



Appendix A: SAR System performance Check Plots

Measurement	Frequency	Test Date
System Check	750	2021-11-18
System Check	835	2021-11-19
System Check	1800	2021-11-14
System Check	1900	2021-11-06
System Check	2450	2021-11-04
System Check	2600	2021-11-04

System Performance Check (Head, 750MHz)

Type: Phone measurement

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

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

Date of measurement: 11/18/2021

Measurement duration: 22 minutes 02 seconds

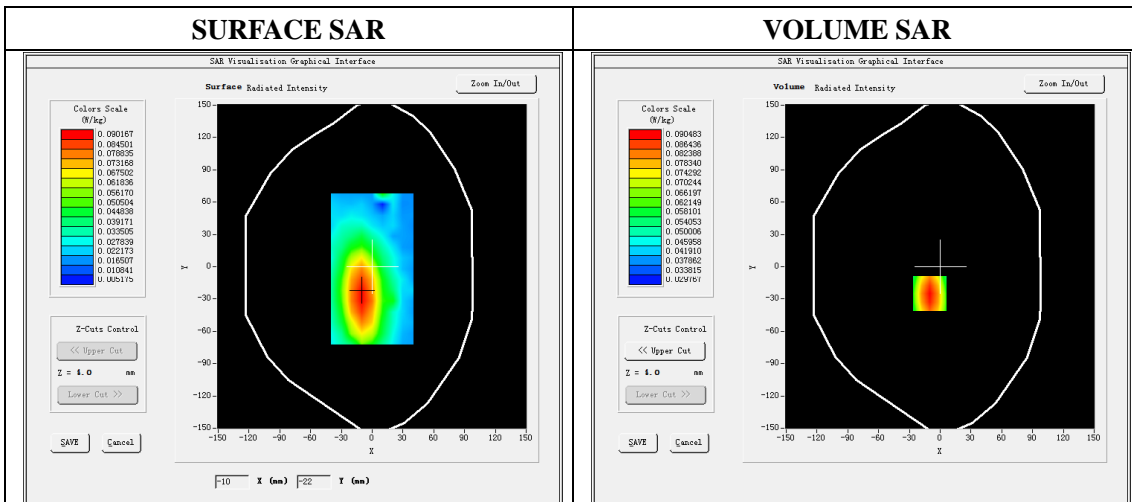
A. Experimental conditions.

Phantom File	dx=8mm dy=8mm
Phantom	5x5x7,dx=8mm dy=8mm dz=5mm
Device Position	Dipole
Band	750MHz
Channels	
Signal	CW

B. SAR Measurement Results

Band SAR

E-Field Probe	SATIMO SN_36/20_EPGO348
Frequency (MHz)	750
Relative permittivity (real part)	42.72
Relative permittivity	22.18
Conductivity (S/m)	0.91
Power drift (%)	-1.29
Ambient Temperature:	22.5 °C
Liquid Temperature:	22.8 °C
ConvF:	1.78
Crest factor:	1:1

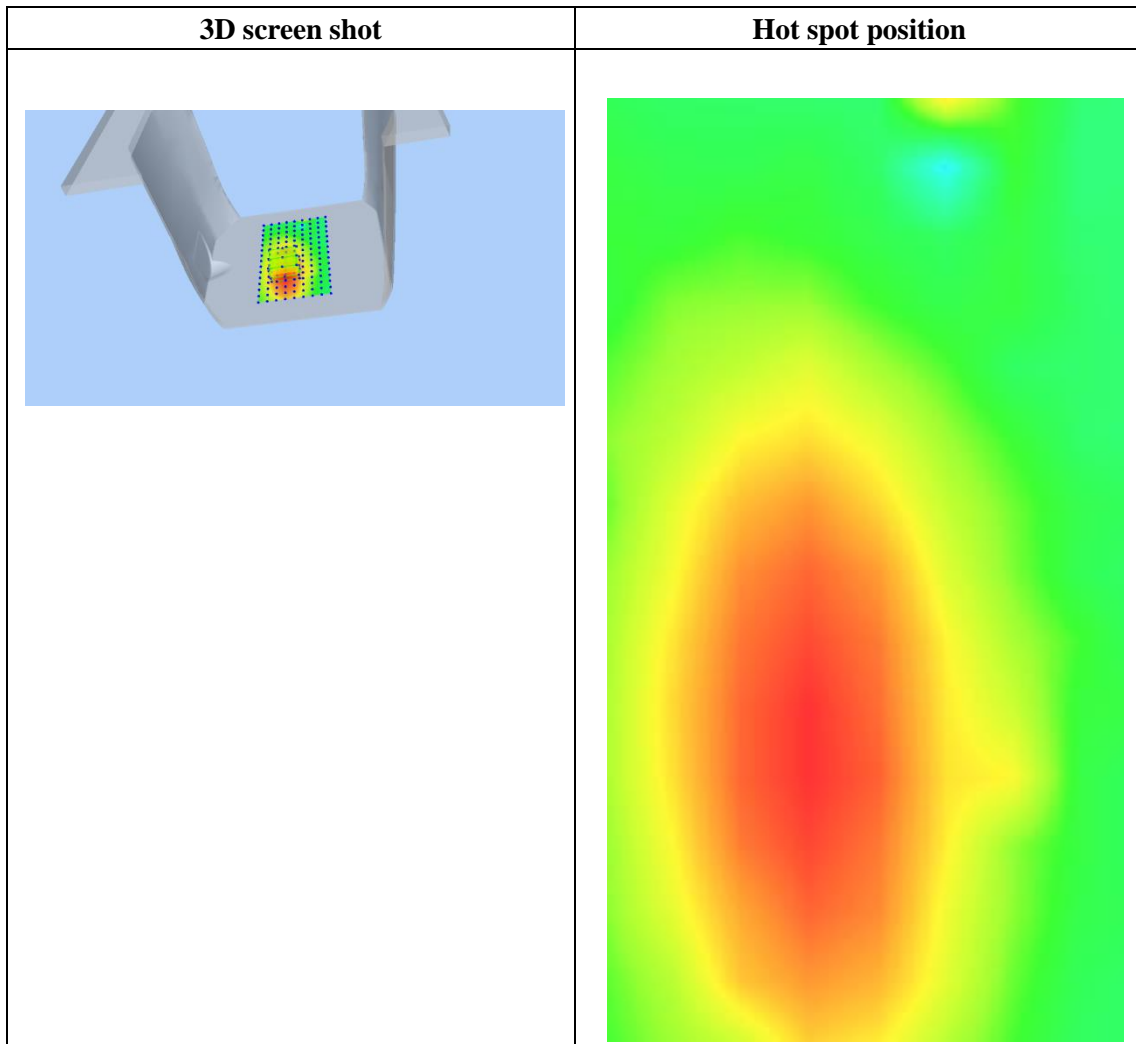
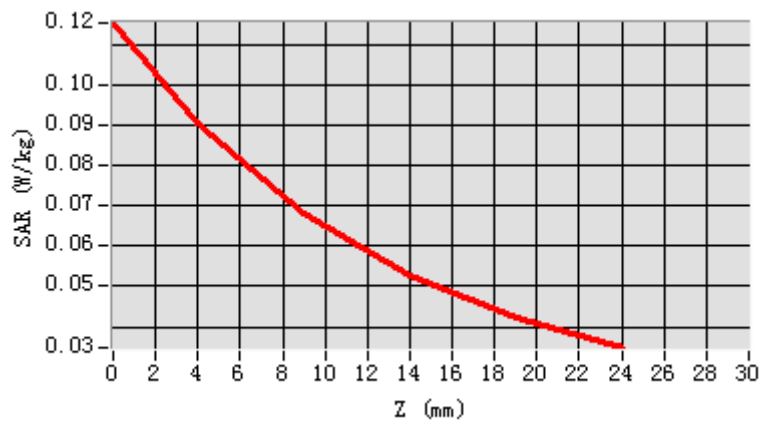


Maximum location: X=-10.00, Y=-25.00

SAR Peak: 0.12 W/kg

SAR 10g (W/Kg)	0.058261
SAR 1g (W/Kg)	0.084826

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.1152	0.0905	0.0678	0.0526	0.0424



System Performance Check (Head, 835MHz)

Type: Phone measurement

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

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

Date of measurement: 11/19/2021

Measurement duration: 22 minutes 08 seconds

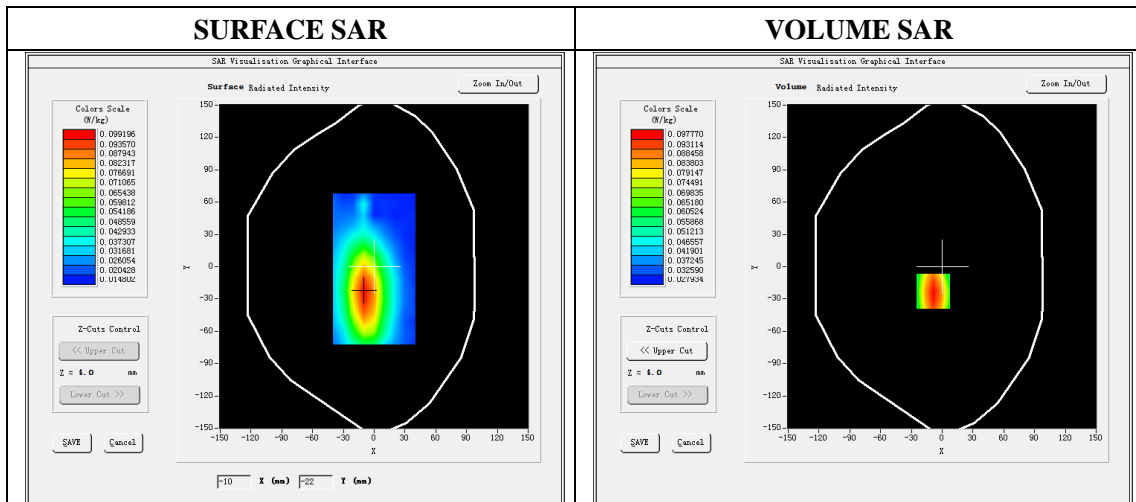
A. Experimental conditions.

Phantom File	dx=8mm dy=8mm
Phantom	5x5x7,dx=8mm dy=8mm dz=5mm
Device Position	Dipole
Band	835MHz
Channels	
Signal	CW

B. SAR Measurement Results

Band SAR

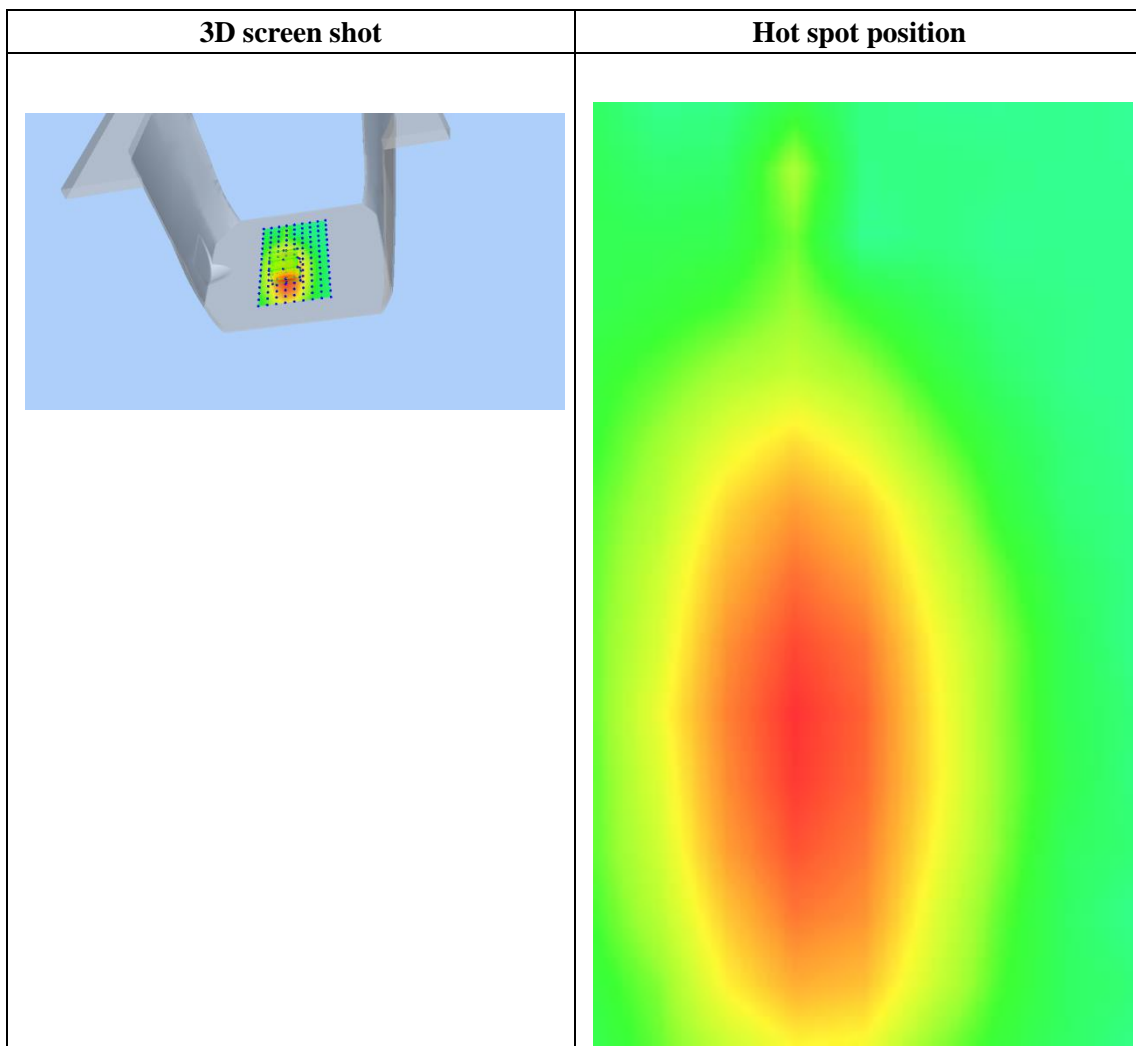
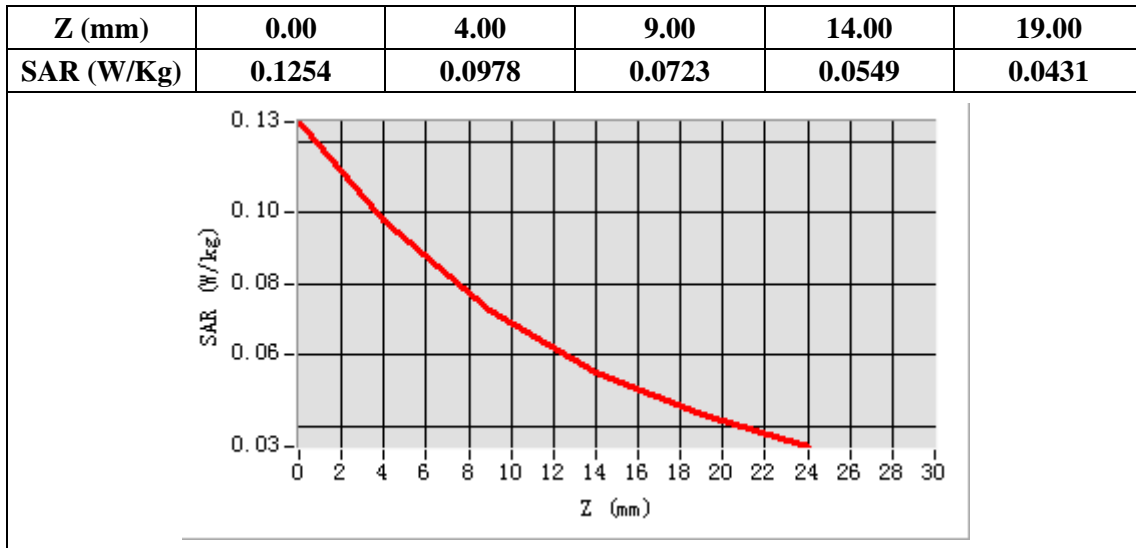
E-Field Probe	SATIMO SN_36/20_EPGO348
Frequency (MHz)	835
Relative permittivity (real part)	41.87
Relative permittivity	19.72
Conductivity (S/m)	0.98
Power drift (%)	-1.82
Ambient Temperature:	22.6 °C
Liquid Temperature:	22.8 °C
ConvF:	1.86
Crest factor:	1:1



Maximum location: X=-9.00, Y=-23.00

SAR Peak: 0.13 W/kg

SAR 10g (W/Kg)	0.060519
SAR 1g (W/Kg)	0.097425



System Performance Check (Head, 1800MHz)

Type: Validation measurement

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

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

Date of measurement: 11/14/2021

Measurement duration: 22 minutes 06 seconds

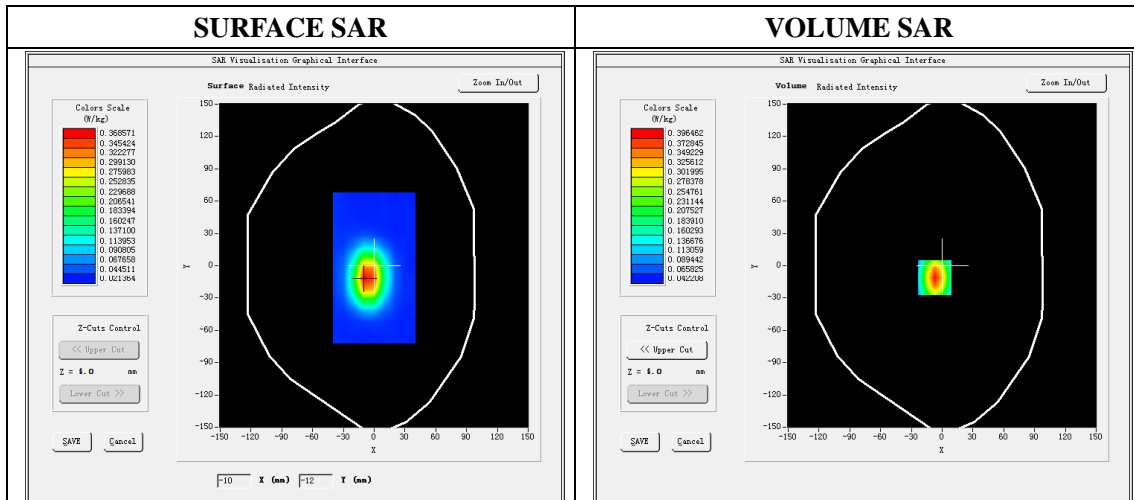
A. Experimental conditions.

Phantom File	dx=8mm dy=8mm
Phantom	5x5x7,dx=8mm dy=8mm dz=5mm
Device Position	Dipole
Band	1800MHz
Channels	
Signal	CW

B. SAR Measurement Results

Band SAR

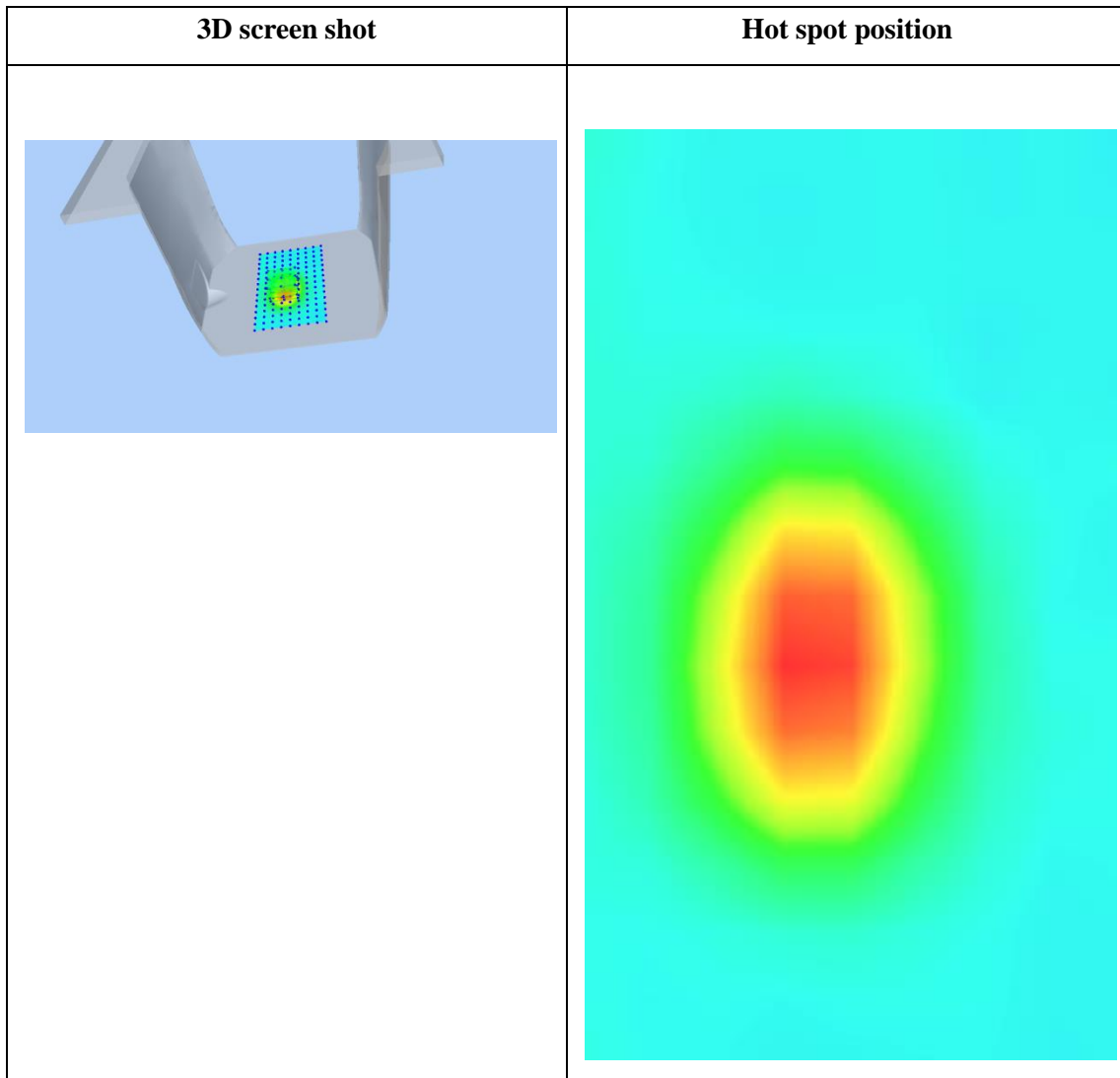
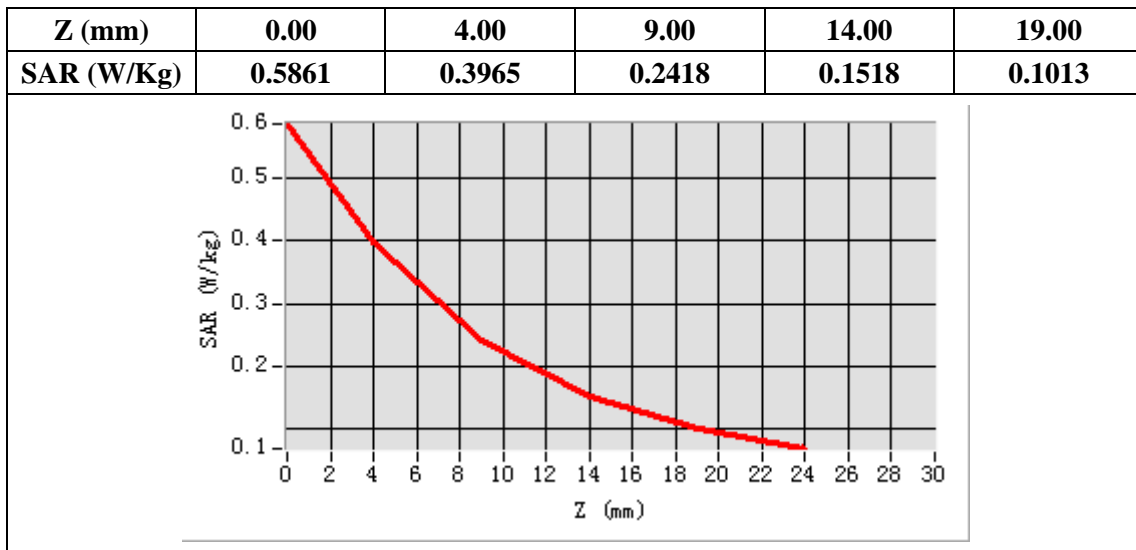
E-Field Probe	SATIMO SN_36/20_EPGO348
Frequency (MHz)	1800
Relative permittivity (real part)	40.25
Relative permittivity	14.43
Conductivity (S/m)	1.39
Power Drift (%)	1.46
Ambient Temperature:	22.0 °C
Liquid Temperature:	22.3 °C
ConvF:	2.04
Duty factor:	1:1



Maximum location: X=-7.00, Y=-11.00

SAR Peak: 0.59 W/kg

SAR 10g (W/Kg)	0.200684
SAR 1g (W/Kg)	0.376217



System Performance Check (Head, 1900MHz)

Type: Validation measurement

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

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

Date of measurement: 11/06/2021

Measurement duration: 22 minutes 01 seconds

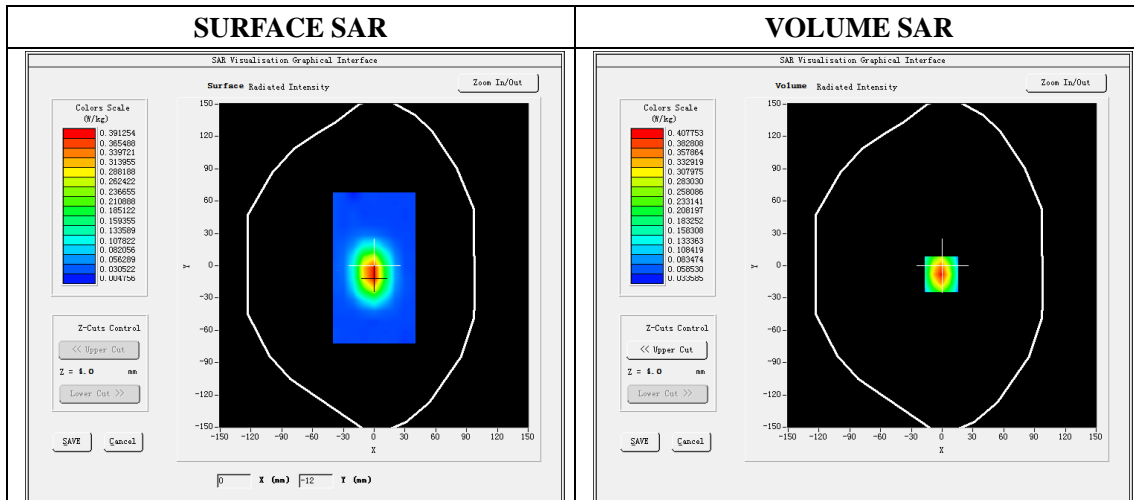
A. Experimental conditions.

Phantom File	dx=8mm dy=8mm
Phantom	5x5x7,dx=8mm dy=8mm dz=5mm
Device Position	Dipole
Band	1900MHz
Channels	
Signal	CW

B. SAR Measurement Results

Band SAR

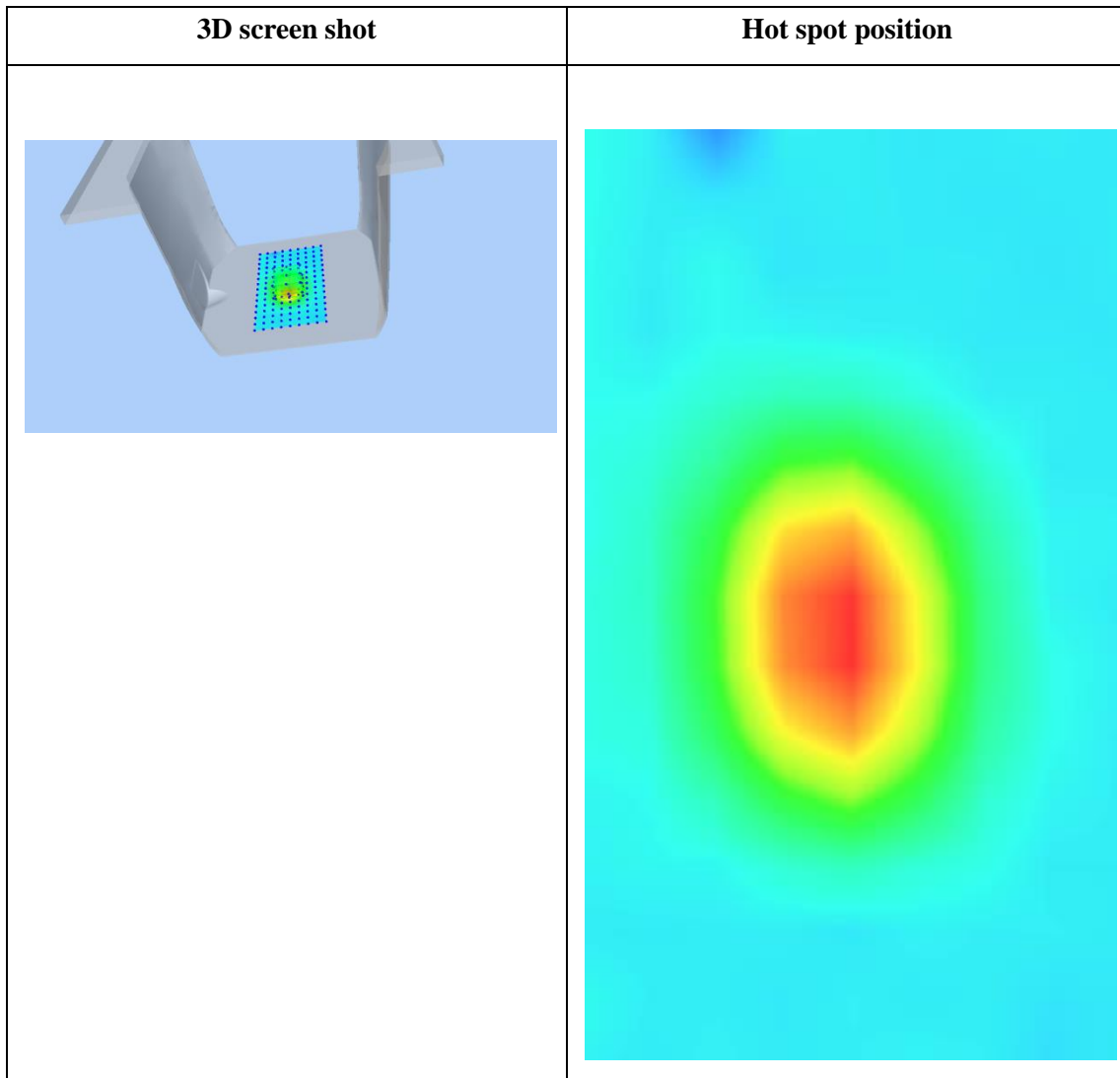
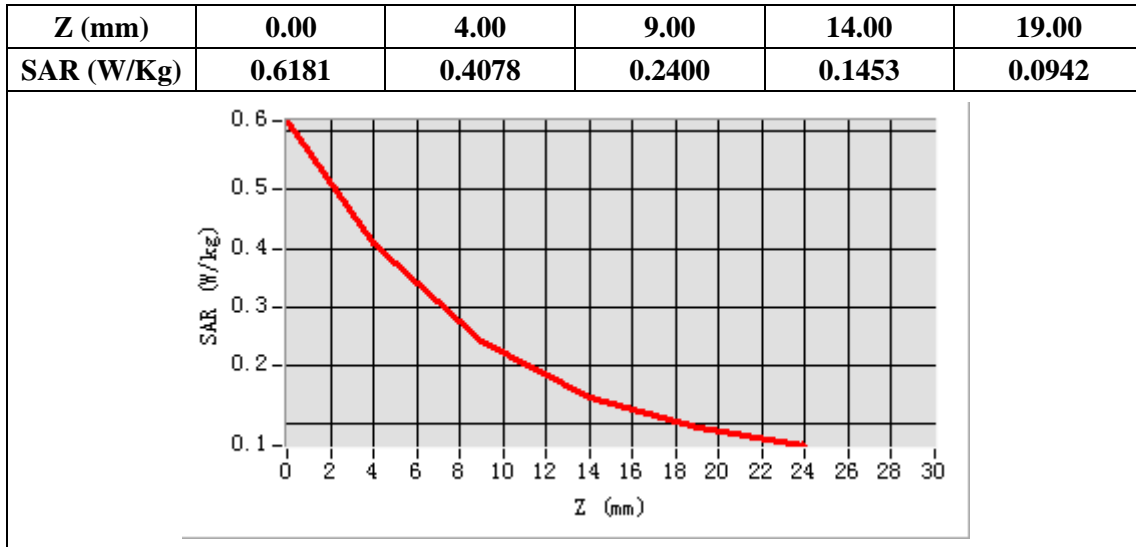
E-Field Probe	SATIMO SN_36/20_EPGO348
Frequency (MHz)	1900
Relative permittivity (real part)	39.70
Relative permittivity	13.05
Conductivity (S/m)	1.42
Power Drift (%)	-1.55
Ambient Temperature:	22.2 °C
Liquid Temperature:	22.5 °C
ConvF:	2.20
Duty factor:	1:1



Maximum location: X=-1.00, Y=-8.00

SAR Peak: 0.62 W/kg

SAR 10g (W/Kg)	0.211701
SAR 1g (W/Kg)	0.392537



System Performance Check (Head, 2450MHz)

Type: Phone measurement

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

Zoom scan resolution: dx=5mm, dy=5mm, dz=4mm

Date of measurement: 11/04/2021

Measurement duration: 22 minutes 07 seconds

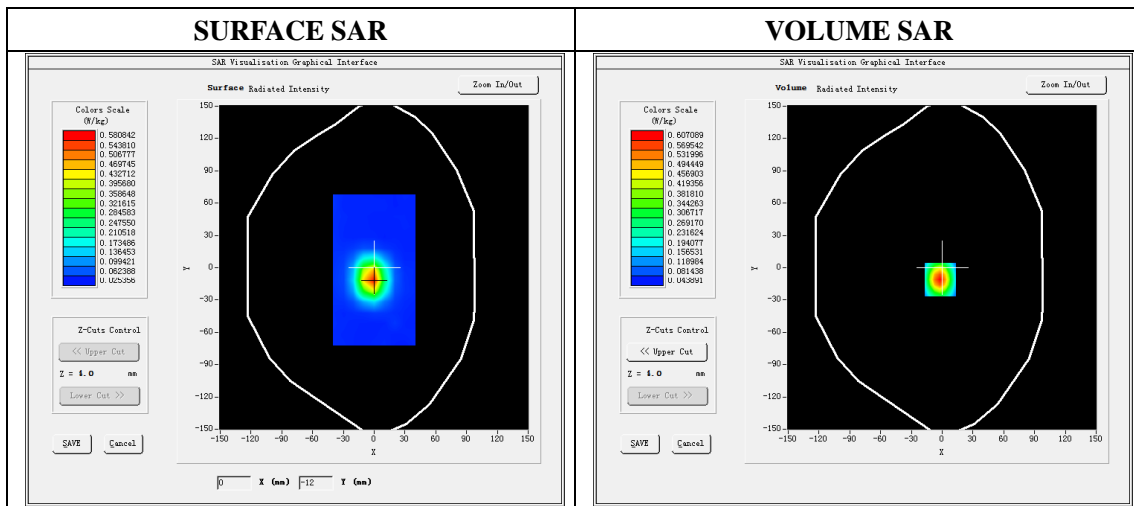
A. Experimental conditions.

Phantom File	dx=8mm dy=8mm
Phantom	7x7x8,dx=5mm dy=5mm dz=4mm
Device Position	Dipole
Band	2450MHz
Channels	
Signal	CW

B. SAR Measurement Results

Band SAR

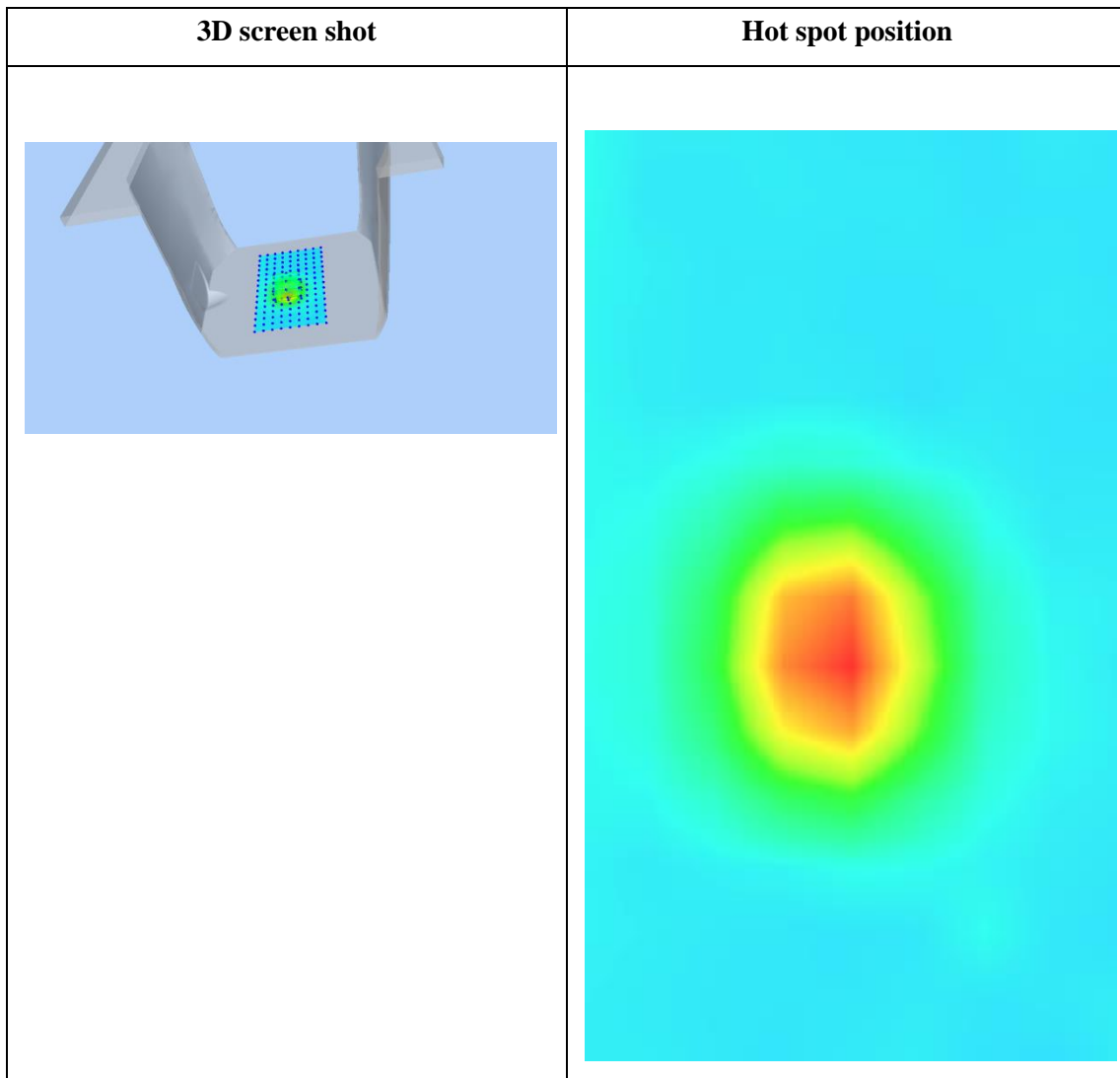
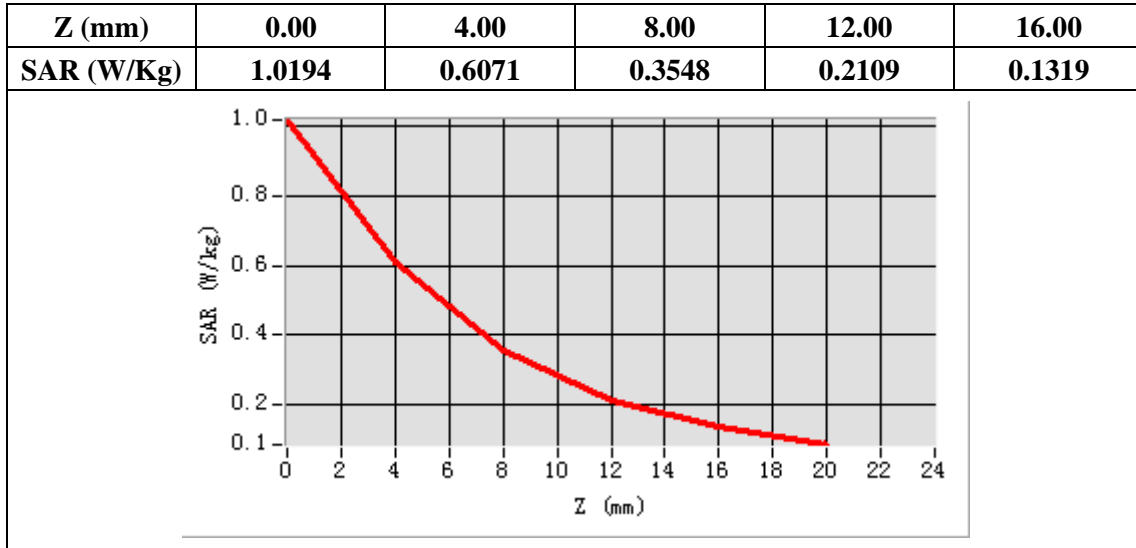
E-Field Probe	SATIMO SN_36/20_EPGO348
Frequency (MHz)	2450
Relative permittivity (real part)	38.77
Relative permittivity	13.42
Conductivity (S/m)	1.82
Power Drift (%)	-0.94
Ambient Temperature:	22.2 °C
Liquid Temperature:	22.6 °C
ConvF:	2.18
Duty factor:	1:1



Maximum location: X=-2.00, Y=-11.00

SAR Peak: 1.02 W/kg

SAR 10g (W/Kg)	0.247425
SAR 1g (W/Kg)	0.541243



System Performance Check (Head, 2600MHz)

Type: Phone measurement

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

Zoom scan resolution: dx=5mm, dy=5mm, dz=4mm

Date of measurement: 11/04/2021

Measurement duration: 22 minutes 12 seconds

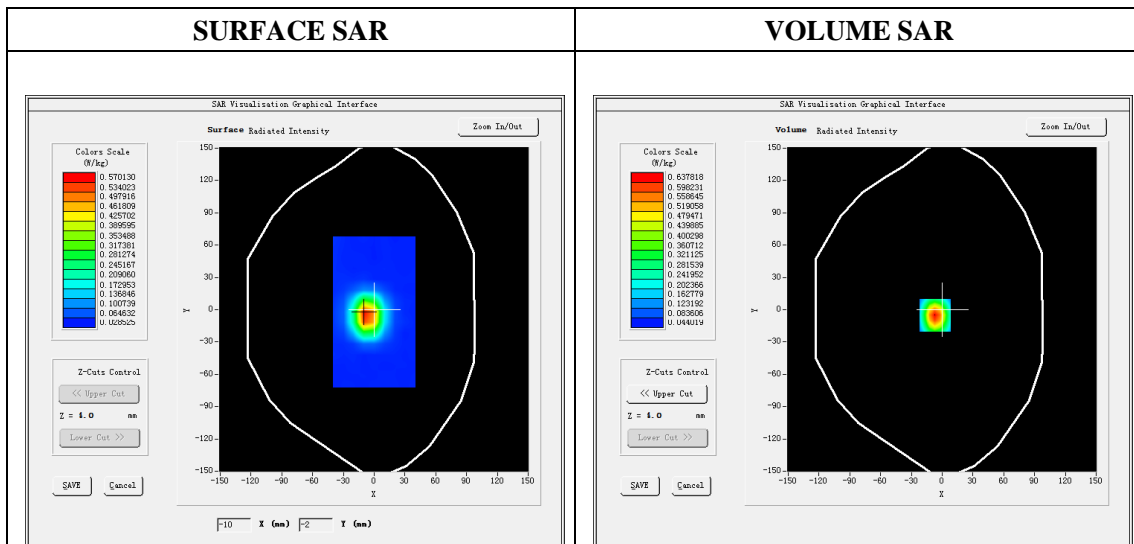
A. Experimental conditions.

Phantom File	dx=8mm dy=8mm
Phantom	7x7x8,dx=5mm dy=5mm dz=4mm
Device Position	Dipole
Band	2600MHz
Channels	
Signal	CW

B. SAR Measurement Results

Band SAR

E-Field Probe	SATIMO SN_36/20_EPGO348
Frequency (MHz)	2600
Relative permittivity (real part)	38.02
Relative permittivity	13.39
Conductivity (S/m)	1.98
Power drift (%)	0.72
Ambient Temperature:	22.2 °C
Liquid Temperature:	22.6 °C
Crest factor:	1:1
ConvF:	2.07



Maximum location: X=-7.00, Y=-5.00

SAR Peak: 1.08 W/kg

SAR 10g (W/Kg)	0.250962
SAR 1g (W/Kg)	0.568217

