

**Appendix A: SAR System performance Check Plots**

Measurement	Liquid	Frequency	Test Date
System Check	Head	750	2018-05-19
System Check	Head	835	2018-05-16
System Check	Head	1800	2018-05-16
System Check	Head	1900	2018-05-17
System Check	Head	1900	2018-05-24
System Check	Head	2450	2018-05-15
System Check	Head	2600	2018-05-21
System Check	Body	750	2018-05-19
System Check	Body	835	2018-05-16
System Check	Body	1800	2018-05-16
System Check	Body	1900	2018-05-17
System Check	Body	1900	2018-05-24
System Check	Body	2450	2018-05-15
System Check	Body	2600	2018-05-21



Measurement	Liquid	Frequency	Test Date
System Check	Head	750	2018-07-17
System Check	Head	835	2018-07-17
System Check	Head	1800	2018-07-18
System Check	Head	1900	2018-07-18
System Check	Head	2450	2018-07-19
System Check	Head	2600	2018-07-19
System Check	Body	750	2018-07-17
System Check	Body	835	2018-07-17
System Check	Body	1800	2018-07-18
System Check	Body	1900	2018-07-18
System Check	Body	2450	2018-07-19
System Check	Body	2600	2018-07-19

System Performance Check (Head, 750MHz)

Type: Validation measurement

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

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

Date of measurement: 05/19/2018

Measurement duration: 22 minutes 18seconds

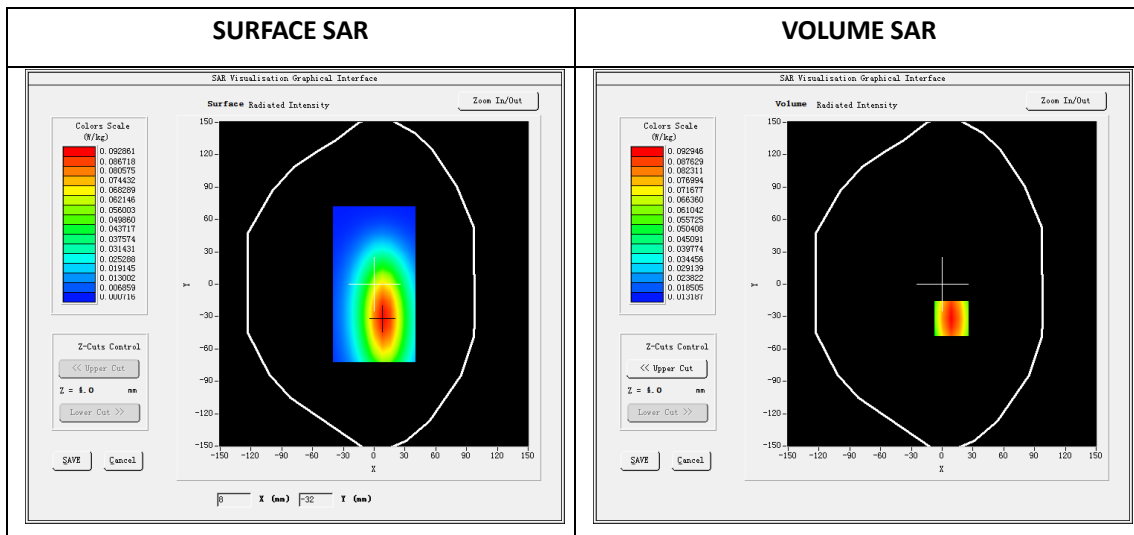
A. Experimental conditions.

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

B. SAR Measurement Results

Band SAR

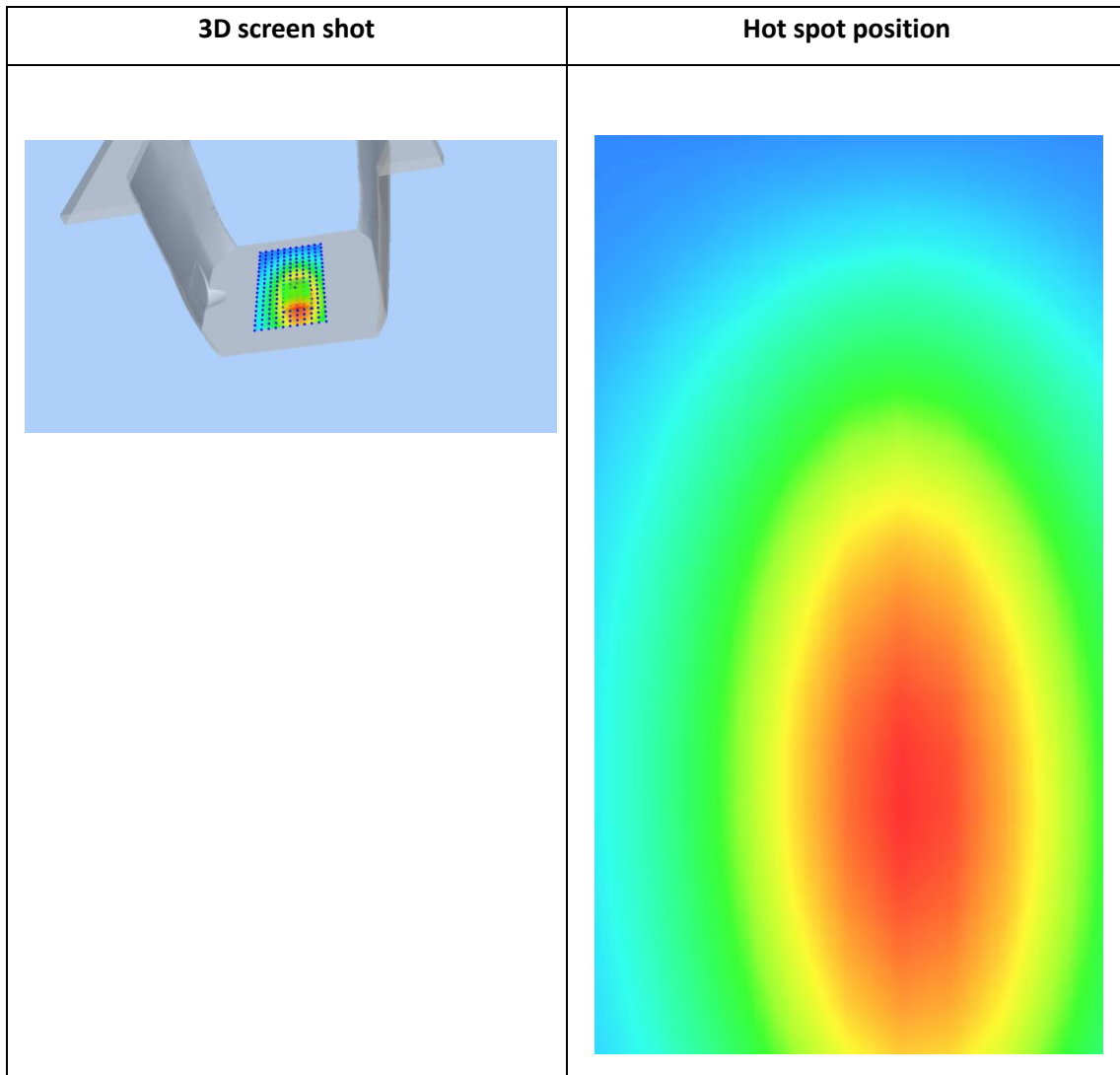
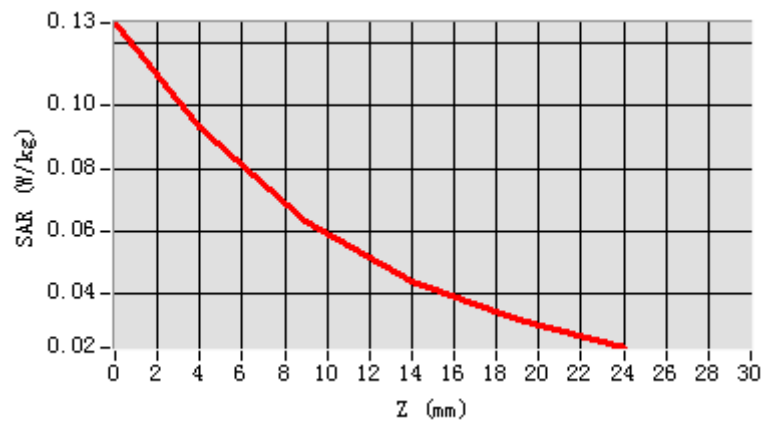
E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	750
Relative permittivity (real part)	42.05
Relative permittivity	21.60
Conductivity (S/m)	0.90
Power drift (%)	-0.33
Ambient Temperature:	22.2°C
Liquid Temperature:	22.5°C
ConvF:	4.80
Duty factor:	1:1



Maximum location: X=9.00, Y=-32.00

SAR 10g (W/Kg)	0.058389
SAR 1g (W/Kg)	0.088570

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.1263	0.0929	0.0634	0.0442	0.0319



System Performance Check (Head, 835MHz)

Type: Validation measurement

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

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

Date of measurement: 05/16/2018

Measurement duration: 22 minutes 41seconds

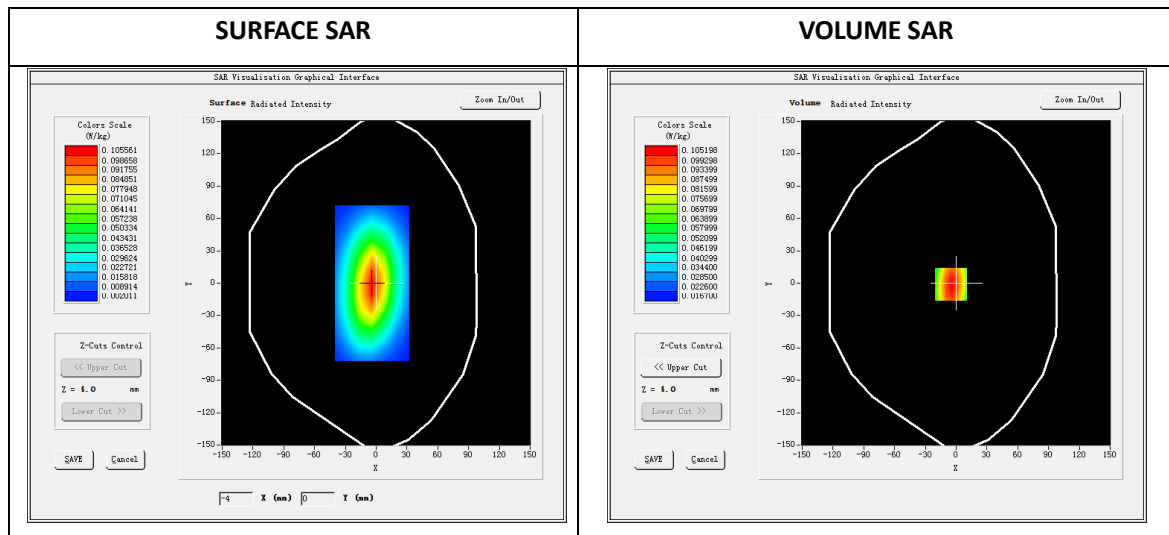
A. Experimental conditions.

Phantom File	dx=8mm dy=8mm
Phantom	5x5x7,dx=8mm dy=8mm dz=5mm
Device Position	Dipole
Band	850MHz
Channels	
Signal	CW

B. SAR Measurement Results

Band SAR

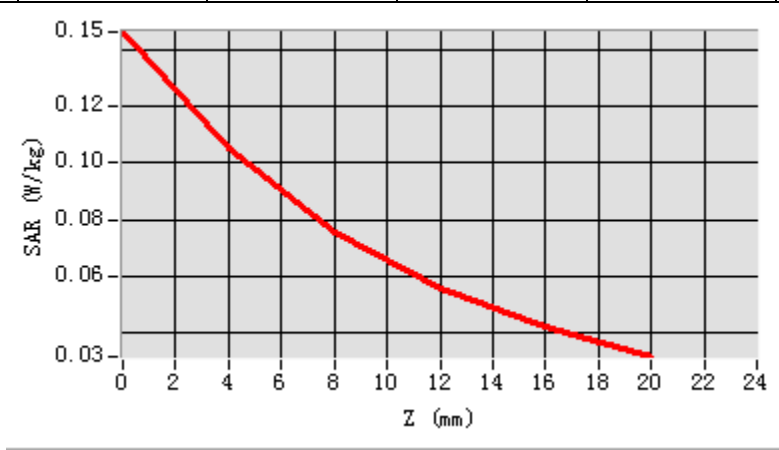
E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	835
Relative permittivity (real part)	41.65
Relative permittivity	19.44
Conductivity (S/m)	0.88
Power drift (%)	-0.39
Ambient Temperature:	22.2°C
Liquid Temperature:	22.5°C
ConvF:	4.99
Duty factor:	1:1

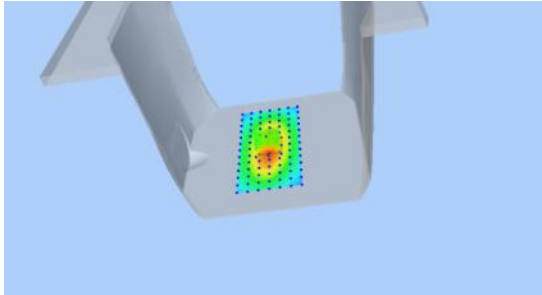
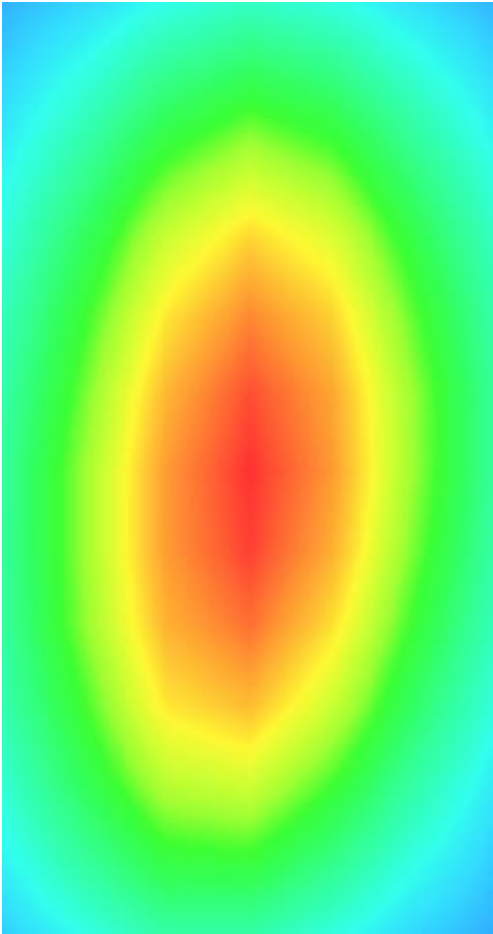


Maximum location: X=-5.00, Y=-1.00

SAR 10g (W/Kg)	0.063214
SAR 1g (W/Kg)	0.098841

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.1436	0.1021	0.0713	0.0525	0.0406



3D screen shot	Hot spot position
	

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: 05/16/2018

Measurement duration: 22 minutes 45seconds

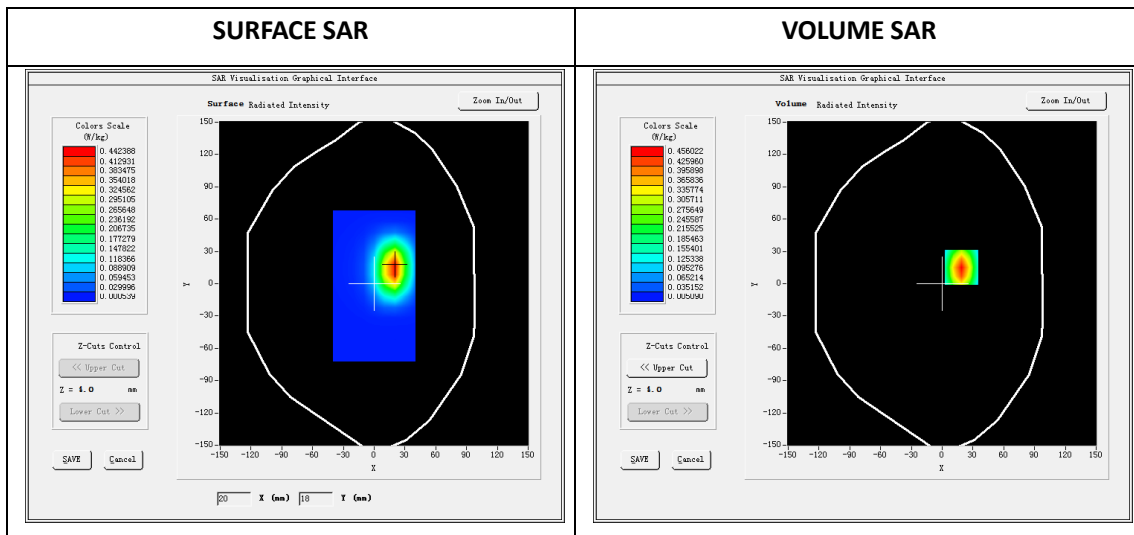
A. Experimental conditions.

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

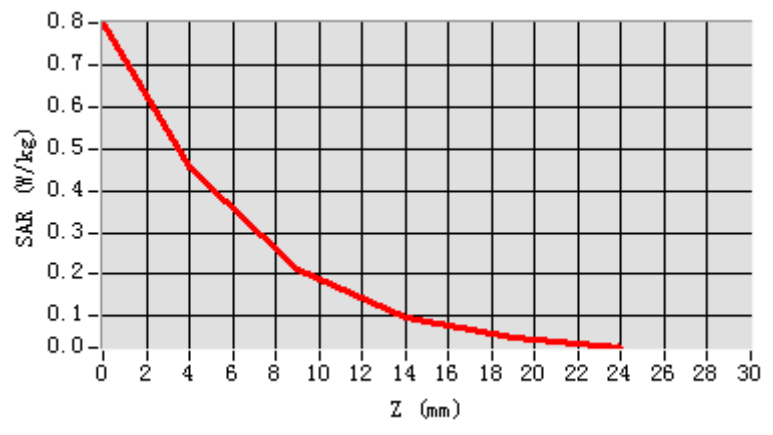
E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	1800
Relative permittivity (real part)	38.88
Relative permittivity	13.70
Conductivity (S/m)	1.37
Power drift (%)	-1.25
Ambient Temperature:	22.2°C
Liquid Temperature:	22.5°C
ConvF:	4.29
Duty factor:	1:1

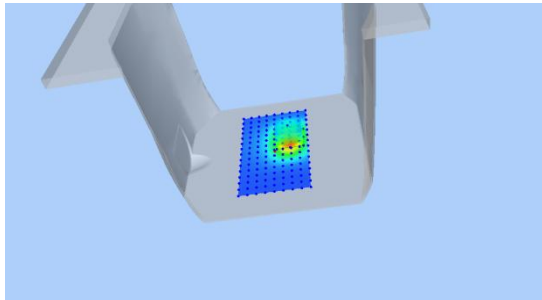
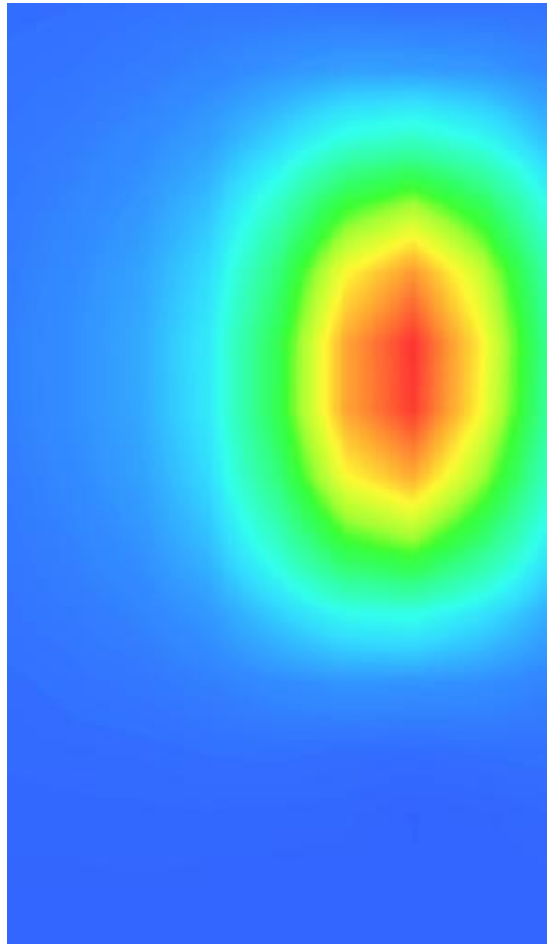


Maximum location: X=19.00, Y=15.00

SAR 10g (W/Kg)	0.201156
SAR 1g (W/Kg)	0.424579

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.8005	0.4560	0.2123	0.0976	0.0487



3D screen shot	Hot spot position
	

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: 05/17/2018

Measurement duration: 22 minutes 53seconds

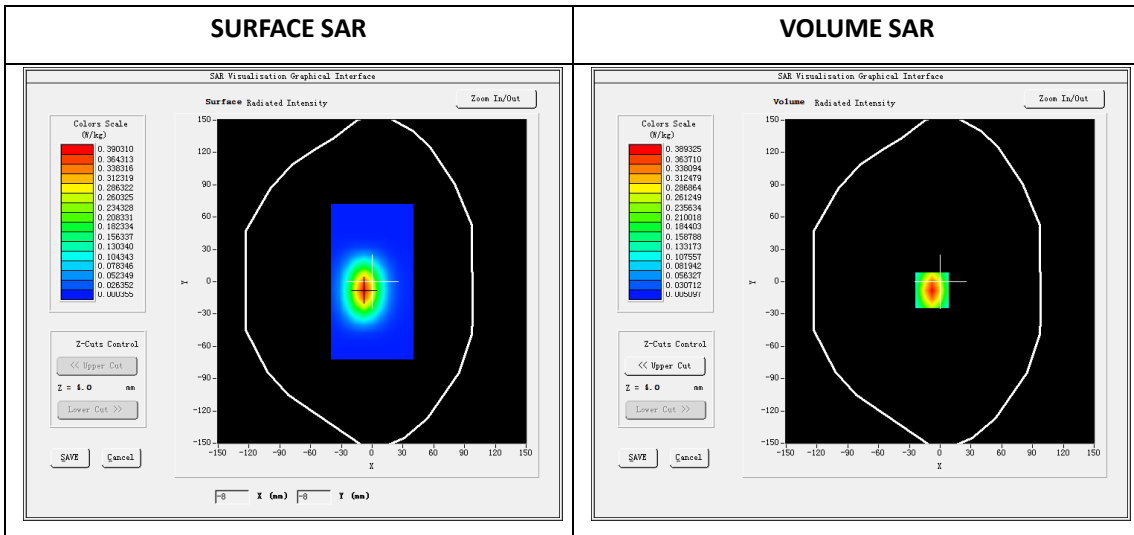
A. Experimental conditions.

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

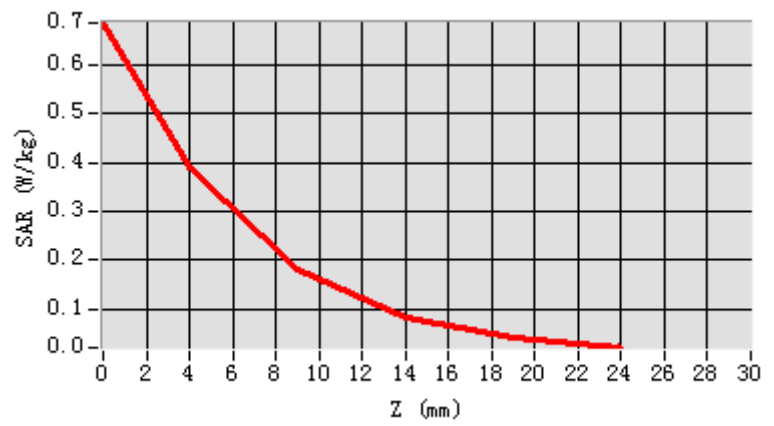
E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	1900
Relative permittivity (real part)	41.20
Relative permittivity	12.78
Conductivity (S/m)	1.35
Power drift (%)	-1.03
Ambient Temperature:	22.2°C
Liquid Temperature:	22.5°C
ConvF:	4.73
Duty factor:	1:1

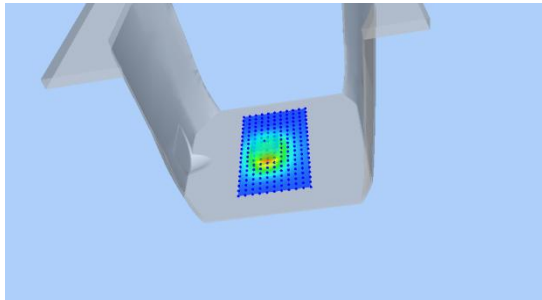
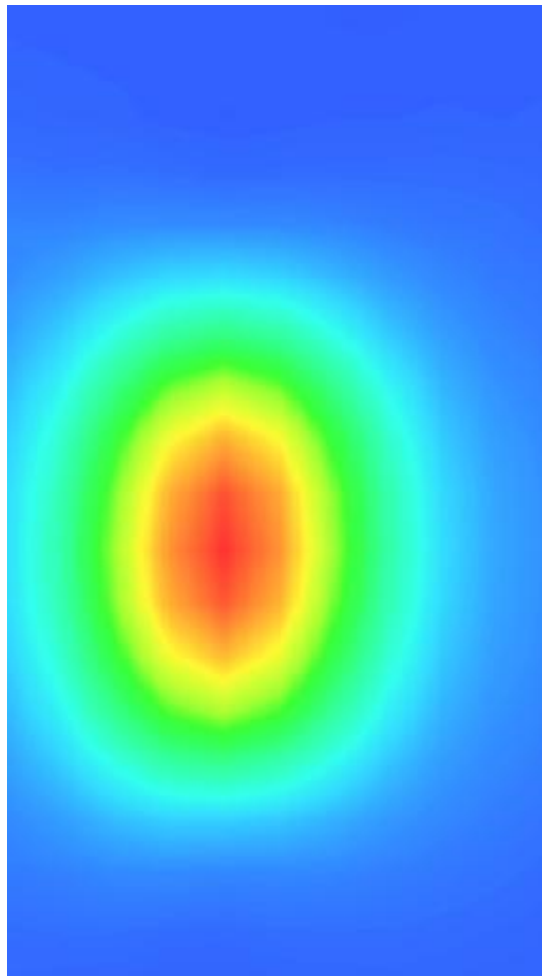


Maximum location: X=-8.00, Y=-8.00

SAR 10g (W/Kg)	0.173475
SAR 1g (W/Kg)	0.382562

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.6846	0.3893	0.1809	0.0831	0.0416



3D screen shot	Hot spot position
	

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: 05/24/2018

Measurement duration: 22 minutes 47seconds

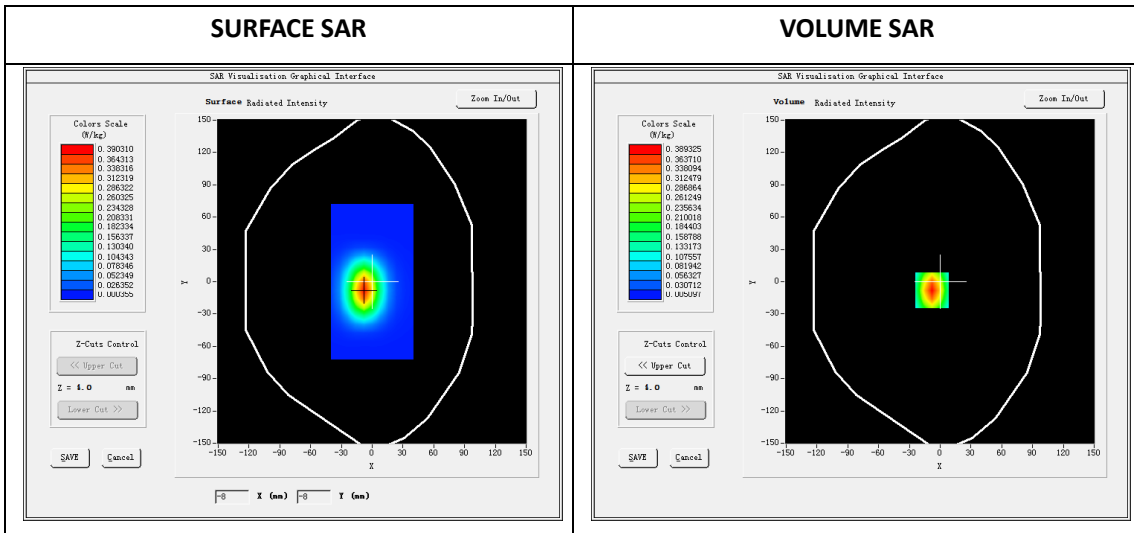
A. Experimental conditions.

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

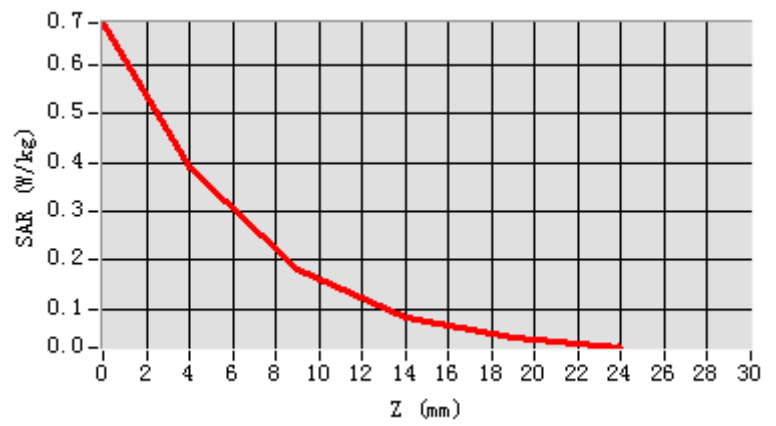
E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	1900
Relative permittivity (real part)	41.18
Relative permittivity	12.76
Conductivity (S/m)	1.34
Power drift (%)	-1.23
Ambient Temperature:	22.2°C
Liquid Temperature:	22.5°C
ConvF:	4.73
Duty factor:	1:1

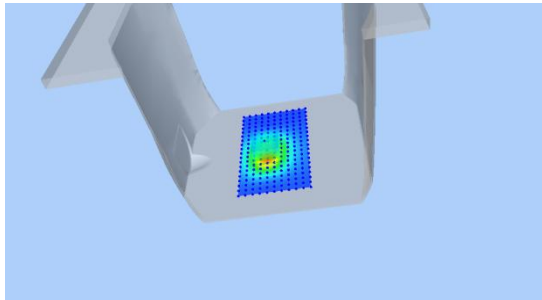
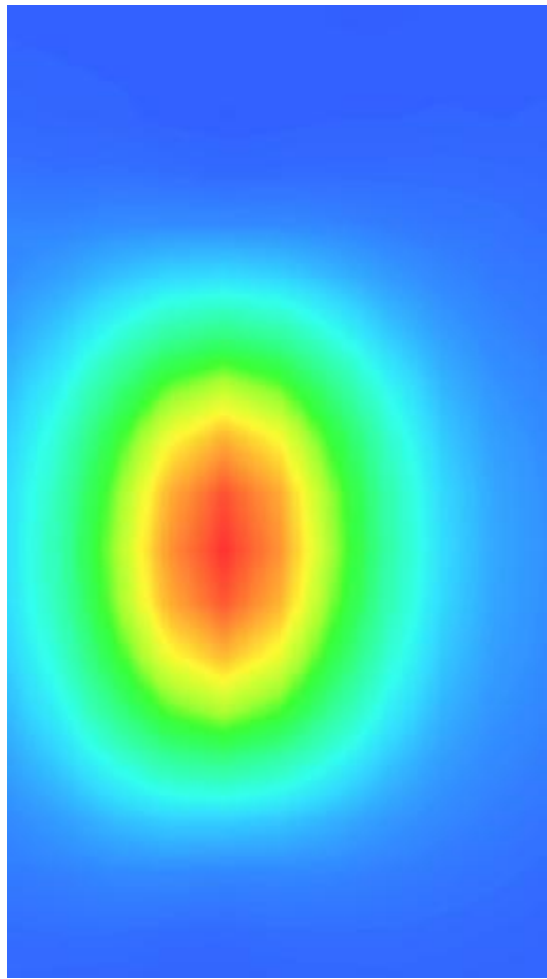


Maximum location: X=-8.00, Y=-8.00

SAR 10g (W/Kg)	0.174651
SAR 1g (W/Kg)	0.386159

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.6876	0.3874	0.1815	0.0826	0.0422



3D screen shot	Hot spot position
	

System Performance Check (Head, 2450MHz)

Type: Validation measurement

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

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

Date of measurement: 05/15/2018

Measurement duration: 22 minutes 16seconds

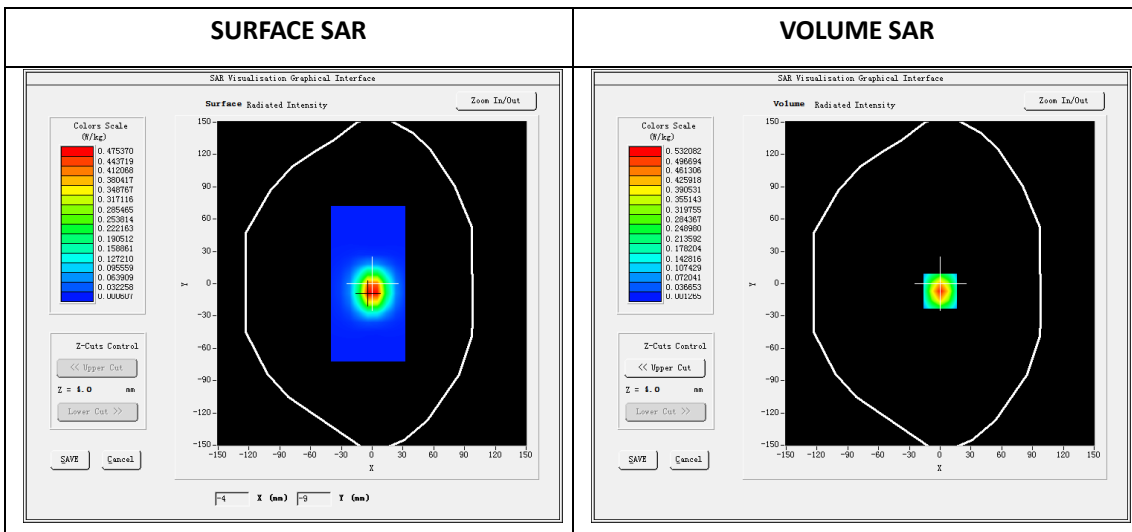
A. Experimental conditions.

Phantom File	dx=8mm dy=8mm
Phantom	5x5x7,dx=8mm dy=8mm dz=5mm
Device Position	Dipole
Band	2450MHz
Channels	
Signal	CW

B. SAR Measurement Results

Band SAR

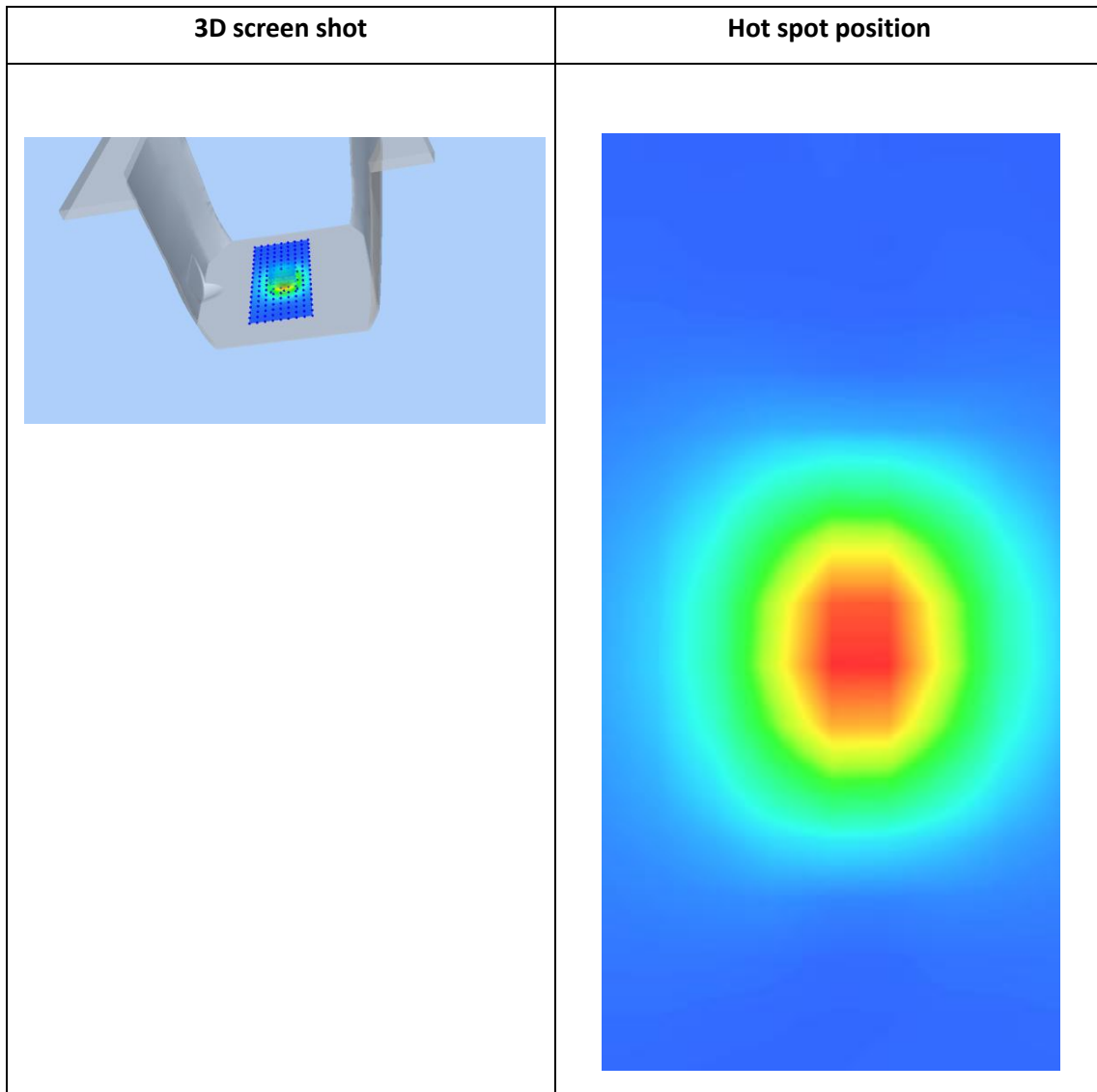
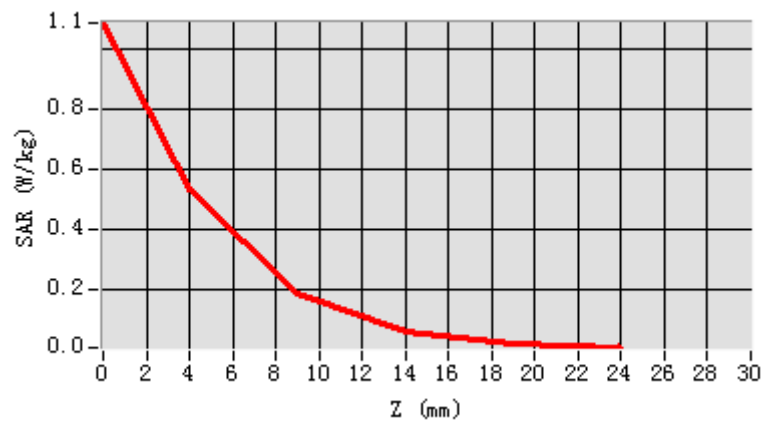
E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	2450
Relative permittivity (real part)	38.75
Relative permittivity	12.93
Conductivity (S/m)	1.76
Power drift (%)	-0.48
Ambient Temperature:	22.2°C
Liquid Temperature:	22.5°C
ConvF:	4.46
Duty factor:	1:1



Maximum location: X=0.00, Y=-7.00

SAR 10g (W/Kg)	0.210598
SAR 1g (W/Kg)	0.526046

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.0843	0.5321	0.1891	0.0610	0.0227



System Performance Check (Head, 2600MHz)

Type: Validation measurement

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

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

Date of measurement: 05/21/2018

Measurement duration: 22 minutes 44seconds

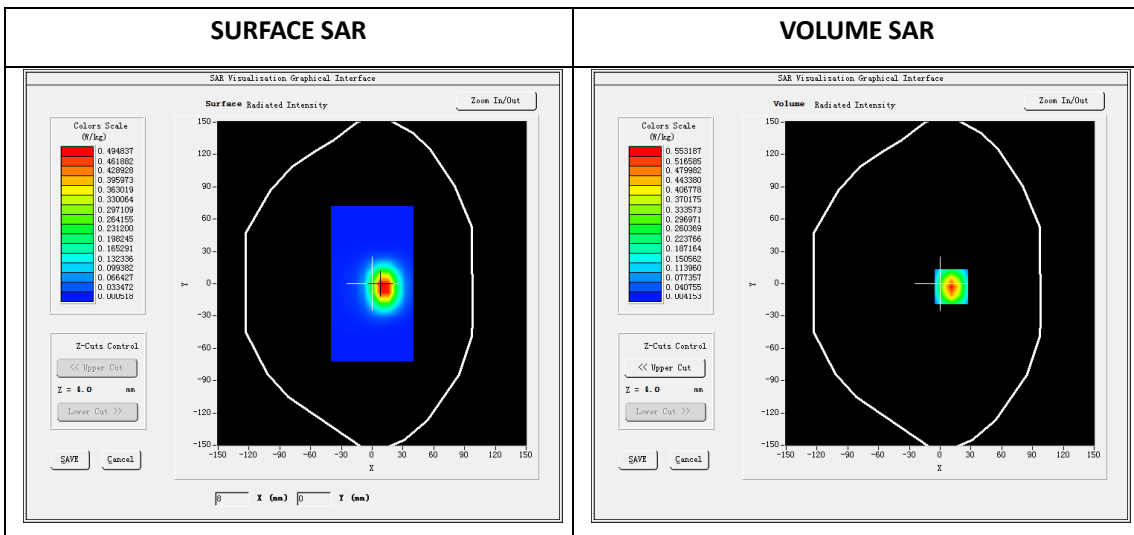
A. Experimental conditions.

Phantom File	dx=8mm dy=8mm
Phantom	5x5x7,dx=8mm dy=8mm dz=5mm
Device Position	Dipole
Band	2600MHz
Channels	
Signal	CW

B. SAR Measurement Results

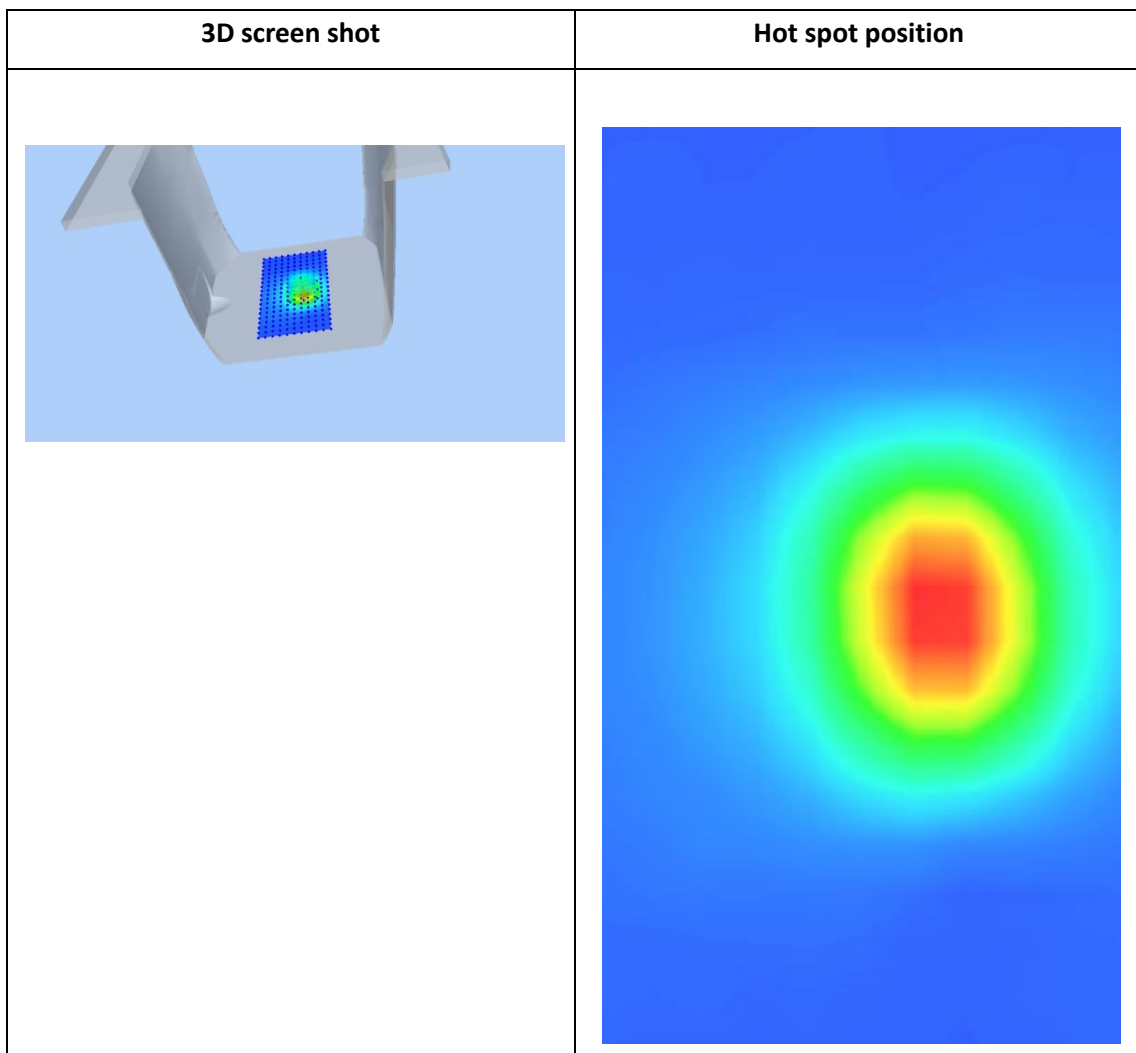
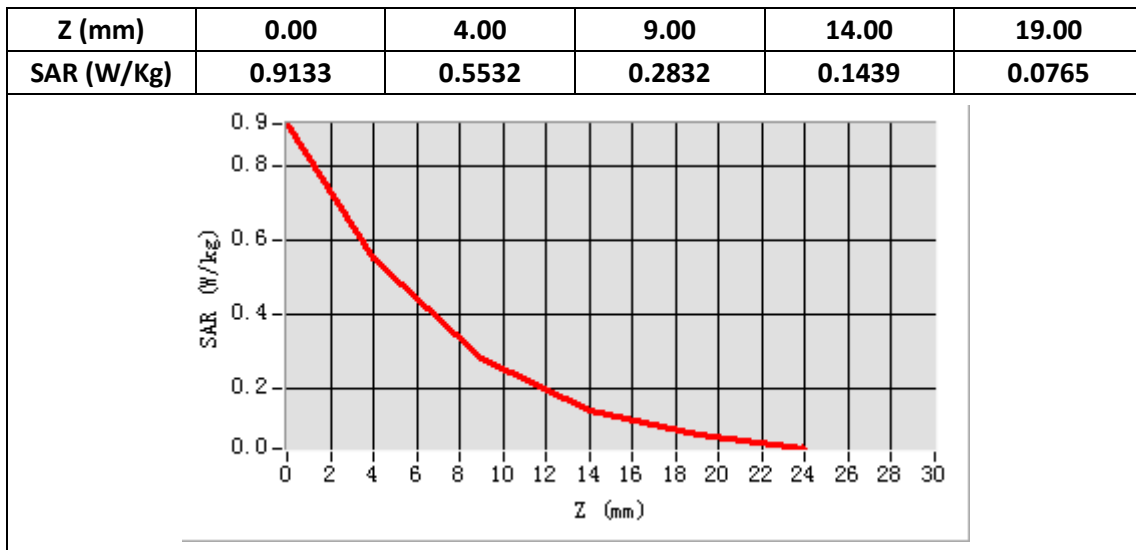
Band SAR

E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	2600
Relative permittivity (real part)	38.12
Relative permittivity	13.43
Conductivity (S/m)	1.94
Power drift (%)	-2.30
Ambient Temperature:	22.2°C
Liquid Temperature:	22.5°C
ConvF:	4.16
Duty factor:	1:1



Maximum location: X=11.00, Y=-3.00

SAR 10g (W/Kg)	0.238353
SAR 1g (W/Kg)	0.532405



System Performance Check (Body, 750MHz)

Type: Validation measurement

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

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

Date of measurement: 05/19/2018

Measurement duration: 22 minutes 36seconds

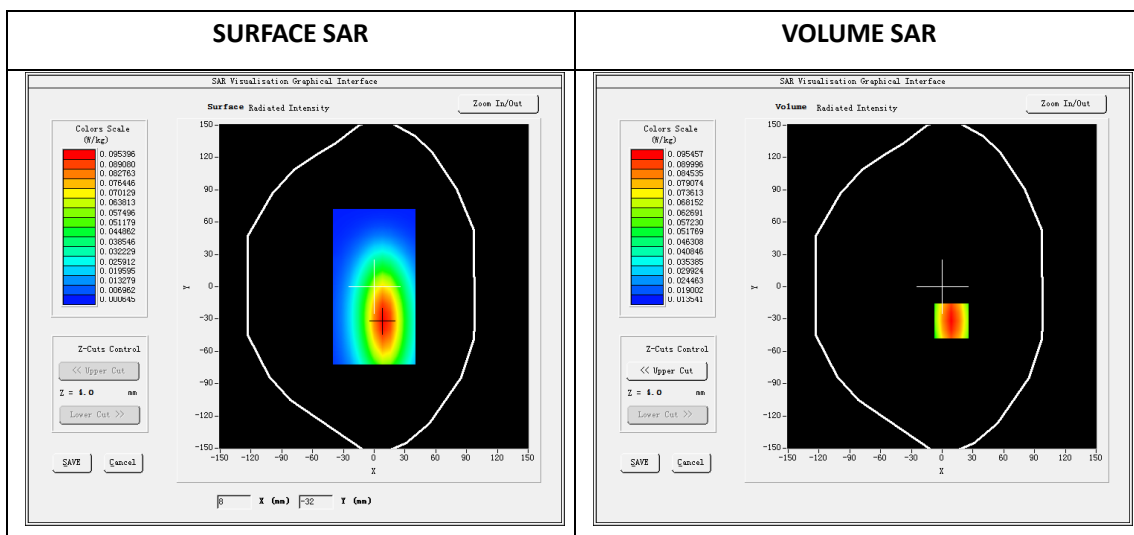
A. Experimental conditions.

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

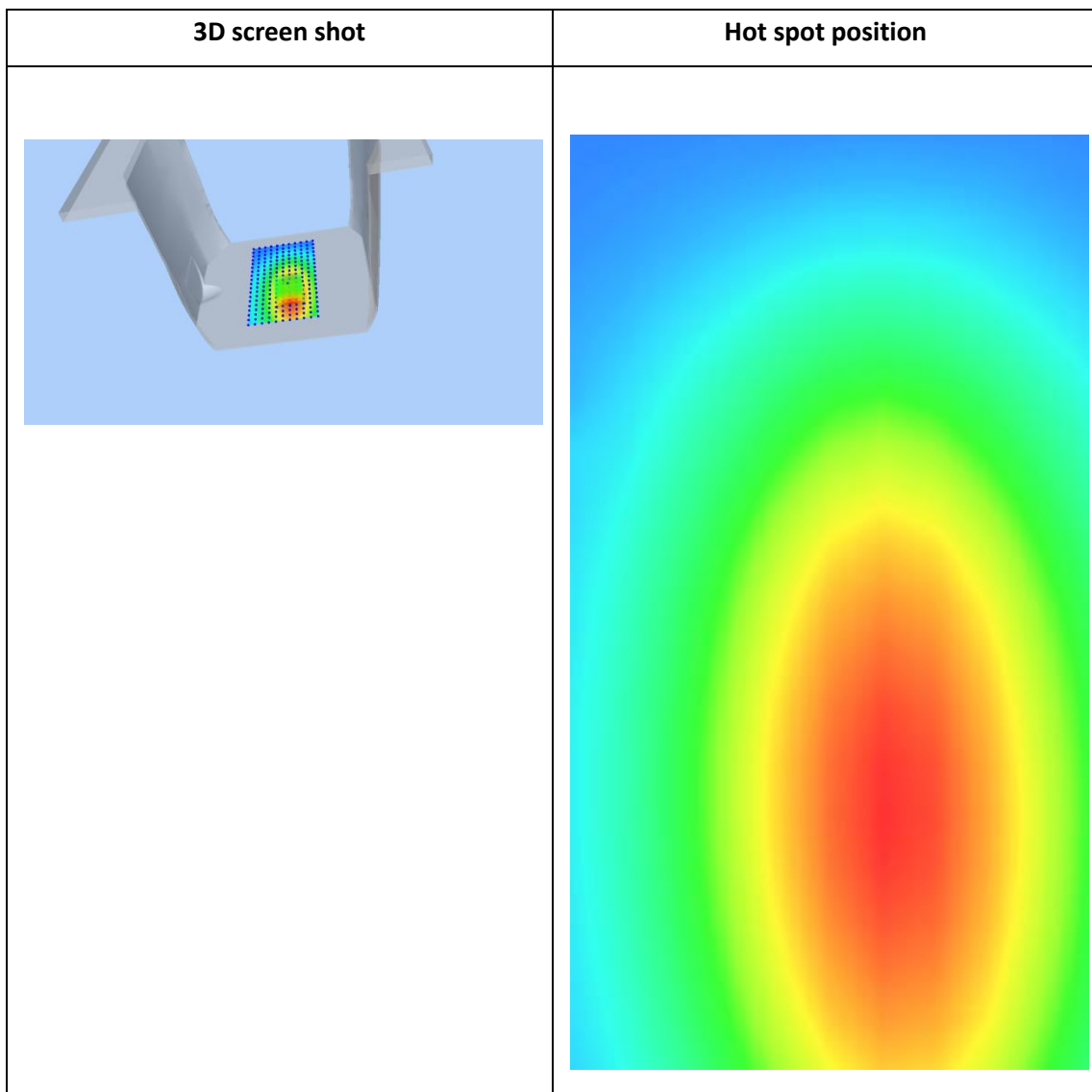
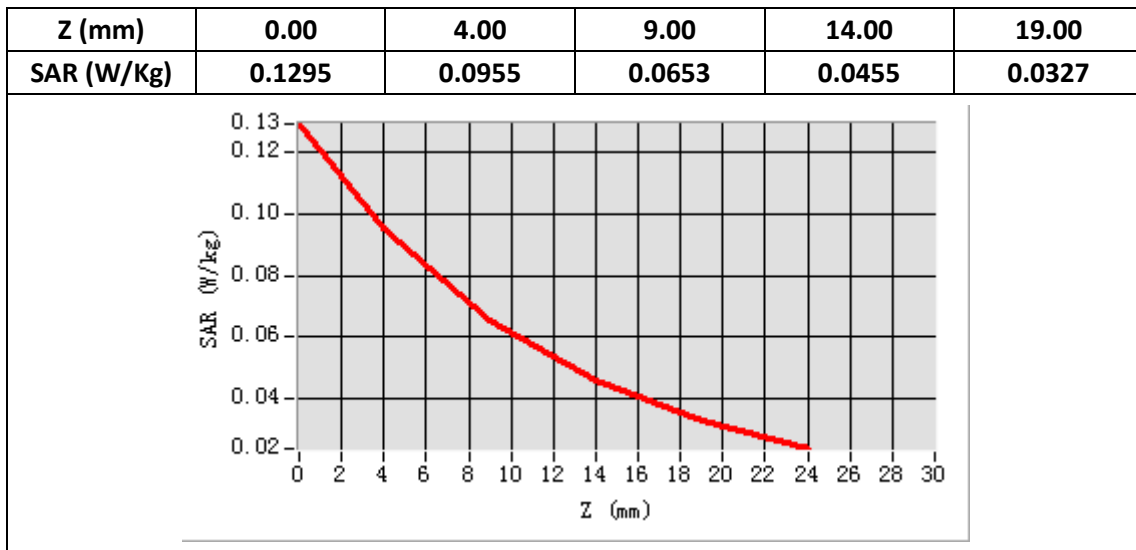
Band SAR

E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	750
Relative permittivity (real part)	55.69
Relative permittivity	22.80
Conductivity (S/m)	0.95
Power drift (%)	-0.19
Ambient Temperature:	22.2°C
Liquid Temperature:	22.5°C
ConvF:	4.94
Duty factor:	1:1



Maximum location: X=9.00, Y=-32.00

SAR 10g (W/Kg)	0.060007
SAR 1g (W/Kg)	0.090961



System Performance Check (Body, 835MHz)

Type: Validation measurement

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

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

Date of measurement: 05/16/2018

Measurement duration: 22 minutes 33seconds

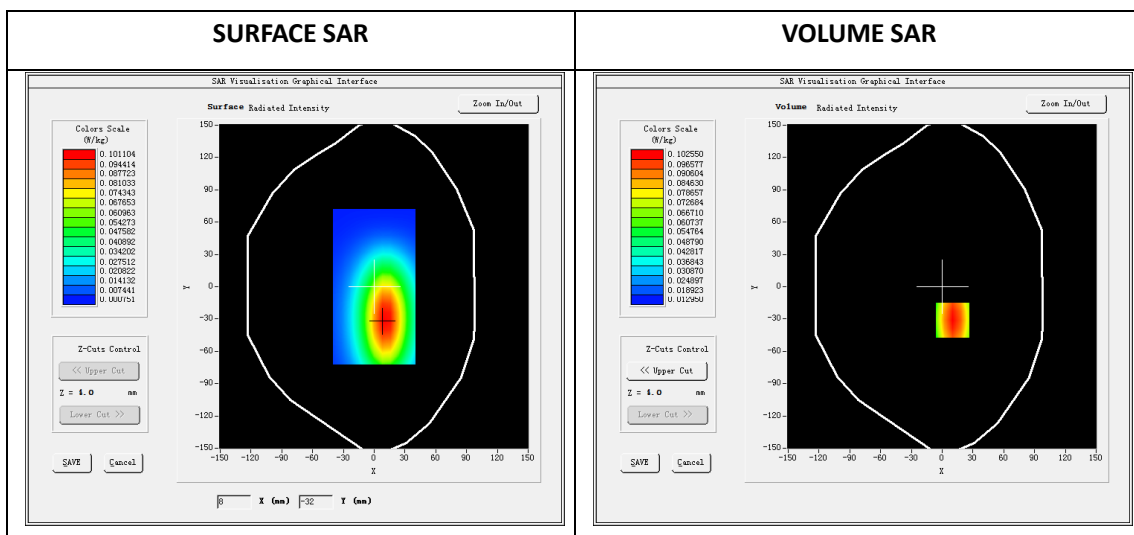
A. Experimental conditions.

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

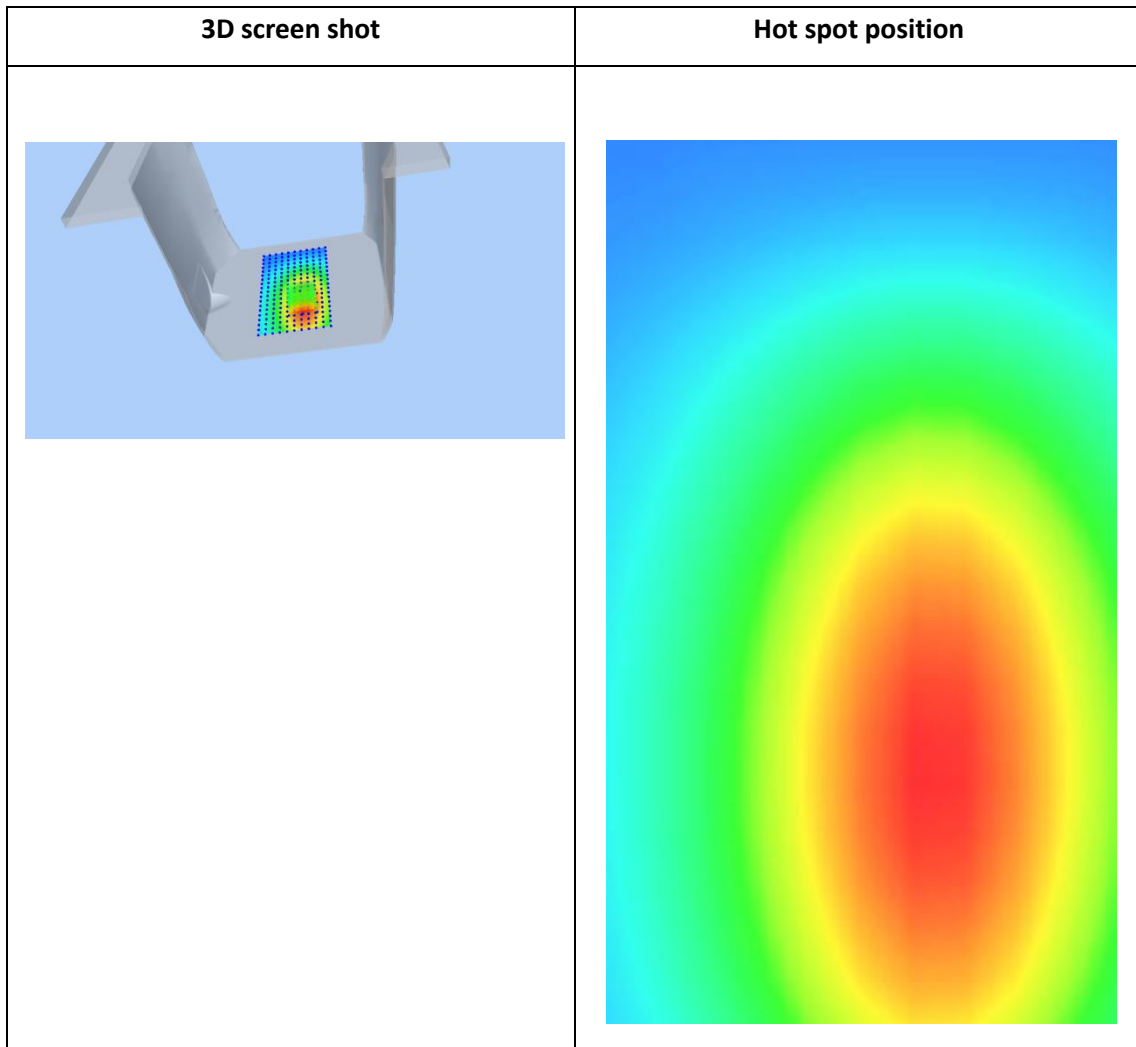
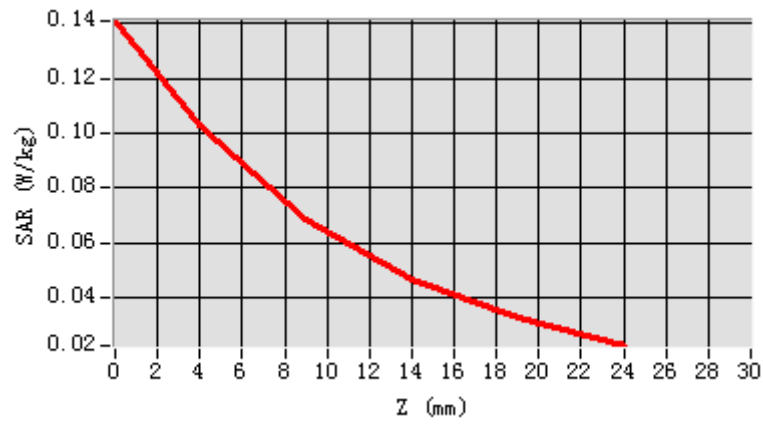
E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	835
Relative permittivity (real part)	55.36
Relative permittivity	20.47
Conductivity (S/m)	0.93
Power drift (%)	-0.26
Ambient Temperature:	22.2°C
Liquid Temperature:	22.5°C
ConvF:	5.18
Duty factor:	1:1



Maximum location: X=10.00, Y=-31.00

SAR 10g (W/Kg)	0.063400
SAR 1g (W/Kg)	0.097695

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.1403	0.1015	0.0671	0.0443	0.0318



System Performance Check (Body, 1800MHz)

Type: Validation measurement

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

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

Date of measurement: 05/16/2018

Measurement duration: 22 minutes 16 seconds

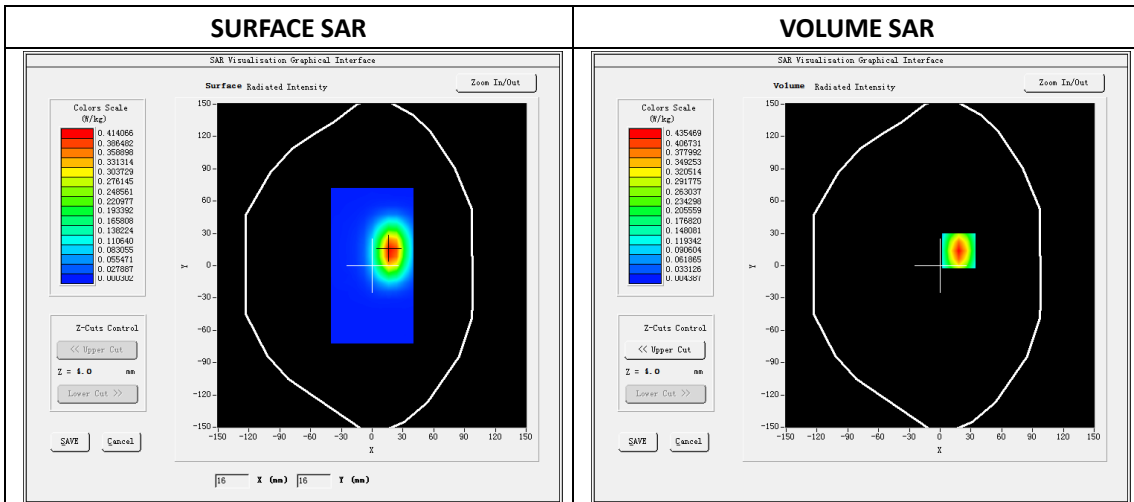
A. Experimental conditions.

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

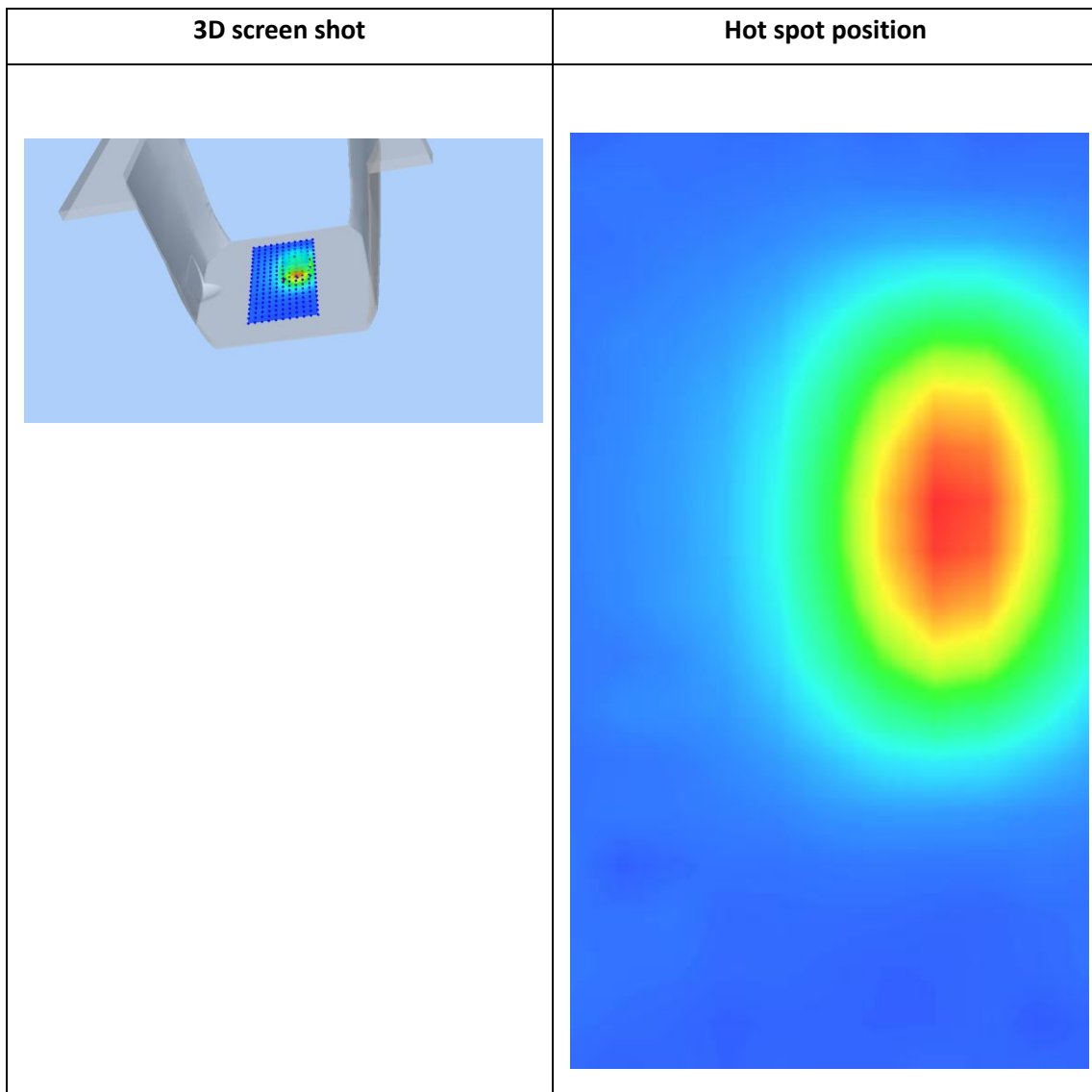
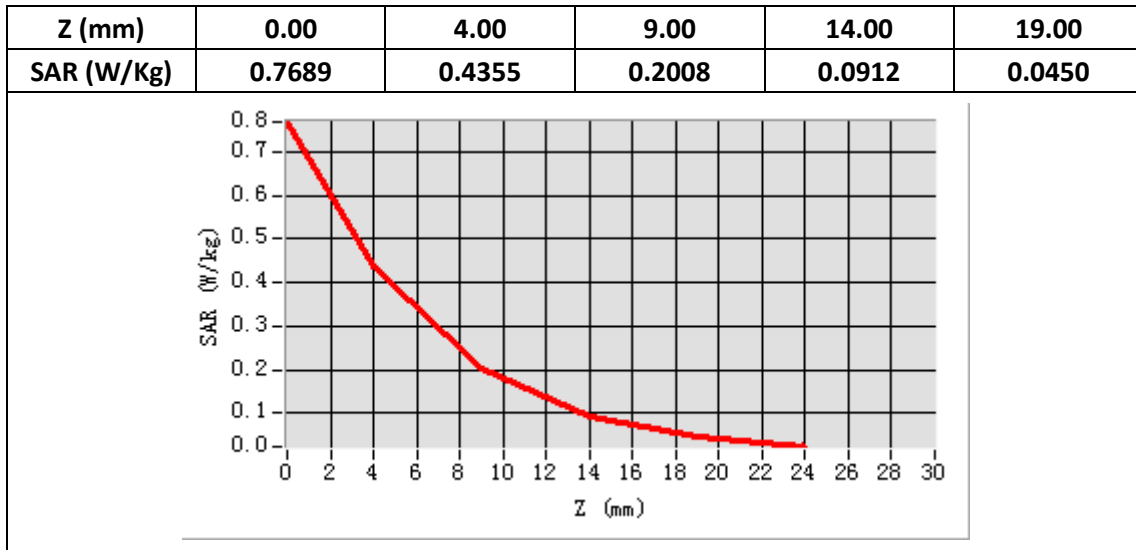
Band SAR

E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	1800
Relative permittivity (real part)	53.15
Relative permittivity	14.80
Conductivity (S/m)	1.48
Power Drift (%)	-0.49
Ambient Temperature:	22.1°C
Liquid Temperature:	22.6°C
ConvF:	4.43
Duty factor:	1:1



Maximum location: X=18.00, Y=14.00

SAR 10g (W/Kg)	0.190988
SAR 1g (W/Kg)	0.404567



System Performance Check (Body, 1900MHz)

Type: Validation measurement

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

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

Date of measurement: 05/17/2018

Measurement duration: 22 minutes 35 seconds

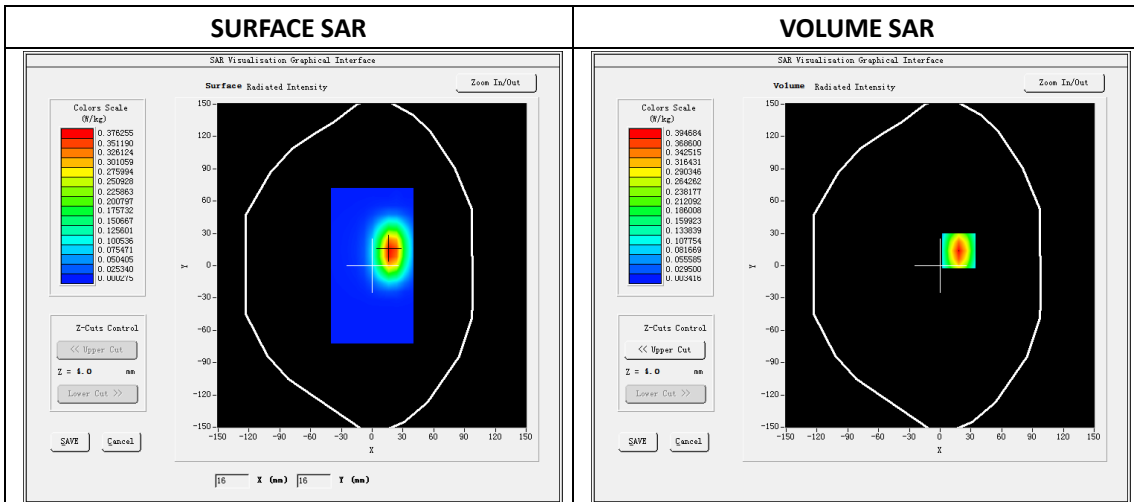
A. Experimental conditions.

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

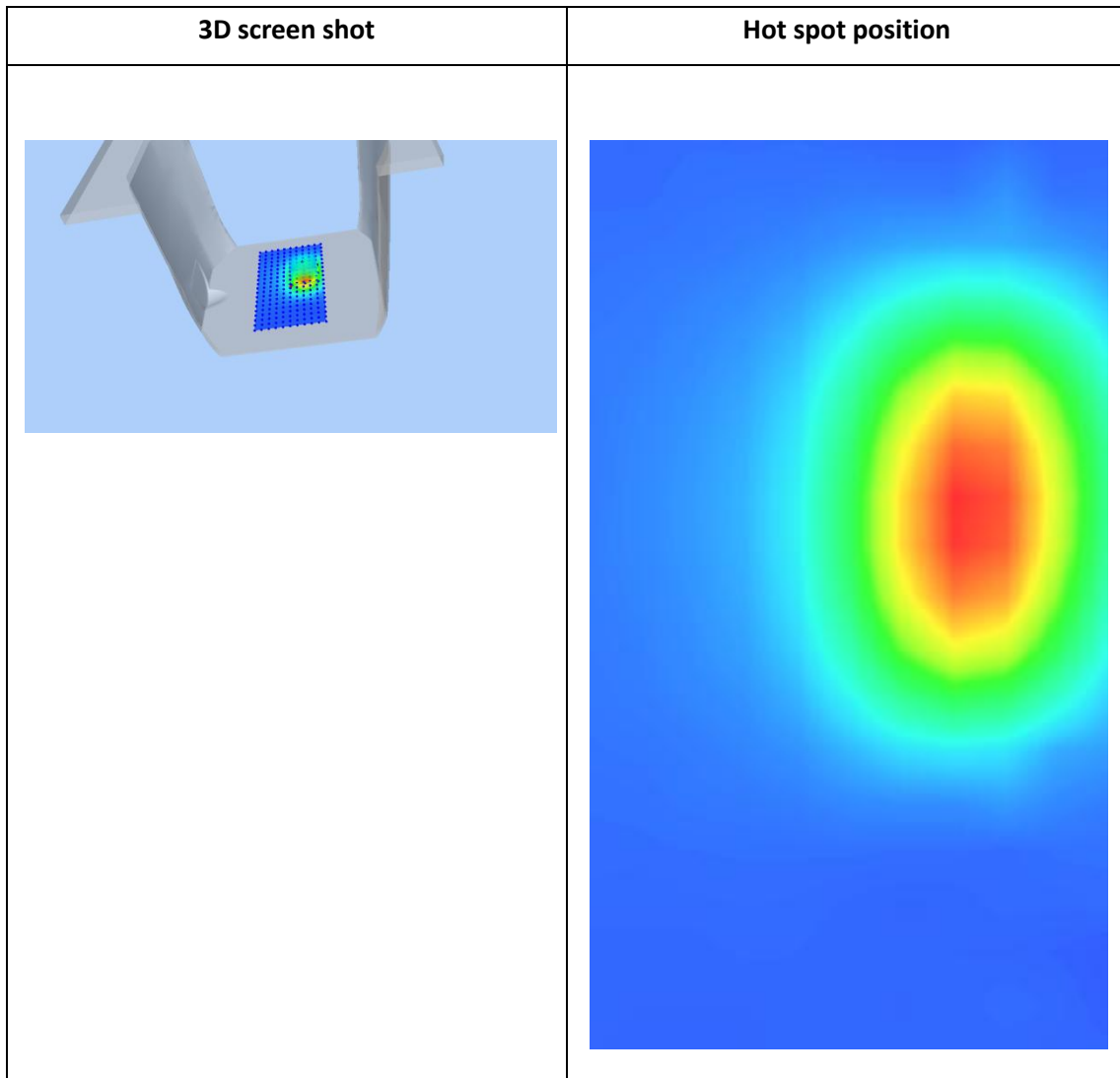
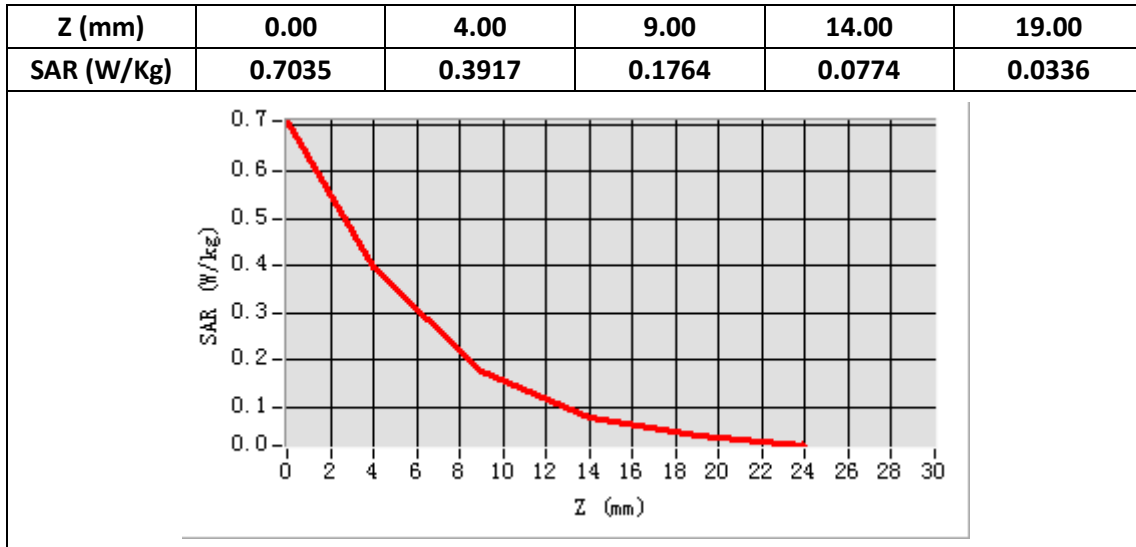
Band SAR

E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	1900
Relative permittivity (real part)	53.96
Relative permittivity	14.21
Conductivity (S/m)	1.50
Power Drift (%)	-0.13
Ambient Temperature:	22.1°C
Liquid Temperature:	22.6°C
ConvF:	4.83
Duty factor:	1:1



Maximum location: X=18.00, Y=14.00

SAR 10g (W/Kg)	0.181271
SAR 1g (W/Kg)	0.397246



System Performance Check (Body, 1900MHz)

Type: Validation measurement

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

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

Date of measurement: 05/24/2018

Measurement duration: 22 minutes 31 seconds

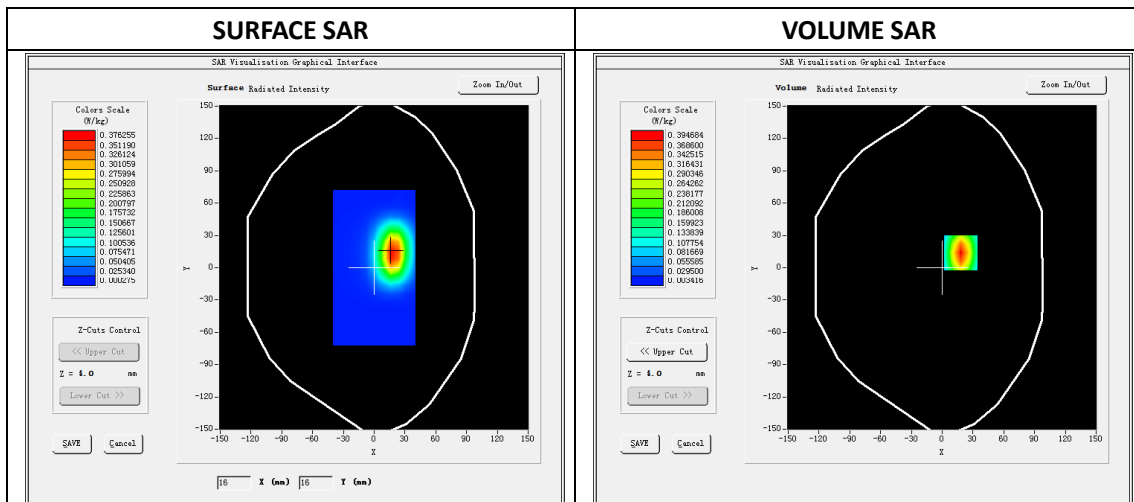
A. Experimental conditions.

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

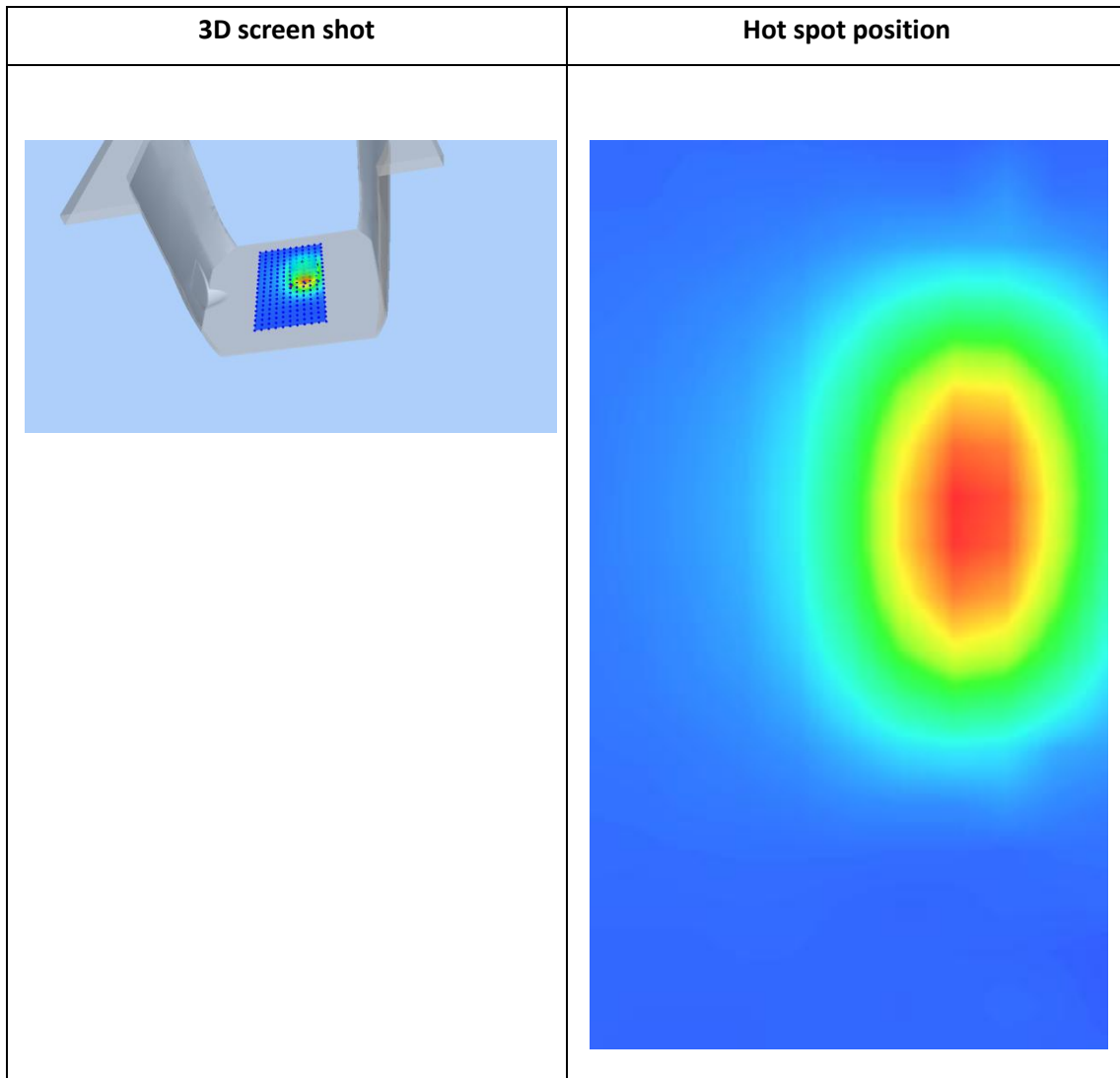
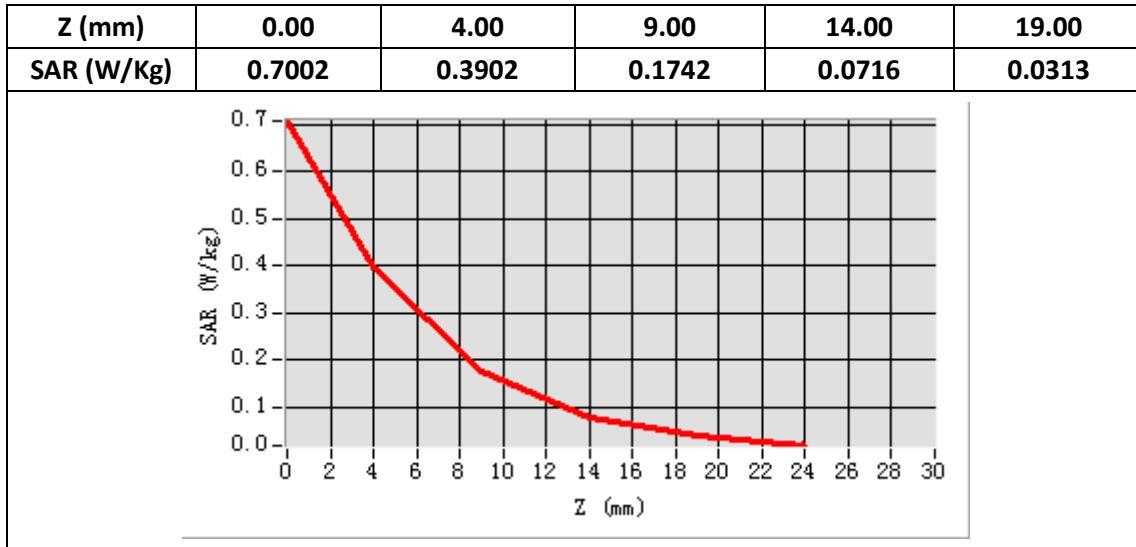
Band SAR

E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	1900
Relative permittivity (real part)	53.94
Relative permittivity	14.11
Conductivity (S/m)	1.49
Power Drift (%)	-0.22
Ambient Temperature:	22.1°C
Liquid Temperature:	22.6°C
ConvF:	4.83
Duty factor:	1:1



Maximum location: X=18.00, Y=14.00

SAR 10g (W/Kg)	0.179845
SAR 1g (W/Kg)	0.395741



System Performance Check (Body, 2450MHz)

Type: Phone measurement

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

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

Date of measurement: 05/15/2018

Measurement duration: 22 minutes 38 seconds

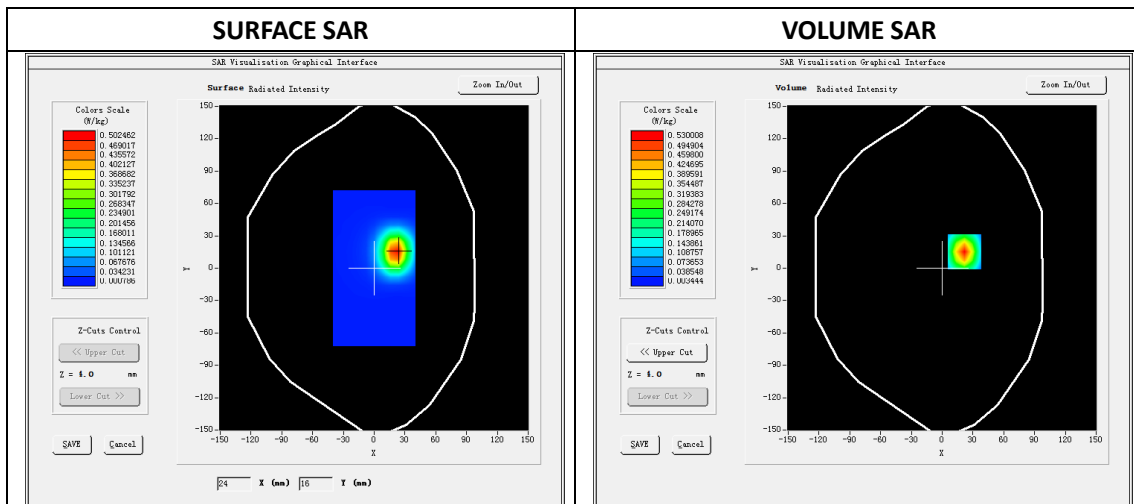
A. Experimental conditions.

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

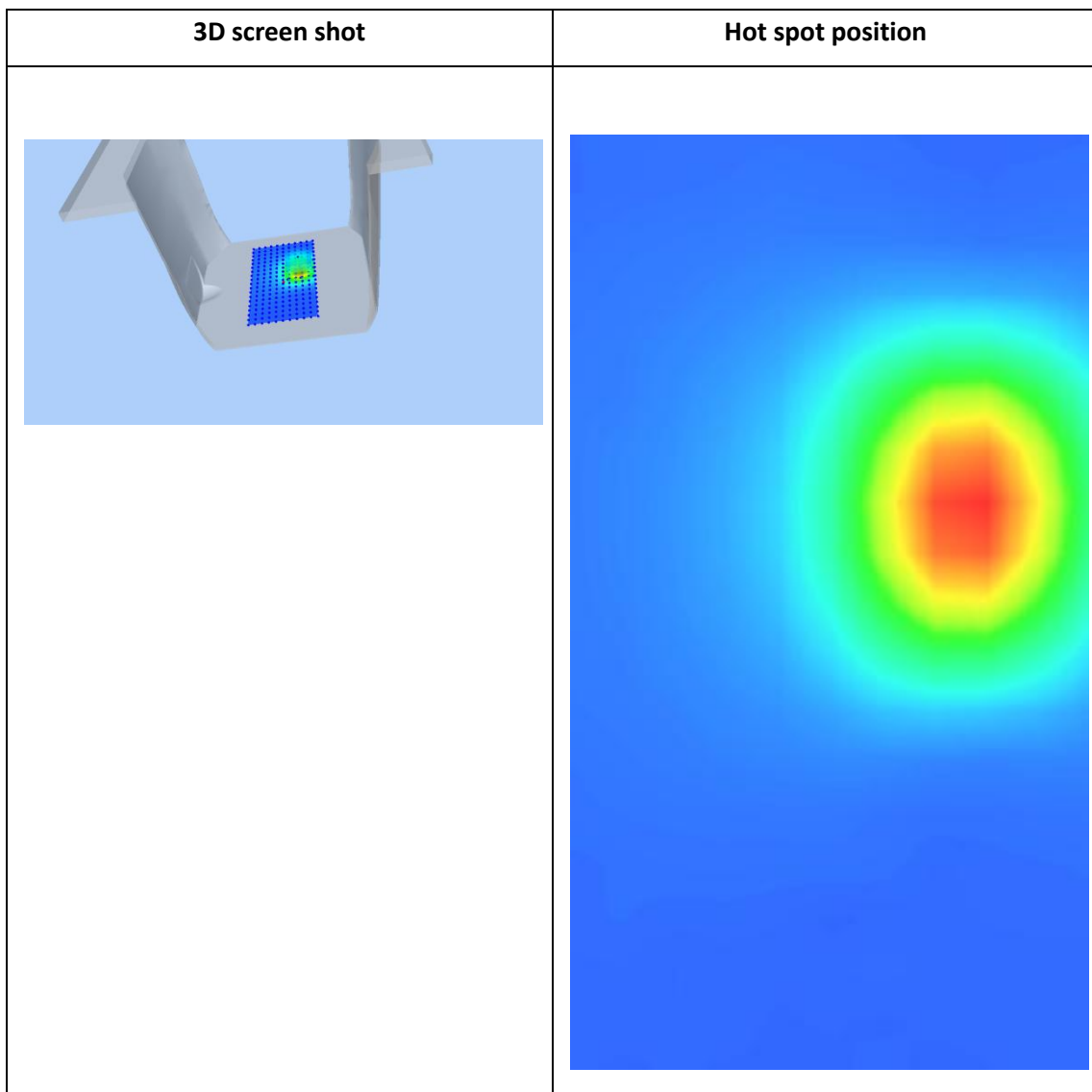
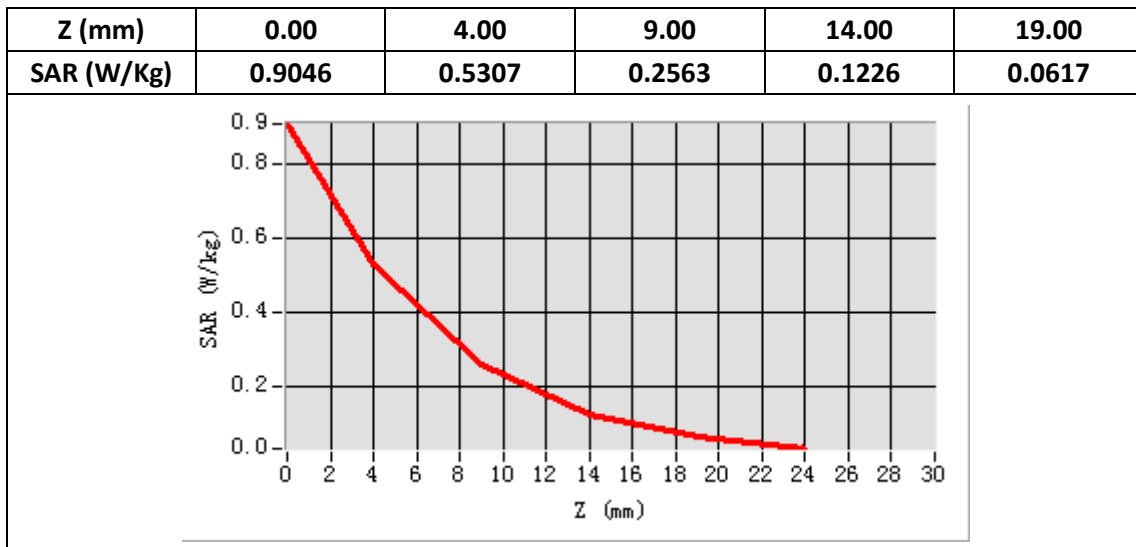
Band SAR

E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	2450
Relative permittivity (real part)	52.36
Relative permittivity	15.04
Conductivity (S/m)	1.92
Power Drift (%)	-0.26
Duty factor:	1:1
ConvF:	4.61



Maximum location: X=22.00, Y=15.00

SAR 10g (W/Kg)	0.226964
SAR 1g (W/Kg)	0.512794



System Performance Check (Body, 2600MHz)

Type: Phone measurement

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

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

Date of measurement: 05/21/2018

Measurement duration: 22 minutes 21 seconds

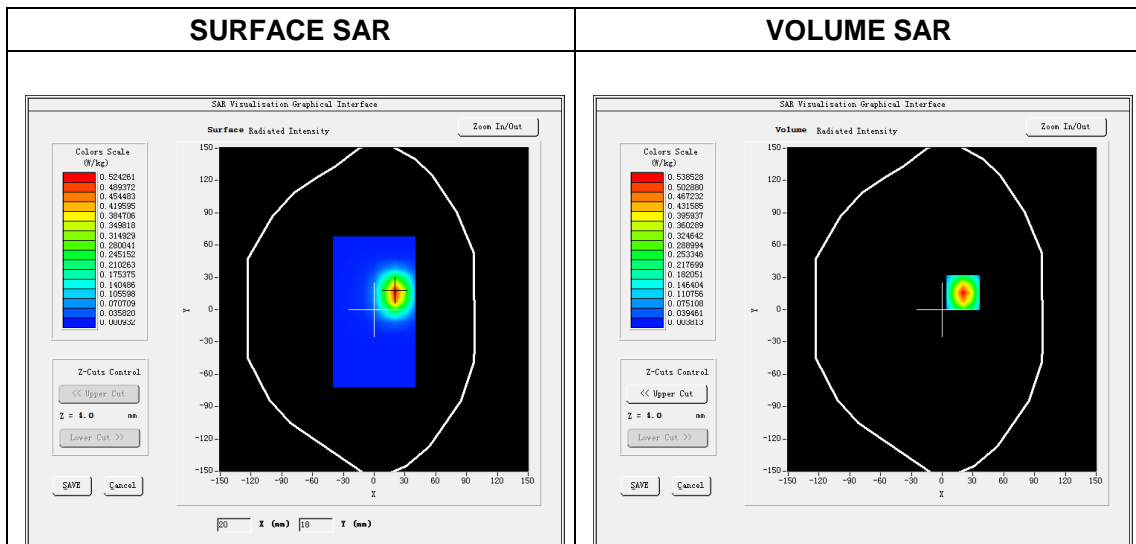
A. Experimental conditions.

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

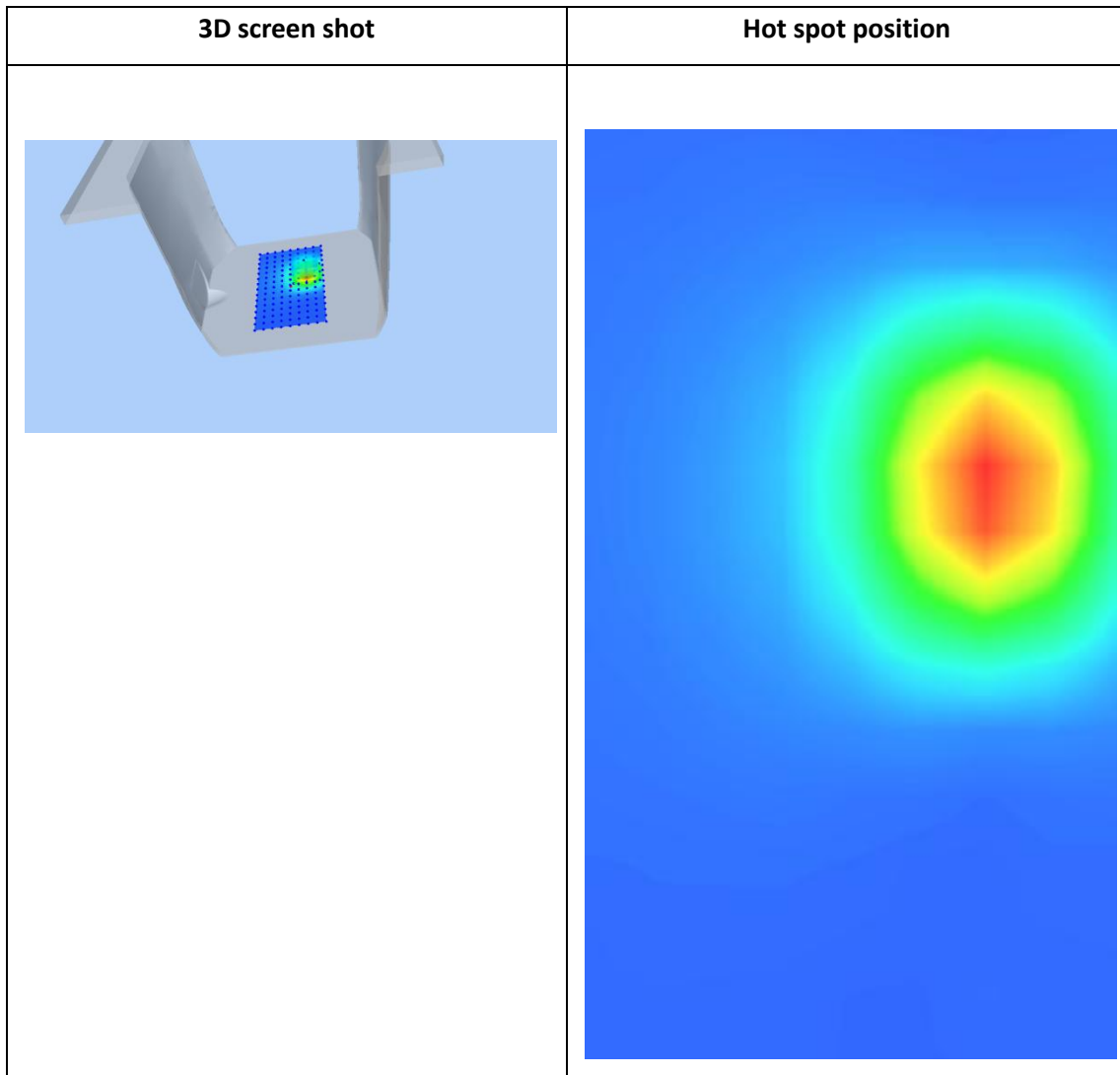
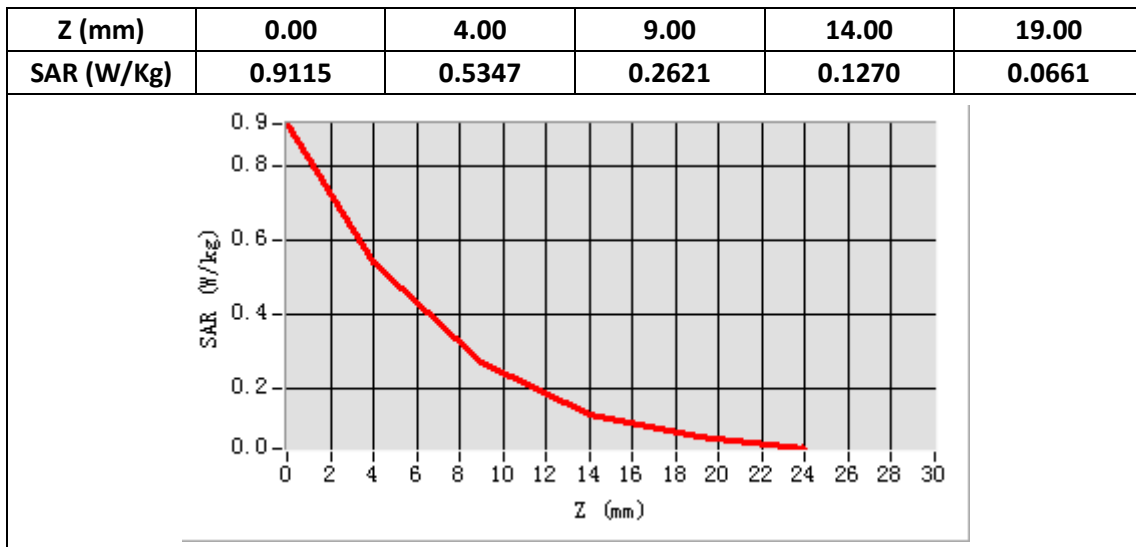
Band SAR

E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	2600
Relative permittivity (real part)	52.41
Relative permittivity	14.26
Conductivity (S/m)	2.06
Power drift (%)	-1.29
Ambient Temperature:	22.2°C
Liquid Temperature:	22.5°C
Crest factor:	1:1
ConvF:	4.28



Maximum location: X=20.00, Y=16.00

SAR 10g (W/Kg)	0.27613
SAR 1g (W/Kg)	0.552080



System Performance Check (Head, 750MHz)

Type: Validation measurement

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

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

Date of measurement: 07/17/2018

Measurement duration: 22 minutes 11seconds

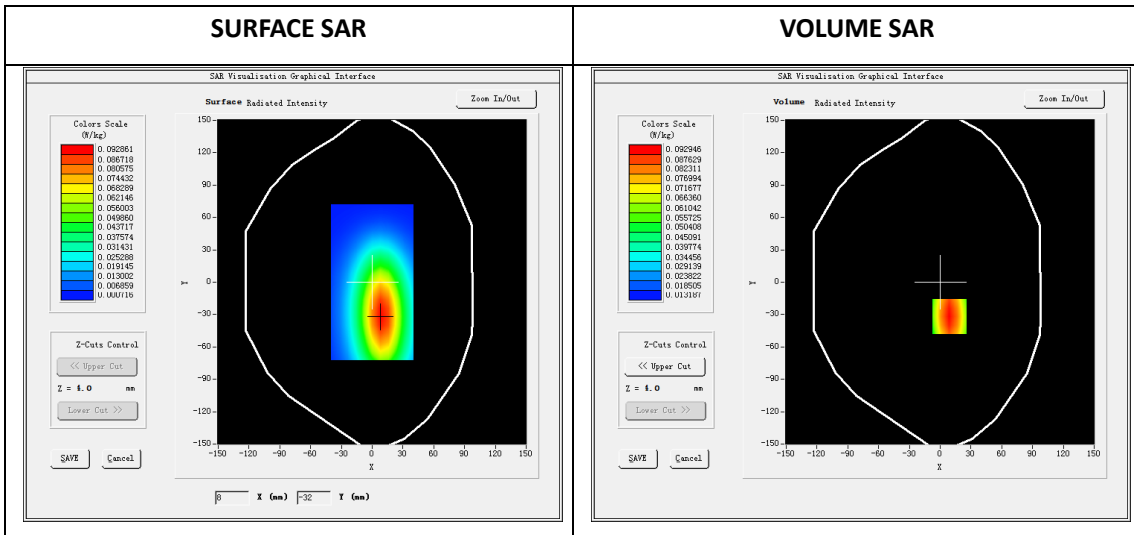
A. Experimental conditions.

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

B. SAR Measurement Results

Band SAR

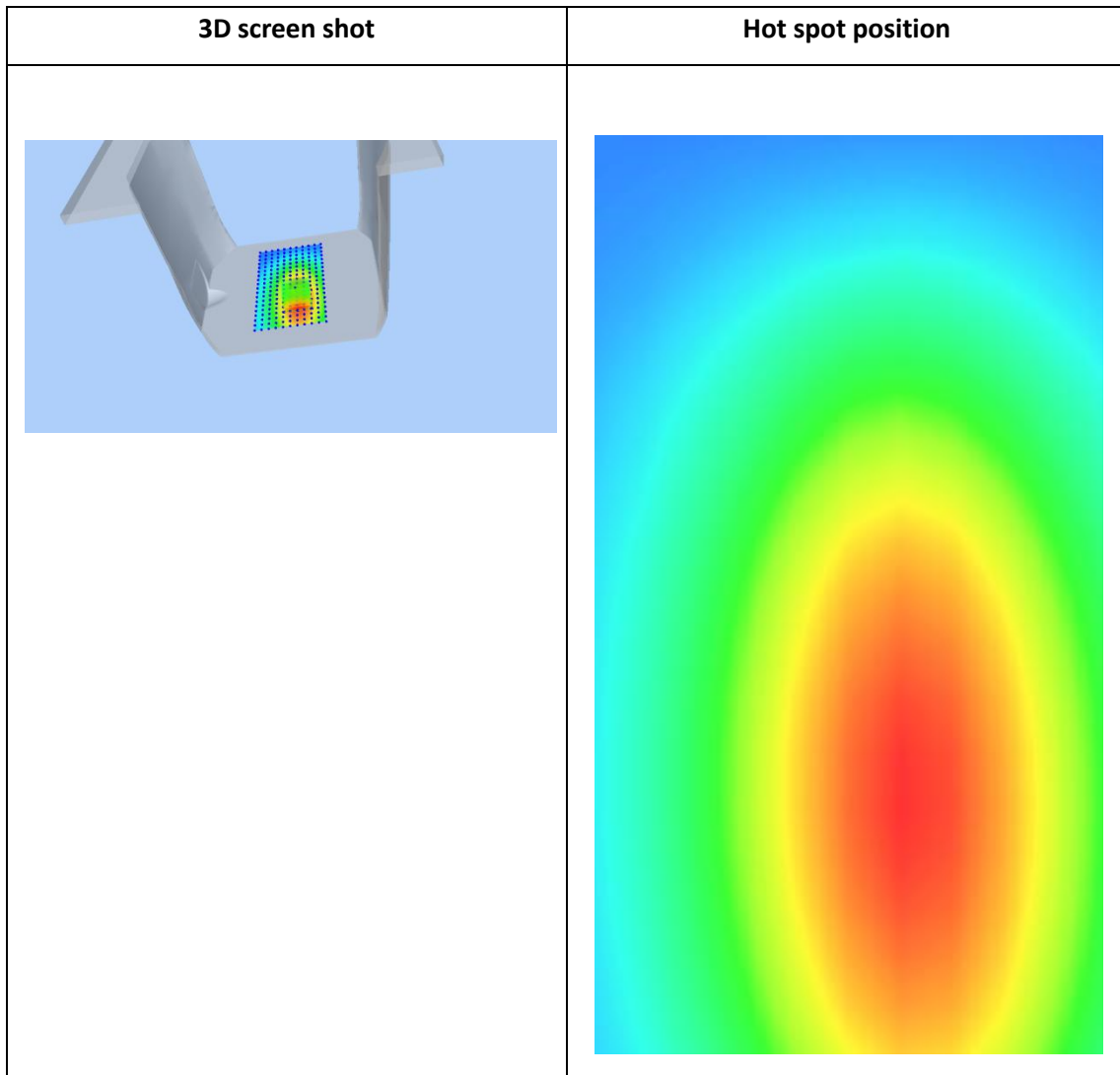
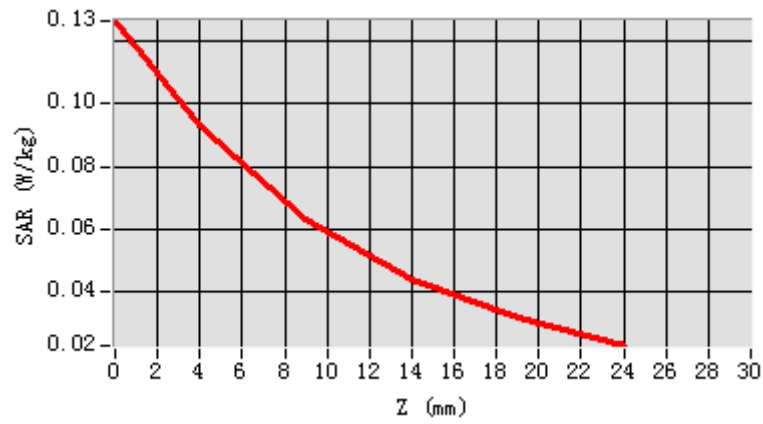
E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	750
Relative permittivity (real part)	42.01
Relative permittivity	21.55
Conductivity (S/m)	0.91
Power drift (%)	-0.25
Ambient Temperature:	22.2°C
Liquid Temperature:	22.5°C
ConvF:	4.80
Duty factor:	1:1



Maximum location: X=8.00, Y=-32.00

SAR 10g (W/Kg)	0.057154
SAR 1g (W/Kg)	0.087451

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.1245	0.0921	0.0628	0.0419	0.0323



System Performance Check (Head, 835MHz)

Type: Validation measurement

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

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

Date of measurement: 07/17/2018

Measurement duration: 22 minutes 33seconds

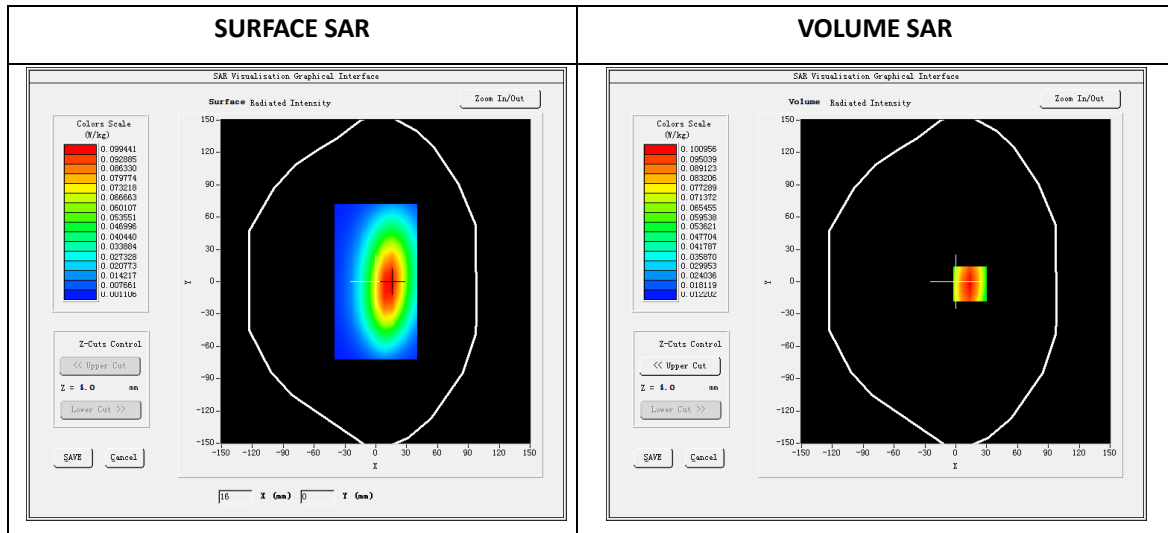
A. Experimental conditions.

Phantom File	dx=8mm dy=8mm
Phantom	5x5x7,dx=8mm dy=8mm dz=5mm
Device Position	Dipole
Band	850MHz
Channels	
Signal	CW

B. SAR Measurement Results

Band SAR

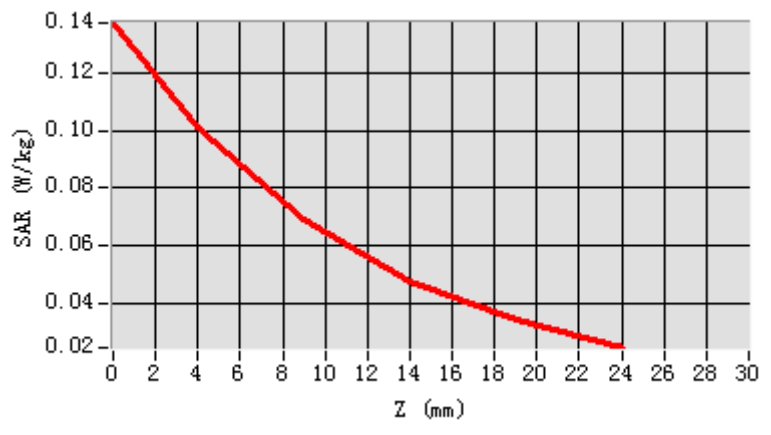
E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	835
Relative permittivity (real part)	41.32
Relative permittivity	19.82
Conductivity (S/m)	0.91
Power drift (%)	-0.55
Ambient Temperature:	22.2°C
Liquid Temperature:	22.5°C
ConvF:	4.99
Duty factor:	1:1

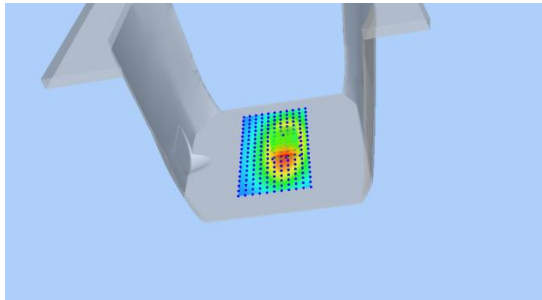
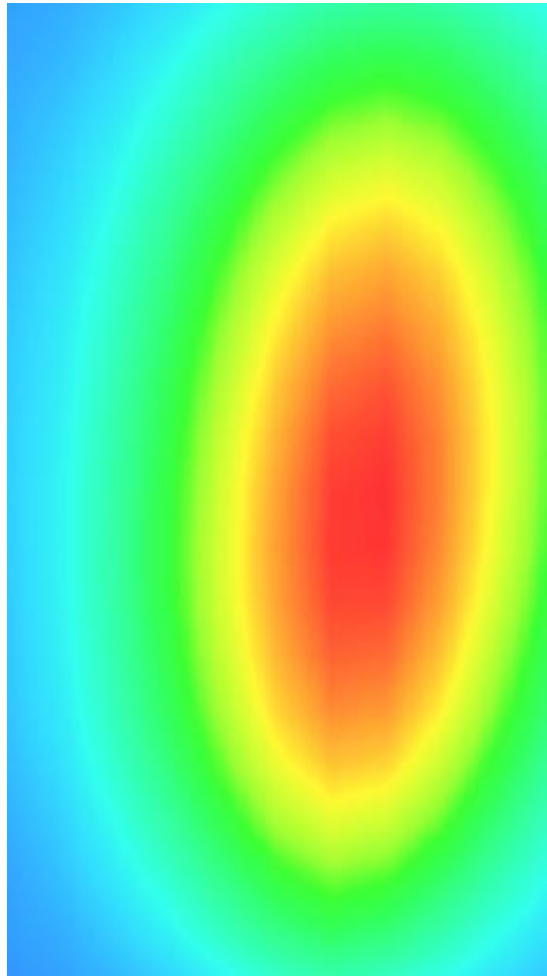


Maximum location: X=14.00, Y=-2.00

SAR 10g (W/Kg)	0.063298
SAR 1g (W/Kg)	0.096774

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.1372	0.1010	0.0689	0.0479	0.0344



3D screen shot	Hot spot position
	

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: 07/18/2018

Measurement duration: 22 minutes 36seconds

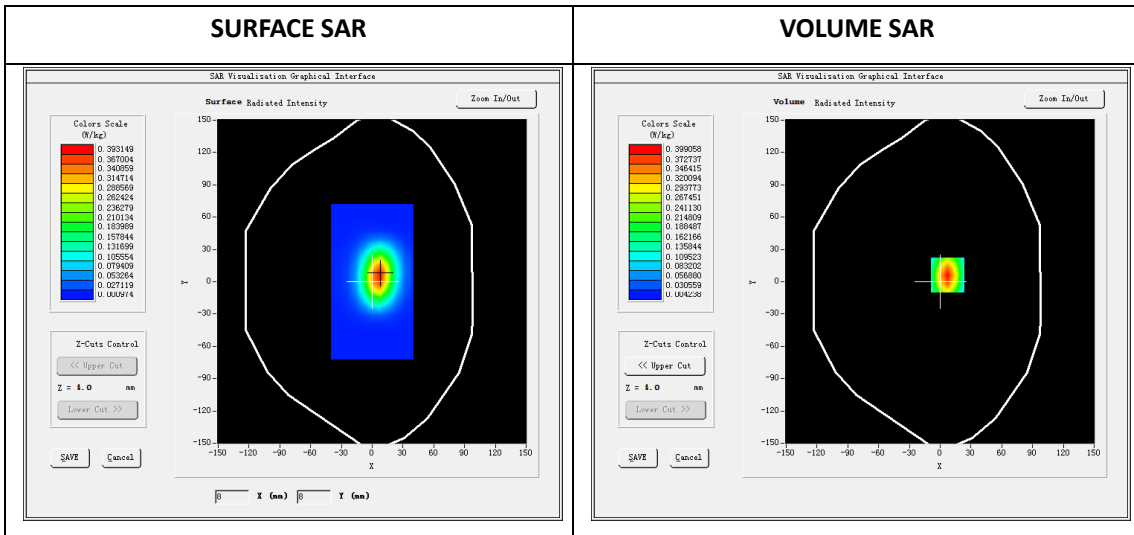
A. Experimental conditions.

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

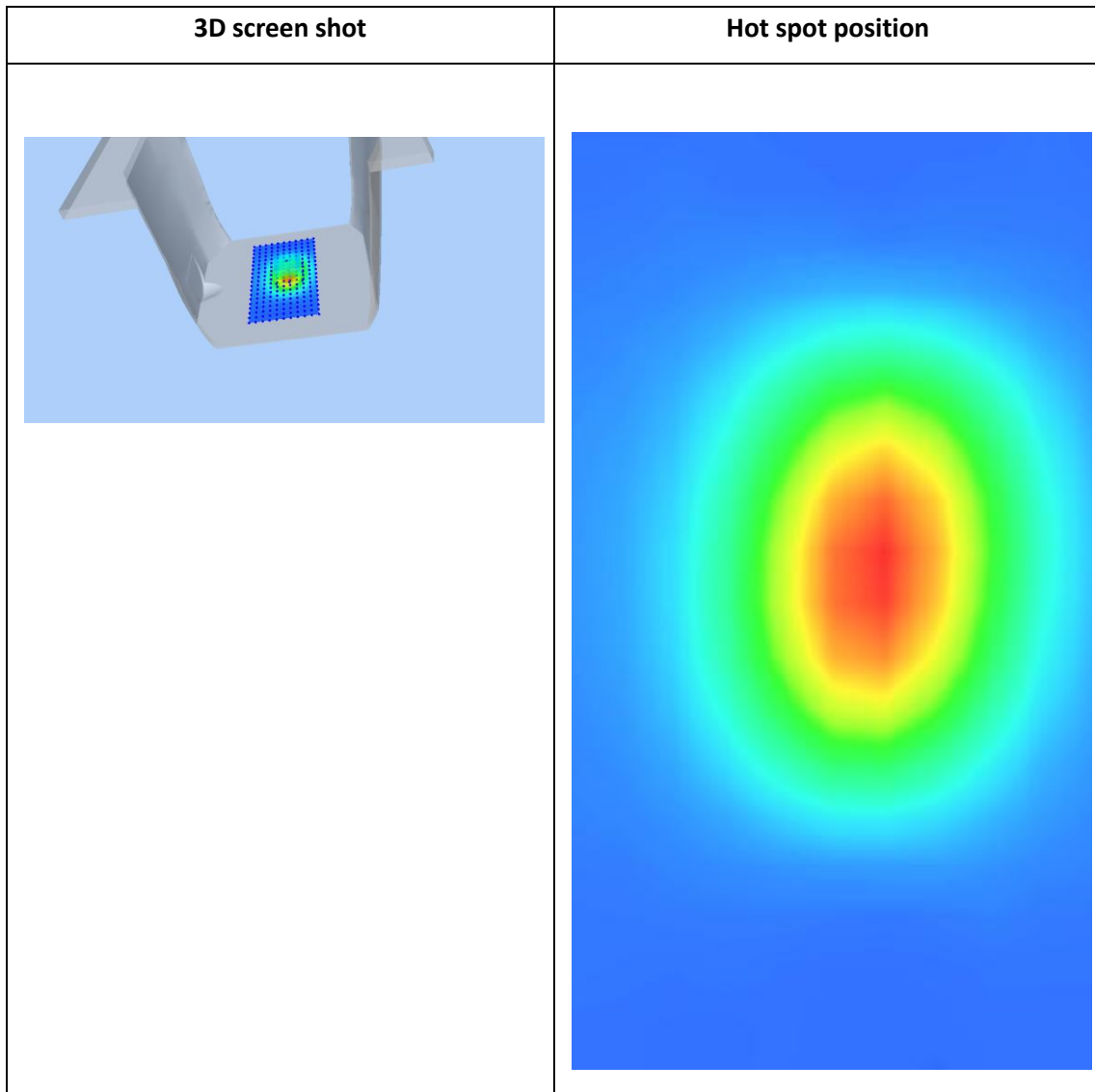
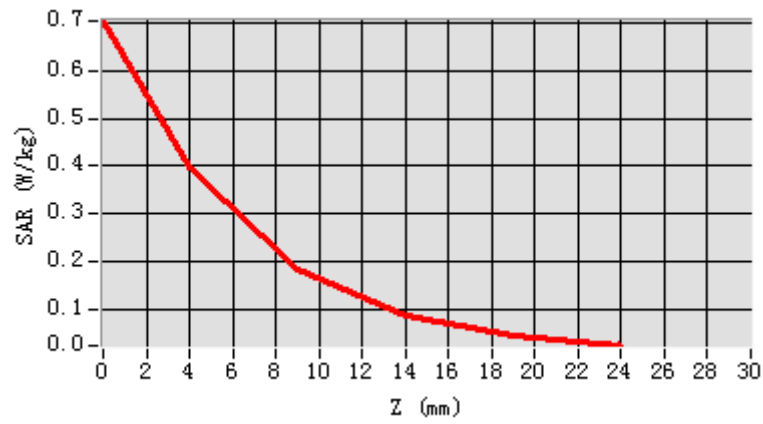
E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	1800
Relative permittivity (real part)	41.72
Relative permittivity	14.15
Conductivity (S/m)	1.41
Power drift (%)	-0.13
Ambient Temperature:	22.2°C
Liquid Temperature:	22.5°C
ConvF:	4.29
Duty factor:	1:1



Maximum location: X=7.00, Y=6.00

SAR 10g (W/Kg)	0.176236
SAR 1g (W/Kg)	0.370681

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.7057	0.3991	0.1838	0.0839	0.0421



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: 07/18/2018

Measurement duration: 22 minutes 53seconds

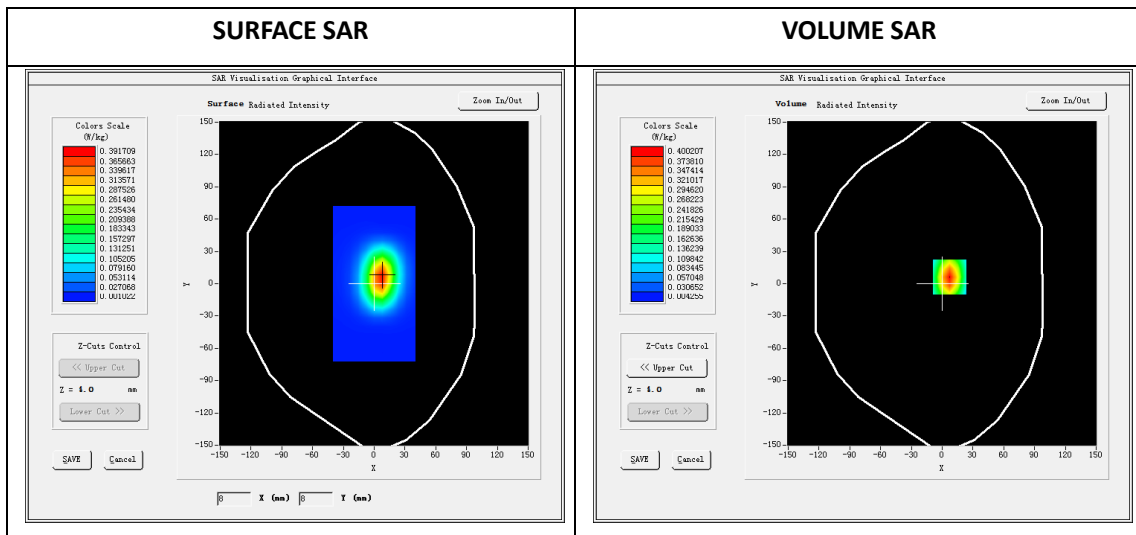
A. Experimental conditions.

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

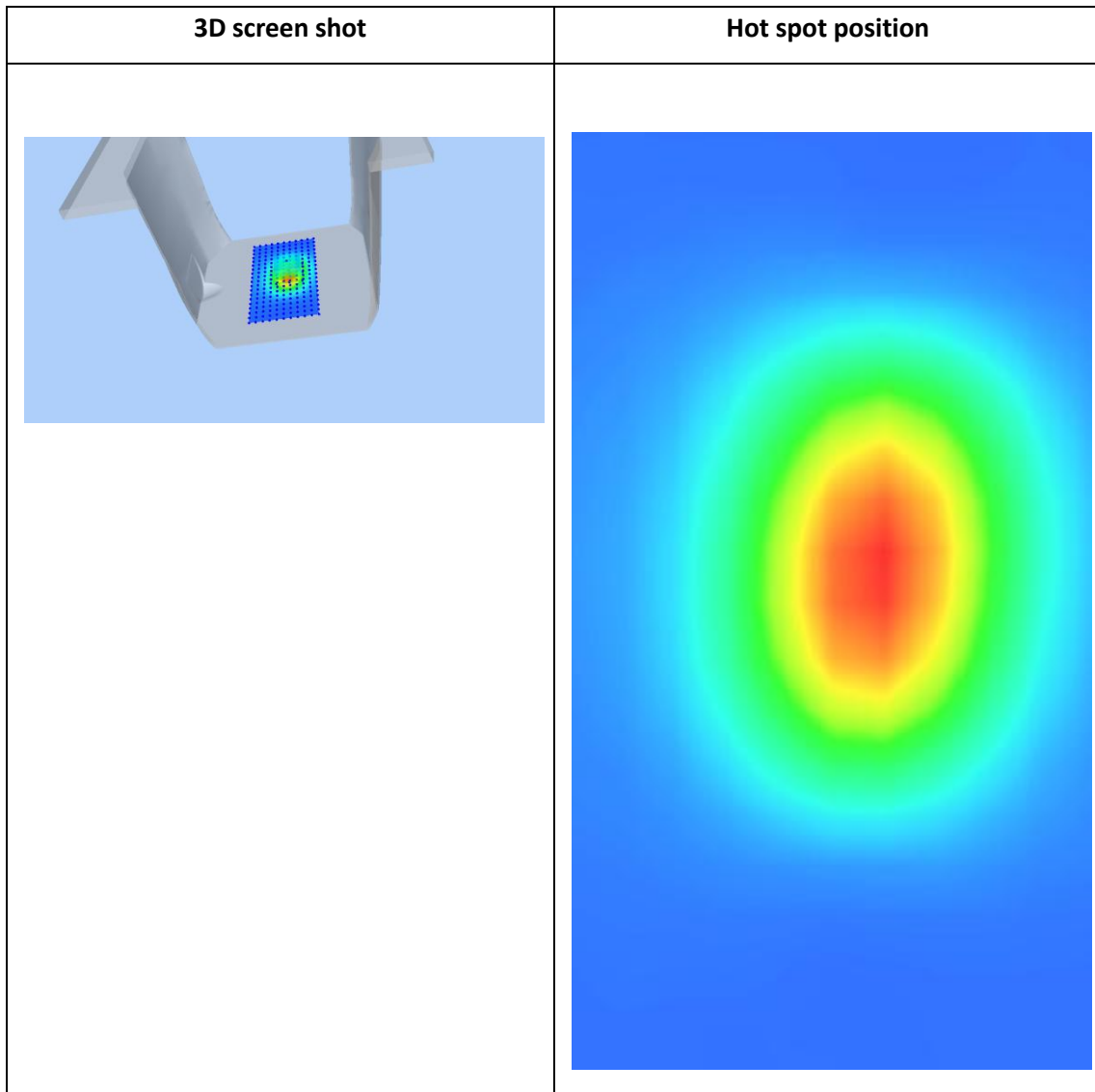
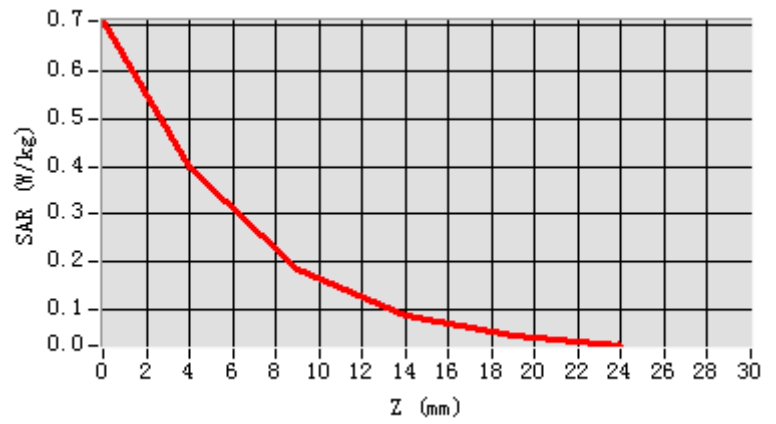
E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	1900
Relative permittivity (real part)	41.72
Relative permittivity	14.15
Conductivity (S/m)	1.41
Power drift (%)	-1.03
Ambient Temperature:	22.2°C
Liquid Temperature:	22.5°C
ConvF:	4.73
Duty factor:	1:1



Maximum location: X=7.00, Y=6.00

SAR 10g (W/Kg)	0.176725
SAR 1g (W/Kg)	0.371736

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.7079	0.4002	0.1843	0.0841	0.0423



System Performance Check (Head, 2450MHz)

Type: Validation measurement

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

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

Date of measurement: 07/19/2018

Measurement duration: 22 minutes 16seconds

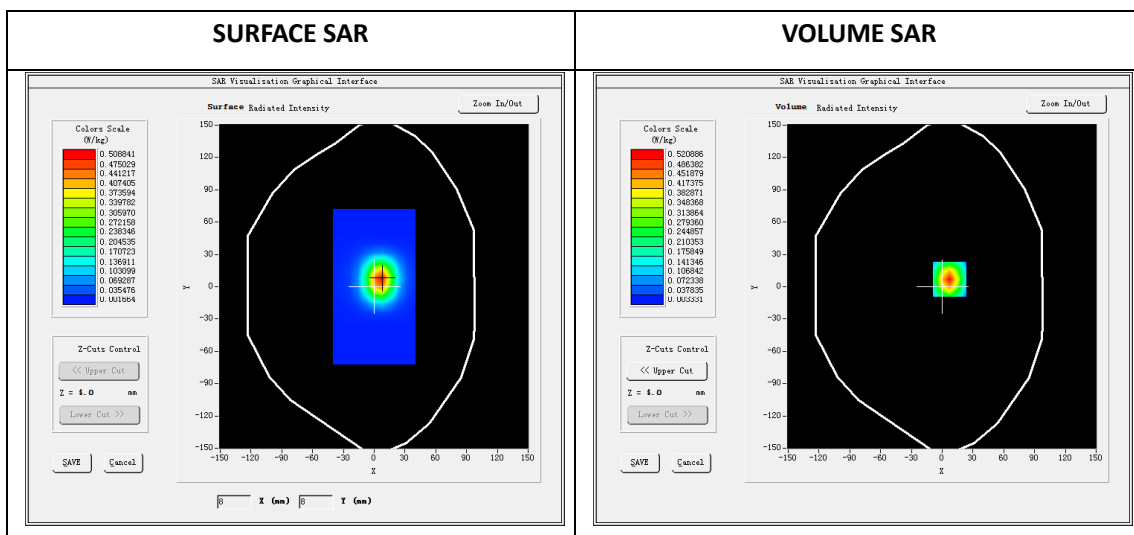
A. Experimental conditions.

Phantom File	dx=8mm dy=8mm
Phantom	5x5x7,dx=8mm dy=8mm dz=5mm
Device Position	Dipole
Band	2450MHz
Channels	
Signal	CW

B. SAR Measurement Results

Band SAR

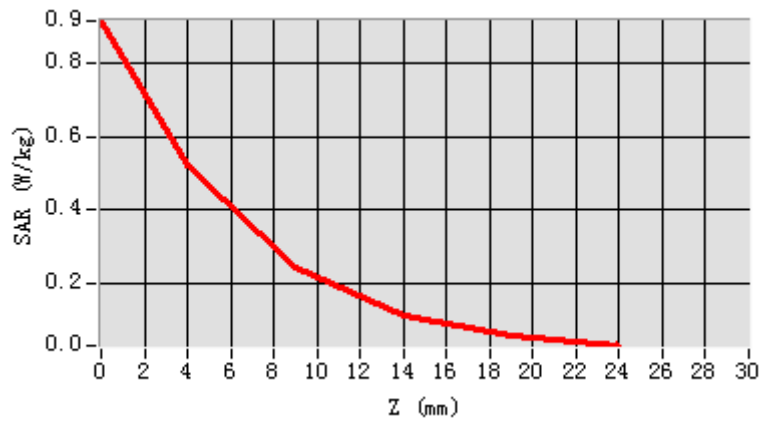
E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	2450
Relative permittivity (real part)	39.55
Relative permittivity	15.22
Conductivity (S/m)	2.07
Power drift (%)	-0.33
Ambient Temperature:	22.2°C
Liquid Temperature:	22.5°C
ConvF:	4.46
Duty factor:	1:1

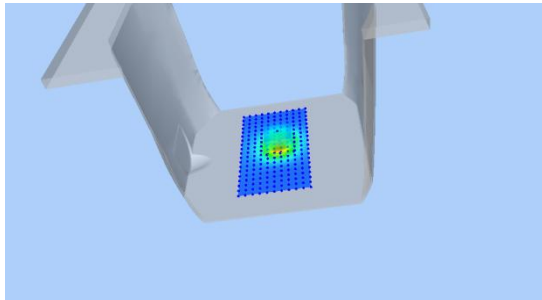
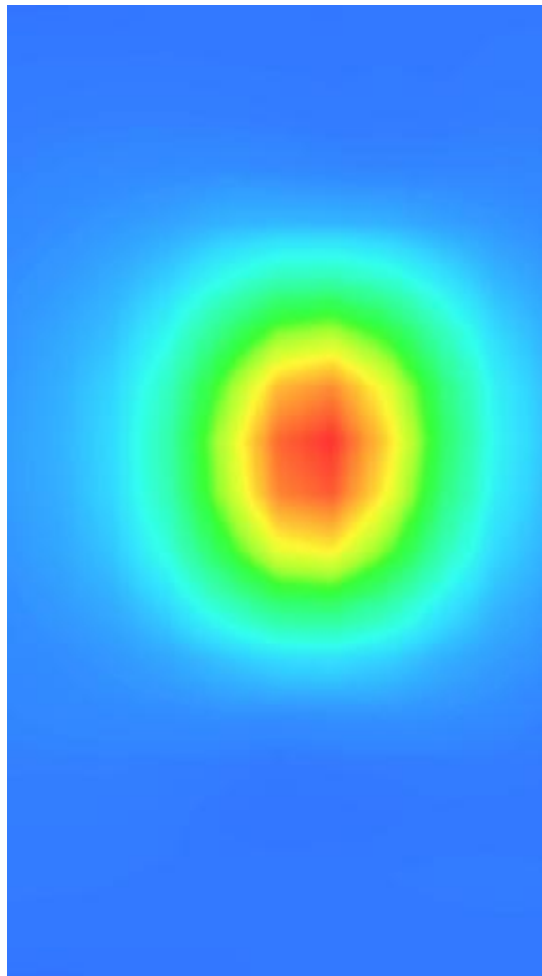


Maximum location: X=7.00, Y=7.00

SAR 10g (W/Kg)	0.223278
SAR 1g (W/Kg)	0.508154

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/kg)	0.9166	0.5209	0.2416	0.1106	0.0551



3D screen shot	Hot spot position
	

System Performance Check (Head, 2600MHz)

Type: Validation measurement

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

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

Date of measurement: 07/19/2018

Measurement duration: 22 minutes 35seconds

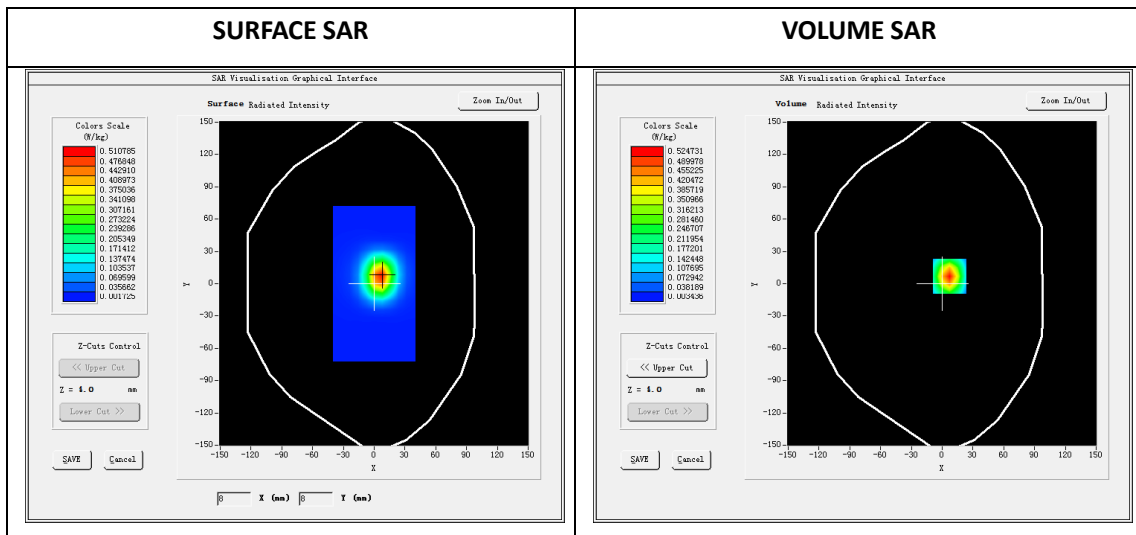
A. Experimental conditions.

Phantom File	dx=8mm dy=8mm
Phantom	5x5x7,dx=8mm dy=8mm dz=5mm
Device Position	Dipole
Band	2600MHz
Channels	
Signal	CW

B. SAR Measurement Results

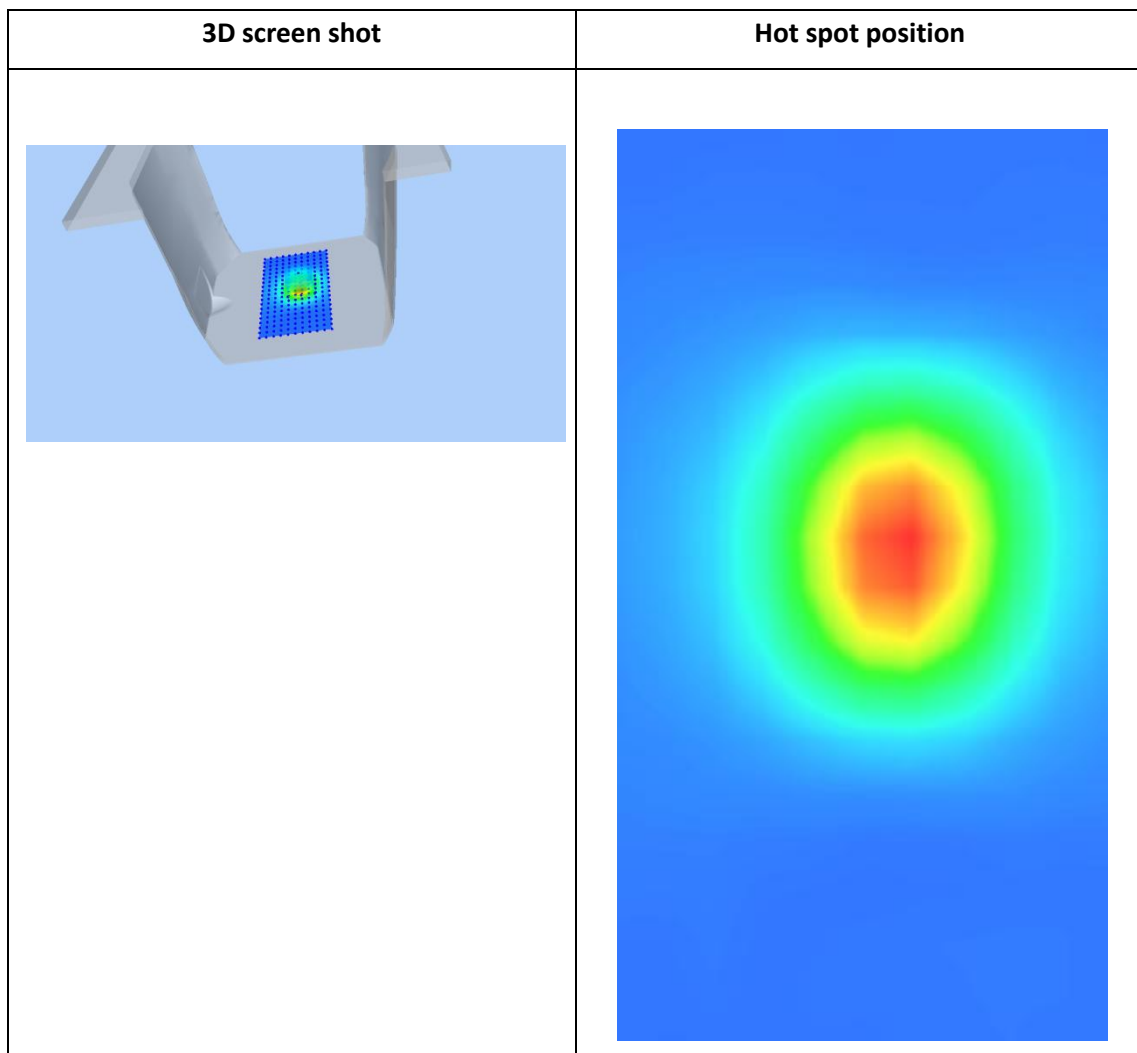
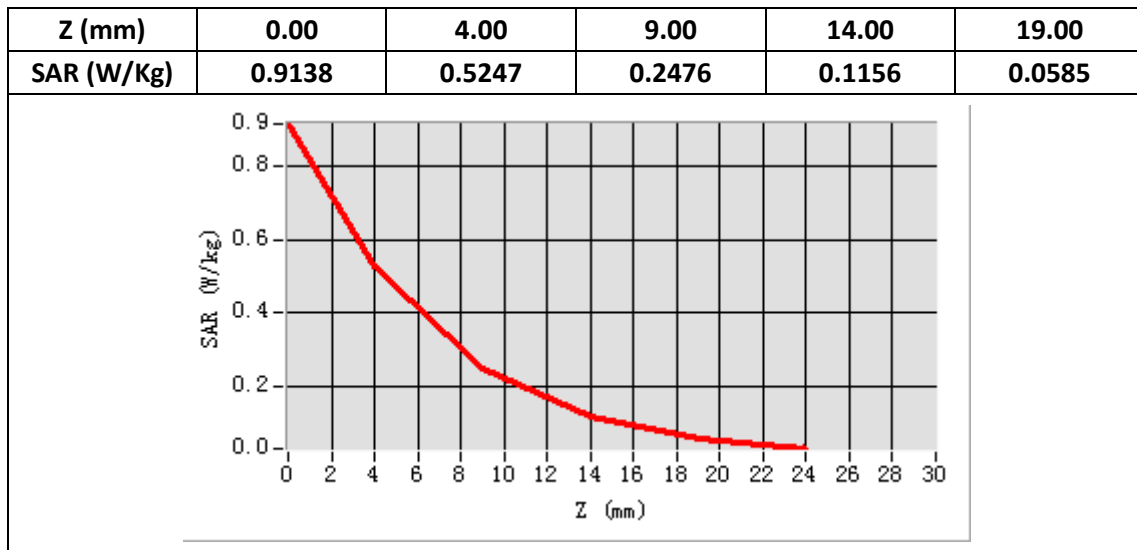
Band SAR

E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	2600
Relative permittivity (real part)	38.12
Relative permittivity	13.43
Conductivity (S/m)	1.94
Power drift (%)	-2.15
Ambient Temperature:	22.2°C
Liquid Temperature:	22.5°C
ConvF:	4.16
Duty factor:	1:1



Maximum location: X=7.00, Y=7.00

SAR 10g (W/Kg)	0.225575
SAR 1g (W/Kg)	0.511101



System Performance Check (Body, 750MHz)

Type: Validation measurement

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

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

Date of measurement: 07/17/2018

Measurement duration: 22 minutes 21seconds

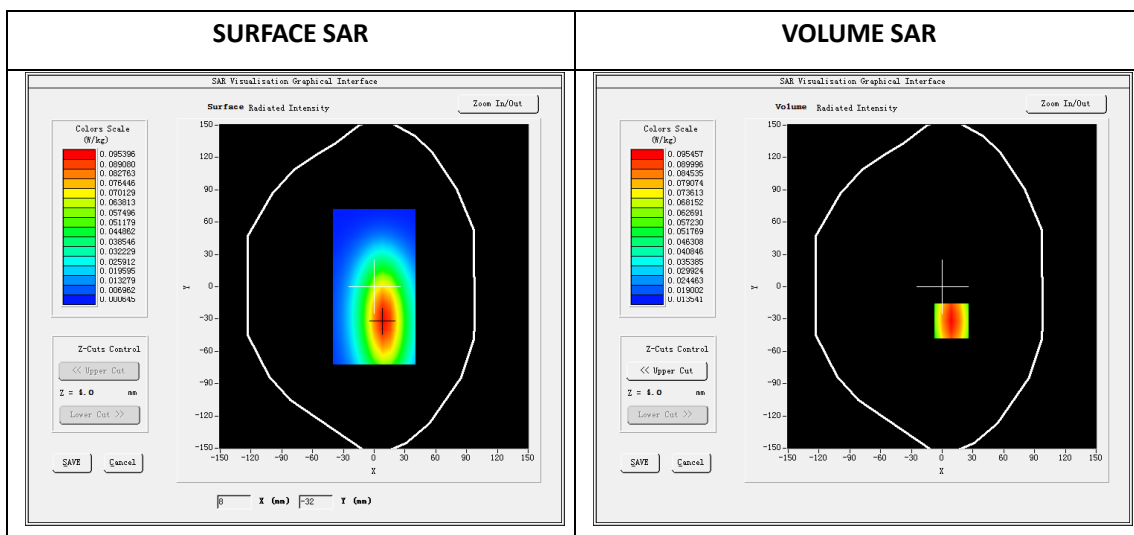
A. Experimental conditions.

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

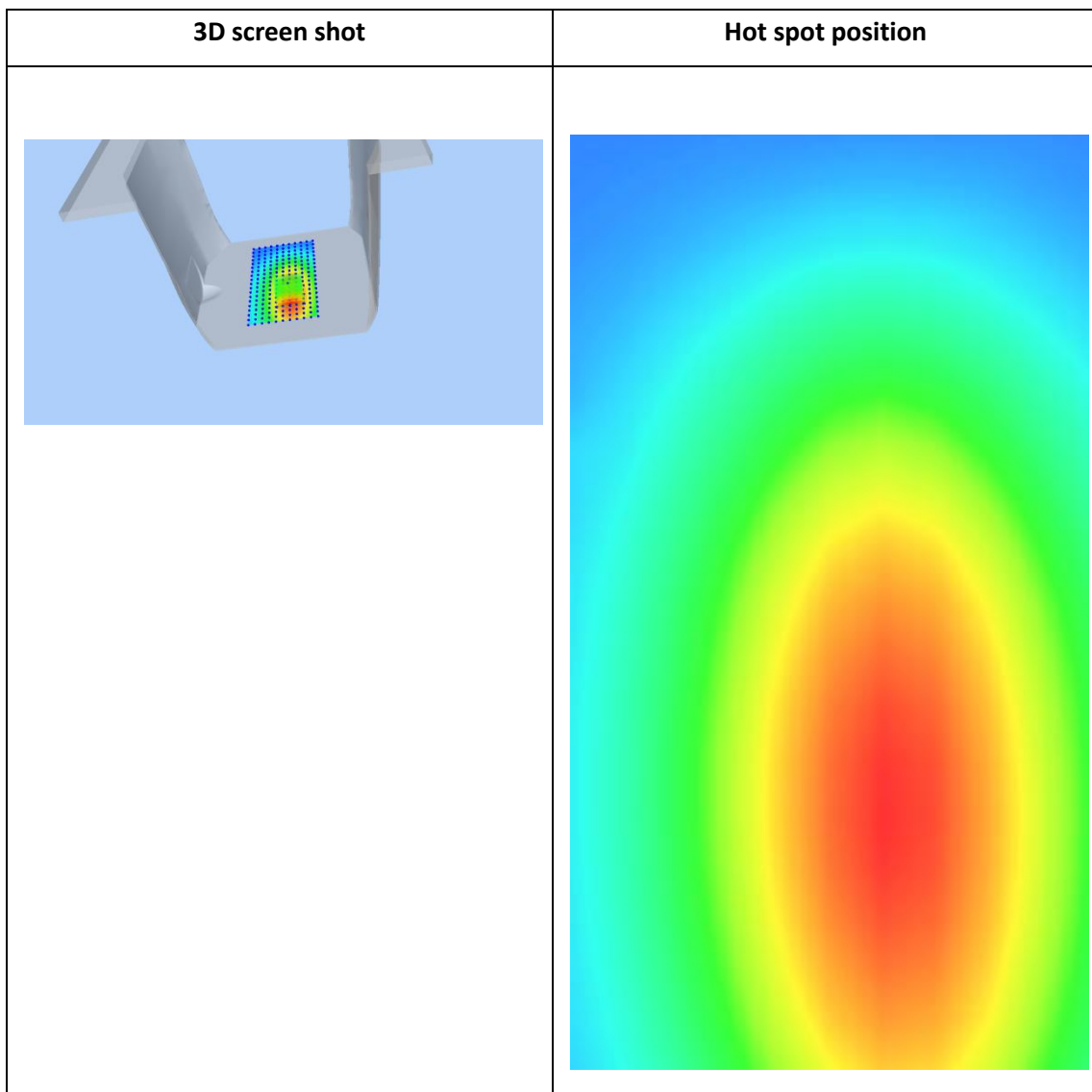
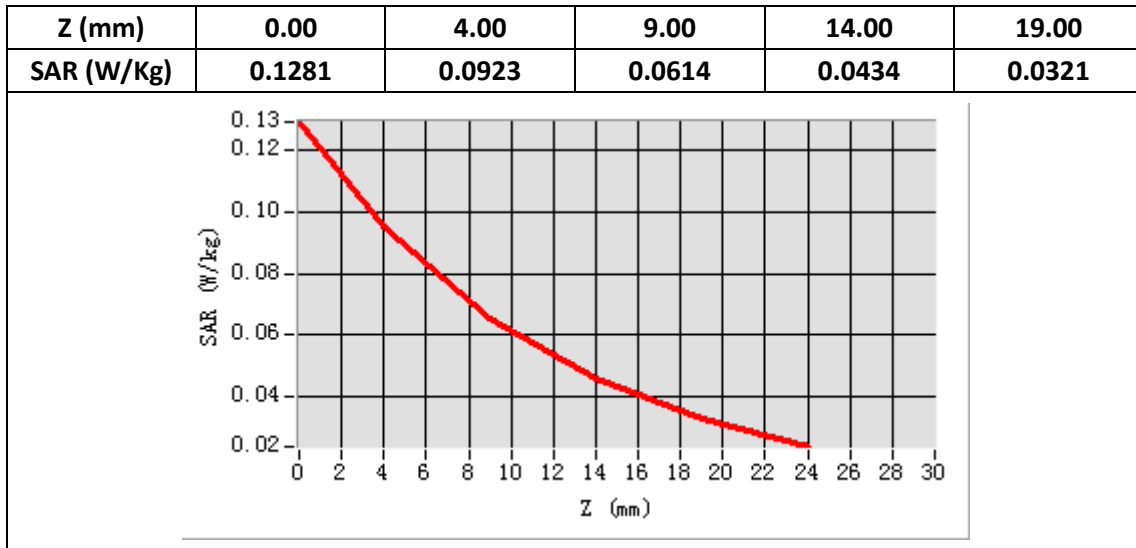
Band SAR

E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	750
Relative permittivity (real part)	55.65
Relative permittivity	22.88
Conductivity (S/m)	0.94
Power drift (%)	-0.15
Ambient Temperature:	22.2°C
Liquid Temperature:	22.5°C
ConvF:	4.94
Duty factor:	1:1



Maximum location: X=8.00, Y=-32.00

SAR 10g (W/Kg)	0.059214
SAR 1g (W/Kg)	0.088314



System Performance Check (Body, 835MHz)

Type: Validation measurement

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

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

Date of measurement: 07/17/2018

Measurement duration: 22 minutes 33seconds

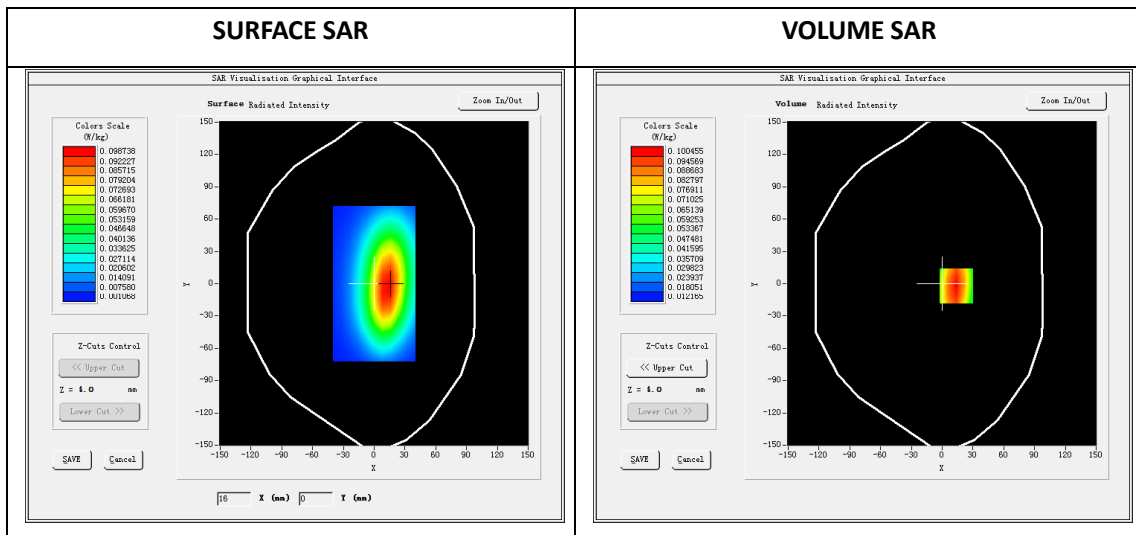
A. Experimental conditions.

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

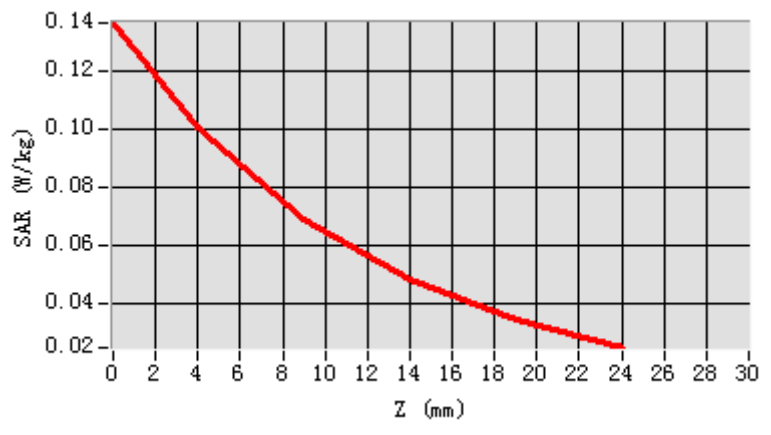
E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	835
Relative permittivity (real part)	55.35
Relative permittivity	20.45
Conductivity (S/m)	0.91
Power drift (%)	-0.21
Ambient Temperature:	22.2°C
Liquid Temperature:	22.5°C
ConvF:	5.18
Duty factor:	1:1

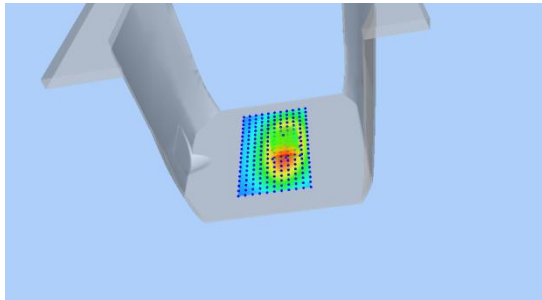
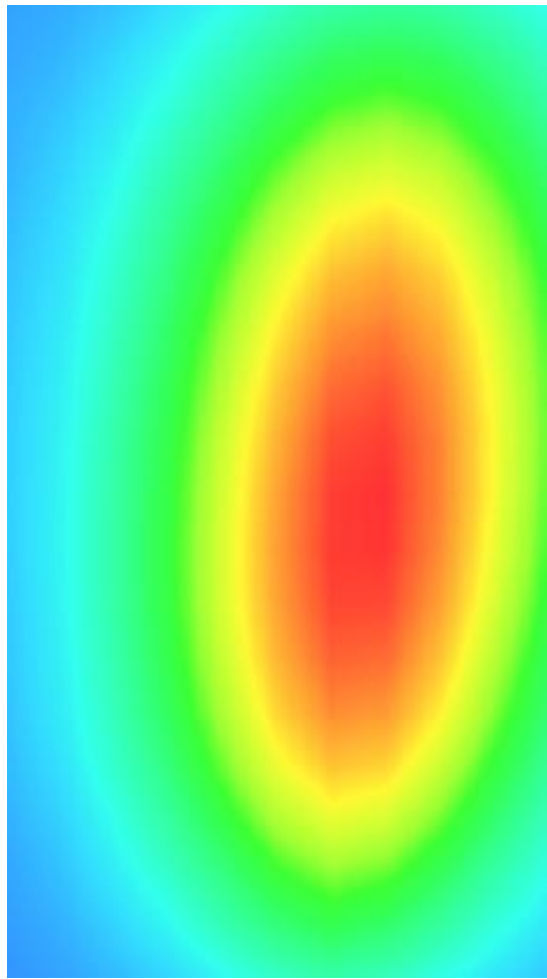


Maximum location: X=14.00, Y=-2.00

SAR 10g (W/Kg)	0.063004
SAR 1g (W/Kg)	0.096298

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.1364	0.1005	0.0686	0.0477	0.0343



3D screen shot	Hot spot position
	

System Performance Check (Body, 1800MHz)

Type: Validation measurement

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

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

Date of measurement: 07/18/2018

Measurement duration: 22 minutes 23 seconds

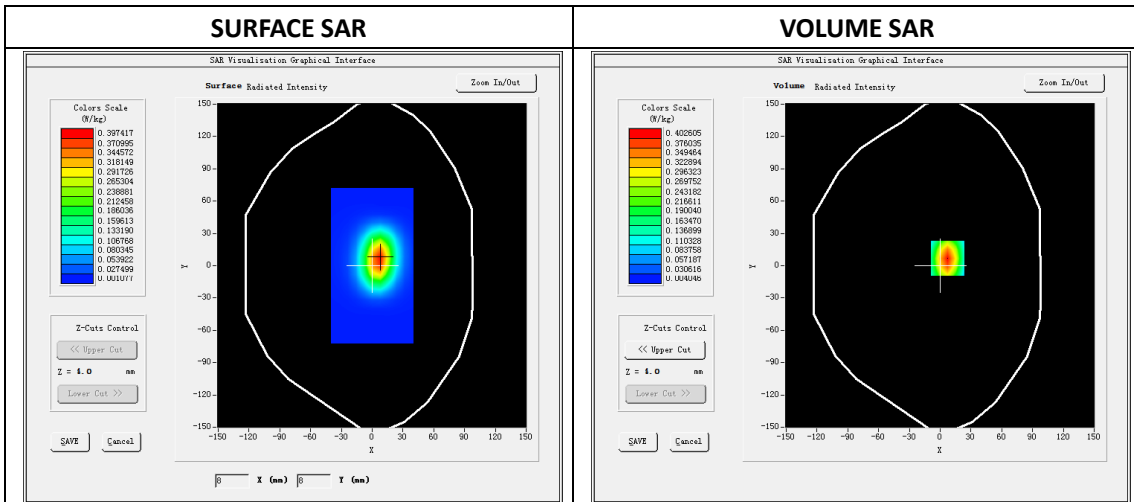
A. Experimental conditions.

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

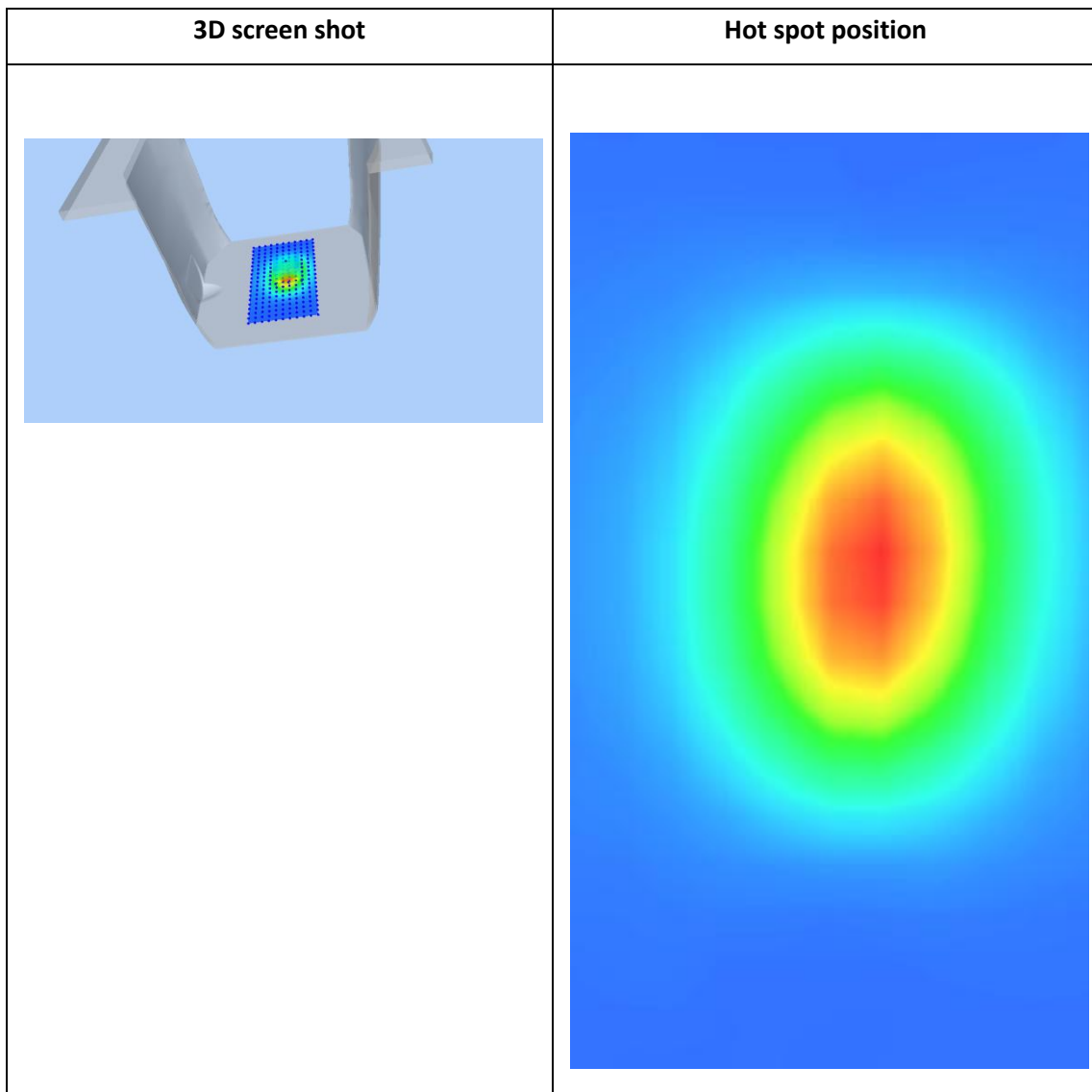
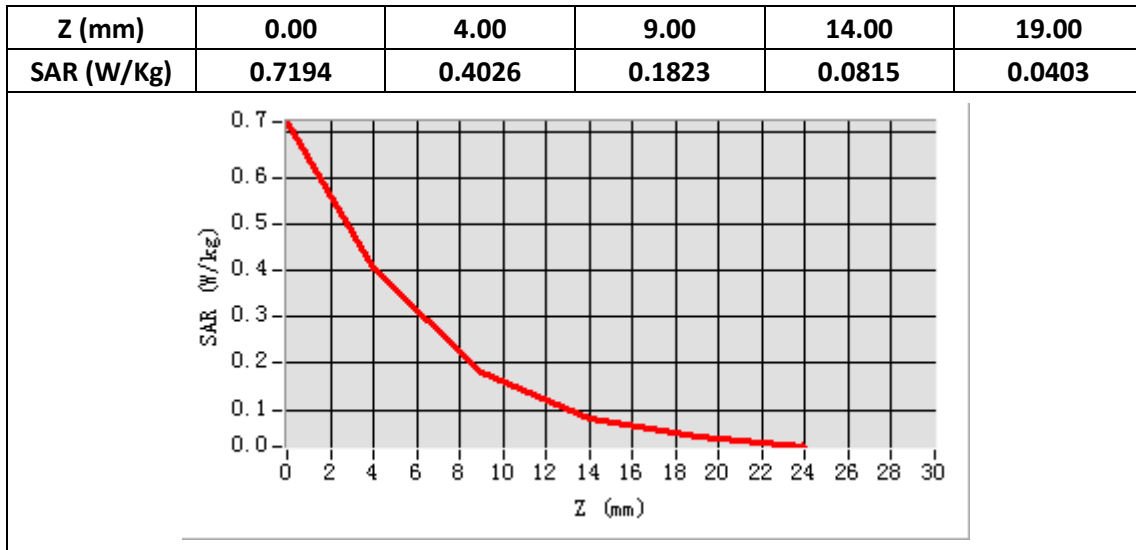
Band SAR

E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	1800
Relative permittivity (real part)	53.14
Relative permittivity	14.77
Conductivity (S/m)	1.45
Power Drift (%)	-0.45
Ambient Temperature:	22.1°C
Liquid Temperature:	22.6°C
ConvF:	4.43
Duty factor:	1:1



Maximum location: X=7.00, Y=7.00

SAR 10g (W/Kg)	0.177098
SAR 1g (W/Kg)	0.374665



System Performance Check (Body, 1900MHz)

Type: Validation measurement

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

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

Date of measurement: 07/18/2018

Measurement duration: 22 minutes 33 seconds

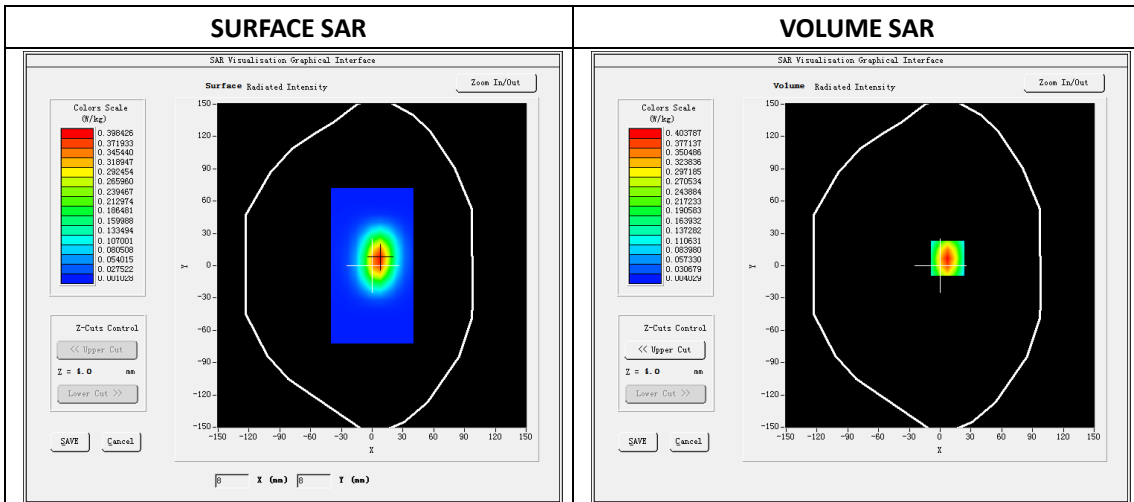
A. Experimental conditions.

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

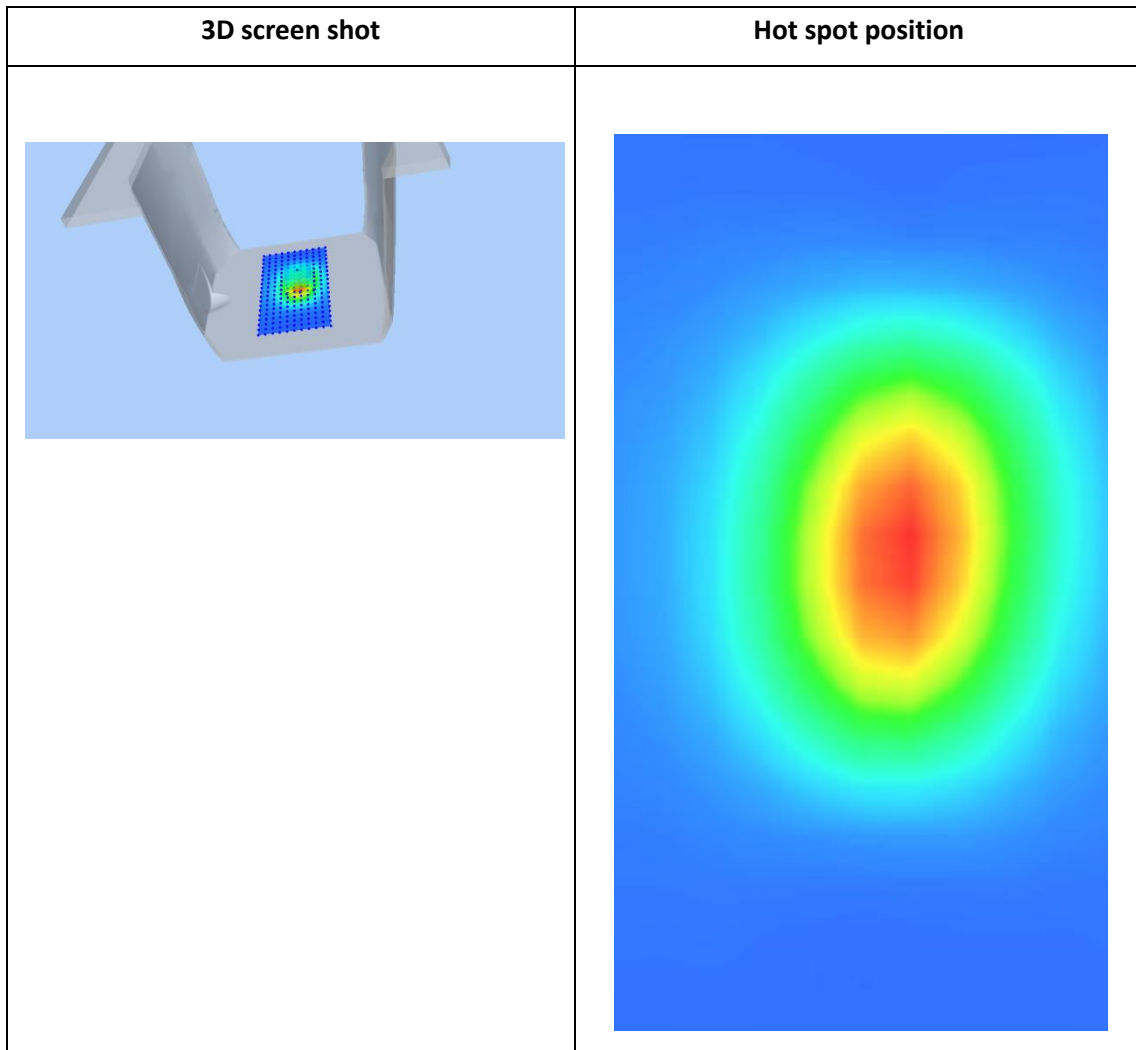
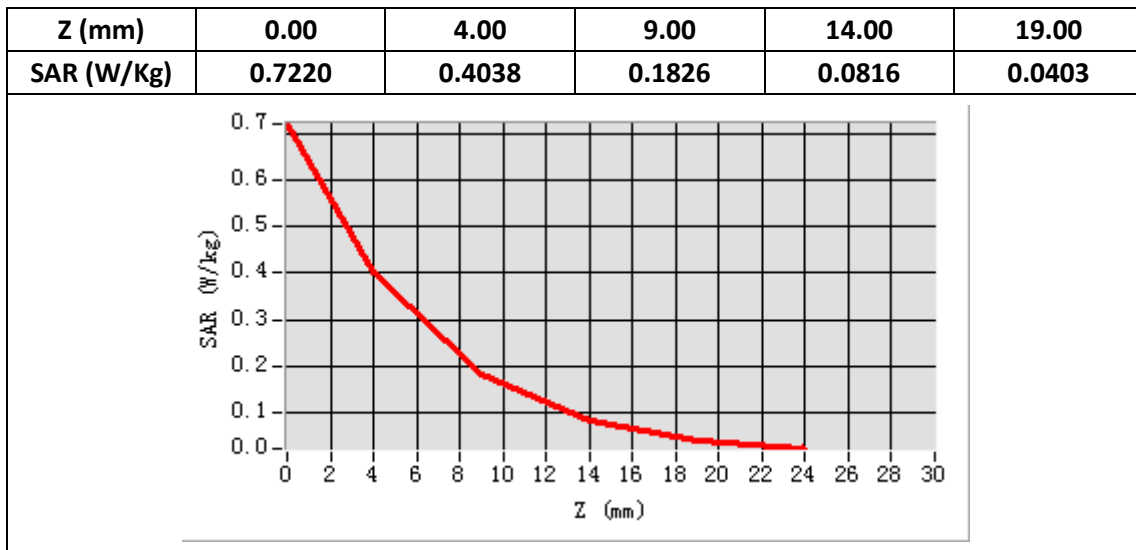
Band SAR

E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	1900
Relative permittivity (real part)	53.95
Relative permittivity	14.20
Conductivity (S/m)	1.49
Power Drift (%)	-0.12
Ambient Temperature:	22.1°C
Liquid Temperature:	22.6°C
ConvF:	4.83
Duty factor:	1:1



Maximum location: X=7.00, Y=7.00

SAR 10g (W/Kg)	0.177553
SAR 1g (W/Kg)	0.376125



System Performance Check (Body, 2450MHz)

Type: Phone measurement

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

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

Date of measurement: 07/19/2018

Measurement duration: 22 minutes 25 seconds

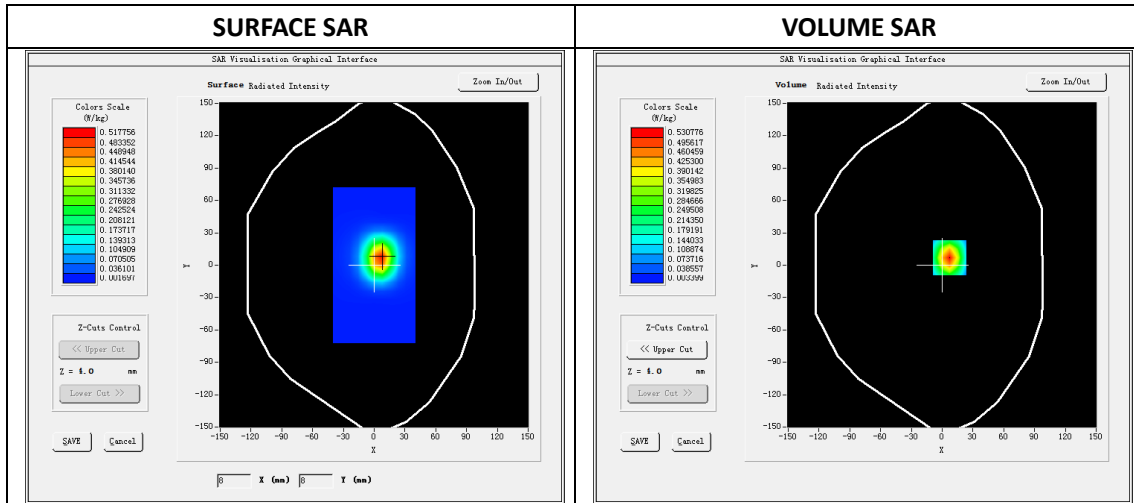
A. Experimental conditions.

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

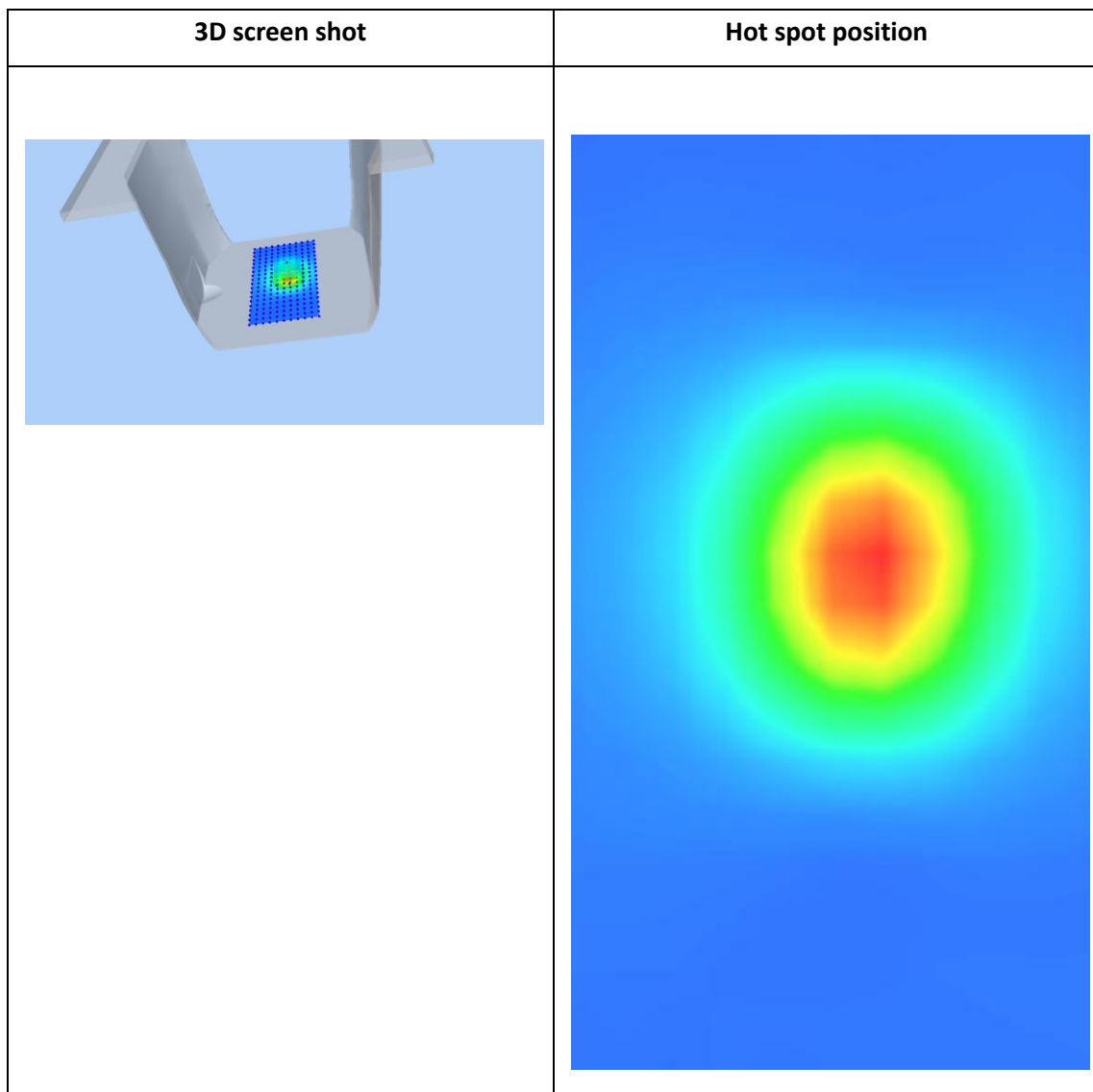
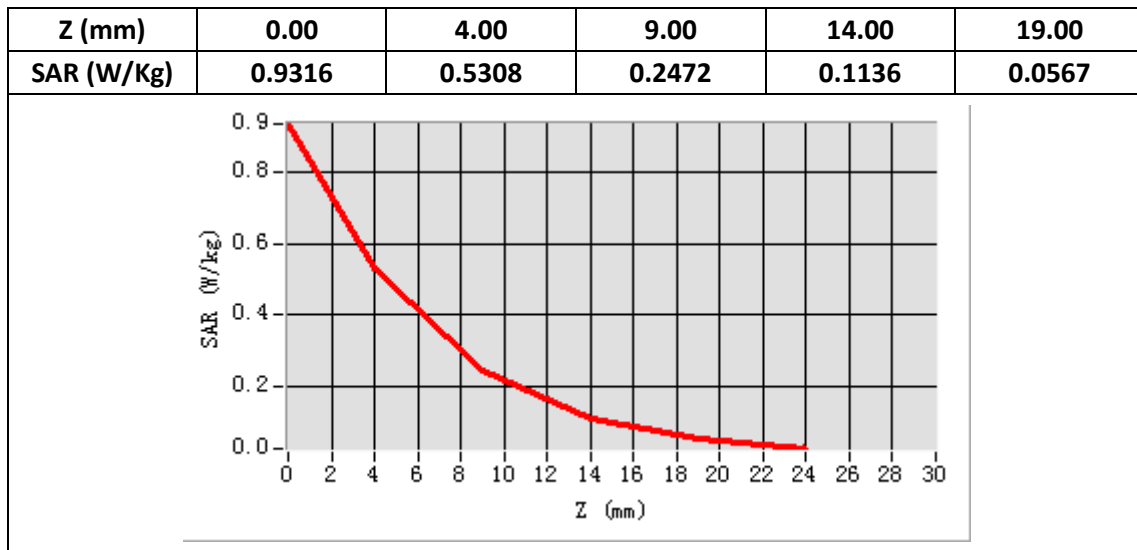
Band SAR

E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	2450
Relative permittivity (real part)	52.35
Relative permittivity	15.02
Conductivity (S/m)	1.91
Power Drift (%)	-0.15
Duty factor:	1:1
ConvF:	4.61



Maximum location: X=7.00, Y=7.00

SAR 10g (W/Kg)	0.227568
SAR 1g (W/Kg)	0.517592



System Performance Check (Body, 2600MHz)

Type: Phone measurement

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

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

Date of measurement: 07/19/2018

Measurement duration: 22 minutes 15 seconds

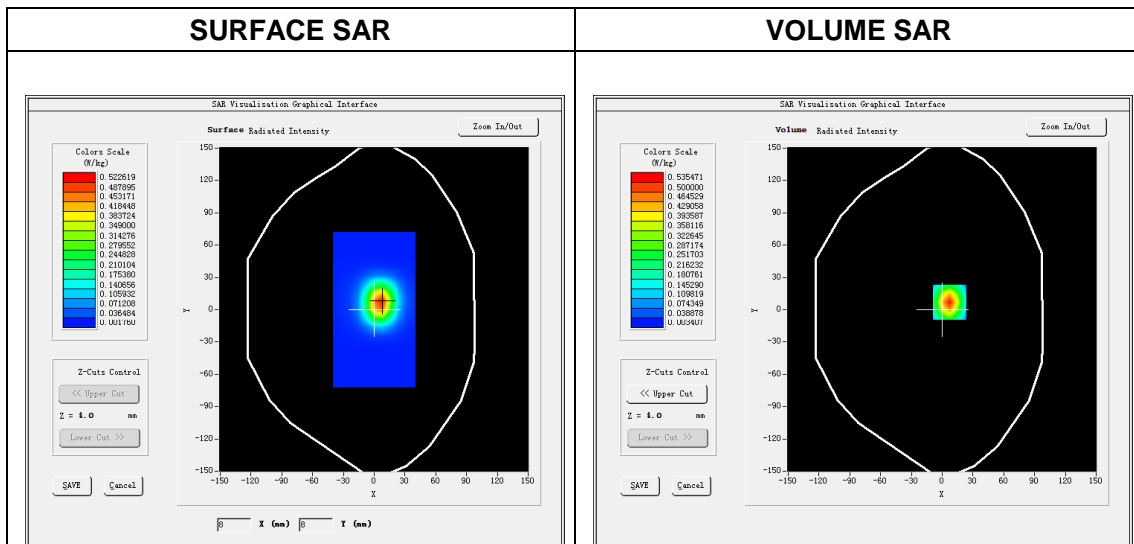
A. Experimental conditions.

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_43/15_EP276
Frequency (MHz)	2600
Relative permittivity (real part)	52.40
Relative permittivity	14.25
Conductivity (S/m)	2.01
Power drift (%)	-1.25
Ambient Temperature:	22.2°C
Liquid Temperature:	22.5°C
Crest factor:	1:1
ConvF:	4.28



Maximum location: X=7.00, Y=7.00

SAR 10g (W/Kg)	0.229603
SAR 1g (W/Kg)	0.532180

