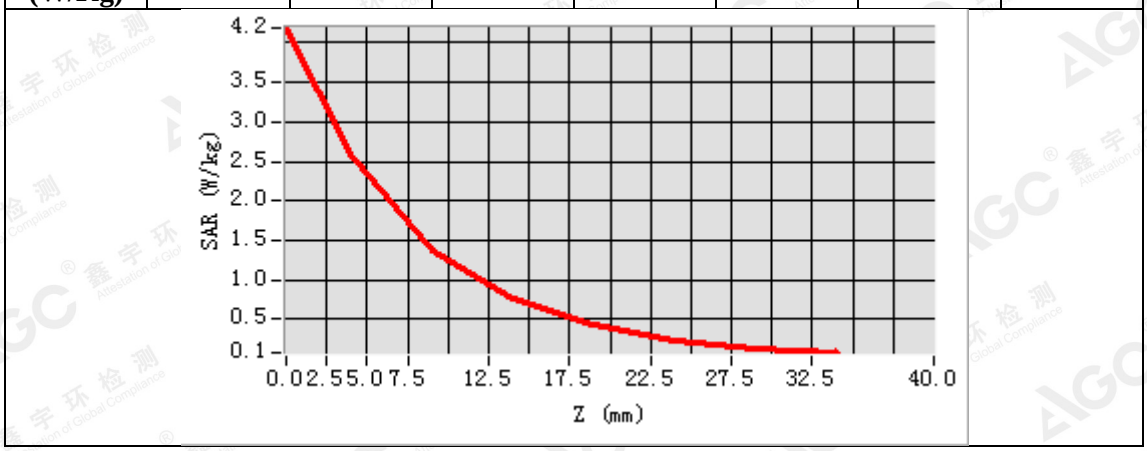
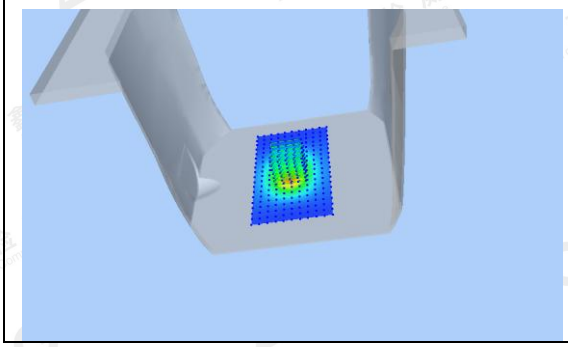
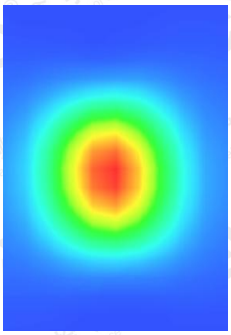
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
|---|---|---|---|---|---|---|---|
| SAR (W/Kg) | 4.2013 | 2.6095 | 1.3926 | 0.7715 | 0.4386 | 0.2522 | 0.1486 |




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

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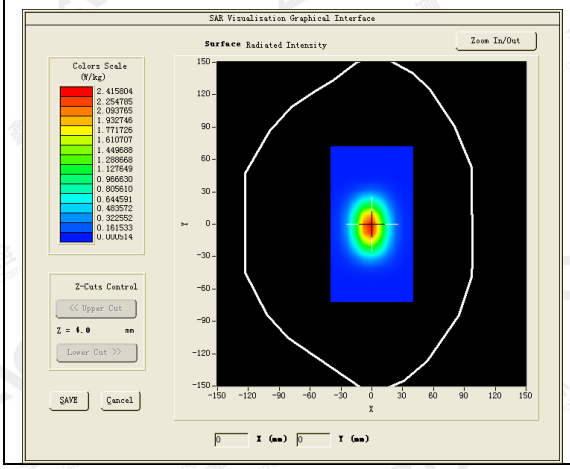
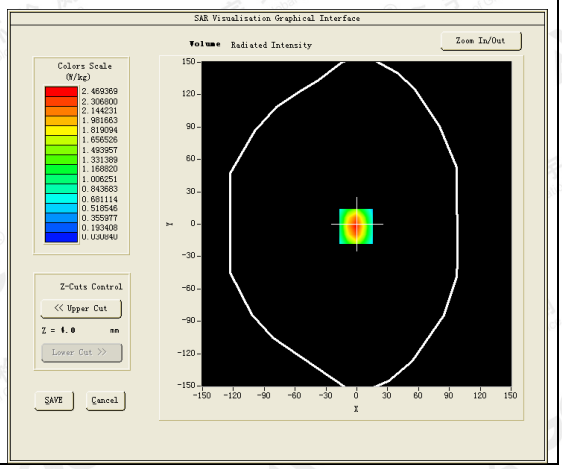
**Test Laboratory: AGC Lab** **Date: June 25,2018**
**System Check Body 1900MHz**
**DUT: Dipole 1900 MHz; Type: SID 1900**
Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1; Conv.F=2.39
Frequency: 1900 MHz; Medium parameters used: f = 1900 MHz; σ=1.52 mho/m; εr =53.22; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):21.8, Liquid temperature (℃): 21.5

SATIMO Configuration:
Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

**Configuration/System Check 1900MHz Body/Area Scan:** Measurement grid: dx=8mm, dy=8mm
**Configuration/System Check 1900MHz Body/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm

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





**Maximum location: X=-1.00, Y=-1.00**
**SAR Peak: 4.00 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 1.192135 |
| **SAR 1g (W/Kg)** | 2.350741 |

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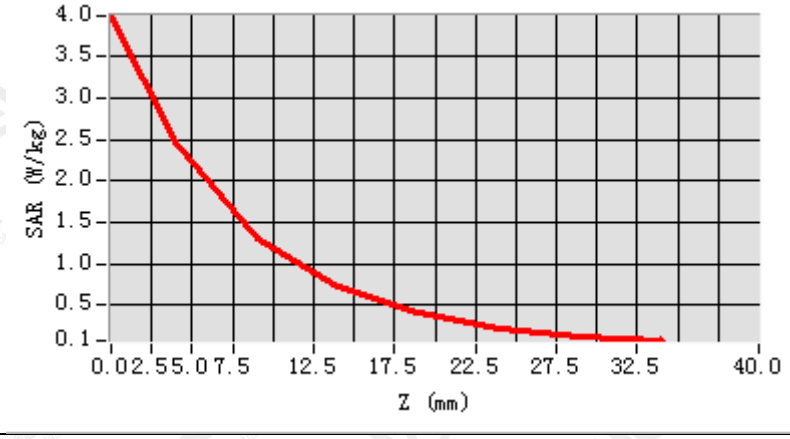
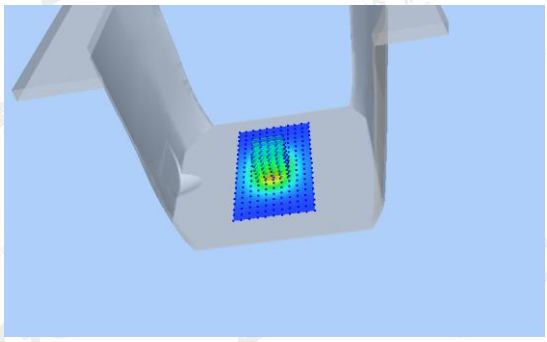
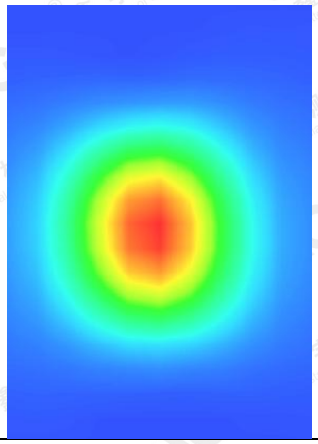
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
|---|---|---|---|---|---|---|---|
| SAR (W/Kg) | 3.9953 | 2.4778 | 1.3263 | 0.7351 | 0.4077 | 0.2305 | 0.1352 |




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

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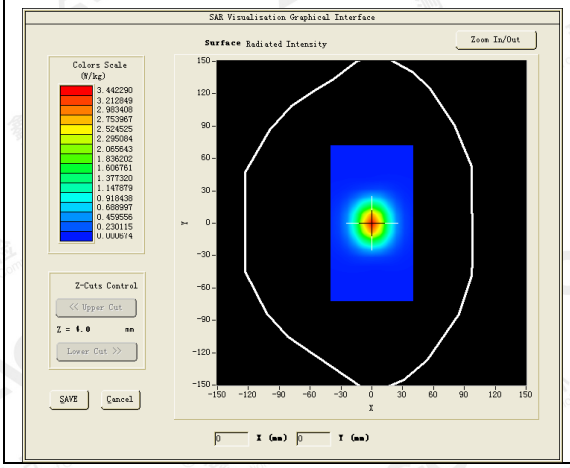
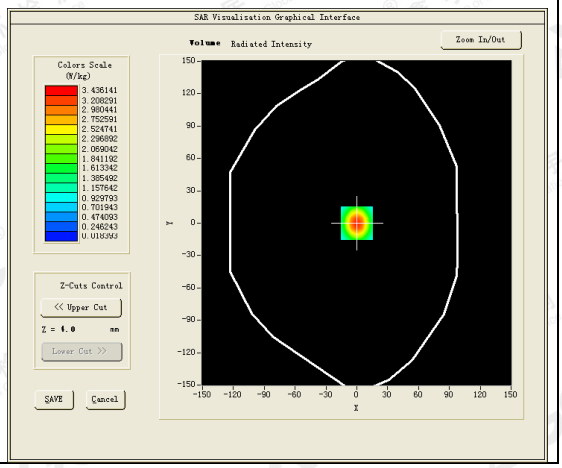
**Test Laboratory: AGC Lab** **Date: June 29,2018**
**System Check Head 2450 MHz**
**DUT: Dipole 2450 MHz Type: SID 2450**
Communication System CW; Communication System Band: D2450 (2450.0 MHz); Duty Cycle: 1:1; Conv.F=2.52
Frequency: 2450 MHz; Medium parameters used: f = 2450 MHz; σ=1.77 mho/m; εr =39.26; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):21.9, Liquid temperature (℃): 21.3

SATIMO Configuration
- Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

**Configuration/System Check 2450MHz Head/Area Scan:** Measurement grid: dx=8mm, dy=8mm
**Configuration/System Check 2450MHz Head/Zoom Scan:** Measurement grid: dx=5mm,dy=5mm, dz=5mm

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



**Maximum location: X=1.00, Y=1.00**
**SAR Peak: 5.95 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 1.499452 |
| **SAR 1g (W/Kg)** | 3.231578 |

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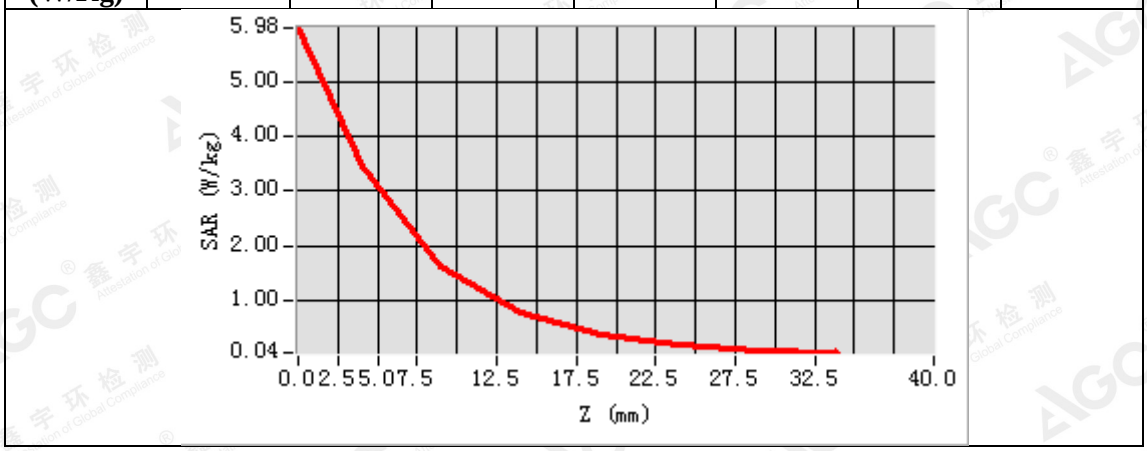
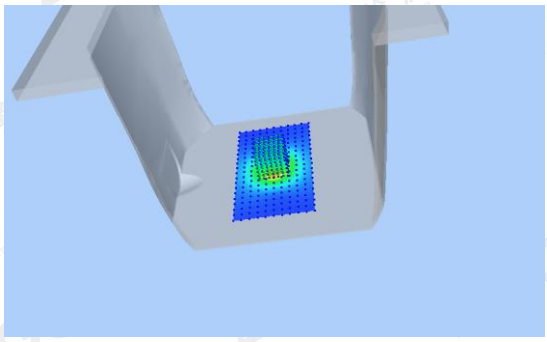
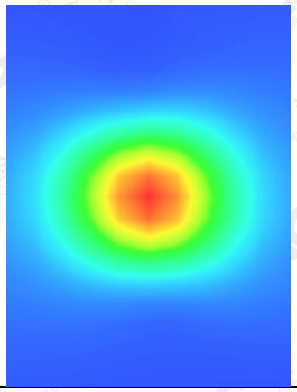
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
|---|---|---|---|---|---|---|---|
| SAR (W/Kg) | 5.9844 | 3.4402 | 1.6056 | 0.7711 | 0.3726 | 0.1833 | 0.0912 |




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

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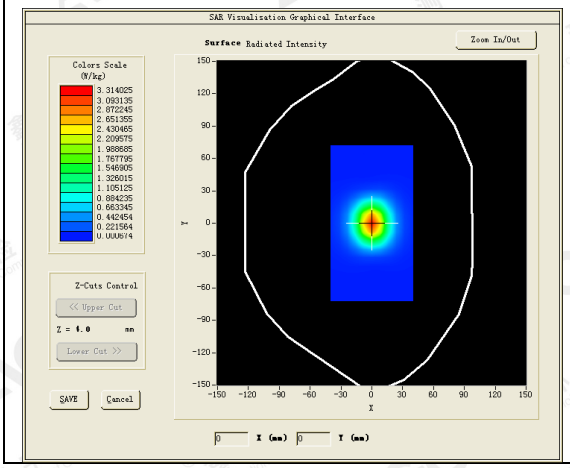
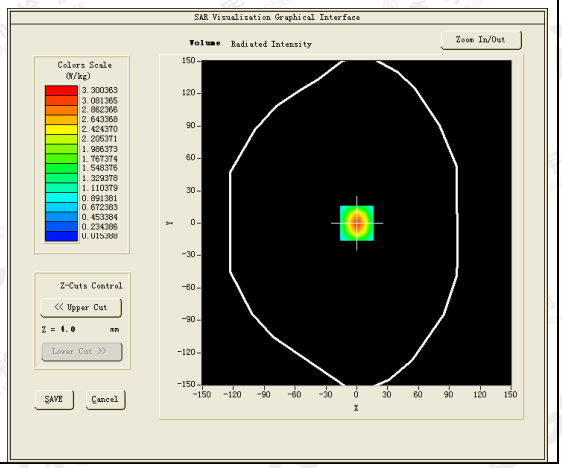
**Test Laboratory: AGC Lab** **Date: June 29,2018**
**System Check Body 2450 MHz**
**DUT: Dipole 2450 MHz Type: SID 2450**
Communication System CW; Communication System Band: D2450 (2450.0 MHz); Duty Cycle: 1:1; Conv.F=2.58
Frequency: 2450 MHz; Medium parameters used: f = 2450 MHz; σ=1.92 mho/m; εr =53.59; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):21.9, Liquid temperature (℃): 21.5

SATIMO Configuration
- Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

**Configuration/System Check 2450MHz Body/Area Scan:** Measurement grid: dx=8mm, dy=8mm
**Configuration/System Check 2450MHz Body/Zoom Scan:** Measurement grid: dx=5mm,dy=5mm, dz=5mm

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



**Maximum location: X=0.00, Y=0.00**
**SAR Peak: 5.70 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 1.435126 |
| **SAR 1g (W/Kg)** | 3.117495 |

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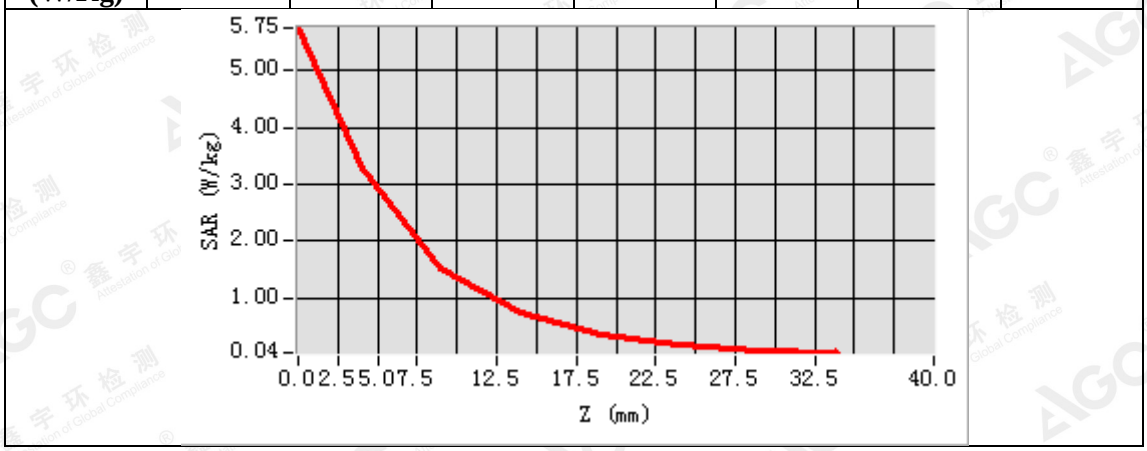
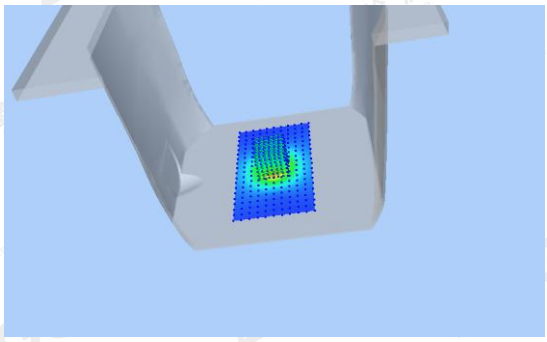
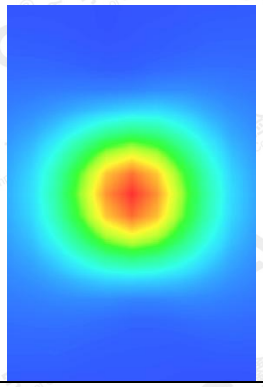
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
|---|---|---|---|---|---|---|---|
| SAR (W/Kg) | 5.7463 | 3.3052 | 1.5395 | 0.7366 | 0.3522 | 0.1719 | 0.0880 |




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

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# APPENDIX B. SAR MEASUREMENT DATA

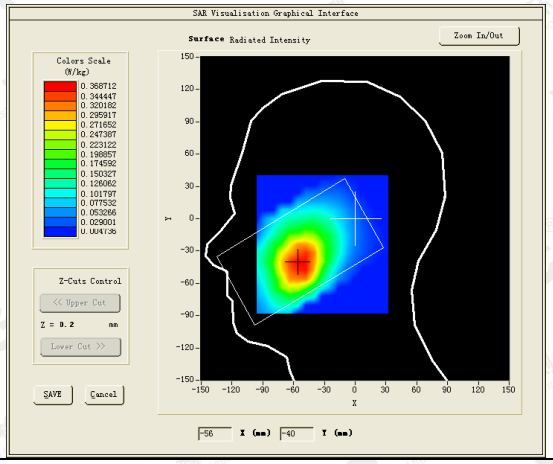
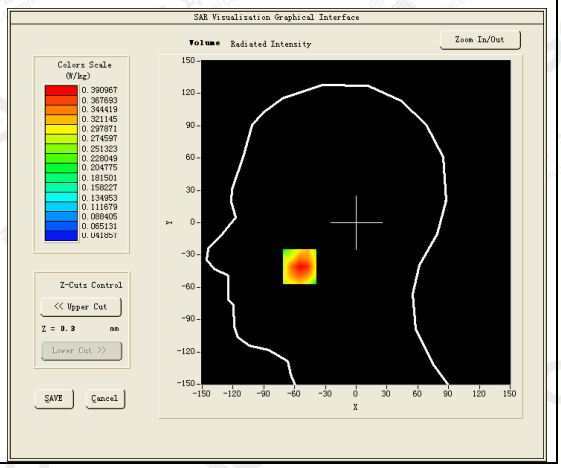
**Test Laboratory: AGC Lab** **Date: July 05,2018**
**GSM 850 Mid- Touch-Right <SIM 1>**
**DUT: Smartphone; Type: VOLT_5XL**

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Conv.F=1.74; Frequency: 836.6 MHz; Medium parameters used: f = 835 MHz; σ= 0.91 mho/m; εr = 41.77; ρ= 1000 kg/m³ ;
Phantom section: Right Section
Ambient temperature (℃): 22.1, Liquid temperature (℃): 21.2

SATIMO Configuration:
- Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

**Configuration/GSM 850 Mid-Touch-Right/Area Scan:** Measurement grid: dx=8mm, dy=8mm
**Configuration/GSM 850 Mid-Touch-Right/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

| | |
|---|---|
| **Area Scan** | sam_direct_droit2_surf8mm.txt |
| **ZoomScan** | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| **Phantom** | Right head |
| **Device Position** | Cheek |
| **Band** | GSM 850 |
| **Channels** | Middle |
| **Signal** | TDMA (Crest factor: 8.0) |

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





**Maximum location: X=-55.00, Y=-41.00**
**SAR Peak: 0.51 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.261263 |
| **SAR 1g (W/Kg)** | 0.372337 |

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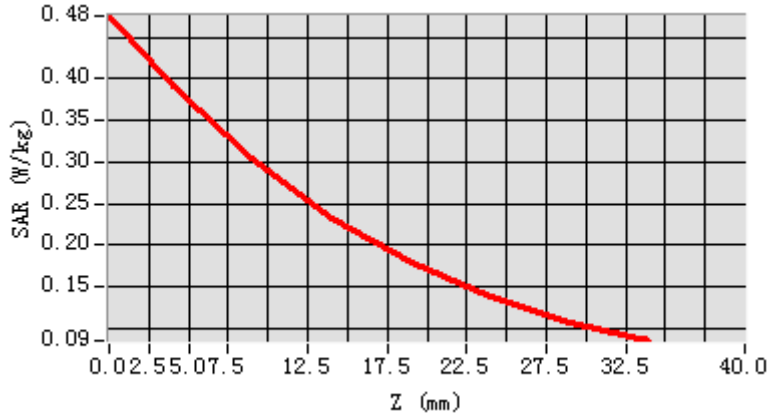
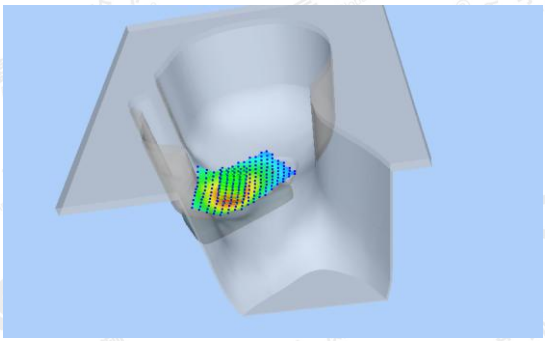
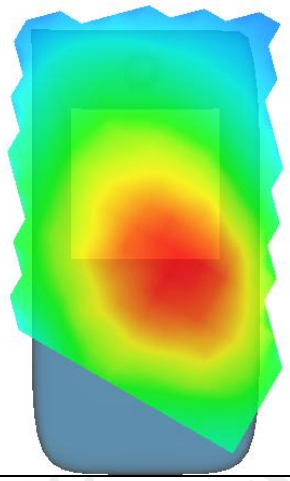
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
|---|---|---|---|---|---|---|---|
| SAR (W/Kg) | 0.4758 | 0.3910 | 0.3037 | 0.2317 | 0.1802 | 0.1373 | 0.1080 |




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

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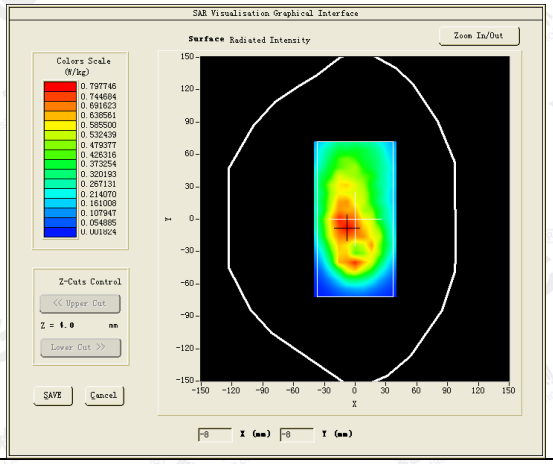
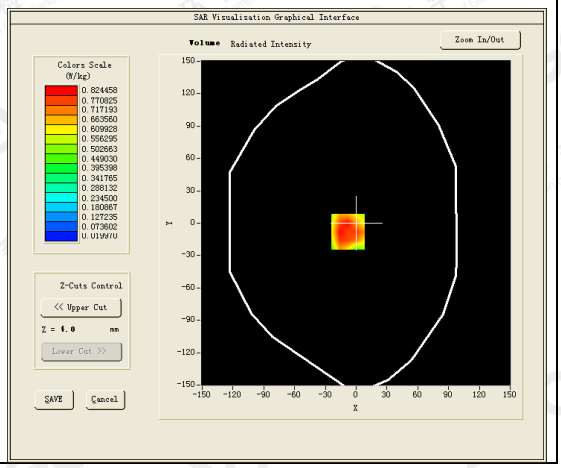
**Test Laboratory: AGC Lab** **Date: July 05,2018**
**GSM 850 High- Body- Back (MS)<SIM 1>**
**DUT: Smartphone; Type: VOLT_5XL**

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Conv.F=1.81; Frequency: 848.8 MHz; Medium parameters used: f = 835 MHz; σ= 0.98 mho/m; εr = 53.57; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 22.1, Liquid temperature (℃): 21.5

SATIMO Configuration:
- Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

**Configuration/GSM 850 High-Body-Back/Area Scan:** Measurement grid: dx=8mm, dy=8mm
**Configuration/GSM 850 High-Body-Back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

| | |
|---|---|
| **Area Scan** | sam_direct_droit2_surf8mm.txt |
| **ZoomScan** | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| **Phantom** | Validation plane |
| **Device Position** | Body Back |
| **Band** | GSM 850 |
| **Channels** | High |
| **Signal** | TDMA (Crest factor: 8.0) |

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





**Maximum location: X=-8.00, Y=-8.00**
**SAR Peak: 1.21 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.512896 |
| **SAR 1g (W/Kg)** | 0.797835 |

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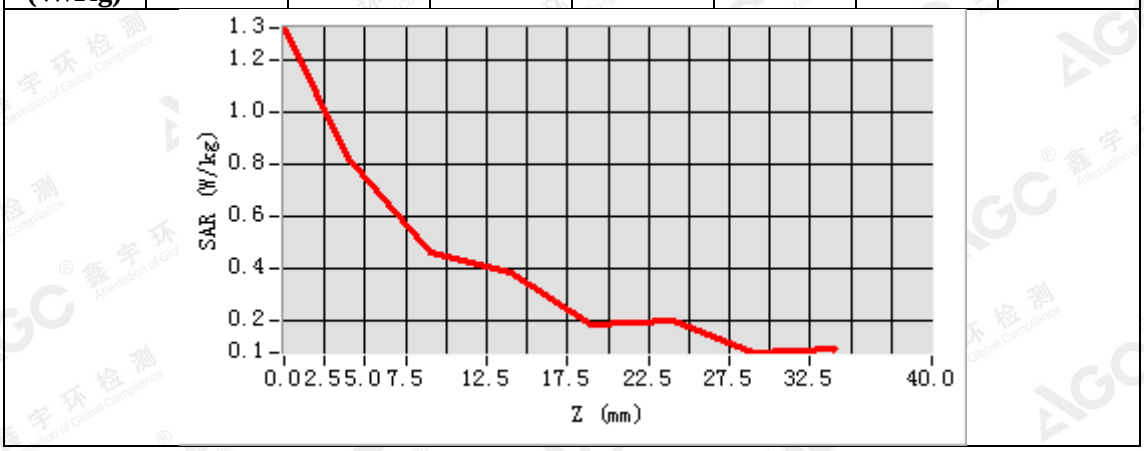
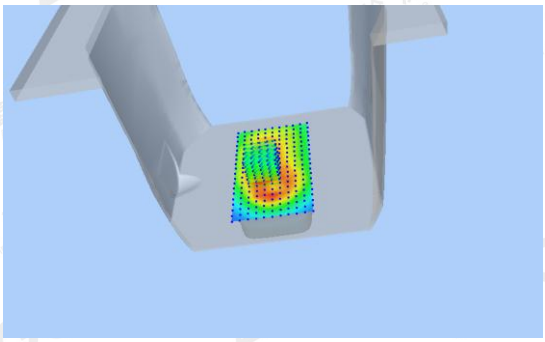
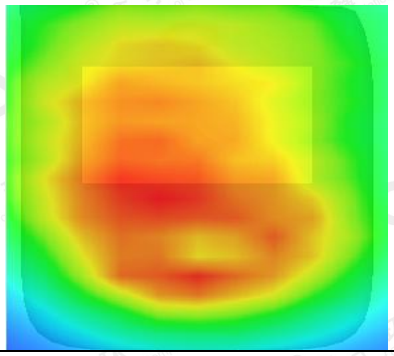
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
|---|---|---|---|---|---|---|---|
| SAR (W/Kg) | 1.3247 | 0.8245 | 0.4638 | 0.3824 | 0.1790 | 0.1943 | 0.0745 |




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

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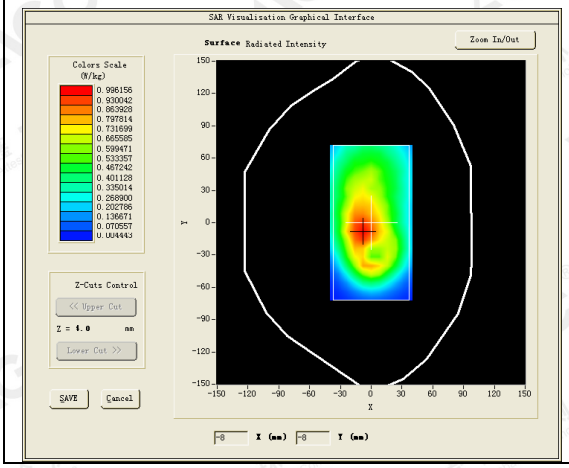
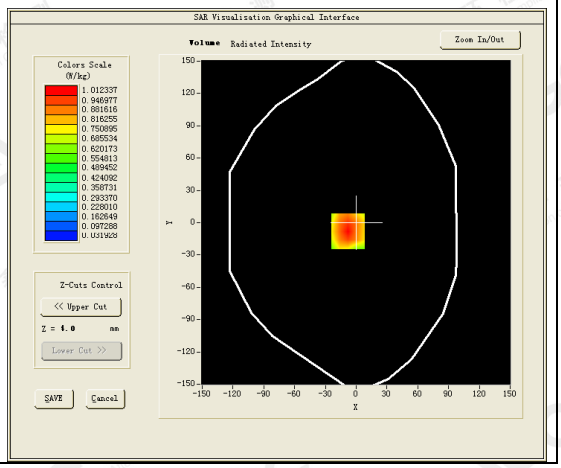
**Test Laboratory: AGC Lab** **Date: July 05,2018**
**GPRS 850 Low- Body- Back (3up)**
**DUT: Smartphone; Type: VOLT_5XL**

Communication System: GPRS-3 Slot; Communication System Band: GSM 850; Duty Cycle: 1:2.7; Conv.F=1.81; Frequency: 824.2 MHz; Medium parameters used: f = 835 MHz; σ= 0.93 mho/m; εr = 56.38; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 22.1, Liquid temperature (℃): 21.5

SATIMO Configuration:
- Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

**Configuration/GPRS 850 Low-Body-Back/Area Scan:** Measurement grid: dx=8mm, dy=8mm
**Configuration/GPRS 850 Low-Body-Back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

| | |
|---|---|
| **Area Scan** | sam_direct_droit2_surf8mm.txt |
| **Zoom Scan** | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| **Phantom** | Validation plane |
| **Device Position** | Body Back |
| **Band** | GSM 850 |
| **Channels** | Low |
| **Signal** | TDMA (Crest factor: 2.7) |

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



**Maximum location: X=-8.00, Y=-8.00**
**SAR Peak: 1.44 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.657952 |
| **SAR 1g (W/Kg)** | 0.987385 |

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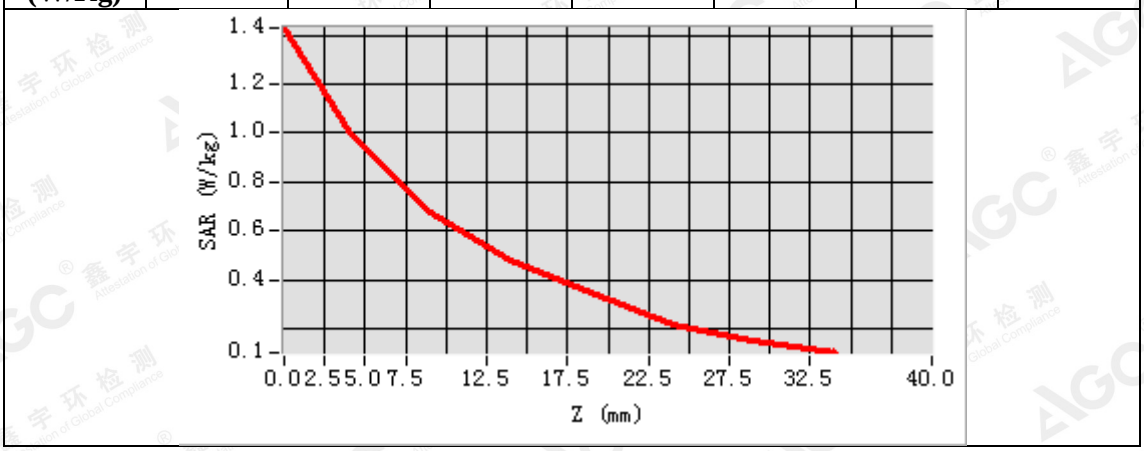
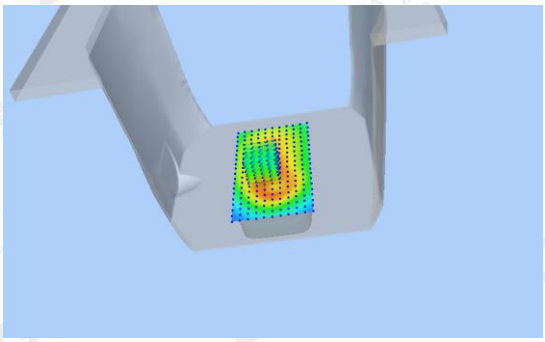
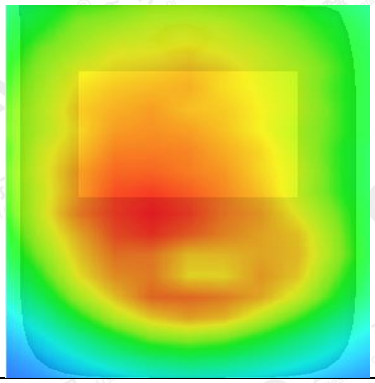
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
|---|---|---|---|---|---|---|---|
| SAR (W/Kg) | 1.4297 | 1.0123 | 0.6758 | 0.4793 | 0.3447 | 0.2198 | 0.1533 |




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

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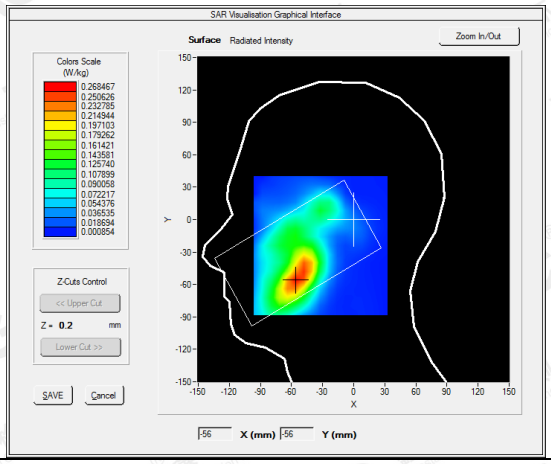
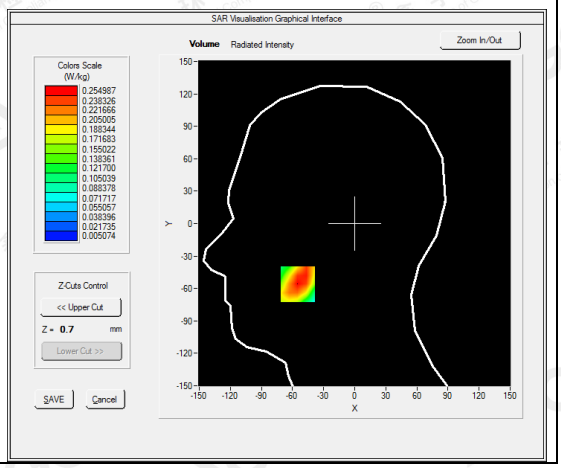
**Test Laboratory: AGC Lab** **Date: July 07,2018**
**PCS 1900 Mid-Touch- Left <SIM 1>**
**DUT: Smartphone; Type: VOLT_5XL**

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=2.32; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; σ= 1.39 mho/m; εr =40.57; ρ= 1000 kg/m³ ;
Phantom section: Left Section
Ambient temperature (℃): 22.1, Liquid temperature (℃): 21.7

SATIMO Configuration:
- Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

**Configuration/PCS1900 Mid-Touch-Left/Area Scan:** Measurement grid: dx=8mm, dy=8mm
**Configuration/PCS1900 Mid-Touch-Left/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

| | |
|---|---|
| **Area Scan** | sam_direct_droit2_surf8mm.txt |
| **ZoomScan** | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| **Phantom** | Left head |
| **Device Position** | Cheek |
| **Band** | PCS 1900 |
| **Channels** | Middle |
| **Signal** | TDMA (Crest factor: 8.0) |

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



**Maximum location: X=-55.00, Y=-56.00**
**SAR Peak: 0.39 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.145709 |
| **SAR 1g (W/Kg)** | 0.246987 |

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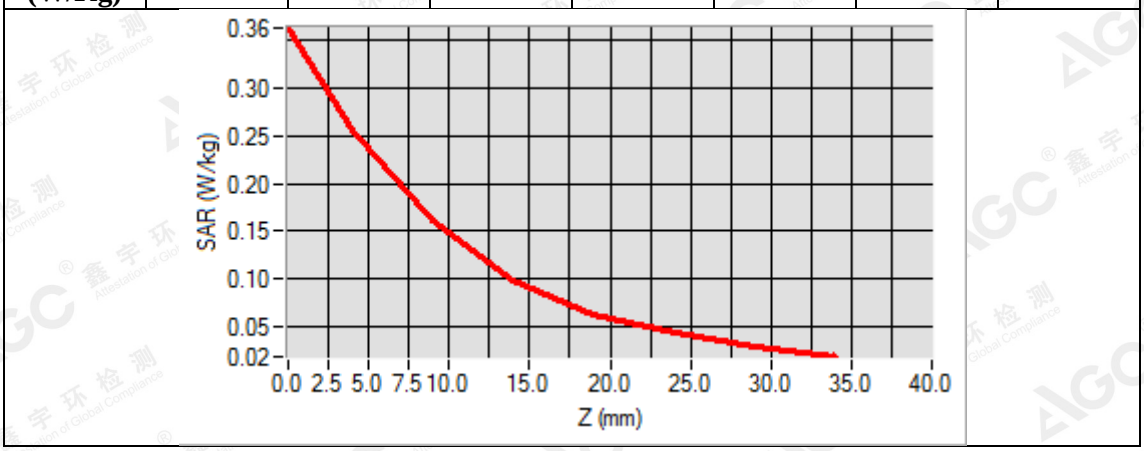
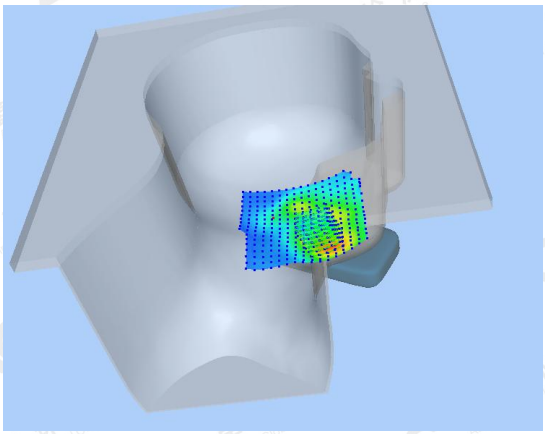
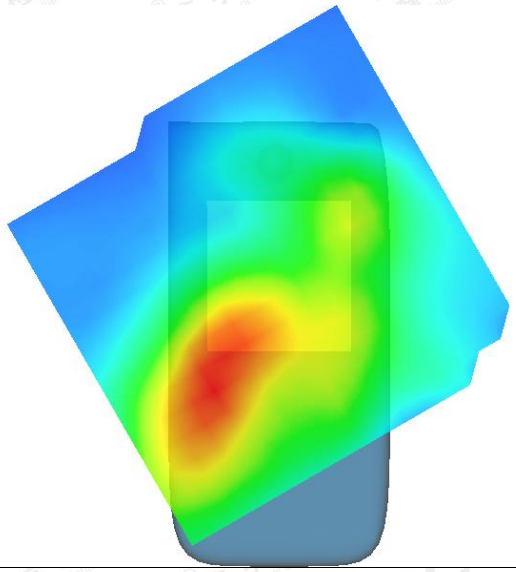
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
|---|---|---|---|---|---|---|---|
| SAR (W/Kg) | 0.3631 | 0.2550 | 0.1615 | 0.0981 | 0.0630 | 0.0431 | 0.0278 |




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

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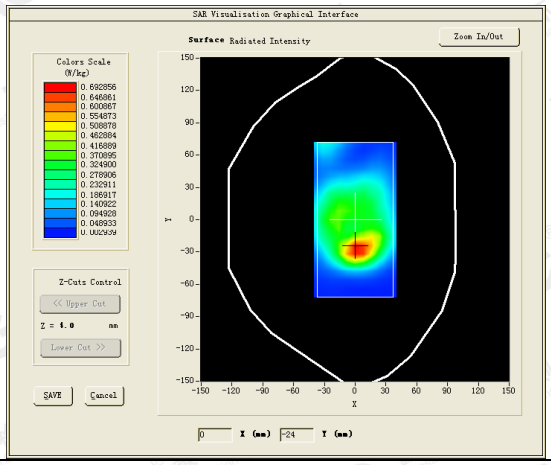
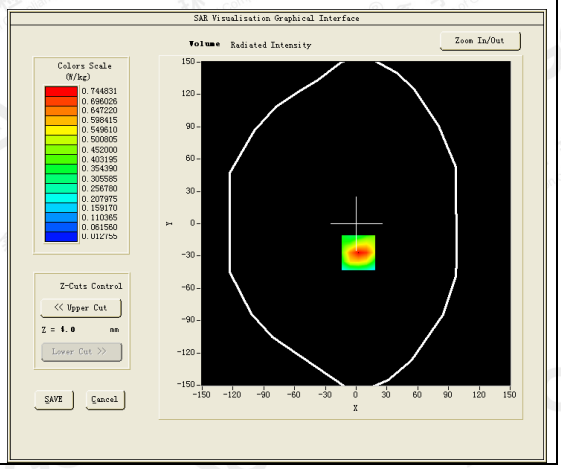
**Test Laboratory: AGC Lab** **Date: July 04,2018**
**PCS 1900 Mid-Body-Back (MS)<SIM 1>**
**DUT: Smartphone; Type: VOLT_5XL**

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=2.39;
Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; σ= 1.50 mho/m; εr =54.07; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 22.3, Liquid temperature (℃): 21.9

SATIMO Configuration:
- Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

**Configuration/PCS1900 Mid-Body-Back/Area Scan:** Measurement grid: dx=8mm, dy=8mm
**Configuration/PCS1900 Mid-Body-Back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

| | |
|---|---|
| **Area Scan** | sam_direct_droit2_surf8mm.txt |
| **ZoomScan** | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| **Phantom** | Validation plane |
| **Device Position** | Body Back |
| **Band** | PCS 1900 |
| **Channels** | Middle |
| **Signal** | TDMA (Crest factor: 8.0) |

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





**Maximum location: X=2.00, Y=-27.00**
**SAR Peak: 1.18 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.365063 |
| **SAR 1g (W/Kg)** | 0.696706 |

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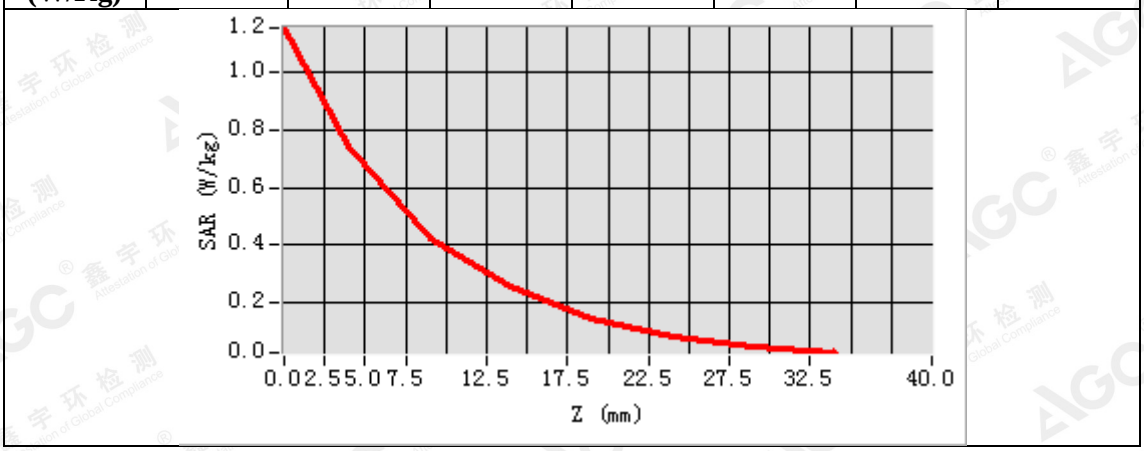
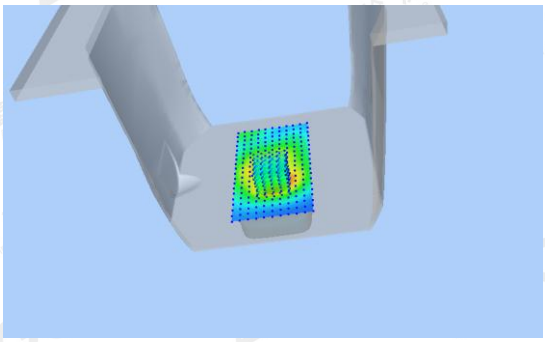
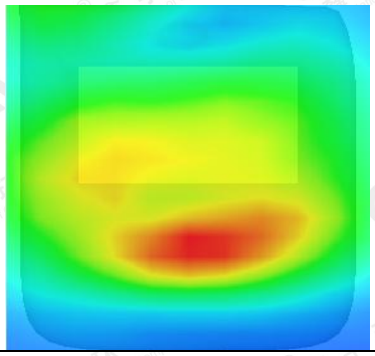
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
|---|---|---|---|---|---|---|---|
| SAR (W/Kg) | 1.1529 | 0.7448 | 0.4209 | 0.2578 | 0.1441 | 0.0845 | 0.0480 |




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

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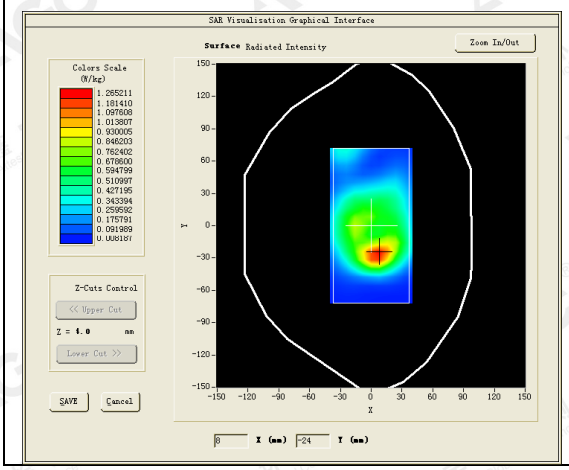
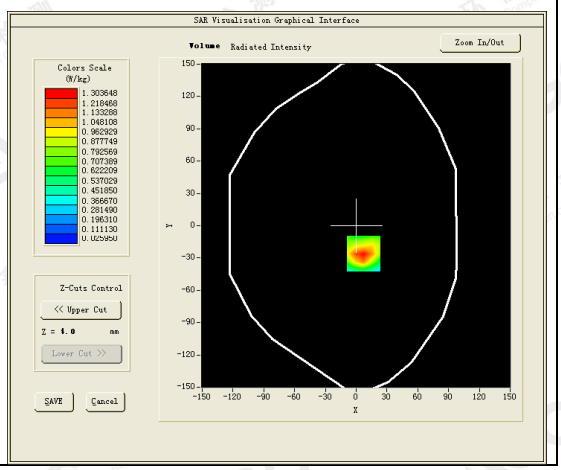
**Test Laboratory: AGC Lab** **Date: July 04,2018**
**GPRS 1900 Low-Body-Back (4up)-earphone**
**DUT: Smartphone; Type: VOLT_5XL**

Communication System: GPRS-4Slot; Communication System Band: PCS 1900; Duty Cycle: 1:2.1; Conv.F=2.39; Frequency: 1850.2 MHz; Medium parameters used: f = 1900 MHz; σ= 1.46 mho/m; εr =55.11; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 22.3, Liquid temperature (℃): 21.9

SATIMO Configuration:
- Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

**Configuration/GPRS1900 Low-Body-Back/Area Scan:** Measurement grid: dx=8mm, dy=8mm
**Configuration/GPRS1900 Low-Body-Back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

| | |
|---|---|
| **Area Scan** | sam_direct_droit2_surf8mm.txt |
| **Zoom Scan** | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| **Phantom** | Validation plane |
| **Device Position** | Body Back |
| **Band** | PCS 1900 |
| **Channels** | Low |
| **Signal** | TDMA (Crest factor: 2.0) |

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





**Maximum location: X=7.00, Y=-26.00**
**SAR Peak: 2.06 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.658487 |
| **SAR 1g (W/Kg)** | 1.240272 |

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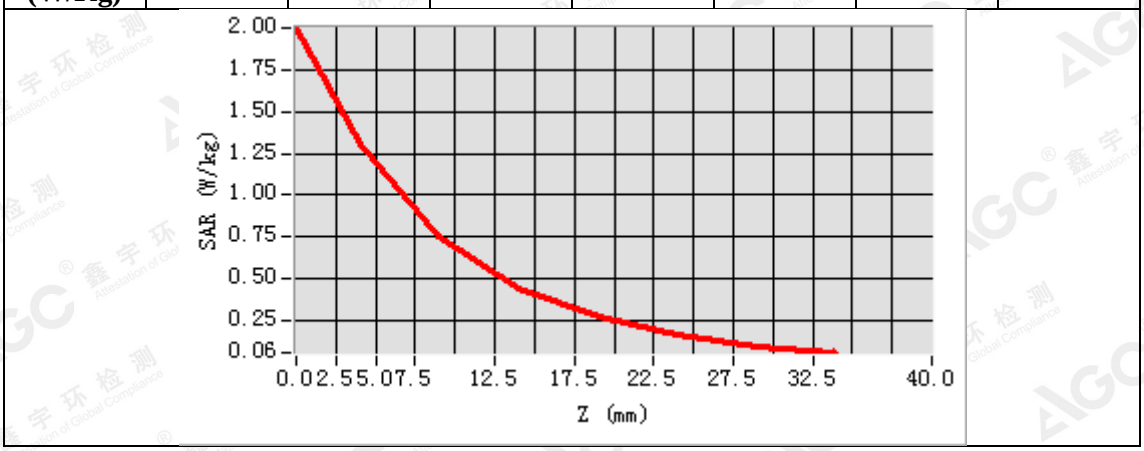
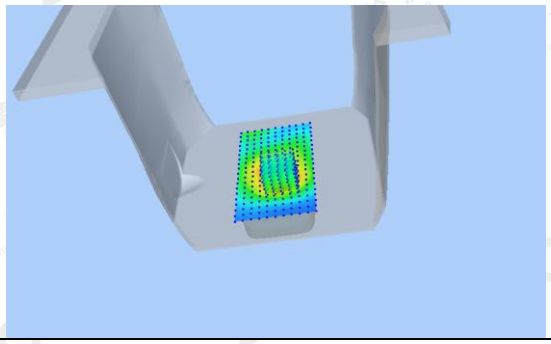
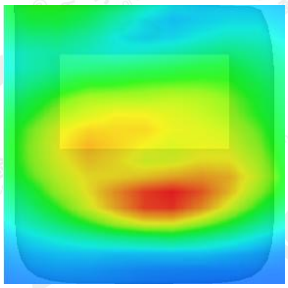
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
|---|---|---|---|---|---|---|---|
| SAR (W/Kg) | 1.9991 | 1.3036 | 0.7595 | 0.4464 | 0.2808 | 0.1668 | 0.1010 |




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

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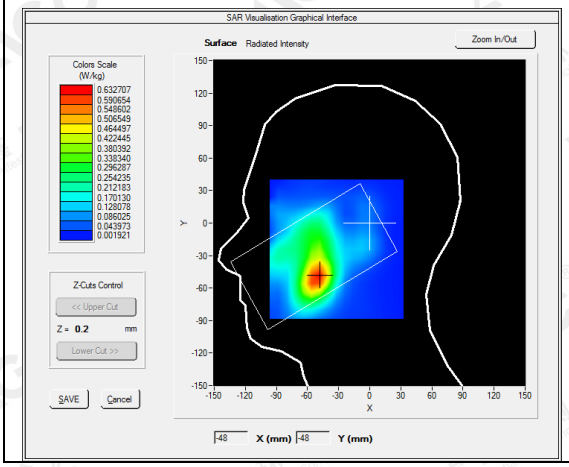
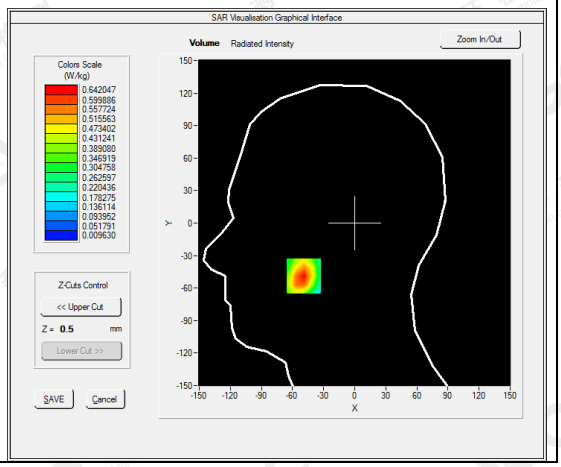
**Test Laboratory: AGC Lab** **Date: July 07,2018**
**WCDMA Band II Mid-Touch-Right (RMC)**
**DUT: Smartphone; Type: VOLT_5XL**

Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=2.32;
Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; σ= 1.39 mho/m; εr =40.57; ρ= 1000 kg/m³ ;
Phantom section: Right Section
Ambient temperature (℃): 22.1, Liquid temperature (℃): 21.7

SATIMO Configuration:
- Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

**Configuration/ WCDMA Band II Mid-Touch-Right/Area Scan:** Measurement grid: dx=8mm, dy=8mm
**Configuration/ WCDMA Band II Mid-Touch-Right/Zoom Scan:** Measurement grid:dx=8mm,dy=8mm,dz=5mm;

| | |
|---|---|
| **Area Scan** | sam_direct_droit2_surf8mm.txt |
| **ZoomScan** | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| **Phantom** | Right head |
| **Device Position** | Cheek |
| **Band** | WCDMA Band II |
| **Channels** | Middle |
| **Signal** | CDMA (Crest factor: 1.0) |

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





**Maximum location: X=-49.00, Y=-49.00**
**SAR Peak: 0.94 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.351463 |
| **SAR 1g (W/Kg)** | 0.612004 |

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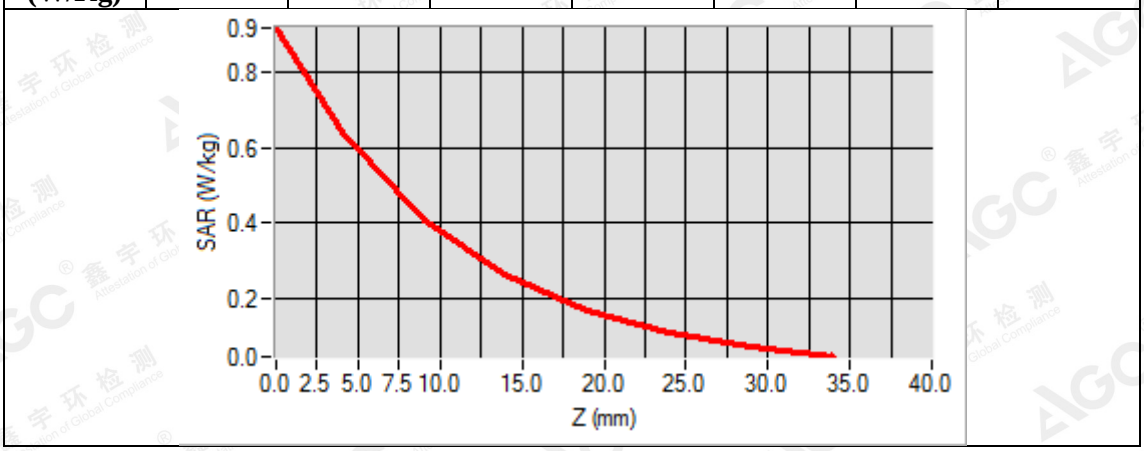
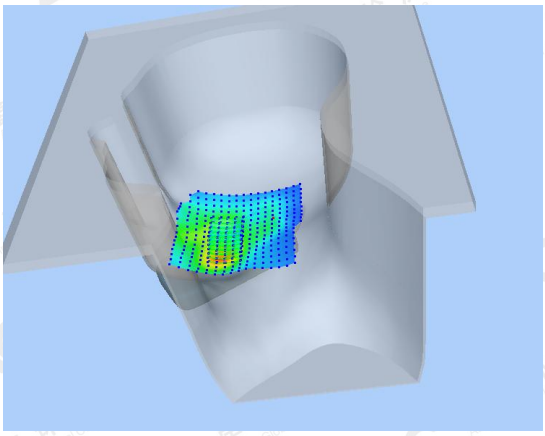
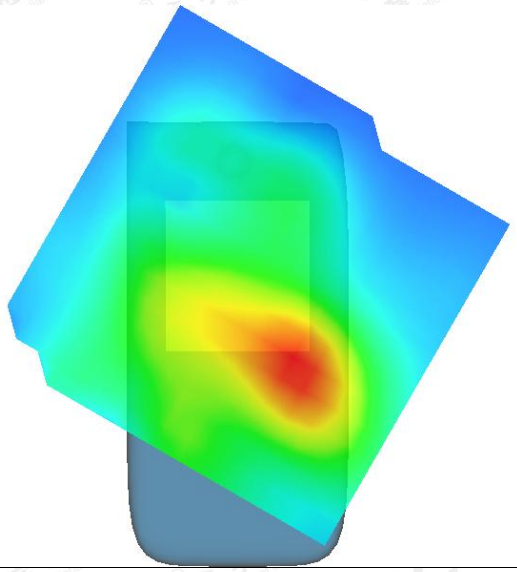
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
|---|---|---|---|---|---|---|---|
| SAR (W/Kg) | 0.9189 | 0.6420 | 0.4058 | 0.2606 | 0.1672 | 0.1068 | 0.0700 |




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

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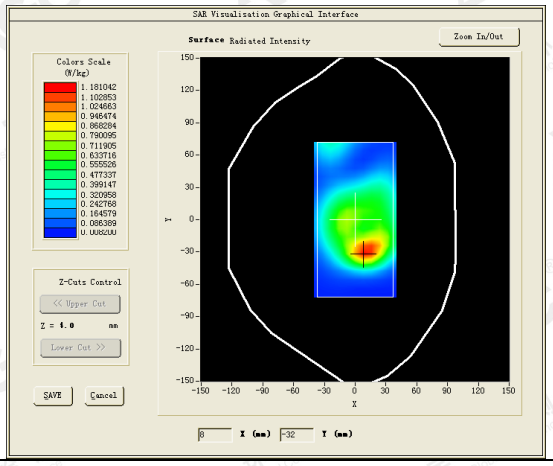
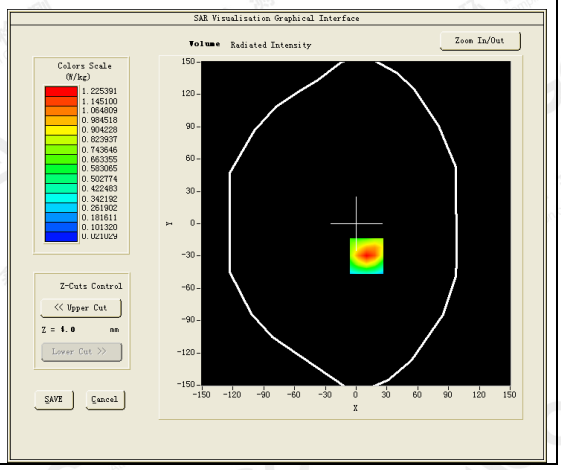
**Test Laboratory: AGC Lab** **Date: July 04,2018**
**WCDMA Band II Low-Body-Towards Grounds (RMC 12.2kbps)**
**DUT: Smartphone; Type: VOLT_5XL**

Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=2.39;
Frequency: 1852.4 MHz; Medium parameters used: f = 1900 MHz; σ=1.48 mho/m; εr =54.63; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 22.3, Liquid temperature (℃): 21.9

SATIMO Configuration:
- Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

**Configuration/ WCDMA band II Low-Body-back/Area Scan:** Measurement grid: dx=8mm, dy=8mm
**Configuration/ WCDMA band II Low-Body-back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5m;

| | |
|---|---|
| **Area Scan** | sam_direct_droit2_surf8mm.txt |
| **ZoomScan** | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| **Phantom** | Validation plane |
| **Device Position** | Body Back |
| **Band** | WCDMA band II |
| **Channels** | Low |
| **Signal** | CDMA (Crest factor: 1.0) |

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





**Maximum location: X=10.00, Y=-30.00**
**SAR Peak: 1.87 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.615435 |
| **SAR 1g (W/Kg)** | 1.145959 |

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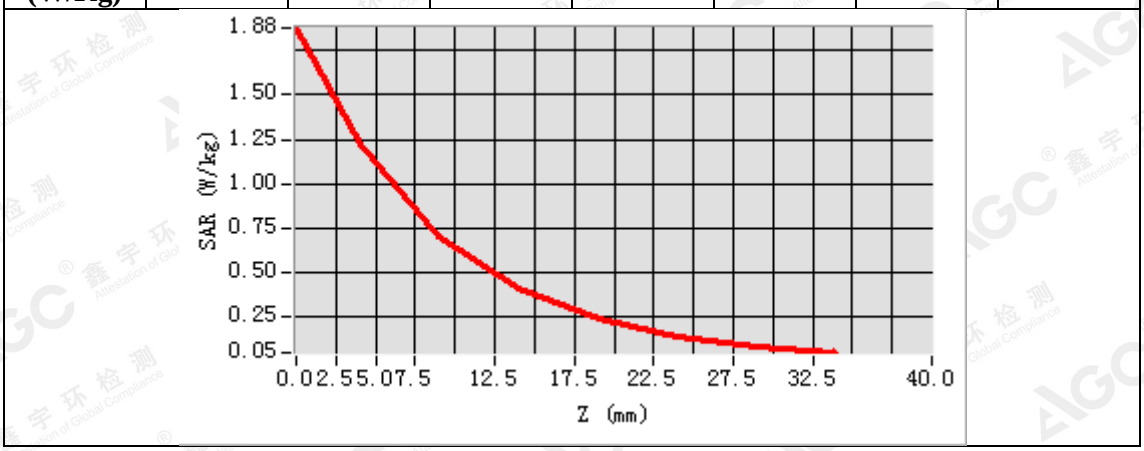
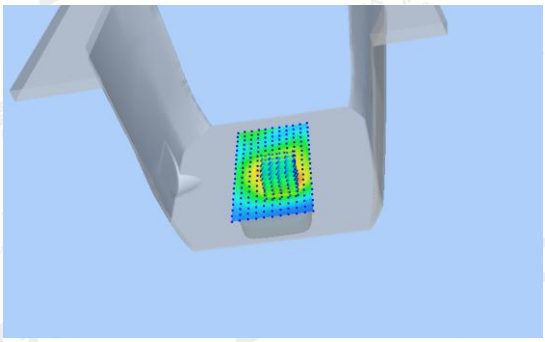
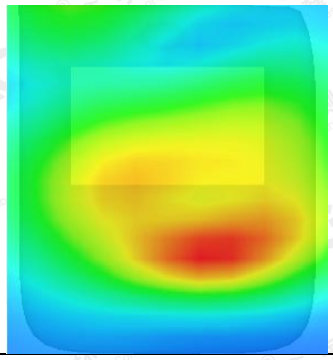
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
|---|---|---|---|---|---|---|---|
| SAR (W/Kg) | 1.8768 | 1.2254 | 0.7017 | 0.4064 | 0.2344 | 0.1364 | 0.0801 |




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

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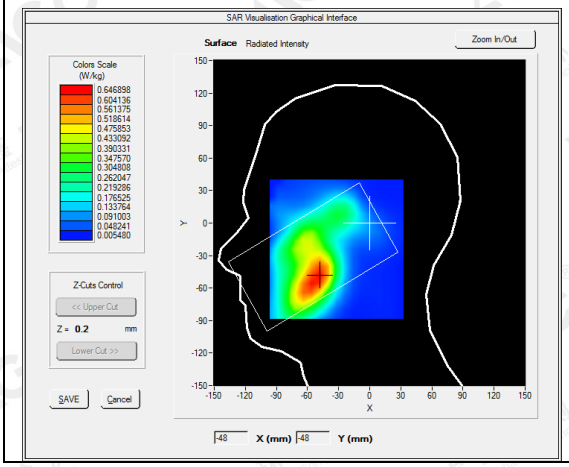
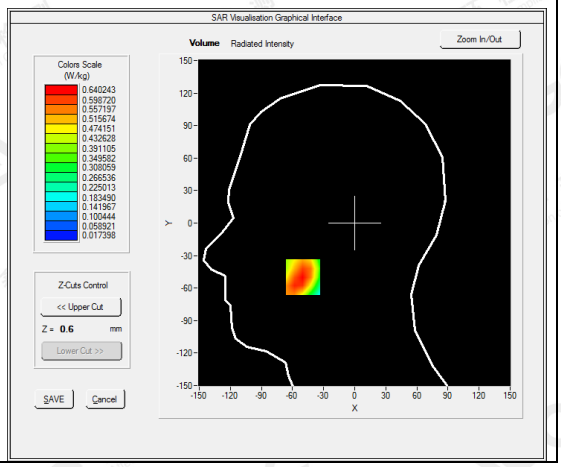
**Test Laboratory: AGC Lab** **Date: July 06,2018**
**WCDMA Band IV Mid-Touch-Left (RMC )**
**DUT: Smartphone; Type: VOLT_5XL**

Communication System: UMTS; Communication System Band: BAND IV UTRA/FDD; Duty Cycle:1: 1; Conv.F=1.99; Frequency:1732.5 MHz; Medium parameters used: f =1750 MHz; σ=1.36 mho/m; εr =40.27; ρ= 1000 kg/m³ ;
Phantom section: Left Section
Ambient temperature (℃): 21.9, Liquid temperature (℃): 21.3

SATIMO Configuration:
- Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

**Configuration/ WCDMA Band IV Mid-Touch-Left/Area Scan:** Measurement grid: dx=8mm, dy=8mm
**Configuration/ WCDMA Band IV Mid-Touch-Left/Zoom Scan:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

| | |
|---|---|
| **Area Scan** | sam_direct_droit2_surf8mm.txt |
| **ZoomScan** | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| **Phantom** | Left head |
| **Device Position** | Cheek |
| **Band** | WCDMA Band IV |
| **Channels** | Middle |
| **Signal** | CDMA (Crest factor: 1.0) |

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





**Maximum location: X=-50.00, Y=-50.00**
**SAR Peak: 0.92 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.386289 |
| **SAR 1g (W/Kg)** | 0.618260 |

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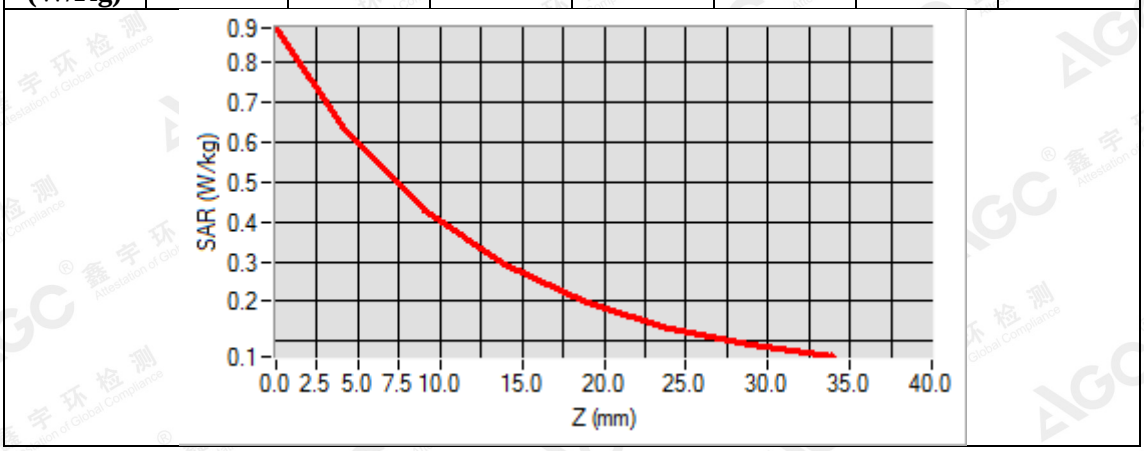
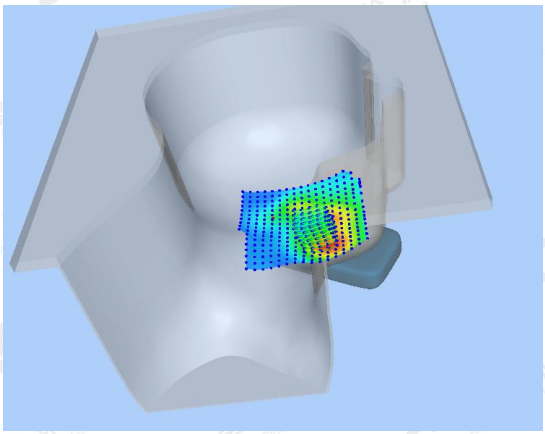
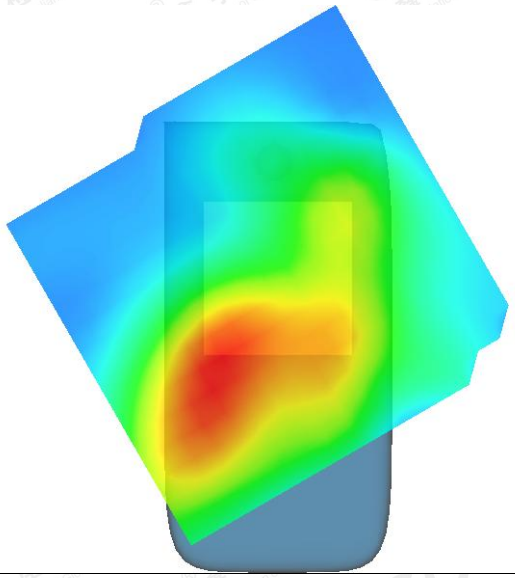
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
|---|---|---|---|---|---|---|---|
| SAR (W/Kg) | 0.8851 | 0.6402 | 0.4276 | 0.2929 | 0.1989 | 0.1311 | 0.0894 |




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

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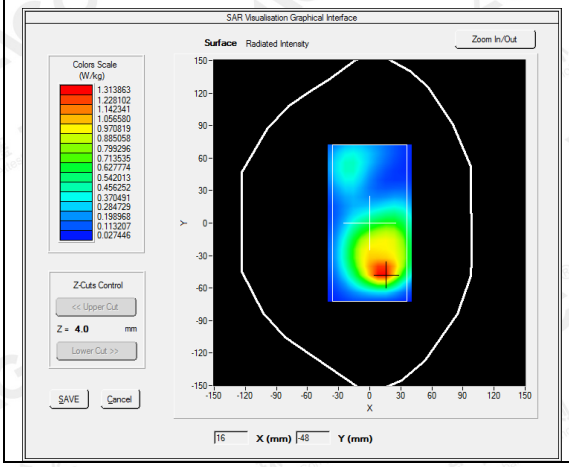
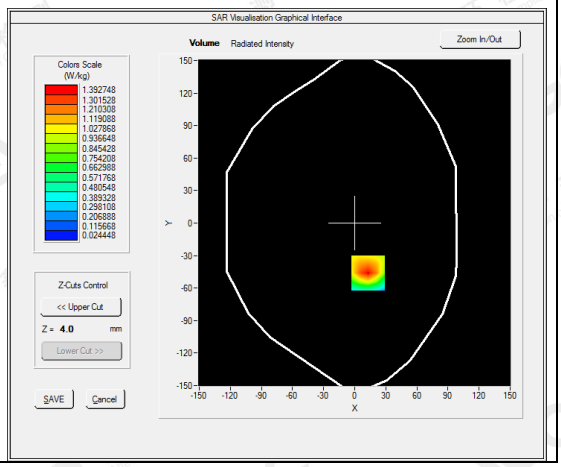
**Test Laboratory: AGC Lab** **Date: July 06,2018**
**WCDMA Band IV Low-Body-Towards Grounds (RMC)**
**DUT: Smartphone; Type: VOLT_5XL**

Communication System: UMTS; Communication System Band: BAND IV UTRA/FDD; Duty Cycle:1: 1; Conv.F=2.05; Frequency:1712.5MHz; Medium parameters used: f = 1750 MHz; σ= 1.44 mho/m; εr =55.05; ρ= 1000 kg/m³;
Phantom section: Flat Section
Ambient temperature (℃): 21.9, Liquid temperature (℃): 21.5

SATIMO Configuration:
- Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

**Configuration/ WCDMA Band IV Low-Body-Back/Area Scan:** Measurement grid: dx=8mm, dy=8mm
**Configuration/ WCDMA Band IV Low-Body-Back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

| | |
|---|---|
| **Area Scan** | sam_direct_droit2_surf8mm.txt |
| **ZoomScan** | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| **Phantom** | Validation plane |
| **Device Position** | Body Back |
| **Band** | WCDMA Band IV |
| **Channels** | Low |
| **Signal** | CDMA (Crest factor: 1.0) |

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





**Maximum location: X=13.00, Y=-46.00**
**SAR Peak: 2.07 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.743672 |
| **SAR 1g (W/Kg)** | 1.305471 |

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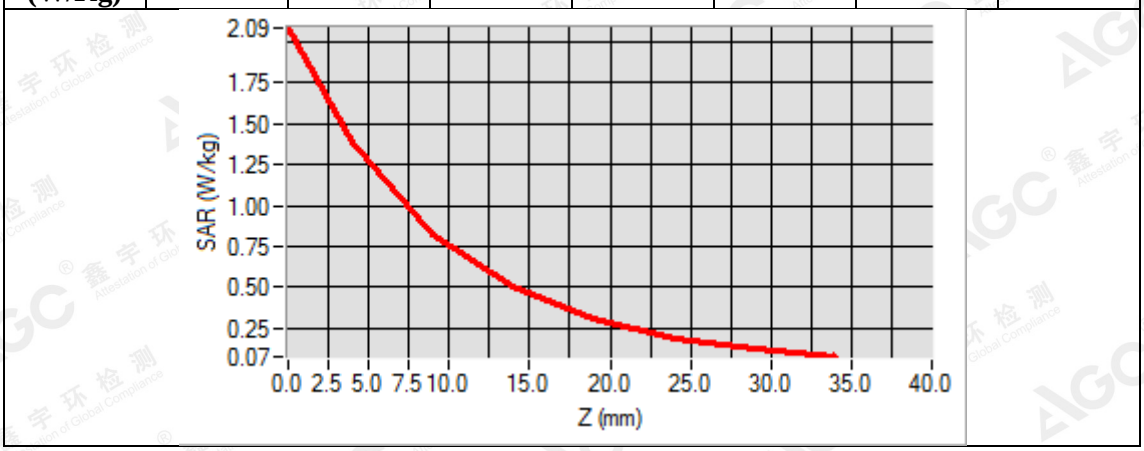
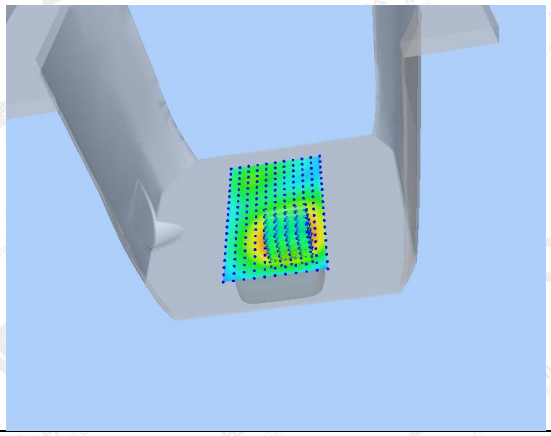
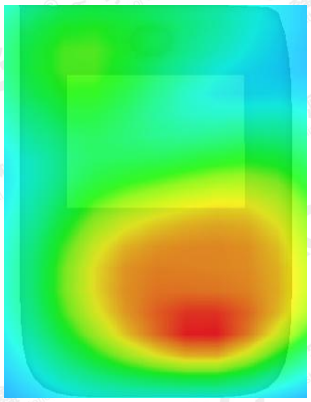
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
|---|---|---|---|---|---|---|---|
| SAR (W/Kg) | 2.0877 | 1.3927 | 0.8277 | 0.5058 | 0.3068 | 0.1877 | 0.1157 |




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

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**Test Laboratory: AGC Lab** **Date: July 05,2018**

**WCDMA Band Ⅴ Mid-Touch-Left (RMC )**

**DUT: Smartphone; Type: VOLT_5XL**

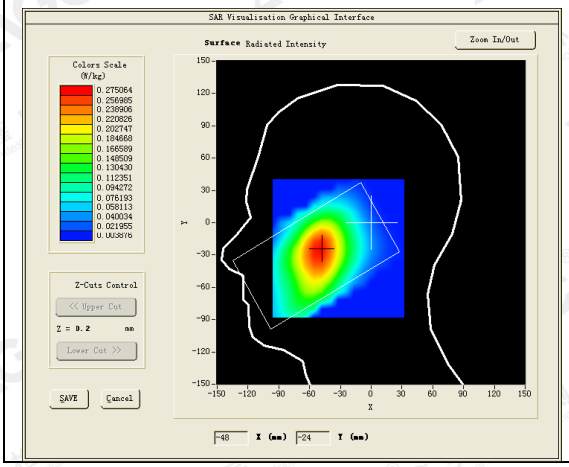
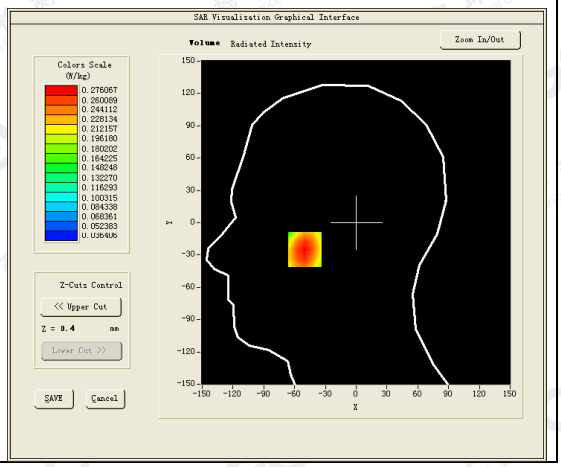
Communication System: UMTS; Communication System Band: BAND V UTRA/FDD ; Duty Cycle:1: 1; Conv.F=1.74; Frequency: 836.6 MHz; Medium parameters used: f = 835MHz; σ= 0.91 mho/m; εr = 41.77; ρ= 1000 kg/m³ ;
Phantom section: Left Section
Ambient temperature (℃): 22.1, Liquid temperature (℃): 21.2

SATIMO Configuration:

- Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

**Configuration/ WCDMA Band V Mid-Touch-Left/Area Scan:** Measurement grid: dx=8mm, dy=8mm
**Configuration/ WCDMA Band V Mid-Touch-Left/Zoom Scan:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

| | |
|---|---|
| **Area Scan** | sam_direct_droit2_surf8mm.txt |
| **ZoomScan** | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| **Phantom** | Left head |
| **Device Position** | Cheek |
| **Band** | WCDMA Band V |
| **Channels** | Middle |
| **Signal** | CDMA (Crest factor: 1.0) |

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





**Maximum location: X=-50.00, Y=-25.00**
**SAR Peak: 0.33 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.197885 |
| **SAR 1g (W/Kg)** | 0.266066 |

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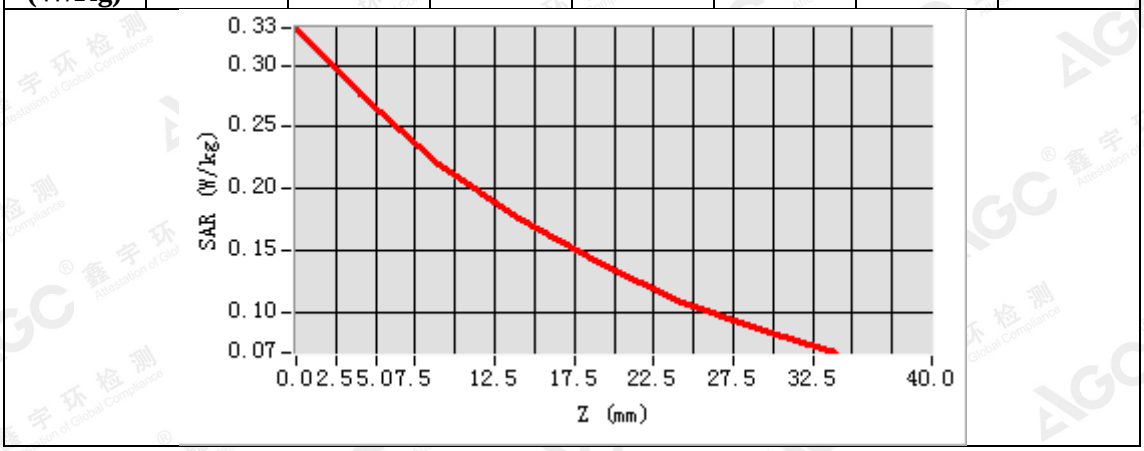
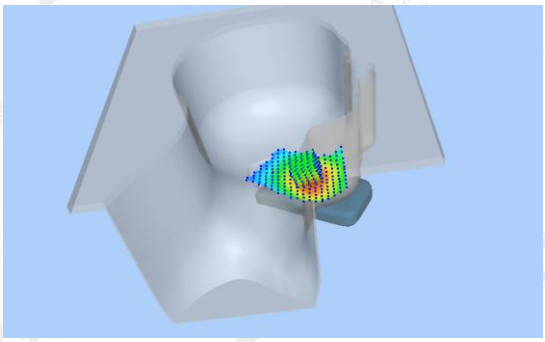
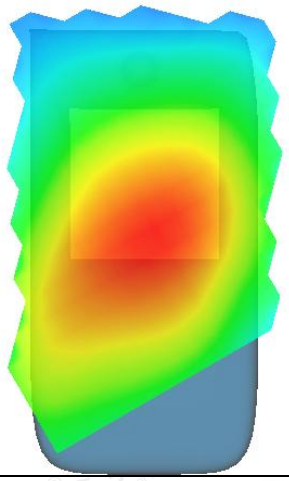
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
|---|---|---|---|---|---|---|---|
| SAR (W/Kg) | 0.3301 | 0.2761 | 0.2201 | 0.1761 | 0.1393 | 0.1098 | 0.0863 |




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

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**Test Laboratory: AGC Lab** **Date: July 05,2018**

**WCDMA Band Ⅴ Mid-Body-Towards Grounds (RMC)**

**DUT: Smartphone; Type: VOLT_5XL**

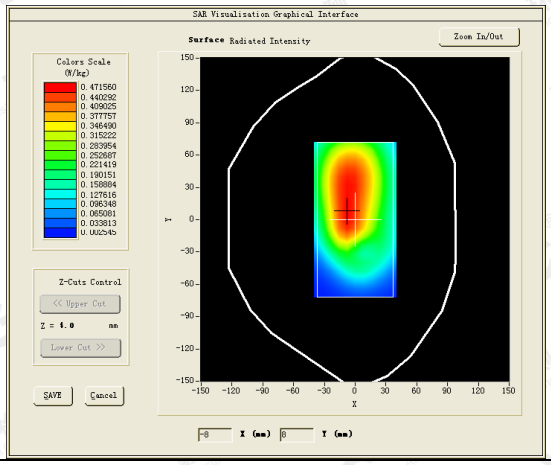
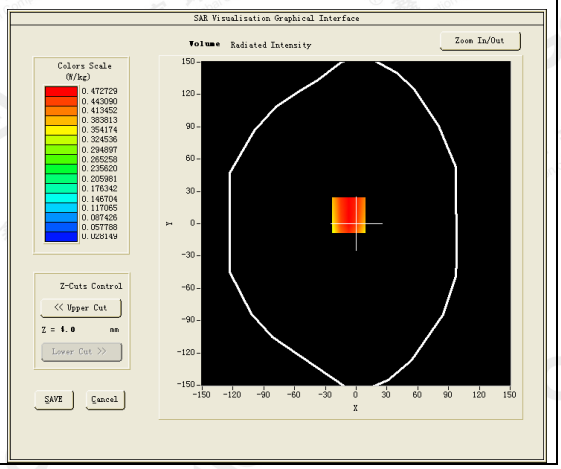
Communication System: UMTS; Communication System Band: BAND V UTRA/FDD; Duty Cycle:1: 1; Conv.F=1.81; Frequency: 836.6 MHz; Medium parameters used: f = 835MHz; σ=0.96 mho/m; εr =54.69; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 22.1, Liquid temperature (℃): 21.5

SATIMO Configuration:

- Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

**Configuration/ WCDMA Band V Mid-Body-Back/Area Scan:** Measurement grid: dx=8mm, dy=8mm
**Configuration/ WCDMA Band V Mid-Body-Back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

| | |
|---|---|
| **Area Scan** | sam_direct_droit2_surf8mm.txt |
| **ZoomScan** | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| **Phantom** | Validation plane |
| **Device Position** | Body Back |
| **Band** | WCDMA Band V |
| **Channels** | Middle |
| **Signal** | CDMA (Crest factor: 1.0) |

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



**Maximum location: X=-7.00, Y=8.00**
**SAR Peak: 0.60 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.330002 |
| **SAR 1g (W/Kg)** | 0.460013 |

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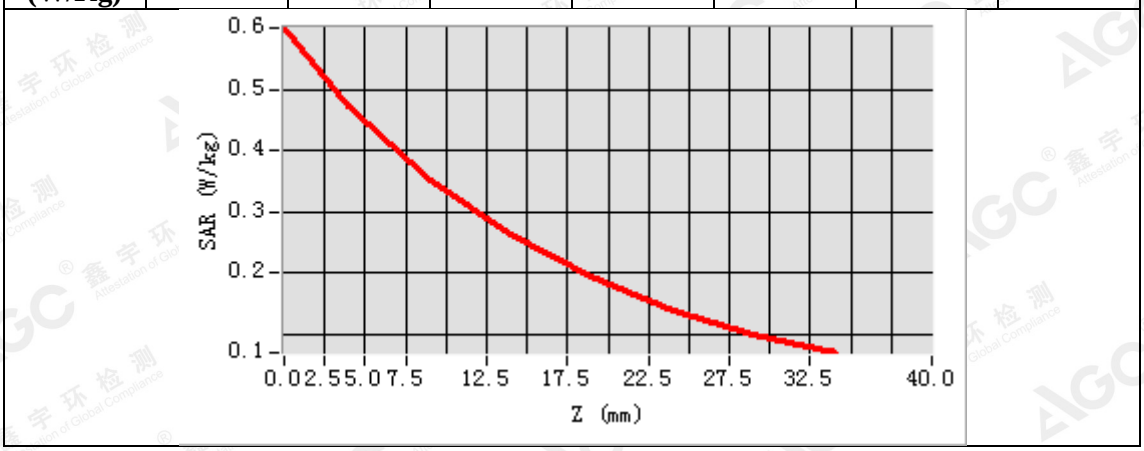
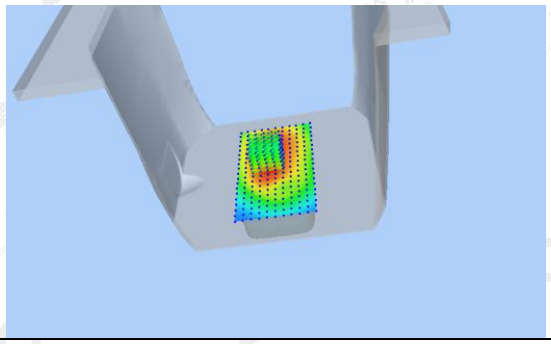
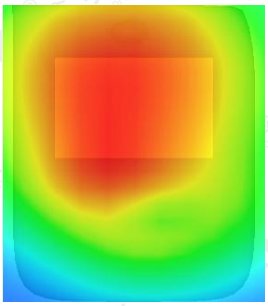
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
|---|---|---|---|---|---|---|---|
| SAR (W/Kg) | 0.5997 | 0.4727 | 0.3527 | 0.2623 | 0.1956 | 0.1409 | 0.1003 |




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

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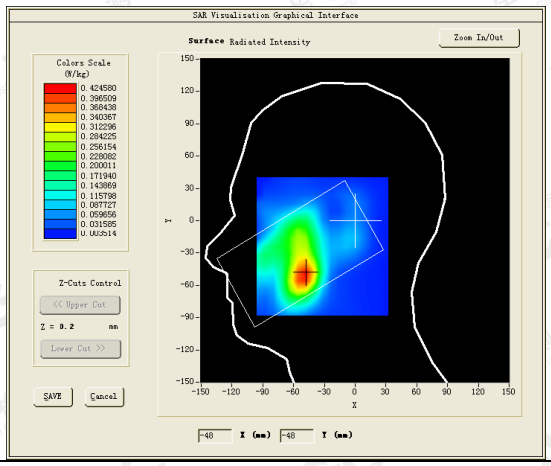
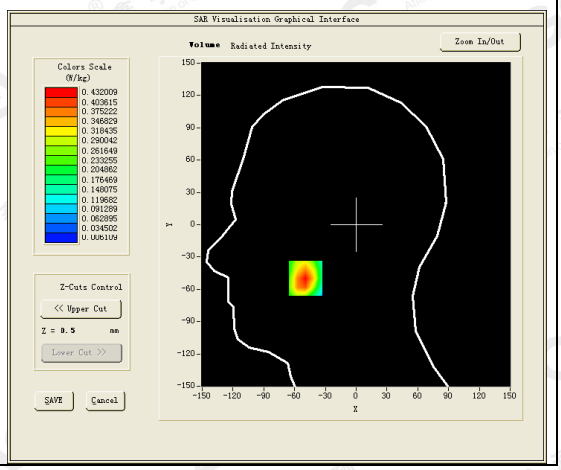
**Test Laboratory: AGC Lab** **Date: June 25,2018**
**LTE Band 2 Mid-Touch-Right (1 RB#0)**
**DUT: Smartphone; Type: VOLT_5XL**

Communication System: LTE; Communication System Band: LTE Band 2; Duty Cycle:1:1; Conv.F=2.32; Frequency:1880MHz; Medium parameters used: f =1900 MHz; σ= 1.38 mho/m; εr =40.67; ρ= 1000 kg/m³ ;
Phantom section: Right Section
Ambient temperature (℃): 21.8, Liquid temperature (℃): 21.2

SATIMO Configuration:
- Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

**Configuration/ LTE Band 2 Mid- Touch-Right /Area Scan:** Measurement grid: dx=8mm, dy=8mm
**Configuration/ LTE Band 2 Mid- Touch-Right /Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

| | |
|---|---|
| **Area Scan** | sam_direct_droit2_surf8mm.txt |
| **Zoom Scan** | 5x5x7,dx=8mm dy=8mm dz=5mm |
| **Phantom** | Right head |
| **Device Position** | Cheek |
| **Band** | LTE Band 2 |
| **Channels** | Middle |
| **Signal** | OFDM (Crest factor: 1.0) |

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



**Maximum location: X=-49.00, Y=-50.00**
**SAR Peak: 0.63 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.233773 |
| **SAR 1g (W/Kg)** | 0.410553 |

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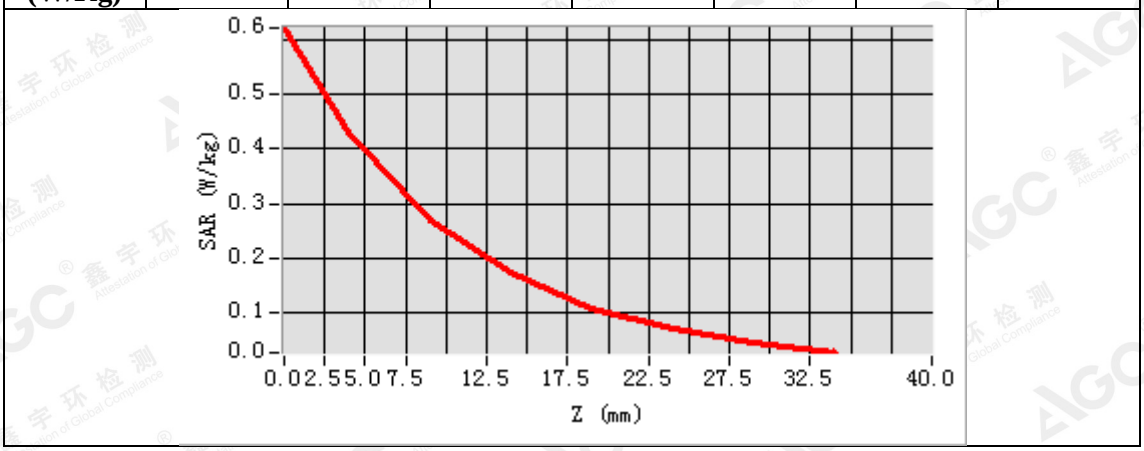
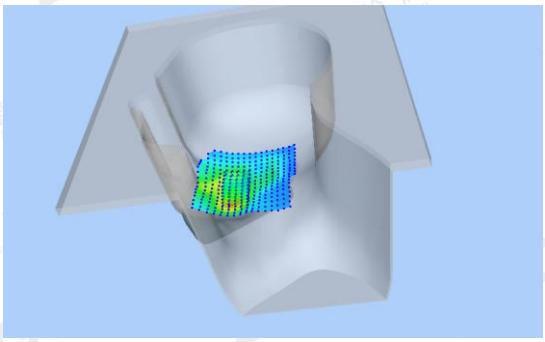
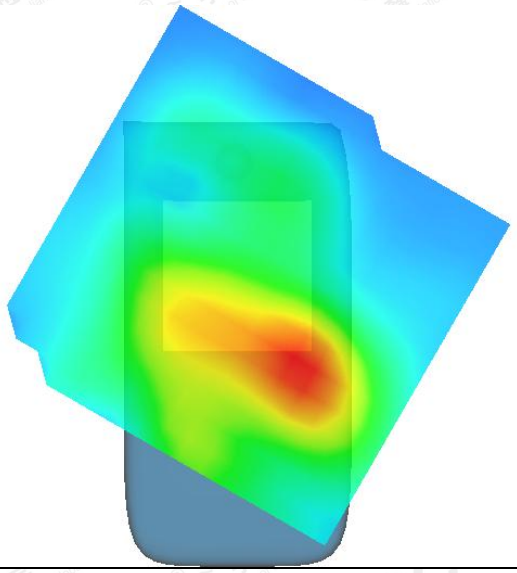
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
|---|---|---|---|---|---|---|---|
| SAR (W/Kg) | 0.6210 | 0.4320 | 0.2711 | 0.1746 | 0.1099 | 0.0701 | 0.0449 |




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

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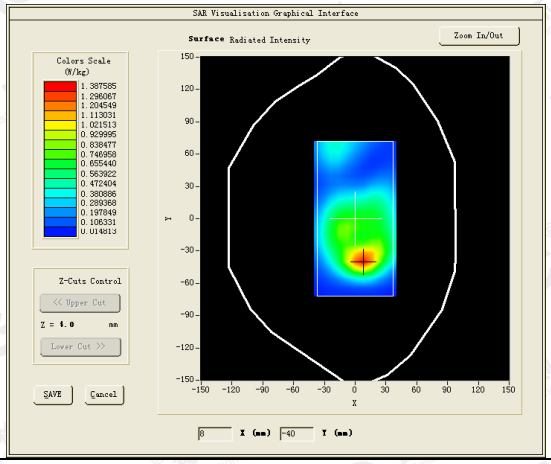
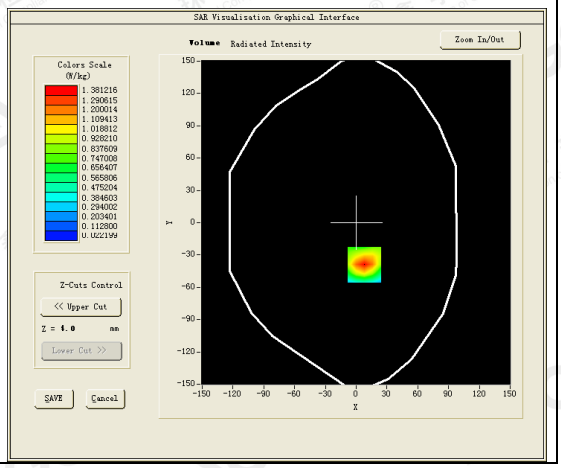
**Test Laboratory: AGC Lab** **Date: June 25,2018**
**LTE Band 2 Low-Body-Back (1 RB#0)**
**DUT: Smartphone; Type: VOLT_5XL**

Communication System: LTE; Communication System Band: LTE Band 2; Duty Cycle:1:1; Conv.F=2.39; Frequency:1860MHz; Medium parameters used: f = 1900 MHz; σ= 1.48 mho/m; εr =54.16; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.8, Liquid temperature (℃): 21.5

SATIMO Configuration:
- Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

**Configuration/ LTE Band 2 Low-Body-back/Area Scan:** Measurement grid: dx=8mm, dy=8mm
**Configuration/ LTE Band 2 Low-Body-back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5m;

| | |
|---|---|
| **Area Scan** | sam_direct_droit2_surf8mm.txt |
| **Zoom Scan** | 5x5x7,dx=8mm dy=8mm dz=5mm |
| **Phantom** | Validation plane |
| **Device Position** | Body Back |
| **Band** | LTE Band 2 |
| **Channels** | Low |
| **Signal** | OFDM (Crest factor: 1.0) |

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



**Maximum location: X=8.00, Y=-39.00**
**SAR Peak: 2.11 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.685553 |
| **SAR 1g (W/Kg)** | 1.285035 |

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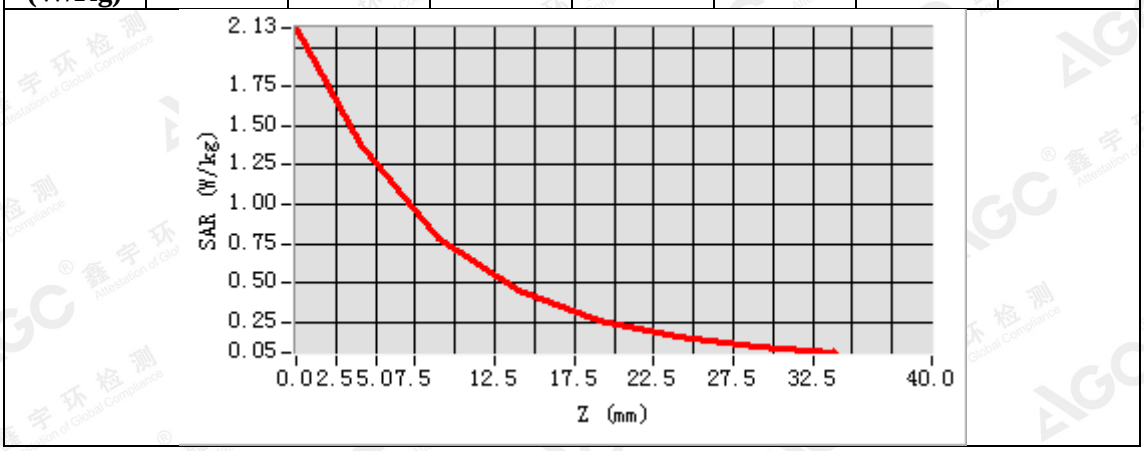
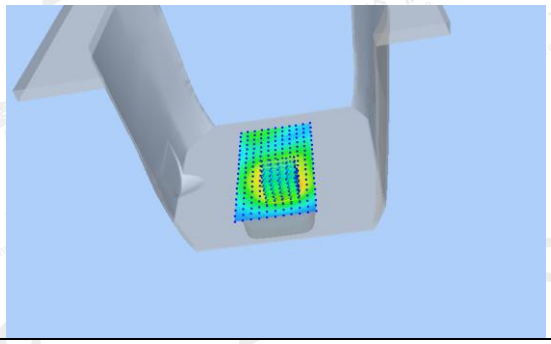
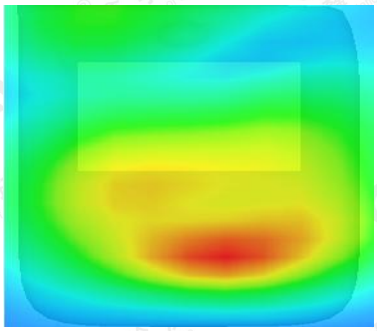
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
|---|---|---|---|---|---|---|---|
| SAR (W/Kg) | 2.1261 | 1.3812 | 0.7852 | 0.4524 | 0.2606 | 0.1511 | 0.0899 |




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

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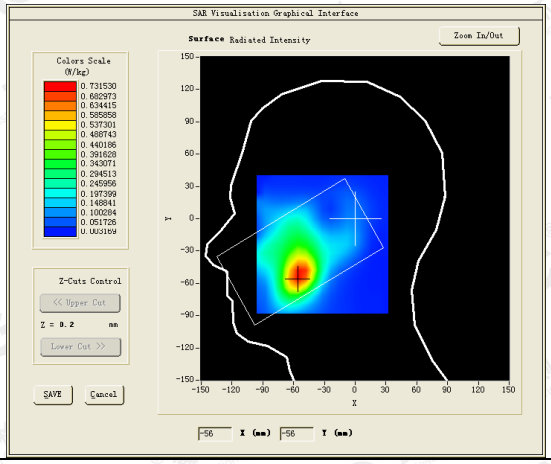
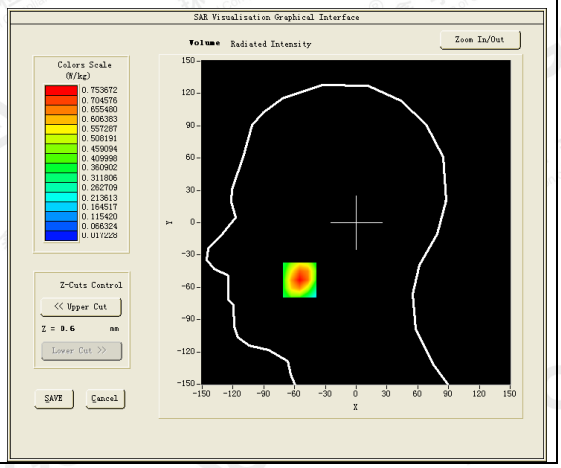
**Test Laboratory: AGC Lab** **Date: July 09,2018**
**LTE Band 4 Mid-Touch-Right (1 RB#0)**
**DUT: Smartphone; Type: VOLT_5XL**

Communication System: LTE; Communication System Band: LTE Band 4; Duty Cycle:1:1; Conv.F=1.99
Frequency:1732.5 MHz; Medium parameters used: f =1750 MHz; σ= 1.36mho/m; εr =40.35; ρ= 1000 kg/m³ ;
Phantom section: Right Section
Ambient temperature (℃): 23.1, Liquid temperature (℃): 22.5

SATIMO Configuration:
- Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

**Configuration/ LTE Band 4 Mid- Touch-Right /Area Scan:** Measurement grid: dx=8mm, dy=8mm
**Configuration/ LTE Band 4 Mid- Touch-Right /Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

| | |
|---|---|
| **Area Scan** | sam_direct_droit2_surf8mm.txt |
| **Zoom Scan** | 5x5x7,dx=8mm dy=8mm dz=5mm |
| **Phantom** | Right head |
| **Device Position** | Cheek |
| **Band** | LTE Band 4 |
| **Channels** | Middle |
| **Signal** | OFDM (Crest factor: 1.0) |

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



**Maximum location: X=-55.00, Y=-53.00**
**SAR Peak: 1.06 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.428193 |
| **SAR 1g (W/Kg)** | 0.711536 |

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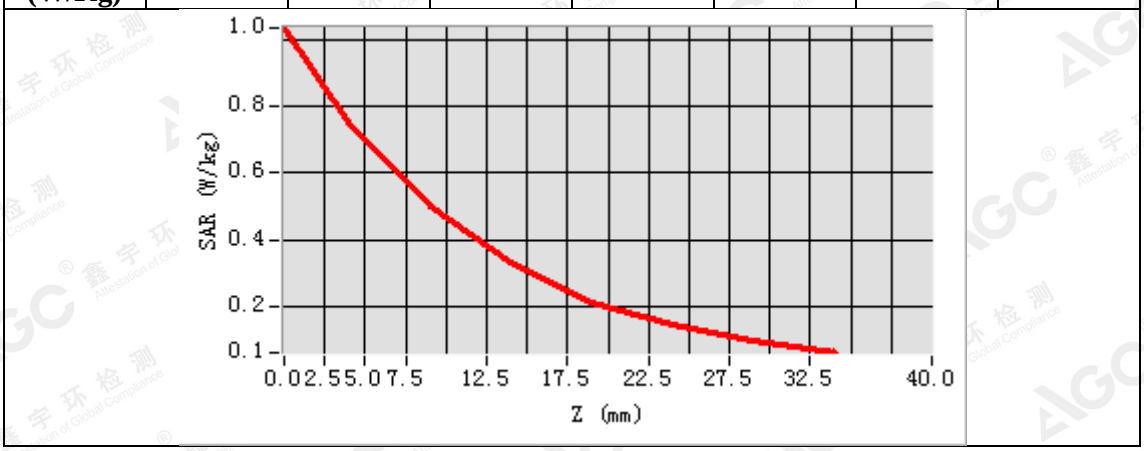
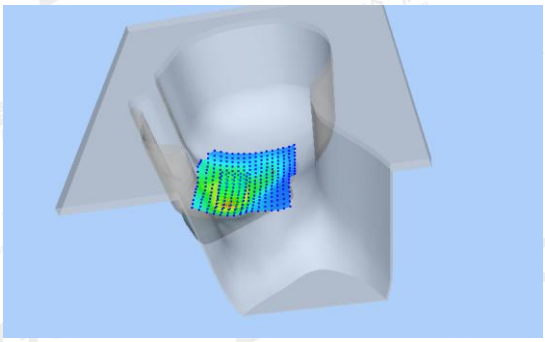
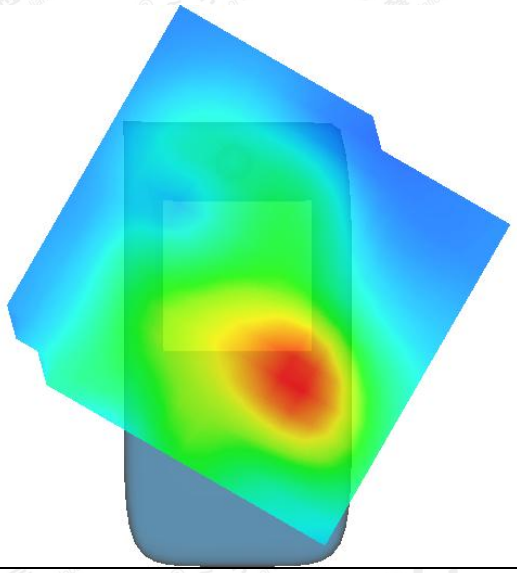
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
|---|---|---|---|---|---|---|---|
| SAR (W/Kg) | 1.0352 | 0.7537 | 0.4996 | 0.3292 | 0.2144 | 0.1460 | 0.0948 |




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

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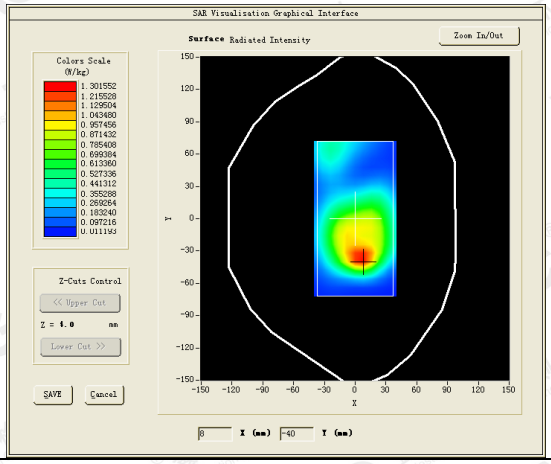
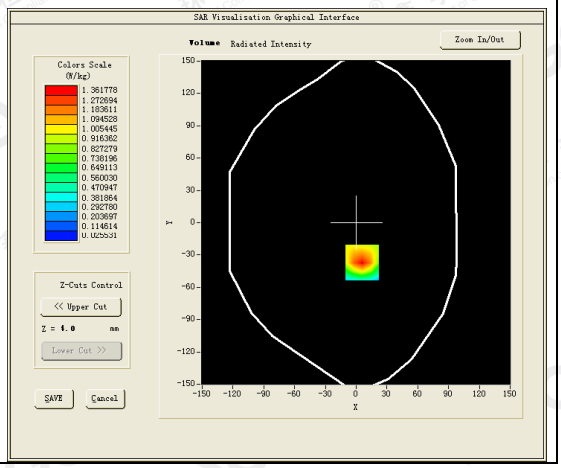
**Test Laboratory: AGC Lab** **Date: July 09,2018**
**LTE Band 4 Mid-Body-Back (1 RB#0)**
**DUT: Smartphone; Type: VOLT_5XL**

Communication System: LTE; Communication System Band: LTE Band 4; Duty Cycle:1:1; Conv.F=2.05;
Frequency:1732.5 MHz; Medium parameters used: f = 1750 MHz; σ=1.47 mho/m; εr =54.26; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 23.1, Liquid temperature (℃): 22.6

SATIMO Configuration:
- Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

**Configuration/ LTE Band 4 Mid-Body-back/Area Scan:** Measurement grid: dx=8mm, dy=8mm
**Configuration/ LTE Band 4 Mid-Body-back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5m;

| | |
|---|---|
| **Area Scan** | sam_direct_droit2_surf8mm.txt |
| **Zoom Scan** | 5x5x7,dx=8mm dy=8mm dz=5mm |
| **Phantom** | Validation plane |
| **Device Position** | Body Back |
| **Band** | LTE Band 4 |
| **Channels** | Middle |
| **Signal** | OFDM (Crest factor: 1.0) |

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



**Maximum location: X=6.00, Y=-37.00**
**SAR Peak: 2.03 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.716884 |
| **SAR 1g (W/Kg)** | 1.273462 |

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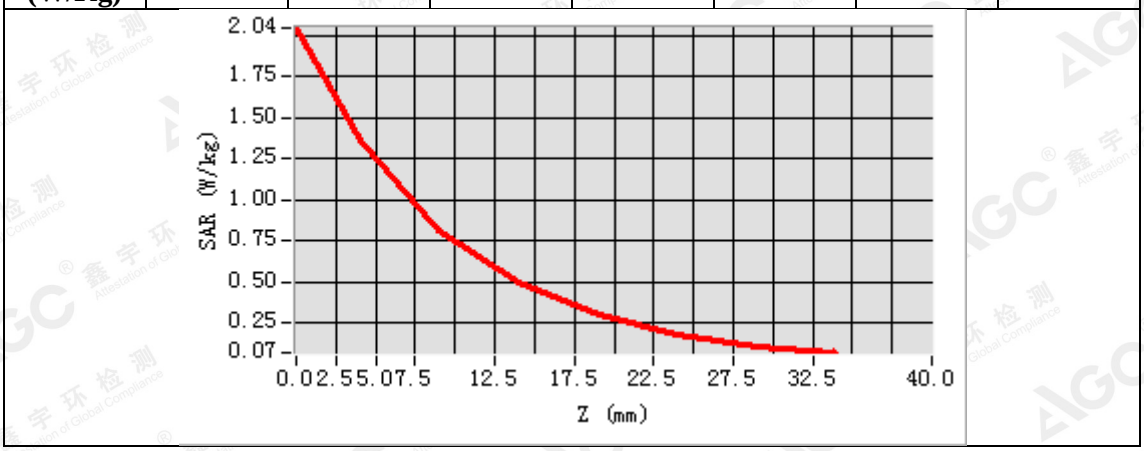
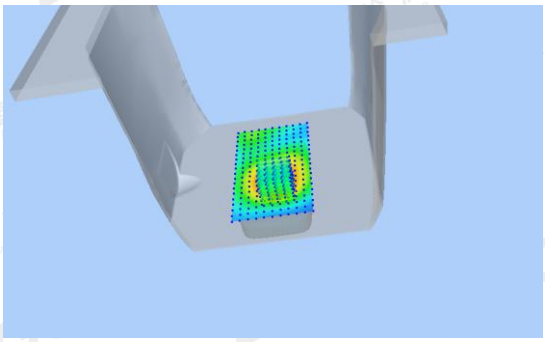
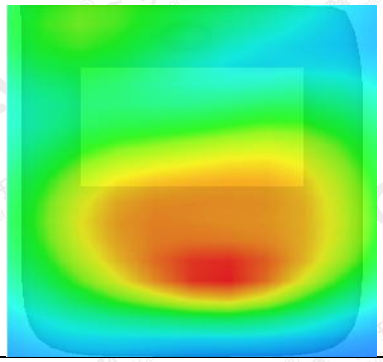
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
|---|---|---|---|---|---|---|---|
| SAR (W/Kg) | 2.0435 | 1.3618 | 0.8075 | 0.4915 | 0.2973 | 0.1807 | 0.1111 |




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

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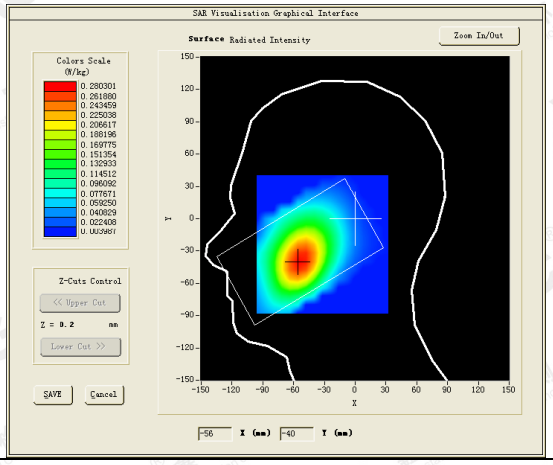
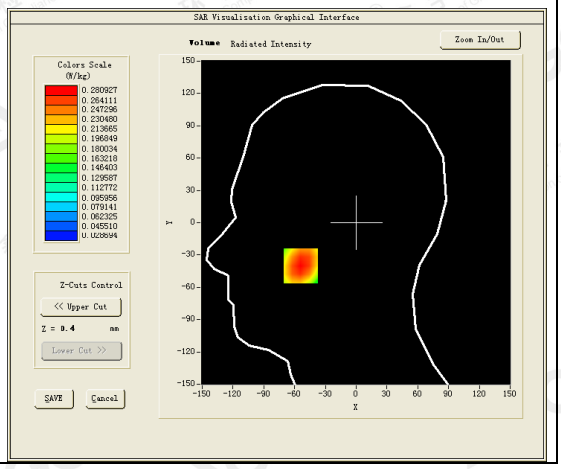
**Test Laboratory: AGC Lab** **Date: June 30,2018**
**LTE Band 5 Mid-Touch-Right (1 RB#0)**
**DUT: Smartphone; Type: VOLT_5XL**

Communication System: LTE; Communication System Band: LTE Band 5; Duty Cycle:1:1; Conv.F=1.74
Frequency: 836.5 MHz; Medium parameters used: f = 835 MHz; σ=0.89 mho/m; εr =40.96; ρ= 1000 kg/m³ ;
Phantom section: Right Section
Ambient temperature (℃): 21.8, Liquid temperature (℃): 21.5

SATIMO Configuration:
Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

**Configuration/ LTE Band 5 Mid- Touch-Right /Area Scan:** Measurement grid: dx=8mm, dy=8mm
**Configuration/ LTE Band 5 Mid- Touch-Right /Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

| | |
|---|---|
| **Area Scan** | sam_direct_droit2_surf8mm.txt |
| **Zoom Scan** | 5x5x7,dx=8mm dy=8mm dz=5mm |
| **Phantom** | Right head |
| **Device Position** | Cheek |
| **Band** | LTE Band 5 |
| **Channels** | Middle |
| **Signal** | OFDM (Crest factor: 1.0) |

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





**Maximum location: X=-54.00, Y=-40.00**
**SAR Peak: 0.35 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.199809 |
| **SAR 1g (W/Kg)** | 0.271932 |

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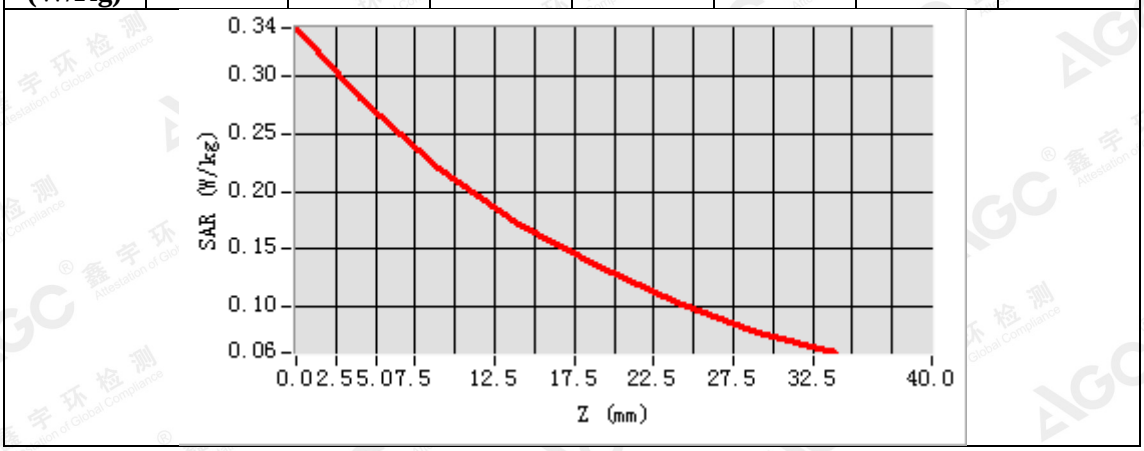
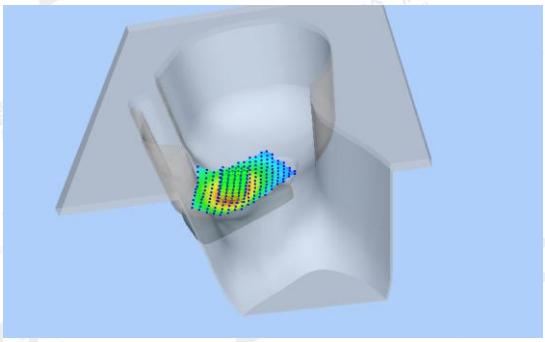
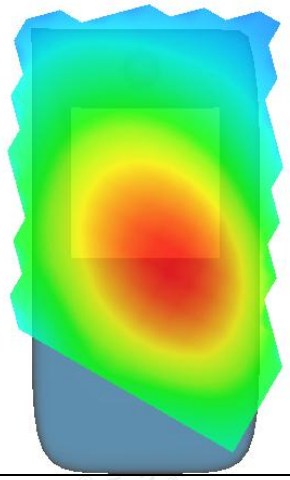
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
|---|---|---|---|---|---|---|---|
| SAR (W/Kg) | 0.3419 | 0.2809 | 0.2210 | 0.1716 | 0.1344 | 0.1036 | 0.0780 |




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

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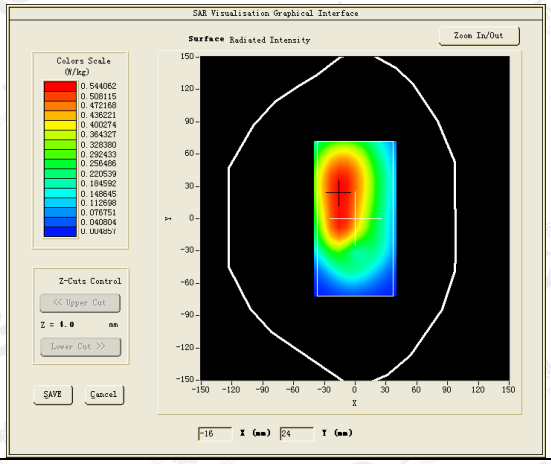
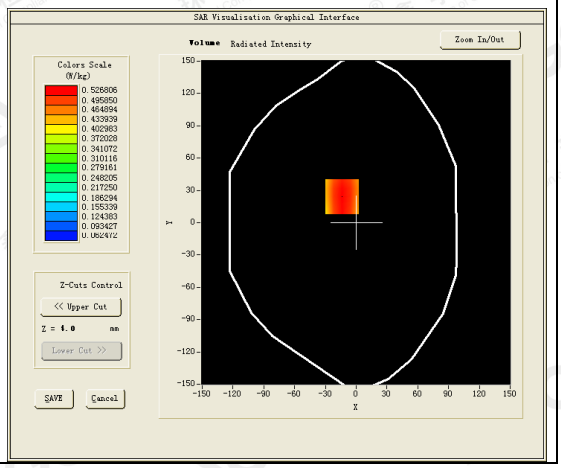
**Test Laboratory: AGC Lab** **Date: June 30,2018**
**LTE Band 5 Mid-Body-Back (1 RB#0)**
**DUT: Smartphone; Type: VOLT_5XL**

Communication System: LTE; Communication System Band: LTE Band 5; Duty Cycle:1:1; Conv.F=1.81
Frequency:836.5 MHz; Medium parameters used: f = 835 MHz; σ=0.95mho/m; εr =54.51; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.8, Liquid temperature (℃): 21.5

SATIMO Configuration:
- Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

**Configuration/ LTE Band 5 Mid-Body-back/Area Scan:** Measurement grid: dx=8mm, dy=8mm
**Configuration/ LTE Band 5 Mid-Body-back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5m;

| | |
|---|---|
| **Area Scan** | sam_direct_droit2_surf8mm.txt |
| **Zoom Scan** | 5x5x7,dx=8mm dy=8mm dz=5mm |
| **Phantom** | Validation plane |
| **Device Position** | Body Back |
| **Band** | LTE Band 5 |
| **Channels** | Middle |
| **Signal** | OFDM (Crest factor: 1.0) |

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



**Maximum location: X=-14.00, Y=24.00**
**SAR Peak: 0.66 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.371145 |
| **SAR 1g (W/Kg)** | 0.510824 |

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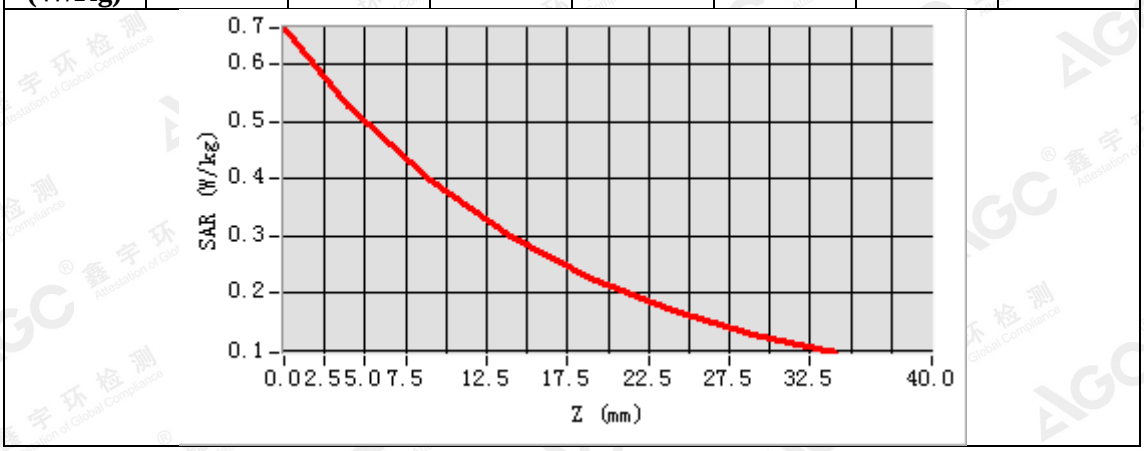
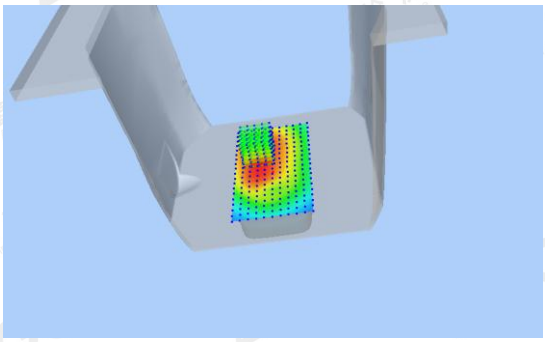
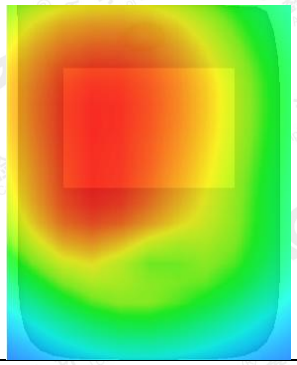
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
|---|---|---|---|---|---|---|---|
| SAR (W/Kg) | 0.6631 | 0.5268 | 0.3957 | 0.2988 | 0.2260 | 0.1701 | 0.1285 |




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

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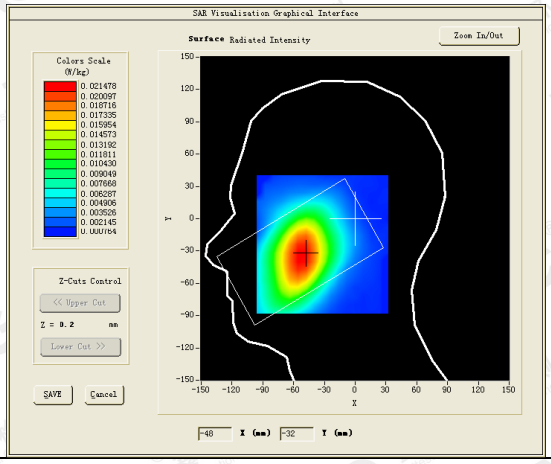
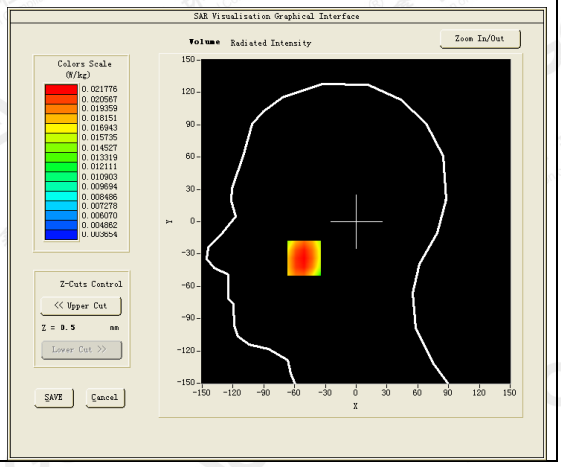
**Test Laboratory: AGC Lab** **Date: July 02,2018**
**LTE Band 12 Mid-Touch-Left (1 RB#0)**
**DUT: Smartphone; Type: VOLT_5XL**

Communication System: LTE; Communication System Band: LTE Band 12; Duty Cycle:1:1; Conv.F=1.61
Frequency: 707.5 MHz; Medium parameters used: f = 750 MHz; σ=0.86 mho/m; εr =43.35; ρ= 1000 kg/m³ ;
Phantom section: Left Section
Ambient temperature (℃): 22.0, Liquid temperature (℃): 21.3

SATIMO Configuration:
- Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

**Configuration/ LTE Band 12 Mid- Touch-Left /Area Scan:** Measurement grid: dx=8mm, dy=8mm
**Configuration/ LTE Band 12 Mid- Touch-Left /Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

| | |
|---|---|
| **Area Scan** | sam_direct_droit2_surf8mm.txt |
| **Zoom Scan** | 5x5x7,dx=8mm dy=8mm dz=5mm |
| **Phantom** | Left head |
| **Device Position** | Cheek |
| **Band** | LTE Band 12 |
| **Channels** | Middle |
| **Signal** | OFDM (Crest factor: 1.0) |

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



**Maximum location: X=-51.00, Y=-34.00**
**SAR Peak: 0.03 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.017101 |
| **SAR 1g (W/Kg)** | 0.021748 |

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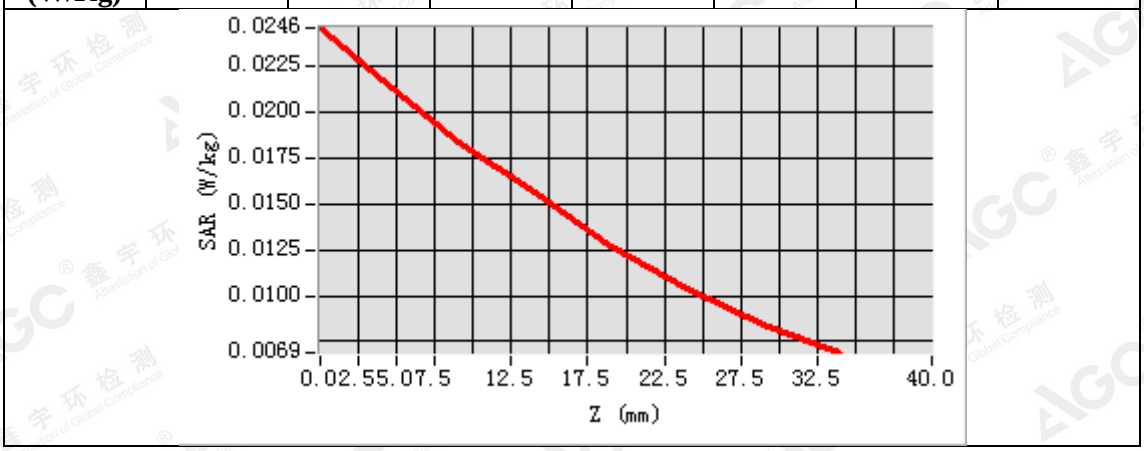
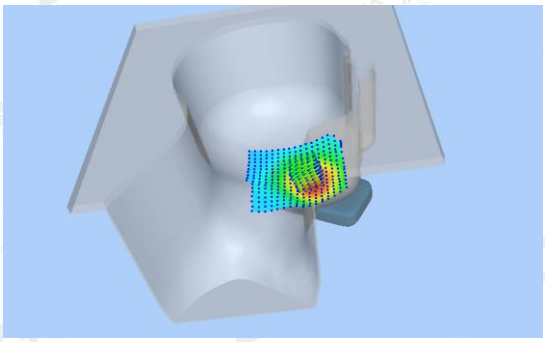
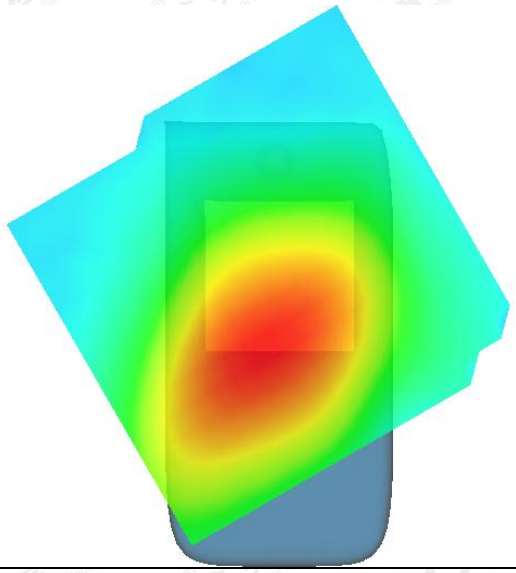
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
|---|---|---|---|---|---|---|---|
| SAR (W/Kg) | 0.0246 | 0.0218 | 0.0184 | 0.0157 | 0.0127 | 0.0104 | 0.0084 |




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

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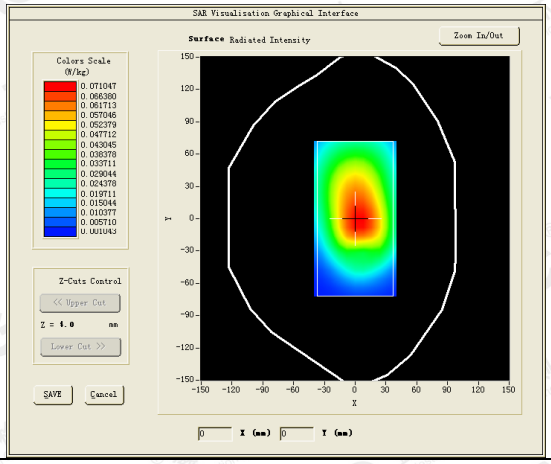
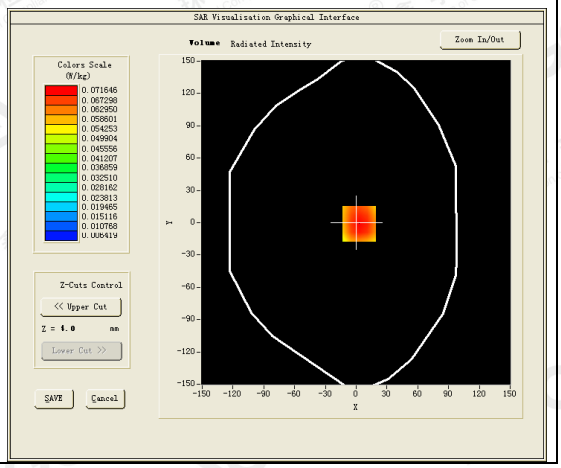
**Test Laboratory: AGC Lab** **Date: July 02,2018**
**LTE Band 12 Mid-Body-Back (1 RB#0)**
**DUT: Smartphone; Type: VOLT_5XL**

Communication System: LTE; Communication System Band: LTE Band 12; Duty Cycle:1:1; Conv.F=1.66;
Frequency: 707.5 MHz; Medium parameters used: f = 750 MHz; σ=0.93 mho/m; εr =56.69; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 22.0, Liquid temperature (℃): 21.5

SATIMO Configuration:
- Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

**Configuration/ LTE Band 12 Mid-Body-back/Area Scan:** Measurement grid: dx=8mm, dy=8mm
**Configuration/ LTE Band 12 Mid-Body-back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5m;

| | |
|---|---|
| **Area Scan** | sam_direct_droit2_surf8mm.txt |
| **Zoom Scan** | 5x5x7,dx=8mm dy=8mm dz=5mm |
| **Phantom** | Validation plane |
| **Device Position** | Body Back |
| **Band** | LTE Band 12 |
| **Channels** | Middle |
| **Signal** | OFDM (Crest factor: 1.0) |

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



**Maximum location: X=3.00, Y=-1.00**
**SAR Peak: 0.09 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.054313 |
| **SAR 1g (W/Kg)** | 0.073986 |

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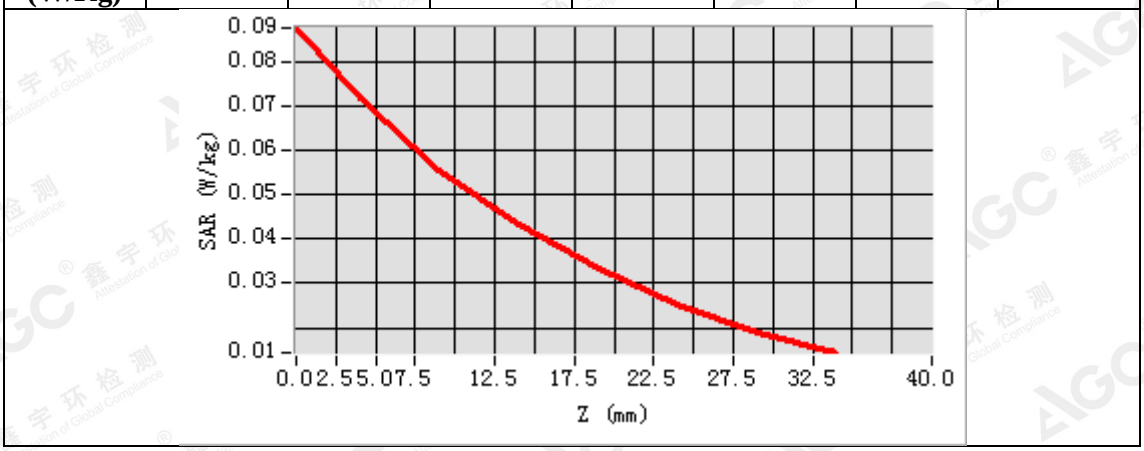
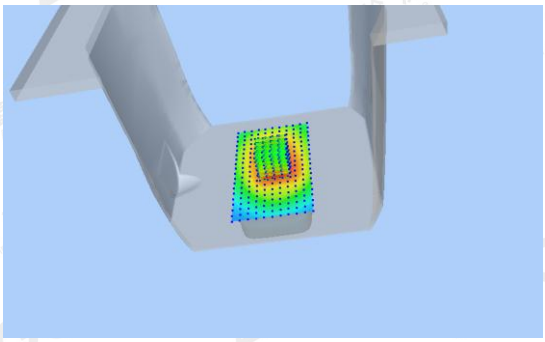
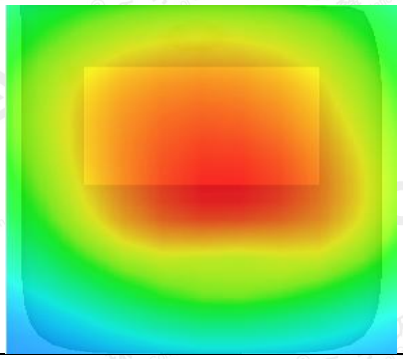
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
|---|---|---|---|---|---|---|---|
| SAR (W/Kg) | 0.0876 | 0.0716 | 0.0557 | 0.0434 | 0.0334 | 0.0252 | 0.0191 |




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

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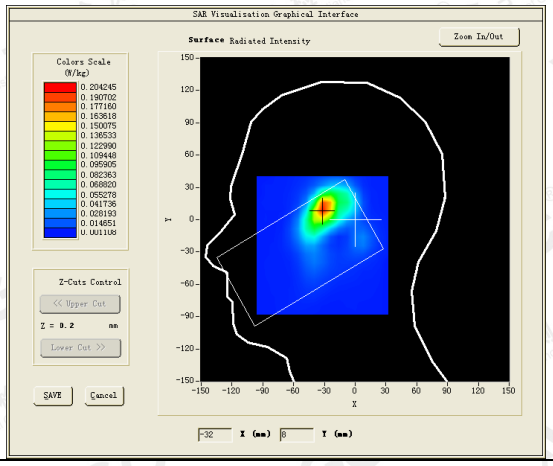
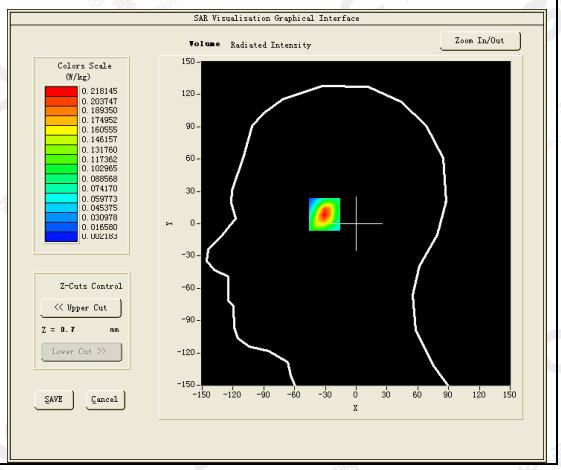
**WIFI MODE**
**Test Laboratory: AGC Lab** **Date: June 29,2018**
**802.11b High-Touch-Right**
**DUT: Smartphone; Type: VOLT_5XL**

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=2.52;
Frequency: 2462 MHz; Medium parameters used: f = 2450 MHz; σ =1.80mho/m; εr =38.75 ρ= 1000 kg/m³ ;
Phantom section: Right Section
Ambient temperature (℃):21.9, Liquid temperature (℃): 21.3

SATIMO Configuration:
- Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

**Configuration/802.11b High- Touch-Right/Area Scan:** Measurement grid: dx=8mm, dy=8mm
**Configuration/802.11b High- Touch-Right/Zoom Scan:** Measurement grid: dx=5mm,dy=5mm, dz=5mm

| | |
|---|---|
| **Area Scan** | sam_direct_droit2_surf8mm.txt |
| **ZoomScan** | 7x7x7,dx=5mm dy=5mm dz=5mm |
| **Phantom** | Right head |
| **Device Position** | Cheek |
| **Band** | 2450MHz |
| **Channels** | High |
| **Signal** | Crest factor: 1.0 |

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





**Maximum location: X=-31.00, Y=11.00**
**SAR Peak: 0.36 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.090208 |
| **SAR 1g (W/Kg)** | 0.195390 |

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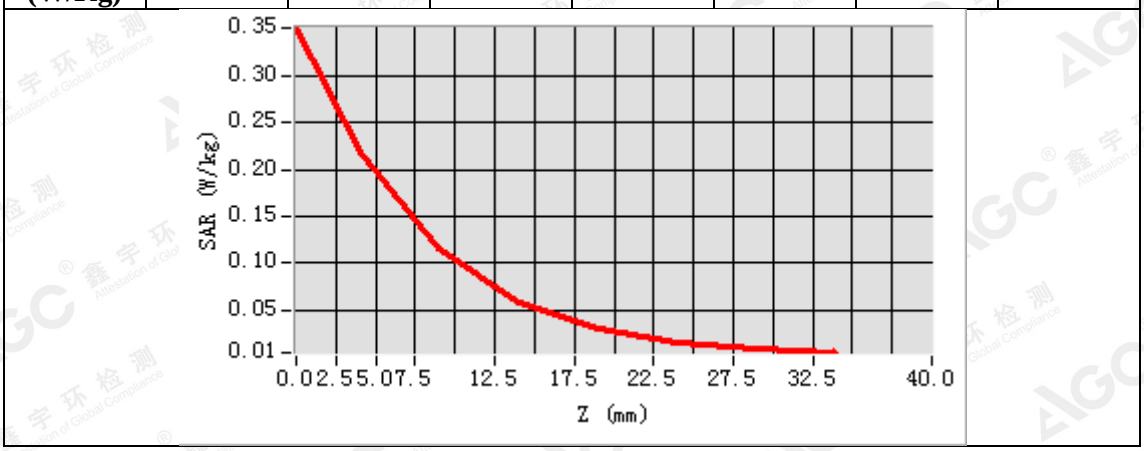
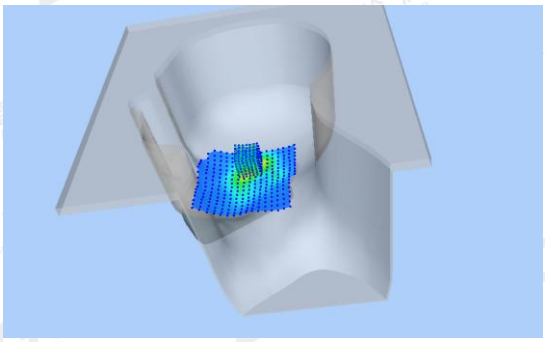
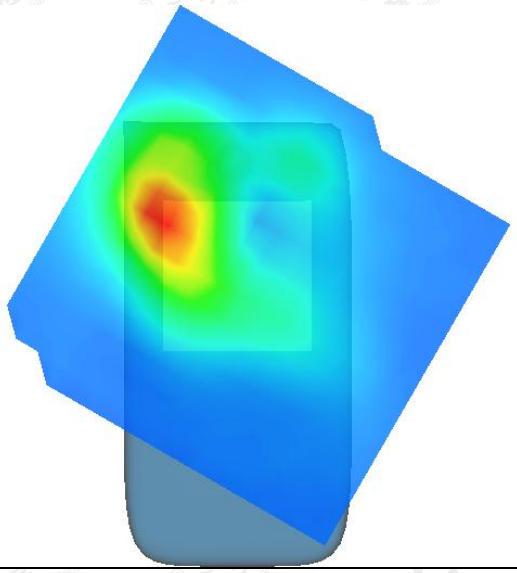
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
|---|---|---|---|---|---|---|---|
| SAR (W/Kg) | 0.3502 | 0.2181 | 0.1154 | 0.0594 | 0.0307 | 0.0163 | 0.0085 |




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

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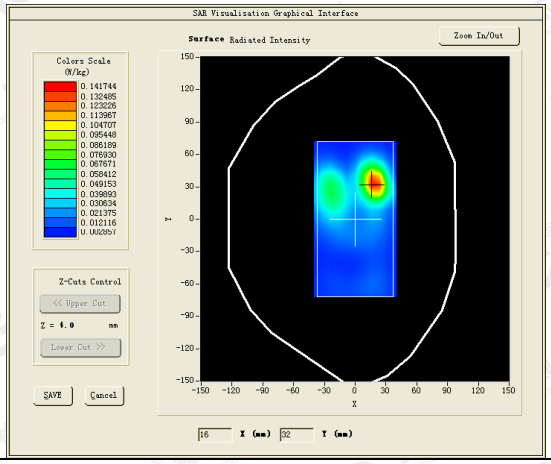
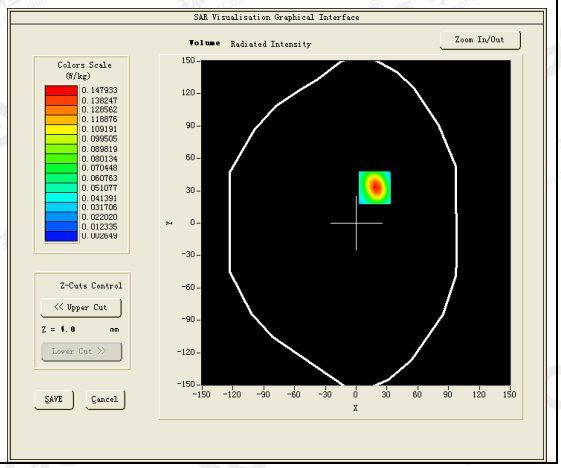
**Test Laboratory: AGC Lab** **Date: June 29,2018**
**802.11b High-Body-Worn- Back**
**DUT: Smartphone; Type: VOLT_5XL**

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=2.58;
Frequency: 2462 MHz; Medium parameters used: f = 2450 MHz; σ =1.95mho/m; εr =52.86; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃):21.9, Liquid temperature (℃): 21.5

SATIMO Configuration:
- Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

**Configuration/802.11b High- Body- Back /Area Scan:** Measurement grid: dx=8mm, dy=8mm
**Configuration/802.11b High- Body- Back /Zoom Scan:** Measurement grid: dx=5mm,dy=5mm, dz=5mm;

| | |
|---|---|
| **Area Scan** | sam_direct_droit2_surf8mm.txt |
| **ZoomScan** | 7x7x7,dx=5mm dy=5mm dz=5mm |
| **Phantom** | Validation plane |
| **Device Position** | Body Back |
| **Band** | 2450MHz |
| **Channels** | High |
| **Signal** | Crest factor: 1.0 |

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



**Maximum location: X=18.00, Y=33.00**
**SAR Peak: 0.24 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.063799 |
| **SAR 1g (W/Kg)** | 0.134964 |

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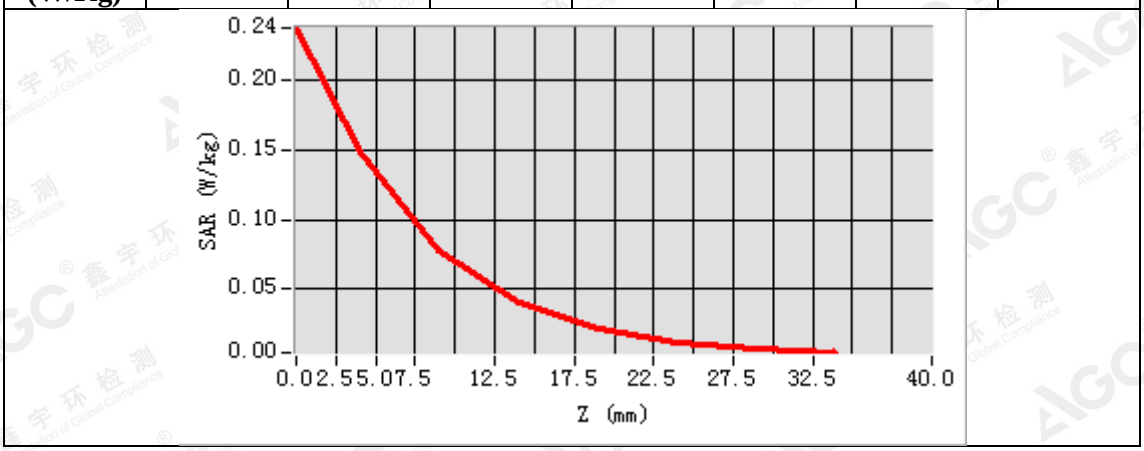
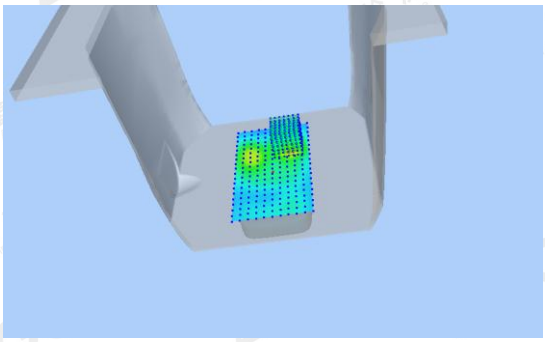
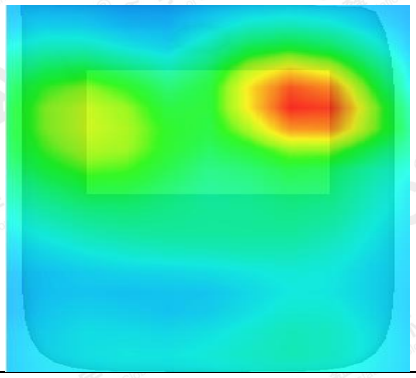
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
|---|---|---|---|---|---|---|---|
| SAR (W/Kg) | 0.2375 | 0.1479 | 0.0782 | 0.0406 | 0.0216 | 0.0117 | 0.0072 |




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

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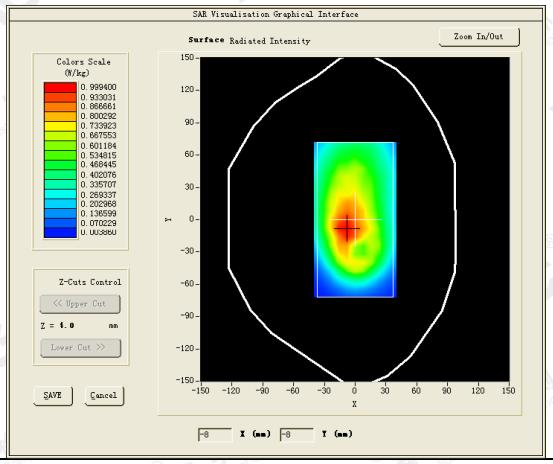
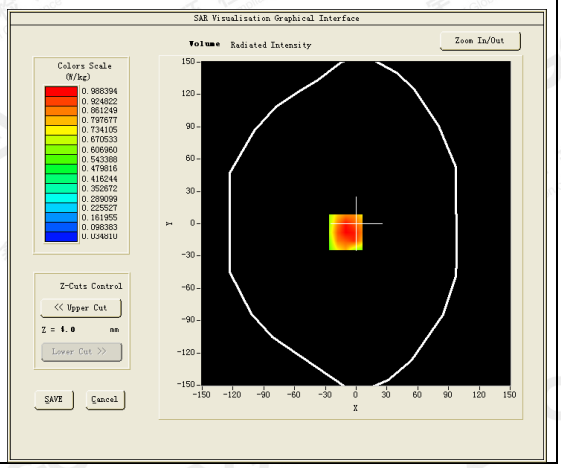
**Repeated SAR**
**Test Laboratory: AGC Lab** **Date: July 05,2018**
**GPRS 850 Low- Body- Back (3up)**
**DUT: Smartphone; Type: VOLT_5XL**

Communication System: GPRS-3 Slot; Communication System Band: GSM 850; Duty Cycle: 1:2.7; Conv.F=1.81; Frequency: 824.2 MHz; Medium parameters used: f = 835 MHz; σ= 0.93 mho/m; εr = 56.38; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 22.1, Liquid temperature (℃): 21.5

SATIMO Configuration:
- Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

**Configuration/GPRS 850 Low-Body-Back/Area Scan:** Measurement grid: dx=8mm, dy=8mm
**Configuration/GPRS 850 Low-Body-Back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

| | |
|---|---|
| **Area Scan** | sam_direct_droit2_surf8mm.txt |
| **Zoom Scan** | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| **Phantom** | Validation plane |
| **Device Position** | Body Back |
| **Band** | GSM 850 |
| **Channels** | Low |
| **Signal** | TDMA (Crest factor: 2.7) |

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



**Maximum location: X=-10.00, Y=-8.00**
**SAR Peak: 1.41 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.667232 |
| **SAR 1g (W/Kg)** | 0.973166 |

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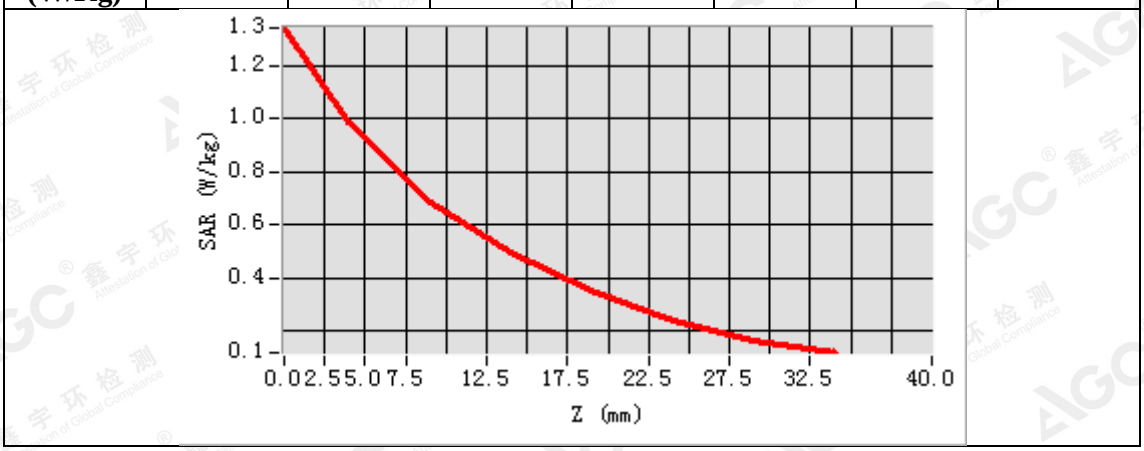
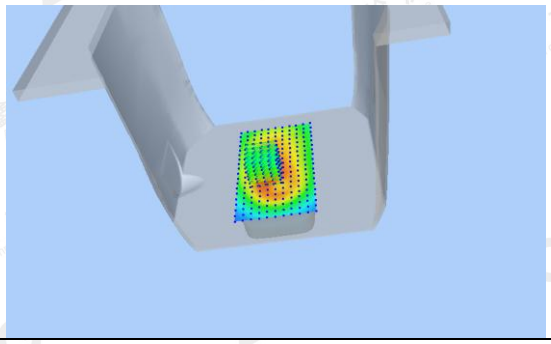
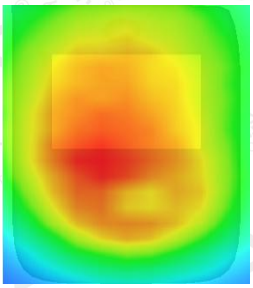
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
|---|---|---|---|---|---|---|---|
| SAR (W/Kg) | 1.3443 | 0.9884 | 0.6843 | 0.4986 | 0.3531 | 0.2368 | 0.1641 |




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

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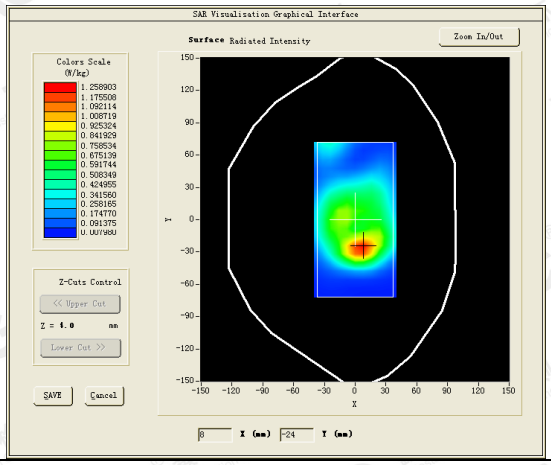
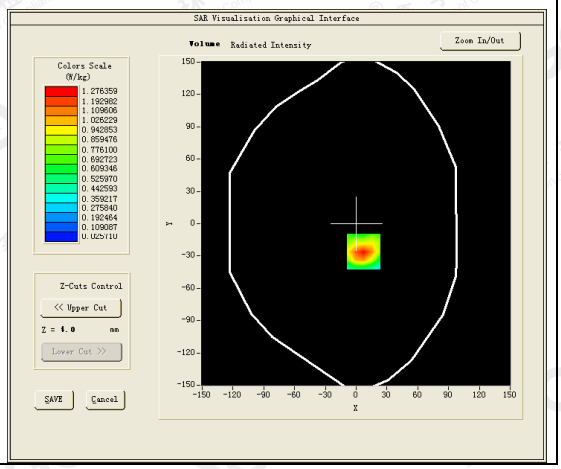
**Test Laboratory: AGC Lab** **Date: July 04,2018**
**GPRS 1900 Low-Body-Back (4up)-earphone**
**DUT: Smartphone; Type: VOLT_5XL**

Communication System: GPRS-4Slot; Communication System Band: PCS 1900; Duty Cycle: 1:2.1; Conv.F=2.39; Frequency: 1850.2 MHz; Medium parameters used: f = 1900 MHz; σ= 1.46 mho/m; εr =55.11; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 22.3, Liquid temperature (℃): 21.9

SATIMO Configuration:
- Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

**Configuration/GPRS1900 Low-Body-Back/Area Scan:** Measurement grid: dx=8mm, dy=8mm
**Configuration/GPRS1900 Low-Body-Back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

| | |
|---|---|
| **Area Scan** | sam_direct_droit2_surf8mm.txt |
| **Zoom Scan** | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| **Phantom** | Validation plane |
| **Device Position** | Body Back |
| **Band** | PCS 1900 |
| **Channels** | Low |
| **Signal** | TDMA (Crest factor: 2.0) |

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





**Maximum location: X=7.00, Y=-26.00**
**SAR Peak: 1.90 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.652848 |
| **SAR 1g (W/Kg)** | 1.194634 |

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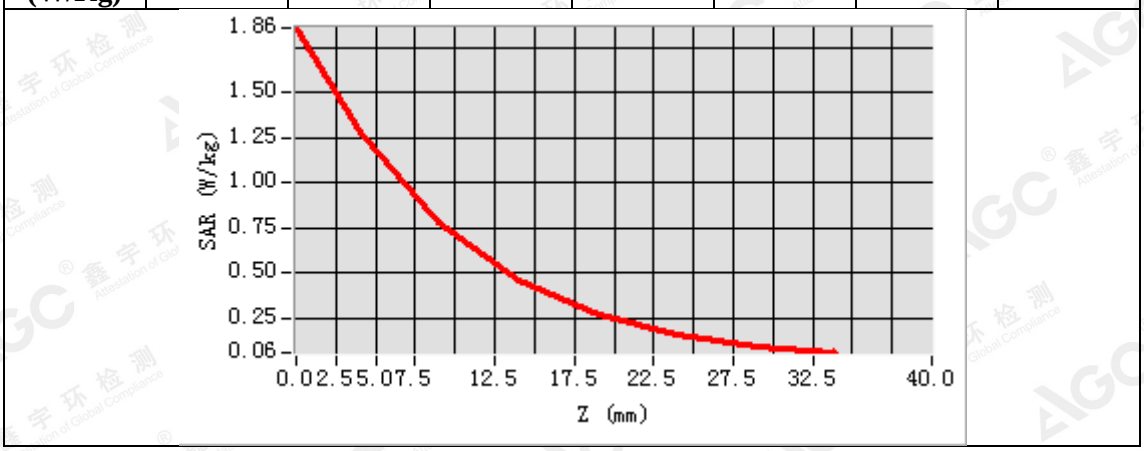
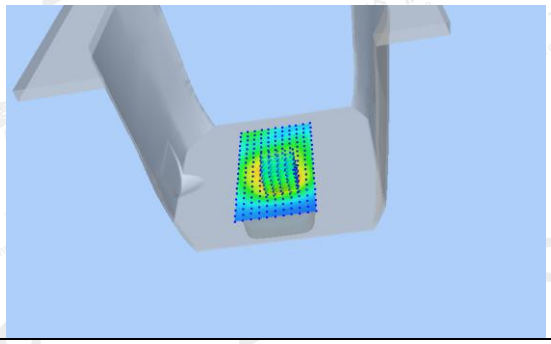
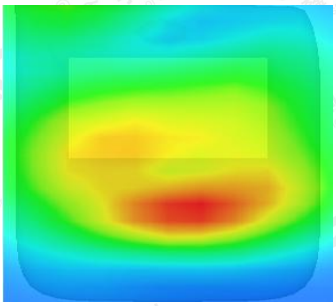
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
|---|---|---|---|---|---|---|---|
| SAR (W/Kg) | 1.8572 | 1.2764 | 0.7787 | 0.4555 | 0.2710 | 0.1629 | 0.0957 |




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

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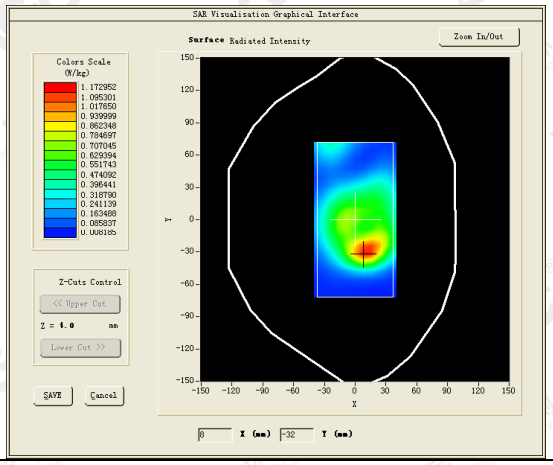
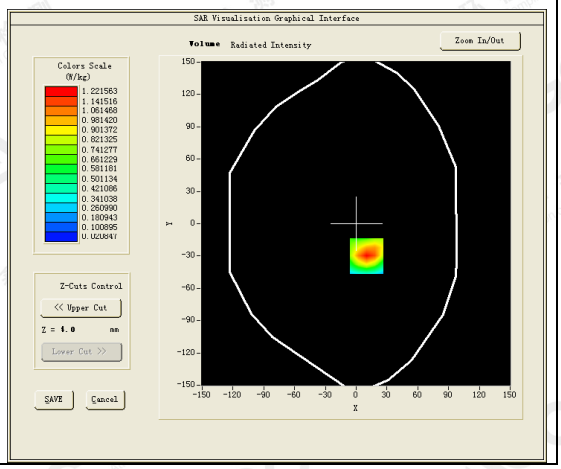
**Test Laboratory: AGC Lab** **Date: July 04,2018**
**WCDMA Band II Low-Body-Towards Grounds (RMC 12.2kbps)**
**DUT: Smartphone; Type: VOLT_5XL**

Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=2.39;
Frequency: 1852.4 MHz; Medium parameters used: f = 1900 MHz; σ=1.48 mho/m; εr =54.63; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 22.3, Liquid temperature (℃): 21.9

SATIMO Configuration:
- Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

**Configuration/ WCDMA band II Low-Body-back/Area Scan:** Measurement grid: dx=8mm, dy=8mm
**Configuration/ WCDMA band II Low-Body-back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5m;

| | |
|---|---|
| **Area Scan** | sam_direct_droit2_surf8mm.txt |
| **ZoomScan** | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| **Phantom** | Validation plane |
| **Device Position** | Body Back |
| **Band** | WCDMA band II |
| **Channels** | Low |
| **Signal** | CDMA (Crest factor: 1.0) |

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





**Maximum location: X=10.00, Y=-30.00**
**SAR Peak: 1.87 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.613439 |
| **SAR 1g (W/Kg)** | 1.143477 |

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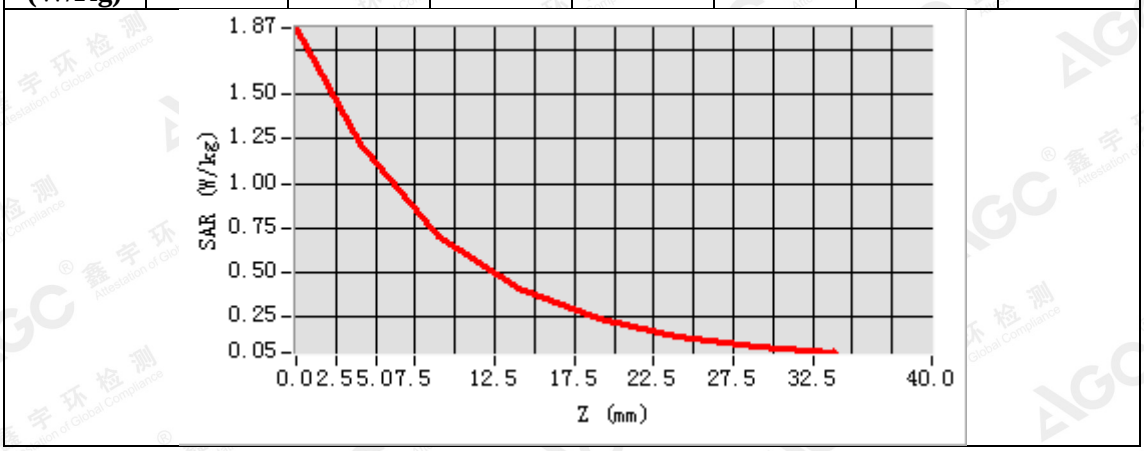
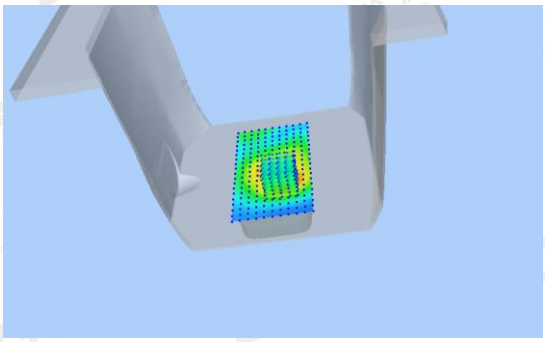
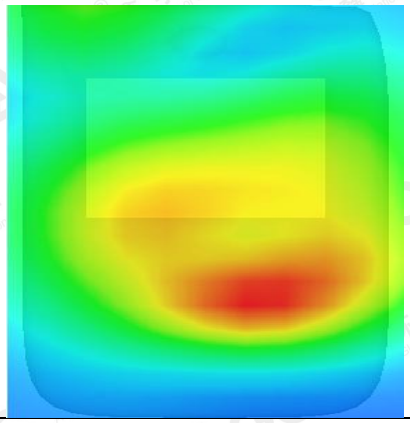
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
|---|---|---|---|---|---|---|---|
| SAR (W/Kg) | 1.8745 | 1.2216 | 0.6986 | 0.4043 | 0.2345 | 0.1367 | 0.0804 |




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

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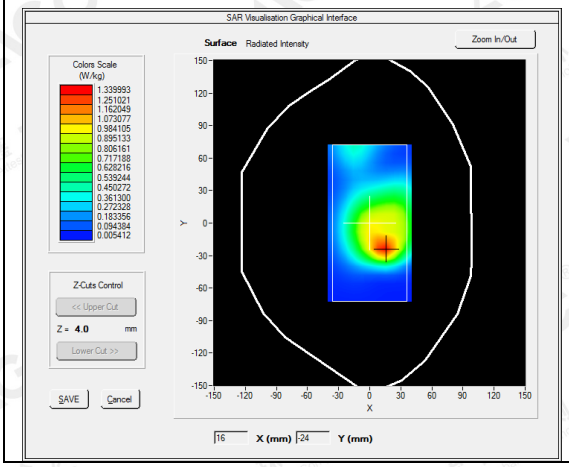
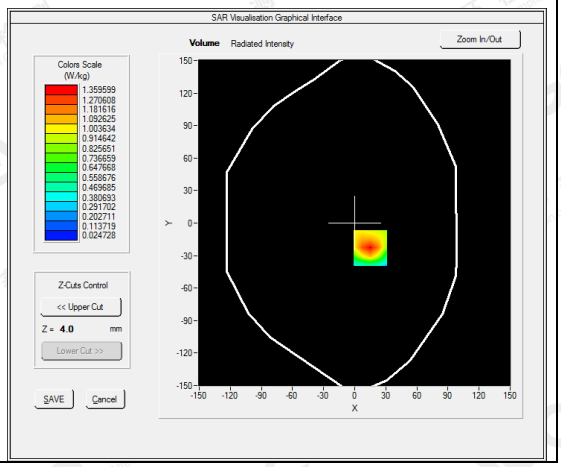
**Test Laboratory: AGC Lab** **Date: July 06,2018**
**WCDMA Band IV Low-Body-Towards Grounds (RMC)**
**DUT: Smartphone; Type: VOLT_5XL**

Communication System: UMTS; Communication System Band: BAND IV UTRA/FDD; Duty Cycle:1: 1; Conv.F=2.05; Frequency:1712.5MHz; Medium parameters used: f = 1750 MHz; σ= 1.44 mho/m; εr =55.05; ρ= 1000 kg/m³;
Phantom section: Flat Section
Ambient temperature (℃): 21.9, Liquid temperature (℃): 21.5

SATIMO Configuration:
- Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

**Configuration/ WCDMA Band IV Low-Body-Back/Area Scan:** Measurement grid: dx=8mm, dy=8mm
**Configuration/ WCDMA Band IV Low-Body-Back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

| | |
|---|---|
| **Area Scan** | sam_direct_droit2_surf8mm.txt |
| **ZoomScan** | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| **Phantom** | Validation plane |
| **Device Position** | Body Back |
| **Band** | WCDMA Band IV |
| **Channels** | Low |
| **Signal** | CDMA (Crest factor: 1.0) |

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





**Maximum location: X=15.00, Y=-23.00**
**SAR Peak: 2.04 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.718043 |
| **SAR 1g (W/Kg)** | 1.277363 |

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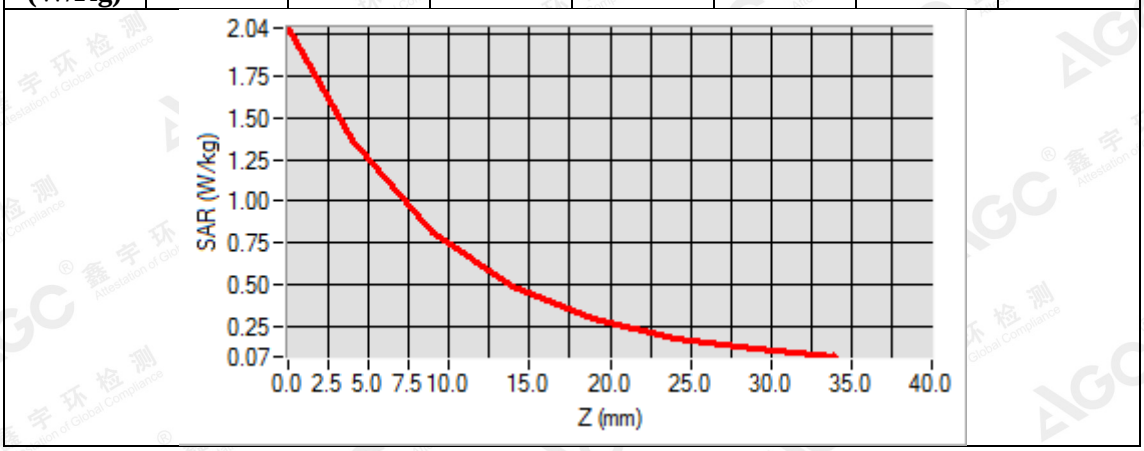
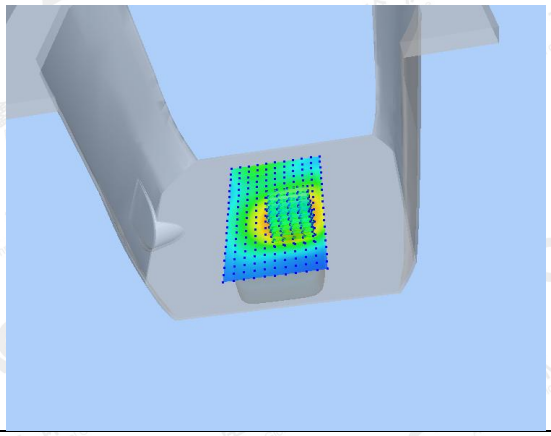
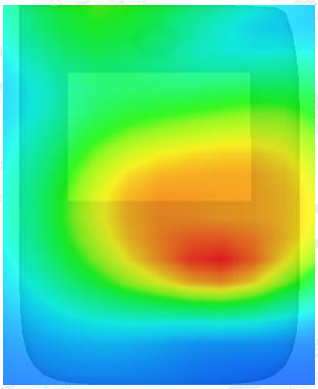
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
|---|---|---|---|---|---|---|---|
| SAR (W/Kg) | 2.0356 | 1.3596 | 0.8083 | 0.4917 | 0.2979 | 0.1813 | 0.1121 |




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

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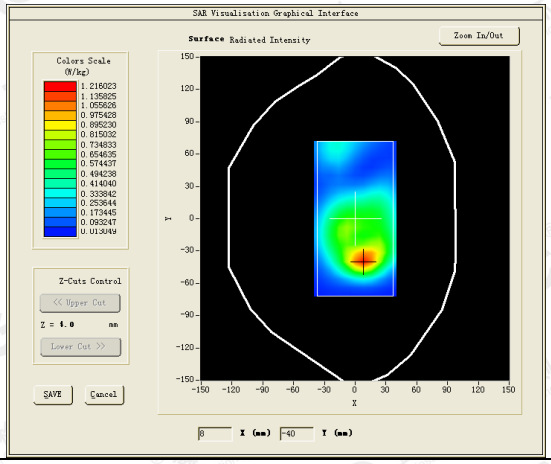
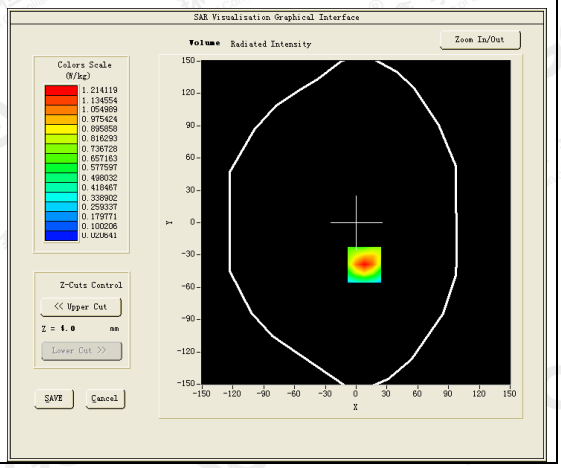
**Test Laboratory: AGC Lab** **Date: June 25,2018**
**LTE Band 2 Low-Body-Back (1 RB#0)**
**DUT: Smartphone; Type: VOLT_5XL**

Communication System: LTE; Communication System Band: LTE Band 2; Duty Cycle:1:1; Conv.F=2.39; Frequency:1860MHz; Medium parameters used: f = 1900 MHz; σ= 1.48 mho/m; εr =54.16; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.8, Liquid temperature (℃): 21.5

SATIMO Configuration:
- Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

**Configuration/ LTE Band 2 Low-Body-back/Area Scan:** Measurement grid: dx=8mm, dy=8mm
**Configuration/ LTE Band 2 Low-Body-back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5m;

| | |
|---|---|
| **Area Scan** | sam_direct_droit2_surf8mm.txt |
| **Zoom Scan** | 5x5x7,dx=8mm dy=8mm dz=5mm |
| **Phantom** | Validation plane |
| **Device Position** | Body Back |
| **Band** | LTE Band 2 |
| **Channels** | Low |
| **Signal** | OFDM (Crest factor: 1.0) |

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





**Maximum location: X=8.00, Y=-39.00**
**SAR Peak: 1.85 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.608360 |
| **SAR 1g (W/Kg)** | 1.132257 |

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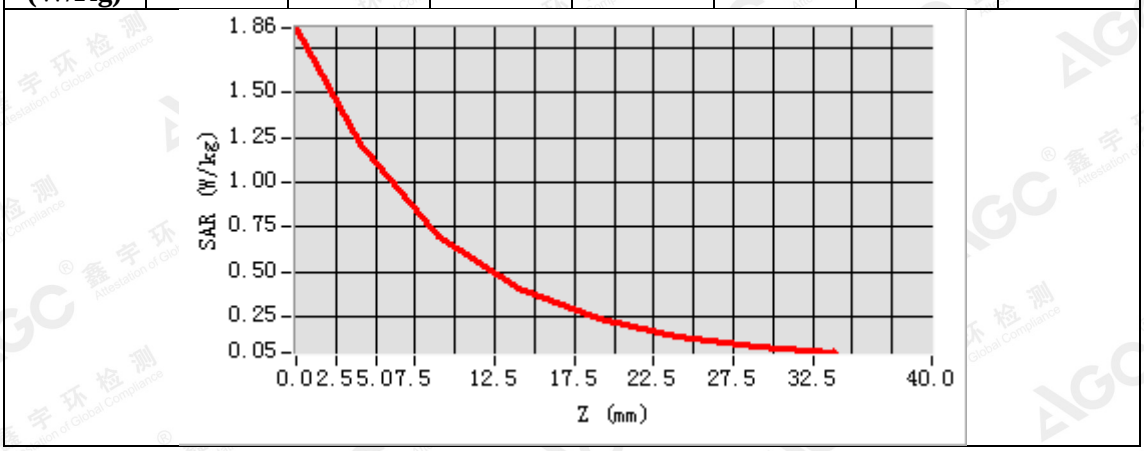
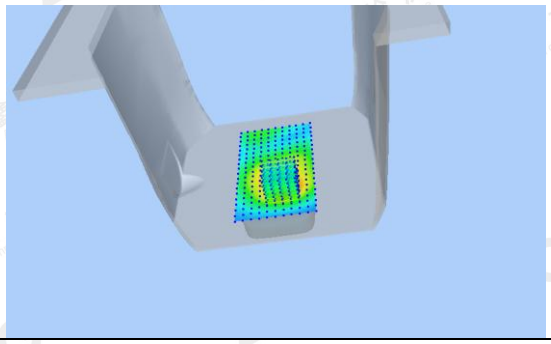
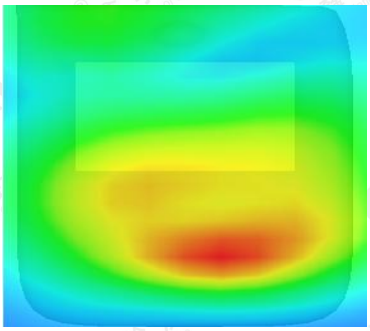
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
|---|---|---|---|---|---|---|---|
| SAR (W/Kg) | 1.8616 | 1.2141 | 0.6949 | 0.4035 | 0.2342 | 0.1371 | 0.0816 |




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

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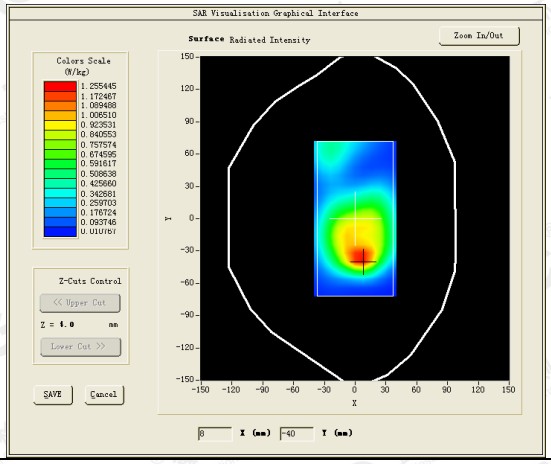
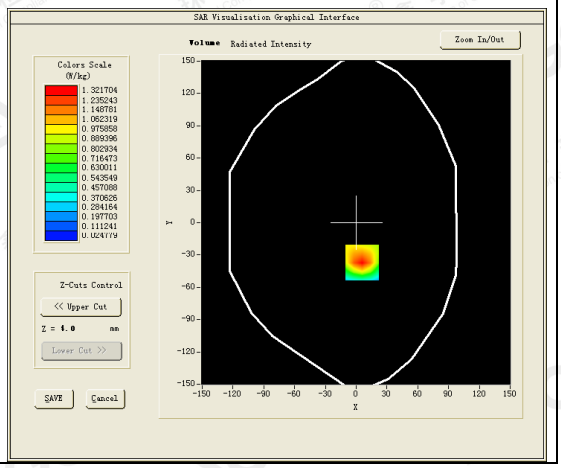
**Test Laboratory: AGC Lab** **Date: July 09,2018**
**LTE Band 4 Mid-Body-Back (1 RB#0)**
**DUT: Smartphone; Type: VOLT_5XL**

Communication System: LTE; Communication System Band: LTE Band 4; Duty Cycle:1:1; Conv.F=2.05; Frequency:1732.5 MHz; Medium parameters used: f = 1750 MHz; σ=1.47 mho/m; εr =54.26; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 23.1, Liquid temperature (℃): 22.6

SATIMO Configuration:
- Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

**Configuration/ LTE Band 4 Mid-Body-back/Area Scan:** Measurement grid: dx=8mm, dy=8mm
**Configuration/ LTE Band 4 Mid-Body-back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5m;

| | |
|---|---|
| **Area Scan** | sam_direct_droit2_surf8mm.txt |
| **Zoom Scan** | 5x5x7,dx=8mm dy=8mm dz=5mm |
| **Phantom** | Validation plane |
| **Device Position** | Body Back |
| **Band** | LTE Band 4 |
| **Channels** | Middle |
| **Signal** | OFDM (Crest factor: 1.0) |

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



**Maximum location: X=6.00, Y=-37.00**
**SAR Peak: 1.97 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.698639 |
| **SAR 1g (W/Kg)** | 1.237849 |

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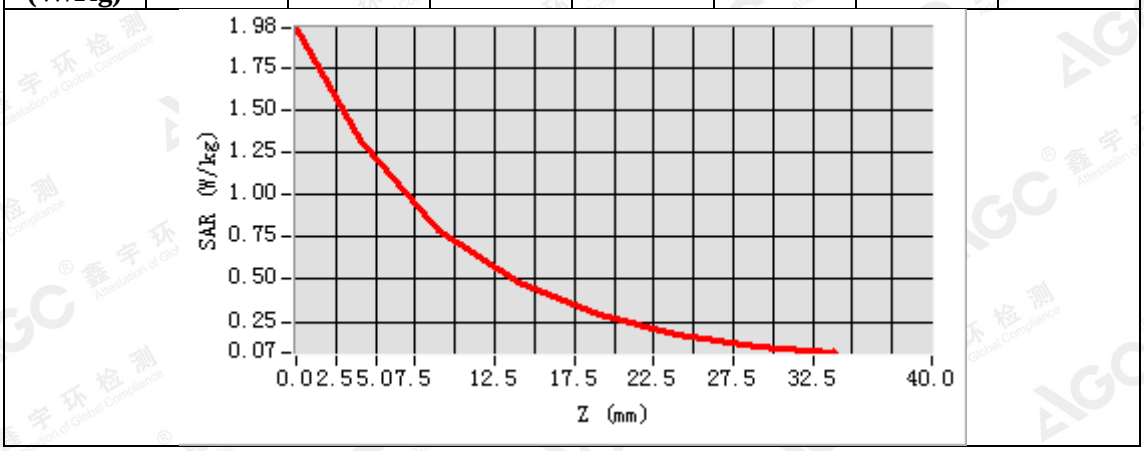
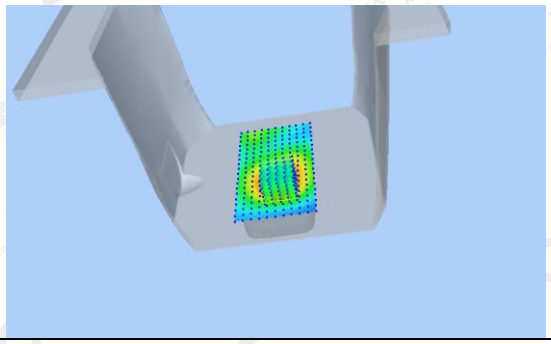
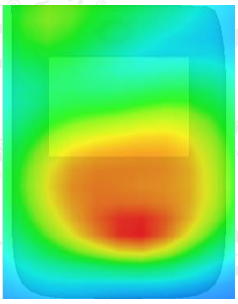
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
|---|---|---|---|---|---|---|---|
| SAR (W/Kg) | 1.9844 | 1.3217 | 0.7836 | 0.4767 | 0.2889 | 0.1753 | 0.1079 |




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

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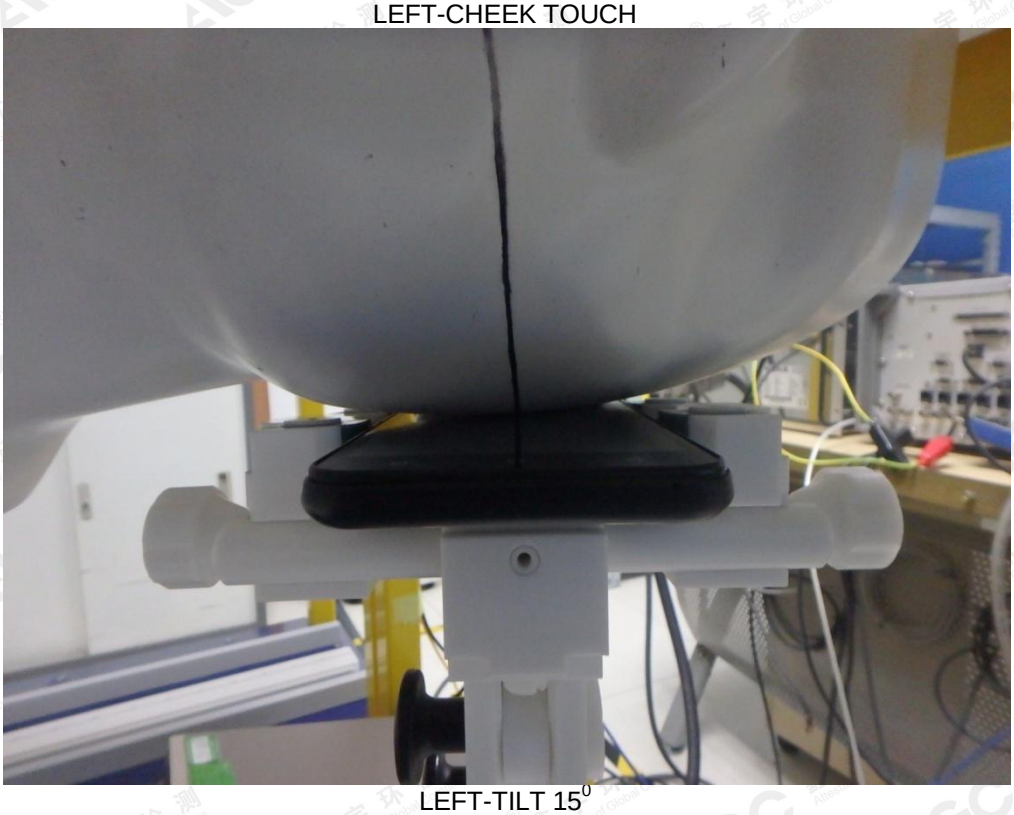
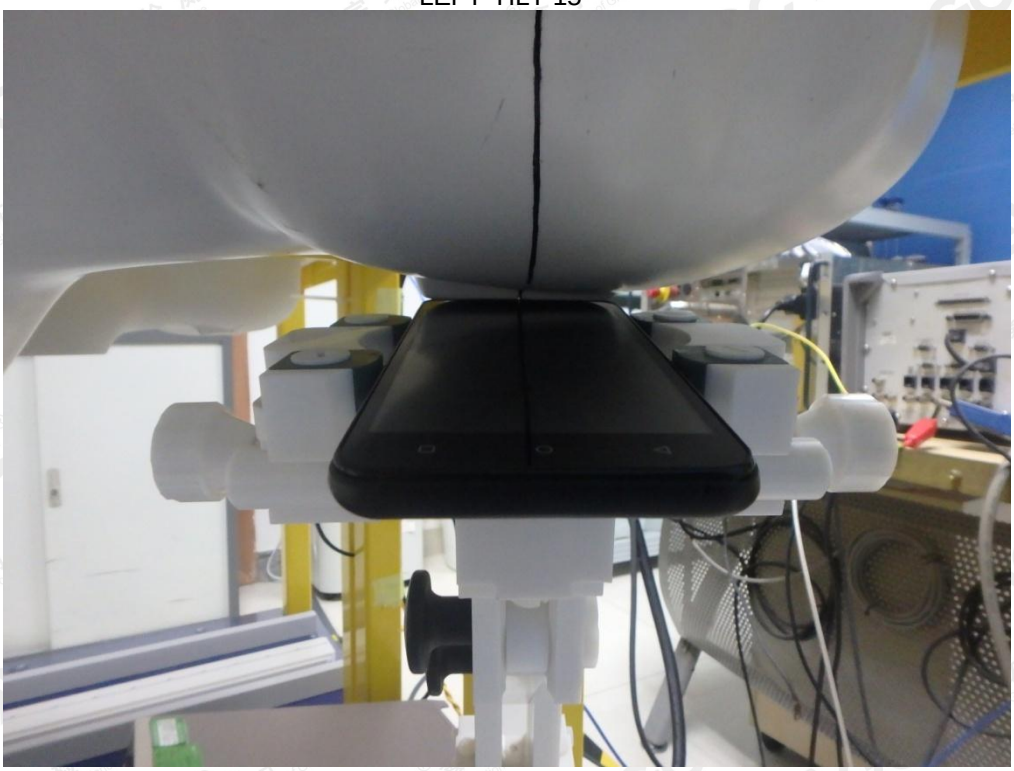
# APPENDIX C. TEST SETUP PHOTOGRAPHS

LEFT-CHEEK TOUCH



LEFT-TILT 15$^0$



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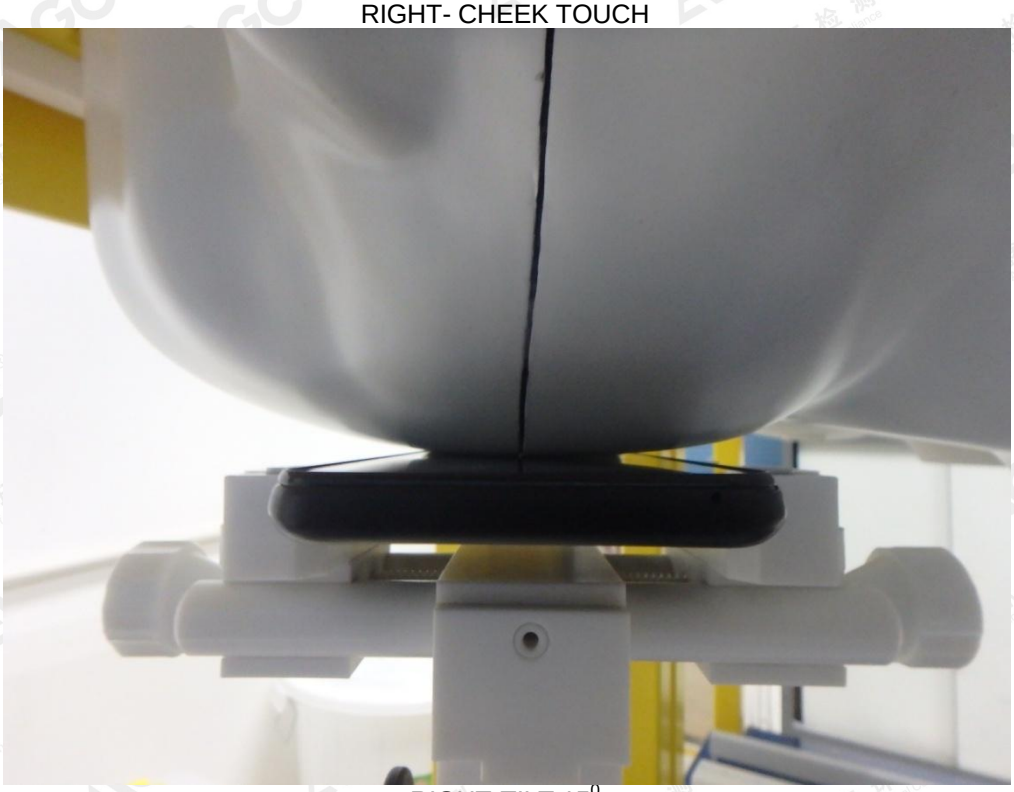
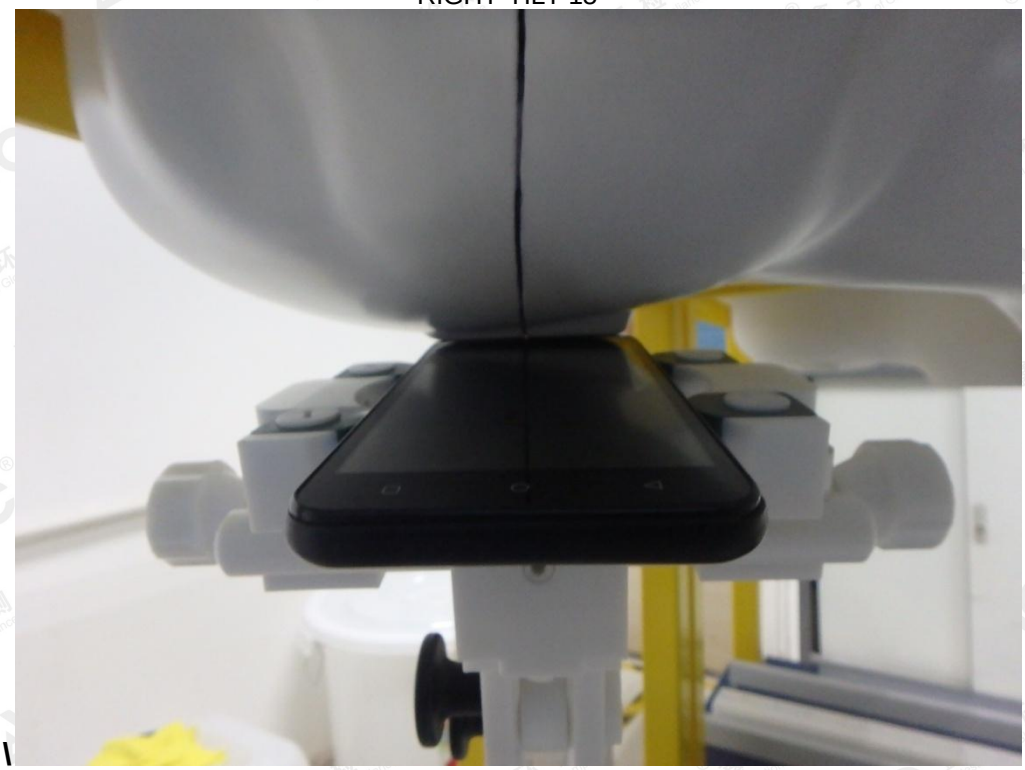
RIGHT- CHEEK TOUCH



RIGHT-TILT 15$^0$



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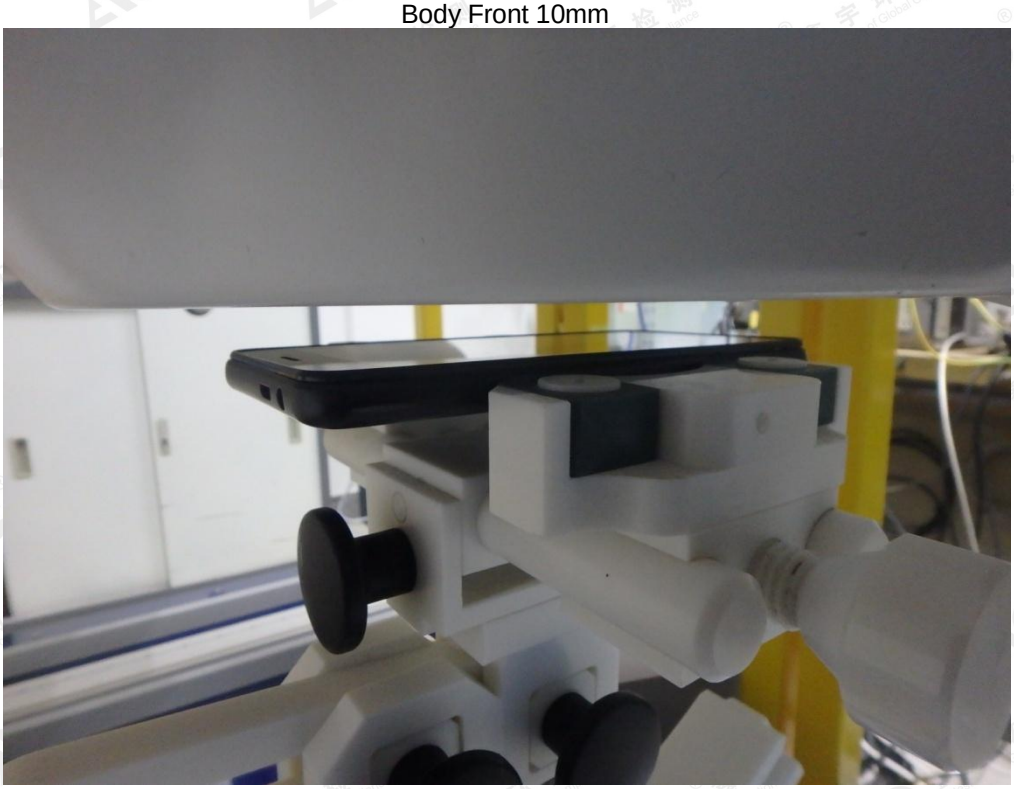
Body Back 10mm

Body Front 10mm



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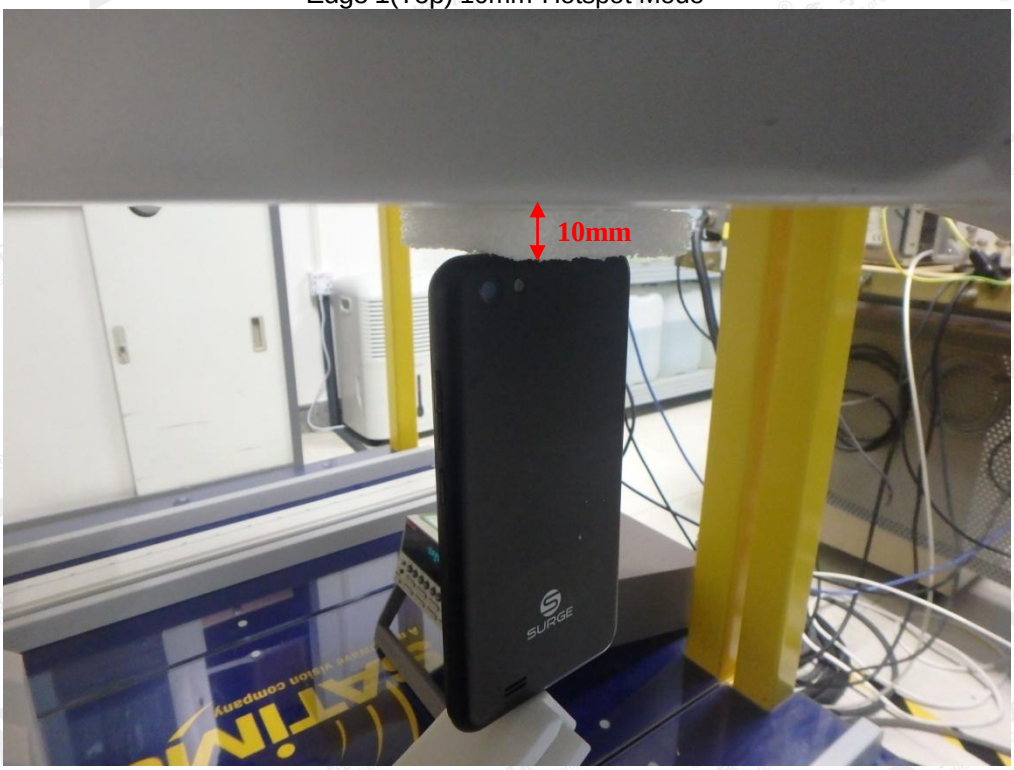
Body Back with headset 10mm

Edge 1(Top) 10mm-Hotspot Mode




Edge 2(Right) 10mm-Hotspot Mode

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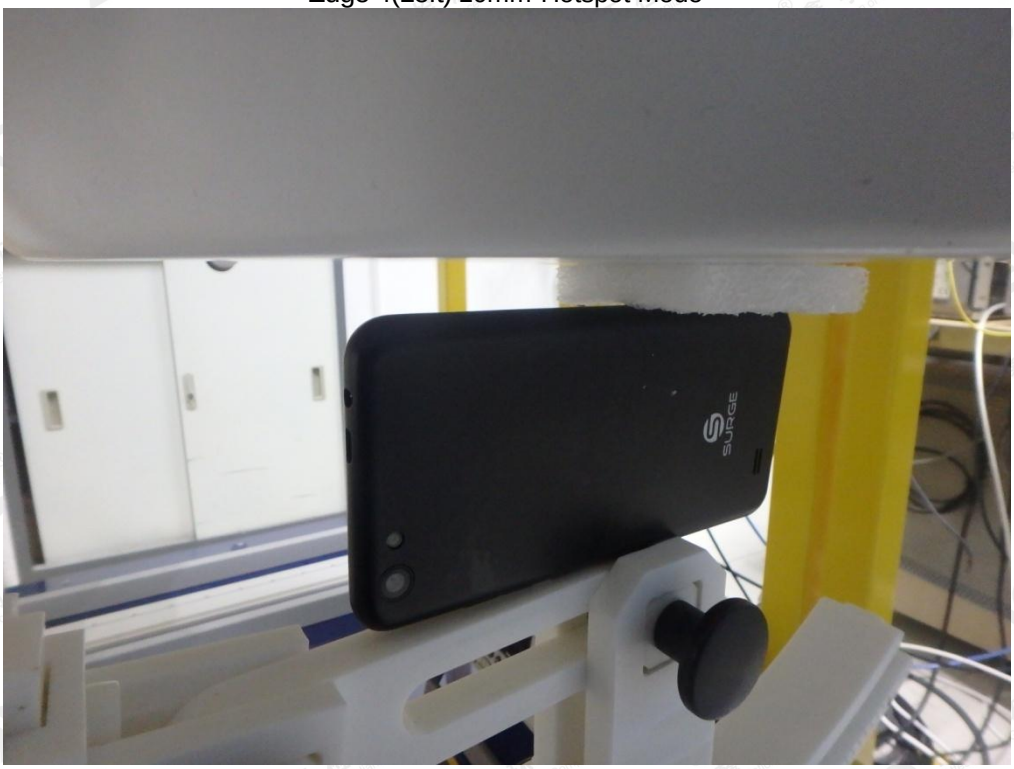
Edge 3(Bottom) 10mm-Hotspot Mode

Edge 4(Left) 10mm-Hotspot Mode

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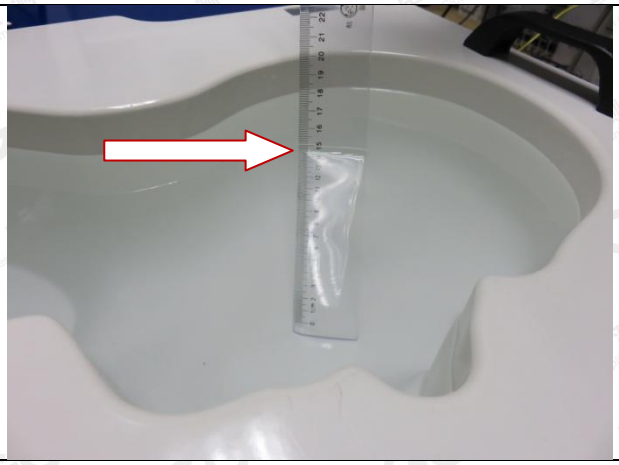
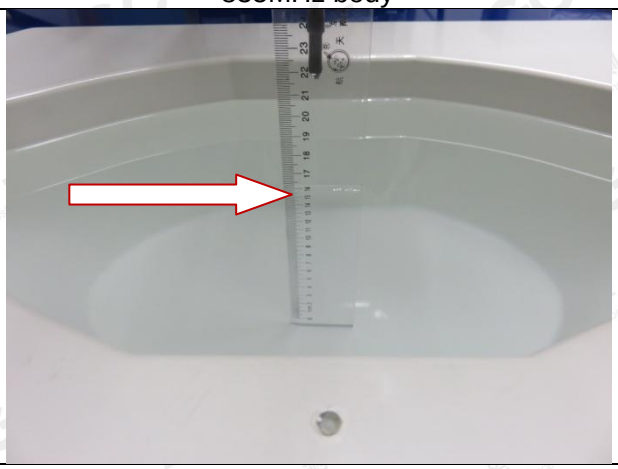
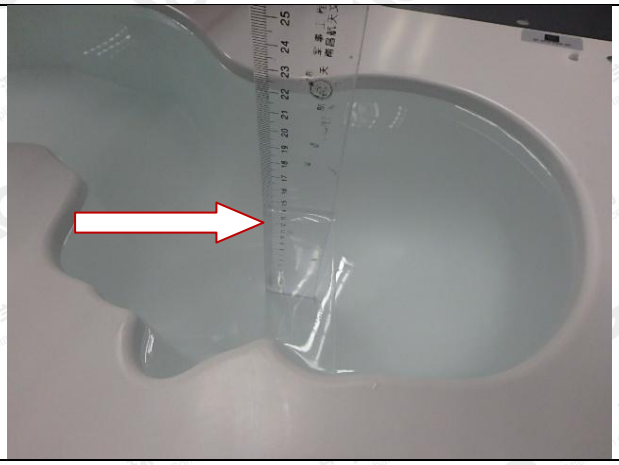
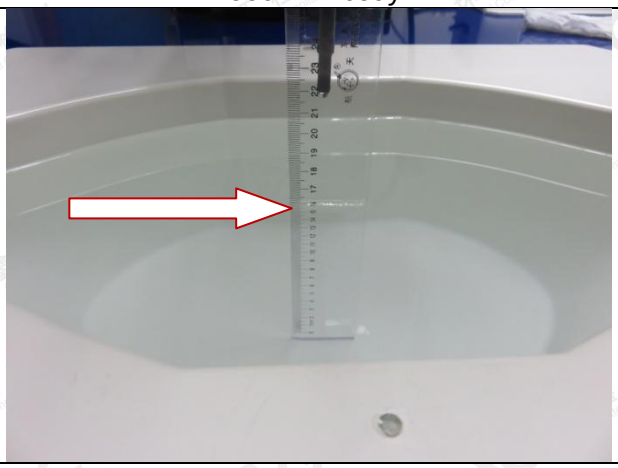
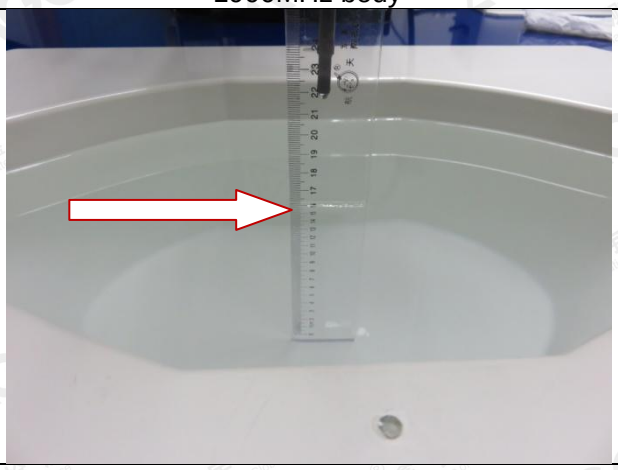
## DEPTH OF THE LIQUID IN THE PHANTOM—ZOOM IN

Note：The position used in the measurement were according to IEEE 1528-2013

| 835MHz head | 835MHz body |
|---|---|
|  |  |
| 1900MHz head | 1900MHz body |
|  |  |
| 1900MHz head | 1900MHz body |
| |  |

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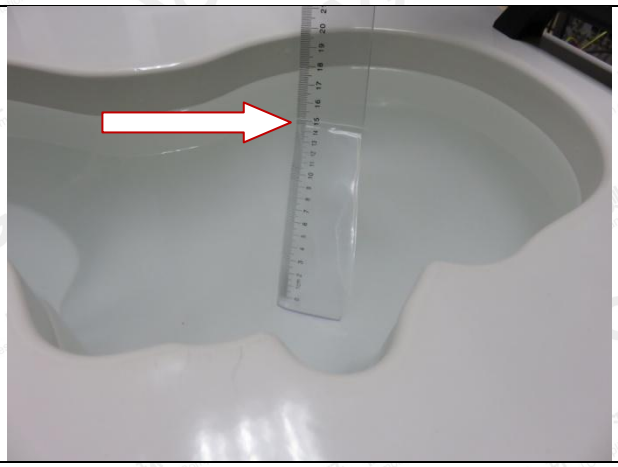
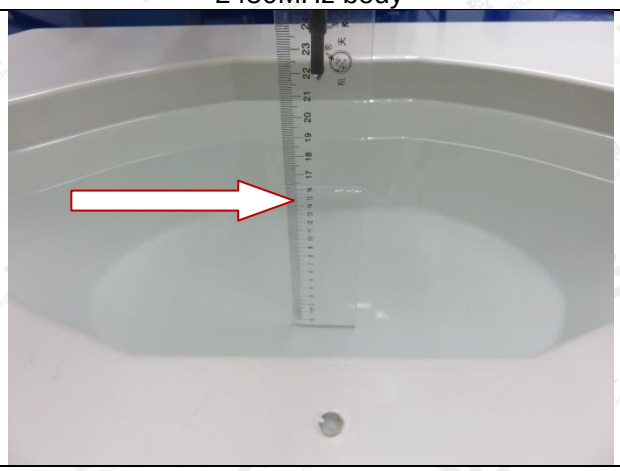
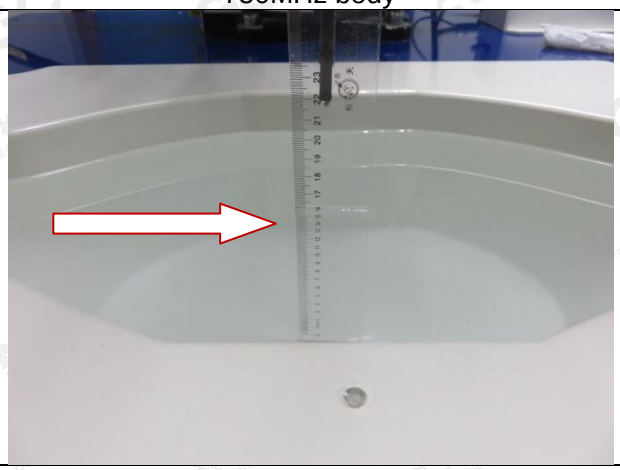
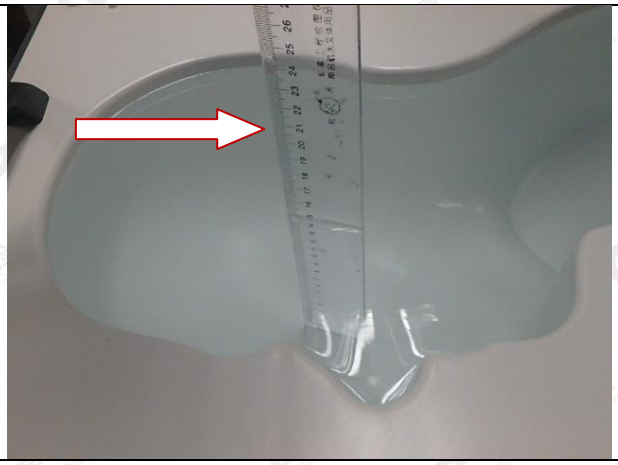
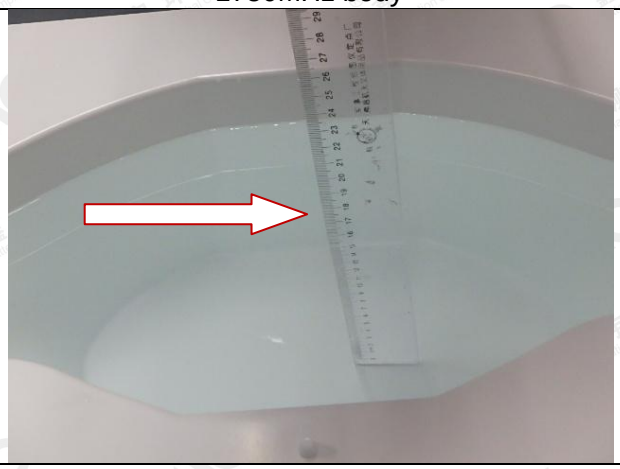
| 2450MHz head | 2450MHz body |
|---|---|
|  |  |
| 750MHz head | 750MHz body |
| |  |
| 1750MHz head | 1750MHz body |
|  |  |

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# APPENDIX D. CALIBRATION DATA

Refer to Attached files.

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