

Appendix B: SAR Measurement results Plots

Plot	Frequency/Mode	Testing Position and Channel	Test Date
1	GSM850	Left Cheek Middle	2020/02/20
2	GSM850/GPRS4Tx	Body Back, Middle ,10mm	2020/02/20
3	GSM1900	Left Cheek Middle	2020/02/22
4	GSM1900/GPRS4Tx	Body Back, Middle ,10mm	2020/02/22
5	GSM1900/GPRS4Tx	Edge C, Low ,10mm	2020/02/22
6	WCDMA1900	Right Cheek Middle	2020/02/22
7	WCDMA1900	Body Back, Middle ,10mm	2020/02/22
8	WCDMA1900	Edge C, Low ,10mm	2020/02/22
9	WCDMA1700	Left Cheek Middle	2020/02/21
10	WCDMA1700	Body Back, Middle ,10mm	2020/02/21
11	WCDMA1700	Edge C, High ,10mm	2020/02/21
12	WCDMA850	Right Cheek Middle	2020/02/20
13	WCDMA850	Body Back, Middle ,10mm	2020/02/20
14	LTE Band2	Left Cheek Middle	2020/02/22
15	LTE Band2	Body Back, Middle ,10mm	2020/02/22
16	LTE Band2	Edge C, Middle ,10mm	2020/02/22
17	LTE Band4	Left Cheek Middle	2020/02/21
18	LTE Band4	Body Back, Middle ,10mm	2020/02/21
19	LTE Band4	Edge C, Low ,10mm	2020/02/21
20	LTE Band5	Left Cheek Middle	2020/02/20
21	LTE Band5	Body Back, Middle ,10mm	2020/02/20
22	LTE Band7	Right Tilt 15° Middle	2020/02/25
23	LTE Band7	Body Back, Middle ,10mm	2020/02/25
24	LTE Band7	Edge C, Middle ,10mm	2020/02/25
25	LTE Band12	Left Cheek Middle	2020/02/19
26	LTE Band12	Body Face, Middle ,10mm	2020/02/19
27	LTE Band12	Edge D, Middle ,10mm	2020/02/19
28	LTE Band17	Right Cheek Middle	2020/02/19
29	LTE Band17	Body Face, Middle ,10mm	2020/02/19
30	LTE Band17	Edge D, Middle ,10mm	2020/02/19
31	LTE Band26	Right Cheek Middle	2020/02/20
32	LTE Band26	Body Back, Middle ,10mm	2020/02/20
33	LTE Band66	Left Cheek Middle	2020/02/21
34	LTE Band66	Body Back, Middle ,10mm	2020/02/21
35	LTE Band66	Edge C, Middle ,10mm	2020/02/21
36	WIFI 2.4G 802.11b	Right Cheek Middle	2020/02/24
37	WIFI 2.4G 802.11b	Body Back, Middle ,10mm	2020/02/24
38	WIFI 5G 802.11a	Left Tilt 15° Middle	2020/02/26



39	WIFI 5G 802.11a	Body Back, Middle ,10mm	2020/02/26
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Plot 1: GSM850, Left Cheek, Middle

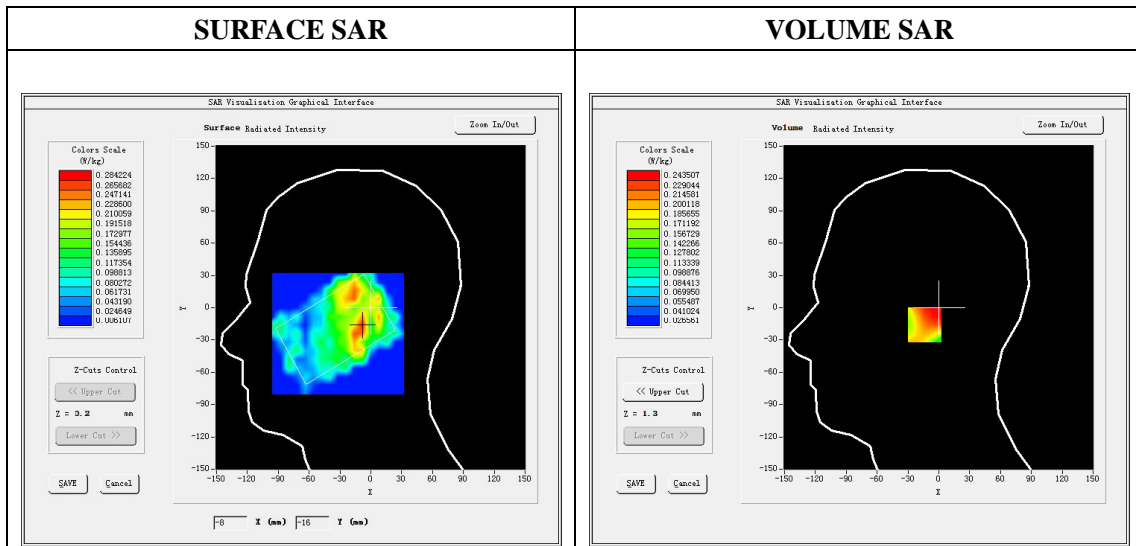
Type: Phone measurement
 Date of measurement: 02/20/2020
 Measurement duration: 22 minutes 02 seconds
 Mobile Phone IMEI number: --

A. Experimental conditions.

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

B. SAR Measurement Results

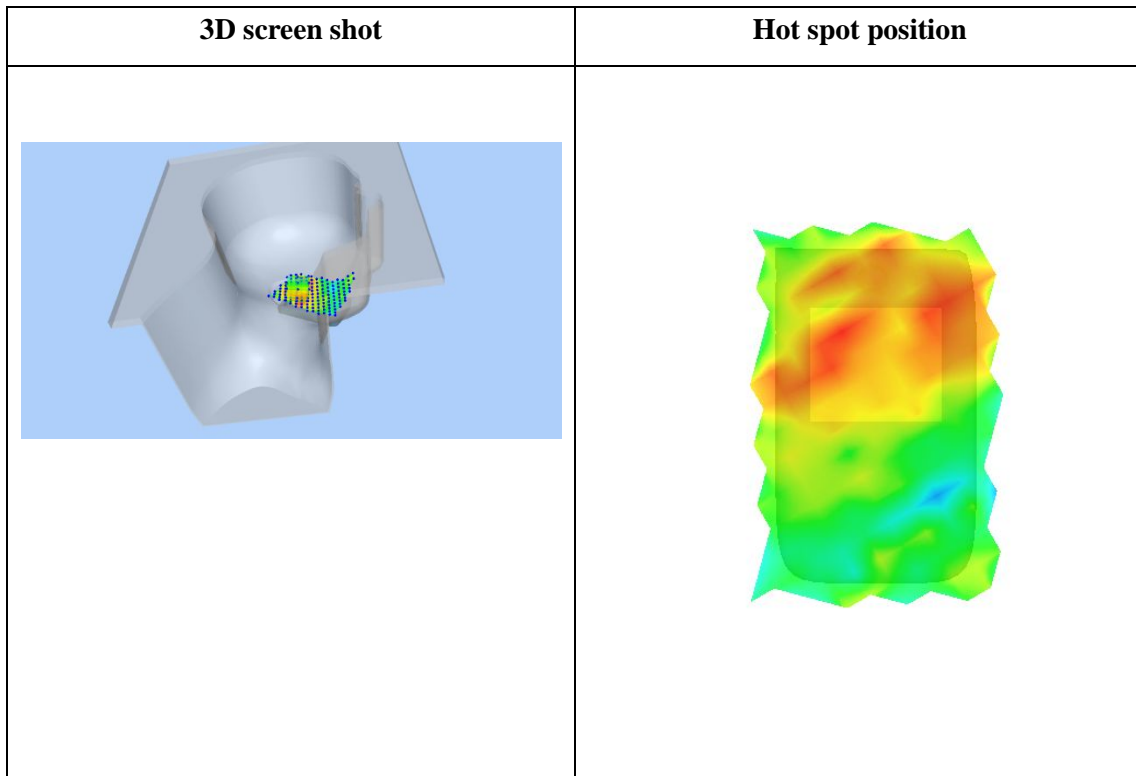
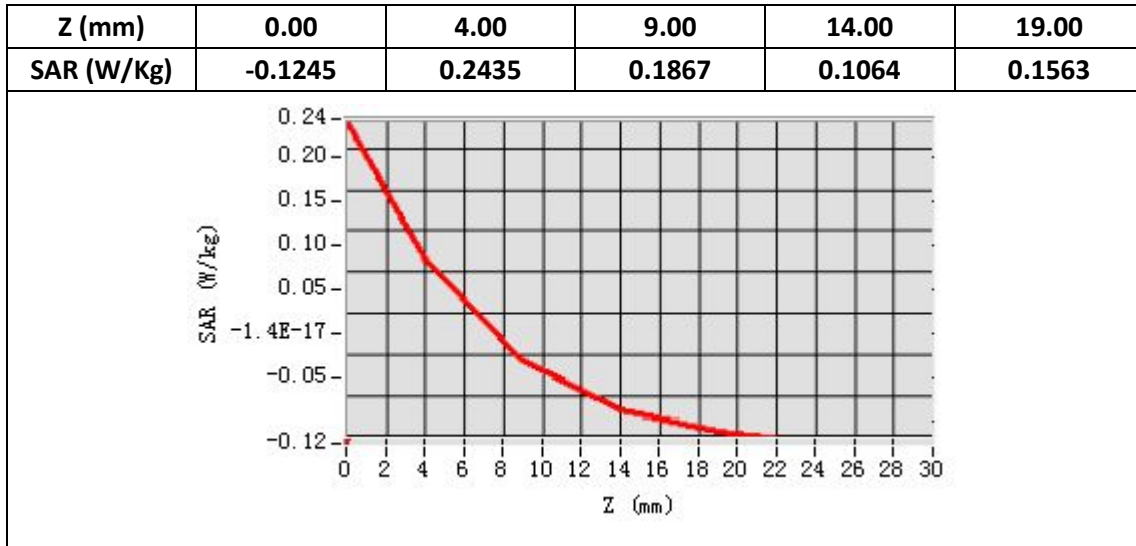
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	836.6
Relative permittivity (real part)	41.56
Relative permittivity (imaginary part)	20.91
Conductivity (S/m)	0.97
Variation (%)	-4.61
ConvF:	1.92



Maximum location: X=-9.00, Y=-16.00

SAR Peak: 0.36W/kg

SAR 10g (W/Kg)	0.174680
SAR 1g (W/Kg)	0.241763



Plot 2: GPRS850, Back, Middle,10mm

Type: Phone measurement

Date of measurement: 02/20/2020

Measurement duration: 22 minutes 03 seconds

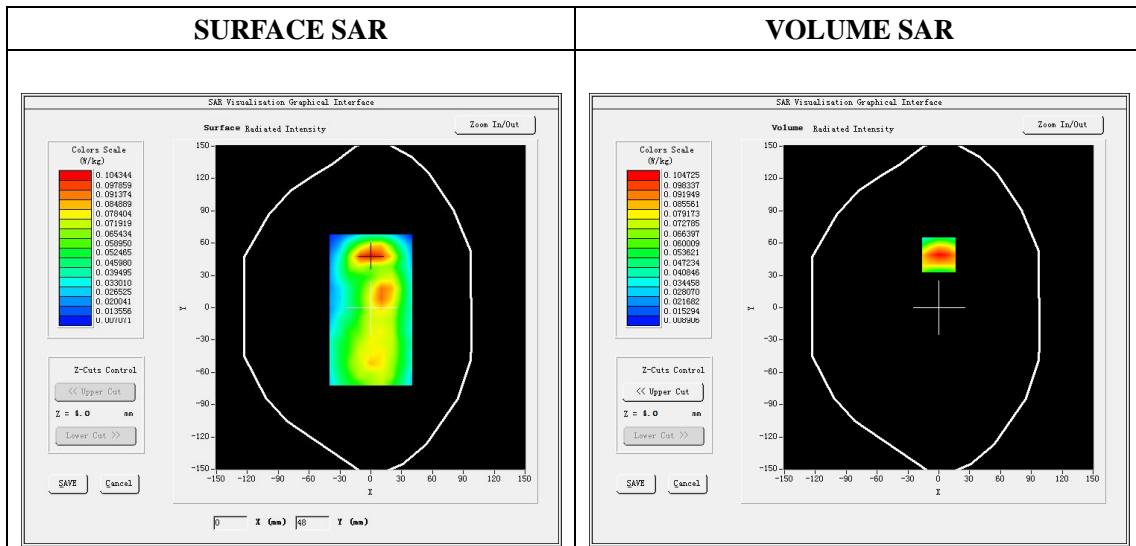
Mobile Phone IMEI number: --

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_27/15_EPG0261
Frequency (MHz)	836.6
Relative permittivity (real part)	55.30
Relative permittivity (imaginary part)	21.34
Conductivity (S/m)	0.99
Variation (%)	0.23
ConvF:	1.99

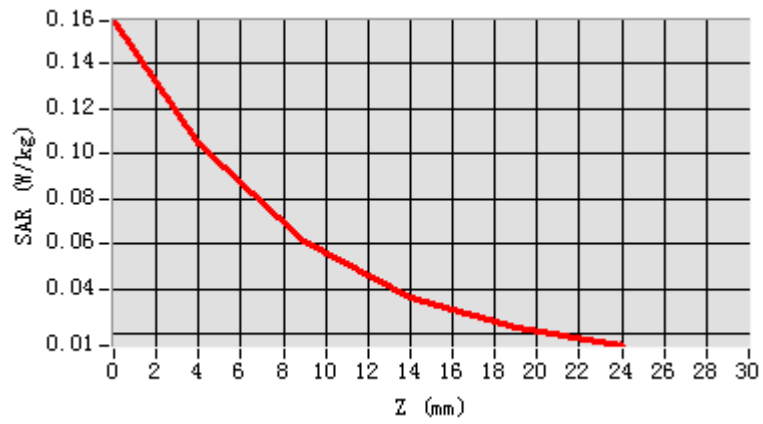


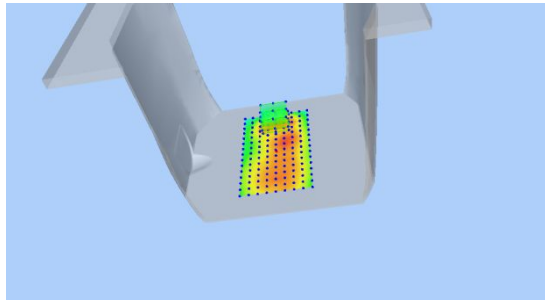
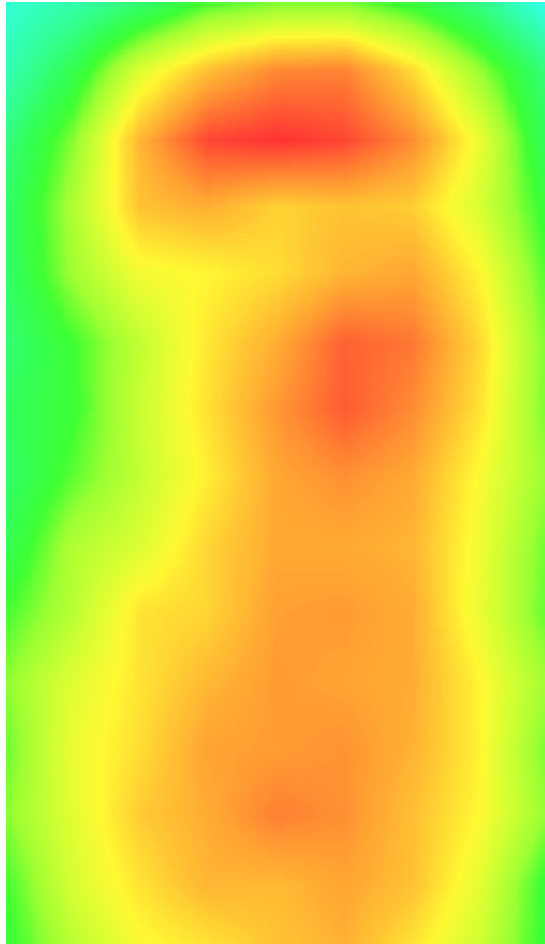
Maximum location: X=0.00, Y=49.00

SAR Peak: 0.16 W/kg

SAR 10g (W/Kg)	0.058692
SAR 1g (W/Kg)	0.100262

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.1590	0.1047	0.0613	0.0367	0.0233



3D screen shot	Hot spot position
	

Plot 3: GSM1900, Left Cheek, Middle

Type: Phone measurement

Date of measurement: 02/22/2020

Measurement duration: 22 minutes 01 seconds

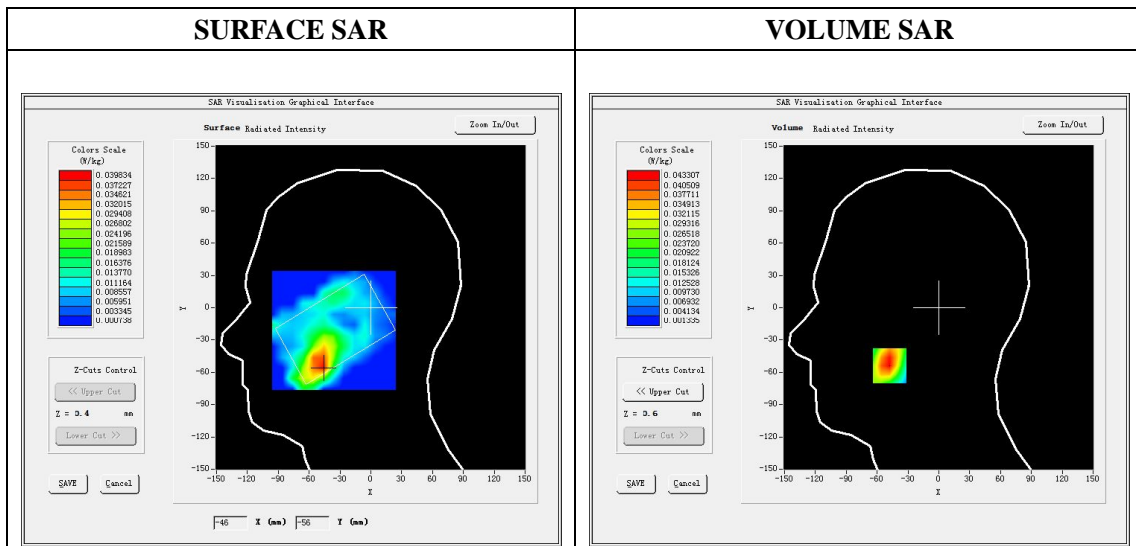
Mobile Phone IMEI number: --

A. Experimental conditions.

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

B. SAR Measurement Results

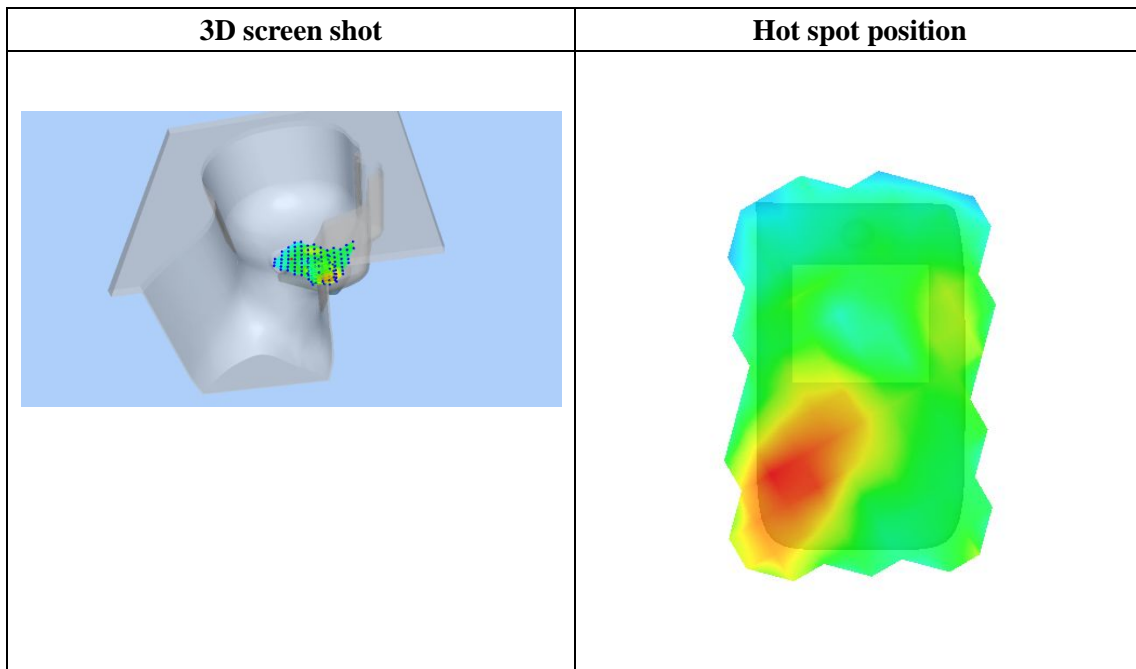
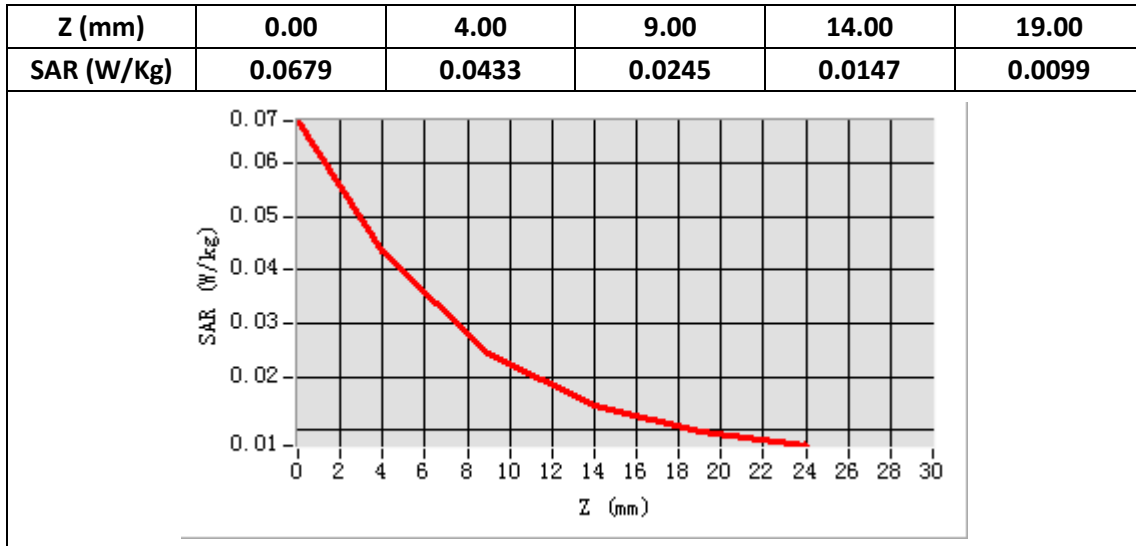
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1880
Relative permittivity (real part)	40.33
Relative permittivity (imaginary part)	13.26
Conductivity (S/m)	1.40
Variation (%)	-3.17
ConvF:	2.34



Maximum location: X=-48.00, Y=-54.00

SAR Peak: 0.07 W/kg

SAR 10g (W/Kg)	0.024594
SAR 1g (W/Kg)	0.041847



Plot 4: GPRS1900, Back, Middle ,10mm

Type: Phone measurement

Date of measurement: 02/22/2020

Measurement duration: 22 minutes 04 seconds

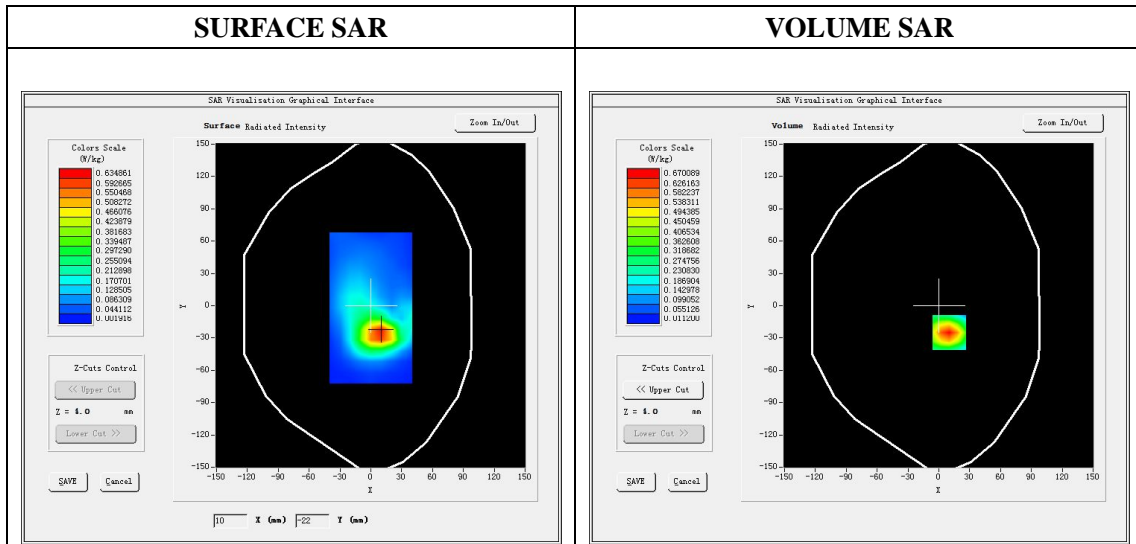
Mobile Phone IMEI number: --

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_27/15_EPG0261
Frequency (MHz)	1880
Relative permittivity (real part)	53.29
Relative permittivity (imaginary part)	14.40
Conductivity (S/m)	1.52
Variation (%)	-1.11
ConvF:	2.39

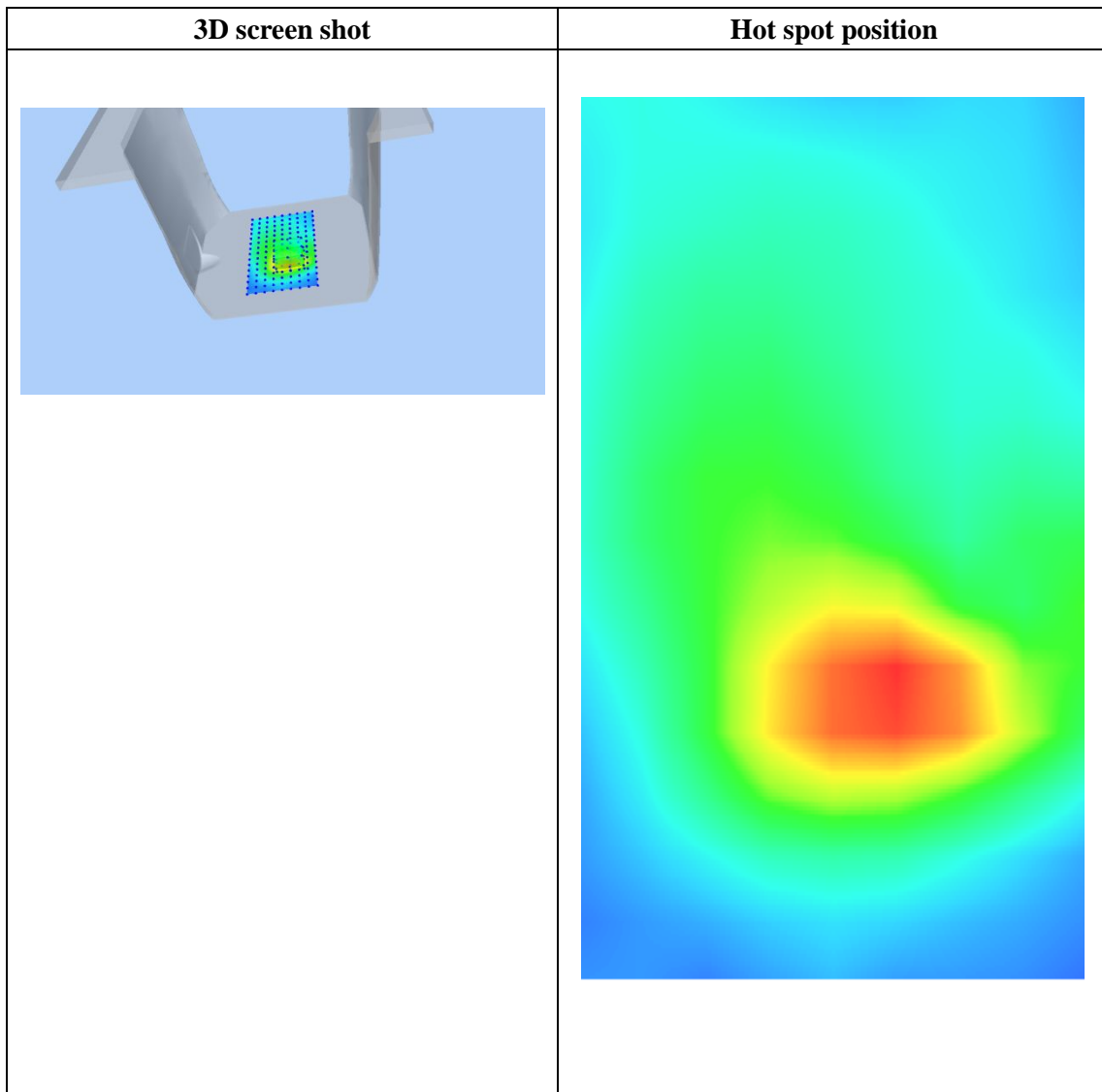
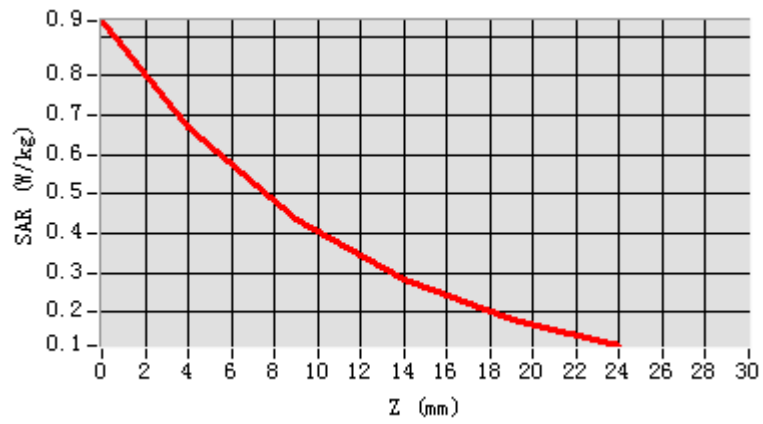


Maximum location: X=10.00, Y=-25.00

SAR Peak: 0.94W/kg

SAR 10g (W/Kg)	0.354129
SAR 1g (W/Kg)	0.620878

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.9385	0.6701	0.4341	0.2809	0.1828



Plot 5: GPRS1900, Edge C, Low ,10mm

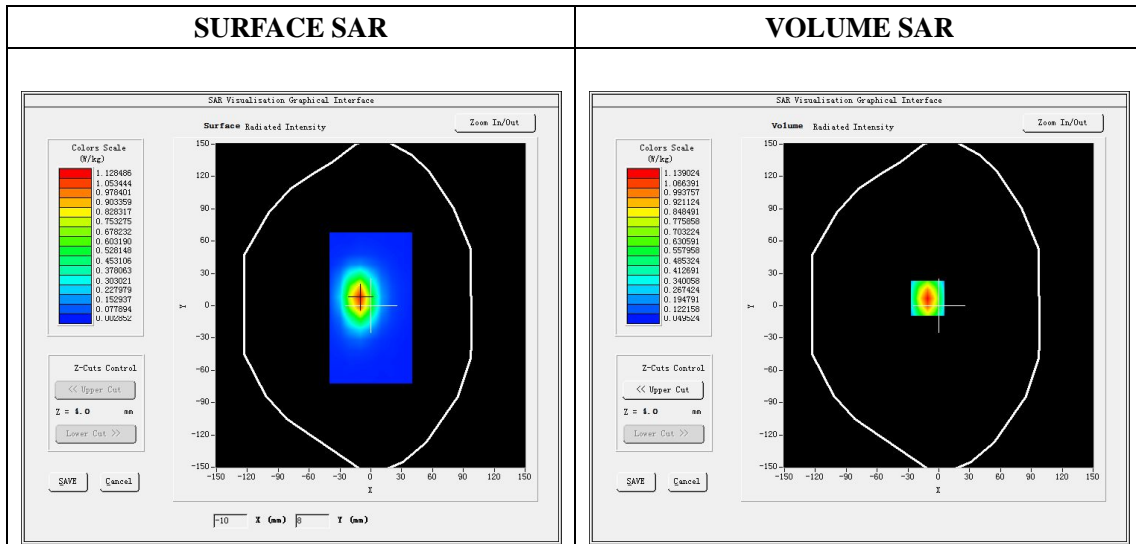
Type: Phone measurement
 Date of measurement: 02/22/2020
 Measurement duration: 22 minutes 07 seconds
 Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Edge C
Band	GPRS1900_4Tx
Channels	512
Signal	GPRS(Duty cycle: 1:2)

B. SAR Measurement Results

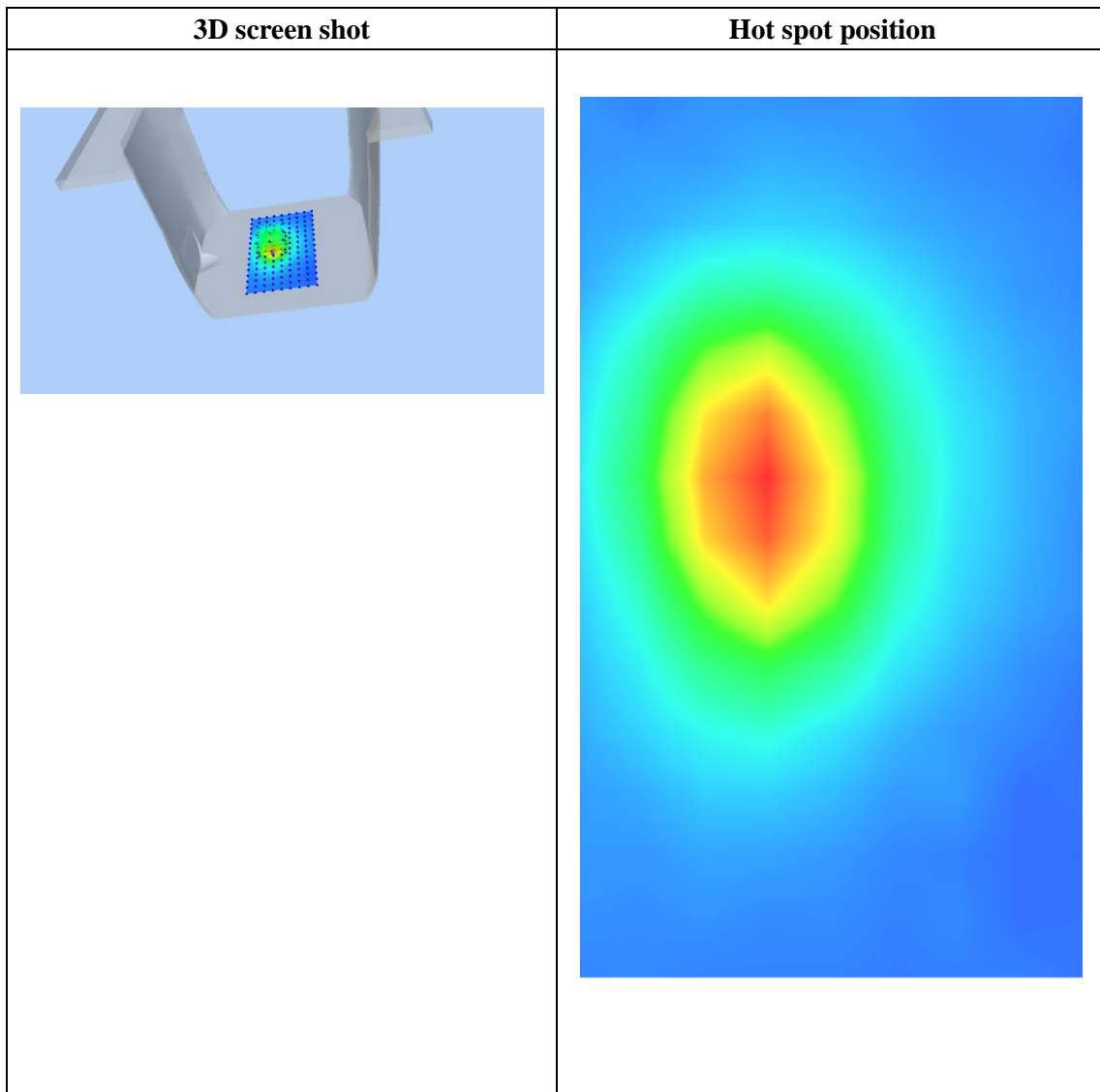
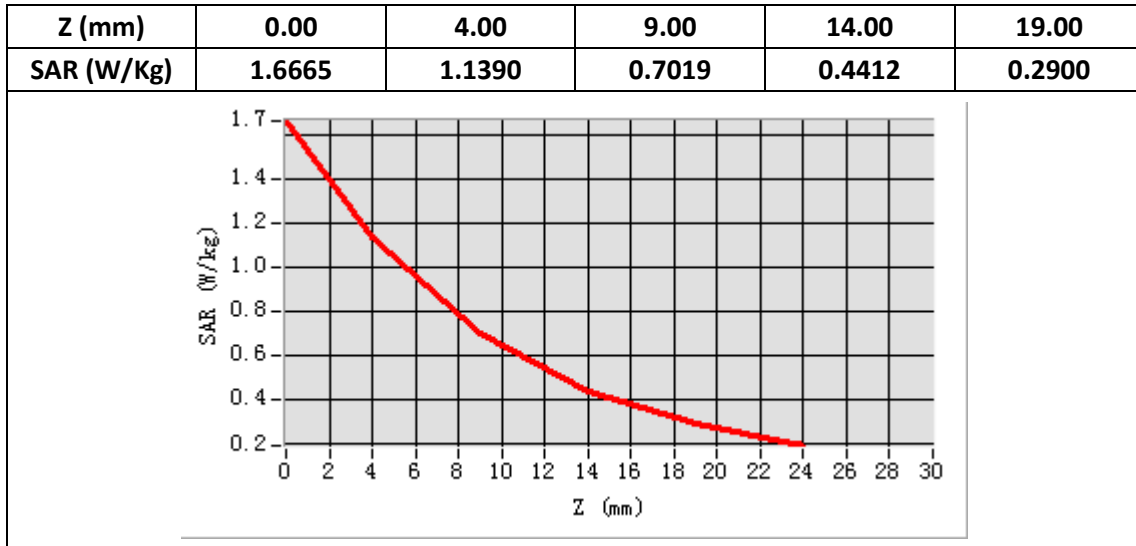
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1850.2
Relative permittivity (real part)	53.29
Relative permittivity (imaginary part)	14.40
Conductivity (S/m)	1.52
Variation (%)	-0.25
ConvF:	2.39



Maximum location: X=-11.00, Y=7.00

SAR Peak: 1.67W/kg

SAR 10g (W/Kg)	0.572917
SAR 1g (W/Kg)	1.047186



Plot 6: WCDMA1900, Right Cheek, Middle,10mm

Type: Phone measurement

Date of measurement: 02/22/2020

Measurement duration: 22 minutes 05 seconds

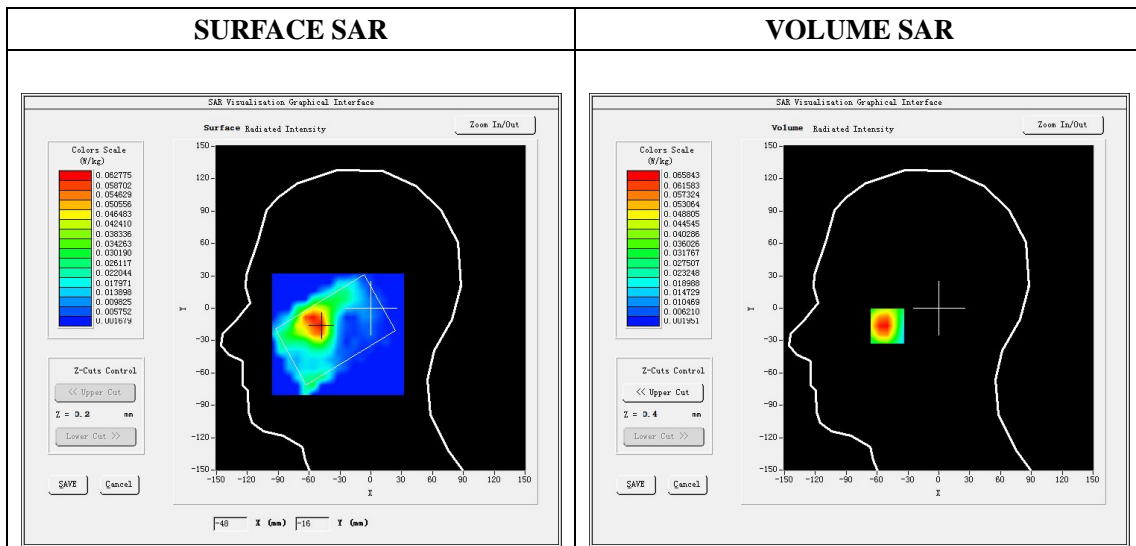
Mobile Phone IMEI number: --

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

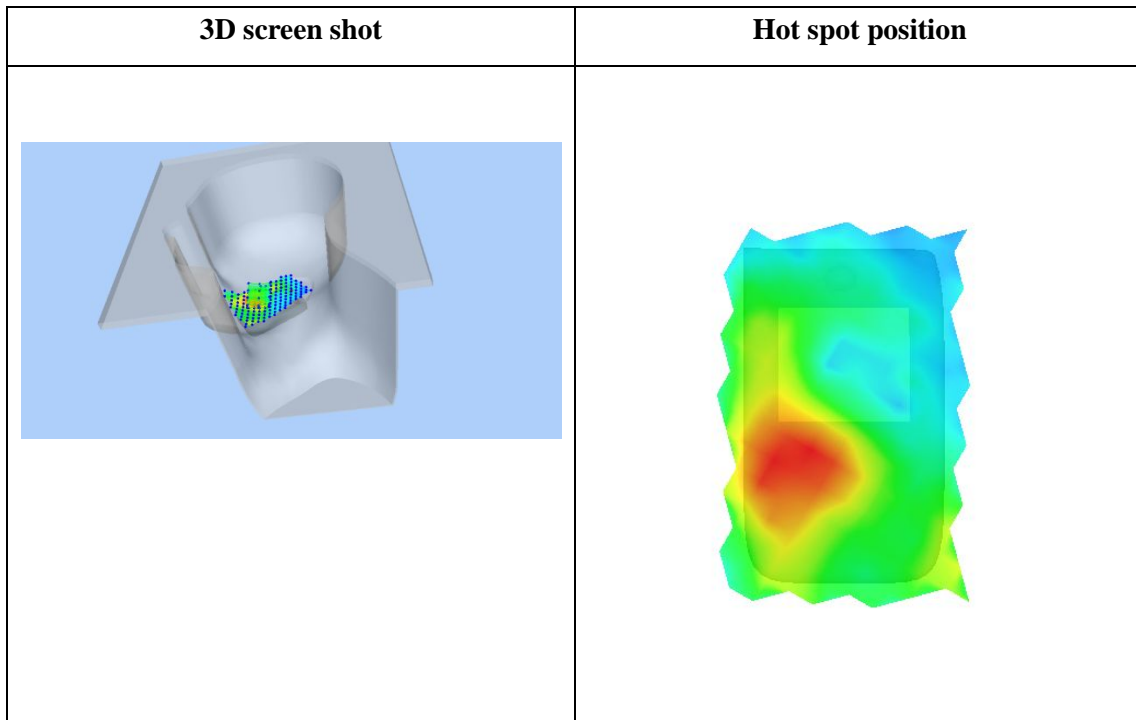
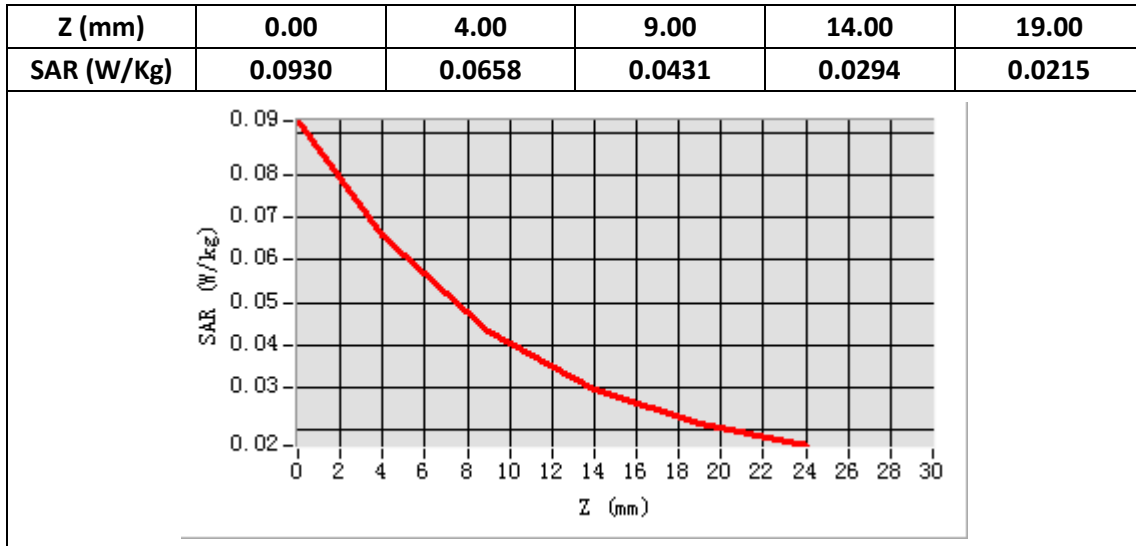
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1880
Relative permittivity (real part)	40.33
Relative permittivity (imaginary)	13.26
Conductivity (S/m)	1.40
Variation (%)	-3.50
ConvF:	2.34



Maximum location: X=-50.00, Y=-16.00

SAR Peak: 0.10W/kg

SAR 10g (W/Kg)	0.038206
SAR 1g (W/Kg)	0.063641



Plot 7: WCDMA1900, Back, Middle,10mm

Type: Phone measurement

Date of measurement: 02/22/2020

Measurement duration: 22 minutes 06 seconds

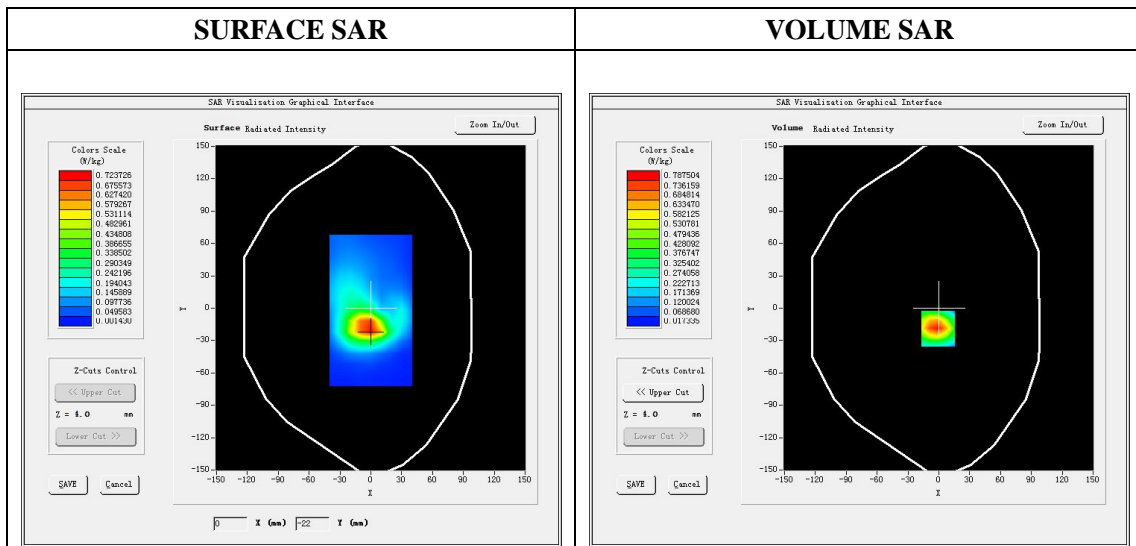
Mobile Phone IMEI number: --

A. Experimental conditions.

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

B. SAR Measurement Results

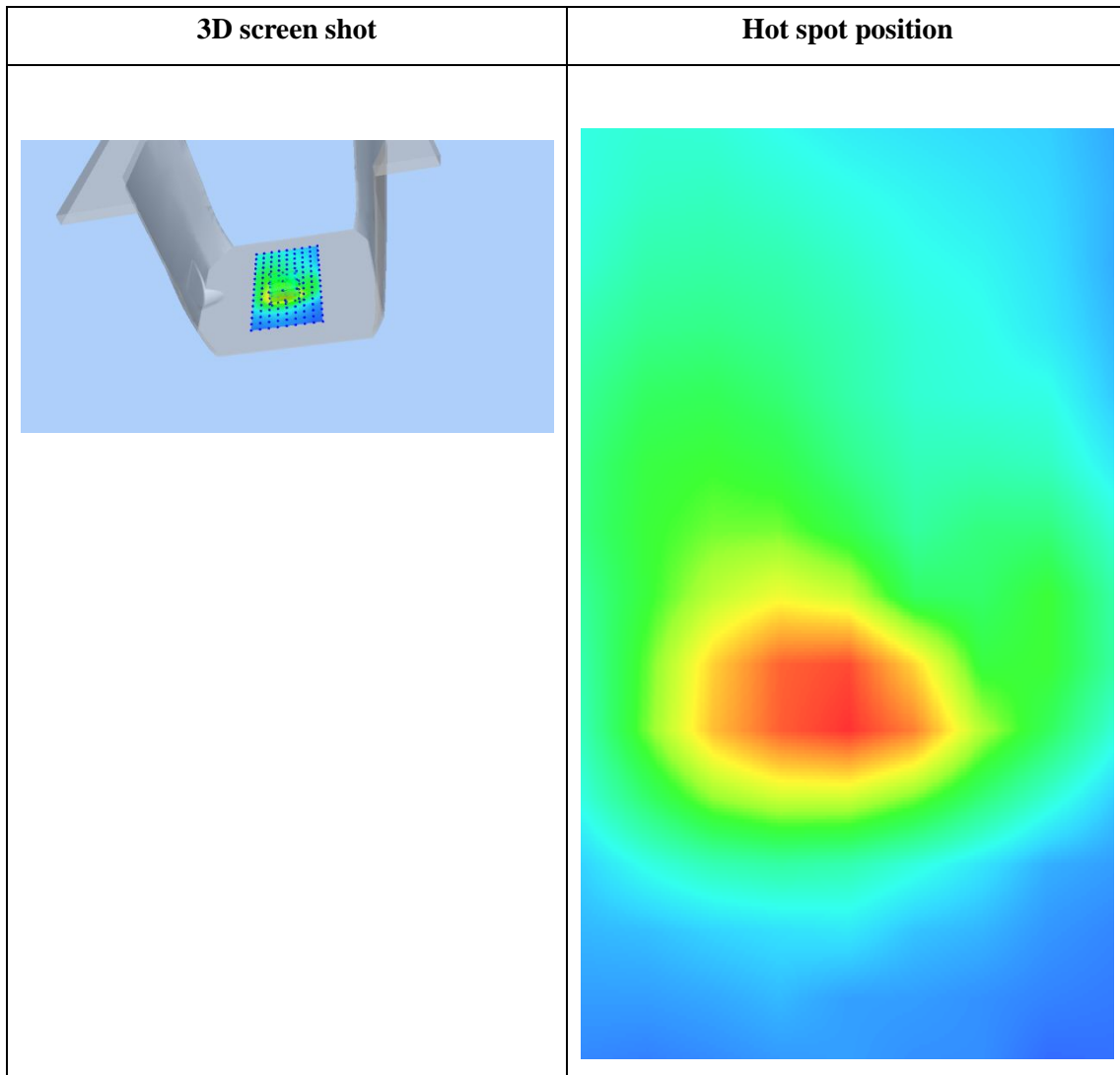
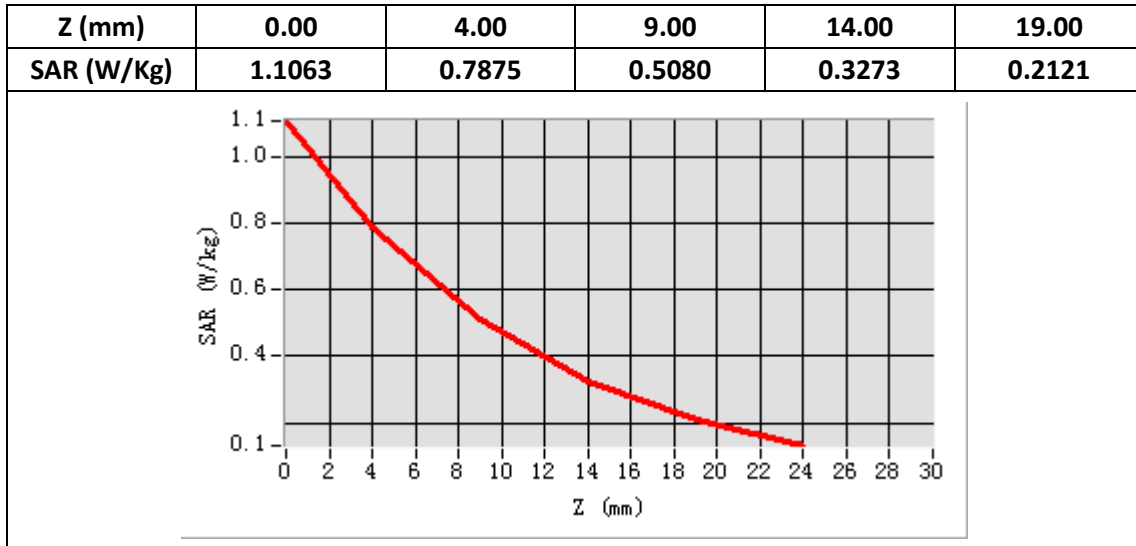
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1880
Relative permittivity (real part)	53.29
Relative permittivity (imaginary)	14.40
Conductivity (S/m)	1.52
Variation (%)	-2.67
ConvF:	2.39



Maximum location: X=-1.00, Y=-19.00

SAR Peak: 1.12W/kg

SAR 10g (W/Kg)	0.414826
SAR 1g (W/Kg)	0.734549



Plot 8: WCDMA1900, Edge C, Low,10mm

Type: Phone measurement

Date of measurement: 02/22/2020

Measurement duration: 22 minutes 08 seconds

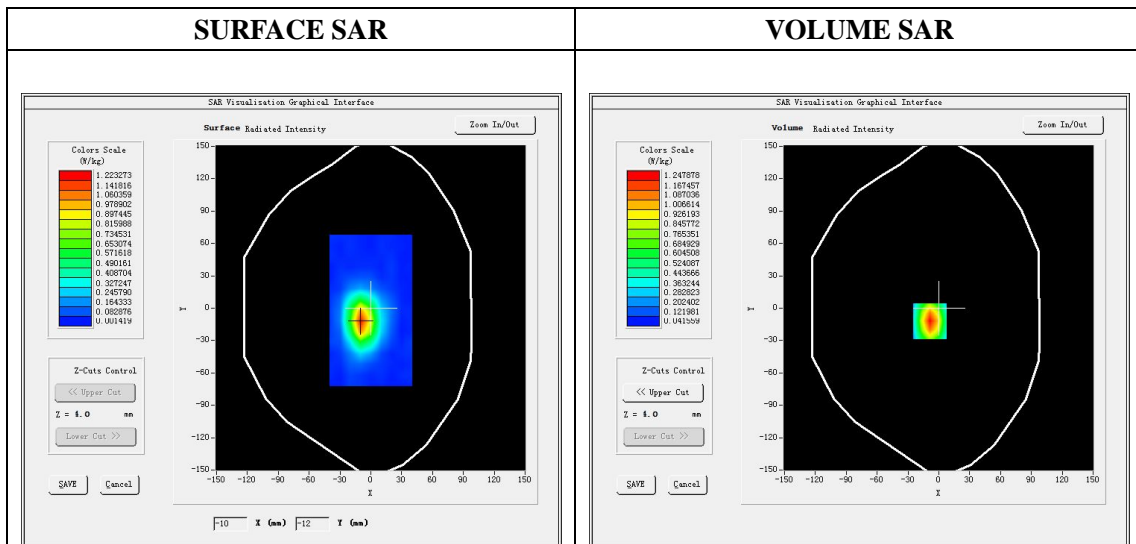
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Edge C
Band	Band2_WCDMA1900
Channels	9262
Signal	WCDMA (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1850.2
Relative permittivity (real part)	53.29
Relative permittivity (imaginary)	14.40
Conductivity (S/m)	1.52
Variation (%)	-0.96
ConvF:	2.39

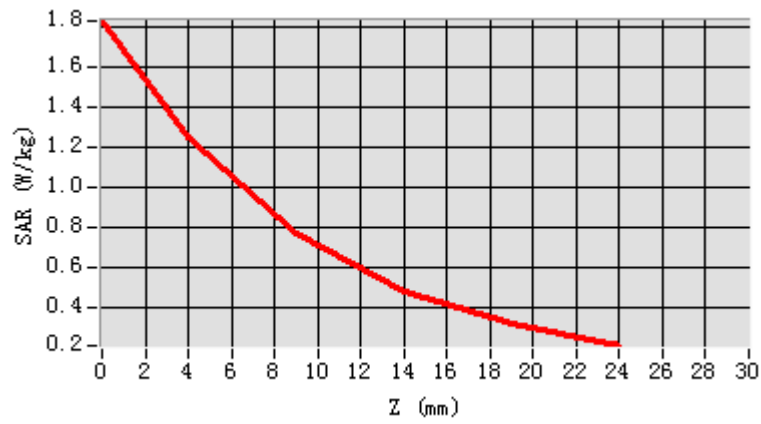


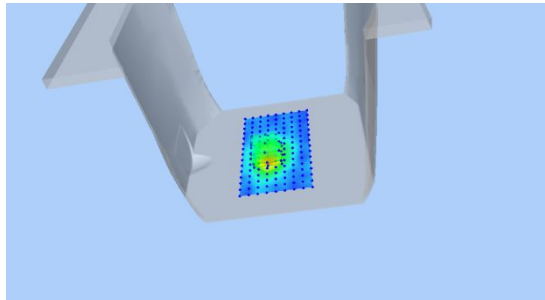
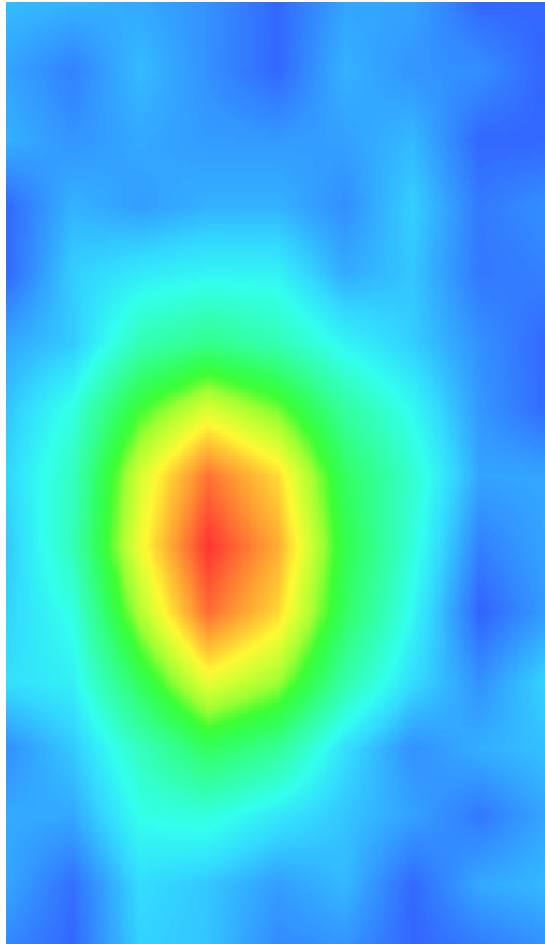
Maximum location: X=-9.00, Y=-12.00

SAR Peak: 1.83W/kg

SAR 10g (W/Kg)	0.631893
SAR 1g (W/Kg)	1.149267

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.8256	1.2479	0.7697	0.4850	0.3204



3D screen shot	Hot spot position
	

Plot 9: WCDMA1700, Left Cheek, Middle

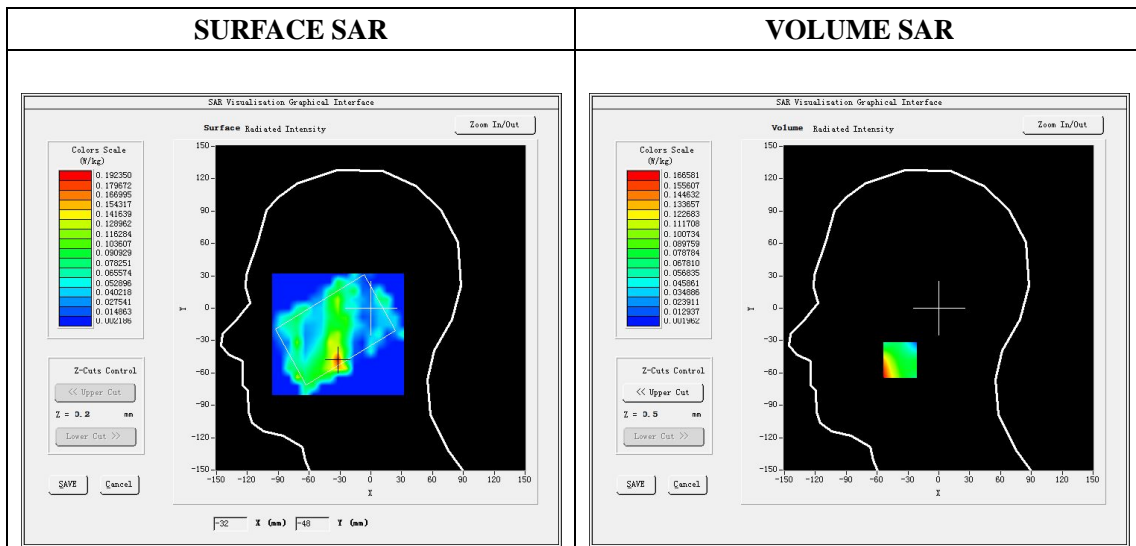
Type: Phone measurement
 Date of measurement: 02/21/2020
 Measurement duration: 22 minutes 10 seconds
 Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Left Cheek
Band	Band2_WCDMA1700
Channels	1413
Signal	WCDMA (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1732.6
Relative permittivity (real part)	40.42
Relative permittivity (imaginary)	13.80
Conductivity (S/m)	1.38
Variation (%)	-4.51
ConvF:	2.14

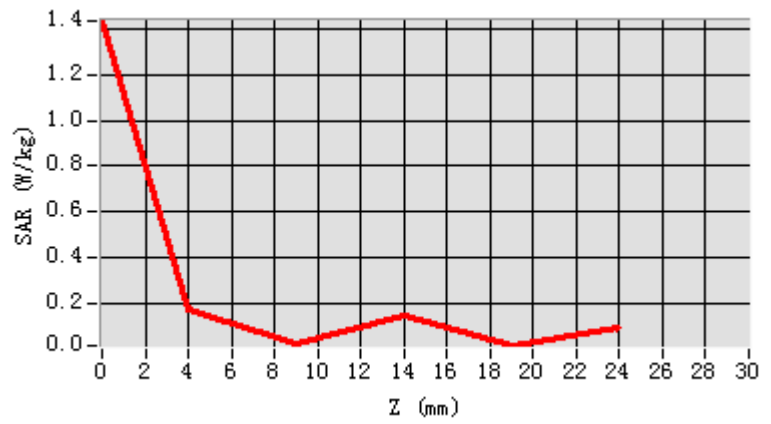


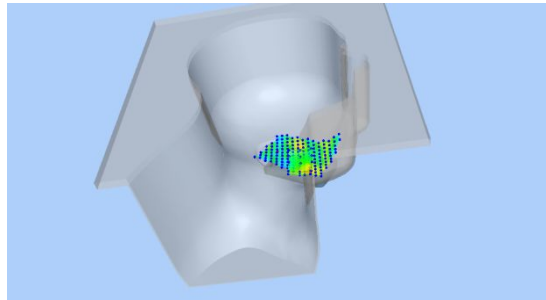
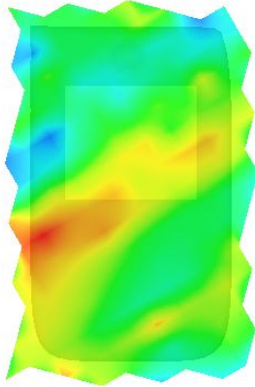
Maximum location: X=-33.00, Y=-48.00

SAR Peak: 0.24W/kg

SAR 10g (W/Kg)	0.083579
SAR 1g (W/Kg)	0.138638

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.4355	0.1666	0.0228	0.1420	0.0112



3D screen shot	Hot spot position
	

Plot 10: WCDMA1700, Back, Middle,10mm

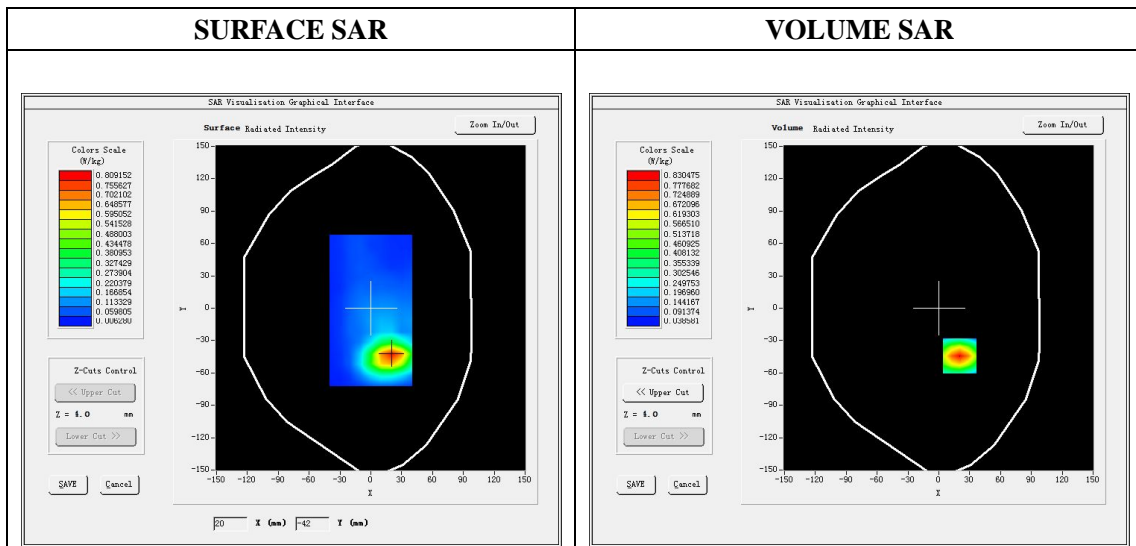
Type: Phone measurement
 Date of measurement: 02/21/2020
 Measurement duration: 22 minutes 09 seconds
 Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back
Band	Band2_WCDMA1700
Channels	1413
Signal	WCDMA (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1732.6
Relative permittivity (real part)	53.37
Relative permittivity (imaginary)	15.00
Conductivity (S/m)	1.50
Variation (%)	-1.10
ConvF:	2.22

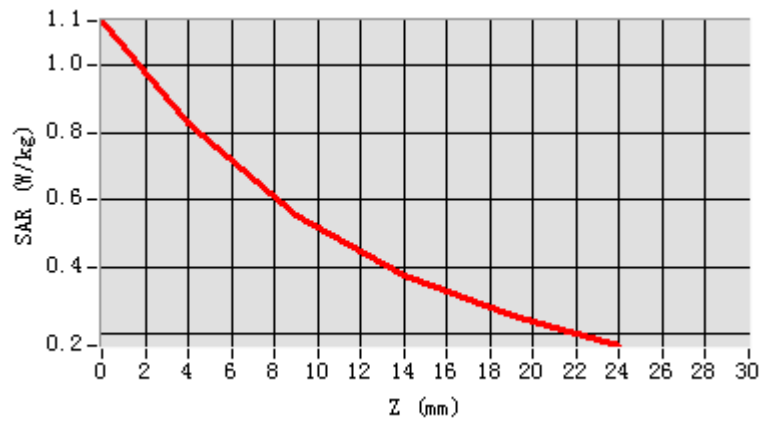


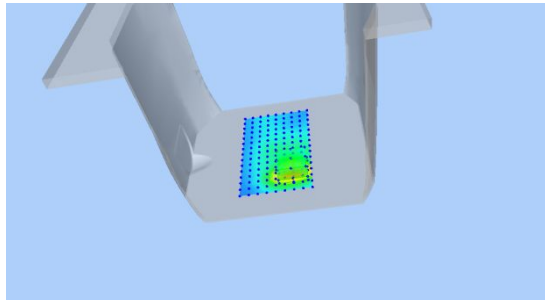
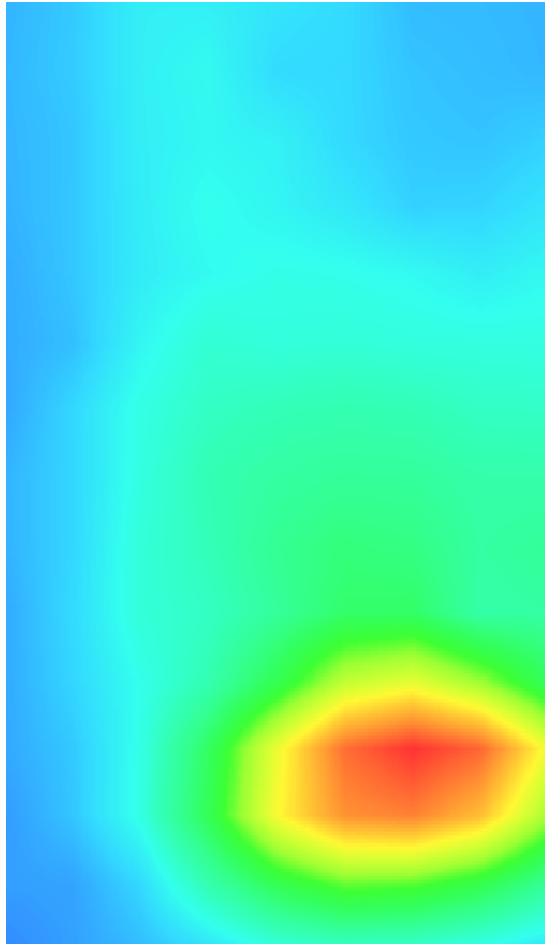
Maximum location: X=20.00, Y=-44.00

SAR Peak: 1.13W/kg

SAR 10g (W/Kg)	0.445435
SAR 1g (W/Kg)	0.766145

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.1342	0.8305	0.5573	0.3746	0.2534



3D screen shot	Hot spot position
	

Plot 11: WCDMA1700, Edge C, High,10mm

Type: Phone measurement

Date of measurement: 02/21/2020

Measurement duration: 22 minutes 13 seconds

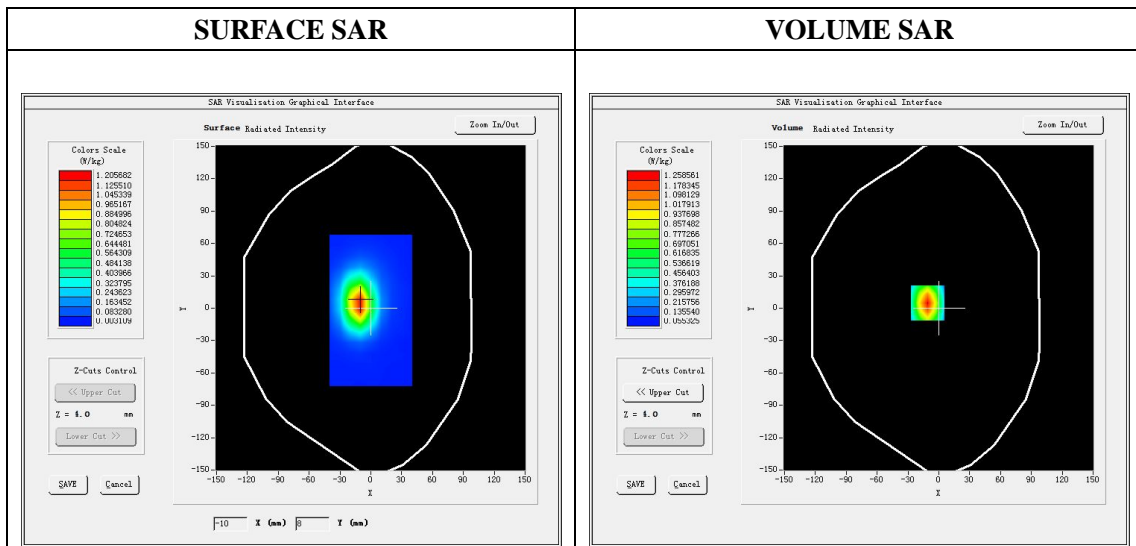
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Edge C
Band	Band2_WCDMA1700
Channels	1513
Signal	WCDMA (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1752.6
Relative permittivity (real part)	53.37
Relative permittivity (imaginary)	15.00
Conductivity (S/m)	1.50
Variation (%)	-0.68
ConvF:	2.22

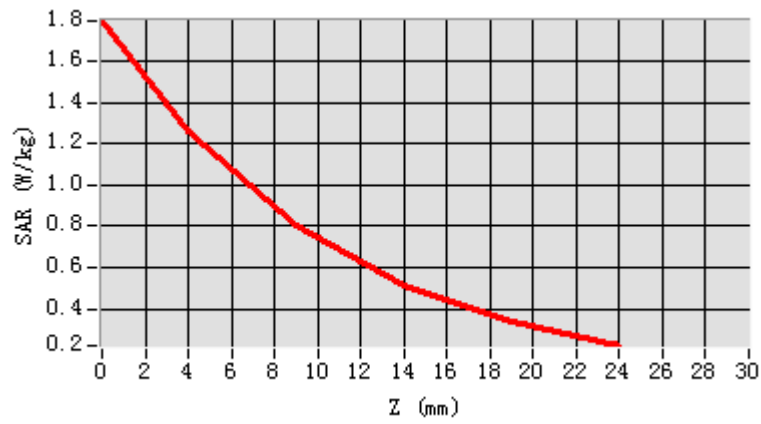


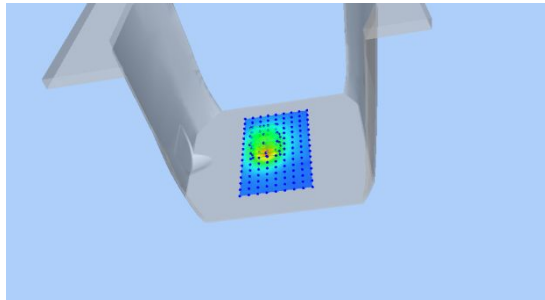
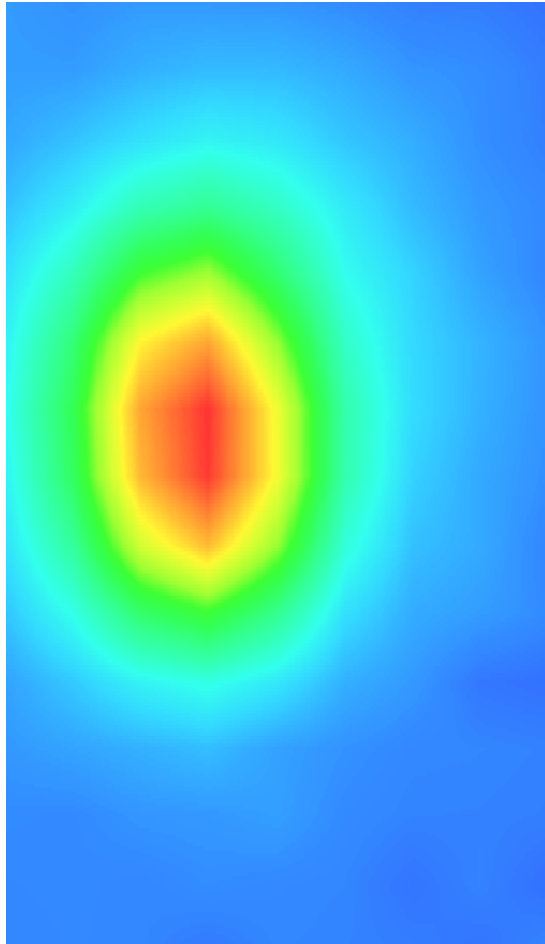
Maximum location: X=-11.00, Y=5.00

SAR Peak: 1.80W/kg

SAR 10g (W/Kg)	0.644134
SAR 1g (W/Kg)	1.155142

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.7965	1.2586	0.7994	0.5136	0.3391



3D screen shot	Hot spot position
	

Plot 12: WCDMA850, Right Cheek, Middle

Type: Phone measurement

Date of measurement: 02/20/2020

Measurement duration: 22 minutes 11 seconds

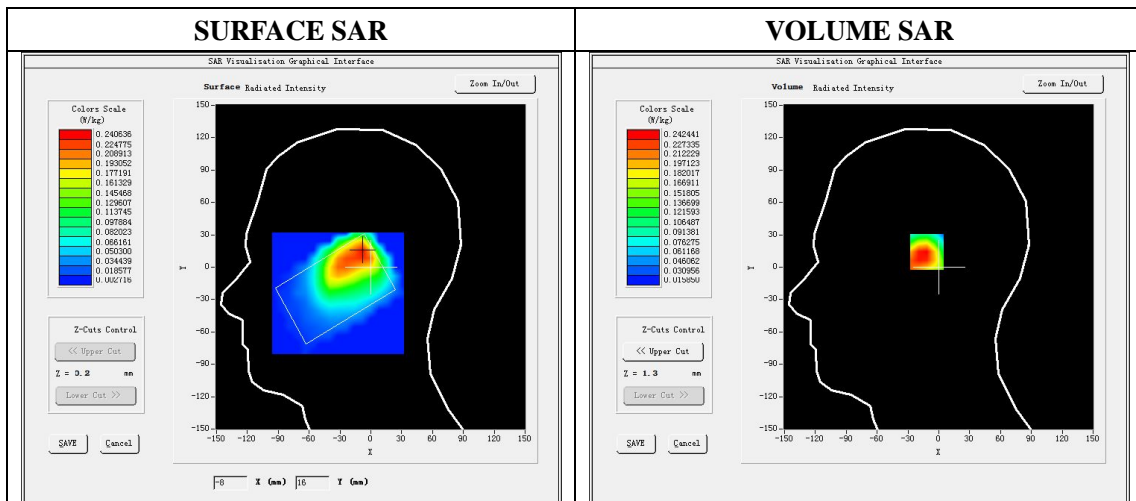
Mobile Phone IMEI number: --

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

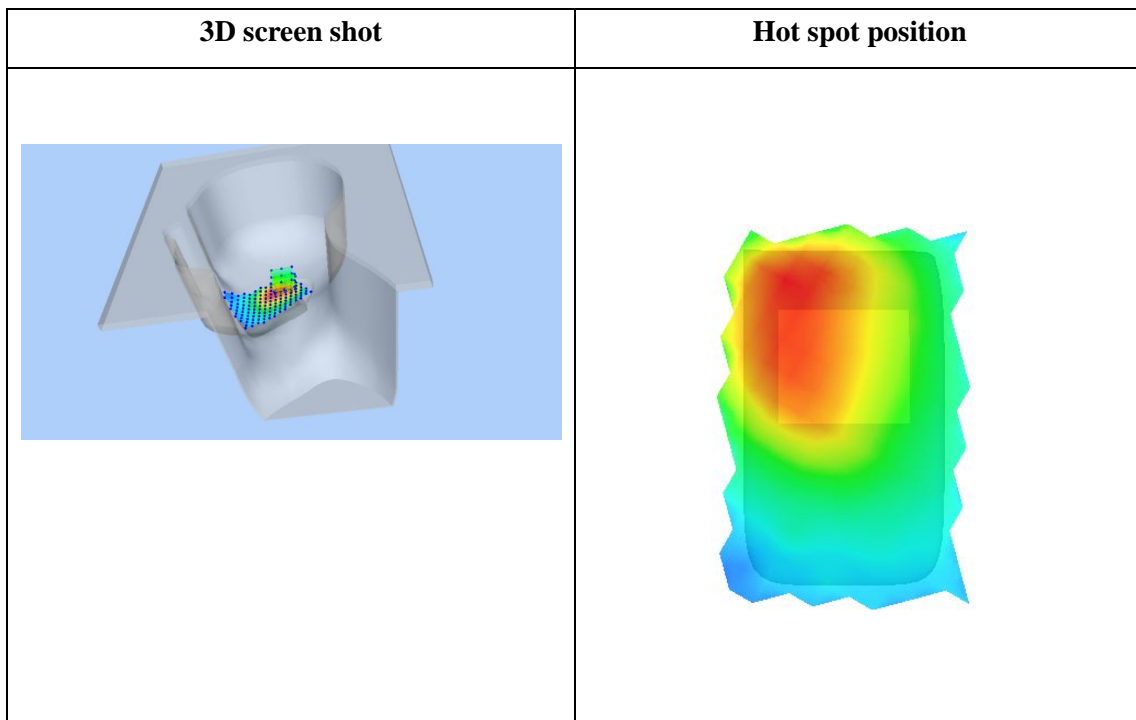
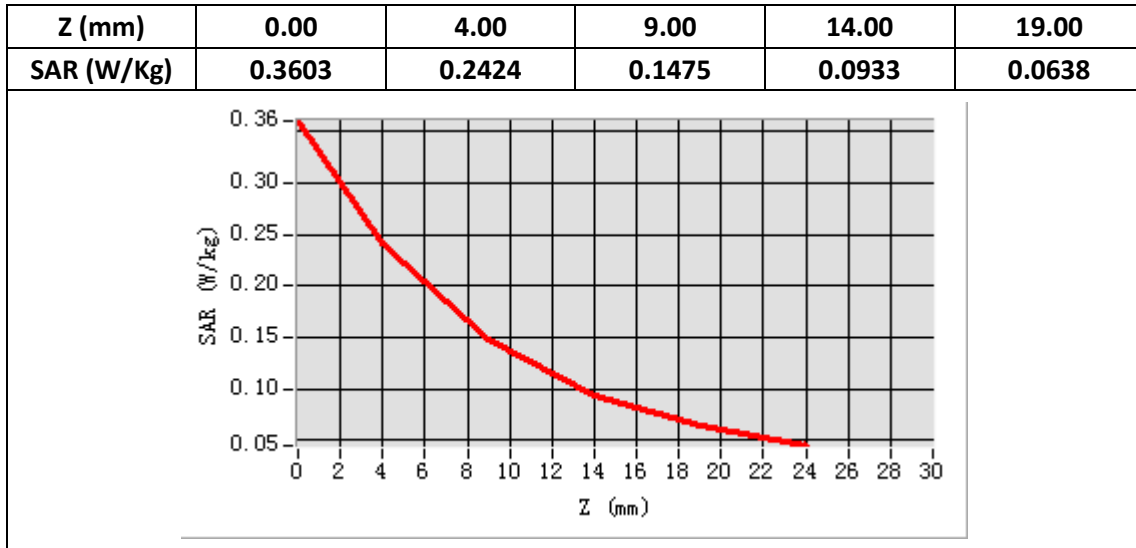
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	836.6
Relative permittivity (real part)	41.56
Relative permittivity (imaginary)	20.91
Conductivity (S/m)	0.97
Variation (%)	-0.09
ConvF:	1.92



Maximum location: X=-9.00, Y=15.00

SAR Peak: 0.37W/kg

SAR 10g (W/Kg)	0.150505
SAR 1g (W/Kg)	0.239068



Plot 13: WCDMA850, Back, Middle,10mm

Type: Phone measurement

Date of measurement: 02/20/2020

Measurement duration: 22 minutes 12 seconds

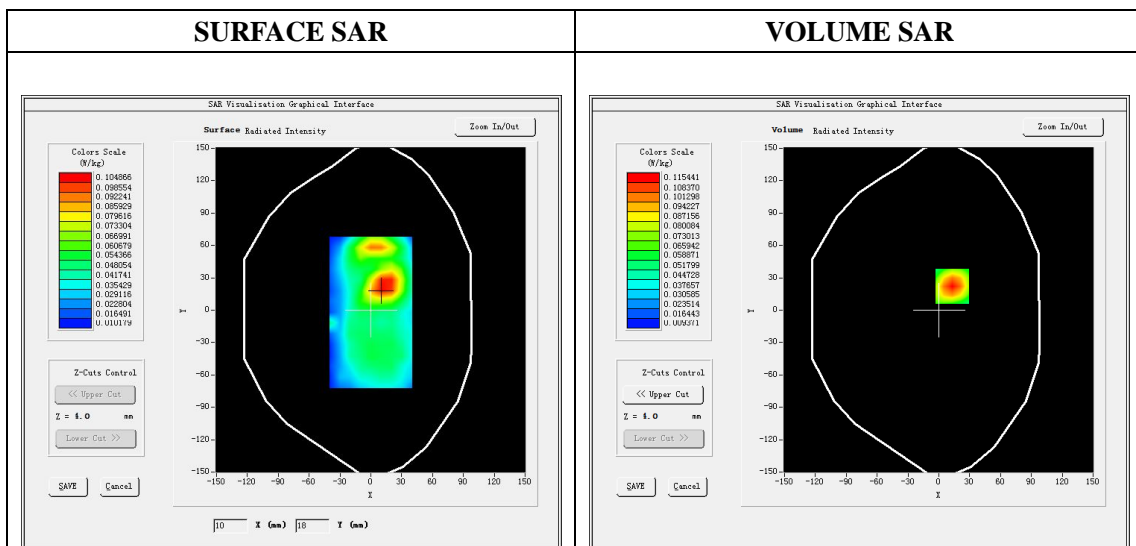
Mobile Phone IMEI number: --

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

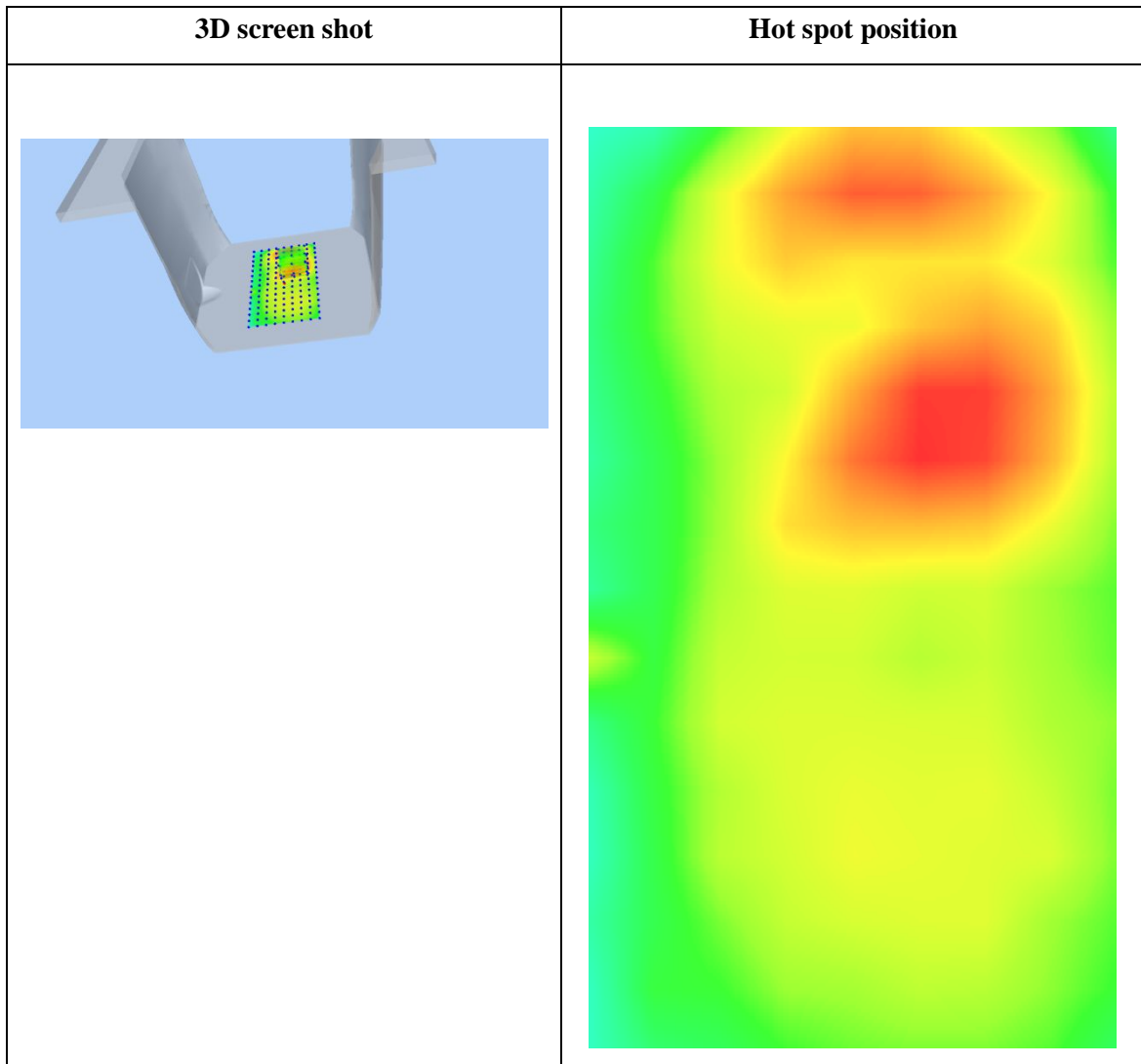
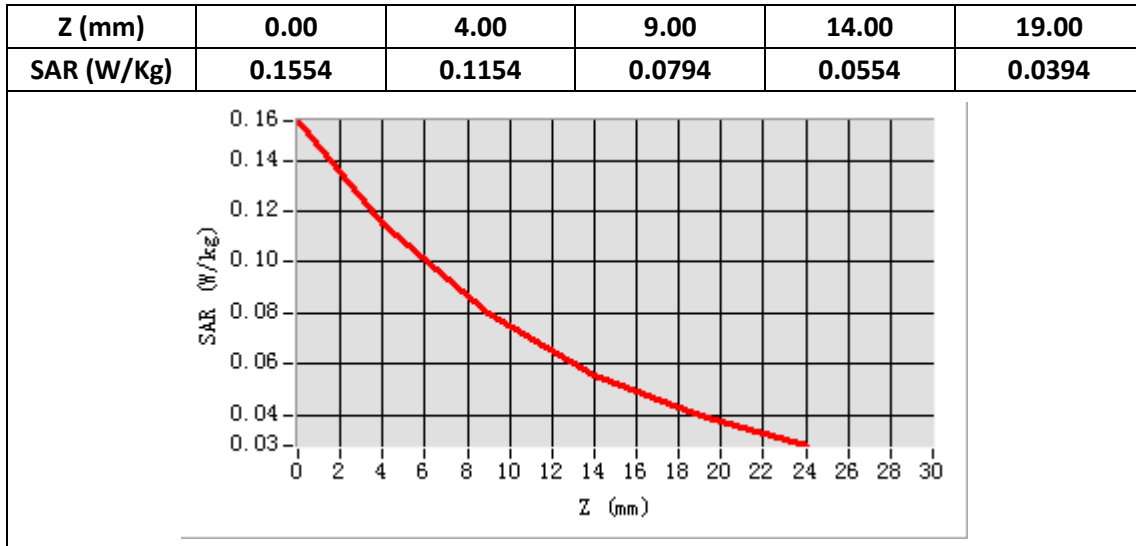
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	836.6
Relative permittivity (real part)	55.30
Relative permittivity (imaginary)	21.34
Conductivity (S/m)	0.99
Variation (%)	-3.20
ConvF:	1.99



Maximum location: X=13.00, Y=22.00

SAR Peak: 0.16W/kg

SAR 10g (W/Kg)	0.070394
SAR 1g (W/Kg)	0.110558



Plot 14: LTE Band2, 20MHz, Left Cheek, Middle

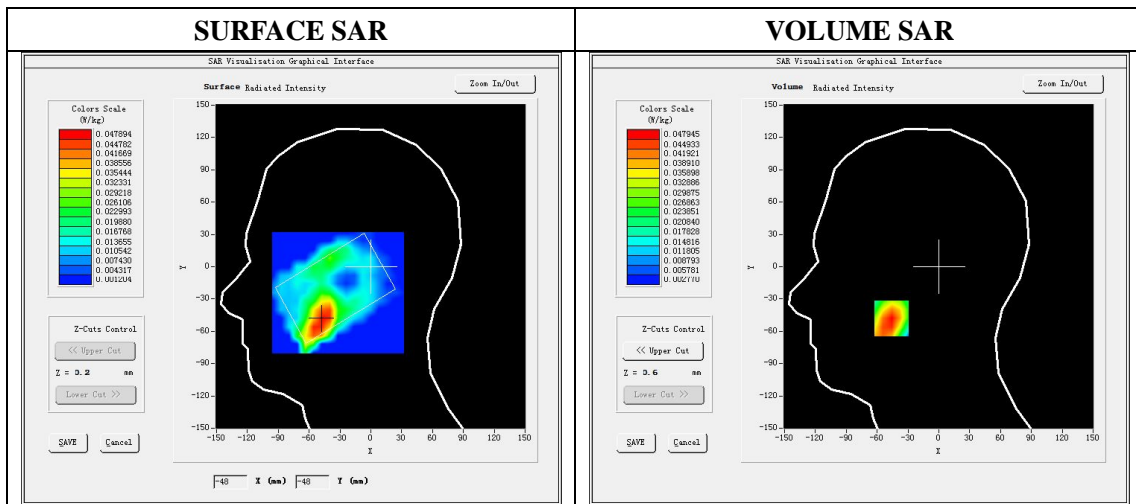
Type: Phone measurement
 Date of measurement: 02/22/2020
 Measurement duration: 22 minutes 17 econds
 Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Left Cheek
Band	LTE Band 2
Channels	18900
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

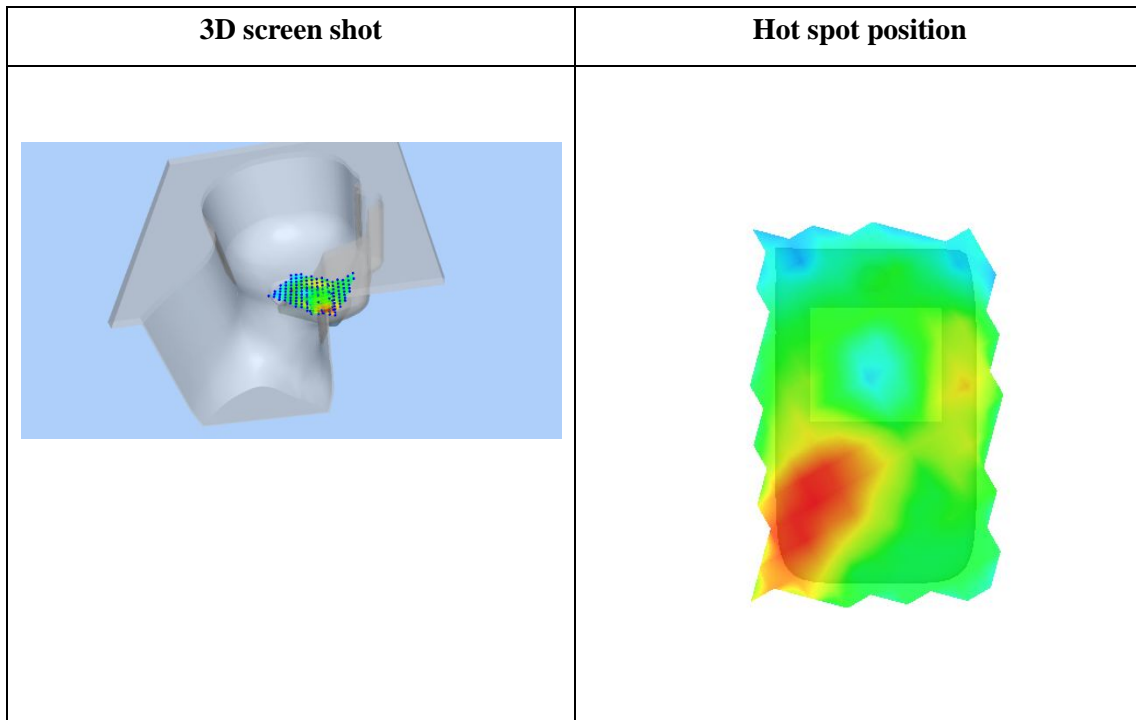
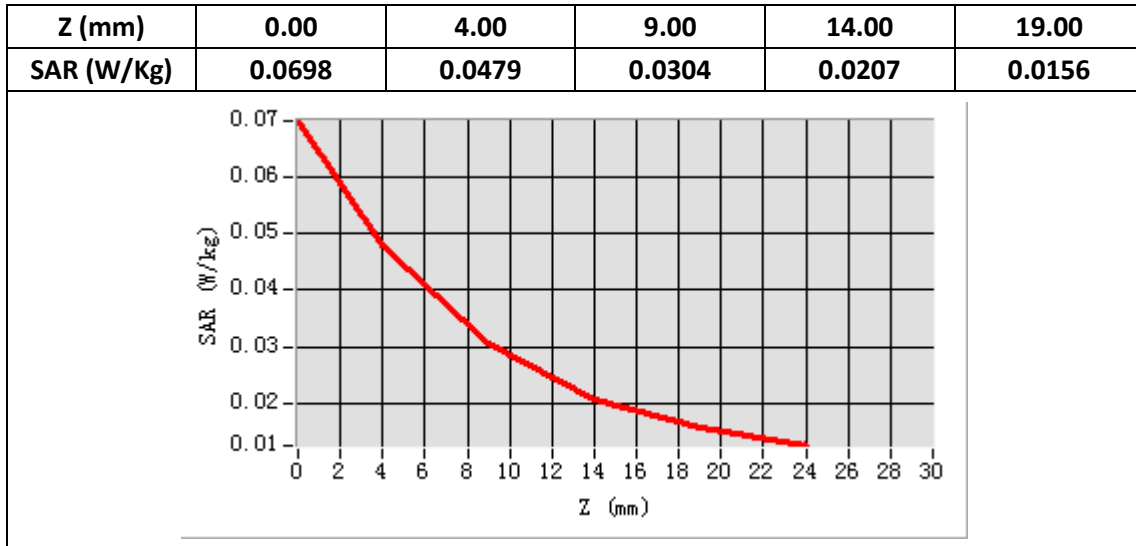
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1880
Relative permittivity (real part)	40.33
Relative permittivity (imaginary)	13.26
Conductivity (S/m)	1.40
Variation (%)	3.49
ConvF:	2.34



Maximum location: X=-46.00, Y=-48.00

SAR Peak: 0.07 W/kg

SAR 10g (W/Kg)	0.028243
SAR 1g (W/Kg)	0.045783



Plot 15: LTE Band2, 20MHz, Back, Middle,10mm

Type: Phone measurement

Date of measurement: 02/22/2020

Measurement duration: 22 minutes 14 seconds

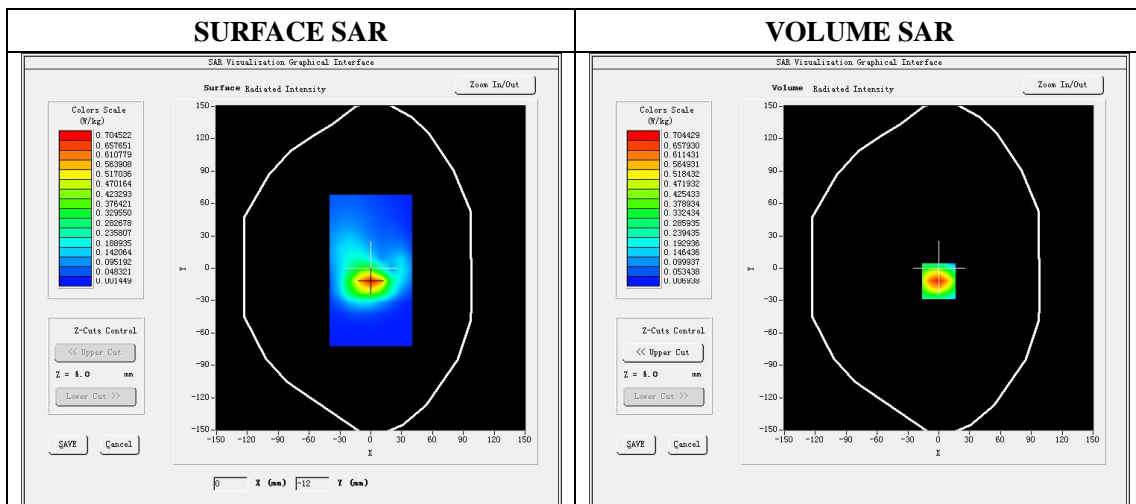
Mobile Phone IMEI number: --

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 2
Channels	18900
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

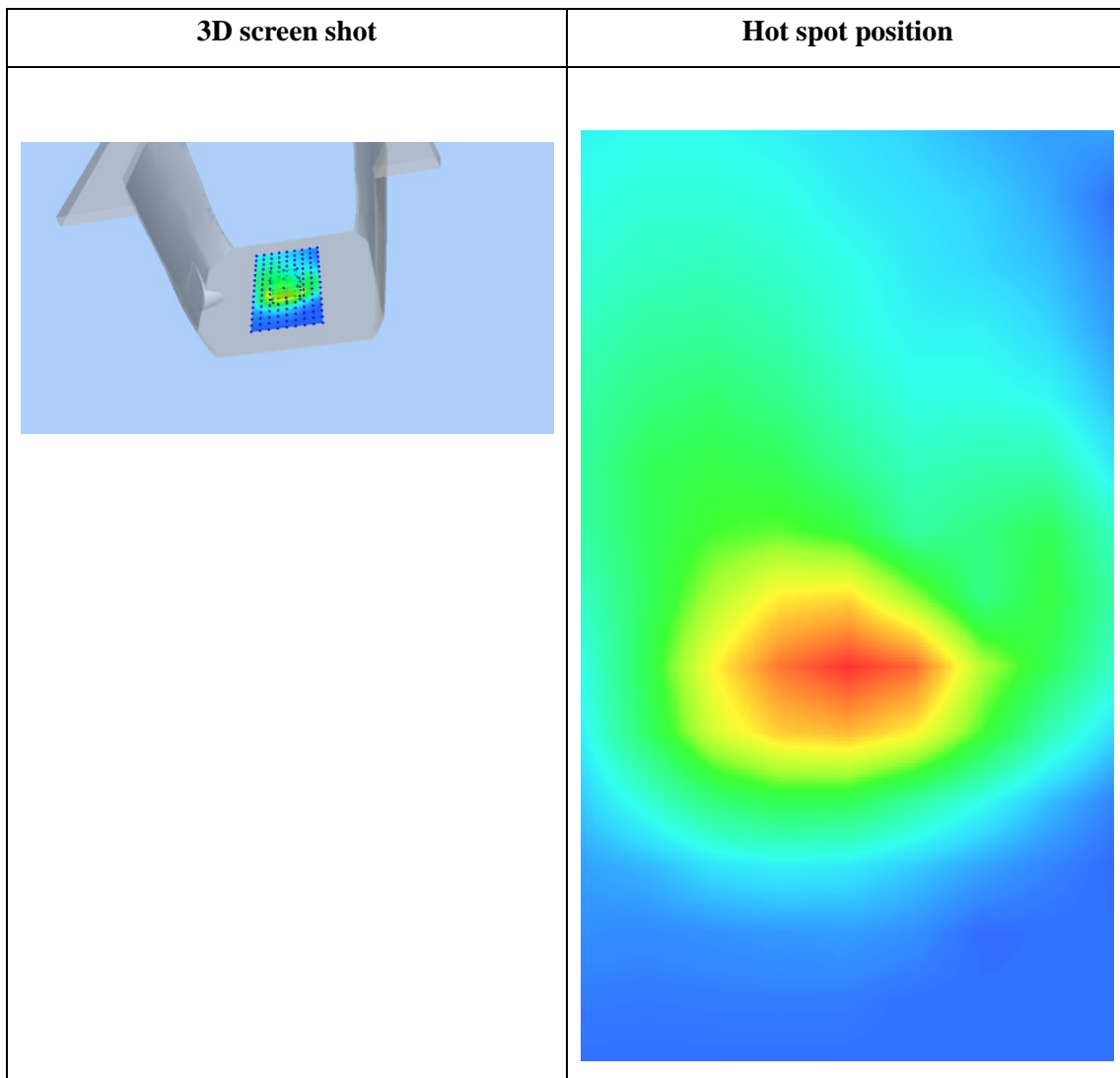
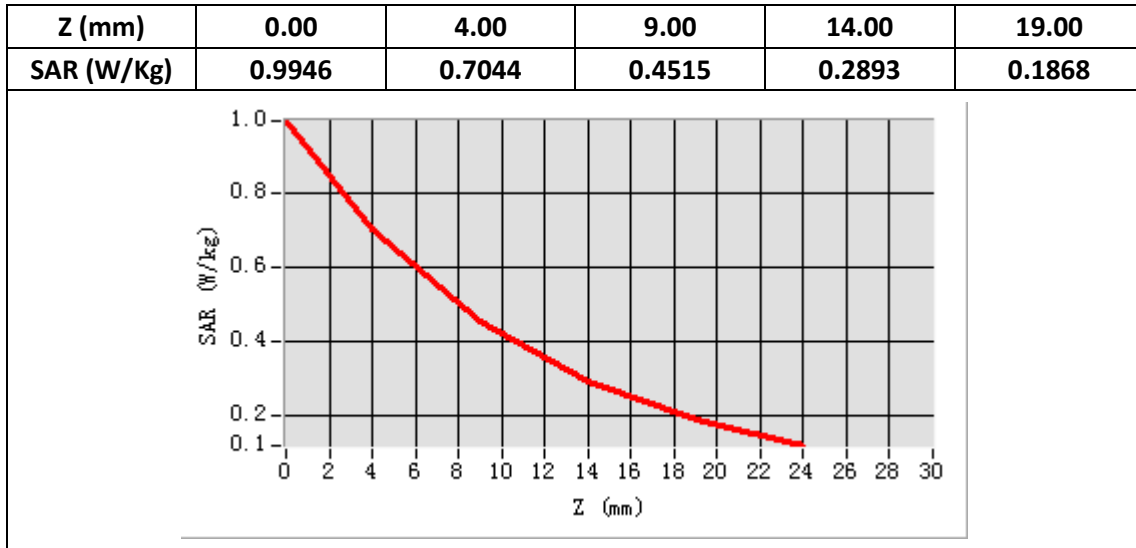
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1880
Relative permittivity (real part)	53.29
Relative permittivity (imaginary)	14.40
Conductivity (S/m)	1.52
Variation (%)	-2.19
ConvF:	2.39



Maximum location: X=0.00, Y=-12.00

SAR Peak: 0.99W/kg

SAR 10g (W/Kg)	0.363649
SAR 1g (W/Kg)	0.649158



Plot 16: LTE Band2, 20MHz, Edge C, Middle,10mm

Type: Phone measurement

Date of measurement: 02/22/2020

Measurement duration: 22 minutes 15 seconds

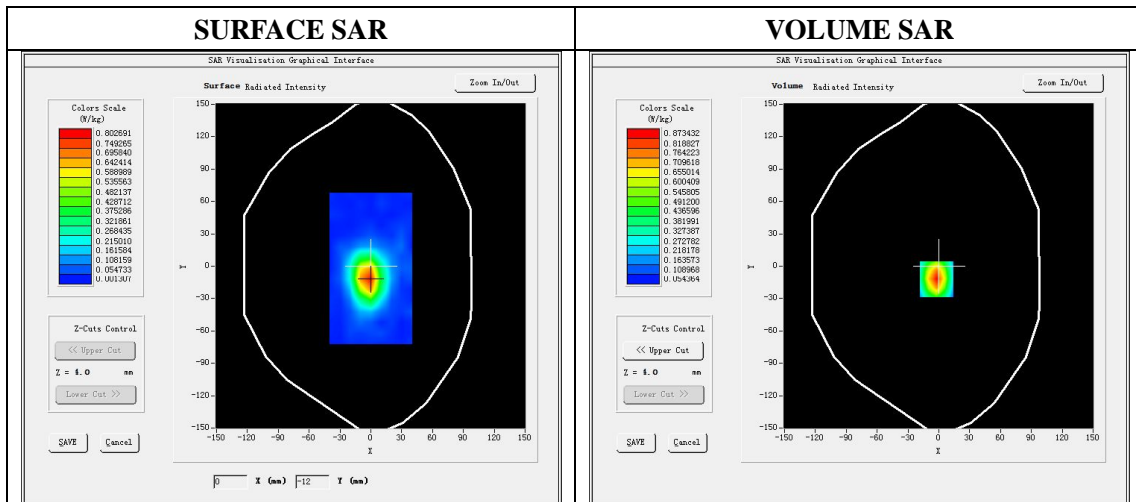
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Edge C
Band	LTE Band 2
Channels	18900
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

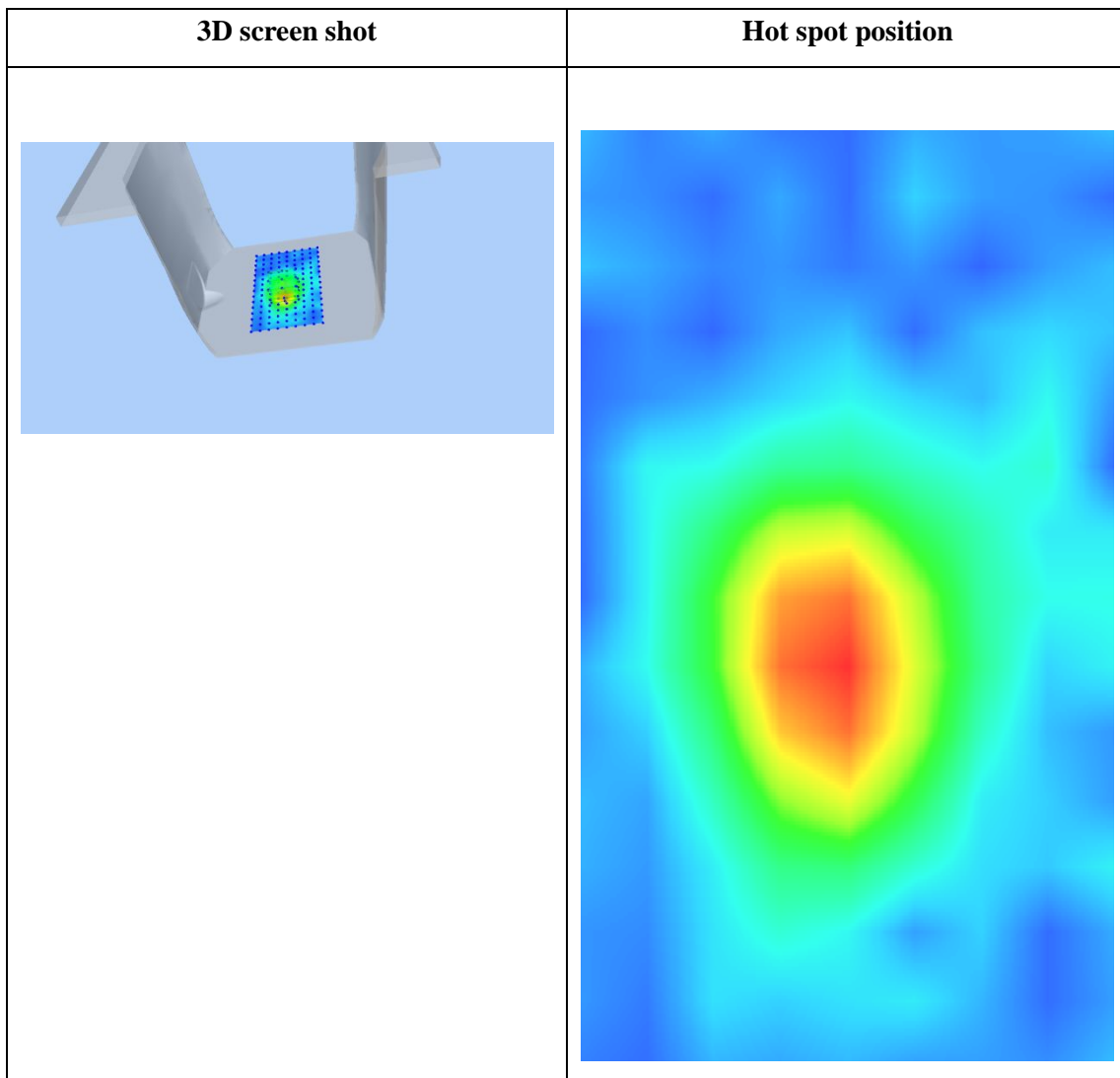
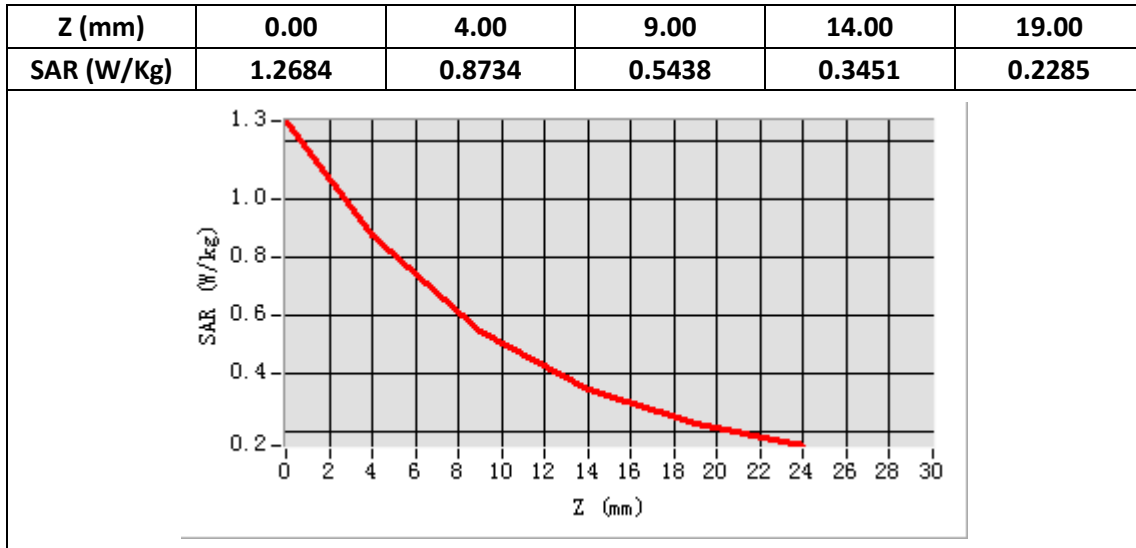
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1880
Relative permittivity (real part)	53.29
Relative permittivity (imaginary)	14.40
Conductivity (S/m)	1.52
Variation (%)	-0.80
ConvF:	2.39



Maximum location: X=-2.00, Y=-12.00

SAR Peak: 1.27W/kg

SAR 10g (W/Kg)	0.445551
SAR 1g (W/Kg)	0.803634



Plot 17: LTE Band4, 20MHz, Left Cheek, Middle

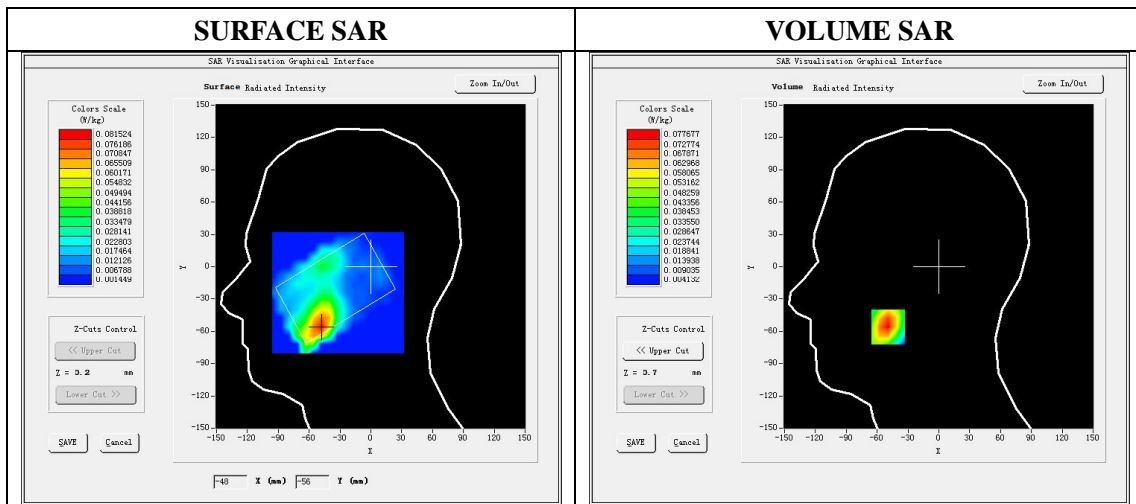
Type: Phone measurement
 Date of measurement: 02/21/2020
 Measurement duration: 22 minutes 16 econds
 Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Left Cheek
Band	LTE Band 4
Channels	20175
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

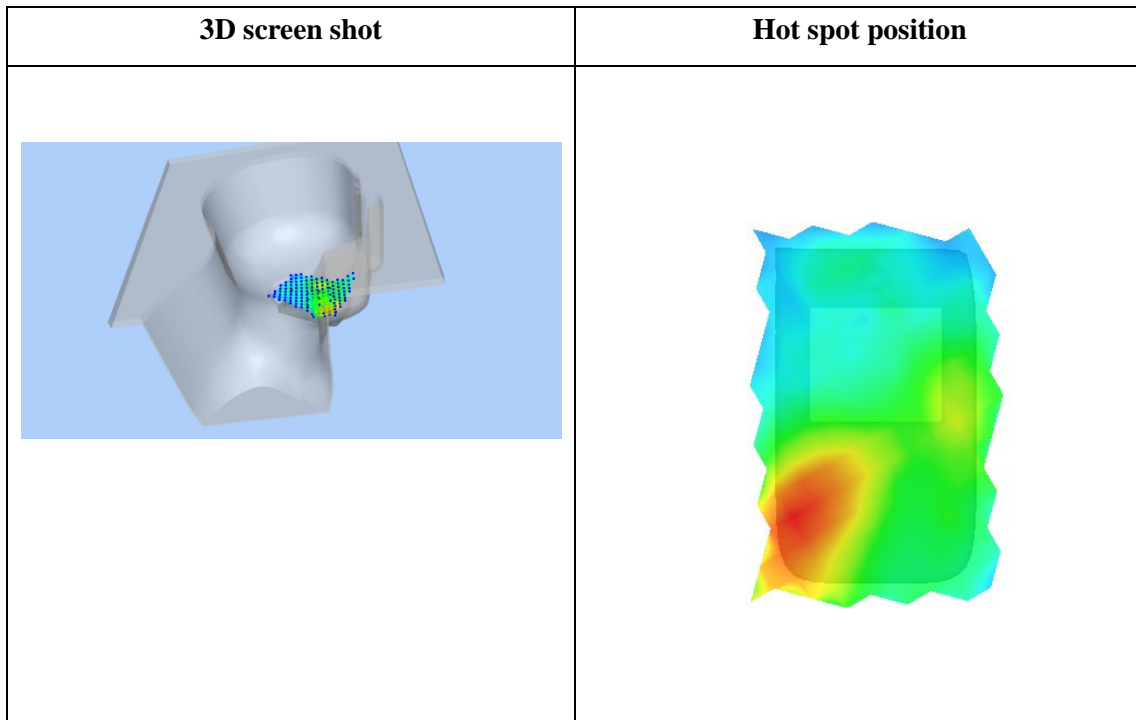
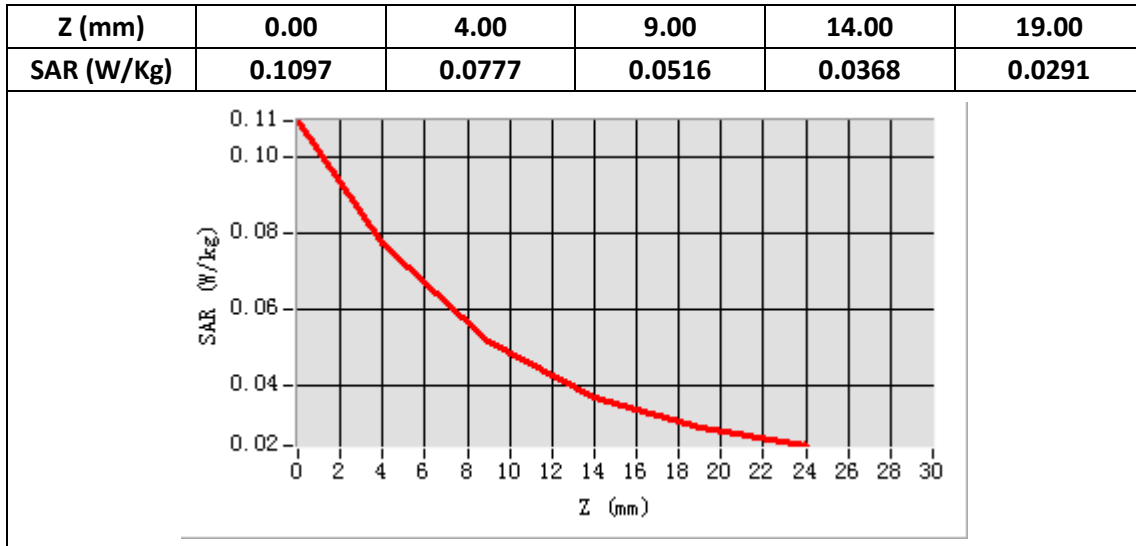
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1732.5
Relative permittivity (real part)	40.42
Relative permittivity (imaginary)	13.80
Conductivity (S/m)	1.38
Variation (%)	-3.20
ConvF:	2.14



Maximum location: X=-49.00, Y=-56.00

SAR Peak: 0.11 W/kg

SAR 10g (W/Kg)	0.046669
SAR 1g (W/Kg)	0.075269



Plot 18: LTE Band4, 20MHz, Back, Middle,10mm

Type: Phone measurement

Date of measurement: 02/21/2020

Measurement duration: 22 minutes 18 seconds

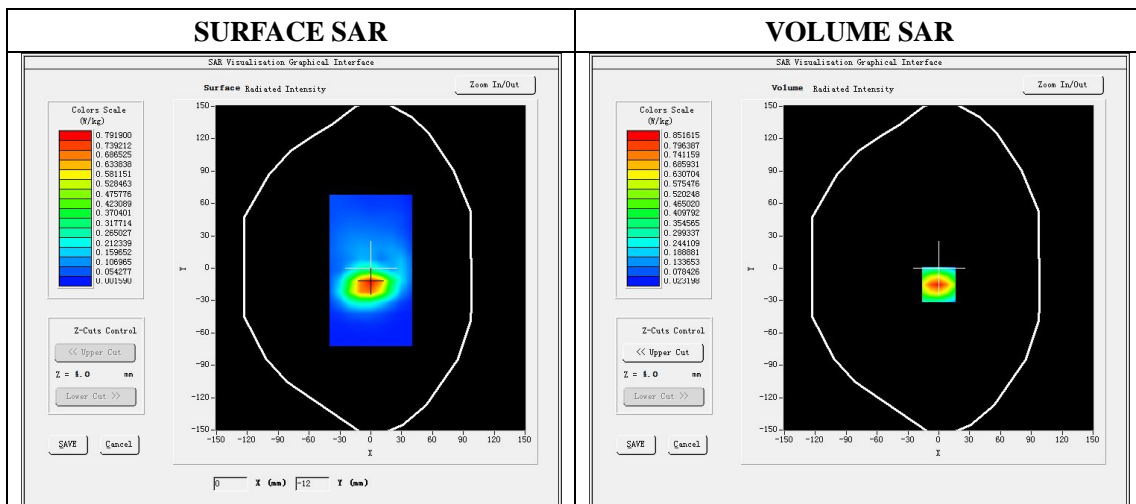
Mobile Phone IMEI number: --

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 4
Channels	20175
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

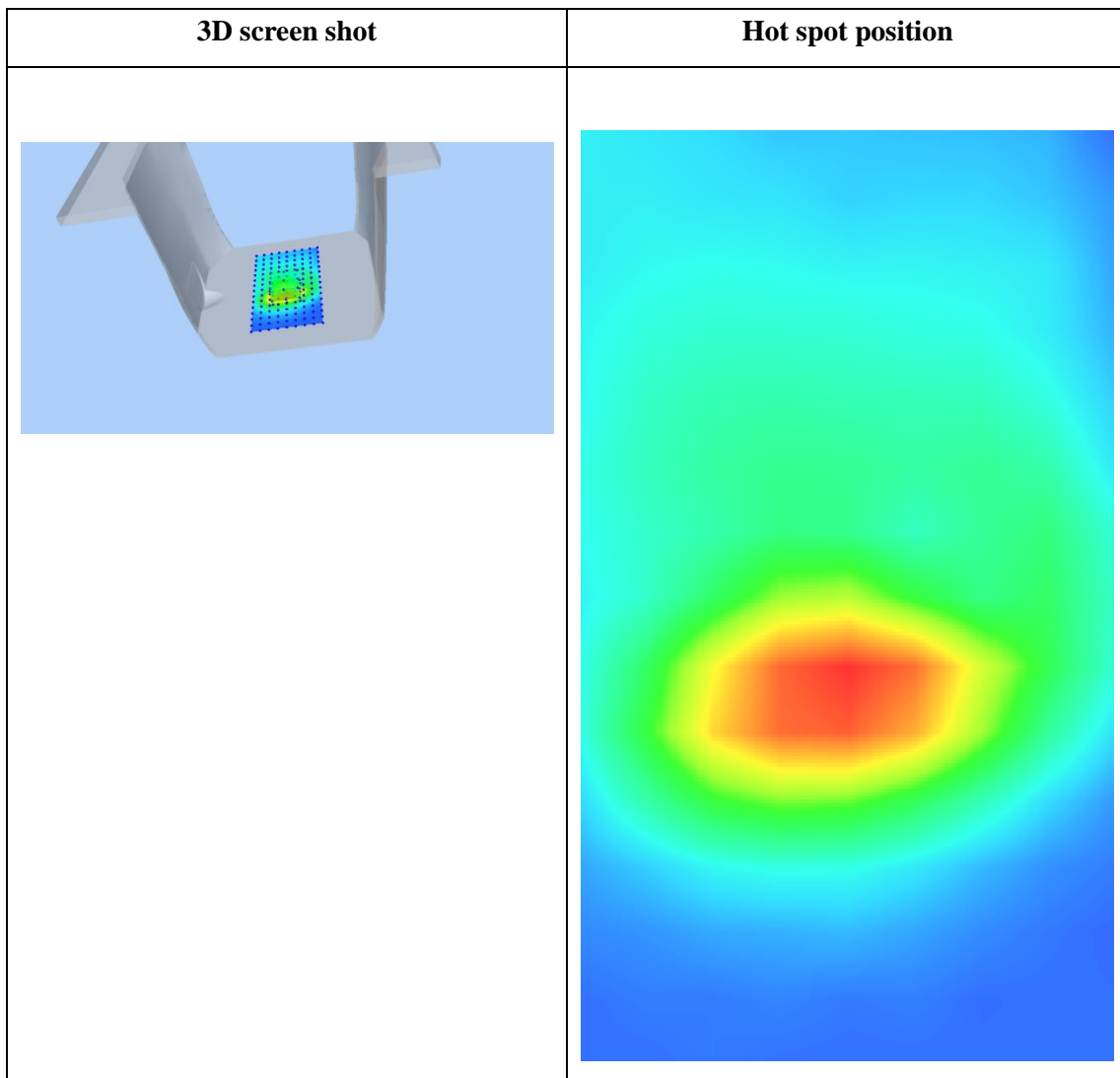
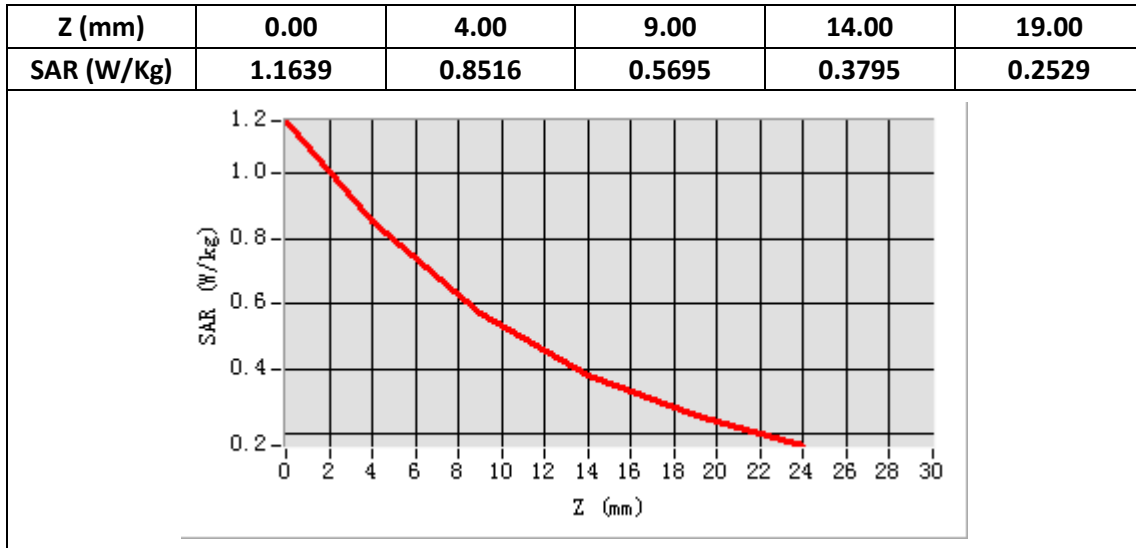
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1732.5
Relative permittivity (real part)	53.37
Relative permittivity (imaginary)	15.00
Conductivity (S/m)	1.50
Variation (%)	-1.56
ConvF:	2.22



Maximum location: X=0.00, Y=-15.00

SAR Peak: 1.17W/kg

SAR 10g (W/Kg)	0.448205
SAR 1g (W/Kg)	0.784684



Plot 19: LTE Band4, 20MHz, Edge C, Low,10mm

Type: Phone measurement

Date of measurement: 02/21/2020

Measurement duration: 22 minutes 19 seconds

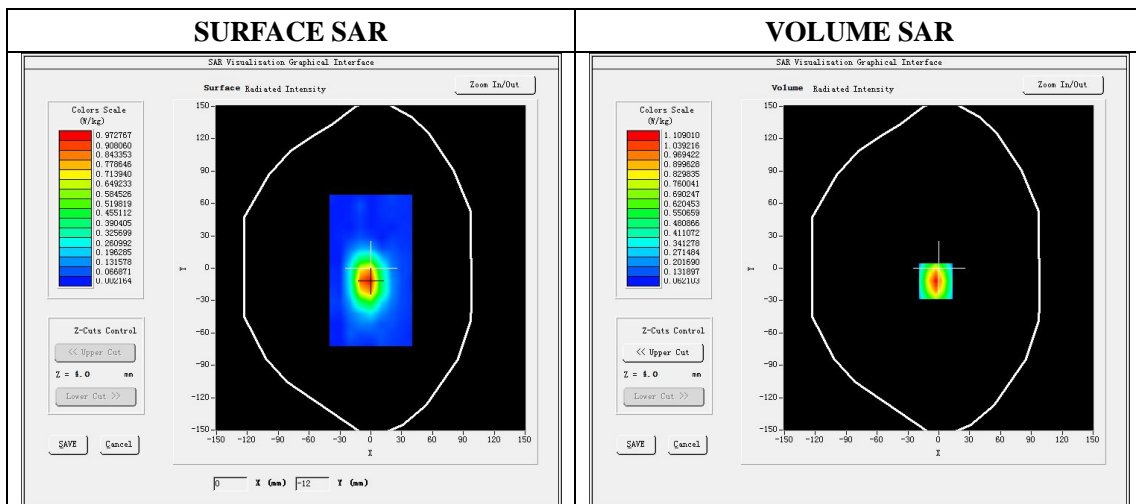
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Edge C
Band	LTE Band 4
Channels	20050
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

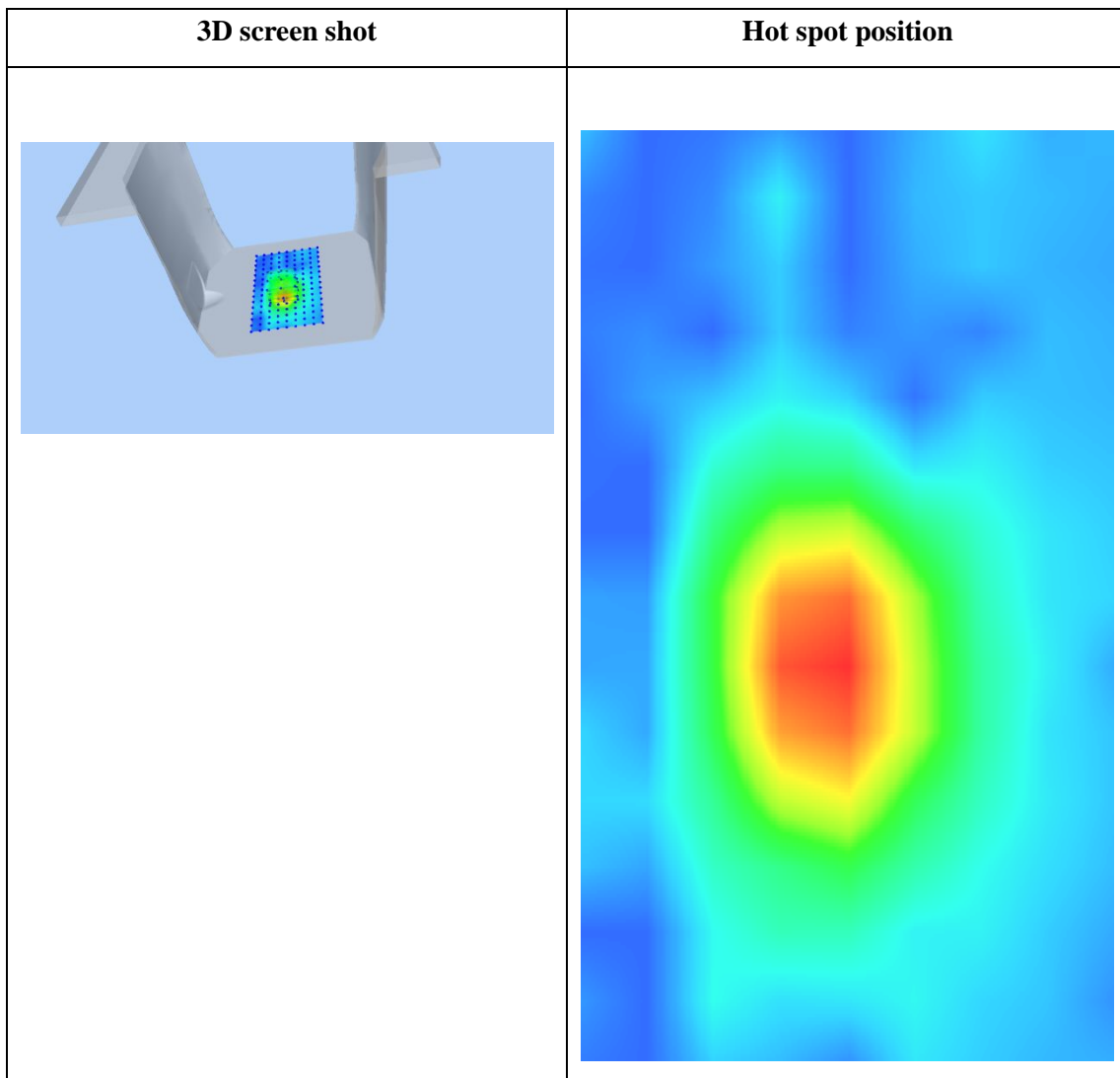
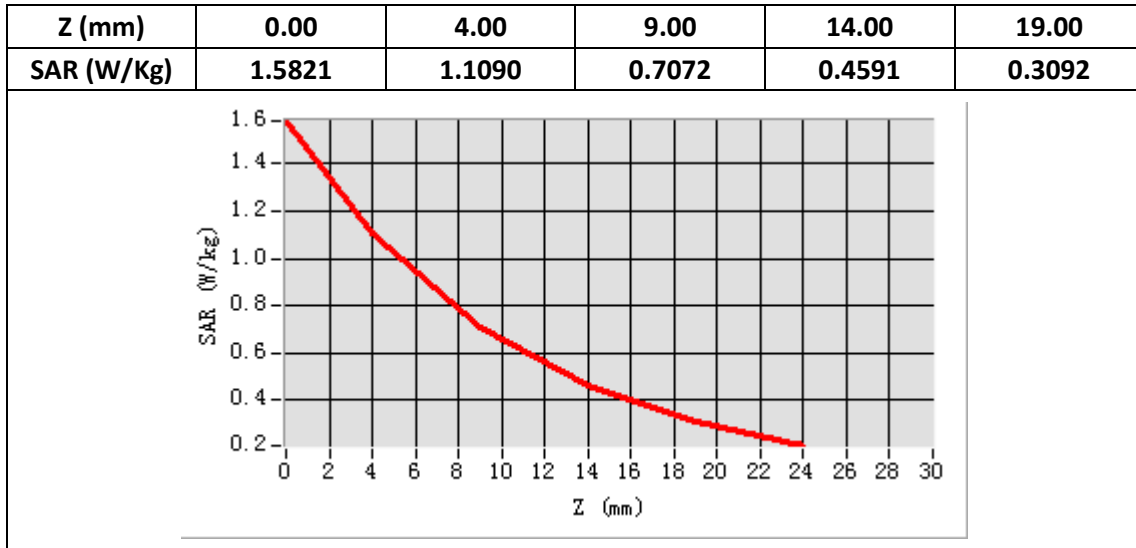
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1720
Relative permittivity (real part)	53.37
Relative permittivity (imaginary)	15.00
Conductivity (S/m)	1.50
Variation (%)	-1.19
ConvF:	2.22



Maximum location: X=-3.00, Y=-12.00

SAR Peak: 1.58W/kg

SAR 10g (W/Kg)	0.570699
SAR 1g (W/Kg)	1.017875



Plot 20: LTE Band5, 10MHz, Left Cheek, Middle

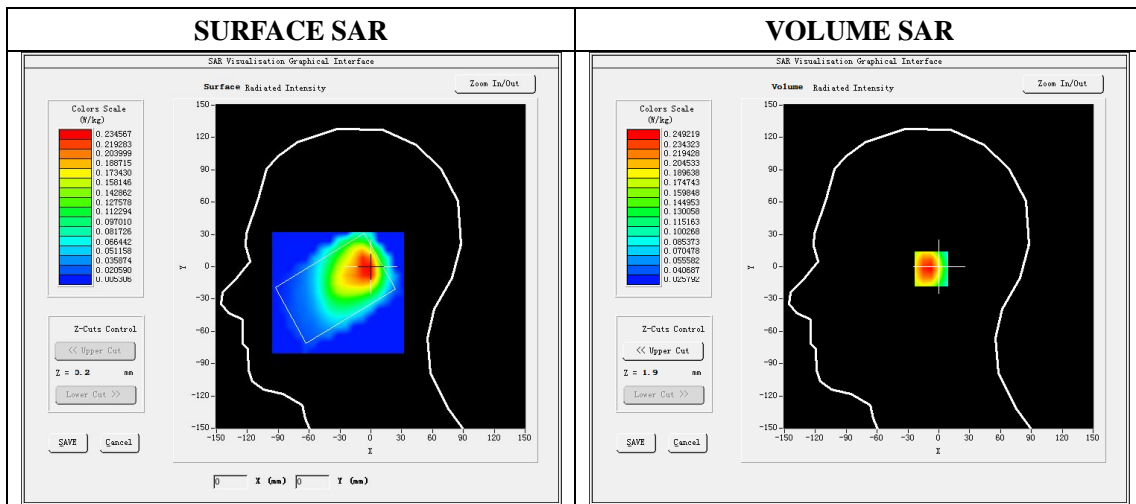
Type: Phone measurement
 Date of measurement: 02/20/2020
 Measurement duration: 22 minutes 22 seconds
 Mobile Phone IMEI number: --

A. Experimental conditions.

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

B. SAR Measurement Results

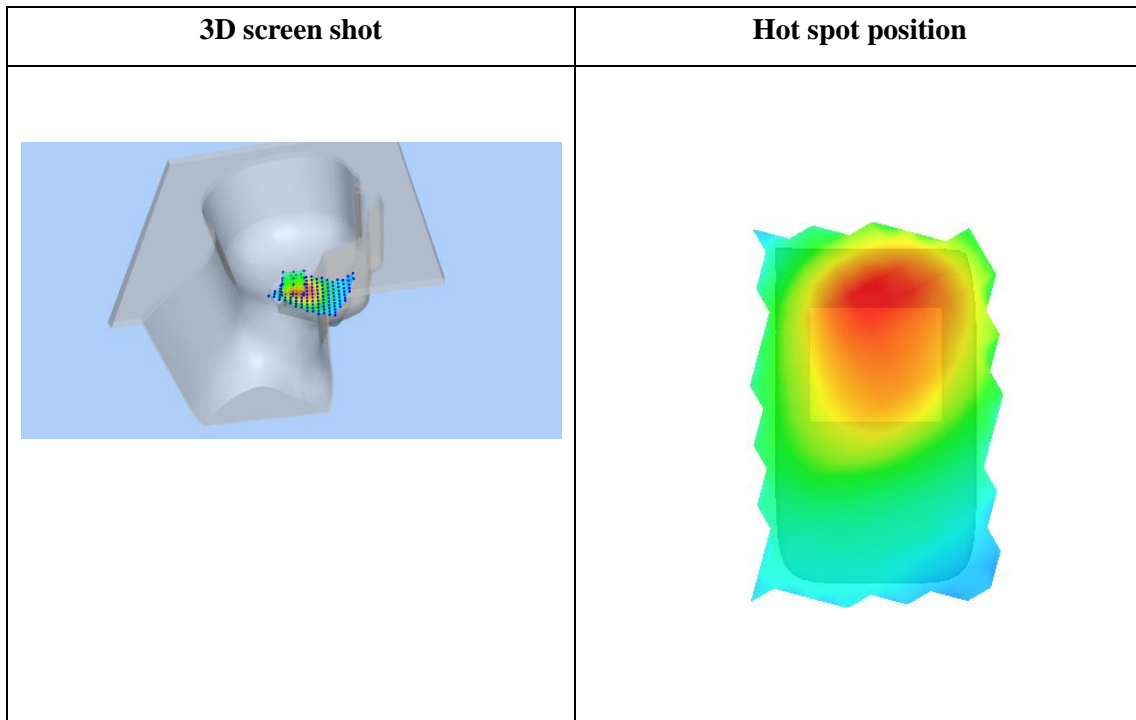
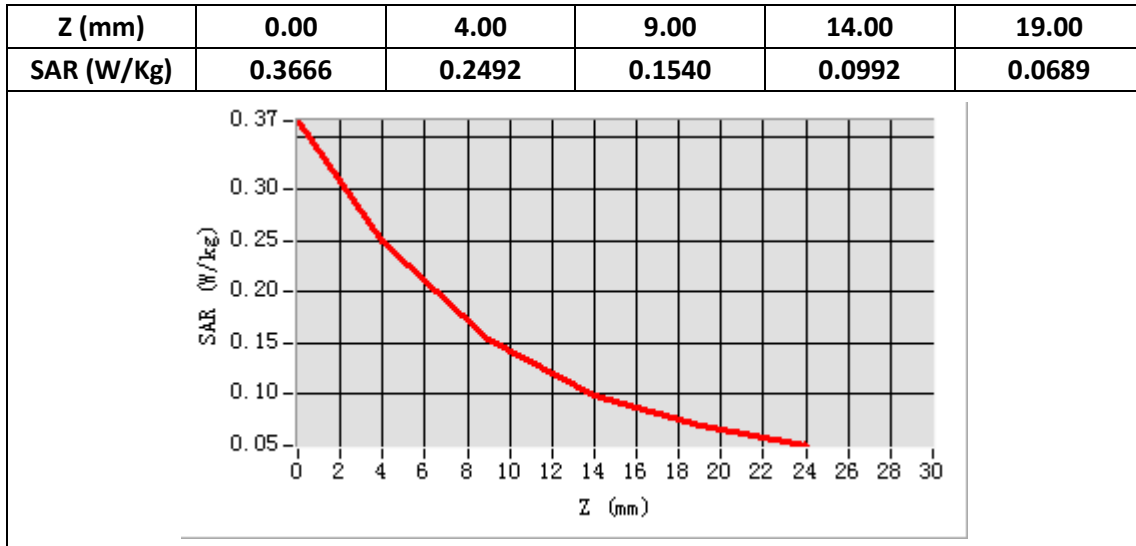
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	836.5
Relative permittivity (real part)	41.56
Relative permittivity (imaginary)	20.91
Conductivity (S/m)	0.97
Variation (%)	-0.73
ConvF:	1.92



Maximum location: X=-3.00, Y=-2.00

SAR Peak: 0.38 W/kg

SAR 10g (W/Kg)	0.151436
SAR 1g (W/Kg)	0.240502



Plot 21: LTE Band5, 10MHz, Back, Middle,10mm

Type: Phone measurement

Date of measurement: 02/20/2020

Measurement duration: 22 minutes 20 seconds

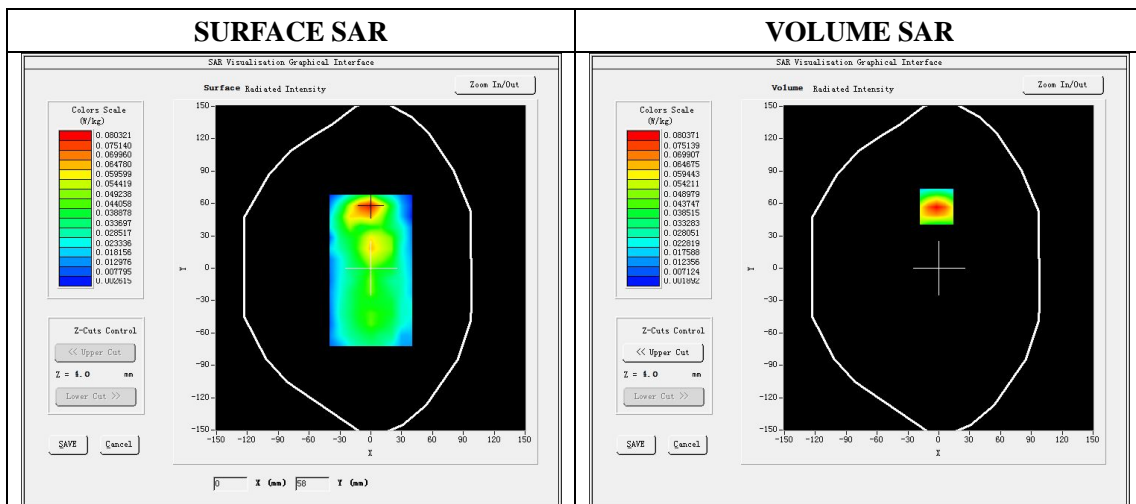
Mobile Phone IMEI number: --

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 5
Channels	20525
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	836.5
Relative permittivity (real part)	55.30
Relative permittivity (imaginary)	21.34
Conductivity (S/m)	0.99
Variation (%)	-4.68
ConvF:	1.99

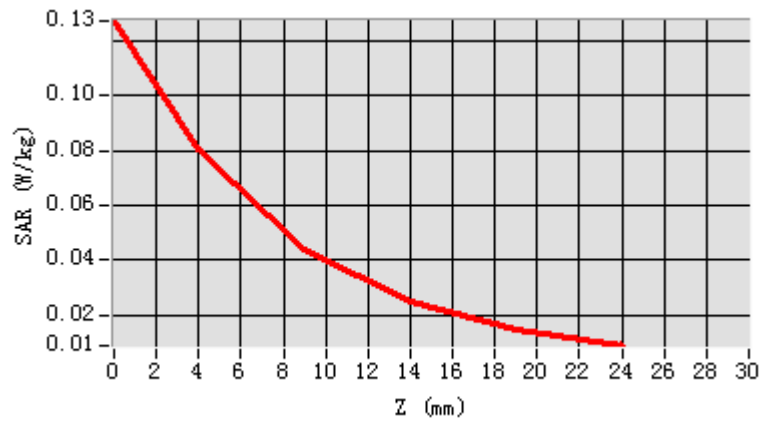


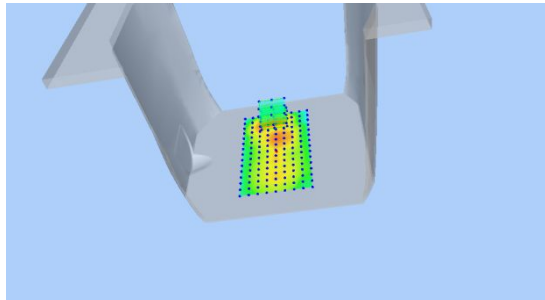
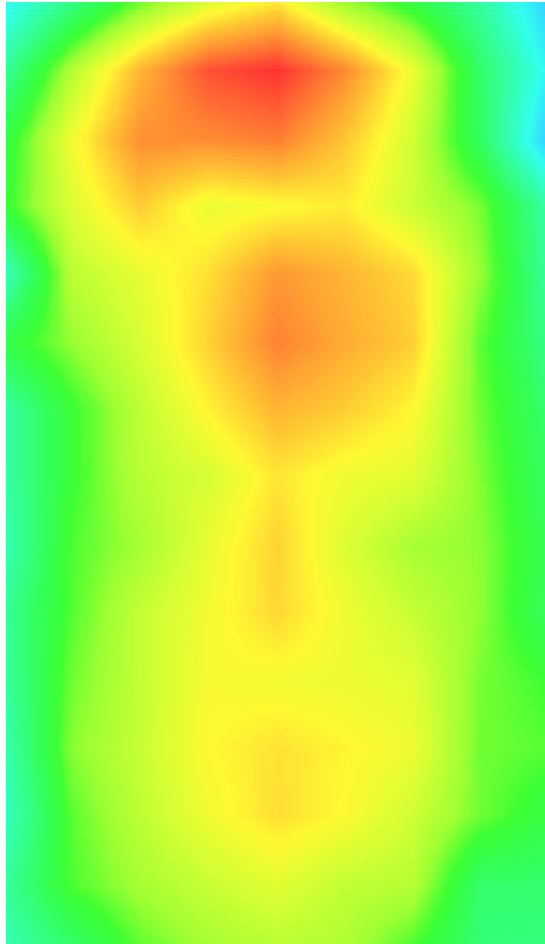
Maximum location: X=-2.00, Y=57.00

SAR Peak: 0.63W/kg

SAR 10g (W/Kg)	0.040789
SAR 1g (W/Kg)	0.076664

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.1273	0.0804	0.0441	0.0246	0.0146



3D screen shot	Hot spot position
	

Plot 22: LTE Band7, 20MHz, Right Tilt 15° , Middle

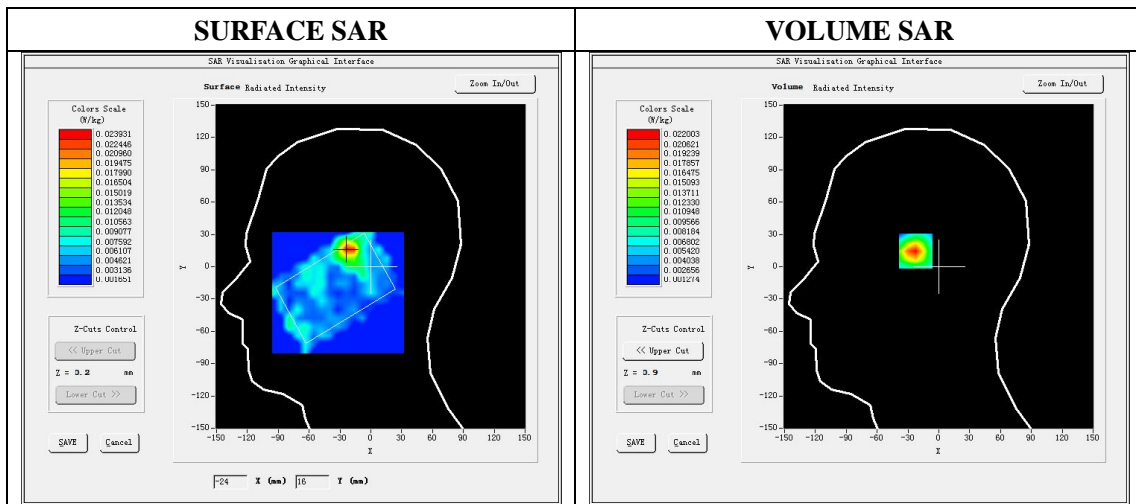
Type: Phone measurement
 Date of measurement: 02/25/2020
 Measurement duration: 22 minutes 23 seconds
 Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=5mm,dy=5mm
ZoomScan	7x7x8,dx=5mm dy=5mm dz=4mm
Phantom	Validation plane
Device Position	Right Tilt 15°
Band	LTE Band 7
Channels	21350
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

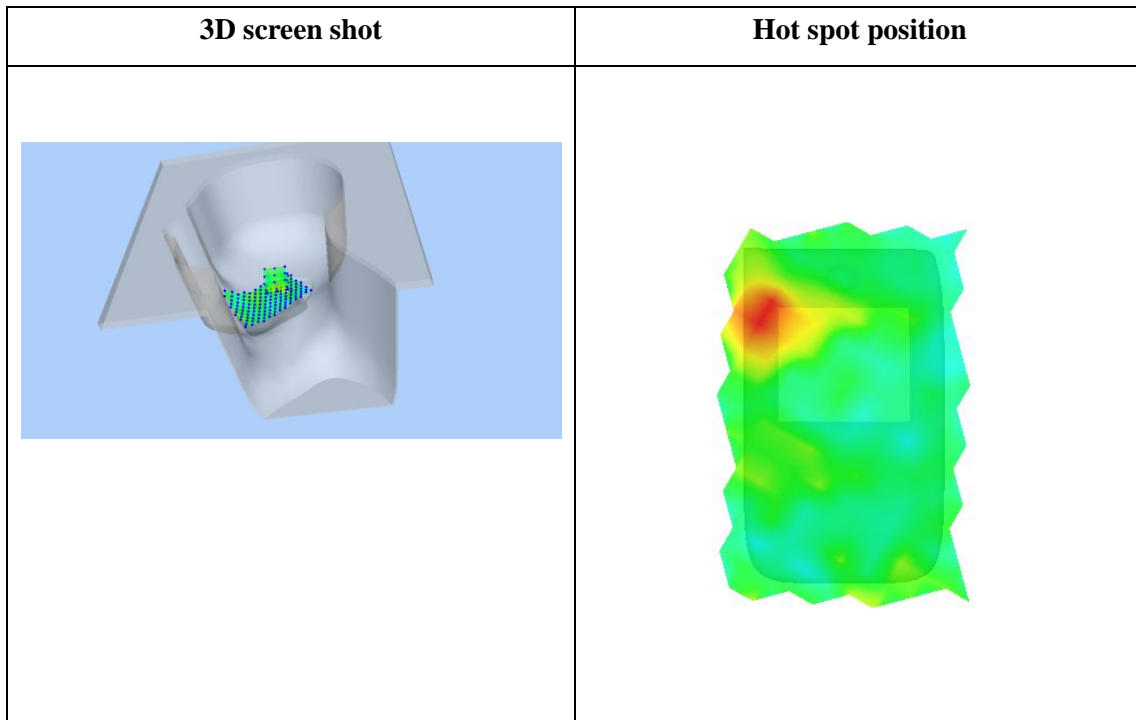
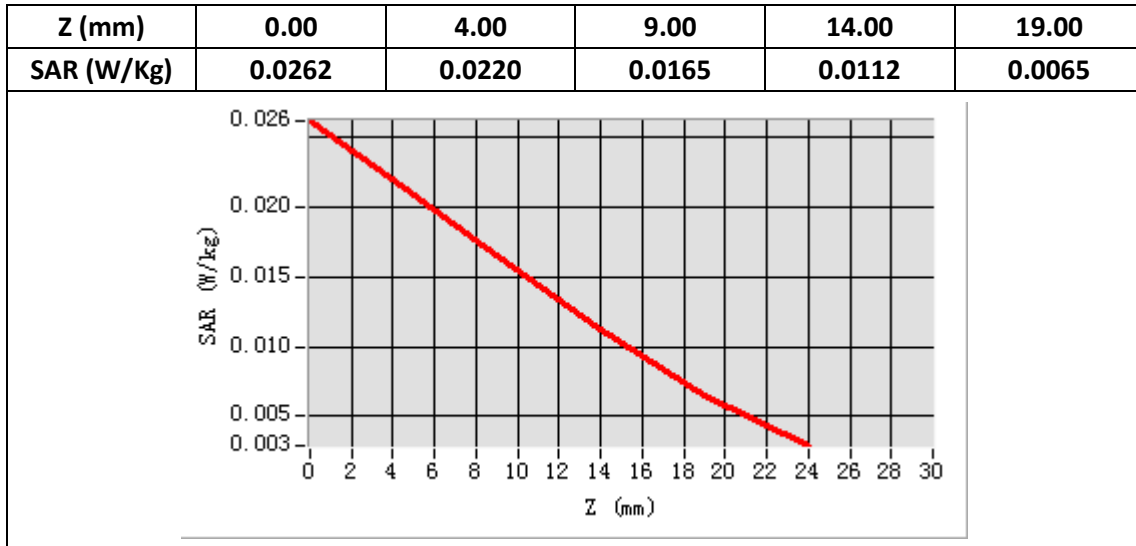
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	2560
Relative permittivity (real part)	39.06
Relative permittivity (imaginary)	13.71
Conductivity (S/m)	1.98
Variation (%)	-4.49
ConvF:	2.35



Maximum location: X=-21.00 Y=16.00

SAR Peak: 0.03W/kg

SAR 10g (W/Kg)	0.012315
SAR 1g (W/Kg)	0.020439



Plot 23: LTE Band7, 20MHz, Back, Middle,10mm

Type: Phone measurement

Date of measurement: 02/25/2020

Measurement duration: 22 minutes 21 seconds

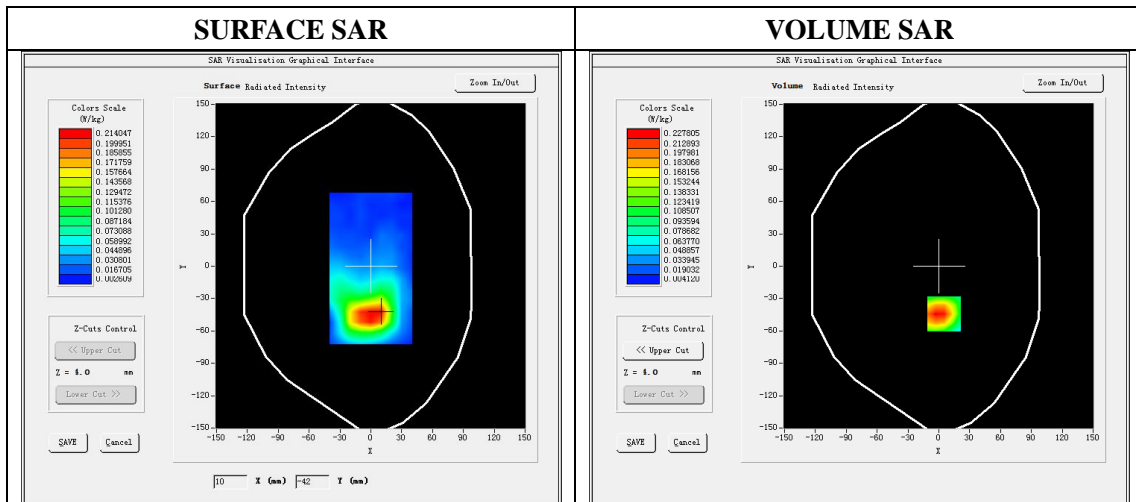
Mobile Phone IMEI number: --

A. Experimental conditions.

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

B. SAR Measurement Results

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	2560
Relative permittivity (real part)	52.50
Relative permittivity (imaginary)	14.75
Conductivity (S/m)	2.13
Variation (%)	-1.41
ConvF:	2.43

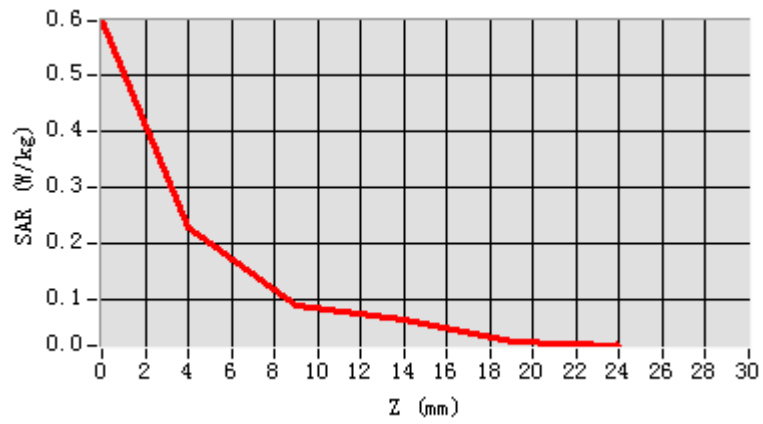


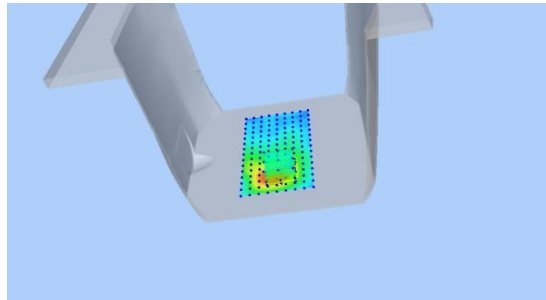
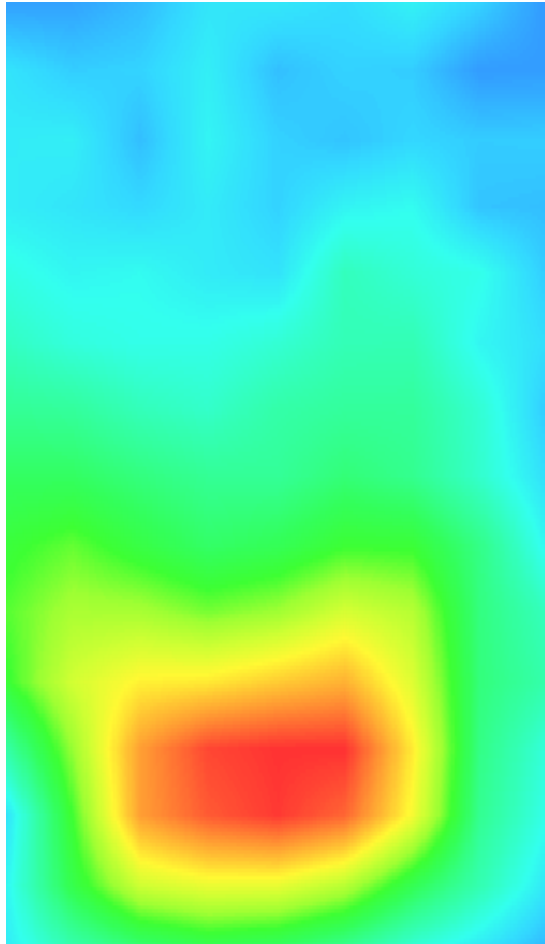
Maximum location: X=5.00 Y=-44.00

SAR Peak: 0.38 W/kg

SAR 10g (W/Kg)	0.114570
SAR 1g (W/Kg)	0.217194

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.5950	0.2278	0.0909	0.0629	0.0258



3D screen shot	Hot spot position
	

Plot 24: LTE Band7, 20MHz, Edge C, Middle,10mm

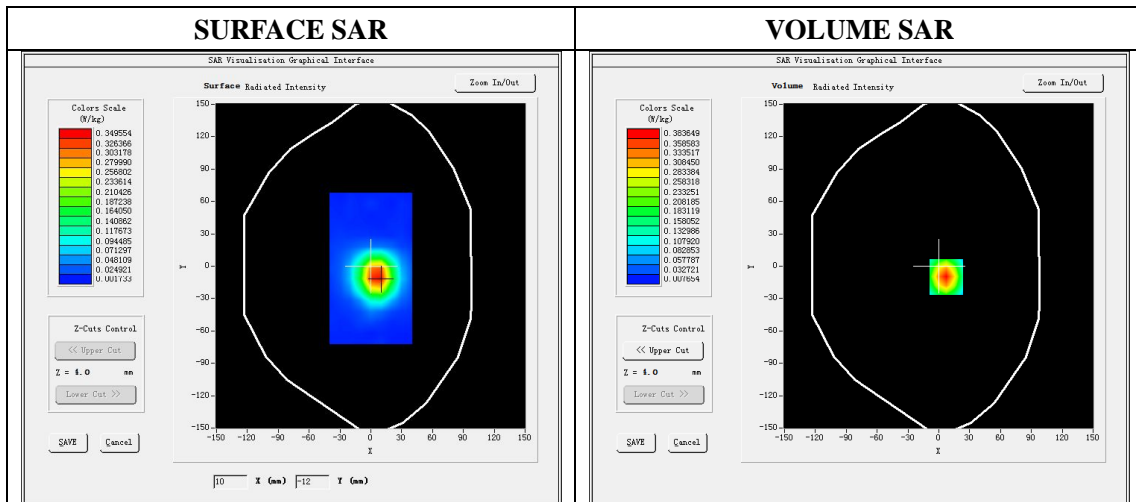
Type: Phone measurement
 Date of measurement: 02/25/2020
 Measurement duration: 22 minutes 27 seconds
 Mobile Phone IMEI number: --

A. Experimental conditions.

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

B. SAR Measurement Results

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	2560
Relative permittivity (real part)	52.50
Relative permittivity (imaginary)	14.75
Conductivity (S/m)	2.13
Variation (%)	-1.48
ConvF:	2.43

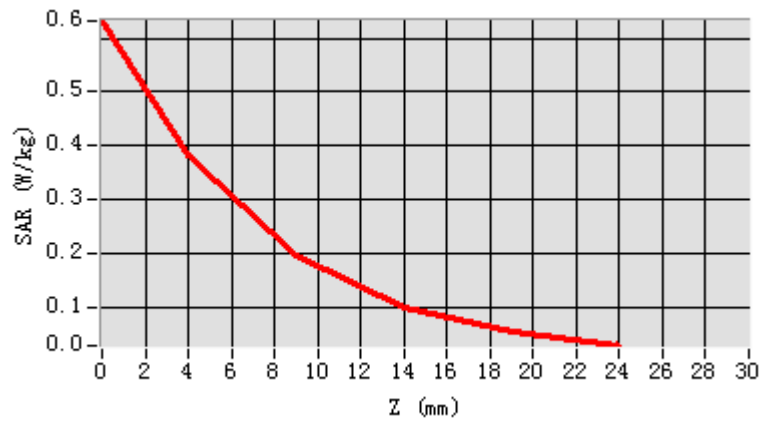


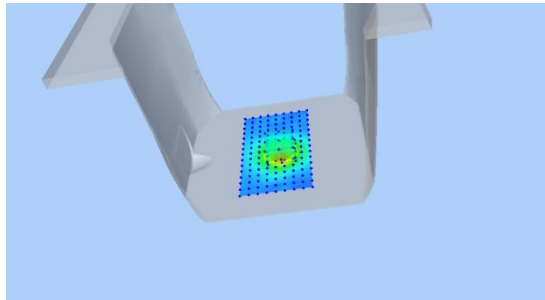
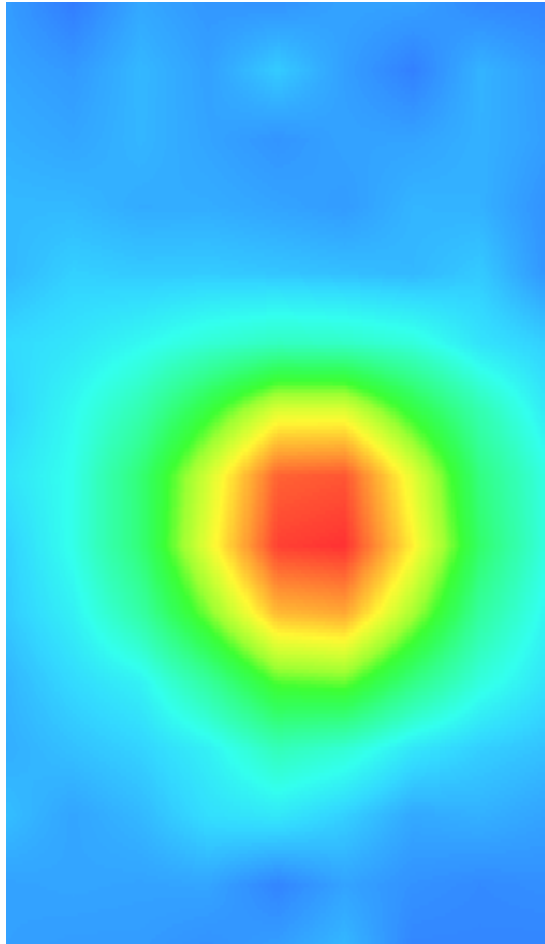
Maximum location: X=7.00 Y=-10.00

SAR Peak: 0.63 W/kg

SAR 10g (W/Kg)	0.176787
SAR 1g (W/Kg)	0.356064

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.6322	0.3836	0.1971	0.1008	0.0541



3D screen shot	Hot spot position
	

Plot 25: LTE Band12, 10MHz,Left Cheek, Middle

Type: Phone measurement

Date of measurement: 02/19/2020

Measurement duration: 22 minutes 24 seconds

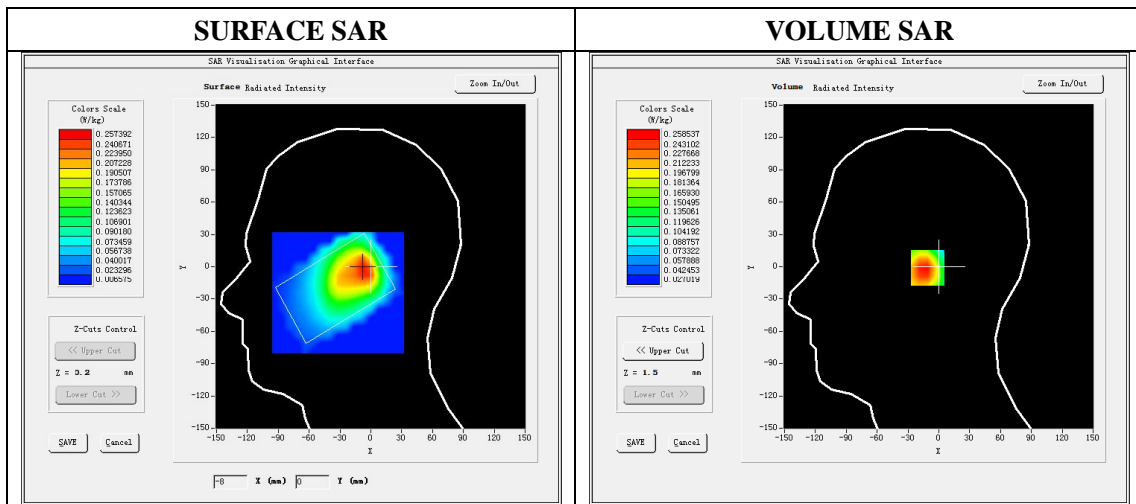
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Left Cheek
Band	LTE Band 12
Channels	23095
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

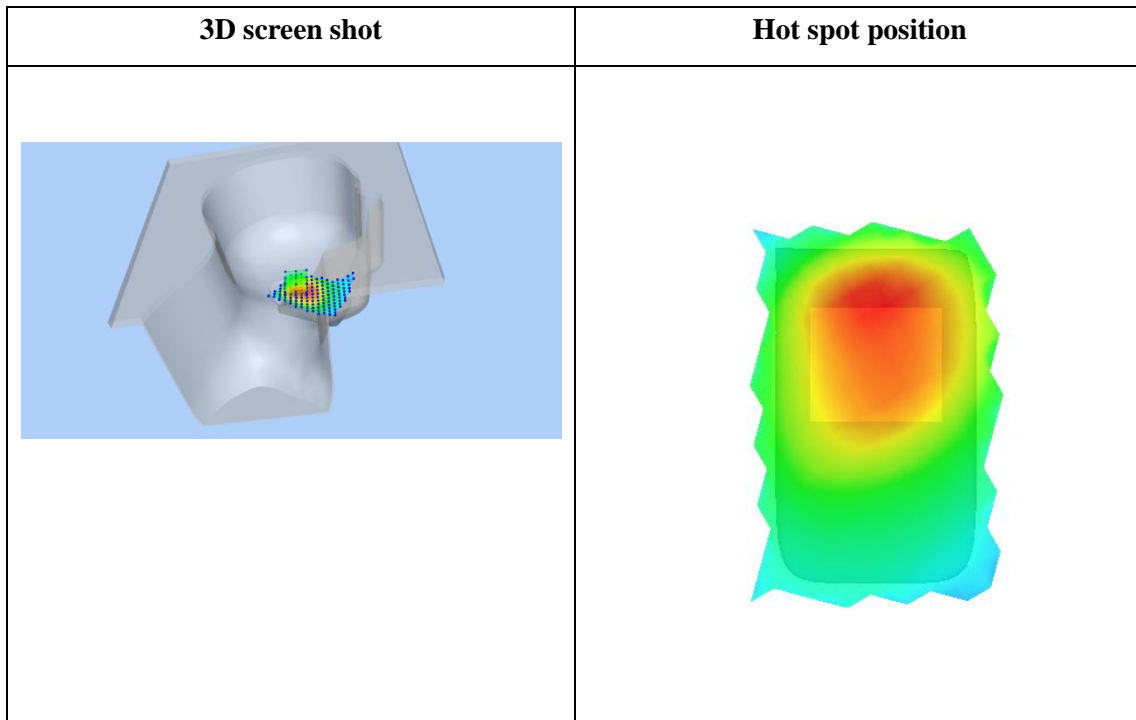
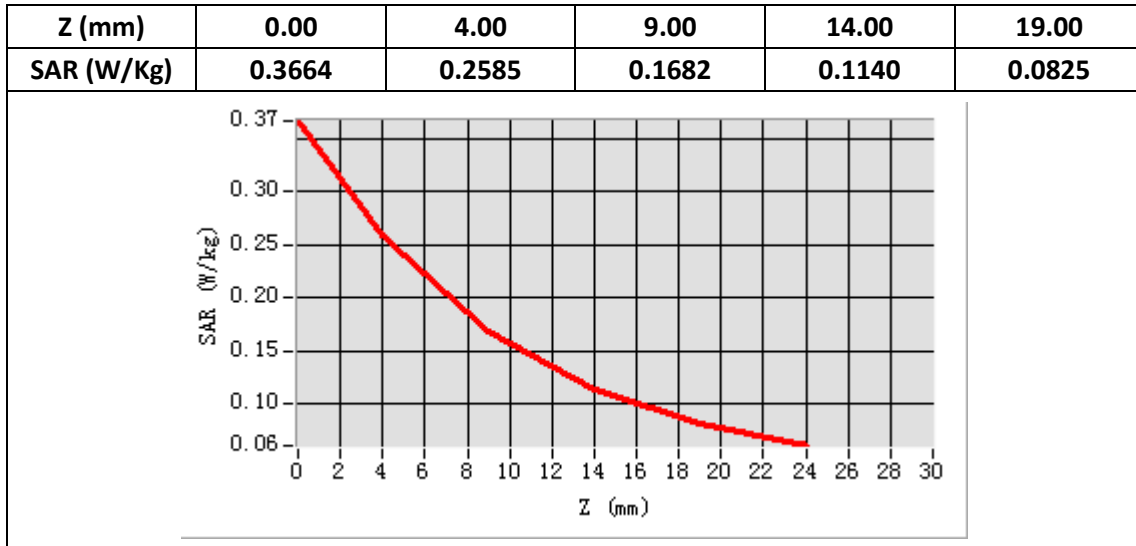
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	707.5
Relative permittivity (real part)	41.88
Relative permittivity (imaginary)	22.56
Conductivity (S/m)	0.94
Variation (%)	-2.31
ConvF:	1.87



Maximum location: X=-7.00, Y=-1.00

SAR Peak: 0.37 W/kg

SAR 10g (W/Kg)	0.170237
SAR 1g (W/Kg)	0.257058



Plot 26: LTE Band12, 10MHz, Face, Middle,10mm

Type: Phone measurement

Date of measurement: 02/19/2020

Measurement duration: 22 minutes 26 seconds

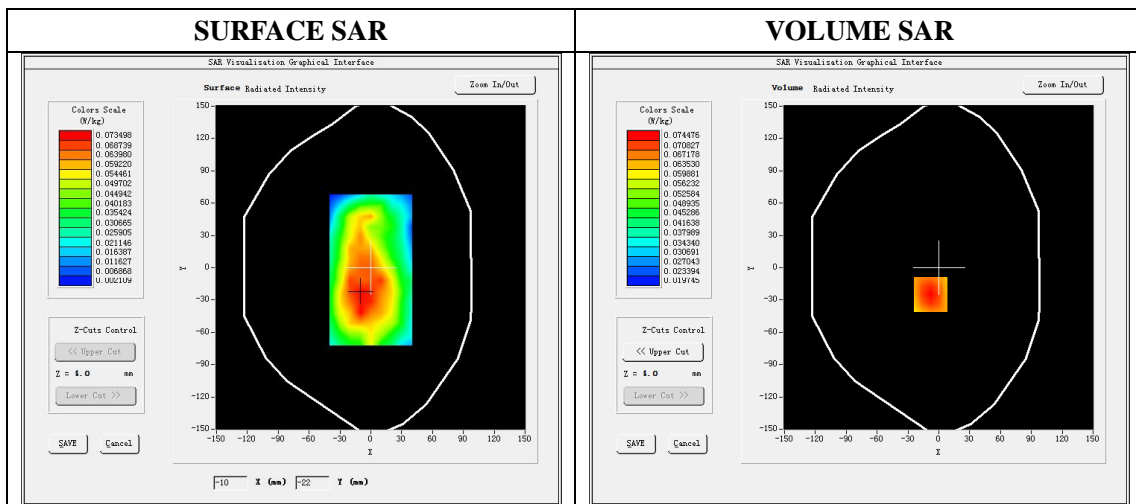
Mobile Phone IMEI number: --

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 12
Channels	23095
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	707.5
Relative permittivity (real part)	55.61
Relative permittivity (imaginary)	23.04
Conductivity (S/m)	0.96
Variation (%)	0.64
ConvF:	1.93

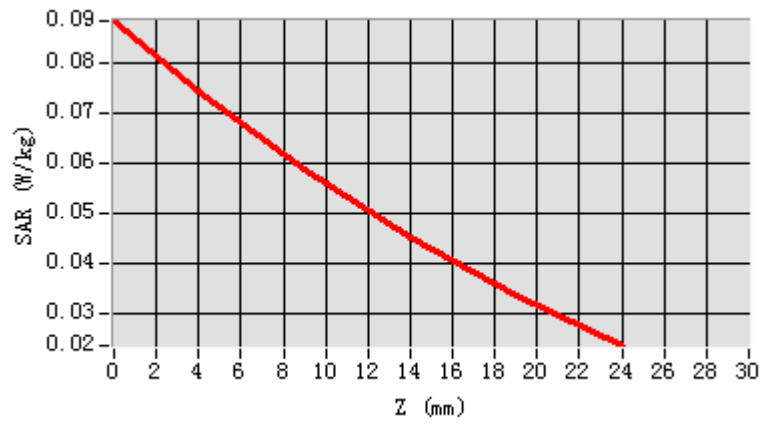


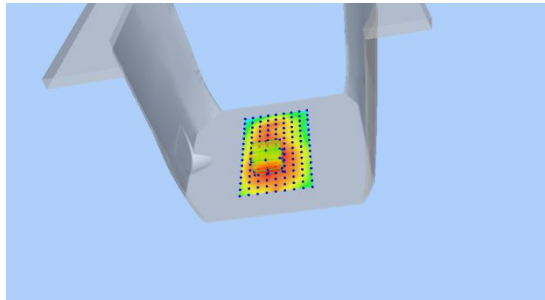
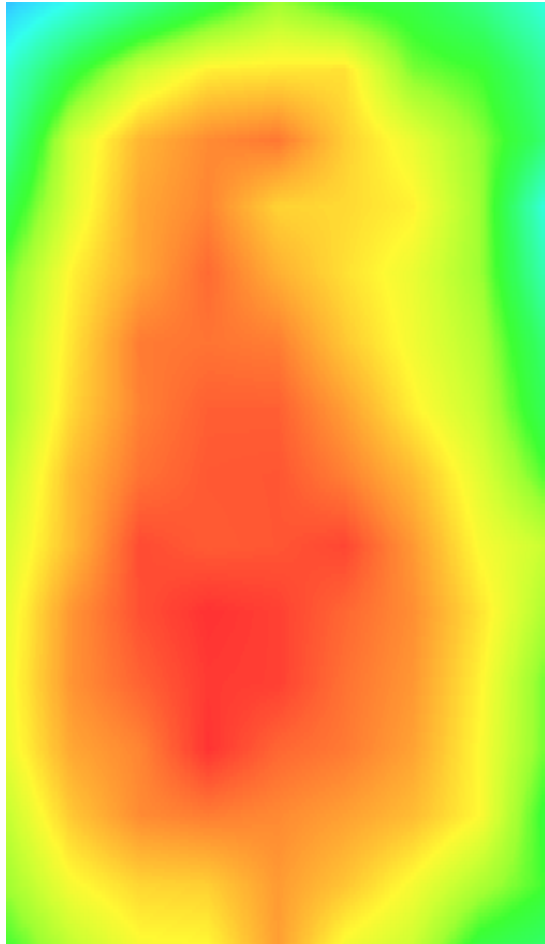
Maximum location: X=-8.00, Y=-25.00

SAR Peak: 0.09W/kg

SAR 10g (W/Kg)	0.055529
SAR 1g (W/Kg)	0.073224

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0885	0.0745	0.0588	0.0451	0.0334



3D screen shot	Hot spot position
	

Plot 27: LTE Band12, 10MHz, Edge D, Middle,10mm

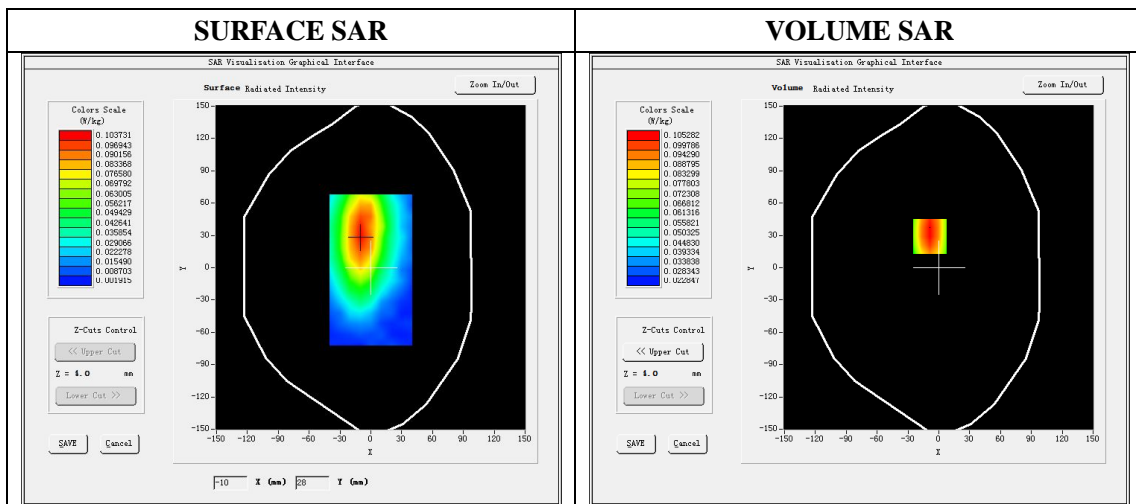
Type: Phone measurement
 Date of measurement: 02/19/2020
 Measurement duration: 22 minutes 25 seconds
 Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Edge D
Band	LTE Band 12
Channels	23095
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	707.5
Relative permittivity (real part)	55.61
Relative permittivity (imaginary)	23.04
Conductivity (S/m)	0.96
Variation (%)	-2.50
ConvF:	1.93

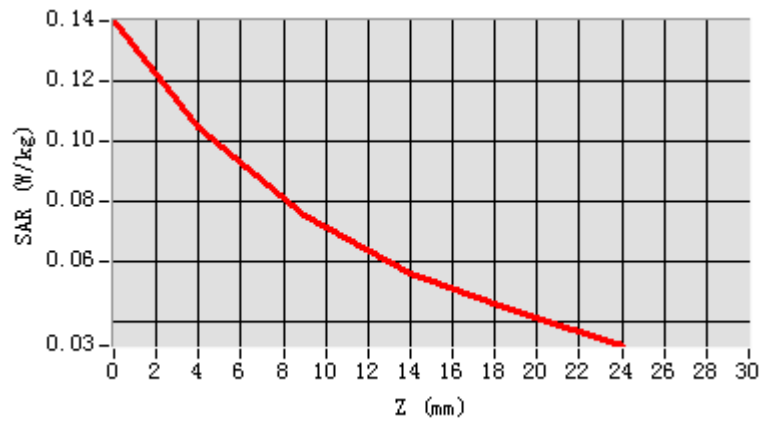


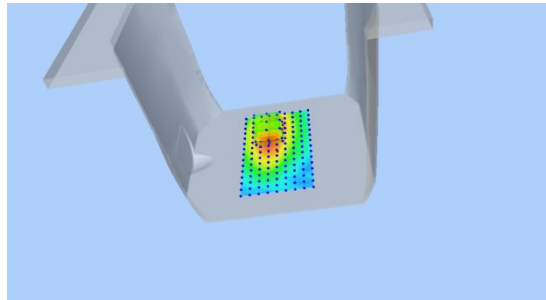
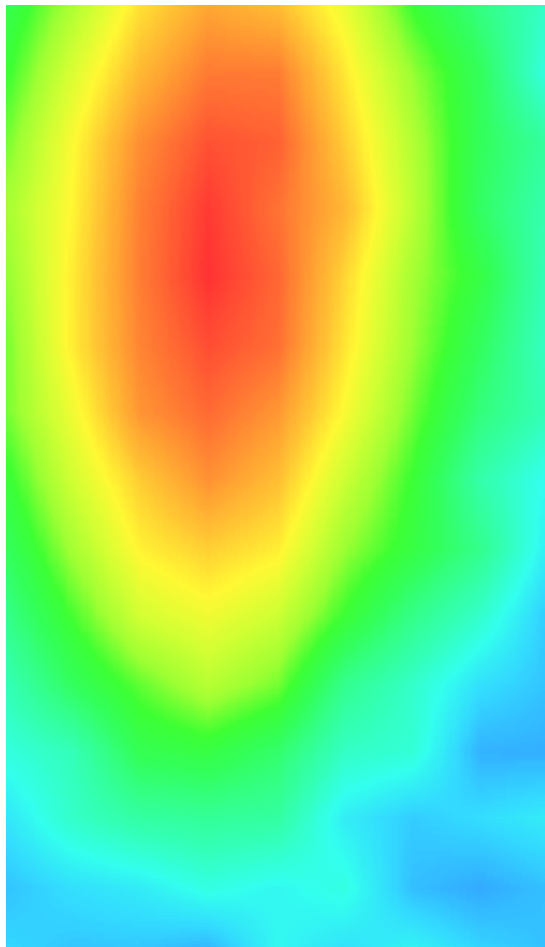
Maximum location: X=-9.00, Y=29.00

SAR Peak: 0.14W/kg

SAR 10g (W/Kg)	0.072562
SAR 1g (W/Kg)	0.103365

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.1403	0.1053	0.0753	0.0563	0.0434



3D screen shot	Hot spot position
	

Plot 28: LTE Band17, 10MHz,Right Check, Middle

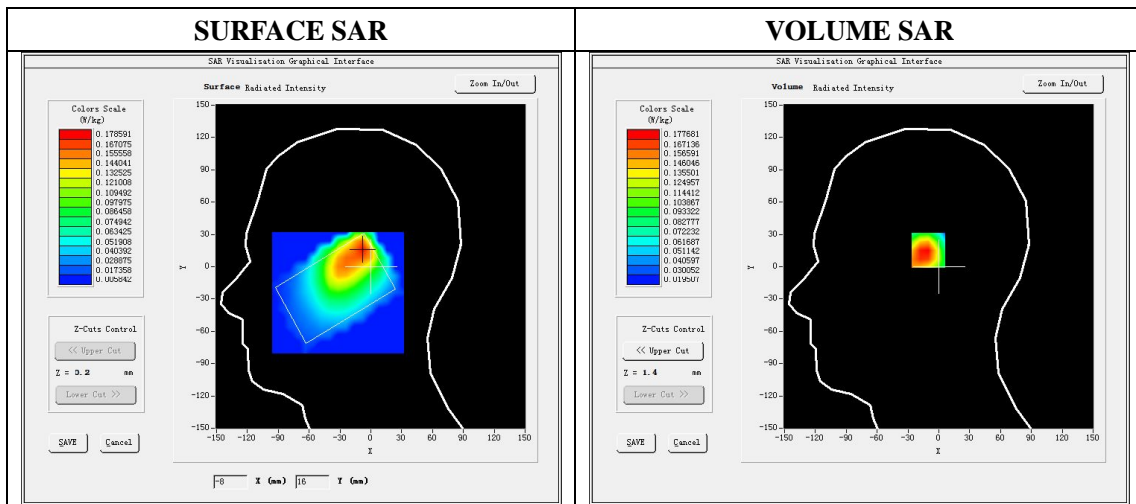
Type: Phone measurement
 Date of measurement: 02/19/2020
 Measurement duration: 22 minutes 29 seconds
 Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Right Check
Band	LTE Band 17
Channels	23790
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

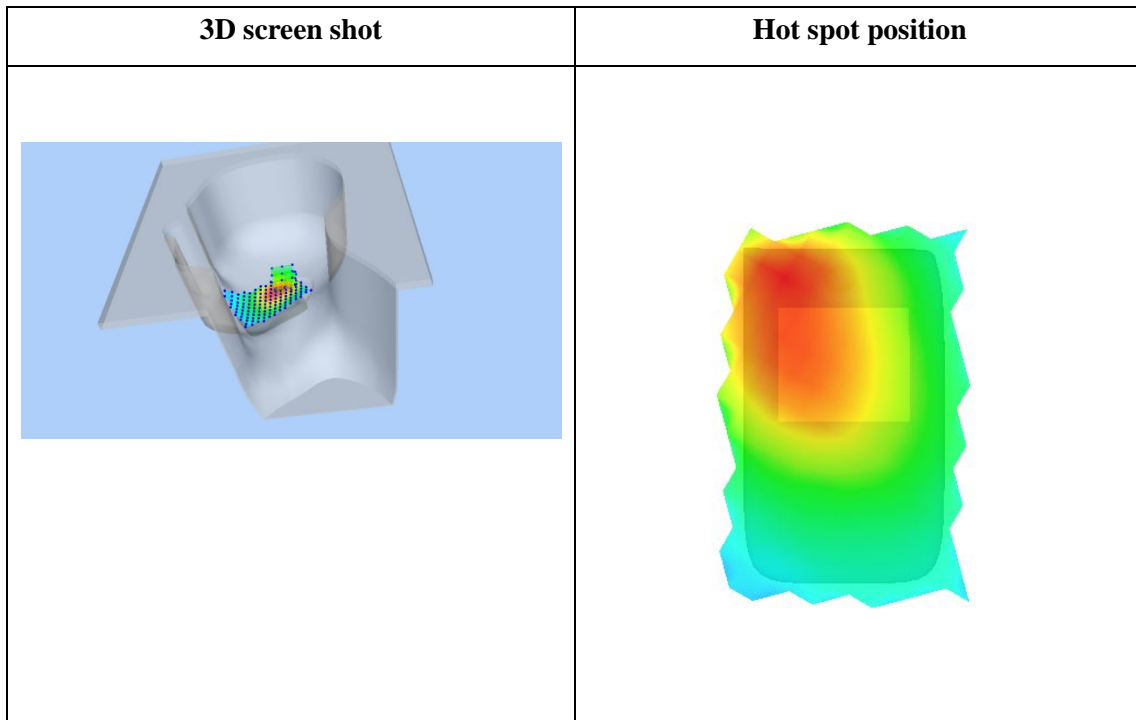
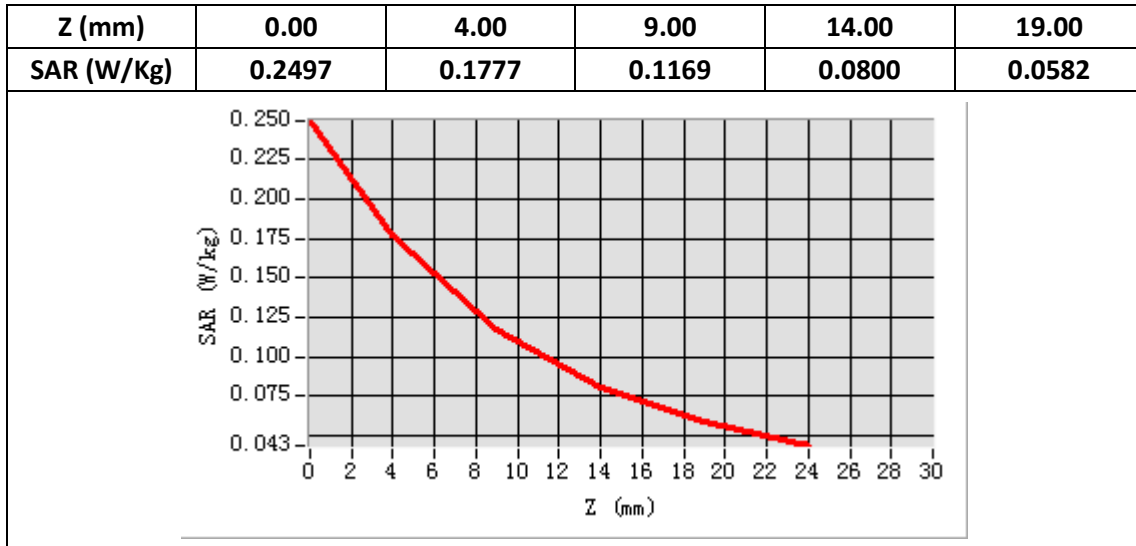
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	710
Relative permittivity (real part)	41.88
Relative permittivity (imaginary)	22.56
Conductivity (S/m)	0.94
Variation (%)	-3.21
ConvF:	1.87



Maximum location: X=-8.00, Y=16.00

SAR Peak: 0.25 W/kg

SAR 10g (W/Kg)	0.116149
SAR 1g (W/Kg)	0.173585



Plot 29: LTE Band17, 10MHz, Face, Middle,10mm

Type: Phone measurement

Date of measurement: 02/19/2020

Measurement duration: 22 minutes 28 seconds

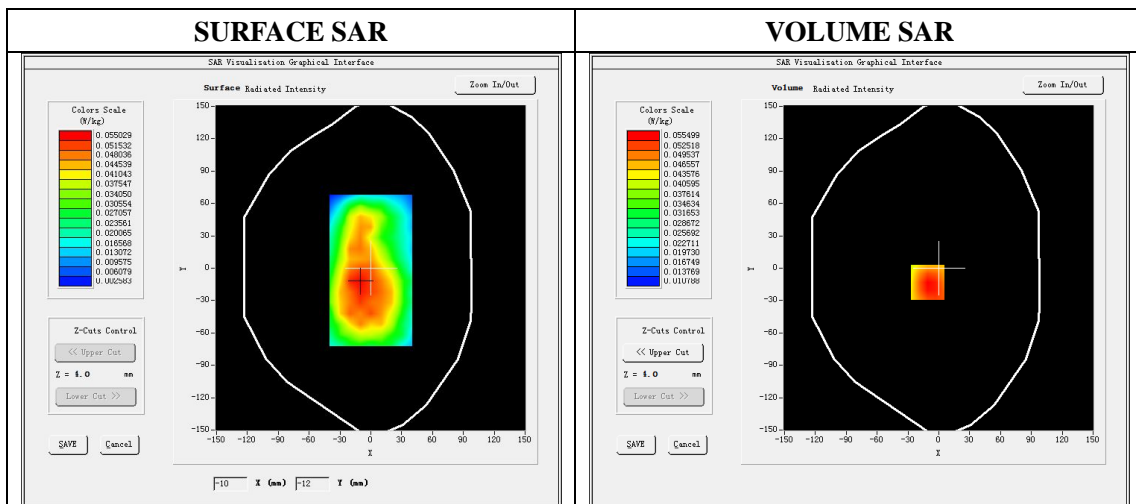
Mobile Phone IMEI number: --

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 17
Channels	23790
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

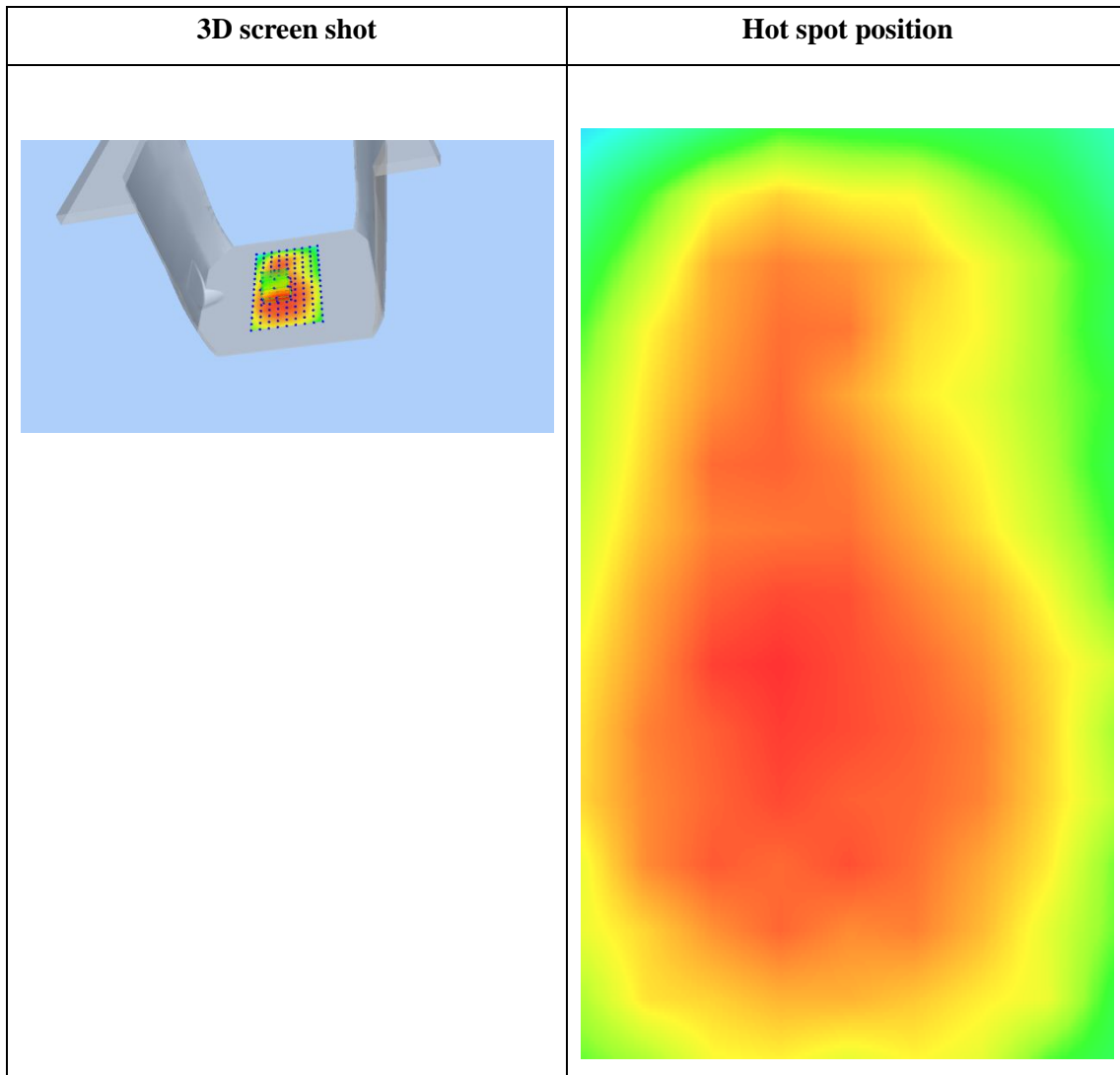
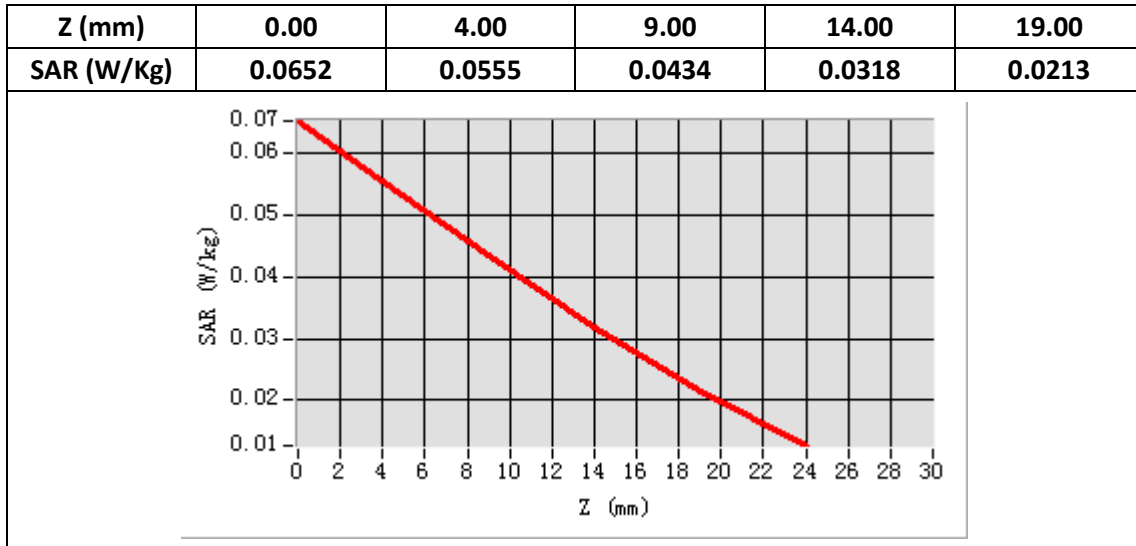
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	710
Relative permittivity (real part)	55.61
Relative permittivity (imaginary)	23.04
Conductivity (S/m)	0.96
Variation (%)	-1.19
ConvF:	1.93



Maximum location: X=-11.00, Y=-13.00

SAR Peak: 0.07W/kg

SAR 10g (W/Kg)	0.040530
SAR 1g (W/Kg)	0.053983



Plot 30: LTE Band17, 10MHz, Edge D, Middle,10mm

Type: Phone measurement

Date of measurement: 02/19/2020

Measurement duration: 22 minutes 30 seconds

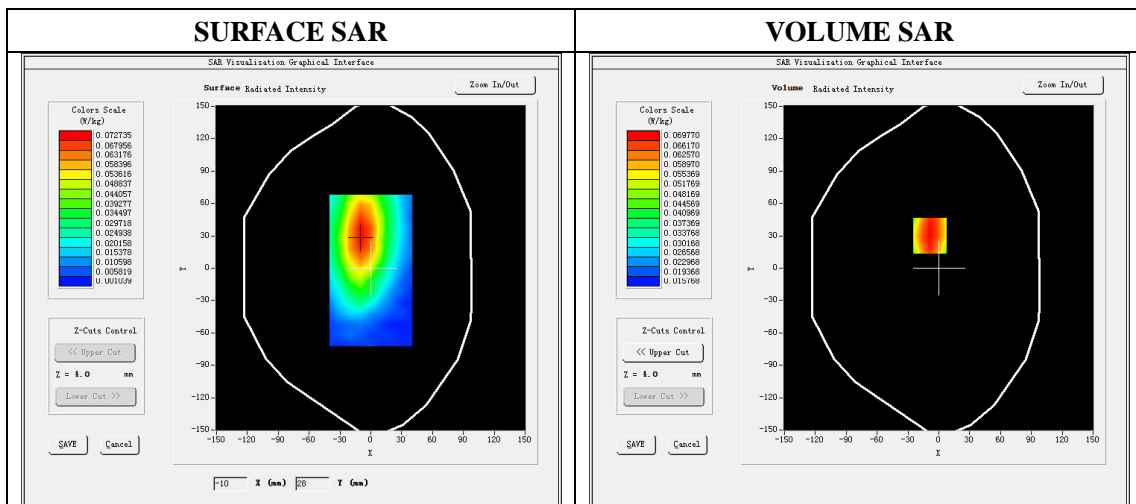
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Edge D
Band	LTE Band 17
Channels	23790
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

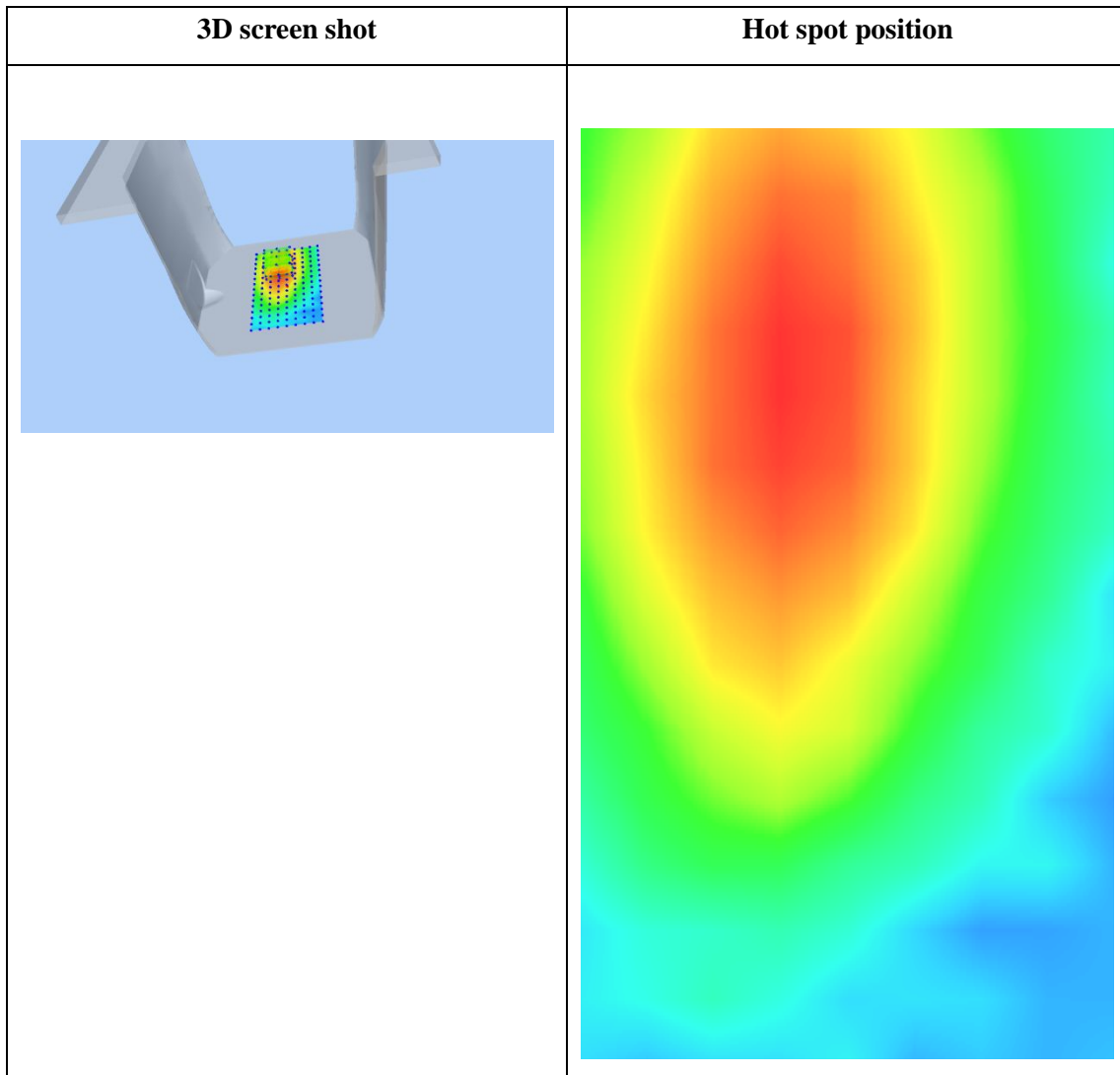
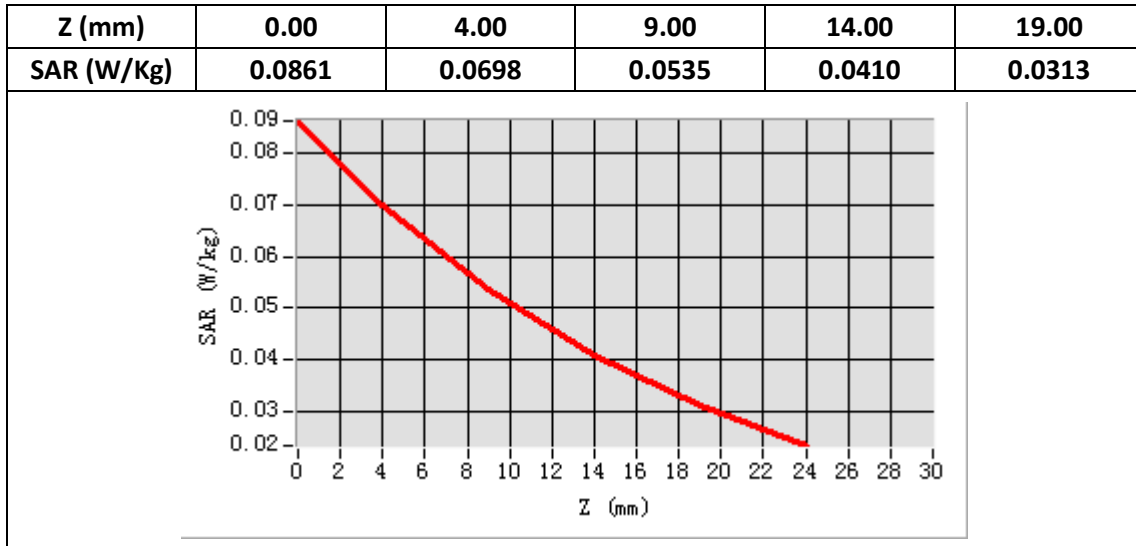
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	710
Relative permittivity (real part)	55.61
Relative permittivity (imaginary)	23.04
Conductivity (S/m)	0.96
Variation (%)	-4.35
ConvF:	1.93



Maximum location: X=-9.00, Y=30.00

SAR Peak: 0.09 W/kg

SAR 10g (W/Kg)	0.049225
SAR 1g (W/Kg)	0.067241



Plot 31: LTE Band26, 10MHz,Right Cheek, Middle

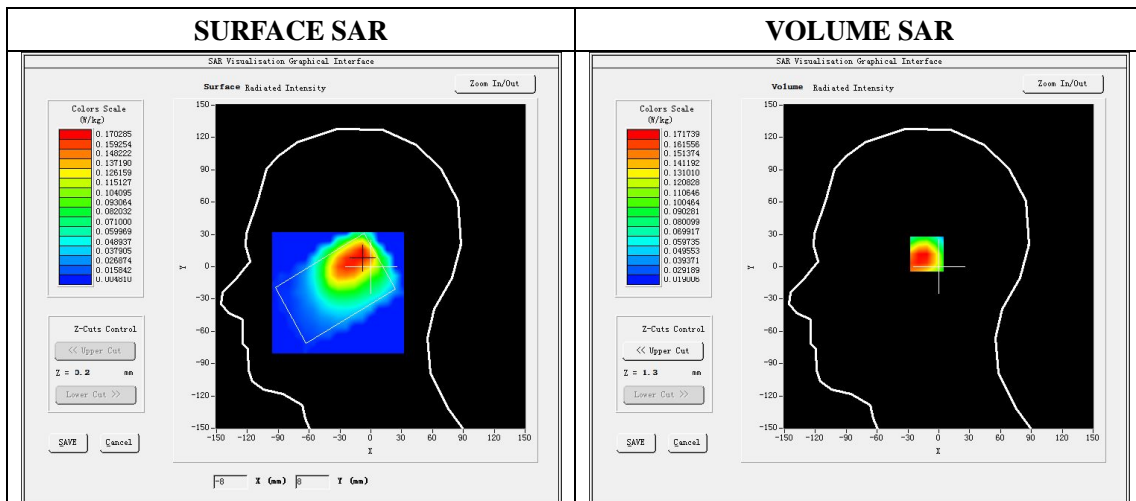
Type: Phone measurement
 Date of measurement: 02/20/2020
 Measurement duration: 22 minutes 31 seconds
 Mobile Phone IMEI number: --

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	LTE Band 26
Channels	26865
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

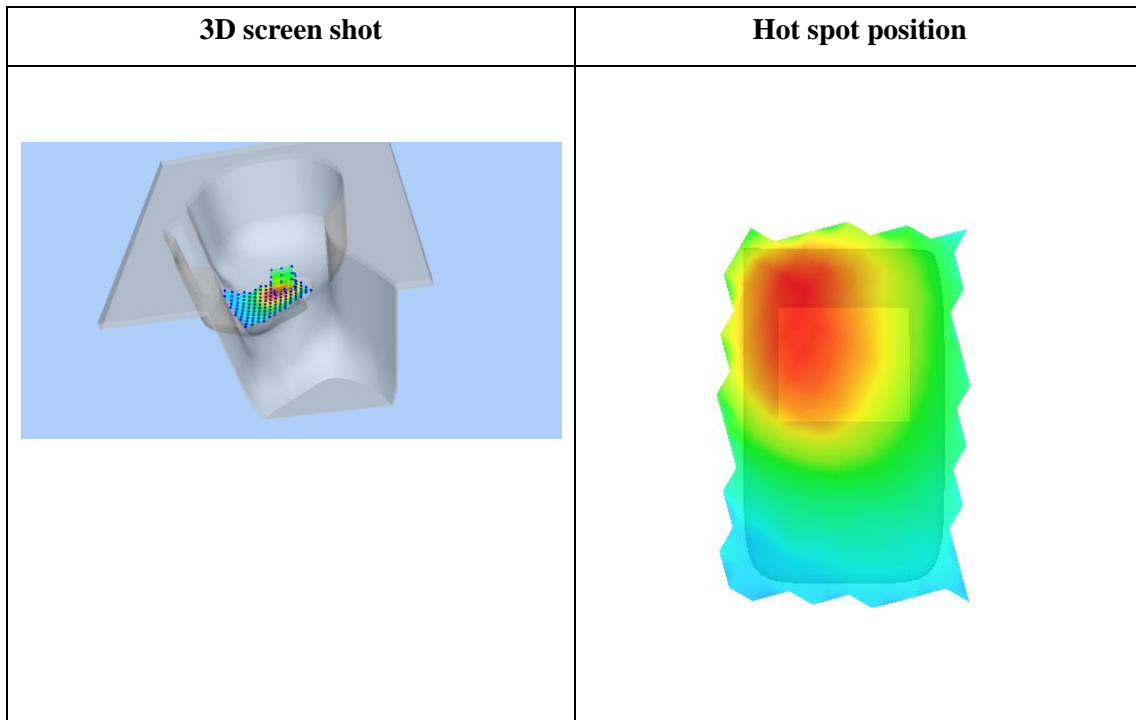
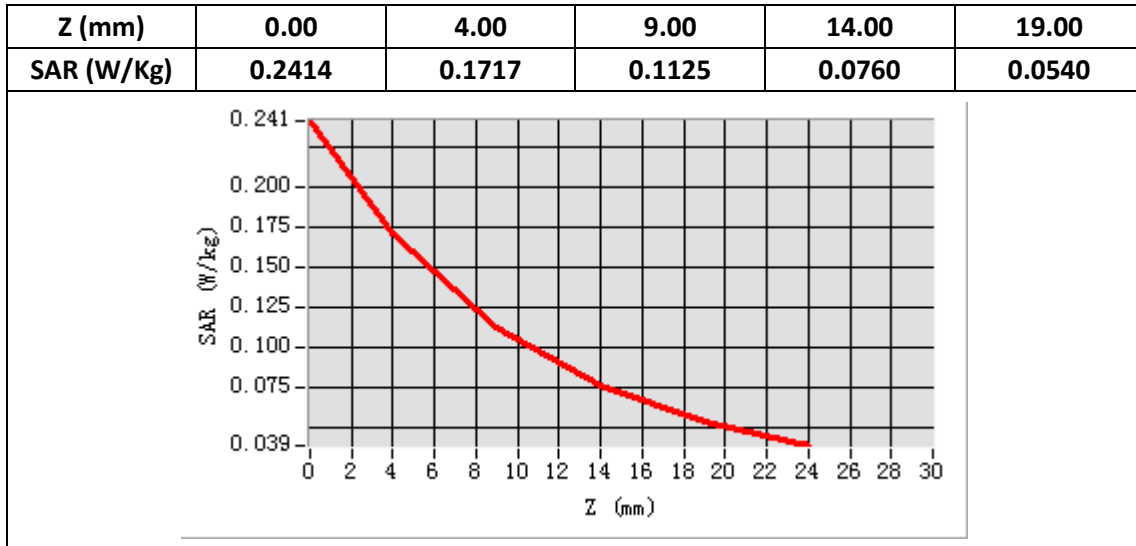
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	831.5
Relative permittivity (real part)	41.56
Relative permittivity (imaginary)	20.91
Conductivity (S/m)	0.97
Variation (%)	-1.19
ConvF:	1.92



Maximum location: X=-9.00, Y=12.00

SAR Peak: 0.25 W/kg

SAR 10g (W/Kg)	0.111632
SAR 1g (W/Kg)	0.169053



Plot 32: LTE Band26, 10MHz, Back, Middle,10mm

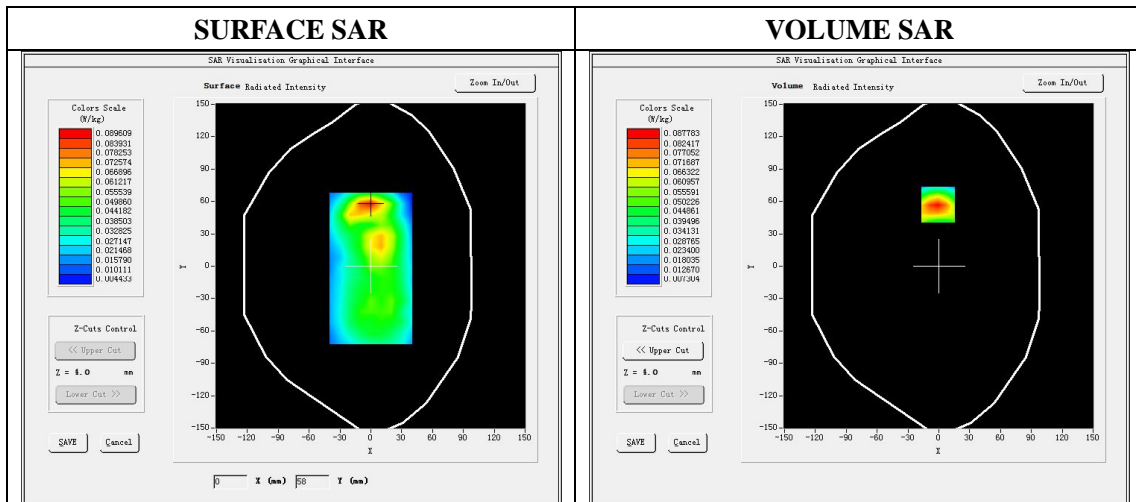
Type: Phone measurement
 Date of measurement: 02/20/2020
 Measurement duration: 22 minutes 33 seconds
 Mobile Phone IMEI number: --

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 26
Channels	26865
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

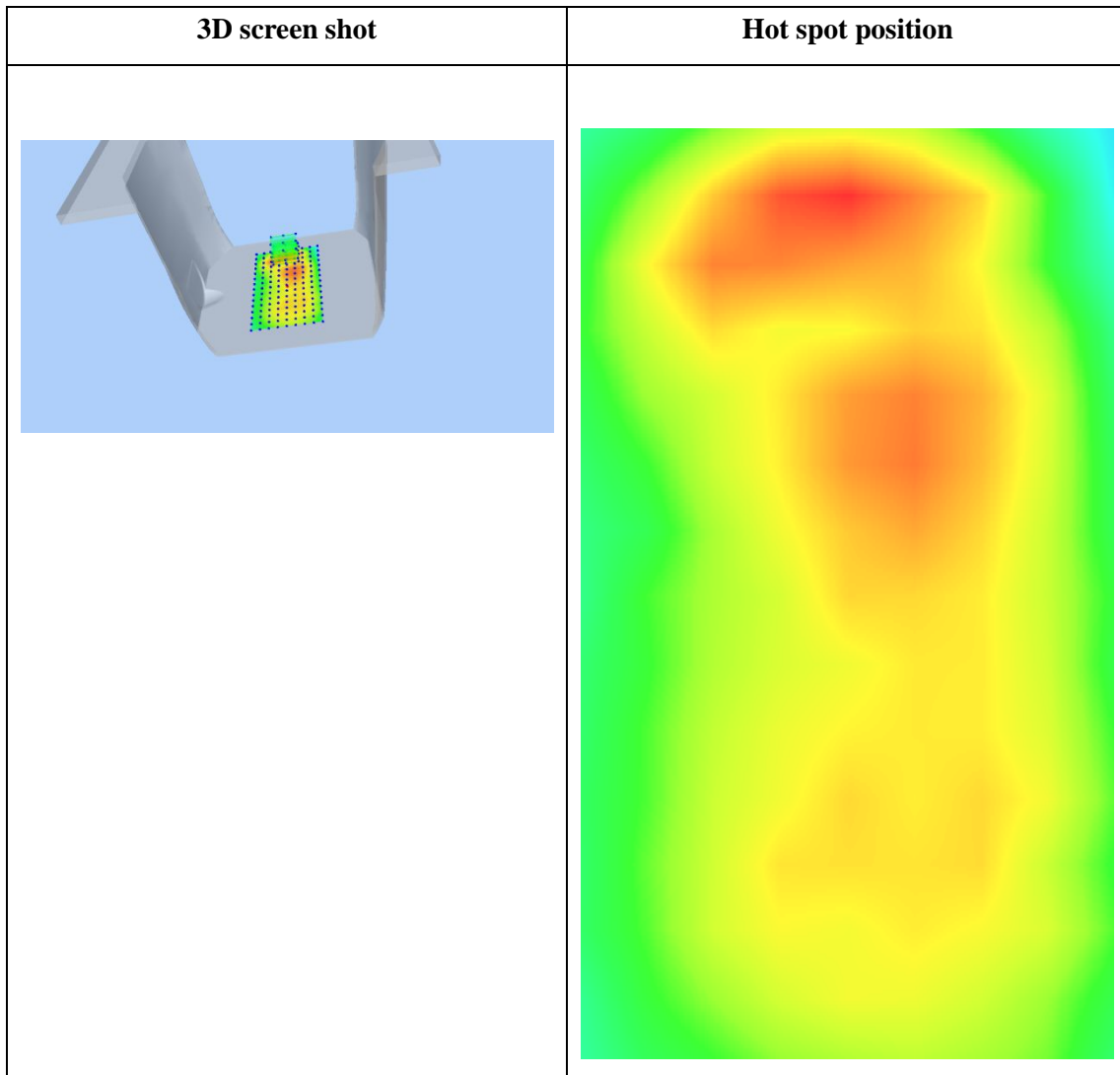
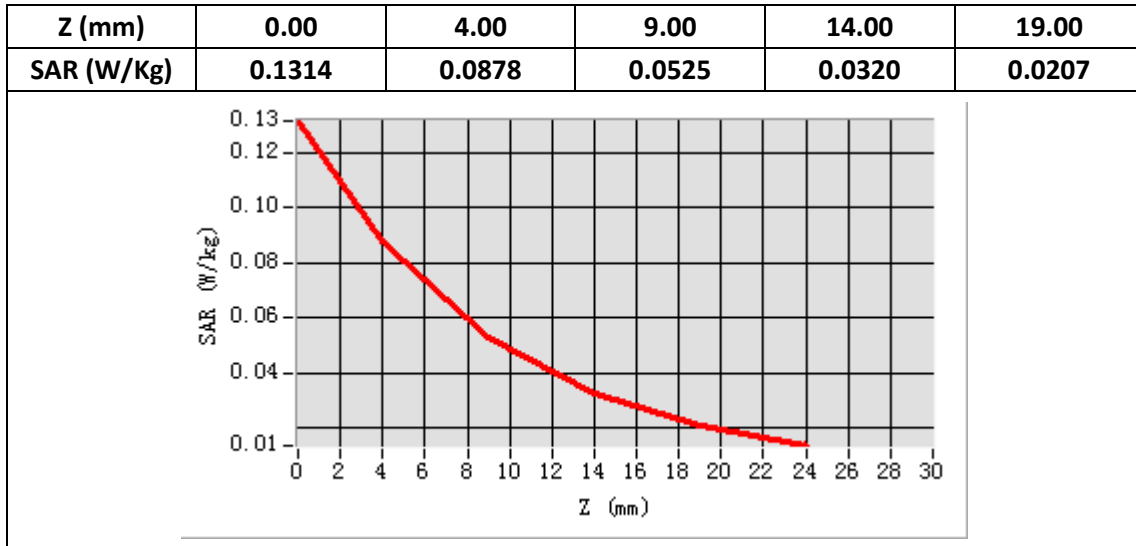
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	831.5
Relative permittivity (real part)	55.30
Relative permittivity (imaginary)	21.34
Conductivity (S/m)	0.99
Variation (%)	-3.39
ConvF:	1.99



Maximum location: X=-1.00, Y=57.00

SAR Peak: 0.13W/kg

SAR 10g (W/Kg)	0.047420
SAR 1g (W/Kg)	0.083431



Plot 33: LTE Band66, 20MHz,Left Cheek, Middle

Type: Phone measurement

Date of measurement: 02/21/2020

Measurement duration: 22 minutes 32 seconds

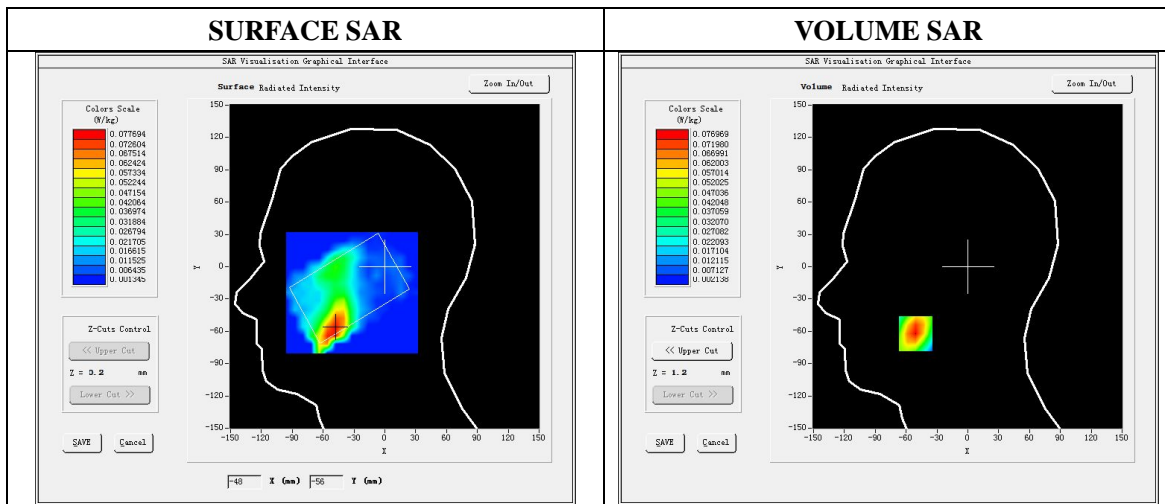
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Left Cheek
Band	LTE Band 66
Channels	132197
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

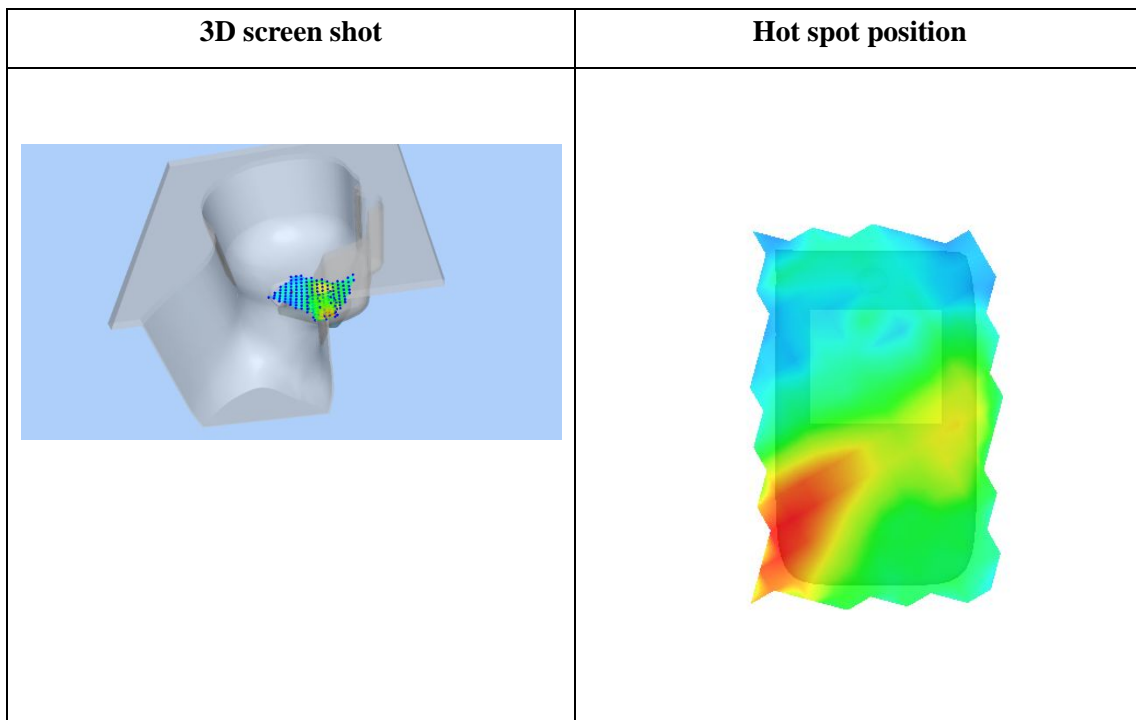
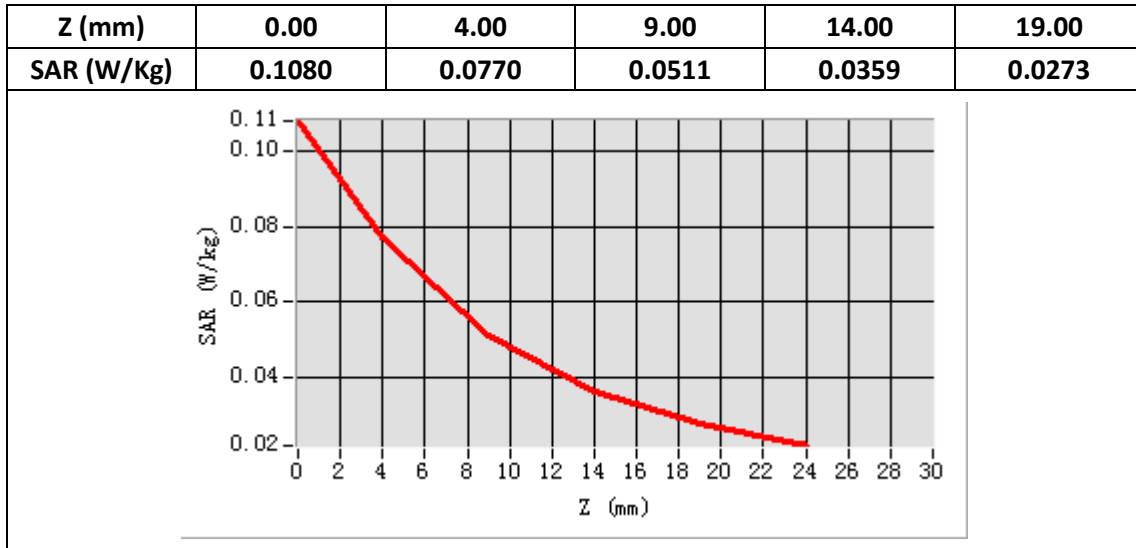
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1732.5
Relative permittivity (real part)	40.42
Relative permittivity (imaginary)	13.80
Conductivity (S/m)	1.38
Variation (%)	-3.05
ConvF:	2.14



Maximum location: X=-51.00, Y=-62.00

SAR Peak: 0.11W/kg

SAR 10g (W/Kg)	0.045208
SAR 1g (W/Kg)	0.072710



Plot 34: LTE Band66, 20MHz, Back, Middle,10mm

Type: Phone measurement

Date of measurement: 02/21/2020

Measurement duration: 22 minutes 34 seconds

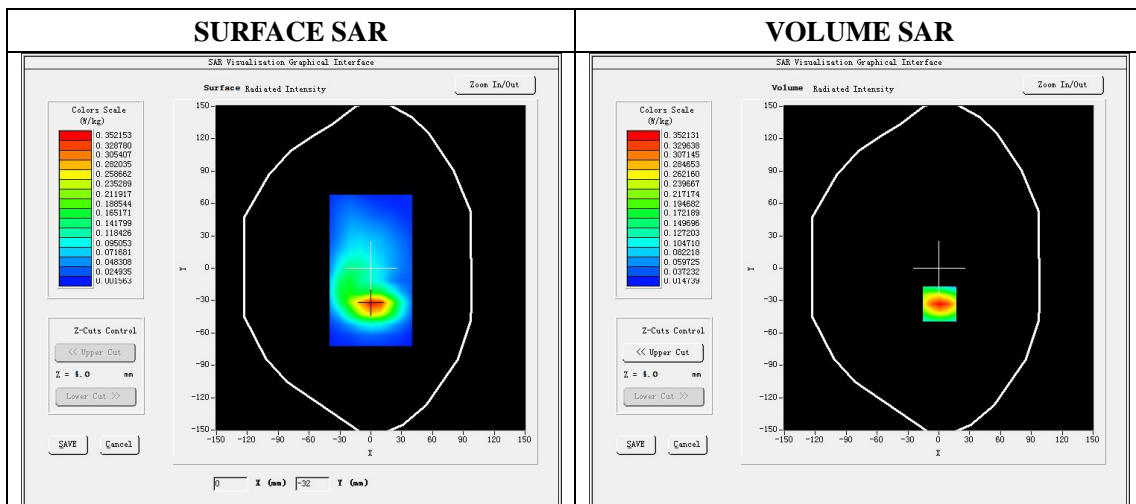
Mobile Phone IMEI number: --

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 66
Channels	132197
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

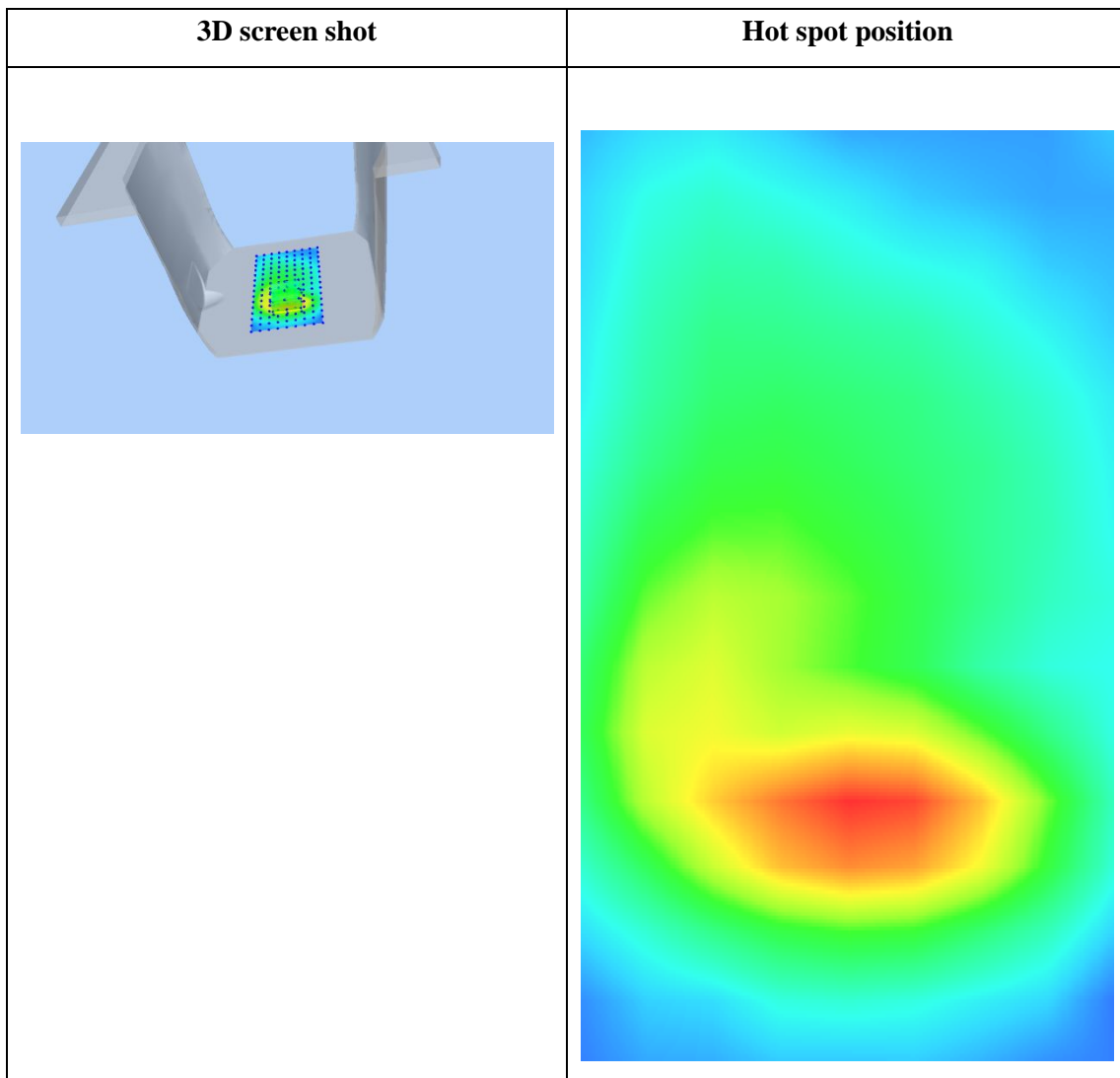
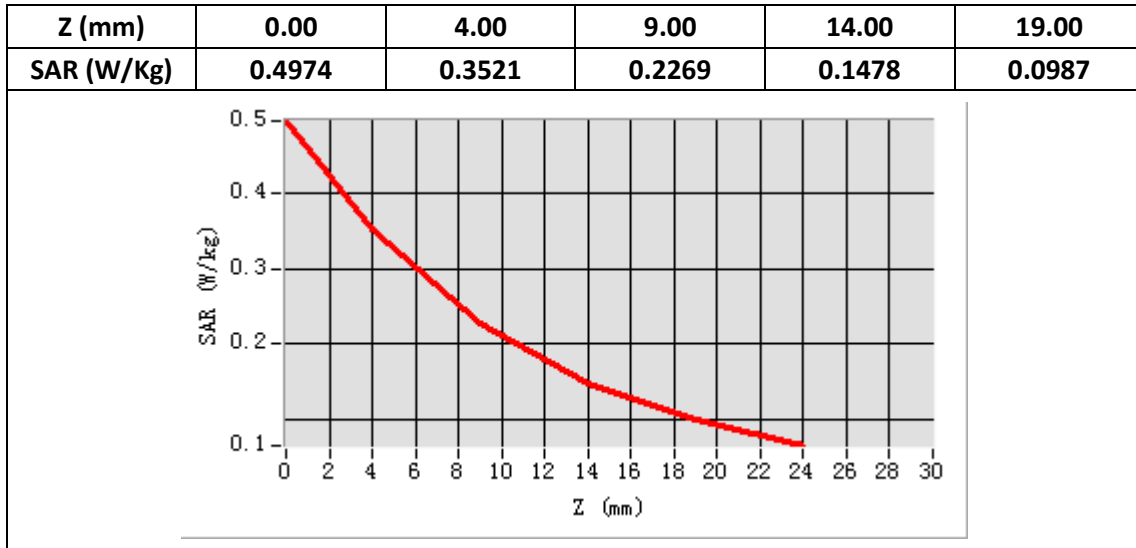
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1732.5
Relative permittivity (real part)	53.37
Relative permittivity (imaginary)	15.00
Conductivity (S/m)	1.50
Variation (%)	-2.92
ConvF:	2.22



Maximum location: X=1.00, Y=-33.00

SAR Peak: 0.50W/kg

SAR 10g (W/Kg)	0.188734
SAR 1g (W/Kg)	0.326644



Plot 35: LTE Band66, 20MHz, Edge C, Middle,10mm

Type: Phone measurement

Date of measurement: 02/21/2020

Measurement duration: 22 minutes 33 seconds

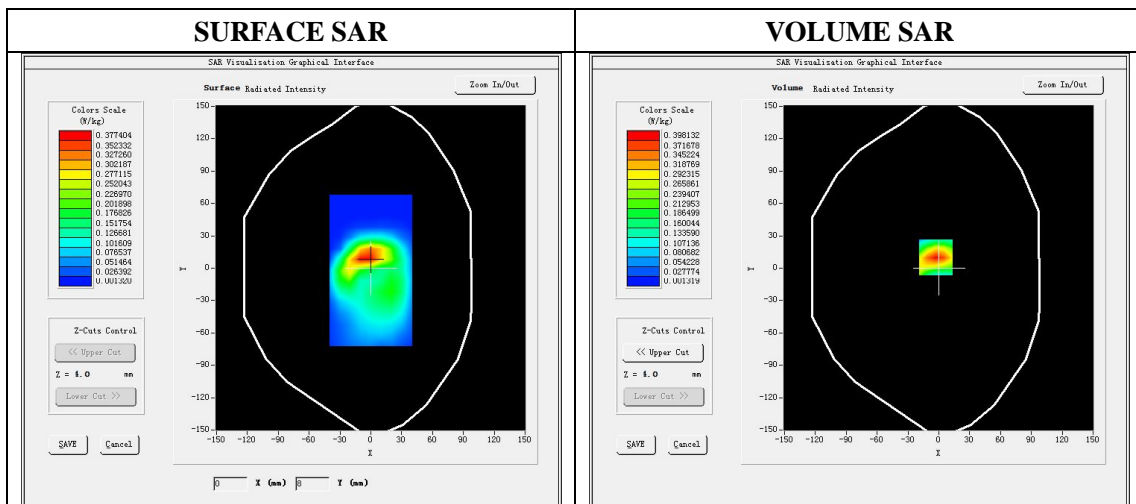
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Edge C
Band	LTE Band 66
Channels	132197
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

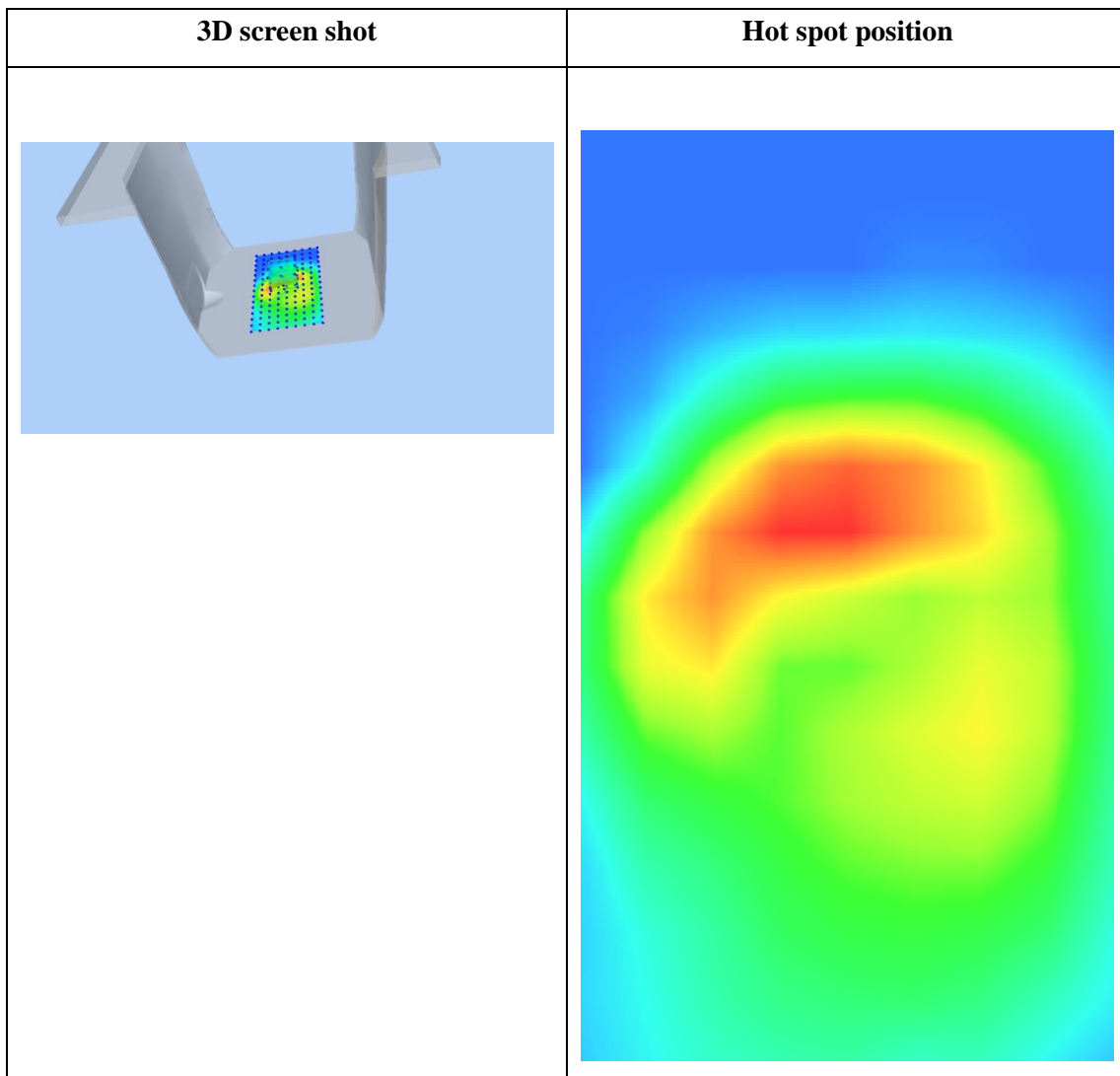
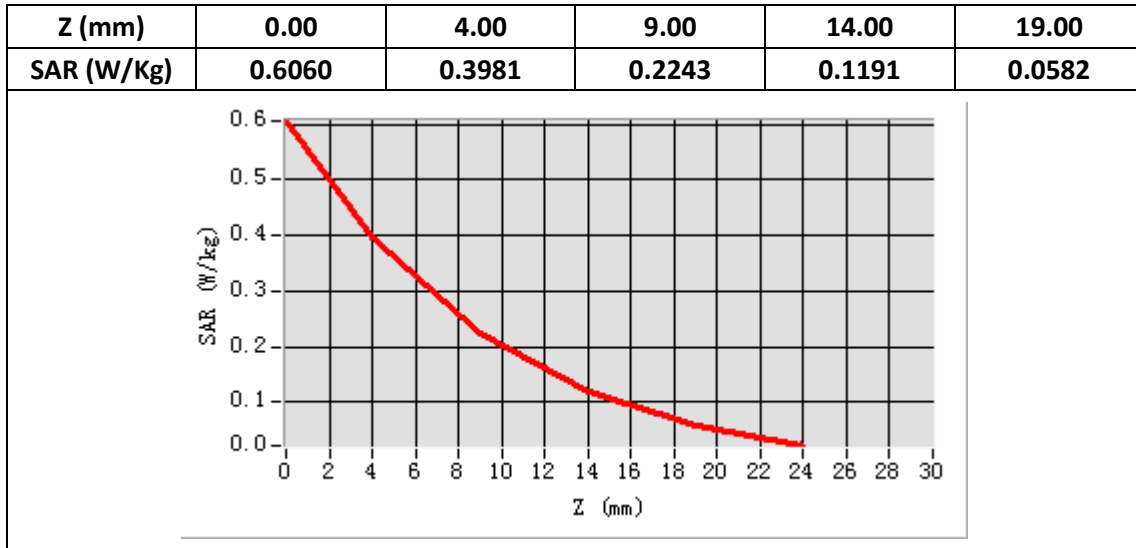
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1732.5
Relative permittivity (real part)	53.37
Relative permittivity (imaginary)	15.00
Conductivity (S/m)	1.50
Variation (%)	
ConvF:	2.22



Maximum location: X=-3.00, Y=10.00

SAR Peak: 0.61W/kg

SAR 10g (W/Kg)	0.187382
SAR 1g (W/Kg)	0.365518



Plot 36: Wi-Fi 802.11b Right Cheek, Middle

Type: Phone measurement

Date of measurement: 02/24/2020

Measurement duration: 22 minutes 36 seconds

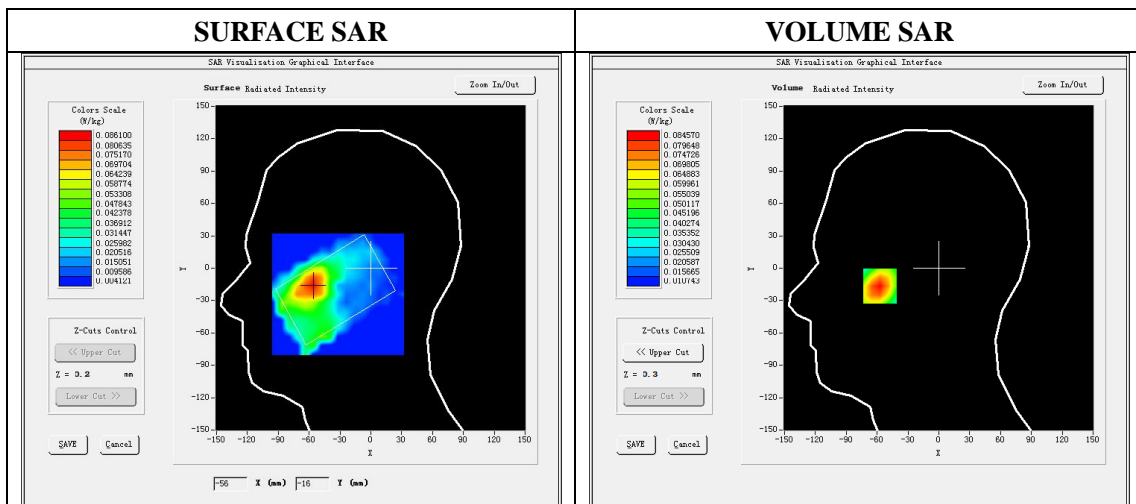
Mobile Phone IMEI number: --

A. Experimental conditions.

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

B. SAR Measurement Results

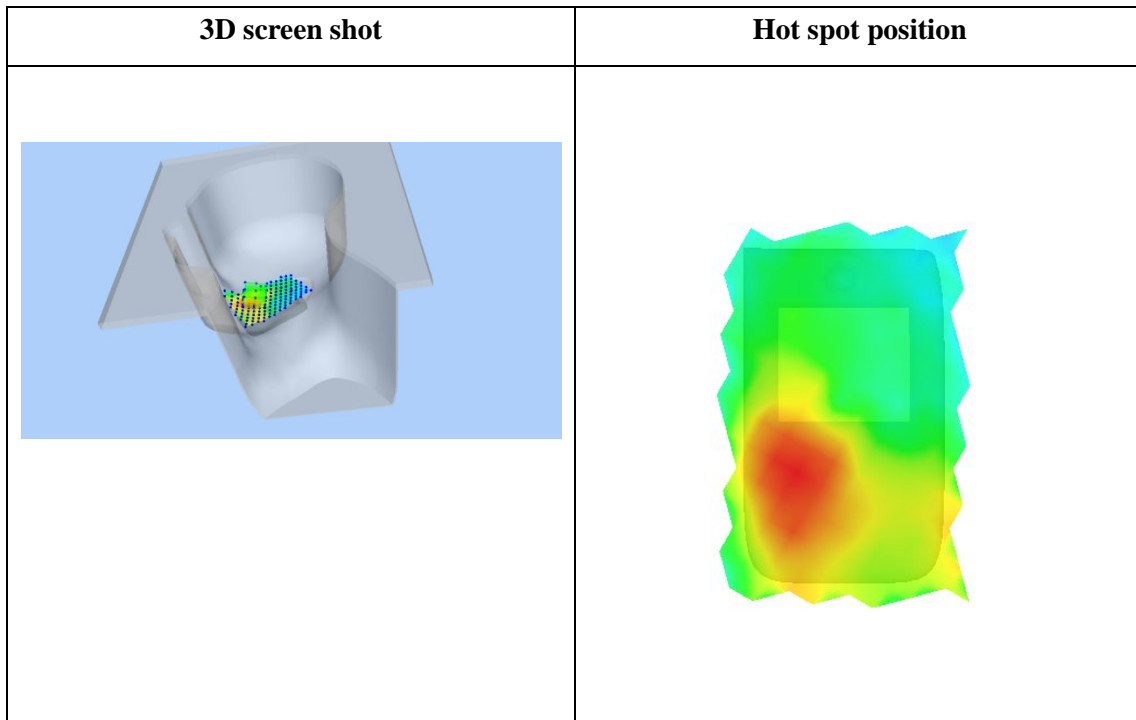
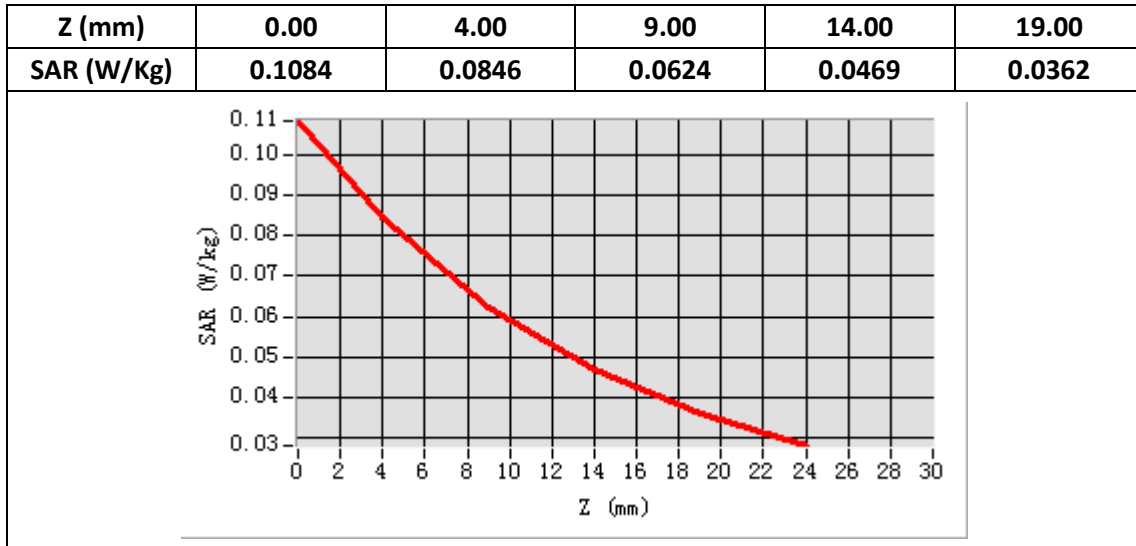
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	2437
Relative permittivity (real part)	39.30
Relative permittivity (imaginary)	13.37
Conductivity (S/m)	1.82
Variation (%)	-2.86
ConvF:	2.37



Maximum location: X=-57.00 Y=-16.00

SAR Peak: 0.11 W/kg

SAR 10g (W/Kg)	0.055067
SAR 1g (W/Kg)	0.082057



Plot 37: Wi-Fi 802.11b, Back ,Middle, 10mm

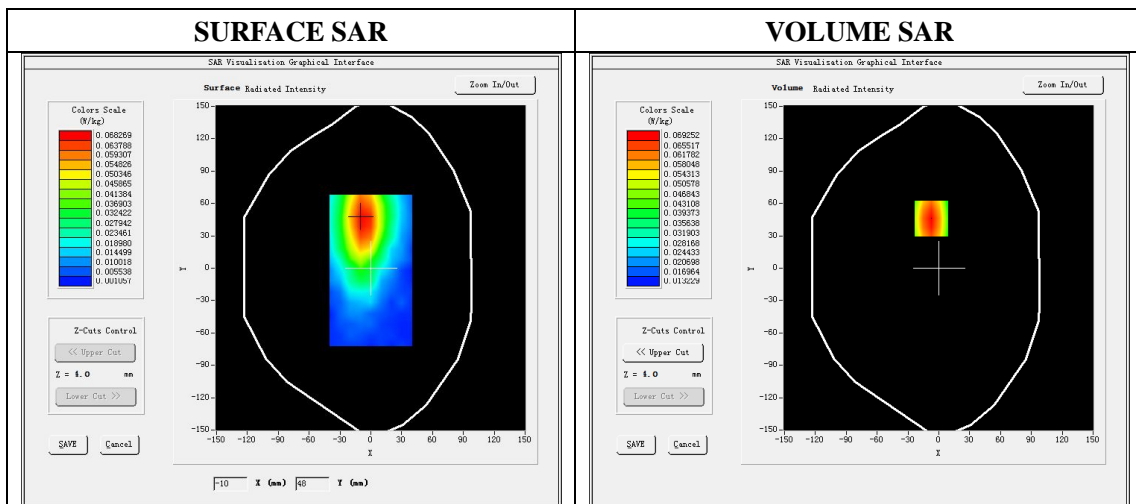
Type: Phone measurement
 Date of measurement: 02/24/2020
 Measurement duration: 22 minutes 35 seconds
 Mobile Phone IMEI number: --

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

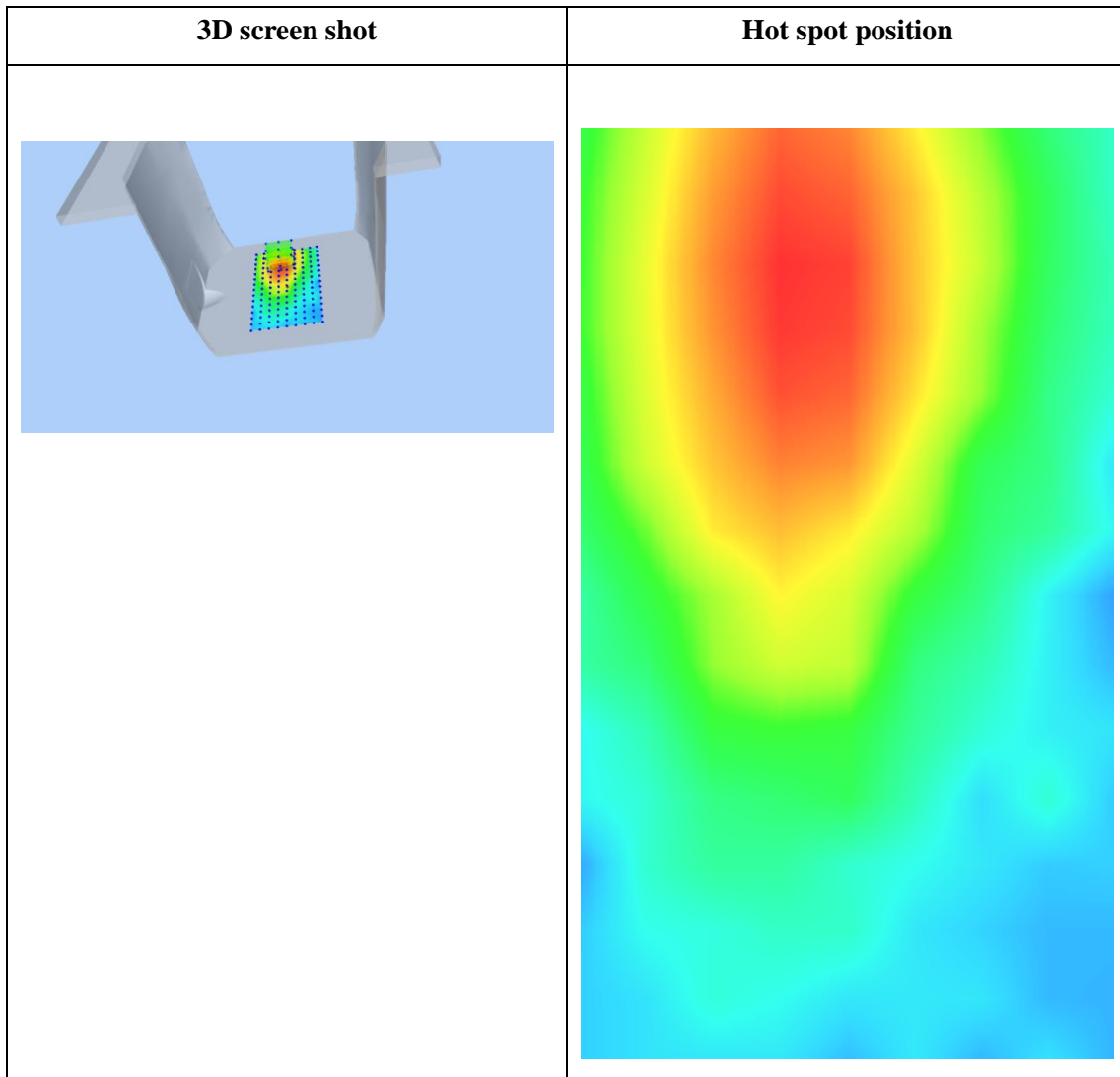
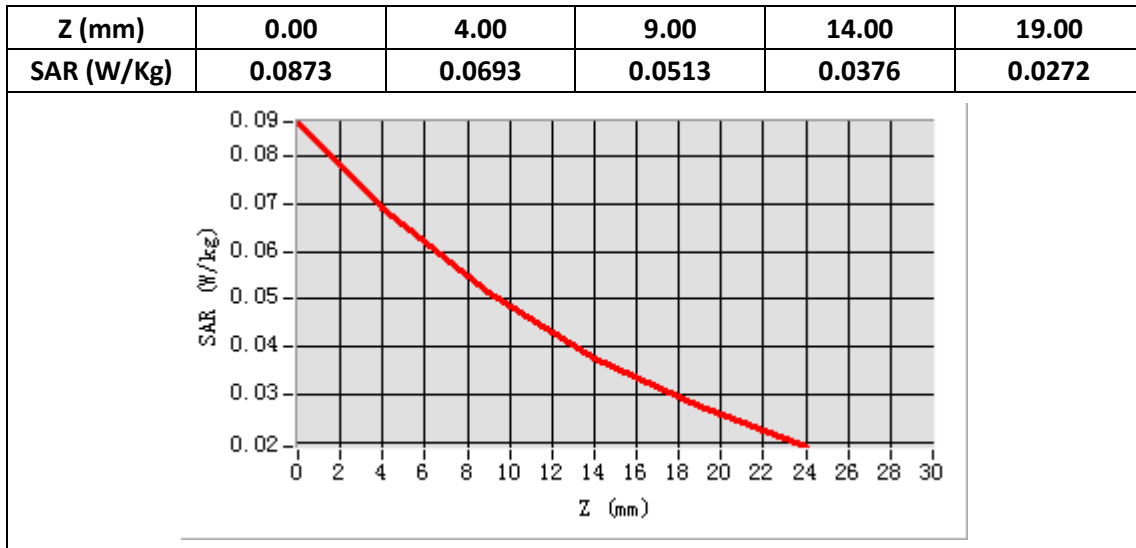
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	2437
Relative permittivity (real part)	52.74
Relative permittivity (imaginary)	14.47
Conductivity (S/m)	1.97
Variation (%)	-3.32
ConvF:	2.46



Maximum location: X=-7.00 Y=46.00

SAR Peak: 0.09 W/kg

SAR 10g (W/Kg)	0.046536
SAR 1g (W/Kg)	0.067235



Plot 38: WIFI 5G 802.11a(20MHZ), Left Tilt 15° , Middle

Type: Phone measurement

Date of measurement: 02/26/2020

Measurement duration: 22 minutes 38 seconds

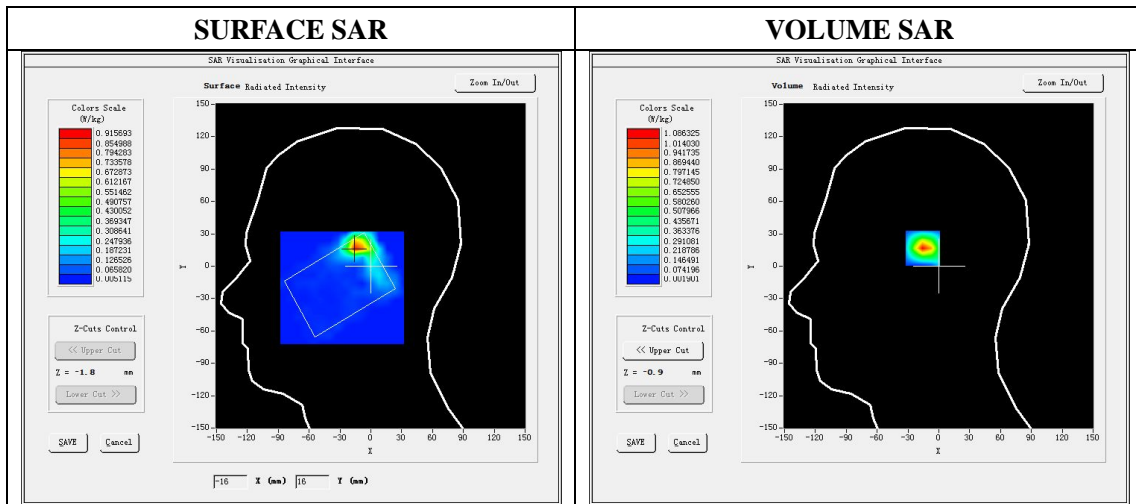
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=4mm,dy=4mm
ZoomScan	7x7x12,dx=4m, dy=4mm, dz=2mm
Phantom	Validation plane
Device Position	Left Tilt 15°
Band	WIFI 5G
Channels	36
Signal	OFDM (Duty cycle: 1:1)

B. SAR Measurement Results

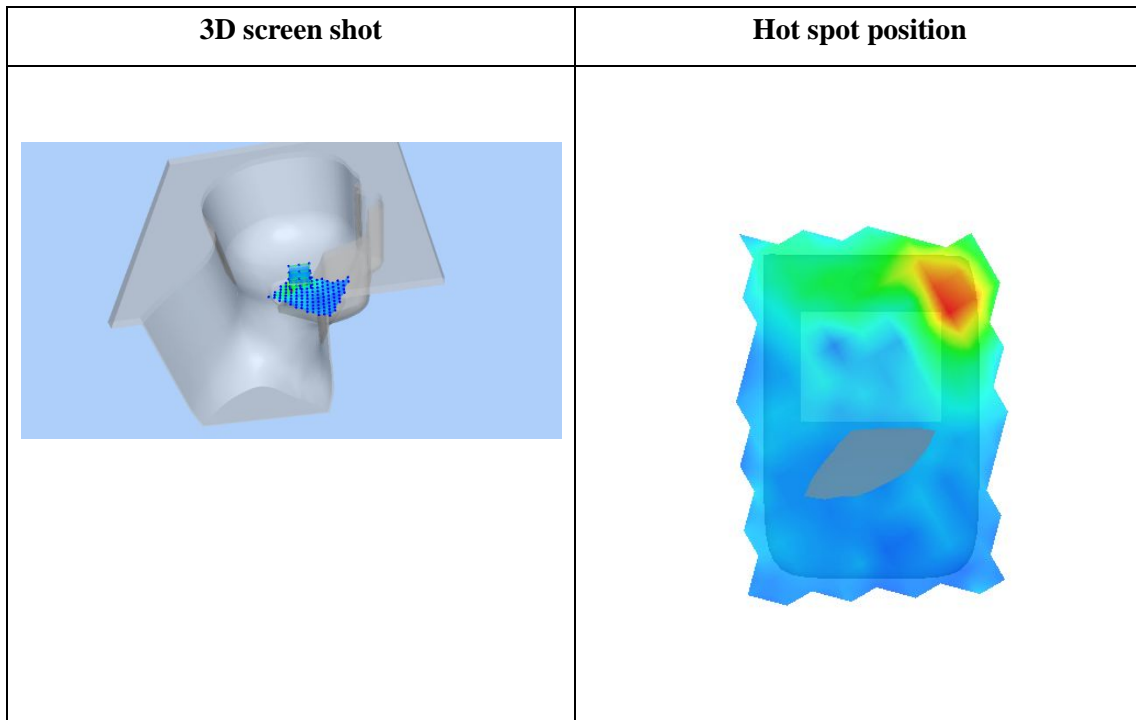
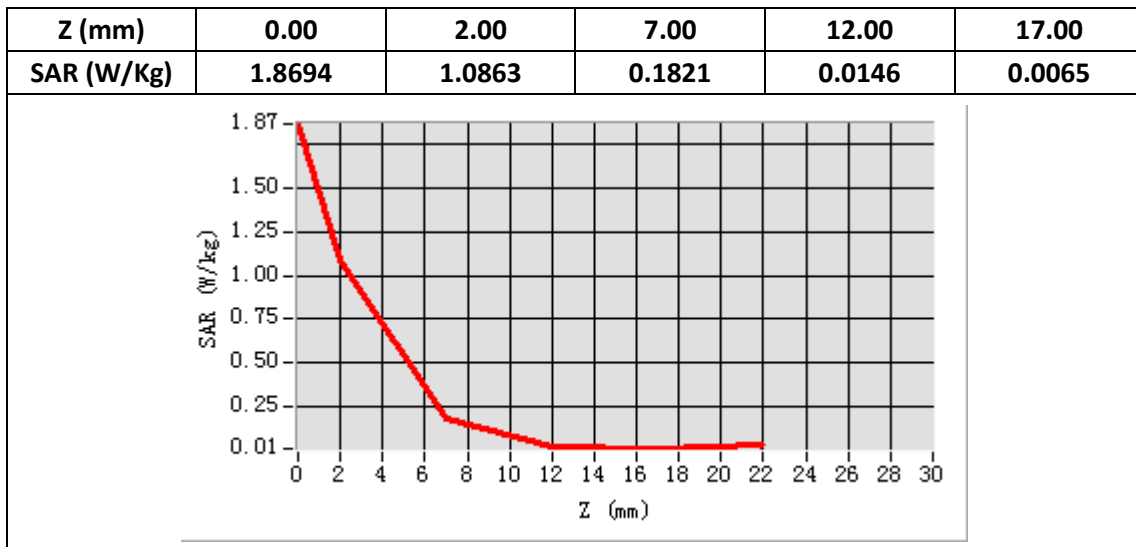
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	5180
Relative permittivity (real part)	36.29
Relative permittivity (imaginary)	16.10
Conductivity (S/m)	4.65
Variation (%)	-4.53
ConvF:	2.15



Maximum location: X=-14.00 Y=18.00

SAR Peak: 3.03 W/kg

SAR 10g (W/Kg)	0.368754
SAR 1g (W/Kg)	1.093859



Plot 39: WIFI 5G 802.11a(20MHz), Back , Middle,10mm

Type: Phone measurement

Date of measurement: 02/26/2020

Measurement duration: 22 minutes 39 seconds

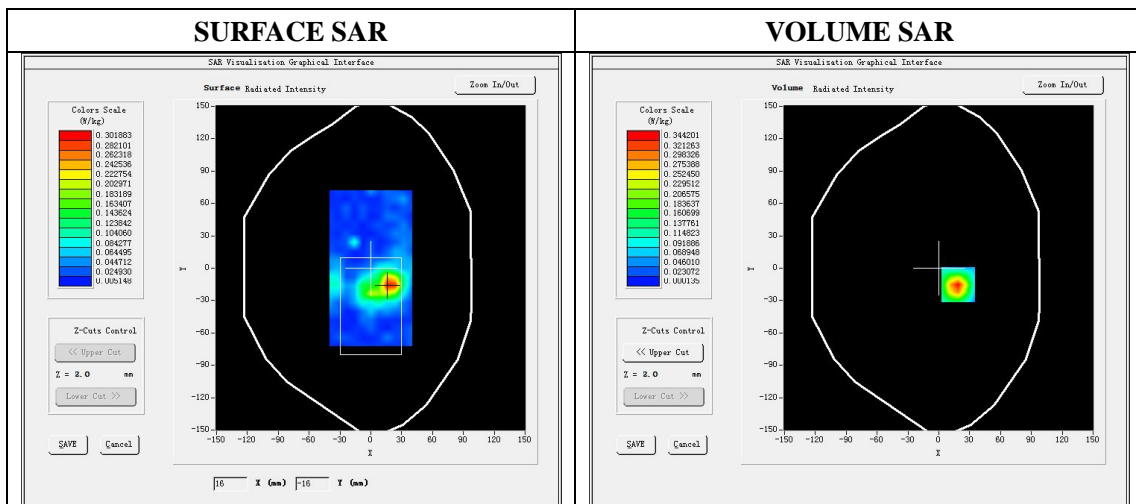
Mobile Phone IMEI number: --

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	36
Signal	OFDM (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	5180
Relative permittivity (real part)	50.18
Relative permittivity (imaginary)	18.07
Conductivity (S/m)	5.22
Variation (%)	-4.40
ConvF:	2.21



Maximum location: X=19.00 Y=-15.00

SAR Peak: 0.61 W/kg

SAR 10g (W/Kg)	0.081119
SAR 1g (W/Kg)	0.207064

