



Appendix A: SAR System performance Check Plots

Measurement	Liquid	Frequency	Test Date
System Check	Head	750	2023/03/05
System Check	Head	835	2023/03/14
System Check	Head	1800	2023/03/08
System Check	Head	1900	2023/03/04
System Check	Head	2450	2023/03/07
System Check	Head	2600	2023/03/15
System Check	Head	5200	2023/03/17
System Check	Head	5400	2023/03/17
System Check	Head	5600	2023/03/18
System Check	Head	5800	2023/03/18

System Performance Check (750MHz)

Type: Validation measurement

Date of measurement: 03/05/2023

A. Experimental conditions.

E-Field Probe	SATIMO SN 32/22 EPG0383
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Dipole
Band	750MHz
Channels	Middle
Signal	CW(Crest factor: 1.0)

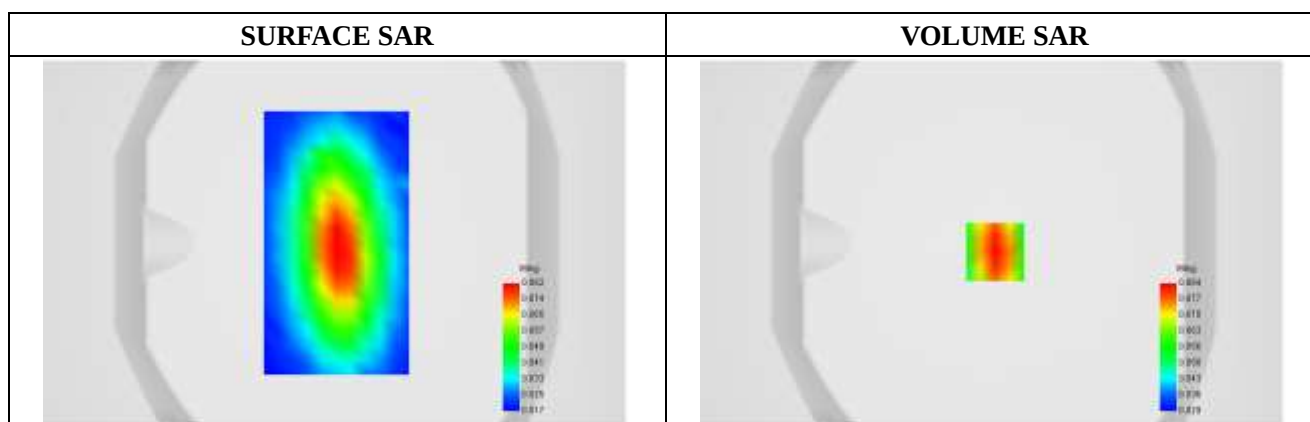
B. SAR Measurement Results

Frequency (MHz)	750
Relative permittivity (real part)	41.71
Conductivity (S/m)	0.89
Variation (%)	0.16

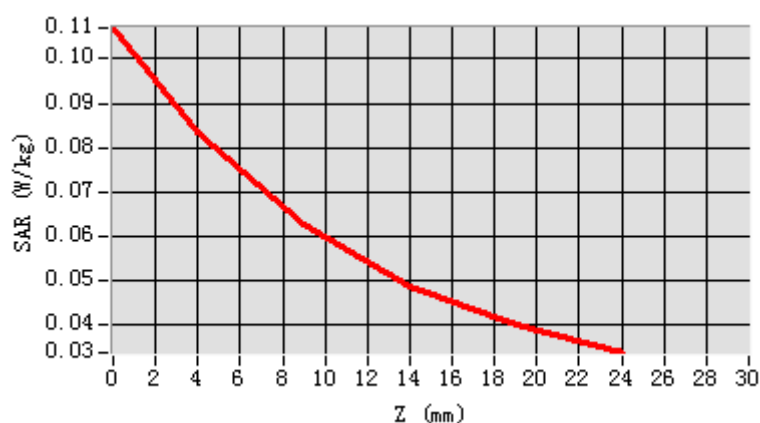
Maximum location: X=1.00, Y=-5.00

SAR Peak: 0.11 W/kg

SAR 10g (W/Kg)	0.060712
SAR 1g (W/Kg)	0.089354



Z Axis Scan



System Performance Check (835MHz)

Type: Validation measurement

Date of measurement: 03/14/2023

A. Experimental conditions.

E-Field Probe	SATIMO SN 32/22 EPG0383
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Dipole
Band	835MHz
Channels	Middle
Signal	CW(Crest factor: 1.0)

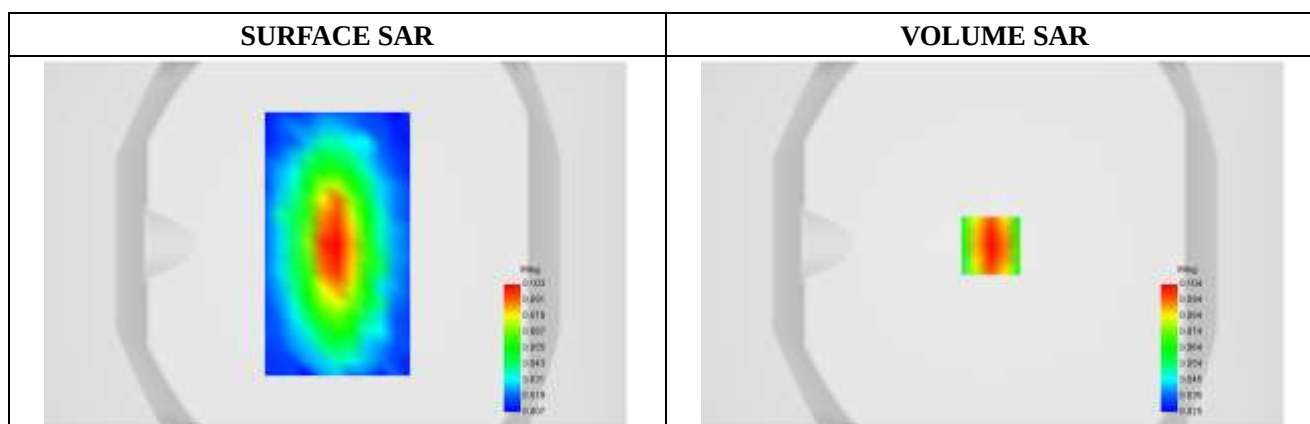
B. SAR Measurement Results

Frequency (MHz)	835
Relative permittivity (real part)	41.27
Conductivity (S/m)	0.91
Variation (%)	-0.30

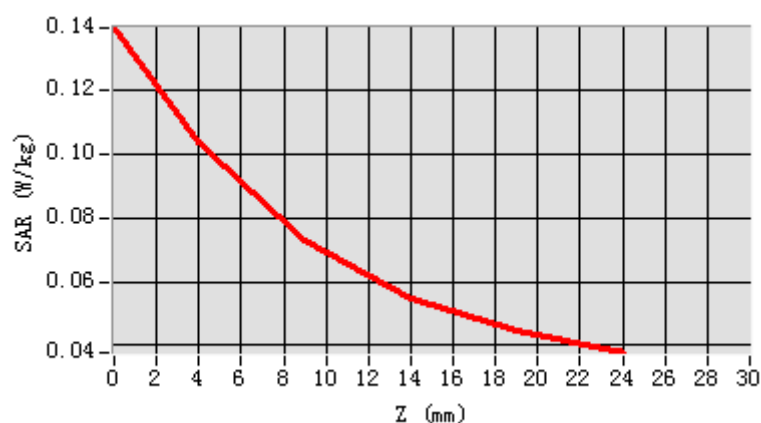
Maximum location: X=-2.00, Y=-1.00

SAR Peak: 0.14 W/kg

SAR 10g (W/Kg)	0.063410
SAR 1g (W/Kg)	0.100541



Z Axis Scan



System Performance Check (1800MHz)

Type: Validation measurement

Date of measurement: 03/08/2023

A. Experimental conditions.

E-Field Probe	SATIMO SN 32/22 EPG0383
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Dipole
Band	1800MHz
Channels	Middle
Signal	CW(Crest factor: 1.0)

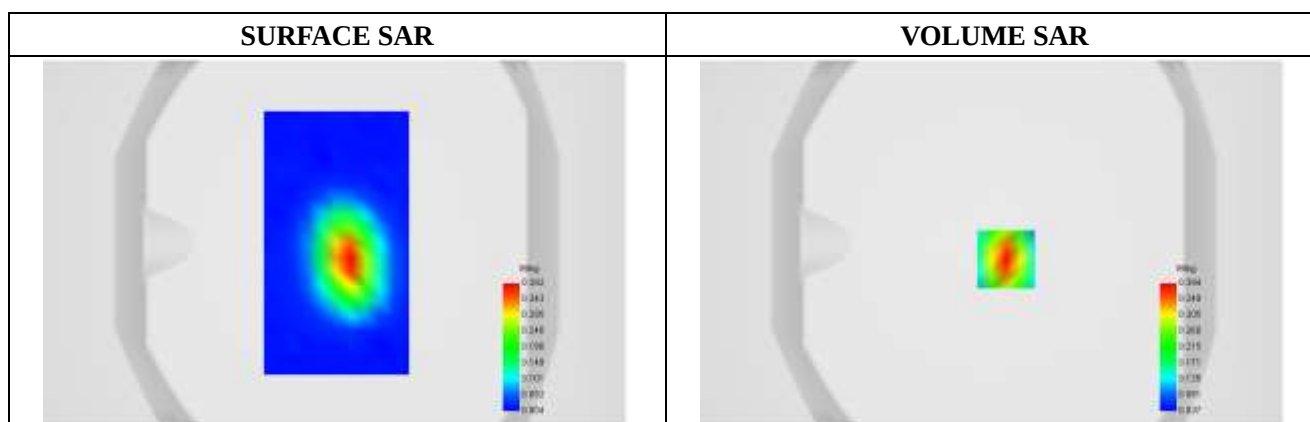
B. SAR Measurement Results

Frequency (MHz)	1800
Relative permittivity (real part)	40.21
Conductivity (S/m)	1.38
Variation (%)	-0.14

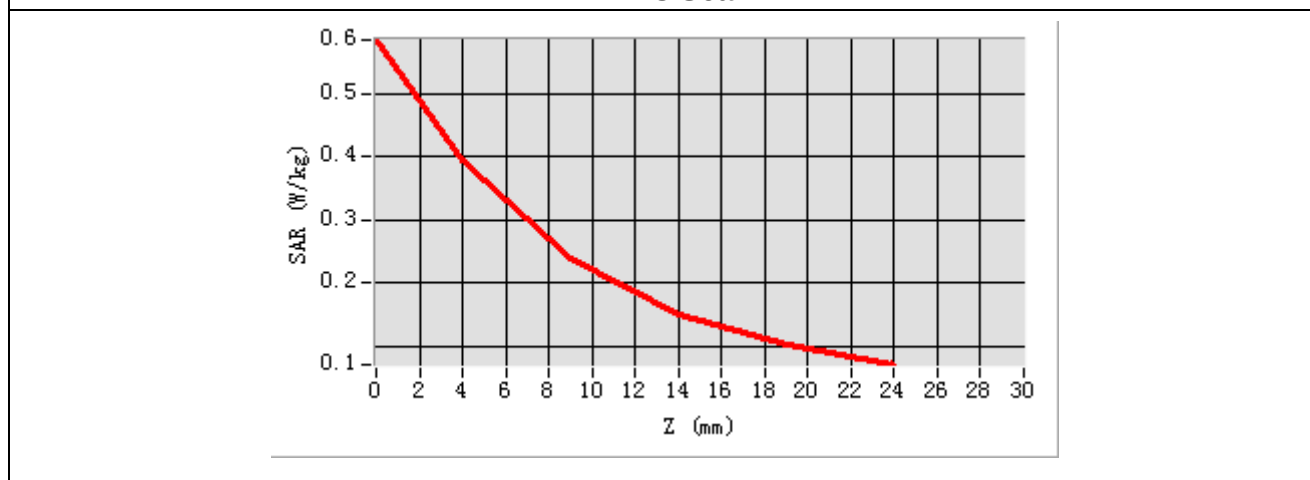
Maximum location: X=7.00, Y=-9.00

SAR Peak: 0.58 W/kg

SAR 10g (W/Kg)	0.207731
SAR 1g (W/Kg)	0.375022



Z Axis Scan



System Performance Check (1900MHz)

Type: Validation measurement

Date of measurement: 03/04/2023

A. Experimental conditions.

E-Field Probe	SATIMO SN 32/22 EPG0383
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Dipole
Band	1900MHz
Channels	Middle
Signal	CW(Crest factor: 1.0)

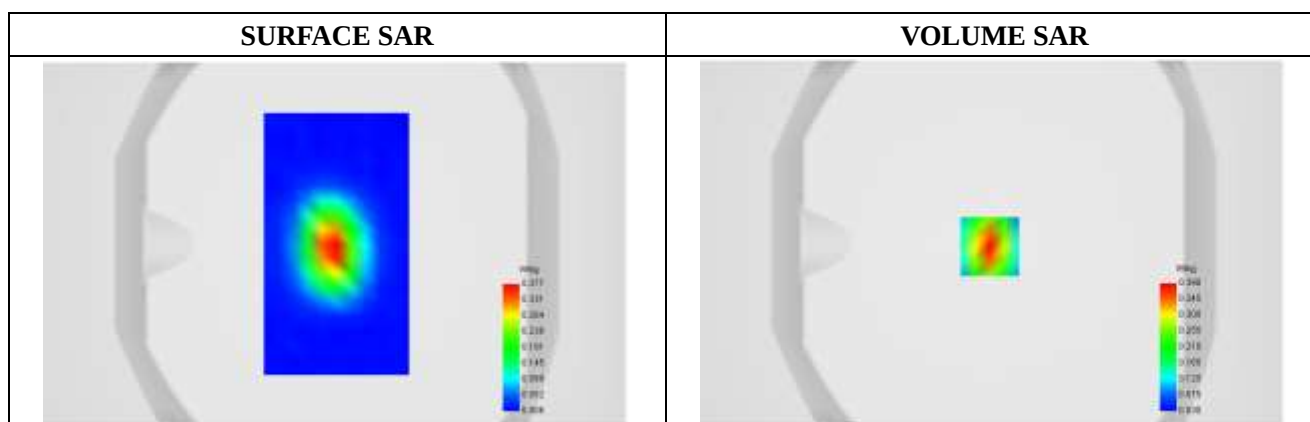
B. SAR Measurement Results

Frequency (MHz)	1900
Relative permittivity (real part)	41.04
Conductivity (S/m)	1.40
Variation (%)	0.22

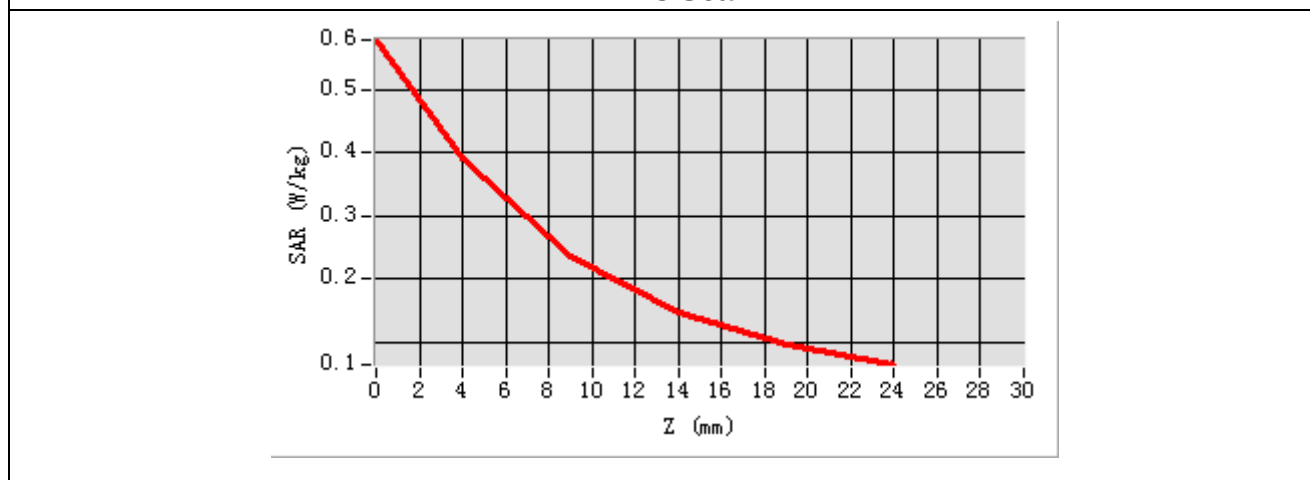
Maximum location: X=-2.00, Y=-2.00

SAR Peak: 0.62 W/kg

SAR 10g (W/Kg)	0.210579
SAR 1g (W/Kg)	0.395376



Z Axis Scan



System Performance Check (2450MHz)

Type: Validation measurement

Date of measurement: 03/07/2023

A. Experimental conditions.

E-Field Probe	SATIMO SN 32/22 EPGO383
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x7, dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Dipole
Band	2450MHz
Channels	Middle
Signal	CW(Crest factor: 1.0)

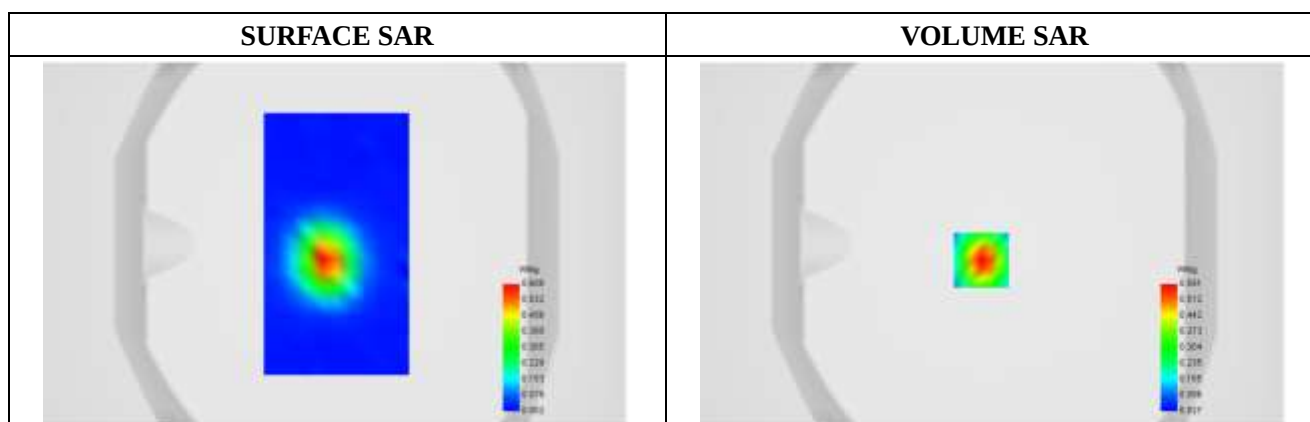
B. SAR Measurement Results

Frequency (MHz)	2450
Relative permittivity (real part)	39.89
Conductivity (S/m)	1.81
Variation (%)	0.42

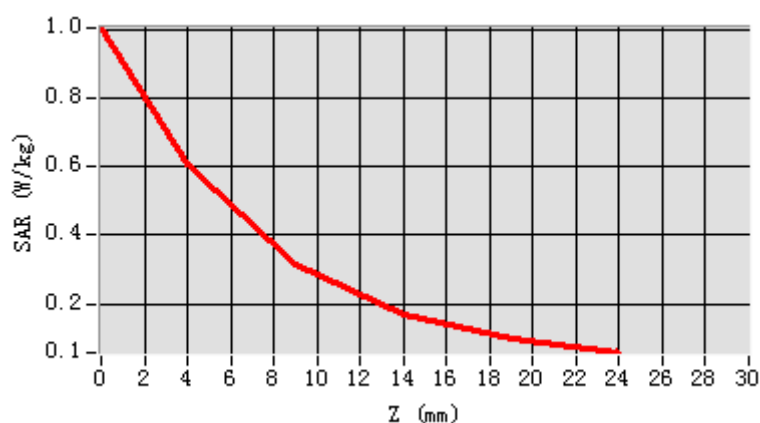
Maximum location: X=-7.00, Y=-8.00

SAR Peak: 1.01 W/kg

SAR 10g (W/Kg)	0.259389
SAR 1g (W/Kg)	0.570504



Z Axis Scan



System Performance Check (2600MHz)

Type: Validation measurement

Date of measurement: 03/15/2023

A. Experimental conditions.

<i>E-Field Probe</i>	SATIMO SN 32/22 EPG0383
<i>Area Scan</i>	dx=8mm dy=8mm
<i>Zoom Scan</i>	7x7x7,dx=5mm dy=5mm dz=5mm
<i>Phantom</i>	Validation plane
<i>Device Position</i>	Dipole
<i>Band</i>	2600MHz
<i>Channels</i>	Middle
<i>Signal</i>	CW(Crest factor: 1.0)

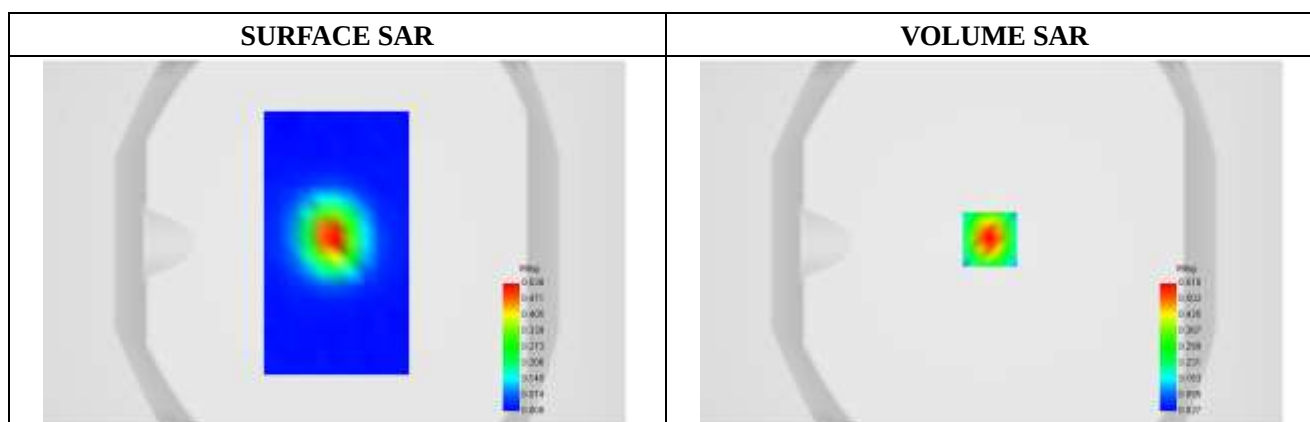
B. SAR Measurement Results

Frequency (MHz)	2600
Relative permittivity (real part)	38.83
Conductivity (S/m)	1.95
Variation (%)	-0.41

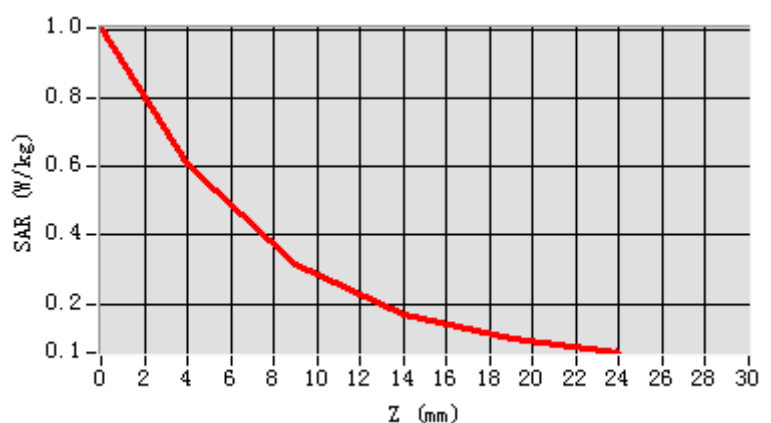
Maximum location: X=-2.00, Y=2.00

SAR Peak: 1.02 W/kg

SAR 10g (W/Kg)	0.250698
SAR 1g (W/Kg)	0.558162



Z Axis Scan



System Performance Check (5200MHz)

Type: Validation measurement

Date of measurement: 03/17/2023

A. Experimental conditions.

E-Field Probe	SATIMO 0523-EPGO-403
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Dipole
Band	5200MHz
Channels	Middle
Signal	CW(Crest factor: 1.0)

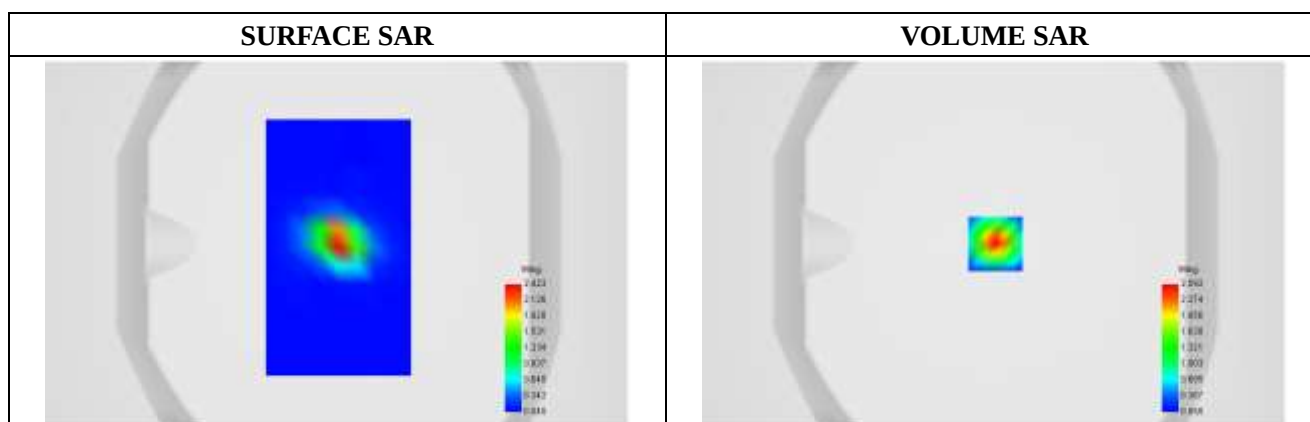
B. SAR Measurement Results

Frequency (MHz)	5200
Relative permittivity (real part)	36.03
Conductivity (S/m)	4.71
Variation (%)	0.25

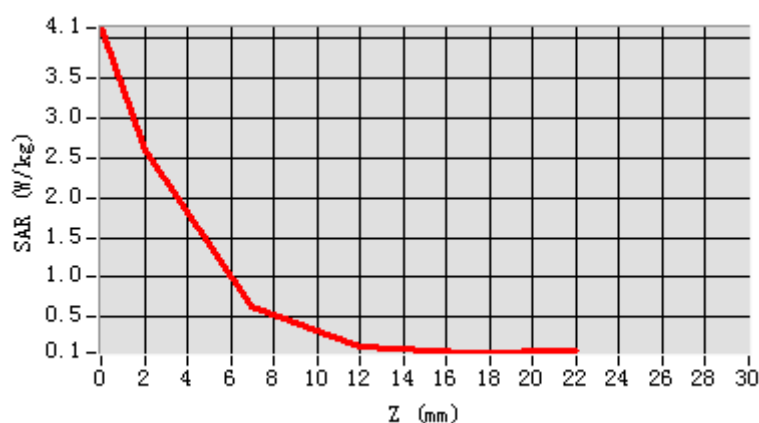
Maximum location: X=0.00, Y=0.00

SAR Peak: 4.27 W/kg

SAR 10g (W/Kg)	0.551223
SAR 1g (W/Kg)	1.468902



Z Axis Scan



System Performance Check (5400MHz)

Type: Validation measurement

Date of measurement: 03/17/2023

A. Experimental conditions.

E-Field Probe	SATIMO 0523-EPGO-403
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Dipole
Band	5400MHz
Channels	Middle
Signal	CW(Crest factor: 1.0)

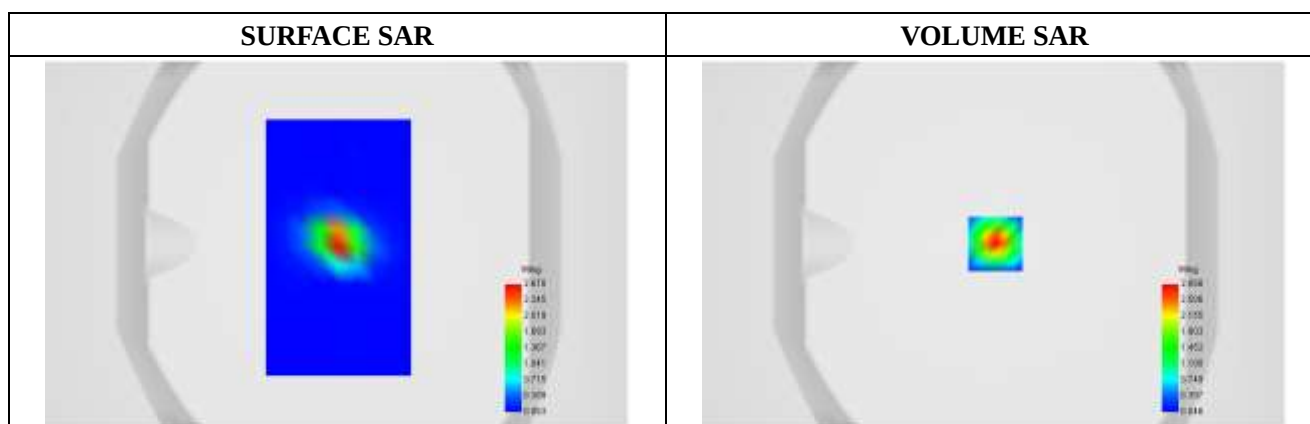
B. SAR Measurement Results

Frequency (MHz)	5400
Relative permittivity (real part)	35.40
Conductivity (S/m)	4.89
Variation (%)	-0.45

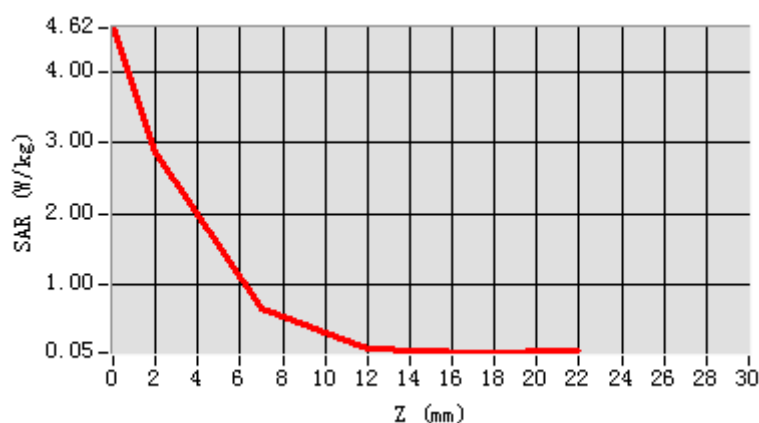
Maximum location: X=0.00, Y=0.00

SAR Peak: 4.79 W/kg

SAR 10g (W/Kg)	0.583956
SAR 1g (W/Kg)	1.609320



Z Axis Scan



System Performance Check (5600MHz)

Type: Validation measurement

Date of measurement: 03/18/2023

A. Experimental conditions.

E-Field Probe	SATIMO 0523-EPGO-403
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Dipole
Band	5600MHz
Channels	Middle
Signal	CW(Crest factor: 1.0)

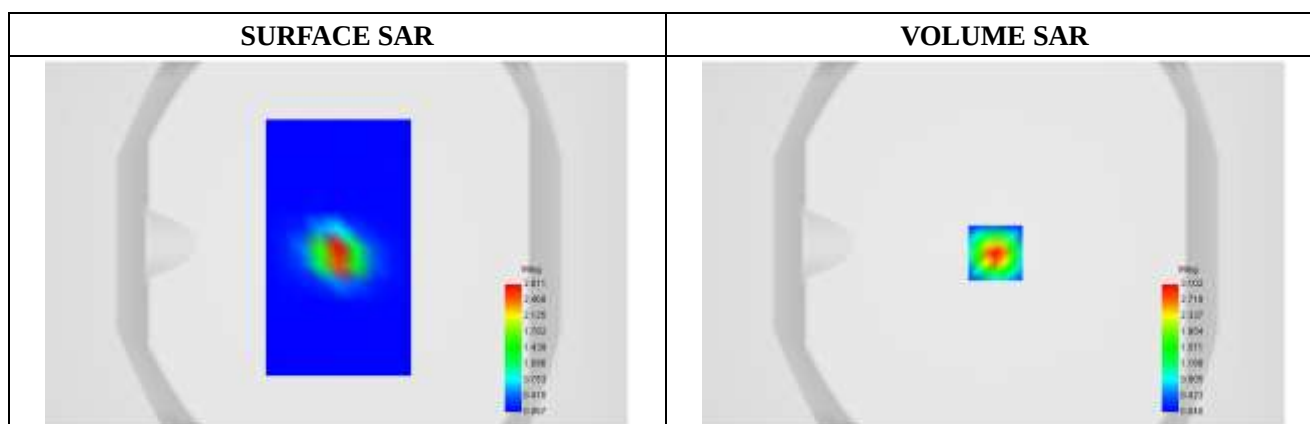
B. SAR Measurement Results

Frequency (MHz)	5600
Relative permittivity (real part)	35.02
Conductivity (S/m)	5.16
Variation (%)	-0.21

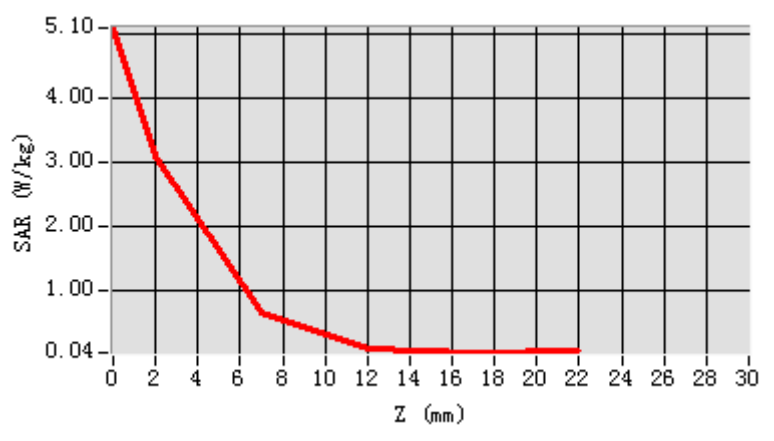
Maximum location: X=0.00, Y=-5.00

SAR Peak: 5.27 W/kg

SAR 10g (W/Kg)	0.626268
SAR 1g (W/Kg)	1.735259



Z Axis Scan



System Performance Check (5800MHz)

Type: Validation measurement

Date of measurement: 03/18/2023

A. Experimental conditions.

E-Field Probe	SATIMO 0523-EPGO-403
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Dipole
Band	5800MHz
Channels	Middle
Signal	CW(Crest factor: 1.0)

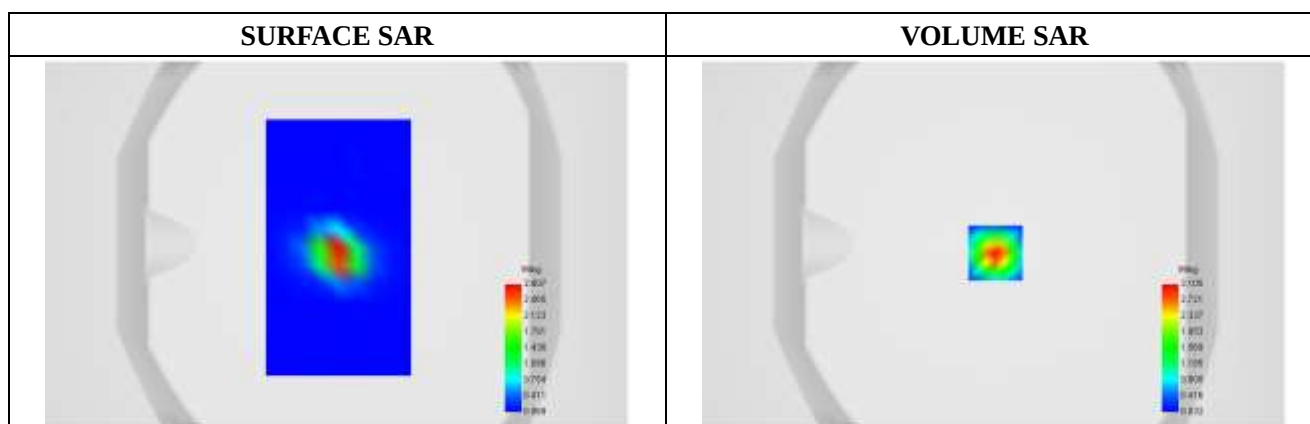
B. SAR Measurement Results

Frequency (MHz)	5800
Relative permittivity (real part)	34.67
Conductivity (S/m)	5.34
Variation (%)	-0.97

Maximum location: X=0.00, Y=-5.00

SAR Peak: 5.18 W/kg

SAR 10g (W/Kg)	0.617267
SAR 1g (W/Kg)	1.701029



Z Axis Scan

