

Appendix A: SAR System performance Check Plots

| Measurement | Liquid | Frequency | Test Date |
|--------------|--------|-----------|------------|
| System Check | Head | 750 | 2019-07-03 |
| System Check | Body | 750 | 2019-07-03 |
| System Check | Head | 835 | 2019-07-04 |
| System Check | Body | 835 | 2019-07-04 |
| System Check | Head | 1800 | 2019-07-05 |
| System Check | Body | 1800 | 2019-07-05 |
| System Check | Head | 1900 | 2019-07-08 |
| System Check | Body | 1900 | 2019-07-08 |
| System Check | Head | 2450 | 2019-07-09 |
| System Check | Body | 2450 | 2019-07-09 |
| System Check | Head | 2600 | 2019-07-10 |
| System Check | Body | 2600 | 2019-07-10 |
| System Check | Head | 5200 | 2019-07-11 |
| System Check | Body | 5200 | 2019-07-11 |
| System Check | Head | 5400 | 2019-07-12 |
| System Check | Body | 5400 | 2019-07-12 |
| System Check | Head | 5600 | 2019-07-15 |
| System Check | Body | 5600 | 2019-07-15 |
| System Check | Head | 5800 | 2019-07-16 |
| System Check | Body | 5800 | 2019-07-16 |

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: 07/03/2019

Measurement duration: 22 minutes 05 seconds

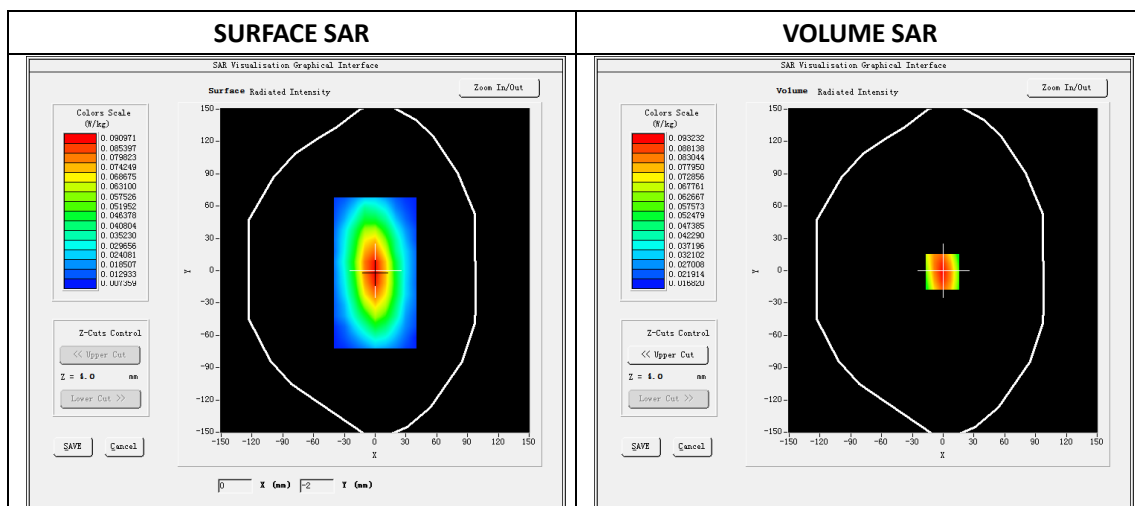
A. Experimental conditions.

| | |
|-----------------|----------------------------|
| 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

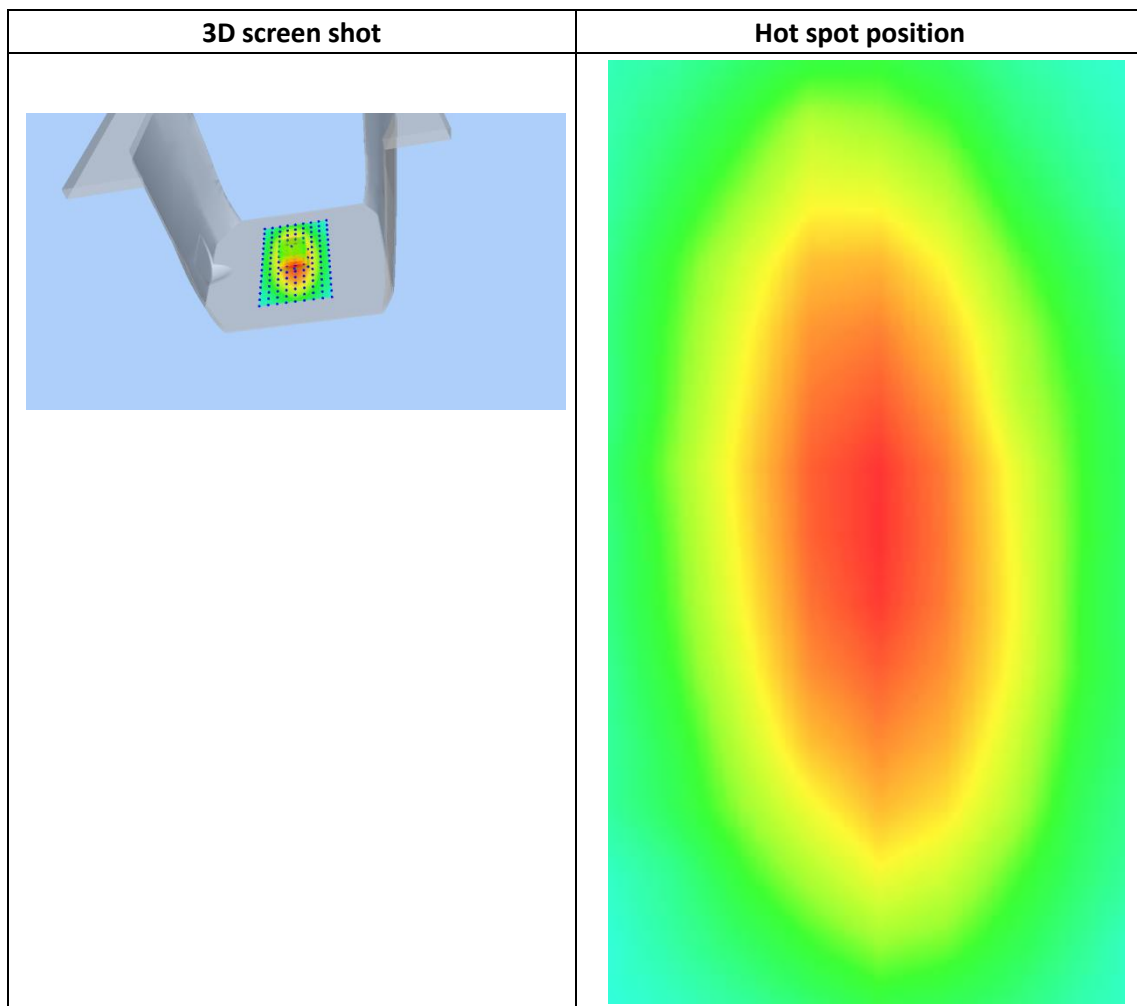
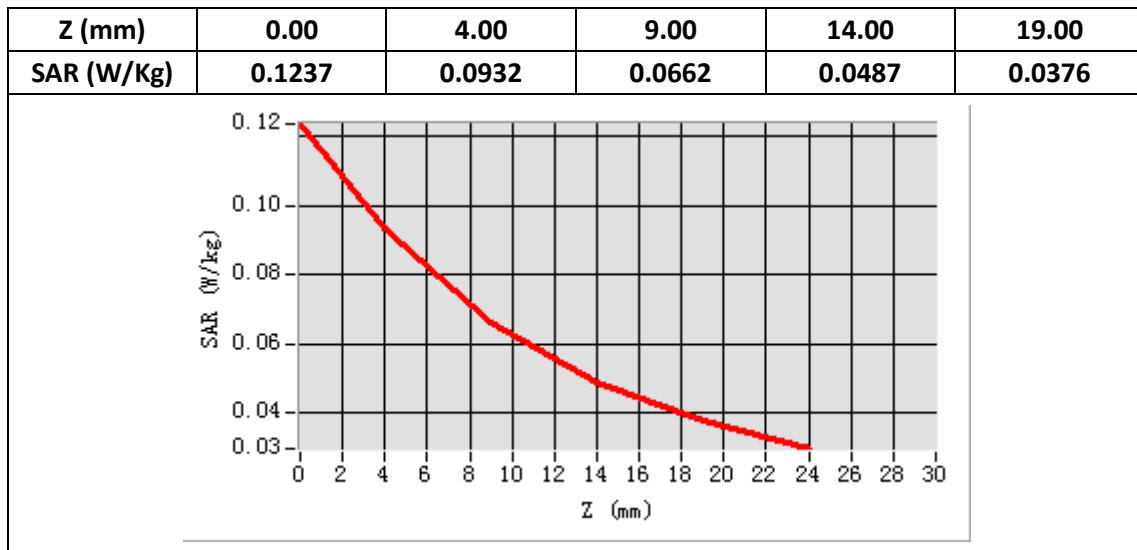
| | |
|-----------------------------------|-------------------------|
| E-Field Probe | SATIMO SN_27/15_EPG0261 |
| Frequency (MHz) | 750 |
| Relative permittivity (real part) | 41.62 |
| Relative permittivity | 22.08 |
| Conductivity (S/m) | 0.92 |
| Power drift (%) | -1.76 |
| Ambient Temperature: | 22.2°C |
| Liquid Temperature: | 22.6°C |
| ConvF: | 1.87 |
| Crest factor: | 1:1 |



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

SAR Peak: 0.12 W/kg

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.061567 |
| SAR 1g (W/Kg) | 0.089577 |



System Performance Check (Body, 750MHz)

Type: Phone measurement

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

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

Date of measurement: 07/03/2019

Measurement duration: 22 minutes 09 seconds

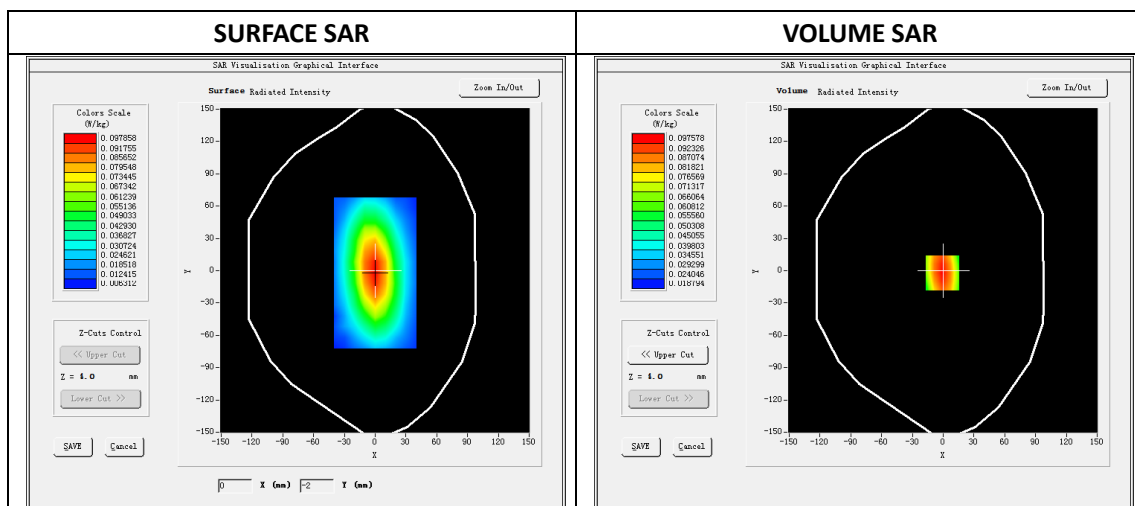
A. Experimental conditions.

| | |
|-----------------|----------------------------|
| 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

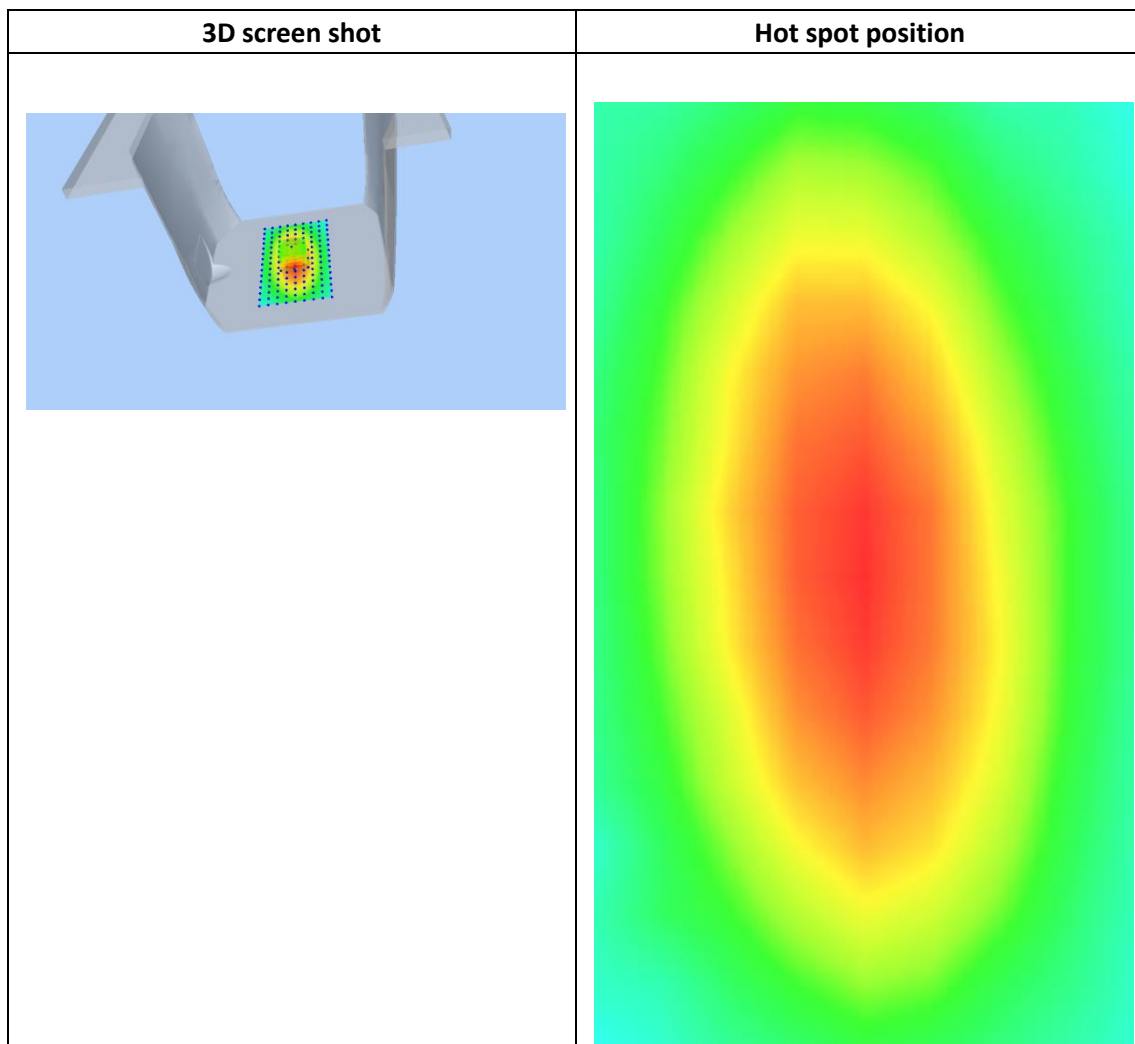
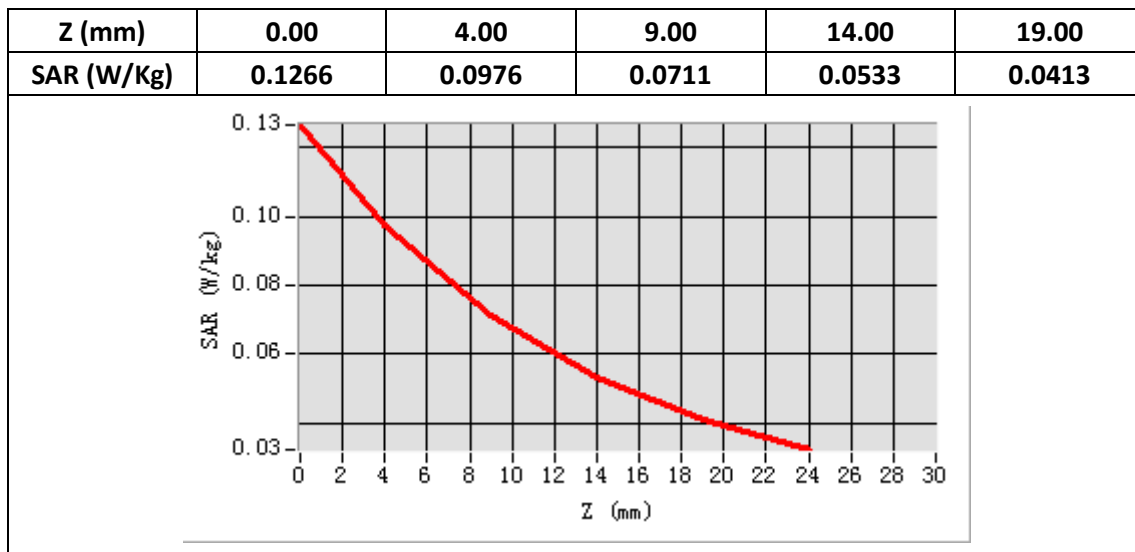
| | |
|-----------------------------------|-------------------------|
| E-Field Probe | SATIMO SN_27/15_EPG0261 |
| Frequency (MHz) | 750 |
| Relative permittivity (real part) | 55.49 |
| Relative permittivity | 23.04 |
| Conductivity (S/m) | 0.96 |
| Power drift (%) | -2.02 |
| Ambient Temperature: | 22.2°C |
| Liquid Temperature: | 22.6°C |
| ConvF: | 1.93 |
| Crest factor: | 1:1 |



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

SAR Peak: 0.13 W/kg

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.065536 |
| SAR 1g (W/Kg) | 0.093573 |



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: 07/04/2019

Measurement duration: 22 minutes 07 seconds

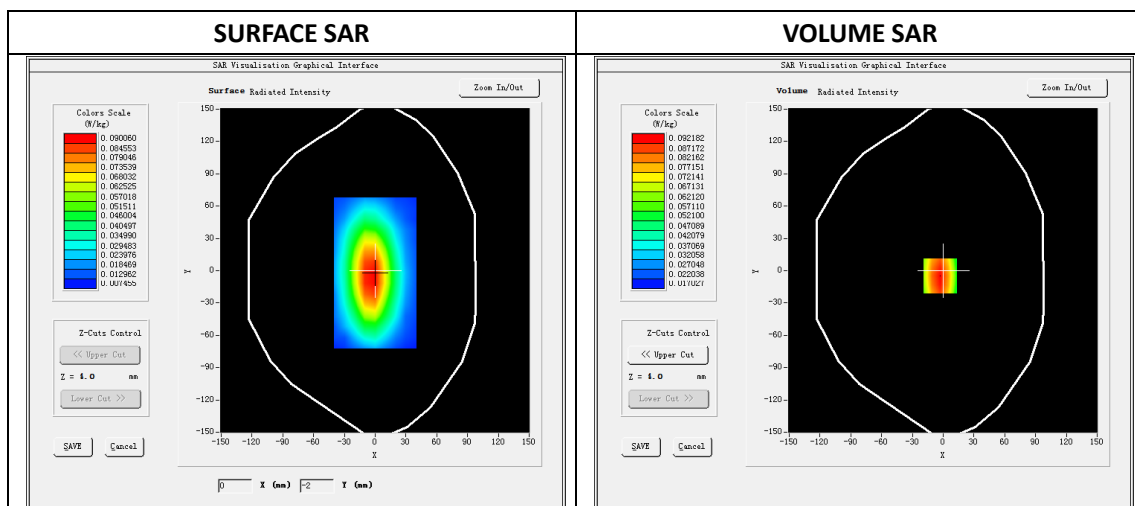
A. Experimental conditions.

| | |
|-----------------|----------------------------|
| 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

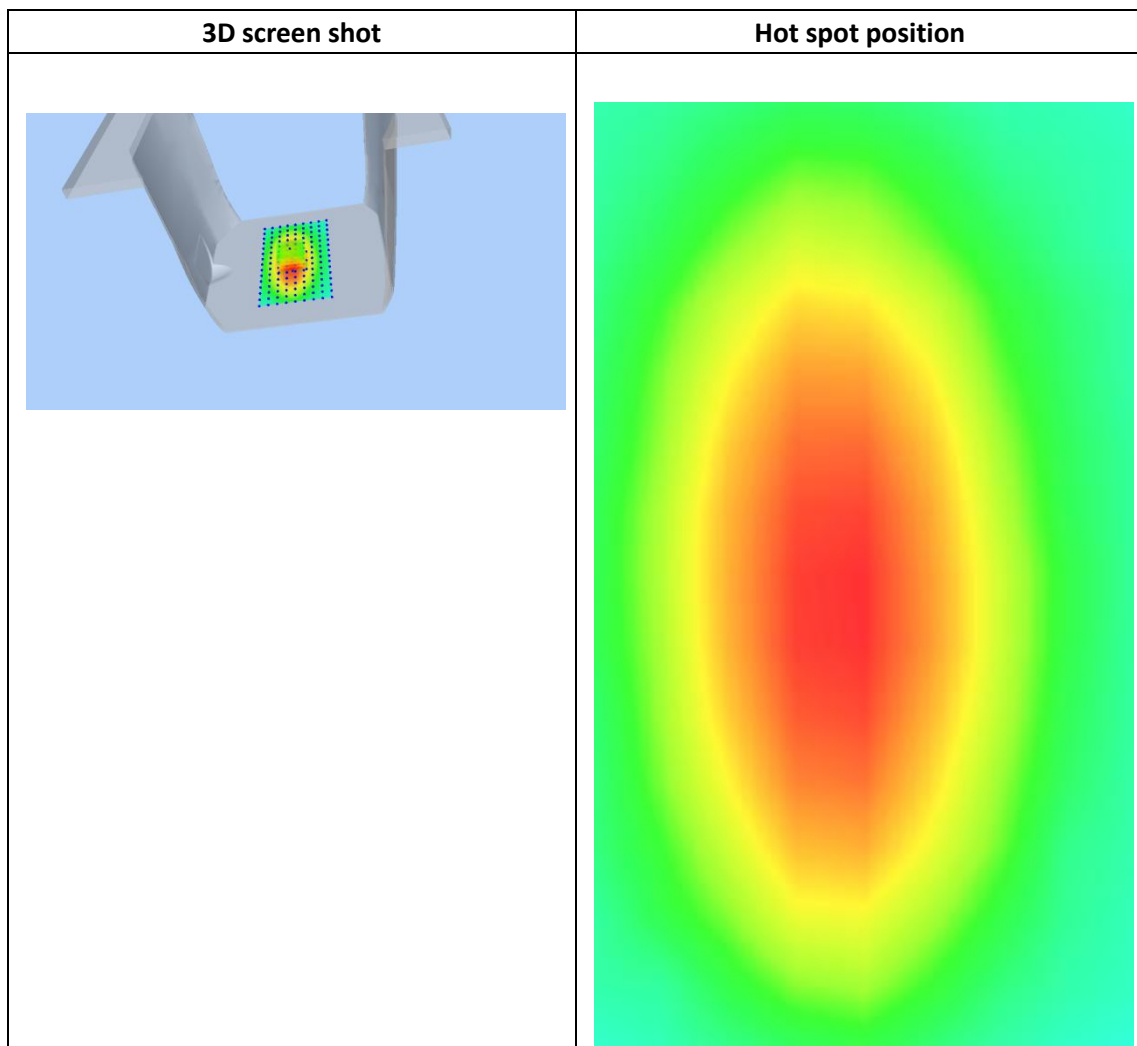
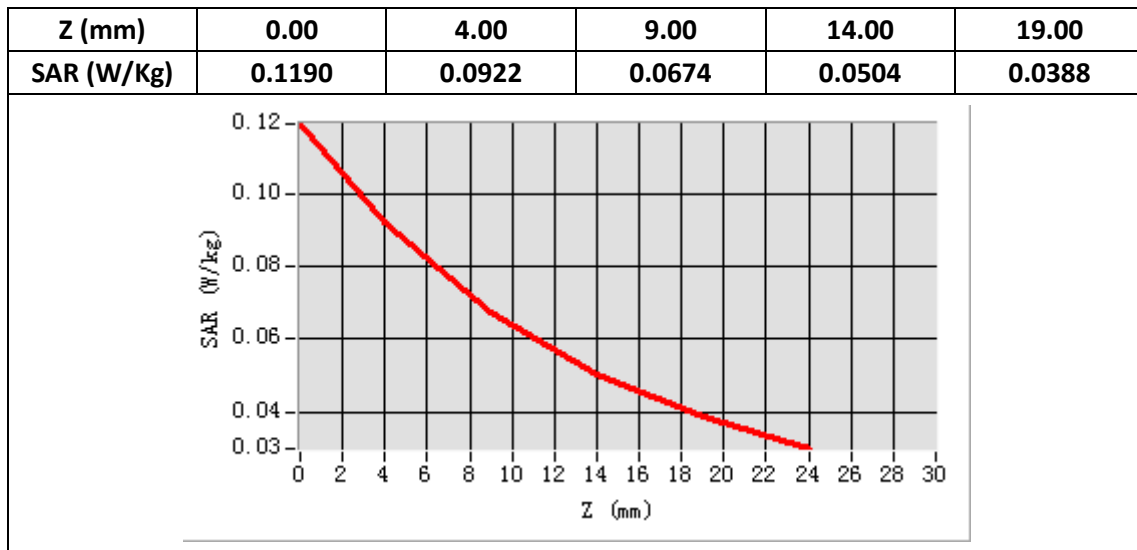
| | |
|-----------------------------------|-------------------------|
| E-Field Probe | SATIMO SN_27/15_EPG0261 |
| Frequency (MHz) | 835 |
| Relative permittivity (real part) | 41.45 |
| Relative permittivity | 19.27 |
| Conductivity (S/m) | 0.91 |
| Power drift (%) | -1.15 |
| Ambient Temperature: | 22.2°C |
| Liquid Temperature: | 22.6°C |
| ConvF: | 1.92 |
| Crest factor: | 1:1 |



Maximum location: X=-3.00, Y=-5.00

SAR Peak: 0.12 W/kg

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.062361 |
| SAR 1g (W/Kg) | 0.089620 |



System Performance Check (Body, 835MHz)

Type: Phone measurement

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

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

Date of measurement: 07/04/2019

Measurement duration: 22 minutes 01 seconds

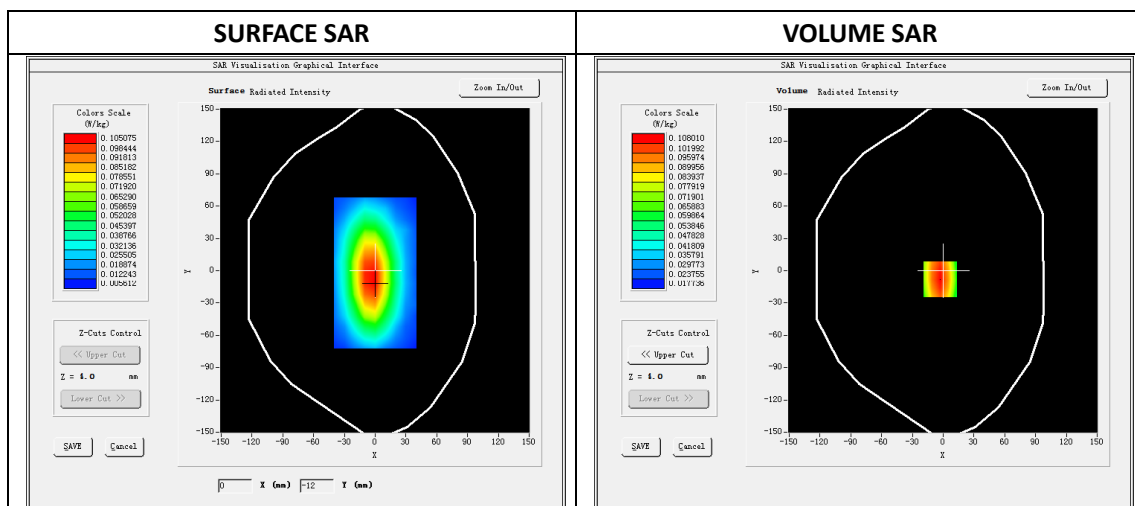
A. Experimental conditions.

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

B. SAR Measurement Results

Band SAR

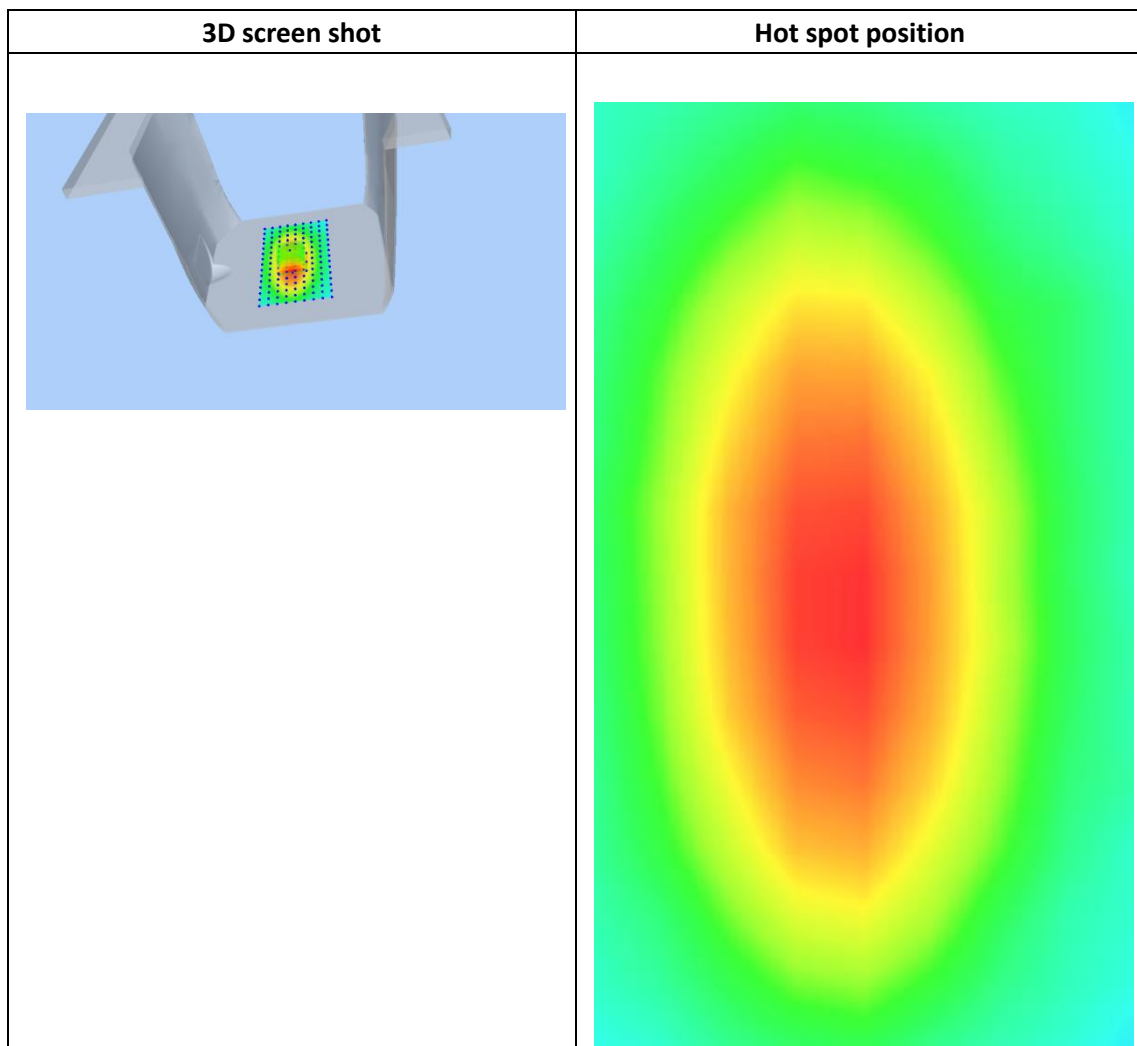
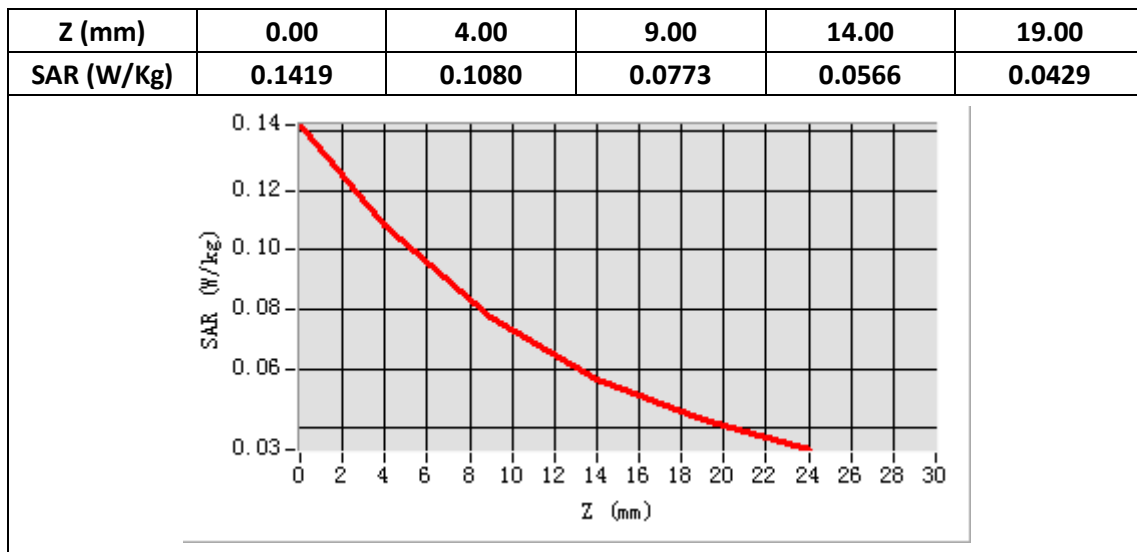
| | |
|-----------------------------------|-------------------------|
| E-Field Probe | SATIMO SN_27/15_EPG0261 |
| Frequency (MHz) | 835 |
| Relative permittivity (real part) | 55.20 |
| Relative permittivity | 20.48 |
| Conductivity (S/m) | 0.95 |
| Power drift (%) | -1.60 |
| Ambient Temperature: | 22.2°C |
| Liquid Temperature: | 22.6°C |
| ConvF: | 1.99 |
| Crest factor: | 1:1 |



Maximum location: X=-3.00, Y=-8.00

SAR Peak: 0.14 W/kg

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.071707 |
| SAR 1g (W/Kg) | 0.105107 |



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: 07/05/2019

Measurement duration: 22 minutes 10 seconds

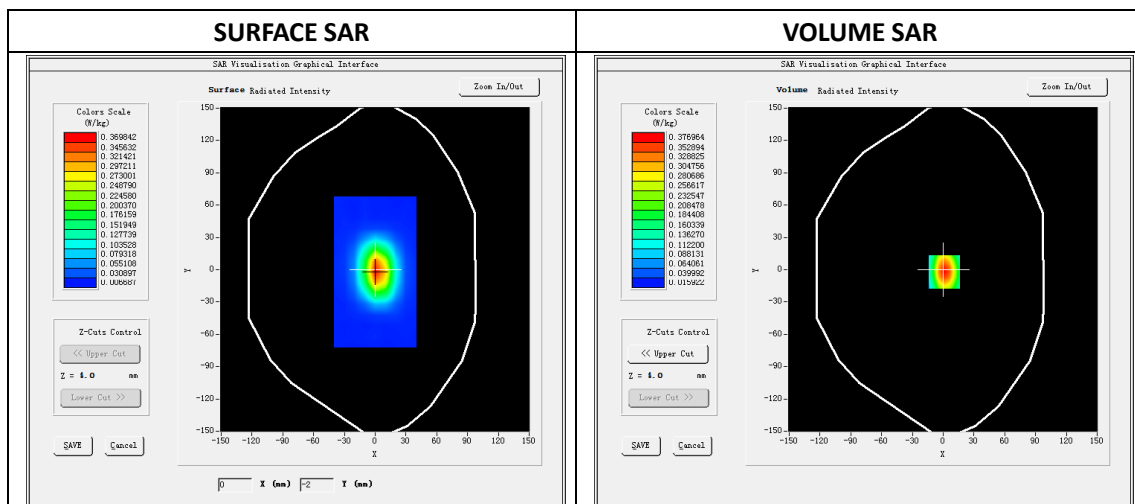
A. Experimental conditions.

| | |
|-----------------|----------------------------|
| 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

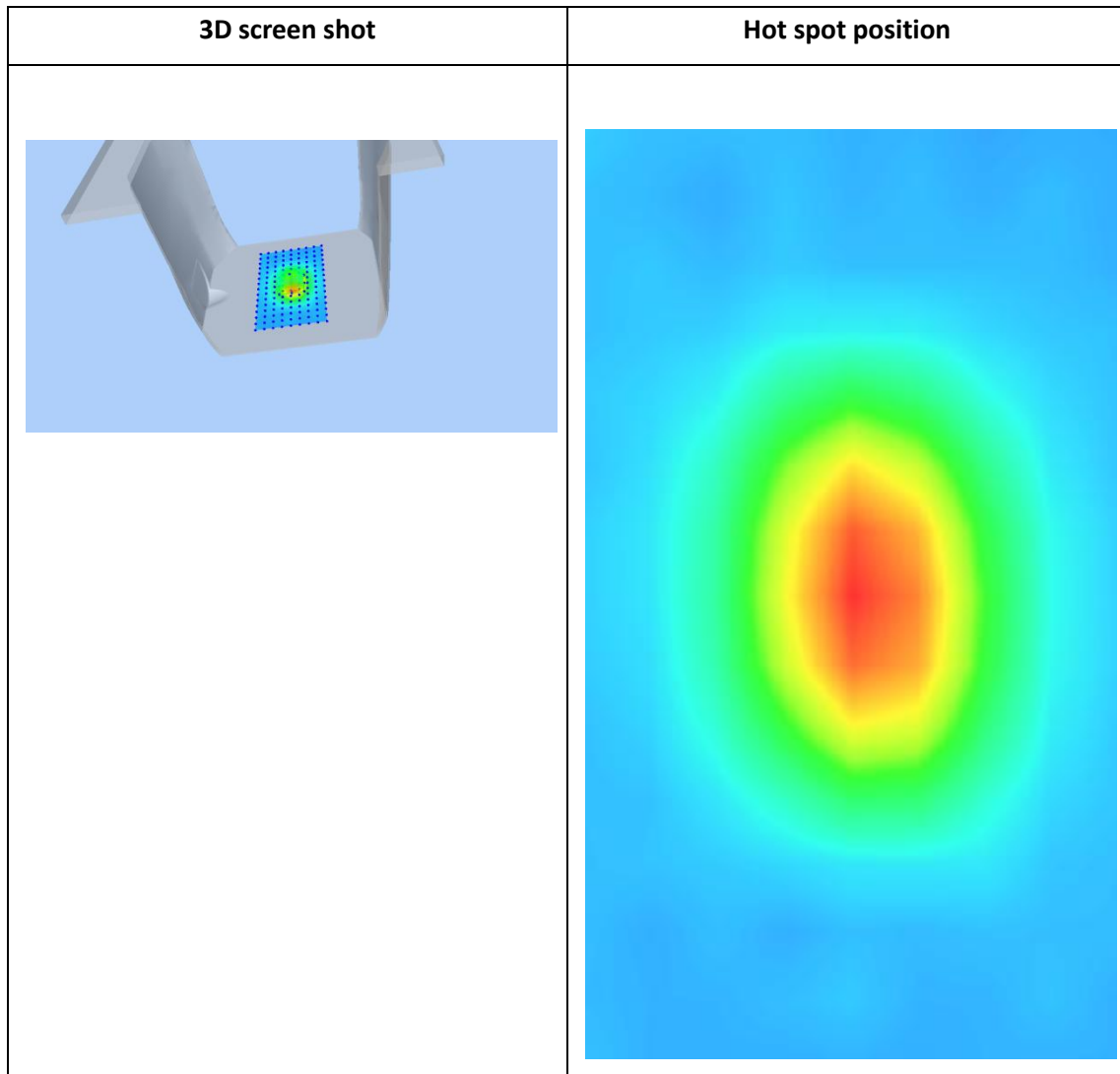
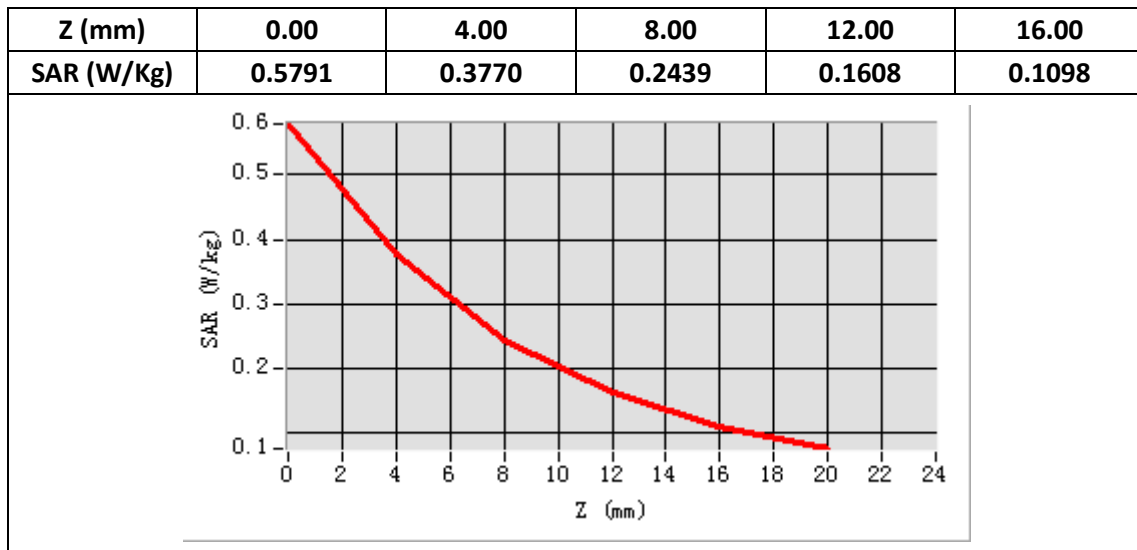
| | |
|-----------------------------------|-------------------------|
| E-Field Probe | SATIMO SN_27/15_EPG0261 |
| Frequency (MHz) | 1800 |
| Relative permittivity (real part) | 40.60 |
| Relative permittivity | 13.80 |
| Conductivity (S/m) | 1.38 |
| Power Drift (%) | -1.35 |
| Ambient Temperature: | 22.1°C |
| Liquid Temperature: | 22.6°C |
| ConvF: | 2.14 |
| Duty factor: | 1:1 |



Maximum location: X=1.00, Y=-2.00

SAR Peak: 0.58 W/kg

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.188775 |
| SAR 1g (W/Kg) | 0.350250 |



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: 07/05/2019

Measurement duration: 22 minutes 16 seconds

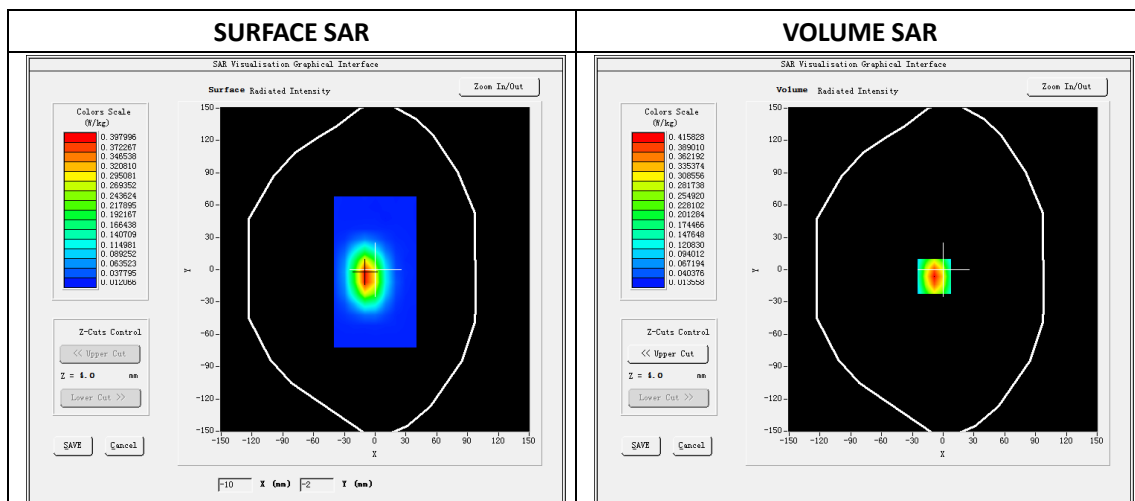
A. Experimental conditions.

| | |
|-----------------|----------------------------|
| 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

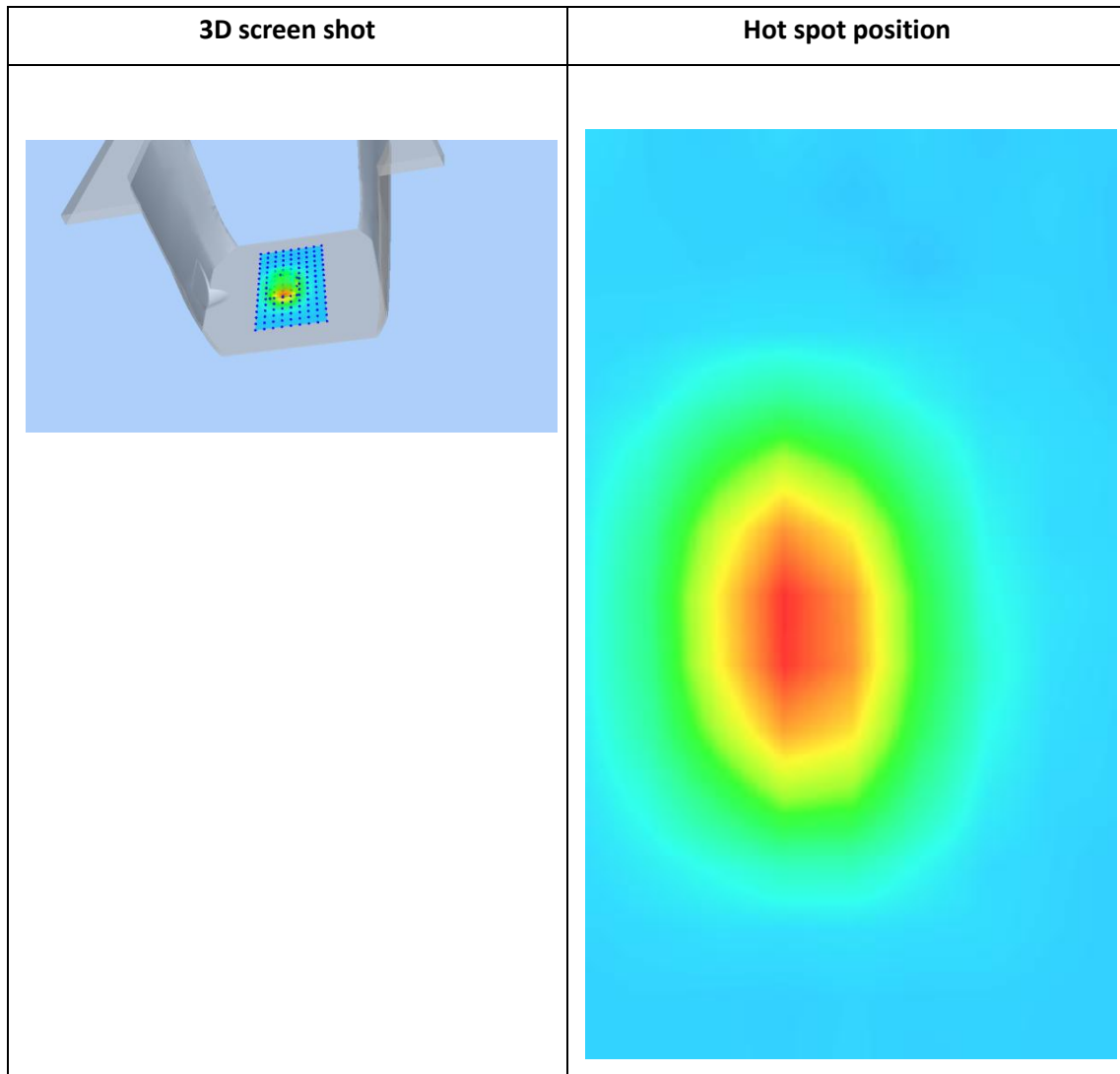
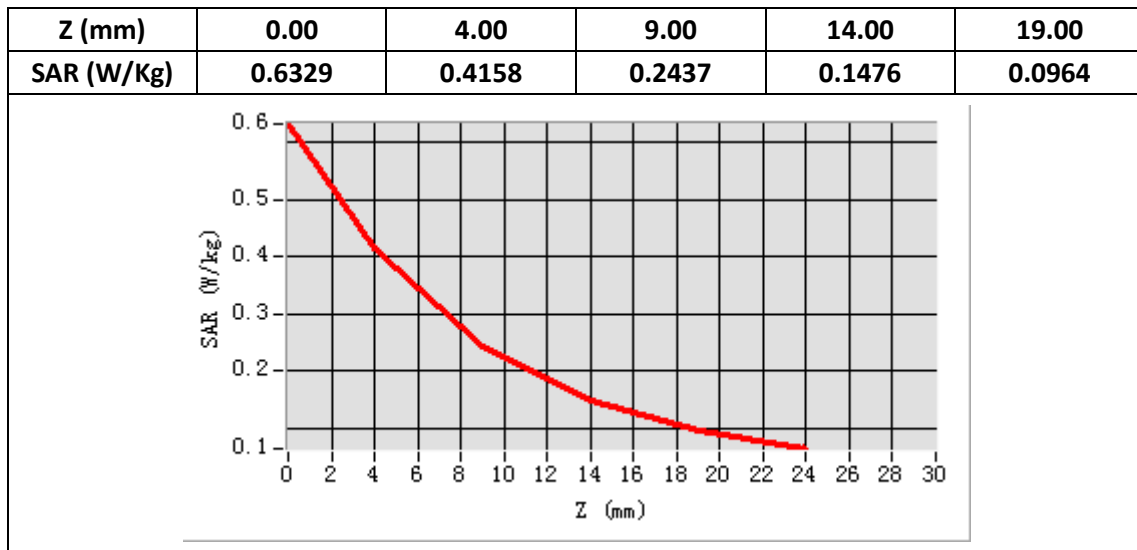
| | |
|-----------------------------------|-------------------------|
| E-Field Probe | SATIMO SN_27/15_EPG0261 |
| Frequency (MHz) | 1800 |
| Relative permittivity (real part) | 53.52 |
| Relative permittivity | 15.20 |
| Conductivity (S/m) | 1.52 |
| Power Drift (%) | -0.57 |
| Ambient Temperature: | 22.1°C |
| Liquid Temperature: | 22.6°C |
| ConvF: | 2.22 |
| Duty factor: | 1:1 |



Maximum location: X=-9.00, Y=-6.00

SAR Peak: 0.63 W/kg

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.208548 |
| SAR 1g (W/Kg) | 0.383642 |



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: 07/08/2019

Measurement duration: 22 minutes 14 seconds

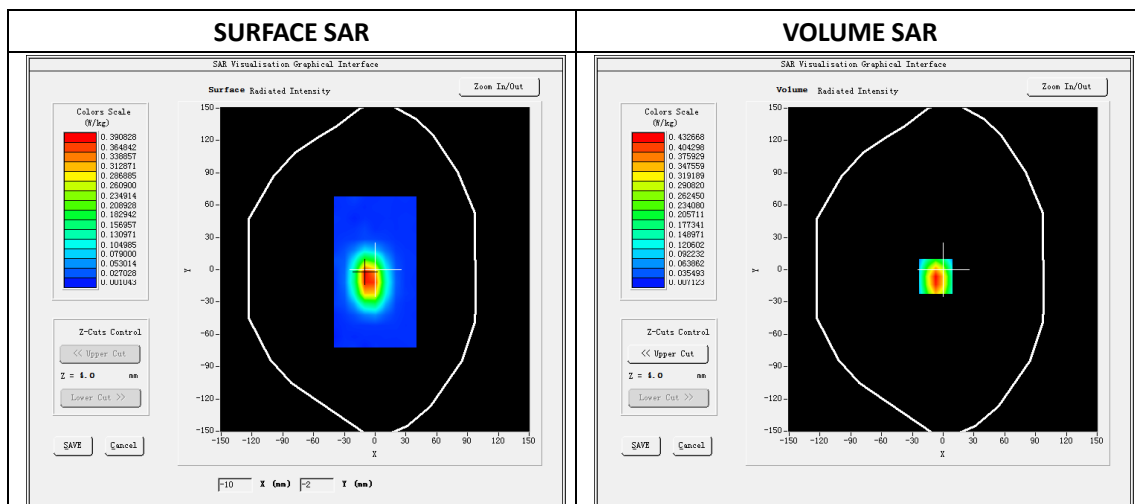
A. Experimental conditions.

| | |
|-----------------|----------------------------|
| 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

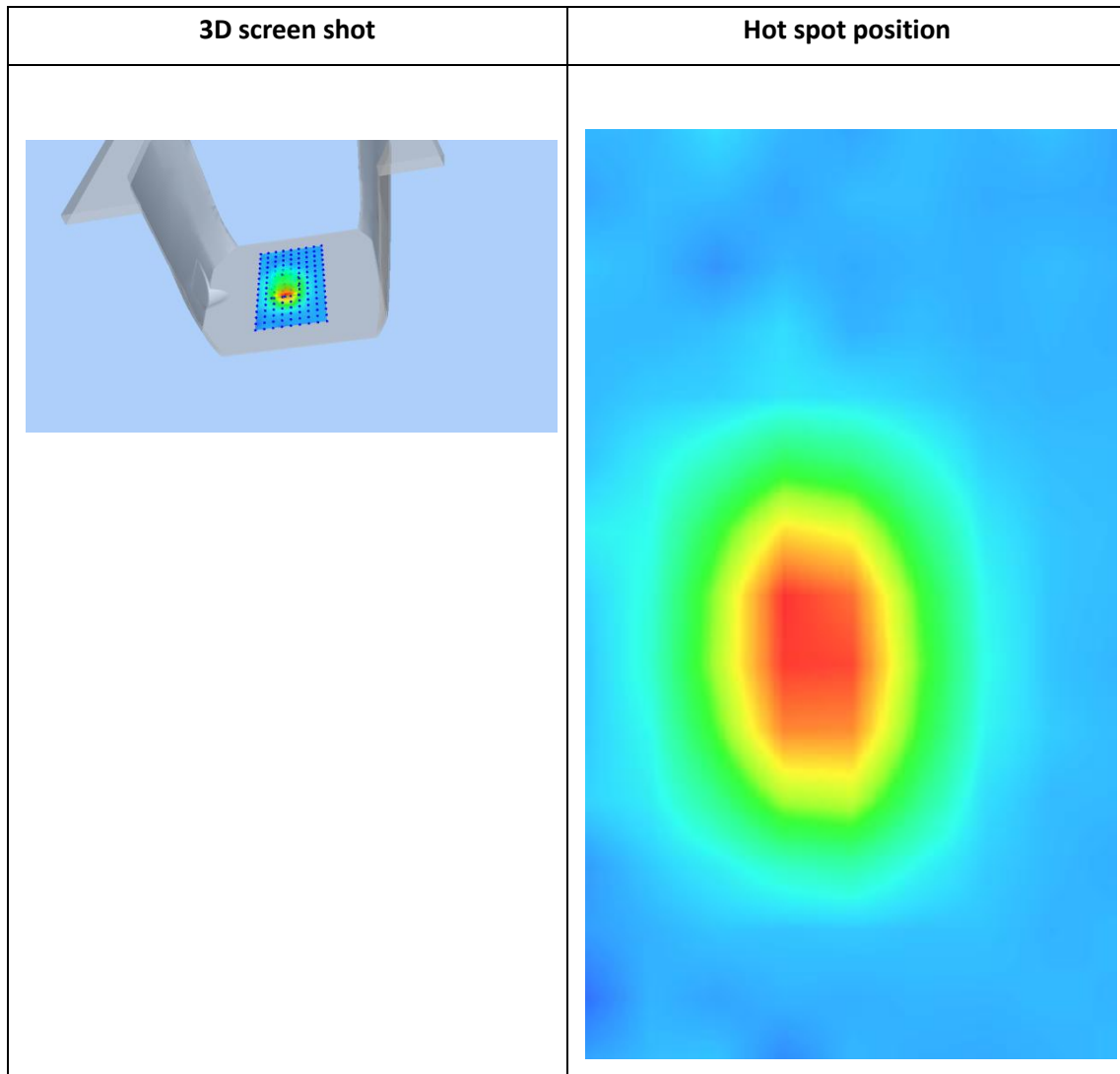
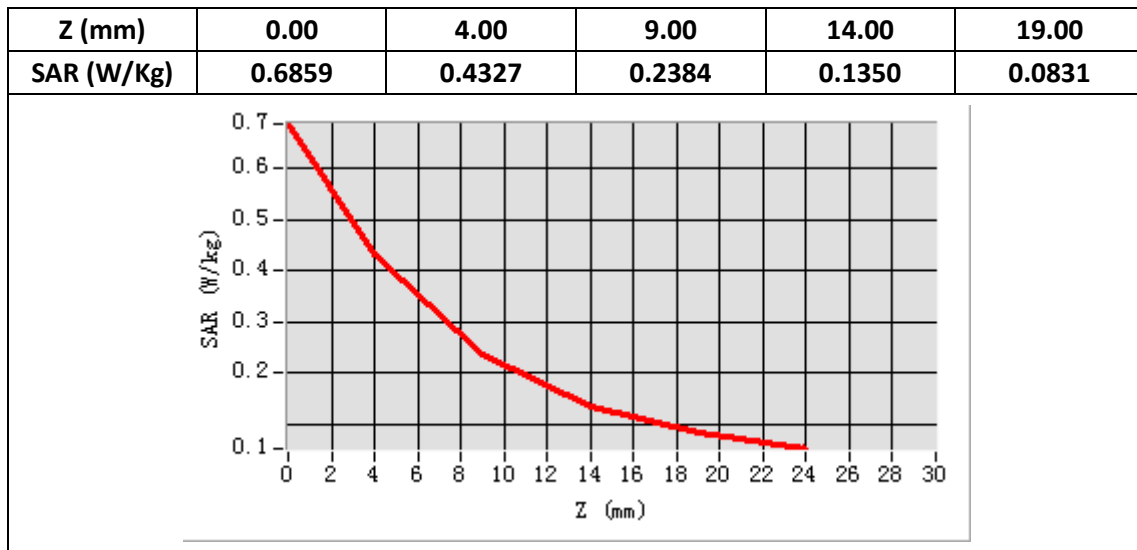
| | |
|-----------------------------------|-------------------------|
| E-Field Probe | SATIMO SN_27/15_EPG0261 |
| Frequency (MHz) | 1900 |
| Relative permittivity (real part) | 40.35 |
| Relative permittivity | 13.17 |
| Conductivity (S/m) | 1.39 |
| Power Drift (%) | 0.69 |
| Ambient Temperature: | 22.1°C |
| Liquid Temperature: | 22.6°C |
| ConvF: | 2.34 |
| Duty factor: | 1:1 |



Maximum location: X=-7.00, Y=-6.00

SAR Peak: 0.70 W/kg

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.207788 |
| SAR 1g (W/Kg) | 0.404117 |



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: 07/08/2019

Measurement duration: 22 minutes 17 seconds

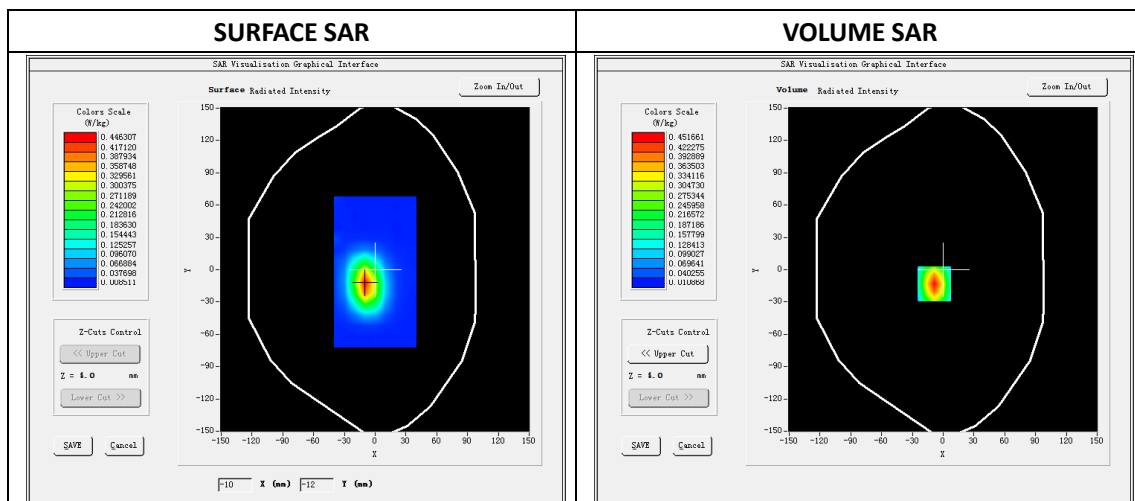
A. Experimental conditions.

| | |
|-----------------|----------------------------|
| 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

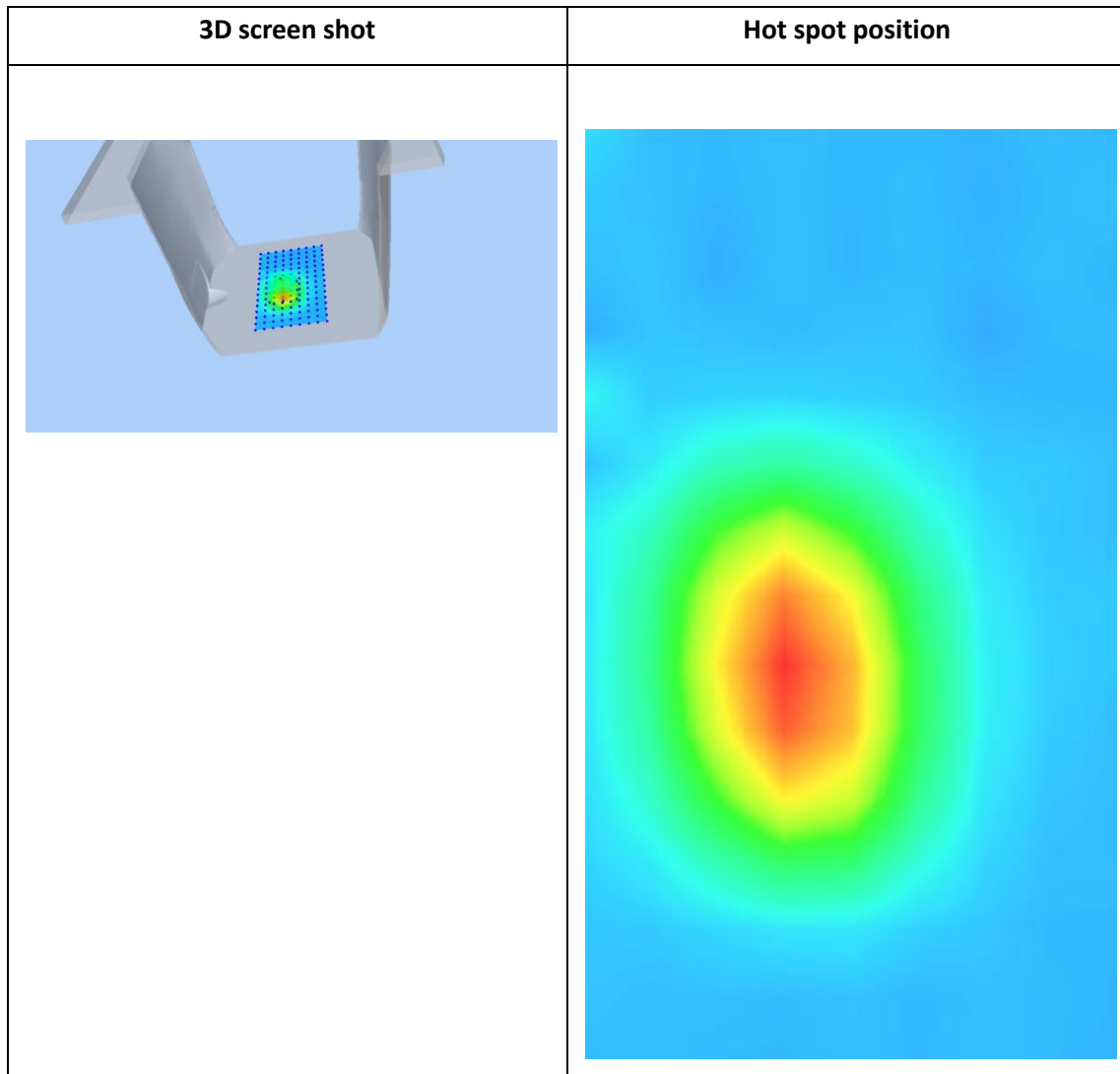
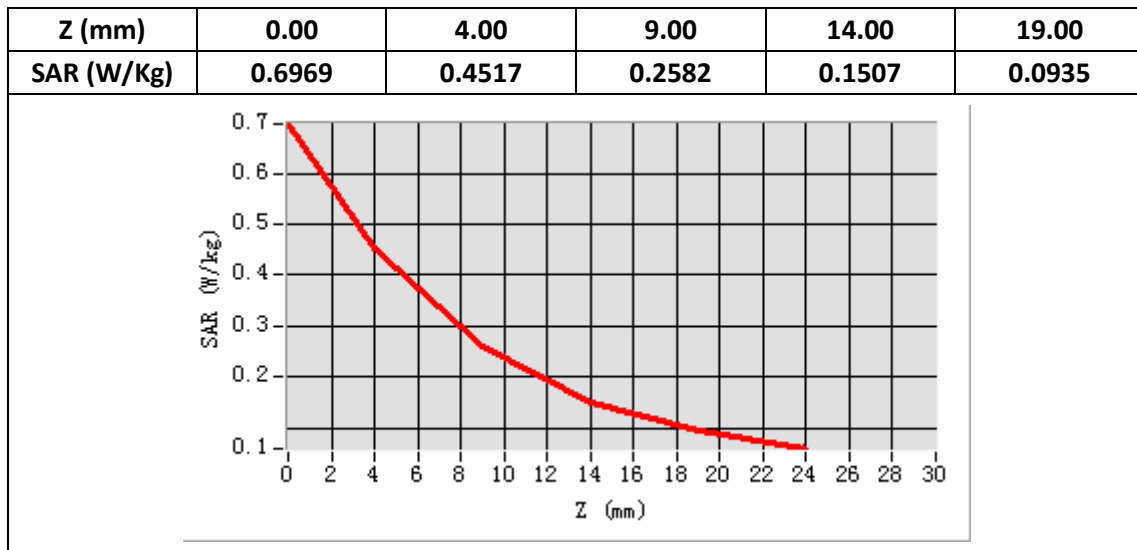
| | |
|-----------------------------------|-------------------------|
| E-Field Probe | SATIMO SN_27/15_EPG0261 |
| Frequency (MHz) | 1900 |
| Relative permittivity (real part) | 53.24 |
| Relative permittivity | 14.31 |
| Conductivity (S/m) | 1.51 |
| Power Drift (%) | -1.32 |
| Ambient Temperature: | 22.1°C |
| Liquid Temperature: | 22.6°C |
| ConvF: | 2.39 |
| Duty factor: | 1:1 |



Maximum location: X=-9.00, Y=-13.00

SAR Peak: 0.70 W/kg

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.217109 |
| SAR 1g (W/Kg) | 0.415965 |



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: 07/09/2019

Measurement duration: 22 minutes 19 seconds

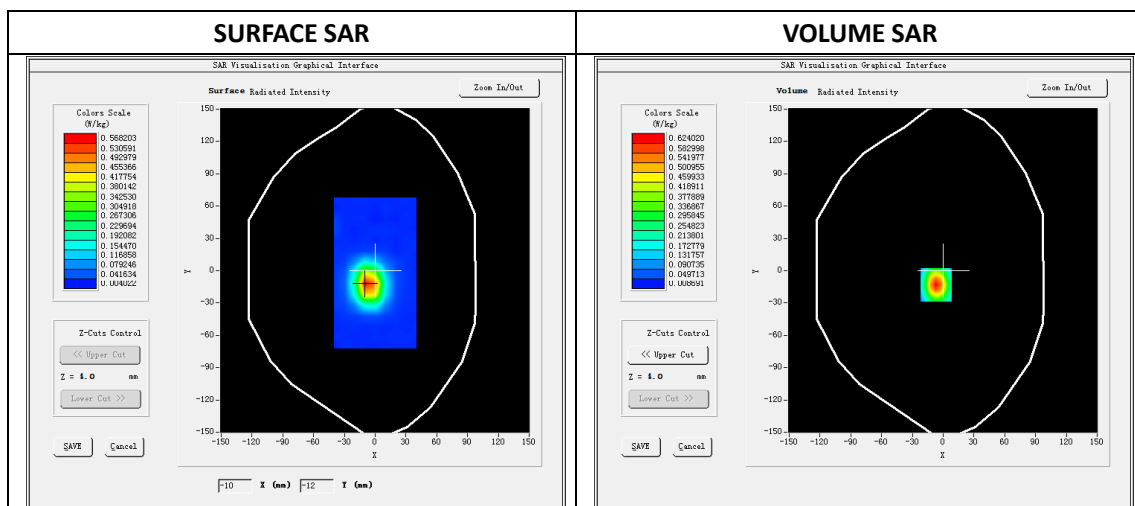
A. Experimental conditions.

| | |
|-----------------|----------------------------|
| 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

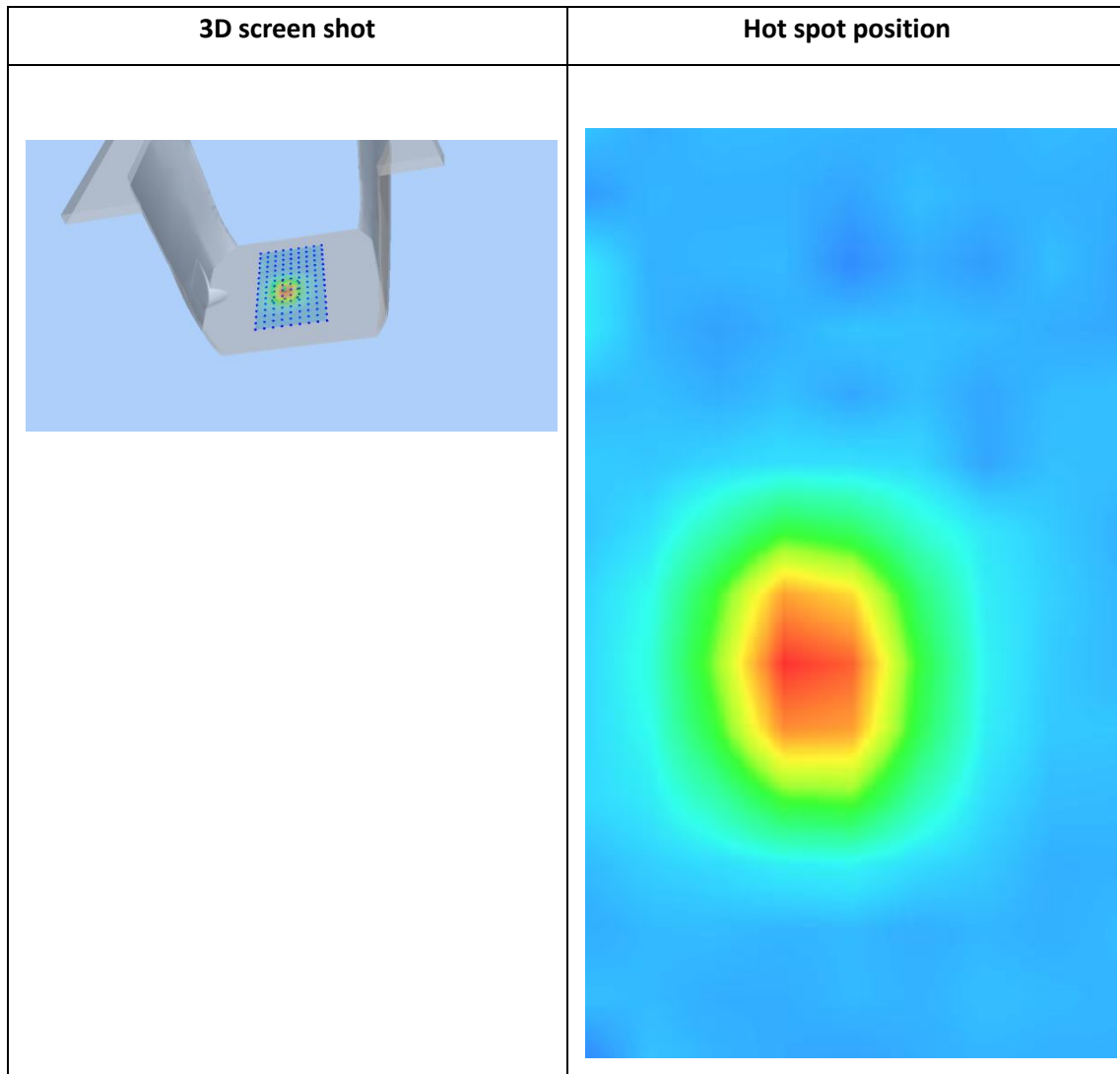
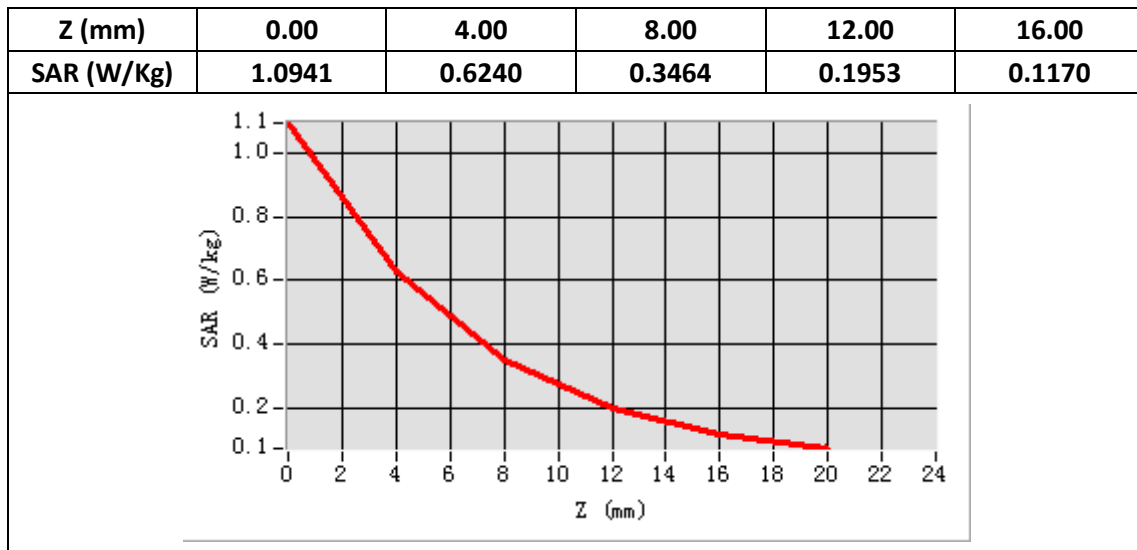
| | |
|-----------------------------------|-------------------------|
| E-Field Probe | SATIMO SN_27/15_EPG0261 |
| Frequency (MHz) | 2450 |
| Relative permittivity (real part) | 39.56 |
| Relative permittivity | 13.30 |
| Conductivity (S/m) | 1.81 |
| Power Drift (%) | -1.13 |
| Ambient Temperature: | 22.1°C |
| Liquid Temperature: | 22.6°C |
| ConvF: | 2.37 |
| Duty factor: | 1:1 |



Maximum location: X=-7.00, Y=-13.00

SAR Peak: 1.09 W/kg

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.257322 |
| SAR 1g (W/Kg) | 0.561261 |



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: 07/09/2019

Measurement duration: 22 minutes 18 seconds

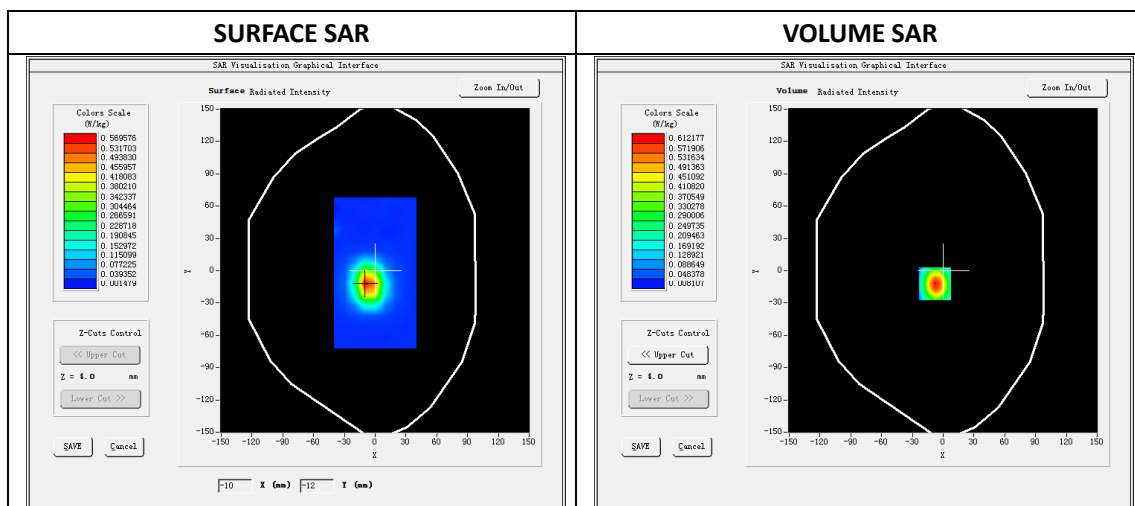
A. Experimental conditions.

| | |
|-----------------|----------------------------|
| 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

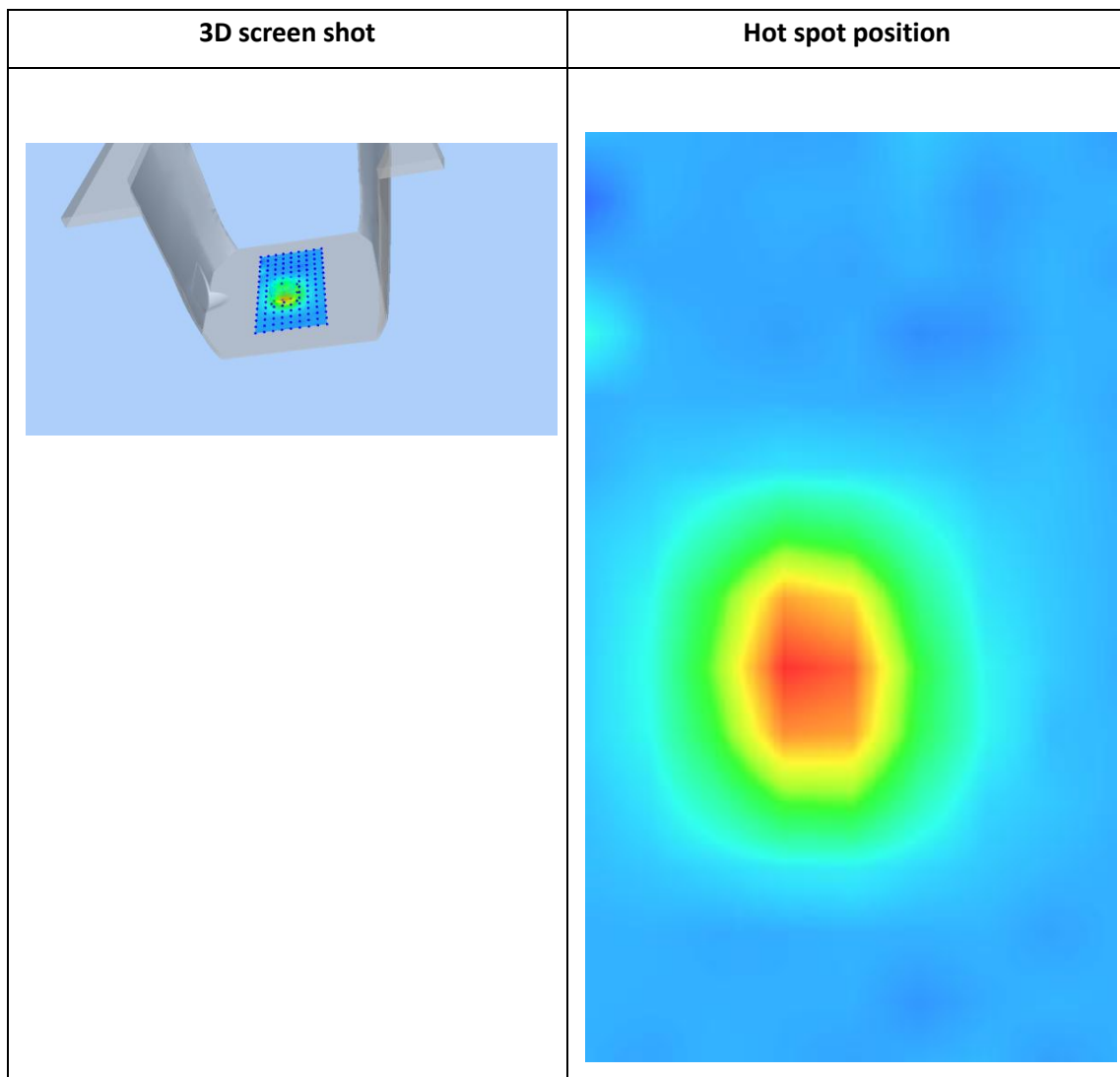
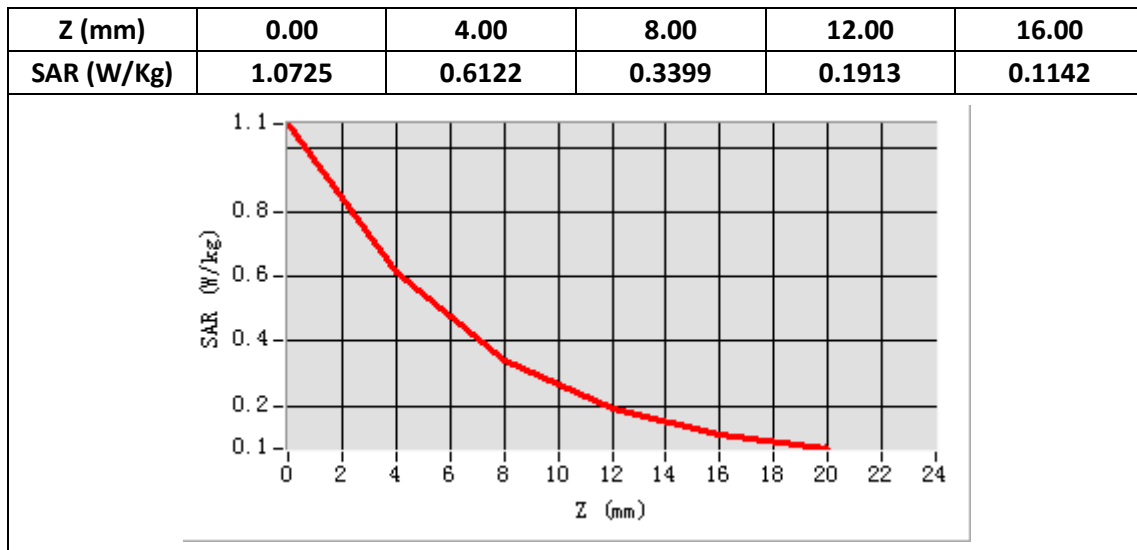
| | |
|-----------------------------------|-------------------------|
| E-Field Probe | SATIMO SN_27/15_EPG0261 |
| Frequency (MHz) | 2450 |
| Relative permittivity (real part) | 53.04 |
| Relative permittivity | 14.33 |
| Conductivity (S/m) | 1.95 |
| Power Drift (%) | -0.31 |
| Ambient Temperature: | 22.1°C |
| Liquid Temperature: | 22.6°C |
| ConvF: | 2.46 |
| Duty factor: | 1:1 |



Maximum location: X=-8.00, Y=-12.00

SAR Peak: 1.08 W/kg

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.255663 |
| SAR 1g (W/Kg) | 0.556600 |



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: 07/10/2019

Measurement duration: 22 minutes 20 seconds

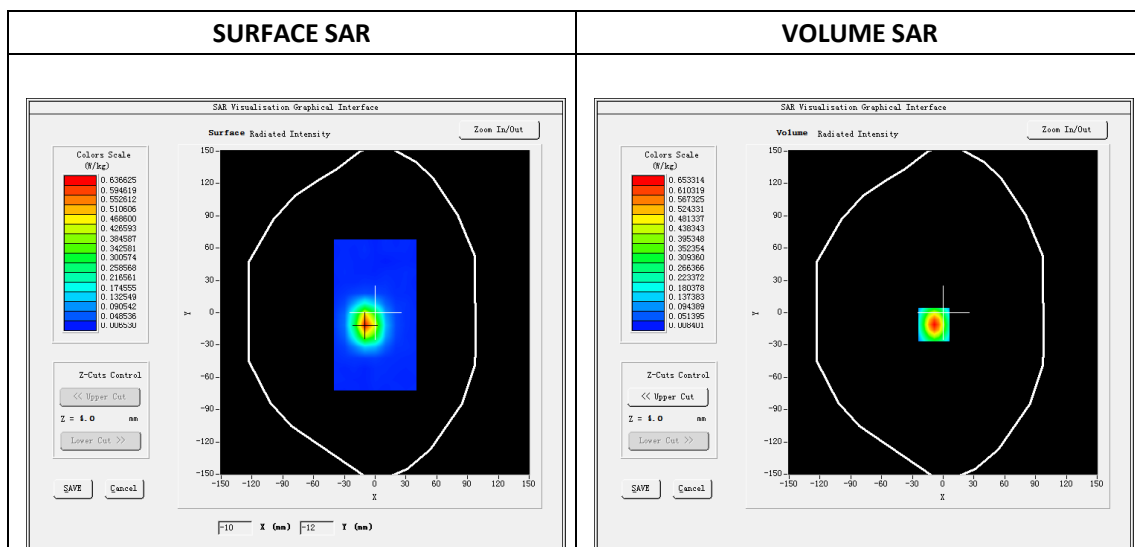
A. Experimental conditions.

| | |
|-----------------|----------------------------|
| 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

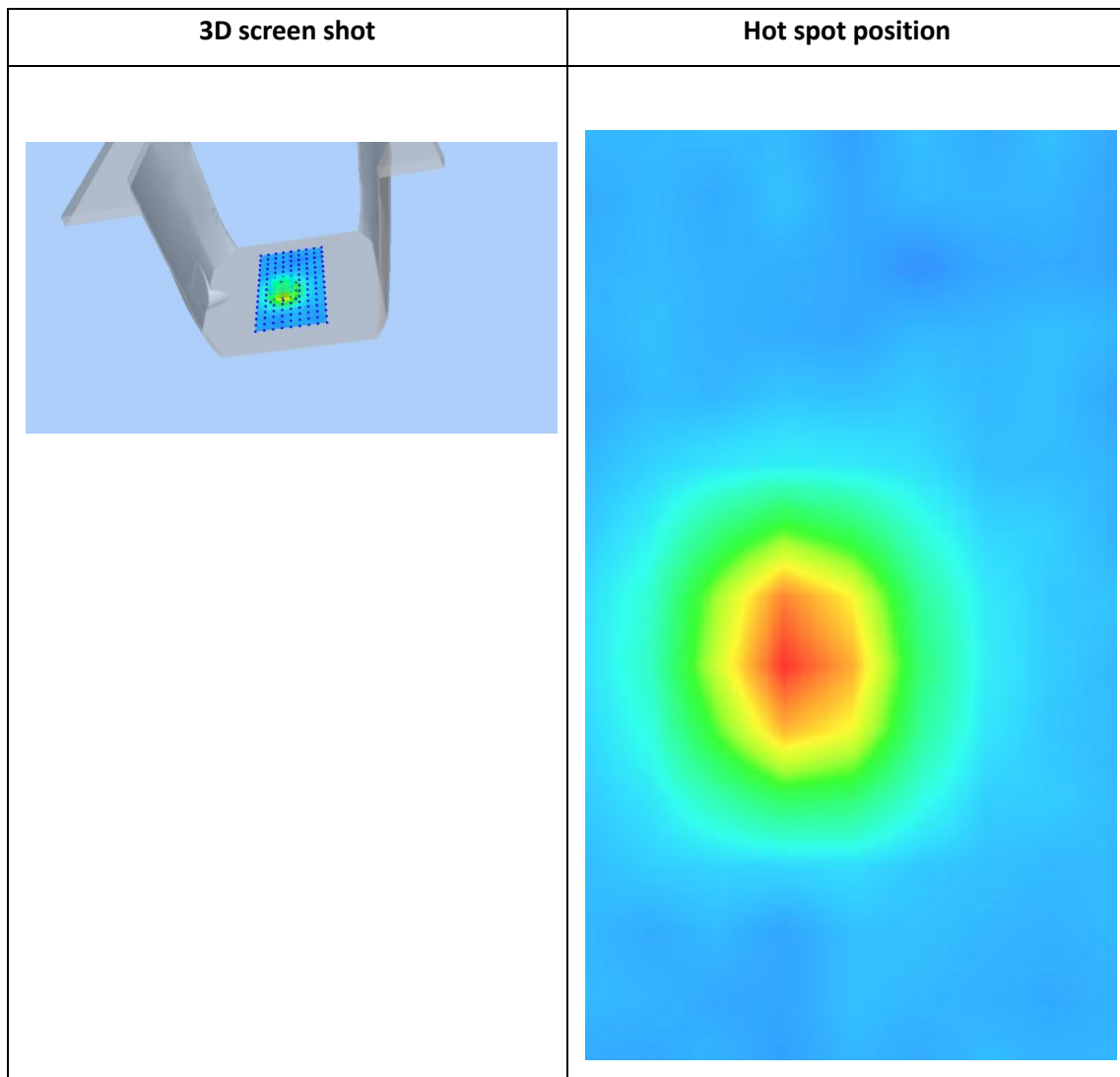
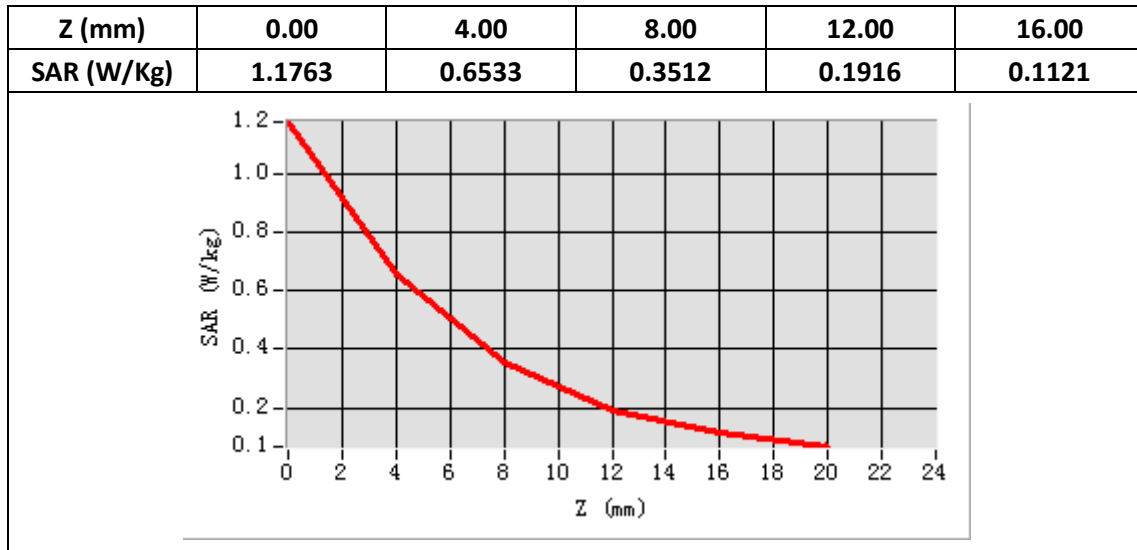
| | |
|-----------------------------------|-------------------------|
| E-Field Probe | SATIMO SN_27/15_EPG0261 |
| Frequency (MHz) | 2600 |
| Relative permittivity (real part) | 39.27 |
| Relative permittivity | 13.43 |
| Conductivity (S/m) | 1.94 |
| Power drift (%) | -0.63 |
| Ambient Temperature: | 22.2°C |
| Liquid Temperature: | 22.5°C |
| Crest factor: | 1:1 |
| ConvF: | 2.35 |



Maximum location: X=-9.00, Y=-11.00

SAR Peak: 1.18 W/kg

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.265422 |
| SAR 1g (W/Kg) | 0.587591 |



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: 07/10/2019

Measurement duration: 22 minutes 22 seconds

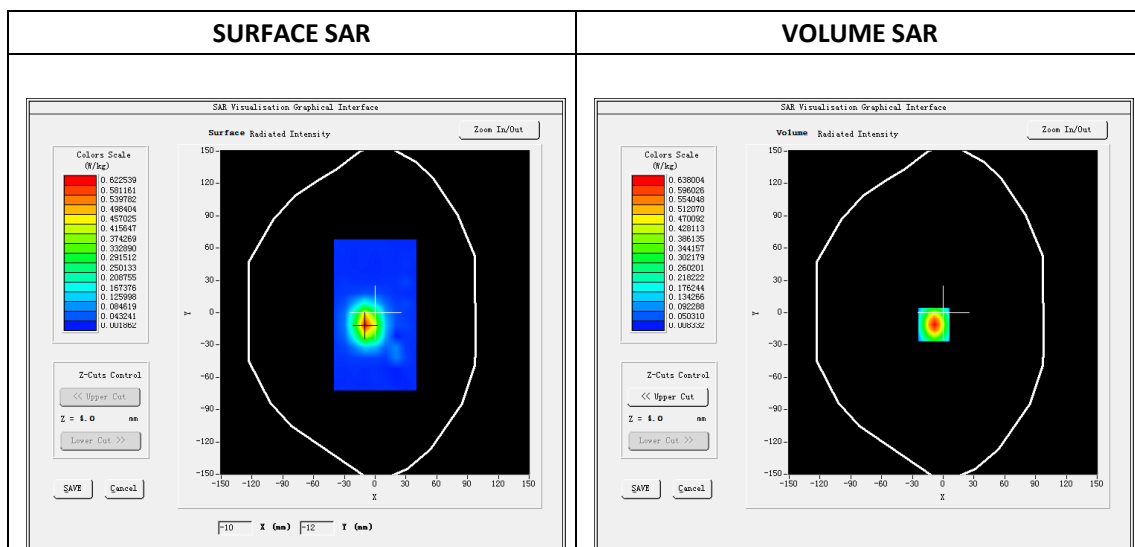
A. Experimental conditions.

| | |
|-----------------|----------------------------|
| 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

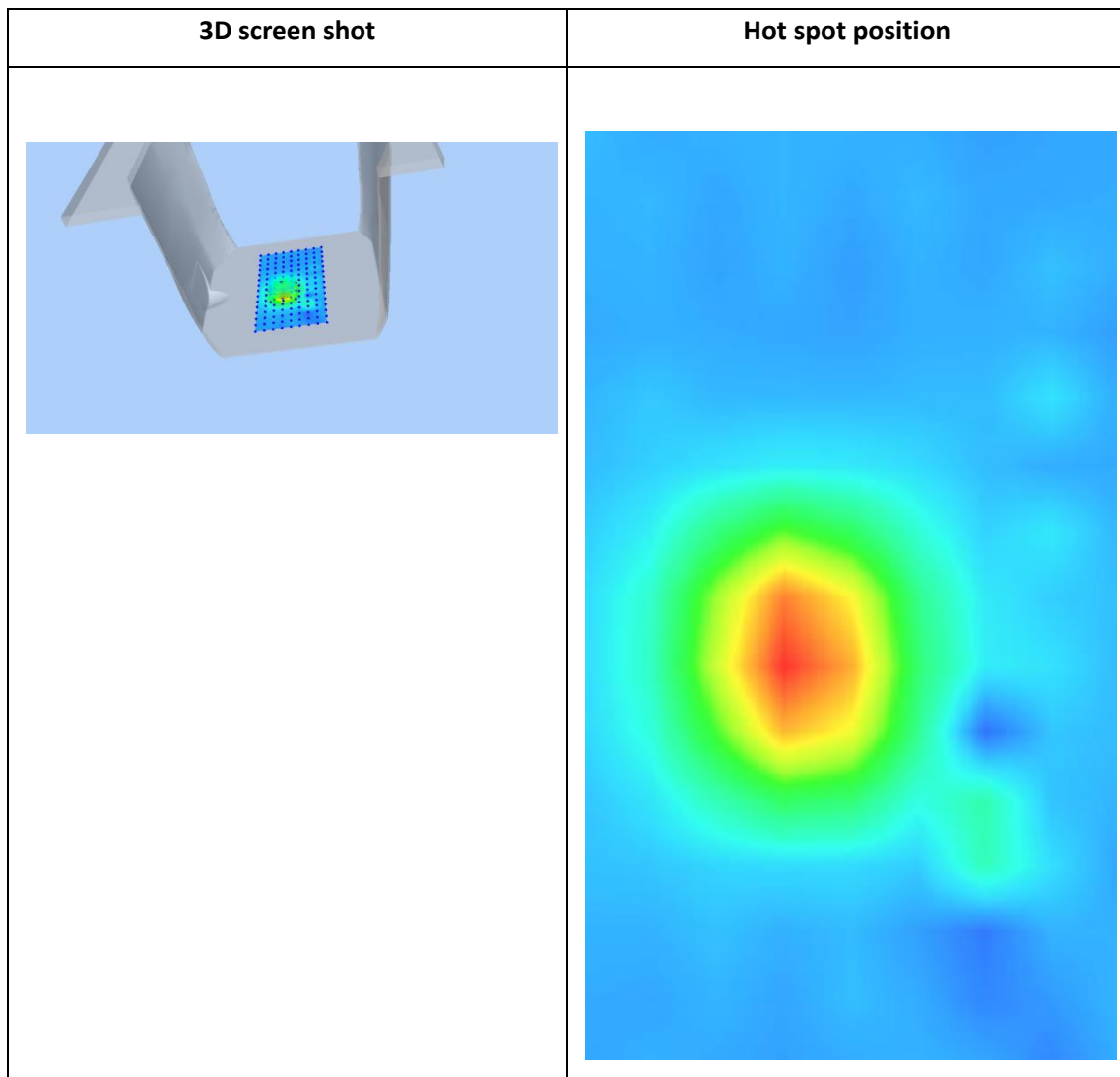
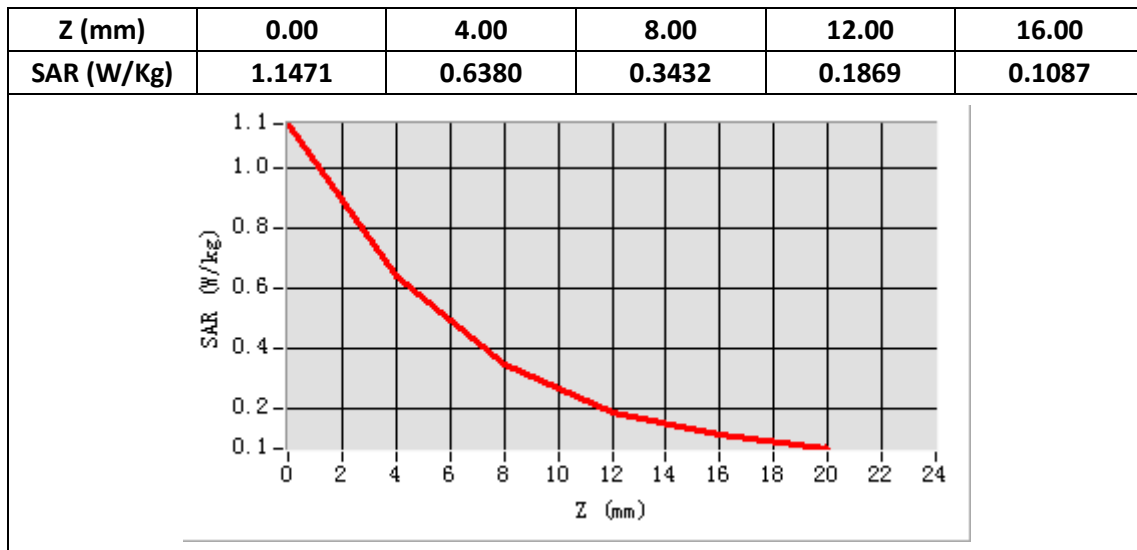
| | |
|-----------------------------------|-------------------------|
| E-Field Probe | SATIMO SN_27/15_EPG0261 |
| Frequency (MHz) | 2600 |
| Relative permittivity (real part) | 52.81 |
| Relative permittivity | 14.88 |
| Conductivity (S/m) | 2.15 |
| Power drift (%) | -0.36 |
| Ambient Temperature: | 22.2°C |
| Liquid Temperature: | 22.5°C |
| Crest factor: | 1:1 |
| ConvF: | 2.43 |



Maximum location: X=-9.00, Y=-11.00

SAR Peak: 1.15 W/kg

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.258747 |
| SAR 1g (W/Kg) | 0.575666 |



System Performance Check (Head, 5200MHz)

Type: Phone measurement

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

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

Date of measurement: 07/11/2019

Measurement duration: 22 minutes 25 seconds

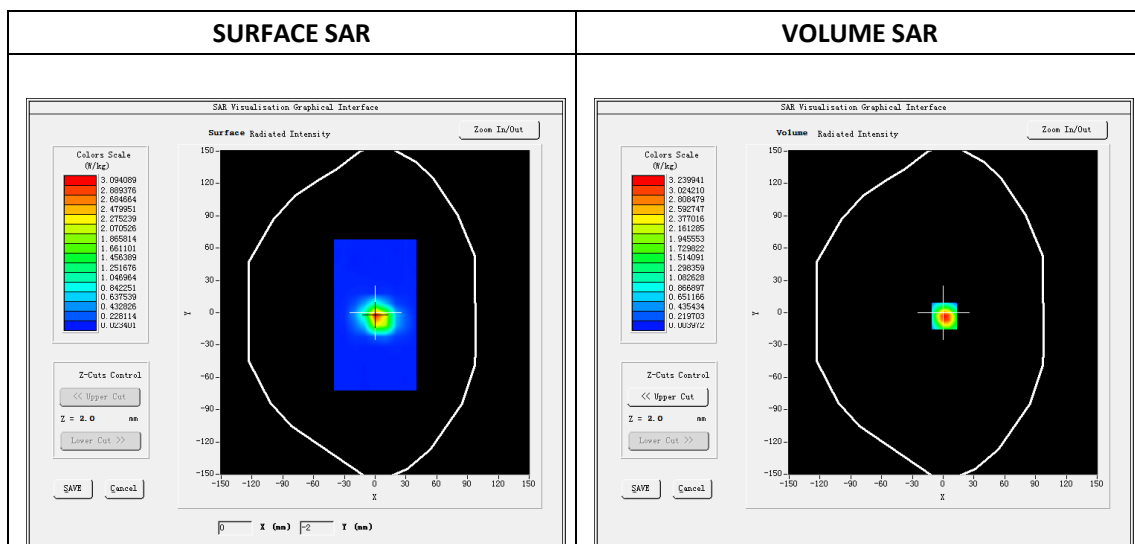
A. Experimental conditions.

| | |
|-----------------|----------------------------|
| Phantom File | dx=8mm dy=8mm |
| Phantom | 7x7x8,dx=4mm dy=4mm dz=2mm |
| Device Position | Dipole |
| Band | 5200MHz |
| Channels | |
| Signal | CW |

B. SAR Measurement Results

Band SAR

| | |
|-----------------------------------|-------------------------|
| E-Field Probe | SATIMO SN_27/15_EPG0261 |
| Frequency (MHz) | 5200 |
| Relative permittivity (real part) | 36.53 |
| Relative permittivity | 16.96 |
| Conductivity (S/m) | 4.90 |
| Power drift (%) | -1.32 |
| Ambient Temperature: | 22.2°C |
| Liquid Temperature: | 22.5°C |
| Crest factor: | 1:1 |
| ConvF: | 2.15 |

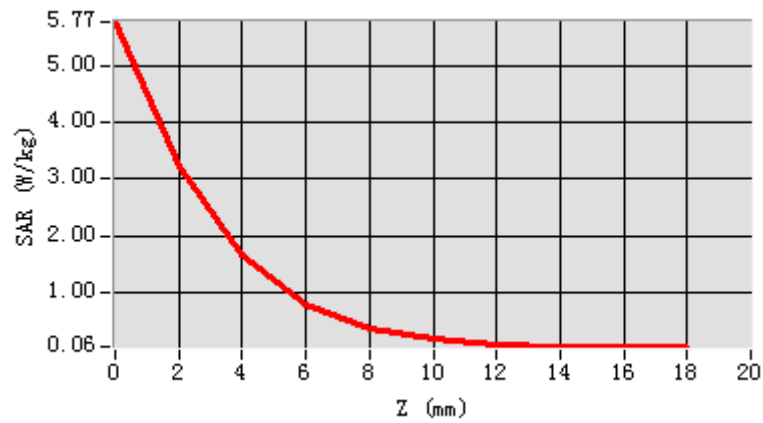


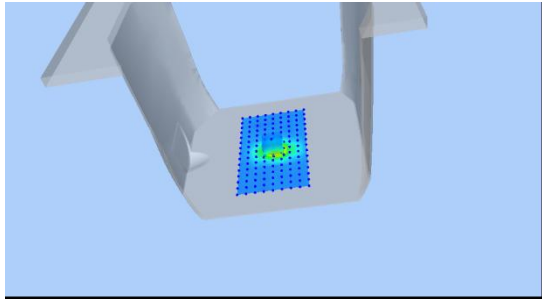
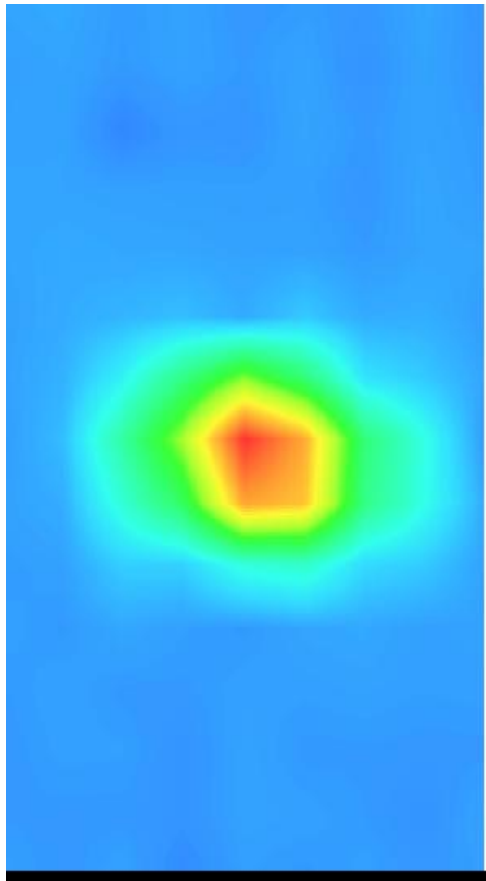
Maximum location: X=1.00, Y=-3.00

SAR Peak: 6.06W/kg

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.541108 |
| SAR 1g (W/Kg) | 1.779427 |

| Z (mm) | 0.00 | 2.00 | 4.00 | 6.00 | 8.00 | 10.00 | 12.00 | 14.00 | 16.00 |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SAR (W/Kg) | 5.7662 | 3.2399 | 1.6760 | 0.8041 | 0.3753 | 0.1793 | 0.0961 | 0.0643 | 0.0553 |



| 3D screen shot | Hot spot position |
|---|--|
|  |  |

System Performance Check (Body, 5200MHz)

Type: Phone measurement

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

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

Date of measurement: 07/11/2019

Measurement duration: 22 minutes 21 seconds

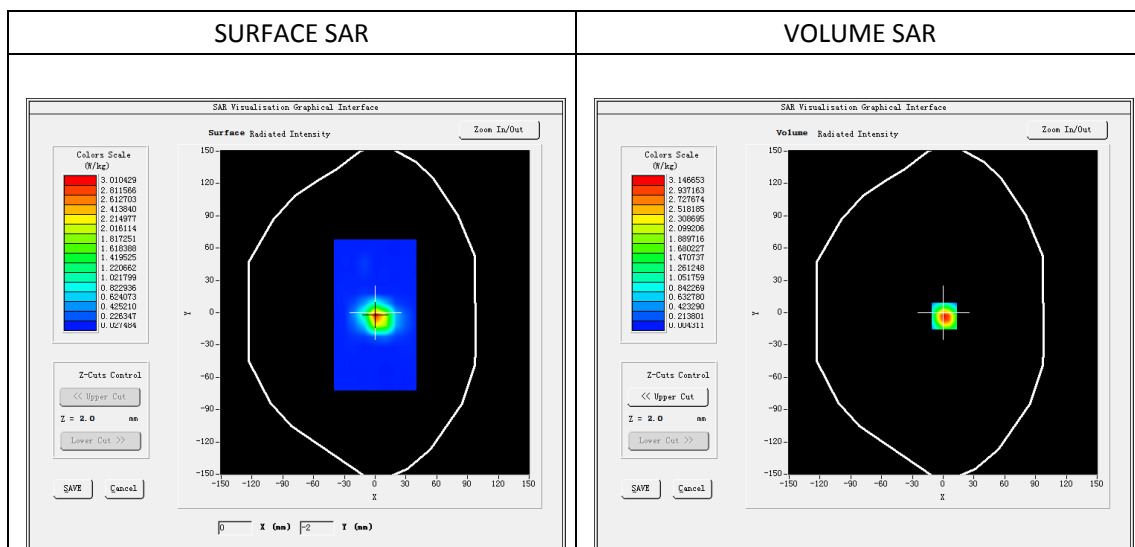
A. Experimental conditions.

| | |
|-----------------|----------------------------|
| Phantom File | dx=8mm dy=8mm |
| Phantom | 7x7x8,dx=4mm dy=4mm dz=2mm |
| Device Position | Dipole |
| Band | 5200MHz |
| Channels | |
| Signal | CW |

B. SAR Measurement Results

Band SAR

| | |
|-----------------------------------|-------------------------|
| E-Field Probe | SATIMO SN_27/15_EPG0261 |
| Frequency (MHz) | 5200 |
| Relative permittivity (real part) | 50.68 |
| Relative permittivity | 18.21 |
| Conductivity (S/m) | 5.26 |
| Power drift (%) | -0.73 |
| Ambient Temperature: | 22.2°C |
| Liquid Temperature: | 22.5°C |
| Crest factor: | 1:1 |
| ConvF: | 2.21 |

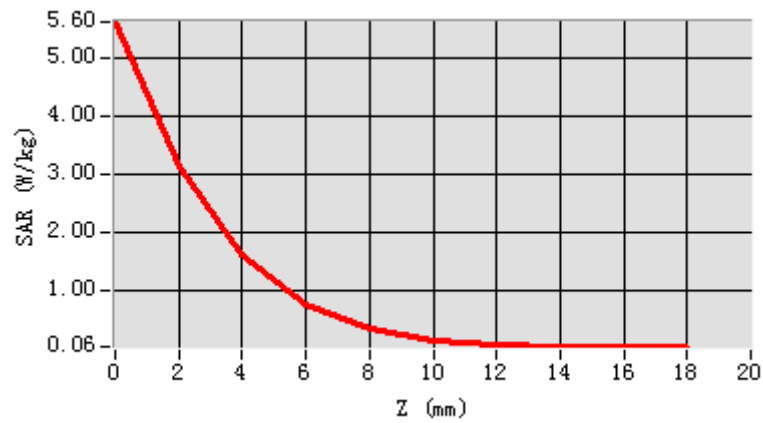


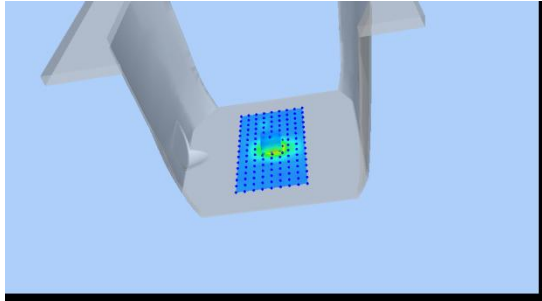
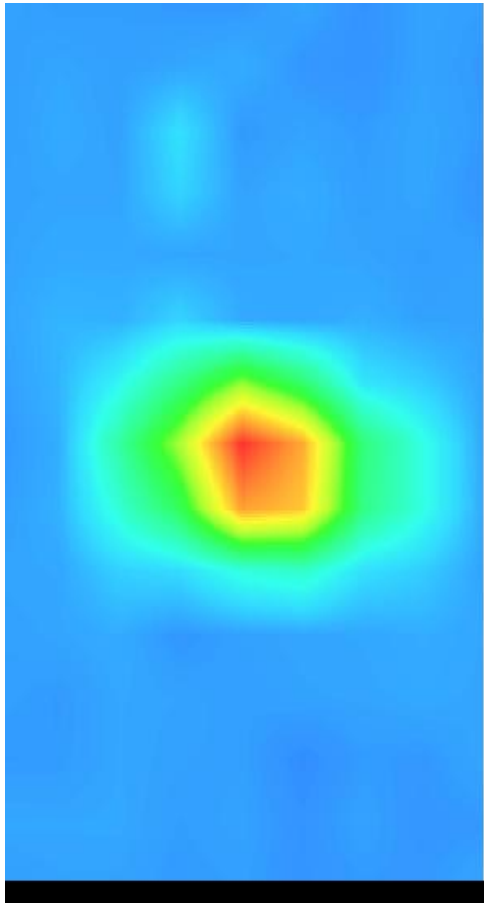
Maximum location: X=1.00, Y=-3.00

SAR Peak: 5.88 W/kg

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.524052 |
| SAR 1g (W/Kg) | 1.708336 |

| Z (mm) | 0.00 | 2.00 | 4.00 | 6.00 | 8.00 | 10.00 | 12.00 | 14.00 | 16.00 |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SAR (W/Kg) | 5.5999 | 3.1467 | 1.6283 | 0.7826 | 0.3671 | 0.1773 | 0.0969 | 0.0665 | 0.0585 |



| 3D screen shot | Hot spot position |
|---|--|
|  |  |

System Performance Check (Head, 5400MHz)

Type: Phone measurement

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

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

Date of measurement: 07/12/2019

Measurement duration: 22 minutes 27 seconds

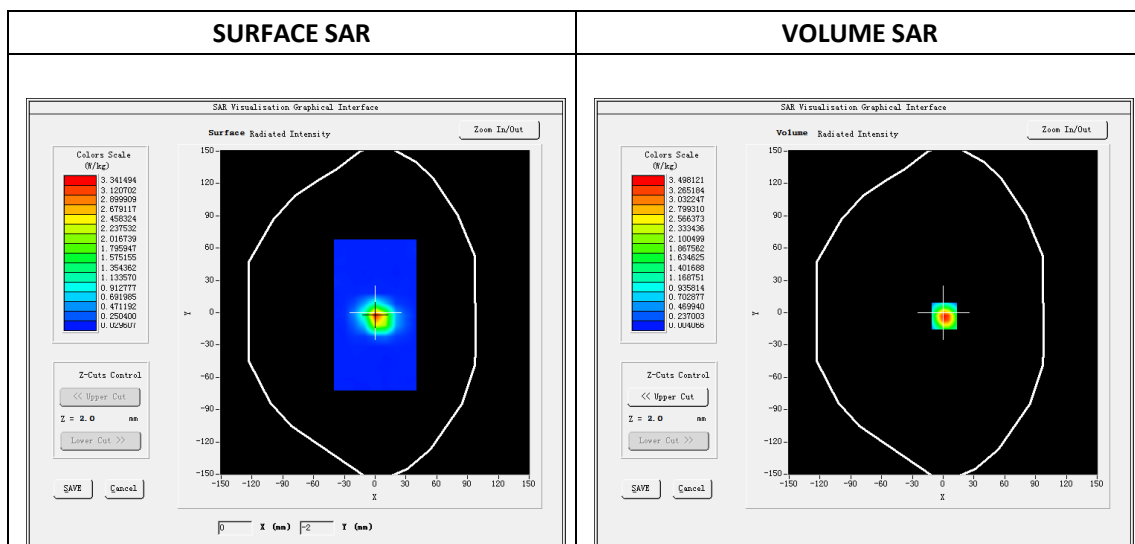
A. Experimental conditions.

| | |
|-----------------|----------------------------|
| Phantom File | dx=8mm dy=8mm |
| Phantom | 7x7x8,dx=4mm dy=4mm dz=2mm |
| Device Position | Dipole |
| Band | 5400MHz |
| Channels | |
| Signal | CW |

B. SAR Measurement Results

Band SAR

| | |
|-----------------------------------|-------------------------|
| E-Field Probe | SATIMO SN_27/15_EPG0261 |
| Frequency (MHz) | 5400 |
| Relative permittivity (real part) | 36.31 |
| Relative permittivity | 16.43 |
| Conductivity (S/m) | 4.93 |
| Power drift (%) | -1.24 |
| Ambient Temperature: | 22.2°C |
| Liquid Temperature: | 22.5°C |
| Crest factor: | 1:1 |
| ConvF: | 2.10 |

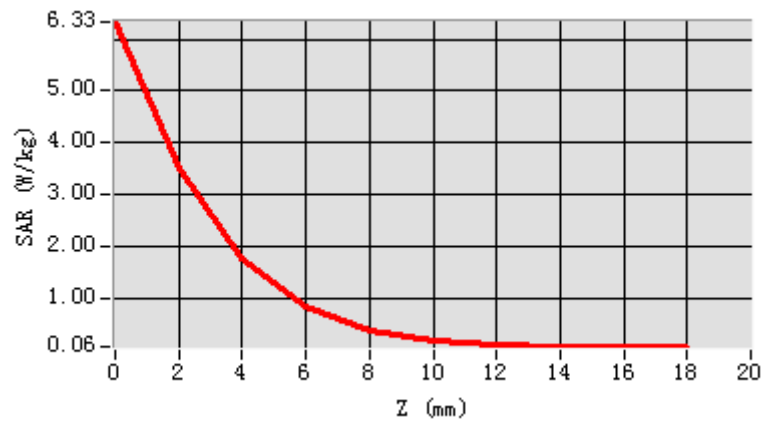


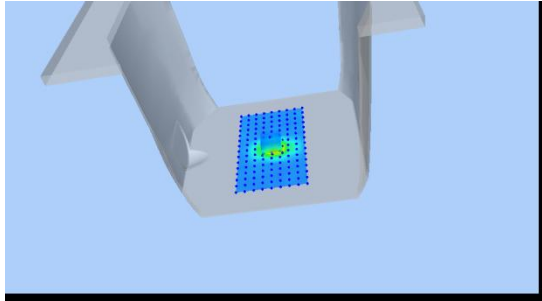
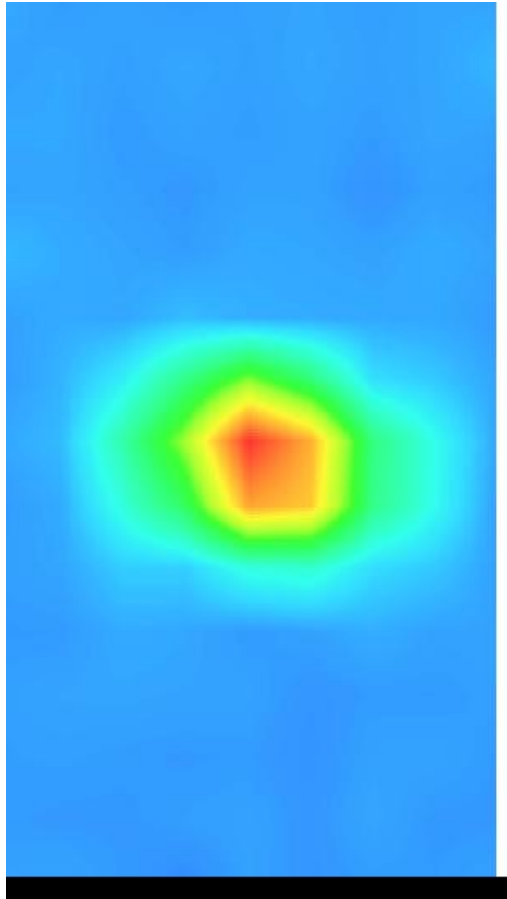
Maximum location: X=1.00, Y=-3.00

SAR Peak: 6.66W/kg

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.563498 |
| SAR 1g (W/Kg) | 1.881148 |

| Z (mm) | 0.00 | 2.00 | 4.00 | 6.00 | 8.00 | 10.00 | 12.00 | 14.00 | 16.00 |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SAR (W/Kg) | 6.3300 | 3.4981 | 1.7628 | 0.8153 | 0.3636 | 0.1656 | 0.0865 | 0.0594 | 0.0552 |



| 3D screen shot | Hot spot position |
|---|--|
|  |  |

System Performance Check (Body, 5400MHz)

Type: Phone measurement

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

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

Date of measurement: 07/12/2019

Measurement duration: 22 minutes 23 seconds

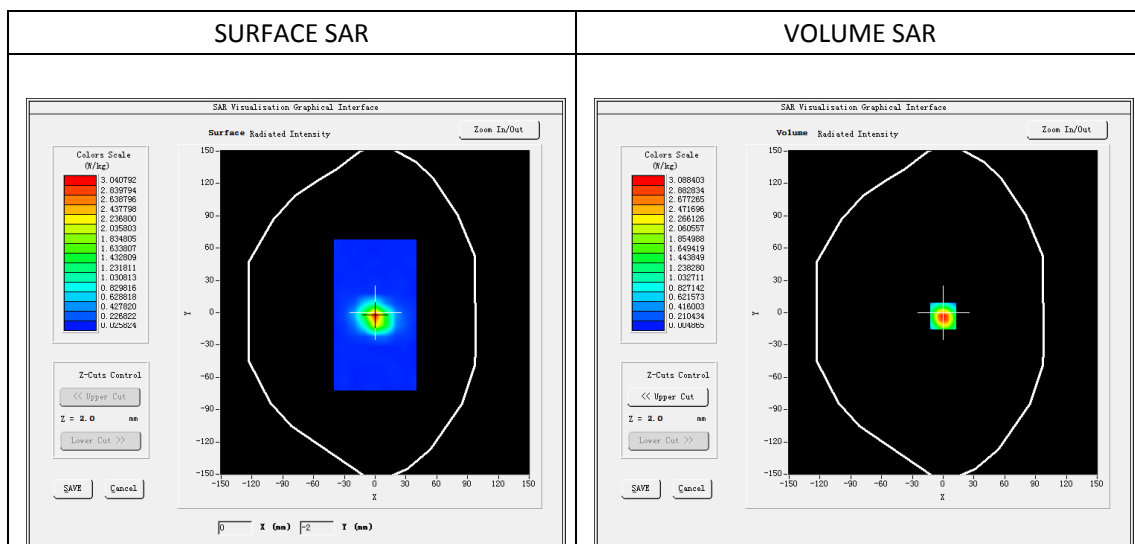
A. Experimental conditions.

| | |
|-----------------|----------------------------|
| Phantom File | dx=8mm dy=8mm |
| Phantom | 7x7x8,dx=4mm dy=4mm dz=2mm |
| Device Position | Dipole |
| Band | 5400MHz |
| Channels | |
| Signal | CW |

B. SAR Measurement Results

Band SAR

| | |
|-----------------------------------|-------------------------|
| E-Field Probe | SATIMO SN_27/15_EPG0261 |
| Frequency (MHz) | 5400 |
| Relative permittivity (real part) | 49.79 |
| Relative permittivity | 18.43 |
| Conductivity (S/m) | 5.53 |
| Power drift (%) | -0.67 |
| Ambient Temperature: | 22.2°C |
| Liquid Temperature: | 22.5°C |
| Crest factor: | 1:1 |
| ConvF: | 2.16 |

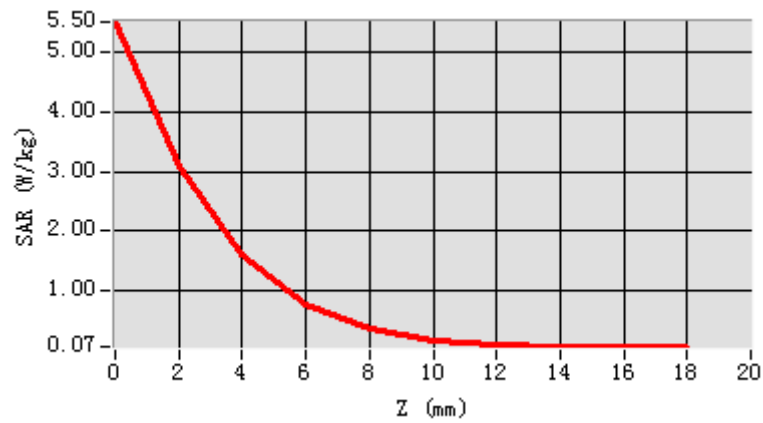


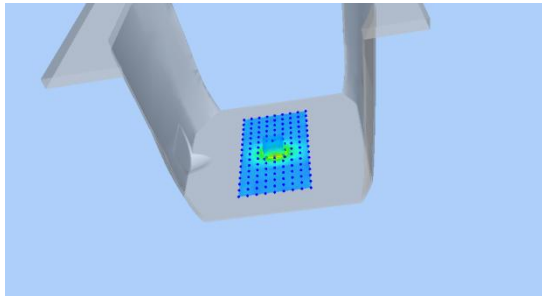
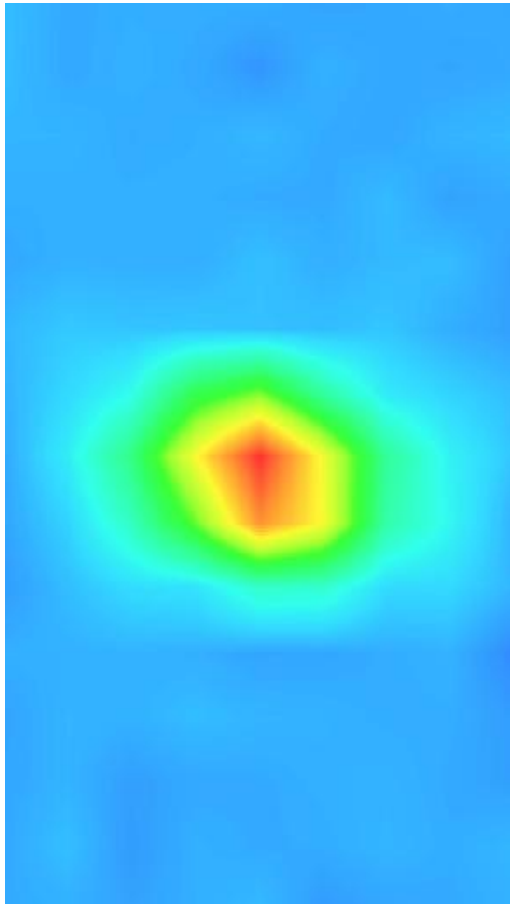
Maximum location: X=0.00, Y=-3.00

SAR Peak: 5.76 W/kg

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.526903 |
| SAR 1g (W/Kg) | 1.678425 |

| Z (mm) | 0.00 | 2.00 | 4.00 | 6.00 | 8.00 | 10.00 | 12.00 | 14.00 | 16.00 |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SAR (W/Kg) | 5.4973 | 3.0884 | 1.5988 | 0.7707 | 0.3650 | 0.1800 | 0.1022 | 0.0736 | 0.0679 |



| 3D screen shot | Hot spot position |
|---|--|
|  |  |

System Performance Check (Head, 5600MHz)

Type: Phone measurement

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

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

Date of measurement: 07/15/2019

Measurement duration: 22 minutes 29 seconds

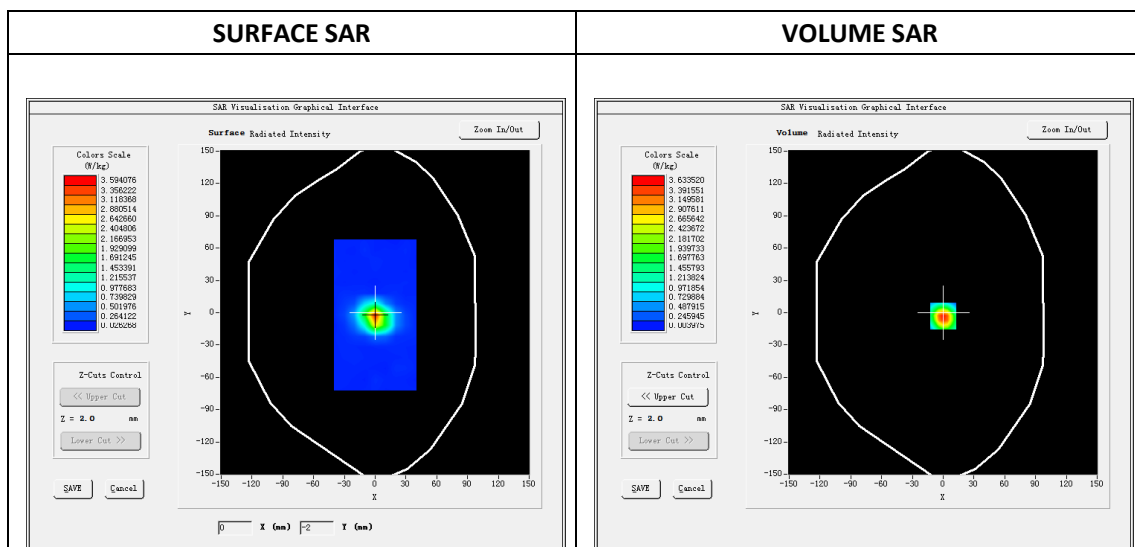
A. Experimental conditions.

| | |
|-----------------|----------------------------|
| Phantom File | dx=8mm dy=8mm |
| Phantom | 7x7x8,dx=4mm dy=4mm dz=2mm |
| Device Position | Dipole |
| Band | 5600MHz |
| Channels | |
| Signal | CW |

B. SAR Measurement Results

Band SAR

| | |
|-----------------------------------|-------------------------|
| E-Field Probe | SATIMO SN_27/15_EPG0261 |
| Frequency (MHz) | 5600 |
| Relative permittivity (real part) | 36.07 |
| Relative permittivity | 16.39 |
| Conductivity (S/m) | 5.10 |
| Power drift (%) | -0.86 |
| Ambient Temperature: | 22.2°C |
| Liquid Temperature: | 22.5°C |
| Crest factor: | 1:1 |
| ConvF: | 2.17 |

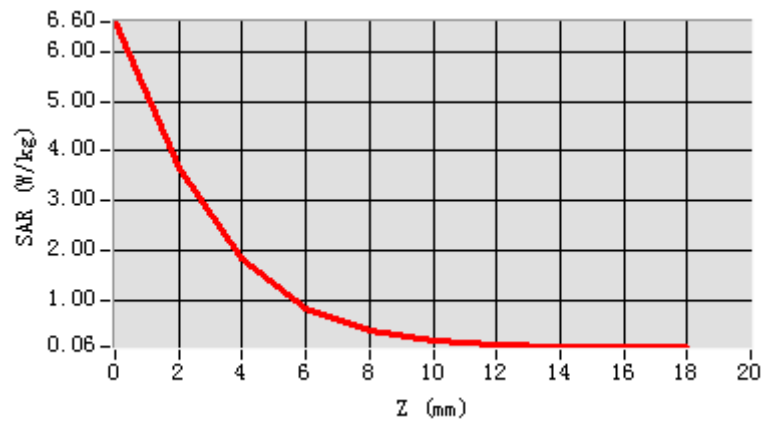


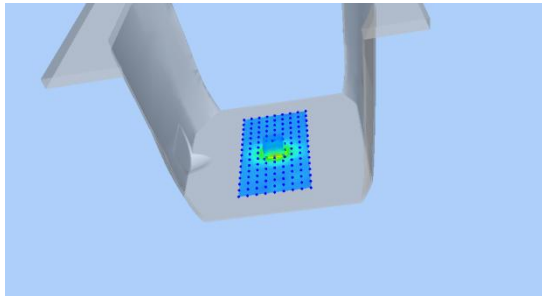
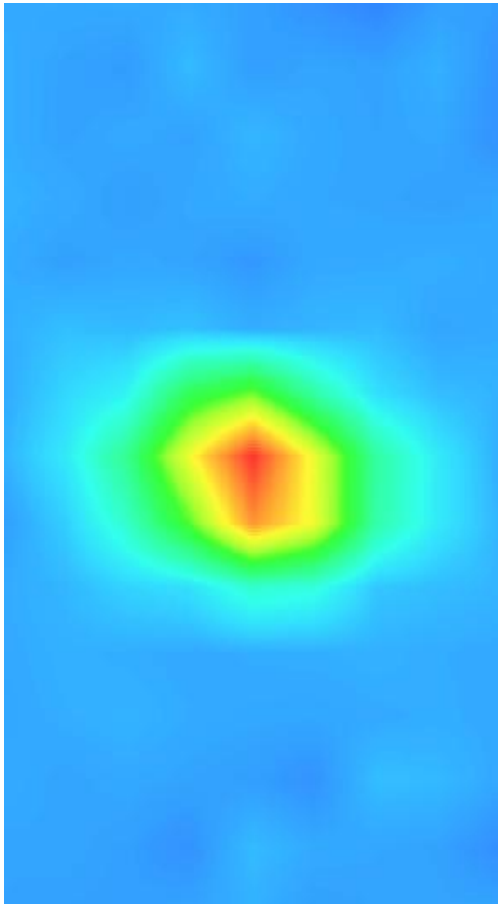
Maximum location: X=0.00, Y=-3.00

SAR Peak: 6.94W/kg

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.588681 |
| SAR 1g (W/Kg) | 1.947867 |

| Z (mm) | 0.00 | 2.00 | 4.00 | 6.00 | 8.00 | 10.00 | 12.00 | 14.00 | 16.00 |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SAR (W/Kg) | 6.5974 | 3.6335 | 1.8213 | 0.8363 | 0.3699 | 0.1674 | 0.0876 | 0.0611 | 0.0582 |



| 3D screen shot | Hot spot position |
|---|--|
|  |  |

System Performance Check (Body, 5600MHz)

Type: Phone measurement

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

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

Date of measurement: 07/15/2019

Measurement duration: 22 minutes 30 seconds

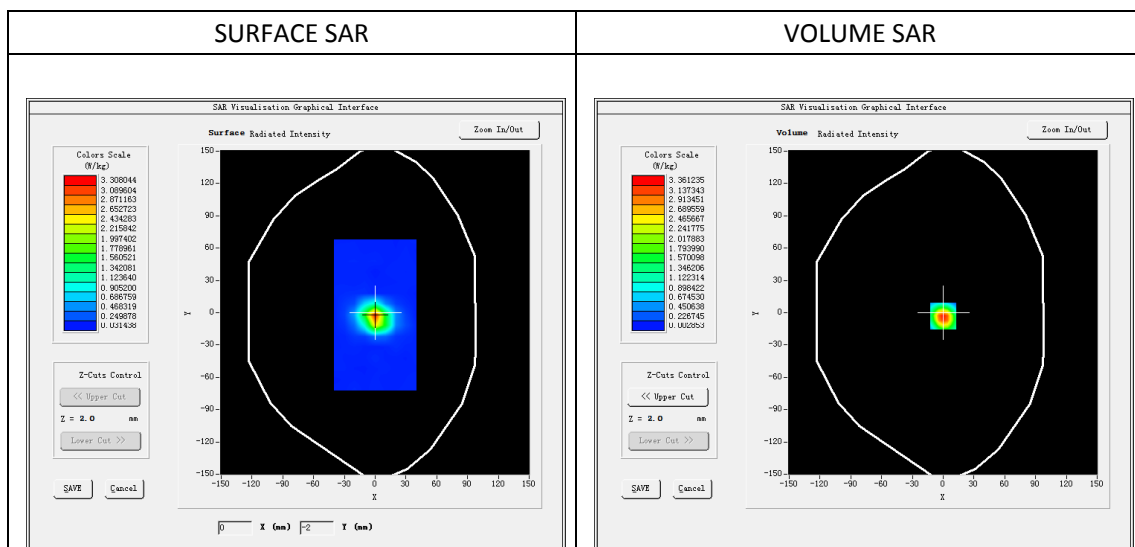
A. Experimental conditions.

| | |
|-----------------|----------------------------|
| Phantom File | dx=8mm dy=8mm |
| Phantom | 7x7x8,dx=4mm dy=4mm dz=2mm |
| Device Position | Dipole |
| Band | 5600MHz |
| Channels | |
| Signal | CW |

B. SAR Measurement Results

Band SAR

| | |
|-----------------------------------|-------------------------|
| E-Field Probe | SATIMO SN_27/15_EPG0261 |
| Frequency (MHz) | 5600 |
| Relative permittivity (real part) | 49.51 |
| Relative permittivity | 18.23 |
| Conductivity (S/m) | 5.67 |
| Power drift (%) | -0.91 |
| Ambient Temperature: | 22.2°C |
| Liquid Temperature: | 22.5°C |
| Crest factor: | 1:1 |
| ConvF: | 2.24 |

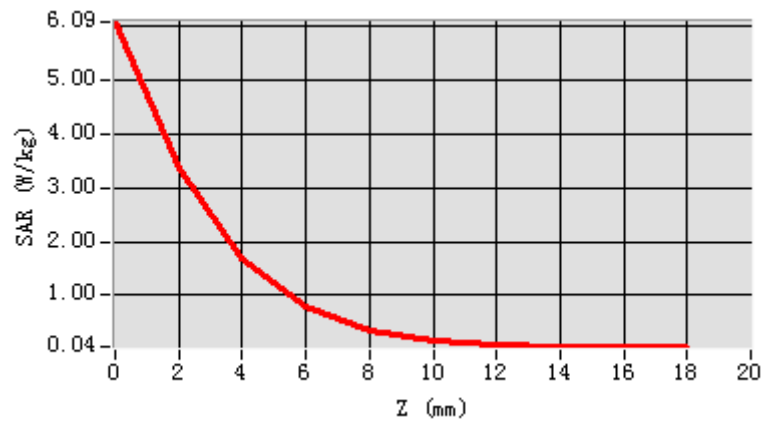


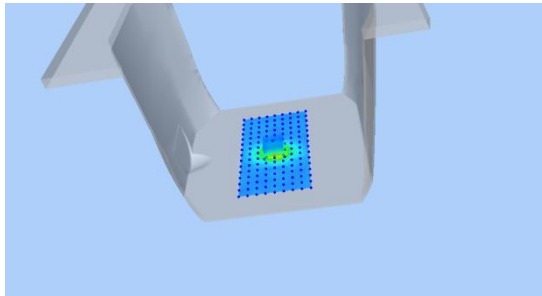
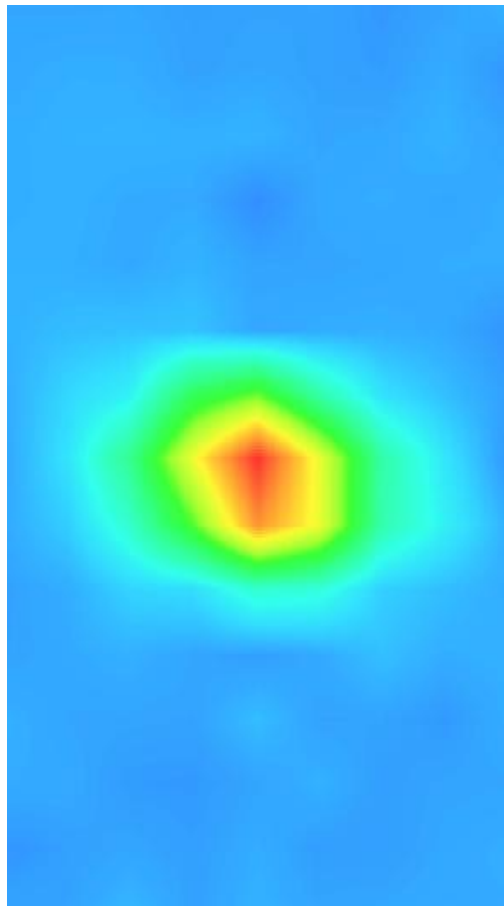
Maximum location: X=0.00, Y=-3.00

SAR Peak: 6.40 W/kg

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.531677 |
| SAR 1g (W/Kg) | 1.790330 |

| Z (mm) | 0.00 | 2.00 | 4.00 | 6.00 | 8.00 | 10.00 | 12.00 | 14.00 | 16.00 |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SAR (W/Kg) | 6.0889 | 3.3612 | 1.6900 | 0.7774 | 0.3424 | 0.1522 | 0.0763 | 0.0498 | 0.0445 |



| 3D screen shot | Hot spot position |
|---|--|
|  |  |

System Performance Check (Head, 5800MHz)

Type: Phone measurement

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

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

Date of measurement: 07/16/2019

Measurement duration: 22 minutes 32 seconds

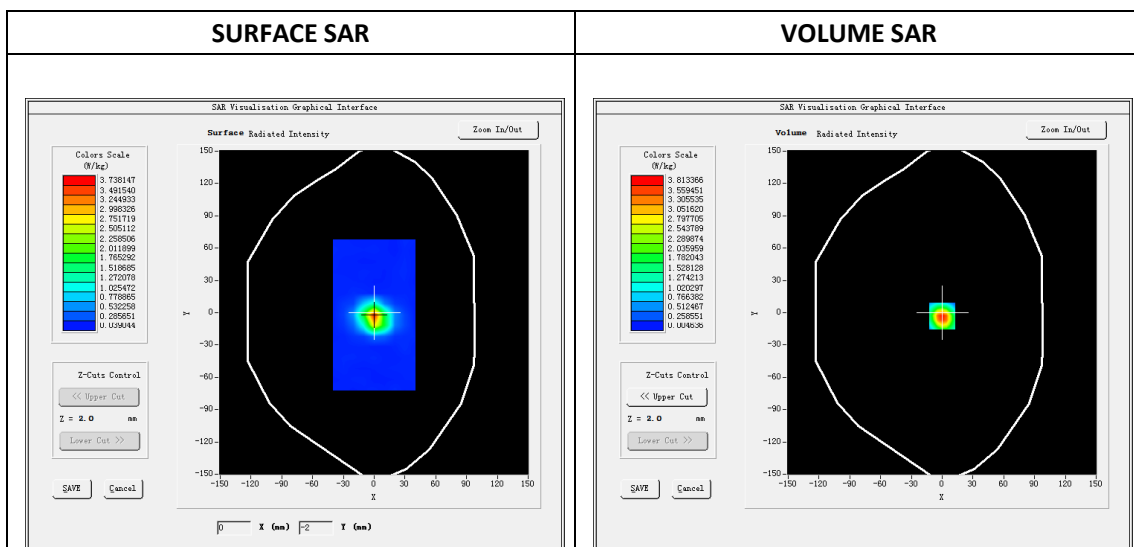
A. Experimental conditions.

| | |
|-----------------|----------------------------|
| Phantom File | dx=8mm dy=8mm |
| Phantom | 7x7x8,dx=4mm dy=4mm dz=2mm |
| Device Position | Dipole |
| Band | 5800MHz |
| Channels | |
| Signal | CW |

B. SAR Measurement Results

Band SAR

| | |
|-----------------------------------|-------------------------|
| E-Field Probe | SATIMO SN_27/15_EPG0261 |
| Frequency (MHz) | 5800 |
| Relative permittivity (real part) | 35.92 |
| Relative permittivity | 16.23 |
| Conductivity (S/m) | 5.23 |
| Power drift (%) | -1.63 |
| Ambient Temperature: | 22.2°C |
| Liquid Temperature: | 22.5°C |
| Crest factor: | 1:1 |
| ConvF: | 2.19 |

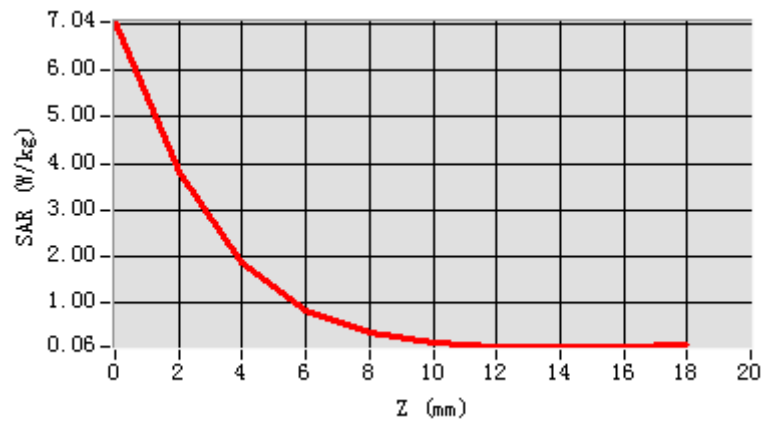


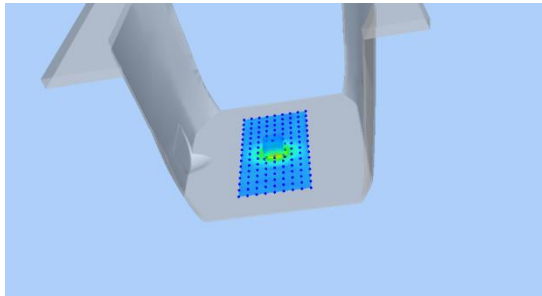
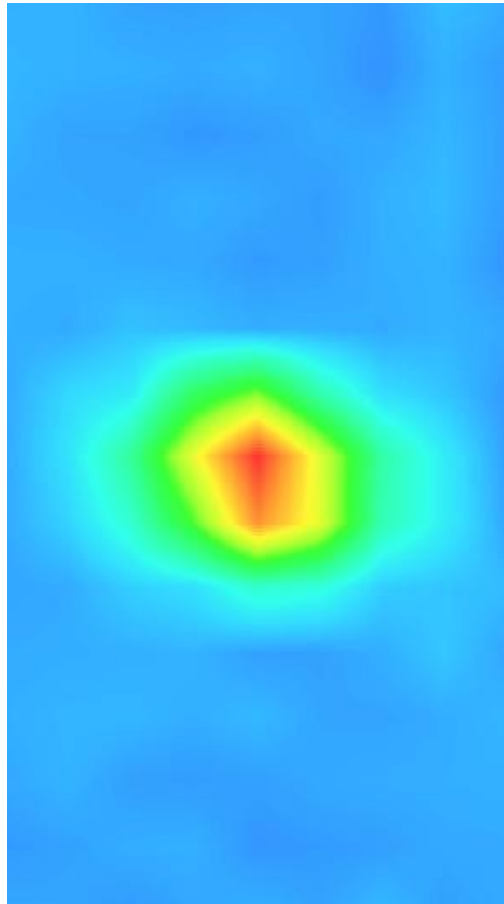
Maximum location: X=0.00, Y=-3.00

SAR Peak: 7.42 W/kg

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.610675 |
| SAR 1g (W/Kg) | 2.036732 |

| Z (mm) | 0.00 | 2.00 | 4.00 | 6.00 | 8.00 | 10.00 | 12.00 | 14.00 | 16.00 |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SAR (W/Kg) | 7.0370 | 3.8134 | 1.8624 | 0.8253 | 0.3504 | 0.1535 | 0.0810 | 0.0612 | 0.0659 |



| 3D screen shot | Hot spot position |
|---|--|
|  |  |

System Performance Check (Body, 5800MHz)

Type: Phone measurement

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

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

Date of measurement: 07/16/2019

Measurement duration: 22 minutes 33 seconds

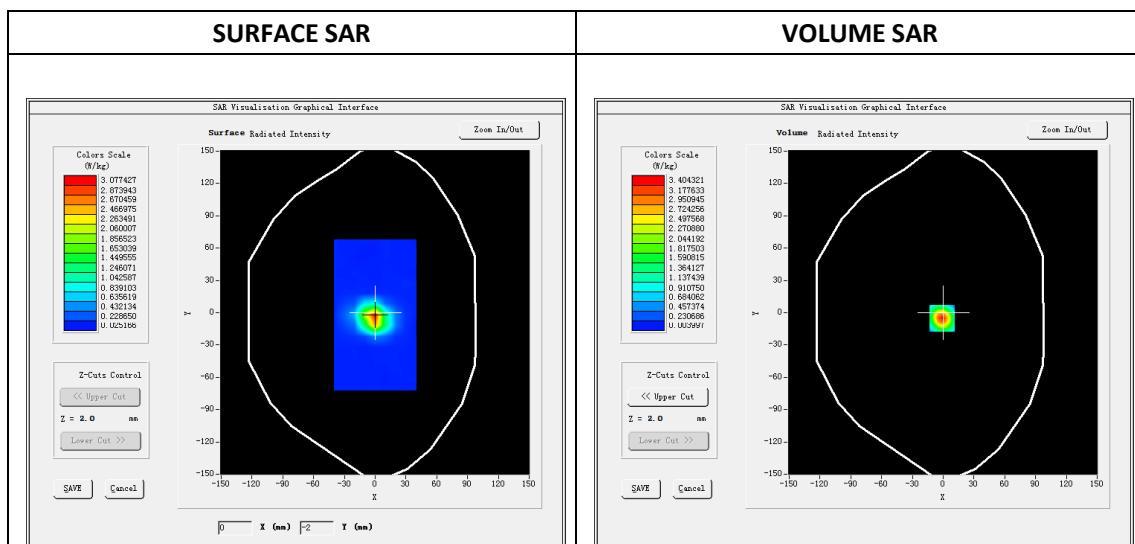
A. Experimental conditions.

| | |
|-----------------|----------------------------|
| Phantom File | dx=8mm dy=8mm |
| Phantom | 7x7x8,dx=4mm dy=4mm dz=2mm |
| Device Position | Dipole |
| Band | 5800MHz |
| Channels | |
| Signal | CW |

B. SAR Measurement Results

Band SAR

| | |
|-----------------------------------|-------------------------|
| E-Field Probe | SATIMO SN_27/15_EPG0261 |
| Frequency (MHz) | 5800 |
| Relative permittivity (real part) | 49.28 |
| Relative permittivity | 18.34 |
| Conductivity (S/m) | 5.91 |
| Power drift (%) | -0.34 |
| Ambient Temperature: | 22.2°C |
| Liquid Temperature: | 22.5°C |
| Crest factor: | 1:1 |
| ConvF: | 2.26 |

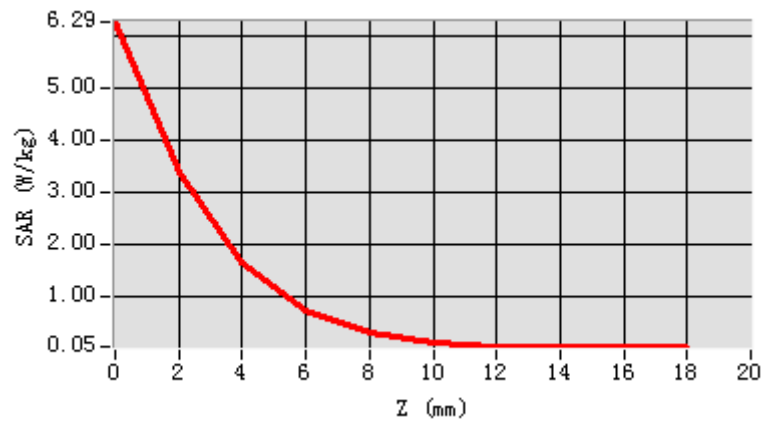


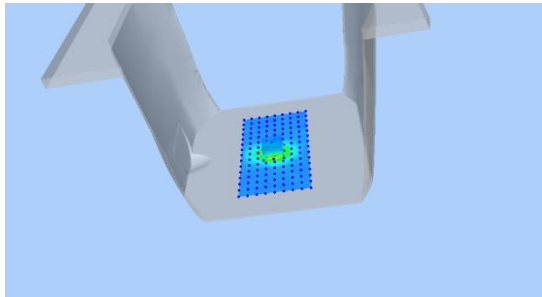
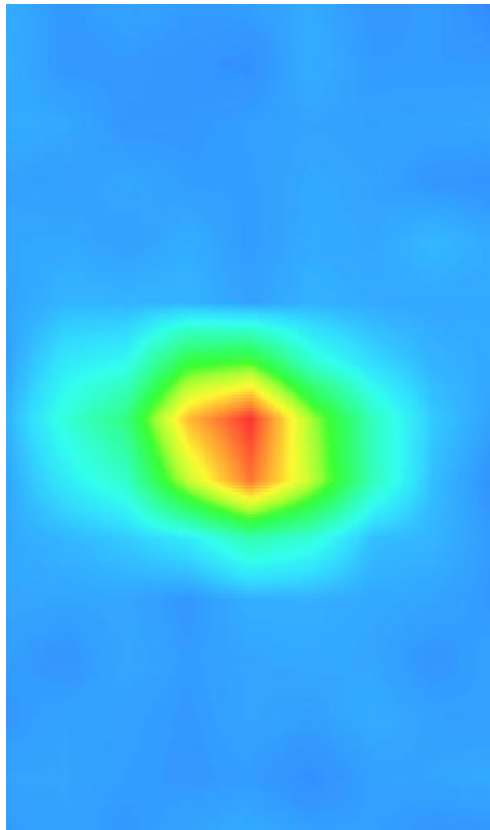
Maximum location: X=-1.00, Y=-5.00

SAR Peak: 6.57 W/kg

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.520494 |
| SAR 1g (W/Kg) | 1.771728 |

| Z (mm) | 0.00 | 2.00 | 4.00 | 6.00 | 8.00 | 10.00 | 12.00 | 14.00 | 16.00 |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SAR (W/Kg) | 6.2850 | 3.4043 | 1.6606 | 0.7329 | 0.3077 | 0.1315 | 0.0666 | 0.0480 | 0.0501 |



| 3D screen shot | Hot spot position |
|---|--|
|  |  |