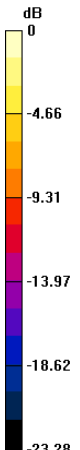
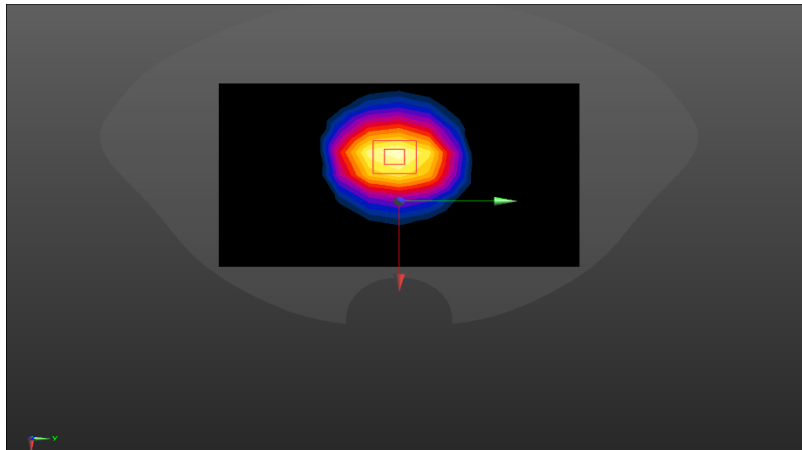


ANNEX A – TEST PLOTS

Head liquid

| System check | 835MHz |
|---|--------|
| <p>Communication System: UID 0, CW (0); Frequency: 835 MHz Medium parameters used (interpolated): $f = 835 \text{ MHz}$; $\sigma = 0.915 \text{ S/m}$; $\epsilon_r = 41.114$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> • Probe: ES3DV3 - SN3127; ConvF(6.15, 6.15, 6.15); Calibrated: 2017/10/11; • Sensor-Surface: 3mm (Mechanical Surface Detection) • Electronics: DAE4 Sn546; Calibrated: 2017/9/15 • Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx • Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) <p>Configuration 835/835/Area Scan (8x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 2.87 W/kg</p> <p>Configuration 835/835/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 52.13 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 3.66 W/kg SAR(1 g) = 2.29 W/kg; SAR(10 g) = 1.55 W/kg Maximum value of SAR (measured) = 2.67 W/kg</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p style="text-align: center;">dB</p> <p style="text-align: center;">0 -2.17 -4.34 -6.52 -8.69 -10.86</p> </div> <div> </div> </div> <p style="text-align: center;">$0 \text{ dB} = 2.67 \text{ W/kg} = 4.27 \text{ dBW/kg}$</p> | |

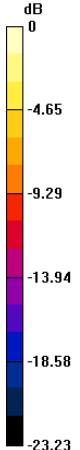
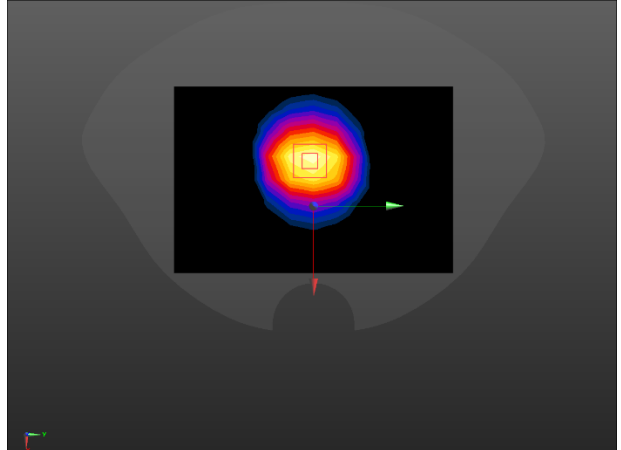
| System check | 1800MHz |
|--|---------|
| <p>Communication System: UID 0, CW (0); Frequency: 1800 MHz Medium parameters used: $f = 1800 \text{ MHz}$; $\sigma = 1.411 \text{ S/m}$; $\epsilon_r = 40.607$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(5.06, 5.06, 5.06); Calibrated: 2017/10/11; Sensor-Surface: 3mm (Mechanical Surface Detection) Electronics: DAE4 Sn546; Calibrated: 2017/9/15 Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) <p>Configuration 1800/1800/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 8.31 W/kg</p> <p>Configuration 1800/1800/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 76.60 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 17.5 W/kg SAR(1 g) = 9.46 W/kg; SAR(10 g) = 4.96 W/kg Maximum value of SAR (measured) = 12.1 W/kg</p> <div data-bbox="268 1249 1321 1713"> </div> | |

| System check | 2450MHz |
|---|---------|
| <p>Communication System: UID 0, CW (0); Communication System Band: D2450 (2450.0 MHz); Frequency: 2450 MHz Medium parameters used: $f = 2450$ MHz; $\sigma = 1.833$ S/m; $\epsilon_r = 39.583$; $\rho = 1000$ kg/m³ Phantom section: Flat Section</p> | |
| <p>DASY Configuration:</p> | |
| <ul style="list-style-type: none"> • Probe: ES3DV3 - SN3127; ConvF(4.58, 4.58, 4.58); Calibrated: 2017/10/11; • Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$ • Electronics: DAE4 Sn546; Calibrated: 2017/9/15 • Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)System Performance Check at Frequencies 2450MHz Head/d=10mm, Pin=250 mW, dist=4.0mm (EX-Probe)/Area Scan (9x13x1): Measurement grid: $dx=12$mm, $dy=12$mm Maximum value of SAR (measured) = 21.87 W/kg System Performance Check at Frequencies 2450MHz Head/d=10mm, Pin=250 mW, dist=4.0mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 98.95 V/m; Power Drift = 0.14 dB Peak SAR (extrapolated) = 27.9 W/kg SAR(1 g) = 12.8 W/kg; SAR(10 g) = 5.96 W/kg Maximum value of SAR (measured) = 12.56 W/kg | |
| <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p>dB</p>  </div> <div style="flex-grow: 1;">  </div> </div> <p style="text-align: center;">0 dB = 12.56 W/kg = 10.99 dBW/kg</p> | |

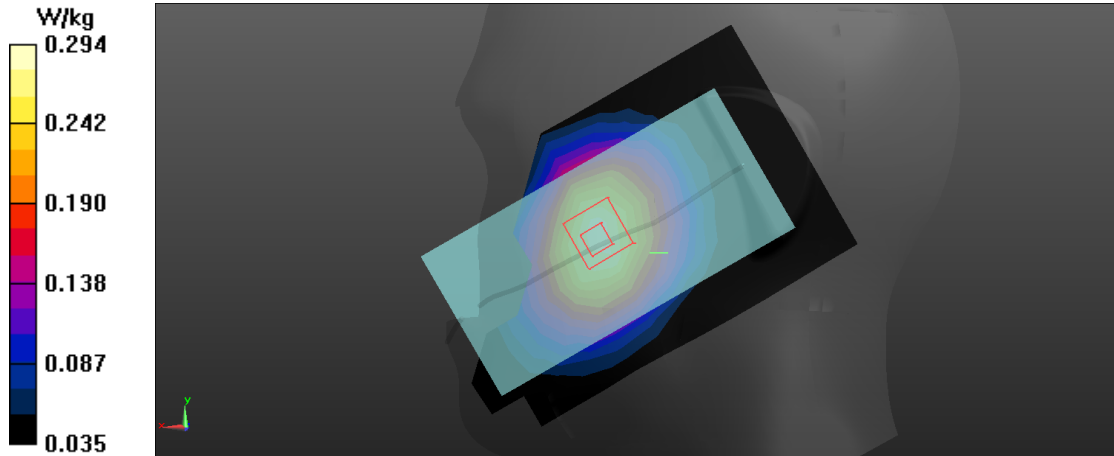
Body liquid

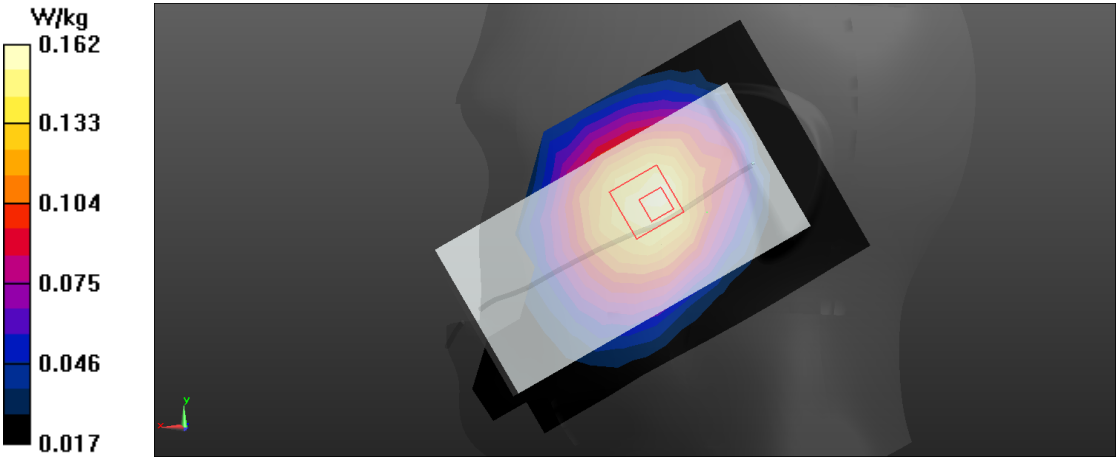
| System check | 835MHz |
|---|--------|
| <p>Communication System: UID 0, CW (0); Frequency: 835 MHz Medium parameters used (interpolated): $f = 835 \text{ MHz}$; $\sigma = 0.966 \text{ S/m}$; $\epsilon_r = 56.196$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(6.06, 6.06, 6.06); Calibrated: 10/11/2017; Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection) Electronics: DAE4 Sn546; Calibrated: 10/23/2017 Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) <p>Configuration 835/835/Area Scan (8x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 2.57 W/kg Configuration 835/835/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 51.34 V/m; Power Drift = 0.12 dB Peak SAR (extrapolated) = 3.26 W/kg SAR(1 g) = 2.28 W/kg; SAR(10 g) = 1.49 W/kg Maximum value of SAR (measured) = 2.58 W/kg</p> <div data-bbox="316 1377 1276 1832"> </div> <p>0 dB = 2.58 W/kg = 4.11 dBW/kg</p> | |

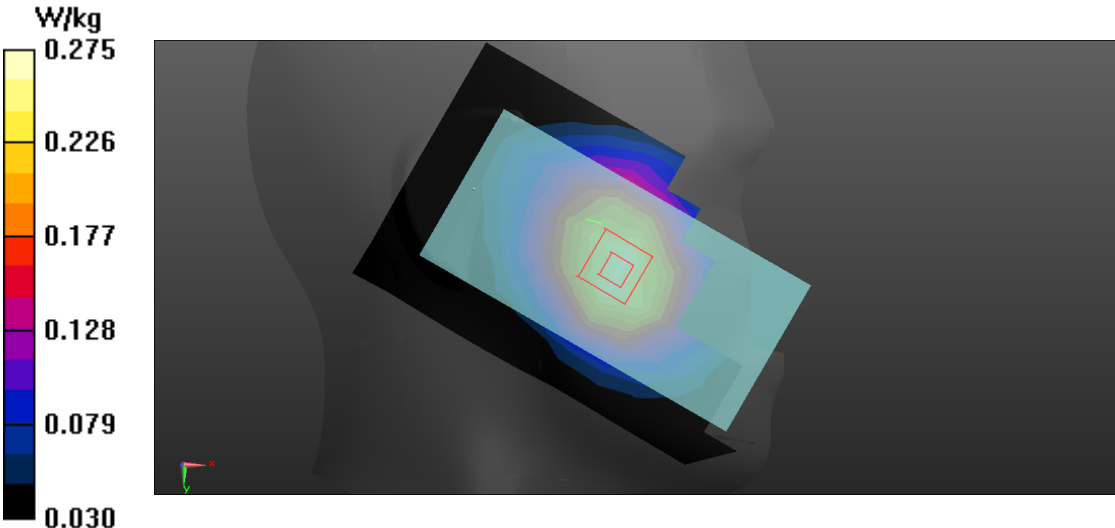
| System check | 1800MHz |
|--|---------|
| <p>Communication System: UID 0, CW (0); Frequency: 1800 MHz Medium parameters used: $f = 1800 \text{ MHz}$; $\sigma = 1.542 \text{ S/m}$; $\epsilon_r = 51.717$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(4.83, 4.83, 4.83); Calibrated: 2017/10/11; Sensor-Surface: 3mm (Mechanical Surface Detection) Electronics: DAE4 Sn546; Calibrated: 2017/9/15 Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx <ul style="list-style-type: none"> Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Configuration 1800/1800/Area Scan (8x10x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 11.5 W/kg Configuration 1800/1800/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 80.17 V/m; Power Drift = 0.15 dB Peak SAR (extrapolated) = 17.8 W/kg SAR(1 g) = 9.67 W/kg; SAR(10 g) = 5.03 W/kg Maximum value of SAR (measured) = 12.4 W/kg <div data-bbox="295 1332 1300 1792"> </div> <p>0 dB = 12.4 W/kg = 10.93 dBW/kg</p> | |

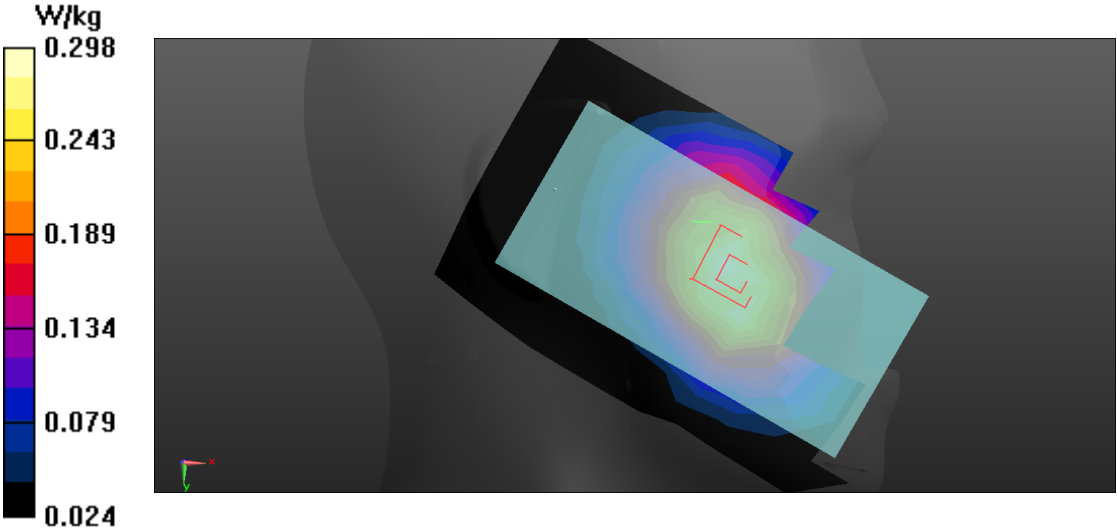
| System check | 2450MHz |
|---|---------|
| Communication System: UID 0, CW (0); Communication System Band: D2450 (2450.0 MHz); Frequency: 2450 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 2.027$ S/m; $\epsilon_r = 51.046$; $\rho = 1000$ kg/m ³ Phantom section: Flat Section | |
| DASY Configuration: | |
| <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(4.28, 4.28, 4.28); Calibrated: 2017/10/11; Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$ Electronics: DAE4 Sn546; Calibrated: 2017/9/15 Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) | |
| <p>System Performance Check at Frequencies 2450MHz Head/d=10mm, Pin=250 mW, dist=4.0mm (EX-Probe)/Area Scan (9x13x1): Measurement grid: $dx=12$mm, $dy=12$mm</p> | |
| <p>Maximum value of SAR (measured) = 13.4 W/kg</p> | |
| <p>System Performance Check at Frequencies 2450MHz Head/d=10mm, Pin=250 mW, dist=4.0mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm</p> | |
| <p>Reference Value = 62.29 V/m; Power Drift = 0.04 dB</p> | |
| <p>Peak SAR (extrapolated) = 29.3 W/kg</p> | |
| <p>SAR(1 g) = 13.3 W/kg; SAR(10 g) = 6.13 W/kg</p> | |
| <p>Maximum value of SAR (measured) = 18.9 W/kg</p> | |
| <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;">  <p>dB 0 -4.65 -9.29 -13.94 -18.58 -23.23</p> </div> <div style="flex-grow: 1;">  </div> </div> <p style="text-align: center;">0 dB = 18.9 W/kg = 12.76 dBW/kg</p> | |

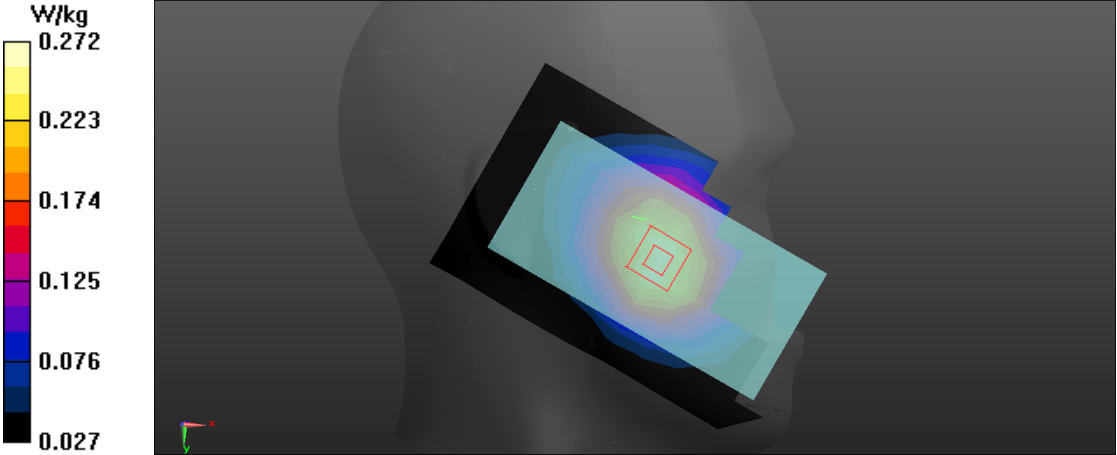
GSM (850MHz/Head)

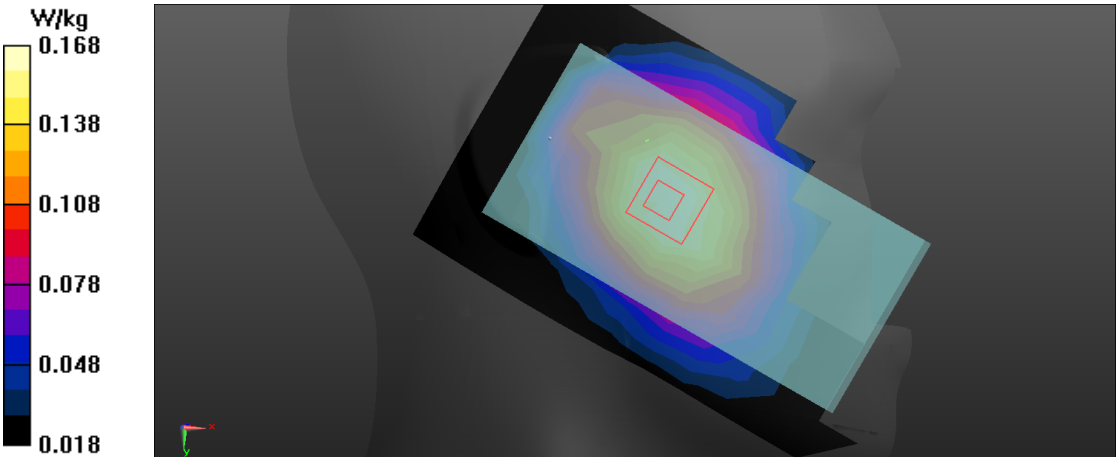
| Left Side | Cheek |
|---|-------|
| <p>Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz; Medium parameters used (interpolated): f = 836.6 MHz; $\sigma = 0.915$ S/m; $\epsilon_r = 41.114$; $\rho = 1000$ kg/m³ Phantom section: Left Section</p> | |
| <p>DASY5 Configuration:</p> | |
| <ul style="list-style-type: none"> • Probe: ES3DV3 - SN3127; ConvF(6.15, 6.15, 6.15); Calibrated: 2017/10/11; • Sensor-Surface: 3mm (Mechanical Surface Detection) • Electronics: DAE4 Sn546; Calibrated: 2017/9/15 • Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx • Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) | |
| <p>Head-Section Left HSL 850/850GSM HSL touch M/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.295 W/kg</p> | |
| <p>Head-Section Left HSL 850/850GSM HSL touch M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 4.846 V/m; Power Drift = -0.02 dB Peak SAR (extrapolated) = 0.333 W/kg SAR(1 g) = 0.266 W/kg; SAR(10 g) = 0.200 W/kg Maximum value of SAR (measured) = 0.294 W/kg</p> | |
|  | |

| Left Side | Tilt |
|--|------|
| <p>Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz; Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.915$ S/m; $\epsilon_r = 41.114$; $\rho = 1000$ kg/m³ Phantom section: Left Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(6.15, 6.15, 6.15); Calibrated: 2017/10/11; Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection) Electronics: DAE4 Sn546; Calibrated: 2017/9/15 Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) <p>Head-Section Left HSL 850/850GSM HSL tilt M/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.159 W/kg</p> <p>Head-Section Left HSL 850/850GSM HSL tilt M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 7.423 V/m; Power Drift = -0.05 dB Peak SAR (extrapolated) = 0.187 W/kg SAR(1 g) = 0.142 W/kg; SAR(10 g) = 0.107 W/kg Maximum value of SAR (measured) = 0.162 W/kg</p>  | |

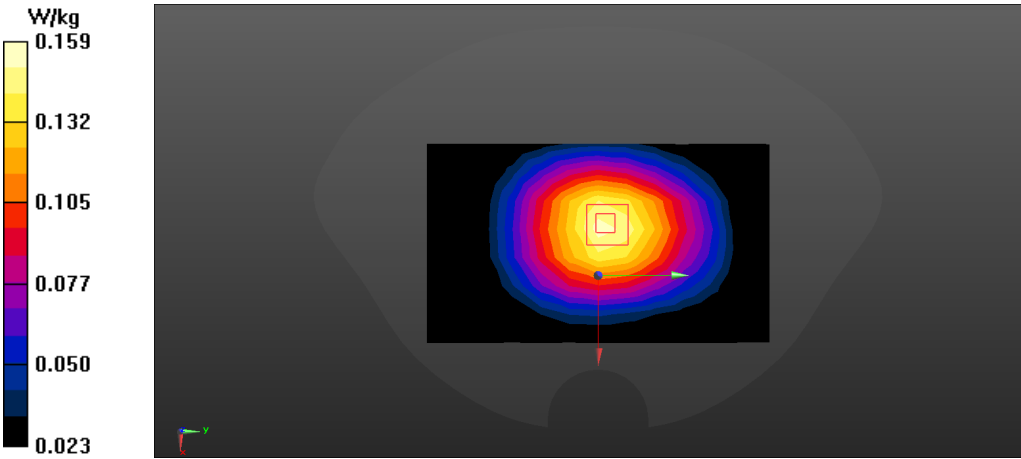
| Right Side | Cheek |
|--|-------|
| <p>Communication System: UID 0, Generic GSM (0); Frequency: 824.2 MHz; Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.909$ S/m; $\epsilon_r = 42.593$; $\rho = 1000$ kg/m³ Phantom section: Right Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(6.15, 6.15, 6.15); Calibrated: 2017/10/11; Sensor-Surface: 3mm (Mechanical Surface Detection) Electronics: DAE4 Sn546; Calibrated: 2017/9/15 Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) <p>Head-Section Right HSL 850/850GSM HSL touch L/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.263 W/kg</p> <p>Head-Section Right HSL 850/850GSM HSL touch L/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 6.718 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 0.321 W/kg SAR(1 g) = 0.247 W/kg; SAR(10 g) = 0.180 W/kg Maximum value of SAR (measured) = 0.275 W/kg</p>  | |

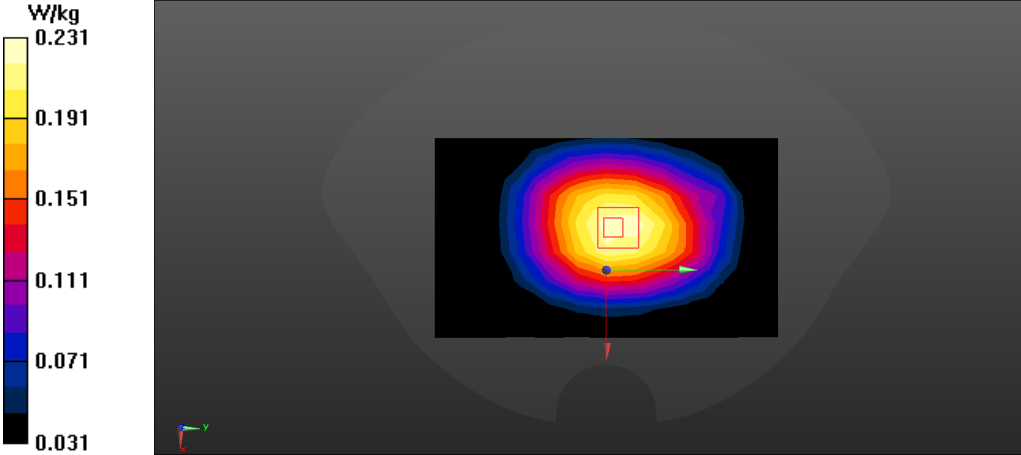
| Right Side | Cheek |
|--|-------|
| <p>Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz; Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.915$ S/m; $\epsilon_r = 41.114$; $\rho = 1000$ kg/m³ Phantom section: Right Section</p> | |
| <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(6.15, 6.15, 6.15); Calibrated: 2017/10/11; Sensor-Surface: 3mm (Mechanical Surface Detection) Electronics: DAE4 Sn546; Calibrated: 2017/9/15 Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) <p>Head-Section Right HSL 850/850GSM HSL touch M/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.292 W/kg</p> <p>Head-Section Right HSL 850/850GSM HSL touch M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 3.837 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 0.338 W/kg SAR(1 g) = 0.270 W/kg; SAR(10 g) = 0.204 W/kg Maximum value of SAR (measured) = 0.298 W/kg</p> | |
|  | |

| Right Side | Cheek |
|---|-------|
| <p>Communication System: UID 0, Generic GSM (0); Frequency: 848.6 MHz; Medium parameters used (interpolated): $f = 848.6$ MHz; $\sigma = 0.916$ S/m; $\epsilon_r = 42.449$; $\rho = 1000$ kg/m³ Phantom section: Right Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(6.15, 6.15, 6.15); Calibrated: 2017/10/11; Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection) Electronics: DAE4 Sn546; Calibrated: 2017/9/15 Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) <p>Head-Section Right HSL 850/850GSM HSL touch H/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.260 W/kg</p> <p>Head-Section Right HSL 850/850GSM HSL touch H/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 6.300 V/m; Power Drift = -0.07 dB Peak SAR (extrapolated) = 0.316 W/kg SAR(1 g) = 0.244 W/kg; SAR(10 g) = 0.178 W/kg Maximum value of SAR (measured) = 0.272 W/kg</p>  | |

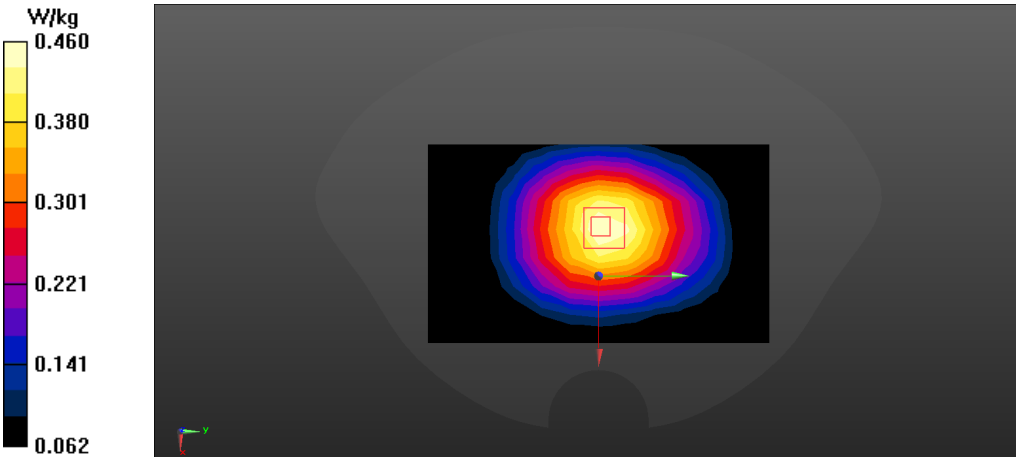
| Right Side | Tilt |
|--|------|
| Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz; Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.915$ S/m; $\epsilon_r = 41.114$; $\rho = 1000$ kg/m ³ Phantom section: Right Section | |
| DASY5 Configuration: <ul style="list-style-type: none"> • Probe: ES3DV3 - SN3127; ConvF(6.15, 6.15, 6.15); Calibrated: 2017/10/11; • Sensor-Surface: 3mm (Mechanical Surface Detection) • Electronics: DAE4 Sn546; Calibrated: 2017/9/15 • Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx • Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section Right HSL 850/850GSM HSL tilt M/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.167 W/kg Head-Section Right HSL 850/850GSM HSL tilt M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 8.010 V/m; Power Drift = -0.12 dB Peak SAR (extrapolated) = 0.195 W/kg SAR(1 g) = 0.153 W/kg; SAR(10 g) = 0.115 W/kg Maximum value of SAR (measured) = 0.168 W/kg | |
|  | |

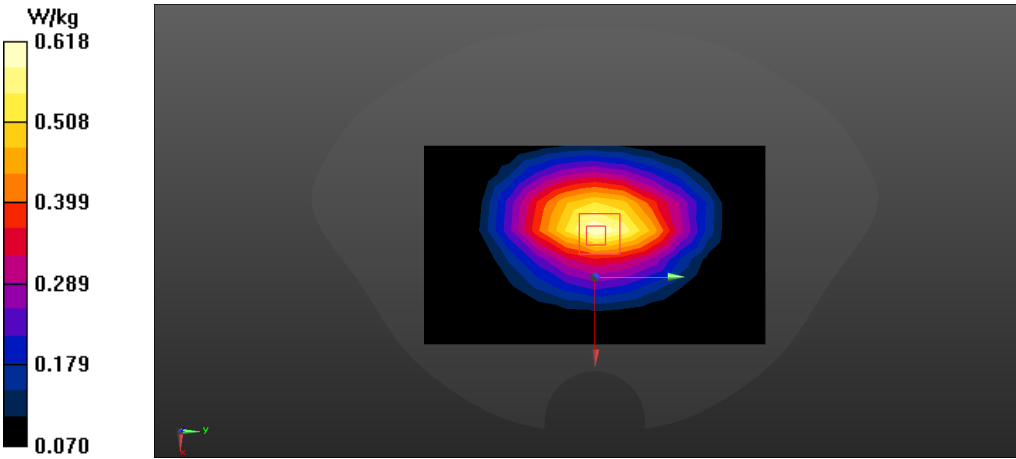
GSM with headset (850MHz/Flat)

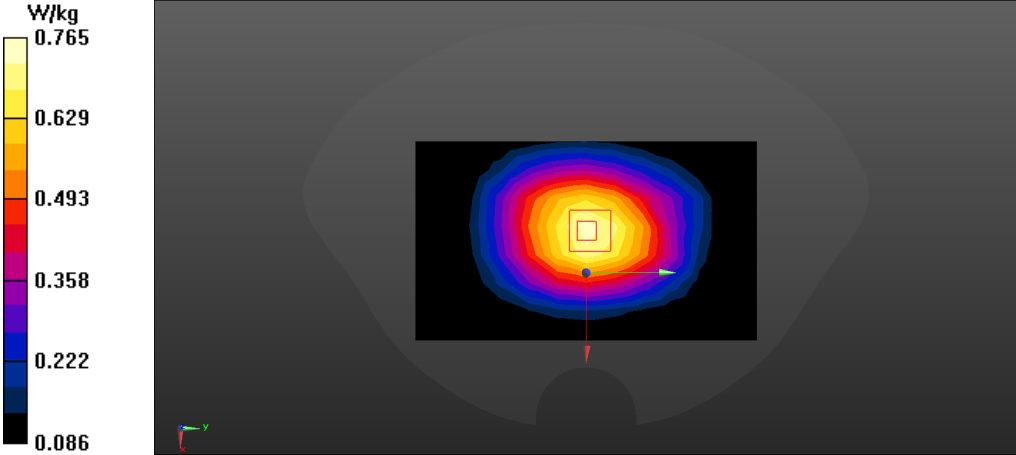
| FLAT | Towards phantom |
|--|-----------------|
| <p>Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz; Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.966$ S/m; $\epsilon_r = 56.196$; $\rho = 1000$ kg/m³ Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(6.06, 6.06, 6.06); Calibrated: 10/11/2017; Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection) Electronics: DAE4 Sn546; Calibrated: 10/23/2017 Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) <p>Configuration/GSM850 TP M 10mm M 2 2 2/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.155 W/kg</p> <p>Configuration/GSM850 TP M 10mm M 2 2 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 12.63 V/m; Power Drift = -0.02 dB Peak SAR (extrapolated) = 0.187 W/kg SAR(1 g) = 0.143 W/kg; SAR(10 g) = 0.105 W/kg Maximum value of SAR (measured) = 0.159 W/kg</p>  | |

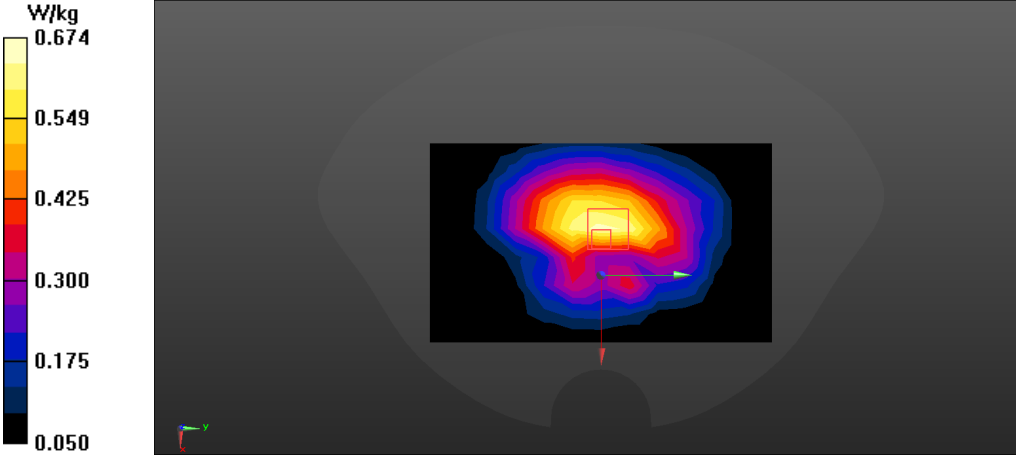
| FLAT | Towards ground |
|---|----------------|
| <p>Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz; Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.966$ S/m; $\epsilon_r = 56.196$; $\rho = 1000$ kg/m³ Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(6.06, 6.06, 6.06); Calibrated: 10/11/2017; Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection) Electronics: DAE4 Sn546; Calibrated: 10/23/2017 Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) <p>Configuration/GSM850 TG M 10mm M 2 2/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.228 W/kg</p> <p>Configuration/GSM850 TG M 10mm M 2 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 15.53 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 0.270 W/kg SAR(1 g) = 0.209 W/kg; SAR(10 g) = 0.157 W/kg Maximum value of SAR (measured) = 0.231 W/kg</p>  | |

GSM (850MHz with GPRS/Flat)

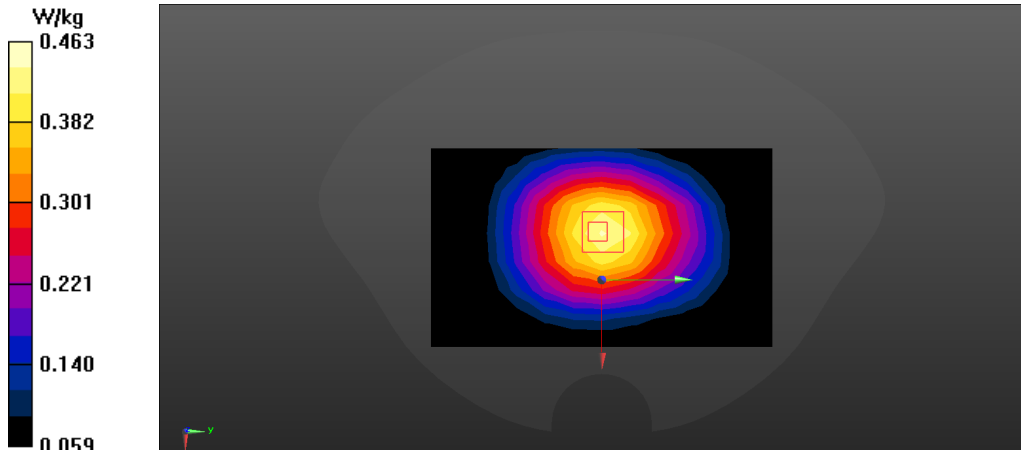
| FLAT | Towards phantom |
|--|-----------------|
| <p>Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz; Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.966$ S/m; $\epsilon_r = 56.196$; $\rho = 1000$ kg/m³ Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(6.06, 6.06, 6.06); Calibrated: 10/11/2017; Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection) Electronics: DAE4 Sn546; Calibrated: 10/23/2017 Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) <p>Configuration/GPRS850 TP M 10mm M 2/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.469 W/kg</p> <p>Configuration/GPRS850 TP M 10mm M 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 21.99 V/m; Power Drift = -0.11 dB Peak SAR (extrapolated) = 0.536 W/kg SAR(1 g) = 0.410 W/kg; SAR(10 g) = 0.301 W/kg Maximum value of SAR (measured) = 0.460 W/kg</p>  | |

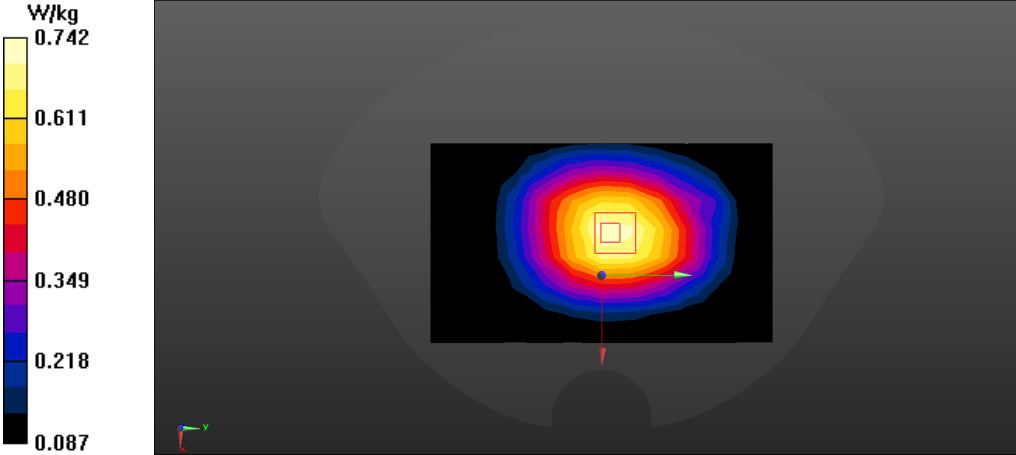
| FLAT | Towards ground |
|---|----------------|
| <p>Communication System: UID 0, Generic GSM (0); Frequency: 824.2 MHz; Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.969$ S/m; $\epsilon_r = 54.581$; $\rho = 1000$ kg/m³ Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(6.06, 6.06, 6.06); Calibrated: 10/11/2017; Sensor-Surface: 3mm (Mechanical Surface Detection) Electronics: DAE4 Sn546; Calibrated: 10/23/2017 Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) <p>Configuration/GPRS850 TG M 10mm L/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.622 W/kg</p> <p>Configuration/GPRS850 TG M 10mm L/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 20.46 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 0.744 W/kg SAR(1 g) = 0.551 W/kg; SAR(10 g) = 0.400 W/kg Maximum value of SAR (measured) = 0.618 W/kg</p>  | |

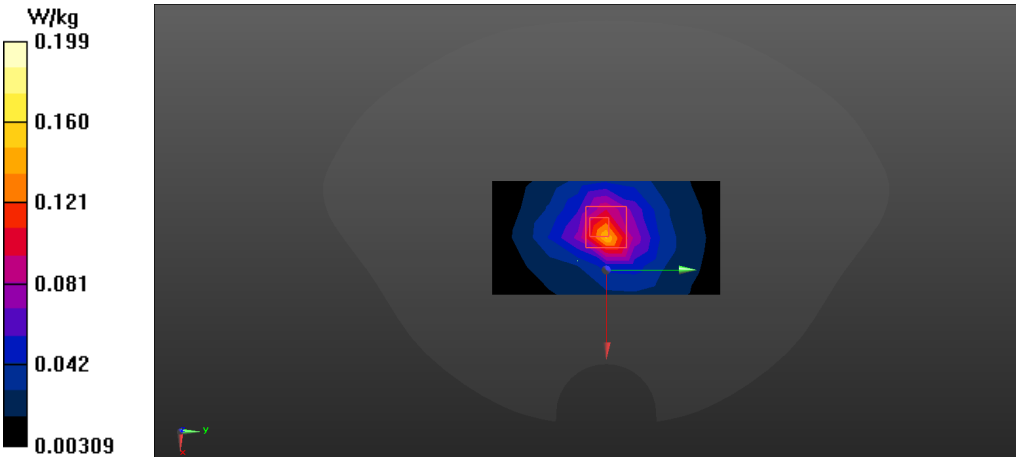
| FLAT | Towards ground |
|---|----------------|
| <p>Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz; Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.966$ S/m; $\epsilon_r = 56.196$; $\rho = 1000$ kg/m³ Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(6.06, 6.06, 6.06); Calibrated: 10/11/2017; Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection) Electronics: DAE4 Sn546; Calibrated: 10/23/2017 Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) <p>Configuration/GPRS850 TG M 10mm M/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.750 W/kg</p> <p>Configuration/GPRS850 TG M 10mm M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 28.46 V/m; Power Drift = 0.07 dB Peak SAR (extrapolated) = 0.915 W/kg SAR(1 g) = 0.677 W/kg; SAR(10 g) = 0.491 W/kg Maximum value of SAR (measured) = 0.765 W/kg</p>  | |

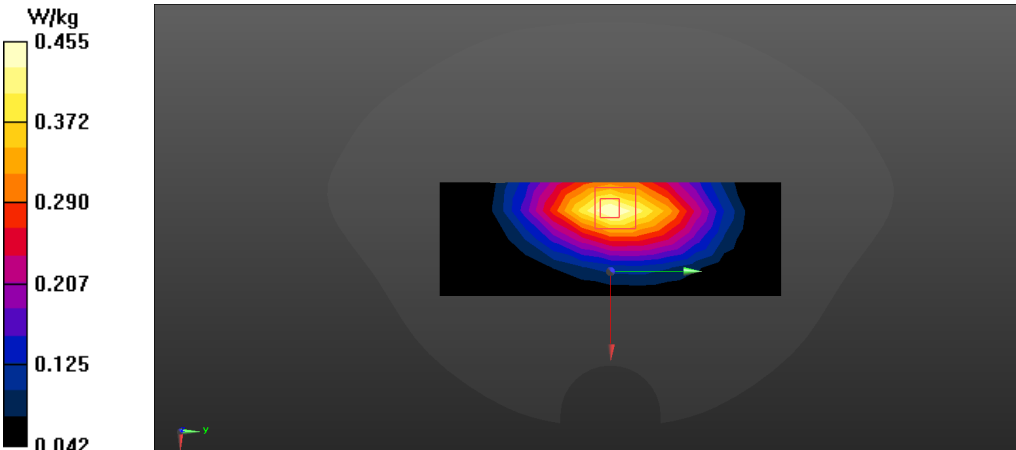
| FLAT | Towards ground |
|---|----------------|
| <p>Communication System: UID 0, Generic GSM (0); Frequency: 848.6 MHz; Medium parameters used (interpolated): $f = 848.6$ MHz; $\sigma = 0.982$ S/m; $\epsilon_r = 54.49$; $\rho = 1000$ kg/m³ Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(6.06, 6.06, 6.06); Calibrated: 10/11/2017; Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection) Electronics: DAE4 Sn546; Calibrated: 10/23/2017 Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) <p>Configuration/GPRS850 TG M 10mm H/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.649 W/kg</p> <p>Configuration/GPRS850 TG M 10mm H/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 17.79 V/m; Power Drift = 0.10 dB Peak SAR (extrapolated) = 1.31 W/kg SAR(1 g) = 0.605 W/kg; SAR(10 g) = 0.432 W/kg Maximum value of SAR (measured) = 0.674 W/kg</p>  | |

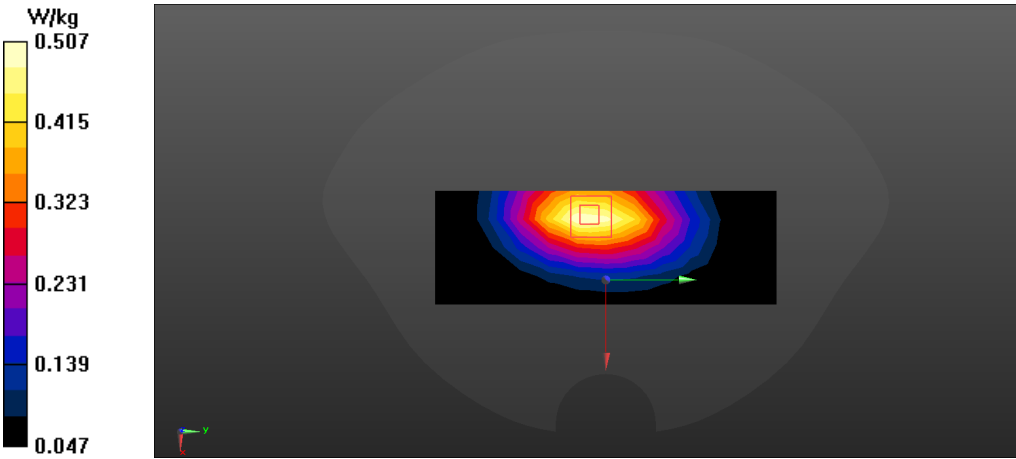
GSM (850MHz with EGPRS/Flat)

| FLAT | Towards phantom |
|---|-----------------|
| <p>Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz; Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.966$ S/m; $\epsilon_r = 56.196$; $\rho = 1000$ kg/m³ Phantom section: Flat Section</p> | |
| <p>DASY5 Configuration:</p> | |
| <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(6.06, 6.06, 6.06); Calibrated: 10/11/2017; Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection) Electronics: DAE4 Sn546; Calibrated: 10/23/2017 Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) <p>Configuration/EGPRS850 TP M 10mm M 2 2/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.441 W/kg</p> <p>Configuration/EGPRS850 TP M 10mm M 2 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 21.80 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 0.550 W/kg SAR(1 g) = 0.410 W/kg; SAR(10 g) = 0.301 W/kg Maximum value of SAR (measured) = 0.463 W/kg</p> | |
|  | |

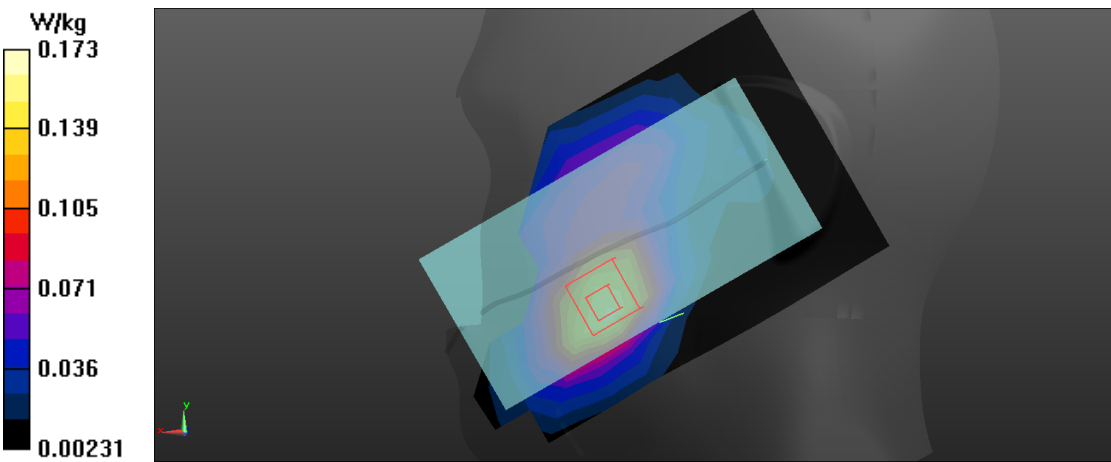
| FLAT | Towards ground |
|---|----------------|
| <p>Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz; Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.966$ S/m; $\epsilon_r = 56.196$; $\rho = 1000$ kg/m³ Phantom section: Flat Section</p> | |
| <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(6.06, 6.06, 6.06); Calibrated: 10/11/2017; Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection) Electronics: DAE4 Sn546; Calibrated: 10/23/2017 Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) <p>Configuration/EGPRS850 TG M 10mm M 2/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.739 W/kg</p> <p>Configuration/EGPRS850 TG M 10mm M 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 27.94 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 0.905 W/kg SAR(1 g) = 0.664 W/kg; SAR(10 g) = 0.482 W/kg Maximum value of SAR (measured) = 0.742 W/kg</p> | |
|  | |

| FLAT | EDGE2 |
|---|-------|
| Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz; Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.966$ S/m; $\epsilon_r = 56.196$; $\rho = 1000$ kg/m ³ Phantom section: Flat Section | |
| DASY5 Configuration: <ul style="list-style-type: none"> • Probe: ES3DV3 - SN3127; ConvF(6.06, 6.06, 6.06); Calibrated: 10/11/2017; • Sensor-Surface: 3mm (Mechanical Surface Detection) • Electronics: DAE4 Sn546; Calibrated: 10/23/2017 • Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx • Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) <p>HOT/GPRS850 M edge 2/Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.150 W/kg</p> <p>HOT/GPRS850 M edge 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 12.87 V/m; Power Drift = -0.08 dB Peak SAR (extrapolated) = 0.495 W/kg SAR(1 g) = 0.149 W/kg; SAR(10 g) = 0.064 W/kg Maximum value of SAR (measured) = 0.199 W/kg</p> | |
|  | |

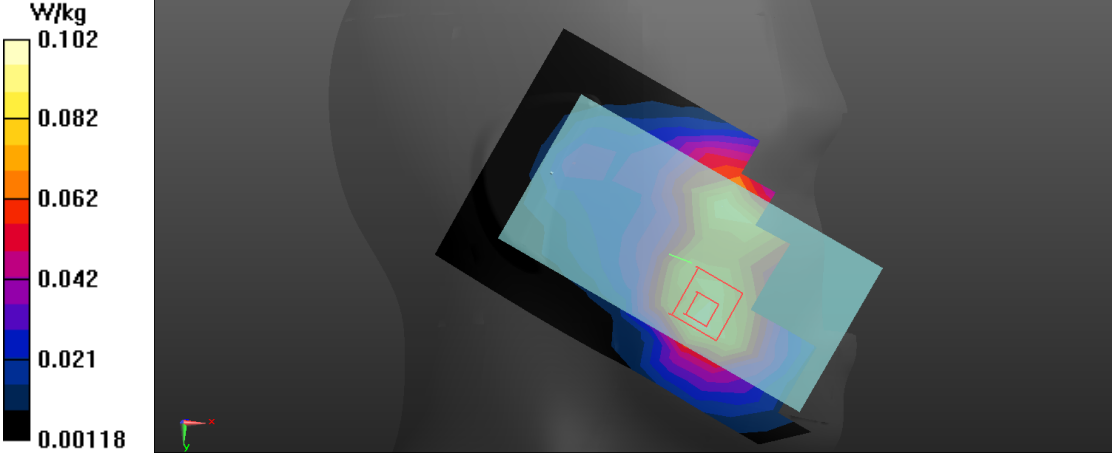
| FLAT | EDGE3 |
|---|-------|
| Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz; Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.966$ S/m; $\epsilon_r = 56.196$; $\rho = 1000$ kg/m ³ Phantom section: Flat Section | |
| DASY5 Configuration: <ul style="list-style-type: none"> • Probe: ES3DV3 - SN3127; ConvF(6.06, 6.06, 6.06); Calibrated: 10/11/2017; • Sensor-Surface: 3mm (Mechanical Surface Detection) • Electronics: DAE4 Sn546; Calibrated: 10/23/2017 • Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx • Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) <p>HOT/GPRS850 M edge 3 M/Area Scan (5x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.468 W/kg</p> <p>HOT/GPRS850 M edge 3 M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 17.23 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 0.605 W/kg SAR(1 g) = 0.388 W/kg; SAR(10 g) = 0.255 W/kg Maximum value of SAR (measured) = 0.455 W/kg</p> | |
|  | |

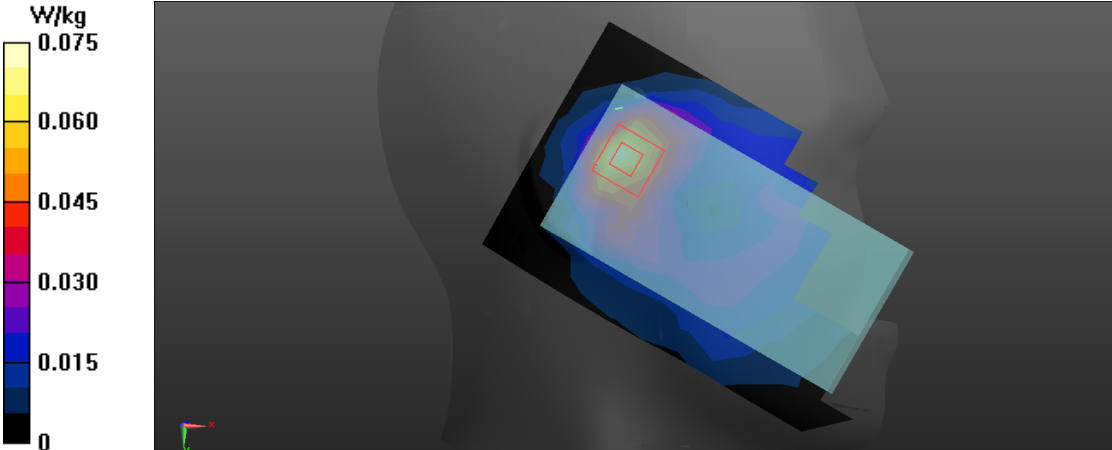
| FLAT | EDGE4 |
|---|-------|
| <p>Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz; Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.966$ S/m; $\epsilon_r = 56.196$; $\rho = 1000$ kg/m³ Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(6.06, 6.06, 6.06); Calibrated: 10/11/2017; Sensor-Surface: 3mm (Mechanical Surface Detection) Electronics: DAE4 Sn546; Calibrated: 10/23/2017 Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) <p>HOT/GPRS850 M edge 4 M 2/Area Scan (5x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.508 W/kg</p> <p>HOT/GPRS850 M edge 4 M 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 18.44 V/m; Power Drift = -0.13 dB Peak SAR (extrapolated) = 0.640 W/kg SAR(1 g) = 0.437 W/kg; SAR(10 g) = 0.294 W/kg Maximum value of SAR (measured) = 0.507 W/kg</p>  | |

GSM (1900MHz/Head)

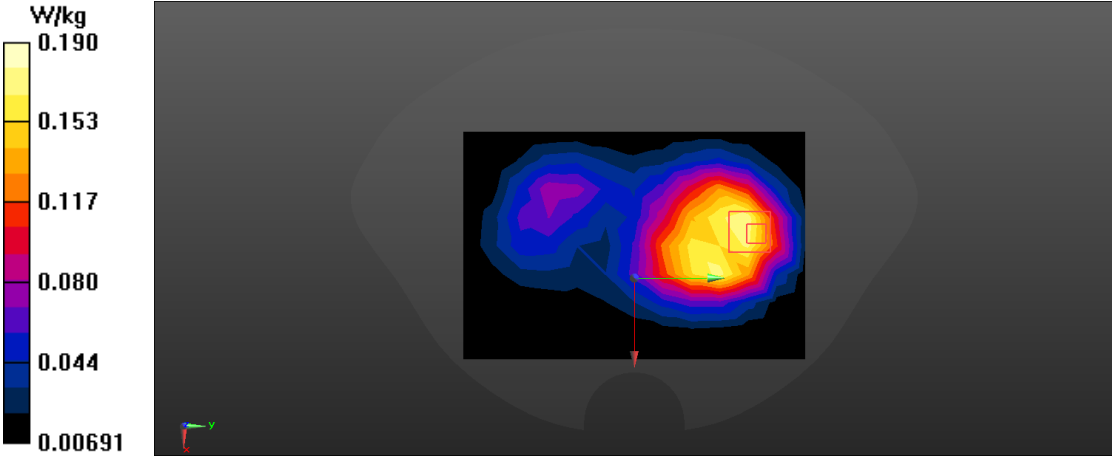
| Left Side | Cheek |
|---|-------|
| <p>Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.465$ S/m; $\epsilon_r = 40.422$; $\rho = 1000$ kg/m³ Phantom section: Left Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(5.06, 5.06, 5.06); Calibrated: 2017/10/11; Sensor-Surface: 3mm (Mechanical Surface Detection) Electronics: DAE4 Sn546; Calibrated: 2017/9/15 Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) <p>Head-Section Left HSL 1900/1900GSM HSL touch M/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.156 W/kg</p> <p>Head-Section Left HSL 1900/1900GSM HSL touch M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 3.908 V/m; Power Drift = 0.00 dB Peak SAR (extrapolated) = 0.230 W/kg SAR(1 g) = 0.145 W/kg; SAR(10 g) = 0.088 W/kg Maximum value of SAR (measured) = 0.173 W/kg</p>  | |

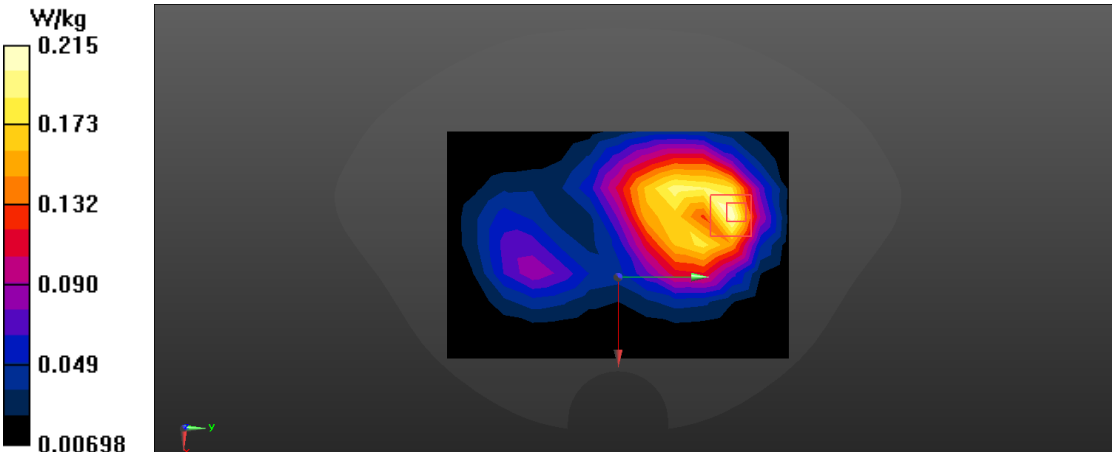
| Left Side | Tilt |
|--|------|
| <p>Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.465$ S/m; $\epsilon_r = 40.422$; $\rho = 1000$ kg/m³ Phantom section: Left Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(5.06, 5.06, 5.06); Calibrated: 2017/10/11; Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection) Electronics: DAE4 Sn546; Calibrated: 2017/9/15 Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) <p>Head-Section Left HSL 1900/1900GSM HSL tilt M/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.0571 W/kg</p> <p>Head-Section Left HSL 1900/1900GSM HSL tilt M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 5.634 V/m; Power Drift = 0.10 dB Peak SAR (extrapolated) = 0.120 W/kg SAR(1 g) = 0.049 W/kg; SAR(10 g) = 0.028 W/kg Maximum value of SAR (measured) = 0.0561 W/kg</p> <div data-bbox="220 1361 1337 1821"> </div> | |

| Right Side | Cheek |
|--|-------|
| <p>Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.465$ S/m; $\epsilon_r = 40.422$; $\rho = 1000$ kg/m³ Phantom section: Right Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(5.06, 5.06, 5.06); Calibrated: 2017/10/11; Sensor-Surface: 3mm (Mechanical Surface Detection) Electronics: DAE4 Sn546; Calibrated: 2017/9/15 Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) <p>Head-Section Right HSL 1900/1900GSM HSL touch M/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.0945 W/kg</p> <p>Head-Section Right HSL 1900/1900GSM HSL touch M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 3.880 V/m; Power Drift = 0.14 dB Peak SAR (extrapolated) = 0.131 W/kg SAR(1 g) = 0.087 W/kg; SAR(10 g) = 0.055 W/kg Maximum value of SAR (measured) = 0.102 W/kg</p>  | |

| Right Side | Tilt |
|---|------|
| <p>Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.465$ S/m; $\epsilon_r = 40.422$; $\rho = 1000$ kg/m³ Phantom section: Right Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> • Probe: ES3DV3 - SN3127; ConvF(5.06, 5.06, 5.06); Calibrated: 2017/10/11; • Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection) • Electronics: DAE4 Sn546; Calibrated: 2017/9/15 • Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx • Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) <p>Head-Section Right HSL 1900/1900GSM HSL tilt M/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.0747 W/kg</p> <p>Head-Section Right HSL 1900/1900GSM HSL tilt M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 5.946 V/m; Power Drift = -0.06 dB Peak SAR (extrapolated) = 0.107 W/kg SAR(1 g) = 0.062 W/kg; SAR(10 g) = 0.034 W/kg Maximum value of SAR (measured) = 0.0765 W/kg</p>  | |

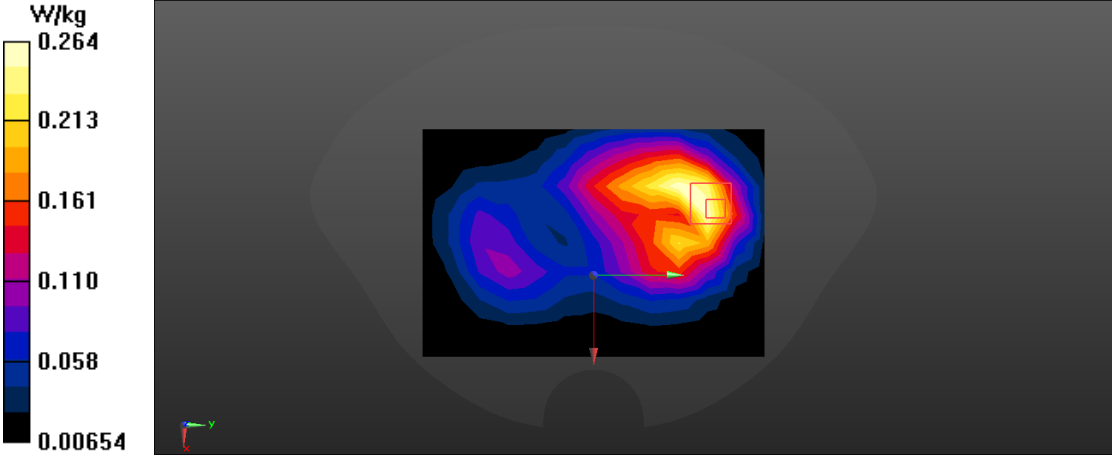
GSM with headset (1900MHz/Flat)

| FLAT | Towards phantom |
|---|-----------------|
| <p>Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.538$ S/m; $\epsilon_r = 52.717$; $\rho = 1000$ kg/m³ Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(4.83, 4.83, 4.83); Calibrated: 2017/10/11; Sensor-Surface: 3mm (Mechanical Surface Detection) Electronics: DAE4 Sn546; Calibrated: 2017/9/15 Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) <p>Flat-Section MSL GSM1900 TP/GSM1900 TP M 10mm/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.173 W/kg</p> <p>Flat-Section MSL GSM1900 TP/GSM1900 TP M 10mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 6.267 V/m; Power Drift = -0.01 dB Peak SAR (extrapolated) = 0.263 W/kg SAR(1 g) = 0.157 W/kg; SAR(10 g) = 0.092 W/kg. Maximum value of SAR (measured) = 0.190 W/kg</p>  | |

| FLAT | Towards ground |
|---|----------------|
| <p>Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.538$ S/m; $\epsilon_r = 52.717$; $\rho = 1000$ kg/m³ Phantom section: Flat Section</p> | |
| <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(4.83, 4.83, 4.83); Calibrated: 2017/10/11; Sensor-Surface: 3mm (Mechanical Surface Detection) Electronics: DAE4 Sn546; Calibrated: 2017/9/15 Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) <p>Flat-Section MSL GSM1900 TG/GSM1900 TG M 10mm/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.214 W/kg</p> <p>Flat-Section MSL GSM1900 TG/GSM1900 TG M 10mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 6.289 V/m; Power Drift = -0.07 dB Peak SAR (extrapolated) = 0.301 W/kg SAR(1 g) = 0.175 W/kg; SAR(10 g) = 0.100 W/kg Maximum value of SAR (measured) = 0.215 W/kg</p> | |
|  <p>The figure displays a SAR measurement heatmap. On the left, a vertical color scale indicates SAR values in W/kg, ranging from 0.00698 (black) to 0.215 (yellow). The main heatmap shows a central high-intensity region (yellow/red) with a zoomed-in view of a specific area. The zoomed-in view shows a peak SAR value of 0.215 W/kg. A red arrow points to the peak, and a green box highlights the area of interest. A 3D coordinate system is visible in the bottom left corner of the heatmap.</p> | |

GSM (1900MHz with GPRS/Flat)

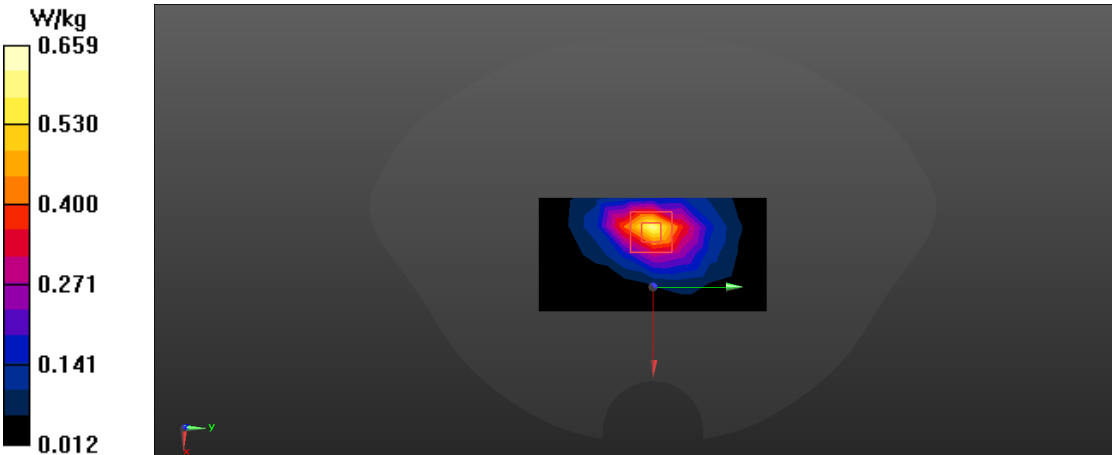
| FLAT | Towards phantom |
|---|-----------------|
| <p>Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.538$ S/m; $\epsilon_r = 52.717$; $\rho = 1000$ kg/m³ Phantom section: Flat Section</p> | |
| <p>DASY5 Configuration:</p> | |
| <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(4.83, 4.83, 4.83); Calibrated: 2017/10/11; Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection) Electronics: DAE4 Sn546; Calibrated: 2017/9/15 Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) | |
| <p>Flat-Section MSL GSM1900 TP/GPRS1900 TP M 10mm/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.248 W/kg</p> | |
| <p>Flat-Section MSL GSM1900 TP/GPRS1900 TP M 10mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 7.804 V/m; Power Drift = 0.17 dB Peak SAR (extrapolated) = 0.373 W/kg SAR(1 g) = 0.221 W/kg; SAR(10 g) = 0.129 W/kg Maximum value of SAR (measured) = 0.272 W/kg</p> | |
| | |

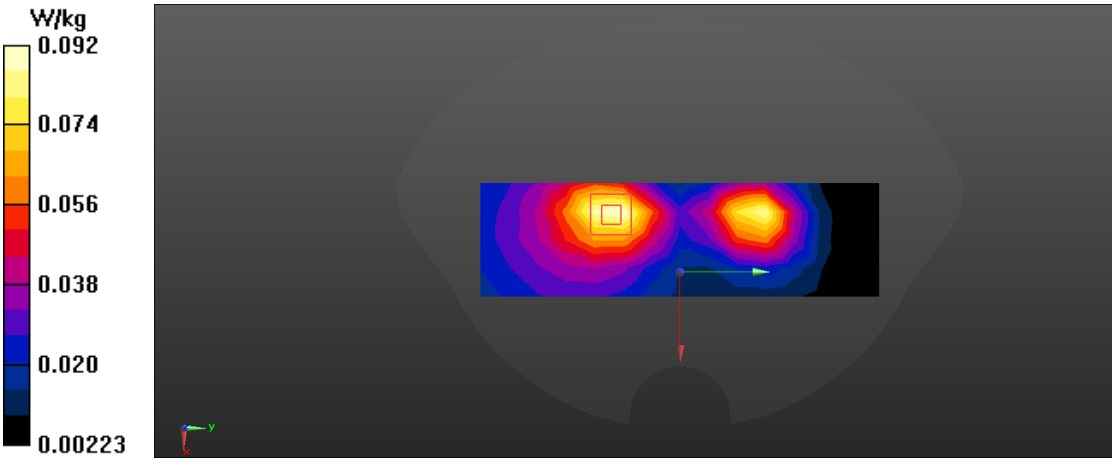
| FLAT | Towards ground |
|--|----------------|
| Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.538$ S/m; $\epsilon_r = 52.717$; $\rho = 1000$ kg/m ³ Phantom section: Flat Section | |
| DASY5 Configuration: <ul style="list-style-type: none"> • Probe: ES3DV3 - SN3127; ConvF(4.83, 4.83, 4.83); Calibrated: 2017/10/11; • Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection) • Electronics: DAE4 Sn546; Calibrated: 2017/9/15 • Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx • Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) <p>Flat-Section MSL GSM1900 TG/GPRS1900 TG M 10mm/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.261 W/kg</p> <p>Flat-Section MSL GSM1900 TG/GPRS1900 TG M 10mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 7.061 V/m; Power Drift = -0.01 dB Peak SAR (extrapolated) = 0.389 W/kg SAR(1 g) = 0.220 W/kg; SAR(10 g) = 0.120 W/kg Maximum value of SAR (measured) = 0.264 W/kg</p> | |
|  | |

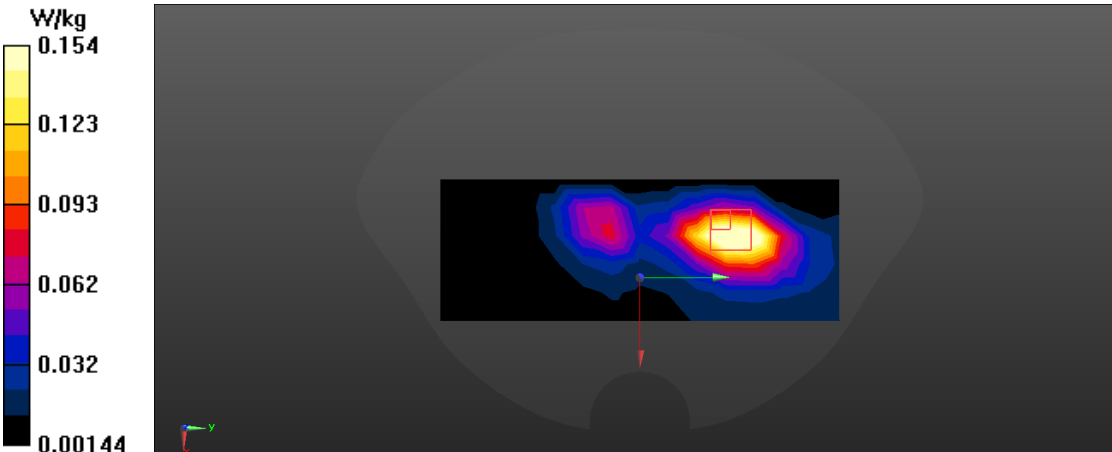
GSM (1900MHz with EGPRS/Flat)

| FLAT | Towards phantom |
|---|-----------------|
| Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz; Medium parameters used (interpolated): f = 1880 MHz; $\sigma = 1.538$ S/m; $\epsilon_r = 52.717$; $\rho = 1000$ kg/m ³ Phantom section: Flat Section | |
| DASY5 Configuration: | |
| <ul style="list-style-type: none"> • Probe: ES3DV3 - SN3127; ConvF(4.83, 4.83, 4.83); Calibrated: 2017/10/11; • Sensor-Surface: 3mm (Mechanical Surface Detection) • Electronics: DAE4 Sn546; Calibrated: 2017/9/15 • Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx • Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) | |
| Flat-Section MSL GSM1900 TP/EGPRS1900 TP M 10mm/Area Scan (9x13x1): | |
| Measurement grid: dx=15mm, dy=15mm | |
| Maximum value of SAR (measured) = 0.331 W/kg | |
| Flat-Section MSL GSM1900 TP/EGPRS1900 TP M 10mm/Zoom Scan | |
| (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm | |
| Reference Value = 7.733 V/m; Power Drift = 0.06 dB | |
| Peak SAR (extrapolated) = 0.506 W/kg | |
| SAR(1 g) = 0.287 W/kg; SAR(10 g) = 0.161 W/kg | |
| Maximum value of SAR (measured) = 0.358 W/kg | |
| | |

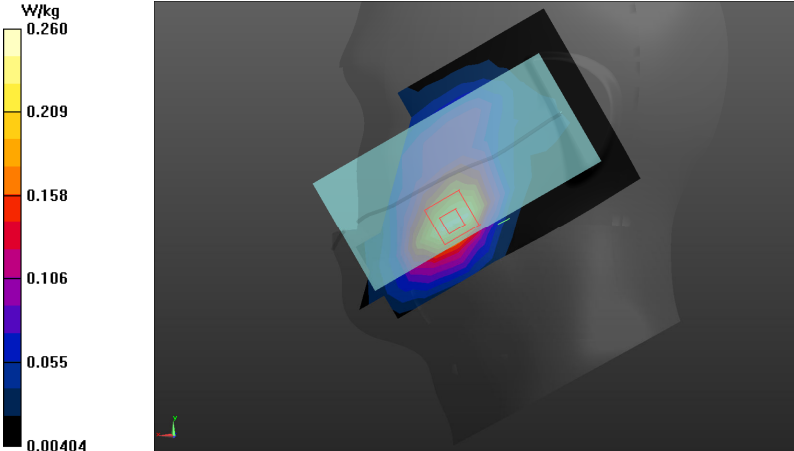
| FLAT | Towards ground |
|---|----------------|
| <p>Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.538$ S/m; $\epsilon_r = 52.717$; $\rho = 1000$ kg/m³ Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(4.83, 4.83, 4.83); Calibrated: 2017/10/11; Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection) Electronics: DAE4 Sn546; Calibrated: 2017/9/15 Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) <p>Flat-Section MSL GSM1900 TG/EGPRS1900 TG M 10mm/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.312 W/kg</p> <p>Flat-Section MSL GSM1900 TG/EGPRS1900 TG M 10mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 6.581 V/m; Power Drift = 0.06 dB Peak SAR (extrapolated) = 0.483 W/kg SAR(1 g) = 0.282 W/kg; SAR(10 g) = 0.162 W/kg Maximum value of SAR (measured) = 0.351 W/kg</p> <div data-bbox="220 1339 1337 1792"> <p>The figure is a SAR heatmap. On the left, there is a vertical color scale legend labeled 'W/kg' with values: 0.00763 (black), 0.076 (dark blue), 0.145 (purple), 0.214 (red), 0.282 (orange), and 0.351 (yellow). The main heatmap shows a central area of high SAR intensity (yellow/red) with a peak value of 0.351 W/kg, surrounded by lower intensity regions (blue/purple). A red arrow points to the peak area. The heatmap is overlaid on a dark background with a small 3D coordinate system at the bottom left.</p> </div> | |

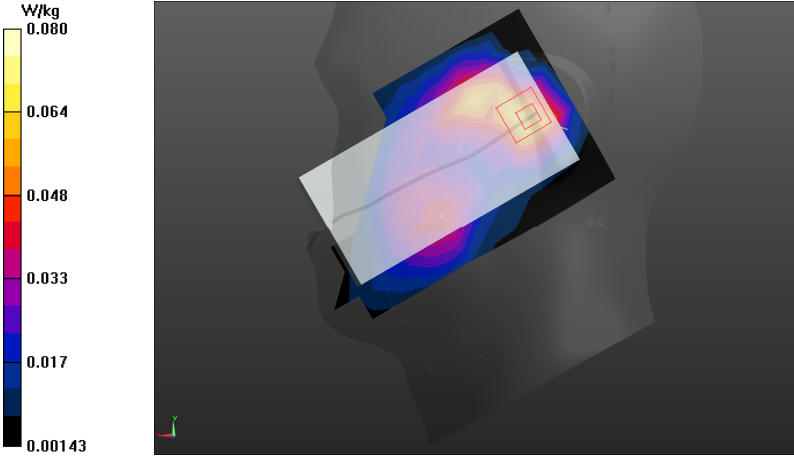
| FLAT | EDGE2 |
|--|-------|
| <p>Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.538$ S/m; $\epsilon_r = 52.717$; $\rho = 1000$ kg/m³ Phantom section: Flat Section</p> | |
| <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(4.83, 4.83, 4.83); Calibrated: 2017/10/11; Sensor-Surface: 3mm (Mechanical Surface Detection) Electronics: DAE4 Sn546; Calibrated: 2017/9/15 Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) <p>Flat-Section MSL GSM1900 HOT/GSM1900 M edge 2/Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.615 W/kg</p> <p>Flat-Section MSL GSM1900 HOT/GSM1900 M edge 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 14.02 V/m; Power Drift = 0.07 dB Peak SAR (extrapolated) = 0.916 W/kg SAR(1 g) = 0.519 W/kg; SAR(10 g) = 0.269 W/kg Maximum value of SAR (measured) = 0.659 W/kg</p> | |
|  <p>The figure is a SAR heatmap. On the left, there is a vertical color scale legend labeled 'W/kg' with values: 0.659 (yellow), 0.530 (orange), 0.400 (red), 0.271 (purple), 0.141 (blue), and 0.012 (black). The main plot shows a dark grey background with a central, bright yellow and red region, indicating the highest SAR values. A smaller, more detailed inset of this central region is shown in the middle of the plot, with a red arrow pointing to it from below. A small 3D coordinate system (x, y, z) is visible in the bottom-left corner of the plot area.</p> | |

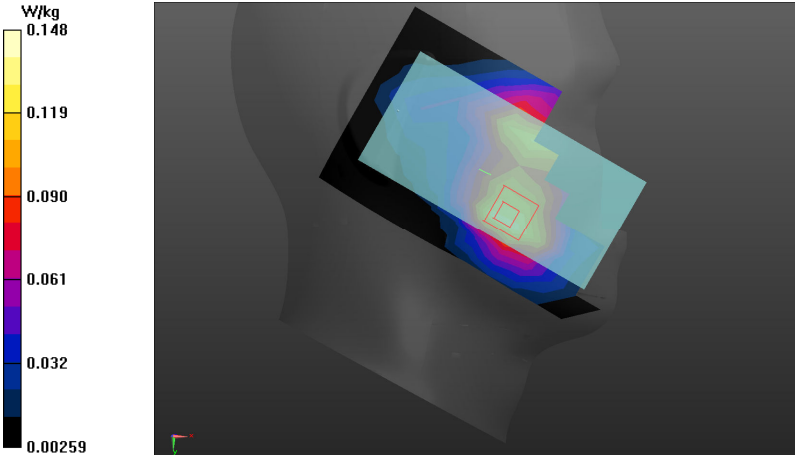
| FLAT | EDGE3 |
|---|-------|
| <p>Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.538$ S/m; $\epsilon_r = 52.717$; $\rho = 1000$ kg/m³ Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> • Probe: ES3DV3 - SN3127; ConvF(4.83, 4.83, 4.83); Calibrated: 2017/10/11; • Sensor-Surface: 3mm (Mechanical Surface Detection) • Electronics: DAE4 Sn546; Calibrated: 2017/9/15 • Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx • Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) <p>Flat-Section MSL GSM1900 HOT/GSM1900 M edge 3/Area Scan (5x15x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.0926 W/kg</p> <p>Flat-Section MSL GSM1900 HOT/GSM1900 M edge 3/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 4.251 V/m; Power Drift = -0.11 dB Peak SAR (extrapolated) = 0.126 W/kg SAR(1 g) = 0.076 W/kg; SAR(10 g) = 0.045 W/kg Maximum value of SAR (measured) = 0.0924 W/kg</p> | |
|  <p>The figure is a SAR heatmap. On the left, there is a vertical color scale legend labeled 'W/kg' with values: 0.092 (yellow), 0.074 (orange), 0.056 (red), 0.038 (purple), 0.020 (blue), and 0.00223 (black). The main image shows a dark grey background with two bright, overlapping regions of high SAR intensity, colored in red and yellow, indicating the highest SAR values. A small white square is overlaid on the leftmost peak. A red arrow points from the zoomed-in area to the main heatmap.</p> | |

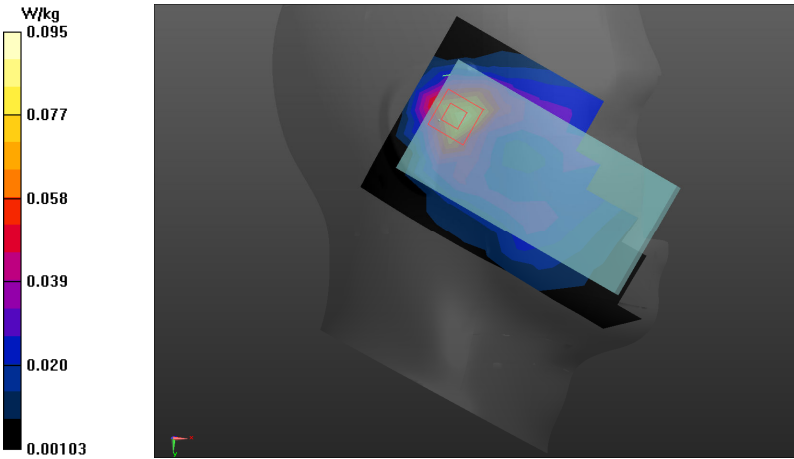
| FLAT | EDGE4 |
|---|-------|
| <p>Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.538$ S/m; $\epsilon_r = 52.717$; $\rho = 1000$ kg/m³ Phantom section: Flat Section</p> | |
| <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(4.83, 4.83, 4.83); Calibrated: 2017/10/11; Sensor-Surface: 3mm (Mechanical Surface Detection) Electronics: DAE4 Sn546; Calibrated: 2017/9/15 Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) <p>Flat-Section MSL GSM1900 HOT/GSM1900 M edge 4/Area Scan (6x15x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.190 W/kg</p> <p>Flat-Section MSL GSM1900 HOT/GSM1900 M edge 4/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 5.457 V/m; Power Drift = -0.18 dB Peak SAR (extrapolated) = 0.222 W/kg SAR(1 g) = 0.122 W/kg; SAR(10 g) = 0.056 W/kg Maximum value of SAR (measured) = 0.154 W/kg</p> | |
|  | |

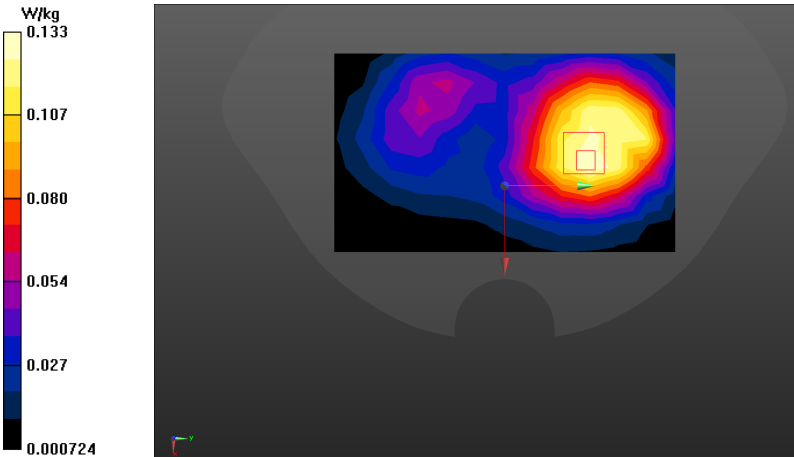
WCDMA Band 2

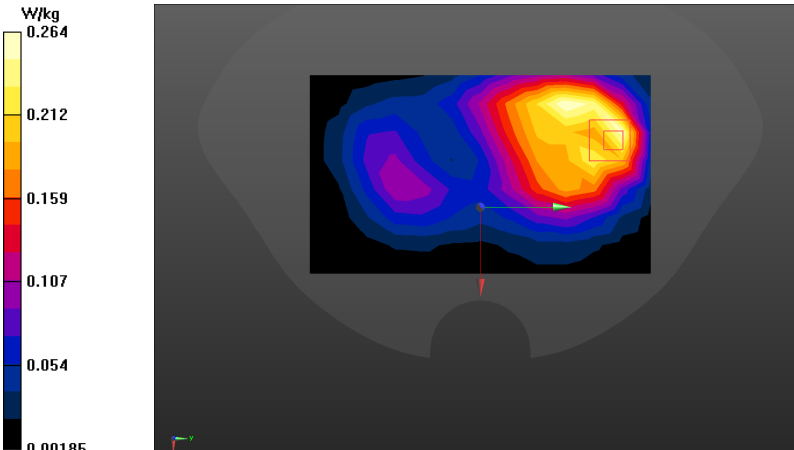
| Left Side | Cheek |
|--|-------|
| <p>Communication System: UID 0, WCDMA BAND2 (0); Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.465$ S/m; $\epsilon_r = 40.422$; $\rho = 1000$ kg/m³ Phantom section: Left Section</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(5.06, 5.06, 5.06); Calibrated: 2017/10/11; Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$ Electronics: DAE4 Sn546; Calibrated: 2017/9/15 Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>Head-Section HSL WCDMA BNAD2 Left Head/WCDMA BAND2 HSL touch M/Area Scan (8x12x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.253 W/kg</p> <p>Head-Section HSL WCDMA BNAD2 Left Head/WCDMA BAND2 HSL touch M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 4.419 V/m; Power Drift = 0.10 dB Peak SAR (extrapolated) = 0.358 W/kg SAR(1 g) = 0.222 W/kg; SAR(10 g) = 0.134 W/kg Maximum value of SAR (measured) = 0.260 W/kg</p>  | |

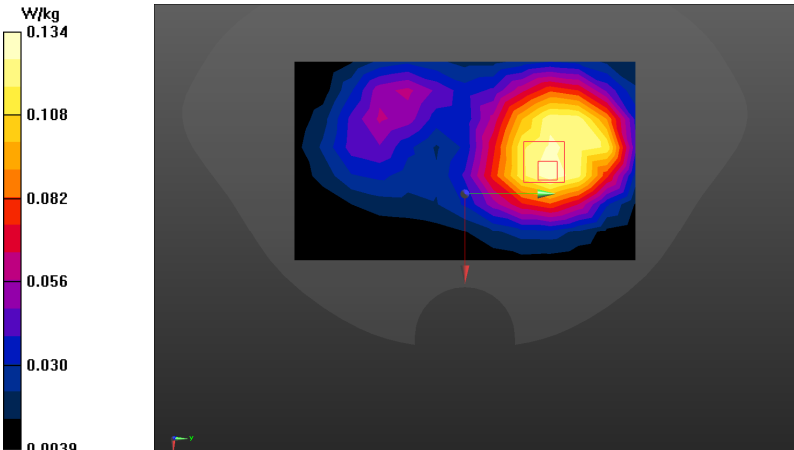
| Left Side | Tilt |
|--|------|
| <p>Communication System: UID 0, WCDMA BAND2 (0); Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.465$ S/m; $\epsilon_r = 40.422$; $\rho = 1000$ kg/m³ Phantom section: Left Section</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> • Probe: ES3DV3 - SN3127; ConvF(5.06, 5.06, 5.06); Calibrated: 2017/10/11; • Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$ • Electronics: DAE4 Sn546; Calibrated: 2017/9/15 • Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>Head-Section HSL WCDMA BNAD2 Left Head/WCDMA BAND2 HSL tilt M/Area Scan (8x12x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.0672 W/kg</p> <p>Head-Section HSL WCDMA BNAD2 Left Head/WCDMA BAND2 HSL tilt M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 6.825 V/m; Power Drift = 0.16 dB Peak SAR (extrapolated) = 0.109 W/kg SAR(1 g) = 0.065 W/kg; SAR(10 g) = 0.037 W/kg Maximum value of SAR (measured) = 0.0798 W/kg</p>  | |

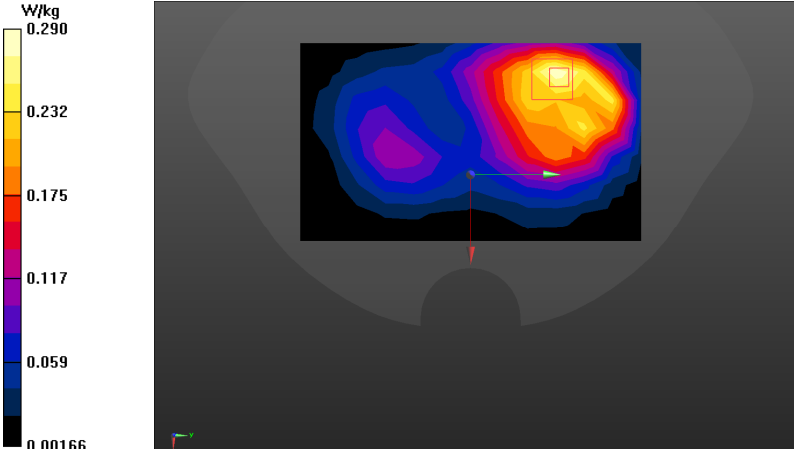
| Right Side | Cheek |
|---|-------|
| <p>Communication System: UID 0, WCDMA BAND2 (0); Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.465$ S/m; $\epsilon_r = 40.422$; $\rho = 1000$ kg/m³ Phantom section: Right Section</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(5.06, 5.06, 5.06); Calibrated: 2017/10/11; Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ Electronics: DAE4 Sn546; Calibrated: 2017/9/15 Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>Head-Section HSL WCDMA BAND2 Right Head/WCDMA BAND2 HSL touch M/Area Scan (8x12x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.134 W/kg</p> <p>Head-Section HSL WCDMA BAND2 Right Head/WCDMA BAND2 HSL touch M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 4.860 V/m; Power Drift = -0.06 dB Peak SAR (extrapolated) = 0.194 W/kg SAR(1 g) = 0.125 W/kg; SAR(10 g) = 0.078 W/kg Maximum value of SAR (measured) = 0.148 W/kg</p>  | |

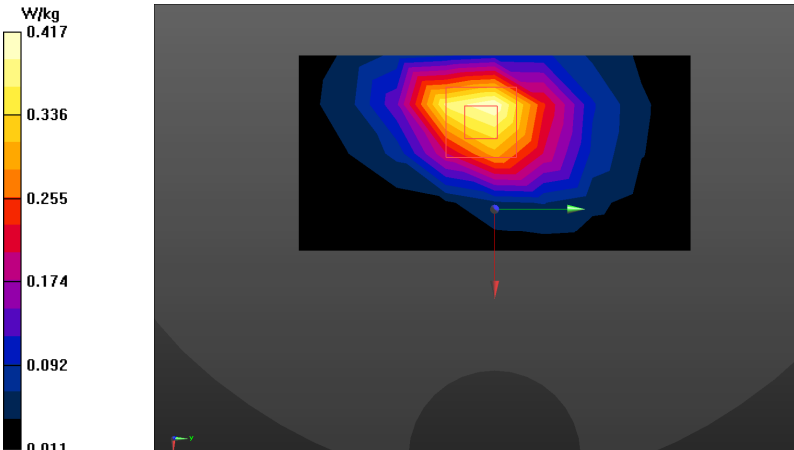
| Right Side | Tilt |
|--|------|
| <p>Communication System: UID 0, WCDMA BAND2 (0); Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.465$ S/m; $\epsilon_r = 40.422$; $\rho = 1000$ kg/m³ Phantom section: Right Section</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(5.06, 5.06, 5.06); Calibrated: 2017/10/11; Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ Electronics: DAE4 Sn546; Calibrated: 2017/9/15 Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>Head-Section HSL WCDMA BAND2 Right Head/WCDMA BNAD2 HSL tilt M/Area Scan (8x12x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.0858 W/kg</p> <p>Head-Section HSL WCDMA BAND2 Right Head/WCDMA BNAD2 HSL tilt M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 7.046 V/m; Power Drift = 0.07 dB Peak SAR (extrapolated) = 0.133 W/kg SAR(1 g) = 0.077 W/kg; SAR(10 g) = 0.042 W/kg Maximum value of SAR (measured) = 0.0954 W/kg</p>  | |

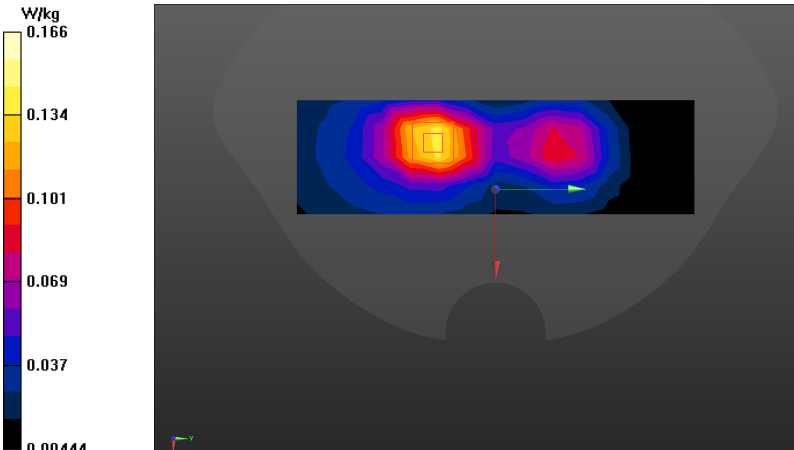
| FLAT(VIOCE) | Towards phantom |
|---|-----------------|
| <p>Communication System: UID 0, WCDMA BAND2 (0); Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.538$ S/m; $\epsilon_r = 52.717$; $\rho = 1000$ kg/m³ Phantom section: Flat Section</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> • Probe: ES3DV3 - SN3127; ConvF(4.83, 4.83, 4.83); Calibrated: 2017/10/11; • Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ • Electronics: DAE4 Sn546; Calibrated: 2017/9/15 • Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>Flat-Section MSL wcdma band2 TP/wcdma band2 TP M 10mm voice/Area Scan (8x13x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.133 W/kg</p> <p>Flat-Section MSL wcdma band2 TP/wcdma band2 TP M 10mm voice/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 5.013 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 0.183 W/kg SAR(1 g) = 0.112 W/kg; SAR(10 g) = 0.070 W/kg Maximum value of SAR (measured) = 0.132 W/kg</p>  | |

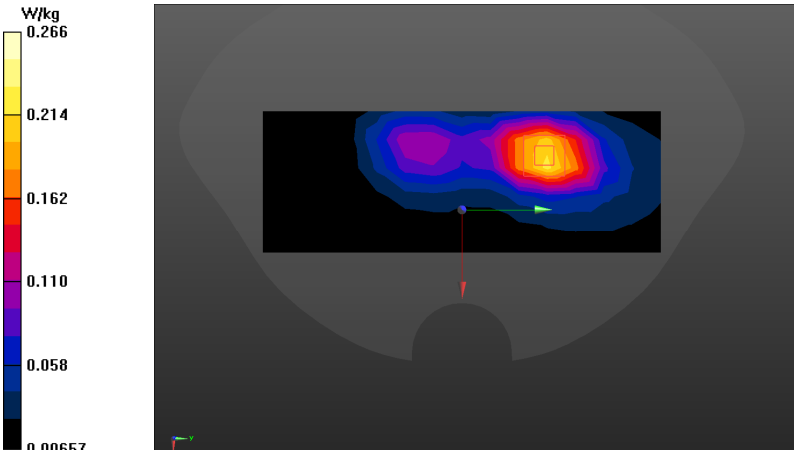
| FLAT(VIOCE) | Towards ground |
|--|----------------|
| <p>Communication System: UID 0, WCDMA BAND2 (0); Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.538$ S/m; $\epsilon_r = 52.717$; $\rho = 1000$ kg/m³ Phantom section: Flat Section</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(4.83, 4.83, 4.83); Calibrated: 2017/10/11; Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ Electronics: DAE4 Sn546; Calibrated: 2017/9/15 Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>Flat-Section MSL wcdma band2 TG/wcdma band2 TG M 10mm voice/Area Scan (8x13x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.264 W/kg</p> <p>Flat-Section MSL wcdma band2 TG/wcdma band2 TG M 10mm voice/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 6.473 V/m; Power Drift = -0.10 dB Peak SAR (extrapolated) = 0.403 W/kg SAR(1 g) = 0.233 W/kg; SAR(10 g) = 0.132 W/kg Maximum value of SAR (measured) = 0.286 W/kg</p>  | |

| FLAT(DATA) | Towards phantom |
|---|-----------------|
| <p>Communication System: UID 0, WCDMA BAND2 (0); Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.538$ S/m; $\epsilon_r = 52.717$; $\rho = 1000$ kg/m³ Phantom section: Flat Section</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(4.83, 4.83, 4.83); Calibrated: 2017/10/11; Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ Electronics: DAE4 Sn546; Calibrated: 2017/9/15 Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>Flat-Section MSL wcdma band2 TP/wcdma band2 TP M 10mm data/Area Scan (8x13x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.132 W/kg</p> <p>Flat-Section MSL wcdma band2 TP/wcdma band2 TP M 10mm data/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 4.996 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 0.186 W/kg SAR(1 g) = 0.113 W/kg; SAR(10 g) = 0.071 W/kg Maximum value of SAR (measured) = 0.134 W/kg</p>  | |

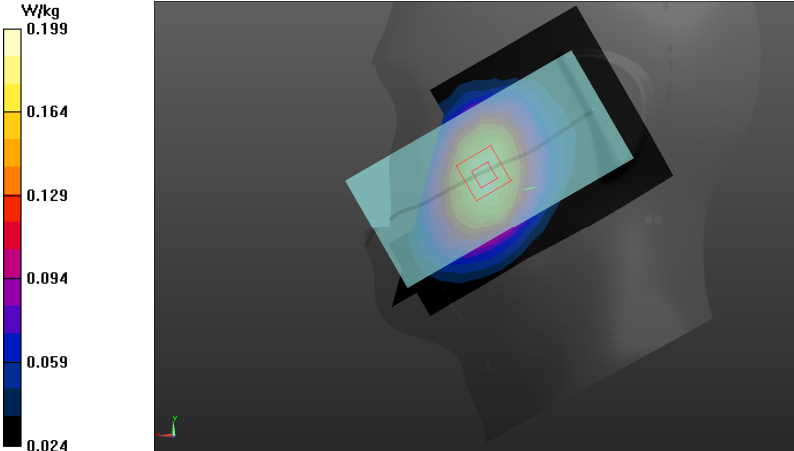
| FLAT(DATA) | Towards ground |
|---|----------------|
| <p>Communication System: UID 0, WCDMA BAND2 (0); Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.538$ S/m; $\epsilon_r = 52.717$; $\rho = 1000$ kg/m³ Phantom section: Flat Section</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(4.83, 4.83, 4.83); Calibrated: 2017/10/11; Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ Electronics: DAE4 Sn546; Calibrated: 2017/9/15 Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>Flat-Section MSL wcdma band2 TG/wcdma band2 TG M 10mm data/Area Scan (8x13x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.290 W/kg</p> <p>Flat-Section MSL wcdma band2 TG/wcdma band2 TG M 10mm data/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 6.564 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 0.426 W/kg SAR(1 g) = 0.243 W/kg; SAR(10 g) = 0.139 W/kg Maximum value of SAR (measured) = 0.298 W/kg</p>  | |

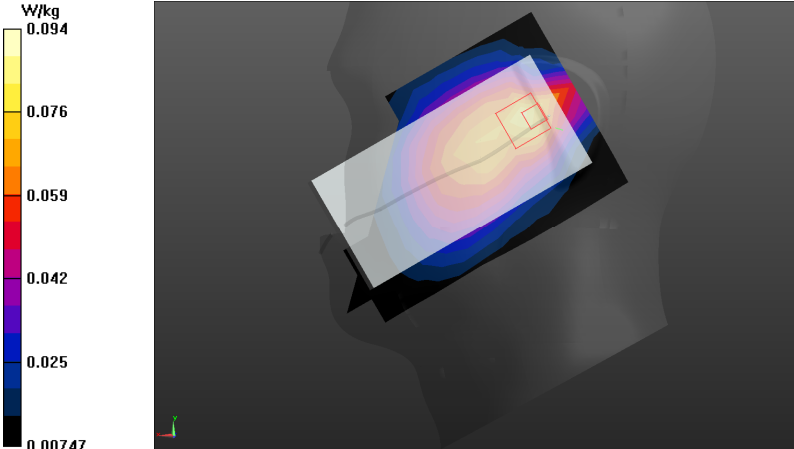
| FLAT | EDGE2 |
|--|-------|
| <p>Communication System: UID 0, WCDMA BAND2 (0); Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.538$ S/m; $\epsilon_r = 52.717$; $\rho = 1000$ kg/m³ Phantom section: Flat Section</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(4.83, 4.83, 4.83); Calibrated: 2017/10/11; Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ Electronics: DAE4 Sn546; Calibrated: 2017/9/15 Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>Flat-Section MSL WCDMA BAND2 HOT/WCDMA BAND2 M edge 2/Area Scan (5x9x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.417 W/kg</p> <p>Flat-Section MSL WCDMA BAND2 HOT/WCDMA BAND2 M edge 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 14.47 V/m; Power Drift = 0.13 dB Peak SAR (extrapolated) = 0.733 W/kg SAR(1 g) = 0.424 W/kg; SAR(10 g) = 0.222 W/kg Maximum value of SAR (measured) = 0.530 W/kg</p>  | |

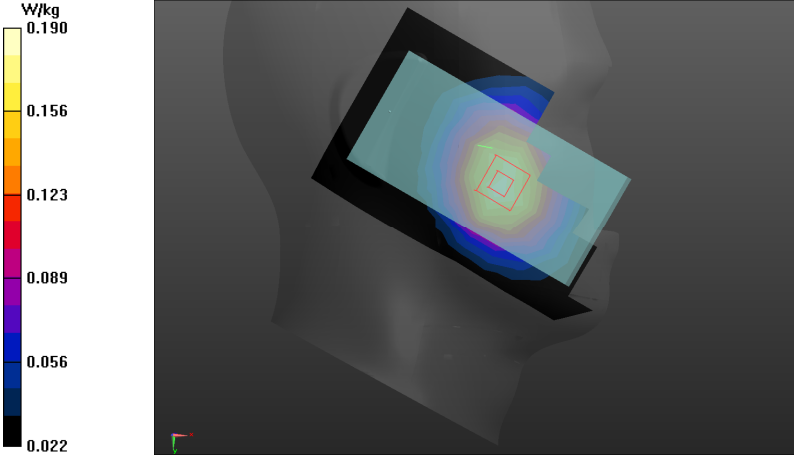
| FLAT | EDGE3 |
|--|-------|
| <p>Communication System: UID 0, WCDMA BAND2 (0); Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.538$ S/m; $\epsilon_r = 52.717$; $\rho = 1000$ kg/m³ Phantom section: Flat Section</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> • Probe: ES3DV3 - SN3127; ConvF(4.83, 4.83, 4.83); Calibrated: 2017/10/11; • Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ • Electronics: DAE4 Sn546; Calibrated: 2017/9/15 • Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>Flat-Section MSL WCDMA BAND2 HOT/WCDMA BAND2 M edge 3/Area Scan (5x15x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.139 W/kg</p> <p>Flat-Section MSL WCDMA BAND2 HOT/WCDMA BAND2 M edge 3/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 6.058 V/m; Power Drift = -0.00 dB Peak SAR (extrapolated) = 0.228 W/kg SAR(1 g) = 0.137 W/kg; SAR(10 g) = 0.080 W/kg Maximum value of SAR (measured) = 0.166 W/kg</p>  | |

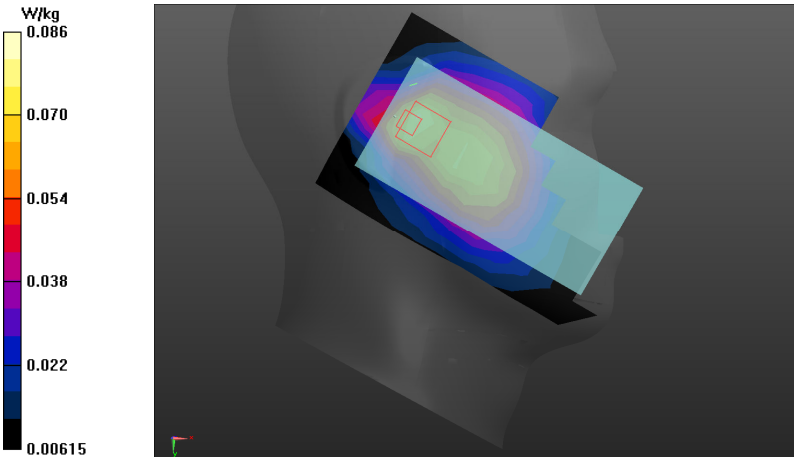
| FLAT | EDGE4 |
|---|-------|
| <p>Communication System: UID 0, WCDMA BAND2 (0); Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 1880 MHz; Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.538$ S/m; $\epsilon_r = 52.717$; $\rho = 1000$ kg/m³ Phantom section: Flat Section</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(4.83, 4.83, 4.83); Calibrated: 2017/10/11; Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ Electronics: DAE4 Sn546; Calibrated: 2017/9/15 Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>Flat-Section MSL WCDMA BAND2 HOT/WCDMA BAND2 M edge 4/Area Scan (6x15x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.221 W/kg</p> <p>Flat-Section MSL WCDMA BAND2 HOT/WCDMA BAND2 M edge 4/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 6.175 V/m; Power Drift = 0.12 dB Peak SAR (extrapolated) = 0.369 W/kg SAR(1 g) = 0.218 W/kg; SAR(10 g) = 0.124 W/kg Maximum value of SAR (measured) = 0.266 W/kg</p>  | |

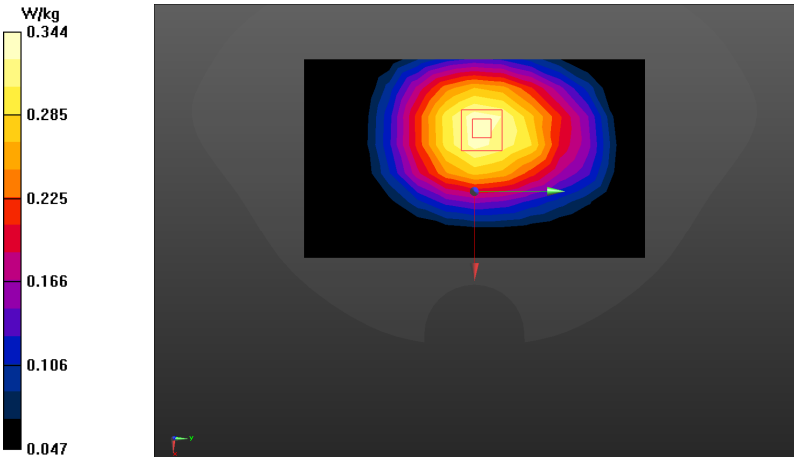
WCDMA Band 5

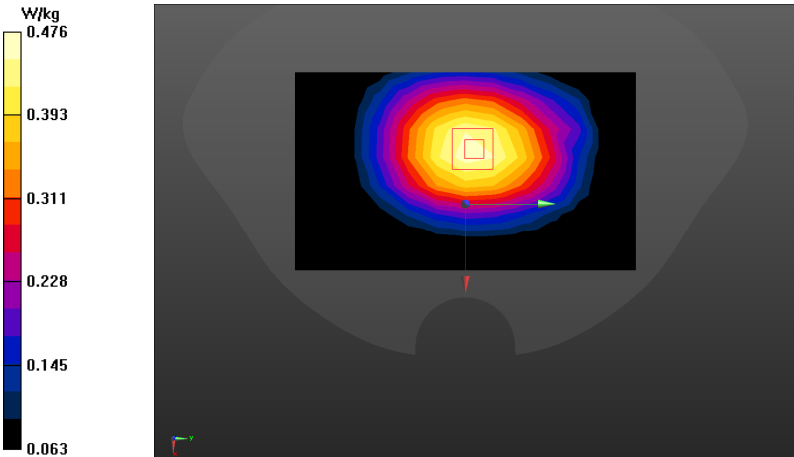
| Left Side | Cheek |
|---|-------|
| <p>Communication System: UID 0, WCDMA BAND 5 (0); Communication System Band: WCDMA Band 5; Frequency: 836.6 MHz Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.915$ S/m; $\epsilon_r = 41.114$; $\rho = 1000$ kg/m³ Phantom section: Left Section</p> | |
| <p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(6.15, 6.15, 6.15); Calibrated: 2017/10/11; Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$ Electronics: DAE4 Sn546; Calibrated: 2017/9/15 Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>Head-Section HSL WCDMA BNAD5 Left Head/WCDMA BAND5 HSL touch M/Area Scan (8x12x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.193 W/kg</p> <p>Head-Section HSL WCDMA BNAD5 Left Head/WCDMA BAND5 HSL touch M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 4.234 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 0.227 W/kg SAR(1 g) = 0.181 W/kg; SAR(10 g) = 0.136 W/kg Maximum value of SAR (measured) = 0.199 W/kg</p> | |
|  | |

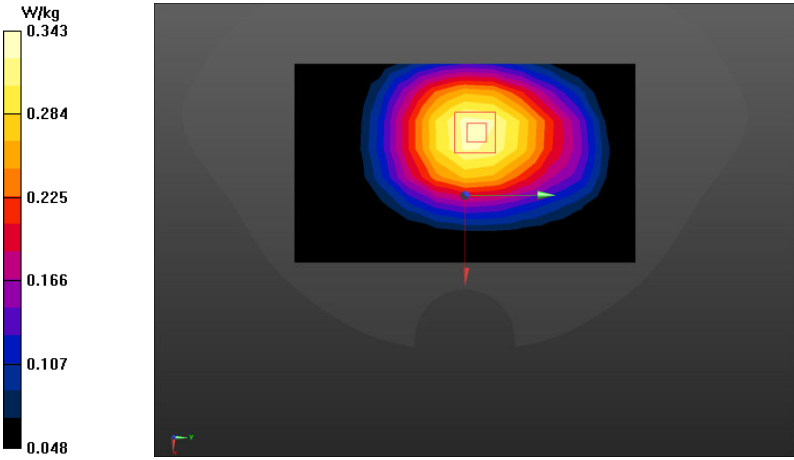
| Left Side | Tilt |
|--|------|
| <p>Communication System: UID 0, WCDMA BAND 5 (0); Communication System Band: WCDMA Band 5; Frequency: 836.6 MHz Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.915$ S/m; $\epsilon_r = 41.114$; $\rho = 1000$ kg/m³ Phantom section: Left Section</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(6.15, 6.15, 6.15); Calibrated: 2017/10/11; Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$ Electronics: DAE4 Sn546; Calibrated: 2017/9/15 Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>Head-Section HSL WCDMA BNAD5 Left Head/WCDMA BAND5 HSL tilt M/Area Scan (8x12x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.0842 W/kg</p> <p>Head-Section HSL WCDMA BNAD5 Left Head/WCDMA BAND5 HSL tilt M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 9.071 V/m; Power Drift = 0.13 dB Peak SAR (extrapolated) = 0.129 W/kg SAR(1 g) = 0.078 W/kg; SAR(10 g) = 0.051 W/kg Maximum value of SAR (measured) = 0.0935 W/kg</p>  | |

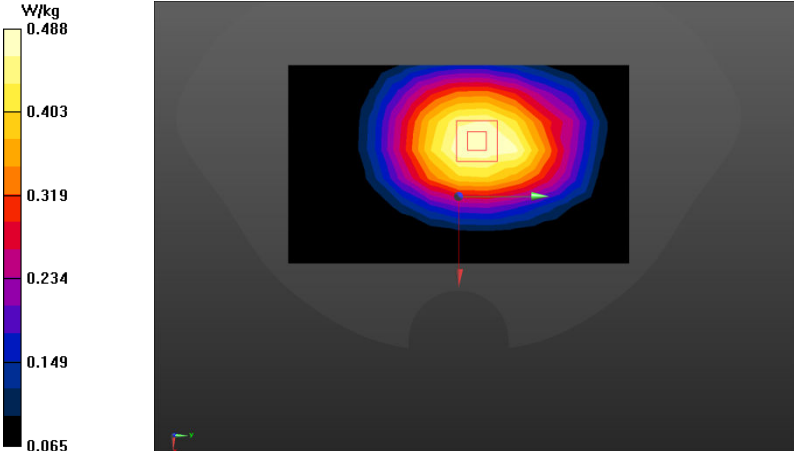
| Right Side | Cheek |
|--|-------|
| <p>Communication System: UID 0, WCDMA BAND 5 (0); Communication System Band: WCDMA Band 5; Frequency: 836.6 MHz Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.915$ S/m; $\epsilon_r = 41.114$; $\rho = 1000$ kg/m³ Phantom section: Right Section</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(6.15, 6.15, 6.15); Calibrated: 2017/10/11; Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ Electronics: DAE4 Sn546; Calibrated: 2017/9/15 Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>Head-Section HSL WCDMA BAND5 Right Head/WCDMA BNAD5 HSL touch M/Area Scan (8x12x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.190 W/kg</p> <p>Head-Section HSL WCDMA BAND5 Right Head/WCDMA BNAD5 HSL touch M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 3.840 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 0.219 W/kg SAR(1 g) = 0.174 W/kg; SAR(10 g) = 0.130 W/kg</p>  | |

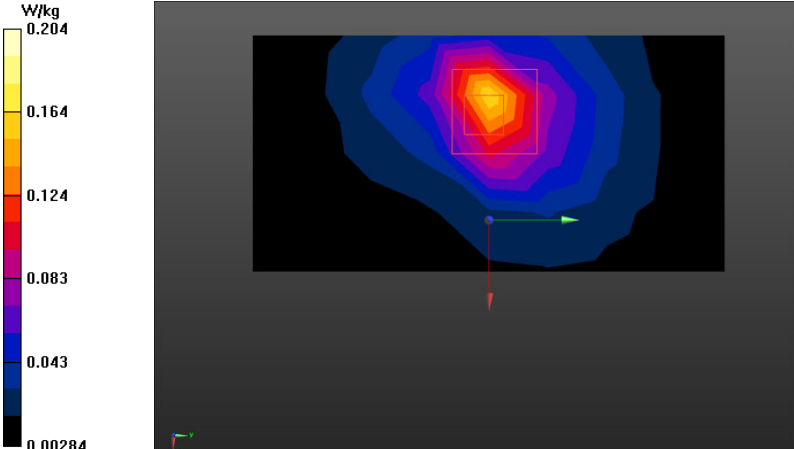
| Right Side | Tilt |
|---|------|
| <p>Communication System: UID 0, WCDMA BAND 5 (0); Communication System Band: WCDMA Band 5; Frequency: 836.6 MHz Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.915$ S/m; $\epsilon_r = 41.114$; $\rho = 1000$ kg/m³ Phantom section: Right Section</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(6.15, 6.15, 6.15); Calibrated: 2017/10/11; Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ Electronics: DAE4 Sn546; Calibrated: 2017/9/15 Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>Head-Section HSL WCDMA BAND5 Right Head/WCDMA BAND5 HSL tilt M/Area Scan (8x12x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.0764 W/kg</p> <p>Head-Section HSL WCDMA BAND5 Right Head/WCDMA BAND5 HSL tilt M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 8.507 V/m; Power Drift = 0.14 dB Peak SAR (extrapolated) = 0.119 W/kg SAR(1 g) = 0.072 W/kg; SAR(10 g) = 0.048 W/kg Maximum value of SAR (measured) = 0.0857 W/kg</p>  | |

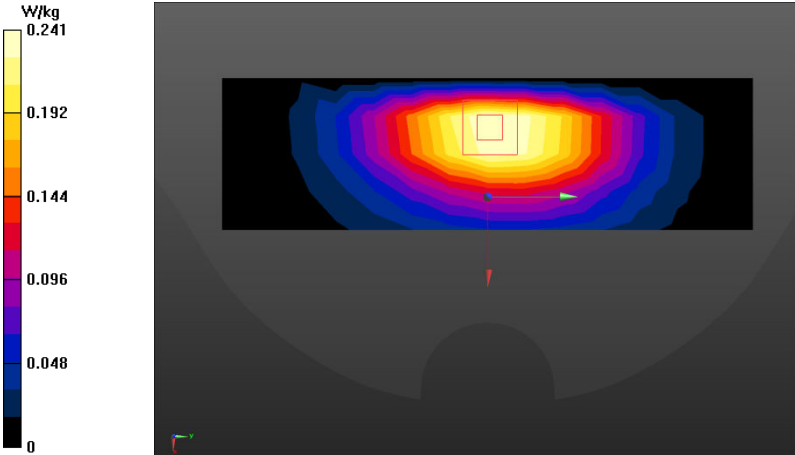
| FLAT(VIOCE) | Towards phantom |
|---|-----------------|
| <p>Communication System: UID 0, WCDMA BAND 5 (0); Communication System Band: WCDMA Band 5; Frequency: 836.6 MHz Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.966$ S/m; $\epsilon_r = 56.196$; $\rho = 1000$ kg/m³ Phantom section: Flat Section</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> • Probe: ES3DV3 - SN3127; ConvF(6.06, 6.06, 6.06); Calibrated: 2017/10/11; • Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ • Electronics: DAE4 Sn546; Calibrated: 2017/9/15 • Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>Flat-Section MSL wcdma band5 TP/wcdma band5 TP M 10mm voice/Area Scan (8x13x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.336 W/kg</p> <p>Flat-Section MSL wcdma band5 TP/wcdma band5 TP M 10mm voice/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 18.38 V/m; Power Drift = 0.06 dB Peak SAR (extrapolated) = 0.400 W/kg SAR(1 g) = 0.312 W/kg; SAR(10 g) = 0.233 W/kg Maximum value of SAR (measured) = 0.344 W/kg</p>  | |

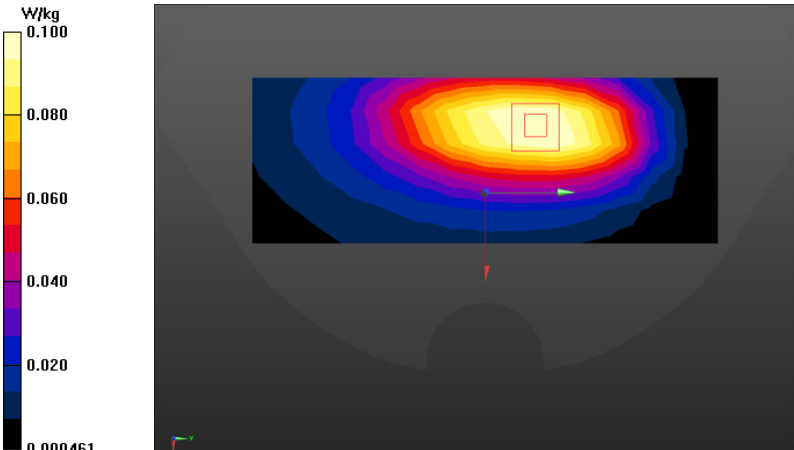
| FLAT(VIOCE) | Towards ground |
|--|----------------|
| <p>Communication System: UID 0, WCDMA BAND 5 (0); Communication System Band: WCDMA Band 5; Frequency: 836.6 MHz Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.966$ S/m; $\epsilon_r = 56.196$; $\rho = 1000$ kg/m³ Phantom section: Flat Section</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(6.06, 6.06, 6.06); Calibrated: 2017/10/11; Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ Electronics: DAE4 Sn546; Calibrated: 2017/9/15 Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>Flat-Section MSL wcdma band5 TG/wcdma band5 TG M 10mm voice/Area Scan (8x13x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.466 W/kg</p> <p>Flat-Section MSL wcdma band5 TG/wcdma band5 TG M 10mm voice/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 22.02 V/m; Power Drift = -0.02 dB Peak SAR (extrapolated) = 0.554 W/kg SAR(1 g) = 0.430 W/kg; SAR(10 g) = 0.319 W/kg Maximum value of SAR (measured) = 0.476 W/kg</p>  | |

| FLAT(DATA) | Towards phantom |
|---|-----------------|
| <p>Communication System: UID 0, WCDMA BAND 5 (0); Communication System Band: WCDMA Band 5; Frequency: 836.6 MHz Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.966$ S/m; $\epsilon_r = 56.196$; $\rho = 1000$ kg/m³ Phantom section: Flat Section</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(6.06, 6.06, 6.06); Calibrated: 2017/10/11; Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ Electronics: DAE4 Sn546; Calibrated: 2017/9/15 Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>Flat-Section MSL wcdma band5 TP/wcdma band5 TP M 10mm data/Area Scan (8x13x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.331 W/kg</p> <p>Flat-Section MSL wcdma band5 TP/wcdma band5 TP M 10mm data/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 18.24 V/m; Power Drift = 0.08 dB Peak SAR (extrapolated) = 0.398 W/kg SAR(1 g) = 0.311 W/kg; SAR(10 g) = 0.233 W/kg Maximum value of SAR (measured) = 0.343 W/kg</p>  | |

| FLAT(DATA) | Towards ground |
|---|----------------|
| <p>Communication System: UID 0, WCDMA BAND 5 (0); Communication System Band: WCDMA Band 5; Frequency: 836.6 MHz Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.966$ S/m; $\epsilon_r = 56.196$; $\rho = 1000$ kg/m³ Phantom section: Flat Section</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(6.06, 6.06, 6.06); Calibrated: 2017/10/11; Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ Electronics: DAE4 Sn546; Calibrated: 2017/9/15 Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>Flat-Section MSL wcdma band5 TG/wcdma band5 TG M 10mm data/Area Scan (8x13x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.483 W/kg</p> <p>Flat-Section MSL wcdma band5 TG/wcdma band5 TG M 10mm data/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 21.98 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 0.565 W/kg SAR(1 g) = 0.443 W/kg; SAR(10 g) = 0.331 W/kg Maximum value of SAR (measured) = 0.488 W/kg</p>  | |

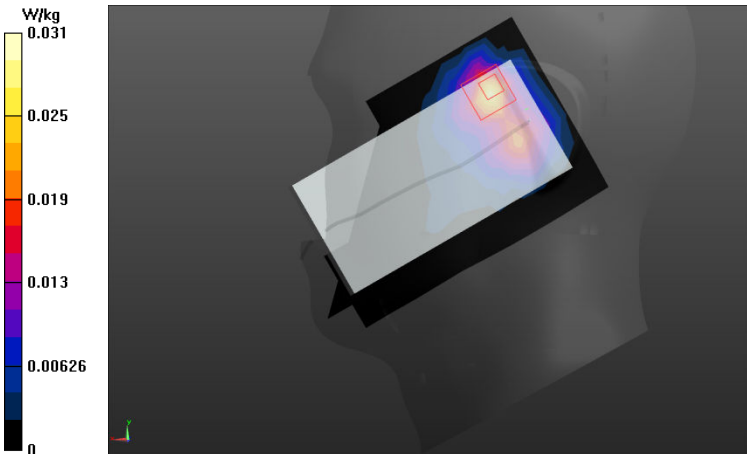
| FLAT | EDGE2 |
|--|-------|
| <p>Communication System: UID 0, WCDMA BAND 5 (0); Communication System Band: WCDMA Band 5; Frequency: 836.6 MHz Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.966$ S/m; $\epsilon_r = 56.196$; $\rho = 1000$ kg/m³ Phantom section: Flat Section</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(6.06, 6.06, 6.06); Calibrated: 2017/10/11; Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ Electronics: DAE4 Sn546; Calibrated: 2017/9/15 Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>Flat-Section MSL WCDMA BAND5 HOT/WCDMA BAND5 M edge 2/Area Scan (5x9x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.166 W/kg</p> <p>Flat-Section MSL WCDMA BAND5 HOT/WCDMA BAND5 M edge 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 9.653 V/m; Power Drift = 0.07 dB Peak SAR (extrapolated) = 0.514 W/kg SAR(1 g) = 0.147 W/kg; SAR(10 g) = 0.061 W/kg Maximum value of SAR (measured) = 0.204 W/kg</p>  | |

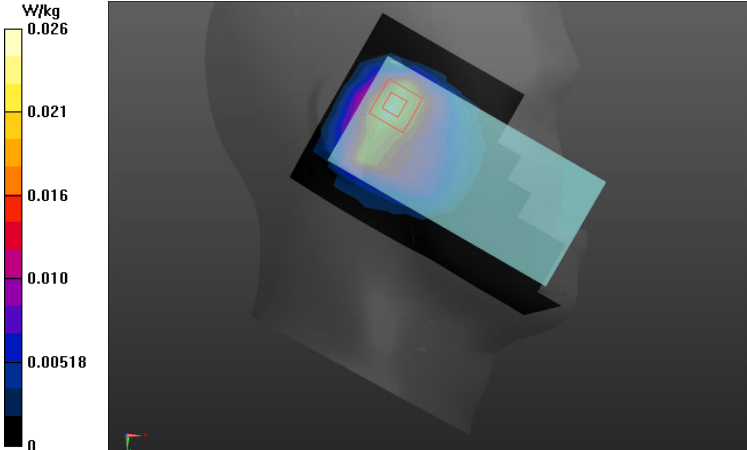
| FLAT | EDGE3 |
|---|-------|
| <p>Communication System: UID 0, WCDMA BAND 5 (0); Communication System Band: WCDMA Band 5; Frequency: 836.6 MHz Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.966$ S/m; $\epsilon_r = 56.196$; $\rho = 1000$ kg/m³ Phantom section: Flat Section</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> • Probe: ES3DV3 - SN3127; ConvF(6.06, 6.06, 6.06); Calibrated: 2017/10/11; • Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ • Electronics: DAE4 Sn546; Calibrated: 2017/9/15 • Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>Flat-Section MSL WCDMA BAND5 HOT/WCDMA BAND5 M edge 3/Area Scan (5x15x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.241 W/kg</p> <p>Flat-Section MSL WCDMA BAND5 HOT/WCDMA BAND5 M edge 3/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 15.83 V/m; Power Drift = -0.07 dB Peak SAR (extrapolated) = 0.148 W/kg SAR(1 g) = 0.103 W/kg; SAR(10 g) = 0.070 W/kg Maximum value of SAR (measured) = 0.119 W/kg</p>  | |

| FLAT | EDGE4 |
|--|-------|
| <p>Communication System: UID 0, WCDMA BAND 5 (0); Communication System Band: WCDMA Band 5; Frequency: 836.6 MHz Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.966$ S/m; $\epsilon_r = 56.196$; $\rho = 1000$ kg/m³ Phantom section: Flat Section</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(6.06, 6.06, 6.06); Calibrated: 2017/10/11; Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ Electronics: DAE4 Sn546; Calibrated: 2017/9/15 Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>Flat-Section MSL WCDMA BAND5 HOT/WCDMA BAND5 M edge 4/Area Scan (6x15x1): Measurement grid: $dx=15$mm, $dy=15$mm Maximum value of SAR (measured) = 0.0998 W/kg</p> <p>Flat-Section MSL WCDMA BAND5 HOT/WCDMA BAND5 M edge 4/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 9.075 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 0.166 W/kg SAR(1 g) = 0.103 W/kg; SAR(10 g) = 0.066 W/kg Maximum value of SAR (measured) = 0.122 W/kg</p>  | |

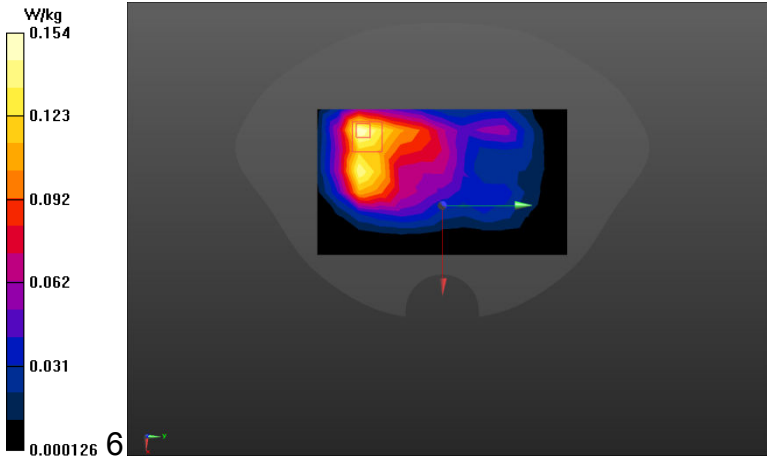
WLAN 2.4GHz

| Left Side | Cheek |
|--|-------|
| <p>Communication System: UID 10012 - CAB, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps); Communication System Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz); Frequency: 2437 MHz; Communication System PAR: 1.87 dB; PMF: 1.04833 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.871$ S/m; $\epsilon_r = 39.57$; $\rho = 1000$ kg/m³ Phantom section: Left Section</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> • Probe: ES3DV3 - SN3127; ConvF(4.58, 4.58, 4.58); Calibrated: 2017/10/11; • Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$ • Electronics: DAE4 Sn546; Calibrated: 2017/9/15 • Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>Head-Section HSL wifi Left Head/wifi HSL touch M/Area Scan (8x12x1): Measurement grid: $dx=12$mm, $dy=12$mm Maximum value of SAR (measured) = 0.0531 W/kg</p> <p>Head-Section HSL wifi Left Head/wifi HSL touch M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 2.388 V/m; Power Drift = 0.13 dB Peak SAR (extrapolated) = 0.111 W/kg SAR(1 g) = 0.045 W/kg; SAR(10 g) = 0.020 W/kg Maximum value of SAR (measured) = 0.0607 W/kg</p> <div data-bbox="422 1462 1173 1915"> </div> | |

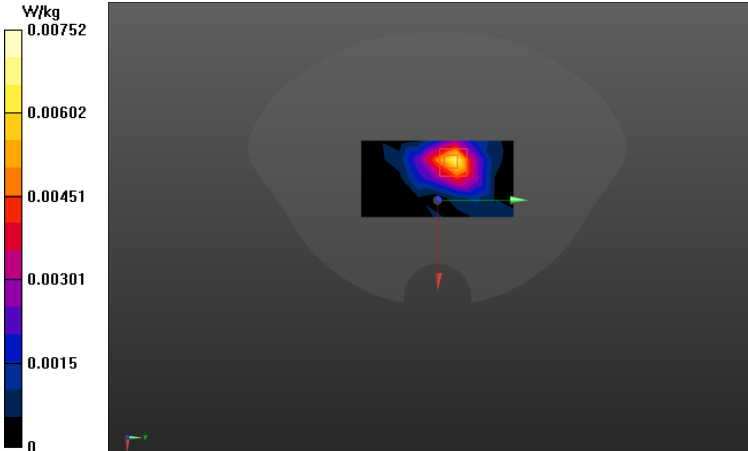
| Left Side | Tilt |
|--|------|
| <p>Communication System: UID 10012 - CAB, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps); Communication System Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz); Frequency: 2437 MHz; Communication System PAR: 1.87 dB; PMF: 1.04833 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.871$ S/m; $\epsilon_r = 39.57$; $\rho = 1000$ kg/m³ Phantom section: Left Section</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(4.58, 4.58, 4.58); Calibrated: 2017/10/11; Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$ Electronics: DAE4 Sn546; Calibrated: 2017/9/15 Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>Head-Section HSL wifi Left Head/wifi HSL tilt M/Area Scan (8x12x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 0.0292 W/kg</p> <p>Head-Section HSL wifi Left Head/wifi HSL tilt M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 2.631 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 0.0550 W/kg SAR(1 g) = 0.022 W/kg; SAR(10 g) = 0.00921 W/kg Maximum value of SAR (measured) = 0.0313 W/kg</p>  | |

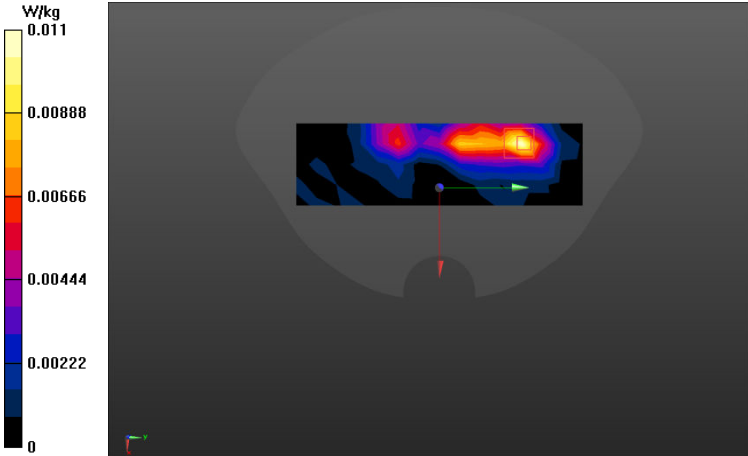
| Right Side | Cheek |
|--|-------|
| <p>Communication System: UID 10012 - CAB, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps); Communication System Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz); Frequency: 2437 MHz; Communication System PAR: 1.87 dB; PMF: 1.04833 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.871$ S/m; $\epsilon_r = 39.57$; $\rho = 1000$ kg/m³ Phantom section: Right Section</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(4.58, 4.58, 4.58); Calibrated: 2017/10/11; Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ Electronics: DAE4 Sn546; Calibrated: 2017/9/15 Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>Head-Section HSL wifi Right Head/wifi HSL touch M/Area Scan (8x12x1): Measurement grid: $dx=12$mm, $dy=12$mm Maximum value of SAR (measured) = 0.0259 W/kg</p> <p>Head-Section HSL wifi Right Head/wifi HSL touch M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 2.982 V/m; Power Drift = 0.17 dB Peak SAR (extrapolated) = 0.0460 W/kg SAR(1 g) = 0.023 W/kg; SAR(10 g) = 0.012 W/kg Maximum value of SAR (measured) = 0.0296 W/kg</p>  | |

| Right Side | Tilt |
|---|------|
| <p>Communication System: UID 10012 - CAB, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps); Communication System Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz); Frequency: 2437 MHz; Communication System PAR: 1.87 dB; PMF: 1.04833 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.871$ S/m; $\epsilon_r = 39.57$; $\rho = 1000$ kg/m³ Phantom section: Right Section</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(4.58, 4.58, 4.58); Calibrated: 2017/10/11; Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ Electronics: DAE4 Sn546; Calibrated: 2017/9/15 Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>Head-Section HSL wifi Right Head/wifi HSL tilt M/Area Scan (8x12x1): Measurement grid: $dx=12$mm, $dy=12$mm Maximum value of SAR (measured) = 0.0269 W/kg</p> <p>Head-Section HSL wifi Right Head/wifi HSL tilt M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 3.003 V/m; Power Drift = 0.07 dB Peak SAR (extrapolated) = 0.0570 W/kg SAR(1 g) = 0.028 W/kg; SAR(10 g) = 0.014 W/kg Maximum value of SAR (measured) = 0.0362 W/kg</p> <div data-bbox="422 1462 1173 1915"> </div> | |

| FLAT | Towards phantom |
|---|-----------------|
| <p>Communication System: UID 10012 - CAB, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps); Communication System Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz); Frequency: 2437 MHz; Communication System PAR: 1.87 dB; PMF: 1.04833 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 2.053$ S/m; $\epsilon_r = 51.97$; $\rho = 1000$ kg/m³ Phantom section: Flat Section</p> | |
| <p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(4.28, 4.28, 4.28); Calibrated: 2017/10/11; Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ Electronics: DAE4 Sn546; Calibrated: 2017/9/15 Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>Flat-Section MSL WIFI2.4G TG&TP/WIFI TP M 10mm/Area Scan (8x13x1): Measurement grid: $dx=12$mm, $dy=12$mm Maximum value of SAR (measured) = 0.154 W/kg</p> <p>Flat-Section MSL WIFI2.4G TG&TP/WIFI TP M 10mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 5.529 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 0.245 W/kg SAR(1 g) = 0.123 W/kg; SAR(10 g) = 0.067 W/kg</p>  | |

| FLAT | Towards ground |
|--|----------------|
| <p>Communication System: UID 10012 - CAB, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps); Communication System Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz); Frequency: 2437 MHz; Communication System PAR: 1.87 dB; PMF: 1.04833 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 2.053$ S/m; $\epsilon_r = 51.97$; $\rho = 1000$ kg/m³ Phantom section: Flat Section</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> • Probe: ES3DV3 - SN3127; ConvF(4.28, 4.28, 4.28); Calibrated: 2017/10/11; • Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ • Electronics: DAE4 Sn546; Calibrated: 2017/9/15 • Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>Flat-Section MSL WIFI2.4G TG&TP/WIFI TG M 10mm/Area Scan (8x13x1): Measurement grid: $dx=12$mm, $dy=12$mm Maximum value of SAR (measured) = 0.139 W/kg</p> <p>Flat-Section MSL WIFI2.4G TG&TP/WIFI TG M 10mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 5.963 V/m; Power Drift = -0.19 dB Peak SAR (extrapolated) = 0.217 W/kg SAR(1 g) = 0.121 W/kg; SAR(10 g) = 0.068 W/kg Maximum value of SAR (measured) = 0.147 W/kg</p> <div data-bbox="422 1462 1174 1917"> </div> | |

| FLAT | EDGE1 |
|---|-------|
| <p>Communication System: UID 10012 - CAB, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps); Communication System Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz); Frequency: 2437 MHz; Communication System PAR: 1.87 dB; PMF: 1.04833 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 2.053$ S/m; $\epsilon_r = 51.97$; $\rho = 1000$ kg/m³ Phantom section: Flat Section</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> • Probe: ES3DV3 - SN3127; ConvF(4.28, 4.28, 4.28); Calibrated: 2017/10/11; • Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ • Electronics: DAE4 Sn546; Calibrated: 2017/9/15 • Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>Flat-Section MSL WIFI HOT/WIFI M edge 1/Area Scan (5x9x1): Measurement grid: $dx=12$mm, $dy=12$mm Maximum value of SAR (measured) = 0.00684 W/kg</p> <p>Flat-Section MSL WIFI HOT/WIFI M edge 1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 1.175 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 0.0110 W/kg SAR(1 g) = 0.00559 W/kg; SAR(10 g) = 0.00241 W/kg Maximum value of SAR (measured) = 0.00752 W/kg</p>  | |

| FLAT | EDGE3 |
|---|-------|
| <p>Communication System: UID 10012 - CAB, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps); Communication System Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz); Frequency: 2437 MHz; Communication System PAR: 1.87 dB; PMF: 1.04833 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 2.053$ S/m; $\epsilon_r = 51.97$; $\rho = 1000$ kg/m³ Phantom section: Flat Section</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: ES3DV3 - SN3127; ConvF(4.28, 4.28, 4.28); Calibrated: 2017/10/11; Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -3.0, 32.0$ Electronics: DAE4 Sn546; Calibrated: 2017/9/15 Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>Flat-Section MSL WIFI HOT/WIFI M edge 3/Area Scan (5x15x1): Measurement grid: $dx=12$mm, $dy=12$mm Maximum value of SAR (measured) = 0.0112 W/kg</p> <p>Flat-Section MSL WIFI HOT/WIFI M edge 3/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$mm, $dy=5$mm, $dz=5$mm Reference Value = 0.8120 V/m; Power Drift = 0.06 dB Peak SAR (extrapolated) = 0.0160 W/kg SAR(1 g) = 0.00844 W/kg; SAR(10 g) = 0.00395 W/kg Maximum value of SAR (measured) = 0.0111 W/kg</p>  | |

ANNEX B – RELEVANT PAGES FROM CALIBRATION REPORTS

DAE4 Sn:546

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中国认可
国际互认
校准
CALIBRATION
CNAS L0570

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E-mail: cntl@chinaatl.com Http://www.chinaatl.cn

Client: **SRTC** Certificate No: **Z17-97141**

CALIBRATION CERTIFICATE

Object: DAE4 - SN: 546

Calibration Procedure(s): FF-Z11-002-01
Calibration Procedure for the Data Acquisition Electronics (DAEx)

Calibration date: September 15, 2017

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements(SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility; environment temperature(22±3)°C and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID # | Cal Date(Calibrated by, Certificate No.) | Scheduled Calibration |
|------------------------|---------|--|-----------------------|
| Process Calibrator 753 | 1971018 | 27-Jun-17 (CTTL No.J17X05859) | June-18 |

| Calibrated by: | Name | Function | Signature |
|----------------|-------------|--------------------|-----------|
| | Yu Zongying | SAR Test Engineer | |
| Reviewed by: | Lin Hao | SAR Test Engineer | |
| Approved by: | Qi Dianyuan | SAR Project Leader | |

Issued: September 18, 2017
This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

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Glossary:
DAE: data acquisition electronics
Connector angle: information used in DASY system to align probe sensor X to the robot coordinate system.

Methods Applied and Interpretation of Parameters:

- **DC Voltage Measurement:** Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- **Connector angle:** The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The report provide only calibration results for DAE, it does not contain other performance test results.

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DC Voltage Measurement

A/D Converter Resolution nominal
High Range: 1LSB = 6.1µV, full range = -100...+300 mV
Low Range: 1LSB = 61µV, full range = -1...+3mV
DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

| Calibration Factors | X | Y | Z |
|---------------------|-----------------------|-----------------------|-----------------------|
| High Range | 405.337 ± 0.15% (k=2) | 404.085 ± 0.15% (k=2) | 404.215 ± 0.15% (k=2) |
| Low Range | 3.98726 ± 0.7% (k=2) | 3.95731 ± 0.7% (k=2) | 3.97839 ± 0.7% (k=2) |

Connector Angle

| | |
|---|-------------|
| Connector Angle to be used in DASY system | 236.6° ± 1° |
|---|-------------|

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ES3DV3 Sn:3127



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DASY/EASY – Parameters of Probe: ES3DV3 - SN: 3127

Calibration Parameter Determined in Head Tissue Simulating Media

| f [MHz] ^① | Relative Permittivity ^② | Conductivity (S/m) ^③ | ConvF X | ConvF Y | ConvF Z | Alpha ^④ | Depth ^⑤ (mm) | Unc. (k=2) |
|----------------------|------------------------------------|---------------------------------|---------|---------|---------|--------------------|-------------------------|------------|
| 750 | 41.9 | 0.89 | 6.26 | 6.26 | 6.26 | 0.60 | 1.20 | ±12.1% |
| 900 | 41.5 | 0.97 | 6.15 | 6.15 | 6.15 | 0.37 | 1.62 | ±12.1% |
| 1810 | 40.0 | 1.40 | 5.06 | 5.06 | 5.06 | 0.67 | 1.23 | ±12.1% |
| 2000 | 40.0 | 1.40 | 4.88 | 4.88 | 4.88 | 0.67 | 1.23 | ±12.1% |
| 2300 | 39.5 | 1.67 | 4.71 | 4.71 | 4.71 | 0.90 | 1.06 | ±12.1% |
| 2450 | 39.2 | 1.80 | 4.58 | 4.58 | 4.58 | 0.90 | 1.10 | ±12.1% |
| 2600 | 39.0 | 1.96 | 4.32 | 4.32 | 4.32 | 0.90 | 1.09 | ±12.1% |

^① Frequency validity above 300 MHz of ±100MHz only applies for DASY v4.4 and higher (Page 2), else it is restricted to ±50MHz. The uncertainty is the RSS of ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ±10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ±110 MHz.
^② At frequency below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ±10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ±5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.
^③ Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ±1% for frequencies below 3 GHz and below ±2% for the frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.



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DASY/EASY – Parameters of Probe: ES3DV3 - SN: 3127

Calibration Parameter Determined in Body Tissue Simulating Media

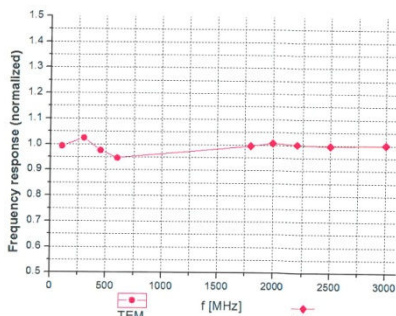
| f [MHz] ^① | Relative Permittivity ^② | Conductivity (S/m) ^③ | ConvF X | ConvF Y | ConvF Z | Alpha ^④ | Depth ^⑤ (mm) | Unc. (k=2) |
|----------------------|------------------------------------|---------------------------------|---------|---------|---------|--------------------|-------------------------|------------|
| 750 | 55.5 | 0.96 | 6.18 | 6.18 | 6.18 | 0.45 | 1.45 | ±12.1% |
| 900 | 55.0 | 1.05 | 6.06 | 6.06 | 6.06 | 0.46 | 1.48 | ±12.1% |
| 1810 | 53.3 | 1.52 | 4.83 | 4.83 | 4.83 | 0.65 | 1.29 | ±12.1% |
| 2000 | 53.3 | 1.52 | 4.69 | 4.69 | 4.69 | 0.44 | 1.69 | ±12.1% |
| 2300 | 52.9 | 1.91 | 4.43 | 4.43 | 4.43 | 0.90 | 1.15 | ±12.1% |
| 2450 | 52.7 | 1.95 | 4.28 | 4.28 | 4.28 | 0.72 | 1.34 | ±12.1% |
| 2600 | 52.5 | 2.16 | 4.07 | 4.07 | 4.07 | 0.90 | 1.16 | ±12.1% |

^① Frequency validity above 300 MHz of ±100MHz only applies for DASY v4.4 and higher (Page 2), else it is restricted to ±50MHz. The uncertainty is the RSS of ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ±10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ±110 MHz.
^② At frequency below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ±10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ±5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.
^③ Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ±1% for frequencies below 3 GHz and below ±2% for the frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.



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Frequency Response of E-Field
(TEM-Cell: ifi110 EXX, Waveguide: R22)

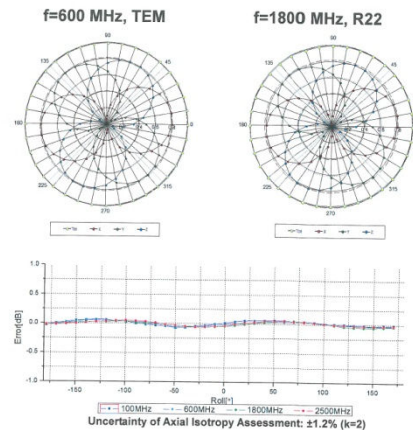


Uncertainty of Frequency Response of E-field: ±7.4% (k=2)



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Receiving Pattern (Φ), θ=0°

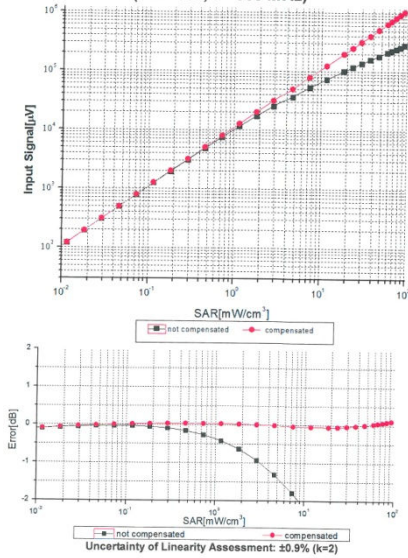


Uncertainty of Axial Isotropy Assessment: ±1.2% (k=2)

ES3DV3 Sn:3127



Dynamic Range f(SAR_{head})
(TEM cell, f = 900 MHz)

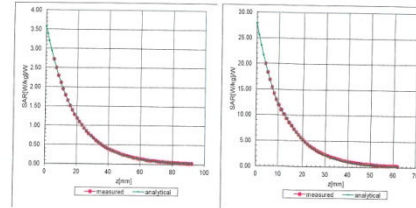


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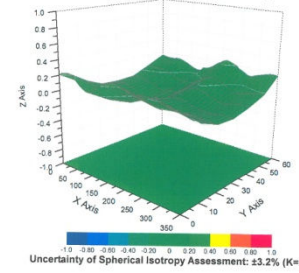


Conversion Factor Assessment

f=900 MHz, WGLS R9(H_convF) f=1810 MHz, WGLS R22(H_convF)



Deviation from Isotropy in Liquid



Certificate No: Z17-97142 Page 10 of 12



DASY/EASY – Parameters of Probe: ES3DV3 - SN: 3127

Other Probe Parameters

| | |
|---|------------|
| Sensor Arrangement | Triangular |
| Connector Angle (°) | 165.1 |
| Mechanical Surface Detection Mode | enabled |
| Optical Surface Detection Mode | disable |
| Probe Overall Length | 337mm |
| Probe Body Diameter | 10mm |
| Tip Length | 10mm |
| Tip Diameter | 4mm |
| Probe Tip to Sensor X Calibration Point | 2mm |
| Probe Tip to Sensor Y Calibration Point | 2mm |
| Probe Tip to Sensor Z Calibration Point | 2mm |
| Recommended Measurement Distance from Surface | 3mm |

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Appendix: Modulation Calibration Parameters

| UID | Communication System Name | PAR | A dB | B dB-μV | C | VR mV | Unc [±] (k=2) |
|-------|--|------|------|---------|-------|-------|------------------------|
| 0 | CW | 0.00 | X | 0.0 | 0.0 | 1.0 | 282.3 ±2.5% |
| | | | Y | 0.0 | 0.0 | 1.0 | 280.9 |
| | | | Z | 0.0 | 0.0 | 1.0 | 275.1 |
| 10012 | IEEE 802.11b WIFI 2.4 GHz (DSSS, 1 Mbps) | 1.87 | X | 2.77 | 68.02 | 18.46 | 143.0 ±1.8% |
| | | | Y | 2.75 | 68.05 | 18.52 | 145.0 |
| | | | Z | 2.71 | 67.79 | 18.25 | 142.3 |
| 10100 | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK) | 5.67 | X | 6.13 | 66.4 | 18.97 | 141.9 ±1.9% |
| | | | Y | 6.15 | 66.49 | 19.06 | 144.2 |
| | | | Z | 6.09 | 66.32 | 18.90 | 140.9 |
| 10108 | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK) | 5.80 | X | 6.09 | 66.24 | 19.07 | 139.5 ±1.9% |
| | | | Y | 6.10 | 66.33 | 19.15 | 141.5 |
| | | | Z | 6.05 | 66.19 | 19.05 | 138.0 |
| 10154 | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK) | 5.75 | X | 5.81 | 65.85 | 18.93 | 136.1 ±1.9% |
| | | | Y | 5.82 | 65.92 | 19.01 | 137.8 |
| | | | Z | 5.79 | 65.89 | 18.97 | 134.7 |
| 10169 | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK) | 5.73 | X | 4.84 | 65.92 | 19.20 | 130.8 ±1.9% |
| | | | Y | 4.82 | 65.98 | 19.27 | 131.3 |
| | | | Z | 4.80 | 66.00 | 19.29 | 129.1 |
| 10175 | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK) | 5.72 | X | 4.88 | 66.14 | 19.40 | 131.6 ±1.9% |
| | | | Y | 4.83 | 66.08 | 19.33 | 130.9 |
| | | | Z | 4.79 | 66.02 | 19.29 | 129.3 |
| 10297 | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) | 5.81 | X | 6.19 | 66.61 | 19.42 | 141.9 ±1.9% |
| | | | Y | 6.13 | 66.43 | 19.26 | 140.7 |
| | | | Z | 6.14 | 66.52 | 19.33 | 139.6 |

Certificate No: Z17-97142 Page 12 of 12

D835V2 Sn:4d023

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Client: **SRTC** Certificate No: **Z17-97135**

CALIBRATION CERTIFICATE

Object: D835V2 - SN: 4d023

Calibration Procedure(s): FF-Z11-003-01
Calibration Procedures for dipole validation kits

Calibration date: September 13, 2017

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements(SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature(2±3)°C and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID # | Cal Date(Calibrated by, Certificate No.) | Scheduled Calibration |
|------------------------|---------|--|-----------------------|
| Power Meter NRVD | 102196 | 02-Mar-17 (CTTL, No.J17X01254) | Mar-18 |
| Power sensor NRW-Z5 | 100590 | 02-Mar-17 (CTTL, No.J17X01254) | Mar-18 |
| Reference Probe EX3DV4 | SN 7433 | 26-Sep-16(SPEAG, No. EX3-7433_Sep16) | Sep-17 |
| DAE4 | SN 1331 | 19-Jan-17(CTTL-SPEAG, No.Z17-97019) | Jan-18 |

| Secondary Standards | ID # | Cal Date(Calibrated by, Certificate No.) | Scheduled Calibration |
|-------------------------|------------|--|-----------------------|
| Signal Generator E4438C | MY49071430 | 13-Jan-17 (CTTL, No.J17X00286) | Jan-18 |
| Network Analyzer E5071C | MY46110673 | 13-Jan-17 (CTTL, No.J17X00286) | Jan-18 |

| Calibrated by: | Name | Function | Signature |
|----------------|-------------|--------------------|-----------|
| | Zhao Jing | SAR Test Engineer | |
| Reviewed by: | Yu Zongying | SAR Test Engineer | |
| Approved by: | Qi Dianyuan | SAR Project Leader | |

Issued: September 16, 2017
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Certificate No: Z17-97135 Page 1 of 8

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Glossary:

TSL: tissue simulating liquid
CorrF: sensitivity in TSL / NORMx, y, z
N/A: not applicable or not measured

Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- IEC 62209-1, "Measurement procedure for assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices- Part 1: Device used next to the ear (Frequency range of 300MHz to 6GHz)", July 2016
- IEC 62209-2, "Procedure to measure the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30MHz to 6GHz)", March 2010
- KDB85664, SAR Measurement Requirements for 100 MHz to 6 GHz

Additional Documentation:

- DASY4/S System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions:** Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:** The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss:** These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay:** One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured:** SAR measured at the stated antenna input power.
- SAR normalized:** SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters:** The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of Measurement, multiplied by the coverage factor k=2, which for a normal distribution Corresponds to a coverage probability of approximately 95%.

Certificate No: Z17-97135 Page 2 of 8

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Measurement Conditions
DASY system configuration, as far as not given on page 1.

| DASY Version | DASY52 | 52.10.0.1446 |
|------------------------------|--------------------------|--------------|
| Extrapolation | Advanced Extrapolation | |
| Phantom | Triple Flat Phantom 5 1C | |
| Distance Dipole Center - TSL | 15 mm | with Spacer |
| Zoom Scan Resolution | dx, dy, dz = 5 mm | |
| Frequency | 835 MHz ± 1 MHz | |

Head TSL parameters
The following parameters and calculations were applied.

| Temperature | Permittivity | Conductivity | |
|---|-----------------|--------------|------------------|
| Nominal Head TSL parameters | 22.0 °C | 41.5 | 0.90 mho/m |
| Measured Head TSL parameters | (22.0 ± 0.2) °C | 41.3 ± 6 % | 0.90 mho/m ± 6 % |
| Head TSL temperature change during test | <1.0 °C | --- | --- |

SAR result with Head TSL

| SAR averaged over 1 cm ³ (1 g) of Head TSL | Condition | |
|---|--------------------|----------------------------|
| SAR measured | 250 mW input power | 2.35 mW / g |
| SAR for nominal Head TSL parameters | normalized to 1W | 9.37 mW / g ± 18.8 % (k=2) |
| SAR averaged over 10 cm ³ (10 g) of Head TSL | Condition | |
| SAR measured | 250 mW input power | 1.52 mW / g |
| SAR for nominal Head TSL parameters | normalized to 1W | 6.06 mW / g ± 18.7 % (k=2) |

Body TSL parameters
The following parameters and calculations were applied.

| Temperature | Permittivity | Conductivity | |
|---|-----------------|--------------|------------------|
| Nominal Body TSL parameters | 22.0 °C | 55.2 | 0.97 mho/m |
| Measured Body TSL parameters | (22.0 ± 0.2) °C | 55.7 ± 6 % | 0.96 mho/m ± 6 % |
| Body TSL temperature change during test | <1.0 °C | --- | --- |

SAR result with Body TSL

| SAR averaged over 1 cm ³ (1 g) of Body TSL | Condition | |
|---|--------------------|----------------------------|
| SAR measured | 250 mW input power | 2.34 mW / g |
| SAR for nominal Body TSL parameters | normalized to 1W | 9.47 mW / g ± 18.8 % (k=2) |
| SAR averaged over 10 cm ³ (10 g) of Body TSL | Condition | |
| SAR measured | 250 mW input power | 1.53 mW / g |
| SAR for nominal Body TSL parameters | normalized to 1W | 6.17 mW / g ± 18.7 % (k=2) |

Certificate No: Z17-97135 Page 3 of 8

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Appendix (Additional assessments outside the scope of CNAS L0570)

Antenna Parameters with Head TSL

| Impedance, transformed to feed point | 51.0Ω - 2.79Ω |
|--------------------------------------|---------------|
| Return Loss | - 30.7dB |

Antenna Parameters with Body TSL

| Impedance, transformed to feed point | 46.6Ω - 3.61Ω |
|--------------------------------------|---------------|
| Return Loss | - 25.8dB |

General Antenna Parameters and Design

| Electrical Delay (one direction) | 1.465 ns |
|----------------------------------|----------|
|----------------------------------|----------|

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard. No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

| Manufactured by | SPEAG |
|-----------------|-------|
|-----------------|-------|

Certificate No: Z17-97135 Page 4 of 8

D835V2 Sn:4d023

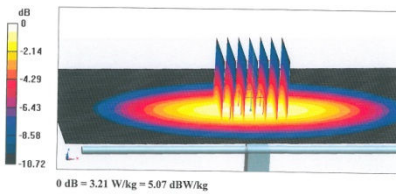
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DASY5 Validation Report for Head TSL Date: 09.13.2017
Test Laboratory: CTTI, Beijing, China
DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN: 4d023
Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 835$ MHz; $\sigma = 0.903$ S/m; $\epsilon_r = 41.34$; $\rho = 1000$ kg/m³
Phantom section: Left Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN7433; ConvF(9.82, 9.82, 9.82); Calibrated: 9/26/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1331; Calibrated: 1/19/2017
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1161/1
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

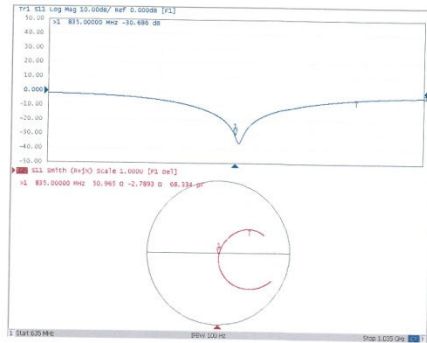
Dipole Calibration/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 56.28V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 3.66 W/kg
SAR(1 g) = 2.35 W/kg; SAR(10 g) = 1.52 W/kg
Maximum value of SAR (measured) = 3.21 W/kg



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Impedance Measurement Plot for Head TSL



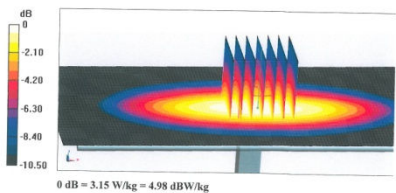
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DASY5 Validation Report for Body TSL Date: 09.13.2017
Test Laboratory: CTTI, Beijing, China
DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN: 4d023
Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 835$ MHz; $\sigma = 0.958$ S/m; $\epsilon_r = 55.68$; $\rho = 1000$ kg/m³
Phantom section: Center Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN7433; ConvF(9.5, 9.5, 9.5); Calibrated: 9/26/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1331; Calibrated: 1/19/2017
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1161/1
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

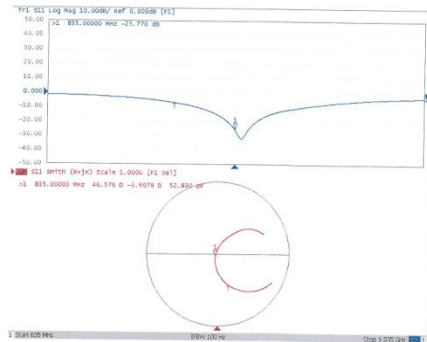
Dipole Calibration/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 56.17 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 3.57 W/kg
SAR(1 g) = 2.34 W/kg; SAR(10 g) = 1.53 W/kg
Maximum value of SAR (measured) = 3.15 W/kg



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Impedance Measurement Plot for Body TSL



D1800V2 Sn:2d084



Client: **SRTC** Certificate No: **Z17-97138**

CALIBRATION CERTIFICATE

Object: D1800V2 - SN: 2d084

Calibration Procedure(s): FF-Z11-003-01
Calibration Procedures for dipole validation kits

Calibration date: September 15, 2017

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements(SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature(2±3)°C and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID # | Cal Date(Calibrated by, Certificate No.) | Scheduled Calibration |
|------------------------|---------|--|-----------------------|
| Power Meter NRP2 | 102196 | 02-Mar-17 (CTTL, No.J17X01254) | Mar-18 |
| Power sensor NRP-Z91 | 100596 | 02-Mar-17 (CTTL, No.J17X01254) | Mar-18 |
| Reference Probe EX3DV4 | SN 7433 | 26-Sep-16(SPEAG.No EX3-7433_Sep16) | Sep-17 |
| DAE4 | SN 1331 | 19-Jan-17(CTTL-SPEAG.No Z17-97015) | Jan-18 |

| Secondary Standards | ID # | Cal Date(Calibrated by, Certificate No.) | Scheduled Calibration |
|-------------------------|------------|--|-----------------------|
| Signal Generator E4438C | MY49071430 | 13-Jan-17 (CTTL, No.J17X00286) | Jan-18 |
| Network Analyzer E5071C | MY46110673 | 13-Jan-17 (CTTL, No.J17X00286) | Jan-18 |

Calibrated by: Zhao Jing (SAR Test Engineer)

Reviewed by: Yu Zongying (SAR Test Engineer)

Approved by: Qi Dianyuan (SAR Project Leader)

Issued: September 18, 2017

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Certificate No: Z17-97138 Page 1 of 8



Client: **SRTC** Certificate No: **Z17-97138**

Glossary:

TSL: tissue simulating liquid

ConvF: sensitivity in TSL / NORMx,y,z

N/A: not applicable or not measured

Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) For hand-held devices used in close proximity to the ear (frequency range of 300MHz to 3GHz)", February 2005
- IEC 62209-2, "Procedure to measure the Specific Absorption Rate (SAR) For wireless communication devices used in close proximity to the human body (frequency range of 30MHz to 6GHz)", March 2010
- KDB865664, SAR Measurement Requirements for 100 MHz to 6 GHz.

Additional Documentation:

e) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of Measurement multiplied by the coverage factor k=2, which for a normal distribution Corresponds to a coverage probability of approximately 95%.

Certificate No: Z17-97138 Page 2 of 8



Measurement Conditions

DASY system configuration, as far as not given on page 1.

| DASY Version | DASY52 | 52.10.0.1446 |
|------------------------------|--------------------------|--------------|
| Extrapolation | Advanced Extrapolation | |
| Phantom | Triple Flat Phantom 5 1C | |
| Distance Dipole Center - TSL | 10 mm | with Spacer |
| Zoom Scan Resolution | dx, dy, dz = 5 mm | |
| Frequency | 1800 MHz ± 1 MHz | |

Head TSL parameters

The following parameters and calculations were applied

| | Temperature | Permittivity | Conductivity |
|---|-----------------|--------------|------------------|
| Nominal Head TSL parameters | 22.0 °C | 40.0 | 1.40 mho/m |
| Measured Head TSL parameters | (22.0 ± 0.2) °C | 40.4 ± 6 % | 1.42 mho/m ± 6 % |
| Head TSL temperature change during test | <1.0 °C | --- | --- |

SAR result with Head TSL

| SAR averaged over 1 cm ² (1 g) of Head TSL | Condition | |
|---|--------------------|----------------------------|
| SAR measured | 250 mW input power | 9.79 mW / g |
| SAR for nominal Head TSL parameters | normalized to 1W | 38.9 mW / g ± 18.8 % (k=2) |
| SAR averaged over 10 cm ² (10 g) of Head TSL | Condition | |
| SAR measured | 250 mW input power | 5.12 mW / g |
| SAR for nominal Head TSL parameters | normalized to 1W | 20.4 mW / g ± 18.7 % (k=2) |

Body TSL parameters

The following parameters and calculations were applied

| | Temperature | Permittivity | Conductivity |
|---|-----------------|--------------|------------------|
| Nominal Body TSL parameters | 22.0 °C | 53.3 | 1.52 mho/m |
| Measured Body TSL parameters | (22.0 ± 0.2) °C | 53.8 ± 6 % | 1.50 mho/m ± 6 % |
| Body TSL temperature change during test | <1.0 °C | --- | --- |

SAR result with Body TSL

| SAR averaged over 1 cm ² (1 g) of Body TSL | Condition | |
|---|--------------------|----------------------------|
| SAR measured | 250 mW input power | 9.84 mW / g |
| SAR for nominal Body TSL parameters | normalized to 1W | 39.7 mW / g ± 18.8 % (k=2) |
| SAR averaged over 10 cm ² (10 g) of Body TSL | Condition | |
| SAR measured | 250 mW input power | 5.18 mW / g |
| SAR for nominal Body TSL parameters | normalized to 1W | 20.8 mW / g ± 18.7 % (k=2) |

Certificate No: Z17-97138 Page 3 of 8



Appendix (Additional assessments outside the scope of CNAS L0570)

Antenna Parameters with Head TSL

| | |
|--------------------------------------|---------------|
| Impedance, transformed to feed point | 49.3Ω; 1.55jΩ |
| Return Loss | - 35.4dB |

Antenna Parameters with Body TSL

| | |
|--------------------------------------|---------------|
| Impedance, transformed to feed point | 46.0Ω; 1.32jΩ |
| Return Loss | - 27.1dB |

General Antenna Parameters and Design

| | |
|----------------------------------|----------|
| Electrical Delay (one direction) | 1.318 ns |
|----------------------------------|----------|

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard. No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

| | |
|-----------------|-------|
| Manufactured by | SPEAG |
|-----------------|-------|

Certificate No: Z17-97138 Page 4 of 8

D1800V2 Sn:2d084

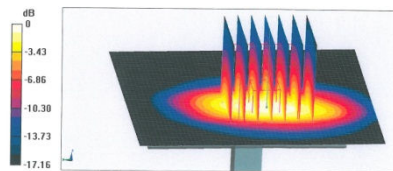
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DASY5 Validation Report for Head TSL Date: 09.15.2017
Test Laboratory: CTTI, Beijing, China
DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN: 2d084
Communication System: UTD 0, CW; Frequency: 1800 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1800$ MHz; $\sigma = 1.423$ S/m; $\epsilon_r = 40.37$; $\rho = 1000$ kg/m³
Phantom section: Left Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN7433; ConvF(7.97, 7.97, 7.97); Calibrated: 9/26/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1331; Calibrated: 1/19/2017
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1161/1
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

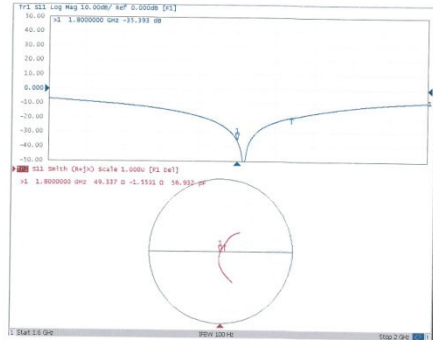
System Performance Check/Zoom Scan (7x7x7) (7x7x7)/Cube θ : Measurement grid:
 $d_x=5$ mm, $d_y=5$ mm, $d_z=5$ mm
Reference Value = 93.90 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 18.7 W/kg
SAR(1 g) = 9.79 W/kg; SAR(10 g) = 5.12 W/kg
Maximum value of SAR (measured) = 15.5 W/kg



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Impedance Measurement Plot for Head TSL



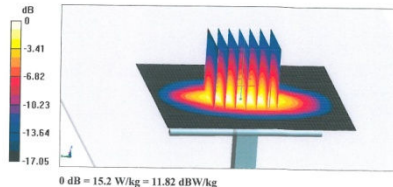
TTL In Collaboration with **s p e a g**
CALIBRATION LABORATORY

Address: No. 51 Xueyuan Road, Haidian District, Beijing, 100191, China
Tel: +86-10-62304633-2079 Fax: +86-10-62304633-2504
E-mail: cttl@china.ttl.com http://www.china.ttl.cn

DASY5 Validation Report for Body TSL Date: 09.14.2017
Test Laboratory: CTTI, Beijing, China
DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN: 2d084
Communication System: UTD 0, CW; Frequency: 1800 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1800$ MHz; $\sigma = 1.503$ S/m; $\epsilon_r = 53.79$; $\rho = 1000$ kg/m³
Phantom section: Center Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN7433; ConvF(7.75, 7.75, 7.75); Calibrated: 9/26/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1331; Calibrated: 1/19/2017
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1161/1
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7413)

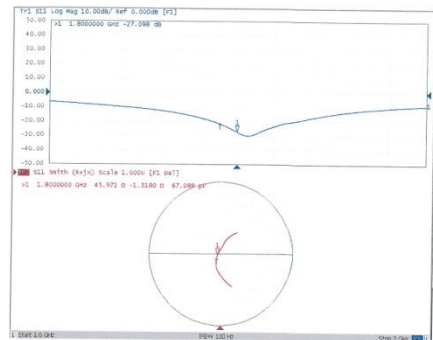
System Performance Check/Zoom Scan (7x7x7) (7x7x7)/Cube θ : Measurement grid:
 $d_x=5$ mm, $d_y=5$ mm, $d_z=5$ mm
Reference Value = 97.57 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 18.0 W/kg
SAR(1 g) = 9.84 W/kg; SAR(10 g) = 5.18 W/kg
Maximum value of SAR (measured) = 15.2 W/kg



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Impedance Measurement Plot for Body TSL



D2450V2 Sn:738



Client: SRTC Certificate No: Z17-97140

CALIBRATION CERTIFICATE

Object: D2450V2 - SN: 738

Calibration Procedure(s): FF-Z11-003-01
Calibration Procedures for dipole validation kits

Calibration date: September 18, 2017

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements(S). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature(22.3)°C and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID # | Cal Date(Calibrated by, Certificate No.) | Scheduled Calibration |
|------------------------|---------|--|-----------------------|
| Power Meter NRVD | 102196 | 02-Mar-17 (CTTL No.J17X01254) | Mar-18 |
| Power sensor NR.V.Z5 | 100596 | 02-Mar-17 (CTTL No.J17X01254) | Mar-18 |
| Reference Probe EX3DV4 | SN 7433 | 26-Sep-16(SPEAG.No.EX3-7433_Sep16) | Sep-17 |
| DAE4 | SN 1331 | 19-Jan-17(CTTL-SPEAG.No.Z17-97015) | Jan-18 |

| Secondary Standards | ID # | Cal Date(Calibrated by, Certificate No.) | Scheduled Calibration |
|-------------------------|------------|--|-----------------------|
| Signal Generator E4438C | MY49071430 | 13-Jan-17 (CTTL No.J17X00286) | Jan-18 |
| Network Analyzer E5071C | MY46110673 | 13-Jan-17 (CTTL No.J17X00285) | Jan-18 |

Calibrated by: Zhao Jing SAR Test Engineer

Reviewed by: Yu Zongying SAR Test Engineer

Approved by: Qi Dianyuan SAR Project Leader

Issued: September 21, 2017

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: Z17-97140 Page 1 of 8



Glossary:
TSL tissue simulating liquid
ConvF sensitivity in TSL / NORMx,y,z
N/A not applicable or not measured

Calibration is Performed According to the Following Standards:
a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
b) IEC 62209-1, "Measurement procedure for assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices- Part 1: Device used next to the ear (Frequency range of 300MHz to 6GHz)", July 2016
c) IEC 62209-2, "Procedure to measure the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30MHz to 6GHz)", March 2010
d) KDB85664, SAR Measurement Requirements for 100 MHz to 6 GHz

Additional Documentation:
e) DASy4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions:** Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:** The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss:** These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay:** One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured:** SAR measured at the stated antenna input power.
- SAR normalized:** SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters:** The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of Measurement multiplied by the coverage factor k=2, which for a normal distribution Corresponds to a coverage probability of approximately 95%.

Certificate No: Z17-97140 Page 2 of 8



Measurement Conditions
DASy system configuration, as far as not given on page 1.

| DASy Version | DASy52 | 52.10.0.1446 |
|------------------------------|--------------------------|--------------|
| Extrapolation | Advanced Extrapolation | |
| Phantom | Triple Flat Phantom 5.1C | |
| Distance Dipole Center - TSL | 10 mm | with Spacer |
| Zoom Scan Resolution | dx, dy, dz = 5 mm | |
| Frequency | 2450 MHz ± 1 MHz | |

Head TSL parameters
The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|-----------------|--------------|------------------|
| Nominal Head TSL parameters | 22.0 °C | 39.2 | 1.80 mho/m |
| Measured Head TSL parameters | (22.0 ± 0.2) °C | 38.7 ± 6 % | 1.79 mho/m ± 6 % |
| Head TSL temperature change during test | <1.0 °C | --- | --- |

SAR result with Head TSL

| SAR averaged over 1 cm ³ (1 g) of Head TSL | Condition | |
|---|--------------------|----------------------------|
| SAR measured | 250 mW input power | 13.1 mW / g |
| SAR for nominal Head TSL parameters | normalized to 1W | 52.4 mW / g ± 18.8 % (k=2) |
| SAR averaged over 10 cm ³ (10 g) of Head TSL | Condition | |
| SAR measured | 250 mW input power | 6.10 mW / g |
| SAR for nominal Head TSL parameters | normalized to 1W | 24.4 mW / g ± 18.7 % (k=2) |

Body TSL parameters
The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|-----------------|--------------|------------------|
| Nominal Body TSL parameters | 22.0 °C | 52.7 | 1.95 mho/m |
| Measured Body TSL parameters | (22.0 ± 0.2) °C | 52.5 ± 6 % | 1.98 mho/m ± 6 % |
| Body TSL temperature change during test | <1.0 °C | --- | --- |

SAR result with Body TSL

| SAR averaged over 1 cm ³ (1 g) of Body TSL | Condition | |
|---|--------------------|----------------------------|
| SAR measured | 250 mW input power | 13.2 mW / g |
| SAR for nominal Body TSL parameters | normalized to 1W | 52.3 mW / g ± 18.8 % (k=2) |
| SAR averaged over 10 cm ³ (10 g) of Body TSL | Condition | |
| SAR measured | 250 mW input power | 6.10 mW / g |
| SAR for nominal Body TSL parameters | normalized to 1W | 24.3 mW / g ± 18.7 % (k=2) |

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Appendix (Additional assessments outside the scope of CNAS L0570)

Antenna Parameters with Head TSL

| | |
|--------------------------------------|-----------------|
| Impedance, transformed to feed point | 51.30 ± 5.92(j) |
| Return Loss | - 24.5dB |

Antenna Parameters with Body TSL

| | |
|--------------------------------------|-------------------|
| Impedance, transformed to feed point | 47.6(j) ± 6.39(j) |
| Return Loss | - 23.1dB |

General Antenna Parameters and Design

| | |
|----------------------------------|----------|
| Electrical Delay (one direction) | 1.268 ns |
|----------------------------------|----------|

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard. No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

| | |
|-----------------|-------|
| Manufactured by | SPEAG |
|-----------------|-------|

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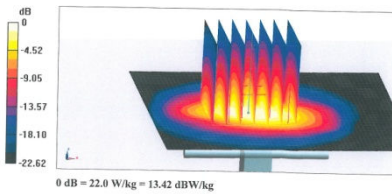
D2450V2 Sn:738



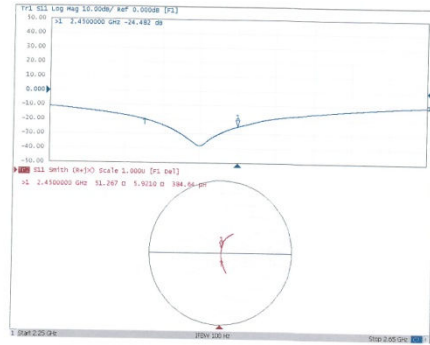
DASY5 Validation Report for Head TSL Date: 09.18.2017
Test Laboratory: C-TTL, Beijing, China
DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN: 738
Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2450$ MHz; $\sigma = 1.788$ S/m; $\epsilon_r = 38.67$; $\rho = 1000$ kg/m³
Phantom section: Left Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN7433; ConvF(7.45, 7.45, 7.45); Calibrated: 9/26/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1331; Calibrated: 1/19/2017
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1161/1
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Dipole Calibration/Zoom Scan (7x7x7) (7x7x7) Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 102.1 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 27.8 W/kg
SAR(1 g) = 13.1 W/kg; SAR(10 g) = 6.1 W/kg
Maximum value of SAR (measured) = 22.0 W/kg



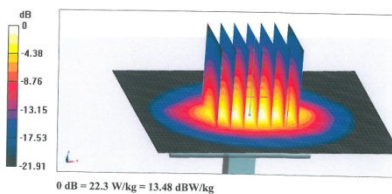
Impedance Measurement Plot for Head TSL



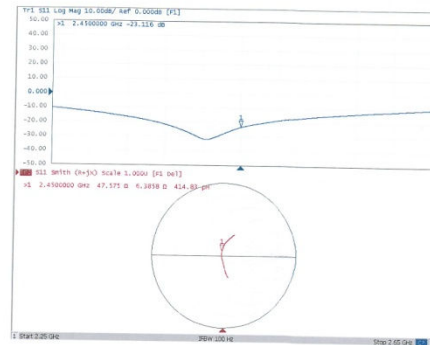
DASY5 Validation Report for Body TSL Date: 09.18.2017
Test Laboratory: C-TTL, Beijing, China
DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN: 738
Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2450$ MHz; $\sigma = 1.983$ S/m; $\epsilon_r = 52.51$; $\rho = 1000$ kg/m³
Phantom section: Center Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN7433; ConvF(7.46, 7.46, 7.46); Calibrated: 9/26/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1331; Calibrated: 1/19/2017
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1161/1
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Dipole Calibration/Zoom Scan (7x7x7) (7x7x7) Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 96.41 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 27.8 W/kg
SAR(1 g) = 13.2 W/kg; SAR(10 g) = 6.1 W/kg
Maximum value of SAR (measured) = 22.3 W/kg



Impedance Measurement Plot for Body TSL



-----End of the test report-----