# Appendix A: SAR System performance Check Plots

| Measurement | Liquid | Frequency | Test Date |
|---|---|---|---|
| System Check | Head | 750 | 2023/11/14 |
| System Check | Head | 835 | 2023/10/19 |
| System Check | Head | 835 | 2023/10/21 |
| System Check | Head | 835 | 2023/11/11 |
| System Check | Head | 835 | 2023/11/20 |
| System Check | Head | 1800 | 2023/10/28 |
| System Check | Head | 1800 | 2023/11/13 |
| System Check | Head | 1900 | 2023/10/23 |
| System Check | Head | 1900 | 2023/11/09 |
| System Check | Head | 2300 | 2023/11/07 |
| System Check | Head | 2450 | 2023/11/06 |
| System Check | Head | 2600 | 2023/10/25 |
| System Check | Head | 2600 | 2023/11/08 |
| System Check | Head | 3500 | 2023/10/27 |
| System Check | Head | 3700 | 2023/11/18 |
| System Check | Head | 3900 | 2023/11/18 |
| System Check | Head | 5200 | 2023/11/01 |
| System Check | Head | 5400 | 2023/11/01 |
| System Check | Head | 5600 | 2023/11/03 |
| System Check | Head | 5800 | 2023/11/03 |

# System Performance Check (750MHz)

Type: Validation measurement

Date of measurement: 11/14/2023

**A. Experimental conditions.**

| | |
|---|---|
| **E-Field Probe** | SATIMO 0523-EPGO-403 |
| **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) |

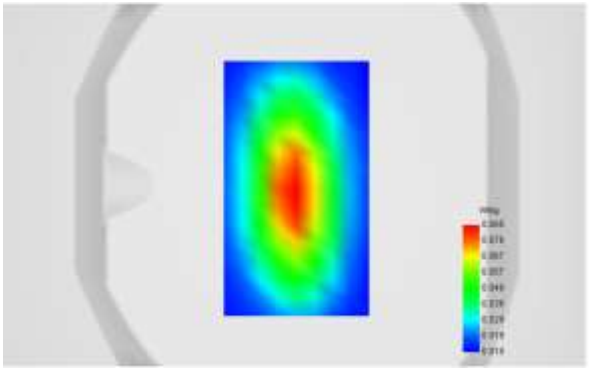
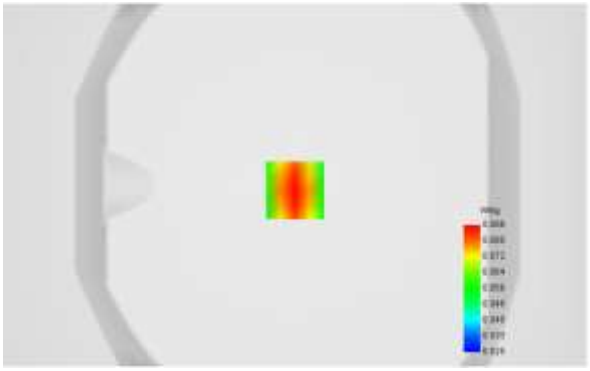
**B. SAR Measurement Results**

| | |
|---|---|
| **Frequency (MHz)** | 750 |
| **ConvF** | 2.12 |
| **Relative permittivity (real part)** | 42.31 |
| **Conductivity (S/m)** | 0.88 |
| **Variation (%)** | 0.29 |

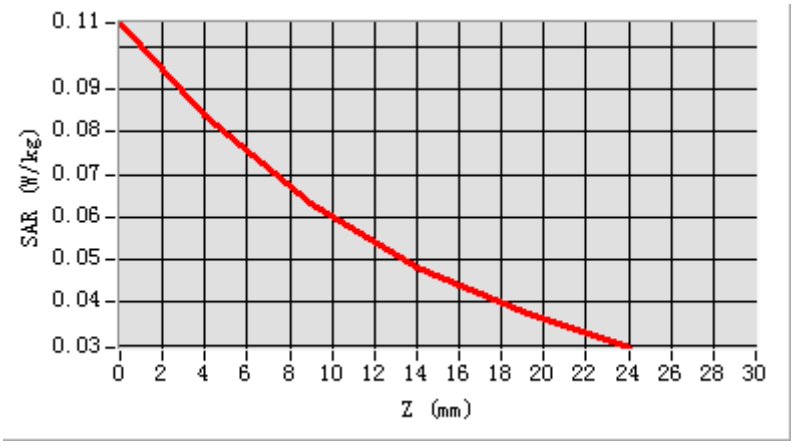
**Maximum location: X=1.00, Y=-3.00**

**SAR Peak: 0.11 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.056653 |
| **SAR 1g (W/Kg)** | 0.086020 |

| **SURFACE SAR** | **VOLUME SAR** |
|---|---|
|  |  |

**Z Axis Scan**



# System Performance Check (835MHz)

Type: Validation measurement

Date of measurement: 10/19/2023

**A. Experimental conditions.**

| | |
|---|---|
| **E-Field Probe** | SATIMO 0523-EPGO-403 |
| **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) |

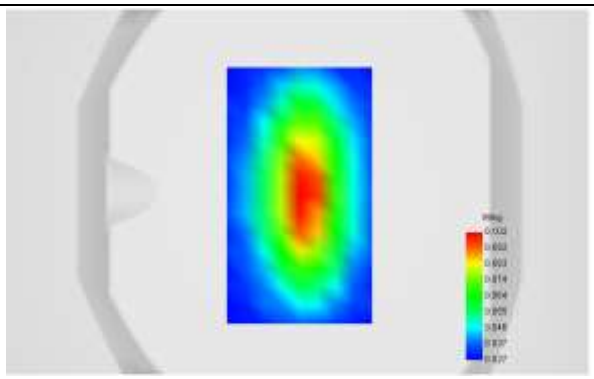
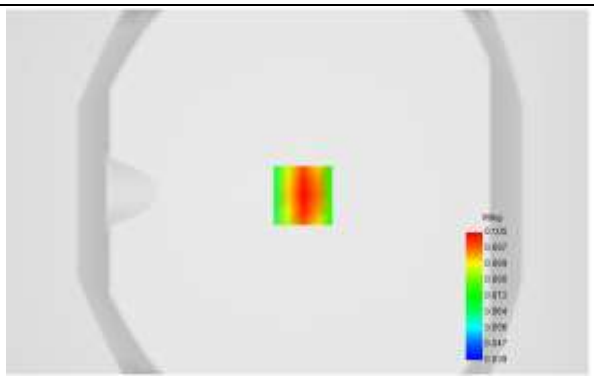
**B. SAR Measurement Results**

| | |
|---|---|
| **Frequency (MHz)** | 835 |
| **ConvF** | 1.99 |
| **Relative permittivity (real part)** | 41.35 |
| **Conductivity (S/m)** | 0.92 |
| **Variation (%)** | 0.20 |

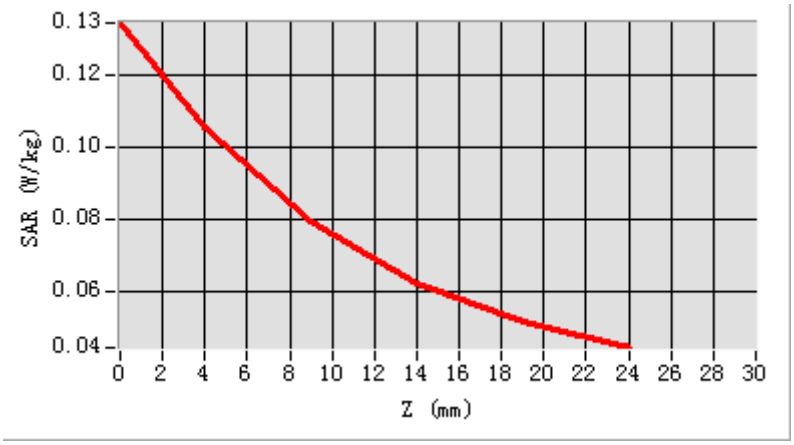
**Maximum location: X=2.00, Y=-2.00**

**SAR Peak: 0.13 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.067976 |
| **SAR 1g (W/Kg)** | 0.103314 |

| **SURFACE SAR** | **VOLUME SAR** |
|---|---|
|  |  |

**Z Axis Scan**



# System Performance Check (835MHz)

Type: Validation measurement

Date of measurement: 10/21/2023

**A. Experimental conditions.**

| | |
|---|---|
| **E-Field Probe** | SATIMO 0523-EPGO-403 |
| **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) |

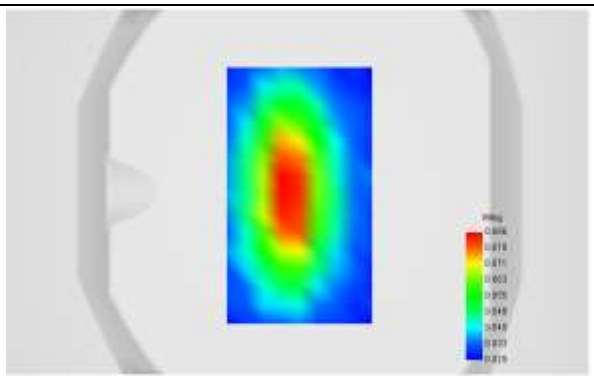
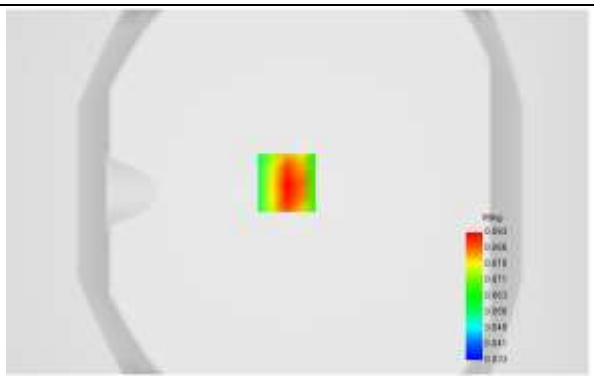
**B. SAR Measurement Results**

| | |
|---|---|
| **Frequency (MHz)** | 835 |
| **Relative permittivity (real part)** | 41.92 |
| **Conductivity (S/m)** | 0.91 |
| **Variation (%)** | 0.40 |
| **ConvF** | 1.99 |

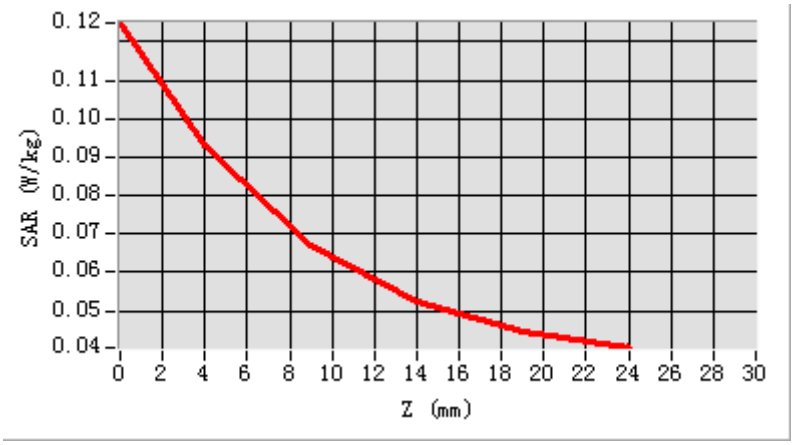
**Maximum location: X=-7.00, Y=5.00**

**SAR Peak: 0.12 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.064775 |
| **SAR 1g (W/Kg)** | 0.095868 |

| **SURFACE SAR** | **VOLUME SAR** |
|---|---|
|  |  |

**Z Axis Scan**



# System Performance Check (835MHz)

Type: Validation measurement

Date of measurement: 11/11/2023

**A. Experimental conditions.**

| | |
|---|---|
| **E-Field Probe** | SATIMO 0523-EPGO-403 |
| **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) |

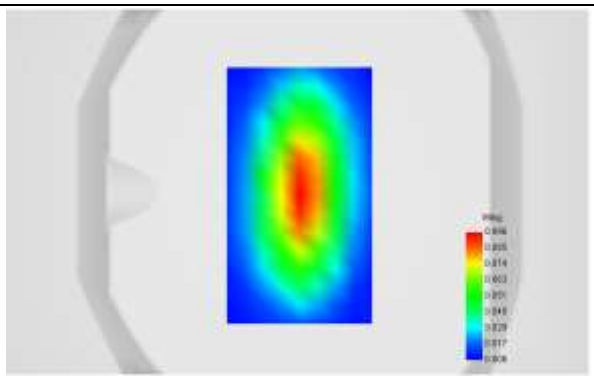
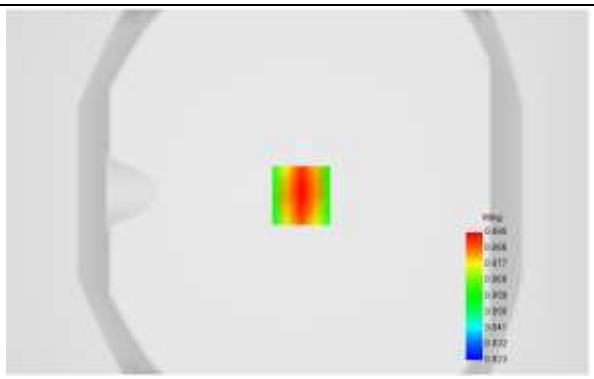
**B. SAR Measurement Results**

| | |
|---|---|
| **Frequency (MHz)** | 835 |
| **Relative permittivity (real part)** | 41.67 |
| **Conductivity (S/m)** | 0.91 |
| **Variation (%)** | -0.41 |
| **ConvF** | 1.99 |

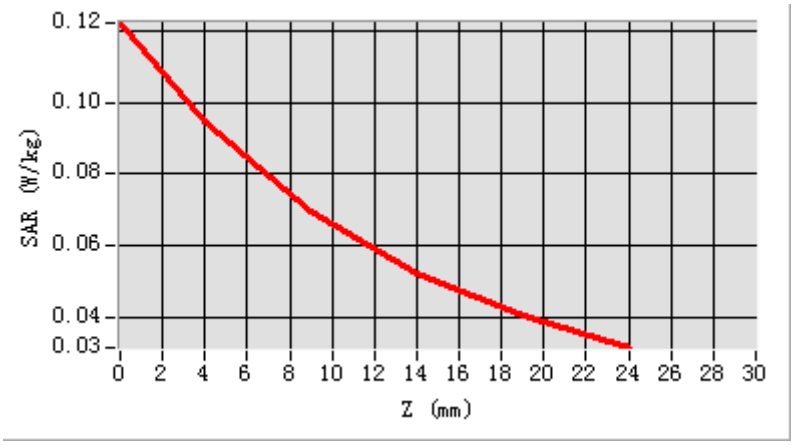
**Maximum location: X=1.00, Y=-2.00**

**SAR Peak: 0.12 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.062764 |
| **SAR 1g (W/Kg)** | 0.094061 |

| **SURFACE SAR** | **VOLUME SAR** |
|---|---|
|  |  |

**Z Axis Scan**



# System Performance Check (835MHz)

Type: Validation measurement

Date of measurement: 11/20/2023

**A. Experimental conditions.**

| | |
|---|---|
| **E-Field Probe** | SATIMO 0523-EPGO-403 |
| **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) |

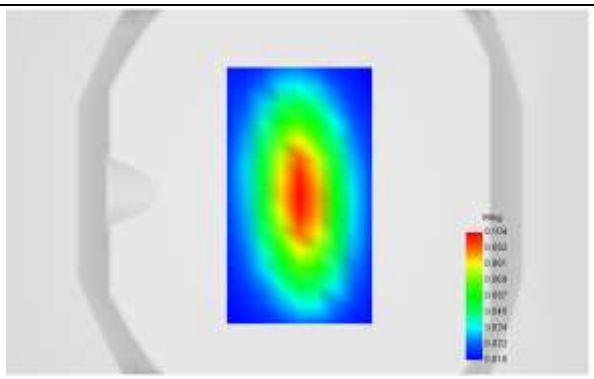
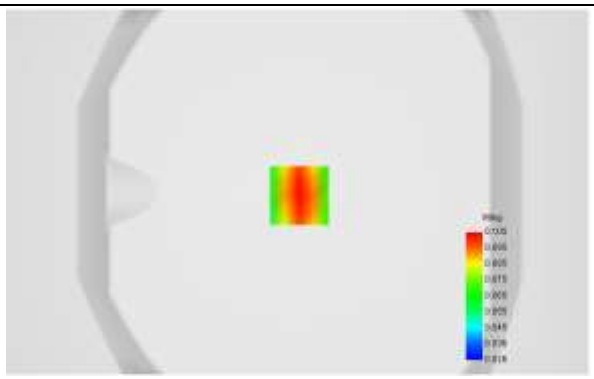
**B. SAR Measurement Results**

| | |
|---|---|
| **Frequency (MHz)** | 835 |
| **Relative permittivity (real part)** | 42.35 |
| **Conductivity (S/m)** | 0.93 |
| **Variation (%)** | -0.09 |
| **ConvF** | 1.99 |

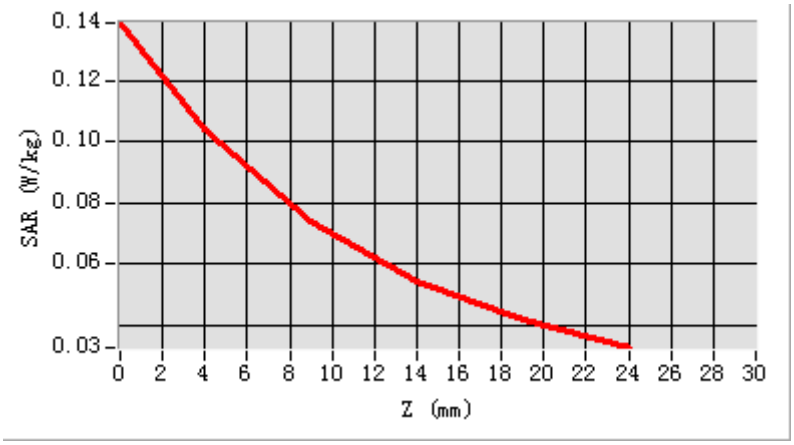
**Maximum location: X=0.00, Y=-2.00**

**SAR Peak: 0.14 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.065765 |
| **SAR 1g (W/Kg)** | 0.101853 |

| **SURFACE SAR** | **VOLUME SAR** |
|---|---|
|  |  |

**Z Axis Scan**



# System Performance Check (1800MHz)

Type: Validation measurement

Date of measurement: 10/28/2023

**A. Experimental conditions.**

| | |
|---|---|
| **E-Field Probe** | SATIMO 0523-EPGO-403 |
| **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) |

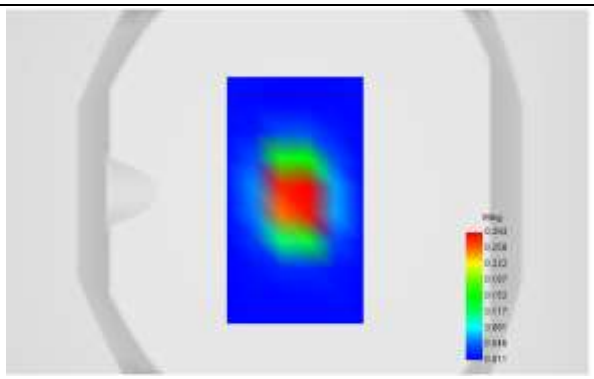
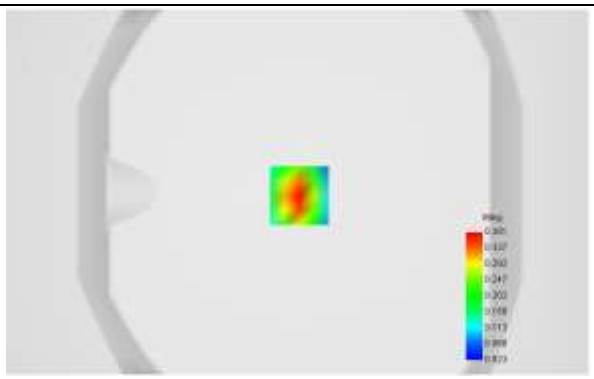
**B. SAR Measurement Results**

| | |
|---|---|
| **Frequency (MHz)** | 1800 |
| **Relative permittivity (real part)** | 41.12 |
| **Conductivity (S/m)** | 1.41 |
| **Variation (%)** | 0.10 |
| **ConvF** | 2.08 |

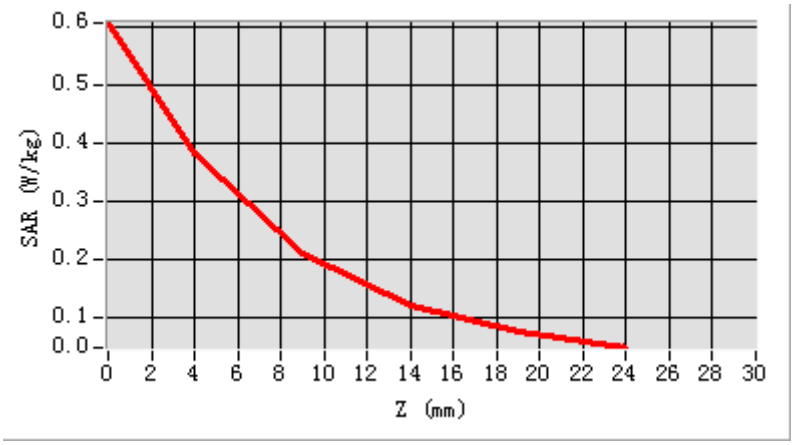
**Maximum location: X=0.00, Y=-2.00**

**SAR Peak: 0.61 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.189402 |
| **SAR 1g (W/Kg)** | 0.360452 |

| **SURFACE SAR** | **VOLUME SAR** |
|---|---|
|  |  |

**Z Axis Scan**



# System Performance Check (1800MHz)

Type: Validation measurement

Date of measurement: 11/13/2023

**A. Experimental conditions.**

| | |
|---|---|
| **E-Field Probe** | SATIMO 0523-EPGO-403 |
| **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) |

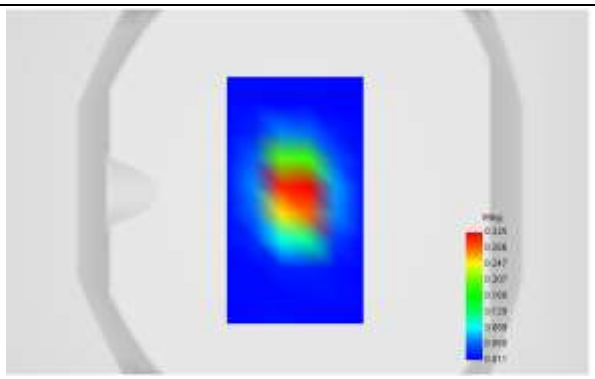
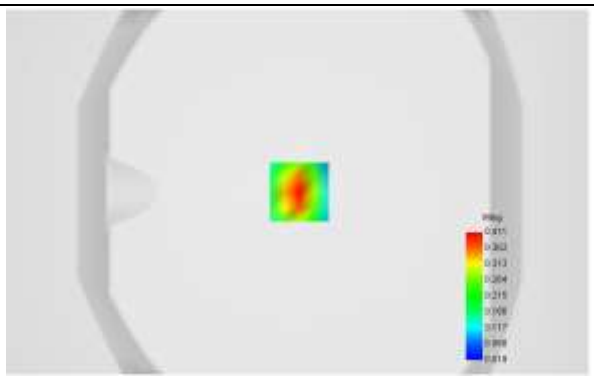
**B. SAR Measurement Results**

| | |
|---|---|
| **Frequency (MHz)** | 1800 |
| **Relative permittivity (real part)** | 40.59 |
| **Conductivity (S/m)** | 1.39 |
| **Variation (%)** | 0.62 |
| **ConvF** | 2.08 |

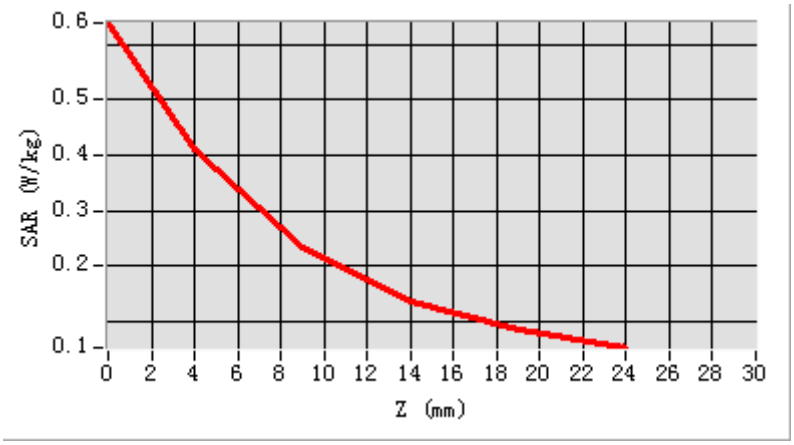
**Maximum location: X=0.00, Y=0.00**

**SAR Peak: 0.61 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.204072 |
| **SAR 1g (W/Kg)** | 0.383523 |

| **SURFACE SAR** | **VOLUME SAR** |
|---|---|
|  |  |

**Z Axis Scan**



# System Performance Check (1900MHz)

Type: Validation measurement

Date of measurement: 10/23/2023

**A. Experimental conditions.**

| | |
|---|---|
| **E-Field Probe** | SATIMO 0523-EPGO-403 |
| **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) |

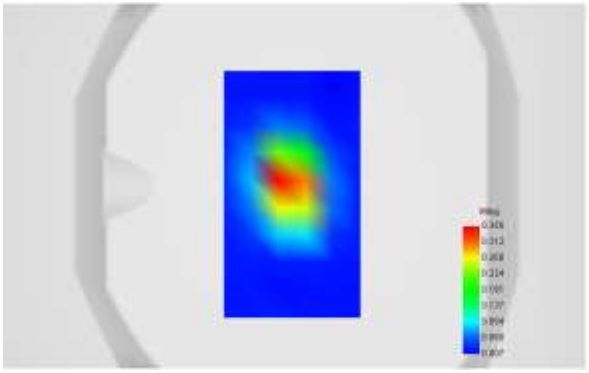
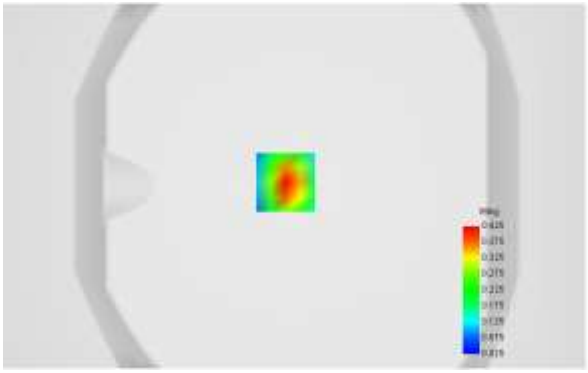
**B. SAR Measurement Results**

| | |
|---|---|
| **Frequency (MHz)** | 1900 |
| **Relative permittivity (real part)** | 40.09 |
| **Conductivity (S/m)** | 1.42 |
| **Variation (%)** | 0.10 |

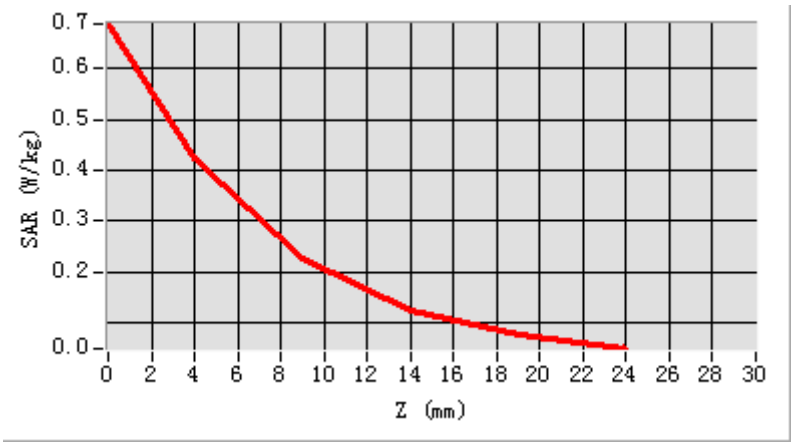
**Maximum location: X=-6.00, Y=2.00**

**SAR Peak: 0.68 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.203166 |
| **SAR 1g (W/Kg)** | 0.408275 |

| **SURFACE SAR** | **VOLUME SAR** |
|---|---|
|  |  |

**Z Axis Scan**



# System Performance Check (1900MHz)

Type: Validation measurement

Date of measurement: 11/09/2023

**A. Experimental conditions.**

| | |
|---|---|
| **E-Field Probe** | SATIMO 0523-EPGO-403 |
| **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) |

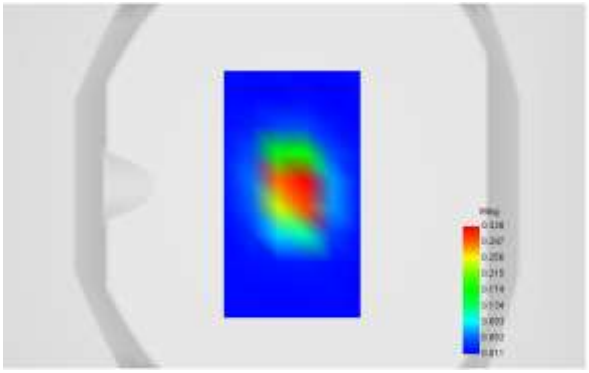
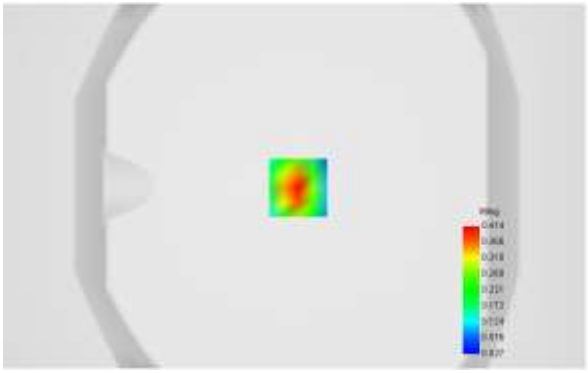
**B. SAR Measurement Results**

| | |
|---|---|
| **Frequency (MHz)** | 1900 |
| **Relative permittivity (real part)** | 40.08 |
| **Conductivity (S/m)** | 1.42 |
| **Variation (%)** | 0.15 |

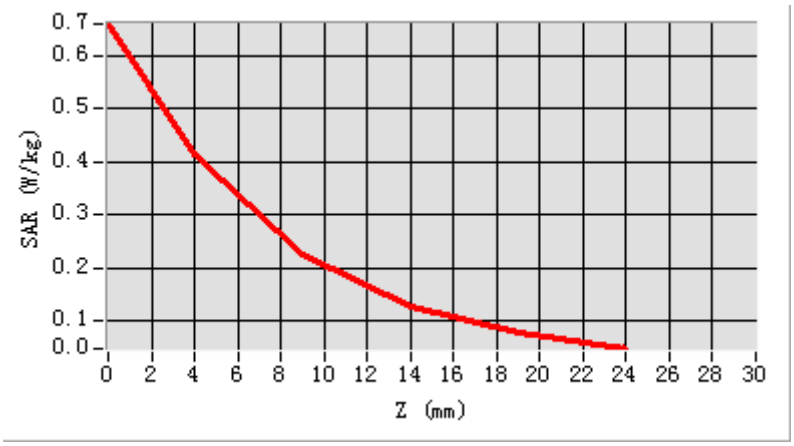
**Maximum location: X=1.00, Y=-1.00**

**SAR Peak: 0.65 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.206905 |
| **SAR 1g (W/Kg)** | 0.399583 |

| **SURFACE SAR** | **VOLUME SAR** |
|---|---|
|  |  |

**Z Axis Scan**



# System Performance Check (2300MHz)

Type: Validation measurement

Date of measurement: 11/07/2023

**A. Experimental conditions.**

| | |
|---|---|
| **E-Field Probe** | SATIMO 0523-EPGO-403 |
| **Area Scan** | dx=8mm dy=8mm |
| **Zoom Scan** | 7x7x7,dx=5mm dy=5mm dz=5mm |
| **Phantom** | Validation plane |
| **Device Position** | Dipole |
| **Band** | 2300MHz |
| **Channels** | Middle |
| **Signal** | CW(Crest factor: 1.0) |

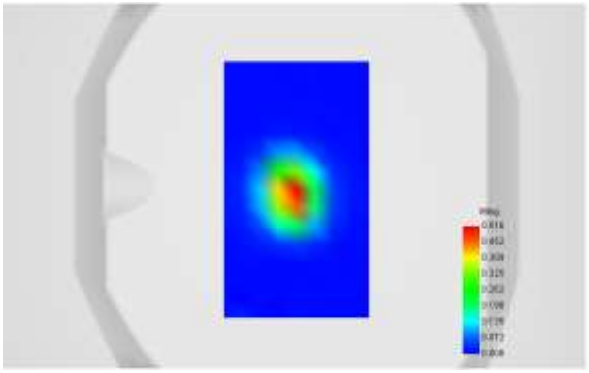
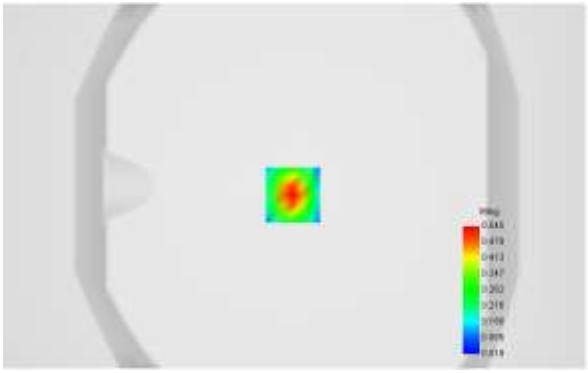
**B. SAR Measurement Results**

| | |
|---|---|
| **Frequency (MHz)** | 2300 |
| **Relative permittivity (real part)** | 39.92 |
| **Conductivity (S/m)** | 1.66 |
| **Variation (%)** | -0.19 |

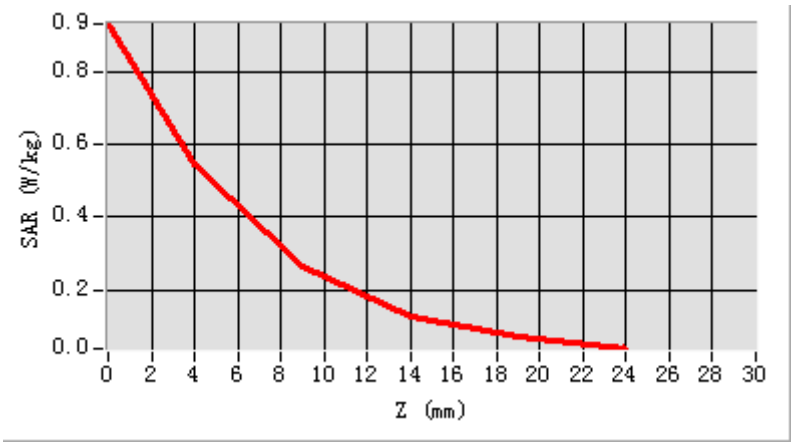
**Maximum location: X=-2.00, Y=-4.00**

**SAR Peak: 0.93 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.235311 |
| **SAR 1g (W/Kg)** | 0.506247 |

| **SURFACE SAR** | **VOLUME SAR** |
|---|---|
|  |  |

**Z Axis Scan**



# System Performance Check (2450MHz)

Type: Validation measurement

Date of measurement: 11/06/2023

**A. Experimental conditions.**

| | |
|---|---|
| **E-Field Probe** | SATIMO 0523-EPGO-403 |
| **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) |

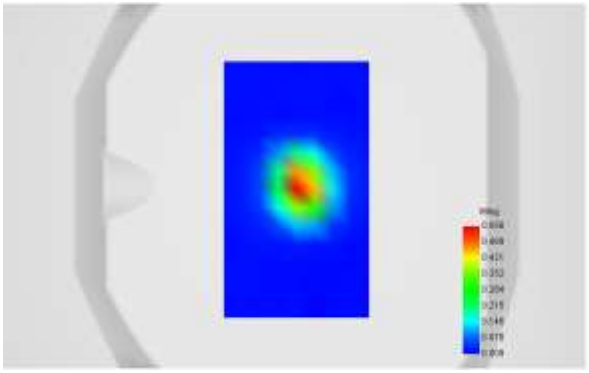
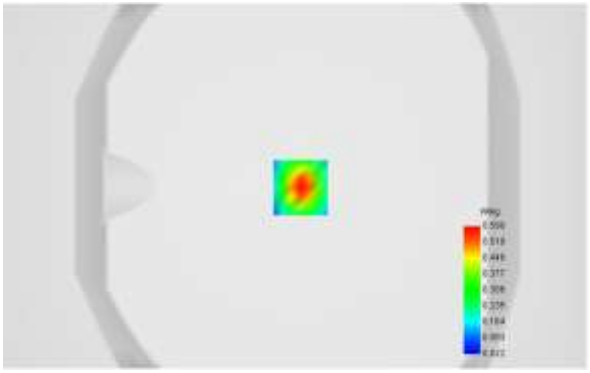
**B. SAR Measurement Results**

| | |
|---|---|
| **Frequency (MHz)** | 2450 |
| **Relative permittivity (real part)** | 38.79 |
| **Conductivity (S/m)** | 1.78 |
| **Variation (%)** | 0.48 |

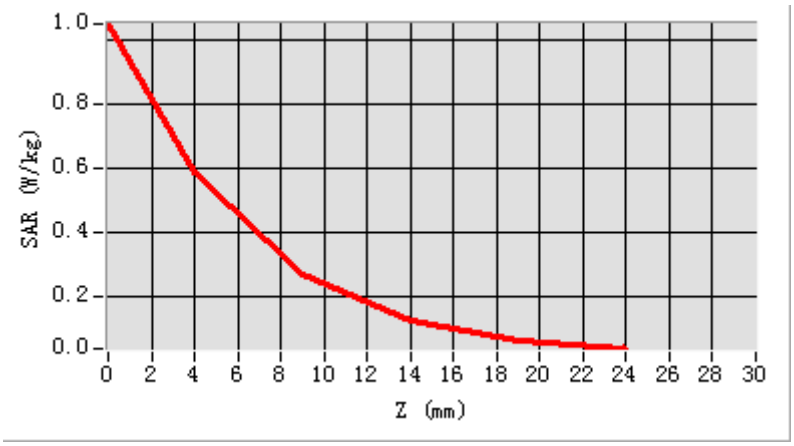
**Maximum location: X=2.00, Y=-1.00**

**SAR Peak: 1.03 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.245895 |
| **SAR 1g (W/Kg)** | 0.527040 |

| **SURFACE SAR** | **VOLUME SAR** |
|---|---|
|  |  |

**Z Axis Scan**



# System Performance Check (2600MHz)

Type: Validation measurement

Date of measurement: 10/25/2023

**A. Experimental conditions.**

| | |
|---|---|
| **E-Field Probe** | SATIMO 0523-EPGO-403 |
| **Area Scan** | dx=8mm dy=8mm |
| **Zoom Scan** | 7x7x7,dx=5mm dy=5mm dz=5mm |
| **Phantom** | Validation plane |
| **Device Position** | Dipole |
| **Band** | 2600MHz |
| **Channels** | Middle |
| **Signal** | CW(Crest factor: 1.0) |

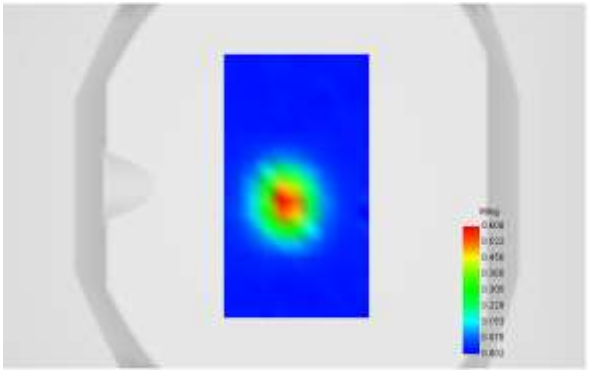
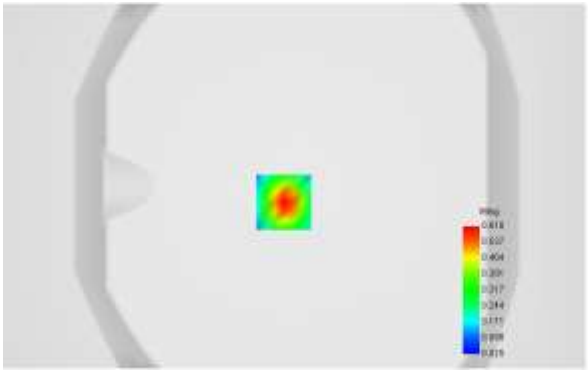
**B. SAR Measurement Results**

| | |
|---|---|
| **Frequency (MHz)** | 2600 |
| **Relative permittivity (real part)** | 39.49 |
| **Conductivity (S/m)** | 1.98 |
| **Variation (%)** | -0.23 |

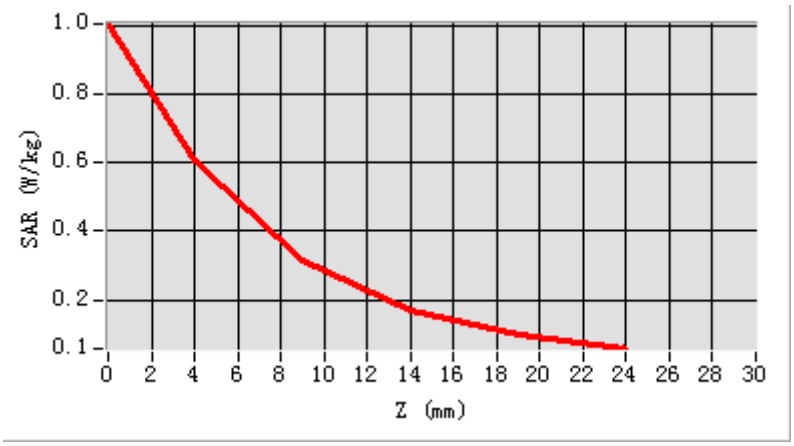
**Maximum location: X=-7.00, Y=-9.00**

**SAR Peak: 1.14 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.261930 |
| **SAR 1g (W/Kg)** | 0.551104 |

| **SURFACE SAR** | **VOLUME SAR** |
|---|---|
|  |  |

**Z Axis Scan**



# System Performance Check (2600MHz)

Type: Validation measurement

Date of measurement: 11/08/2023

**A. Experimental conditions.**

| | |
|---|---|
| **E-Field Probe** | SATIMO 0523-EPGO-403 |
| **Area Scan** | dx=8mm dy=8mm |
| **Zoom Scan** | 7x7x7,dx=5mm dy=5mm dz=5mm |
| **Phantom** | Validation plane |
| **Device Position** | Dipole |
| **Band** | 2600MHz |
| **Channels** | Middle |
| **Signal** | CW(Crest factor: 1.0) |

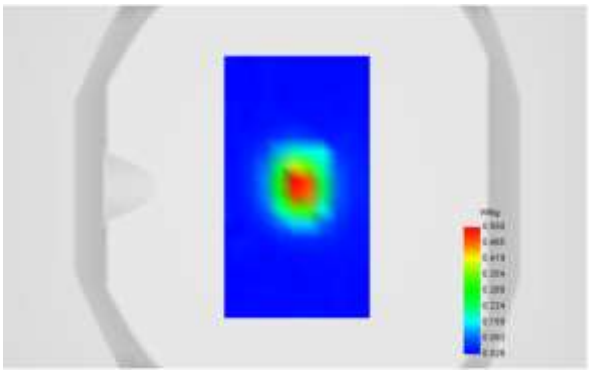
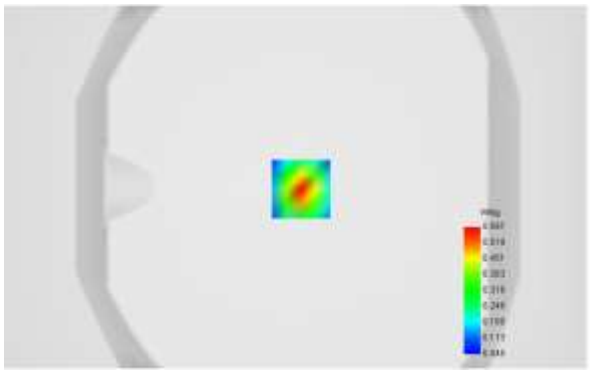
**B. SAR Measurement Results**

| | |
|---|---|
| **Frequency (MHz)** | 2600 |
| **Relative permittivity (real part)** | 39.49 |
| **Conductivity (S/m)** | 1.97 |
| **Variation (%)** | 0.45 |

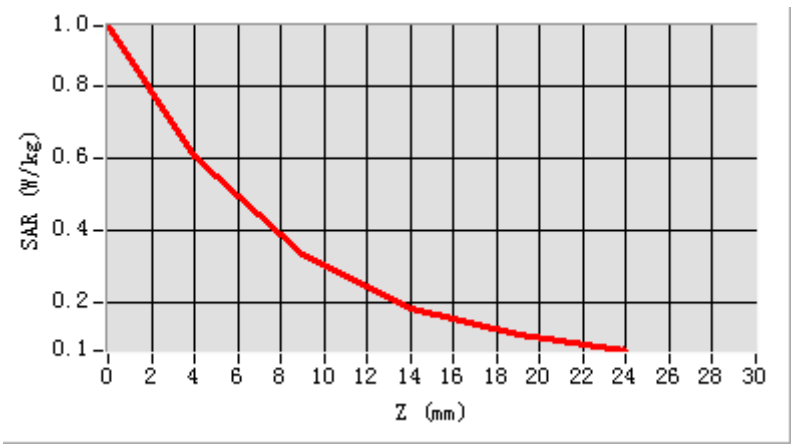
**Maximum location: X=1.00, Y=0.00**

**SAR Peak: 0.96 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.251940 |
| **SAR 1g (W/Kg)** | 0.549061 |

| **SURFACE SAR** | **VOLUME SAR** |
|---|---|
|  |  |

**Z Axis Scan**




# System Performance Check (3500MHz)

Type: Validation measurement

Date of measurement: 10/27/2023

**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** | 3500MHz |
| **Channels** | Middle |
| **Signal** | CW(Crest factor: 1.0) |

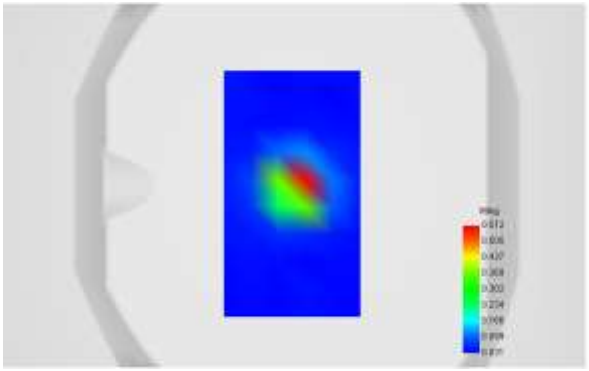
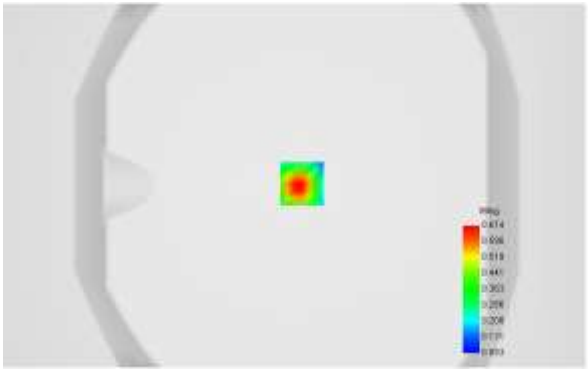
**B. SAR Measurement Results**

| | |
|---|---|
| **Frequency (MHz)** | 3500 |
| **Relative permittivity (real part)** | 38.65 |
| **Conductivity (S/m)** | 2.96 |
| **Variation (%)** | 0.09 |

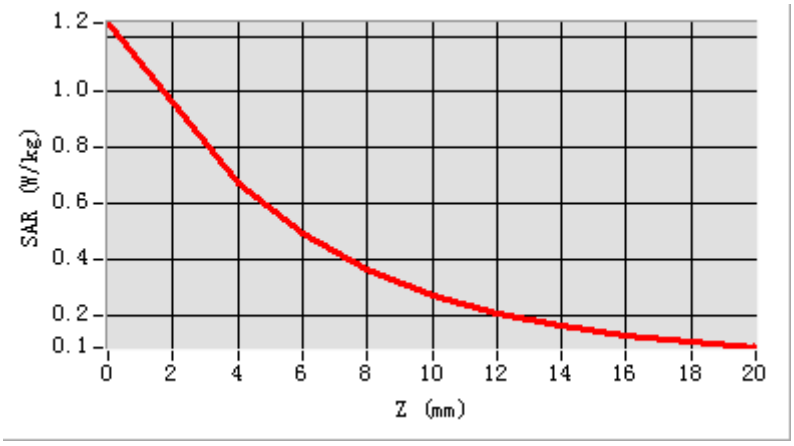
**Maximum location: X=2.00, Y=1.00**

**SAR Peak: 1.25 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.273451 |
| **SAR 1g (W/Kg)** | 0.663995 |

| **SURFACE SAR** | **VOLUME SAR** |
|---|---|
|  |  |

**Z Axis Scan**




## System Performance Check (3700MHz)

Type: Validation measurement

Date of measurement: 11/18/2023

**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** | 3700MHz |
| **Channels** | Middle |
| **Signal** | CW(Crest factor: 1.0) |

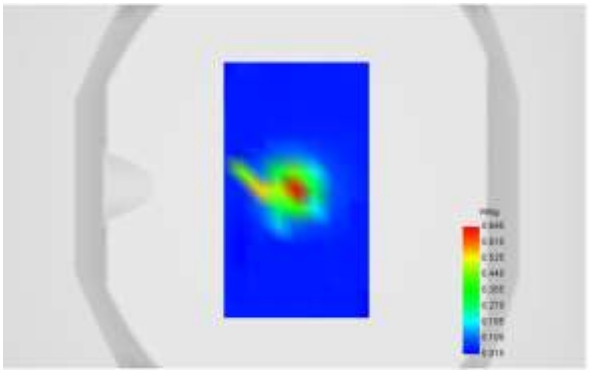
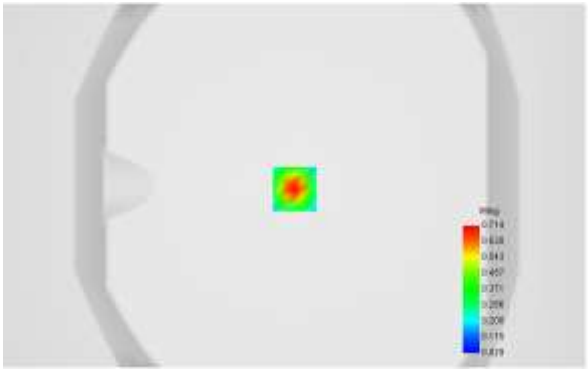
**B. SAR Measurement Results**

| | |
|---|---|
| **Frequency (MHz)** | 3700 |
| **Relative permittivity (real part)** | 37.69 |
| **Conductivity (S/m)** | 3.07 |
| **Variation (%)** | -0.12 |

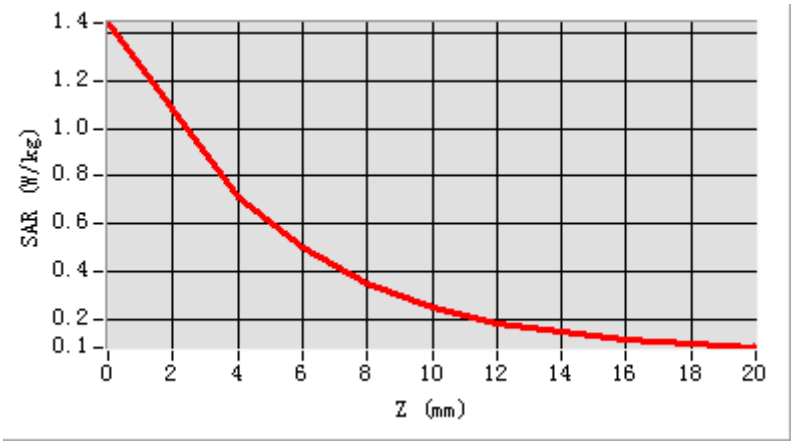
**Maximum location: X=1.00, Y=-2.00**

**SAR Peak: 1.43 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.264860 |
| **SAR 1g (W/Kg)** | 0.638607 |

| **SURFACE SAR** | **VOLUME SAR** |
|---|---|
|  |  |

**Z Axis Scan**




## System Performance Check (3900MHz)

Type: Validation measurement

Date of measurement: 11/18/2023

**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** | 3900MHz |
| **Channels** | Middle |
| **Signal** | CW(Crest factor: 1.0) |

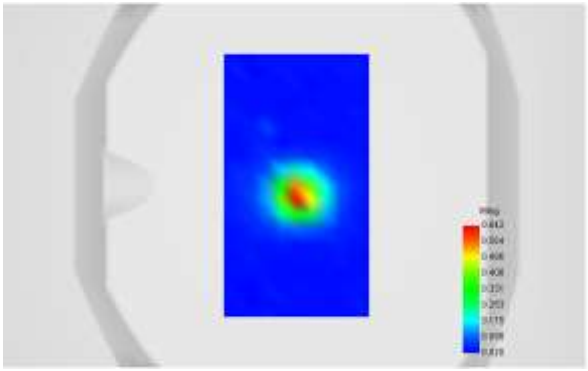
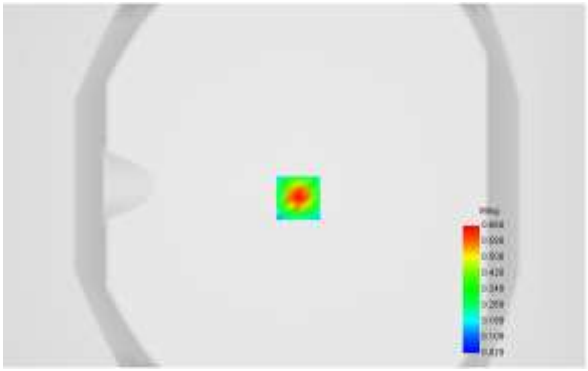
**B. SAR Measurement Results**

| | |
|---|---|
| **Frequency (MHz)** | 3900 |
| **Relative permittivity (real part)** | 37.41 |
| **Conductivity (S/m)** | 3.24 |
| **Variation (%)** | 0.03 |

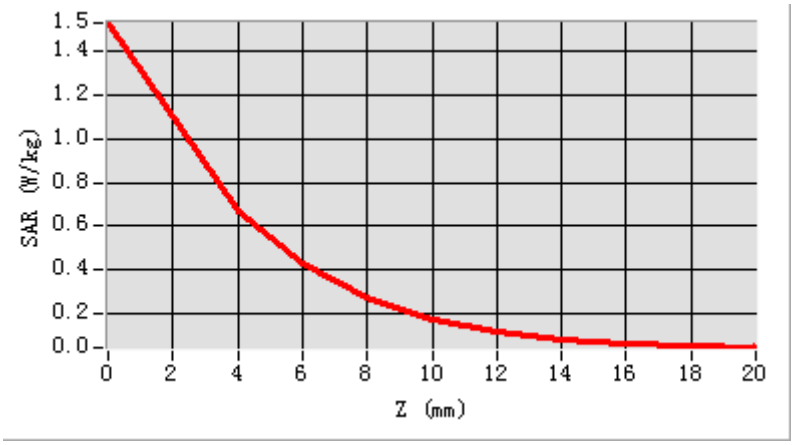
**Maximum location: X=1.00, Y=-8.00**

**SAR Peak: 1.52 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.2391511 |
| **SAR 1g (W/Kg)** | 0.658250 |

| **SURFACE SAR** | **VOLUME SAR** |
|---|---|
|  |  |

**Z Axis Scan**




## System Performance Check (5200MHz)

Type: Validation measurement

Date of measurement: 11/01/2023

**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) |

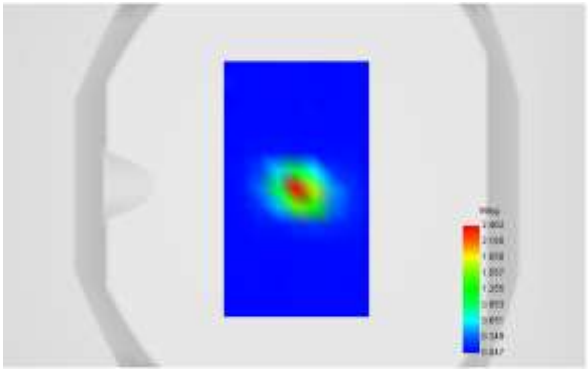
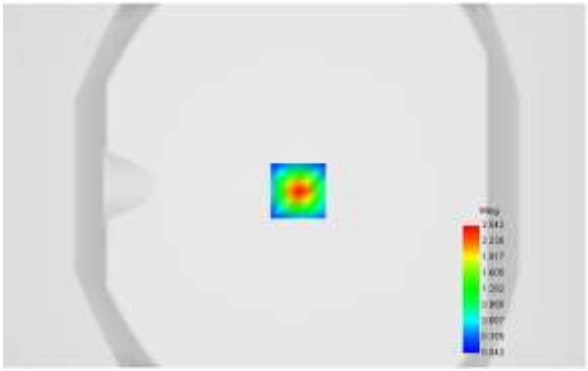
**B. SAR Measurement Results**

| | |
|---|---|
| **Frequency (MHz)** | 5200 |
| **Relative permittivity (real part)** | 35.44 |
| **Conductivity (S/m)** | 4.53 |
| **Variation (%)** | 0.17 |

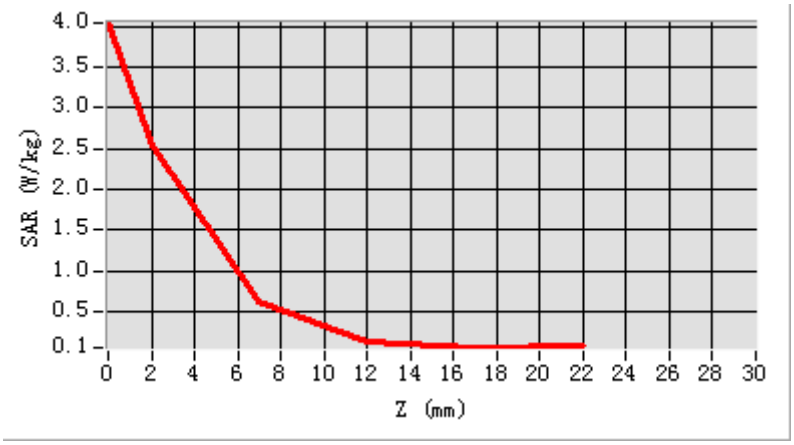
**Maximum location: X=1.00, Y=-3.00**

**SAR Peak: 4.06 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.528191 |
| **SAR 1g (W/Kg)** | 1.473507 |

| **SURFACE SAR** | **VOLUME SAR** |
|---|---|
|  |  |

**Z Axis Scan**




## System Performance Check (5400MHz)

Type: Validation measurement

Date of measurement: 11/01/2023

**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) |

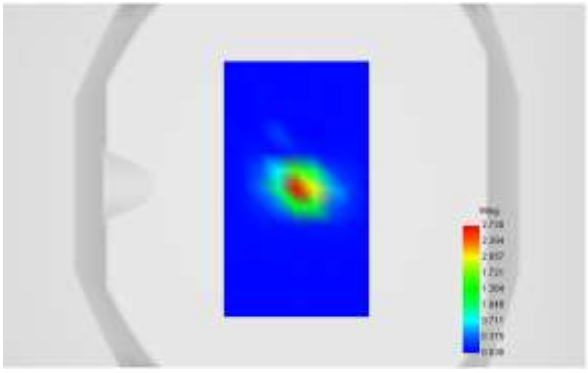
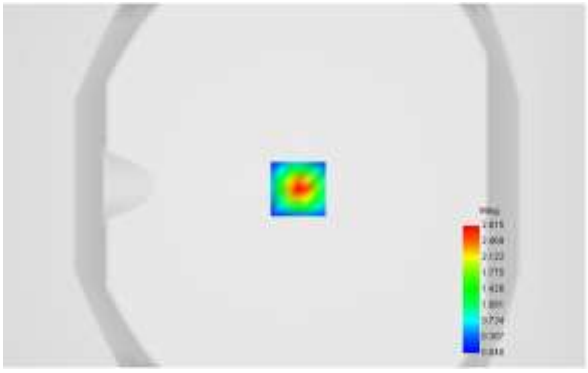
**B. SAR Measurement Results**

| | |
|---|---|
| **Frequency (MHz)** | 5400 |
| **Relative permittivity (real part)** | 35.21 |
| **Conductivity (S/m)** | 4.85 |
| **Variation (%)** | -0.31 |

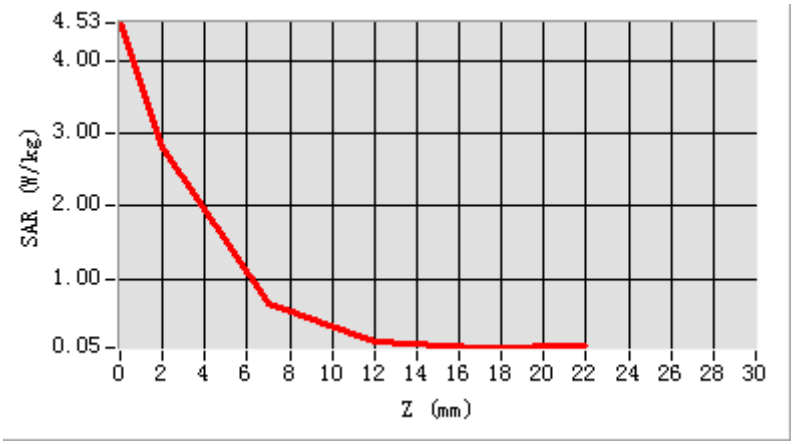
**Maximum location: X=1.00, Y=-2.00**

**SAR Peak: 4.68 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.558405 |
| **SAR 1g (W/Kg)** | 1.547562 |

| **SURFACE SAR** | **VOLUME SAR** |
|---|---|
|  |  |

**Z Axis Scan**




## System Performance Check (5600MHz)

Type: Validation measurement

Date of measurement: 11/03/2023

**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) |

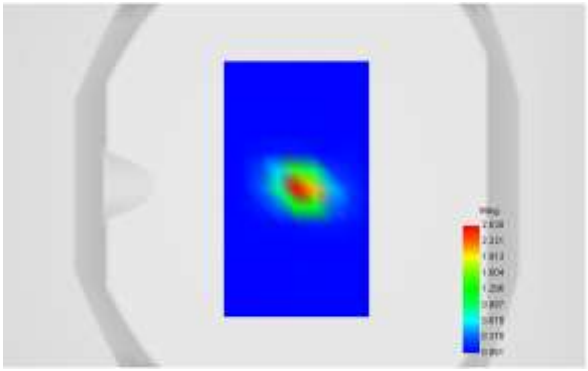
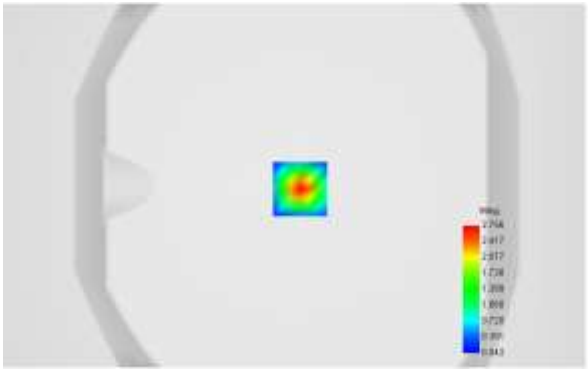
**B. SAR Measurement Results**

| | |
|---|---|
| **Frequency (MHz)** | 5600 |
| **Relative permittivity (real part)** | 35.98 |
| **Conductivity (S/m)** | 4.94 |
| **Variation (%)** | -0.20 |

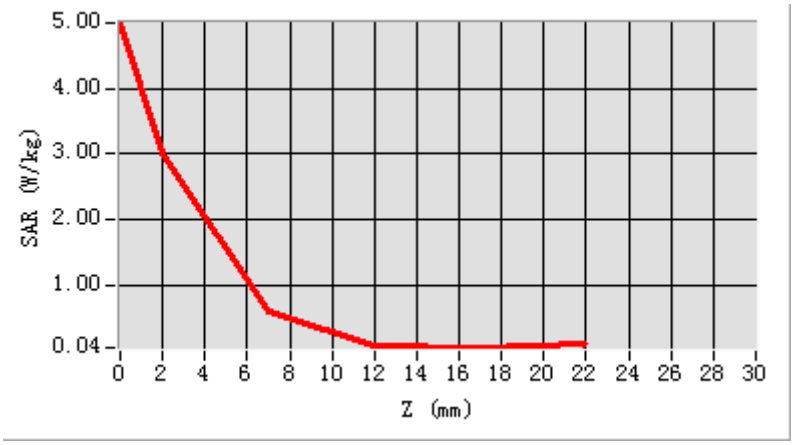
**Maximum location: X=2.00, Y=-2.00**

**SAR Peak: 4.96 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.561387 |
| **SAR 1g (W/Kg)** | 1.572284 |

| **SURFACE SAR** | **VOLUME SAR** |
|---|---|
|  |  |

**Z Axis Scan**




## System Performance Check (5800MHz)

Type: Validation measurement

Date of measurement: 11/03/2023

**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) |

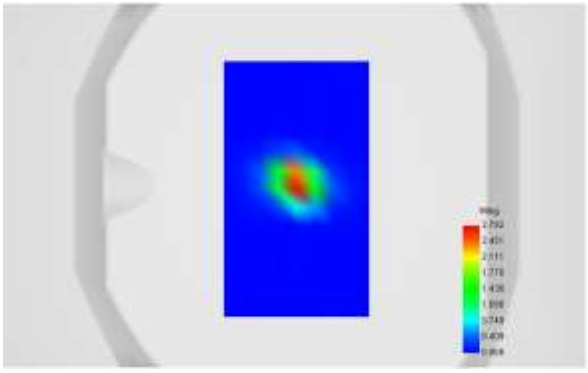
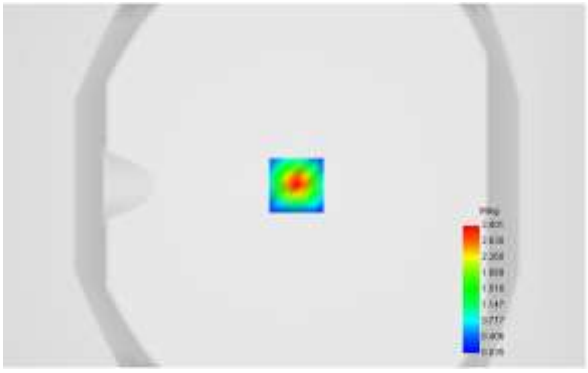
**B. SAR Measurement Results**

| | |
|---|---|
| **Frequency (MHz)** | 5800 |
| **Relative permittivity (real part)** | 35.71 |
| **Conductivity (S/m)** | 5.23 |
| **Variation (%)** | -0.14 |

**Maximum location: X=0.00, Y=0.00**

**SAR Peak: 5.16 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.585168 |
| **SAR 1g (W/Kg)** | 1.697860 |

| **SURFACE SAR** | **VOLUME SAR** |
|---|---|
|  |  |

**Z Axis Scan**