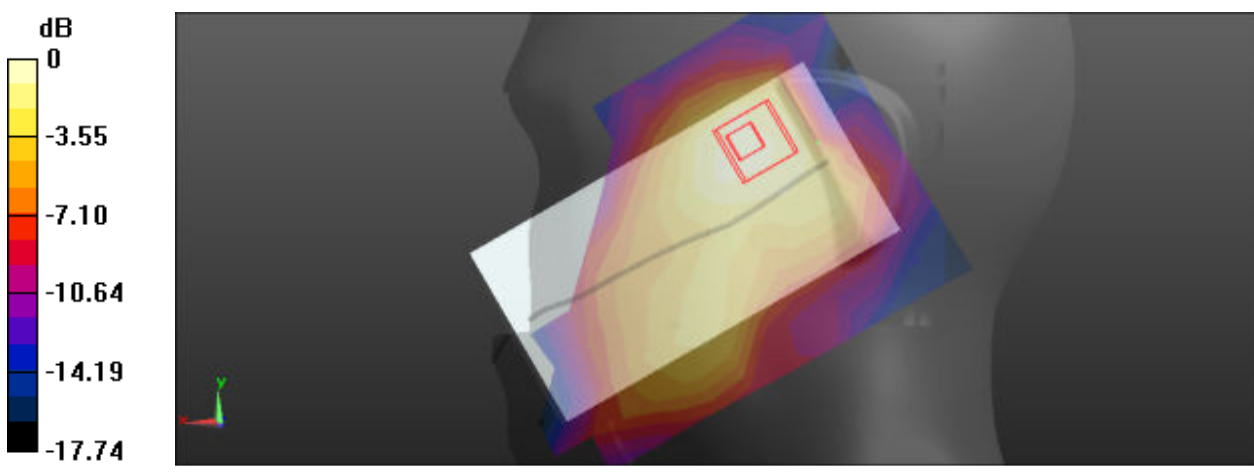
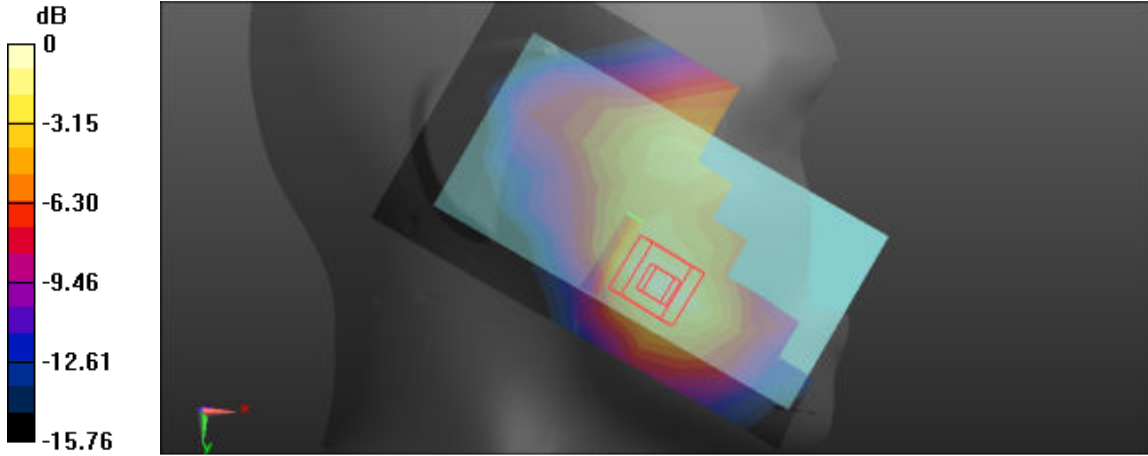
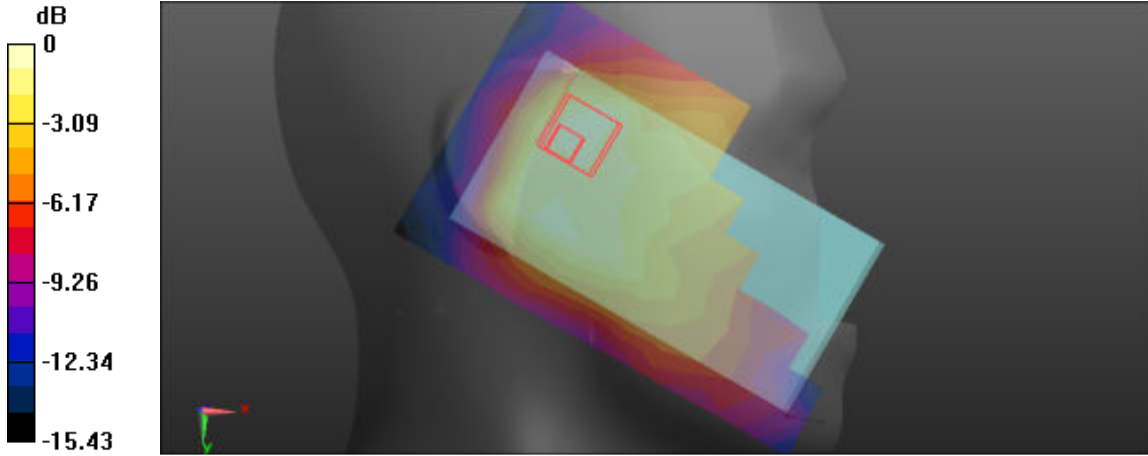
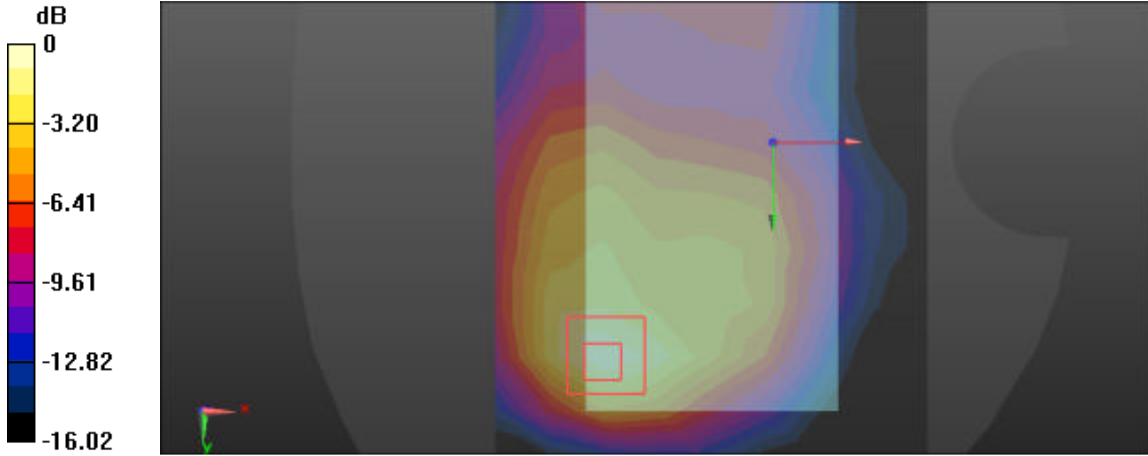


Left Side	Tilt
<p>Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: <math>f = 1880 \text{ MHz}</math>; <math>\sigma = 1.45 \text{ S/m}</math>; <math>\epsilon_r = 39.74</math>; <math>\rho = 1000 \text{ kg/m}^3</math> Phantom section: Left Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL wcdma band2 Left/wcdma band2 HSL tilt M/Area Scan (9x13x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math> Maximum value of SAR (measured) = 0.124 W/kg</p> <p><b>Head-Section HSL wcdma band2 Left/wcdma band2 HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math> Reference Value = 7.227 V/m; Power Drift = 0.13 dB Peak SAR (extrapolated) = 0.192 W/kg <b>SAR(1 g) = 0.126 W/kg; SAR(10 g) = 0.080 W/kg</b> Maximum value of SAR (measured) = 0.136 W/kg</p>	
 <p>0 dB = 0.136 W/kg = -8.66 dBW/kg</p>	

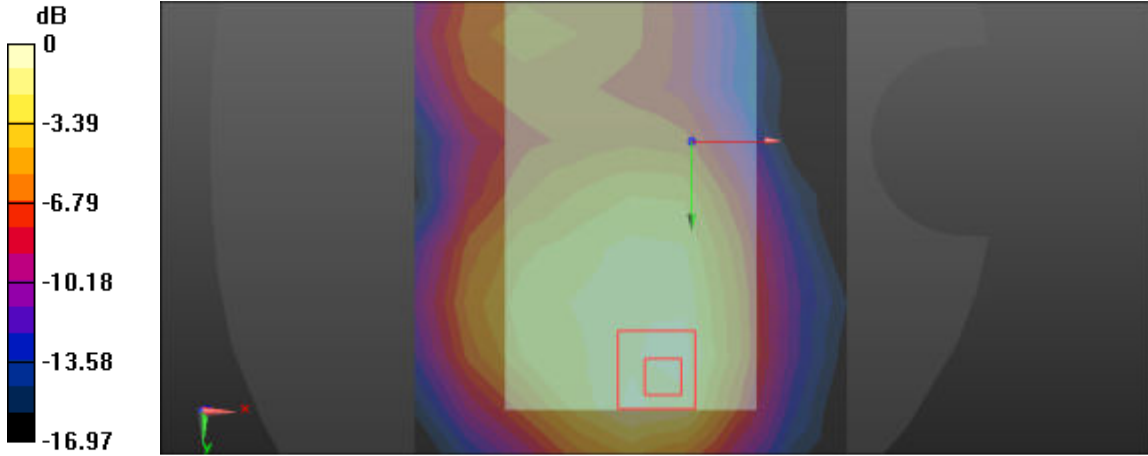
Right Side	Cheek
<p>Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: <math>f = 1880 \text{ MHz}</math>; <math>\sigma = 1.45 \text{ S/m}</math>; <math>\epsilon_r = 39.74</math>; <math>\rho = 1000 \text{ kg/m}^3</math> Phantom section: Right Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL wcdma band2 Right/wcdma band2 HSL touch M/Area Scan (8x13x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math> Maximum value of SAR (measured) = 0.264 W/kg</p> <p><b>Head-Section HSL wcdma band2 Right/wcdma band2 HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math> Reference Value = 3.458 V/m; Power Drift = 0.00 dB Peak SAR (extrapolated) = 0.380 W/kg <b>SAR(1 g) = 0.250 W/kg; SAR(10 g) = 0.152 W/kg</b> Maximum value of SAR (measured) = 0.272 W/kg</p>	
 <p>0 dB = 0.272 W/kg = -5.65 dBW/kg</p>	

Right Side	Tilt
<p>Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: <math>f = 1880 \text{ MHz}</math>; <math>\sigma = 1.45 \text{ S/m}</math>; <math>\epsilon_r = 39.74</math>; <math>\rho = 1000 \text{ kg/m}^3</math> Phantom section: Right Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL wcdma band2 Right/wcdma band2 HSL tilt/Area Scan (8x13x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math> Maximum value of SAR (measured) = 0.0881 W/kg</p> <p><b>Head-Section HSL wcdma band2 Right/wcdma band2 HSL tilt/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math> Reference Value = 6.343 V/m; Power Drift = 0.21 dB Peak SAR (extrapolated) = 0.129 W/kg <b>SAR(1 g) = 0.087 W/kg; SAR(10 g) = 0.052 W/kg</b> Maximum value of SAR (measured) = 0.0953 W/kg</p>	
 <p>0 dB = 0.0953 W/kg = -10.21 dBW/kg</p>	

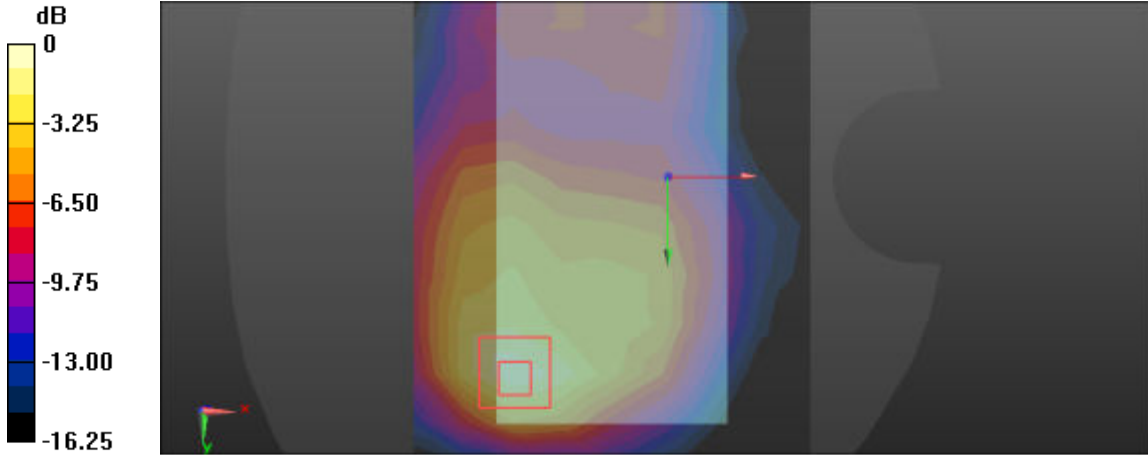
FLAT(VIOCE)	Towards phantom
Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1880 MHz; $\sigma = 1.57$ S/m; $\epsilon_r = 51.14$ ; $\rho = 1000$ kg/m <sup>3</sup> Phantom section: Flat Section	
DASY5 Configuration:	
<ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band2 TG&amp;TP/wcdma band2 TP voice M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.461 W/kg</p> <p><b>Flat-Section MSL wcdma band2 TG&amp;TP/wcdma band2 TP voice M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 9.598 V/m; Power Drift = -0.07 dB            Peak SAR (extrapolated) = 0.794 W/kg  <b>SAR(1 g) = 0.454 W/kg; SAR(10 g) = 0.276 W/kg</b>            Maximum value of SAR (measured) = 0.488 W/kg</p>	
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p>dB</p> <p>0 -2.77 -5.53 -8.30 -11.06 -13.83</p> </div> <div style="flex-grow: 1;"> </div> </div> <p style="text-align: center;">0 dB = 0.488 W/kg = -3.12 dBW/kg</p>	

FLAT(VIOCE)	Towards ground
Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: $f = 1880 \text{ MHz}$ ; $\sigma = 1.57 \text{ S/m}$ ; $\epsilon_r = 51.14$ ; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section	
DASY5 Configuration:	
<ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band2 TG&amp;TP/wcdma band2 TG voice M 10mm/Area Scan (9x13x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math>            Maximum value of SAR (measured) = 0.637 W/kg</p> <p><b>Flat-Section MSL wcdma band2 TG&amp;TP/wcdma band2 TG voice M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math>            Reference Value = 9.305 V/m; Power Drift = -0.02 dB            Peak SAR (extrapolated) = 1.01 W/kg  <b>SAR(1 g) = 0.572 W/kg; SAR(10 g) = 0.315 W/kg</b>            Maximum value of SAR (measured) = 0.632 W/kg</p>	
 <p>0 dB = 0.632 W/kg = -1.99 dBW/kg</p>	

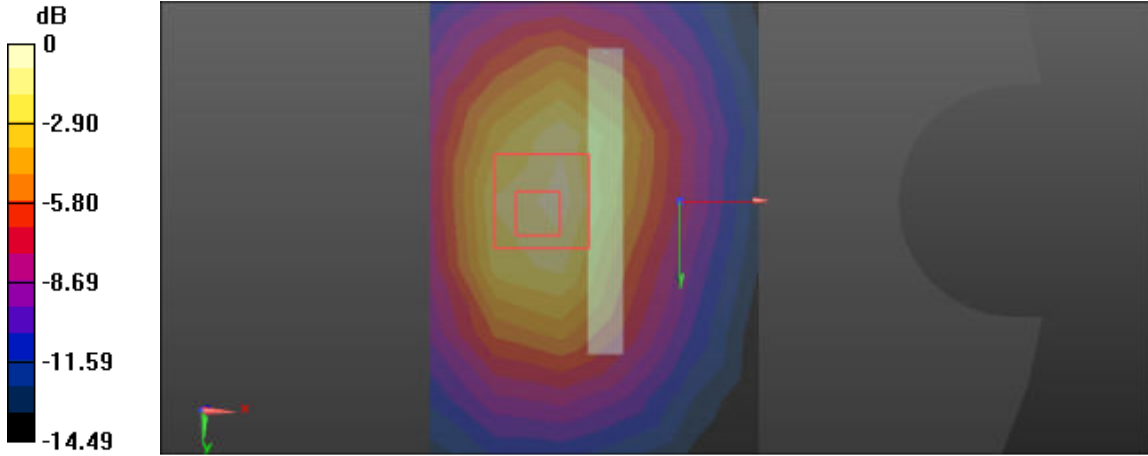
FLAT(VIOCE)	Towards ground
Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: $f = 1880 \text{ MHz}$ ; $\sigma = 1.57 \text{ S/m}$ ; $\epsilon_r = 51.14$ ; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section	
DASY5 Configuration:	
<ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band2 TG&amp;TP/wcdma band2 TG voice M 10mm/Area Scan (9x13x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math>            Maximum value of SAR (measured) = 0.562 W/kg</p> <p><b>Flat-Section MSL wcdma band2 TG&amp;TP/wcdma band2 TG voice M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math>            Reference Value = 8.866 V/m; Power Drift = -0.12 dB            Peak SAR (extrapolated) = 0.94 W/kg  <b>SAR(1 g) = 0.533 W/kg; SAR(10 g) = 0.275 W/kg</b>            Maximum value of SAR (measured) = 0.613 W/kg</p>	
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p>dB</p> <p>0 -3.20 -6.41 -9.61 -12.82 -16.02</p> </div> <div style="flex-grow: 1;"> </div> </div> <p style="text-align: center;">0 dB = 0.0842 W/kg = -10.37 dBW/kg</p>	

FLAT(DATA)	Towards phantom
Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1880 MHz; $\sigma = 1.57$ S/m; $\epsilon_r = 51.14$ ; $\rho = 1000$ kg/m <sup>3</sup> Phantom section: Flat Section	
DASY5 Configuration:	
<ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band2 TG&amp;TP/wcdma band2 TP DATA M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.403 W/kg</p> <p><b>Flat-Section MSL wcdma band2 TG&amp;TP/wcdma band2 TP DATA M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 8.642 V/m; Power Drift = 0.08 dB            Peak SAR (extrapolated) = 0.736 W/kg  <b>SAR(1 g) = 0.418 W/kg; SAR(10 g) = 0.241 W/kg</b>            Maximum value of SAR (measured) = 0.457 W/kg</p>	
 <p>0 dB = 0.457 W/kg = -3.40 dBW/kg</p>	

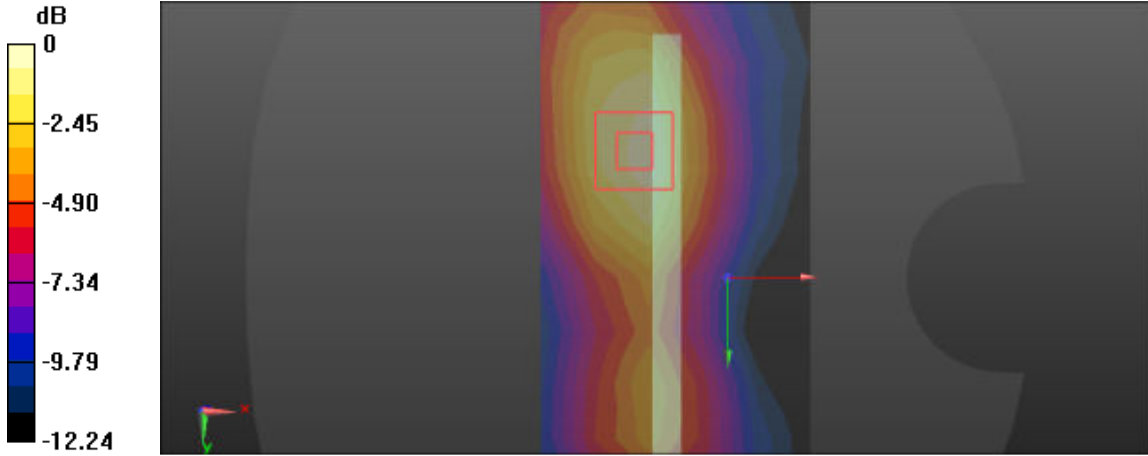


FLAT(DATA)	Towards ground
Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1880 MHz; $\sigma = 1.57$ S/m; $\epsilon_r = 51.14$ ; $\rho = 1000$ kg/m <sup>3</sup> Phantom section: Flat Section	
DASY5 Configuration:	
<ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band2 TG&amp;TP/wcdma band2 TG DATA M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.628 W/kg</p> <p><b>Flat-Section MSL wcdma band2 TG&amp;TP/wcdma band2 TG DATA M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 8.611 V/m; Power Drift = 0.14 dB            Peak SAR (extrapolated) = 0.999 W/kg  <b>SAR(1 g) = 0.568 W/kg; SAR(10 g) = 0.314 W/kg</b>            Maximum value of SAR (measured) = 0.633 W/kg</p>	
 <p>0 dB = 0.0853 W/kg = -10.69 dBW/kg</p>	

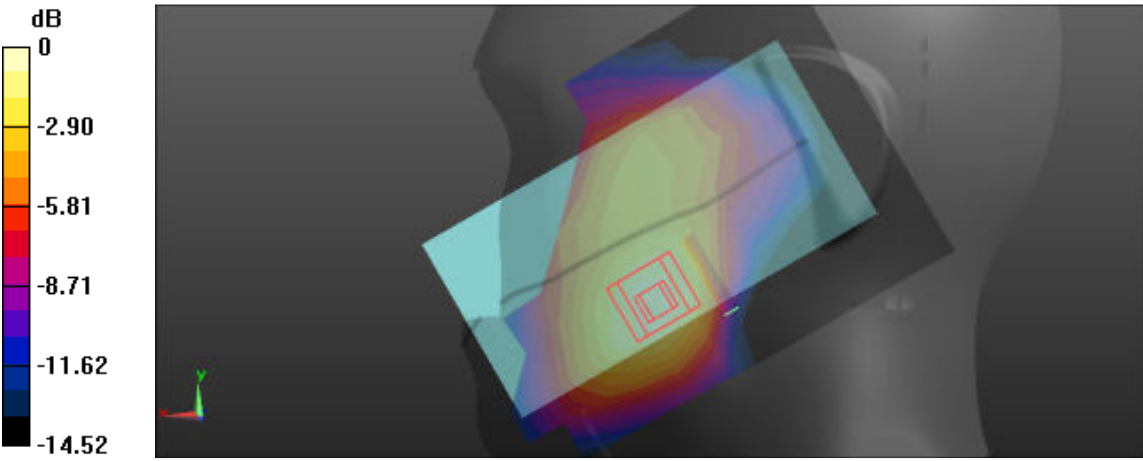


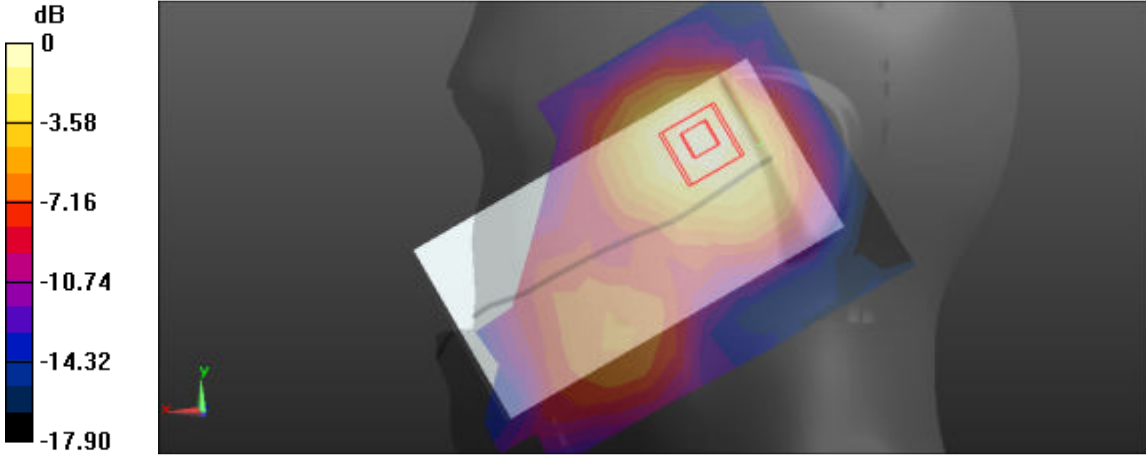
FLAT	EDGE2
Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1880 MHz; $\sigma = 1.57$ S/m; $\epsilon_r = 51.14$ ; $\rho = 1000$ kg/m <sup>3</sup> Phantom section: Flat Section	
DASY5 Configuration:	
<ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band2 HOT/wcdma band2 10mm M edge 2/Area Scan (6x11x1):</b> Measurement grid: dx=15mm, dy=15mm                      Maximum value of SAR (measured) = 0.542 W/kg</p> <p><b>Flat-Section MSL wcdma band2 HOT/wcdma band2 10mm M edge 2/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm                      Reference Value = 13.82 V/m; Power Drift = 0.03 dB                      Peak SAR (extrapolated) = 0.893 W/kg  <b>SAR(1 g) = 0.541 W/kg; SAR(10 g) = 0.313 W/kg</b>                      Maximum value of SAR (measured) = 0.593 W/kg</p>	
 <p>0 dB = 0.593 W/kg = -2.27 dBW/kg</p>	

FLAT	EDGE3
<p>Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1            Medium parameters used: f = 1880 MHz; <math>\sigma = 1.57</math> S/m; <math>\epsilon_r = 51.14</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band2 HOT/wcdma band2 10mm M edge 3/Area Scan (6x15x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.0766 W/kg</p> <p><b>Flat-Section MSL wcdma band2 HOT/wcdma band2 10mm M edge 3/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 4.139 V/m; Power Drift = 0.07 dB            Peak SAR (extrapolated) = 0.131 W/kg  <b>SAR(1 g) = 0.080 W/kg; SAR(10 g) = 0.051 W/kg</b>            Maximum value of SAR (measured) = 0.0853 W/kg</p> <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 10px;"> <p>dB</p> <p>0 -2.54 -5.08 -7.62 -10.16 -12.70</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.0853 W/kg = -10.69 dBW/kg</p>	

FLAT	EDGE4
<p>Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1880 MHz; <math>\sigma = 1.57</math> S/m; <math>\epsilon_r = 51.14</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band2 HOT/wcdma band2 10mm M edge 4/Area Scan (6x15x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.392 W/kg</p> <p><b>Flat-Section MSL wcdma band2 HOT/wcdma band2 10mm M edge 4/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 9.672 V/m; Power Drift = 0.18 dB Peak SAR (extrapolated) = 0.604 W/kg <b>SAR(1 g) = 0.382 W/kg; SAR(10 g) = 0.234 W/kg</b> Maximum value of SAR (measured) = 0.415 W/kg</p>	
 <p>0 dB = 0.415 W/kg = -3.82 dBW/kg</p>	

**WCDMA Band 4**

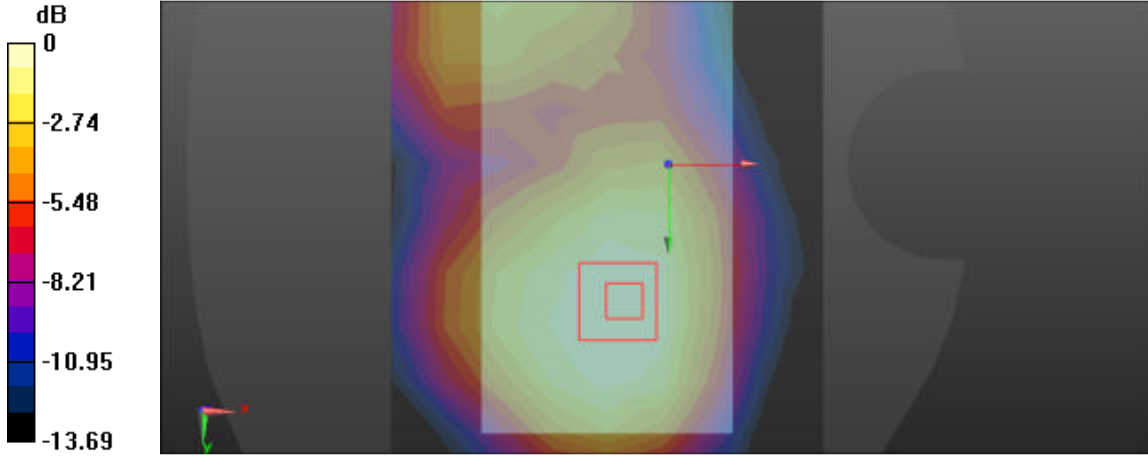
Left Side	Cheek
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz; Duty Cycle: 1:1.95434            Medium parameters used (interpolated): <math>f = 1732.6</math> MHz; <math>\sigma = 1.304</math> S/m; <math>\epsilon_r = 40.408</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Left Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL wcdma band4 Left/wcdma band4 HSL touch M/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.345 W/kg</p> <p><b>Head-Section HSL wcdma band4 Left/wcdma band4 HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 5.368 V/m; Power Drift = 0.17 dB            Peak SAR (extrapolated) = 0.529 W/kg  <b>SAR(1 g) = 0.353 W/kg; SAR(10 g) = 0.230 W/kg</b>            Maximum value of SAR (measured) = 0.379 W/kg</p>	
 <p>0 dB = 0.379 W/kg = -4.21 dBW/kg</p>	

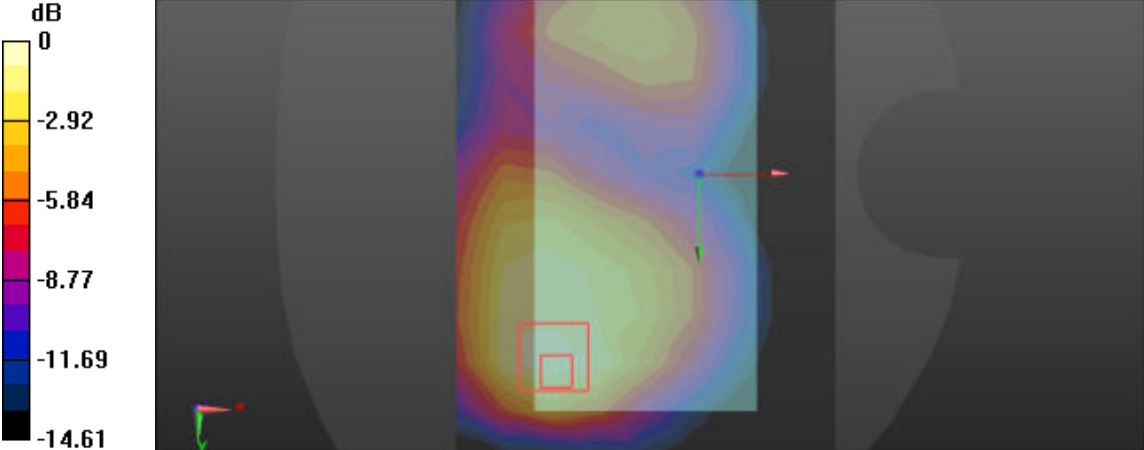
Left Side	Tilt
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz; Duty Cycle: 1:1.95434            Medium parameters used (interpolated): <math>f = 1732.6</math> MHz; <math>\sigma = 1.304</math> S/m; <math>\epsilon_r = 40.408</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Left Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL wcdma band4 Left/wcdma band4 HSL tilt M/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.209 W/kg</p> <p><b>Head-Section HSL wcdma band4 Left/wcdma band4 HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 10.23 V/m; Power Drift = 0.02 dB            Peak SAR (extrapolated) = 0.275 W/kg  <b>SAR(1 g) = 0.200 W/kg; SAR(10 g) = 0.133 W/kg</b>            Maximum value of SAR (measured) = 0.213 W/kg</p>	
 <p>0 dB = 0.213 W/kg = -6.72 dBW/kg</p>	

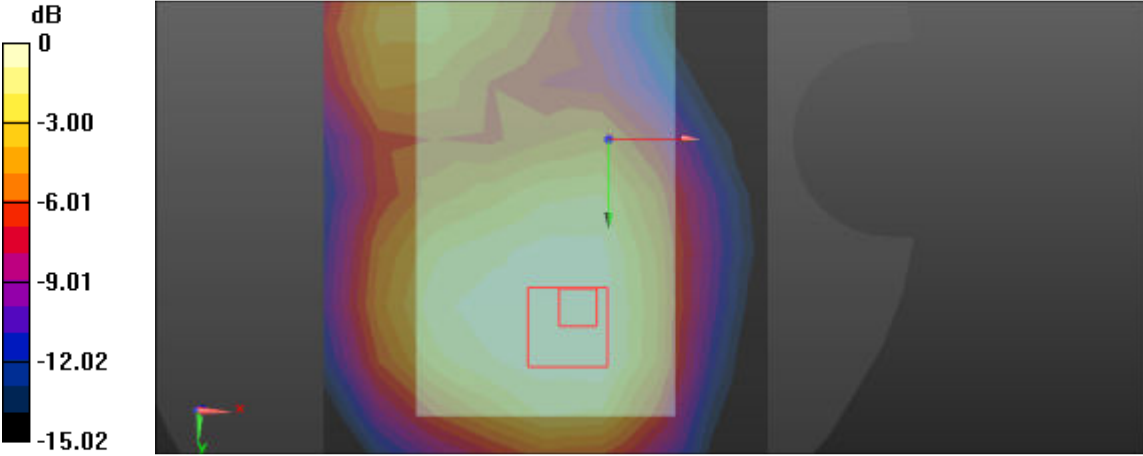
Right Side	Cheek
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz; Duty Cycle: 1:1.95434            Medium parameters used (interpolated): <math>f = 1732.6</math> MHz; <math>\sigma = 1.304</math> S/m; <math>\epsilon_r = 40.408</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Right Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL wcdma band4 Right/wcdma band4 HSL touch M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.260 W/kg</p> <p><b>Head-Section HSL wcdma band4 Right/wcdma band4 HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 5.602 V/m; Power Drift = 0.07 dB            Peak SAR (extrapolated) = 0.361 W/kg  <b>SAR(1 g) = 0.246 W/kg; SAR(10 g) = 0.157 W/kg</b>            Maximum value of SAR (measured) = 0.265 W/kg</p> <div data-bbox="215 1205 1369 1657"> </div>	

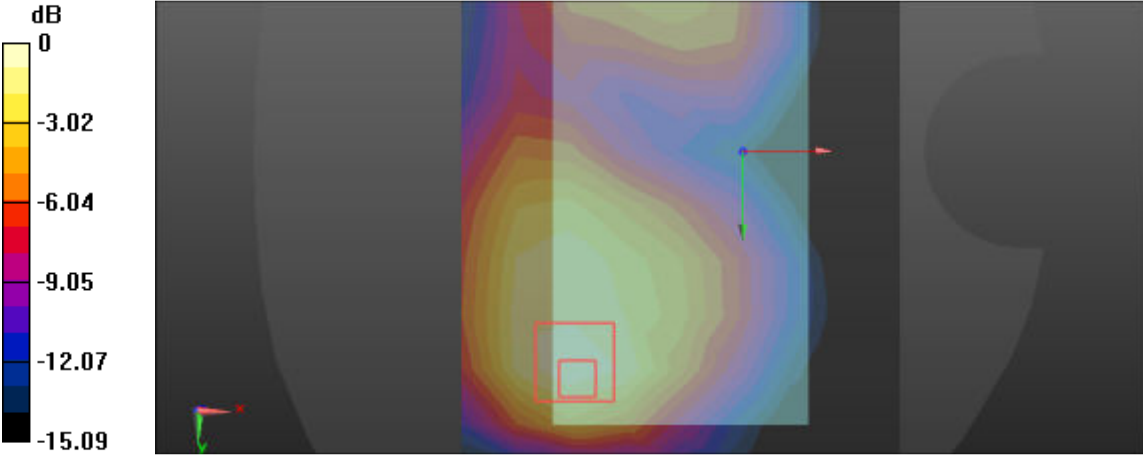
Right Side	Tilt
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz; Duty Cycle: 1:1.95434            Medium parameters used (interpolated): <math>f = 1732.6</math> MHz; <math>\sigma = 1.304</math> S/m; <math>\epsilon_r = 40.408</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Right Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL wcdma band4 Right/wcdma band4 HSL tilt/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.168 W/kg</p> <p><b>Head-Section HSL wcdma band4 Right/wcdma band4 HSL tilt/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 9.780 V/m; Power Drift = -0.02 dB            Peak SAR (extrapolated) = 0.250 W/kg  <b>SAR(1 g) = 0.170 W/kg; SAR(10 g) = 0.110 W/kg</b>            Maximum value of SAR (measured) = 0.184 W/kg</p> <div data-bbox="215 1205 1369 1657"> </div>	

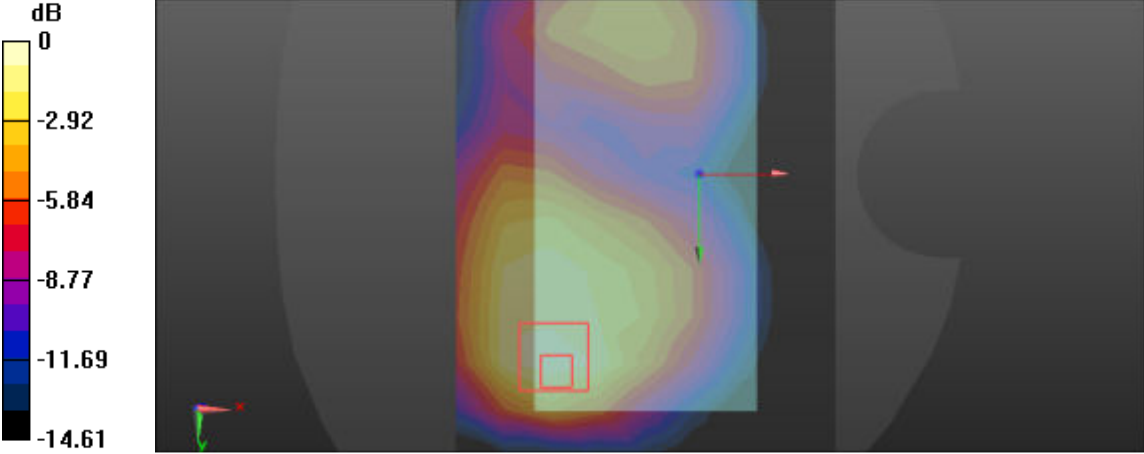


FLAT(VIOCE)	Towards phantom
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz; Duty Cycle: 1:1.95434            Medium parameters used (interpolated): <math>f = 1732.6</math> MHz; <math>\sigma = 1.404</math> S/m; <math>\epsilon_r = 51.622</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band4 TG&amp;TP/wcdma band4 TP voice M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.399 W/kg</p> <p><b>Flat-Section MSL wcdma band4 TG&amp;TP/wcdma band4 TP voice M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 10.97 V/m; Power Drift = -0.19 dB            Peak SAR (extrapolated) = 0.573 W/kg  <b>SAR(1 g) = 0.380 W/kg; SAR(10 g) = 0.251 W/kg</b>            Maximum value of SAR (measured) = 0.404 W/kg</p>	
 <p>0 dB = 0.404 W/kg = -3.94 dBW/kg</p>	

FLAT(VIOCE )	Towards ground
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz; Duty Cycle: 1:1.95434            Medium parameters used (interpolated): <math>f = 1732.6</math> MHz; <math>\sigma = 1.404</math> S/m; <math>\epsilon_r = 51.622</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band4 TG&amp;TP/wcdma band4 TG voice M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.725 W/kg</p> <p><b>Flat-Section MSL wcdma band4 TG&amp;TP/wcdma band4 TG voice M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 6.566 V/m; Power Drift = 0.09 dB            Peak SAR (extrapolated) = 1.14 W/kg  <b>SAR(1 g) = 0.662 W/kg; SAR(10 g) = 0.389 W/kg</b>            Maximum value of SAR (measured) = 0.730 W/kg</p>	
 <p>0 dB = 0.730 W/kg = -1.37 dBW/kg</p>	

FLAT(DATA)	Towards phantom
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz; Duty Cycle: 1:1.95434            Medium parameters used (interpolated): <math>f = 1732.6</math> MHz; <math>\sigma = 1.404</math> S/m; <math>\epsilon_r = 51.622</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band4 TG&amp;TP/wcdma band4 TP DATA M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.413 W/kg</p> <p><b>Flat-Section MSL wcdma band4 TG&amp;TP/wcdma band4 TP DATA M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 9.740 V/m; Power Drift = -0.05 dB            Peak SAR (extrapolated) = 0.655 W/kg  <b>SAR(1 g) = 0.402 W/kg; SAR(10 g) = 0.264 W/kg</b>            Maximum value of SAR (measured) = 0.428 W/kg</p>	
 <p>0 dB = 0.428 W/kg = -3.69 dBW/kg</p>	

FLAT(DATA)	Towards ground
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz; Duty Cycle: 1:1.95434            Medium parameters used (interpolated): <math>f = 1732.6</math> MHz; <math>\sigma = 1.404</math> S/m; <math>\epsilon_r = 51.622</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band4 TG&amp;TP/wcdma band4 TG DATA M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.760 W/kg</p> <p><b>Flat-Section MSL wcdma band4 TG&amp;TP/wcdma band4 TG DATA M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 6.521 V/m; Power Drift = 0.09 dB            Peak SAR (extrapolated) = 1.19 W/kg  <b>SAR(1 g) = 0.702 W/kg; SAR(10 g) = 0.420 W/kg</b>            Maximum value of SAR (measured) = 0.768 W/kg</p>	
 <p>0 dB = 0.768 W/kg = -1.15 dBW/kg</p>	

FLAT(VIOCE )	Towards ground
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz; Duty Cycle: 1:1.95434            Medium parameters used (interpolated): <math>f = 1732.6</math> MHz; <math>\sigma = 1.404</math> S/m; <math>\epsilon_r = 51.622</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band4 TG&amp;TP/wcdma band4 TG voice M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.641 W/kg</p> <p><b>Flat-Section MSL wcdma band4 TG&amp;TP/wcdma band4 TG voice M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 7.364 V/m; Power Drift = 0.04 dB            Peak SAR (extrapolated) = 1.03 W/kg  <b>SAR(1 g) = 0.611 W/kg; SAR(10 g) = 0.292 W/kg</b>            Maximum value of SAR (measured) = 0.613 W/kg</p>	
 <p>0 dB = 0.630 W/kg = -1.22 dBW/kg</p>	

FLAT	EDGE2
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Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz; Duty Cycle: 1:1.95434  
 Medium parameters used (interpolated):  $f = 1732.6$  MHz;  $\sigma = 1.404$  S/m;  $\epsilon_r = 51.622$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

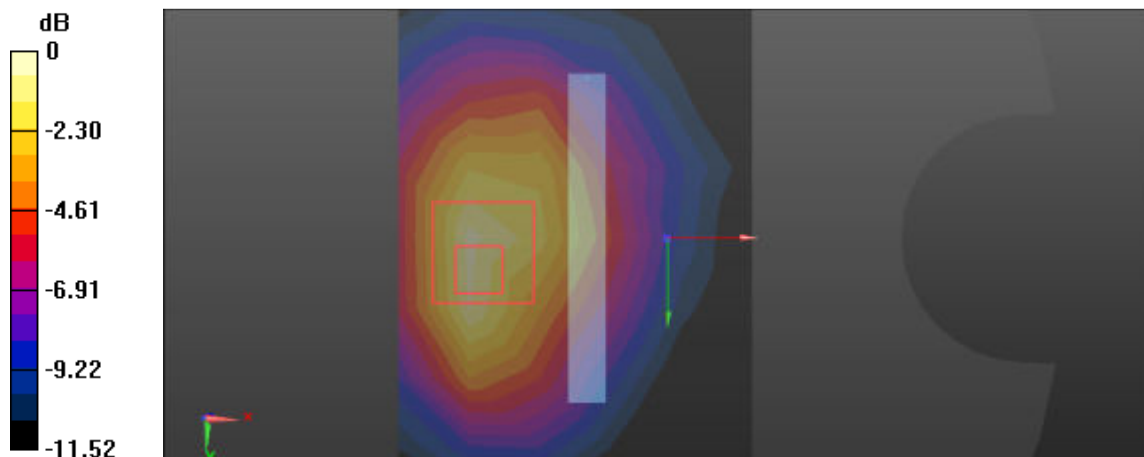
DASY5 Configuration:

- Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 2016/10/31
- Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

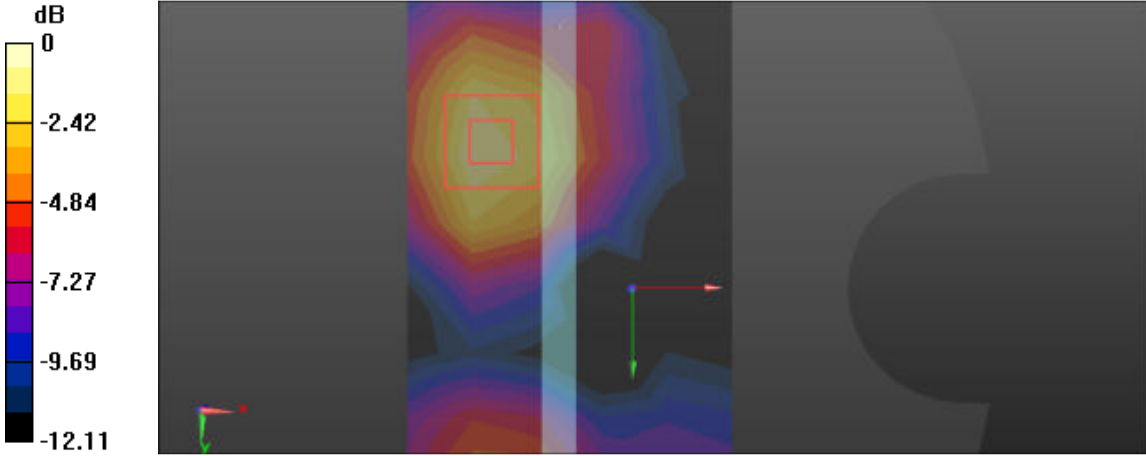
**Flat-Section MSL wcdma band4 HOT/wcdma band4 10mm M edge 2/Area Scan (6x11x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 0.372 W/kg

**Flat-Section MSL wcdma band4 HOT/wcdma band4 10mm M edge 2/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 11.17 V/m; Power Drift = 0.18 dB

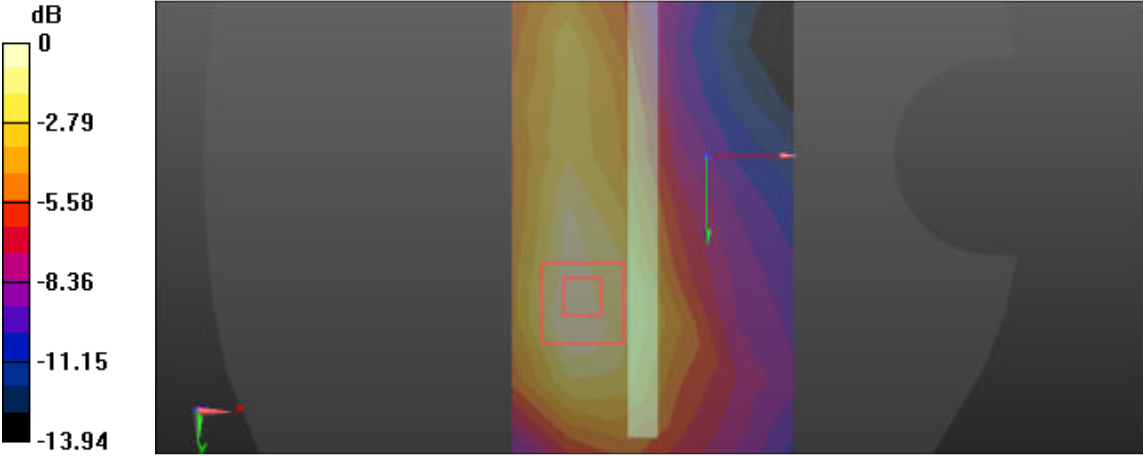
Peak SAR (extrapolated) = 0.558 W/kg  
**SAR(1 g) = 0.373 W/kg; SAR(10 g) = 0.232 W/kg**  
 Maximum value of SAR (measured) = 0.413 W/kg



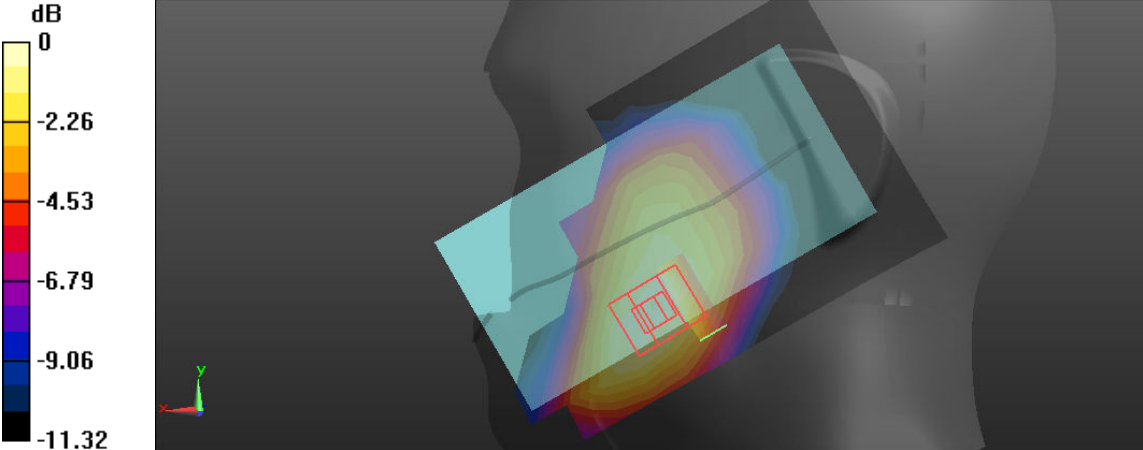
0 dB = 0.413 W/kg = -3.84 dBW/kg

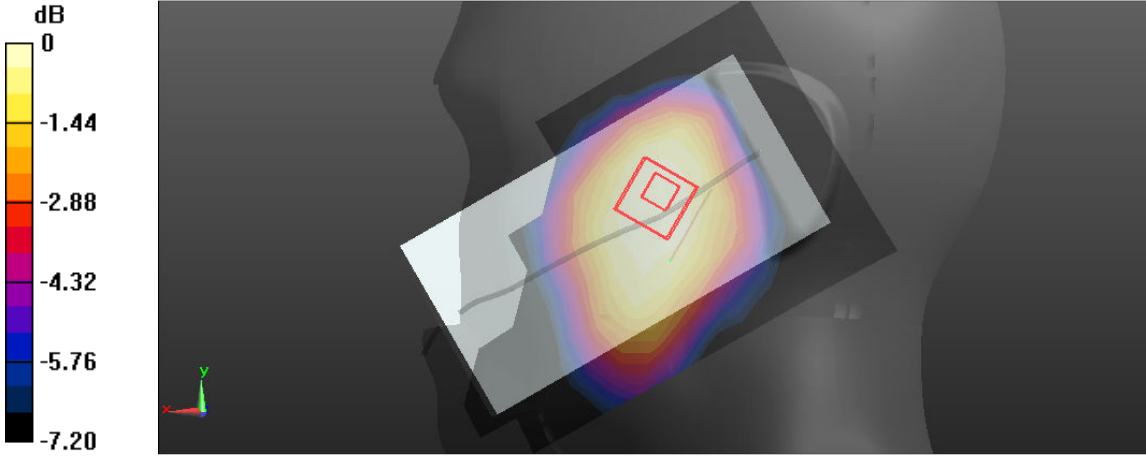
FLAT	EDGE3
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz; Duty Cycle: 1:1.95434            Medium parameters used (interpolated): <math>f = 1732.6</math> MHz; <math>\sigma = 1.404</math> S/m; <math>\epsilon_r = 51.622</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band4 HOT/wcdma band4 10mm M edge 3/Area Scan (6x15x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.124 W/kg</p> <p><b>Flat-Section MSL wcdma band4 HOT/wcdma band4 10mm M edge 3/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 3.861 V/m; Power Drift = -0.06 dB            Peak SAR (extrapolated) = 0.206 W/kg  <b>SAR(1 g) = 0.130 W/kg; SAR(10 g) = 0.082 W/kg</b>            Maximum value of SAR (measured) = 0.147 W/kg</p>	
 <p>0 dB = 0.147 W/kg = -8.33 dBW/kg</p>	

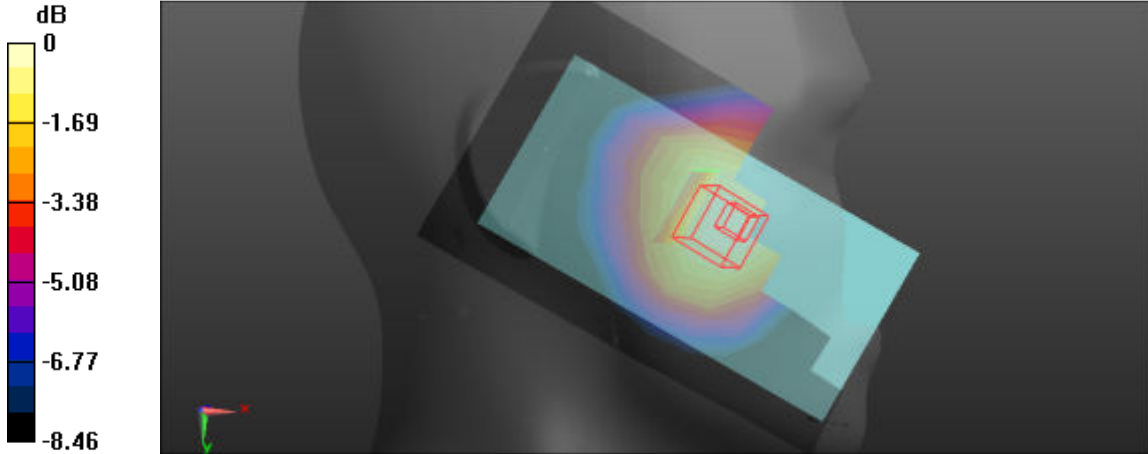


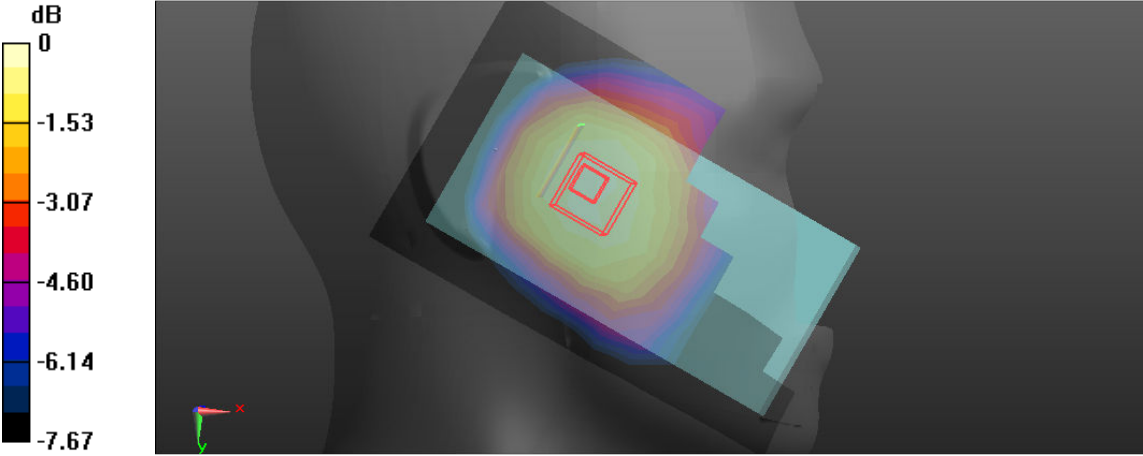
FLAT	EDGE4
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz; Duty Cycle: 1:1.95434            Medium parameters used (interpolated): <math>f = 1732.6</math> MHz; <math>\sigma = 1.404</math> S/m; <math>\epsilon_r = 51.622</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band4 HOT/wcdma band4 10mm M edge 4/Area Scan (6x15x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.226 W/kg</p> <p><b>Flat-Section MSL wcdma band4 HOT/wcdma band4 10mm M edge 4/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 6.757 V/m; Power Drift = 0.09 dB            Peak SAR (extrapolated) = 0.323 W/kg  <b>SAR(1 g) = 0.186 W/kg; SAR(10 g) = 0.115 W/kg</b>            Maximum value of SAR (measured) = 0.207 W/kg</p>	
 <p>0 dB = 0.207 W/kg = -6.84 dBW/kg</p>	

**WCDMA Band 5**

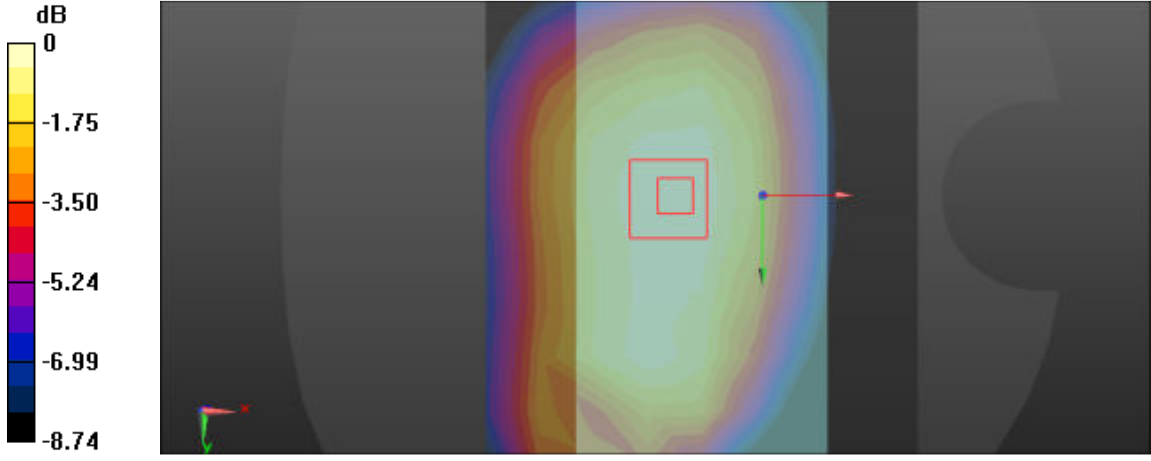
Left Side	Cheek
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz; Duty Cycle: 1:1.95434            Medium parameters used (interpolated): <math>f = 836.6</math> MHz; <math>\sigma = 0.89</math> S/m; <math>\epsilon_r = 41.478</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Left Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(9.05, 9.05, 9.05); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 3mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL wcdma band5 Left/wcdma band5 HSL touch M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.150 W/kg</p> <p><b>Head-Section HSL wcdma band5 Left/wcdma band5 HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 2.322 V/m; Power Drift = -0.05 dB            Peak SAR (extrapolated) = 0.180 W/kg  <b>SAR(1 g) = 0.135 W/kg; SAR(10 g) = 0.096 W/kg</b>            Maximum value of SAR (measured) = 0.152 W/kg</p>	
 <p>0 dB = 0.152 W/kg = -8.18 dBW/kg</p>	

Left Side	Tilt
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz; Duty Cycle: 1:1.95434            Medium parameters used (interpolated): <math>f = 836.6</math> MHz; <math>\sigma = 0.89</math> S/m; <math>\epsilon_r = 41.478</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Left Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(9.05, 9.05, 9.05); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 3mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL wcdma band5 Left/wcdma band5 HSL tilt/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.0711 W/kg</p> <p><b>Head-Section HSL wcdma band5 Left/wcdma band5 HSL tilt/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 4.678 V/m; Power Drift = 0.06 dB            Peak SAR (extrapolated) = 0.0790 W/kg  <b>SAR(1 g) = 0.065 W/kg; SAR(10 g) = 0.052 W/kg</b>            Maximum value of SAR (measured) = 0.0696 W/kg</p>	
 <p>0 dB = 0.0696 W/kg = -11.57 dBW/kg</p>	

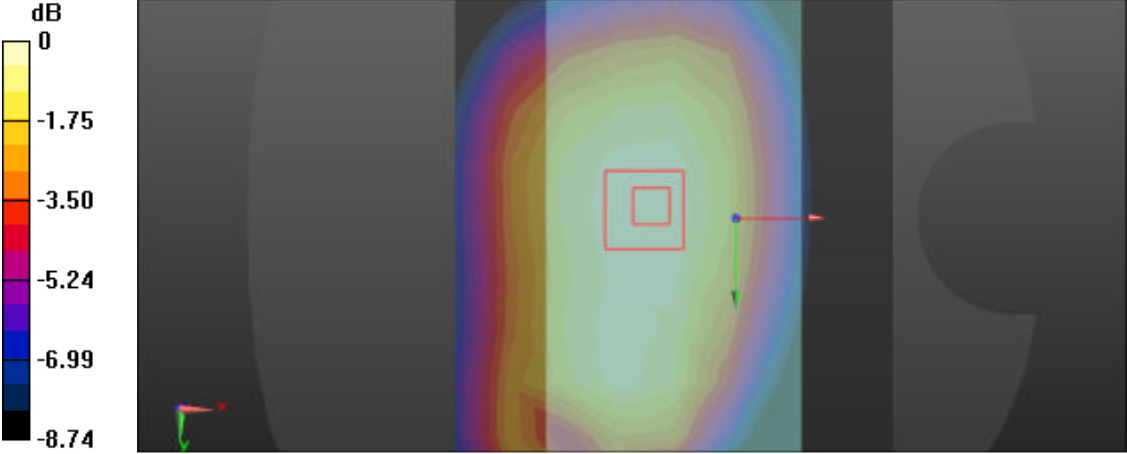
Right Side	Cheek
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz; Duty Cycle: 1:1.95434                      Medium parameters used (interpolated): <math>f = 836.6</math> MHz; <math>\sigma = 0.89</math> S/m; <math>\epsilon_r = 41.478</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>                      Phantom section: Right Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(9.05, 9.05, 9.05); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL wcdma band5 Right/wcdma band5 HSL touch M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm                      Maximum value of SAR (measured) = 0.142 W/kg</p> <p><b>Head-Section HSL wcdma band5 Right/wcdma band5 HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm                      Reference Value = 3.727 V/m; Power Drift = -0.07 dB                      Peak SAR (extrapolated) = 0.176 W/kg  <b>SAR(1 g) = 0.141 W/kg; SAR(10 g) = 0.111 W/kg</b>                      Maximum value of SAR (measured) = 0.148 W/kg</p>	
 <p>0 dB = 0.148 W/kg = -8.30 dBW/kg</p>	

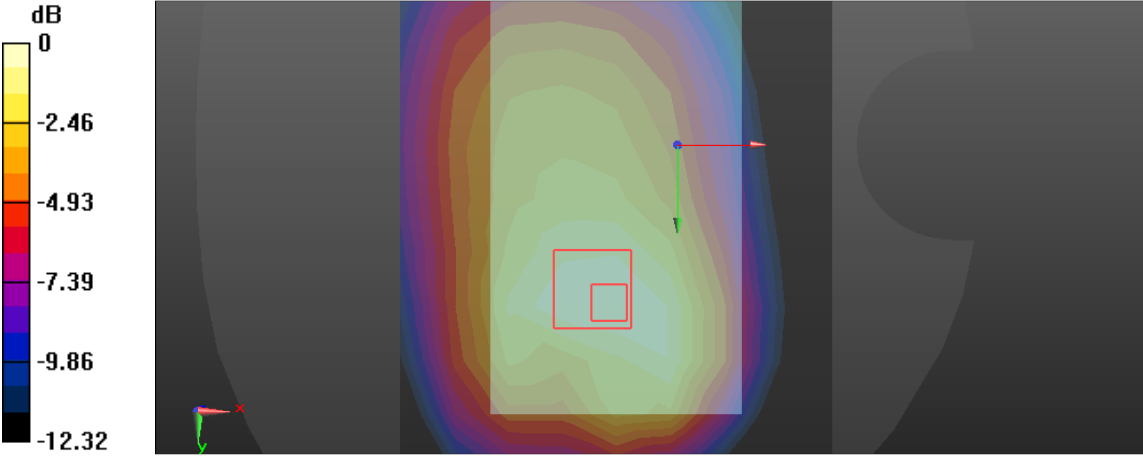
Right Side	Tilt
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz; Duty Cycle: 1:1.95434            Medium parameters used (interpolated): <math>f = 836.6</math> MHz; <math>\sigma = 0.89</math> S/m; <math>\epsilon_r = 41.478</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Right Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(9.05, 9.05, 9.05); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL wcdma band5 Right/wcdma band5 HSL tilt/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.0989 W/kg</p> <p><b>Head-Section HSL wcdma band5 Right/wcdma band5 HSL tilt/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 6.516 V/m; Power Drift = 0.04 dB            Peak SAR (extrapolated) = 0.120 W/kg  <b>SAR(1 g) = 0.098 W/kg; SAR(10 g) = 0.078 W/kg</b>            Maximum value of SAR (measured) = 0.102 W/kg</p>	
 <p>0 dB = 0.102 W/kg = -9.91 dBW/kg</p>	

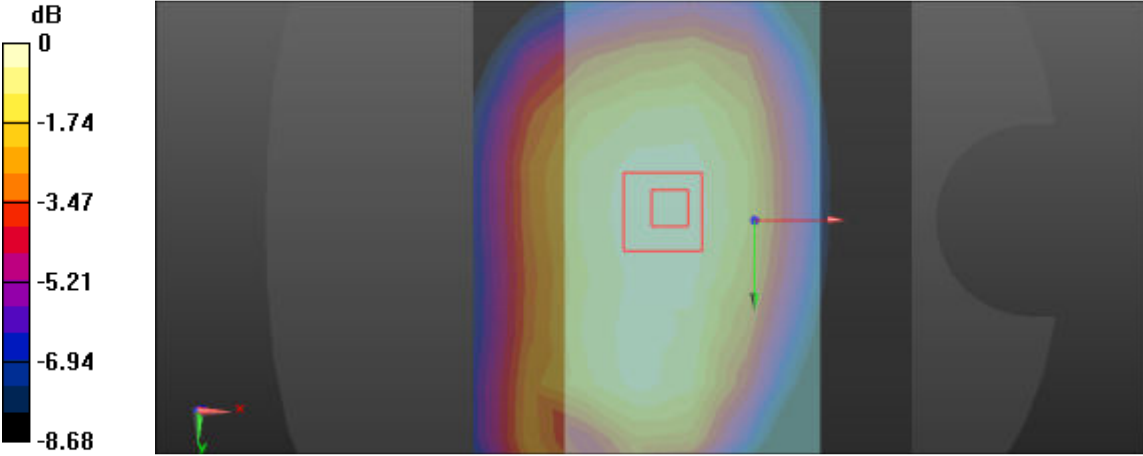
FLAT(VIOCE)	Towards phantom
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz; Duty Cycle: 1:1.95434            Medium parameters used (interpolated): <math>f = 836.6</math> MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.858</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band5 TG&amp;TP/wcdma band5 TP voice M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.280 W/kg</p> <p><b>Flat-Section MSL wcdma band5 TG&amp;TP/wcdma band5 TP voice M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 15.18 V/m; Power Drift = 0.06 dB            Peak SAR (extrapolated) = 0.377 W/kg  <b>SAR(1 g) = 0.280 W/kg; SAR(10 g) = 0.205 W/kg</b>            Maximum value of SAR (measured) = 0.298 W/kg</p> <div data-bbox="215 1205 1369 1657"> </div> <p>0 dB = 0.298 W/kg = -5.26 dBW/kg</p>	

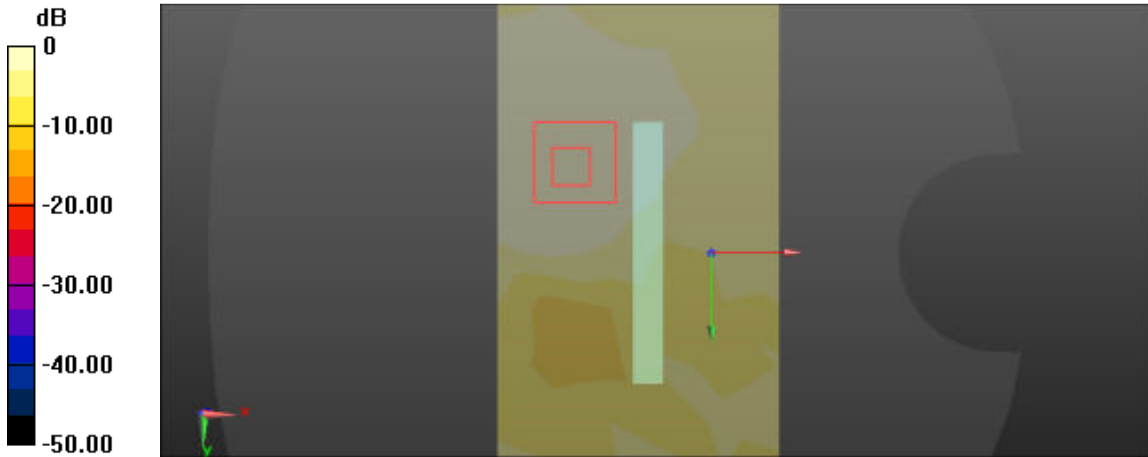
FLAT(VIOCE )	Towards ground
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz; Duty Cycle: 1:1.95434            Medium parameters used (interpolated): f = 836.6 MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.858</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band5 TG&amp;TP/wcdma band5 TG voice M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.346 W/kg</p> <p><b>Flat-Section MSL wcdma band5 TG&amp;TP/wcdma band5 TG voice M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 19.03 V/m; Power Drift = -0.04 dB            Peak SAR (extrapolated) = 0.437 W/kg  <b>SAR(1 g) = 0.336 W/kg; SAR(10 g) = 0.253 W/kg</b>            Maximum value of SAR (measured) = 0.352 W/kg</p>	
 <p>0 dB = 0.352 W/kg = -4.53 dBW/kg</p>	

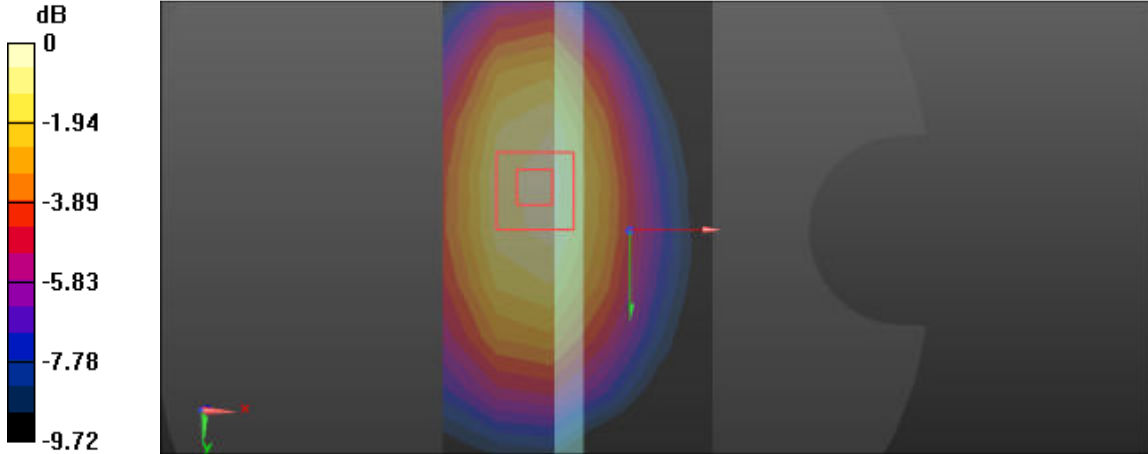


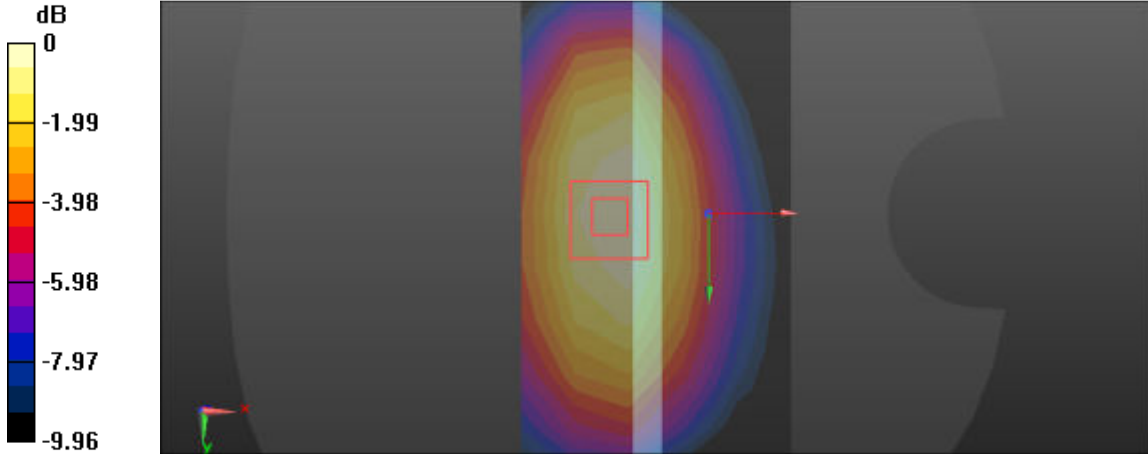
FLAT(VIOCE )	Towards ground
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz; Duty Cycle: 1:1.95434            Medium parameters used (interpolated): f = 836.6 MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.858</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band5 TG&amp;TP/wcdma band5 TG voice M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.237 W/kg</p> <p><b>Flat-Section MSL wcdma band5 TG&amp;TP/wcdma band5 TG voice M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 18.13 V/m; Power Drift = -0.12 dB            Peak SAR (extrapolated) = 0.347 W/kg  <b>SAR(1 g) = 0.249 W/kg; SAR(10 g) = 0.201 W/kg</b>            Maximum value of SAR (measured) = 0.234 W/kg</p>	
 <p>0 dB = 0.351 W/kg = -4.55 dBW/kg</p>	

FLAT(DATA)	Towards phantom
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz; Duty Cycle: 1:1.95434            Medium parameters used (interpolated): <math>f = 836.6</math> MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.858</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band5 TG&amp;TP/wcdma band5 TP DATA M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.358 W/kg</p> <p><b>Flat-Section MSL wcdma band5 TG&amp;TP/wcdma band5 TP DATA M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 13.87 V/m; Power Drift = -0.07 dB            Peak SAR (extrapolated) = 0.498 W/kg  <b>SAR(1 g) = 0.330 W/kg; SAR(10 g) = 0.223 W/kg</b>            Maximum value of SAR (measured) = 0.351 W/kg</p>	
 <p>0 dB = 0.351 W/kg = -4.55 dBW/kg</p>	

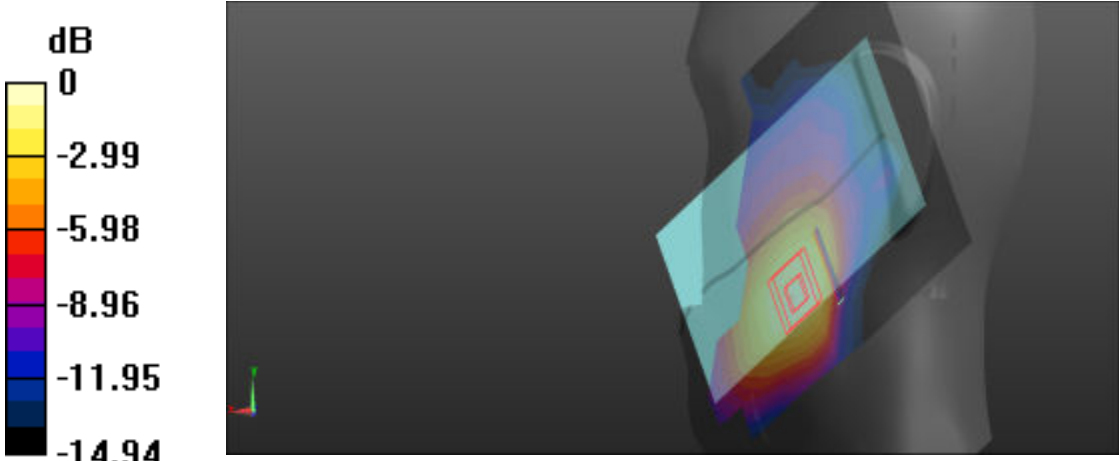
FLAT(DATA)	Towards ground
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz; Duty Cycle: 1:1.95434            Medium parameters used (interpolated): <math>f = 836.6</math> MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.858</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band5 TG&amp;TP/wcdma band5 TG DATA M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.343 W/kg</p> <p><b>Flat-Section MSL wcdma band5 TG&amp;TP/wcdma band5 TG DATA M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 18.96 V/m; Power Drift = 0.00 dB            Peak SAR (extrapolated) = 0.435 W/kg  <b>SAR(1 g) = 0.335 W/kg; SAR(10 g) = 0.252 W/kg</b>            Maximum value of SAR (measured) = 0.351 W/kg</p>	
 <p>0 dB = 0.351 W/kg = -4.55 dBW/kg</p>	

FLAT	EDGE2
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz; Duty Cycle: 1:1.95434            Medium parameters used (interpolated): <math>f = 836.6</math> MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.858</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 3mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band5 HOT/wcdma band5 10mm M edge 2/Area Scan (6x11x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.0137 W/kg</p> <p><b>Flat-Section MSL wcdma band5 HOT/wcdma band5 10mm M edge 2/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 2.266 V/m; Power Drift = 0.08 dB            Peak SAR (extrapolated) = 0.0230 W/kg  <b>SAR(1 g) = 0.011 W/kg; SAR(10 g) = 0.00633 W/kg</b>            Maximum value of SAR (measured) = 0.0141 W/kg</p>  <p>0 dB = 0.0141 W/kg = -18.51 dBW/kg</p>	

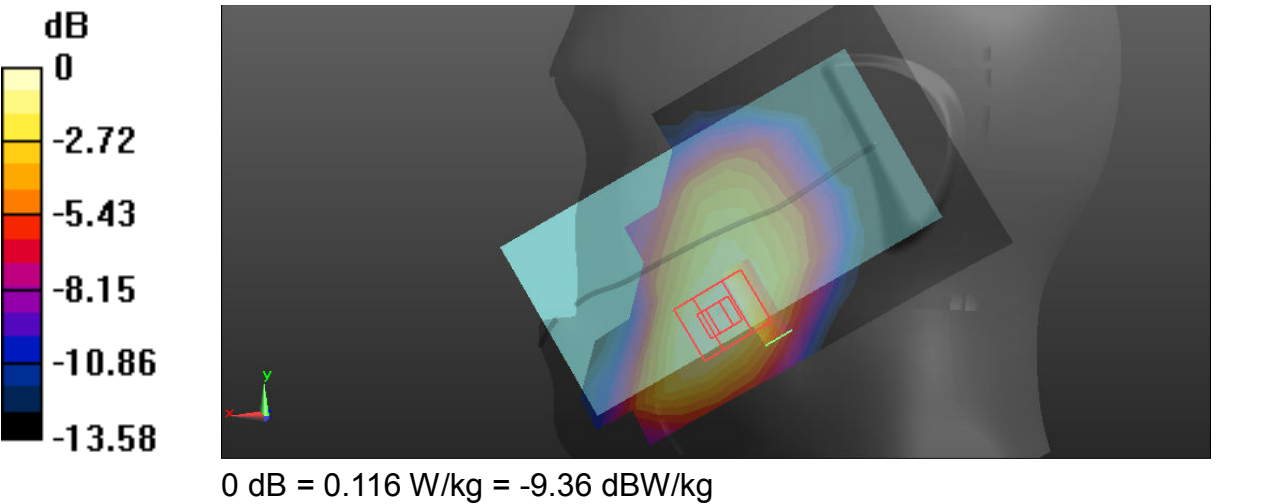
FLAT	EDGE3
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz; Duty Cycle: 1:1.95434            Medium parameters used (interpolated): <math>f = 836.6</math> MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.858</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 3mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band5 HOT/wcdma band5 10mm M edge 3/Area Scan (6x15x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.125 W/kg</p> <p><b>Flat-Section MSL wcdma band5 HOT/wcdma band5 10mm M edge 3/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 10.61 V/m; Power Drift = -0.00 dB            Peak SAR (extrapolated) = 0.163 W/kg  <b>SAR(1 g) = 0.114 W/kg; SAR(10 g) = 0.079 W/kg</b>            Maximum value of SAR (measured) = 0.131 W/kg</p>	
 <p>0 dB = 0.131 W/kg = -8.83 dBW/kg</p>	

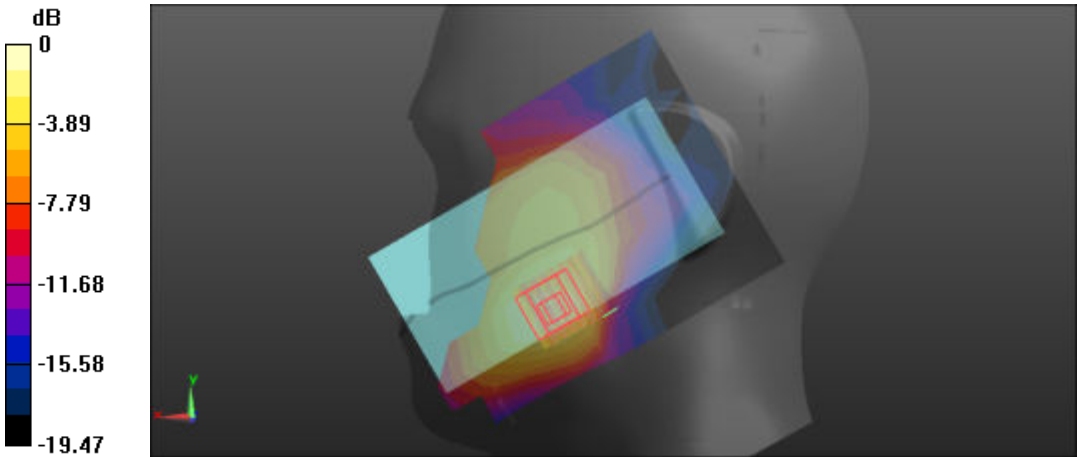
FLAT	EDGE4
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz; Duty Cycle: 1:1.95434            Medium parameters used (interpolated): <math>f = 836.6</math> MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.858</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 3mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band5 HOT/wcdma band5 10mm M edge 4/Area Scan (6x15x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.123 W/kg</p> <p><b>Flat-Section MSL wcdma band5 HOT/wcdma band5 10mm M edge 4/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 10.66 V/m; Power Drift = -0.17 dB            Peak SAR (extrapolated) = 0.154 W/kg  <b>SAR(1 g) = 0.107 W/kg; SAR(10 g) = 0.074 W/kg</b></p>	
 <p style="text-align: center;">0 dB = 0.123 W/kg = -9.10 dBW/kg</p>	

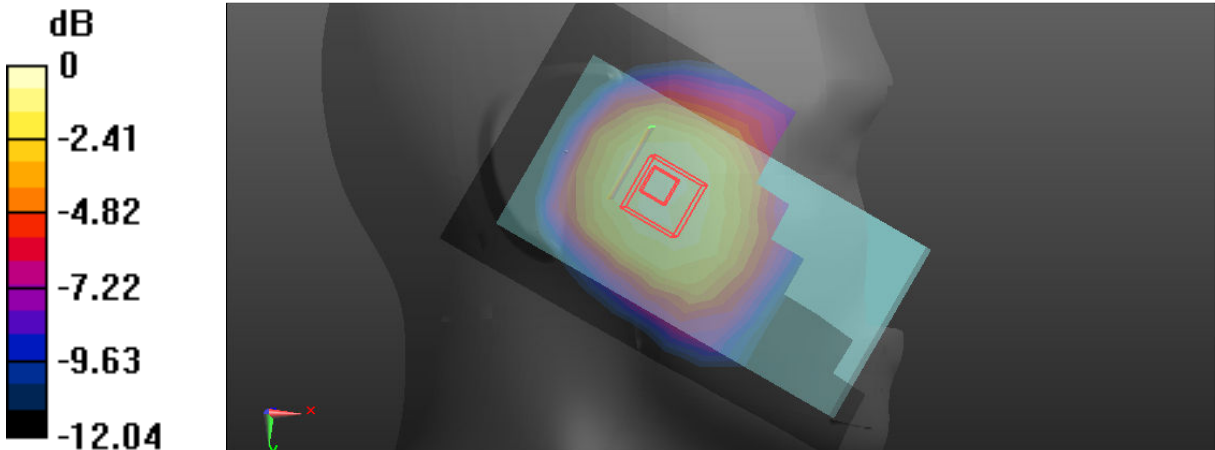
**LTE (Band 2 20BW-1RB-Low/Head)**

Left Side	Cheek
<p>Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1880 MHz; <math>\sigma = 1.45</math> S/m; <math>\epsilon_r = 39.74</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Left Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band2 Left/LTE band2 20MHz 1RB Low HSL touch M/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.441 W/kg</p> <p><b>Head-Section HSL LTE band2 Left/LTE band2 20MHz 1RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 4.549 V/m; Power Drift = -0.00 dB Peak SAR (extrapolated) = 0.745 W/kg <b>SAR(1 g) = 0.443 W/kg; SAR(10 g) = 0.261 W/kg</b> Maximum value of SAR (measured) = 0.484 W/kg</p>	
 <p>0 dB = 0.484 W/kg = -3.15 dBW/kg</p>	



Left Side	Tilt
<p>Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz; Duty Cycle: 1:1 Medium parameters used: <math>f = 1880 \text{ MHz}</math>; <math>\sigma = 1.45 \text{ S/m}</math>; <math>\epsilon_r = 39.74</math>; <math>\rho = 1000 \text{ kg/m}^3</math> Phantom section: Left Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band2 Left/LTE band2 20MHz 1RB Low HSL tilt M/Area Scan (9x13x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math> Maximum value of SAR (measured) = 0.115 W/kg</p>	
<p><b>Head-Section HSL LTE band2 Left/LTE band2 20MHz 1RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math> Reference Value = 8.223 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 0.163 W/kg <b>SAR(1 g) = 0.107 W/kg; SAR(10 g) = 0.067 W/kg</b> Maximum value of SAR (measured) = 0.116 W/kg</p>	
 <p>0 dB = 0.116 W/kg = -9.36 dBW/kg</p>	

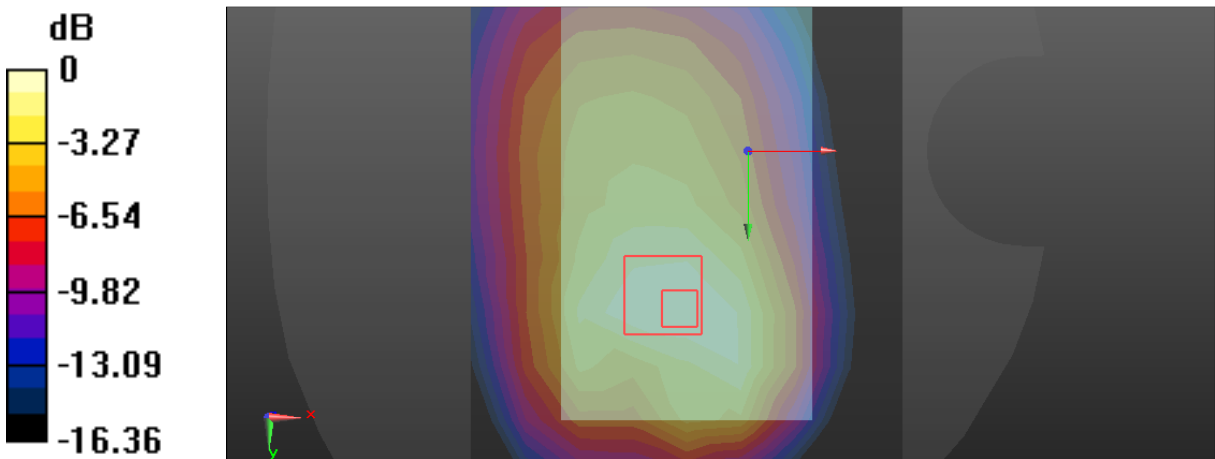
Right Side	Cheek
<p>Communication System: UID 0, LTE band 02 (0); Frequency: 1860 MHz; Duty Cycle: 1:1            Medium parameters used (interpolated): <math>f = 1860</math> MHz; <math>\sigma = 1.43</math> S/m; <math>\epsilon_r = 39.827</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Left Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul>	
<p><b>Head-Section HSL LTE band2 Left/LTE band2 20MHz 1RB Low HSL touch L/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.334 W/kg  <b>Head-Section HSL LTE band2 Left/LTE band2 20MHz 1RB Low HSL touch L/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 3.051 V/m; Power Drift = 0.07 dB            Peak SAR (extrapolated) = 0.549 W/kg  <b>SAR(1 g) = 0.327 W/kg; SAR(10 g) = 0.192 W/kg</b>            Maximum value of SAR (measured) = 0.355 W/kg</p>	
 <p>0 dB = 0.355 W/kg = -4.50 dBW/kg</p>	

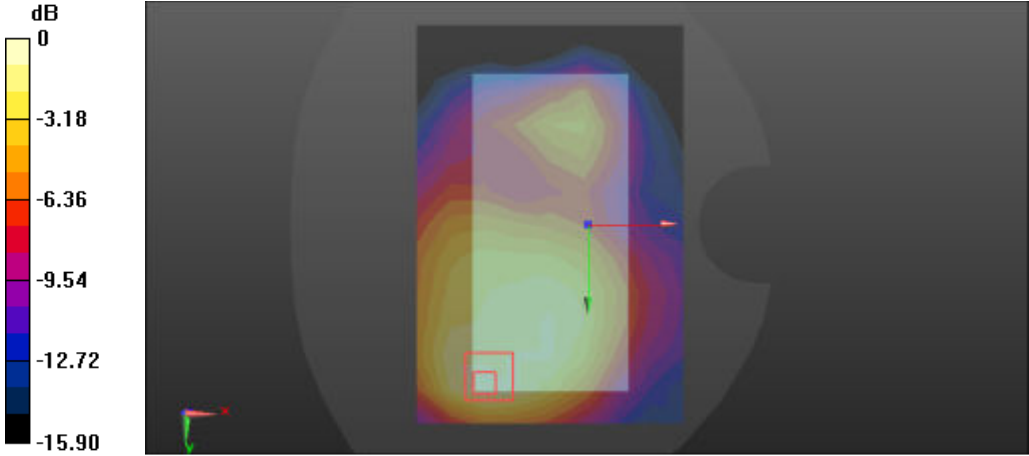
Right Side	Cheek
<p>Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: <math>f = 1880 \text{ MHz}</math>; <math>\sigma = 1.45 \text{ S/m}</math>; <math>\epsilon_r = 39.74</math>; <math>\rho = 1000 \text{ kg/m}^3</math> Phantom section: Right Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band2 Right/LTE band2 20MHz 1RB Low HSL touch M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.183 W/kg</p> <p><b>Head-Section HSL LTE band2 Right/LTE band2 20MHz 1RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 4.262 V/m; Power Drift = -0.05 dB Peak SAR (extrapolated) = 0.298 W/kg <b>SAR(1 g) = 0.189 W/kg; SAR(10 g) = 0.119 W/kg</b> Maximum value of SAR (measured) = 0.202 W/kg</p>	
 <p>0 dB = 0.202 W/kg = -6.95 dBW/kg</p>	

Right Side	Cheek
<p>Communication System: UID 0, LTE band 02 (0); Frequency: 1900 MHz; Duty Cycle: 1:1            Medium parameters used: <math>f = 1900 \text{ MHz}</math>; <math>\sigma = 1.45 \text{ S/m}</math>; <math>\epsilon_r = 39.75</math>; <math>\rho = 1000 \text{ kg/m}^3</math>            Phantom section: Left Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul>	
<p><b>Head-Section HSL LTE band2 Left/LTE band2 20MHz 1RB Low HSL touch H/Area Scan (9x13x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math>            Maximum value of SAR (measured) = 0.345 W/kg</p>	
<p><b>Head-Section HSL LTE band2 Left/LTE band2 20MHz 1RB Low HSL touch H/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math>            Reference Value = 3.754 V/m; Power Drift = 0.08 dB            Peak SAR (extrapolated) = 0.556 W/kg</p>	
<p><b>SAR(1 g) = 0.333 W/kg; SAR(10 g) = 0.196 W/kg</b>            Maximum value of SAR (measured) = 0.363 W/kg</p>	
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p>dB</p> <p>0 -3.86 -7.73 -11.59 -15.46 -19.32</p> </div> <div style="flex-grow: 1;"> </div> </div> <p style="text-align: center;">0 dB = 0.363 W/kg = -4.40 dBW/kg</p>	

Right Side	Tilt
<p>Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz; Duty Cycle: 1:1            Medium parameters used: <math>f = 1880 \text{ MHz}</math>; <math>\sigma = 1.45 \text{ S/m}</math>; <math>\epsilon_r = 39.74</math>; <math>\rho = 1000 \text{ kg/m}^3</math>            Phantom section: Right Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band2 Right/LTE band2 20MHz 1RB Low HSL tilt M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.0827 W/kg</p> <p><b>Head-Section HSL LTE band2 Right/LTE band2 20MHz 1RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 6.792 V/m; Power Drift = -0.08 dB            Peak SAR (extrapolated) = 0.117 W/kg  <b>SAR(1 g) = 0.075 W/kg; SAR(10 g) = 0.050 W/kg</b>            Maximum value of SAR (measured) = 0.0816 W/kg</p>	
<div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0 -2.58 -5.16 -7.74 -10.32 -12.90</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.0816 W/kg = -10.88 dBW/kg</p>	

**LTE (Band 2 20BW-1RB-Low/Flat)**

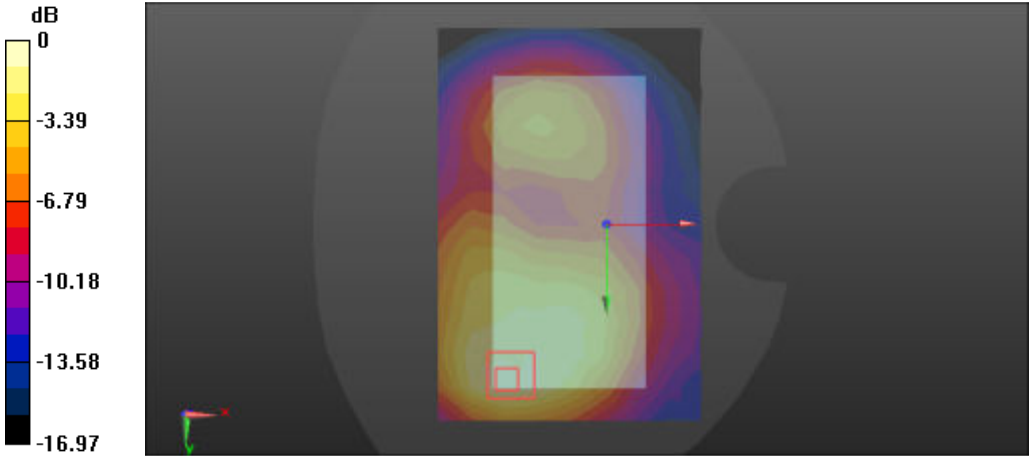
FLAT	Towards phantom
<p>Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1880 MHz; <math>\sigma = 1.57</math> S/m; <math>\epsilon_r = 51.14</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band2 TP/LTE band2 TP 20MHz 1RB M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.461 W/kg</p> <p><b>Flat-Section MSL LTE band2 TP/LTE band2 TP 20MHz 1RB M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 9.559 V/m; Power Drift = -0.03 dB Peak SAR (extrapolated) = 0.854 W/kg <b>SAR(1 g) = 0.472 W/kg; SAR(10 g) = 0.275 W/kg</b> Maximum value of SAR (measured) = 0.510 W/kg</p>	
 <p>0 dB = 0.510 W/kg = -2.92 dBW/kg</p>	

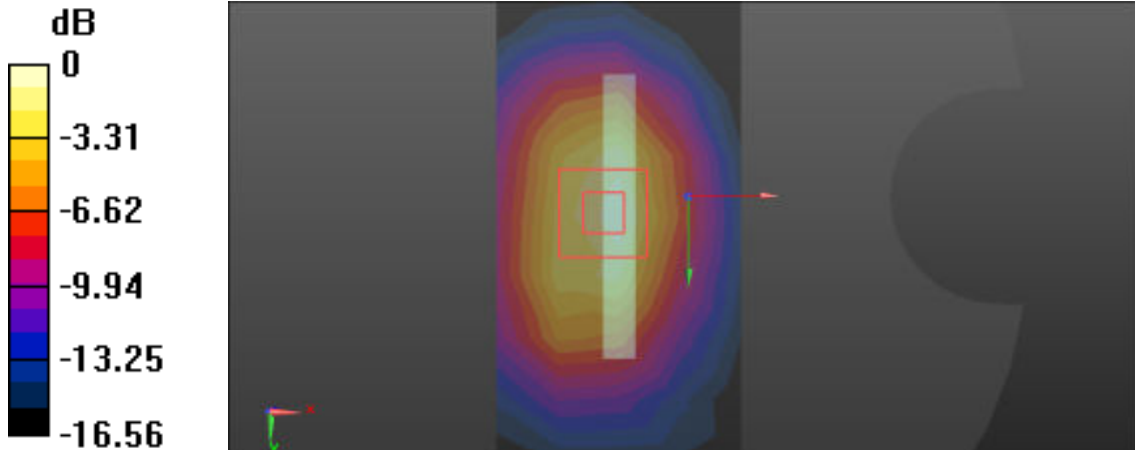
FLAT	Towards ground
<p>Communication System: UID 0, LTE band 02 (0); Frequency: 1860 MHz; Duty Cycle: 1:1 Medium parameters used (interpolated): <math>f = 1860</math> MHz; <math>\sigma = 1.543</math> S/m; <math>\epsilon_r = 51.207</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul>	
<p><b>Flat-Section MSL LTE band2 TG/LTE band2 TG 20MHz 1RB L 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.746 W/kg <b>Flat-Section MSL LTE band2 TG/LTE band2 TG 20MHz 1RB L 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 11.78 V/m; Power Drift = -0.02 dB Peak SAR (extrapolated) = 1.22 W/kg <b>SAR(1 g) = 0.708 W/kg; SAR(10 g) = 0.412 W/kg</b> Maximum value of SAR (measured) = 0.772 W/kg</p>	
 <p>0 dB = 0.772 W/kg = -1.12 dBW/kg</p>	

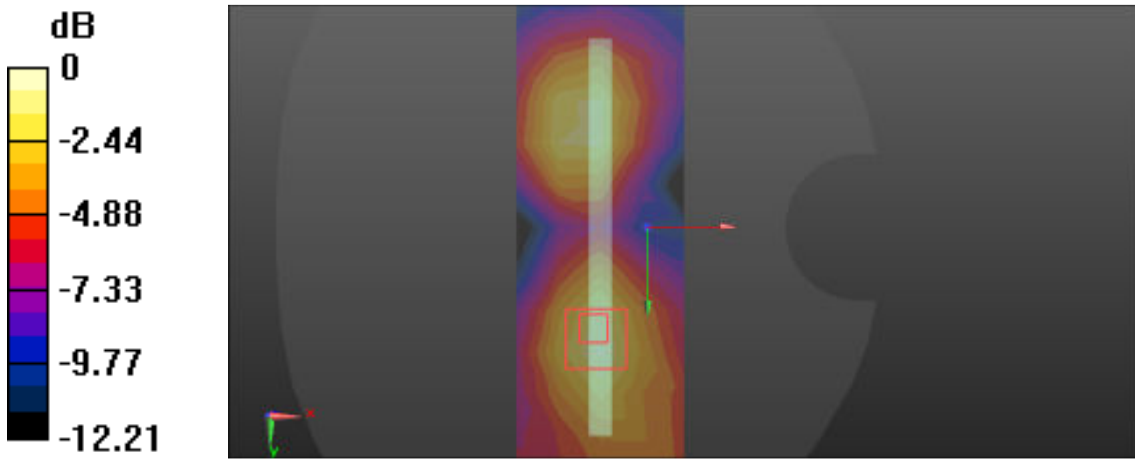


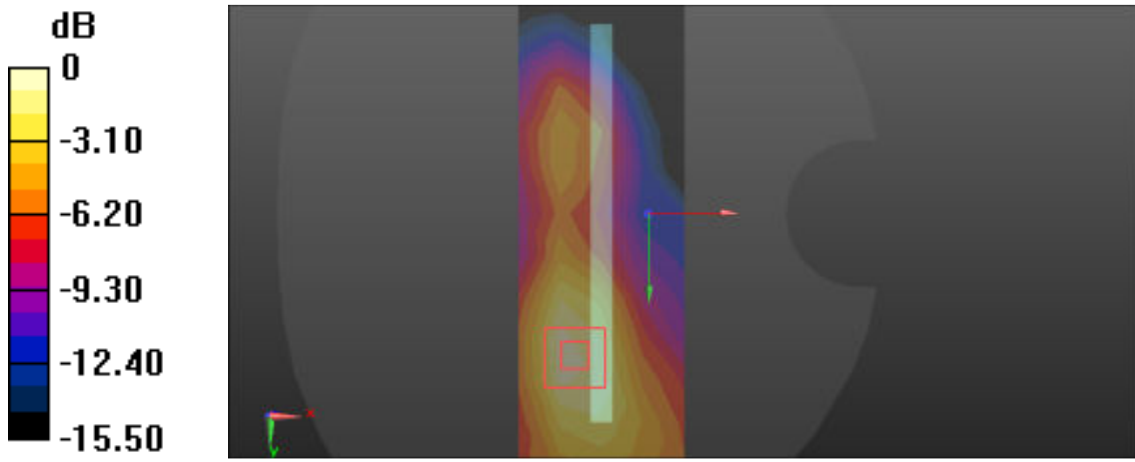
FLAT	Towards ground
Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: $f = 1880 \text{ MHz}$ ; $\sigma = 1.57 \text{ S/m}$ ; $\epsilon_r = 51.14$ ; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section	
DASY5 Configuration:	
<ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band2 TG/LTE band2 TG 20MHz 1RB M 10mm/Area Scan (9x13x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math>            Maximum value of SAR (measured) = 0.869 W/kg</p> <p><b>Flat-Section MSL LTE band2 TG/LTE band2 TG 20MHz 1RB M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math>            Reference Value = 6.879 V/m; Power Drift = 0.22 dB            Peak SAR (extrapolated) = 1.50 W/kg  <b>SAR(1 g) = 0.795 W/kg; SAR(10 g) = 0.434 W/kg</b>            Maximum value of SAR (measured) = 0.881 W/kg</p>	
<div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0 -3.53 -7.06 -10.60 -14.13 -17.66</p> </div> <div> </div> </div> <p>0 dB = 0.881 W/kg = -0.55 dBW/kg</p>	

FLAT	Towards ground
Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: $f = 1880 \text{ MHz}$ ; $\sigma = 1.57 \text{ S/m}$ ; $\epsilon_r = 51.14$ ; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section	
DASY5 Configuration:	
<ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band2 TG/LTE band2 TG 20MHz 1RB M 10mm/Area Scan (9x13x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math>            Maximum value of SAR (measured) = 0.763 W/kg</p> <p><b>Flat-Section MSL LTE band2 TG/LTE band2 TG 20MHz 1RB M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math>            Reference Value = 6.243 V/m; Power Drift = 0.11 dB            Peak SAR (extrapolated) = 1.50 W/kg  <b>SAR(1 g) = 0.678 W/kg; SAR(10 g) = 0.201 W/kg</b>            Maximum value of SAR (measured) = 0.782 W/kg</p>	
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0 -3.53 -7.06 -10.60 -14.13 -17.66</p> </div> <div> <p>0 dB = 0.415 W/kg = -3.82 dBW/kg</p> </div> </div>	

FLAT	Towards ground
<p>Communication System: UID 0, LTE band 02 (0); Frequency: 1900 MHz;Duty Cycle: 1:1 Medium parameters used: <math>f = 1900 \text{ MHz}</math>; <math>\sigma = 1.57 \text{ S/m}</math>; <math>\epsilon_r = 51.05</math>; <math>\rho = 1000 \text{ kg/m}^3</math> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul>	
<p><b>Flat-Section MSL LTE band2 TG/LTE band2 TG 20MHz 1RB H 10mm/Area Scan (9x13x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math> Maximum value of SAR (measured) = 0.807 W/kg <b>Flat-Section MSL LTE band2 TG/LTE band2 TG 20MHz 1RB H 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math> Reference Value = 9.316 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 1.33 W/kg <b>SAR(1 g) = 0.777 W/kg; SAR(10 g) = 0.450 W/kg</b> Maximum value of SAR (measured) = 0.854 W/kg</p>	
 <p>0 dB = 0.854 W/kg = -0.69 dBW/kg</p>	

FLAT	EDGE2
<p>Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: <math>f = 1880 \text{ MHz}</math>; <math>\sigma = 1.57 \text{ S/m}</math>; <math>\epsilon_r = 51.14</math>; <math>\rho = 1000 \text{ kg/m}^3</math> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band2 HOT/LTE band2 20MHz 1RB 10mm M edge 2/Area Scan (6x11x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math> Maximum value of SAR (measured) = 0.365 W/kg</p> <p><b>Flat-Section MSL LTE band2 HOT/LTE band2 20MHz 1RB 10mm M edge 2/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math> Reference Value = 12.53 V/m; Power Drift = 0.13 dB Peak SAR (extrapolated) = 0.665 W/kg <b>SAR(1 g) = 0.378 W/kg; SAR(10 g) = 0.213 W/kg</b> Maximum value of SAR (measured) = 0.415 W/kg</p>	
 <p>0 dB = 0.415 W/kg = -3.82 dBW/kg</p>	

FLAT	EDGE3
<p>Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1880 MHz; <math>\sigma = 1.57</math> S/m; <math>\epsilon_r = 51.14</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band2 HOT/LTE band2 20MHz 1RB 10mmM edge 3/Area Scan (6x15x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.0436 W/kg</p> <p><b>Flat-Section MSL LTE band2 HOT/LTE band2 20MHz 1RB 10mmM edge 3/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 2.837 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 0.0710 W/kg <b>SAR(1 g) = 0.043 W/kg; SAR(10 g) = 0.028 W/kg</b> Maximum value of SAR (measured) = 0.0457 W/kg</p>	
 <p>0 dB = 0.0457 W/kg = -13.40 dBW/kg</p>	

FLAT	EDGE4
<p>Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1880 MHz; <math>\sigma = 1.57</math> S/m; <math>\epsilon_r = 51.14</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band2 HOT/LTE band2 20MHz 1RB 10mmM edge 4/Area Scan (6x15x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.322 W/kg</p> <p><b>Flat-Section MSL LTE band2 HOT/LTE band2 20MHz 1RB 10mmM edge 4/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 10.50 V/m; Power Drift = 0.06 dB Peak SAR (extrapolated) = 0.511 W/kg <b>SAR(1 g) = 0.301 W/kg; SAR(10 g) = 0.177 W/kg</b> Maximum value of SAR (measured) = 0.327 W/kg</p>	
 <p>0 dB = 0.327 W/kg = -4.85 dBW/kg</p>	

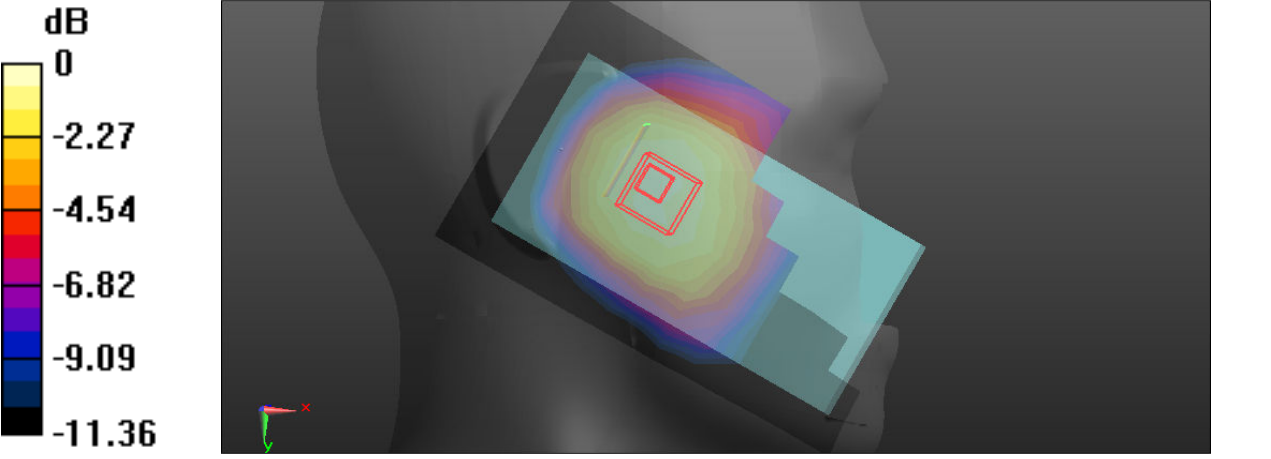
**LTE (Band 2 20BW-50RB-Low/Head)**

Left Side	Cheek
Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: $f = 1880 \text{ MHz}$ ; $\sigma = 1.45 \text{ S/m}$ ; $\epsilon_r = 39.74$ ; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Left Section	
DASY5 Configuration:	
<ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band2 Left/LTE band2 20MHz 50RB Low HSL touch M/Area Scan (9x13x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math>            Maximum value of SAR (measured) = 0.386 W/kg</p> <p><b>Head-Section HSL LTE band2 Left/LTE band2 20MHz 50RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math>            Reference Value = 3.705 V/m; Power Drift = 0.09 dB            Peak SAR (extrapolated) = 0.670 W/kg  <b>SAR(1 g) = 0.397 W/kg; SAR(10 g) = 0.233 W/kg</b>            Maximum value of SAR (measured) = 0.435 W/kg</p>	
<p>0 dB = 0.435 W/kg = -3.62 dBW/kg</p>	

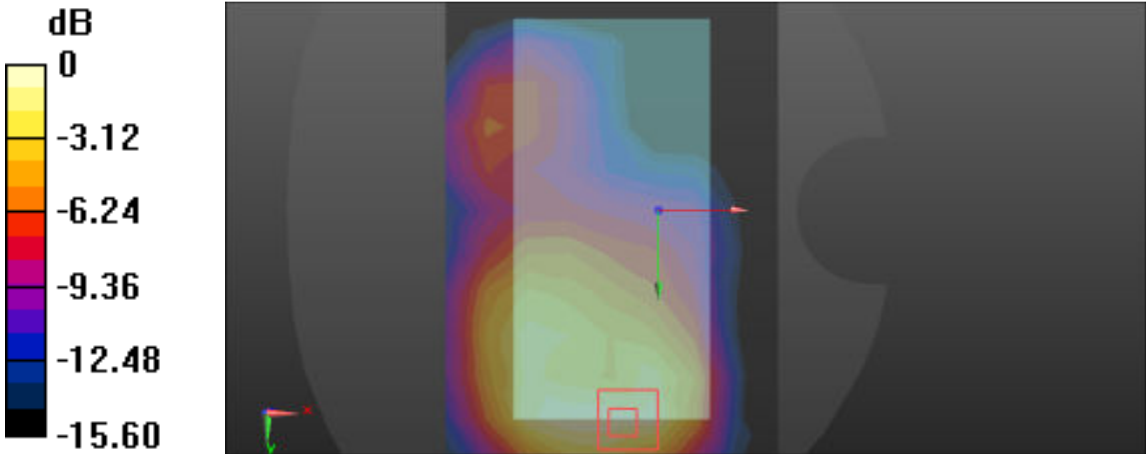


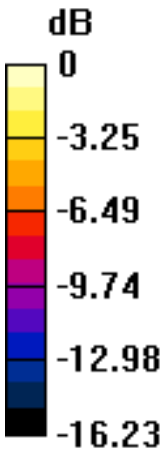
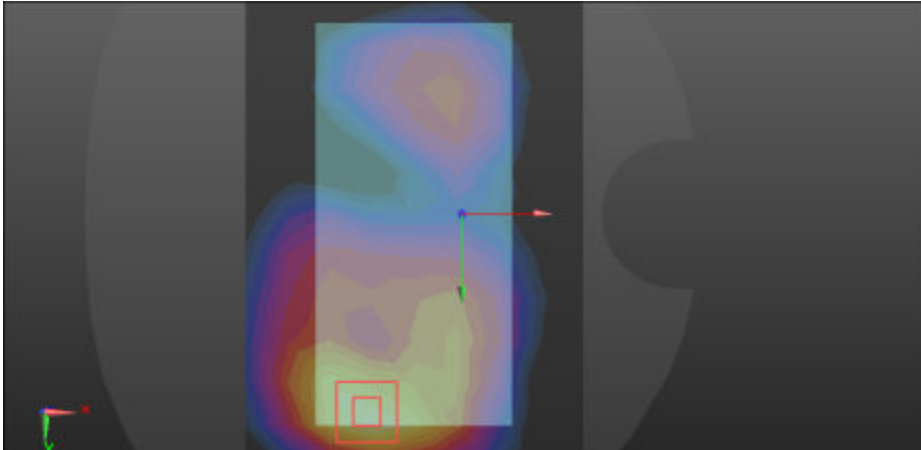
Left Side	Tilt
<p>Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz; Duty Cycle: 1:1            Medium parameters used: <math>f = 1880 \text{ MHz}</math>; <math>\sigma = 1.45 \text{ S/m}</math>; <math>\epsilon_r = 39.74</math>; <math>\rho = 1000 \text{ kg/m}^3</math>            Phantom section: Left Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band2 Left/LTE band2 20MHz 50RB Low HSL tilt M/Area Scan (9x13x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math>            Maximum value of SAR (measured) = 0.0977 W/kg</p> <p><b>Head-Section HSL LTE band2 Left/LTE band2 20MHz 50RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math>            Reference Value = 7.476 V/m; Power Drift = 0.00 dB            Peak SAR (extrapolated) = 0.176 W/kg  <b>SAR(1 g) = 0.096 W/kg; SAR(10 g) = 0.058 W/kg</b>            Maximum value of SAR (measured) = 0.114 W/kg</p>	
<div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0 -2.58 -5.15 -7.73 -10.30 -12.88</p> </div> <div> </div> </div> <p>0 dB = 0.114 W/kg = -9.43 dBW/kg</p>	

Right Side	Cheek
<p>Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: <math>f = 1880 \text{ MHz}</math>; <math>\sigma = 1.45 \text{ S/m}</math>; <math>\epsilon_r = 39.74</math>; <math>\rho = 1000 \text{ kg/m}^3</math> Phantom section: Right Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band2 Right/LTE band2 20MHz 50RB Low HSL touch M/Area Scan (8x13x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math> Maximum value of SAR (measured) = 0.147 W/kg</p> <p><b>Head-Section HSL LTE band2 Right/LTE band2 20MHz 50RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math> Reference Value = 3.878 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 0.221 W/kg <b>SAR(1 g) = 0.147 W/kg; SAR(10 g) = 0.094 W/kg</b> Maximum value of SAR (measured) = 0.158 W/kg</p>	
<div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0 -2.23 -4.47 -6.70 -8.94 -11.17</p> </div> <div> <p>0 dB = 0.158 W/kg = -8.01 dBW/kg</p> </div> </div>	

Right Side	Tilt
<p>Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz; Duty Cycle: 1:1            Medium parameters used: <math>f = 1880 \text{ MHz}</math>; <math>\sigma = 1.45 \text{ S/m}</math>; <math>\epsilon_r = 39.74</math>; <math>\rho = 1000 \text{ kg/m}^3</math>            Phantom section: Right Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band2 Right/LTE band2 20MHz 50RB Low HSL tilt M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.0714 W/kg</p> <p><b>Head-Section HSL LTE band2 Right/LTE band2 20MHz 50RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 6.151 V/m; Power Drift = -0.15 dB            Peak SAR (extrapolated) = 0.109 W/kg  <b>SAR(1 g) = 0.067 W/kg; SAR(10 g) = 0.042 W/kg</b>            Maximum value of SAR (measured) = 0.0722 W/kg</p>	
 <p>0 dB = 0.0722 W/kg = -11.41 dBW/kg</p>	

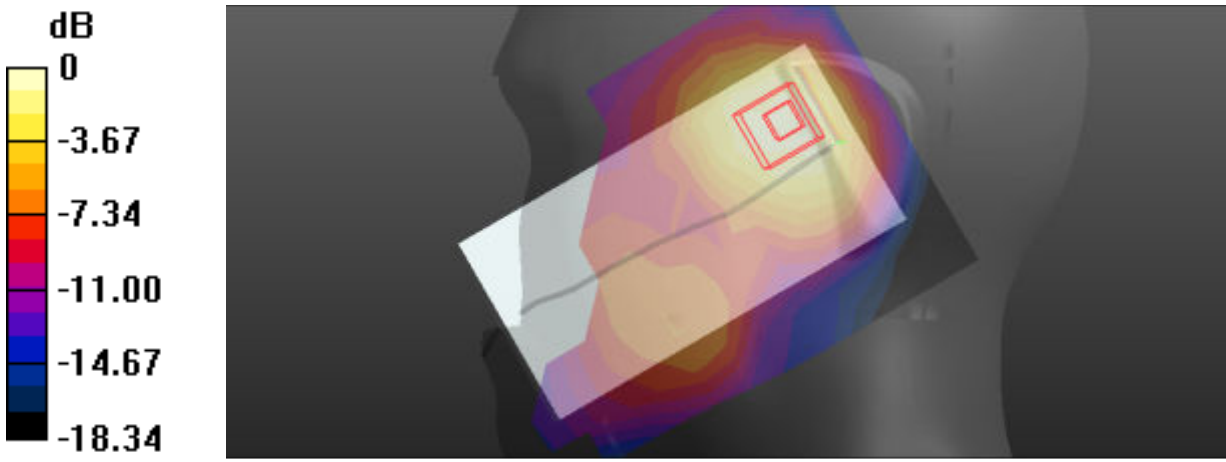
**LTE (Band 2 20BW-50RB-Low/Flat)**

FLAT	Towards phantom
Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: $f = 1880 \text{ MHz}$ ; $\sigma = 1.57 \text{ S/m}$ ; $\epsilon_r = 51.14$ ; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section	
DASY5 Configuration: <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <b>Flat-Section MSL LTE band2 TP/LTE band2 TP 20MHz 50RB M 10mm/Area Scan (9x13x1):</b> Measurement grid: $dx=15\text{mm}$ , $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.371 W/kg <b>Flat-Section MSL LTE band2 TP/LTE band2 TP 20MHz 50RB M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: $dx=5\text{mm}$ , $dy=5\text{mm}$ , $dz=5\text{mm}$ Reference Value = 8.207 V/m; Power Drift = 0.07 dB Peak SAR (extrapolated) = 0.701 W/kg <b>SAR(1 g) = 0.382 W/kg; SAR(10 g) = 0.224 W/kg</b> Maximum value of SAR (measured) = 0.413 W/kg	
 <p>0 dB = 0.413 W/kg = -3.84 dBW/kg</p>	

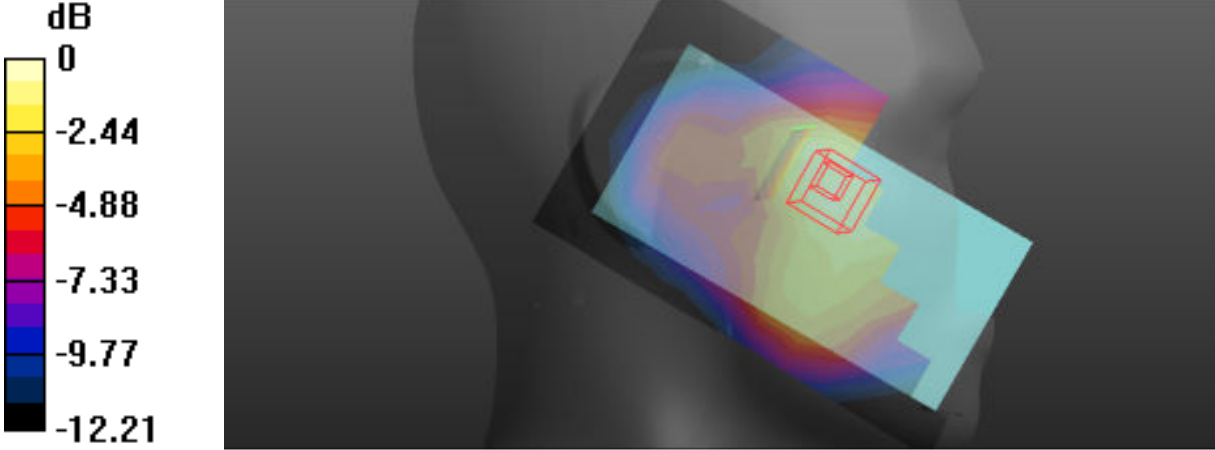
FLAT	Towards ground
<p>Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1880 MHz; <math>\sigma = 1.57</math> S/m; <math>\epsilon_r = 51.14</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band2 TG/LTE band2 TG 20MHz 50RB M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.706 W/kg</p> <p><b>Flat-Section MSL LTE band2 TG/LTE band2 TG 20MHz 50RB M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 6.182 V/m; Power Drift = -0.13 dB Peak SAR (extrapolated) = 1.22 W/kg <b>SAR(1 g) = 0.646 W/kg; SAR(10 g) = 0.352 W/kg</b> Maximum value of SAR (measured) = 0.712 W/kg</p>	
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p>  <p>0 -3.25 -6.49 -9.74 -12.98 -16.23</p> </div> <div style="flex-grow: 1;">  </div> </div> <p style="text-align: center;">0 dB = 0.712 W/kg = -1.48 dBW/kg</p>	

**LTE (Band 4 20BW-1RB-Low/Head)**

Left Side	Cheek
<p>Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): <math>f = 1732.5</math> MHz; <math>\sigma = 1.304</math> S/m; <math>\epsilon_r = 40.408</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Left Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul>	
<p><b>Head-Section HSL LTE band4 Left/LTE band4 20MHz 1RB Low HSL touch M/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.320 W/kg <b>Head-Section HSL LTE band4 Left/LTE band4 20MHz 1RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 5.913 V/m; Power Drift = -0.08 dB Peak SAR (extrapolated) = 0.546 W/kg <b>SAR(1 g) = 0.343 W/kg; SAR(10 g) = 0.212 W/kg</b> Maximum value of SAR (measured) = 0.375 W/kg</p>	
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0 -3.40 -6.80 -10.19 -13.59 -16.99</p> </div> <div style="flex-grow: 1;"> <p>0 dB = 0.375 W/kg = -4.26 dBW/kg</p> </div> </div>	

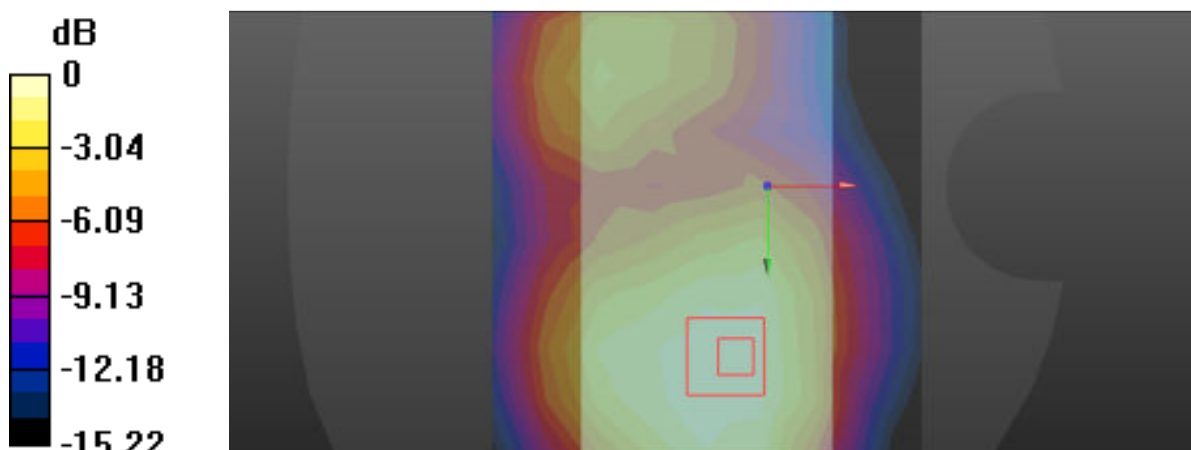
Left Side	Tilt
<p>Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): <math>f = 1732.5</math> MHz; <math>\sigma = 1.304</math> S/m; <math>\epsilon_r = 40.408</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Left Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band4 Left/LTE band4 20MHz 1RB Low HSL tilt M/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.181 W/kg</p> <p><b>Head-Section HSL LTE band4 Left/LTE band4 20MHz 1RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 10.29 V/m; Power Drift = -0.11 dB Peak SAR (extrapolated) = 0.273 W/kg <b>SAR(1 g) = 0.169 W/kg; SAR(10 g) = 0.105 W/kg</b> Maximum value of SAR (measured) = 0.186 W/kg</p>	
 <p>0 dB = 0.186 W/kg = -7.30 dBW/kg</p>	

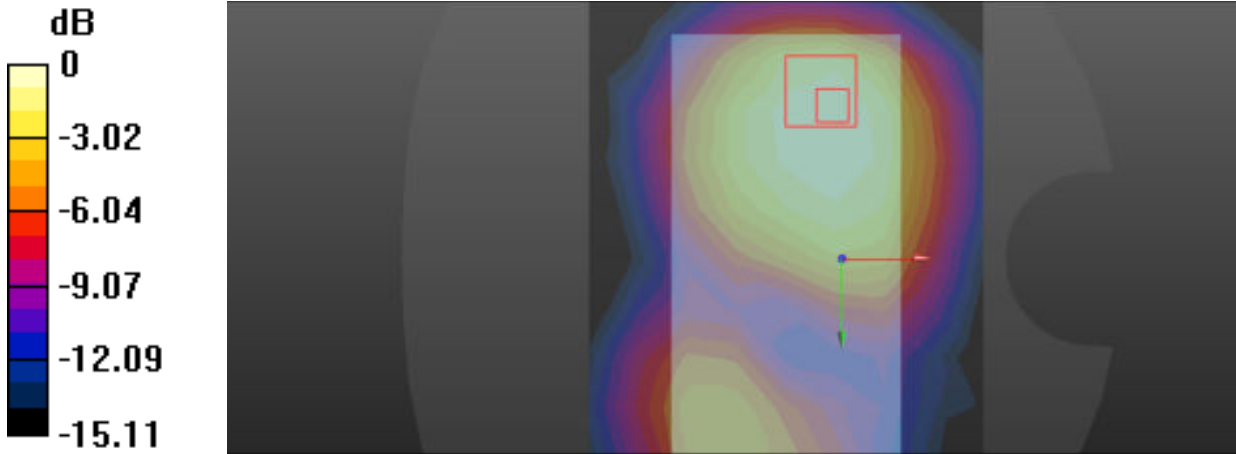


Right Side	Cheek
<p>Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): <math>f = 1732.5</math> MHz; <math>\sigma = 1.304</math> S/m; <math>\epsilon_r = 40.408</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Right Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band4 Right/LTE band4 20MHz 1RB Low HSL touch M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.162 W/kg</p> <p><b>Head-Section HSL LTE band4 Right/LTE band4 20MHz 1RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 6.115 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 0.266 W/kg <b>SAR(1 g) = 0.170 W/kg; SAR(10 g) = 0.108 W/kg</b> Maximum value of SAR (measured) = 0.187 W/kg</p>	
 <p>0 dB = 0.187 W/kg = -7.28 dBW/kg</p>	

Right Side	Tilt
<p>Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): <math>f = 1732.5</math> MHz; <math>\sigma = 1.304</math> S/m; <math>\epsilon_r = 40.408</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Right Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul>	
<p><b>Head-Section HSL LTE band4 Right/LTE band4 20MHz 1RB Low HSL tilt M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.146 W/kg <b>Head-Section HSL LTE band4 Right/LTE band4 20MHz 1RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 9.733 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 0.217 W/kg <b>SAR(1 g) = 0.138 W/kg; SAR(10 g) = 0.085 W/kg</b> Maximum value of SAR (measured) = 0.149 W/kg</p>	
<div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0 -2.87 -5.74 -8.61 -11.48 -14.35</p> </div> <div> <p>0 dB = 0.149 W/kg = -8.27 dBW/kg</p> </div> </div>	

**LTE (Band 4 20BW-1RB-Low/Flat)**

FLAT	Towards phantom
<p>Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz; Duty Cycle: 1:1            Medium parameters used (interpolated): <math>f = 1732.5</math> MHz; <math>\sigma = 1.404</math> S/m; <math>\epsilon_r = 51.622</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.9, 4.9, 4.9); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul>	
<p><b>Flat-Section MSL LTE band4 TP/LTE band4 TP 20MHz 1RB M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.341 W/kg  <b>Flat-Section MSL LTE band4 TP/LTE band4 TP 20MHz 1RB M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 7.577 V/m; Power Drift = 0.06 dB            Peak SAR (extrapolated) = 0.537 W/kg  <b>SAR(1 g) = 0.340 W/kg; SAR(10 g) = 0.221 W/kg</b>            Maximum value of SAR (measured) = 0.367 W/kg</p>	
 <p>0 dB = 0.367 W/kg = -4.35 dBW/kg</p>	

FLAT	Towards ground
<p>Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 1732.5 MHz; <math>\sigma = 1.404</math> S/m; <math>\epsilon_r = 51.622</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.9, 4.9, 4.9); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul>	
<p><b>Flat-Section MSL LTE band4 TG/LTE band4 TG 20MHz 1RB M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.211 W/kg <b>Flat-Section MSL LTE band4 TG/LTE band4 TG 20MHz 1RB M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 7.712 V/m; Power Drift = -0.03 dB Peak SAR (extrapolated) = 0.317 W/kg <b>SAR(1 g) = 0.200 W/kg; SAR(10 g) = 0.124 W/kg</b> Maximum value of SAR (measured) = 0.219 W/kg</p>	
 <p>0 dB = 0.219 W/kg = -6.60 dBW/kg</p>	

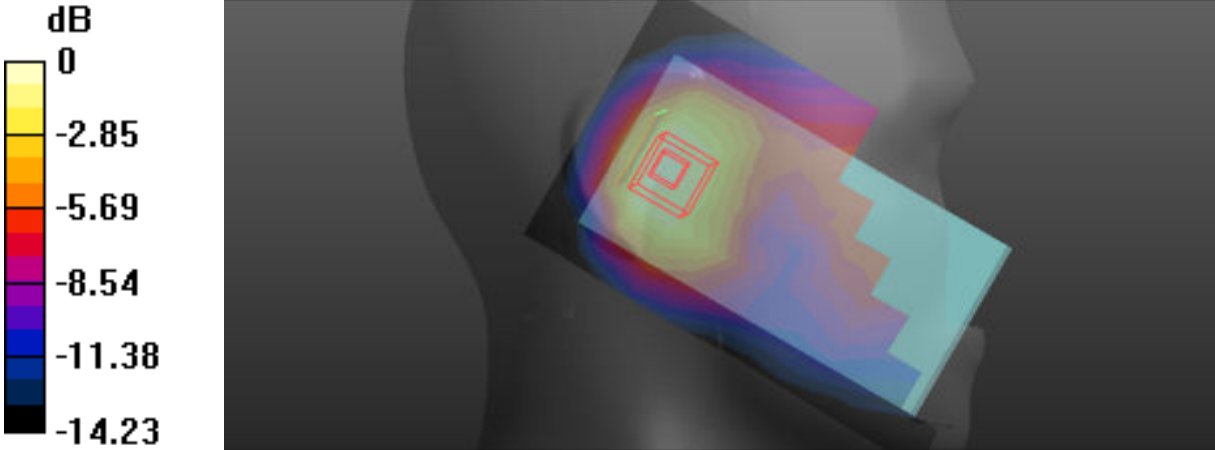
**LTE (Band 4 20BW-50RB-Low/Head)**

Left Side	Cheek
<p>Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 1732.5 MHz; <math>\sigma = 1.304</math> S/m; <math>\epsilon_r = 40.408</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Left Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band4 Left/LTE band4 20MHz 50RB Low HSL touch M/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.267 W/kg</p> <p><b>Head-Section HSL LTE band4 Left/LTE band4 20MHz 50RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 5.292 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 0.447 W/kg <b>SAR(1 g) = 0.280 W/kg; SAR(10 g) = 0.172 W/kg</b> Maximum value of SAR (measured) = 0.305 W/kg</p> <div data-bbox="178 1234 344 1682"> <p><b>dB</b></p> <p>0 -3.41 -6.82 -10.23 -13.64 -17.05</p> </div> <div data-bbox="403 1234 1406 1686"> </div> <p>0 dB = 0.305 W/kg = -5.16 dBW/kg</p>	

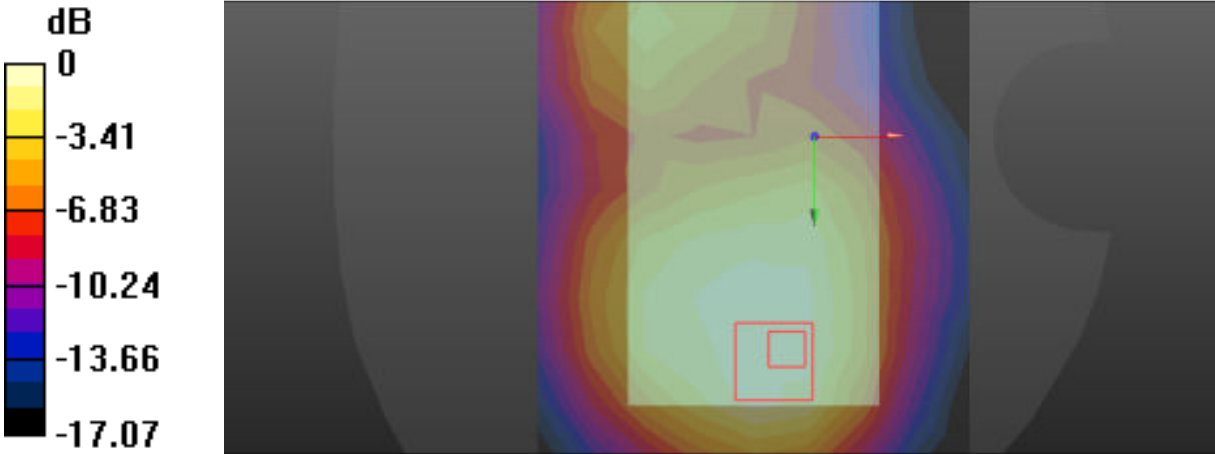
Left Side	Tilt
<p>Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz; Duty Cycle: 1:1 Medium parameters used (interpolated): <math>f = 1732.5</math> MHz; <math>\sigma = 1.304</math> S/m; <math>\epsilon_r = 40.408</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Left Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band4 Left/LTE band4 20MHz 50RB Low HSL tilt M/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.142 W/kg</p> <p><b>Head-Section HSL LTE band4 Left/LTE band4 20MHz 50RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 8.784 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 0.204 W/kg <b>SAR(1 g) = 0.136 W/kg; SAR(10 g) = 0.085 W/kg</b> Maximum value of SAR (measured) = 0.147 W/kg</p>	
<p>0 dB = 0.147 W/kg = -8.33 dBW/kg</p>	

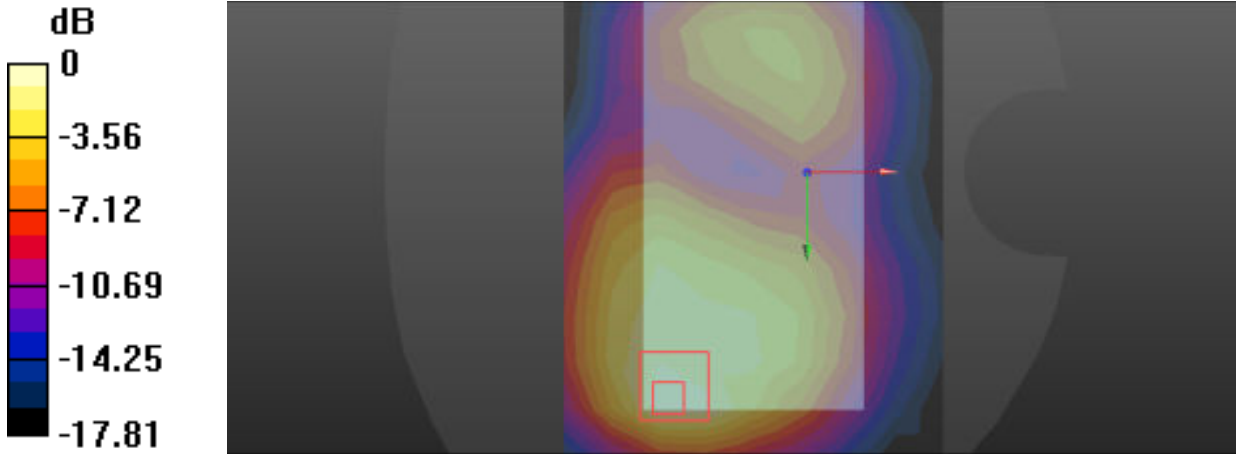
Right Side	Cheek
<p>Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): <math>f = 1732.5</math> MHz; <math>\sigma = 1.304</math> S/m; <math>\epsilon_r = 40.408</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Right Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul>	
<p><b>Head-Section HSL LTE band4 Right/LTE band4 20MHz 50RB Low HSL touch M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.143 W/kg <b>Head-Section HSL LTE band4 Right/LTE band4 20MHz 50RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 5.585 V/m; Power Drift = -0.06 dB Peak SAR (extrapolated) = 0.231 W/kg <b>SAR(1 g) = 0.148 W/kg; SAR(10 g) = 0.095 W/kg</b> Maximum value of SAR (measured) = 0.159 W/kg</p>	
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0 -2.26 -4.52 -6.78 -9.04 -11.30</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.159 W/kg = -7.99 dBW/kg</p>	

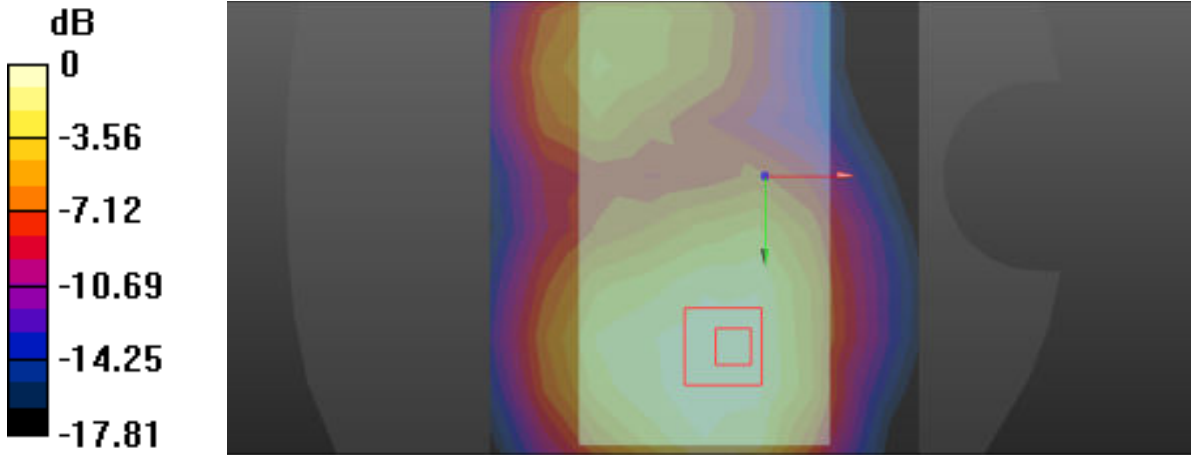


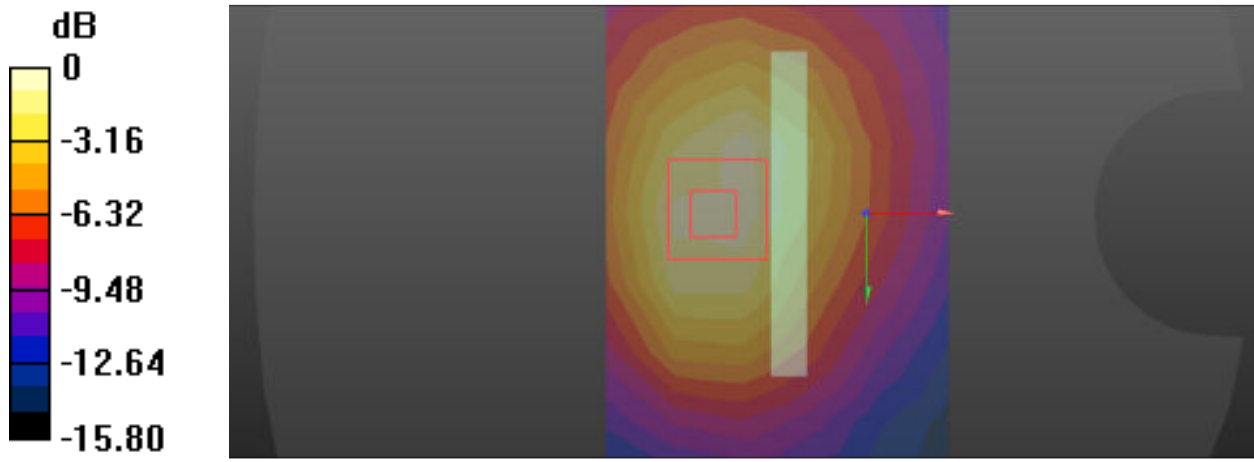
Right Side	Tilt
<p>Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): <math>f = 1732.5</math> MHz; <math>\sigma = 1.304</math> S/m; <math>\epsilon_r = 40.408</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Right Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul>	
<p><b>Head-Section HSL LTE band4 Right/LTE band4 20MHz 50RB Low HSL tilt M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.124 W/kg <b>Head-Section HSL LTE band4 Right/LTE band4 20MHz 50RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 8.944 V/m; Power Drift = 0.07 dB Peak SAR (extrapolated) = 0.186 W/kg <b>SAR(1 g) = 0.118 W/kg; SAR(10 g) = 0.072 W/kg</b> Maximum value of SAR (measured) = 0.128 W/kg</p>	
 <p>0 dB = 0.128 W/kg = -8.93 dBW/kg</p>	

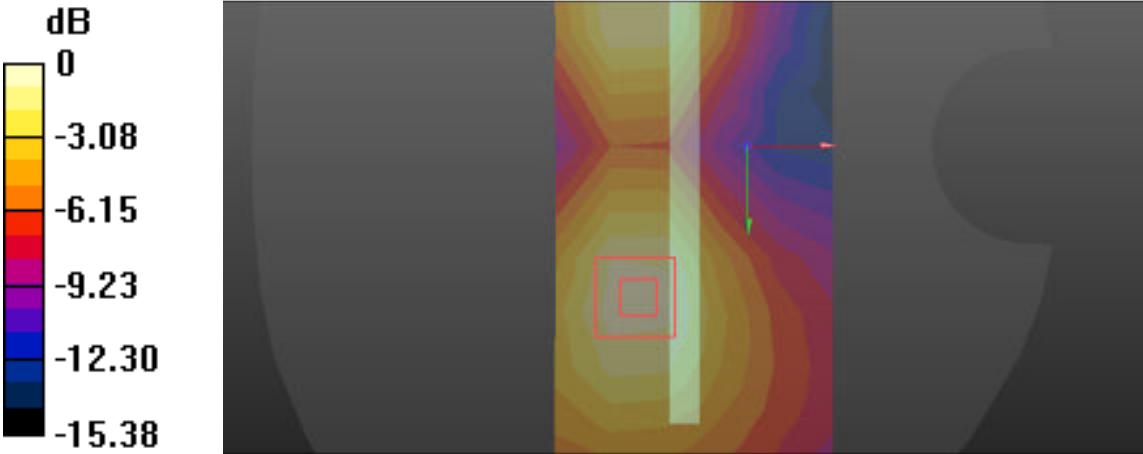
**LTE (Band 4 20BW-50RB-Low/Flat)**

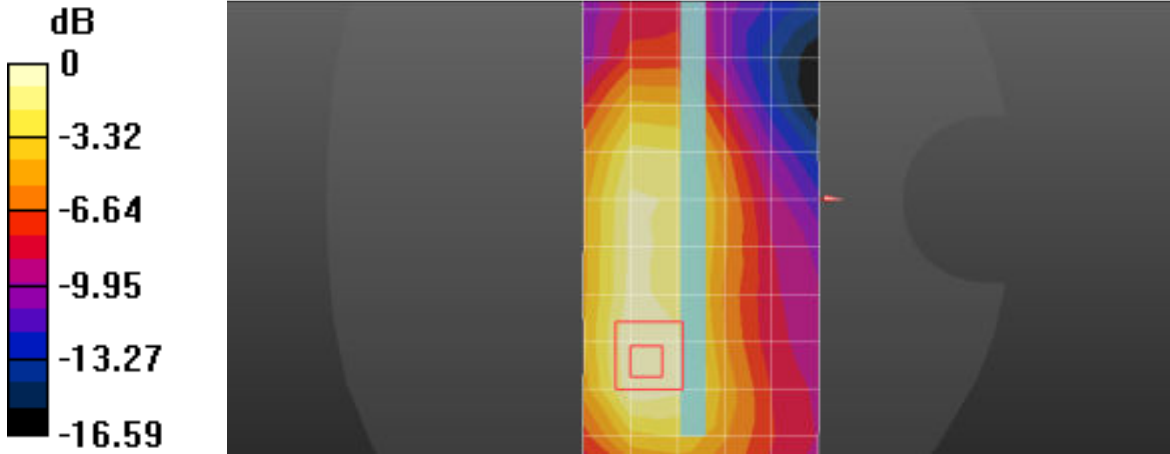
FLAT	Towards phantom
<p>Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz; Duty Cycle: 1:1            Medium parameters used (interpolated): <math>f = 1732.5</math> MHz; <math>\sigma = 1.404</math> S/m; <math>\epsilon_r = 51.622</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(4.9, 4.9, 4.9); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band4 TP/LTE band4 TP 20MHz 50RB M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.267 W/kg</p> <p><b>Flat-Section MSL LTE band4 TP/LTE band4 TP 20MHz 50RB M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 6.807 V/m; Power Drift = 0.00 dB            Peak SAR (extrapolated) = 0.446 W/kg  <b>SAR(1 g) = 0.272 W/kg; SAR(10 g) = 0.169 W/kg</b>            Maximum value of SAR (measured) = 0.296 W/kg</p>	
 <p>0 dB = 0.296 W/kg = -5.29 dBW/kg</p>	

FLAT	Towards ground
<p>Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz; Duty Cycle: 1:1 Medium parameters used (interpolated): <math>f = 1732.5</math> MHz; <math>\sigma = 1.404</math> S/m; <math>\epsilon_r = 51.622</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(4.9, 4.9, 4.9); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul>	
<p><b>Flat-Section MSL LTE band4 TG/LTE band4 TG 20MHz 50RB M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.410 W/kg <b>Flat-Section MSL LTE band4 TG/LTE band4 TG 20MHz 50RB M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 5.211 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 0.731 W/kg <b>SAR(1 g) = 0.419 W/kg; SAR(10 g) = 0.236 W/kg</b> Maximum value of SAR (measured) = 0.467 W/kg</p>	
 <p>0 dB = 0.467 W/kg = -3.31 dBW/kg</p>	

FLAT	Towards ground
<p>Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 1732.5 MHz; <math>\sigma = 1.404</math> S/m; <math>\epsilon_r = 51.622</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.9, 4.9, 4.9); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul>	
<p><b>Flat-Section MSL LTE band4 TG/LTE band4 TG 20MHz 50RB M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.301 W/kg <b>Flat-Section MSL LTE band4 TG/LTE band4 TG 20MHz 50RB M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 5.025 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 0.672 W/kg <b>SAR(1 g) = 0.288 W/kg; SAR(10 g) = 0.129 W/kg</b> Maximum value of SAR (measured) = 0.374 W/kg</p>	
 <p>0 dB = 0.127 W/kg = -8.96 dBW/kg</p>	

FLAT	EDGE2
<p>Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 1732.5 MHz; <math>\sigma = 1.404</math> S/m; <math>\epsilon_r = 51.622</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(4.9, 4.9, 4.9); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band4 HOT/LTE band4 20MHz 50RB 10mm M edge 2/Area Scan (6x11x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.312 W/kg</p> <p><b>Flat-Section MSL LTE band4 HOT/LTE band4 20MHz 50RB 10mm M edge 2/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 12.16 V/m; Power Drift = 0.10 dB Peak SAR (extrapolated) = 0.522 W/kg <b>SAR(1 g) = 0.311 W/kg; SAR(10 g) = 0.181 W/kg</b> Maximum value of SAR (measured) = 0.342 W/kg</p>	
 <p>0 dB = 0.342 W/kg = -4.66 dBW/kg</p>	

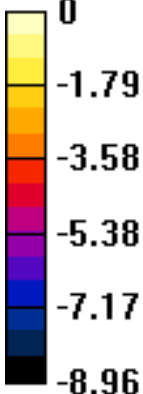
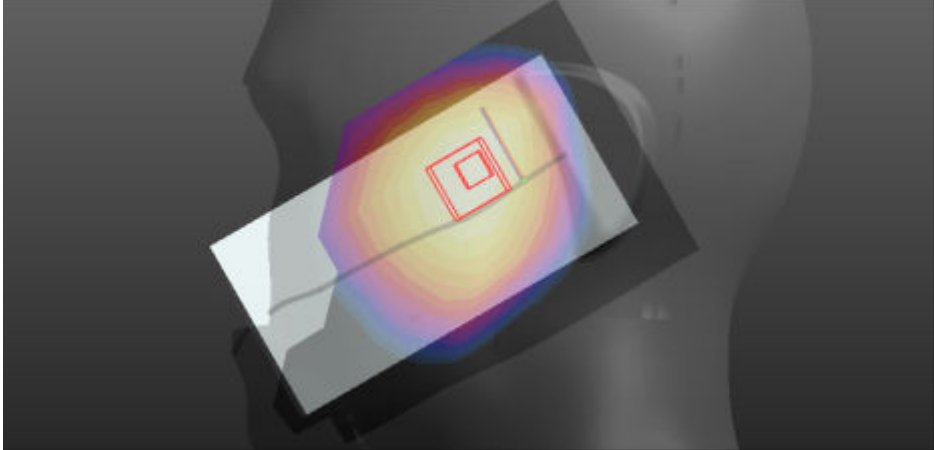
FLAT	EDGE3
<p>Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 1732.5 MHz; <math>\sigma = 1.404</math> S/m; <math>\epsilon_r = 51.622</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(4.9, 4.9, 4.9); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band4 HOT/LTE band4 20MHz 50RB 10mmM edge 3/Area Scan (6x15x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.113 W/kg</p> <p><b>Flat-Section MSL LTE band4 HOT/LTE band4 20MHz 50RB 10mmM edge 3/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 3.986 V/m; Power Drift = 0.00 dB Peak SAR (extrapolated) = 0.186 W/kg <b>SAR(1 g) = 0.116 W/kg; SAR(10 g) = 0.070 W/kg</b> Maximum value of SAR (measured) = 0.127 W/kg</p>	
 <p>0 dB = 0.127 W/kg = -8.96 dBW/kg</p>	

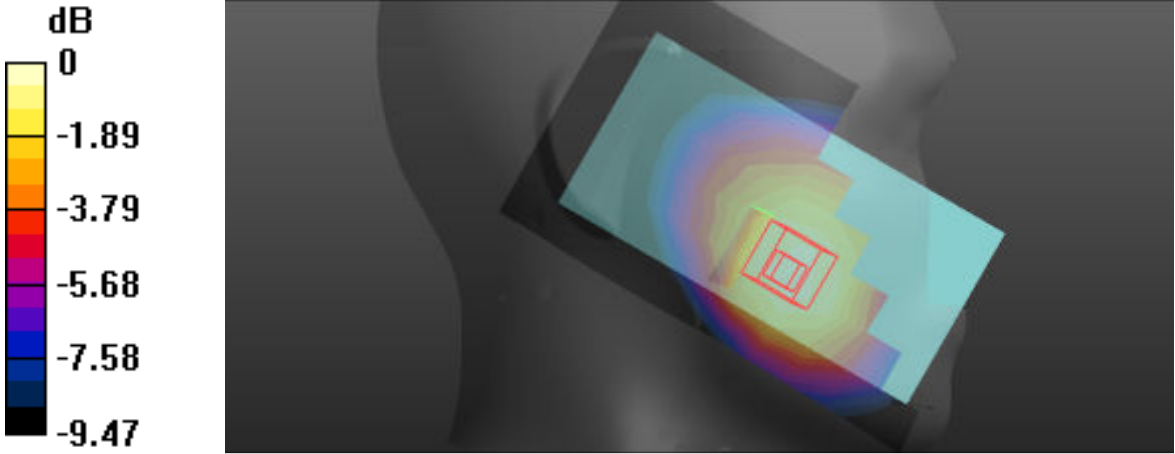
FLAT	EDGE4
<p>Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz; Duty Cycle: 1:1            Medium parameters used (interpolated): <math>f = 1732.5</math> MHz; <math>\sigma = 1.404</math> S/m; <math>\epsilon_r = 51.622</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(4.9, 4.9, 4.9); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band4 HOT/LTE band4 20MHz 50RB 10mmM edge 4/Area Scan (6x15x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.147 W/kg</p> <p><b>Flat-Section MSL LTE band4 HOT/LTE band4 20MHz 50RB 10mmM edge 4/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 7.986 V/m; Power Drift = 0.09 dB            Peak SAR (extrapolated) = 0.259 W/kg  <b>SAR(1 g) = 0.153 W/kg; SAR(10 g) = 0.088 W/kg</b>            Maximum value of SAR (measured) = 0.168 W/kg</p>	
 <p>0 dB = 0.147 W/kg = -8.33 dBW/kg</p>	

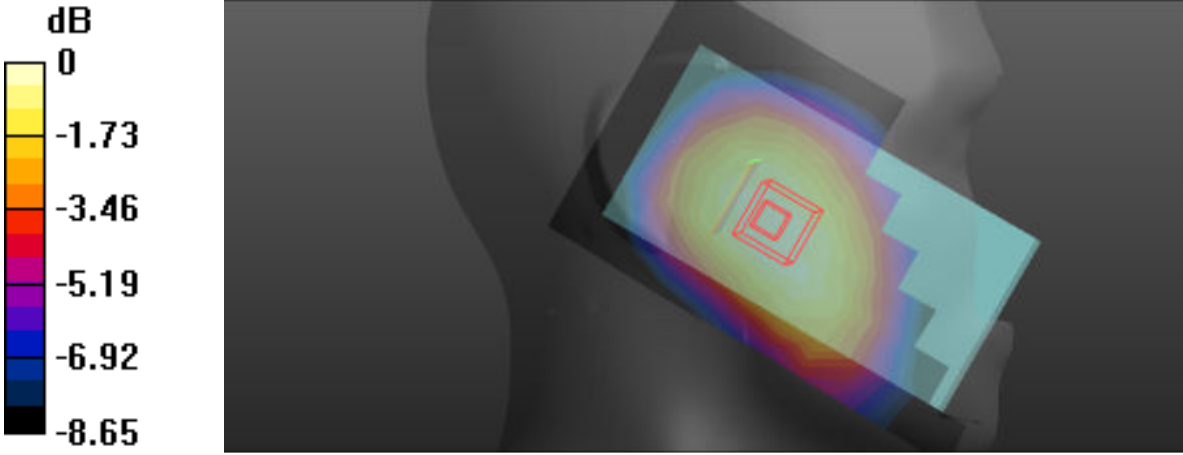


**LTE (Band 5 20BW-1RB-Low/Head)**

Left Side	Cheek
Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 836.5 MHz; $\sigma = 0.89$ S/m; $\epsilon_r = 41.479$ ; $\rho = 1000$ kg/m <sup>3</sup>	
Phantom section: Left Section	
DASY5 Configuration:	
<ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(6.2, 6.2, 6.2); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section Left HSL LTE band5/LTE band5 20BW 1RB LOW HSL touch M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.108 W/kg</p> <p><b>Head-Section Left HSL LTE band5/LTE band5 20BW 1RB LOW HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 3.005 V/m; Power Drift = 0.17 dB            Peak SAR (extrapolated) = 0.132 W/kg  <b>SAR(1 g) = 0.102 W/kg; SAR(10 g) = 0.080 W/kg</b>            Maximum value of SAR (measured) = 0.107 W/kg</p>	
<div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0 -1.72 -3.44 -5.15 -6.87 -8.59</p> </div> <div> </div> </div> <p>0 dB = 0.107 W/kg = -9.71 dBW/kg</p>	

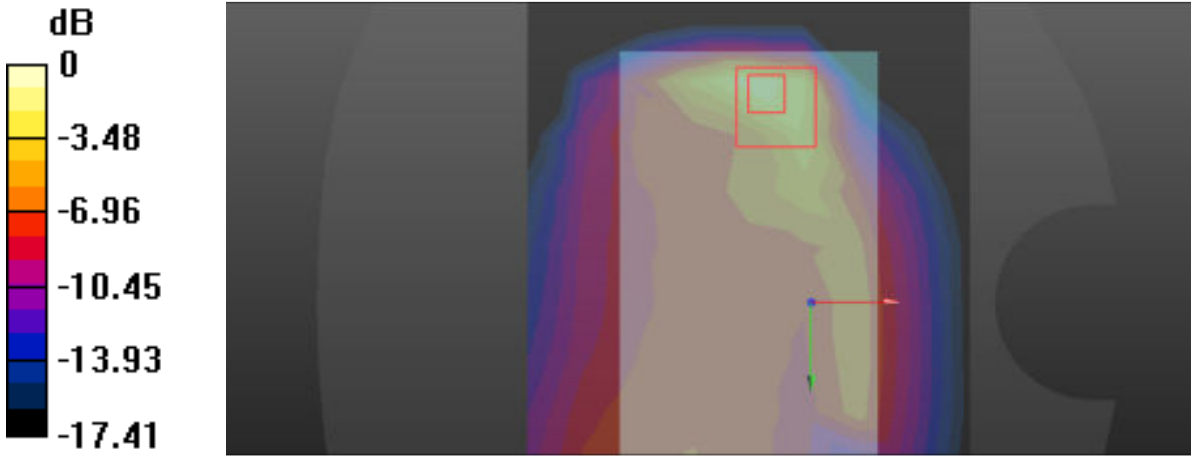
Left Side	Tilt
<p>Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): <math>f = 836.5</math> MHz; <math>\sigma = 0.89</math> S/m; <math>\epsilon_r = 41.479</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Left Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(6.2, 6.2, 6.2); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section Left HSL LTE band5/LTE band5 20BW 1RB LOW HSL tilt M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.0714 W/kg</p> <p><b>Head-Section Left HSL LTE band5/LTE band5 20BW 1RB LOW HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 5.588 V/m; Power Drift = -0.04 dB Peak SAR (extrapolated) = 0.0860 W/kg <b>SAR(1 g) = 0.069 W/kg; SAR(10 g) = 0.054 W/kg</b> Maximum value of SAR (measured) = 0.0726 W/kg</p>	
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p>  <p>0 -1.79 -3.58 -5.38 -7.17 -8.96</p> </div> <div style="flex-grow: 1;">  </div> </div> <p style="text-align: center;">0 dB = 0.0726 W/kg = -11.39 dBW/kg</p>	

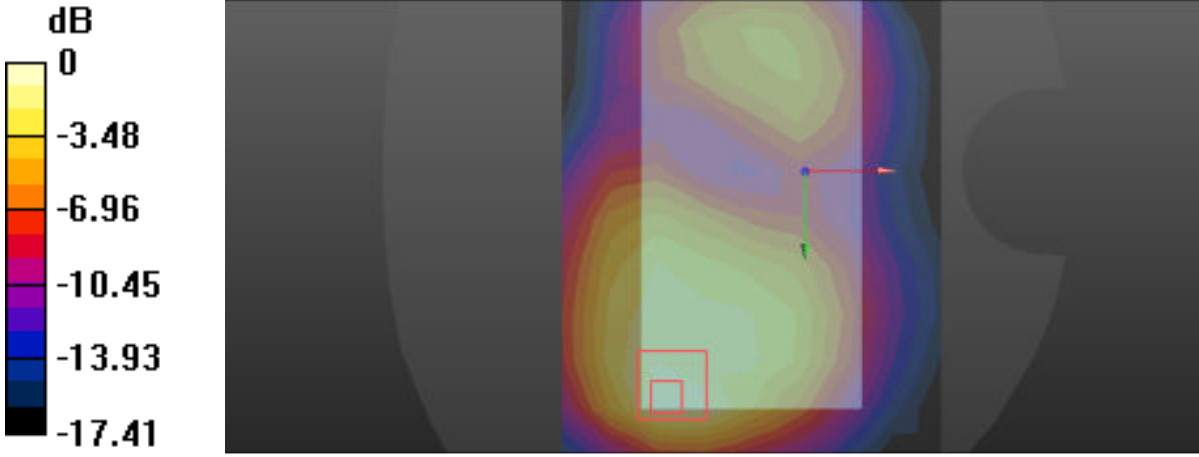
Right Side	Cheek
<p>Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): <math>f = 836.5</math> MHz; <math>\sigma = 0.89</math> S/m; <math>\epsilon_r = 41.479</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Right Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(6.2, 6.2, 6.2); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section Right HSL LTE band5/LTE band5 20BW 1RB LOW HSL touch M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.129 W/kg</p> <p><b>Head-Section Right HSL LTE band5/LTE band5 20BW 1RB LOW HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 3.210 V/m; Power Drift = -0.10 dB Peak SAR (extrapolated) = 0.160 W/kg <b>SAR(1 g) = 0.129 W/kg; SAR(10 g) = 0.101 W/kg</b> Maximum value of SAR (measured) = 0.136 W/kg</p>	
 <p>0 dB = 0.136 W/kg = -8.66 dBW/kg</p>	

Right Side	Tilt
<p>Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz; Duty Cycle: 1:1            Medium parameters used (interpolated): <math>f = 836.5</math> MHz; <math>\sigma = 0.89</math> S/m; <math>\epsilon_r = 41.479</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Right Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(6.2, 6.2, 6.2); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section Right HSL LTE band5/LTE band5 20BW 1RB LOW HSL tilt M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.0768 W/kg</p> <p><b>Head-Section Right HSL LTE band5/LTE band5 20BW 1RB LOW HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 5.520 V/m; Power Drift = 0.04 dB            Peak SAR (extrapolated) = 0.0890 W/kg  <b>SAR(1 g) = 0.074 W/kg; SAR(10 g) = 0.057 W/kg</b>            Maximum value of SAR (measured) = 0.0775 W/kg</p>	
 <p>0 dB = 0.0775 W/kg = -11.11 dBW/kg</p>	

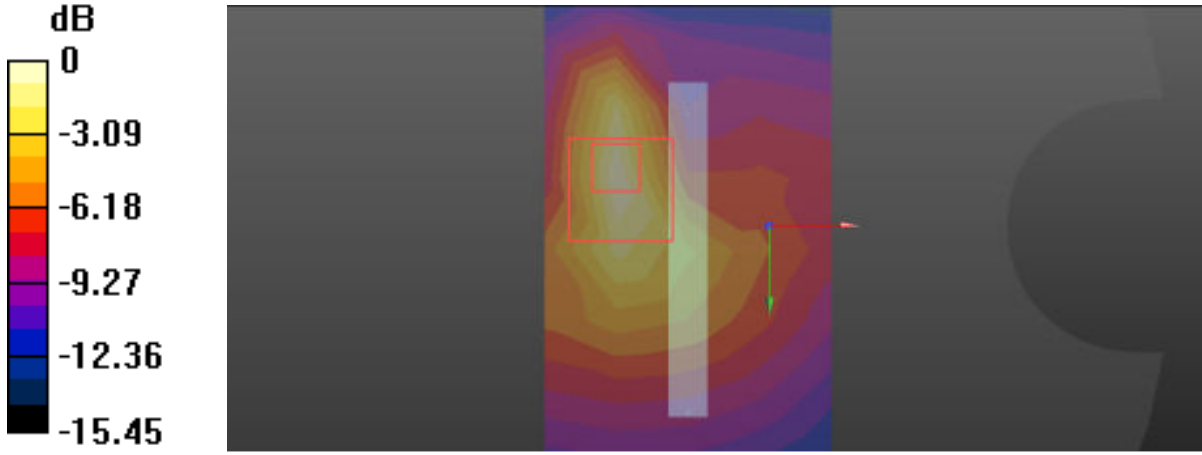
**LTE (Band 5 20BW-1RB-Low/Flat)**

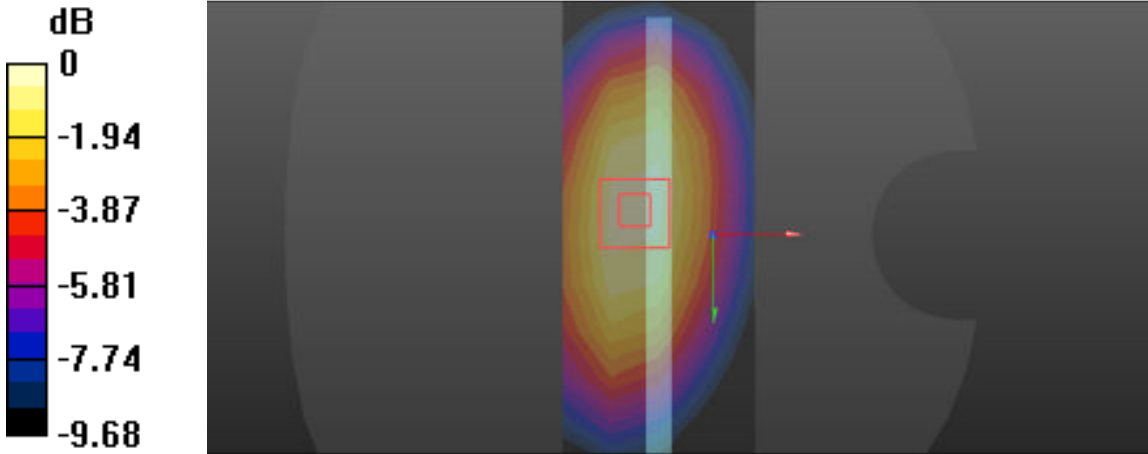
FLAT	Towards phantom
<p>Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 836.5 MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.859</math>; <math>\rho = 1000</math> kg/m<sup>3</sup></p>	
<p>Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(6.16, 6.16, 6.16); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band5 TP/LTE band5 TP 20BW 1RB LOW M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.170 W/kg</p> <p><b>Flat-Section MSL LTE band5 TP/LTE band5 TP 20BW 1RB LOW M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 11.70 V/m; Power Drift = -0.02 dB Peak SAR (extrapolated) = 0.222 W/kg <b>SAR(1 g) = 0.167 W/kg; SAR(10 g) = 0.122 W/kg</b> Maximum value of SAR (measured) = 0.178 W/kg</p>	
<p>0 dB = 0.178 W/kg = -7.50 dBW/kg</p>	

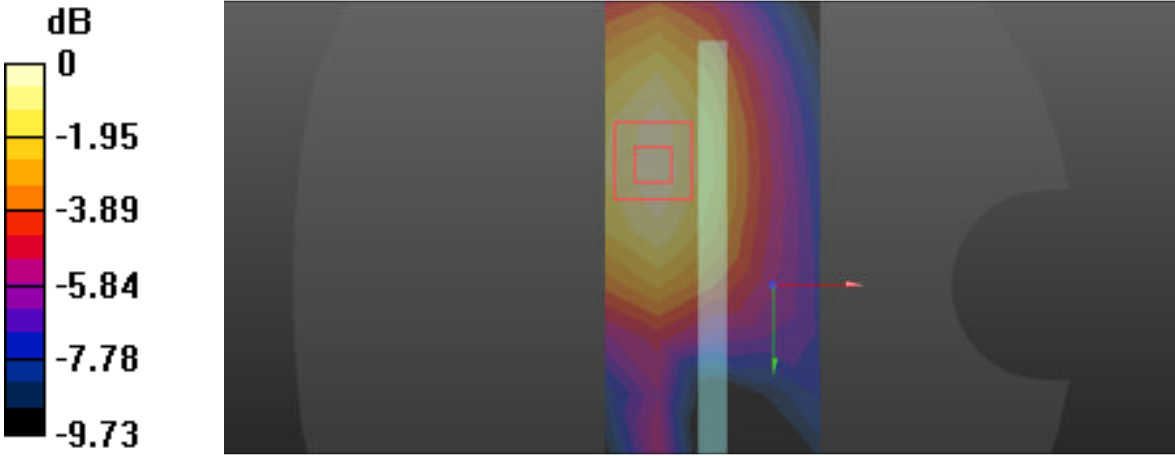
FLAT	Towards ground
<p>Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 836.5 MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.859</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(6.16, 6.16, 6.16); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band5 TG/LTE band5 TG 20BW 1RB LOW M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.237 W/kg</p> <p><b>Flat-Section MSL LTE band5 TG/LTE band5 TG 20BW 1RB LOW M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 14.57 V/m; Power Drift = -0.00 dB Peak SAR (extrapolated) = 0.778 W/kg <b>SAR(1 g) = 0.258 W/kg; SAR(10 g) = 0.111 W/kg</b> Maximum value of SAR (measured) = 0.318 W/kg</p>	
 <p>0 dB = 0.318 W/kg = -4.98 dBW/kg</p>	

FLAT	Towards ground
<p>Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 836.5 MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.859</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(6.16, 6.16, 6.16); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band5 TG/LTE band5 TG 20BW 1RB LOW M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.222 W/kg</p> <p><b>Flat-Section MSL LTE band5 TG/LTE band5 TG 20BW 1RB LOW M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 14.79 V/m; Power Drift = -0.10 dB Peak SAR (extrapolated) = 0.691 W/kg <b>SAR(1 g) = 0.271 W/kg; SAR(10 g) = 0.098 W/kg</b> Maximum value of SAR (measured) = 0.294 W/kg</p>	
 <p>0 dB = 0.314 W/kg = -5.03 dBW/kg</p>	



FLAT	EDGE2
<p>Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 836.5 MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.859</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(6.16, 6.16, 6.16); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band5 HOT/LTE Band2 edge2/Area Scan (5x9x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.144 W/kg</p> <p><b>Flat-Section MSL LTE band5 HOT/LTE Band2 edge2/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 7.638 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 0.244 W/kg <b>SAR(1 g) = 0.125 W/kg; SAR(10 g) = 0.064 W/kg</b> Maximum value of SAR (measured) = 0.146 W/kg</p>	
 <p>0 dB = 0.146 W/kg = -8.36 dBW/kg</p>	

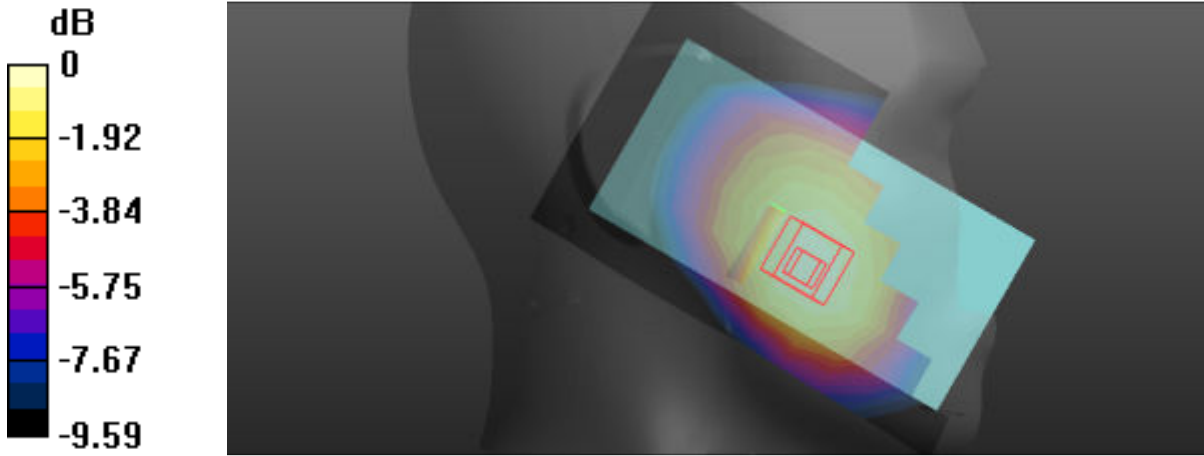
FLAT	EDGE3
<p>Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): <math>f = 836.5</math> MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.859</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(6.16, 6.16, 6.16); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band5 HOT/LTE Band2 edge3/Area Scan (5x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.293 W/kg</p> <p><b>Flat-Section MSL LTE band5 HOT/LTE Band2 edge3/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 17.21 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 0.409 W/kg <b>SAR(1 g) = 0.293 W/kg; SAR(10 g) = 0.201 W/kg</b> Maximum value of SAR (measured) = 0.314 W/kg</p>	
 <p>0 dB = 0.314 W/kg = -5.03 dBW/kg</p>	

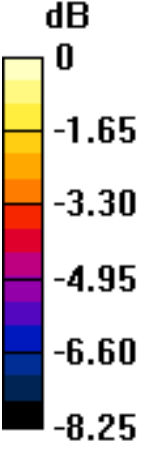
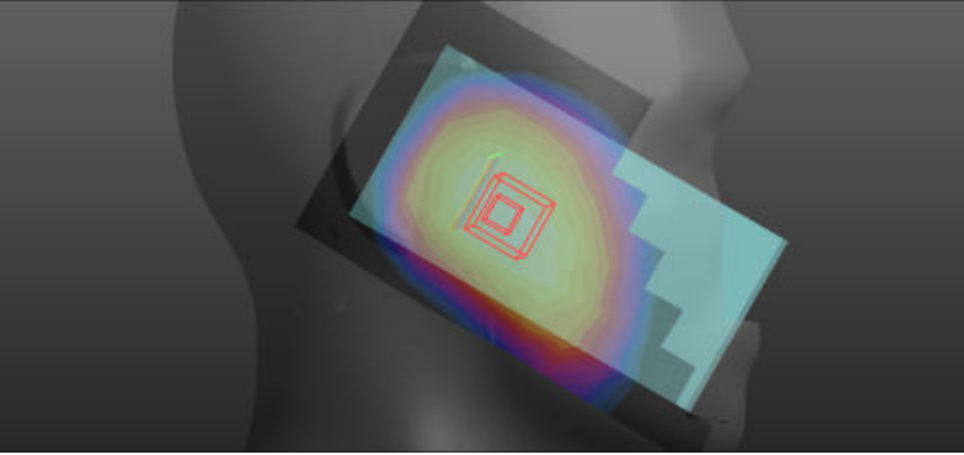
FLAT	EDGE4
<p>Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 836.5 MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.859</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(6.16, 6.16, 6.16); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band5 HOT/LTE Band2 edge4/Area Scan (5x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.0655 W/kg</p> <p><b>Flat-Section MSL LTE band5 HOT/LTE Band2 edge4/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 5.440 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 0.0860 W/kg <b>SAR(1 g) = 0.062 W/kg; SAR(10 g) = 0.043 W/kg</b> Maximum value of SAR (measured) = 0.0662 W/kg</p>	
 <p>0 dB = 0.0662 W/kg = -11.79 dBW/kg</p>	

**LTE (Band 5 20BW-50RB-Low/Head)**

Left Side	Cheek
Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 836.5 MHz; $\sigma = 0.89$ S/m; $\epsilon_r = 41.479$ ; $\rho = 1000$ kg/m <sup>3</sup>	
Phantom section: Left Section	
DASY5 Configuration:	
<ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(6.2, 6.2, 6.2); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section Left HSL LTE band5/LTE band5 20BW 50RB LOW HSL touch M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.101 W/kg</p> <p><b>Head-Section Left HSL LTE band5/LTE band5 20BW 50RB LOW HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 2.730 V/m; Power Drift = 0.02 dB            Peak SAR (extrapolated) = 0.127 W/kg  <b>SAR(1 g) = 0.102 W/kg; SAR(10 g) = 0.080 W/kg</b>            Maximum value of SAR (measured) = 0.107 W/kg</p>	
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0 -1.67 -3.34 -5.00 -6.67 -8.34</p> </div> <div> <p>0 dB = 0.107 W/kg = -9.71 dBW/kg</p> </div> </div>	

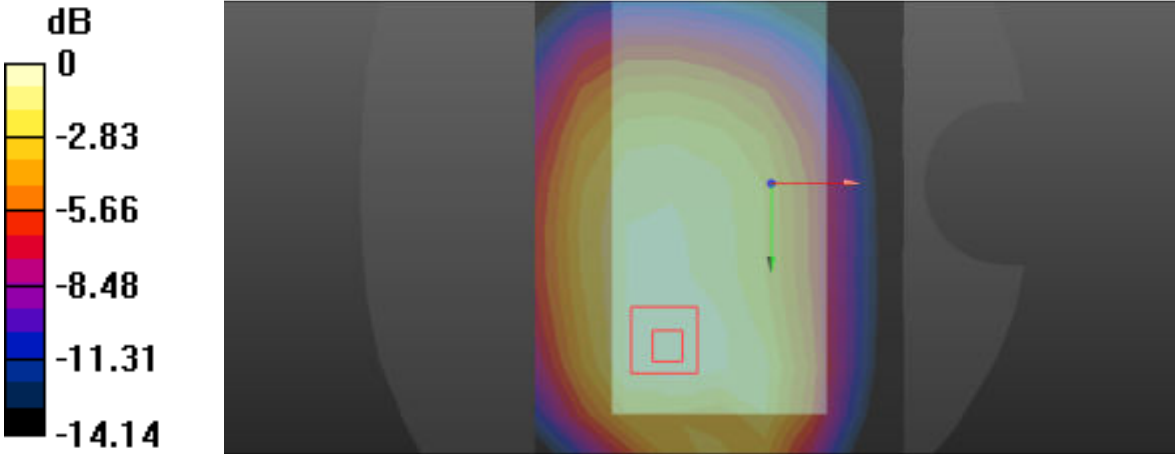
Left Side	Tilt
<p>Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): <math>f = 836.5</math> MHz; <math>\sigma = 0.89</math> S/m; <math>\epsilon_r = 41.479</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Left Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(6.2, 6.2, 6.2); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section Left HSL LTE band5/LTE band5 20BW 50RB LOW HSL tilt M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.0603 W/kg</p> <p><b>Head-Section Left HSL LTE band5/LTE band5 20BW 50RB LOW HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 5.173 V/m; Power Drift = 0.00 dB Peak SAR (extrapolated) = 0.0760 W/kg <b>SAR(1 g) = 0.059 W/kg; SAR(10 g) = 0.045 W/kg</b> Maximum value of SAR (measured) = 0.0613 W/kg</p>	
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0 -1.77 -3.54 -5.32 -7.09 -8.86</p> </div> <div style="flex-grow: 1;"> </div> </div> <p style="text-align: center;">0 dB = 0.0613 W/kg = -12.13 dBW/kg</p>	

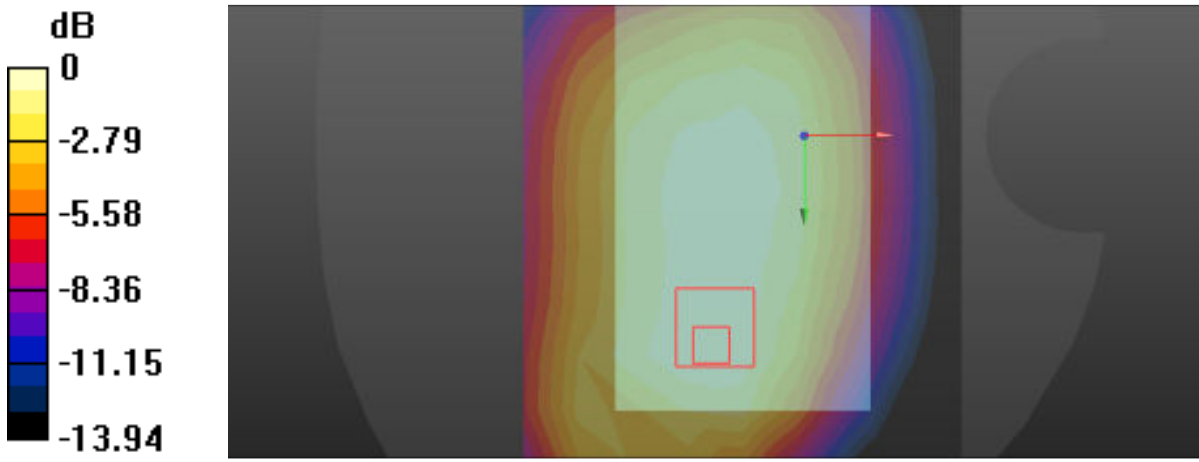
Right Side	Cheek
<p>Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): <math>f = 836.5</math> MHz; <math>\sigma = 0.89</math> S/m; <math>\epsilon_r = 41.479</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Right Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(6.2, 6.2, 6.2); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section Right HSL LTE band5/LTE band5 20BW 50RB LOW HSL touch M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.0974 W/kg</p> <p><b>Head-Section Right HSL LTE band5/LTE band5 20BW 50RB LOW HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 3.890 V/m; Power Drift = -0.01 dB Peak SAR (extrapolated) = 0.123 W/kg <b>SAR(1 g) = 0.099 W/kg; SAR(10 g) = 0.077 W/kg</b> Maximum value of SAR (measured) = 0.103 W/kg</p>	
 <p>0 dB = 0.103 W/kg = -9.87 dBW/kg</p>	

Right Side	Tilt
<p>Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz; Duty Cycle: 1:1            Medium parameters used (interpolated): <math>f = 836.5 \text{ MHz}</math>; <math>\sigma = 0.89 \text{ S/m}</math>; <math>\epsilon_r = 41.479</math>; <math>\rho = 1000 \text{ kg/m}^3</math>            Phantom section: Right Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(6.2, 6.2, 6.2); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section Right HSL LTE band5/LTE band5 20BW 50RB LOW HSL tilt M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.0550 W/kg</p> <p><b>Head-Section Right HSL LTE band5/LTE band5 20BW 50RB LOW HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 5.426 V/m; Power Drift = 0.15 dB            Peak SAR (extrapolated) = 0.0670 W/kg  <b>SAR(1 g) = 0.054 W/kg; SAR(10 g) = 0.042 W/kg</b>            Maximum value of SAR (measured) = 0.0567 W/kg</p>	
<div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p>  <p>0 -1.65 -3.30 -4.95 -6.60 -8.25</p> </div> <div>  <p>0 dB = 0.0567 W/kg = -12.46 dBW/kg</p> </div> </div>	



**LTE (Band 5 20BW-50RB-Low/Flat)**

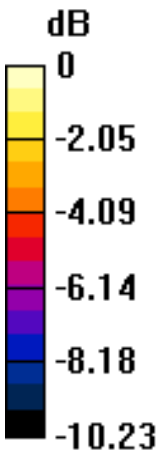
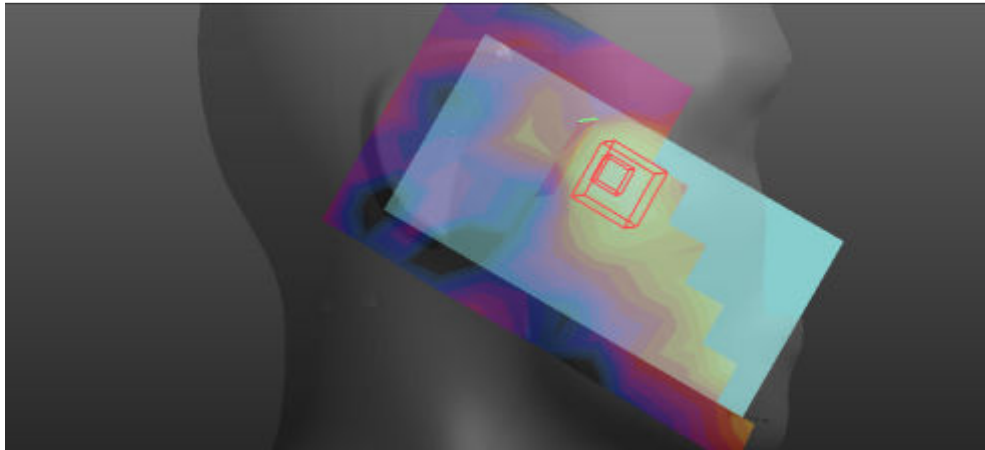
FLAT	Towards phantom
<p>Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): <math>f = 836.5</math> MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.859</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(6.16, 6.16, 6.16); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band5 TP/LTE band5 TP 20BW 50RB LOW M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.146 W/kg</p> <p><b>Flat-Section MSL LTE band5 TP/LTE band5 TP 20BW 50RB LOW M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 10.69 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 0.193 W/kg <b>SAR(1 g) = 0.145 W/kg; SAR(10 g) = 0.104 W/kg</b> Maximum value of SAR (measured) = 0.153 W/kg</p>	
 <p>0 dB = 0.153 W/kg = -8.15 dBW/kg</p>	

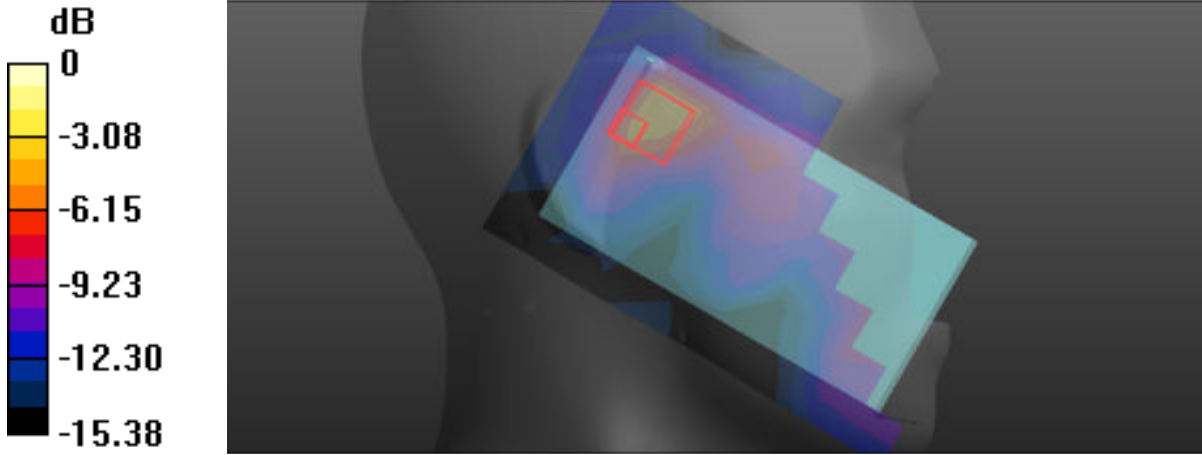
FLAT	Towards ground
<p>Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): <math>f = 836.5</math> MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.859</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(6.16, 6.16, 6.16); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band5 TG/LTE band5 TG 20BW 50RB LOW M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.178 W/kg</p> <p><b>Flat-Section MSL LTE band5 TG/LTE band5 TG 20BW 50RB LOW M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 13.44 V/m; Power Drift = -0.03 dB Peak SAR (extrapolated) = 0.227 W/kg <b>SAR(1 g) = 0.174 W/kg; SAR(10 g) = 0.127 W/kg</b> Maximum value of SAR (measured) = 0.184 W/kg</p>	
 <p>0 dB = 0.184 W/kg = -7.35 dBW/kg</p>	

**LTE (Band 7 20BW-1RB-Low/Head)**

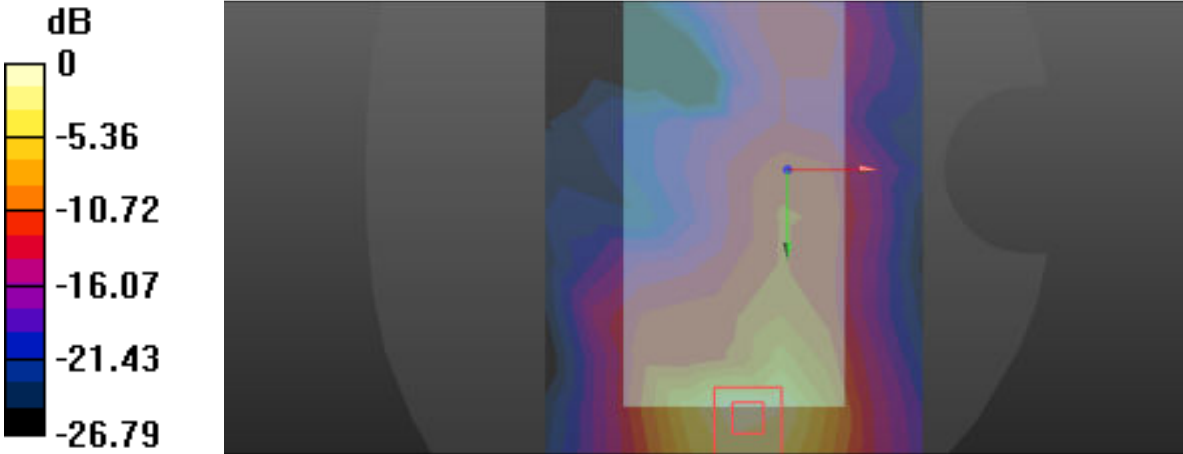
Left Side	Cheek
<p>Communication System: UID 10169 - CAB, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK);            Frequency: 2535 MHz; Duty Cycle: 1:3.74111            Medium parameters used: <math>f = 2535 \text{ MHz}</math>; <math>\sigma = 2.01 \text{ S/m}</math>; <math>\epsilon_r = 36.5</math>; <math>\rho = 1000 \text{ kg/m}^3</math>            Phantom section: Left Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band7 Left/LTE band7 20MHz 1RB Low HSL touch M/Area Scan (9x13x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math>            Maximum value of SAR (measured) = 0.0626 W/kg</p> <p><b>Head-Section HSL LTE band7 Left/LTE band7 20MHz 1RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math>            Reference Value = 0.9200 V/m; Power Drift = 0.08 dB            Peak SAR (extrapolated) = 0.125 W/kg  <b>SAR(1 g) = 0.064 W/kg; SAR(10 g) = 0.034 W/kg</b>            Maximum value of SAR (measured) = 0.0706 W/kg</p>	
<div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0 -2.47 -4.94 -7.40 -9.87 -12.34</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.0706 W/kg = -11.51 dBW/kg</p>	

Left Side	Tilt
<p>Communication System: UID 10297 - AAA, LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK); Frequency: 2535 MHz; Duty Cycle: 1:3.81066 Medium parameters used: <math>f = 2535 \text{ MHz}</math>; <math>\sigma = 2.01 \text{ S/m}</math>; <math>\epsilon_r = 36.5</math>; <math>\rho = 1000 \text{ kg/m}^3</math> Phantom section: Left Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band7 Left/LTE band7 20MHz 1RB Low HSL tilt M/Area Scan (9x13x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math> Maximum value of SAR (measured) = 0.0227 W/kg</p> <p><b>Head-Section HSL LTE band7 Left/LTE band7 20MHz 1RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math> Reference Value = 3.333 V/m; Power Drift = -0.04 dB Peak SAR (extrapolated) = 0.101 W/kg <b>SAR(1 g) = 0.027 W/kg; SAR(10 g) = 0.012 W/kg</b> Maximum value of SAR (measured) = 0.0448 W/kg</p>	
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0 -10.00 -20.00 -30.00 -40.00 -50.00</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.0448 W/kg = -13.49 dBW/kg</p>	

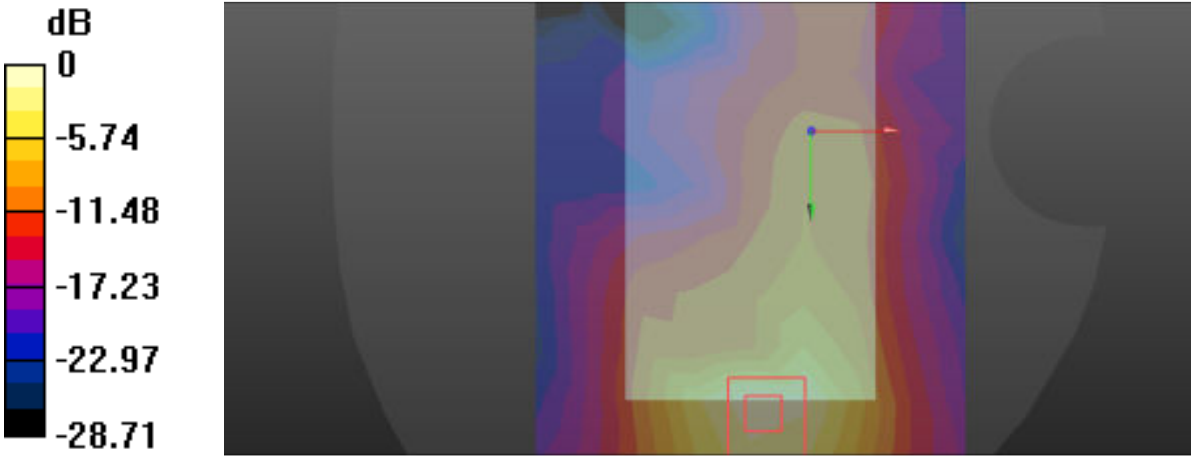
Right Side	Cheek
<p>Communication System: UID 0, LTE band 07 (0); Frequency: 2535 MHz; Duty Cycle: 1:1            Medium parameters used: <math>f = 2535 \text{ MHz}</math>; <math>\sigma = 2.01 \text{ S/m}</math>; <math>\epsilon_r = 36.5</math>; <math>\rho = 1000 \text{ kg/m}^3</math>            Phantom section: Right Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band7 Right/LTE band7 20MHz 1RB Low HSL touch M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.0324 W/kg</p> <p><b>Head-Section HSL LTE band7 Right/LTE band7 20MHz 1RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 1.823 V/m; Power Drift = 0.02 dB            Peak SAR (extrapolated) = 0.0730 W/kg  <b>SAR(1 g) = 0.034 W/kg; SAR(10 g) = 0.021 W/kg</b>            Maximum value of SAR (measured) = 0.0370 W/kg</p>	
<div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p>  <p>0 -2.05 -4.09 -6.14 -8.18 -10.23</p> </div> <div>  <p>0 dB = 0.0370 W/kg = -14.32 dBW/kg</p> </div> </div>	

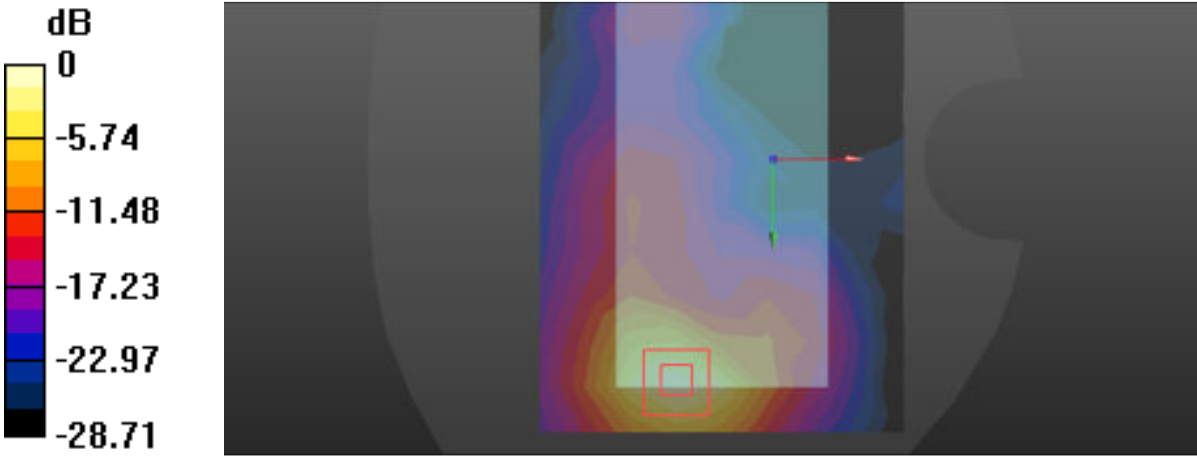
Right Side	Tilt
Communication System: UID 0, LTE band 07 (0); Frequency: 2535 MHz; Duty Cycle: 1:1 Medium parameters used: $f = 2535 \text{ MHz}$ ; $\sigma = 2.01 \text{ S/m}$ ; $\epsilon_r = 36.5$ ; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Right Section	
DASY5 Configuration:	
<ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band7 Right/LTE band7 20MHz 1RB Low HSL tilt M/Area Scan (8x13x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math>            Maximum value of SAR (measured) = 0.0220 W/kg</p> <p><b>Head-Section HSL LTE band7 Right/LTE band7 20MHz 1RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math>            Reference Value = 2.632 V/m; Power Drift = 0.03 dB            Peak SAR (extrapolated) = 0.112 W/kg  <b>SAR(1 g) = 0.030 W/kg; SAR(10 g) = 0.013 W/kg</b>            Maximum value of SAR (measured) = 0.0699 W/kg</p>	
	
<p>0 dB = 0.0699 W/kg = -11.56 dBW/kg</p>	

**LTE (Band 7 20BW-1RB-Low/Flat)**

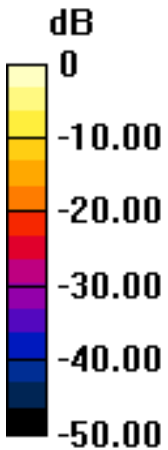
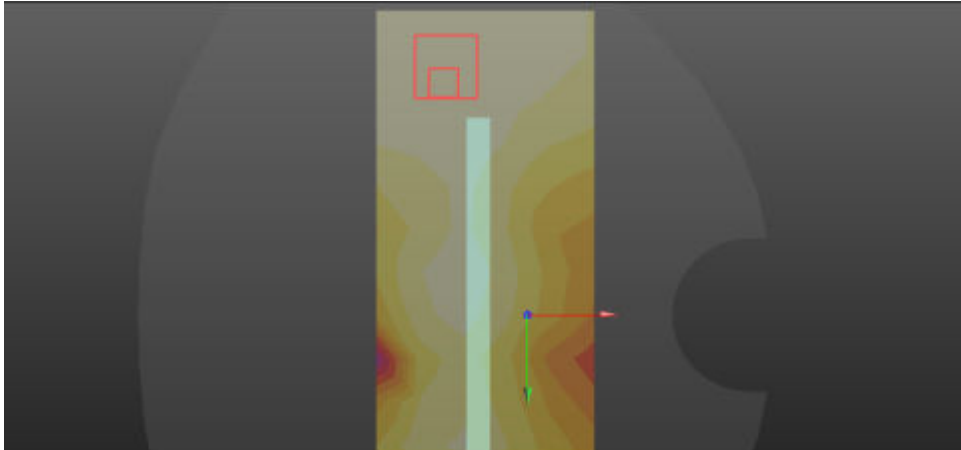
FLAT	Towards phantom
<p>Communication System: UID 10169 - CAB, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK);            Frequency: 2535 MHz; Duty Cycle: 1:3.74111            Medium parameters used: <math>f = 2535 \text{ MHz}</math>; <math>\sigma = 2.15 \text{ S/m}</math>; <math>\epsilon_r = 50.36</math>; <math>\rho = 1000 \text{ kg/m}^3</math>            Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(4.17, 4.17, 4.17); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band7 TP/LTE band7 TP 20MHz 1RB M 10mm/Area Scan (9x13x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math>            Maximum value of SAR (measured) = 0.318 W/kg</p> <p><b>Flat-Section MSL LTE band7 TP/LTE band7 TP 20MHz 1RB M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math>            Reference Value = 2.694 V/m; Power Drift = -0.01 dB            Peak SAR (extrapolated) = 0.751 W/kg  <b>SAR(1 g) = 0.322 W/kg; SAR(10 g) = 0.146 W/kg</b>            Maximum value of SAR (measured) = 0.358 W/kg</p>	
 <p>0 dB = 0.358 W/kg = -4.46 dBW/kg</p>	



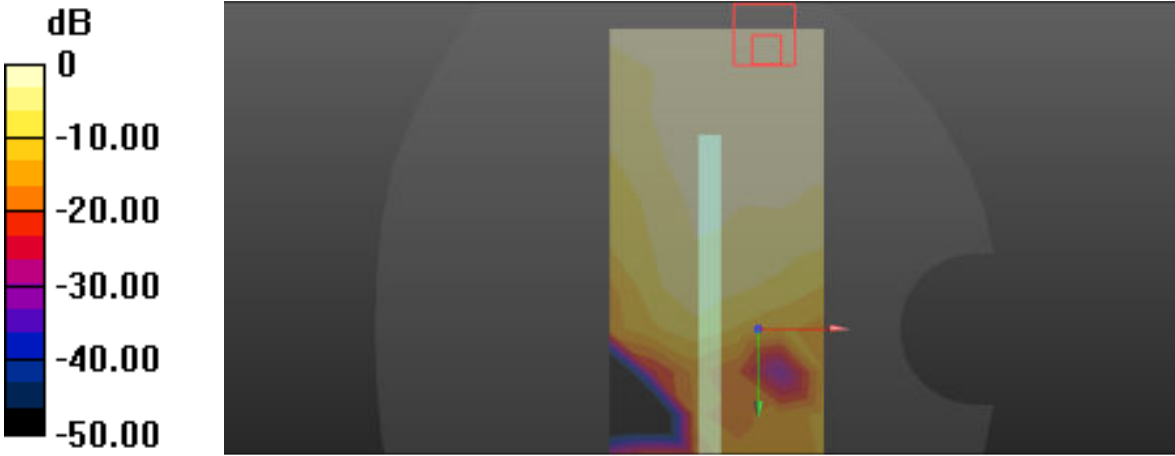
FLAT	Towards ground
<p>Communication System: UID 10169 - CAB, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 2535 MHz;Duty Cycle: 1:3.74111 Medium parameters used: f = 2535 MHz; <math>\sigma = 2.15</math> S/m; <math>\epsilon_r = 50.36</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(4.17, 4.17, 4.17); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band7 TG/LTE band7 TG 20MHz 1RB M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.819 W/kg</p> <p><b>Flat-Section MSL LTE band7 TG/LTE band7 TG 20MHz 1RB M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 2.102 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 1.82 W/kg <b>SAR(1 g) = 0.740 W/kg; SAR(10 g) = 0.311 W/kg</b> Maximum value of SAR (measured) = 0.840 W/kg</p>	
 <p>0 dB = 0.840 W/kg = -0.76 dBW/kg</p>	

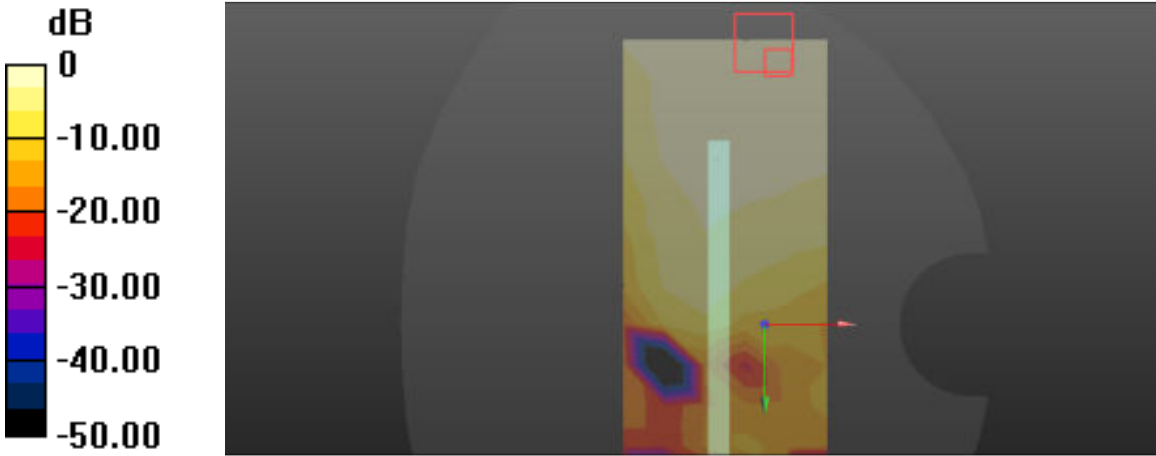
FLAT	Towards ground
<p>Communication System: UID 10169 - CAB, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 2535 MHz;Duty Cycle: 1:3.74111 Medium parameters used: f = 2535 MHz; <math>\sigma = 2.15</math> S/m; <math>\epsilon_r = 50.36</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.17, 4.17, 4.17); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band7 TG/LTE band7 TG 20MHz 1RB M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.819 W/kg</p> <p><b>Flat-Section MSL LTE band7 TG/LTE band7 TG 20MHz 1RB M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 2.306 V/m; Power Drift = 0.12 dB Peak SAR (extrapolated) = 1.24 W/kg <b>SAR(1 g) = 0.691 W/kg; SAR(10 g) = 0.268 W/kg</b> Maximum value of SAR (measured) = 0.729 W/kg</p>	
 <p>0 dB = 0.0525 W/kg = -12.80 dBW/kg</p>	

FLAT	EDGE2
<p>Communication System: UID 0, LTE band 07 (0); Frequency: 2535 MHz;Duty Cycle: 1:1 Medium parameters used: <math>f = 2535 \text{ MHz}</math>; <math>\sigma = 2.01 \text{ S/m}</math>; <math>\epsilon_r = 36.5</math>; <math>\rho = 1000 \text{ kg/m}^3</math> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band7 HOT/LTE band7 20MHz 1RB 10mm M edge 2/Area Scan (6x11x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math> Maximum value of SAR (measured) = 0.493 W/kg</p> <p><b>Flat-Section MSL LTE band7 HOT/LTE band7 20MHz 1RB 10mm M edge 2/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math> Reference Value = 15.74 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 1.16 W/kg <b>SAR(1 g) = 0.523 W/kg; SAR(10 g) = 0.234 W/kg</b> Maximum value of SAR (measured) = 0.577 W/kg</p>	
<p>0 dB = 0.577 W/kg = -2.39 dBW/kg</p>	

FLAT	EDGE3
Communication System: UID 0, LTE band 07 (0); Frequency: 2535 MHz; Duty Cycle: 1:1 Medium parameters used: $f = 2535 \text{ MHz}$ ; $\sigma = 2.01 \text{ S/m}$ ; $\epsilon_r = 36.5$ ; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section	
DASY5 Configuration:	
<ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band7 HOT/LTE band7 20MHz 1RB 10mmM edge 3/Area Scan (6x15x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math>            Maximum value of SAR (measured) = 0.0498 W/kg</p> <p><b>Flat-Section MSL LTE band7 HOT/LTE band7 20MHz 1RB 10mmM edge 3/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math>            Reference Value = 3.938 V/m; Power Drift = 0.16 dB            Peak SAR (extrapolated) = 0.103 W/kg  <b>SAR(1 g) = 0.049 W/kg; SAR(10 g) = 0.027 W/kg</b>            Maximum value of SAR (measured) = 0.0525 W/kg</p>	
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p>  <p>0 -10.00 -20.00 -30.00 -40.00 -50.00</p> </div> <div style="flex-grow: 1;">  <p style="text-align: center;">0 dB = 0.0525 W/kg = -12.80 dBW/kg</p> </div> </div>	

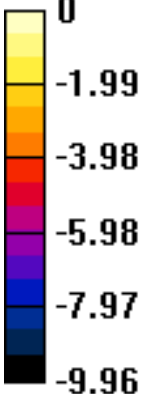
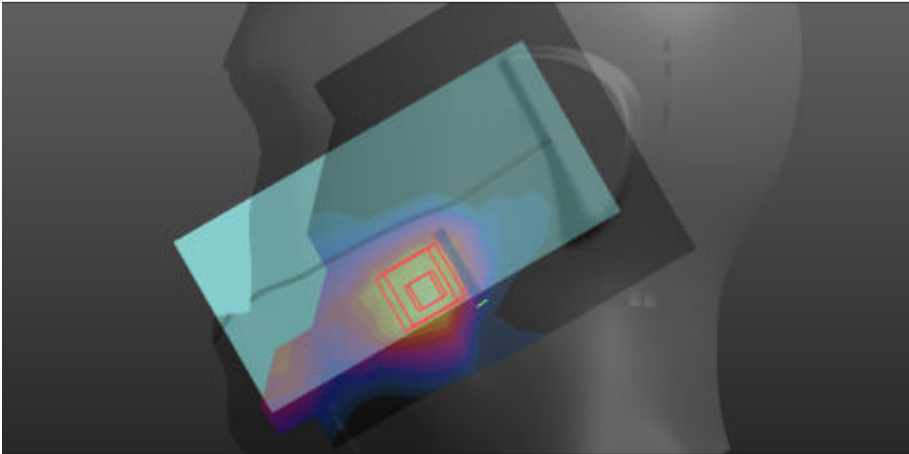
FLAT	EDGE3
<p>Communication System: UID 0, LTE band 07 (0); Frequency: 2535 MHz;Duty Cycle: 1:1 Medium parameters used: <math>f = 2535 \text{ MHz}</math>; <math>\sigma = 2.01 \text{ S/m}</math>; <math>\epsilon_r = 36.5</math>; <math>\rho = 1000 \text{ kg/m}^3</math> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band7 HOT/LTE band7 20MHz 1RB 10mmM edge 3 2/Area Scan (6x15x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math> Maximum value of SAR (measured) = 0.0506 W/kg</p>	
<p><b>Flat-Section MSL LTE band7 HOT/LTE band7 20MHz 1RB 10mmM edge 3 2/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math> Reference Value = 3.939 V/m; Power Drift = 0.17 dB Peak SAR (extrapolated) = 0.104 W/kg <b>SAR(1 g) = 0.050 W/kg; SAR(10 g) = 0.027 W/kg</b> Maximum value of SAR (measured) = 0.0531 W/kg</p>	
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0 -6.66 -13.32 -19.99 -26.65 -33.31</p> </div> <div style="flex-grow: 1;"> </div> </div> <p style="text-align: center;">0 dB = 0.0531 W/kg = -12.75 dBW/kg</p>	

FLAT	EDGE4
<p>Communication System: UID 0, LTE band 07 (0); Frequency: 2535 MHz; Duty Cycle: 1:1            Medium parameters used: <math>f = 2535 \text{ MHz}</math>; <math>\sigma = 2.01 \text{ S/m}</math>; <math>\epsilon_r = 36.5</math>; <math>\rho = 1000 \text{ kg/m}^3</math>            Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band7 HOT/LTE band7 20MHz 1RB 10mmM edge 4/Area Scan (6x15x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math>            Maximum value of SAR (measured) = 0.0193 W/kg</p> <p><b>Flat-Section MSL LTE band7 HOT/LTE band7 20MHz 1RB 10mmM edge 4/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math>            Reference Value = 1.183 V/m; Power Drift = 0.02 dB            Peak SAR (extrapolated) = 0.0400 W/kg  <b>SAR(1 g) = 0.019 W/kg; SAR(10 g) = 0.010 W/kg</b>            Maximum value of SAR (measured) = 0.0196 W/kg</p>	
 <p>0 dB = 0.0196 W/kg = -17.08 dBW/kg</p>	

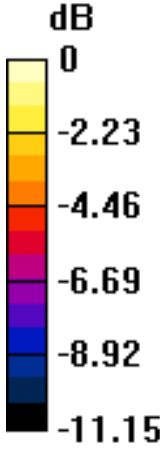
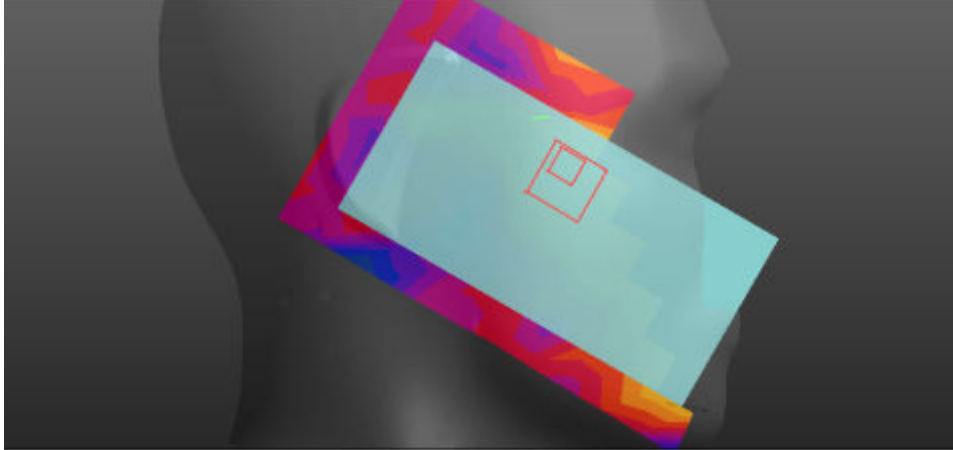
FLAT	EDGE4
<p>Communication System: UID 0, LTE band 07 (0); Frequency: 2535 MHz;Duty Cycle: 1:1 Medium parameters used: <math>f = 2535 \text{ MHz}</math>; <math>\sigma = 2.01 \text{ S/m}</math>; <math>\epsilon_r = 36.5</math>; <math>\rho = 1000 \text{ kg/m}^3</math> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band7 HOT/LTE band7 20MHz 1RB 10mmM edge 4 2/Area Scan (6x15x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math> Maximum value of SAR (measured) = 0.0178 W/kg</p> <p><b>Flat-Section MSL LTE band7 HOT/LTE band7 20MHz 1RB 10mmM edge 4 2/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math> Reference Value = 1.043 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 0.0360 W/kg <b>SAR(1 g) = 0.017 W/kg; SAR(10 g) = 0.00988 W/kg</b> Maximum value of SAR (measured) = 0.0190 W/kg</p>	
 <p>0 dB = 0.0190 W/kg = -17.21 dBW/kg</p>	



**LTE (Band 7 20BW-50RB-Low/Head)**

Left Side	Cheek
<p>Communication System: UID 10169 - CAB, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK);            Frequency: 2535 MHz; Duty Cycle: 1:3.74111            Medium parameters used: <math>f = 2535 \text{ MHz}</math>; <math>\sigma = 2.01 \text{ S/m}</math>; <math>\epsilon_r = 36.5</math>; <math>\rho = 1000 \text{ kg/m}^3</math>            Phantom section: Left Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band7 Left/LTE band7 20MHz 50RB Low HSL touch M/Area Scan (9x13x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math>            Maximum value of SAR (measured) = 0.0544 W/kg</p> <p><b>Head-Section HSL LTE band7 Left/LTE band7 20MHz 50RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math>            Reference Value = 1.993 V/m; Power Drift = 0.07 dB            Peak SAR (extrapolated) = 0.132 W/kg  <b>SAR(1 g) = 0.057 W/kg; SAR(10 g) = 0.030 W/kg</b>            Maximum value of SAR (measured) = 0.0688 W/kg</p>	
<div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p>  <p>0 -1.99 -3.98 -5.98 -7.97 -9.96</p> </div> <div style="flex-grow: 1;">  <p>0 dB = 0.0688 W/kg = -11.62 dBW/kg</p> </div> </div>	

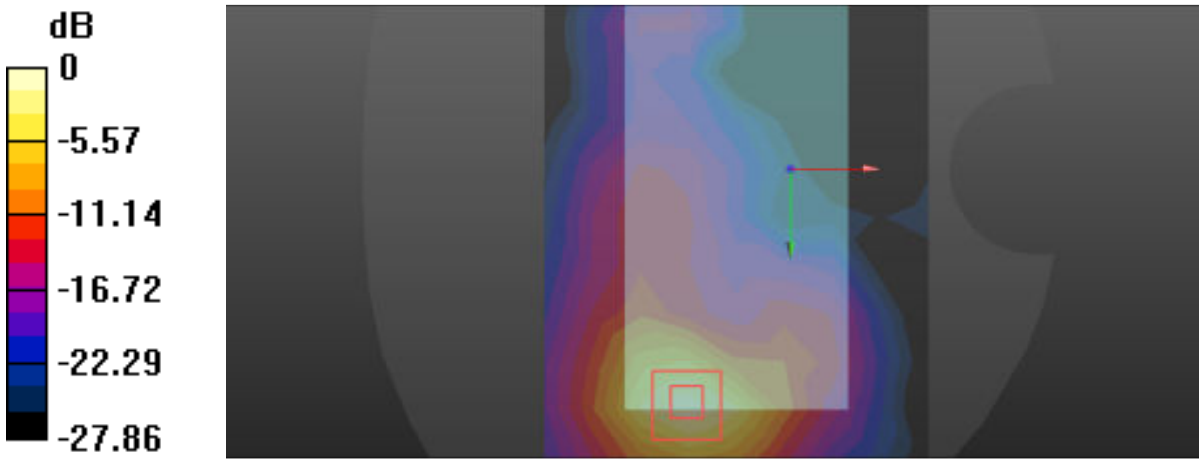
Left Side	Tilt
<p>Communication System: UID 10297 - AAA, LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK); Frequency: 2535 MHz;Duty Cycle: 1:3.81066 Medium parameters used: f = 2535 MHz; <math>\sigma = 2.01</math> S/m; <math>\epsilon_r = 36.5</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Left Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band7 Left/LTE band7 20MHz 50RB Low HSL tilt M/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.0186 W/kg</p> <p><b>Head-Section HSL LTE band7 Left/LTE band7 20MHz 50RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 2.718 V/m; Power Drift = 0.06 dB Peak SAR (extrapolated) = 0.0450 W/kg <b>SAR(1 g) = 0.020 W/kg; SAR(10 g) = 0.00918 W/kg</b> Maximum value of SAR (measured) = 0.0254 W/kg</p>	
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0 -10.00 -20.00 -30.00 -40.00 -50.00</p> </div> <div> <p>0 dB = 0.0254 W/kg = -15.95 dBW/kg</p> </div> </div>	

Right Side	Cheek
<p>Communication System: UID 0, LTE band 07 (0); Frequency: 2535 MHz; Duty Cycle: 1:1            Medium parameters used: <math>f = 2535 \text{ MHz}</math>; <math>\sigma = 2.01 \text{ S/m}</math>; <math>\epsilon_r = 36.5</math>; <math>\rho = 1000 \text{ kg/m}^3</math>            Phantom section: Right Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul>	
<p><b>Head-Section HSL LTE band7 Right/LTE band7 20MHz 50RB Low HSL touch M/Area Scan (8x13x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math>            Maximum value of SAR (measured) = 0.0280 W/kg</p>	
<p><b>Head-Section HSL LTE band7 Right/LTE band7 20MHz 50RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math>            Reference Value = 2.046 V/m; Power Drift = -0.02 dB            Peak SAR (extrapolated) = 0.0730 W/kg</p>	
<p><b>SAR(1 g) = 0.029 W/kg; SAR(10 g) = 0.019 W/kg</b>            Maximum value of SAR (measured) = 0.0333 W/kg</p>	
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p>  <p>0 -2.23 -4.46 -6.69 -8.92 -11.15</p> </div> <div style="flex-grow: 1;">  </div> </div> <p style="text-align: center;">0 dB = 0.0333 W/kg = -14.78 dBW/kg</p>	

Right Side	Tilt
<p>Communication System: UID 0, LTE band 07 (0); Frequency: 2535 MHz;Duty Cycle: 1:1 Medium parameters used: <math>f = 2535 \text{ MHz}</math>; <math>\sigma = 2.01 \text{ S/m}</math>; <math>\epsilon_r = 36.5</math>; <math>\rho = 1000 \text{ kg/m}^3</math> Phantom section: Right Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band7 Right/LTE band7 20MHz 50RB Low HSL tilt M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.0188 W/kg</p> <p><b>Head-Section HSL LTE band7 Right/LTE band7 20MHz 50RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 2.520 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 0.424 W/kg <b>SAR(1 g) = 0.035 W/kg; SAR(10 g) = 0.012 W/kg</b> Maximum value of SAR (measured) = 0.0995 W/kg</p>	
<p>0 dB = 0.0995 W/kg = -10.02 dBW/kg</p>	

**LTE (Band 7 20BW-50RB-Low/Flat)**



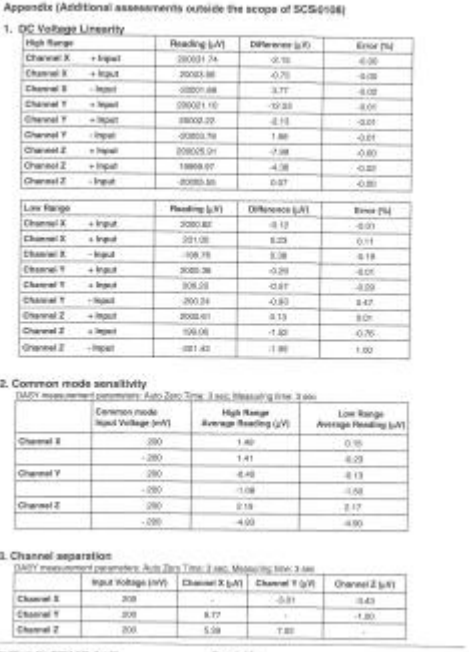
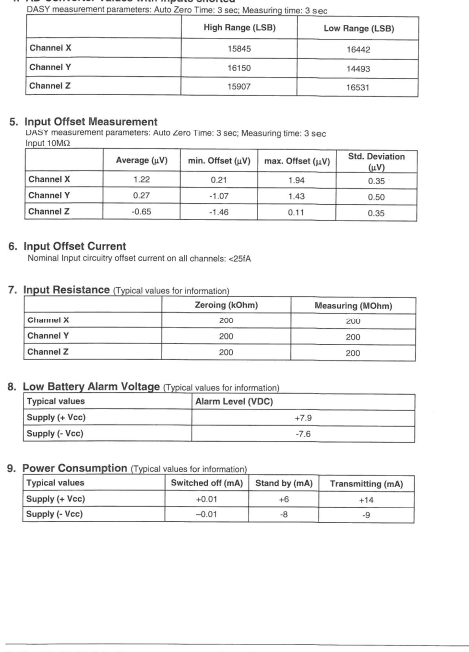
FLAT	Towards phantom
<p>Communication System: UID 10297 - AAA, LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK); Frequency: 2535 MHz; Duty Cycle: 1:3.81066 Medium parameters used: <math>f = 2535 \text{ MHz}</math>; <math>\sigma = 2.15 \text{ S/m}</math>; <math>\epsilon_r = 50.36</math>; <math>\rho = 1000 \text{ kg/m}^3</math> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(4.17, 4.17, 4.17); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band7 TP/LTE band7 TP 20MHz 50RB M 10mm/Area Scan (9x13x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math> Maximum value of SAR (measured) = 0.263 W/kg</p> <p><b>Flat-Section MSL LTE band7 TP/LTE band7 TP 20MHz 50RB M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math> Reference Value = 2.398 V/m; Power Drift = 0.16 dB Peak SAR (extrapolated) = 0.624 W/kg <b>SAR(1 g) = 0.270 W/kg; SAR(10 g) = 0.123 W/kg</b> Maximum value of SAR (measured) = 0.296 W/kg</p>	
<div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0 -6.22 -12.45 -18.67 -24.90 -31.12</p> </div> <div> <p style="text-align: center;">0 dB = 0.296 W/kg = -5.29 dBW/kg</p> </div> </div>	

FLAT	Towards ground
<p>Communication System: UID 10297 - AAA, LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK); Frequency: 2535 MHz;Duty Cycle: 1:3.81066 Medium parameters used: f = 2535 MHz; <math>\sigma = 2.15</math> S/m; <math>\epsilon_r = 50.36</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.17, 4.17, 4.17); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band7 TG/LTE band7 TG 20MHz 50RB M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.667 W/kg</p> <p><b>Flat-Section MSL LTE band7 TG/LTE band7 TG 20MHz 50RB M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 1.967 V/m; Power Drift = 0.08 dB Peak SAR (extrapolated) = 1.51 W/kg <b>SAR(1 g) = 0.613 W/kg; SAR(10 g) = 0.258 W/kg</b> Maximum value of SAR (measured) = 0.688 W/kg</p>	
 <p>0 dB = 0.688 W/kg = -1.62 dBW/kg</p>	



**ANNEX B – RELEVANT PAGES FROM CALIBRATION REPORTS**

DAE4 Sn:546

 <p>Calibration Laboratory of Science &amp; Partner Engineering AG Schedstrasse 10, 8000 Zurich, Switzerland Accreditation No.: SCS 0108 Client: SRTC (YH&amp;) Certificate No.: DAE4-546_Aug18</p> <p><b>CALIBRATION CERTIFICATE</b></p> <p>Model: DAE4-SC-001 D04 (SN: SN: 546) Calibration procedure: DA-CAL-06 v09 Calibration procedure for the data acquisition electronics (DAE) Calibration date: August 28, 2018</p> <p>This calibration certificate documents the traceability to national standards, which define the units of all measurements (SI). The measurement and the parameter with confidence probability, are given on the following pages and are part of this certificate.</p> <p>All calibrations have been conducted in the metrological facility, environmental temperature (20 ± 0.2) °C and humidity: &lt;math&gt;h = 10\%&lt;/math&gt;.</p> <p>Calibration equipment used (BIF) (refer to calibration):</p> <table border="1"> <tr> <th>Process Parameter</th> <th>UUT</th> <th>Dr Data (Certificate No.)</th> <th>Measurement Calibration</th> </tr> <tr> <td>Source: Multimeter Type 2011</td> <td>SC 1000010</td> <td>SC-1000010</td> <td>SC-10</td> </tr> <tr> <td>Reference: Multimeter</td> <td>1010</td> <td>1000010100000</td> <td>1000010100000</td> </tr> <tr> <td>Auto ZER Calibration</td> <td>SC 1000010100000</td> <td>SC-1000010100000</td> <td>SC-1000010100000</td> </tr> <tr> <td>Calibration Date (UUT)</td> <td>SC 1000010100000</td> <td>SC-1000010100000</td> <td>SC-1000010100000</td> </tr> </table> <p>Prepared by: Technical Writer Checked by: Technician Approved by: Quality Technical Manager</p> <p>Certificate No.: DAE4-046_Aug18 Page 1 of 3</p>	Process Parameter	UUT	Dr Data (Certificate No.)	Measurement Calibration	Source: Multimeter Type 2011	SC 1000010	SC-1000010	SC-10	Reference: Multimeter	1010	1000010100000	1000010100000	Auto ZER Calibration	SC 1000010100000	SC-1000010100000	SC-1000010100000	Calibration Date (UUT)	SC 1000010100000	SC-1000010100000	SC-1000010100000	 <p>Calibration Laboratory of Science &amp; Partner Engineering AG Schedstrasse 10, 8000 Zurich, Switzerland Accreditation No.: SCS 0108 Client: SRTC (YH&amp;) Certificate No.: DAE4-546_Aug18</p> <p><b>Glossary</b></p> <p>DAE: data acquisition electronics Connector angle: information used in DASY system to align probe sensor X to the robot coordinate system.</p> <p><b>Methods Applied and Interpretation of Parameters</b></p> <ul style="list-style-type: none"> <li>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.</li> <li>Connector angle: The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.</li> <li>The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.             <ul style="list-style-type: none"> <li>DC Voltage Measurement Linearity: Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.</li> <li>Common mode sensitivity: Influence of a positive or negative common mode voltage on the differential measurement.</li> <li>Channel separation: Influence of a voltage on the neighbor channels not subject to an input voltage.</li> <li>AD Converter Values with inputs shorted: Values on the internal AD converter corresponding to zero input voltage.</li> <li>Input Offset Measurement: Output voltage and statistical results over a large number of zero voltage measurements.</li> <li>Input Offset Current: Typical value for information; Maximum (charged) input offset current, not considering the input resistance.</li> <li>Input resistance: Typical value for information; DAE input resistance at the connector, during internal auto-zeroing and during measurement.</li> <li>Low Battery Alarm Voltage: Typical value for information; Below this voltage, a battery alarm signal is generated.</li> <li>Power consumption: Typical value for information; Supply currents in various operating modes.</li> </ul> </li> </ul> <p>Certificate No.: DAE4-046_Aug18 Page 2 of 3</p>																																																																																																																																																																							
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 <p><b>Appendix (Additional assessments outside the scope of SCS 0108)</b></p> <p><b>1. DC Voltage Linearity</b></p> <table border="1"> <thead> <tr> <th>High Range</th> <th>Reading [µV]</th> <th>Difference [µV]</th> <th>Error [%]</th> </tr> </thead> <tbody> <tr><td>Channel X + Input</td><td>200001.74</td><td>-0.76</td><td>-0.38</td></tr> <tr><td>Channel X - Input</td><td>200003.88</td><td>-0.76</td><td>-0.38</td></tr> <tr><td>Channel Y + Input</td><td>-002001.88</td><td>3.77</td><td>-1.89</td></tr> <tr><td>Channel Y - Input</td><td>000001.10</td><td>-19.23</td><td>-9.61</td></tr> <tr><td>Channel Z + Input</td><td>000002.22</td><td>-8.11</td><td>-4.05</td></tr> <tr><td>Channel Z - Input</td><td>-000002.78</td><td>1.88</td><td>-0.94</td></tr> <tr><td>Channel X + Input</td><td>200002.01</td><td>-7.98</td><td>-0.80</td></tr> <tr><td>Channel Y + Input</td><td>18888.97</td><td>-4.08</td><td>-0.23</td></tr> <tr><td>Channel Z + Input</td><td>-000003.85</td><td>0.87</td><td>-0.80</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Low Range</th> <th>Reading [µV]</th> <th>Difference [µV]</th> <th>Error [%]</th> </tr> </thead> <tbody> <tr><td>Channel X + Input</td><td>20000.80</td><td>-8.11</td><td>-0.91</td></tr> <tr><td>Channel X - Input</td><td>2011.00</td><td>8.23</td><td>0.11</td></tr> <tr><td>Channel Y + Input</td><td>-198.18</td><td>8.28</td><td>-4.18</td></tr> <tr><td>Channel Y - Input</td><td>2000.28</td><td>-0.28</td><td>-0.07</td></tr> <tr><td>Channel Z + Input</td><td>2000.28</td><td>-0.87</td><td>-0.29</td></tr> <tr><td>Channel Z - Input</td><td>-200.24</td><td>-0.83</td><td>-0.47</td></tr> <tr><td>Channel X + Input</td><td>20002.61</td><td>9.13</td><td>0.01</td></tr> <tr><td>Channel Y + Input</td><td>-199.06</td><td>-1.80</td><td>-0.70</td></tr> <tr><td>Channel Z + Input</td><td>-001.42</td><td>-1.86</td><td>-1.00</td></tr> </tbody> </table> <p><b>2. Common mode sensitivity</b></p> <p>UUT measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec</p> <table border="1"> <thead> <tr> <th>Channel</th> <th>Common mode Input Voltage [mV]</th> <th>High Range Average Reading [µV]</th> <th>Low Range Average Reading [µV]</th> </tr> </thead> <tbody> <tr><td rowspan="2">Channel X</td><td>+200</td><td>1.40</td><td>0.16</td></tr> <tr><td>-200</td><td>1.41</td><td>-0.23</td></tr> <tr><td rowspan="2">Channel Y</td><td>+200</td><td>-4.48</td><td>-0.13</td></tr> <tr><td>-200</td><td>-1.08</td><td>-1.58</td></tr> <tr><td rowspan="2">Channel Z</td><td>+200</td><td>0.18</td><td>0.17</td></tr> <tr><td>-200</td><td>-4.00</td><td>-0.90</td></tr> </tbody> </table> <p><b>3. 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Deviation [µV]	Channel X	1.22	0.21	1.94	0.35	Channel Y	0.27	-1.07	1.43	0.50	Channel Z	-0.65	-1.46	0.11	0.35		Zeroing (kOhm)	Measuring (MOhm)	Channel X	200	200	Channel Y	200	200	Channel Z	200	200	Typical values	Alarm Level (VDC)	Supply (+ Vcc)	+7.9	Supply (- Vcc)	-7.6	Typical values	Switched off (mA)	Stand by (mA)	Transmitting (mA)	Supply (+ Vcc)	+0.01	+6	+14	Supply (- Vcc)	-0.01	-8	-9
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DAE4 Sn:546



**4. AD-Converter Values with inputs shorted**

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	High Range (LSB)	Low Range (LSB)
Channel X	15845	16442
Channel Y	16150	14493
Channel Z	15907	16531

**5. Input Offset Measurement**

UNSY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Input (mV)	Average ( $\mu$ V)	min. Offset ( $\mu$ V)	max. Offset ( $\mu$ V)	Std. Deviation ( $\mu$ V)
Channel X	1.22	0.21	1.94	0.35
Channel Y	0.27	-1.07	1.43	0.50
Channel Z	-0.65	-1.46	0.11	0.35

**6. Input Offset Current**

Nominal input circuitry offset current on all channels:  $<-25\mu$ A

**7. Input Resistance (Typical values for information)**

	Zeroing (kOhm)	Measuring (MkOhm)
Channel X	200	200
Channel Y	200	200
Channel Z	200	200

**8. Low Battery Alarm Voltage (Typical values for information)**

Typical values	Alarm Level (VDC)
Supply (+ Vcc)	+7.9
Supply (- Vcc)	-7.6

**9. Power Consumption (Typical values for information)**

Typical values	Switched off (mA)	Stand by (mA)	Transmitting (mA)
Supply (+ Vcc)	+0.01	+6	+14
Supply (- Vcc)	-0.01	-8	-9

**DAE4 Sn:720**



**Calibration Laboratory of**  
Suzhou & Fuzhou  
Engineering AG  
Suzhou Branch: 350000 Suzhou, Jiangsu, China

Accredited by the State Accreditation Service (SAS)  
The State Accreditation Service is one of the signatories to the ILAC  
Mutual Recognition Agreement for the recognition of calibration certificates.

Accreditation No.: SCS 0196

Item: SRTC (VNA) Certificate No.: DAE4-720\_2018

**CALIBRATION CERTIFICATE**

Item: DAE4 - 30-500 MHz BW - SN: 720

Customer's description: DA CAL-02 v2P  
Calibrator/procedure for the data acquisition electronics (DAE)

Calibration date: October 31, 2018

This calibration certificate documents the traceability to national standards, when made by physical units of measurement (SI).  
The measurements and the uncertainties with confidence probability are given on the related pages and not part of the certificate.  
An evaluation has been conducted in the client's laboratory facility, measurement equipment (MPE) and uncertainty  $\pm 10\%$ .  
Calibration of measurement used (MPE) method for calibration.

Primary Standard	Q14	Use Date (Certificate No.)	Expiry Date (Certificate No.)
Calibration Equipment Type (MPE)	DAE-02 v2P	04 May 18 (DAE-02)	04 May 19 (DAE-02)

Secondary Standard	Q14	Use Date (Certificate No.)	Expiry Date (Certificate No.)
DAE-02 Calibration Unit	DAE-02-001-001-001	04 May 18 (DAE-02-001-001-001)	04 May 19 (DAE-02-001-001-001)
Calibration Equipment (MPE)	DAE-02-001-001-001	04 May 18 (DAE-02-001-001-001)	04 May 19 (DAE-02-001-001-001)

Calibration by: Name: [Signature] Position: [Signature]  
Checked by: Name: [Signature] Position: [Signature]

Measurement: [Signature] [Signature]

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

Certificate No: DAE4-720\_2018 Page 1 of 3

DAE4 Sn:720

Calibration Laboratory of  
Science & Pattern  
Engineering AG  
Inghelstrasse 10, 8000 Zurich, Switzerland

1. International Calibration  
2. Service across all languages  
3. Service systems & repairs  
4. Service Calibration Service

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The Swiss Accreditation Service is one of the signatories to the IAF  
Multilateral Agreement for the recognition of calibration certificates

Registration No.: SCS 0148

**Glossary**  
DAE: data acquisition electronics  
Connector angle: Information used in DAEY system to align probe sensor X to the radial  
coordinate system.

**Methods Applied and Interpretation of Parameters**

- DC Voltage Measurement: Calibration Factor assessed for use in DAEY 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 test inserted. Uncertainty is not required.
- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
- DC Voltage Measurement Linearity: Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.
- Common mode sensitivity: Influence of a positive or negative common mode voltage on the differential measurement.
- Channel separation: Influence of a voltage on the neighbor channels not subject to an input voltage.
- AD-Converter Values with inputs shorted: Values on the internal AD converter corresponding to zero input voltage.
- Input Offset Measurement: Output voltage and statistical results over a large number of zero voltage measurements.
- Input Offset Current: Typical value for information. Maximum channel input offset current, not considering the input resistance.
- Input resistance: Typical value for information. DAE input resistance at the connector, during internal auto-zeroing and during measurement.
- Low Battery Alarm Voltage: Typical value for information. Below this voltage, a battery alarm signal is generated.
- Power consumption: Typical value for information. Supply currents in various operating modes.

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**DC Voltage Measurement**

AD-Converter Resolution nominal  
High Range: 1.95 mV, full range: -100...+200 mV  
Low Range: 1.95 mV, full range: -1...+100 mV  
DAEY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	X	Y	Z
High Range	400.000 ± 0.001 (3σ)	404.780 ± 0.001 (3σ)	401.000 ± 0.001 (3σ)
Low Range	1.9000 ± 1.00% (3σ)	0.89007 ± 1.00% (3σ)	1.9000 ± 1.00% (3σ)

**Connector Angle**

Connector angle to be used in DAEY system	33.0 ° ± 1 °
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Certificate No: DAE4-702\_0018

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**Appendix (Additional assessments outside the scope of SCS0103)**

**1. DC Voltage Linearity**

High Range	Reading [µV]	Difference [µV]	Error (%)
Channel X + Input	20000.00	-0.03	-0.00
Channel X + Input	20000.00	1.01	0.01
Channel X - Input	-20000.00	2.16	-0.01
Channel Y + Input	20000.40	-1.44	-0.00
Channel Y + Input	20000.40	-0.36	-0.00
Channel Y - Input	-20000.00	1.72	-0.01
Channel Z + Input	20000.00	-1.00	-0.00
Channel Z + Input	20000.00	-0.07	-0.01
Channel Z - Input	-20000.00	-4.38	0.02

Low Range	Reading [µV]	Difference [µV]	Error (%)
Channel X + Input	1800.00	-0.08	-0.05
Channel X + Input	180.00	-0.40	-0.21
Channel X - Input	-198.00	-0.24	0.12
Channel Y + Input	2000.76	-0.01	-0.00
Channel Y + Input	200.00	-0.00	-0.00
Channel Y - Input	-198.00	-0.00	0.14
Channel Z + Input	2000.00	-0.00	-0.01
Channel Z + Input	106.41	-1.33	-0.89
Channel Z - Input	-200.00	-0.00	0.40

**2. Common mode sensitivity**

Common mode Input Voltage [mV]	High Range Average Reading [µV]	Low Range Average Reading [µV]
Channel X		
300	-0.00	0.72
-300	7.95	0.87
Channel Y		
300	15.00	10.80
-300	-16.00	-17.00
Channel Z		
300	-16.75	-18.00
-300	14.00	18.00

**3. Channel separation**

Channel X	Input Voltage [mV]	Channel X [µV]	Channel Y [µV]	Channel Z [µV]
Channel X	300	0.05	-0.00	0.77
Channel Y	300	8.74	-	0.77
Channel Z	300	6.38	7.01	-

Certificate No: DAE4-702\_0018

Page 4 of 5

**4. AD-Converter Values with inputs shorted**

DAEY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	High Range [µV]	Low Range [µV]
Channel X	18104	18021
Channel Y	19178	18008
Channel Z	19404	18174

**5. Input Offset Measurement**

DAEY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Input Voltage	Average [µV]	min. Offset [µV]	max. Offset [µV]	Std. Deviation [µV]
Channel X	0.70	-1.14	0.77	0.80
Channel Y	-0.03	-1.04	-0.90	0.43
Channel Z	-0.18	-0.07	1.76	0.98

**6. Input Offset Current**

Nominal input circuitry offset current on all channels: <35nA

**7. Input Resistance (Typical values for information)**

	Zoning [GOhm]	Measuring [MOhm]
Channel X	200	200
Channel Y	200	200
Channel Z	200	200

**8. Low Battery Alarm Voltage (Typical values for information)**

Typical values	Alarm Level [VDC]
Supply (+-Vcc)	+1.8
Supply (-Vcc)	-7.0

**9. Power Consumption (Typical values for information)**

Typical values	Realized off [mW]	Standby [mW]	Transmitting [mW]
Supply (+-Vcc)	18.00	<0	14
Supply (-Vcc)	-0.01	0	0

Certificate No: DAE4-702\_0018

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ES3DV3 Sn:3127

Calibration Laboratory of  
Sohmic & Partner  
Engineering AG  
Zürcherstrasse 8, 5400 Eins, Switzerland

Accredited by the Swiss Accreditation Service (SAS)  
The Swiss Accreditation Service is one of the signatories to the EA  
Multilateral Agreement for the Recognition of Calibration Certificates

Client: **SRTC (MWS)**      Calibration: **ES3DV3, Aug16**

**CALIBRATION CERTIFICATE**

Client: **ES3DV3 SN:3127**

Calibration performed: **GA CAL 21-06 DA CAL 12-04 SA CAL 22-06 GA CAL 25-06**  
Calibration procedure for sensors E-Field probes

Calibration date: **August 28, 2016**

The calibration certificate guarantees the conformity to national standards, unless stated by special conditions (restrictions).  
The requirements and the conditions are verified by providing the given certificate data and are part of the contract.

All calibrations have been conducted in the Client Laboratory facility, unless indicated otherwise (SAS 1.1.1) and hereby is valid.

Calibration Requirements (SAS 1.1.1) unless indicated otherwise:

Quantity	Symbol	Unit	Calibration Certificate No.	Subsequent Calibration
Length	L	m	1011	Ann 1.1
Force	F	N	1011	Ann 1.1
Mass	m	kg	1011	Ann 1.1
Temperature	T	°C	1011	Ann 1.1
Reference length	L <sub>ref</sub>	m	1011	Ann 1.1
Reference mass	m <sub>ref</sub>	kg	1011	Ann 1.1
Reference force	F <sub>ref</sub>	N	1011	Ann 1.1
Reference temperature	T <sub>ref</sub>	°C	1011	Ann 1.1
Reference length	L <sub>ref</sub>	m	1011	Ann 1.1
Reference mass	m <sub>ref</sub>	kg	1011	Ann 1.1
Reference force	F <sub>ref</sub>	N	1011	Ann 1.1
Reference temperature	T <sub>ref</sub>	°C	1011	Ann 1.1

Calibrated by: **Andreas Schmid**      Laboratory Technician      Signature: *[Signature]*

Approved by: **Andreas Schmid**      Technical Manager      Signature: *[Signature]*

This calibration certificate and the test results are valid only if accompanied by the original report of the laboratory.

Client: August 28, 2016

Certificate No. **ES3DV3\_Aug16**      Page 1 of 10

Calibration Laboratory of  
Sohmic & Partner  
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Client: **SRTC (MWS)**      Calibration: **ES3DV3, Aug16**

**Calibration**

Calibration is performed according to the following standards:

- IEC 61010-1:2010 "Safety Requirements for Designing the Protection of Persons Against Electric Shock"
- IEC 61010-2-010:2010 "Safety Requirements for Designing the Protection of Persons Against Electric Shock"
- IEC 61010-2-020:2010 "Safety Requirements for Designing the Protection of Persons Against Electric Shock"
- IEC 61010-2-030:2010 "Safety Requirements for Designing the Protection of Persons Against Electric Shock"
- IEC 61010-2-040:2010 "Safety Requirements for Designing the Protection of Persons Against Electric Shock"
- IEC 61010-2-050:2010 "Safety Requirements for Designing the Protection of Persons Against Electric Shock"
- IEC 61010-2-060:2010 "Safety Requirements for Designing the Protection of Persons Against Electric Shock"
- IEC 61010-2-070:2010 "Safety Requirements for Designing the Protection of Persons Against Electric Shock"
- IEC 61010-2-080:2010 "Safety Requirements for Designing the Protection of Persons Against Electric Shock"
- IEC 61010-2-090:2010 "Safety Requirements for Designing the Protection of Persons Against Electric Shock"
- IEC 61010-2-100:2010 "Safety Requirements for Designing the Protection of Persons Against Electric Shock"
- IEC 61010-2-110:2010 "Safety Requirements for Designing the Protection of Persons Against Electric Shock"
- IEC 61010-2-120:2010 "Safety Requirements for Designing the Protection of Persons Against Electric Shock"
- IEC 61010-2-130:2010 "Safety Requirements for Designing the Protection of Persons Against Electric Shock"
- IEC 61010-2-140:2010 "Safety Requirements for Designing the Protection of Persons Against Electric Shock"
- IEC 61010-2-150:2010 "Safety Requirements for Designing the Protection of Persons Against Electric Shock"
- IEC 61010-2-160:2010 "Safety Requirements for Designing the Protection of Persons Against Electric Shock"
- IEC 61010-2-170:2010 "Safety Requirements for Designing the Protection of Persons Against Electric Shock"
- IEC 61010-2-180:2010 "Safety Requirements for Designing the Protection of Persons Against Electric Shock"
- IEC 61010-2-190:2010 "Safety Requirements for Designing the Protection of Persons Against Electric Shock"
- IEC 61010-2-200:2010 "Safety Requirements for Designing the Protection of Persons Against Electric Shock"

Methods Applied and Interpretation of Parameters:

- IEC 61010-1:2010 "Safety Requirements for Designing the Protection of Persons Against Electric Shock"
- IEC 61010-2-010:2010 "Safety Requirements for Designing the Protection of Persons Against Electric Shock"
- IEC 61010-2-020:2010 "Safety Requirements for Designing the Protection of Persons Against Electric Shock"
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- IEC 61010-2-120:2010 "Safety Requirements for Designing the Protection of Persons Against Electric Shock"
- IEC 61010-2-130:2010 "Safety Requirements for Designing the Protection of Persons Against Electric Shock"
- IEC 61010-2-140:2010 "Safety Requirements for Designing the Protection of Persons Against Electric Shock"
- IEC 61010-2-150:2010 "Safety Requirements for Designing the Protection of Persons Against Electric Shock"
- IEC 61010-2-160:2010 "Safety Requirements for Designing the Protection of Persons Against Electric Shock"
- IEC 61010-2-170:2010 "Safety Requirements for Designing the Protection of Persons Against Electric Shock"
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Client: August 28, 2016

Certificate No. **ES3DV3\_Aug16**      Page 2 of 10

ES3DV3 - SN:3127      August 28, 2016

**Probe ES3DV3**

**SN:3127**

Manufactured: July 11, 2006  
Calibrated: August 28, 2016

Calibrated for DASY/EASY Systems  
(Note: not compatible with GAG-2 system)

Certificate No. **ES3DV3\_Aug16**      Page 3 of 10

ES3DV3 - SN:3127      August 28, 2016

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

**Basic Calibration Parameters**

Parameter	Value	Unit
Resistance	1.20	Ω
Inductance	101.0	nH
Capacitance	101.0	pF

**Mechanical Calibration Parameters**

Parameter	Value	Unit
Length	1.20	m
Force	1.20	N
Mass	1.20	kg
Temperature	1.20	°C
Reference length	1.20	m
Reference mass	1.20	kg
Reference force	1.20	N
Reference temperature	1.20	°C

Note: For details of UIC parameters see Appendix.

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%.

Client: August 28, 2016

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ES3DV3 Sn:3127

ES3DV3-3N3127 August 29, 2018

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

Calibration Parameter Determined in Head Tissue Simulating Media

F(MHz)	Relative Permittivity <sup>1)</sup>	Conductivity <sup>2)</sup> (S/m)	Coeff. X	Coeff. Y	Coeff. Z	Apex <sup>3)</sup>	Depth <sup>4)</sup> (mm)	Unc. (%)
500	43.3	0.07	8.74	8.74	8.74	0.21	2.30	±13.3%
750	41.8	0.08	8.58	8.58	8.58	0.42	1.37	±12.2%
800	41.5	0.07	8.58	8.22	8.20	0.54	1.41	±12.0%
1450	40.5	1.28	8.44	8.44	8.44	0.90	1.88	±12.0%
1870	38.0	1.45	8.15	8.15	8.15	0.90	1.18	±12.0%
2000	40.0	1.42	8.11	8.11	8.11	0.88	1.28	±12.0%
2380	39.9	1.47	8.03	8.03	8.03	0.80	1.19	±12.2%
2450	39.2	1.80	8.81	8.81	8.81	0.67	1.38	±12.2%
2600	39.8	1.86	8.40	8.48	8.48	0.73	1.38	±12.3%

<sup>1)</sup> Frequency validity above 80 MHz of a 160 MHz only applies to DASY-E4 exclusive (see Page 2), also it is restricted to 300 MHz. The uncertainty in the RFD of the Coeff. uncertainty at 1000MHz frequency and the uncertainty for the indicated frequency point. Frequency validity above 300 MHz is ±10.2%, 400-500 MHz for local measurements at 30, 60, 120, 180 and 220 MHz respectively. Above 2.0 GHz frequency validity can be measured to ±10.4%.  
<sup>2)</sup> At frequencies below 3 GHz, the validity of tissue conductivity is not to be relied to a 10% measurement accuracy and a typical measured SLL value. At frequencies above 3 GHz, the validity of tissue parameters is not to be relied to a 10% uncertainty in the RFD of the Coeff. uncertainty for individual tissue calibration.  
<sup>3)</sup> Apical depth and diameter (Apex-Diameter) are not to be relied to a 10% uncertainty in the RFD of the Coeff. uncertainty for individual tissue calibration.  
<sup>4)</sup> Apical depth and diameter (Apex-Diameter) are not to be relied to a 10% uncertainty in the RFD of the Coeff. uncertainty for individual tissue calibration.

ES3DV3-3N3127 August 29, 2018

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

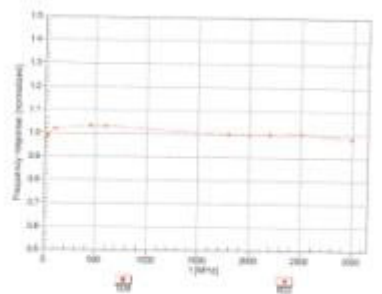
Calibration Parameter Determined in Body Tissue Simulating Media

F(MHz)	Relative Permittivity <sup>1)</sup>	Conductivity <sup>2)</sup> (S/m)	Coeff. X	Coeff. Y	Coeff. Z	Apex <sup>3)</sup>	Depth <sup>4)</sup> (mm)	Unc. (%)
400	56.7	0.34	6.38	6.38	6.38	0.12	2.50	±13.3%
750	55.0	0.08	6.72	6.12	6.12	0.40	1.14	±12.2%
800	55.0	1.08	6.15	6.30	6.30	0.40	1.51	±12.0%
1450	54.0	1.30	6.20	6.20	6.20	0.74	1.21	±12.0%
1910	53.0	1.30	6.30	6.30	6.30	0.43	1.09	±12.2%
3000	53.0	1.81	6.80	6.80	6.80	0.58	1.48	±12.2%
2300	52.9	1.81	6.43	6.03	6.03	0.40	1.24	±12.2%
2450	52.7	1.88	6.38	6.38	6.38	0.71	1.22	±12.0%
2600	52.6	2.18	6.17	6.17	6.17	0.60	1.11	±12.0%

<sup>1)</sup> Frequency validity above 80 MHz of a 160 MHz only applies to DASY-E4 exclusive (see Page 2), also it is restricted to 300 MHz. The uncertainty in the RFD of the Coeff. uncertainty at 1000MHz frequency and the uncertainty for the indicated frequency point. Frequency validity above 300 MHz is ±10.2%, 400-500 MHz for local measurements at 30, 60, 120, 180 and 220 MHz respectively. Above 2.0 GHz frequency validity can be measured to ±10.4%.  
<sup>2)</sup> At frequencies below 3 GHz, the validity of tissue conductivity is not to be relied to a 10% measurement accuracy and a typical measured SLL value. At frequencies above 3 GHz, the validity of tissue parameters is not to be relied to a 10% uncertainty in the RFD of the Coeff. uncertainty for individual tissue calibration.  
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ES3DV3-3N3127 August 29, 2018

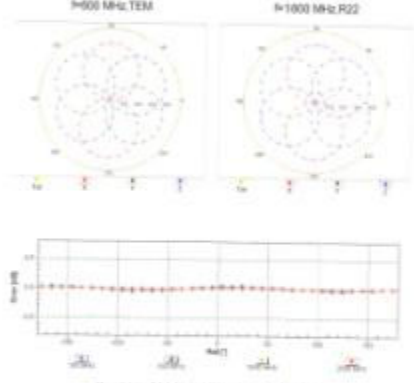
Frequency Response of E-Field  
(TEM-Cell:R119 EXL, Waveguide: R22)



Uncertainty of Frequency Response of E-Field: ±4.8% (k=2)

ES3DV3-3N3127 August 29, 2018

Receiving Pattern (θ), θ = 0°



Uncertainty of Axial Distance Measurement: ±0.25% (k=2)

ES3DV3 Sn:3127

<p>ES3DV3 - SN:3127 August 28, 2018</p> <h3>Dynamic Range (SAR<sub>max</sub>)</h3> <p>(TEM test, f<sub>max</sub> = 1500 MHz)</p> <p>Certificate No: ES3DV3_Aug18 Page 8 of 12</p>	<p>ES3DV3 - SN:3127 August 28, 2018</p> <h3>Conversion Factor Assessment</h3> <p>f = 1500 MHz, WLLS: P2 (L<sub>max</sub>)</p> <h3>Deviation from isotropy in Liquid</h3> <p>Error (0, 0), f = 1500 MHz</p> <p>Certificate No: ES3DV3_Aug18 Page 10 of 12</p>																																																																																																																																																																																																																																								
<p>ES3DV3 - SN:3127 August 28, 2018</p> <h3>DASY/EASY - Parameters of Probe: ES3DV3 - SN:3127</h3> <p><b>Other Probe Parameters</b></p> <table border="1"> <tr><td>Sensor Arrangement</td><td>Triangular</td></tr> <tr><td>Cone/Angle (°)</td><td>-15.8</td></tr> <tr><td>Mechanical Surface Detection Mode</td><td>90MHz</td></tr> <tr><td>Optical Surface Detection Mode</td><td>disabled</td></tr> <tr><td>Probe Overall Length</td><td>327 mm</td></tr> <tr><td>Probe Body Diameter</td><td>10 mm</td></tr> <tr><td>Tip Length</td><td>18 mm</td></tr> <tr><td>Tip Diameter</td><td>4 mm</td></tr> <tr><td>Probe Tip to Sensor X Calibration Point</td><td>2 mm</td></tr> <tr><td>Probe Tip to Sensor Y Calibration Point</td><td>2 mm</td></tr> <tr><td>Probe Tip to Sensor Z Calibration Point</td><td>2 mm</td></tr> <tr><td>Recommended Measurement Distance from Surface</td><td>3 mm</td></tr> </table> <p>Certificate No: ES3DV3_Aug18 Page 11 of 12</p>	Sensor Arrangement	Triangular	Cone/Angle (°)	-15.8	Mechanical Surface Detection Mode	90MHz	Optical Surface Detection Mode	disabled	Probe Overall Length	327 mm	Probe Body Diameter	10 mm	Tip Length	18 mm	Tip Diameter	4 mm	Probe Tip to Sensor X Calibration Point	2 mm	Probe Tip to Sensor Y Calibration Point	2 mm	Probe Tip to Sensor Z Calibration Point	2 mm	Recommended Measurement Distance from Surface	3 mm	<p>ES3DV3 - SN:3127 August 28, 2018</p> <h3>Appendix: Modulation Calibration Parameters</h3> <table border="1"> <thead> <tr> <th>dB</th> <th>Communication System Name</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>N/A</th> <th>180°</th> </tr> <tr> <th>dB</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>dB</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>DSS</td> <td>X</td> <td>0.0</td> <td>0.0</td> <td>1.0</td> <td>0.00</td> <td>100.0</td> </tr> <tr> <td>100%</td> <td>IEEE 802.11n MFD 4 QAM (5885.1 MHz)</td> <td>Y</td> <td>8.0</td> <td>0.0</td> <td>1.0</td> <td>0.00</td> <td>100.0</td> </tr> <tr> <td>100%</td> 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4 QAM (5885.1 MHz)</td> <td>X</td> <td>5.50</td> <td>8.88</td> <td>18.8</td> <td>0.97</td> <td>100.0</td> </tr> <tr> <td>100%</td> <td>IEEE 802.11n MFD 4 QAM (5885.1 MHz)</td> <td>Y</td> <td>5.08</td> <td>8.88</td> <td>18.7</td> <td>0.97</td> <td>100.0</td> </tr> <tr> <td>100%</td> <td>IEEE 802.11n MFD 4 QAM (5885.1 MHz)</td> <td>Z</td> <td>4.80</td> <td>8.85</td> <td>18.3</td> <td>0.97</td> <td>100.0</td> </tr> <tr> <td>100%</td> <td>IEEE 802.11n MFD 4 QAM (5885.1 MHz)</td> <td>X</td> <td>4.57</td> <td>8.85</td> <td>18.3</td> <td>0.97</td> <td>100.0</td> </tr> <tr> <td>100%</td> <td>IEEE 802.11n MFD 4 QAM (5885.1 MHz)</td> <td>Y</td> <td>4.93</td> <td>8.83</td> <td>18.4</td> <td>0.97</td> <td>100.0</td> </tr> <tr> <td>100%</td> <td>IEEE 802.11n MFD 4 QAM (5885.1 MHz)</td> <td>Z</td> <td>4.87</td> <td>8.83</td> <td>18.2</td> <td>0.97</td> <td>100.0</td> </tr> <tr> <td>100%</td> <td>IEEE 802.11n MFD 4 QAM (5885.1 MHz)</td> <td>X</td> <td>6.11</td> <td>8.70</td> <td>20.2</td> 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802.11n MFD 4 QAM (5885.1 MHz)	Z	6.20	8.73	20.0	0.98	100.0	100%	IEEE 802.11n MFD 4 QAM (5885.1 MHz)	X	6.11	8.73	20.0	0.98	100.0	100%	IEEE 802.11n MFD 4 QAM (5885.1 MHz)	Y	6.39	8.70	19.8	0.98	100.0	100%	IEEE 802.11n MFD 4 QAM (5885.1 MHz)	Z	6.83	8.70	19.7	0.98	100.0	100%	IEEE 802.11n MFD 4 QAM (5885.1 MHz)	X	5.71	8.73	19.8	0.98	100.0	100%	IEEE 802.11n MFD 4 QAM (5885.1 MHz)	Y	6.28	8.73	19.8	0.98	100.0	100%	IEEE 802.11n MFD 4 QAM (5885.1 MHz)	Z	6.06	8.71	19.8	0.98	100.0	100%	IEEE 802.11n MFD 4 QAM (5885.1 MHz)	X	5.50	8.88	18.8	0.97	100.0	100%	IEEE 802.11n MFD 4 QAM (5885.1 MHz)	Y	5.08	8.88	18.7	0.97	100.0	100%	IEEE 802.11n MFD 4 QAM (5885.1 MHz)	Z	4.80	8.85	18.3	0.97	100.0	100%	IEEE 802.11n MFD 4 QAM (5885.1 MHz)	X	4.57	8.85	18.3	0.97	100.0	100%	IEEE 802.11n MFD 4 QAM (5885.1 MHz)	Y	4.93	8.83	18.4	0.97	100.0	100%	IEEE 802.11n MFD 4 QAM (5885.1 MHz)	Z	4.87	8.83	18.2	0.97	100.0	100%	IEEE 802.11n MFD 4 QAM (5885.1 MHz)	X	6.11	8.70	20.2	0.98	100.0	100%	IEEE 802.11n MFD 4 QAM (5885.1 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Probe Overall Length	327 mm																																																																																																																																																																																																																																								
Probe Body Diameter	10 mm																																																																																																																																																																																																																																								
Tip Length	18 mm																																																																																																																																																																																																																																								
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EX3DV4 Sn:3708

Calibration Laboratory of  
Suzhou & Partner  
Engineering All  
Registration No. 944 Series, Suzhou

Accredited by the State Administration Service (SAS)  
The State Administration Service is one of the agencies in the SA  
Mutual Recognition Agreement for the recognition of calibration certificates

Client: SRTC (V944) Certificate No.: EX3-DV4\_Sn3708

### CALIBRATION CERTIFICATE

Client: EX3DV4-SN3708

Calibration certificate: QA-CAL-01-01 QA-CAL-11-01 QA-CAL-20-01 QA-CAL-25-01  
Calibration procedure for omnidirectional E-Field probes

Calibration date: November 10, 2016

The calibration certificate documents the accuracy of reference standards, which values are displayed only if requested by the client. The measurements and the uncertainties with reference standards are given on the following pages and are per article 6.4.10.2.

All calibration items have been calibrated in the fixed laboratory facility, measurement environment (20 ± 0.2 °C, and humidity < 75%).

Calibration Equipment used: SAS71616 for calibration.

Equipment	Model	Serial Number	Calibration Certificate No.	Calibration Date
Field probe	SA-1001	05-11111	SA-CAL-11-01	2016-10-25
Field probe	SA-1001	05-11112	SA-CAL-11-01	2016-10-25
Field probe	SA-1001	05-11113	SA-CAL-11-01	2016-10-25
Field probe	SA-1001	05-11114	SA-CAL-11-01	2016-10-25
Field probe	SA-1001	05-11115	SA-CAL-11-01	2016-10-25
Field probe	SA-1001	05-11116	SA-CAL-11-01	2016-10-25
Field probe	SA-1001	05-11117	SA-CAL-11-01	2016-10-25
Field probe	SA-1001	05-11118	SA-CAL-11-01	2016-10-25
Field probe	SA-1001	05-11119	SA-CAL-11-01	2016-10-25
Field probe	SA-1001	05-11120	SA-CAL-11-01	2016-10-25

Calibration Certificate No.: EX3-DV4\_Sn3708

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Calibration Laboratory of  
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Mutual Recognition Agreement for the recognition of calibration certificates

Client: SRTC (V944) Certificate No.: EX3-DV4\_Sn3708

### Glossary:

TS: Measurement system  
NORMA, u, v: Uncertainty in the repeat  
Coverage: Coverage factor (k=2), which of the TS signal  
A, E, E, E: Measurement system  
Repeatability: A value obtained at one place in the place normal to probe axis (at measurement corner),  
i.e., 90° to normal to probe axis  
Connector Angle: Information used in CAS71 system to align probe system. It is the robot coordinate system.

**Calibration is Performed According to the Following Standards:**

- IEC 61010-1:2011: Safety requirements for measuring the field (Qualification level 2)
- IEC 61010-2-01:2011: Safety requirements for measuring the field (Qualification level 2)
- IEC 61010-2-02:2011: Safety requirements for measuring the field (Qualification level 2)
- IEC 61010-2-03:2011: Safety requirements for measuring the field (Qualification level 2)
- IEC 61010-2-04:2011: Safety requirements for measuring the field (Qualification level 2)
- IEC 61010-2-05:2011: Safety requirements for measuring the field (Qualification level 2)
- IEC 61010-2-06:2011: Safety requirements for measuring the field (Qualification level 2)
- IEC 61010-2-07:2011: Safety requirements for measuring the field (Qualification level 2)
- IEC 61010-2-08:2011: Safety requirements for measuring the field (Qualification level 2)
- IEC 61010-2-09:2011: Safety requirements for measuring the field (Qualification level 2)
- IEC 61010-2-10:2011: Safety requirements for measuring the field (Qualification level 2)
- IEC 61010-2-11:2011: Safety requirements for measuring the field (Qualification level 2)
- IEC 61010-2-12:2011: Safety requirements for measuring the field (Qualification level 2)
- IEC 61010-2-13:2011: Safety requirements for measuring the field (Qualification level 2)
- IEC 61010-2-14:2011: Safety requirements for measuring the field (Qualification level 2)
- IEC 61010-2-15:2011: Safety requirements for measuring the field (Qualification level 2)
- IEC 61010-2-16:2011: Safety requirements for measuring the field (Qualification level 2)
- IEC 61010-2-17:2011: Safety requirements for measuring the field (Qualification level 2)
- IEC 61010-2-18:2011: Safety requirements for measuring the field (Qualification level 2)
- IEC 61010-2-19:2011: Safety requirements for measuring the field (Qualification level 2)
- IEC 61010-2-20:2011: Safety requirements for measuring the field (Qualification level 2)

**Methods Applied and Interpretation of Parameters:**

- IEC 61010-2-01:2011: Safety requirements for measuring the field (Qualification level 2)
- IEC 61010-2-02:2011: Safety requirements for measuring the field (Qualification level 2)
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- IEC 61010-2-20:2011: Safety requirements for measuring the field (Qualification level 2)

Calibration Certificate No.: EX3-DV4\_Sn3708

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EX3DV4 - SN3708

November 10, 2016

## Probe EX3DV4

### SN:3708

Manufactured: July 21, 2009  
Calibrated: November 10, 2016

Calibrated for DAS7/EASY Systems  
(Probe: non compatible with DAS72 systems)

Calibration Certificate No.: EX3-DV4\_Sn3708

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EX3DV4 - SN3708

November 10, 2016

### DASY/EASY - Parameters of Probe: EX3DV4 - SN-3708

**Basic Calibration Parameters**

Parameter	Value	Uncertainty	Coverage	Units
Norm. Gain (DC)	1.00	0.01	95%	-
DCP (DC)	10.0	0.1	95%	V/m

**Multiplication Calibration Parameters**

SN	System	Model	Serial	Gain	Uncertainty	Coverage	Units
1	DC	SA-1001	05-11111	1.00	0.01	95%	-
2	DC	SA-1001	05-11112	1.00	0.01	95%	-
3	DC	SA-1001	05-11113	1.00	0.01	95%	-
4	DC	SA-1001	05-11114	1.00	0.01	95%	-
5	DC	SA-1001	05-11115	1.00	0.01	95%	-
6	DC	SA-1001	05-11116	1.00	0.01	95%	-
7	DC	SA-1001	05-11117	1.00	0.01	95%	-
8	DC	SA-1001	05-11118	1.00	0.01	95%	-
9	DC	SA-1001	05-11119	1.00	0.01	95%	-
10	DC	SA-1001	05-11120	1.00	0.01	95%	-

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%.

Calibration Certificate No.: EX3-DV4\_Sn3708

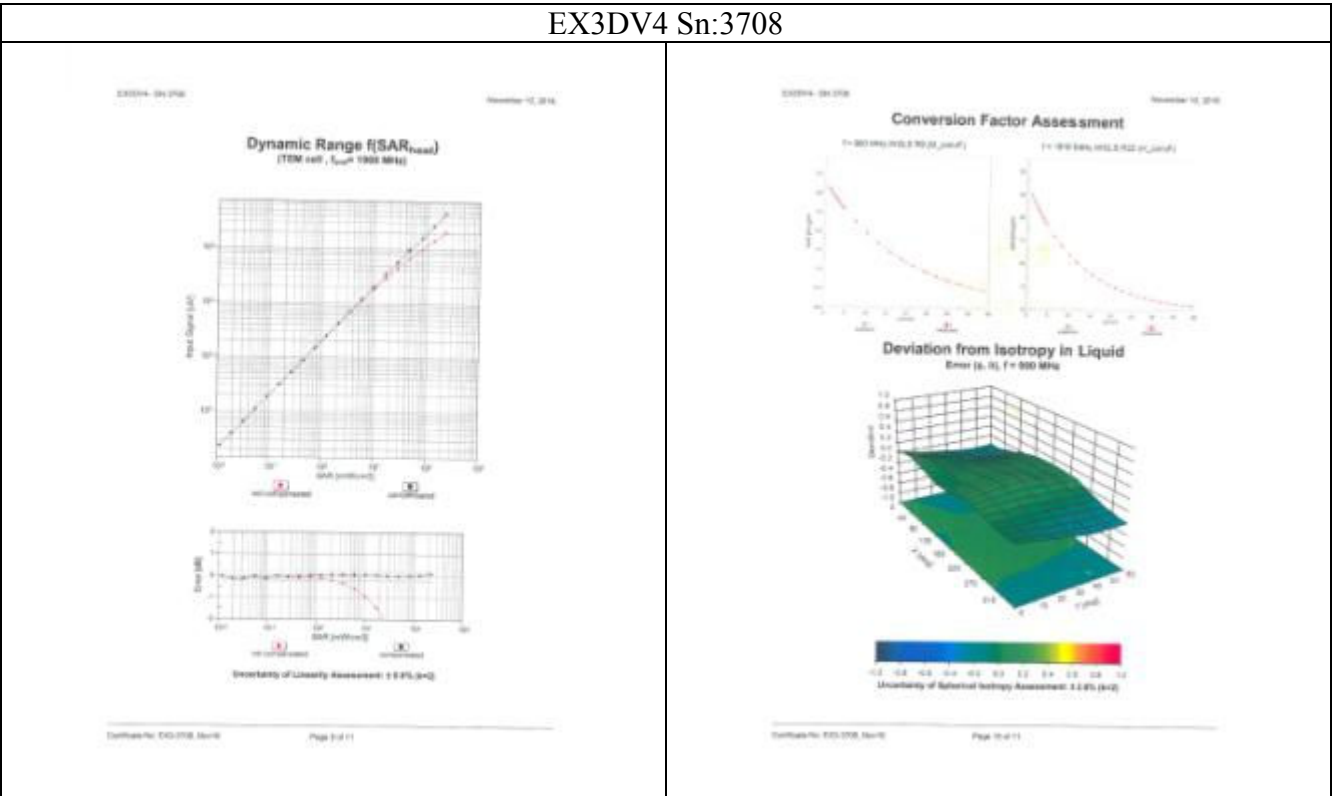
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EX3DV4 Sn:3708



EX3DV4 - SN:3708 November 10, 2016

**DASY/EASY - Parameters of Probe: EX3DV4 - SN:3708**

**Other Probe Parameters**

Sensor Arrangement	Triangular
Swivel Angle (°)	-1.3
Mechanical Surface Detector Holes	etched
Optical Surface Detector Holes	drilled
Probe Overall Length	321 mm
Probe Body Diameter	10 mm
Tip Length	8 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Catheter Hole	1 mm
Probe Tip to Sensor Y Catheter Hole	1 mm
Probe Tip to Sensor Z Catheter Hole	1 mm
Recommended Measurement Distance from Surface	1.4 mm

EX3DV4 - SN:3708 November 10, 2016 Page 11 of 11

D750V3 Sn:1101

Calibration Laboratory of  
Schmetz & Partner  
Engineering AG  
Bergstr. 10, 40549 Lohr, Germany

Accredited by the State Accreditation Service (SAS)  
The State Accreditation Service is one of the signatories to the EU  
Mutual Recognition Agreement for the recognition of calibration activities.

Client: **SRTC (YH)** Certificate: **D750V3-1101\_0018**

Accreditation No.: **SCS 0108**

### CALIBRATION CERTIFICATE

Name: **D750V3 - 0N1101**

Calibration procedure: **EM CAL-05 v9  
Calibration procedure for dipole validation kits above 700 MHz**

Calibration date: **October 24, 2018**

This calibration certificate documents the feasibility of national standards, which include the measurement of the measurement and the uncertainty with calibration capability are given in the following pages and/or part of the certificate.

All calibration has been conducted in the stated laboratory facility environment conforming to IEC 61010, uncertainty  $\pm 10\%$ .

Calibration equipment used (METS) used for calibration:

Primary Standards	SI	Cal. Date (Certificate No.)	Expiration/Calibration
Power source 100W	SI 100W/70	26-Apr-18 (No. 211-00000000)	Apr-17
Power source 10W/20W	SI 10W/20	26-Apr-18 (No. 211-000000)	Apr-17
Power source 10W/10W	SI 10W/10	26-Apr-18 (No. 211-000000)	Apr-17
Reference EM field standard	SI 2000/2000	26-Apr-18 (No. 211-000000)	Apr-17
Type-A impedance standard	SI 50/1.1/50/20	26-Apr-18 (No. 211-000000)	Apr-17
Reference Plane 220V/50	SI 220V	15-Jul-18 (No. 180-1900_2018)	Jul-18
SAR1	SI 301	15-Jul-18 (No. 180-1900_2018)	Jul-18

Secondary Standards	SI	Check Date in House	Expiration/Check
Power source 100W/20W	SI 100W/20/70	27-Oct-18 (in House check) (No. 18)	in-house check (No. 18)
Power source 10W/20W	SI 10W/20/20	27-Oct-18 (in House check) (No. 18)	in-house check (No. 18)
Power source 10W/10W	SI 10W/10/10	27-Oct-18 (in House check) (No. 18)	in-house check (No. 18)
Reference EM field standard	SI 2000/2000	16-Jul-18 (in House check) (No. 18)	in-house check (No. 18)
Reference Plane 220V/50	SI 220V/50/50	16-Jul-18 (in House check) (No. 18)	in-house check (No. 18)

Customer: **YH** Facility: **Factory** Signature: *[Signature]*

Calibrated by: **Stephane** Laboratory Technician

Approved by: **Stephane** Technical Manager

This calibration certificate shall not be reproduced, copied or in any way without written approval of the laboratory.

Certificate No.: D750V3-1101\_0018 Page 1 of 8

Calibration Laboratory of  
Schmetz & Partner  
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Client: **SRTC (YH)** Certificate: **D750V3-1101\_0018**

Accreditation No.: **SCS 0108**

Glossary:  
TSL: **Issue simulating input**  
Cm/F: **sensitivity in TSL (NORM 8.2.2)**  
N/A: **not applicable or not measured**

Calibration is performed according to the following standards:

- IEEE Std 1289-2013, "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 300 MHz to 3 GHz)", February 2009
- IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- 408 000004, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:  
a) DAS145 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 apertures in position in lead 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 transferred 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.: D750V3-1101\_0018 Page 2 of 8

### Measurement Conditions

DASY system configuration, as per IEC 62209-1:2010

DASY Version	DASY5	VIS 3.0
Hydrophantom	Advanced Configuration	
Phantom	Mobile Flat Phantom	
Distance Dipole Center - TSL	10 mm	with spacer
Spoke Scan Resolution	0.5, 0.5, 0.5 mm	
Frequency	710 MHz $\pm$ 1 MHz	

### Head TSL parameters

The following parameters and calibrations were applied:

Measured Head TSL parameters	Temperature	Feasibility	Conductivity
Measured Head TSL parameters	22.0 °C	21.0	0.08 mS/cm
Head TSL temperature change during test	0.0 ± 0.2 °C	0.1 ± 0.5 %	0.02 mS/cm $\pm$ 0 %
Head TSL temperature change during test	$\pm$ 0.3 °C	—	—

### SAR result with Head TSL

SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	0.17 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	<b>0.19 W/kg <math>\pm</math> 15.6 % (k=2)</b>

SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	Condition	
SAR measured	250 mW input power	1.36 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	<b>1.28 W/kg <math>\pm</math> 16.6 % (k=2)</b>

### Body TSL parameters

The following parameters and calibrations were applied:

Measured Body TSL parameters	Temperature	Feasibility	Conductivity
Measured Body TSL parameters	22.0 °C	22.0	0.08 mS/cm
Measured Body TSL parameters	0.0 ± 0.2 °C	0.0 ± 0.5 %	0.02 mS/cm $\pm$ 0 %
Body TSL temperature change during test	$\pm$ 0.3 °C	—	—

### SAR result with Body TSL

SAR averaged over 1 cm <sup>3</sup> (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	0.17 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	<b>0.60 W/kg <math>\pm</math> 17.8 % (k=2)</b>

SAR averaged over 10 cm <sup>3</sup> (10 g) of Body TSL	Condition	
SAR measured	250 mW input power	1.46 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	<b>1.72 W/kg <math>\pm</math> 16.6 % (k=2)</b>

Certificate No.: D750V3-1101\_0018 Page 3 of 8

### Appendix (Additional assessments outside the scope of SCS 0108)

#### Antenna Parameters with Head TSL

Impedance, normalized to feed point	32.4 $\pm$ 0.2 j
Return loss	-32.8 dB

#### Antenna Parameters with Body TSL

Impedance, normalized to feed point	32.9 $\pm$ 0.2 j
Return loss	-30.9 dB

#### General Antenna Parameters and Design

Electrical Delay (one-direction)	1.026 ns
----------------------------------	----------

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

The dipole is made of standard serrated copper tubes. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited to DC signals. On some of the dipoles, small air gaps are added to the dipole arms in order to improve matching when used according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The measurement length is not according to the standard.

No excessive force should 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	SPTAG
Manufactured on	July 25, 2018

Certificate No.: D750V3-1101\_0018 Page 4 of 8

D750V3 Sn:1101

DASY5 Validation Report for Head TSL

Date: 24.10.2016

Test Laboratory: SP5AG, Zurich, Switzerland

DCU: Dipole 750 MHz, Type: D750V3, Serial: D750V3-SN:1101

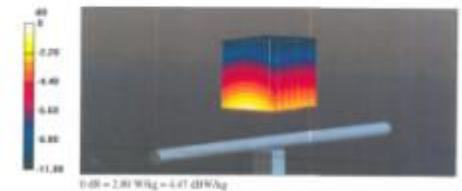
Communication System: UED-5 - CW, Frequency: 750 MHz  
Medium parameters used:  $f = 750 \text{ MHz}$ ,  $n = 0.92$ ,  $\epsilon = 41.1$ ,  $\rho = 0.004 \text{ g/cm}^3$   
Polarization: Flat Section  
Measurement Standard: DASY5 (SIEBRO/AMU CW 19-2011)

DASY5 Configuration:

- Probe: ESD5V4 - D750V3, Case/ID: 1027, 1027, 1027; Calibrated: 13.06.2016;
- Sensor Surface: 1 Area (Mechanical Surface Detection)
- Electronics: DA24 50W1; Calibrated: 30.12.2015
- Phantom: Flat Phantom 4 H., Type: Q000P00A; Serial: 100;
- DASY5: S2XN1201; SIMCAD X 14.6.100372;

Dipole Calibration for Head Tissue/Power=250 mW, d=15mm/Zoom Scan (7x7x7)Cube II:

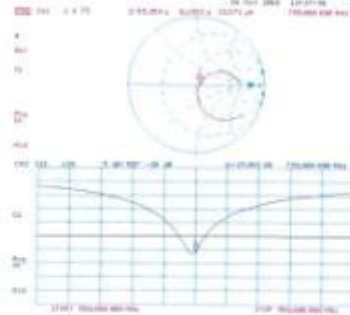
Measurement grid:  $d_x=15\text{mm}$ ,  $d_y=15\text{mm}$ ,  $d_z=15\text{mm}$   
Reference Value = 50.00 V/m; Power Dens = 0.00 dB  
Peak SAR (interpolated) = 2.14 W/kg  
SAR(10 g) = 2.11 W/kg; SAR(100 g) = 1.28 W/kg  
Maximum value of SAR (measured) = 2.80 W/kg



Certificate No. D750V3-1101\_2016

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Impedance Measurement Plot for Head TSL



Certificate No. D750V3-1101\_2016

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DASY5 Validation Report for Body TSL

Date: 24.10.2016

Test Laboratory: SP5AG, Zurich, Switzerland

DCU: Dipole 750 MHz, Type: D750V3, Serial: D750V3-SN:1101

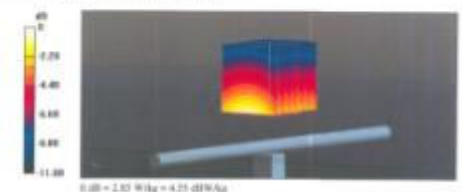
Communication System: UED-5 - CW, Frequency: 750 MHz  
Medium parameters used:  $f = 750 \text{ MHz}$ ,  $n = 0.97$ ,  $\epsilon = 33.4$ ,  $\rho = 0.004 \text{ g/cm}^3$   
Polarization: Flat Section  
Measurement Standard: DASY5 (SIEBRO/AMU CW 19-2011)

DASY5 Configuration:

- Probe: ESD5V4 - D750V3, Case/ID: 919, 919, 919; Calibrated: 13.06.2016;
- Sensor Surface: 1 Area (Mechanical Surface Detection)
- Electronics: DA24 50W1; Calibrated: 30.12.2015
- Phantom: Flat Phantom 4 H., Type: Q000P00A; Serial: 100;
- DASY5: S2XN1201; SIMCAD X 14.6.100372;

Dipole Calibration for Body Tissue/Power=250 mW, d=15mm/Zoom Scan (7x7x7)Cube II:

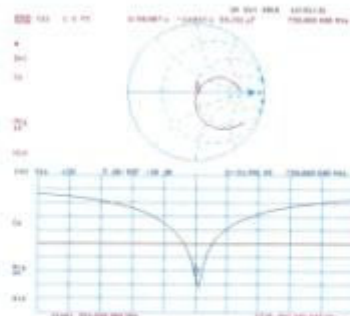
Measurement grid:  $d_x=15\text{mm}$ ,  $d_y=15\text{mm}$ ,  $d_z=15\text{mm}$   
Reference Value = 50.71 V/m; Power Dens = 0.00 dB  
Peak SAR (interpolated) = 2.10 W/kg  
SAR(10 g) = 2.07 W/kg; SAR(100 g) = 1.44 W/kg  
Maximum value of SAR (measured) = 2.80 W/kg



Certificate No. D750V3-1101\_2016

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Impedance Measurement Plot for Body TSL



Certificate No. D750V3-1101\_2016

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D835V2 Sn:4d023

Calibration Laboratory of Schmid & Partner Engineering AG  
Zugstrasse 10, 8000 Zug, Switzerland  
Accredited by the Swiss Accreditation Service (SAS)  
The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates  
Client: SRTC (Pine) Certificate No.: D835V2-4003\_0019  
Accreditation No.: SCS 0108

**CALIBRATION CERTIFICATE**

Name: D835V2 - 0014003  
Calibration provided: QA-CAL-05.04  
Calibration procedure for dipole calibration kit above 700 MHz  
Calibration date: October 24, 2018

This calibration certificate documents the feasibility to national standards, which assure the traceability of measurements (2). The measurement and the uncertainty with confidence intervals are given in the following pages and are part of the certificate.

All calibrations have been conducted in the most laboratory facility, ambient temperature 20 ± 0.1 °C and humidity < 10%.

Calibration Equipment used (MUT) subject to calibration:

Primary Reference	Q1 or Q2	Due Date (if applicable)	Serviceable Calibration
Power meter NRP 100	04-10010	04-Sep-18 Due: 07-09-2018	Apr-17
Power meter NRP 200	04-10014	04-Sep-18 Due: 07-09-2018	Apr-17
Power meter NRP 300	04-10015	04-Sep-18 Due: 07-09-2018	Apr-17
Reference 10 dB attenuator	04-10016	04-Sep-18 Due: 07-09-2018	Apr-17
Type II Impedance Comparator	04-10017	04-Sep-18 Due: 07-09-2018	Apr-17
Reference Plane E82719	04-1799	04-Sep-18 Due: 04-09-1918, 04-09-18	Jan-17
EMF	04-1807	03-Sep-18 Due: 04-09-18, 04-09-18	Jan-17

Secondary Reference

Q1 or Q2	Due Date (if traceable)	Serviceable Date
Power meter D10000A	01-Sep-18 Due: 01-Sep-2018 (01-18)	01-Sep-2018 (01-18)
Power meter NRP 10	04-10010/10	07-09-18 (01-Sep-2018 (01-18))
Power meter NRP 20	04-10014/20	07-09-18 (01-Sep-2018 (01-18))
Power meter NRP 30	04-10015/30	07-09-18 (01-Sep-2018 (01-18))
10 generator NRP 100 dB	04-10016	04-Sep-18 (01-Sep-2018 (01-18))
Network Analyzer NP 4750E	04-10016/005	04-Sep-18 (01-Sep-2018 (01-18))

Customer: SRTC (Pine) Calibration Technician: [Signature]  
Name: [Signature] Technician Manager: [Signature]

This calibration certificate may not be reproduced without the written approval of the issuing laboratory.

Certificate No.: D835V2-4003\_0019 Page 1 of 8

Calibration Laboratory of Schmid & Partner Engineering AG  
Zugstrasse 10, 8000 Zug, Switzerland  
Accredited by the Swiss Accreditation Service (SAS)  
The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates  
Client: SRTC (Pine) Certificate No.: D835V2-4003\_0019  
Accreditation No.: SCS 0108

**Glossary:**  
TSL: Issue enclosing liquid  
Conf: sensitivity in TSL / NORM e.g. p  
NA: not applicable or not measured

**Calibration is Performed According to the Following Standards:**

- IEEE Std 1029-2013, "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 300 MHz to 3 GHz)", February 2009
- IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- ISO 66664, "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.: D835V2-4003\_0019 Page 2 of 8

**Measurement Conditions**  
DASY subject configuration: SRTC (Pine) (EUT) (SGL)

DASY Variable	DASY Value	Unit
Extrapolation	Advanced Extrapolation	
Phantom	Mobile Flat Phantom	
Distance (Spine Center - TSL)	10 cm	with spacer
Wave Scan Resolution	0.5, 0.5, 0.5 ± 0.04	
Frequency	835 MHz ± 1 MHz	

**Head TSL parameters**  
The following parameters and calculations were applied:

Measured Head TSL parameters	Temperature	Permittivity	Conductivity
Measured Head TSL parameters	20.0 °C	41.0	0.00 mho/m
Head TSL temperature change during test	+0.2 °C		

**SAR result with Head TSL**

SAR averaged over 1 cm² (1 g) of Head TSL	Condition
SAR measured	200 mW input power: 0.47 W/kg
SAR for nominal Head TSL parameters	normalized to 1W: 0.48 W/kg ± 17.0 % (k=2)

**Body TSL parameters**  
The following parameters and calculations were applied:

Measured Body TSL parameters	Temperature	Permittivity	Conductivity
Measured Body TSL parameters	20.0 °C	50.0	0.07 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	50 ± 0.5	0.00 mho/m ± 0 %
Body TSL temperature change during test	+0.2 °C		

**SAR result with Body TSL**

SAR averaged over 1 cm² (1 g) of Body TSL	Condition
SAR measured	200 mW input power: 2.00 W/kg
SAR for nominal Body TSL parameters	normalized to 1W: 0.62 W/kg ± 11.0 % (k=2)

Certificate No.: D835V2-4003\_0019 Page 3 of 8

**Appendix (Additional assessments outside the scope of SCS 0108)**

**Antenna Parameters with Head TSL**

Impedance, transformed to feed point	50.4 Ω - j19.0 Ω
Return Loss	-28.4 dB

**Antenna Parameters with Body TSL**

Impedance, transformed to feed point	40.3 Ω - 5.1 j Ω
Return Loss	-25.0 dB

**General Antenna Parameters and Design**

Electrical Delay (one-direction)	1.308 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warping of the dipole near the feedpoint can be measured. The dipole is made of stranded serrated coaxial cable. The center conductor of the feeding line is precisely unwarped by the second arm of the dipole. The antenna is therefore about classified by D3-regular. On some of the dipoles, small and 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 additional conductors near the feedpoint may be damaged.

**Additional EUT Data**

Manufactured by	SFGAG
Manufactured on	December 17, 2014

Certificate No.: D835V2-4003\_0019 Page 4 of 8

D835V2 Sn:4d023

DASY5 Validation Report for Head TSL

Date: 24.10.2016

The Laboratory: SP/AG, Zurich, Switzerland

DUT: Dipole 835 MHz, Type D83V2, Serial: D83V2 - SN:4d023

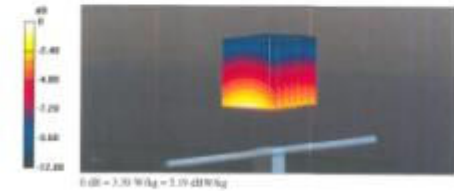
Communication System: UED 0 - CW, Frequency: 835 MHz  
Medium parameters used:  $f = 835 \text{ MHz}$ ,  $n = 0.97$  (Sea,  $s_0 = 40 \text{ dB}$ ),  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section  
Measurement Standard: DASY5 (IEEE/IEC/ANSI C37.19.2011)

DASY5 Configuration:

- Probe: ESDIV4 - SNT346, Coord (X, Y, Z), Calibration: 12.06.2016
- Sensor Surface: 1 Area (Mechanical Surface Detection)
- Electronics: DA24 SoftI, Calibration: 30.12.2015
- Phantom: Flat Phantom 4 H., Type: QD000P/ASA, Serial: 1001
- DASY5: S2.R.R.1298, SEMCAD X 14.6.1003721

Dipole Calibration for Head Tissue/Flat=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

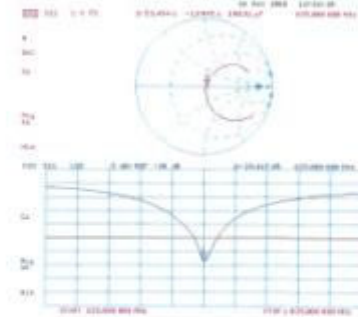
Measurement gE: 0x/0mm, 0y/0mm, 0z/0mm  
Reference Value = 61.72 V/m, Power Dens = 0.07 dB  
Peak SAR (extrapolated) = 3.72 W/kg  
SAR(1g) = 2.47 W/kg; SAR(10g) = 1.09 W/kg  
Maximum value of SAR (measured) = 3.30 W/kg



Certificate No. 086305-4802, 0216

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Impedance Measurement Plot for Head TSL



Certificate No. 086305-4802, 0216

Page 4 of 6

DASY5 Validation Report for Body TSL

Date: 24.10.2016

The Laboratory: SP/AG, Zurich, Switzerland

DUT: Dipole 835 MHz, Type D83V2, Serial: D83V2 - SN:4d023

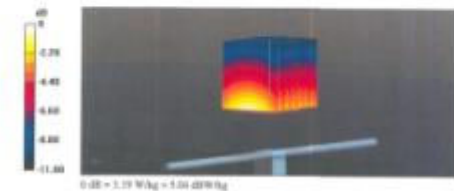
Communication System: UED 0 - CW, Frequency: 835 MHz  
Medium parameters used:  $f = 835 \text{ MHz}$ ,  $n = 0.99$  (Sea,  $s_0 = 15 \text{ dB}$ ),  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section  
Measurement Standard: DASY5 (IEEE/IEC/ANSI C37.19.2011)

DASY5 Configuration:

- Probe: ESDIV4 - SNT346, Coord (X, Y, Z), Calibration: 12.06.2016
- Sensor Surface: 1 Area (Mechanical Surface Detection)
- Electronics: DA24 SoftI, Calibration: 30.12.2015
- Phantom: Flat Phantom 4 H., Type: QD000P/ASA, Serial: 1001
- DASY5: S2.R.R.1298, SEMCAD X 14.6.1003721

Dipole Calibration for Body Tissue/Flat=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

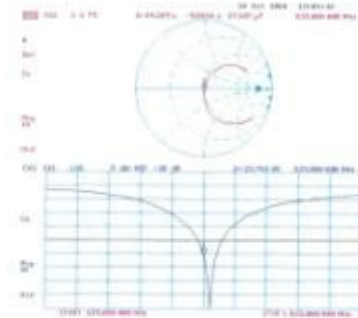
Measurement gE: 0x/0mm, 0y/0mm, 0z/0mm  
Reference Value = 99.07 V/m, Power Dens = 0.01 dB  
Peak SAR (extrapolated) = 3.29 W/kg  
SAR(1g) = 2.44 W/kg; SAR(10g) = 1.8 W/kg  
Maximum value of SAR (measured) = 3.19 W/kg



Certificate No. 086305-4802, 0216

Page 7 of 6

Impedance Measurement Plot for Body TSL



Certificate No. 086305-4802, 0216

Page 8 of 6



D1900V2 Sn:5d113

Calibration Laboratory of Science & Pattern Engineering AG  
Sachverständigenbüro für  
Elektromagnetische Verträglichkeit  
Servicecenter für Messung  
Servicecenter für Messung  
Service Calibration Service

Accreditation No.: SCS 0108

Authorized by the Swiss Accreditation Service (SAS)  
The Swiss Accreditation Service is a member organization of the IAF  
Multilateral Agreement for the recognition of calibration certificates

Client: SRTC (SRTC) Certificate No.: D1900V2-0113\_00118

### CALIBRATION CERTIFICATE

Item: D1900V2 Sn:5d113

Calibration procedure: QA CAL-05-01  
Calibration procedure for dipole antennas 400 MHz above 750 MHz

Calibration date: October 31, 2018

This calibration certificate conforms to the requirements of national standards, which relate to physical units of measurement (SI).  
The measurement and/or calibration data certificate contains all given in the following pages and pages of the certificate.

All calibration work has been carried out in the clean laboratory facility, environment temperature 20 ± 0.2°C, humidity < 30%.

Calibration Program used (METS) used for calibration:

Process Parameter	Unit	Test Data (Calibration %)	Calibration Calibration
Process error 1st step	dB	100.0%	Apr 17
Process error 2nd step	dB	100.0%	Apr 17
Process error 3rd step	dB	100.0%	Apr 17
Process error 4th step	dB	100.0%	Apr 17
Process error 5th step	dB	100.0%	Apr 17
Process error 6th step	dB	100.0%	Apr 17
Process error 7th step	dB	100.0%	Apr 17
Process error 8th step	dB	100.0%	Apr 17
Process error 9th step	dB	100.0%	Apr 17
Process error 10th step	dB	100.0%	Apr 17
Process error 11th step	dB	100.0%	Apr 17
Process error 12th step	dB	100.0%	Apr 17
Process error 13th step	dB	100.0%	Apr 17
Process error 14th step	dB	100.0%	Apr 17
Process error 15th step	dB	100.0%	Apr 17
Process error 16th step	dB	100.0%	Apr 17
Process error 17th step	dB	100.0%	Apr 17
Process error 18th step	dB	100.0%	Apr 17
Process error 19th step	dB	100.0%	Apr 17
Process error 20th step	dB	100.0%	Apr 17

Calibrated by: [Signature]  
Approved by: [Signature]

Certificate No.: D1900V2-0113\_00118 Page 1 of 3

Calibration Laboratory of Science & Pattern Engineering AG  
Sachverständigenbüro für  
Elektromagnetische Verträglichkeit  
Servicecenter für Messung  
Servicecenter für Messung  
Service Calibration Service

Accreditation No.: SCS 0108

Authorized by the Swiss Accreditation Service (SAS)  
The Swiss Accreditation Service is a member organization of the IAF  
Multilateral Agreement for the recognition of calibration certificates

Client: SRTC (SRTC) Certificate No.: D1900V2-0113\_00118

### CALIBRATION CERTIFICATE

Item: D1900V2 Sn:5d113

Calibration procedure: QA CAL-05-01  
Calibration procedure for dipole antennas 400 MHz above 750 MHz

Calibration date: October 31, 2018

This calibration certificate conforms to the requirements of national standards, which relate to physical units of measurement (SI).  
The measurement and/or calibration data certificate contains all given in the following pages and pages of the certificate.

All calibration work has been carried out in the clean laboratory facility, environment temperature 20 ± 0.2°C, humidity < 30%.

Calibration Program used (METS) used for calibration:

**Glossary:**  
TSL: Head simulating load  
CorrF: sensitivity in TSL / SCS02 x,y,z  
NA: not applicable or not measured

**Calibration is Performed According to the Following Standards:**

- 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 300 MHz to 3 GHz)", February 2005
- IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- ISO 86564, "SAR Measurement Requirements for 100 MHz to 6 GHz"

**Additional Documentation:**

- DASY6 System Handbook

**Methods Applied and Interpretation of Parameters:**

- Measurement Conditions:** Further details are available from the Calibration Report at the end of the certificate. All figures stated in this certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:** The dipole is mounted with the spacer in position in feed point exactly below the carrier 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.: D1900V2-0113\_00118 Page 2 of 3

**Measurement Conditions**  
DASY\_system.com (location, as for not given on page 1)

SAR Vector	Conditions	Value
Extrapolation	Advanced Extrapolation	Yes, 0.8
Phantom	Modular Flat Phantom	with Spacer
Distance Spoke Center - TSL	18 mm	
Zero Scan Resolution	0.5 dB, 0.5 m	
Frequency	1000 MHz ± 1 MHz	

**Head TSL parameters**  
The following parameters and calculations were applied:

Parameter	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	49.0	1.46 mS/m
Measured Head TSL parameters	22.2 ± 0.2 °C	49.0 ± 0.5 %	1.38 mS/m ± 6 %
Head TSL temperature change during test	+ 0.2 °C	---	---

**SAR result with Head TSL**

SAR averaged over 1 cm <sup>2</sup> (1 g) of Head TSL	Condition	Value
SAR measured	200 mW input power	10.1 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	46.7 W/kg ± 17.8 % (k=2)

**Body TSL parameters**  
The following parameters and calculations were applied:

Parameter	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	53.0	1.33 mS/m
Measured Body TSL parameters	22.2 ± 0.2 °C	53.2 ± 0.5 %	1.48 mS/m ± 6 %
Body TSL temperature change during test	+ 0.2 °C	---	---

**SAR result with Body TSL**

SAR averaged over 1 cm <sup>2</sup> (1 g) of Body TSL	Condition	Value
SAR measured	200 mW input power	6.80 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	29.8 W/kg ± 17.8 % (k=2)

Certificate No.: D1900V2-0113\_00118 Page 3 of 3

**Appendix (Additional assessments outside the scope of SCS 0108)**

**Antenna Parameters with Head TSL**

Parameter	Value
Impedance, transformed to feed point	51.1 Ω ± 0.2 Ω
Return Loss	-23.8 dB

**Antenna Parameters with Body TSL**

Parameter	Value
Impedance, transformed to feed point	47.0 Ω ± 7.7 Ω
Return Loss	-17.6 dB

**General Antenna Parameters and Design**

Parameter	Value
Electrical Delay (one direction)	1.02 ns

After long term use with 1000 mW input power, only a slight warping of the dipole near the feedpoint can be measured.

The dipole is made of stainless steel (austenitic) rods. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is flexible and can be bent for DC signals. On some of the dipole, small packages are added to the dipole arms in order to improve matching when tested according to the position as explained in the "Measurement Conditions" paragraph. The SAR data can not affected by this change. The overall dipole length is 480 according to the Standards. No pressure force must be applied to the dipole arms, because they might bend to the calibrated connections near the feedpoint may be damaged.

**Additional EUT Data**

Parameter	Value
Manufactured by	SPEAG
Manufactured on	July 24, 2016

Certificate No.: D1900V2-0113\_00118 Page 4 of 3

D1900V2 Sn:5d113

DASY5 Validation Report for Head TSL

Date: 31.10.2016

The Laboratory: SP/AG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2-5N:5d113

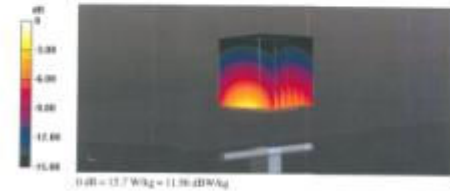
Communication System: UTD 0 - CW; Frequency: 1900 MHz  
 Medium parameters used:  $f = 1900 \text{ MHz}$ ,  $n = 1.50$ ,  $\mu = 40.6$ ,  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section  
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19:2011)

DASY5 Configuration:

- Probe: EK2D14 - SNT140; Core(F7-05, T-09, T-30); Calibration: 13.06.2016;
- Sensor Surface: 1.4mm (Mechanical Surface Direction)
- Electronics: DMS4 (a01), Calibration: 30.12.2015
- Phantom: Flat Phantom 5.0 (flat); Type: QD00P50AA; Serial: 001
- DASY5: 52.6.6(120); SEMCAD X 14.6.0(1312)

Dipole Calibration for Head Tissue/Pho=200 g/W, d=10mm/Zoom Scan (7x7x7)/Cube R:

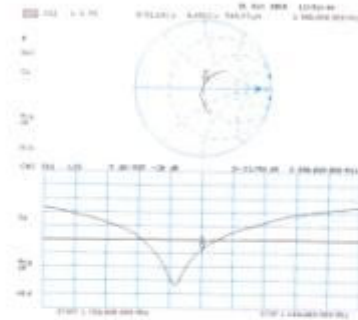
Measurement grid:  $d_x=5\text{mm}$ ,  $d_y=5\text{mm}$ ,  $d_z=5\text{mm}$   
 Reference Value = 106.4 V/m; Power DdB = -0.00 dB  
 Peak SAR (computed) = 19.3 W/kg  
 SAR(1g) = 10.1 W/kg; SAR(10g) = 5.3 W/kg  
 Maximum value of SAR (measured) = 15.7 W/kg



Certificate No: 0190005-00113\_0016

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Impedance Measurement Plot for Head TSL



Certificate No: 0190005-00113\_0016

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DASY5 Validation Report for Body TSL

Date: 31.10.2016

The Laboratory: SP/AG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2-5N:5d113

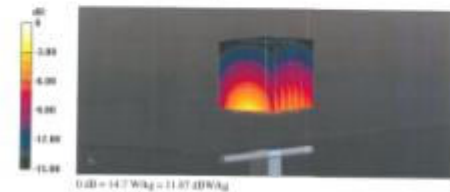
Communication System: UTD 0 - CW; Frequency: 1900 MHz  
 Medium parameters used:  $f = 1900 \text{ MHz}$ ,  $n = 1.48$ ,  $\mu = 35.2$ ,  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section  
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19:2011)

DASY5 Configuration:

- Probe: EK2D14 - SNT140; Core(F7-05, S-10, S-10); Calibration: 11.06.2016;
- Sensor Surface: 1.4mm (Mechanical Surface Direction)
- Electronics: DMS4 (a01), Calibration: 30.12.2015
- Phantom: Flat Phantom 5.0 (flat); Type: QD00P50AA; Serial: 001
- DASY5: 52.6.6(120); SEMCAD X 14.6.0(1312)

Dipole Calibration for Body Tissue/Pho=200 g/W, d=10mm/Zoom Scan (7x7x7)/Cube R:

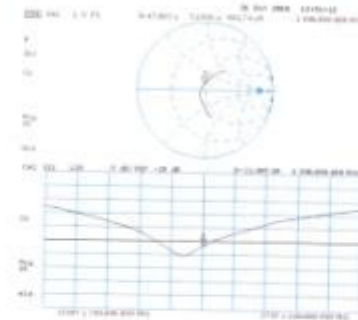
Measurement grid:  $d_x=5\text{mm}$ ,  $d_y=5\text{mm}$ ,  $d_z=5\text{mm}$   
 Reference Value = 106.5 V/m; Power DdB = -0.00 dB  
 Peak SAR (computed) = 17.3 W/kg  
 SAR(1g) = 9.8 W/kg; SAR(10g) = 5.23 W/kg  
 Maximum value of SAR (measured) = 14.7 W/kg



Certificate No: 0190005-00113\_0016

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Impedance Measurement Plot for Body TSL



Certificate No: 0190005-00113\_0016

Page 8 of 8



D2450V2 Sn:738

Calibration Laboratory of  
Schmid & Partner  
Engineering AG  
Am Flughafen 53, 89074 Ulm, Switzerland

Accredited by the Swiss Accreditation Service (SAS)  
The Swiss Accreditation Service is one of the signatories to the ISO  
Multilateral Agreement for the recognition of calibration certificates

Reference No.: SCS 0108

Client: SRTC (HWS) | Certificate: D2450V2-TSL\_Gut18

### CALIBRATION CERTIFICATE

Object: D2450V2 - 091718

Calibration standard: SAR CAL 05-18  
Calibration procedure to apply wireless HWS above 700 MHz

Calibration date: October 25, 2018

This calibration certificate documents the measurability of technical devices, when tested in the specified units of measurability (U).  
The measurability can be compared with calibration certificates not given in the following pages of this certificate.

All calibrations have been conducted in the most favorable testing environment (temperature 23 ± 0.5 °C, air humidity < 50%).

Calibration equipment used (EMF) not to calibration:

Company designation	EMF	EMF (Certificate No.)	Expiration date
Power source MP	101 100176	10-Apr-18 (No. 2110000000)	Apr-17
Power source MP (2)	101 100884	10-Apr-18 (No. 2110000000)	Apr-17
Power source MP (3)	101 100883	10-Apr-18 (No. 2110000000)	Apr-17
Reference EMF Phantom	101 100882	10-Apr-18 (No. 2110000000)	Apr-17
Type of measurement conditions	101 100118	10-Apr-18 (No. 4110000000)	Apr-17
Reference Power EMF (2)	101 100117	10-Apr-18 (No. 4110000000)	Apr-17
EMF	101 100116	10-Apr-18 (No. 4110000000)	Apr-17

Secondary standards:

Company designation	EMF	EMF (Certificate No.)	Expiration Date
Power source EMF (2)	101 100115	10-Apr-18 (No. 4110000000)	10-Apr-18 (No. 4110000000)
Power source EMF (3)	101 100114	10-Apr-18 (No. 4110000000)	10-Apr-18 (No. 4110000000)
Power source EMF (4)	101 100113	10-Apr-18 (No. 4110000000)	10-Apr-18 (No. 4110000000)
EMF (2)	101 100112	10-Apr-18 (No. 4110000000)	10-Apr-18 (No. 4110000000)
Reference Power EMF (1)	101 100111	10-Apr-18 (No. 4110000000)	10-Apr-18 (No. 4110000000)
EMF	101 100110	10-Apr-18 (No. 4110000000)	10-Apr-18 (No. 4110000000)

Calibrated by: [Signature]

Approved by: [Signature]

Issue Date: 2018-10-26

Certificate No.: D2450V2-TSL\_Gut18 | Page 1 of 8

Calibration Laboratory of  
Schmid & Partner  
Engineering AG  
Am Flughafen 53, 89074 Ulm, Switzerland

Accredited by the Swiss Accreditation Service (SAS)  
The Swiss Accreditation Service is one of the signatories to the ISO  
Multilateral Agreement for the recognition of calibration certificates

Reference No.: SCS 0108

Client: SRTC (HWS) | Certificate: D2450V2-TSL\_Gut18

### CALIBRATION CERTIFICATE

Object: D2450V2 - 091718

Calibration standard: SAR CAL 05-18  
Calibration procedure to apply wireless HWS above 700 MHz

Calibration date: October 25, 2018

This calibration certificate documents the measurability of technical devices, when tested in the specified units of measurability (U).  
The measurability can be compared with calibration certificates not given in the following pages of this certificate.

All calibrations have been conducted in the most favorable testing environment (temperature 23 ± 0.5 °C, air humidity < 50%).

Calibration equipment used (EMF) not to calibration:

Company designation	EMF	EMF (Certificate No.)	Expiration date
Power source MP	101 100176	10-Apr-18 (No. 2110000000)	Apr-17
Power source MP (2)	101 100884	10-Apr-18 (No. 2110000000)	Apr-17
Power source MP (3)	101 100883	10-Apr-18 (No. 2110000000)	Apr-17
Reference EMF Phantom	101 100882	10-Apr-18 (No. 2110000000)	Apr-17
Type of measurement conditions	101 100118	10-Apr-18 (No. 4110000000)	Apr-17
Reference Power EMF (2)	101 100117	10-Apr-18 (No. 4110000000)	Apr-17
EMF	101 100116	10-Apr-18 (No. 4110000000)	Apr-17

Secondary standards:

Company designation	EMF	EMF (Certificate No.)	Expiration Date
Power source EMF (2)	101 100115	10-Apr-18 (No. 4110000000)	10-Apr-18 (No. 4110000000)
Power source EMF (3)	101 100114	10-Apr-18 (No. 4110000000)	10-Apr-18 (No. 4110000000)
Power source EMF (4)	101 100113	10-Apr-18 (No. 4110000000)	10-Apr-18 (No. 4110000000)
EMF (2)	101 100112	10-Apr-18 (No. 4110000000)	10-Apr-18 (No. 4110000000)
Reference Power EMF (1)	101 100111	10-Apr-18 (No. 4110000000)	10-Apr-18 (No. 4110000000)
EMF	101 100110	10-Apr-18 (No. 4110000000)	10-Apr-18 (No. 4110000000)

Calibrated by: [Signature]

Approved by: [Signature]

Issue Date: 2018-10-26

Certificate No.: D2450V2-TSL\_Gut18 | Page 2 of 8

#### Measurement Conditions

DASY system configuration, as for 30.00 shown on page 1

DASY Feature	DASYs	Version
Substation	Advanced Substation	V08.0.6
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	30 mm	not applicable
Zone Size Resolution	8x, 3x, 3x = 9 mm	
Frequency	2450 MHz ± 1.00 Hz	

#### Head TSL parameters

The following parameters and relationships were applied:

Parameter	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	23.0 °C	39.2	1.86 nS/cm
Measured Head TSL parameters	22.0 ± 0.2 °C	39.2 ± 0.5	1.87 nS/cm ± 0.5%
Head TSL temperature change during test	+0.8 °C	---	---

#### SAR result with Head TSL

SAR averaged over 1 cm <sup>2</sup> (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	13.1 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	61.8 W/kg ± 17.8 % (k=2)

SAR averaged over 10 cm <sup>2</sup> (10 g) of Head TSL	Condition	
SAR measured	200 mW input power	8.07 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	63.9 W/kg ± 16.5 % (k=2)

#### Body TSL parameters

The following parameters and relationships were applied:

Parameter	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	33.0 °C	52.7	1.85 nS/cm
Measured Body TSL parameters	32.0 ± 0.2 °C	52.9 ± 0.5	2.30 nS/cm ± 0.5%
Body TSL temperature change during test	+0.8 °C	---	---

#### SAR result with Body TSL

SAR averaged over 1 cm <sup>2</sup> (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	13.0 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	50.8 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm <sup>2</sup> (10 g) of Body TSL	Condition	
SAR measured	200 mW input power	6.88 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	54.0 W/kg ± 16.5 % (k=2)

Certificate No.: D2450V2-TSL\_Gut18 | Page 3 of 8

#### Appendix (Additional assessments outside the scope of SCS 0108)

##### Antenna Parameters with Head TSL

Parameter	Value
Impedance, transformed to feed point	55.8 Ω ± 0.1 Ω
Return Loss	-27.0 dB

##### Antenna Parameters with Body TSL

Parameter	Value
Impedance, transformed to feed point	46.7 Ω ± 0.8 Ω
Return Loss	-26.0 dB

##### General Antenna Parameters and Design

Parameter	Value
Electrical Delay line direction	1.187 m

After long term use with 100W substation, only a slight warming of the dipole (up the feedpoint) can be measured.

The study is made of standard average sized cable. The center conductor of the feeding line is directly connected to the secondary of the dipole. The antenna is flexible and can be bent in any direction. The weight of the dipole, small weights are added to the dipole arms to make it more matching when tested according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by the change. The overall dipole length is not according to the standard. No measured force must be applied to the dipole arms, because they might break at the additional connections near the feedpoint may be damaged.

##### Additional EUT Data

Manufacturer	Model
SPEAD	August 16, 2018

Certificate No.: D2450V2-TSL\_Gut18 | Page 4 of 8

D2450V2 Sn:738

DASY2 Validation Report for Head TSL

Date: 25.10.2016

Test Laboratory: SPGAG, Zurich, Switzerland

DUT: Dipole 2450 MHz, Type: D2450V2, Serial: D2450V2-SN:738

Communication System: UED 0 - CW, Frequency: 2450 MHz  
Medium parameters used:  $f = 2450$  MHz,  $\sigma = 1.87$  S/m,  $\epsilon = 38.2$ ,  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASY2 (IEEE/ISO/ANSI C63.29-2011)

DASY2 Configuration:

- Probe: EXCIPV4 - INT700, Case(F): 75, 7.75, 7.75; Calibration: 15.06.2016,
- Sensor Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DA84 Sub01, Calibration: 30.12.2015
- Phantom: FlatPhantom 1.0 (back), Type: QD000P50AA, Serial: 1001
- DASY2: SI 8.8.1(250), SEMCAD X 14.4.10(7372)

Dipole Calibration for Head Tissue/ $P_{in}=250$  mW,  $d=10$ mm/Zoom Scan (7x7x7)/Cube 0:

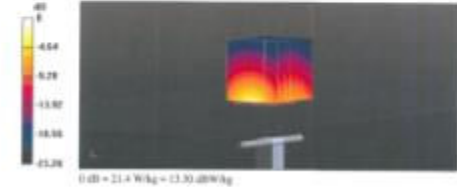
Measurement grid:  $d_x=5$ mm,  $d_y=5$ mm,  $d_z=1$ mm

Reference Value = 111.7 V/m, Power Dens = 0.0040

Peak SAR (interpolated) = 26.4 W/kg

SAR(1g) = 13.4 W/kg; SAR(0.1g) = 6.87 W/kg

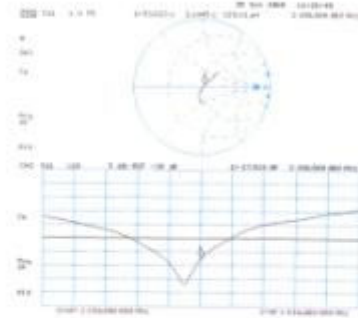
Maximum value of SAR (measured) = 21.4 W/kg



Certificate No.: 2016040738\_0416

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Impedance Measurement Plot for Head TSL



Certificate No.: 2016040738\_0416

Page 7 of 8

DASY2 Validation Report for Body TSL

Date: 25.10.2016

Test Laboratory: SPGAG, Zurich, Switzerland

DUT: Dipole 2450 MHz, Type: D2450V2, Serial: D2450V2-SN:738

Communication System: UED 0 - CW, Frequency: 2450 MHz  
Medium parameters used:  $f = 2450$  MHz,  $\sigma = 1.72$  S/m,  $\epsilon = 51.3$ ,  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASY2 (IEEE/ISO/ANSI C63.29-2011)

DASY2 Configuration:

- Probe: EXCIPV4 - INT700, Case(F): 75, 7.75, 7.75; Calibration: 15.06.2016,
- Sensor Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DA84 Sub01, Calibration: 30.12.2015
- Phantom: FlatPhantom 1.0 (back), Type: QD000P50AA, Serial: 1001
- DASY2: SI 8.8.1(250), SEMCAD X 14.4.10(7372)

Dipole Calibration for Body Tissue/ $P_{in}=250$  mW,  $d=10$ mm/Zoom Scan (7x7x7)/Cube 0:

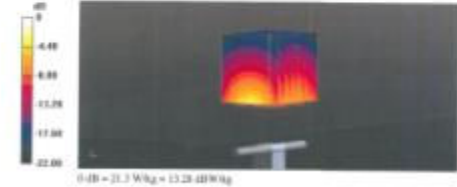
Measurement grid:  $d_x=5$ mm,  $d_y=5$ mm,  $d_z=1$ mm

Reference Value = 107.3 V/m, Power Dens = 0.0040

Peak SAR (interpolated) = 26.0 W/kg

SAR(1g) = 13 W/kg; SAR(0.1g) = 6.66 W/kg

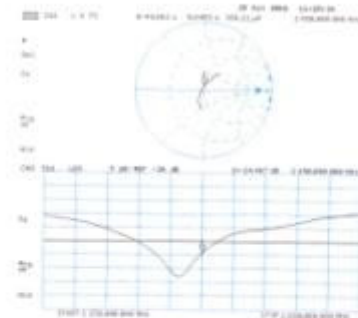
Maximum value of SAR (measured) = 21.3 W/kg



Certificate No.: 2016040738\_0416

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Impedance Measurement Plot for Body TSL



Certificate No.: 2016040738\_0416

Page 8 of 8

D2600V2 Sn:1089

Calibration Laboratory of  
School of Physics  
Engineering 03  
Registration No. 2016-03-01 (Institution)

Accredited to the Radio Monitoring Center (SRTC)  
The Accreditation Certificate is the recognition of the Calibration Laboratory's Calibration Certificate

Client: **Sony Mobile CH (Fits)** Certificate No. **D2600V2-1000\_Just**

Accreditation No.: **SCS 0108**

### CALIBRATION CERTIFICATE

Client: **D2600V2 - SN: 1089**

Calibration procedure: **DA-CAL-03V2**  
Calibration procedure for dipole solderable kits above 700 MHz

Calibration date: **July 13, 2016**

The calibration certificate is issued for use only in the conditions which make it possible to use it as intended. The measurement and the calibration are not possible under the following circumstances as part of the certificate:

Calibration date validity: 1 year from the date of issue of the certificate

Calibration of Equipment used (EMF immunity evaluation)

Equipment	Model	Serial No.	Calibration Date	Calibration Validity
Power meter HP8731B	8731B	101-10000000	Apr 17	Apr 17
Power sensor HP8442	8442	101-10000000	Apr 17	Apr 17
Power sensor HP8443	8443	101-10000000	Apr 17	Apr 17
Reference Power F0001	F0001	101-10000000	Apr 17	Apr 17

Calibration of Equipment used (EMF immunity evaluation)

Equipment	Model	Serial No.	Calibration Date	Calibration Validity
Power meter HP8731B	8731B	101-10000000	Apr 17	Apr 17
Power sensor HP8442	8442	101-10000000	Apr 17	Apr 17
Power sensor HP8443	8443	101-10000000	Apr 17	Apr 17
Reference Power F0001	F0001	101-10000000	Apr 17	Apr 17

Calibration of Equipment used (EMF immunity evaluation)

Equipment	Model	Serial No.	Calibration Date	Calibration Validity
Power meter HP8731B	8731B	101-10000000	Apr 17	Apr 17
Power sensor HP8442	8442	101-10000000	Apr 17	Apr 17
Power sensor HP8443	8443	101-10000000	Apr 17	Apr 17
Reference Power F0001	F0001	101-10000000	Apr 17	Apr 17

Calibration of Equipment used (EMF immunity evaluation)

Equipment	Model	Serial No.	Calibration Date	Calibration Validity
Power meter HP8731B	8731B	101-10000000	Apr 17	Apr 17
Power sensor HP8442	8442	101-10000000	Apr 17	Apr 17
Power sensor HP8443	8443	101-10000000	Apr 17	Apr 17
Reference Power F0001	F0001	101-10000000	Apr 17	Apr 17

Client: **John Smith** Calibration Technician

Approved by: **John Smith** Technical Manager

Calibration Laboratory of  
School of Physics  
Engineering 03  
Registration No. 2016-03-01 (Institution)

Accredited to the Radio Monitoring Center (SRTC)  
The Accreditation Certificate is the recognition of the Calibration Laboratory's Calibration Certificate

Client: **Sony Mobile CH (Fits)** Certificate No. **D2600V2-1000\_Just**

Accreditation No.: **SCS 0108**

### CALIBRATION CERTIFICATE

Client: **D2600V2 - SN: 1089**

Calibration procedure: **DA-CAL-03V2**  
Calibration procedure for dipole solderable kits above 700 MHz

Calibration date: **July 13, 2016**

The calibration certificate is issued for use only in the conditions which make it possible to use it as intended. The measurement and the calibration are not possible under the following circumstances as part of the certificate:

Calibration date validity: 1 year from the date of issue of the certificate

Calibration of Equipment used (EMF immunity evaluation)

Equipment	Model	Serial No.	Calibration Date	Calibration Validity
Power meter HP8731B	8731B	101-10000000	Apr 17	Apr 17
Power sensor HP8442	8442	101-10000000	Apr 17	Apr 17
Power sensor HP8443	8443	101-10000000	Apr 17	Apr 17
Reference Power F0001	F0001	101-10000000	Apr 17	Apr 17

Calibration of Equipment used (EMF immunity evaluation)

Equipment	Model	Serial No.	Calibration Date	Calibration Validity
Power meter HP8731B	8731B	101-10000000	Apr 17	Apr 17
Power sensor HP8442	8442	101-10000000	Apr 17	Apr 17
Power sensor HP8443	8443	101-10000000	Apr 17	Apr 17
Reference Power F0001	F0001	101-10000000	Apr 17	Apr 17

Calibration of Equipment used (EMF immunity evaluation)

Equipment	Model	Serial No.	Calibration Date	Calibration Validity
Power meter HP8731B	8731B	101-10000000	Apr 17	Apr 17
Power sensor HP8442	8442	101-10000000	Apr 17	Apr 17
Power sensor HP8443	8443	101-10000000	Apr 17	Apr 17
Reference Power F0001	F0001	101-10000000	Apr 17	Apr 17

Calibration of Equipment used (EMF immunity evaluation)

Equipment	Model	Serial No.	Calibration Date	Calibration Validity
Power meter HP8731B	8731B	101-10000000	Apr 17	Apr 17
Power sensor HP8442	8442	101-10000000	Apr 17	Apr 17
Power sensor HP8443	8443	101-10000000	Apr 17	Apr 17
Reference Power F0001	F0001	101-10000000	Apr 17	Apr 17

Client: **John Smith** Calibration Technician

Approved by: **John Smith** Technical Manager

#### Measurement Conditions

EMF Exposure: **200 µW/m² @ 2.14 GHz**

Antenna: **Antenna Calibration**

Distance Dipole Center - TSL: **50 cm**

Scan Plane Position: **10 cm, 20 cm, 30 cm**

Frequency: **200 MHz ± 10%**

#### Head TSL parameters

The following parameters are calculated when applicable

Parameter	Temperature	Permittivity	Conductivity
Measured Head TSL parameters	32.5 °C	76.0	1.68 nS/m
Measured Body TSL parameters	32.5 ± 0.5 °C	37.5 ± 0.5	2.02 nS/m ± 0.5 %
Body TSL temperature change during test	± 0.5 °C	---	---

#### SAR result with Head TSL

Parameter	Condition	Value
SAR averaged over 1 cm² (1 g) of Head TSL	Condition	---
SAR measured	250 mW input power	1.6 E-01 W/kg
SAR for similar Head TSL parameters	normalized to 1 W	57.1 W/kg ± 17.6 % (3σ)

#### Body TSL parameters

The following parameters are calculated when applicable

Parameter	Temperature	Permittivity	Conductivity
Measured Body TSL parameters	32.5 °C	76.0	1.68 nS/m
Measured Body TSL parameters	32.5 ± 0.5 °C	37.5 ± 0.5	2.02 nS/m ± 0.5 %
Body TSL temperature change during test	± 0.5 °C	---	---

#### SAR result with Body TSL

Parameter	Condition	Value
SAR averaged over 1 cm² (1 g) of Body TSL	Condition	---
SAR measured	250 mW input power	1.6 E-01 W/kg
SAR for similar Body TSL parameters	normalized to 1 W	57.1 W/kg ± 17.6 % (3σ)

#### Appendix (Additional assessments outside the scope of SCS 0108)

##### Antenna Parameters with Head TSL

Parameter	Value
Maximum Input Power to Head TSL	49.5 mW (0.5 W)
Return Loss	> 20 dB

##### Antenna Parameters with Body TSL

Parameter	Value
Maximum Input Power to Body TSL	49.5 mW (0.5 W)
Return Loss	> 20 dB

##### General Antenna Parameters and Design

Parameter	Value
Electrical Delay (one direction)	1.140 ns

After being seen with 10W wireless power, only a slight heating of the body was the body was measured.

The body is made of standard unprinted circuit board. The center conductor of the feeding line is fixedly connected to the second wire of the dipole. The antenna is fixedly mounted on the printed circuit board. On some of the dipole, small metal caps are added to the dipole arms in order to improve matching when loaded according to the condition as specified in the Measurement Conditions paragraph. The SAR data are collected by this design. The overall dipole length is adjusted to the desired.

No exposure force must be applied to the body during the test as they might lead to the subject's discomfort or the body might be damaged.

#### Additional EUT Data

Parameter	Value
Manufactured by	OPEN
Manufactured on	March 18, 2014

D2600V2 Sn:1089

DASY5 Validation Report for Head TSL

Date: 11/07/2016

Test Location: SRTC, Anshu, Sichuan

DUT: Dipole 20W MHz; Type: D2600V2; Serial: D2600V2-8761089

Communication System: TD-SCDMA; Frequency: 2010 MHz  
Medium parameters:  $f_c = 2010 \text{ MHz}$ ;  $\alpha = 2.42 \text{ dB}$ ;  $\beta = 37.3 \text{ dB}$ ;  $\rho = 300 \text{ kg/m}^3$   
Plane wave: 1.0W (10W)

Measurement Standard: DASY5 (IEEE1929.1/318/319/320)

DASY5 Configuration:

- Probe: ES3014 (10754); Core: (7.56, 7.56, 7.56) Calibrated: 11/06/2016
- Antenna Surface: 1 Area (Median of Surface Detection)
- Electronic: DAH S601; Calibrated: 30/12/2015
- Platform: Flat Platform 5.0 (back); Type: Q000P55AA; Serial: 101
- DASY5 32.0.0 (256); SRICAD 3.14.6 (47572)

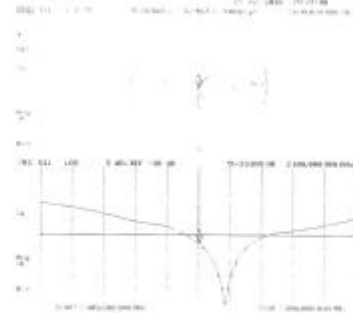
Dipole Calibration for Head Tissue (Plan=250 mW, d=1mm Zoom Scan (7x7) Cube B):  
Measurement grid: 4x4x4mm; d=1mm; d=1mm  
Reference Value: 117.2 mW (Plane D0) = 0.01 dB  
Peak SAR (measured) = 31.2 W/kg  
SAR10 g = 14.8 W/kg; SAR30 g = 6.46 W/kg  
Maximum value of SAR (measured) = 20.1 W/kg



File Name: 17070301\_008\_01.0

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Impedance Measurement Plot for Head TSL



File Name: 17070301\_008\_01.0

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DASY5 Validation Report for Body TSL

Date: 10/27/2016

Test Location: SRTC, Anshu, Sichuan

DUT: Dipole 20W MHz; Type: D2600V2; Serial: D2600V2-8761089

Communication System: TD-SCDMA; Frequency: 2010 MHz  
Medium parameters:  $f_c = 2010 \text{ MHz}$ ;  $\alpha = 2.2 \text{ dB}$ ;  $\beta = 31.4 \text{ dB}$ ;  $\rho = 100 \text{ kg/m}^3$   
Plane wave: 1.0W (10W)

Measurement Standard: DASY5 (IEEE1929.1/318/319/320)

DASY5 Configuration:

- Probe: ES3014 (10754); Core: (7.45, 7.45, 7.45); Calibrated: 11/06/2016
- Antenna Surface: 1 Area (Median of Surface Detection)
- Electronic: DAH S601; Calibrated: 30/12/2015
- Platform: Flat Platform 5.0 (back); Type: Q000P55AA; Serial: 101
- DASY5 32.0.0 (256); SRICAD 3.14.6 (47572)

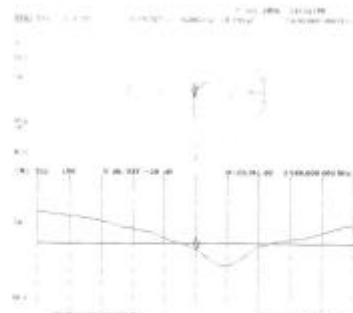
Dipole Calibration for Body Tissue (Plan=250 mW, d=1mm Zoom Scan (7x7) Cube B):  
Measurement grid: 4x4x4mm; d=1mm; d=1mm  
Reference Value: 109.3 mW (Plane D0) = 0.07 dB  
Peak SAR (measured) = 27.8 W/kg  
SAR10 g = 13.6 W/kg; SAR30 g = 6.06 W/kg  
Maximum value of SAR (measured) = 21.9 W/kg



File Name: 17070301\_008\_01.0

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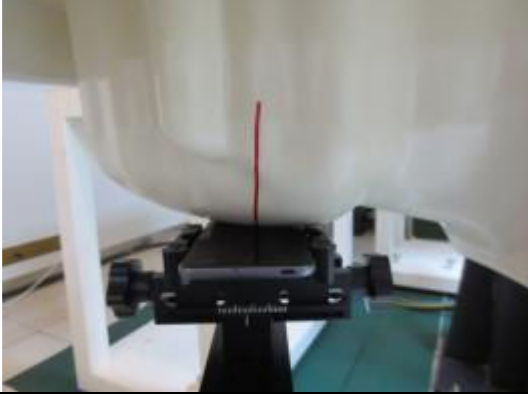
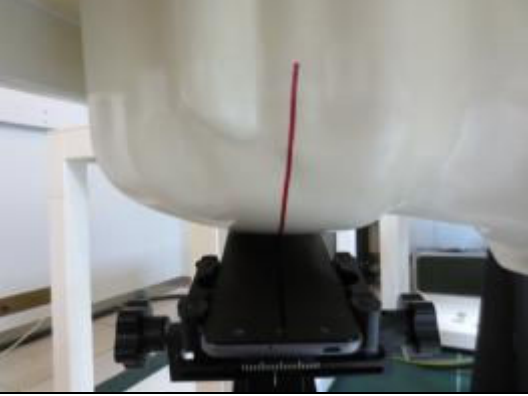


Impedance Measurement Plot for Body TSL



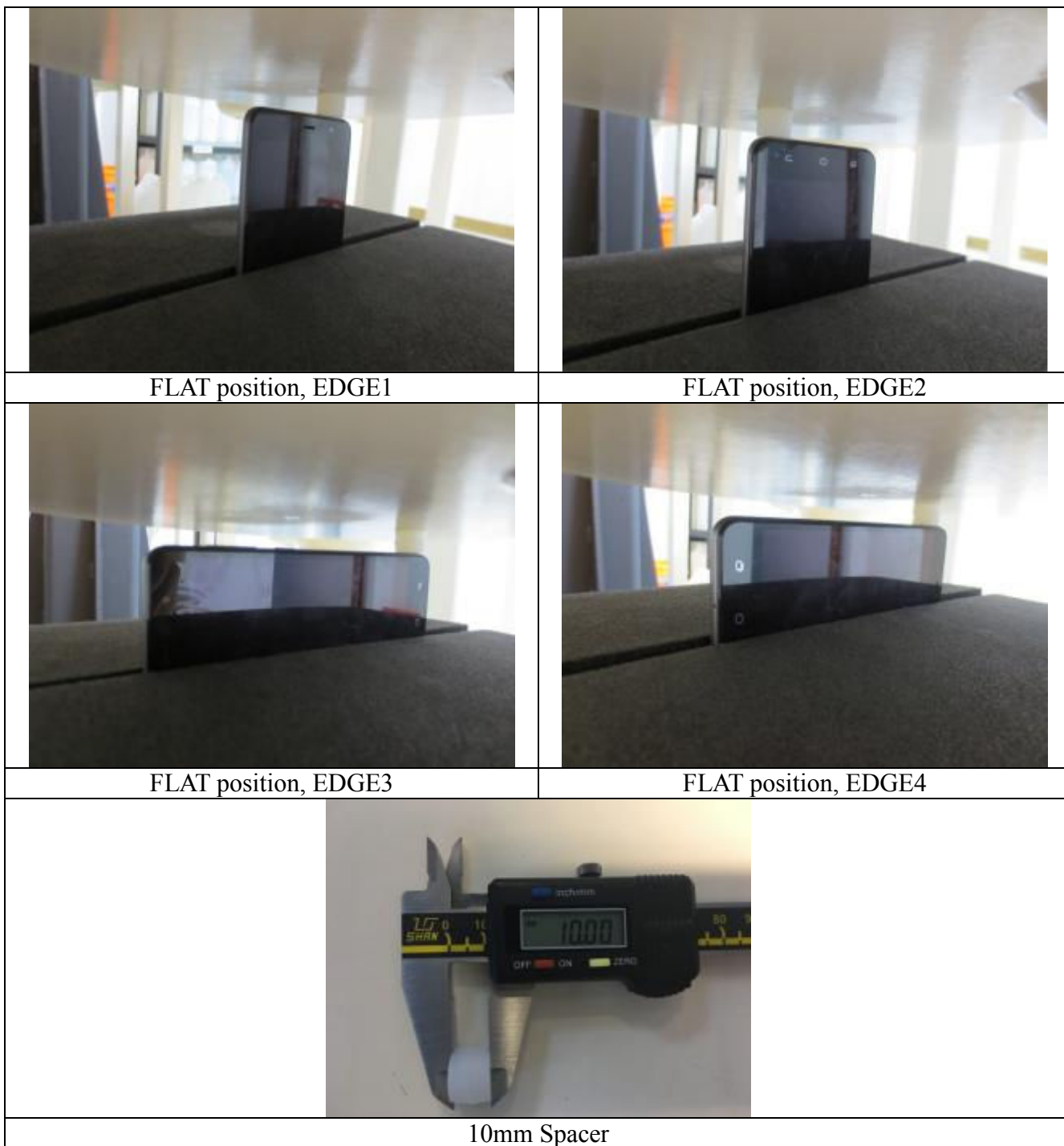
File Name: 17070301\_008\_01.0

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**ANNEX C – PHOTOGRAPH**

	
<p>Check position, left side</p>	<p>Tilt position, left side</p>
	
<p>Check position, Right side</p>	<p>Tilt position, Right side</p>
	
<p>FLAT position, Towards phantom</p>	<p>FLAT position, Towards ground</p>





---End of Test Report---