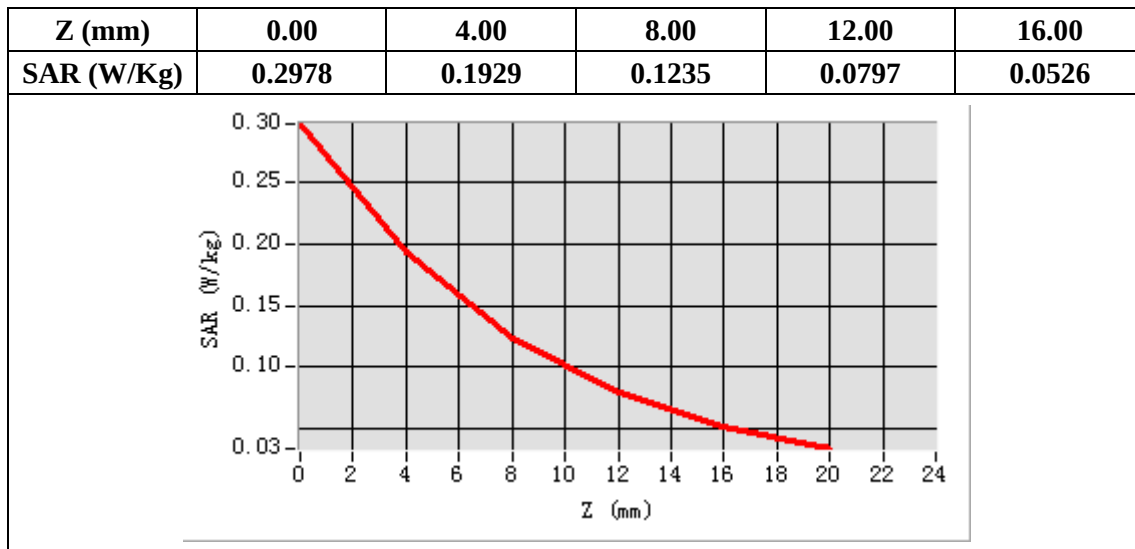
E-Field Probe	SATIMO SN_36/20_EPGO348
Frequency (MHz)	2570
Relative permittivity (real part)	52.52
Relative permittivity (imaginary)	14.95
Conductivity (S/m)	2.16
Variation (%)	-3.01
ConvF:	2.25



Maximum location: X=13.00, Y=-31.00

SAR Peak: 0.30W/kg

SAR 10g (W/Kg)	0.091810
SAR 1g (W/Kg)	0.177578



Plot 7: Wi-Fi 802.11b, Back, Middle, 10mm

Type: Phone measurement

Date of measurement: 08/16/2021

Measurement duration: 22 minutes 10 seconds

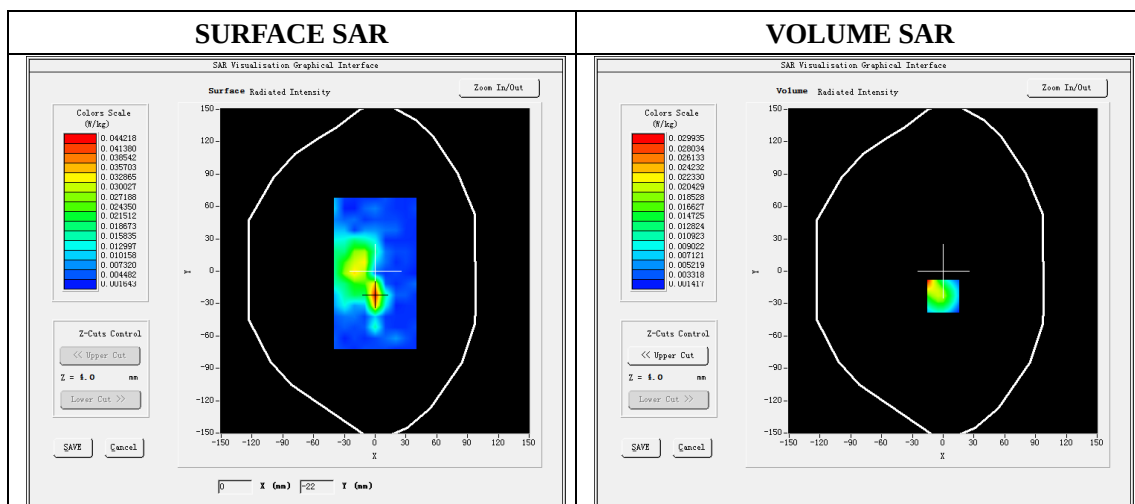
Mobile Phone IMEI number: --

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

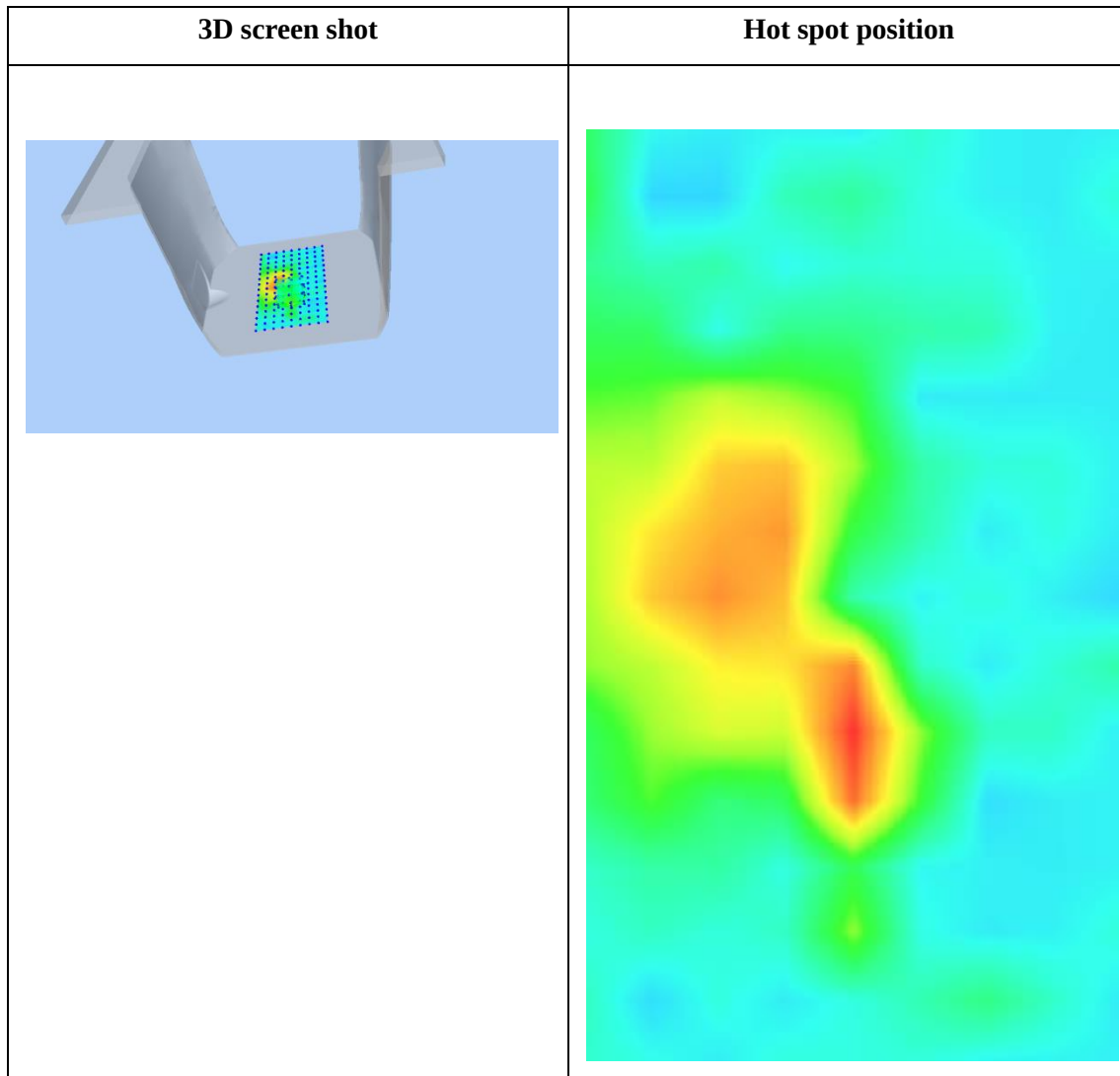
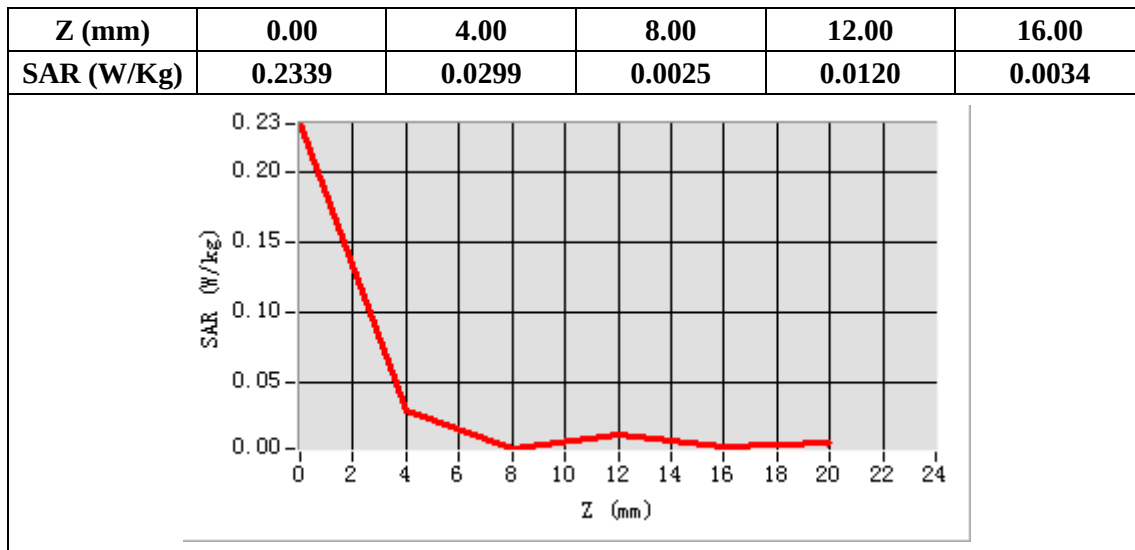
E-Field Probe	SATIMO SN_36/20_EPGO348
Frequency (MHz)	2437
Relative permittivity (real part)	52.74
Relative permittivity (imaginary)	14.47
Conductivity (S/m)	1.97
Variation (%)	4.74
ConvF:	2.47



Maximum location: X=0.00 Y=-23.00

SAR Peak: 0.05 W/kg

SAR 10g (W/Kg)	0.012501
SAR 1g (W/Kg)	0.024012



Plot 8: WIFI 5G 802.11a(20MHz), Back , Middle,10mm

Type: Phone measurement

Date of measurement: 08/18/2021

Measurement duration: 22 minutes 12 seconds

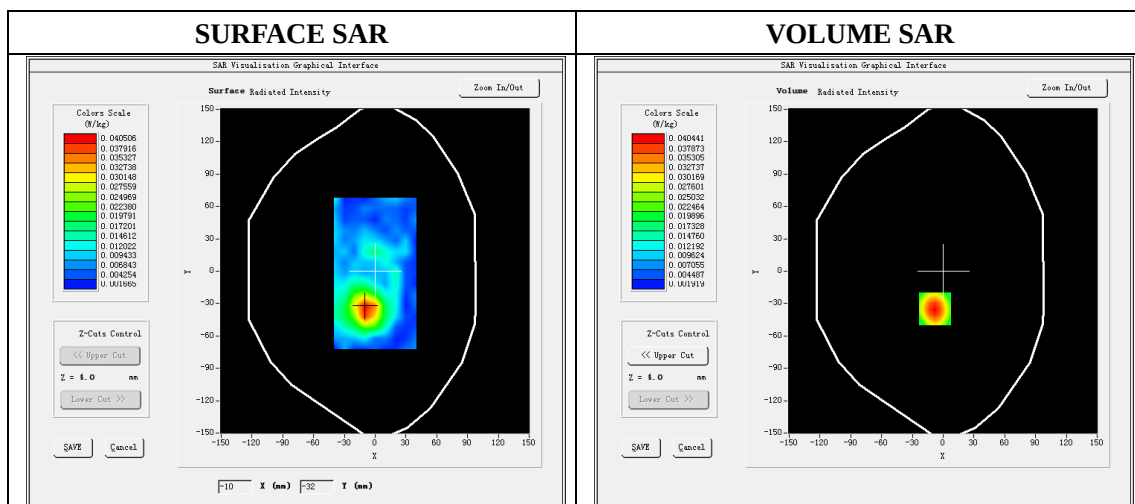
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=4mm,dy=4mm
ZoomScan	7x7x12,dx=4m, dy=4mm, dz=2mm
Phantom	Validation plane
Device Position	Back
Band	WIFI 5G
Channels	149
Signal	OFDM (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_36/20_EPGO348
Frequency (MHz)	5745
Relative permittivity (real part)	48.12
Relative permittivity (imaginary)	18.47
Conductivity (S/m)	5.95
Variation (%)	-1.40
ConvF:	2.34



Maximum location: X=-8.00 Y=-36.00

SAR Peak: 0.08 W/kg

SAR 10g (W/Kg)	0.023681
SAR 1g (W/Kg)	0.043072

