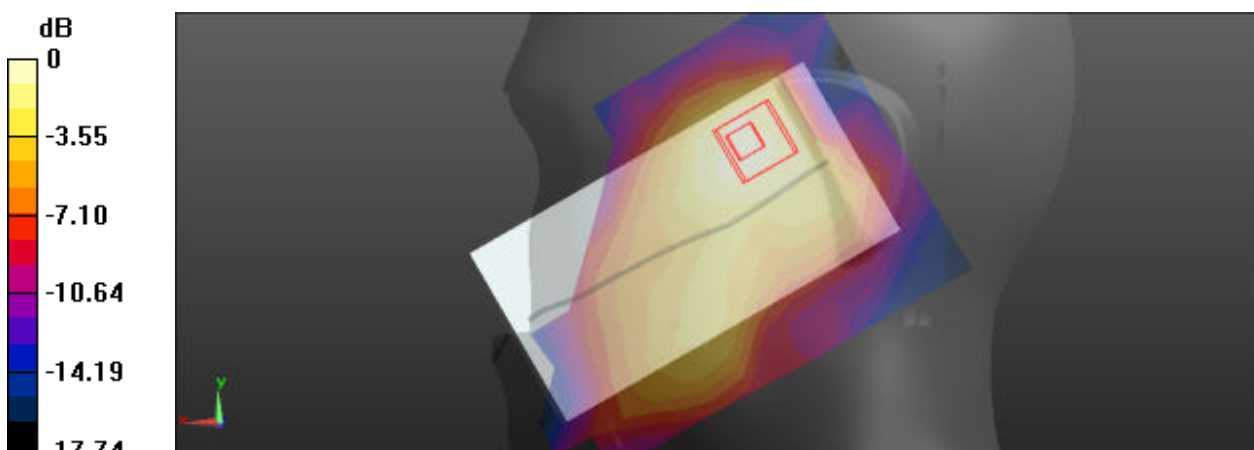
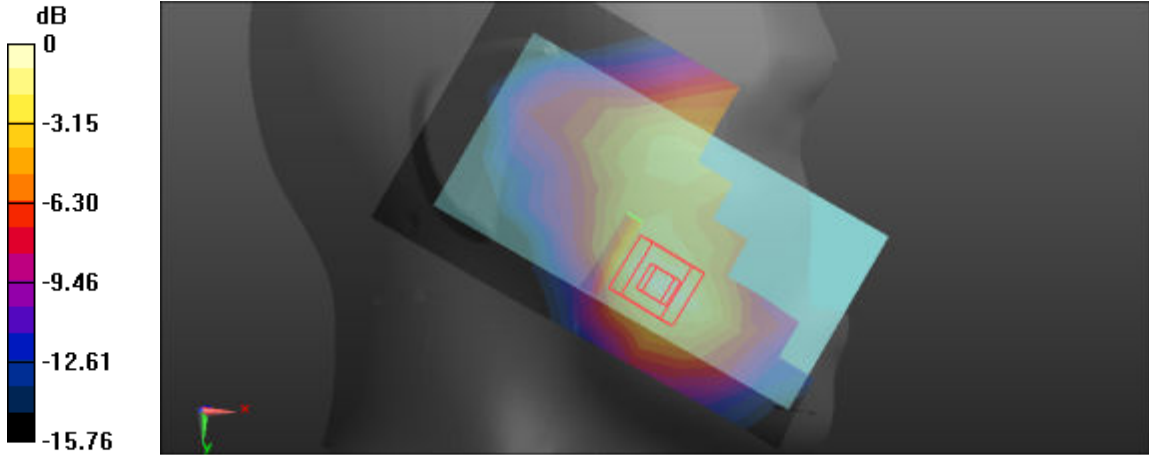
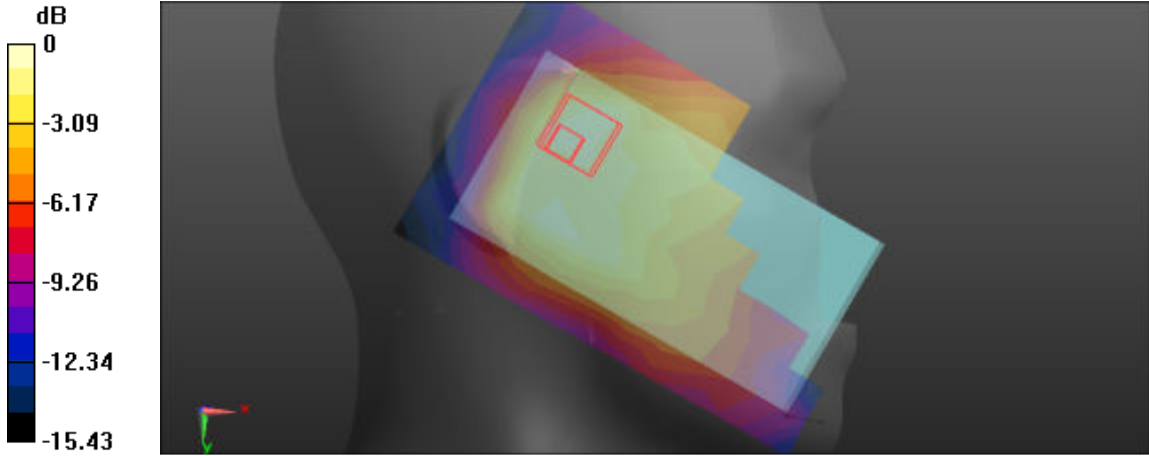
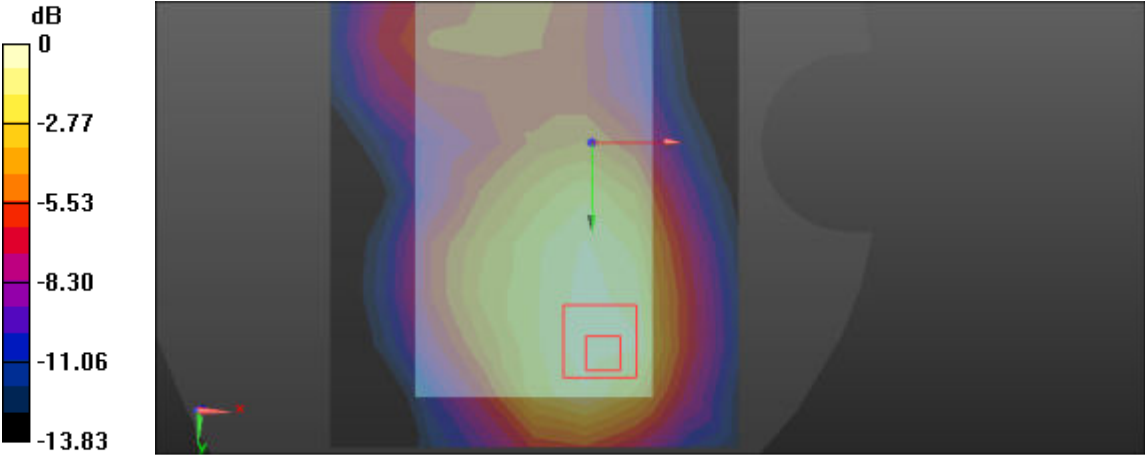
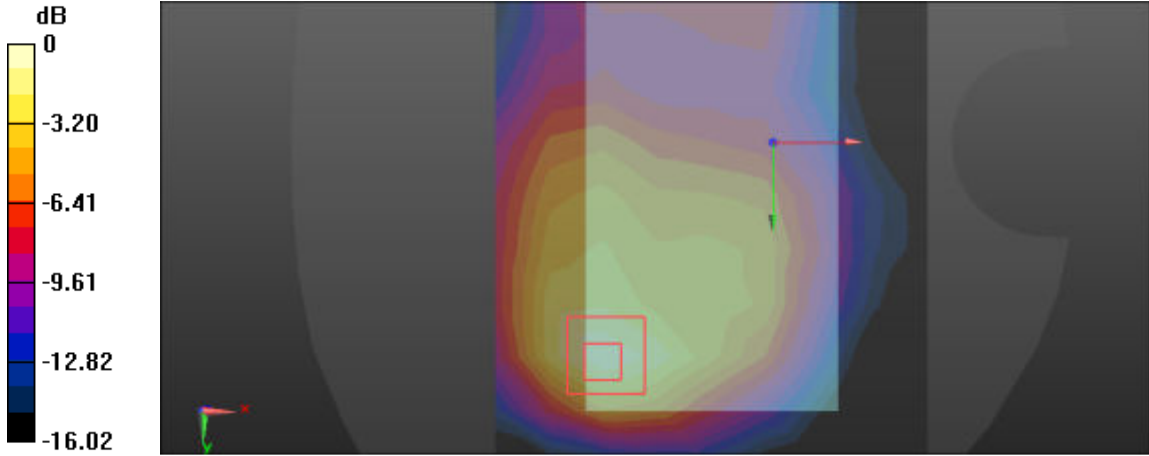


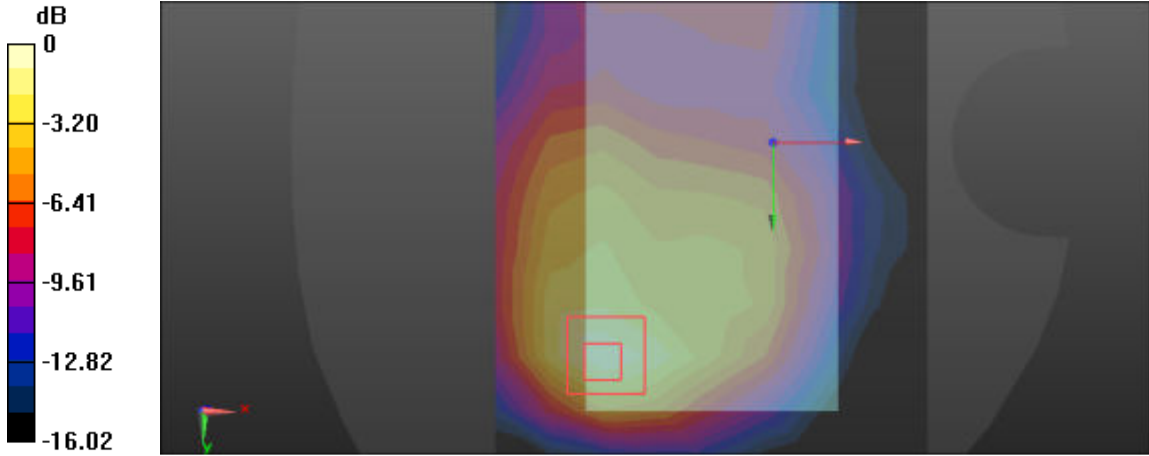
Left Side	Tilt
Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.45 \text{ S/m}$; $\epsilon_r = 39.74$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Left Section DASY5 Configuration: - Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); 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) Head-Section HSL wcdma band2 Left/wcdma band2 HSL tilt M/Area Scan (9x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.124 W/kg Head-Section HSL wcdma band2 Left/wcdma band2 HSL tilt M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 7.227 V/m; Power Drift = 0.13 dB Peak SAR (extrapolated) = 0.192 W/kg SAR(1 g) = 0.126 W/kg; SAR(10 g) = 0.080 W/kg Maximum value of SAR (measured) = 0.136 W/kg	
 0 dB = 0.136 W/kg = -8.66 dBW/kg	

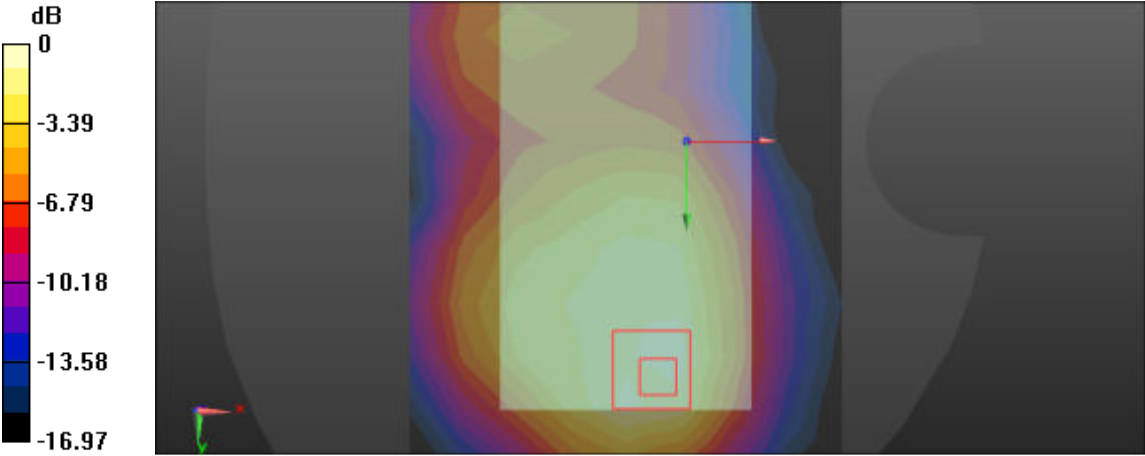
Right Side	Cheek
Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.45 \text{ S/m}$; $\epsilon_r = 39.74$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Right Section DASY5 Configuration: - Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); 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) Head-Section HSL wcdma band2 Right/wcdma band2 HSL touch M/Area Scan (8x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.264 W/kg Head-Section HSL wcdma band2 Right/wcdma band2 HSL touch M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 3.458 V/m; Power Drift = 0.00 dB Peak SAR (extrapolated) = 0.380 W/kg SAR(1 g) = 0.250 W/kg; SAR(10 g) = 0.152 W/kg Maximum value of SAR (measured) = 0.272 W/kg  0 dB = 0.272 W/kg = -5.65 dBW/kg	

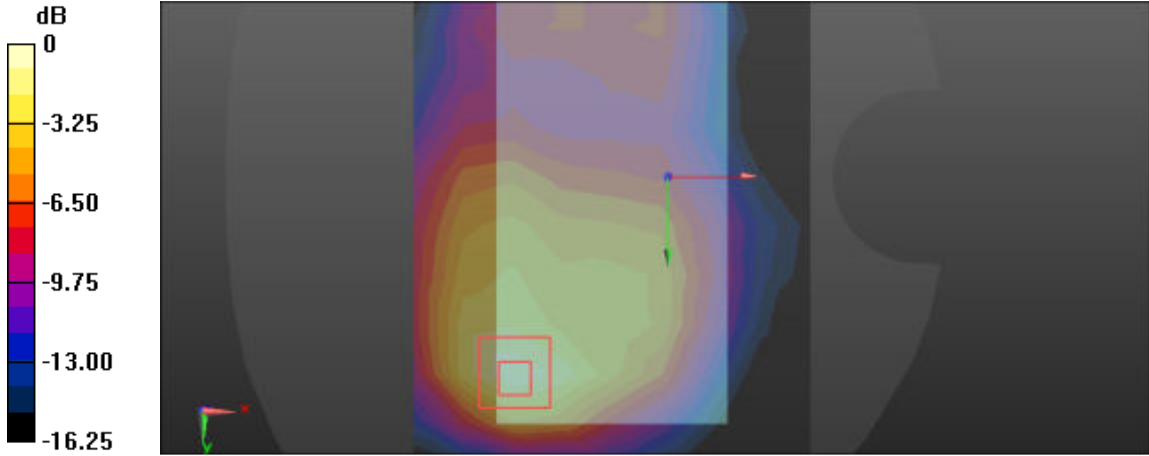
Right Side	Tilt
Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.45 \text{ S/m}$; $\epsilon_r = 39.74$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Right Section DASY5 Configuration: - Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); 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) Head-Section HSL wcdma band2 Right/wcdma band2 HSL tilt/Area Scan (8x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.0881 W/kg Head-Section HSL wcdma band2 Right/wcdma band2 HSL tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 6.343 V/m; Power Drift = 0.21 dB Peak SAR (extrapolated) = 0.129 W/kg SAR(1 g) = 0.087 W/kg; SAR(10 g) = 0.052 W/kg Maximum value of SAR (measured) = 0.0953 W/kg  0 dB = 0.0953 W/kg = -10.21 dBW/kg	

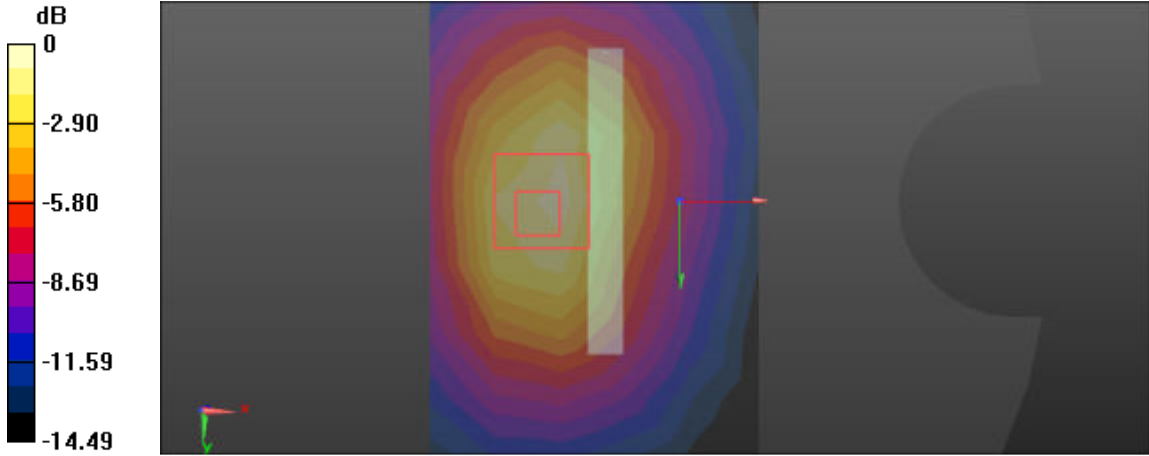
FLAT(VIOCE)	Towards phantom
Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.57 \text{ S/m}$; $\epsilon_r = 51.14$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section DASY5 Configuration: - Probe: EX3DV4 - 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 band2 TG&TP/wcdma band2 TP voice M 10mm/Area Scan (9x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.461 W/kg Flat-Section MSL wcdma band2 TG&TP/wcdma band2 TP voice M 10mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 9.598 V/m; Power Drift = -0.07 dB Peak SAR (extrapolated) = 0.794 W/kg SAR(1 g) = 0.454 W/kg; SAR(10 g) = 0.276 W/kg Maximum value of SAR (measured) = 0.488 W/kg	
 0 dB = 0.488 W/kg = -3.12 dBW/kg	

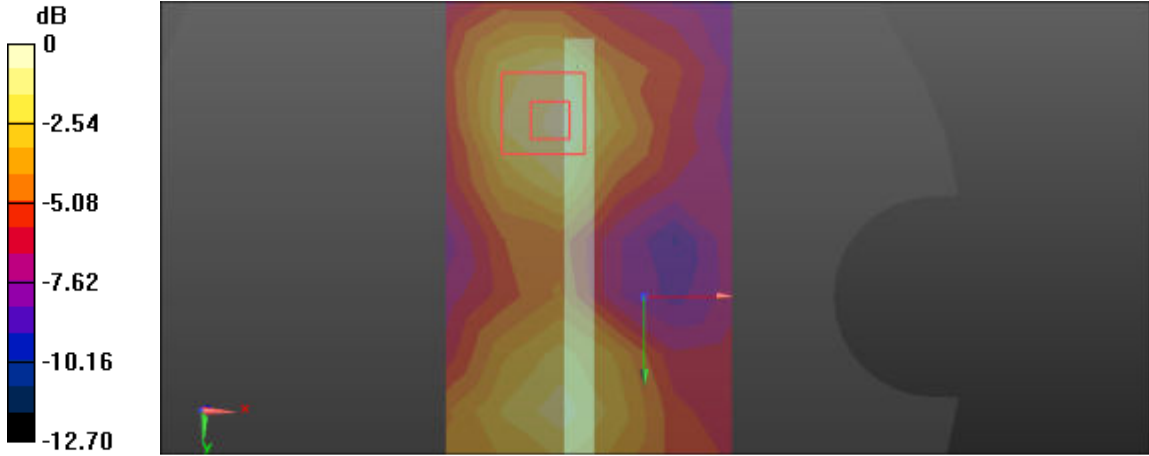
FLAT(VIOCE)	Towards ground
Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.57 \text{ S/m}$; $\epsilon_r = 51.14$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section DASY5 Configuration: - Probe: EX3DV4 - 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 band2 TG&TP/wcdma band2 TG voice M 10mm/Area Scan (9x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.637 W/kg Flat-Section MSL wcdma band2 TG&TP/wcdma band2 TG voice M 10mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 9.305 V/m; Power Drift = -0.02 dB Peak SAR (extrapolated) = 1.01 W/kg SAR(1 g) = 0.572 W/kg; SAR(10 g) = 0.315 W/kg Maximum value of SAR (measured) = 0.632 W/kg  0 dB = 0.632 W/kg = -1.99 dBW/kg	

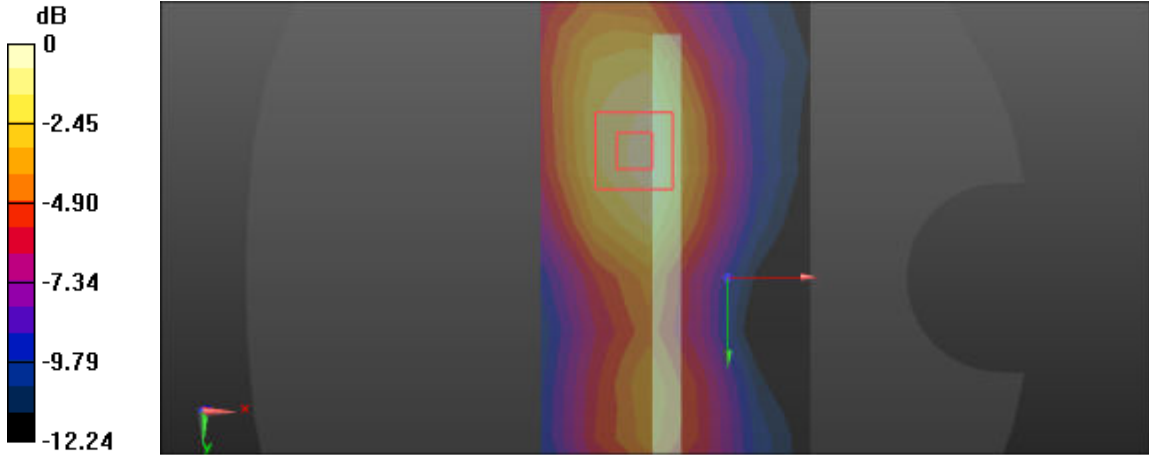
FLAT(VIOCE)	Towards ground
Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.57 \text{ S/m}$; $\epsilon_r = 51.14$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section DASY5 Configuration: - Probe: EX3DV4 - 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 band2 TG&TP/wcdma band2 TG voice M 10mm/Area Scan (9x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.562 W/kg Flat-Section MSL wcdma band2 TG&TP/wcdma band2 TG voice M 10mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 8.866 V/m; Power Drift = -0.12 dB Peak SAR (extrapolated) = 0.94 W/kg SAR(1 g) = 0.533 W/kg; SAR(10 g) = 0.275 W/kg Maximum value of SAR (measured) = 0.613 W/kg  0 dB = 0.0842 W/kg = -10.37 dBW/kg	

FLAT(DATA)	Towards phantom
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: - 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 band2 TG&TP/wcdma band2 TP DATA M 10mm/Area Scan (9x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.403 W/kg Flat-Section MSL wcdma band2 TG&TP/wcdma band2 TP DATA M 10mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 8.642 V/m; Power Drift = 0.08 dB Peak SAR (extrapolated) = 0.736 W/kg SAR(1 g) = 0.418 W/kg; SAR(10 g) = 0.241 W/kg Maximum value of SAR (measured) = 0.457 W/kg  0 dB = 0.457 W/kg = -3.40 dBW/kg	

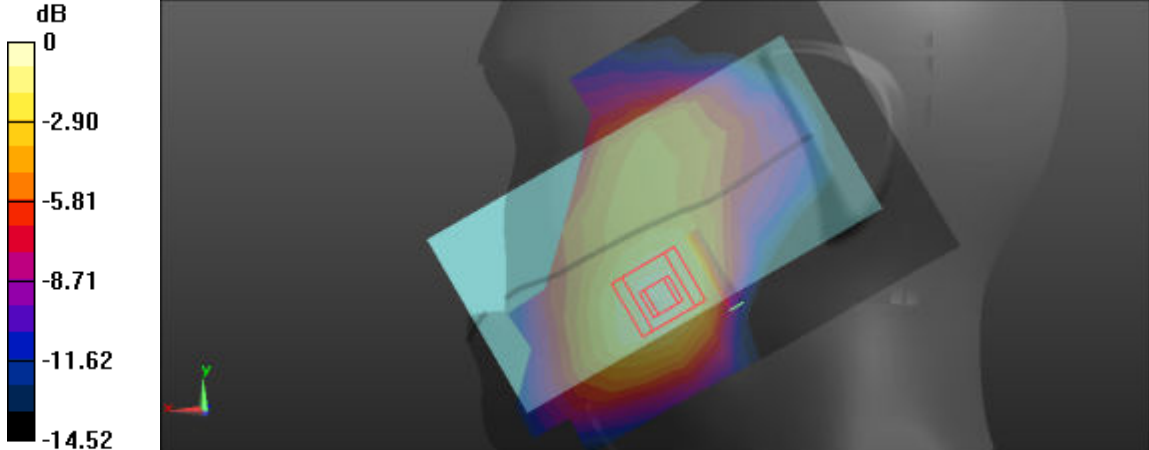
FLAT(DATA)	Towards ground
Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.57 \text{ S/m}$; $\epsilon_r = 51.14$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section DASY5 Configuration: - Probe: EX3DV4 - SN3708; 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 band2 TG&TP/wcdma band2 TG DATA M 10mm/Area Scan (9x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.628 W/kg Flat-Section MSL wcdma band2 TG&TP/wcdma band2 TG DATA M 10mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 8.611 V/m; Power Drift = 0.14 dB Peak SAR (extrapolated) = 0.999 W/kg SAR(1 g) = 0.568 W/kg; SAR(10 g) = 0.314 W/kg Maximum value of SAR (measured) = 0.633 W/kg  0 dB = 0.0853 W/kg = -10.69 dBW/kg	

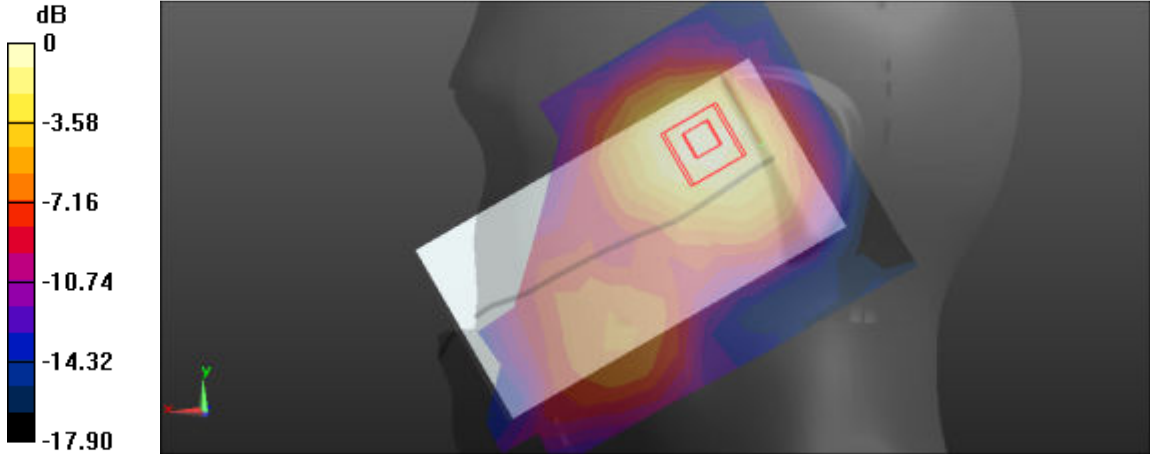
FLAT	EDGE2
Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.57 \text{ S/m}$; $\epsilon_r = 51.14$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section DASY5 Configuration: - Probe: EX3DV4 - SN3708; ConvF(7.79, 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 band2 HOT/wcdma band2 10mm M edge 2/Area Scan (6x11x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.542 W/kg Flat-Section MSL wcdma band2 HOT/wcdma band2 10mm M edge 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 13.82 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 0.893 W/kg SAR(1 g) = 0.541 W/kg; SAR(10 g) = 0.313 W/kg Maximum value of SAR (measured) = 0.593 W/kg  0 dB = 0.593 W/kg = -2.27 dBW/kg	

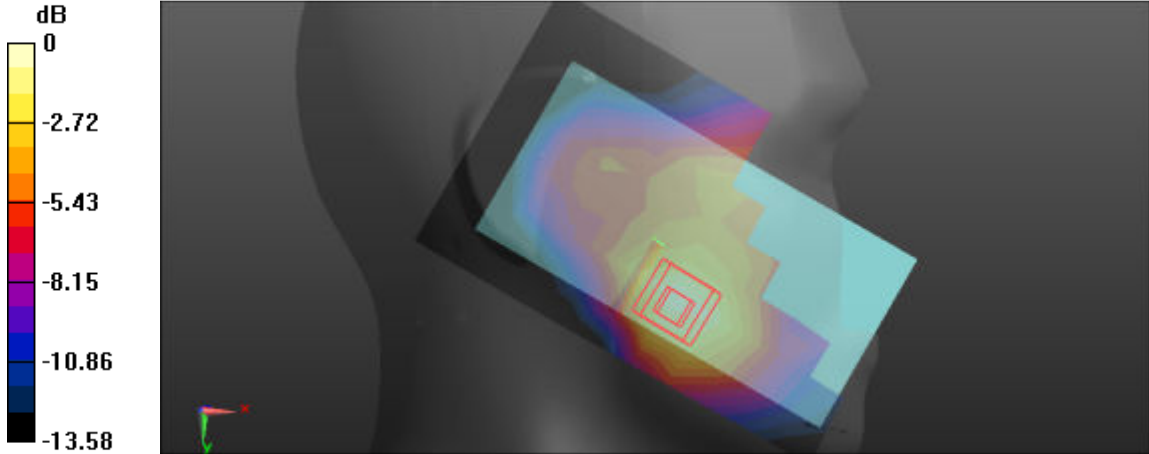
FLAT	EDGE3
Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.57 \text{ S/m}$; $\epsilon_r = 51.14$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section DASY5 Configuration: - Probe: EX3DV4 - SN3708; ConvF(7.79, 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 band2 HOT/wcdma band2 10mm M edge 3/Area Scan (6x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.0766 W/kg Flat-Section MSL wcdma band2 HOT/wcdma band2 10mm M edge 3/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 4.139 V/m; Power Drift = 0.07 dB Peak SAR (extrapolated) = 0.131 W/kg SAR(1 g) = 0.080 W/kg; SAR(10 g) = 0.051 W/kg Maximum value of SAR (measured) = 0.0853 W/kg  0 dB = 0.0853 W/kg = -10.69 dBW/kg	

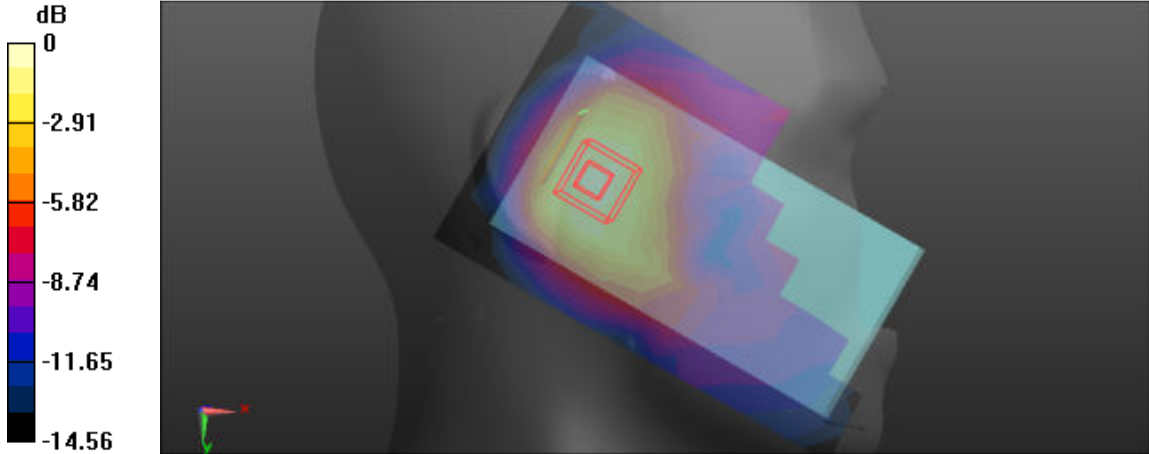
FLAT	EDGE4
Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.57 \text{ S/m}$; $\epsilon_r = 51.14$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section DASY5 Configuration: - Probe: EX3DV4 - SN3708; ConvF(7.79, 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 band2 HOT/wcdma band2 10mm M edge 4/Area Scan (6x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.392 W/kg Flat-Section MSL wcdma band2 HOT/wcdma band2 10mm M edge 4/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 9.672 V/m; Power Drift = 0.18 dB Peak SAR (extrapolated) = 0.604 W/kg SAR(1 g) = 0.382 W/kg; SAR(10 g) = 0.234 W/kg Maximum value of SAR (measured) = 0.415 W/kg  0 dB = 0.415 W/kg = -3.82 dBW/kg	

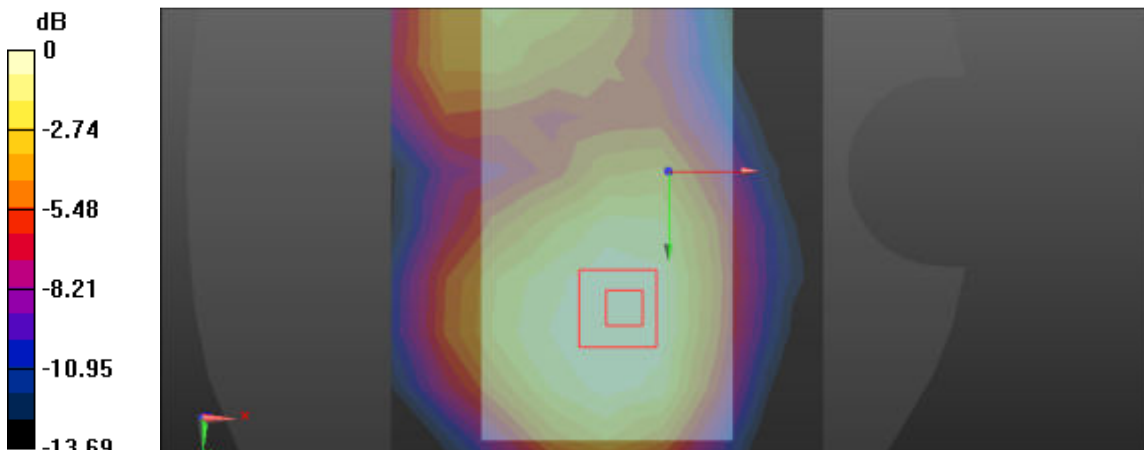
WCDMA Band 4

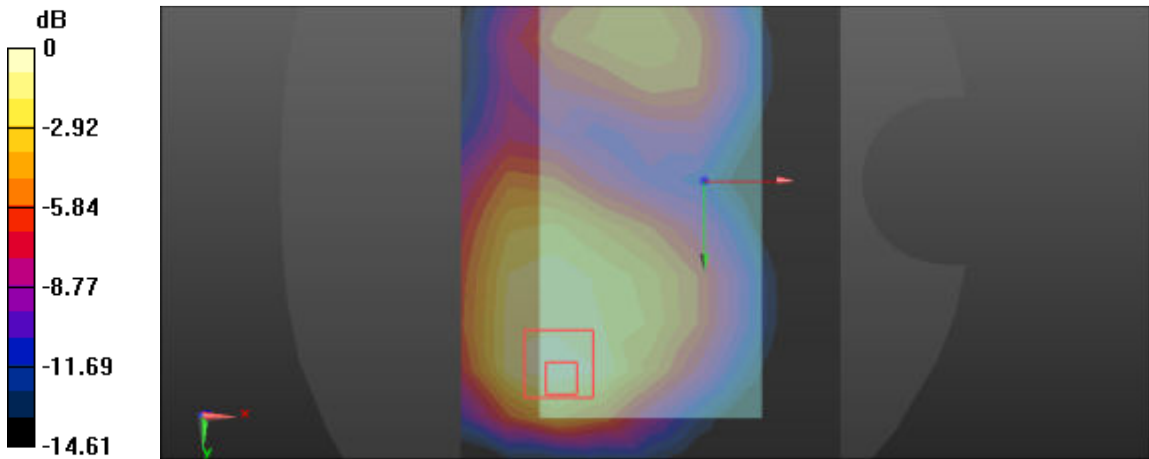
Left Side	Cheek
Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz; Duty Cycle: 1:1.95434 Medium parameters used (interpolated): $f = 1732.6$ MHz; $\sigma = 1.304$ S/m; $\epsilon_r = 40.408$; $\rho = 1000$ kg/m³ Phantom section: Left Section DASY5 Configuration: - Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); 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) Head-Section HSL wcdma band4 Left/wcdma band4 HSL touch M/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.345 W/kg Head-Section HSL wcdma band4 Left/wcdma band4 HSL touch M/Zoom Scan (7x7x7)/Cube 0: 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 SAR(1 g) = 0.353 W/kg; SAR(10 g) = 0.230 W/kg Maximum value of SAR (measured) = 0.379 W/kg	
 0 dB = 0.379 W/kg = -4.21 dBW/kg	

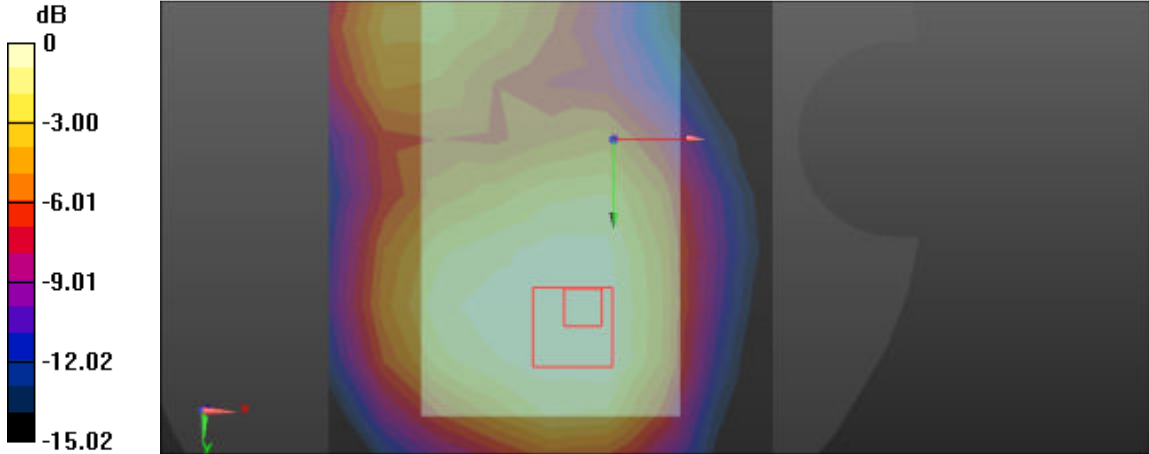
Left Side	Tilt
Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz; Duty Cycle: 1:1.95434 Medium parameters used (interpolated): $f = 1732.6$ MHz; $\sigma = 1.304$ S/m; $\epsilon_r = 40.408$; $\rho = 1000$ kg/m³ Phantom section: Left Section DASY5 Configuration: - Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); 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) Head-Section HSL wcdma band4 Left/wcdma band4 HSL tilt M/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.209 W/kg Head-Section HSL wcdma band4 Left/wcdma band4 HSL tilt M/Zoom Scan (7x7x7)/Cube 0: 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 SAR(1 g) = 0.200 W/kg; SAR(10 g) = 0.133 W/kg Maximum value of SAR (measured) = 0.213 W/kg	
 0 dB = 0.213 W/kg = -6.72 dBW/kg	

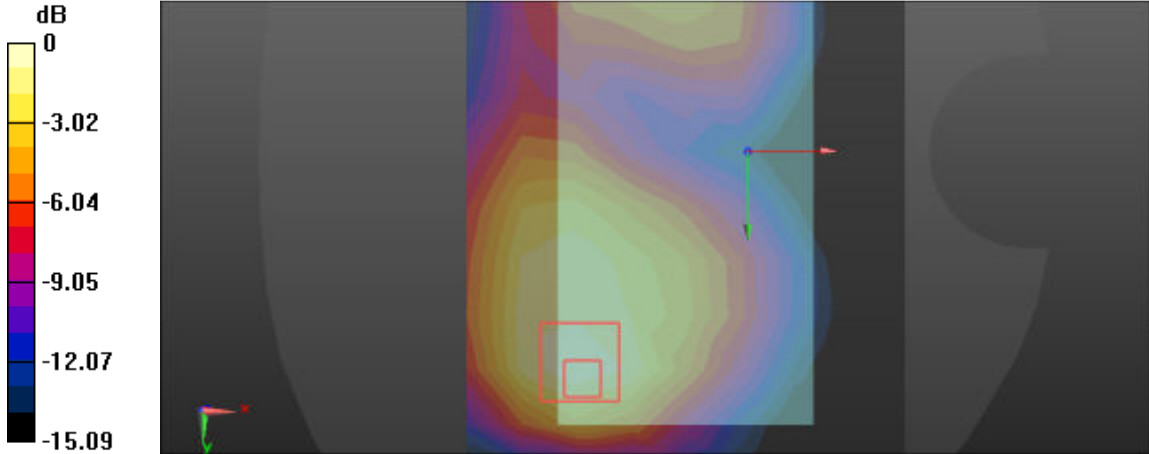
Right Side	Cheek
Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz; Duty Cycle: 1:1.95434 Medium parameters used (interpolated): $f = 1732.6$ MHz; $\sigma = 1.304$ S/m; $\epsilon_r = 40.408$; $\rho = 1000$ kg/m³ Phantom section: Right Section DASY5 Configuration: - Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); 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) Head-Section HSL wcdma band4 Right/wcdma band4 HSL touch M/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.260 W/kg Head-Section HSL wcdma band4 Right/wcdma band4 HSL touch M/Zoom Scan (7x7x7)/Cube 0: 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 SAR(1 g) = 0.246 W/kg; SAR(10 g) = 0.157 W/kg Maximum value of SAR (measured) = 0.265 W/kg	
 0 dB = 0.265 W/kg = -5.77 dBW/kg	

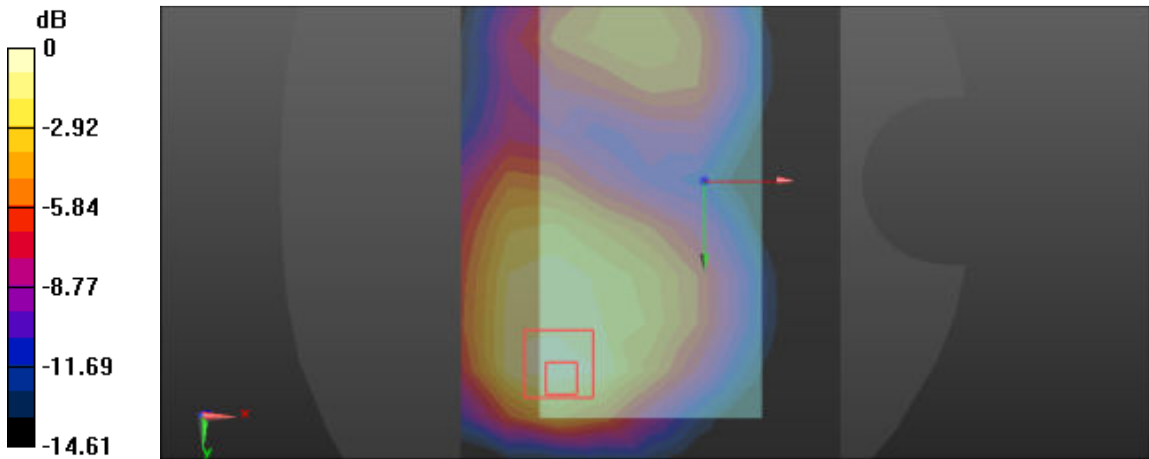
Right Side	Tilt
Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz; Duty Cycle: 1:1.95434 Medium parameters used (interpolated): $f = 1732.6$ MHz; $\sigma = 1.304$ S/m; $\epsilon_r = 40.408$; $\rho = 1000$ kg/m³ Phantom section: Right Section DASY5 Configuration: - Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); 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) Head-Section HSL wcdma band4 Right/wcdma band4 HSL tilt/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.168 W/kg Head-Section HSL wcdma band4 Right/wcdma band4 HSL tilt/Zoom Scan (7x7x7)/Cube 0: 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 SAR(1 g) = 0.170 W/kg; SAR(10 g) = 0.110 W/kg Maximum value of SAR (measured) = 0.184 W/kg	
 0 dB = 0.184 W/kg = -7.35 dBW/kg	

FLAT(VIOCE)	Towards phantom
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/m³ 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 TG&TP/wcdma band4 TP voice M 10mm/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.399 W/kg Flat-Section MSL wcdma band4 TG&TP/wcdma band4 TP voice M 10mm/Zoom Scan (7x7x7)/Cube 0: 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 SAR(1 g) = 0.380 W/kg; SAR(10 g) = 0.251 W/kg Maximum value of SAR (measured) = 0.404 W/kg	
 0 dB = 0.404 W/kg = -3.94 dBW/kg	

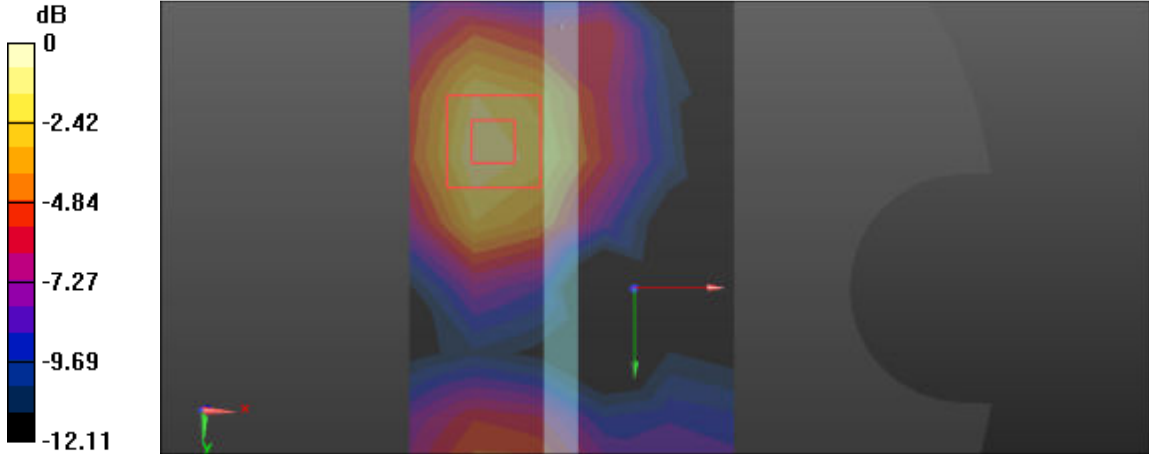
FLAT(VIOCE)	Towards ground
Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz;Duty Cycle: 1:1.95434 Medium parameters used (interpolated): $f = 1732.6$ MHz; $\sigma = 1.404$ S/m; $\epsilon_r = 51.622$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY5 Configuration: - 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 TG&TP/wcdma band4 TG voice M 10mm/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.725 W/kg Flat-Section MSL wcdma band4 TG&TP/wcdma band4 TG voice M 10mm/Zoom Scan (7x7x7)/Cube 0: 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 SAR(1 g) = 0.662 W/kg; SAR(10 g) = 0.389 W/kg Maximum value of SAR (measured) = 0.730 W/kg  0 dB = 0.730 W/kg = -1.37 dBW/kg	

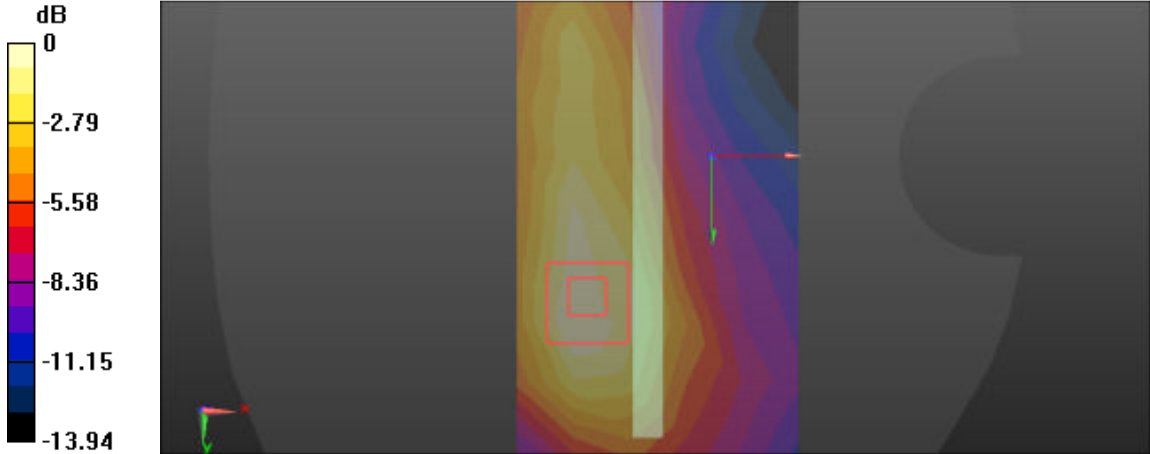
FLAT(DATA)	Towards phantom
Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz; Duty Cycle: 1:1.95434 Medium parameters used (interpolated): $f = 1732.6$ MHz; $\sigma = 1.404$ S/m; $\epsilon_r = 51.622$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY5 Configuration: - 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 TG&TP/wcdma band4 TP DATA M 10mm/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.413 W/kg Flat-Section MSL wcdma band4 TG&TP/wcdma band4 TP DATA M 10mm/Zoom Scan (7x7x7)/Cube 0: 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 SAR(1 g) = 0.402 W/kg; SAR(10 g) = 0.264 W/kg Maximum value of SAR (measured) = 0.428 W/kg	
 0 dB = 0.428 W/kg = -3.69 dBW/kg	

FLAT(DATA)	Towards ground
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/m³ 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 TG&TP/wcdma band4 TG DATA M 10mm/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.760 W/kg Flat-Section MSL wcdma band4 TG&TP/wcdma band4 TG DATA M 10mm/Zoom Scan (7x7x7)/Cube 0: 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 SAR(1 g) = 0.702 W/kg; SAR(10 g) = 0.420 W/kg Maximum value of SAR (measured) = 0.768 W/kg	
 0 dB = 0.768 W/kg = -1.15 dBW/kg	

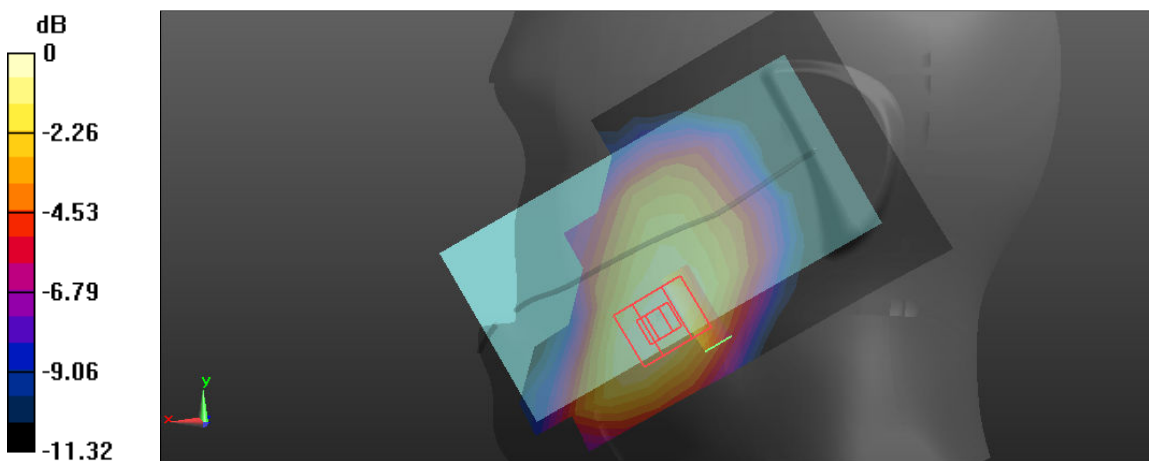
FLAT(VIOCE)	Towards ground
Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz;Duty Cycle: 1:1.95434 Medium parameters used (interpolated): $f = 1732.6$ MHz; $\sigma = 1.404$ S/m; $\epsilon_r = 51.622$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY5 Configuration: - 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 TG&TP/wcdma band4 TG voice M 10mm/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.641 W/kg Flat-Section MSL wcdma band4 TG&TP/wcdma band4 TG voice M 10mm/Zoom Scan (7x7x7)/Cube 0: 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 SAR(1 g) = 0.611 W/kg; SAR(10 g) = 0.292 W/kg Maximum value of SAR (measured) = 0.613 W/kg  0 dB = 0.630 W/kg = -1.22 dBW/kg	

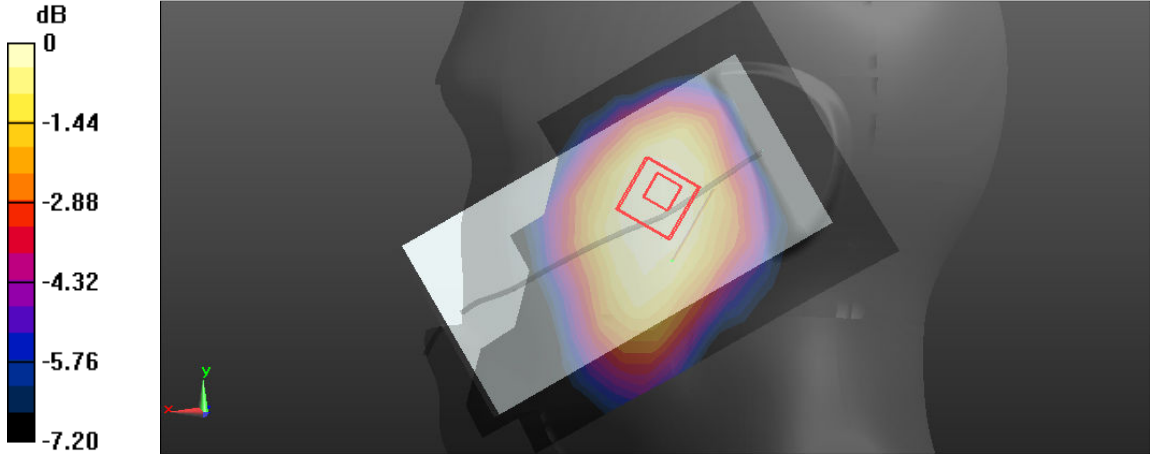
FLAT	EDGE2
Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz; Duty Cycle: 1:1.95434 Medium parameters used (interpolated): $f = 1732.6$ MHz; $\sigma = 1.404$ S/m; $\epsilon_r = 51.622$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY5 Configuration: - Probe: EX3DV4 - 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 dB 0 -2.30 -4.61 -6.91 -9.22 -11.52 0 dB = 0.413 W/kg = -3.84 dBW/kg	

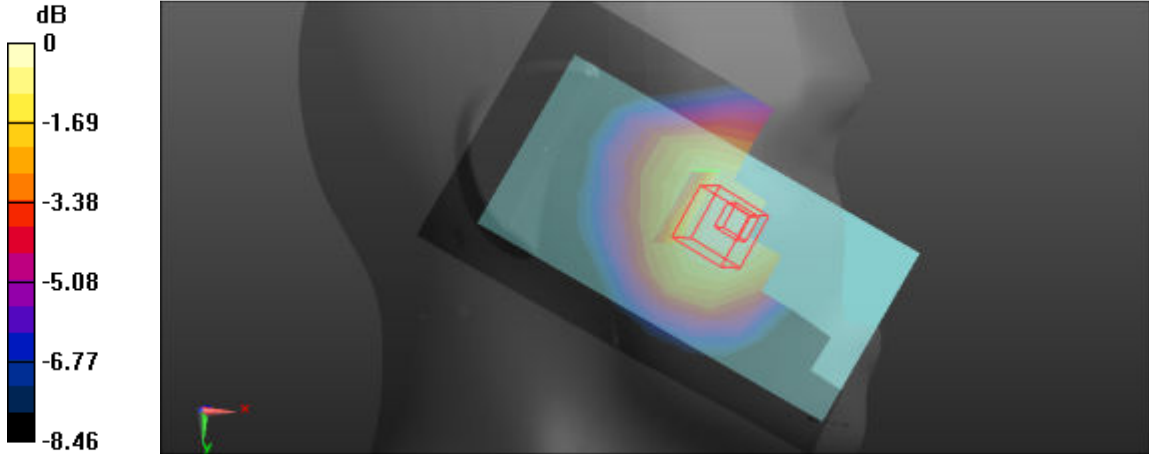
FLAT	EDGE3
Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz; Duty Cycle: 1:1.95434 Medium parameters used (interpolated): $f = 1732.6$ MHz; $\sigma = 1.404$ S/m; $\epsilon_r = 51.622$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY5 Configuration: - Probe: EX3DV4 - 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 3/Area Scan (6x15x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.124 W/kg Flat-Section MSL wcdma band4 HOT/wcdma band4 10mm M edge 3/Zoom Scan (7x7x7)/Cube 0: 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 SAR(1 g) = 0.130 W/kg; SAR(10 g) = 0.082 W/kg Maximum value of SAR (measured) = 0.147 W/kg	
 0 dB = 0.147 W/kg = -8.33 dBW/kg	

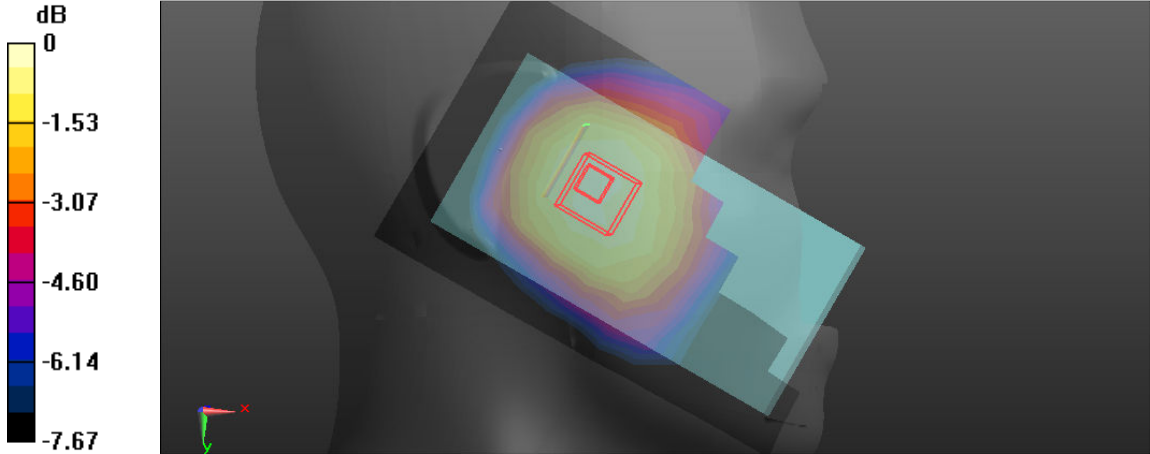
FLAT	EDGE4
Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz; Duty Cycle: 1:1.95434 Medium parameters used (interpolated): $f = 1732.6$ MHz; $\sigma = 1.404$ S/m; $\epsilon_r = 51.622$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY5 Configuration: - Probe: EX3DV4 - 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 4/Area Scan (6x15x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.226 W/kg Flat-Section MSL wcdma band4 HOT/wcdma band4 10mm M edge 4/Zoom Scan (7x7x7)/Cube 0: 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 SAR(1 g) = 0.186 W/kg; SAR(10 g) = 0.115 W/kg Maximum value of SAR (measured) = 0.207 W/kg	
 0 dB = 0.207 W/kg = -6.84 dBW/kg	

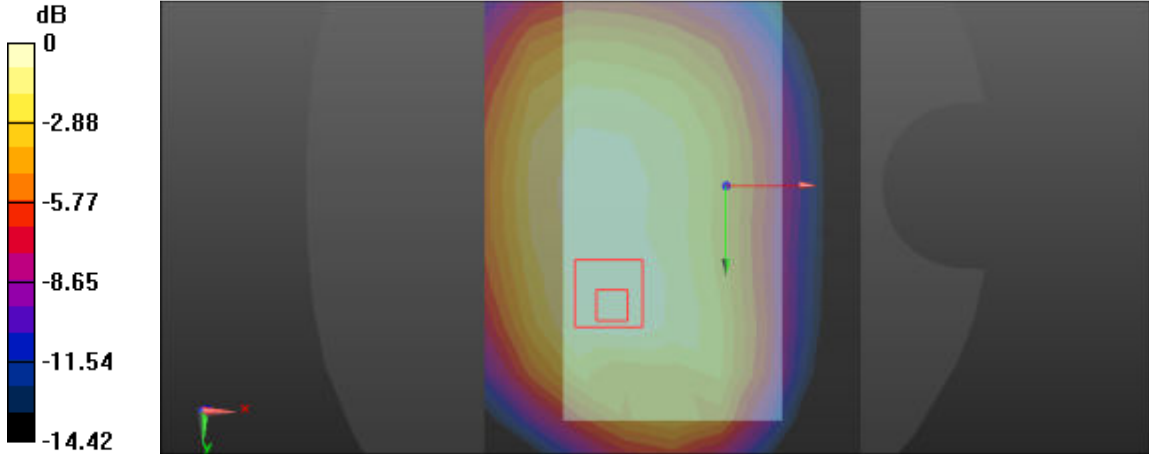
WCDMA Band 5

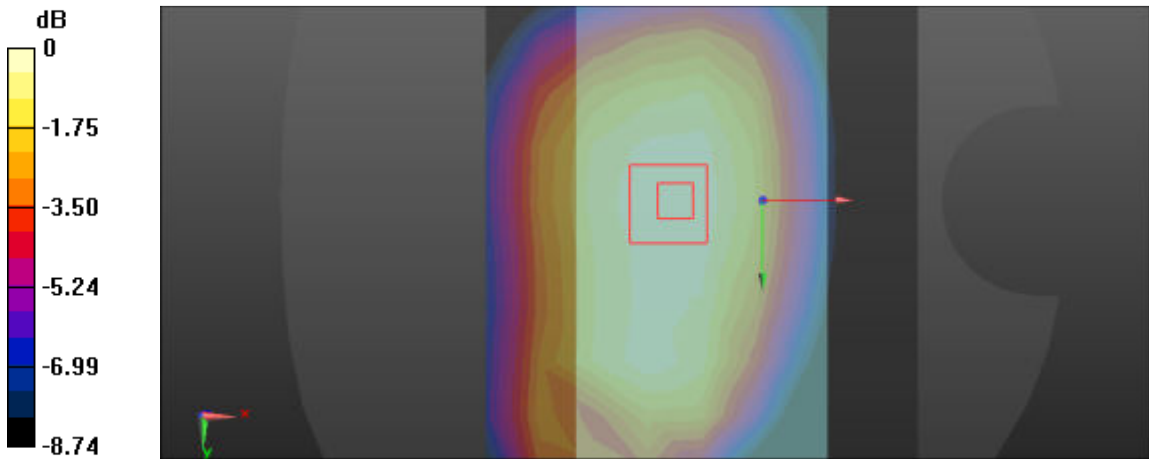
Left Side	Cheek
Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz; Duty Cycle: 1:1.95434 Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.89$ S/m; $\epsilon_r = 41.478$; $\rho = 1000$ kg/m³ Phantom section: Left Section DASY5 Configuration: - Probe: EX3DV4 - SN3708; ConvF(9.05, 9.05, 9.05); Calibrated: 2016/11/10; - Sensor-Surface: 3mm (Mechanical Surface Detection) - Electronics: DAE4 Sn720; Calibrated: 2016/10/31 - Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section HSL wcdma band5 Left/wcdma band5 HSL touch M/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.150 W/kg Head-Section HSL wcdma band5 Left/wcdma band5 HSL touch M/Zoom Scan (7x7x7)/Cube 0: 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 SAR(1 g) = 0.135 W/kg; SAR(10 g) = 0.096 W/kg Maximum value of SAR (measured) = 0.152 W/kg	
 0 dB = 0.152 W/kg = -8.18 dBW/kg	

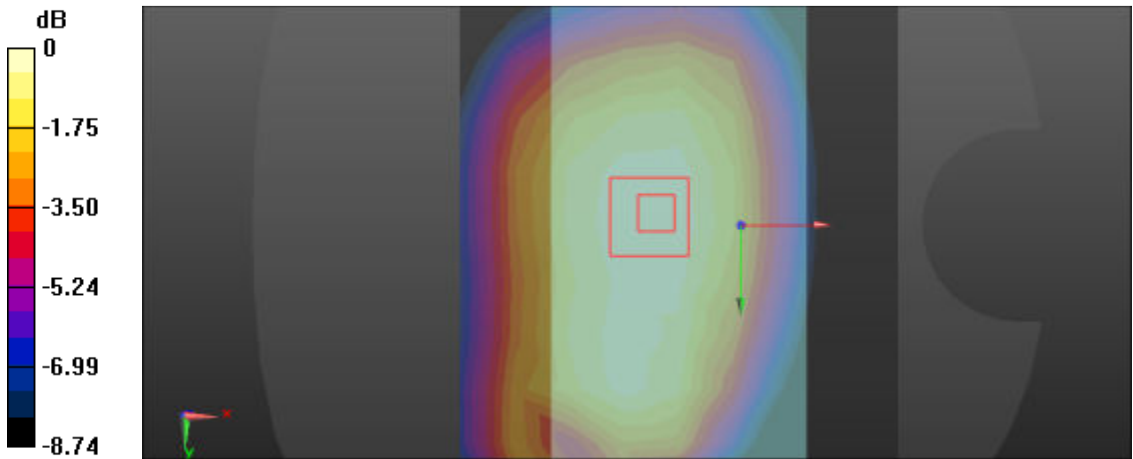
Left Side	Tilt
Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz; Duty Cycle: 1:1.95434 Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.89$ S/m; $\epsilon_r = 41.478$; $\rho = 1000$ kg/m³ Phantom section: Left Section DASY5 Configuration: - Probe: EX3DV4 - SN3708; ConvF(9.05, 9.05, 9.05); Calibrated: 2016/11/10; - Sensor-Surface: 3mm (Mechanical Surface Detection) - Electronics: DAE4 Sn720; Calibrated: 2016/10/31 - Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section HSL wcdma band5 Left/wcdma band5 HSL tilt/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.0711 W/kg Head-Section HSL wcdma band5 Left/wcdma band5 HSL tilt/Zoom Scan (7x7x7)/Cube 0: 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 SAR(1 g) = 0.065 W/kg; SAR(10 g) = 0.052 W/kg Maximum value of SAR (measured) = 0.0696 W/kg	
 0 dB = 0.0696 W/kg = -11.57 dBW/kg	

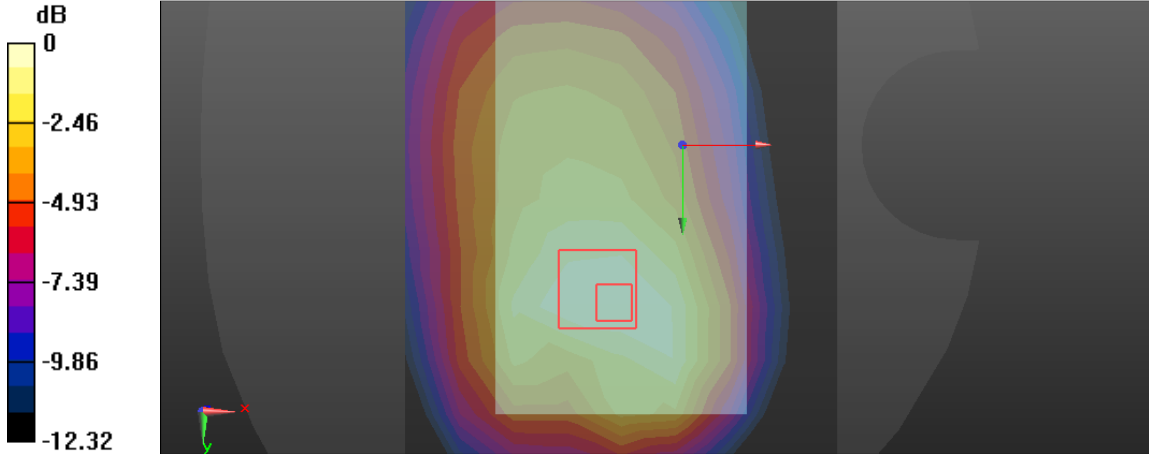
Right Side	Cheek
Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz; Duty Cycle: 1:1.95434 Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.89$ S/m; $\epsilon_r = 41.478$; $\rho = 1000$ kg/m³ Phantom section: Right Section DASY5 Configuration: - Probe: EX3DV4 - SN3708; ConvF(9.05, 9.05, 9.05); Calibrated: 2016/11/10; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn720; Calibrated: 2016/10/31 - Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section HSL wcdma band5 Right/wcdma band5 HSL touch M/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.142 W/kg Head-Section HSL wcdma band5 Right/wcdma band5 HSL touch M/Zoom Scan (7x7x7)/Cube 0: 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 SAR(1 g) = 0.141 W/kg; SAR(10 g) = 0.111 W/kg Maximum value of SAR (measured) = 0.148 W/kg	
 0 dB = 0.148 W/kg = -8.30 dBW/kg	

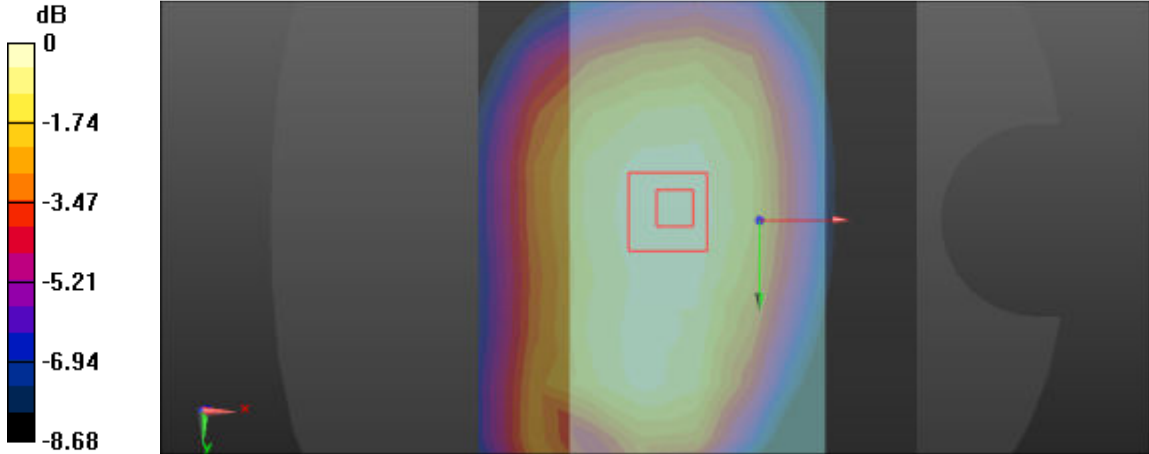
Right Side	Tilt
Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz; Duty Cycle: 1:1.95434 Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.89$ S/m; $\epsilon_r = 41.478$; $\rho = 1000$ kg/m³ Phantom section: Right Section DASY5 Configuration: - Probe: EX3DV4 - SN3708; ConvF(9.05, 9.05, 9.05); Calibrated: 2016/11/10; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn720; Calibrated: 2016/10/31 - Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section HSL wcdma band5 Right/wcdma band5 HSL tilt/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.0989 W/kg Head-Section HSL wcdma band5 Right/wcdma band5 HSL tilt/Zoom Scan (7x7x7)/Cube 0: 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 SAR(1 g) = 0.098 W/kg; SAR(10 g) = 0.078 W/kg Maximum value of SAR (measured) = 0.102 W/kg	
 0 dB = 0.102 W/kg = -9.91 dBW/kg	

FLAT(VIOCE)	Towards phantom
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; $\sigma = 0.96$ S/m; $\epsilon_r = 55.858$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY5 Configuration: - Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn720; Calibrated: 2016/10/31 - Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL wcdma band5 TG&TP/wcdma band5 TP voice M 10mm/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.280 W/kg Flat-Section MSL wcdma band5 TG&TP/wcdma band5 TP voice M 10mm/Zoom Scan (7x7x7)/Cube 0: 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 SAR(1 g) = 0.280 W/kg; SAR(10 g) = 0.205 W/kg Maximum value of SAR (measured) = 0.298 W/kg	
 0 dB = 0.298 W/kg = -5.26 dBW/kg	

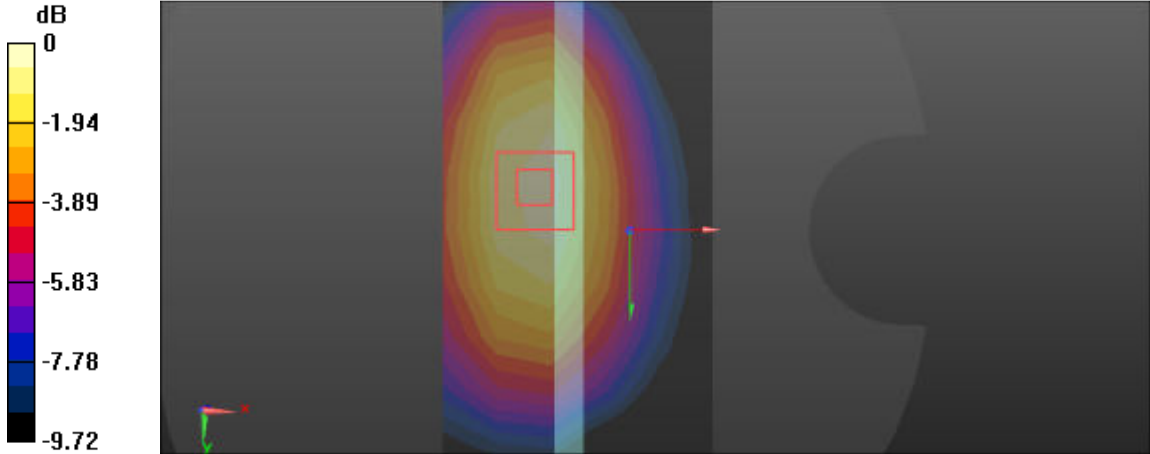
FLAT(VIOCE)	Towards ground
Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz;Duty Cycle: 1:1.95434 Medium parameters used (interpolated): f = 836.6 MHz; $\sigma = 0.96$ S/m; $\epsilon_r = 55.858$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY5 Configuration: - Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn720; Calibrated: 2016/10/31 - Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL wcdma band5 TG&TP/wcdma band5 TG voice M 10mm/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.346 W/kg Flat-Section MSL wcdma band5 TG&TP/wcdma band5 TG voice M 10mm/Zoom Scan (7x7x7)/Cube 0: 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 SAR(1 g) = 0.336 W/kg; SAR(10 g) = 0.253 W/kg Maximum value of SAR (measured) = 0.352 W/kg  0 dB = 0.352 W/kg = -4.53 dBW/kg	

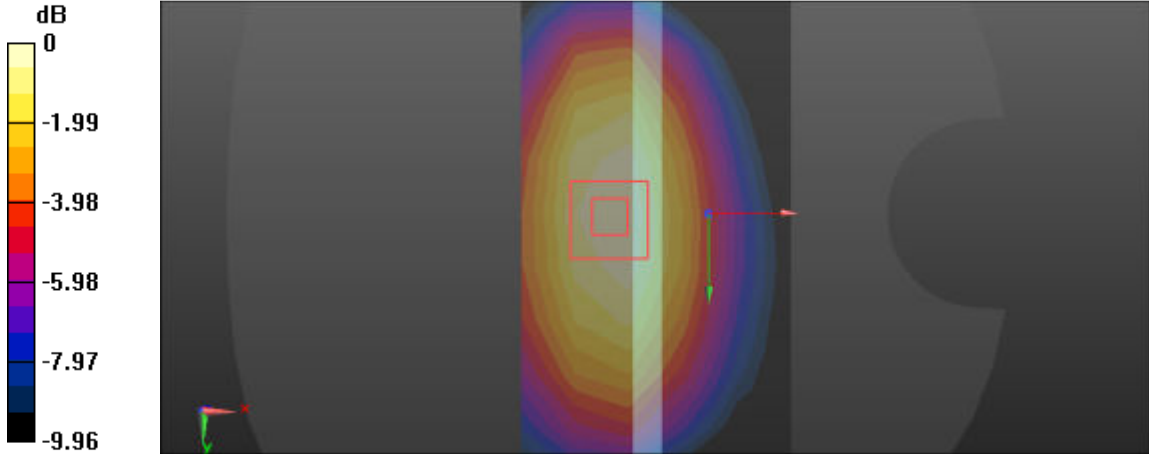
FLAT(VIOCE)	Towards ground
Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz;Duty Cycle: 1:1.95434 Medium parameters used (interpolated): f = 836.6 MHz; $\sigma = 0.96$ S/m; $\epsilon_r = 55.858$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY5 Configuration: - Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn720; Calibrated: 2016/10/31 - Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL wcdma band5 TG&TP/wcdma band5 TG voice M 10mm/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.237 W/kg Flat-Section MSL wcdma band5 TG&TP/wcdma band5 TG voice M 10mm/Zoom Scan (7x7x7)/Cube 0: 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 SAR(1 g) = 0.249 W/kg; SAR(10 g) = 0.201 W/kg Maximum value of SAR (measured) = 0.234 W/kg  0 dB = 0.351 W/kg = -4.55 dBW/kg	

FLAT(DATA)	Towards phantom
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; $\sigma = 0.96$ S/m; $\epsilon_r = 55.858$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY5 Configuration: - Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn720; Calibrated: 2016/10/31 - Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL wcdma band5 TG&TP/wcdma band5 TP DATA M 10mm/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.358 W/kg Flat-Section MSL wcdma band5 TG&TP/wcdma band5 TP DATA M 10mm/Zoom Scan (7x7x7)/Cube 0: 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 SAR(1 g) = 0.330 W/kg; SAR(10 g) = 0.223 W/kg Maximum value of SAR (measured) = 0.351 W/kg	
 0 dB = 0.351 W/kg = -4.55 dBW/kg	

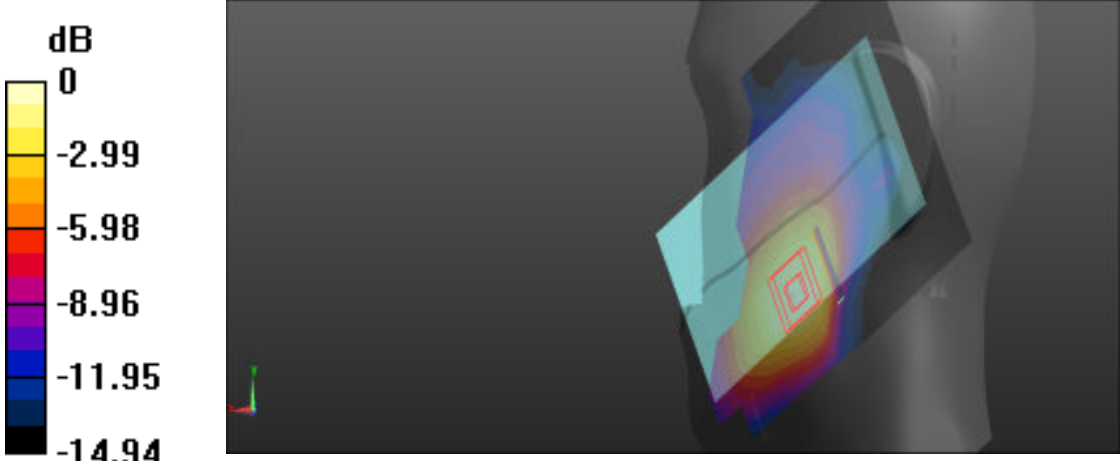
FLAT(DATA)	Towards ground
Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz; Duty Cycle: 1:1.95434 Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.96$ S/m; $\epsilon_r = 55.858$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY5 Configuration: - Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn720; Calibrated: 2016/10/31 - Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL wcdma band5 TG&TP/wcdma band5 TG DATA M 10mm/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.343 W/kg Flat-Section MSL wcdma band5 TG&TP/wcdma band5 TG DATA M 10mm/Zoom Scan (7x7x7)/Cube 0: 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 SAR(1 g) = 0.335 W/kg; SAR(10 g) = 0.252 W/kg Maximum value of SAR (measured) = 0.351 W/kg	
 0 dB = 0.351 W/kg = -4.55 dBW/kg	

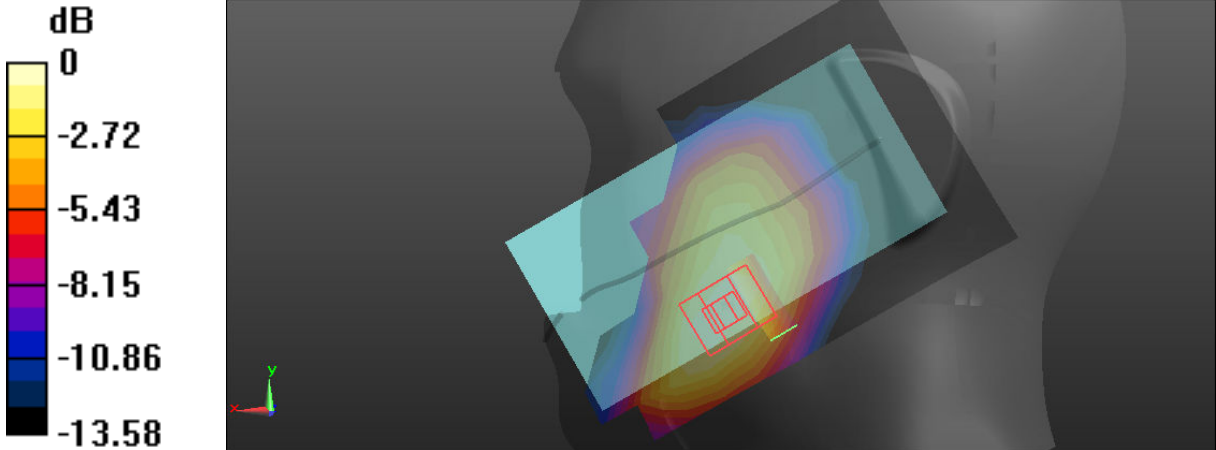
FLAT	EDGE2
Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz; Duty Cycle: 1:1.95434 Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.96$ S/m; $\epsilon_r = 55.858$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY5 Configuration: - Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10; - Sensor-Surface: 3mm (Mechanical Surface Detection) - Electronics: DAE4 Sn720; Calibrated: 2016/10/31 - Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL wcdma band5 HOT/wcdma band5 10mm M edge 2/Area Scan (6x11x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.0137 W/kg Flat-Section MSL wcdma band5 HOT/wcdma band5 10mm M edge 2/Zoom Scan (7x7x7)/Cube 0: 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 SAR(1 g) = 0.011 W/kg; SAR(10 g) = 0.00633 W/kg Maximum value of SAR (measured) = 0.0141 W/kg dB 0 -10.00 -20.00 -30.00 -40.00 -50.00 0 dB = 0.0141 W/kg = -18.51 dBW/kg	

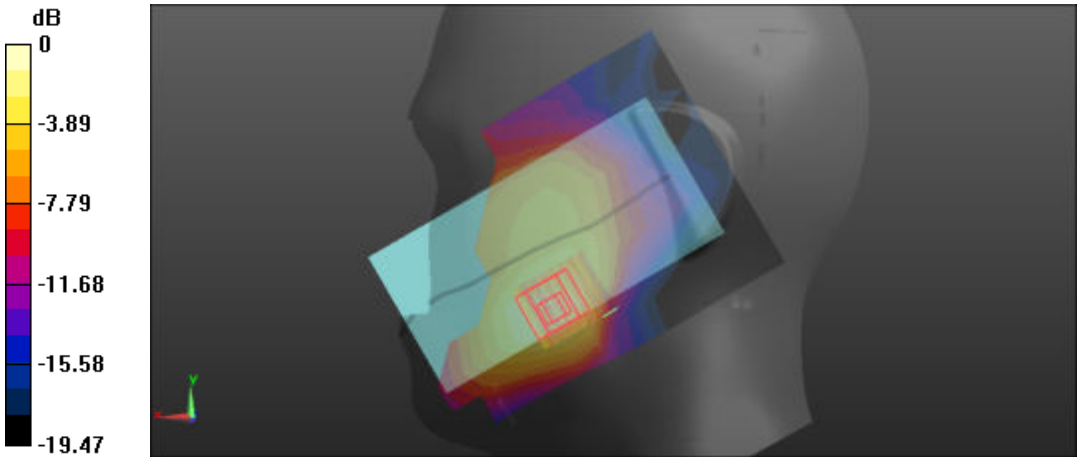
FLAT	EDGE3
Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz; Duty Cycle: 1:1.95434 Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.96$ S/m; $\epsilon_r = 55.858$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY5 Configuration: - Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10; - Sensor-Surface: 3mm (Mechanical Surface Detection) - Electronics: DAE4 Sn720; Calibrated: 2016/10/31 - Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL wcdma band5 HOT/wcdma band5 10mm M edge 3/Area Scan (6x15x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.125 W/kg Flat-Section MSL wcdma band5 HOT/wcdma band5 10mm M edge 3/Zoom Scan (7x7x7)/Cube 0: 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 SAR(1 g) = 0.114 W/kg; SAR(10 g) = 0.079 W/kg Maximum value of SAR (measured) = 0.131 W/kg	
 0 dB = 0.131 W/kg = -8.83 dBW/kg	

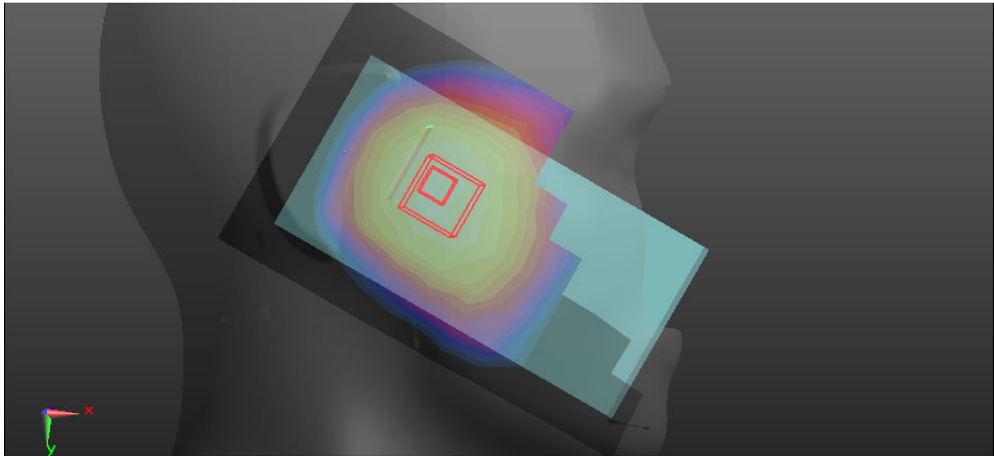
FLAT	EDGE4
Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz; Duty Cycle: 1:1.95434 Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.96$ S/m; $\epsilon_r = 55.858$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY5 Configuration: - Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10; - Sensor-Surface: 3mm (Mechanical Surface Detection) - Electronics: DAE4 Sn720; Calibrated: 2016/10/31 - Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL wcdma band5 HOT/wcdma band5 10mm M edge 4/Area Scan (6x15x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.123 W/kg Flat-Section MSL wcdma band5 HOT/wcdma band5 10mm M edge 4/Zoom Scan (7x7x7)/Cube 0: 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 SAR(1 g) = 0.107 W/kg; SAR(10 g) = 0.074 W/kg	
 0 dB = 0.123 W/kg = -9.10 dBW/kg	

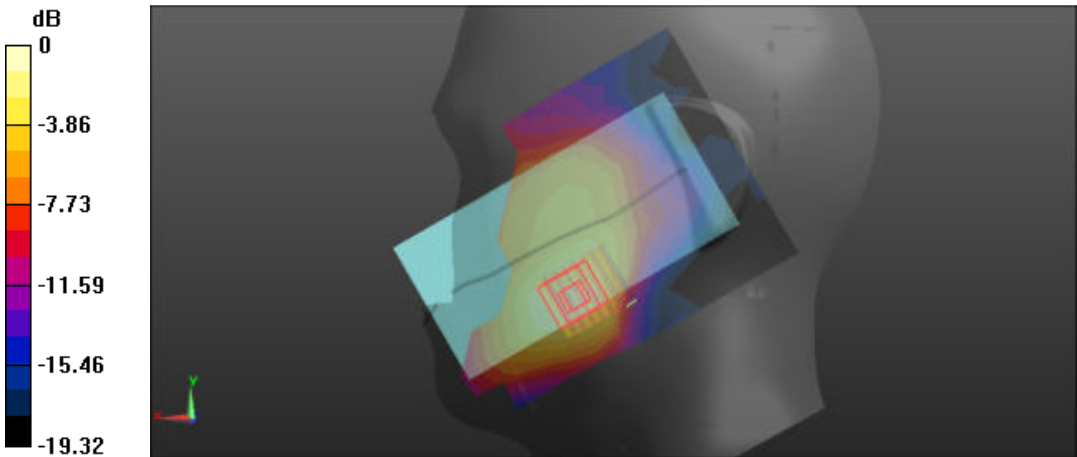
LTE (Band 2 20BW-1RB-Low/Head)

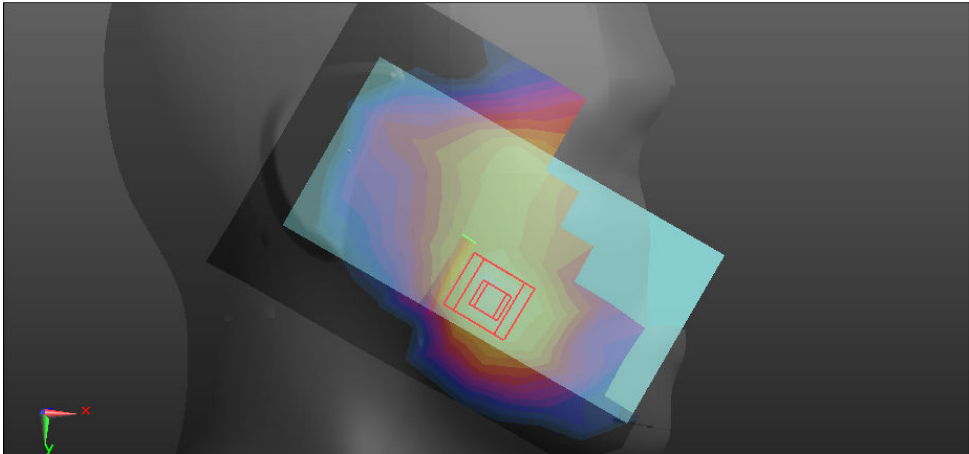
Left Side	Cheek
Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.45 \text{ S/m}$; $\epsilon_r = 39.74$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Left Section DASY5 Configuration: - Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn720; Calibrated: 2016/10/31 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section HSL LTE band2 Left/LTE band2 20MHz 1RB Low HSL touch M/Area Scan (9x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.441 W/kg Head-Section HSL LTE band2 Left/LTE band2 20MHz 1RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 4.549 V/m; Power Drift = -0.00 dB Peak SAR (extrapolated) = 0.745 W/kg SAR(1 g) = 0.443 W/kg; SAR(10 g) = 0.261 W/kg Maximum value of SAR (measured) = 0.484 W/kg  0 dB = 0.484 W/kg = -3.15 dBW/kg	

Left Side	Tilt
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: - Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn720; Calibrated: 2016/10/31 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section HSL LTE band2 Left/LTE band2 20MHz 1RB Low HSL tilt M/Area Scan (9x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.115 W/kg Head-Section HSL LTE band2 Left/LTE band2 20MHz 1RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 8.223 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 0.163 W/kg SAR(1 g) = 0.107 W/kg; SAR(10 g) = 0.067 W/kg Maximum value of SAR (measured) = 0.116 W/kg  0 dB = 0.116 W/kg = -9.36 dBW/kg	

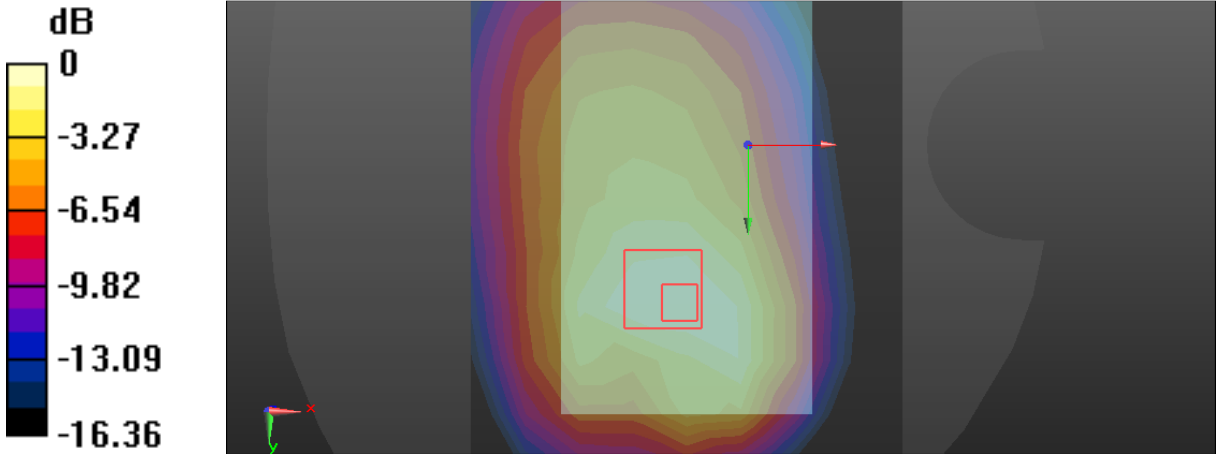
Right Side	Cheek
Communication System: UID 0, LTE band 02 (0); Frequency: 1860 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): $f = 1860$ MHz; $\sigma = 1.43$ S/m; $\epsilon_r = 39.827$; $\rho = 1000$ kg/m³ Phantom section: Left Section DASY5 Configuration: - Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn720; Calibrated: 2016/10/31 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section HSL LTE band2 Left/LTE band2 20MHz 1RB Low HSL touch L/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.334 W/kg Head-Section HSL LTE band2 Left/LTE band2 20MHz 1RB Low HSL touch L/Zoom Scan (7x7x7)/Cube 0: 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 SAR(1 g) = 0.327 W/kg; SAR(10 g) = 0.192 W/kg Maximum value of SAR (measured) = 0.355 W/kg  0 dB = 0.355 W/kg = -4.50 dBW/kg	

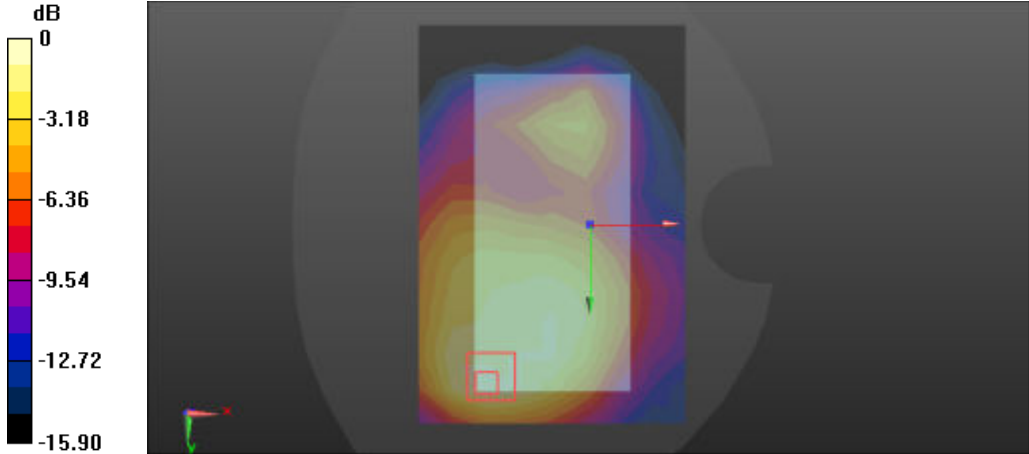
Right Side	Cheek
Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.45 \text{ S/m}$; $\epsilon_r = 39.74$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Right Section DASY5 Configuration: - Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn720; Calibrated: 2016/10/31 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section HSL LTE band2 Right/LTE band2 20MHz 1RB Low HSL touch M/Area Scan (8x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.183 W/kg Head-Section HSL LTE band2 Right/LTE band2 20MHz 1RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 4.262 V/m; Power Drift = -0.05 dB Peak SAR (extrapolated) = 0.298 W/kg SAR(1 g) = 0.189 W/kg; SAR(10 g) = 0.119 W/kg Maximum value of SAR (measured) = 0.202 W/kg dB 0 -2.41 -4.82 -7.22 -9.63 -12.04  0 dB = 0.202 W/kg = -6.95 dBW/kg	

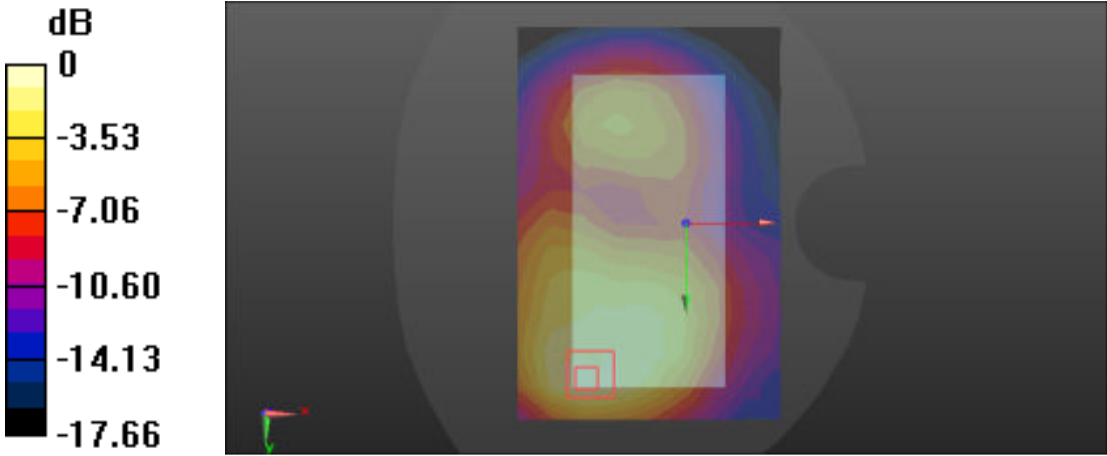
Right Side	Cheek
Communication System: UID 0, LTE band 02 (0); Frequency: 1900 MHz;Duty Cycle: 1:1 Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.45 \text{ S/m}$; $\epsilon_r = 39.75$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Left Section DASY5 Configuration: - Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn720; Calibrated: 2016/10/31 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section HSL LTE band2 Left/LTE band2 20MHz 1RB Low HSL touch H/Area Scan (9x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.345 W/kg Head-Section HSL LTE band2 Left/LTE band2 20MHz 1RB Low HSL touch H/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 3.754 V/m; Power Drift = 0.08 dB Peak SAR (extrapolated) = 0.556 W/kg SAR(1 g) = 0.333 W/kg; SAR(10 g) = 0.196 W/kg Maximum value of SAR (measured) = 0.363 W/kg  0 dB = 0.363 W/kg = -4.40 dBW/kg	

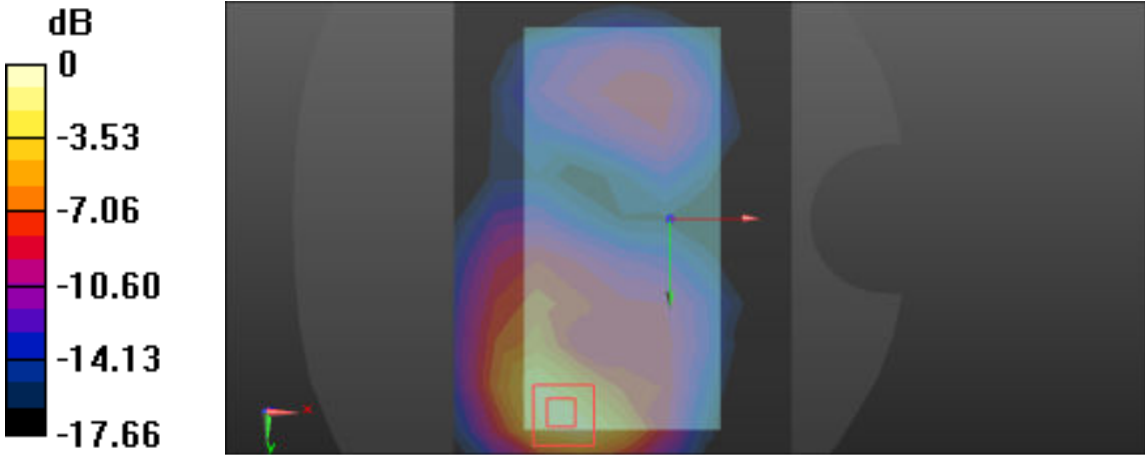
Right Side	Tilt
Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.45 \text{ S/m}$; $\epsilon_r = 39.74$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Right Section DASY5 Configuration: - Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn720; Calibrated: 2016/10/31 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section HSL LTE band2 Right/LTE band2 20MHz 1RB Low HSL tilt M/Area Scan (8x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.0827 W/kg Head-Section HSL LTE band2 Right/LTE band2 20MHz 1RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 6.792 V/m; Power Drift = -0.08 dB Peak SAR (extrapolated) = 0.117 W/kg SAR(1 g) = 0.075 W/kg; SAR(10 g) = 0.050 W/kg Maximum value of SAR (measured) = 0.0816 W/kg	
dB 0 -2.58 -5.16 -7.74 -10.32 -12.90  0 dB = 0.0816 W/kg = -10.88 dBW/kg	

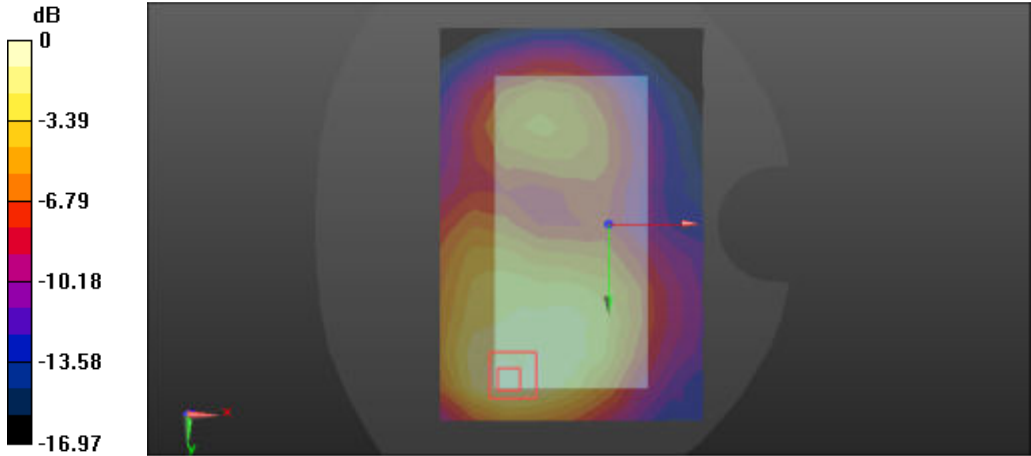
LTE (Band 2 20BW-1RB-Low/Flat)

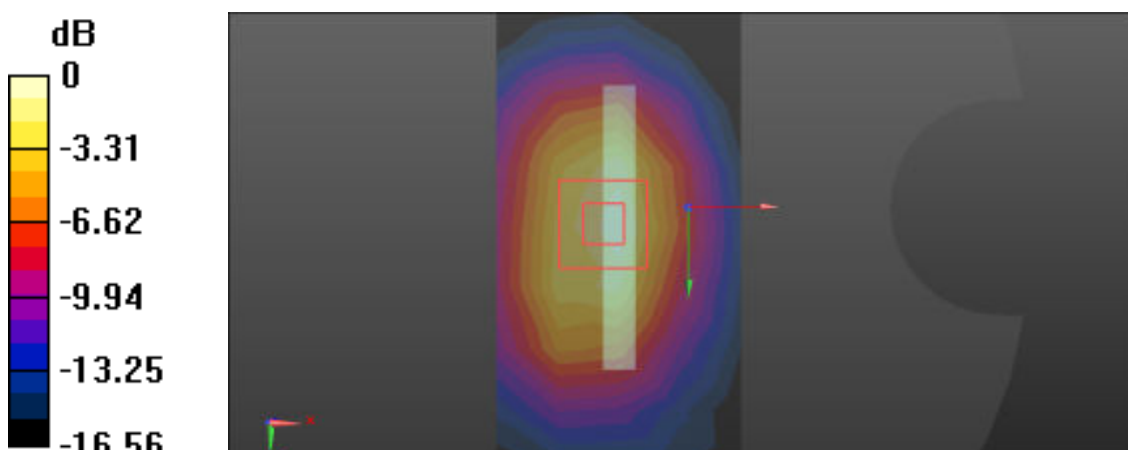
FLAT	Towards phantom
Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.57 \text{ S/m}$; $\epsilon_r = 51.14$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section DASY5 Configuration: - Probe: EX3DV4 - SN3708; 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: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL LTE band2 TP/LTE band2 TP 20MHz 1RB M 10mm/Area Scan (9x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.461 W/kg Flat-Section MSL LTE band2 TP/LTE band2 TP 20MHz 1RB M 10mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 9.559 V/m; Power Drift = -0.03 dB Peak SAR (extrapolated) = 0.854 W/kg SAR(1 g) = 0.472 W/kg; SAR(10 g) = 0.275 W/kg Maximum value of SAR (measured) = 0.510 W/kg  0 dB = 0.510 W/kg = -2.92 dBW/kg	

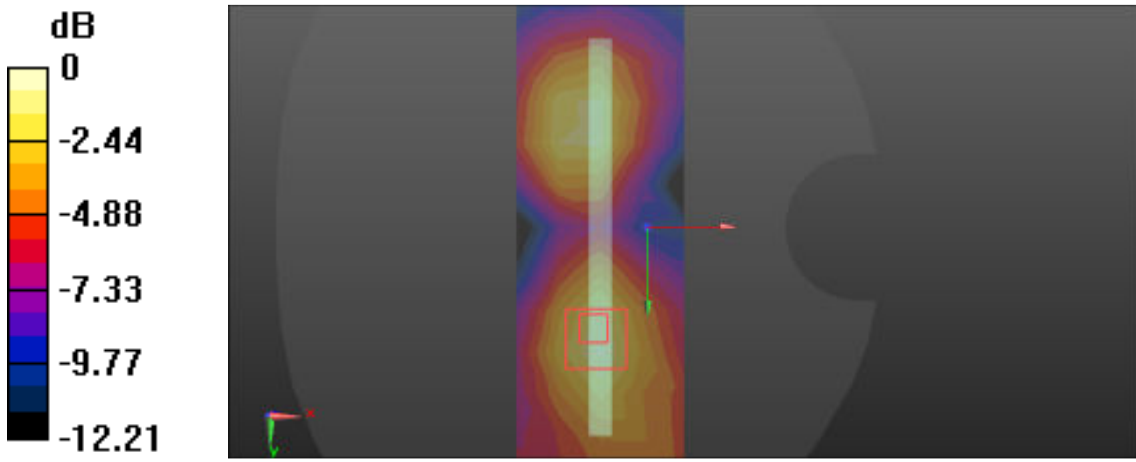
FLAT	Towards ground
Communication System: UID 0, LTE band 02 (0); Frequency: 1860 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): $f = 1860$ MHz; $\sigma = 1.543$ S/m; $\epsilon_r = 51.207$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY5 Configuration: - Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn720; Calibrated: 2016/10/31 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL LTE band2 TG/LTE band2 TG 20MHz 1RB L 10mm/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.746 W/kg Flat-Section MSL LTE band2 TG/LTE band2 TG 20MHz 1RB L 10mm/Zoom Scan (7x7x7)/Cube 0: 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 SAR(1 g) = 0.708 W/kg; SAR(10 g) = 0.412 W/kg Maximum value of SAR (measured) = 0.772 W/kg  0 dB = 0.772 W/kg = -1.12 dBW/kg	

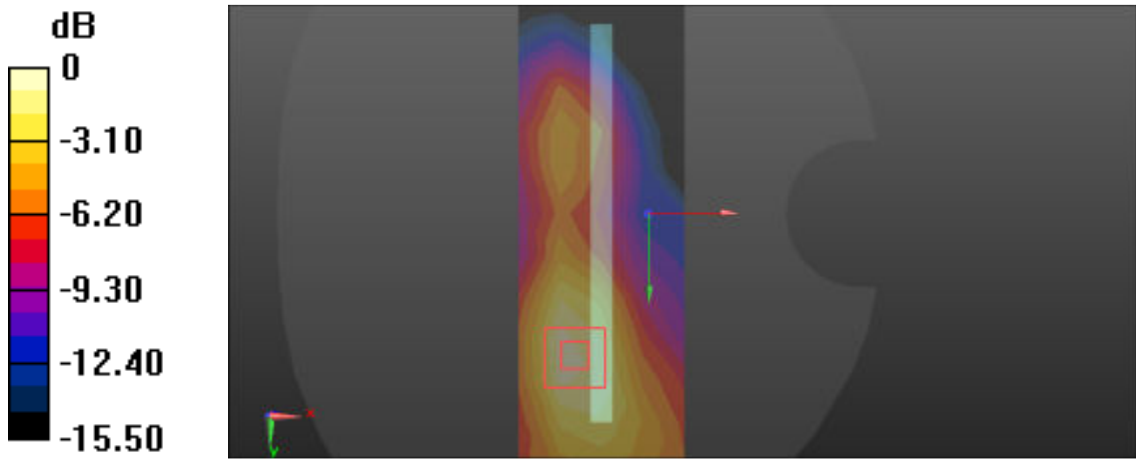
FLAT	Towards ground
Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.57 \text{ S/m}$; $\epsilon_r = 51.14$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section DASY5 Configuration: - Probe: EX3DV4 - SN3708; 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: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL LTE band2 TG/LTE band2 TG 20MHz 1RB M 10mm/Area Scan (9x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.869 W/kg Flat-Section MSL LTE band2 TG/LTE band2 TG 20MHz 1RB M 10mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 6.879 V/m; Power Drift = 0.22 dB Peak SAR (extrapolated) = 1.50 W/kg SAR(1 g) = 0.795 W/kg; SAR(10 g) = 0.434 W/kg Maximum value of SAR (measured) = 0.881 W/kg  0 dB = 0.881 W/kg = -0.55 dBW/kg	

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: - 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: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL LTE band2 TG/LTE band2 TG 20MHz 1RB M 10mm/Area Scan (9x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.763 W/kg Flat-Section MSL LTE band2 TG/LTE band2 TG 20MHz 1RB M 10mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 6.243 V/m; Power Drift = 0.11 dB Peak SAR (extrapolated) = 1.50 W/kg SAR(1 g) = 0.678 W/kg; SAR(10 g) = 0.201 W/kg Maximum value of SAR (measured) = 0.782 W/kg  0 dB = 0.415 W/kg = -3.82 dBW/kg	

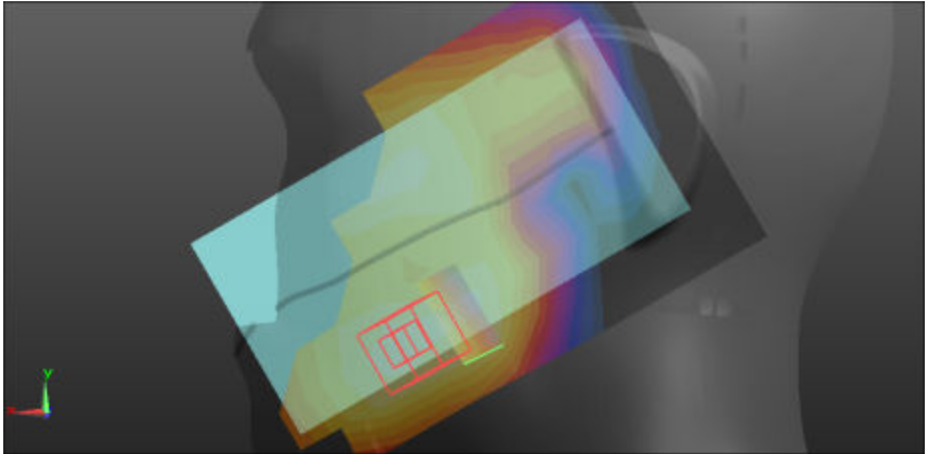
FLAT	Towards ground
Communication System: UID 0, LTE band 02 (0); Frequency: 1900 MHz;Duty Cycle: 1:1 Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.57 \text{ S/m}$; $\epsilon_r = 51.05$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section DASY5 Configuration: - Probe: EX3DV4 - SN3708; 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: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL LTE band2 TG/LTE band2 TG 20MHz 1RB H 10mm/Area Scan (9x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.807 W/kg Flat-Section MSL LTE band2 TG/LTE band2 TG 20MHz 1RB H 10mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 9.316 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 1.33 W/kg SAR(1 g) = 0.777 W/kg; SAR(10 g) = 0.450 W/kg Maximum value of SAR (measured) = 0.854 W/kg  0 dB = 0.854 W/kg = -0.69 dBW/kg	

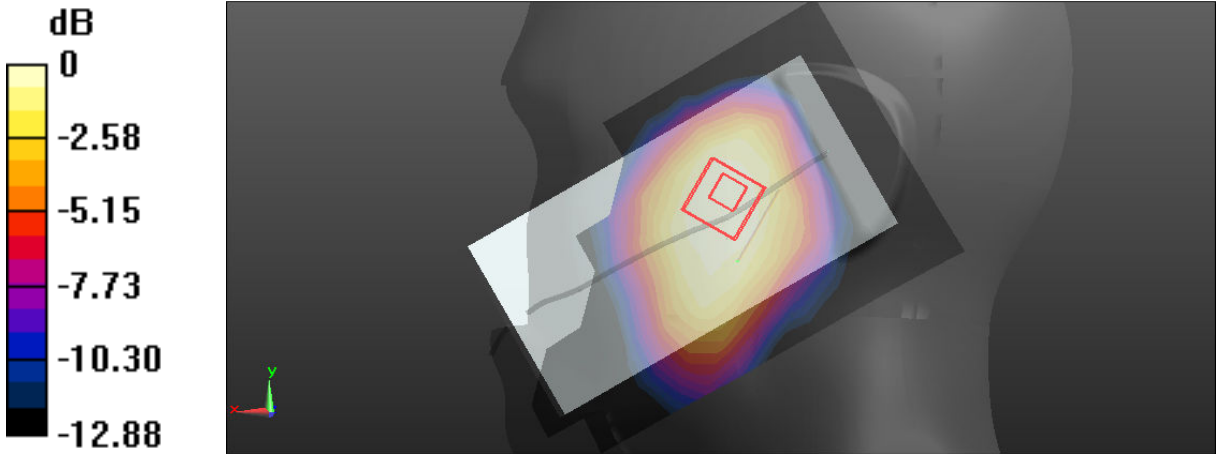
FLAT	EDGE2
Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.57 \text{ S/m}$; $\epsilon_r = 51.14$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section DASY5 Configuration: - Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn720; Calibrated: 2016/10/31 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL LTE band2 HOT/LTE band2 20MHz 1RB 10mm M edge 2/Area Scan (6x11x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.365 W/kg Flat-Section MSL LTE band2 HOT/LTE band2 20MHz 1RB 10mm M edge 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 12.53 V/m; Power Drift = 0.13 dB Peak SAR (extrapolated) = 0.665 W/kg SAR(1 g) = 0.378 W/kg; SAR(10 g) = 0.213 W/kg Maximum value of SAR (measured) = 0.415 W/kg  0 dB = 0.415 W/kg = -3.82 dBW/kg	

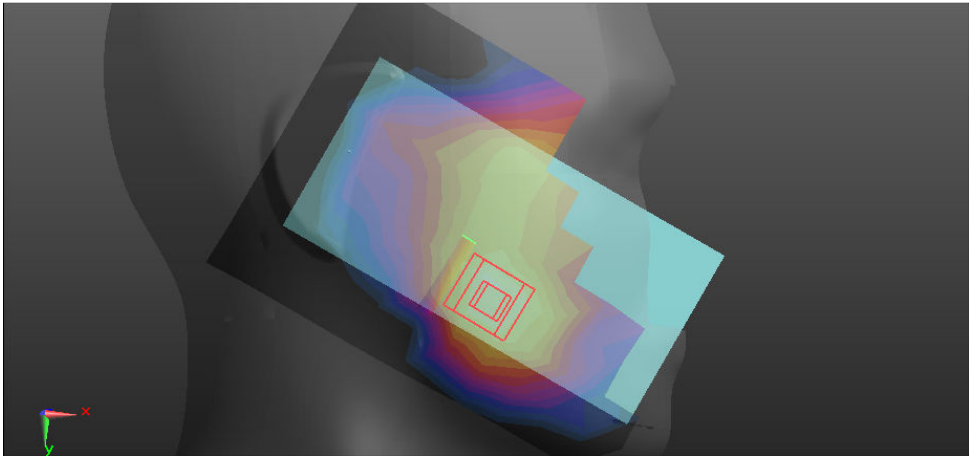
FLAT	EDGE3
Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.57 \text{ S/m}$; $\epsilon_r = 51.14$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section DASY5 Configuration: - Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn720; Calibrated: 2016/10/31 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL LTE band2 HOT/LTE band2 20MHz 1RB 10mmM edge 3/Area Scan (6x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.0436 W/kg Flat-Section MSL LTE band2 HOT/LTE band2 20MHz 1RB 10mmM edge 3/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 2.837 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 0.0710 W/kg SAR(1 g) = 0.043 W/kg; SAR(10 g) = 0.028 W/kg Maximum value of SAR (measured) = 0.0457 W/kg  0 dB = 0.0457 W/kg = -13.40 dBW/kg	

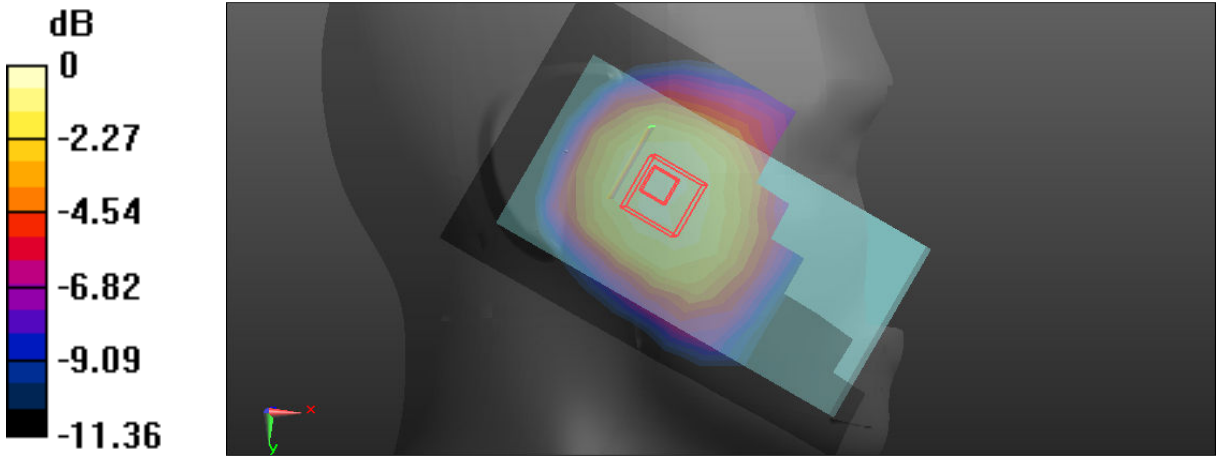
FLAT	EDGE4
Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.57 \text{ S/m}$; $\epsilon_r = 51.14$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section DASY5 Configuration: - Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn720; Calibrated: 2016/10/31 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL LTE band2 HOT/LTE band2 20MHz 1RB 10mmM edge 4/Area Scan (6x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.322 W/kg Flat-Section MSL LTE band2 HOT/LTE band2 20MHz 1RB 10mmM edge 4/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 10.50 V/m; Power Drift = 0.06 dB Peak SAR (extrapolated) = 0.511 W/kg SAR(1 g) = 0.301 W/kg; SAR(10 g) = 0.177 W/kg Maximum value of SAR (measured) = 0.327 W/kg	
 0 dB = 0.327 W/kg = -4.85 dBW/kg	

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

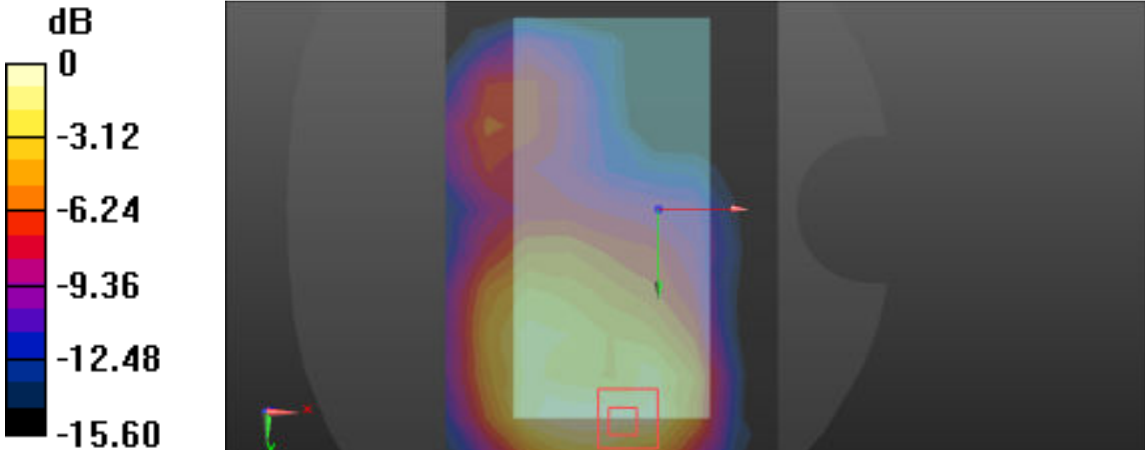
Left Side	Cheek
Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.45 \text{ S/m}$; $\epsilon_r = 39.74$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Left Section DASY5 Configuration: - Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn720; Calibrated: 2016/10/31 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section HSL LTE band2 Left/LTE band2 20MHz 50RB Low HSL touch M/Area Scan (9x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.386 W/kg Head-Section HSL LTE band2 Left/LTE band2 20MHz 50RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 3.705 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 0.670 W/kg SAR(1 g) = 0.397 W/kg; SAR(10 g) = 0.233 W/kg Maximum value of SAR (measured) = 0.435 W/kg dB 0 -3.01 -6.01 -9.02 -12.02 -15.03  0 dB = 0.435 W/kg = -3.62 dBW/kg	

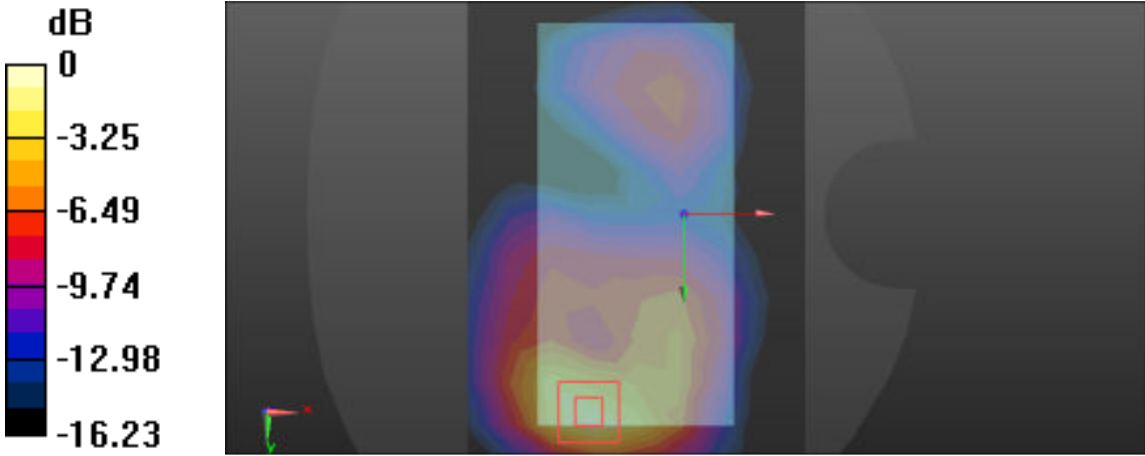
Left Side	Tilt
Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.45 \text{ S/m}$; $\epsilon_r = 39.74$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Left Section DASY5 Configuration: - Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn720; Calibrated: 2016/10/31 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section HSL LTE band2 Left/LTE band2 20MHz 50RB Low HSL tilt M/Area Scan (9x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.0977 W/kg Head-Section HSL LTE band2 Left/LTE band2 20MHz 50RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 7.476 V/m; Power Drift = 0.00 dB Peak SAR (extrapolated) = 0.176 W/kg SAR(1 g) = 0.096 W/kg; SAR(10 g) = 0.058 W/kg Maximum value of SAR (measured) = 0.114 W/kg  0 dB = 0.114 W/kg = -9.43 dBW/kg	

Right 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: Right Section DASY5 Configuration: - Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn720; Calibrated: 2016/10/31 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section HSL LTE band2 Right/LTE band2 20MHz 50RB Low HSL touch M/Area Scan (8x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.147 W/kg Head-Section HSL LTE band2 Right/LTE band2 20MHz 50RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 3.878 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 0.221 W/kg SAR(1 g) = 0.147 W/kg; SAR(10 g) = 0.094 W/kg Maximum value of SAR (measured) = 0.158 W/kg dB 0 -2.23 -4.47 -6.70 -8.94 -11.17  0 dB = 0.158 W/kg = -8.01 dBW/kg	

Right Side	Tilt
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: Right Section DASY5 Configuration: - Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn720; Calibrated: 2016/10/31 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section HSL LTE band2 Right/LTE band2 20MHz 50RB Low HSL tilt M/Area Scan (8x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.0714 W/kg Head-Section HSL LTE band2 Right/LTE band2 20MHz 50RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 6.151 V/m; Power Drift = -0.15 dB Peak SAR (extrapolated) = 0.109 W/kg SAR(1 g) = 0.067 W/kg; SAR(10 g) = 0.042 W/kg Maximum value of SAR (measured) = 0.0722 W/kg  0 dB = 0.0722 W/kg = -11.41 dBW/kg	

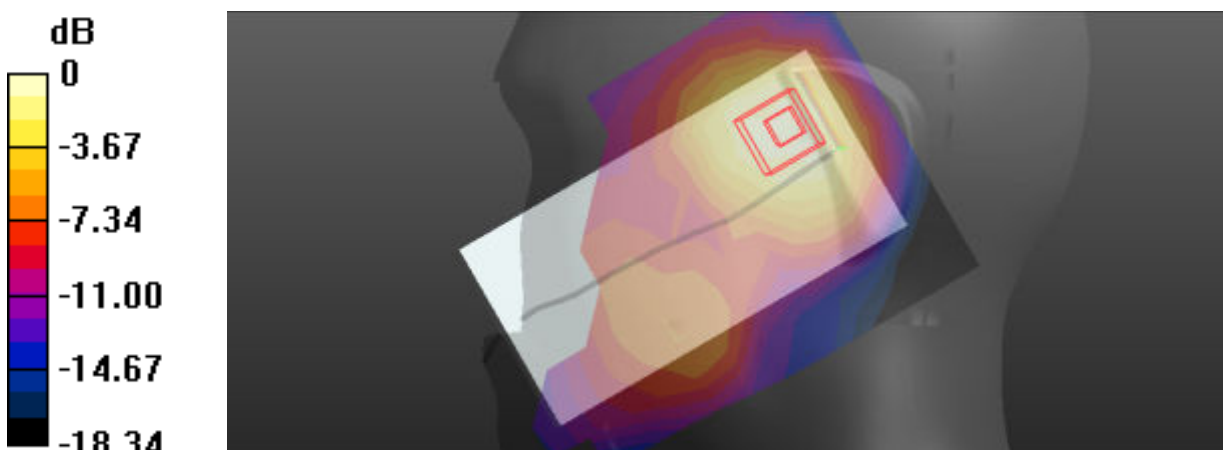
LTE (Band 2 20BW-50RB-Low/Flat)

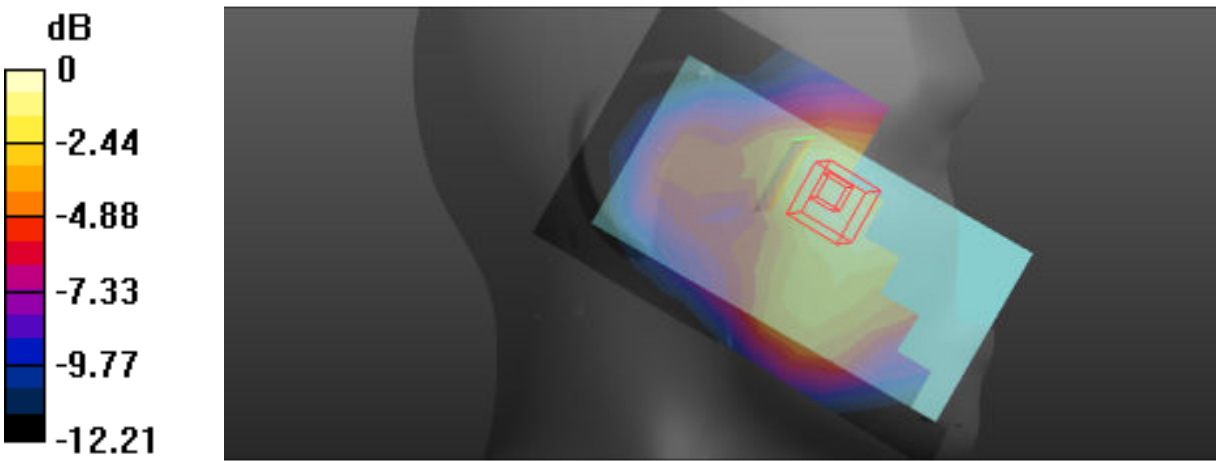
FLAT	Towards phantom
Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.57 \text{ S/m}$; $\epsilon_r = 51.14$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section DASY5 Configuration: - Probe: EX3DV4 - SN3708; 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: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL LTE band2 TP/LTE band2 TP 20MHz 50RB M 10mm/Area Scan (9x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.371 W/kg Flat-Section MSL LTE band2 TP/LTE band2 TP 20MHz 50RB M 10mm/Zoom Scan (7x7x7)/Cube 0: 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 SAR(1 g) = 0.382 W/kg; SAR(10 g) = 0.224 W/kg Maximum value of SAR (measured) = 0.413 W/kg  0 dB = 0.413 W/kg = -3.84 dBW/kg	

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: - 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: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL LTE band2 TG/LTE band2 TG 20MHz 50RB M 10mm/Area Scan (9x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.706 W/kg Flat-Section MSL LTE band2 TG/LTE band2 TG 20MHz 50RB M 10mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 6.182 V/m; Power Drift = -0.13 dB Peak SAR (extrapolated) = 1.22 W/kg SAR(1 g) = 0.646 W/kg; SAR(10 g) = 0.352 W/kg Maximum value of SAR (measured) = 0.712 W/kg  0 dB = 0.712 W/kg = -1.48 dBW/kg	

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

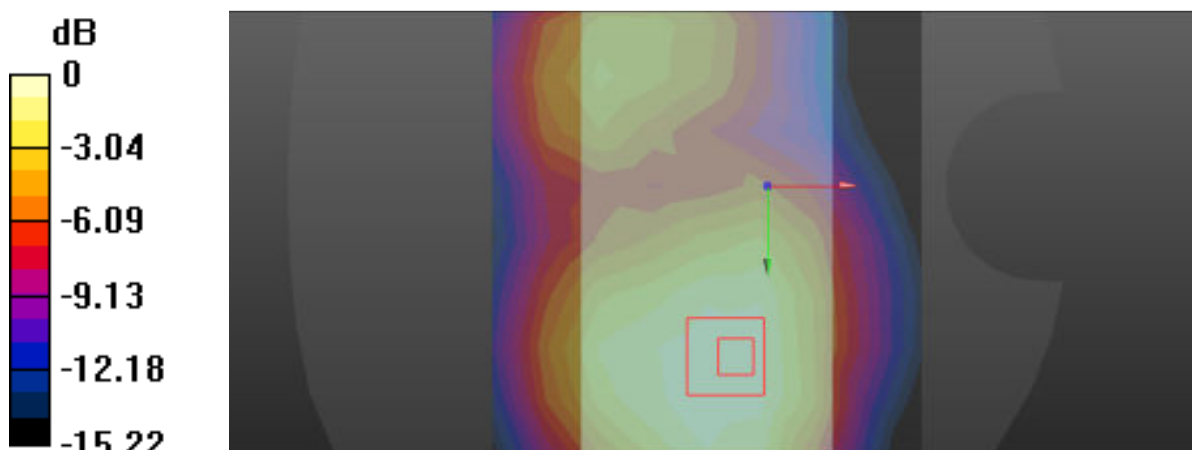
Left Side	Cheek
Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): $f = 1732.5 \text{ MHz}$; $\sigma = 1.304 \text{ S/m}$; $\epsilon_r = 40.408$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Left Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section HSL LTE band4 Left/LTE band4 20MHz 1RB Low HSL touch M/Area Scan (9x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.320 W/kg Head-Section HSL LTE band4 Left/LTE band4 20MHz 1RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 5.913 V/m; Power Drift = -0.08 dB Peak SAR (extrapolated) = 0.546 W/kg SAR(1 g) = 0.343 W/kg; SAR(10 g) = 0.212 W/kg Maximum value of SAR (measured) = 0.375 W/kg 0 dB = 0.375 W/kg = -4.26 dBW/kg	

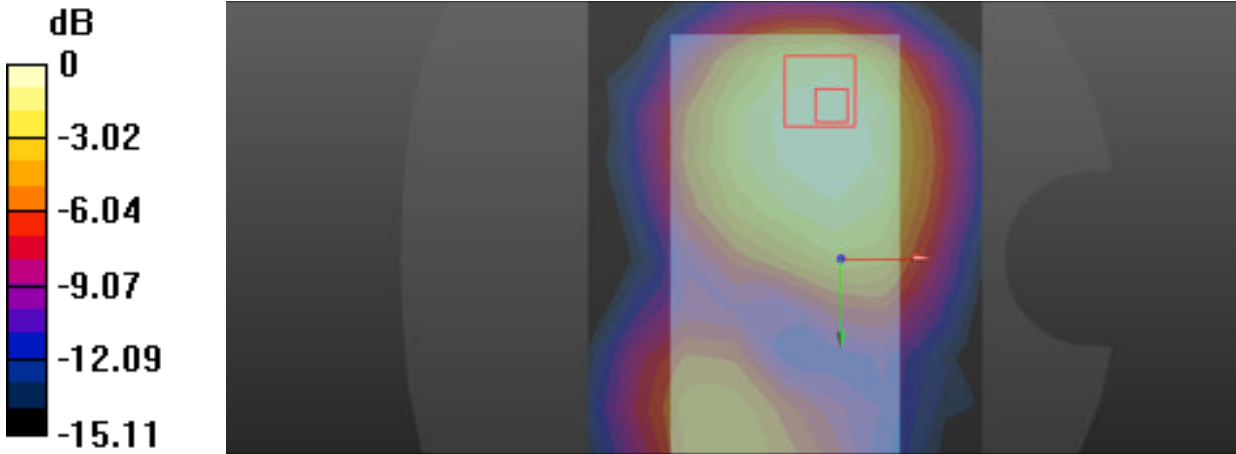
Left Side	Tilt
Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.304$ S/m; $\epsilon_r = 40.408$; $\rho = 1000$ kg/m³ Phantom section: Left Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section HSL LTE band4 Left/LTE band4 20MHz 1RB Low HSL tilt M/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.181 W/kg Head-Section HSL LTE band4 Left/LTE band4 20MHz 1RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0: 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 SAR(1 g) = 0.169 W/kg; SAR(10 g) = 0.105 W/kg Maximum value of SAR (measured) = 0.186 W/kg  0 dB = 0.186 W/kg = -7.30 dBW/kg	

Right Side	Cheek
Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): $f = 1732.5 \text{ MHz}$; $\sigma = 1.304 \text{ S/m}$; $\epsilon_r = 40.408$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Right Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section HSL LTE band4 Right/LTE band4 20MHz 1RB Low HSL touch M/Area Scan (8x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.162 W/kg Head-Section HSL LTE band4 Right/LTE band4 20MHz 1RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 6.115 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 0.266 W/kg SAR(1 g) = 0.170 W/kg; SAR(10 g) = 0.108 W/kg Maximum value of SAR (measured) = 0.187 W/kg  0 dB = 0.187 W/kg = -7.28 dBW/kg	

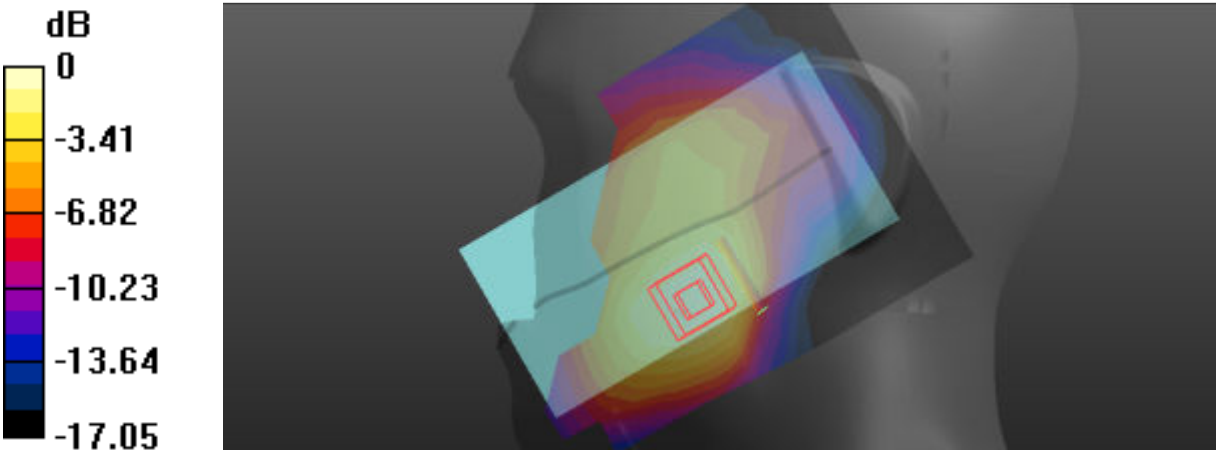
Right Side	Tilt
Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): $f = 1732.5 \text{ MHz}$; $\sigma = 1.304 \text{ S/m}$; $\epsilon_r = 40.408$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Right Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section HSL LTE band4 Right/LTE band4 20MHz 1RB Low HSL tilt M/Area Scan (8x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.146 W/kg Head-Section HSL LTE band4 Right/LTE band4 20MHz 1RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 9.733 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 0.217 W/kg SAR(1 g) = 0.138 W/kg; SAR(10 g) = 0.085 W/kg Maximum value of SAR (measured) = 0.149 W/kg 0 dB = 0.149 W/kg = -8.27 dBW/kg	

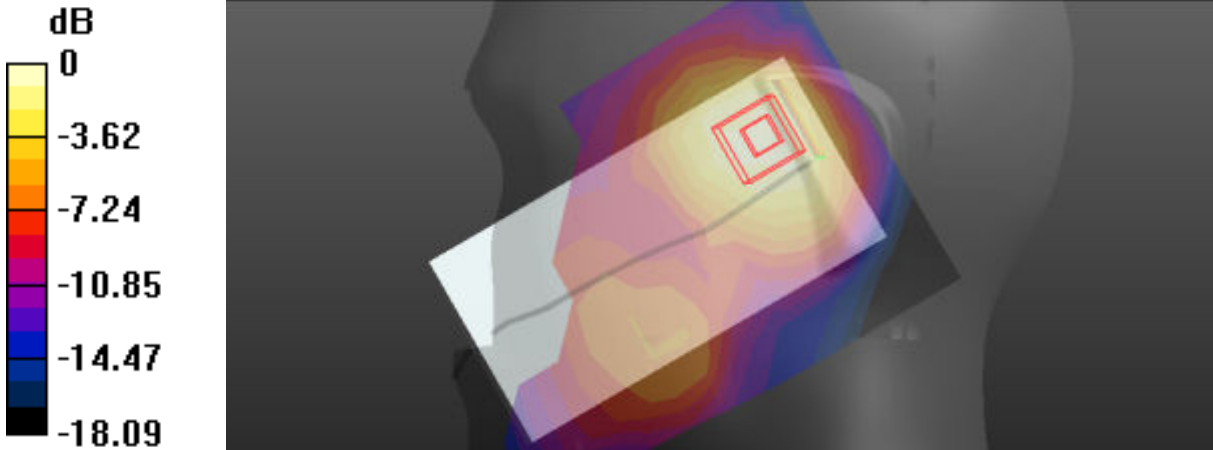
LTE (Band 4 20BW-1RB-Low/Flat)

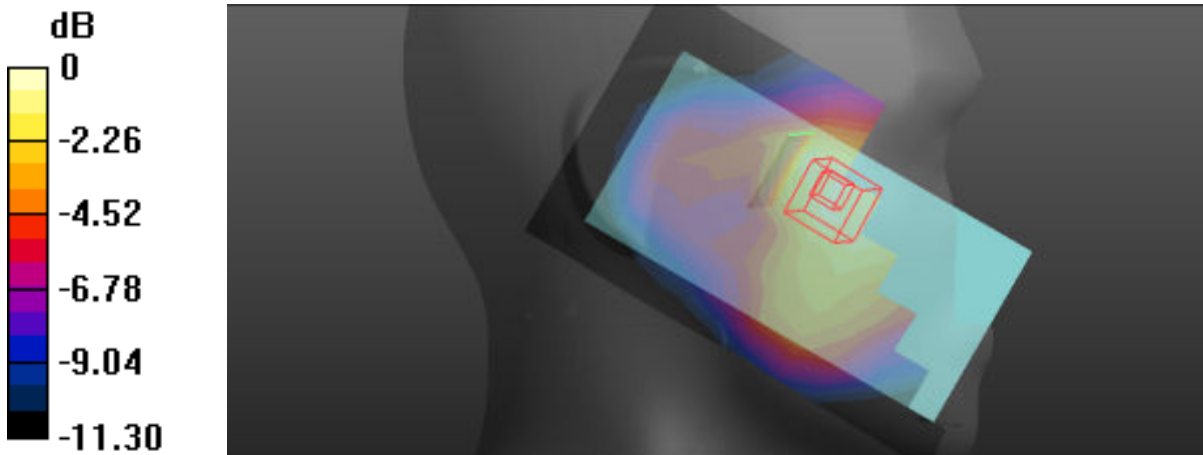
FLAT	Towards phantom
Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.404$ S/m; $\epsilon_r = 51.622$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.9, 4.9, 4.9); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL LTE band4 TP/LTE band4 TP 20MHz 1RB M 10mm/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.341 W/kg Flat-Section MSL LTE band4 TP/LTE band4 TP 20MHz 1RB M 10mm/Zoom Scan (7x7x7)/Cube 0: 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 SAR(1 g) = 0.340 W/kg; SAR(10 g) = 0.221 W/kg Maximum value of SAR (measured) = 0.367 W/kg  0 dB = 0.367 W/kg = -4.35 dBW/kg	

FLAT	Towards ground
Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.404$ S/m; $\epsilon_r = 51.622$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.9, 4.9, 4.9); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL LTE band4 TG/LTE band4 TG 20MHz 1RB M 10mm/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.211 W/kg Flat-Section MSL LTE band4 TG/LTE band4 TG 20MHz 1RB M 10mm/Zoom Scan (7x7x7)/Cube 0: 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 SAR(1 g) = 0.200 W/kg; SAR(10 g) = 0.124 W/kg Maximum value of SAR (measured) = 0.219 W/kg  0 dB = 0.219 W/kg = -6.60 dBW/kg	

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

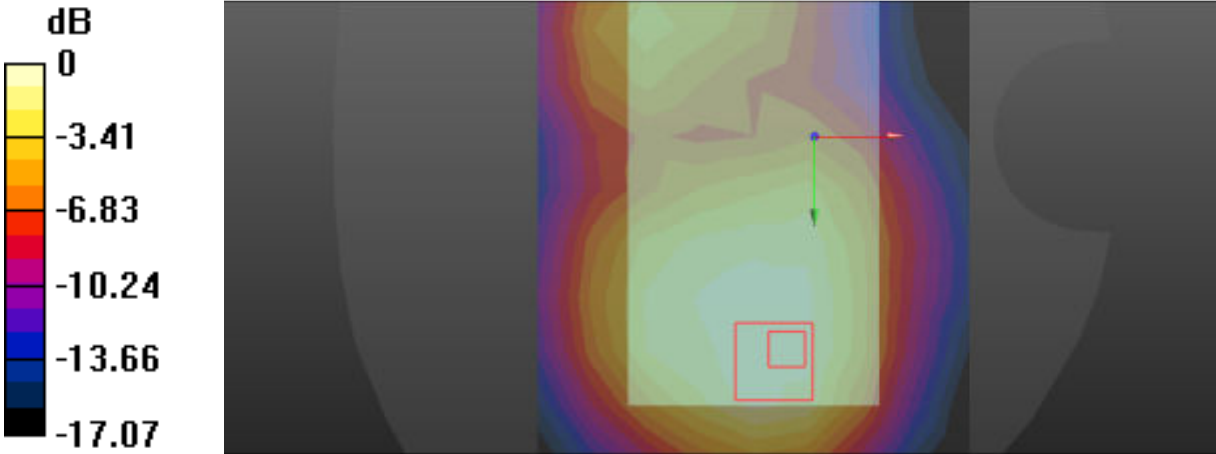
Left Side	Cheek
Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz; Duty Cycle: 1:1 Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.304$ S/m; $\epsilon_r = 40.408$; $\rho = 1000$ kg/m³ Phantom section: Left Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section HSL LTE band4 Left/LTE band4 20MHz 50RB Low HSL touch M/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.267 W/kg Head-Section HSL LTE band4 Left/LTE band4 20MHz 50RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0: 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 SAR(1 g) = 0.280 W/kg; SAR(10 g) = 0.172 W/kg Maximum value of SAR (measured) = 0.305 W/kg	
 0 dB = 0.305 W/kg = -5.16 dBW/kg	

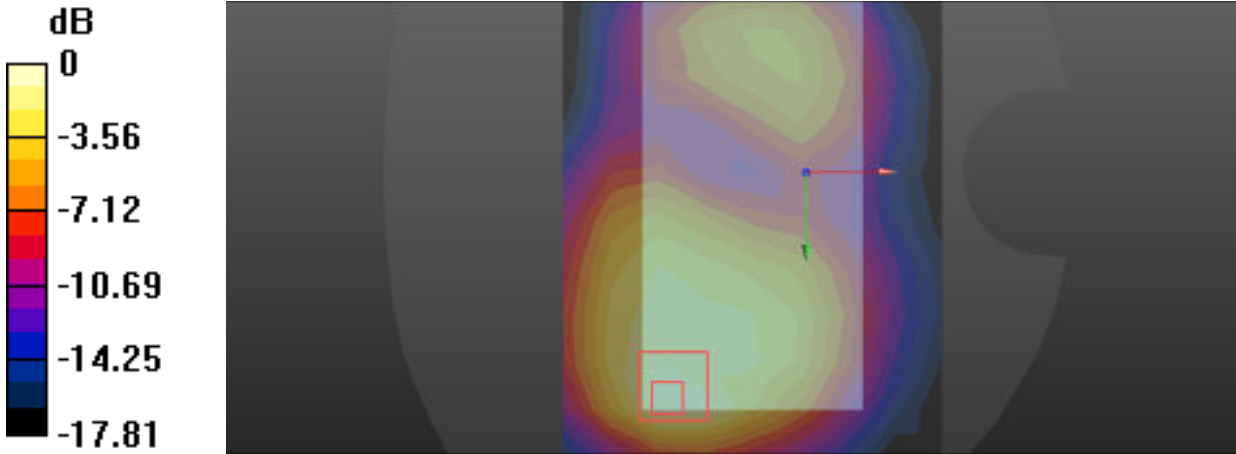
Left Side	Tilt
Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.304$ S/m; $\epsilon_r = 40.408$; $\rho = 1000$ kg/m³ Phantom section: Left Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section HSL LTE band4 Left/LTE band4 20MHz 50RB Low HSL tilt M/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.142 W/kg Head-Section HSL LTE band4 Left/LTE band4 20MHz 50RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0: 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 SAR(1 g) = 0.136 W/kg; SAR(10 g) = 0.085 W/kg Maximum value of SAR (measured) = 0.147 W/kg  0 dB = 0.147 W/kg = -8.33 dBW/kg	

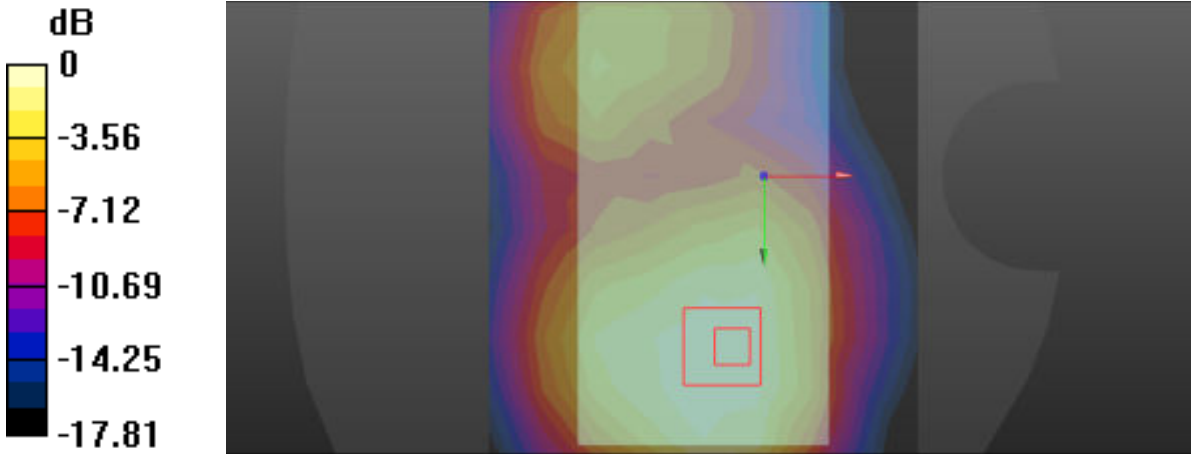
Right Side	Cheek
Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): $f = 1732.5 \text{ MHz}$; $\sigma = 1.304 \text{ S/m}$; $\epsilon_r = 40.408$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Right Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section HSL LTE band4 Right/LTE band4 20MHz 50RB Low HSL touch M/Area Scan (8x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.143 W/kg Head-Section HSL LTE band4 Right/LTE band4 20MHz 50RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 5.585 V/m; Power Drift = -0.06 dB Peak SAR (extrapolated) = 0.231 W/kg SAR(1 g) = 0.148 W/kg; SAR(10 g) = 0.095 W/kg Maximum value of SAR (measured) = 0.159 W/kg  0 dB = 0.159 W/kg = -7.99 dBW/kg	

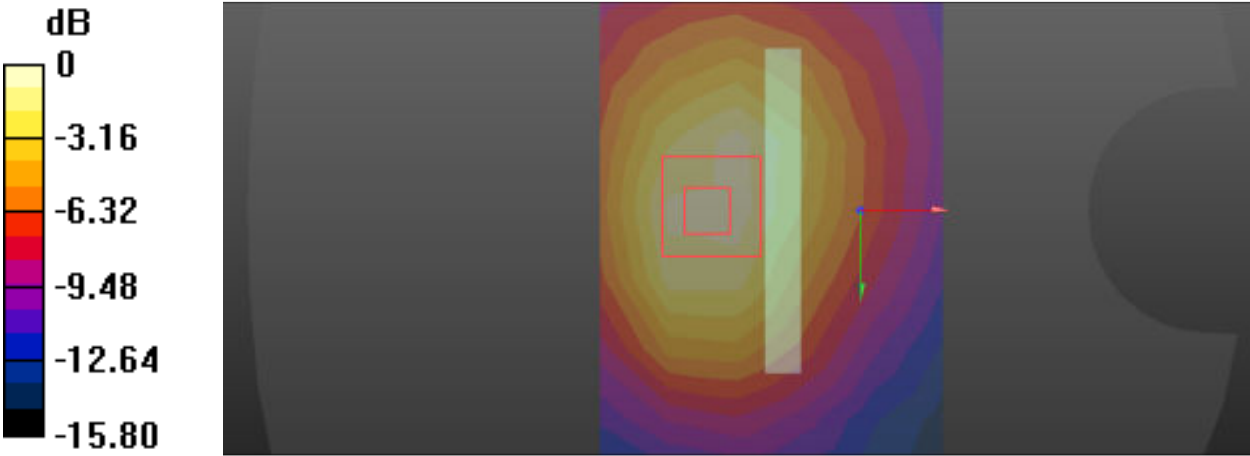
Right Side	Tilt
Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.304$ S/m; $\epsilon_r = 40.408$; $\rho = 1000$ kg/m³ Phantom section: Right Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section HSL LTE band4 Right/LTE band4 20MHz 50RB Low HSL tilt M/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.124 W/kg Head-Section HSL LTE band4 Right/LTE band4 20MHz 50RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0: 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 SAR(1 g) = 0.118 W/kg; SAR(10 g) = 0.072 W/kg Maximum value of SAR (measured) = 0.128 W/kg 0 dB = 0.128 W/kg = -8.93 dBW/kg	

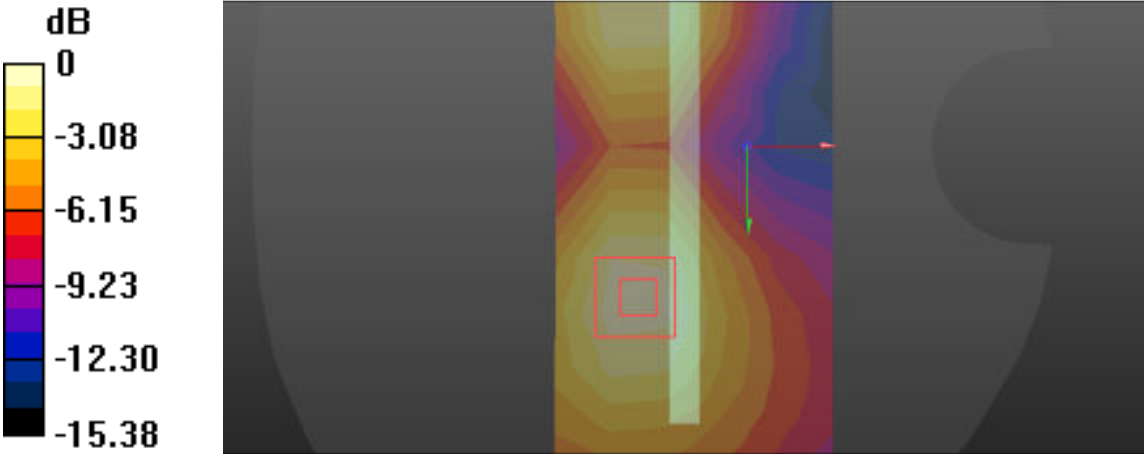
LTE (Band 4 20BW-50RB-Low/Flat)

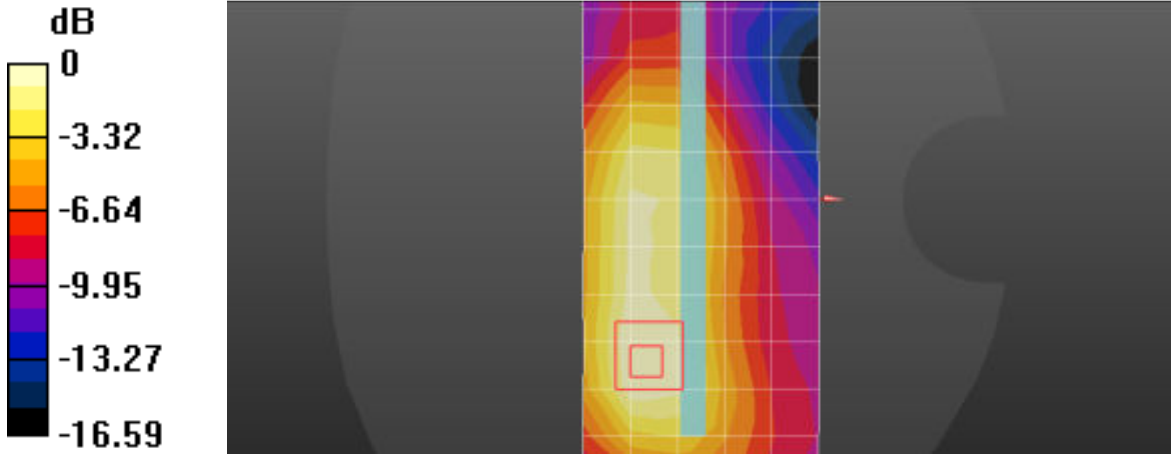
FLAT	Towards phantom
Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): $f = 1732.5 \text{ MHz}$; $\sigma = 1.404 \text{ S/m}$; $\epsilon_r = 51.622$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.9, 4.9, 4.9); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL LTE band4 TP/LTE band4 TP 20MHz 50RB M 10mm/Area Scan (9x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.267 W/kg Flat-Section MSL LTE band4 TP/LTE band4 TP 20MHz 50RB M 10mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 6.807 V/m; Power Drift = 0.00 dB Peak SAR (extrapolated) = 0.446 W/kg SAR(1 g) = 0.272 W/kg; SAR(10 g) = 0.169 W/kg Maximum value of SAR (measured) = 0.296 W/kg	
 0 dB = 0.296 W/kg = -5.29 dBW/kg	

FLAT	Towards ground
Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.404$ S/m; $\epsilon_r = 51.622$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.9, 4.9, 4.9); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL LTE band4 TG/LTE band4 TG 20MHz 50RB M 10mm/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.410 W/kg Flat-Section MSL LTE band4 TG/LTE band4 TG 20MHz 50RB M 10mm/Zoom Scan (7x7x7)/Cube 0: 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 SAR(1 g) = 0.419 W/kg; SAR(10 g) = 0.236 W/kg Maximum value of SAR (measured) = 0.467 W/kg  0 dB = 0.467 W/kg = -3.31 dBW/kg	

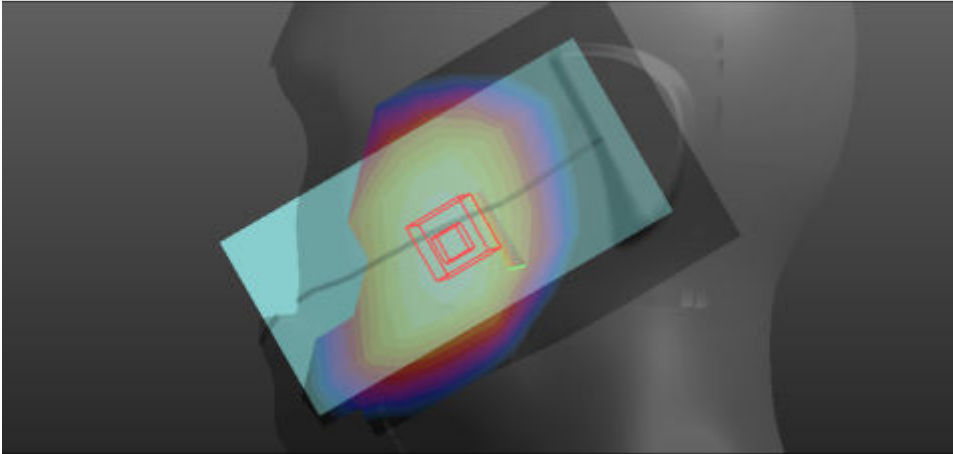
FLAT	Towards ground
Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.404$ S/m; $\epsilon_r = 51.622$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.9, 4.9, 4.9); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL LTE band4 TG/LTE band4 TG 20MHz 50RB M 10mm/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.301 W/kg Flat-Section MSL LTE band4 TG/LTE band4 TG 20MHz 50RB M 10mm/Zoom Scan (7x7x7)/Cube 0: 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 SAR(1 g) = 0.288 W/kg; SAR(10 g) = 0.129 W/kg Maximum value of SAR (measured) = 0.374 W/kg  0 dB = 0.127 W/kg = -8.96 dBW/kg	

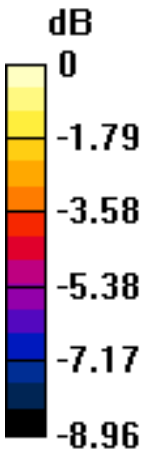
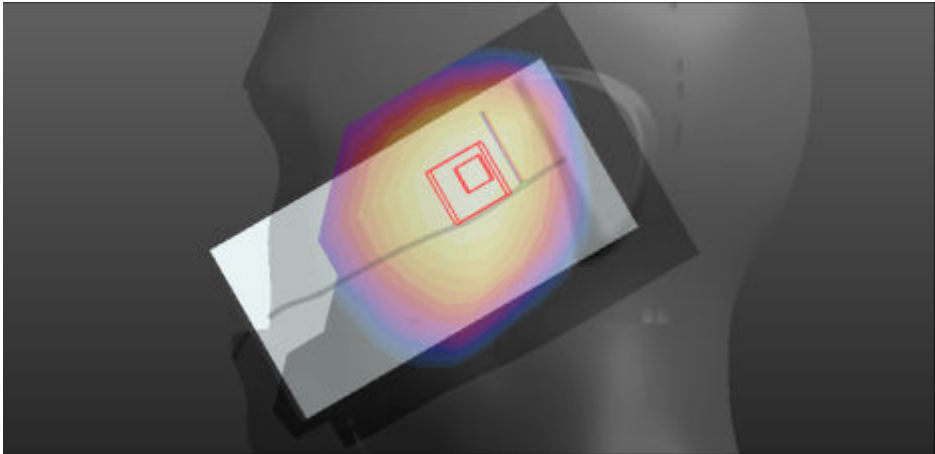
FLAT	EDGE2
Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.404$ S/m; $\epsilon_r = 51.622$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.9, 4.9, 4.9); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL LTE band4 HOT/LTE band4 20MHz 50RB 10mm M edge 2/Area Scan (6x11x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.312 W/kg Flat-Section MSL LTE band4 HOT/LTE band4 20MHz 50RB 10mm M edge 2/Zoom Scan (7x7x7)/Cube 0: 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 SAR(1 g) = 0.311 W/kg; SAR(10 g) = 0.181 W/kg Maximum value of SAR (measured) = 0.342 W/kg  0 dB = 0.342 W/kg = -4.66 dBW/kg	

FLAT	EDGE3
Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.404$ S/m; $\epsilon_r = 51.622$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.9, 4.9, 4.9); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL LTE band4 HOT/LTE band4 20MHz 50RB 10mmM edge 3/Area Scan (6x15x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.113 W/kg Flat-Section MSL LTE band4 HOT/LTE band4 20MHz 50RB 10mmM edge 3/Zoom Scan (7x7x7)/Cube 0: 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 SAR(1 g) = 0.116 W/kg; SAR(10 g) = 0.070 W/kg Maximum value of SAR (measured) = 0.127 W/kg  0 dB = 0.127 W/kg = -8.96 dBW/kg	

FLAT	EDGE4
Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.404$ S/m; $\epsilon_r = 51.622$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.9, 4.9, 4.9); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL LTE band4 HOT/LTE band4 20MHz 50RB 10mmM edge 4/Area Scan (6x15x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.147 W/kg Flat-Section MSL LTE band4 HOT/LTE band4 20MHz 50RB 10mmM edge 4/Zoom Scan (7x7x7)/Cube 0: 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 SAR(1 g) = 0.153 W/kg; SAR(10 g) = 0.088 W/kg Maximum value of SAR (measured) = 0.168 W/kg	
 0 dB = 0.147 W/kg = -8.33 dBW/kg	

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

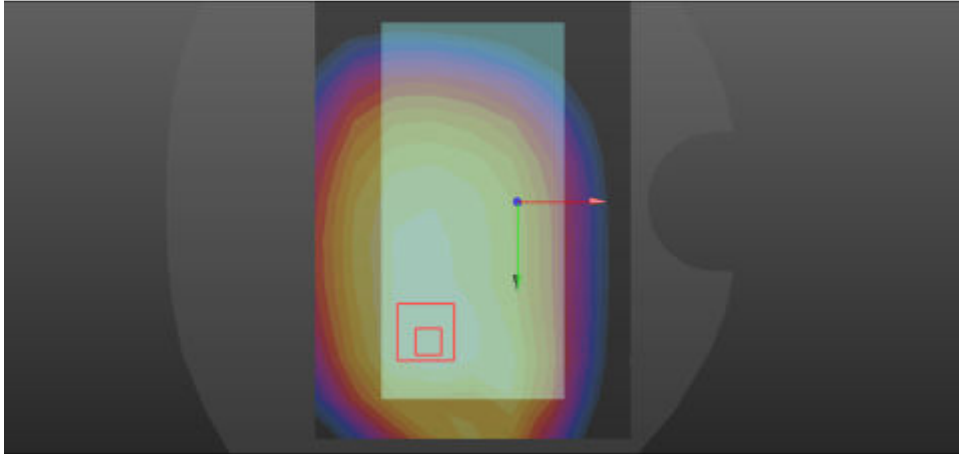
Left Side	Cheek
Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.89$ S/m; $\epsilon_r = 41.479$; $\rho = 1000$ kg/m³ Phantom section: Left Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.2, 6.2, 6.2); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section Left HSL LTE band5/LTE band5 20BW 1RB LOW HSL touch M/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.108 W/kg Head-Section Left HSL LTE band5/LTE band5 20BW 1RB LOW HSL touch M/Zoom Scan (7x7x7)/Cube 0: 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 SAR(1 g) = 0.102 W/kg; SAR(10 g) = 0.080 W/kg Maximum value of SAR (measured) = 0.107 W/kg	
dB 0 -1.72 -3.44 -5.15 -6.87 -8.59  0 dB = 0.107 W/kg = -9.71 dBW/kg	

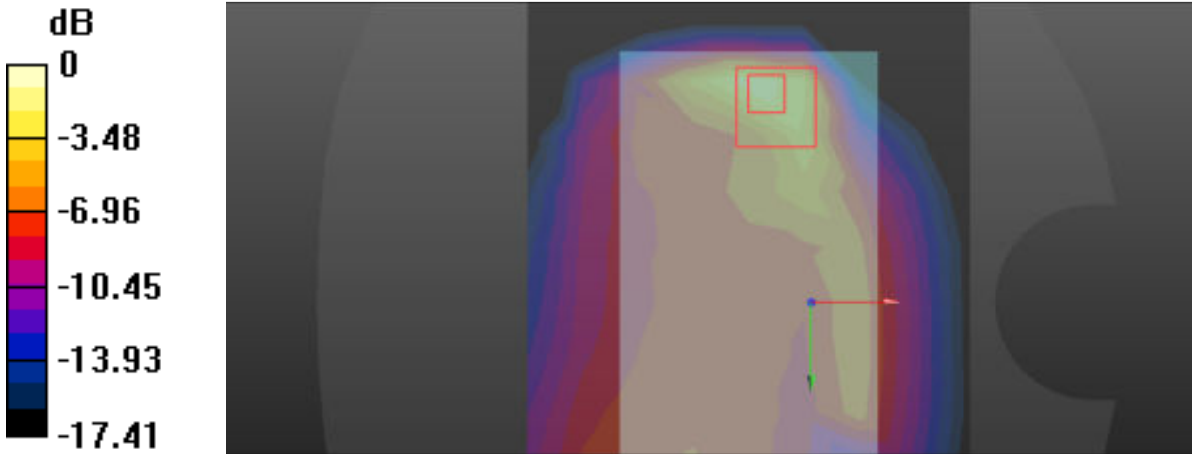
Left Side	Tilt
Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): $f = 836.5 \text{ MHz}$; $\sigma = 0.89 \text{ S/m}$; $\epsilon_r = 41.479$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Left Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.2, 6.2, 6.2); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section Left HSL LTE band5/LTE band5 20BW 1RB LOW HSL tilt M/Area Scan (8x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.0714 W/kg Head-Section Left HSL LTE band5/LTE band5 20BW 1RB LOW HSL tilt M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 5.588 V/m; Power Drift = -0.04 dB Peak SAR (extrapolated) = 0.0860 W/kg SAR(1 g) = 0.069 W/kg; SAR(10 g) = 0.054 W/kg Maximum value of SAR (measured) = 0.0726 W/kg   0 dB = 0.0726 W/kg = -11.39 dBW/kg	

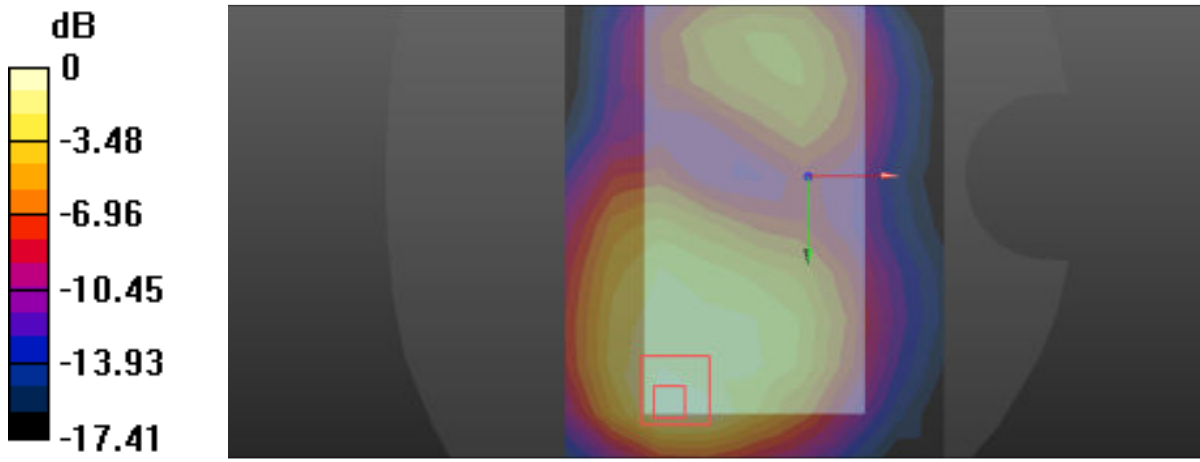
Right Side	Cheek
Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): $f = 836.5 \text{ MHz}$; $\sigma = 0.89 \text{ S/m}$; $\epsilon_r = 41.479$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Right Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.2, 6.2, 6.2); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section Right HSL LTE band5/LTE band5 20BW 1RB LOW HSL touch M/Area Scan (8x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.129 W/kg Head-Section Right HSL LTE band5/LTE band5 20BW 1RB LOW HSL touch M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 3.210 V/m; Power Drift = -0.10 dB Peak SAR (extrapolated) = 0.160 W/kg SAR(1 g) = 0.129 W/kg; SAR(10 g) = 0.101 W/kg Maximum value of SAR (measured) = 0.136 W/kg 0 dB = 0.136 W/kg = -8.66 dBW/kg	

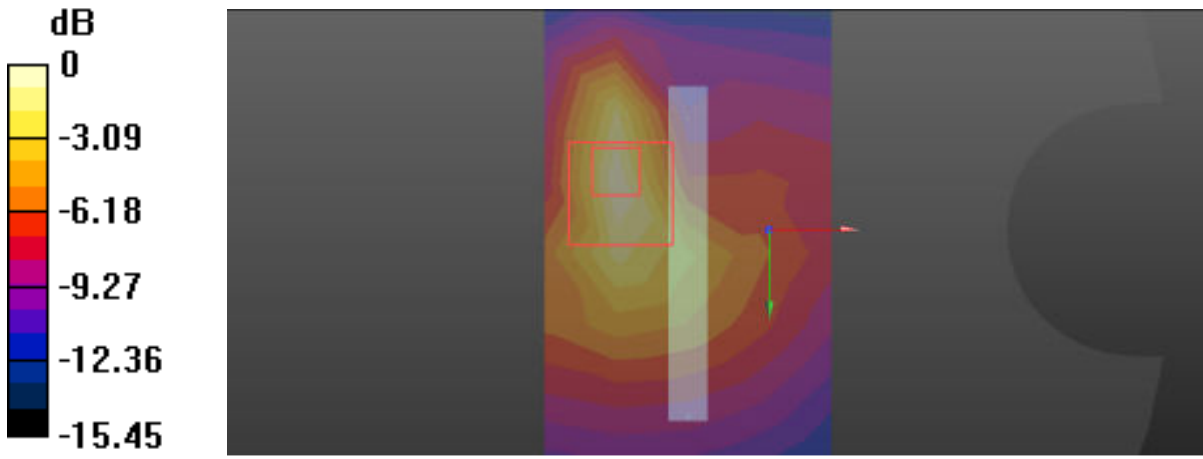
Right Side	Tilt
Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): $f = 836.5 \text{ MHz}$; $\sigma = 0.89 \text{ S/m}$; $\epsilon_r = 41.479$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Right Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.2, 6.2, 6.2); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section Right HSL LTE band5/LTE band5 20BW 1RB LOW HSL tilt M/Area Scan (8x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.0768 W/kg Head-Section Right HSL LTE band5/LTE band5 20BW 1RB LOW HSL tilt M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 5.520 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 0.0890 W/kg SAR(1 g) = 0.074 W/kg; SAR(10 g) = 0.057 W/kg Maximum value of SAR (measured) = 0.0775 W/kg 0 dB = 0.0775 W/kg = -11.11 dBW/kg	

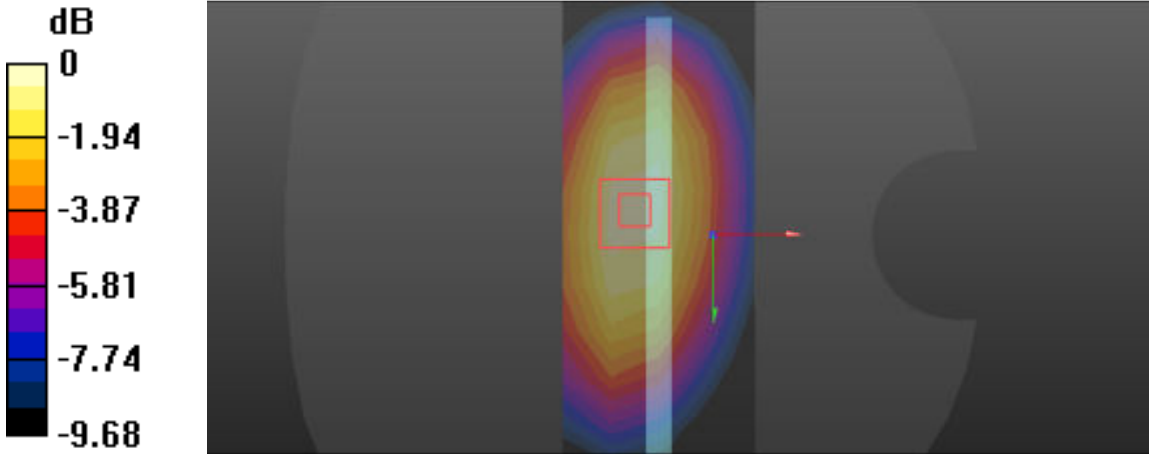
LTE (Band 5 20BW-1RB-Low/Flat)

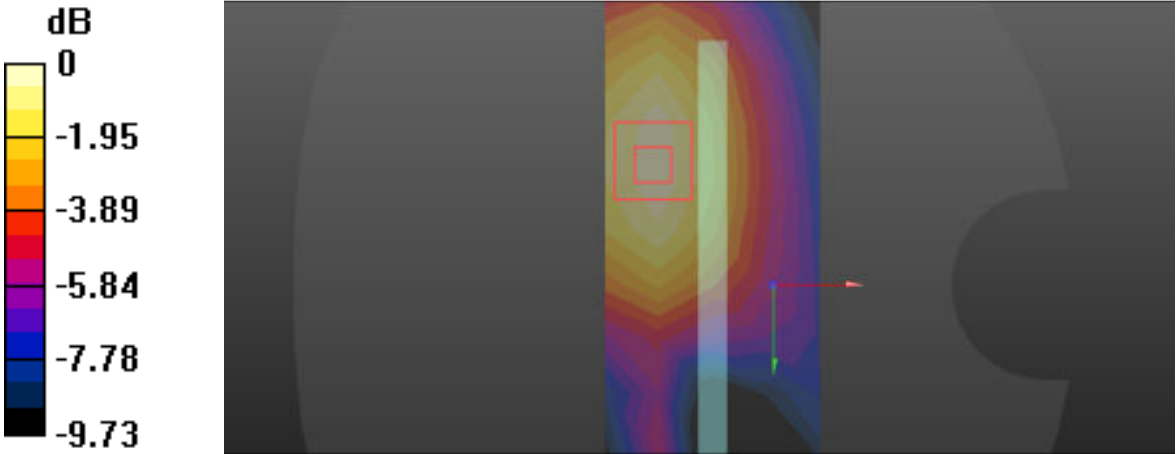
FLAT	Towards phantom
Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.96$ S/m; $\epsilon_r = 55.859$; $\rho = 1000$ kg/m³ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.16, 6.16, 6.16); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL LTE band5 TP/LTE band5 TP 20BW 1RB LOW M 10mm/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.170 W/kg Flat-Section MSL LTE band5 TP/LTE band5 TP 20BW 1RB LOW M 10mm/Zoom Scan (7x7x7)/Cube 0: 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 SAR(1 g) = 0.167 W/kg; SAR(10 g) = 0.122 W/kg Maximum value of SAR (measured) = 0.178 W/kg	
dB 0 -2.81 -5.63 -8.44 -11.26 -14.07  0 dB = 0.178 W/kg = -7.50 dBW/kg	

FLAT	Towards ground
Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): $f = 836.5 \text{ MHz}$; $\sigma = 0.96 \text{ S/m}$; $\epsilon_r = 55.859$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.16, 6.16, 6.16); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL LTE band5 TG/LTE band5 TG 20BW 1RB LOW M 10mm/Area Scan (9x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.237 W/kg Flat-Section MSL LTE band5 TG/LTE band5 TG 20BW 1RB LOW M 10mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 14.57 V/m; Power Drift = -0.00 dB Peak SAR (extrapolated) = 0.778 W/kg SAR(1 g) = 0.258 W/kg; SAR(10 g) = 0.111 W/kg Maximum value of SAR (measured) = 0.318 W/kg  0 dB = 0.318 W/kg = -4.98 dBW/kg	

FLAT	Towards ground
Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): $f = 836.5 \text{ MHz}$; $\sigma = 0.96 \text{ S/m}$; $\epsilon_r = 55.859$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.16, 6.16, 6.16); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL LTE band5 TG/LTE band5 TG 20BW 1RB LOW M 10mm/Area Scan (9x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.222 W/kg Flat-Section MSL LTE band5 TG/LTE band5 TG 20BW 1RB LOW M 10mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 14.79 V/m; Power Drift = -0.10 dB Peak SAR (extrapolated) = 0.691 W/kg SAR(1 g) = 0.271 W/kg; SAR(10 g) = 0.098 W/kg Maximum value of SAR (measured) = 0.294 W/kg  0 dB = 0.314 W/kg = -5.03 dBW/kg	

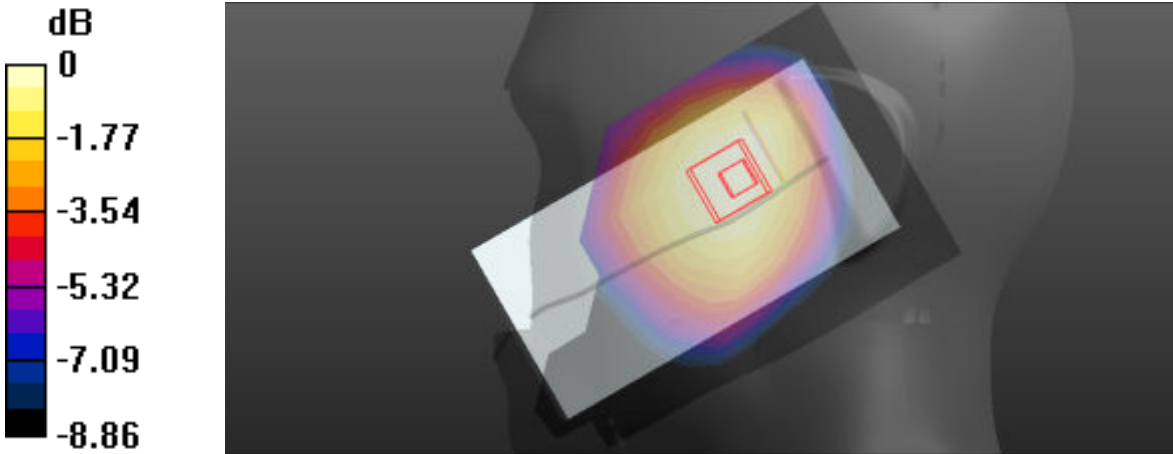
FLAT	EDGE2
Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): $f = 836.5 \text{ MHz}$; $\sigma = 0.96 \text{ S/m}$; $\epsilon_r = 55.859$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.16, 6.16, 6.16); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL LTE band5 HOT/LTE Band2 edge2/Area Scan (5x9x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.144 W/kg Flat-Section MSL LTE band5 HOT/LTE Band2 edge2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 7.638 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 0.244 W/kg SAR(1 g) = 0.125 W/kg; SAR(10 g) = 0.064 W/kg Maximum value of SAR (measured) = 0.146 W/kg  0 dB = 0.146 W/kg = -8.36 dBW/kg	

FLAT	EDGE3
Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): $f = 836.5 \text{ MHz}$; $\sigma = 0.96 \text{ S/m}$; $\epsilon_r = 55.859$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.16, 6.16, 6.16); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL LTE band5 HOT/LTE Band2 edge3/Area Scan (5x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.293 W/kg Flat-Section MSL LTE band5 HOT/LTE Band2 edge3/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 17.21 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 0.409 W/kg SAR(1 g) = 0.293 W/kg; SAR(10 g) = 0.201 W/kg Maximum value of SAR (measured) = 0.314 W/kg	
 0 dB = 0.314 W/kg = -5.03 dBW/kg	

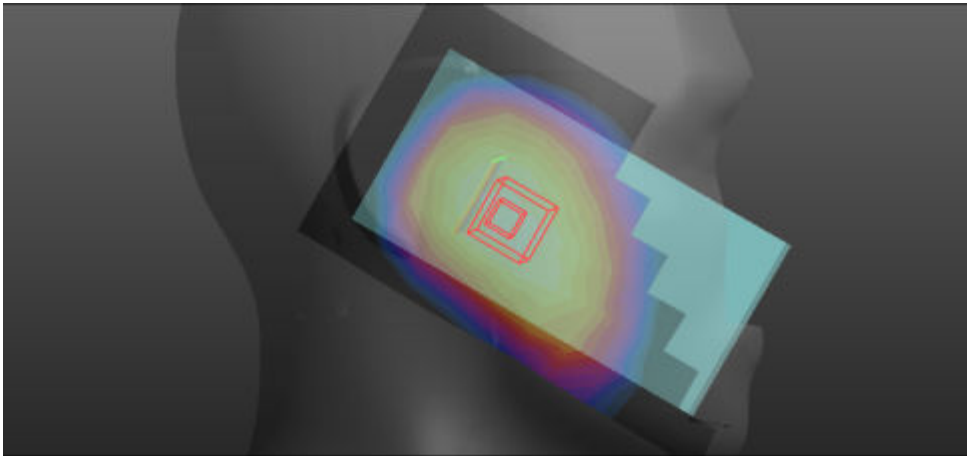
FLAT	EDGE4
Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): $f = 836.5 \text{ MHz}$; $\sigma = 0.96 \text{ S/m}$; $\epsilon_r = 55.859$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.16, 6.16, 6.16); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL LTE band5 HOT/LTE Band2 edge4/Area Scan (5x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.0655 W/kg Flat-Section MSL LTE band5 HOT/LTE Band2 edge4/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 5.440 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 0.0860 W/kg SAR(1 g) = 0.062 W/kg; SAR(10 g) = 0.043 W/kg Maximum value of SAR (measured) = 0.0662 W/kg  0 dB = 0.0662 W/kg = -11.79 dBW/kg	

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

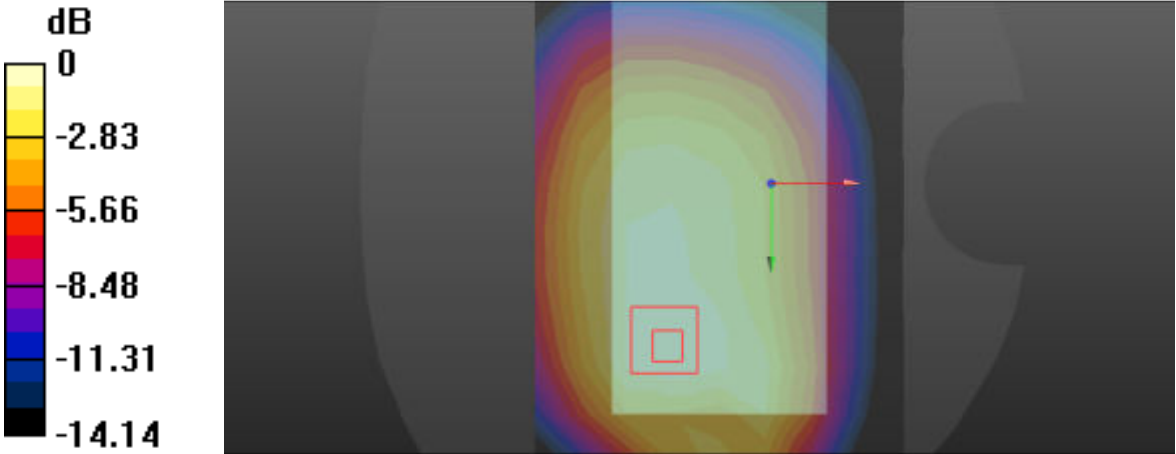
Left Side	Cheek
Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): $f = 836.5 \text{ MHz}$; $\sigma = 0.89 \text{ S/m}$; $\epsilon_r = 41.479$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Left Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.2, 6.2, 6.2); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section Left HSL LTE band5/LTE band5 20BW 50RB LOW HSL touch M/Area Scan (8x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.101 W/kg Head-Section Left HSL LTE band5/LTE band5 20BW 50RB LOW HSL touch M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 2.730 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 0.127 W/kg SAR(1 g) = 0.102 W/kg; SAR(10 g) = 0.080 W/kg Maximum value of SAR (measured) = 0.107 W/kg dB 0 -1.67 -3.34 -5.00 -6.67 -8.34 0 dB = 0.107 W/kg = -9.71 dBW/kg	

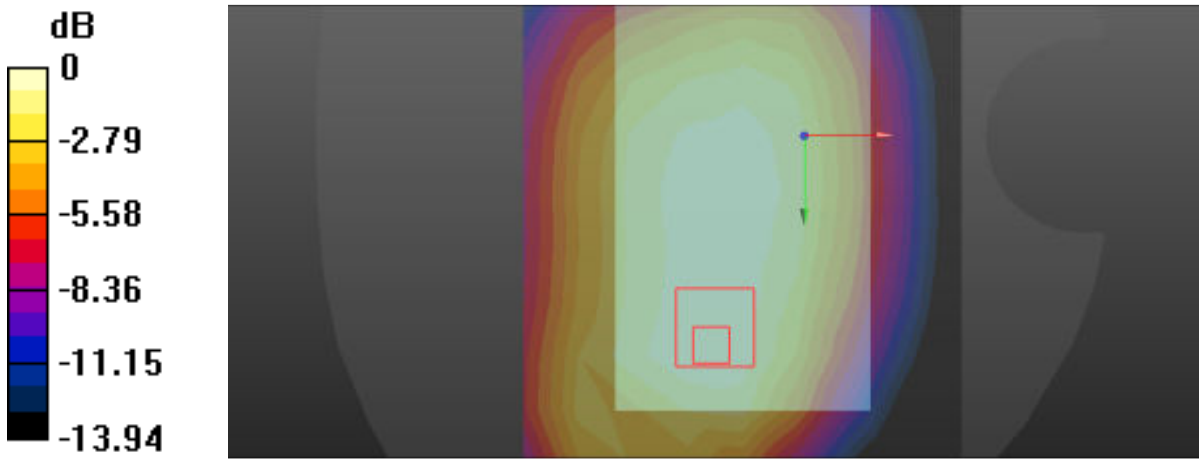
Left Side	Tilt
Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): $f = 836.5 \text{ MHz}$; $\sigma = 0.89 \text{ S/m}$; $\epsilon_r = 41.479$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Left Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.2, 6.2, 6.2); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section Left HSL LTE band5/LTE band5 20BW 50RB LOW HSL tilt M/Area Scan (8x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.0603 W/kg Head-Section Left HSL LTE band5/LTE band5 20BW 50RB LOW HSL tilt M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 5.173 V/m; Power Drift = 0.00 dB Peak SAR (extrapolated) = 0.0760 W/kg SAR(1 g) = 0.059 W/kg; SAR(10 g) = 0.045 W/kg Maximum value of SAR (measured) = 0.0613 W/kg  0 dB = 0.0613 W/kg = -12.13 dBW/kg	

Right Side	Cheek
Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): $f = 836.5 \text{ MHz}$; $\sigma = 0.89 \text{ S/m}$; $\epsilon_r = 41.479$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Right Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.2, 6.2, 6.2); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section Right HSL LTE band5/LTE band5 20BW 50RB LOW HSL touch M/Area Scan (8x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.0974 W/kg Head-Section Right HSL LTE band5/LTE band5 20BW 50RB LOW HSL touch M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 3.890 V/m; Power Drift = -0.01 dB Peak SAR (extrapolated) = 0.123 W/kg SAR(1 g) = 0.099 W/kg; SAR(10 g) = 0.077 W/kg Maximum value of SAR (measured) = 0.103 W/kg 0 dB = 0.103 W/kg = -9.87 dBW/kg	

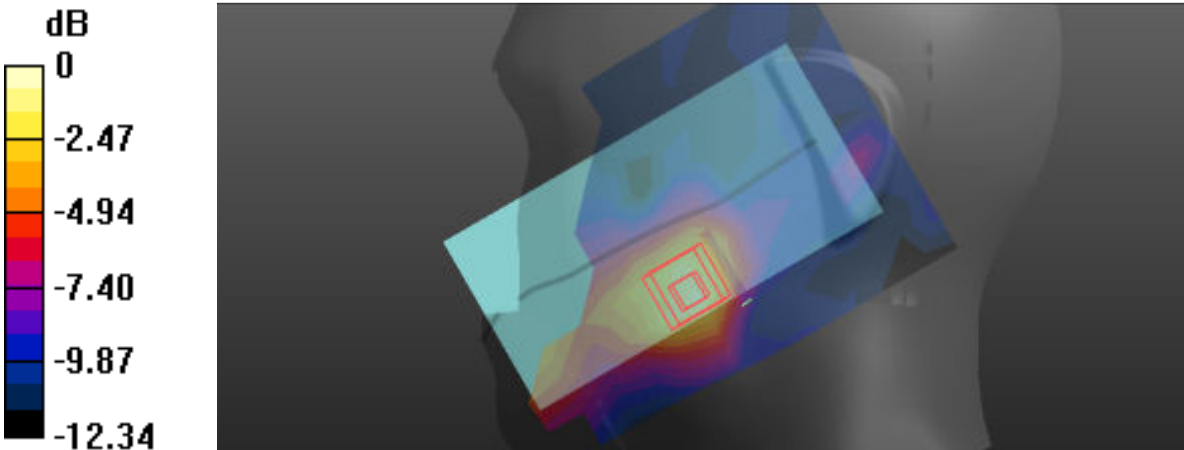
Right Side	Tilt
Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): $f = 836.5 \text{ MHz}$; $\sigma = 0.89 \text{ S/m}$; $\epsilon_r = 41.479$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Right Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.2, 6.2, 6.2); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section Right HSL LTE band5/LTE band5 20BW 50RB LOW HSL tilt M/Area Scan (8x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.0550 W/kg Head-Section Right HSL LTE band5/LTE band5 20BW 50RB LOW HSL tilt M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 5.426 V/m; Power Drift = 0.15 dB Peak SAR (extrapolated) = 0.0670 W/kg SAR(1 g) = 0.054 W/kg; SAR(10 g) = 0.042 W/kg Maximum value of SAR (measured) = 0.0567 W/kg	
dB 0 -1.65 -3.30 -4.95 -6.60 -8.25  0 dB = 0.0567 W/kg = -12.46 dBW/kg	

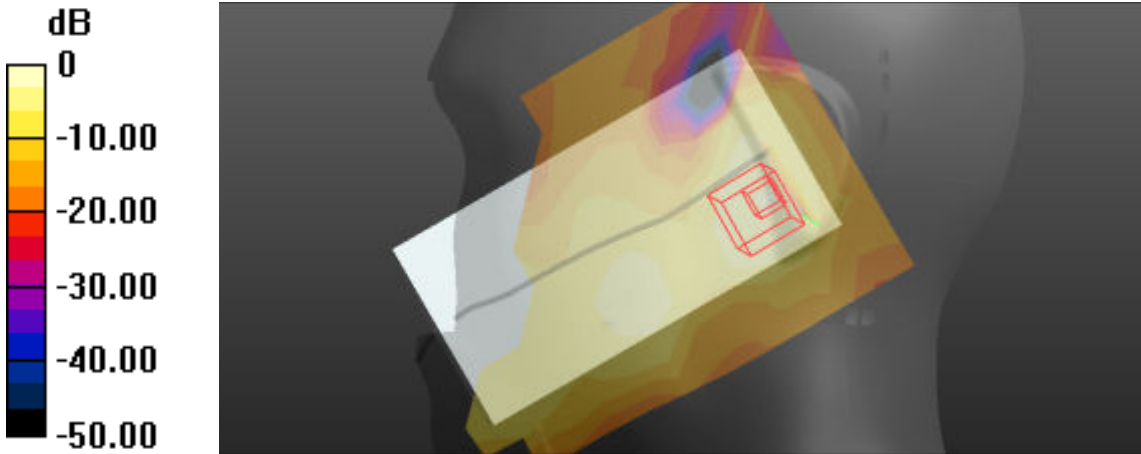
LTE (Band 5 20BW-50RB-Low/Flat)

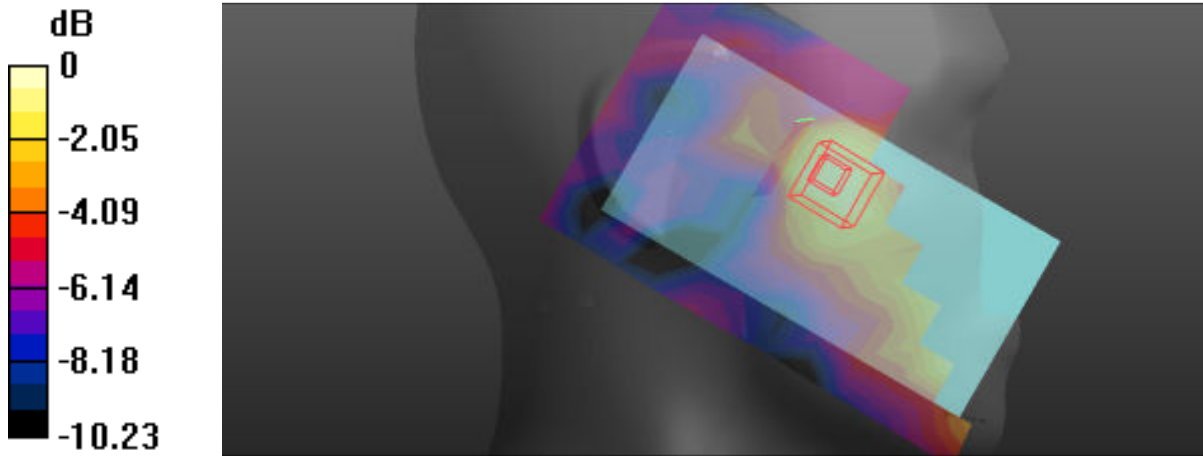
FLAT	Towards phantom
Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): $f = 836.5 \text{ MHz}$; $\sigma = 0.96 \text{ S/m}$; $\epsilon_r = 55.859$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.16, 6.16, 6.16); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL LTE band5 TP/LTE band5 TP 20BW 50RB LOW M 10mm/Area Scan (9x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.146 W/kg Flat-Section MSL LTE band5 TP/LTE band5 TP 20BW 50RB LOW M 10mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 10.69 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 0.193 W/kg SAR(1 g) = 0.145 W/kg; SAR(10 g) = 0.104 W/kg Maximum value of SAR (measured) = 0.153 W/kg	
 0 dB = 0.153 W/kg = -8.15 dBW/kg	

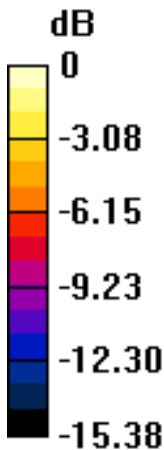
FLAT	Towards ground
Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): $f = 836.5 \text{ MHz}$; $\sigma = 0.96 \text{ S/m}$; $\epsilon_r = 55.859$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(6.16, 6.16, 6.16); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL LTE band5 TG/LTE band5 TG 20BW 50RB LOW M 10mm/Area Scan (9x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.178 W/kg Flat-Section MSL LTE band5 TG/LTE band5 TG 20BW 50RB LOW M 10mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 13.44 V/m; Power Drift = -0.03 dB Peak SAR (extrapolated) = 0.227 W/kg SAR(1 g) = 0.174 W/kg; SAR(10 g) = 0.127 W/kg Maximum value of SAR (measured) = 0.184 W/kg  0 dB = 0.184 W/kg = -7.35 dBW/kg	

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

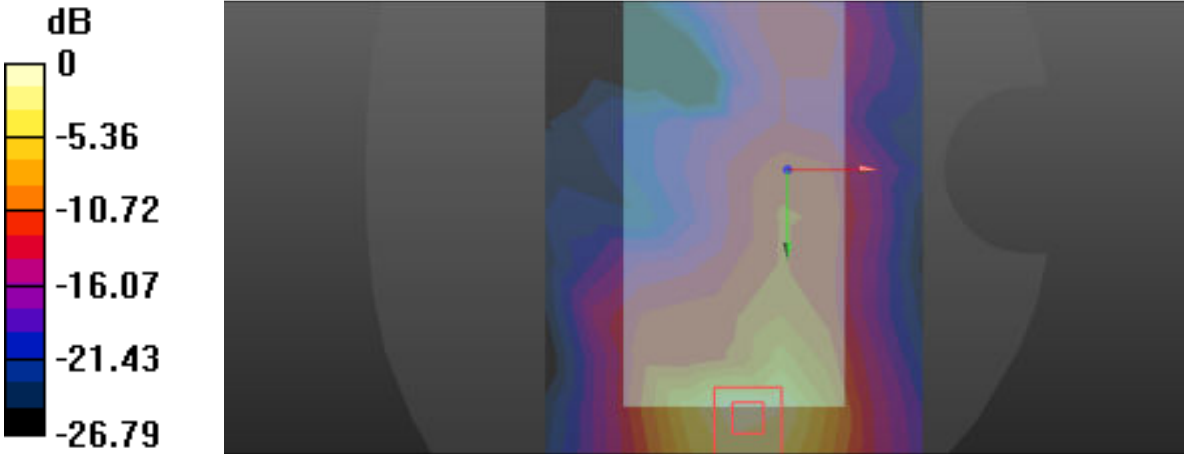
Left Side	Cheek
Communication System: UID 10169 - CAB, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 2535 MHz;Duty Cycle: 1:3.74111 Medium parameters used: $f = 2535 \text{ MHz}$; $\sigma = 2.01 \text{ S/m}$; $\epsilon_r = 36.5$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Left Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section HSL LTE band7 Left/LTE band7 20MHz 1RB Low HSL touch M/Area Scan (9x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.0626 W/kg Head-Section HSL LTE band7 Left/LTE band7 20MHz 1RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 0.9200 V/m; Power Drift = 0.08 dB Peak SAR (extrapolated) = 0.125 W/kg SAR(1 g) = 0.064 W/kg; SAR(10 g) = 0.034 W/kg Maximum value of SAR (measured) = 0.0706 W/kg	
 0 dB = 0.0706 W/kg = -11.51 dBW/kg	

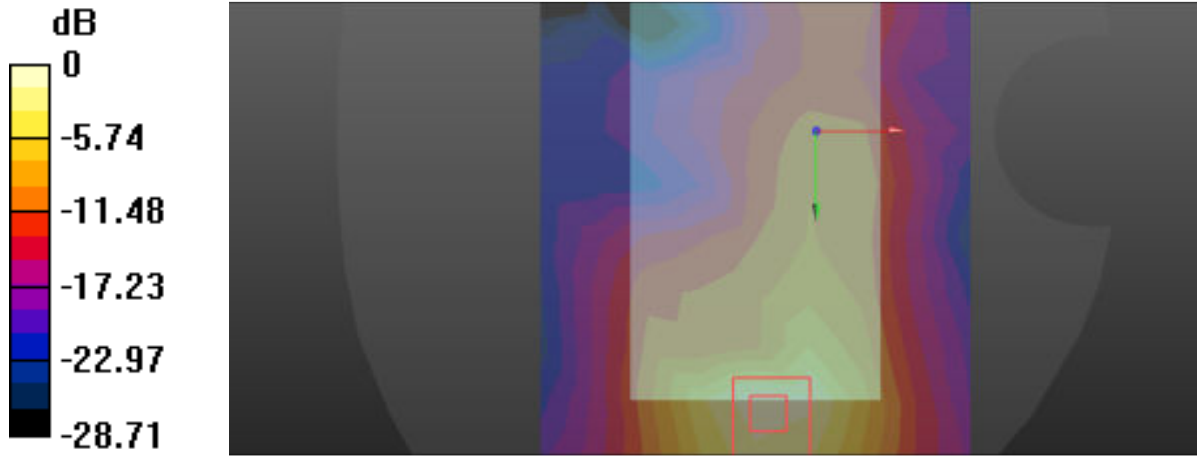
Left Side	Tilt
Communication System: UID 10297 - AAA, LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK); Frequency: 2535 MHz;Duty Cycle: 1:3.81066 Medium parameters used: f = 2535 MHz; $\sigma = 2.01$ S/m; $\epsilon_r = 36.5$; $\rho = 1000$ kg/m³ Phantom section: Left Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section HSL LTE band7 Left/LTE band7 20MHz 1RB Low HSL tilt M/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.0227 W/kg Head-Section HSL LTE band7 Left/LTE band7 20MHz 1RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 3.333 V/m; Power Drift = -0.04 dB Peak SAR (extrapolated) = 0.101 W/kg SAR(1 g) = 0.027 W/kg; SAR(10 g) = 0.012 W/kg Maximum value of SAR (measured) = 0.0448 W/kg  0 dB = 0.0448 W/kg = -13.49 dBW/kg	

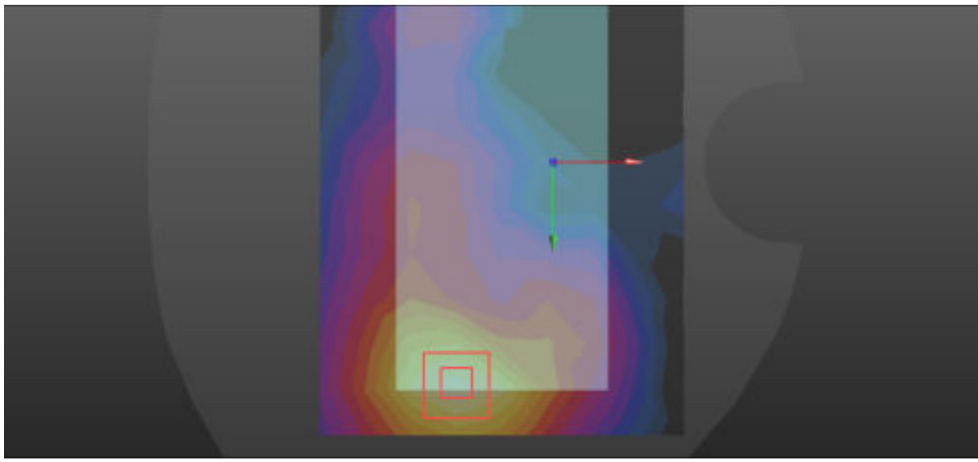
Right Side	Cheek
Communication System: UID 0, LTE band 07 (0); Frequency: 2535 MHz;Duty Cycle: 1:1 Medium parameters used: $f = 2535 \text{ MHz}$; $\sigma = 2.01 \text{ S/m}$; $\epsilon_r = 36.5$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Right Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section HSL LTE band7 Right/LTE band7 20MHz 1RB Low HSL touch M/Area Scan (8x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.0324 W/kg Head-Section HSL LTE band7 Right/LTE band7 20MHz 1RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 1.823 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 0.0730 W/kg SAR(1 g) = 0.034 W/kg; SAR(10 g) = 0.021 W/kg Maximum value of SAR (measured) = 0.0370 W/kg  0 dB = 0.0370 W/kg = -14.32 dBW/kg	

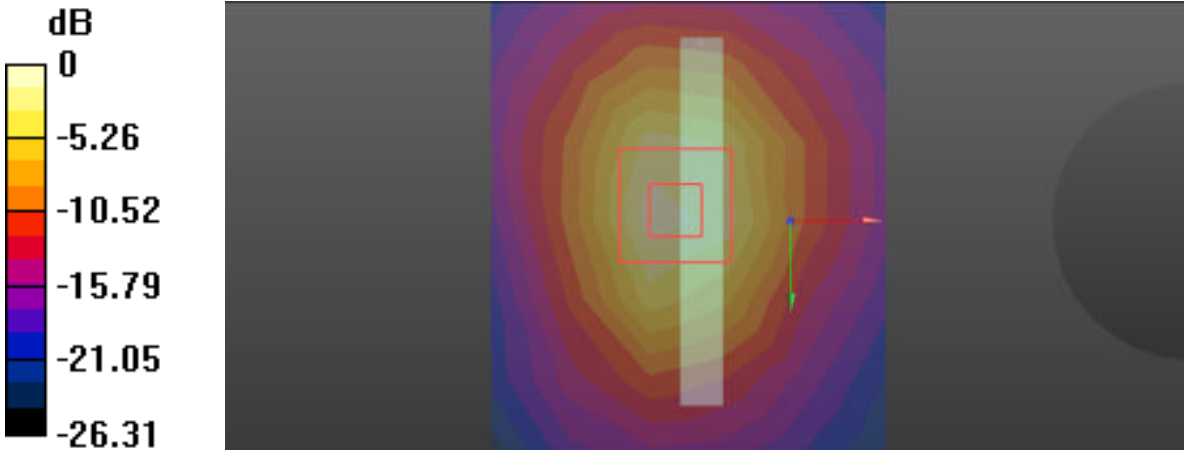
Right Side	Tilt
Communication System: UID 0, LTE band 07 (0); Frequency: 2535 MHz;Duty Cycle: 1:1 Medium parameters used: $f = 2535 \text{ MHz}$; $\sigma = 2.01 \text{ S/m}$; $\epsilon_r = 36.5$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Right Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section HSL LTE band7 Right/LTE band7 20MHz 1RB Low HSL tilt M/Area Scan (8x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.0220 W/kg Head-Section HSL LTE band7 Right/LTE band7 20MHz 1RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 2.632 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 0.112 W/kg SAR(1 g) = 0.030 W/kg; SAR(10 g) = 0.013 W/kg Maximum value of SAR (measured) = 0.0699 W/kg  0 dB = 0.0699 W/kg = -11.56 dBW/kg	

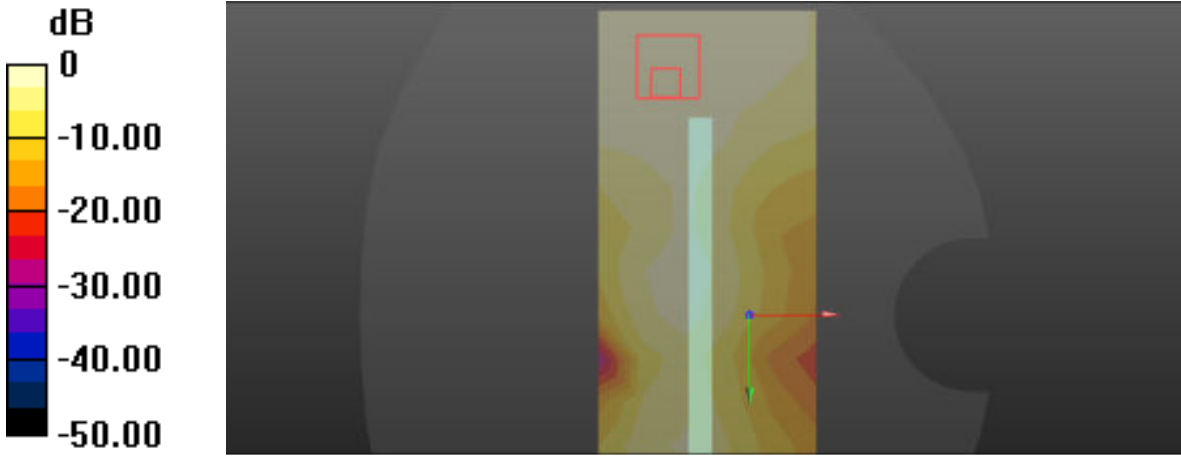
LTE (Band 7 20BW-1RB-Low/Flat)

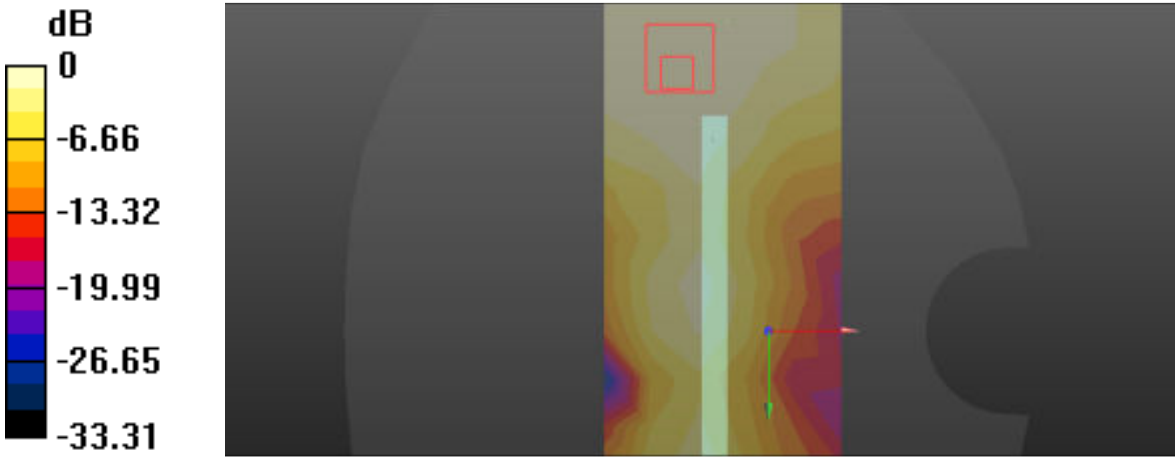
FLAT	Towards phantom
Communication System: UID 10169 - CAB, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 2535 MHz;Duty Cycle: 1:3.74111 Medium parameters used: $f = 2535 \text{ MHz}$; $\sigma = 2.15 \text{ S/m}$; $\epsilon_r = 50.36$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.17, 4.17, 4.17); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL LTE band7 TP/LTE band7 TP 20MHz 1RB M 10mm/Area Scan (9x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.318 W/kg Flat-Section MSL LTE band7 TP/LTE band7 TP 20MHz 1RB M 10mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 2.694 V/m; Power Drift = -0.01 dB Peak SAR (extrapolated) = 0.751 W/kg SAR(1 g) = 0.322 W/kg; SAR(10 g) = 0.146 W/kg Maximum value of SAR (measured) = 0.358 W/kg	
 0 dB = 0.358 W/kg = -4.46 dBW/kg	

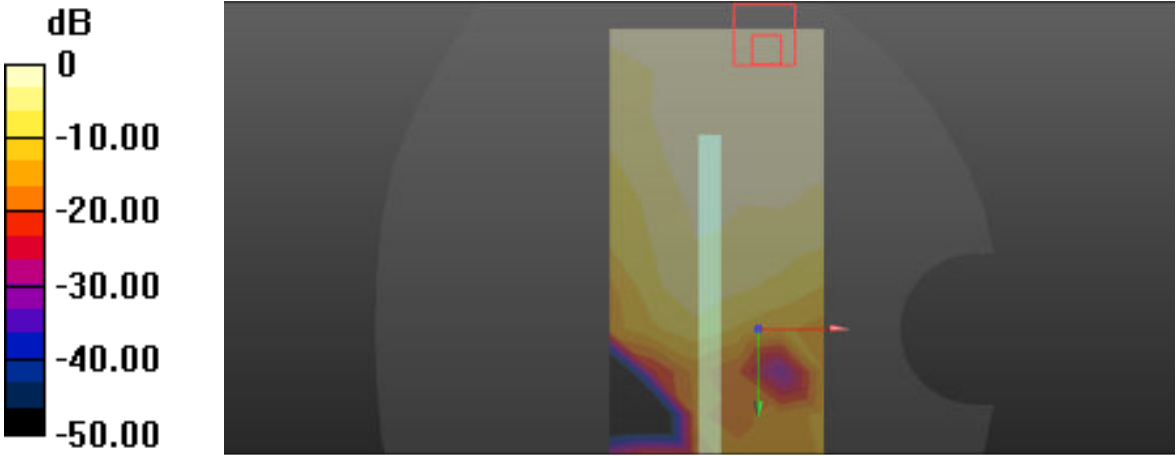
FLAT	Towards ground
Communication System: UID 10169 - CAB, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 2535 MHz;Duty Cycle: 1:3.74111 Medium parameters used: $f = 2535 \text{ MHz}$; $\sigma = 2.15 \text{ S/m}$; $\epsilon_r = 50.36$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.17, 4.17, 4.17); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL LTE band7 TG/LTE band7 TG 20MHz 1RB M 10mm/Area Scan (9x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.819 W/kg Flat-Section MSL LTE band7 TG/LTE band7 TG 20MHz 1RB M 10mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 2.102 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 1.82 W/kg SAR(1 g) = 0.740 W/kg; SAR(10 g) = 0.311 W/kg Maximum value of SAR (measured) = 0.840 W/kg  0 dB = 0.840 W/kg = -0.76 dBW/kg	

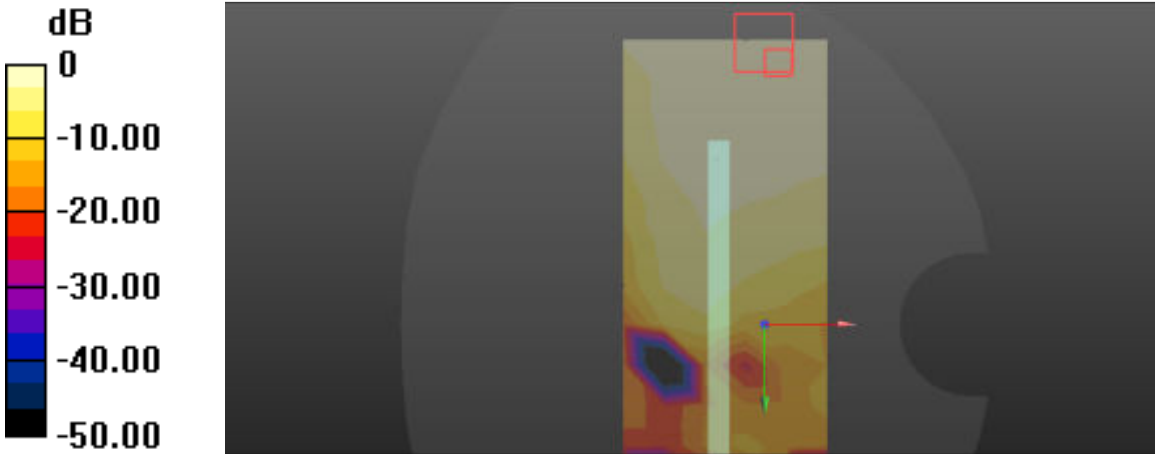
FLAT	Towards ground
Communication System: UID 10169 - CAB, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 2535 MHz;Duty Cycle: 1:3.74111 Medium parameters used: $f = 2535 \text{ MHz}$; $\sigma = 2.15 \text{ S/m}$; $\epsilon_r = 50.36$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.17, 4.17, 4.17); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL LTE band7 TG/LTE band7 TG 20MHz 1RB M 10mm/Area Scan (9x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.819 W/kg Flat-Section MSL LTE band7 TG/LTE band7 TG 20MHz 1RB M 10mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 2.306 V/m; Power Drift = 0.12 dB Peak SAR (extrapolated) = 1.24 W/kg SAR(1 g) = 0.691 W/kg; SAR(10 g) = 0.268 W/kg Maximum value of SAR (measured) = 0.729 W/kg	
dB 0 -5.74 -11.48 -17.23 -22.97 -28.71  0 dB = 0.0525 W/kg = -12.80 dBW/kg	

FLAT	EDGE2
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: - Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL LTE band7 HOT/LTE band7 20MHz 1RB 10mm M edge 2/Area Scan (6x11x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.493 W/kg Flat-Section MSL LTE band7 HOT/LTE band7 20MHz 1RB 10mm M edge 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 15.74 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 1.16 W/kg SAR(1 g) = 0.523 W/kg; SAR(10 g) = 0.234 W/kg Maximum value of SAR (measured) = 0.577 W/kg  0 dB = 0.577 W/kg = -2.39 dBW/kg	

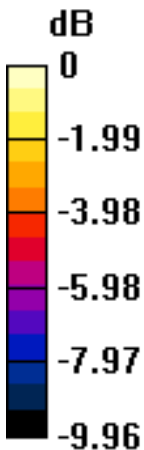
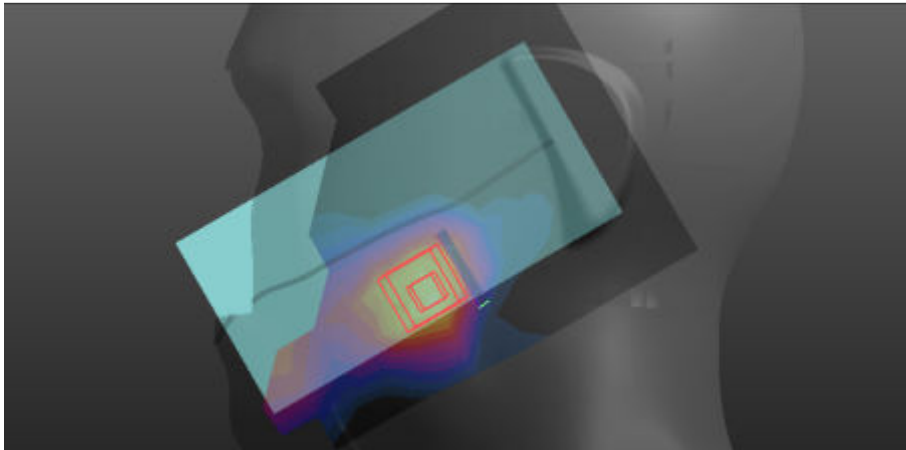
FLAT	EDGE3
Communication System: UID 0, LTE band 07 (0); Frequency: 2535 MHz;Duty Cycle: 1:1 Medium parameters used: $f = 2535 \text{ MHz}$; $\sigma = 2.01 \text{ S/m}$; $\epsilon_r = 36.5$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL LTE band7 HOT/LTE band7 20MHz 1RB 10mmM edge 3/Area Scan (6x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.0498 W/kg Flat-Section MSL LTE band7 HOT/LTE band7 20MHz 1RB 10mmM edge 3/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 3.938 V/m; Power Drift = 0.16 dB Peak SAR (extrapolated) = 0.103 W/kg SAR(1 g) = 0.049 W/kg; SAR(10 g) = 0.027 W/kg Maximum value of SAR (measured) = 0.0525 W/kg  0 dB = 0.0525 W/kg = -12.80 dBW/kg	

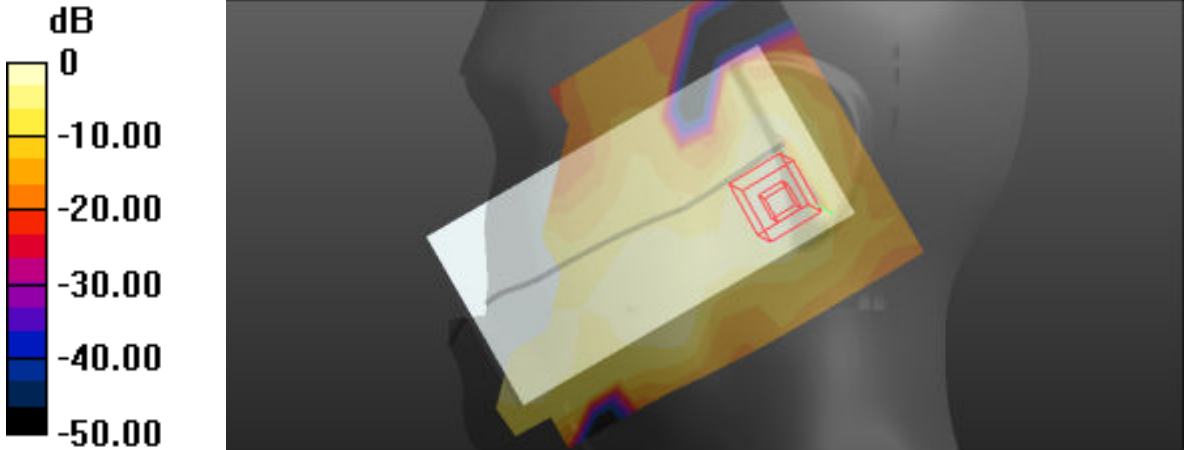
FLAT	EDGE3
Communication System: UID 0, LTE band 07 (0); Frequency: 2535 MHz;Duty Cycle: 1:1 Medium parameters used: $f = 2535 \text{ MHz}$; $\sigma = 2.01 \text{ S/m}$; $\epsilon_r = 36.5$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL LTE band7 HOT/LTE band7 20MHz 1RB 10mmM edge 3 2/Area Scan (6x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.0506 W/kg Flat-Section MSL LTE band7 HOT/LTE band7 20MHz 1RB 10mmM edge 3 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 3.939 V/m; Power Drift = 0.17 dB Peak SAR (extrapolated) = 0.104 W/kg SAR(1 g) = 0.050 W/kg; SAR(10 g) = 0.027 W/kg Maximum value of SAR (measured) = 0.0531 W/kg  0 dB = 0.0531 W/kg = -12.75 dBW/kg	

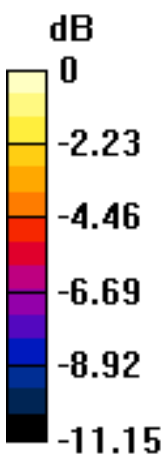
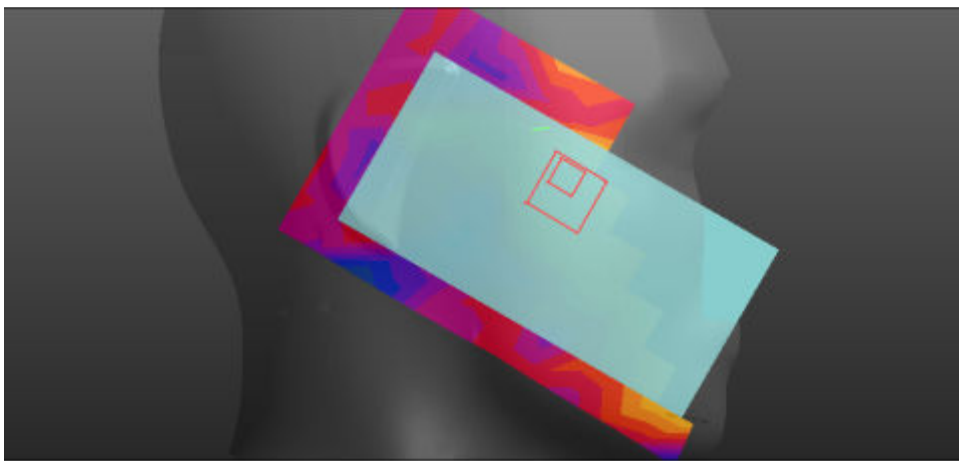
FLAT	EDGE4
Communication System: UID 0, LTE band 07 (0); Frequency: 2535 MHz;Duty Cycle: 1:1 Medium parameters used: $f = 2535 \text{ MHz}$; $\sigma = 2.01 \text{ S/m}$; $\epsilon_r = 36.5$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL LTE band7 HOT/LTE band7 20MHz 1RB 10mmM edge 4/Area Scan (6x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.0193 W/kg Flat-Section MSL LTE band7 HOT/LTE band7 20MHz 1RB 10mmM edge 4/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 1.183 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 0.0400 W/kg SAR(1 g) = 0.019 W/kg; SAR(10 g) = 0.010 W/kg Maximum value of SAR (measured) = 0.0196 W/kg  0 dB = 0.0196 W/kg = -17.08 dBW/kg	

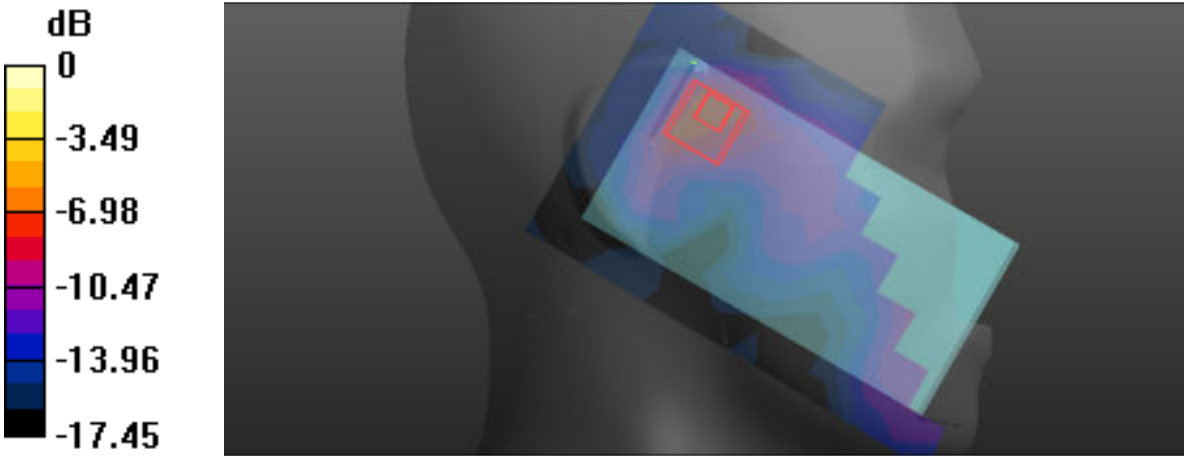
FLAT	EDGE4
Communication System: UID 0, LTE band 07 (0); Frequency: 2535 MHz;Duty Cycle: 1:1 Medium parameters used: $f = 2535 \text{ MHz}$; $\sigma = 2.01 \text{ S/m}$; $\epsilon_r = 36.5$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL LTE band7 HOT/LTE band7 20MHz 1RB 10mmM edge 4 2/Area Scan (6x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.0178 W/kg Flat-Section MSL LTE band7 HOT/LTE band7 20MHz 1RB 10mmM edge 4 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 1.043 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 0.0360 W/kg SAR(1 g) = 0.017 W/kg; SAR(10 g) = 0.00988 W/kg Maximum value of SAR (measured) = 0.0190 W/kg  0 dB = 0.0190 W/kg = -17.21 dBW/kg	

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

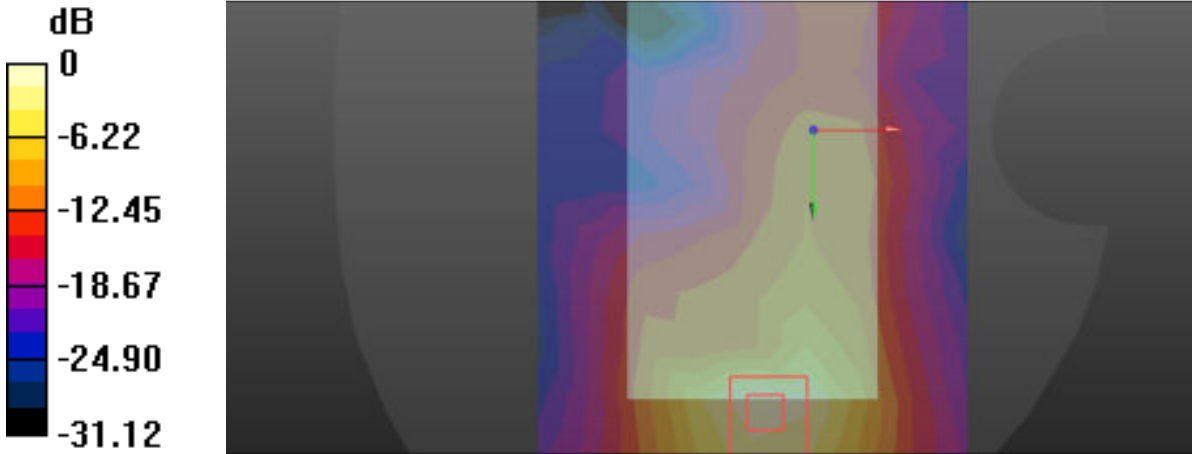
Left Side	Cheek
Communication System: UID 10169 - CAB, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 2535 MHz;Duty Cycle: 1:3.74111 Medium parameters used: $f = 2535 \text{ MHz}$; $\sigma = 2.01 \text{ S/m}$; $\epsilon_r = 36.5$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Left Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section HSL LTE band7 Left/LTE band7 20MHz 50RB Low HSL touch M/Area Scan (9x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.0544 W/kg Head-Section HSL LTE band7 Left/LTE band7 20MHz 50RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 1.993 V/m; Power Drift = 0.07 dB Peak SAR (extrapolated) = 0.132 W/kg SAR(1 g) = 0.057 W/kg; SAR(10 g) = 0.030 W/kg Maximum value of SAR (measured) = 0.0688 W/kg   0 dB = 0.0688 W/kg = -11.62 dBW/kg	

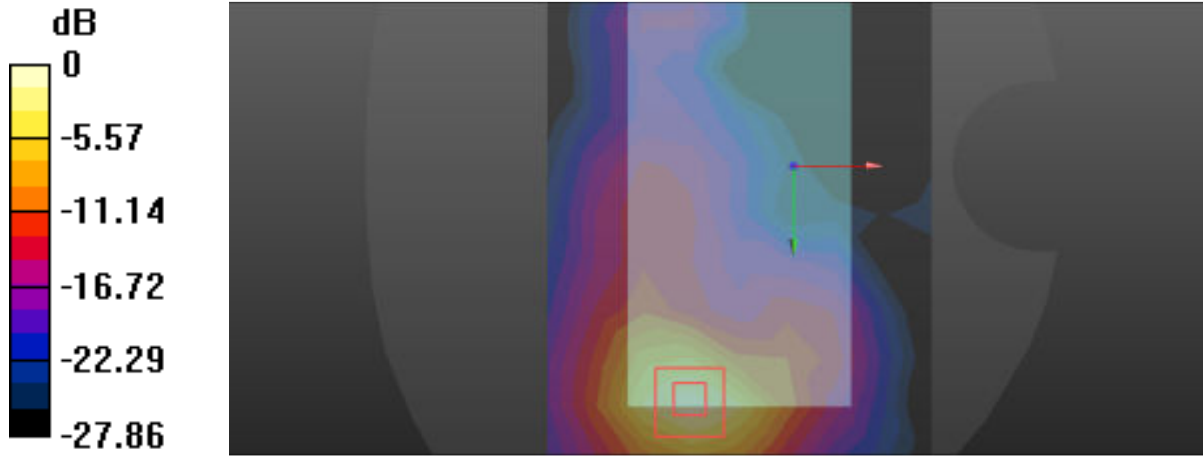
Left Side	Tilt
Communication System: UID 10297 - AAA, LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK); Frequency: 2535 MHz;Duty Cycle: 1:3.81066 Medium parameters used: f = 2535 MHz; $\sigma = 2.01$ S/m; $\epsilon_r = 36.5$; $\rho = 1000$ kg/m³ Phantom section: Left Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section HSL LTE band7 Left/LTE band7 20MHz 50RB Low HSL tilt M/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.0186 W/kg Head-Section HSL LTE band7 Left/LTE band7 20MHz 50RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0: 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 SAR(1 g) = 0.020 W/kg; SAR(10 g) = 0.00918 W/kg Maximum value of SAR (measured) = 0.0254 W/kg	
 0 dB = 0.0254 W/kg = -15.95 dBW/kg	

Right Side	Cheek
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: - Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section HSL LTE band7 Right/LTE band7 20MHz 50RB Low HSL touch M/Area Scan (8x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.0280 W/kg Head-Section HSL LTE band7 Right/LTE band7 20MHz 50RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 2.046 V/m; Power Drift = -0.02 dB Peak SAR (extrapolated) = 0.0730 W/kg SAR(1 g) = 0.029 W/kg; SAR(10 g) = 0.019 W/kg Maximum value of SAR (measured) = 0.0333 W/kg   0 dB = 0.0333 W/kg = -14.78 dBW/kg	

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: - Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Head-Section HSL LTE band7 Right/LTE band7 20MHz 50RB Low HSL tilt M/Area Scan (8x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.0188 W/kg Head-Section HSL LTE band7 Right/LTE band7 20MHz 50RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 2.520 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 0.424 W/kg SAR(1 g) = 0.035 W/kg; SAR(10 g) = 0.012 W/kg Maximum value of SAR (measured) = 0.0995 W/kg  0 dB = 0.0995 W/kg = -10.02 dBW/kg	

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

FLAT	Towards phantom
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: $f = 2535 \text{ MHz}$; $\sigma = 2.15 \text{ S/m}$; $\epsilon_r = 50.36$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.17, 4.17, 4.17); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL LTE band7 TP/LTE band7 TP 20MHz 50RB M 10mm/Area Scan (9x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.263 W/kg Flat-Section MSL LTE band7 TP/LTE band7 TP 20MHz 50RB M 10mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 2.398 V/m; Power Drift = 0.16 dB Peak SAR (extrapolated) = 0.624 W/kg SAR(1 g) = 0.270 W/kg; SAR(10 g) = 0.123 W/kg Maximum value of SAR (measured) = 0.296 W/kg	
 0 dB = 0.296 W/kg = -5.29 dBW/kg	

FLAT	Towards ground
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: $f = 2535 \text{ MHz}$; $\sigma = 2.15 \text{ S/m}$; $\epsilon_r = 50.36$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section DASY5 Configuration: - Probe: ES3DV3 - SN3127; ConvF(4.17, 4.17, 4.17); Calibrated: 2016/8/29; - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE4 Sn546; Calibrated: 2016/8/22 - Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373) Flat-Section MSL LTE band7 TG/LTE band7 TG 20MHz 50RB M 10mm/Area Scan (9x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.667 W/kg Flat-Section MSL LTE band7 TG/LTE band7 TG 20MHz 50RB M 10mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 1.967 V/m; Power Drift = 0.08 dB Peak SAR (extrapolated) = 1.51 W/kg SAR(1 g) = 0.613 W/kg; SAR(10 g) = 0.258 W/kg Maximum value of SAR (measured) = 0.688 W/kg	
 0 dB = 0.688 W/kg = -1.62 dBW/kg	

ANNEX B – RELEVANT PAGES FROM CALIBRATION REPORTS

DAE4 Sn:546

Calibration Laboratory of
Schweitz & Partner
Engineering AG
Bühlstrasse 10, 8000 Zurich, Switzerland

Accreditation No.: SCS 0108
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates.

Client: SRTC (YH4) Certificate No.: DAE4-S46_Aug18

CALIBRATION CERTIFICATE

Object: DAE4 - SC 001 D4 001 - SN: 546

Calibration procedure(s): DA-CAL-06-v09
Calibration procedure for the data acquisition electronics (DAE)

Calibration date: August 28, 2018

This calibration certificate documents the traceability to national standards, which require the physical units of measurement (SI).
The measurement and the parameter with confidence probability is given on the following pages and are part of this certificate.

All calibrations have been conducted in the calibration laboratory facility, environmental temperature (22 ± 0.2°C) and humidity: < 10%.

Calibration equipment used (BIF) subject to verification:

Process Standards	DAE4	DA-CAL-06-v09	Calibration Certificate
Accuracy standards Type 2011	DAE4-001/01	DA-CAL-06-v09	DAE4-001/01
Resolution standards	DAE4	DA-CAL-06-v09	DAE4-001/01
Auto DAE Calibration unit	DAE4-001/01	DA-CAL-06-v09	DAE4-001/01
Calibration Date (Y)	2018-08-28	2018-08-28	2018-08-28

Calibration by: Hansjörg Schweizer
Approved by: Hansjörg Schweizer
Signed: Hansjörg Schweizer

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

Certificate No.: DAE4-S46_Aug18 Page 1 of 5

Calibration Laboratory of
Schweitz & Partner
Engineering AG
Bühlstrasse 10, 8000 Zurich, Switzerland

Accreditation No.: SCS 0108
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates.

Client: SRTC (YH4) Certificate No.: DAE4-S46_Aug18

CALIBRATION CERTIFICATE

Object: DAE4 - SC 001 D4 001 - SN: 546

Calibration procedure(s): DA-CAL-06-v09
Calibration procedure for the data acquisition electronics (DAE)

Calibration date: August 28, 2018

This calibration certificate documents the traceability to national standards, which require the physical units of measurement (SI).
The measurement and the parameter with confidence probability is given on the following pages and are part of this certificate.

All calibrations have been conducted in the calibration laboratory facility, environmental temperature (22 ± 0.2°C) and humidity: < 10%.

Calibration equipment used (BIF) subject to verification:

Process Standards	DAE4	DA-CAL-06-v09	Calibration Certificate
Accuracy standards Type 2011	DAE4-001/01	DA-CAL-06-v09	DAE4-001/01
Resolution standards	DAE4	DA-CAL-06-v09	DAE4-001/01
Auto DAE Calibration unit	DAE4-001/01	DA-CAL-06-v09	DAE4-001/01
Calibration Date (Y)	2018-08-28	2018-08-28	2018-08-28

Calibration by: Hansjörg Schweizer
Approved by: Hansjörg Schweizer
Signed: Hansjörg Schweizer

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

Certificate No.: DAE4-S46_Aug18 Page 2 of 5

Appendix (Additional assessments outside the scope of SCS 0108)

1. DC Voltage Uncertainty

High Range	Reading (µV)	Difference (µV)	Error (%)
Channel X -> Input	20000.74	-0.76	-0.00
Channel X -> Input	20000.88	-0.76	-0.00
Channel Y -> Input	20000.88	-0.76	-0.00
Channel Y -> Input	20000.88	-0.76	-0.00
Channel Z -> Input	20000.88	-0.76	-0.00
Channel Z -> Input	20000.88	-0.76	-0.00
Channel X -> Input	20000.88	-0.76	-0.00
Channel X -> Input	20000.88	-0.76	-0.00
Channel Y -> Input	20000.88	-0.76	-0.00
Channel Y -> Input	20000.88	-0.76	-0.00
Channel Z -> Input	20000.88	-0.76	-0.00
Channel Z -> Input	20000.88	-0.76	-0.00
Low Range	Reading (µV)	Difference (µV)	Error (%)
Channel X -> Input	2000.00	-0.10	-0.00
Channel X -> Input	2000.00	-0.10	-0.00
Channel Y -> Input	2000.00	-0.10	-0.00
Channel Y -> Input	2000.00	-0.10	-0.00
Channel Z -> Input	2000.00	-0.10	-0.00
Channel Z -> Input	2000.00	-0.10	-0.00
Channel X -> Input	2000.00	-0.10	-0.00
Channel X -> Input	2000.00	-0.10	-0.00
Channel Y -> Input	2000.00	-0.10	-0.00
Channel Y -> Input	2000.00	-0.10	-0.00
Channel Z -> Input	2000.00	-0.10	-0.00
Channel Z -> Input	2000.00	-0.10	-0.00

2. Common mode sensitivity

DAE4 measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec	Common mode Input Voltage (µV)	High Range Average Reading (µV)	Low Range Average Reading (µV)
Channel X	200	1.40	0.10
Channel X	-200	1.41	0.10
Channel Y	200	4.48	0.13
Channel Y	-200	1.08	0.08
Channel Z	200	0.18	0.17
Channel Z	-200	4.00	0.00

3. Channel separation

DAE4 measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec	Input Voltage (µV)	Channel X (µV)	Channel Y (µV)	Channel Z (µV)
Channel X	200	-	-0.01	-0.43
Channel Y	200	8.17	-	-1.80
Channel Z	200	5.58	7.80	-

Certificate No.: DAE4-S46_Aug18

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4. AD-Converter Values with inputs shorted

DAE4 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

DAE4 measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Input 10mV	Average (µV)	min. Offset (µV)	max. Offset (µV)	Std. 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

6. Input Offset Current

Nominal input circuitry offset current on all channels: <25fA

7. Input Resistance (Typical values for information)

	Zeroing (kOhm)	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)	+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

Certificate No.: DAE4-S46_Aug18

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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

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

	Average (μV)	min. Offset (μV)	max. Offset (μV)	Std. 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

6. Input Offset Current

Nominal input circuitry offset current on all channels: <25fA

7. Input Resistance (Typical values for information)

	Zeroing (kOhm)	Measuring (kOhm)
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

Certificate No: DAE4-546_Aug16

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DAE4 Sn:720

Calibration Laboratory of
Softron & Partner
Engineering AG
Börschweg 10, 8500 Zurich, Switzerland

ISO 9001
ISO 17025

Recognized by the Swiss Accreditation Service (SAC)
Service review of Measurement
Service review of Measurement
Service review of Measurement

Accreditation No.: SAC 0118

Submitted by: SRTC (Vivo)

Calibration No.: DAE4-720_Su16

CALIBRATION CERTIFICATE

Item: DAE4 - 100 000 000 000 - 000 000

Customer procedure: QA CAL-08-V01
Calibration procedure for the data acquisition electronics (DAQ)

Calibration date: October 31, 2016

This calibration certificate documents the traceability to national standards, when made by physical units of measurement (SI).
The measurements and the associated uncertainty are given in the relevant pages and not part of the certificate.
All calibrations have been conducted in the stated laboratory facility, environmental conditions (20 ± 0.5 °C and humidity < 75%).
Calibration of equipment used (DAE4) is valid for calibration.

Primary Standard	SI	On Date (Certificate No.)	Structure Calibration
Accuracy Reference 1 (Jan 2017)	SI	On Date (Certificate No.)	Step 17
Secondary Standard	SI	On Date (Certificate No.)	Structure Calibration
Acc. DAE4 Calibration (Jan 2017)	SI	On Date (Certificate No.)	Step 17
Calibration (Jan 2017)	SI	On Date (Certificate No.)	Step 17

Calibrated by: Name: Christian Schuster, Position: Technician, Signature: [Signature]

Approved by: The Director, Deputy Technical Manager: F. Rindler

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

Certificate No: DAE4-720_Su16

Page 1 of 5

DAE4 Sn:720

Calibration Laboratory of
Schweitzer Engineering AG
Bühlstrasse 10, 8001 Zurich, Switzerland

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

Registration No.: SCS 0148

Summary

DAE: data acquisition electronics
Connector angle: information used in DAEY system to align probe sensor X to the input 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. GAE 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.

Certificate No: DAE4-700_00118

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DC Voltage Measurement

AD-Converter Resolution nominal
High Range: 15.85 mV 5 (uV) full range = -100...+100 mV
Low Range: 15.85 mV 500 (uV) full range = -1...+1000 mV
DAEY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	X	Y	Z
High Range	400.000 ± 0.001% (2σ)	404.780 ± 0.001% (2σ)	403.290 ± 0.001% (2σ)
Low Range	3.6000 ± 1.001% (2σ)	3.63407 ± 1.001% (2σ)	3.58800 ± 1.001% (2σ)

Connector Angle

Connector Angle to be used in DAEY system	33.0 ° ± 1 °
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Certificate No: DAE4-700_00118

Page 3 of 5

Appendix (Additional assessments outside the scope of SCS 0148)

1. DC Voltage Linearity

High Range	Reading (uV)	Difference (uV)	Error (%)
Channel X + Input	20000.00	-0.83	-0.00
Channel X + Input	20000.88	1.01	0.01
Channel X - Input	-20000.63	2.16	-0.01
Channel Y + Input	200001.40	-1.44	-0.00
Channel Y + Input	200003.48	-0.30	-0.00
Channel Y - Input	-200003.09	1.72	-0.01
Channel Z + Input	200000.88	-1.00	-0.00
Channel Z + Input	200001.08	-2.07	-0.01
Channel Z - Input	-200000.80	-4.08	-0.02
Low Range	Reading (uV)	Difference (uV)	Error (%)
Channel X + Input	18000.88	-0.88	-0.05
Channel X + Input	200.40	-0.40	-0.20
Channel X - Input	-198.48	-0.24	0.12
Channel Y + Input	20000.76	-0.01	-0.00
Channel Y + Input	200.08	-0.00	-0.00
Channel Y - Input	-198.00	-0.00	0.14
Channel Z + Input	20000.48	-0.20	-0.01
Channel Z + Input	106.41	-1.30	-0.88
Channel Z - Input	-100.21	-0.30	-0.40

2. Common mode sensitivity

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

Common mode Input Voltage (mV)	High Range Average Reading (uV)	Low Range Average Reading (uV)
Channel X		
200	-0.50	-0.72
-200	7.95	0.87
Channel Y		
200	15.89	16.83
-200	-16.82	-17.01
Channel Z		
200	-16.78	-18.08
-200	14.30	14.81

3. Channel separation

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

Input Voltage (mV)	Channel X (uV)	Channel Y (uV)	Channel Z (uV)
200	0.05	-0.00	0.77
200	8.74	-	-
200	8.38	7.87	-

Certificate No: DAE4-700_00118

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4. AD-Converter Values with inputs shorted

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

	High Range (LSB)	Low Range (LSB)
Channel X	18108	18021
Channel Y	18178	18038
Channel Z	18094	18174

5. Input Offset Measurement

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

Input (mV)	Average (uV)	min. Offset (uV)	max. Offset (uV)	Std. Deviation (uV)
Channel X	0.70	-1.16	0.77	0.60
Channel Y	0.00	-1.04	0.80	0.43
Channel Z	-0.18	-0.07	1.76	0.88

6. Input Offset Current

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

7. Input Resistance (Typical values for information)

	Zeroing (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	Radiated off (mW)	Heated by (mW)	Transmitted (mW)
Supply (+ Vcc)	18.00	<0	<14
Supply (- Vcc)	-0.00	-0	-0

Certificate No: DAE4-700_00118

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ES3DV3 Sn:3127

[illegible][illegible]

ES3DV3 - 2012.07

August 29, 2016

Probe ES3DV3

SN:3127

Manufactured: July 11, 2006
Calibrated: August 29, 2016

Calibrated for DASYLEASY Systems
(Make not compatible with DASIG systems)

Certificates No. ES3DV3-2012.07-001-001

ES3DV3-2012.07-001-001

DASY/EASY - Parameters of Probe: ES3DV3 - SN:3127							
Basic Calibration Parameters							
Sensor X	Sensor Y	Sensor Z	(Unc. [mV])				
Name: Isotonic ^{a)}	1.25	1.18	+/- 10.1 %				
TSP [cm]	50.7	183.7					
Modulation Calibration Parameters							
ID#	Calibration System Name	A dB	B dB/gk	C	G dB	VW v/v	Unc. [dB-1]
0	DSI	R	0.0	0.0	1.0	0.00	200.2 ± 0.3 %
		L	0.0	0.0	1.0		211.0
		T	0.0	0.0	-1.0		200.7

Note: For details on ID# 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%.

- ^{a)} The uncertainties of Noise S/N < 2 do not affect the E-field uncertainty (noise SD, Data Page 6) at all!
- * Numerical model-based uncertainty – uncertainty not measured!
- ^{b)} Uncertainty is determined using the raw deviation from linear response applying histogram distribution and is representative the shape of the fit residual.

ES3DV3 Sn:3127

ES3DV3-SN3127

August 28, 2018

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

Calibration Parameter Determined in Head Tissue Simulating Media

F/MHz ¹⁾	Relative Polarizability ²⁾	Conductivity ³⁾ (S/m)	Coeff. X	Coeff. Y	Coeff. Z	Apex ⁴⁾	Depth ⁵⁾ (mm)	Unc. (%)
600	45.5	0.07	8.74	8.74	8.74	0.21	2.30	±15.3%
700	41.8	0.88	8.58	8.58	8.58	0.92	1.37	±12.2%
800	61.5	5.97	8.38	8.38	8.38	3.54	1.41	±12.0%
1450	48.5	1.28	5.44	5.44	5.44	3.80	1.88	±12.0%
1810	38.0	1.45	5.15	5.15	5.15	0.80	1.18	±12.0%
2000	43.0	1.42	5.11	5.11	5.11	0.86	1.28	±12.0%
2380	39.6	1.67	4.83	4.83	4.83	0.80	1.19	±12.2%
2480	30.2	1.80	4.81	4.81	4.81	0.97	1.38	±12.2%
2800	39.8	1.86	4.40	4.40	4.40	0.78	1.38	±12.0%

¹⁾ Frequency validity above 300 MHz and 1.40 MHz only applied to DASY/EASY. A frequency below 300 MHz is not applicable. The uncertainty is the RSS of the Coeff. uncertainty at 1000 MHz and the uncertainty for the indicated frequency point. Frequency validity above 300 MHz is ±10%, ±5%, ±5% and 10% for 1000 MHz, 1500 MHz and 2000 MHz respectively. Above 2000 MHz frequency validity can be extended to 1.40 MHz.
²⁾ At frequencies below 500 MHz, the validity of tissue conductivity (σ) and μ (or the related to a 100% frequency response) is approximately 10% at 100 MHz. At frequencies above 500 MHz, the validity of tissue conductivity (σ) and μ is approximately ±5%. The uncertainty is the RSS of the Coeff. uncertainty for indicated target tissue parameters.
³⁾ Apertures are determined during calibration. 3D-ACT sensors that the sensitivity resolution due to the frequency effect after compensation is always less than ±1% for frequencies below 1000 MHz and ±5% for frequencies between 1000 MHz and 2000 MHz. For frequencies larger than 2000 MHz, the uncertainty is determined from the 3D-ACT sensors.

Certificate No. ES3DV3, Aug 18

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ES3DV3-SN3127

August 28, 2018

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

Calibration Parameter Determined in Body Tissue Simulating Media

F/MHz ¹⁾	Relative Polarizability ²⁾	Conductivity ³⁾ (S/m)	Coeff. X	Coeff. Y	Coeff. Z	Apex ⁴⁾	Depth ⁵⁾ (mm)	Unc. (%)
400	86.7	0.34	6.38	6.38	6.38	0.12	2.50	±13.3%
700	58.0	3.08	6.12	6.12	6.12	0.80	1.14	±12.2%
800	58.0	1.08	5.15	5.15	5.15	0.80	1.41	±12.0%
1450	58.0	1.30	5.28	5.28	5.28	0.74	1.21	±12.0%
1810	50.3	1.32	4.80	4.80	4.80	0.43	1.09	±12.2%
2000	60.4	1.81	4.82	4.82	4.82	0.58	1.48	±12.2%
2380	52.9	1.81	4.83	4.83	4.83	0.80	1.24	±12.2%
2480	52.7	1.88	4.38	4.38	4.38	0.71	1.22	±12.0%
2800	52.5	2.18	4.17	4.17	4.17	0.80	1.11	±12.0%

¹⁾ Frequency validity above 300 MHz and 1.40 MHz only applied to DASY/EASY. A frequency below 300 MHz is not applicable. The uncertainty is the RSS of the Coeff. uncertainty at 1000 MHz and the uncertainty for the indicated frequency point. Frequency validity above 300 MHz is ±10%, ±5%, ±5% and 10% for 1000 MHz, 1500 MHz and 2000 MHz respectively. Above 2000 MHz frequency validity can be extended to 1.40 MHz.
²⁾ At frequencies below 500 MHz, the validity of tissue parameters (σ and μ) or the related to a 100% frequency response) is approximately 10% at 100 MHz. At frequencies above 500 MHz, the validity of tissue parameters (σ and μ) is approximately ±5%. The uncertainty is the RSS of the Coeff. uncertainty for indicated target tissue parameters.
³⁾ Apertures are determined during calibration. 3D-ACT sensors that the sensitivity resolution due to the frequency effect after compensation is always less than ±1% for frequencies below 1000 MHz and ±5% for frequencies between 1000 MHz and 2000 MHz. For frequencies larger than 2000 MHz, the uncertainty is determined from the 3D-ACT sensors.

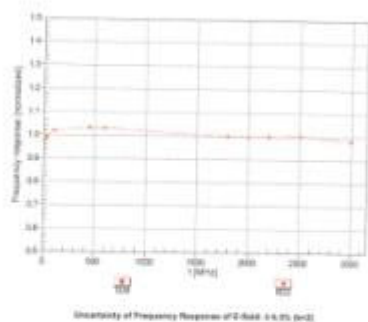
Certificate No. ES3DV3, Aug 18

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ES3DV3-SN3127

August 28, 2018

Frequency Response of E-Field (TEM-Cal: 8119 EX3, Waveguide: R22)



Uncertainty of Frequency Response of E-Field: ±4.8% (95%)

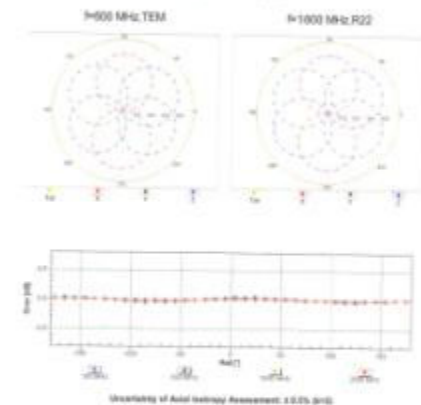
Certificate No. ES3DV3, Aug 18

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ES3DV3-SN3127

August 28, 2018

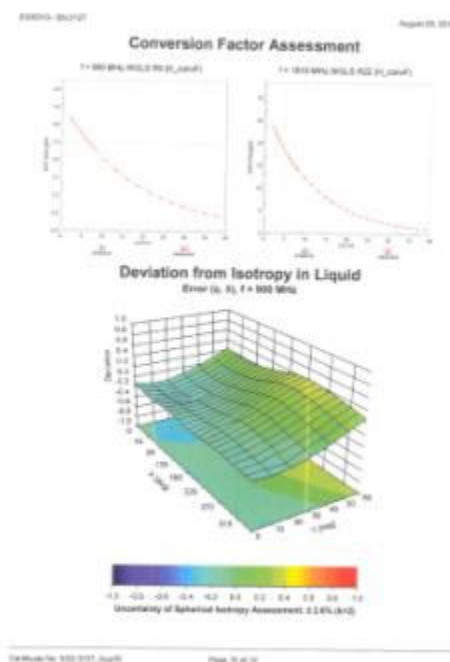
Receiving Pattern (θ), θ = 0°



Uncertainty of Antenna Receiving Pattern: ±0.5% (95%)

Certificate No. ES3DV3, Aug 18

Page 8 of 10



ES3DV3 - SN:3127		August 26, 2018
DASY/EASY - Parameters of Probe: ES3DV3 - SN:3127		
Other Probe Parameters		
Sensor Arrangement		Trumpf 3x
Connector Angle [°]		100.4
Mechanical Surface Detection Mode		0.00000
Optical Surface Detection Mode		0.00000
Probe Overall Length		327 mm
Probe Body Diameter		16 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		0 mm
Recommended Maximum Contact Distance from Surface		3 mm

8/28/2019, 09:52:27

August 28, 2019

Appendix: Modulation Calibration Parameters

DB	Comment/notes System Name	A dB	B dB/dB	C	D dB	A/B dB	100 ² (A+B)
0	CAC	X	0.0	0.0	1.0	0.00	199.1
		Y	0.0	0.0	1.0		199.1
		Z	0.0	0.0	1.0		202.7
100% GAB	100% 40% 100% 1.4 0.0 (200% 1.4 0.0)	X	0.08	71.4	20.2	1.01	195.8
		Y	0.78	87.1	17.8		193.0
100% CAB	100% 100% 100% 1.0 0.0 (200% 1.0 0.0)	X	0.15	79.6	19.7		196.3
		Y	0.43	87.7	19.1	0.88	197.0
100% GAC	100% 100% 100% 1.0 0.0 (200% 1.0 0.0)	Y	0.03	87.3	19.7		194.0
		Z	0.05	87.3	20.0		193.1
100% GAB	100% 100% 100% 1.0 0.0 (200% 1.0 0.0)	X	0.11	87.0	20.0	0.10	196.4
		Y	0.38	87.0	19.6		194.1
100% CAB	100% 100% 100% 1.0 0.0 (200% 1.0 0.0)	Z	0.02	87.0	19.7		193.0
100% GAC	100% 100% 100% 1.0 0.0 (200% 1.0 0.0)	X	0.13	87.3	19.8	0.76	193.0
		Y	0.78	87.3	19.8		193.5
		Z	0.04	87.1	19.8		193.0
100% CAB	100% 100% 100% 1.0 0.0 (200% 1.0 0.0)	X	0.01	88.0	19.9	0.73	193.0
		Y	0.06	88.0	19.7		193.3
100% GAB	100% 100% 100% 1.0 0.0 (200% 1.0 0.0)	Z	0.06	88.0	19.1		191.8
		X	0.01	88.0	19.3	0.73	192.2
100% GAC	100% 100% 100% 1.0 0.0 (200% 1.0 0.0)	Y	0.03	88.0	18.4		190.2
		Z	0.07	88.0	18.8		191.9
100% GAB	100% 100% 100% 1.0 0.0 (200% 1.0 0.0)	X	0.11	88.0	20.2	0.81	191.1
		Y	0.48	87.6	19.8		190.0
		Z	0.07	87.0	20.0		190.4

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EX3DV4 Sn:3708

Calibration Laboratory of
Science & Partner
Engineering AG
 Ringstrasse 14, 8044 Jona, Switzerland

Schweizerischer Fachverband
 Schweizerischer Fachverband
 Schweizerischer Fachverband
 Schweizerischer Fachverband

Accredited by: **SGS SIRE**

According to 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

Client: **BSTE (Viel)** Certificate No.: **EKG-2708_Nov18**

CALIBRATION CERTIFICATE

Object: **EXDIVE - SW 3788**

Calibration procedure(s): **GA CAL 01-19, GA CAL 14-19, GA CAL 23-19, GA CAL 25-19**
 Calibration procedure for diameters C-Axis probe

Calibration date: **November 15, 2018**

The calibration certificate documents the conformity of national standards, the calibration facility, the physical units and the measurement data.
 The measurement data of the uncertainties with confidence probability are given in the following table and are an integral part of the certificate.

All dimensions that have been measured in the listed laboratory facility, measurement temperatures (20 ± 0.2°C) and accuracy: ± 0.05 mm

Calibration Parameters with ISO/IEC 17025 (calibration):

Calibration Parameter	U	Calibration Certificate No.	Measurement Certificate
Probe length 700	0.000000	20-09-19-19-21 (DIN 8934)	Page 17
Probe length 500	0.000000	20-09-19-19-21 (DIN 8934)	Page 17
Probe length 250	0.000000	20-09-19-19-21 (DIN 8934)	Page 17
Probe length 125	0.000000	20-09-19-19-21 (DIN 8934)	Page 17
Probe length 62.5	0.000000	20-09-19-19-21 (DIN 8934)	Page 17
Probe length 31.25	0.000000	20-09-19-19-21 (DIN 8934)	Page 17
Probe length 15.625	0.000000	20-09-19-19-21 (DIN 8934)	Page 17
Probe length 7.8125	0.000000	20-09-19-19-21 (DIN 8934)	Page 17
Probe length 3.90625	0.000000	20-09-19-19-21 (DIN 8934)	Page 17
Probe length 1.953125	0.000000	20-09-19-19-21 (DIN 8934)	Page 17
Probe length 0.9765625	0.000000	20-09-19-19-21 (DIN 8934)	Page 17
Probe length 0.48828125	0.000000	20-09-19-19-21 (DIN 8934)	Page 17
Probe length 0.244140625	0.000000	20-09-19-19-21 (DIN 8934)	Page 17
Probe length 0.1220703125	0.000000	20-09-19-19-21 (DIN 8934)	Page 17
Probe length 0.06103515625	0.000000	20-09-19-19-21 (DIN 8934)	Page 17
Probe length 0.030517578125	0.000000	20-09-19-19-21 (DIN 8934)	Page 17
Probe length 0.0152587890625	0.000000	20-09-19-19-21 (DIN 8934)	Page 17
Probe length 0.00762939453125	0.000000	20-09-19-19-21 (DIN 8934)	Page 17
Probe length 0.003814697265625	0.000000	20-09-19-19-21 (DIN 8934)	Page 17
Probe length 0.0019073486328125	0.000000	20-09-19-19-21 (DIN 8934)	Page 17
Probe length 0.00095367431640625	0.000000	20-09-19-19-21 (DIN 8934)	Page 17
Probe length 0.000476837158203125	0.000000	20-09-19-19-21 (DIN 8934)	Page 17
Probe length 0.0002384185791015625	0.000000	20-09-19-19-21 (DIN 8934)	Page 17
Probe length 0.00011920928955078125	0.000000	20-09-19-19-21 (DIN 8934)	Page 17
Probe length 5.96e-05	0.000000	20-09-19-19-21 (DIN 8934)	Page 17
Probe length 2.98e-05	0.000000	20-09-19-19-21 (DIN 8934)	Page 17
Probe length 1.49e-05	0.000000	20-09-19-19-21 (DIN 8934)	Page 17
Probe length 7.45e-06	0.000000	20-09-19-19-21 (DIN 8934)	Page 17
Probe length 3.72e-06	0.000000	20-09-19-19-21 (DIN 8934)	Page 17
Probe length 1.86e-06	0.000000	20-09-19-19-21 (DIN 8934)	Page 17
Probe length 9.3e-07	0.000000	20-09-19-19-21 (DIN 8934)	Page 17
Probe length 4.65e-07	0.000000	20-09-19-19-21 (DIN 8934)	Page 17
Probe length 2.32e-07	0.000000	20-09-19-19-21 (DIN 8934)	Page 17
Probe length 1.16e-07	0.000000	20-09-19-19-21 (DIN 8934)	Page 17
Probe length 5.8e-08	0.000000	20-09-19-19-21 (DIN 8934)	Page 17
Probe length 2.9e-08	0.000000	20-09-19-19-21 (DIN 8934)	Page 17
Probe length 1.45e-08	0.000000	20-09-19-19-21 (DIN 8934)	Page 17
Probe length 7.25e-09	0.000000	20-09-19-19-21 (DIN 8934)	Page 17
Probe length 3.62e-09	0.000000	20-09-19-19-21 (DIN 8934)	Page 17
Probe length 1.81e-09	0.000000	20-09-19-19-21 (DIN 8934)	Page 17
Probe length 9.05e-10	0.000000	20-09-19-19-21 (DIN 8934)	Page 17
Probe length 4.52e-10	0.000000	20-09-19-19-21 (DIN 8934)	Page 17
Probe length 2.26e-10	0.000000	20-09-19-19-21 (DIN 8934)	Page 17
Probe length 1.13e-10	0.000000	20-09-19-19-21 (DIN 8934)	Page 17
Probe length 5.65e-11	0.000000	20-09-19-19-21 (DIN 8934)	Page 17

[illegible]

EX3DV4 - SN:3708

November 10, 2016

Probe EX3DV4

SN:3708

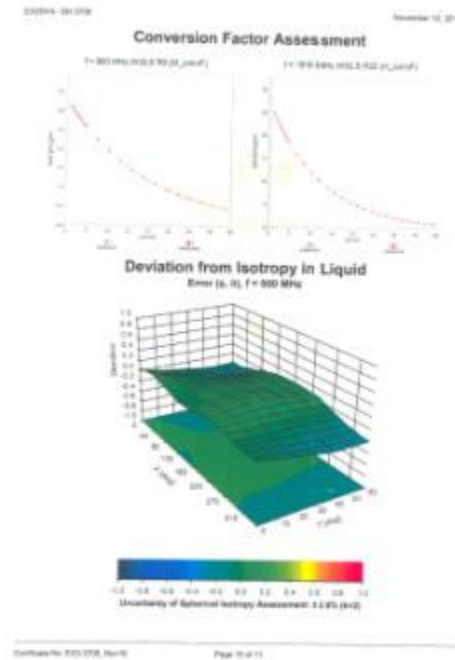
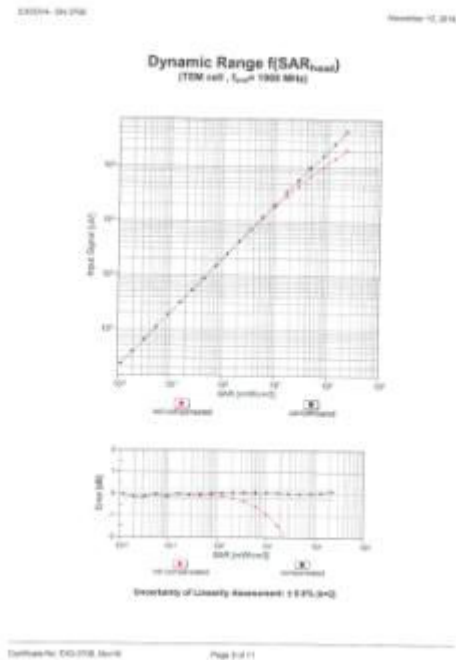
Manufactured: July 21, 2009
Calibrated: November 10, 2016

Calibrated for DASY/EASY Systems
(note: non-compatible with DAS12 systems)

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E8320A – 04-3708		November 10, 2014					
DASY/EASY - Parameters of Probe: EX3DV4 - SN:3708							
Basic Calibration Parameters							
	Series 0	Series 1	Series 2				
$\text{Norm}(u)/\text{Norm}(v)$ ¹	3.19	3.34	0.82				
NCP/amp^2	80.2	11.6	100.2				
Modulation Calibration Parameters							
Mod	Parameterization System Name	A	B	C	D	VR	VRM
01	DM	0	0.0	0.0	1.0	0.00	100.0 %
		0	0.0	0.0	1.0		140.7 %
		0	0.0	0.0	1.0		142.0 %
001-1	DMPT-F20 (200MHz)	0	0.0	0.0	1.0	0.00	100.0 %
		0	0.0	0.0	1.0		140.7 %
		0	0.0	0.0	1.0		142.0 %
002-1	DMPT-F20 (200MHz)	0	0.0	0.0	1.0	0.00	100.0 %
		0	0.0	0.0	1.0		140.7 %
		0	0.0	0.0	1.0		142.0 %
003-1	DMPT-F20 (200MHz)	0	0.0	0.0	1.0	0.00	100.0 %
		0	0.0	0.0	1.0		140.7 %
		0	0.0	0.0	1.0		142.0 %
004-1	DMPT-F20 (200MHz)	0	0.0	0.0	1.0	0.00	100.0 %
		0	0.0	0.0	1.0		140.7 %
		0	0.0	0.0	1.0		142.0 %
005-1	DMPT-F20 (200MHz)	0	0.0	0.0	1.0	0.00	100.0 %
		0	0.0	0.0	1.0		140.7 %
		0	0.0	0.0	1.0		142.0 %
006-1	DMPT-F20 (200MHz)	0	0.0	0.0	1.0	0.00	100.0 %
		0	0.0	0.0	1.0		140.7 %
		0	0.0	0.0	1.0		142.0 %
007-1	DMPT-F20 (200MHz)	0	0.0	0.0	1.0	0.00	100.0 %
		0	0.0	0.0	1.0		140.7 %
		0	0.0	0.0	1.0		142.0 %
008-1	DMPT-F20 (200MHz)	0	0.0	0.0	1.0	0.00	100.0 %
		0	0.0	0.0	1.0		140.7 %
		0	0.0	0.0	1.0		142.0 %
009-1	DMPT-F20 (200MHz)	0	0.0	0.0	1.0	0.00	100.0 %
		0	0.0	0.0	1.0		140.7 %
		0	0.0	0.0	1.0		142.0 %
010-1	DMPT-F20 (200MHz)	0	0.0	0.0	1.0	0.00	100.0 %
		0	0.0	0.0	1.0		140.7 %
		0	0.0	0.0	1.0		142.0 %
011-1	DMPT-F20 (200MHz)	0	0.0	0.0	1.0	0.00	100.0 %
		0	0.0	0.0	1.0		140.7 %
		0	0.0	0.0	1.0		142.0 %
012-1	DMPT-F20 (200MHz)	0	0.0	0.0	1.0	0.00	100.0 %
		0	0.0	0.0	1.0		140.7 %
		0	0.0	0.0	1.0		142.0 %
013-1	DMPT-F20 (200MHz)	0	0.0	0.0	1.0	0.00	100.0 %
		0	0.0	0.0	1.0		140.7 %
		0	0.0	0.0	1.0		142.0 %
014-1	DMPT-F20 (200MHz)	0	0.0	0.0	1.0	0.00	100.0 %
		0	0.0	0.0	1.0		140.7 %
		0	0.0	0.0	1.0		142.0 %
015-1	DMPT-F20 (200MHz)	0	0.0	0.0	1.0	0.00	100.0 %
		0	0.0	0.0	1.0		140.7 %
		0	0.0	0.0	1.0		142.0 %
016-1	DMPT-F20 (200MHz)	0	0.0	0.0	1.0	0.00	100.0 %
		0	0.0	0.0	1.0		140.7 %
		0	0.0	0.0	1.0		142.0 %
017-1	DMPT-F20 (200MHz)	0	0.0	0.0	1.0	0.00	100.0 %
		0	0.0	0.0	1.0		140.7 %
		0	0.0	0.0	1.0		142.0 %
018-1	DMPT-F20 (200MHz)	0	0.0				

EX3DV4 Sn:3708



EX3DV4 - SN:3708 November 10, 2016

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

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	-1.3
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	33.1 mm
Probe Body Diameter	10 mm
Tip Length	8 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

Certificate No: EX3-0708, Rev:0 Page 11 of 11

D750V3 Sn:1101

Calibration Laboratory of
Schmetz & Partner
Engineering AG
Bühlmannstr. 10, 8040 Zurich, Switzerland

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

Accreditation No.: SCS 0108

Client: SRTC (YH)

Certificate No.: D750V3-1101_0018

CALIBRATION CERTIFICATE

Item: D750V3 - SN 1101

Calibration procedure: G4-CAL-05 v9
Calibration procedure for dipole validation tests above 700 MHz

Calibration date: October 24, 2018

This calibration certificate documents the traceability to national standards, which include the SI base units of measurement. It is the responsibility of the client to ensure that the calibration certificate is used for the intended purpose and that the calibration certificate is not used for any other purpose.

All calibration tests were conducted in the clean laboratory facility environment (temperature 20 ± 0.5 °C, humidity < 50%).

Calibration equipment used (METS) used for calibration:

Primary Standards	SI Unit	Calibration Certificate No.	Expiry Date
Power meter NIST	W	95-10076	30-Apr-19 (to 2019-04-30)
Power sensor NIST	W	10084	30-Apr-19 (to 2019-04-30)
Power sensor NIST	W	10084	30-Apr-19 (to 2019-04-30)
Reference 50 Ω impedance	Ω	2008 2285	30-Apr-19 (to 2019-04-30)
Uncertainty evaluation	W	2007 21-0000	30-Apr-19 (to 2019-04-30)
Reference Power 100W	W	7344	15-Jul-19 (to 2019-07-15)
SWR	SWR	20-Dec-19 (to 2019-12-31)	Dec-19

Secondary Standards	SI Unit	Check Date in future	Expiry Date
Power meter NIST	W	2019-11-01 (to 2019-11-01)	2019-11-01
Power sensor NIST	W	2019-11-01 (to 2019-11-01)	2019-11-01
Power sensor NIST	W	2019-11-01 (to 2019-11-01)	2019-11-01
Reference 50 Ω impedance	Ω	2019-11-01 (to 2019-11-01)	2019-11-01
Uncertainty evaluation	W	2019-11-01 (to 2019-11-01)	2019-11-01
Reference Power 100W	W	2019-11-01 (to 2019-11-01)	2019-11-01
SWR	SWR	2019-11-01 (to 2019-11-01)	2019-11-01

Calibration by: T. Schmetz, T. Schmetz, T. Schmetz

Approved by: T. Schmetz, T. Schmetz, T. Schmetz

This calibration certificate shall be reproduced intact or in full within copies of the following:

Certificate No.: D750V3-1101_0018 Page 1 of 6

Calibration Laboratory of
Schmetz & Partner
Engineering AG
Bühlmannstr. 10, 8040 Zurich, Switzerland

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

Accreditation No.: SCS 0108

Client: SRTC (YH)

Certificate No.: D750V3-1101_0018

CALIBRATION CERTIFICATE

Item: D750V3 - SN 1101

Calibration procedure: G4-CAL-05 v9
Calibration procedure for dipole validation tests above 700 MHz

Calibration date: October 24, 2018

This calibration certificate documents the traceability to national standards, which include the SI base units of measurement. It is the responsibility of the client to ensure that the calibration certificate is used for the intended purpose and that the calibration certificate is not used for any other purpose.

All calibration tests were conducted in the clean laboratory facility environment (temperature 20 ± 0.5 °C, humidity < 50%).

Calibration equipment used (METS) used for calibration:

Primary Standards	SI Unit	Calibration Certificate No.	Expiry Date
Power meter NIST	W	95-10076	30-Apr-19 (to 2019-04-30)
Power sensor NIST	W	10084	30-Apr-19 (to 2019-04-30)
Power sensor NIST	W	10084	30-Apr-19 (to 2019-04-30)
Reference 50 Ω impedance	Ω	2008 2285	30-Apr-19 (to 2019-04-30)
Uncertainty evaluation	W	2007 21-0000	30-Apr-19 (to 2019-04-30)
Reference Power 100W	W	7344	15-Jul-19 (to 2019-07-15)
SWR	SWR	20-Dec-19 (to 2019-12-31)	Dec-19

Secondary Standards	SI Unit	Check Date in future	Expiry Date
Power meter NIST	W	2019-11-01 (to 2019-11-01)	2019-11-01
Power sensor NIST	W	2019-11-01 (to 2019-11-01)	2019-11-01
Power sensor NIST	W	2019-11-01 (to 2019-11-01)	2019-11-01
Reference 50 Ω impedance	Ω	2019-11-01 (to 2019-11-01)	2019-11-01
Uncertainty evaluation	W	2019-11-01 (to 2019-11-01)	2019-11-01
Reference Power 100W	W	2019-11-01 (to 2019-11-01)	2019-11-01
SWR	SWR	2019-11-01 (to 2019-11-01)	2019-11-01

Calibration by: T. Schmetz, T. Schmetz, T. Schmetz

Approved by: T. Schmetz, T. Schmetz, T. Schmetz

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Certificate No.: D750V3-1101_0018 Page 1 of 6

Measurement Conditions

DAZY system configuration, as per the report of the client

DAZY Version	DAZY Version	VIS 9.9
DAZY Version	DAZY Version	VIS 9.9

Phantom: Advanced Calibration
Module Flat Phantom

Distance Dipole Center - TSL: 10 mm
with spacer

Back Scan Resolution: 0.5 mm
0.5 mm

Frequency: 700 MHz ± 1 MHz

Head TSL parameters

The following parameters and calculations were applied:

Parameter	Temperature	Permittivity	Conductivity
Measured Head TSL parameters	20.0 °C	21.0	0.00 mS/m
Measured Head TSL parameters	20.0 ± 0.5 °C	21.1 ± 0.5 %	0.00 mS/m ± 0 %
Head TSL temperature change during test	± 0.5 °C	—	—

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	Result
SAR measured	200 mW input power	0.17 W/kg
SAR for normal Head TSL parameters	normalized to 1W	0.19 W/kg ± 10.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	Condition	Result
SAR measured	200 mW input power	1.36 W/kg
SAR for normal Head TSL parameters	normalized to 1W	0.28 W/kg ± 10.0 % (k=2)

Body TSL parameters

The following parameters and calculations were applied:

Parameter	Temperature	Permittivity	Conductivity
Measured Body TSL parameters	20.0 °C	22.0	0.00 mS/m
Measured Body TSL parameters	20.0 ± 0.5 °C	22.0 ± 0.5 %	0.00 mS/m ± 0 %
Body TSL temperature change during test	± 0.5 °C	—	—

SAR result with Body TSL

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	Result
SAR measured	200 mW input power	0.17 W/kg
SAR for normal Body TSL parameters	normalized to 1W	0.19 W/kg ± 10.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	Condition	Result
SAR measured	200 mW input power	1.36 W/kg
SAR for normal Body TSL parameters	normalized to 1W	0.28 W/kg ± 10.0 % (k=2)

Certificate No.: D750V3-1101_0018 Page 2 of 6

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Parameter	Result
Impedance, normalized to feed point	32.4 Ω ± 0.2 Ω
Return loss	13.8 dB

Antenna Parameters with Body TSL

Parameter	Result
Impedance, normalized to feed point	32.4 Ω ± 0.2 Ω
Return loss	13.8 dB

General Antenna Parameters and Design

Parameter	Result
Electrical Delay (one-direction)	1.000 ns

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

The dipole is made of stainless steel (AISI 304). 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 gaps are added to the dipole arms in order to improve matching when mounted according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The feedpoint 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

Manufacturer	Model
SPTAG	July 25, 2018

Certificate No.: D750V3-1101_0018 Page 3 of 6

D750V3 Sn:1101

DASY5 Validation Report for Head TSL

Date: 24.10.2016

Test Laboratory: SPISAG, Zurich, Switzerland

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

Communication System: UED-S - CW, Frequency: 750 MHz

Medium parameters used: $f = 750$ MHz, $n = 0.92$ Skin, $\epsilon_r = 41.2$, $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE802.6.602 C3.10-2011)

DASY5 Configuration:

- Probe: ESDP4 - B7148, CoreP(10.07, 10.07, 10.07), Calibrated: 11.06.2016
- Sensor Surface: 1 Area (Mechanical Surface Detection)
- Electronics: DAQ4 Soft1, Calibrated: 30.12.2015
- Phantom: Flat Phantom 4 HL, Type Q000P00A, Serial: 1001
- DASY52 52.8.8.1.250, SIMCAD X 14.6.10.7372

Dipole Calibration for Head Time/Freq=250 mW, d=15mm/Zero Scan (7x7x7)Cube B:

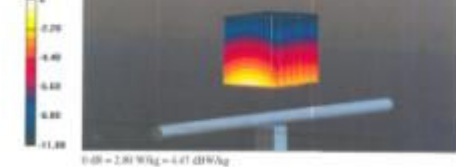
Measurement grid: d=15mm, d=15mm, d=15mm

Reference Value = 50.00 V/m, Power Dens = 0.00 dB

Peak SAR (integrated) = 3.14 W/kg

SAR(10 g) = 2.11 W/kg, SAR(100 g) = 1.28 W/kg

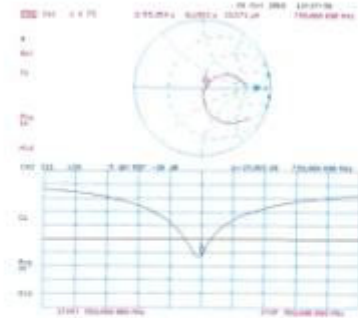
Maximum value of SAR (measured) = 2.50 W/kg



Certificate No: D750V3-101_2016

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Impedance Measurement Plot for Head TSL



Certificate No: D750V3-101_2016

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DASY5 Validation Report for Body TSL

Date: 24.10.2016

Test Laboratory: SPISAG, Zurich, Switzerland

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

Communication System: UED-S - CW, Frequency: 750 MHz

Medium parameters used: $f = 750$ MHz, $n = 0.92$ Skin, $\epsilon_r = 41.2$, $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE802.6.602 C3.10-2011)

DASY5 Configuration:

- Probe: ESDP4 - B7148, CoreP(10.07, 10.07, 10.07), Calibrated: 11.06.2016
- Sensor Surface: 1 Area (Mechanical Surface Detection)
- Electronics: DAQ4 Soft1, Calibrated: 30.12.2015
- Phantom: Flat Phantom 4 HL, Type Q000P00A, Serial: 1001
- DASY52 52.8.8.1.250, SIMCAD X 14.6.10.7372

Dipole Calibration for Body Time/Freq=250 mW, d=15mm/Zero Scan (7x7x7)Cube B:

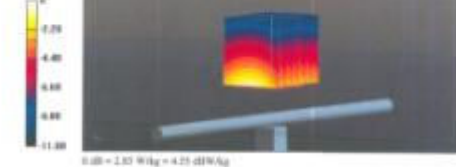
Measurement grid: d=15mm, d=15mm, d=15mm

Reference Value = 50.00 V/m, Power Dens = 0.00 dB

Peak SAR (integrated) = 3.14 W/kg

SAR(10 g) = 2.11 W/kg, SAR(100 g) = 1.28 W/kg

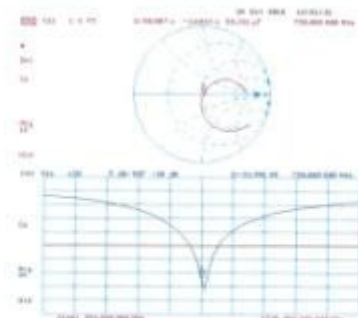
Maximum value of SAR (measured) = 2.50 W/kg



Certificate No: D750V3-101_2016

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Impedance Measurement Plot for Body TSL



Certificate No: D750V3-101_2016

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D835V2 Sn:4d023

Calibration Laboratory of
Schmid & Partner
Engineering AG
Zugstrasse 10, 8580 Zug, Switzerland

Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EU
Mutual Recognition Arrangement for the recognition of calibration certificates

Accreditation No. SCS 0108

Client: SRTC (PHE) Certificate No. D835V2-48023_04018

CALIBRATION CERTIFICATE

Item: D835V2 - 018-48023

Calibration procedure(s): QA-CAL-05.03
Calibration procedure for dipole calibration kits above 700 MHz

Calibration date: October 24, 2018

This calibration certificate documents the traceability to national standards, which assure the global unity of measurements. (2)
The measurement results and the compliance with calibration uncertainty are given in the following pages and are part of this certificate.

All calibrations have been conducted in the most laboratory facility, environmental temperature: 20 ± 0.1 °C and humidity: < 50%.

Calibration Equipment used: ALC10 used for calibration

Primary Standards	Cal	Exp. Date (if applicable)	Expiry Date
Power meter NIST 817	101-1017-10	01-Jan-18 (to 31-Dec-18)	Apr-17
Power meter NIST 817	101-1017-10	01-Jan-18 (to 31-Dec-18)	Apr-17
Power meter NIST 817	101-1017-10	01-Jan-18 (to 31-Dec-18)	Apr-17
Reference (10 dB) attenuator	101-1017-10	01-Jan-18 (to 31-Dec-18)	Apr-17
Light insulation calibration	101-1017-10	01-Jan-18 (to 31-Dec-18)	Apr-17
Reference Probe (SMA)	101-1017-10	01-Jan-18 (to 31-Dec-18)	Apr-17
Reference Probe (SMA)	101-1017-10	01-Jan-18 (to 31-Dec-18)	Apr-17

Secondary Standards	Cal	Exp. Date (if applicable)	Expiry Date
Power meter NIST 817	101-1017-10	01-Jan-18 (to 31-Dec-18)	Apr-17
Power meter NIST 817	101-1017-10	01-Jan-18 (to 31-Dec-18)	Apr-17
Power meter NIST 817	101-1017-10	01-Jan-18 (to 31-Dec-18)	Apr-17
Reference (10 dB) attenuator	101-1017-10	01-Jan-18 (to 31-Dec-18)	Apr-17
Light insulation calibration	101-1017-10	01-Jan-18 (to 31-Dec-18)	Apr-17
Reference Probe (SMA)	101-1017-10	01-Jan-18 (to 31-Dec-18)	Apr-17
Reference Probe (SMA)	101-1017-10	01-Jan-18 (to 31-Dec-18)	Apr-17

Calibration: SRTC (PHE) Calibration Technician: [Signature]

Approval: SRTC (PHE) Technical Manager: [Signature]

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

Certificate No. D835V2-48023_04018 Page 1 of 8

Calibration Laboratory of
Schmid & Partner
Engineering AG
Zugstrasse 10, 8580 Zug, Switzerland

Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EU
Mutual Recognition Arrangement for the recognition of calibration certificates

Accreditation No. SCS 0108

Client: SRTC (PHE) Certificate No. D835V2-48023_04018

CALIBRATION CERTIFICATE

Item: D835V2 - 018-48023

Calibration procedure(s): QA-CAL-05.03
Calibration procedure for dipole calibration kits above 700 MHz

Calibration date: October 24, 2018

This calibration certificate documents the traceability to national standards, which assure the global unity of measurements. (2)
The measurement results and the compliance with calibration uncertainty are given in the following pages and are part of this certificate.

All calibrations have been conducted in the most laboratory facility, environmental temperature: 20 ± 0.1 °C and humidity: < 50%.

Calibration Equipment used: ALC10 used for calibration

Primary Standards	Cal	Exp. Date (if applicable)	Expiry Date
Power meter NIST 817	101-1017-10	01-Jan-18 (to 31-Dec-18)	Apr-17
Power meter NIST 817	101-1017-10	01-Jan-18 (to 31-Dec-18)	Apr-17
Power meter NIST 817	101-1017-10	01-Jan-18 (to 31-Dec-18)	Apr-17
Reference (10 dB) attenuator	101-1017-10	01-Jan-18 (to 31-Dec-18)	Apr-17
Light insulation calibration	101-1017-10	01-Jan-18 (to 31-Dec-18)	Apr-17
Reference Probe (SMA)	101-1017-10	01-Jan-18 (to 31-Dec-18)	Apr-17
Reference Probe (SMA)	101-1017-10	01-Jan-18 (to 31-Dec-18)	Apr-17

Secondary Standards	Cal	Exp. Date (if applicable)	Expiry Date
Power meter NIST 817	101-1017-10	01-Jan-18 (to 31-Dec-18)	Apr-17
Power meter NIST 817	101-1017-10	01-Jan-18 (to 31-Dec-18)	Apr-17
Power meter NIST 817	101-1017-10	01-Jan-18 (to 31-Dec-18)	Apr-17
Reference (10 dB) attenuator	101-1017-10	01-Jan-18 (to 31-Dec-18)	Apr-17
Light insulation calibration	101-1017-10	01-Jan-18 (to 31-Dec-18)	Apr-17
Reference Probe (SMA)	101-1017-10	01-Jan-18 (to 31-Dec-18)	Apr-17
Reference Probe (SMA)	101-1017-10	01-Jan-18 (to 31-Dec-18)	Apr-17

Calibration: SRTC (PHE) Calibration Technician: [Signature]

Approval: SRTC (PHE) Technical Manager: [Signature]

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

Certificate No. D835V2-48023_04018 Page 2 of 8

Measurement Conditions

DASY system configuration as per the report in page 1.

DASY Version	DASY	Version
Extrapolation	Advanced Extrapolation	Version 1.0
Phantom	Modular Pig Phantom	with Spacer
Distance (Dipole Center - TSL)	15 cm	
Wave Scan Resolution	0.5, 0.5, 0.5 ± 0.001	
Frequency	800 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied:

Parameter	Temperature	Permittivity	Conductivity
Measured Head TSL parameters	20.0 °C	41.0	0.00 mS/m
Measured Head TSL parameters	20.0 ± 0.5 °C	40.0 ± 0.5	0.00 mS/m ± 0.0
Head TSL temperature change during test	+0.5 °C		

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	Result
SAR measured	200 mW input power	0.47 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	0.40 W/kg ± 17.0 % (Std)

SAR averaged over 10 cm ³ (10 g) of Head TSL	Condition	Result
SAR measured	200 mW input power	1.09 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	0.54 W/kg ± 16.5 % (Std)

Body TSL parameters

The following parameters and calculations were applied:

Parameter	Temperature	Permittivity	Conductivity
Measured Body TSL parameters	20.0 °C	40.0	0.07 mS/m
Measured Body TSL parameters	20.0 ± 0.5 °C	39.0 ± 0.5	0.00 mS/m ± 0.0
Body TSL temperature change during test	+0.5 °C		

SAR result with Body TSL

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	Result
SAR measured	200 mW input power	0.47 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	0.40 W/kg ± 17.0 % (Std)

SAR averaged over 10 cm ³ (10 g) of Body TSL	Condition	Result
SAR measured	200 mW input power	1.09 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	0.54 W/kg ± 16.5 % (Std)

Certificate No. D835V2-48023_04018 Page 3 of 8

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Parameter	Result
Impedance, transformed to feed point	53.4 Ω ± 1.9 Ω
Return Loss	-28.4 dB

Antenna Parameters with Body TSL

Parameter	Result
Impedance, transformed to feed point	40.3 Ω ± 5.1 Ω
Return Loss	-25.9 dB

General Antenna Parameters and Design

Parameter	Result
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 standard serrated coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited by DC signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as indicated in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The small dipole length is still according to the standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufacturer by	Result
Manufacturer on	December 17, 2014

Certificate No. D835V2-48023_04018 Page 4 of 8

D835V2 Sn:4d023

DASY5 Validation Report for Head TSL

Date: 24.10.2018

Test Laboratory: SP/AG, Zurich, Switzerland

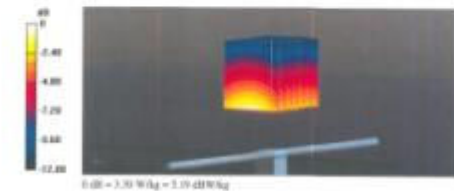
DUT: Dipole 835 MHz, Type D835V2, Serial: D835V2 - SN:4d023

Communication System: UED 8 - CW, Frequency: 835 MHz
Medium parameters: $\epsilon = 0.05$ MHz, $\alpha = 0.05$ MHz, $\beta = 0.05$ MHz
Phantom antenna: Flat Surface
Measurement Standard: DASY5 (IEEE/IEC/ANSI C39.19-2011)

DASY5 Configuration:

- Probe: EXD1V4 - 807549, Coord: 9.72, 9.72, 9.72; Calibration: 12.06.2018
- Sensor Surface: 1 Area (Mechanical Surface Detection)
- Electronics: DAE4 SetB1, Calibration: 30.12.2015
- Phantom Flat Phantom: 4 M, Type: QD000P05A, Serial: 1001
- DASY52 52.8x1208, SEMCAD X 14.6.100372

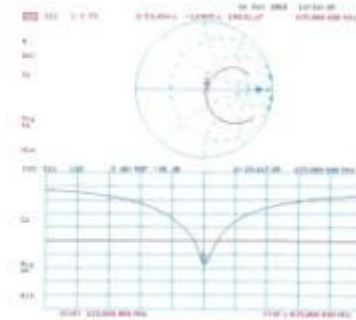
Dipole Calibration for Head TSL: $P_{in}=250$ mW, $d=15$ mm/Zoom Scan (7x7x7)/Cube 8:
Measurement gain: d_{ref} (mm), d_{ref} (mm), d_{ref} (mm)
Reference Value = 61.72 V/m, Power Dref = 0.07 dB
Peak SAR (extrapolated) = 3.72 W/kg
SAR(1g) = 3.47 W/kg; SAR(10g) = 1.09 W/kg
Maximum value of SAR (measured) = 3.30 W/kg



Certificate No: 080000-48003_00116

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Impedance Measurement Plot for Head TSL



Certificate No: 080000-48003_00116

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DASY5 Validation Report for Body TSL

Date: 24.10.2018

Test Laboratory: SP/AG, Zurich, Switzerland

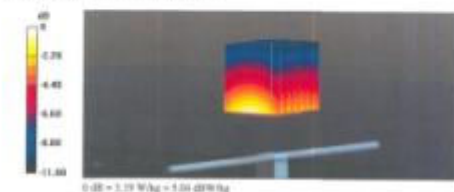
DUT: Dipole 835 MHz, Type D835V2, Serial: D835V2 - SN:4d023

Communication System: UED 8 - CW, Frequency: 835 MHz
Medium parameters: $\epsilon = 0.05$ MHz, $\alpha = 0.05$ MHz, $\beta = 0.05$ MHz
Phantom antenna: Flat Surface
Measurement Standard: DASY5 (IEEE/IEC/ANSI C39.19-2011)

DASY5 Configuration:

- Probe: EXD1V4 - 807549, Coord: 9.72, 9.72, 9.72; Calibration: 12.06.2018
- Sensor Surface: 1 Area (Mechanical Surface Detection)
- Electronics: DAE4 SetB1, Calibration: 30.12.2015
- Phantom Flat Phantom: 4 M, Type: QD000P05A, Serial: 1001
- DASY52 52.8x1208, SEMCAD X 14.6.100372

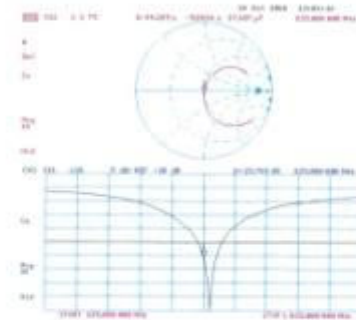
Dipole Calibration for Body TSL: $P_{in}=250$ mW, $d=15$ mm/Zoom Scan (7x7x7)/Cube 8:
Measurement gain: d_{ref} (mm), d_{ref} (mm), d_{ref} (mm)
Reference Value = 61.72 V/m, Power Dref = 0.07 dB
Peak SAR (extrapolated) = 3.72 W/kg
SAR(1g) = 3.44 W/kg; SAR(10g) = 1.0 W/kg
Maximum value of SAR (measured) = 3.30 W/kg



Certificate No: 080000-48003_00116

Page 7 of 6

Impedance Measurement Plot for Body TSL



Certificate No: 080000-48003_00116

Page 8 of 6

D1900V2 Sn:5d113

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Calibration Laboratory of Schmalz + Partner Engineering AG Implemenzstrasse 18, 8000 Olten, Switzerland			Membership Relationships Service center of Measurement Institute experts in various fields Calibration Service
Accredited by the Swiss Accreditation Service (SAS)			Accreditation No.: SCS 0108
The Swiss Accreditation Service is an independent organization to the Swiss Confederation responsible for the recognition of calibration institutions			
Summary:			
TSL	Insert circulating board		
Cantef	sensitivity in TSL, 1 MCMF 5 p.p.t.		
N/A	not applicable or not measured		
Calibration is Performed According to the Following Standards:			
a) IEC61131-1:2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013			
b) IEC 62209-1, "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			
c) 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 3 GHz)", March 2010			
d) IEC61558-6, "SAR Measurement Requirements for 100 MHz to 6 GHz"			
Additional Documentation:			
e) DASY6/S System Hardware			
Methods Applied and Interpretation of Parameters:			
a) 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.			
b) Antenna Parameters: The dipole is mounted with the upper tip position in feed point exactly below the center marking of the flat phase section, with the arms oriented parallel to the body axis.			
c) Feed Point Impedance and Return Loss: These parameters are measured with the dipole positioned in the standard feed point. The impedance is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.			
d) Electrical Delay: One-way delay between the SMA connector and the antenna feed point. No uncertainty required.			
e) SAR measured: SAR measured at the stated antenna input power.			
f) SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.			
g) SAR to 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%.			

Measurement Conditions		
DAC911 system configuration as per secret given on page 1		
DAC911 Version	DAC911S	V03.0.0
Extrapolation	Advanced Extrapolation	
Phenomenon	Modular Flat Phenomenon	
Distance (Spoke Center - TSL)	18.0mm	with Spoke
Zoom Scan Resolution	5k, 2k, 1k @ 5.75mm	
Frequency	1000 Hz $\pm$ 1 Hz	

Head TSL parameters		
The following conditions and calculations were applied:		
Measured Head TSL parameters	Temperature	Permittivity
Measured Head TSL parameters	23.0 °C	58.0
Measured Head TSL parameters	22.0 $\pm$ 0.5 °C	49.0 $\pm$ 6 %
Head TSL temperature change during test	$< 0.5 ^\circ\text{C}$	1.38 (noise $\pm$ 6 %)

Appendix (Additional assessments outside the scope of SCS (1)(8))

Antenna Parameters with Head TSL

Impedance, transformed to feed point	$51 \pm 2 + j 3.2$
Return Loss	$> 20 \text{ dB}$

Antenna Parameters with Body TSL

Impedance, transformed to feed point	$61 \pm 10 + j 7.2$
Return Loss	$> 17 \text{ dB}$

General Antenna Parameters and Design

Electrical Delay (one-direction)	1.00 ns
----------------------------------	---------

SAR result with Head TSL			
SAR averaged over 1 cm ² (1 g) of Head TSL	Condition		
SAR measured	200 mW input power		15.1 W/kg
SAR for normal Head TSL parameters	normalized to IS0		46.7 W/kg ± 17.2 % (n=5)
SAR averaged over 10 cm ² (10 g) of Head TSL			
SAR measured	200 mW input power		5.36 W/kg
SAR for normal Head TSL parameters	normalized to IEC		31.3 W/kg ± 14.2 % (n=2)

Body TSL parameters

The following parameters and calculations have applied.

	Temperature	Permittivity	Conductivity
Measured Body TSL parameters	39.0 °C	59.9	1.32 mS/m
Measured Body TSL parameters	(32.8 ± 6.8) °C	(59.2 ± 6 %) %	1.48 mS/m ± 6 %
Body TSL temperature change during test	± 0.8 °C		

The device is made of standard-weighted stainless-steel. This center conductor of the heating line is directly connected to the second arm of the dipole. The antenna is therefore also connected by DC voltage. On some of the dipoles, small metal caps are added to the dipole arms in order to improve matching when installed according to the problem as explained in the "Maintenance Guidelines" paragraph. This SART does not affect its fire ratings. The overall dipole weight is still according to the Standard.

No pressure limit must be applied to the dipole arm, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SYRAC
Manufactured on	July 04, 2008

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	200 W/kg input power normalized to 1 W	6.80 W/kg
SAR for nominal Body TSL parameters		20.8 W/kg ± 17.6 % (n=2)
SAR averaged over 10 cm ³ (10 g) of Body TSL	Condition	
SAR measured	200 W/kg input power normalized to 1 W	5.23 W/kg
SAR for nominal Body TSL parameters		25.1 W/kg ± 16.5 % (n=2)

D1900V2 Sn:5d113

DASY Validation Report for Head TSL

Date: 31.10.2016

Test Laboratory: SPAG, Zurich, Switzerland

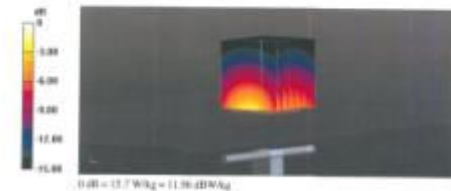
DEUT: Dipole 1900 MHz; Type: D1900V2; Serial: SN:5d113

Communication System: UTD 0 - LW; Frequency: 1900 MHz
Medium parameters used: $f = 1900 \text{ MHz}$, $\mu = 1.59 \text{ km/s}$, $\epsilon = 40.6$, $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (DIE/DIC/AND) C63.19.2011

DASY52 Configuration:

- Probe: EXDPA - SN7549; Core/P7-95; T-95; T-95; Calibration: 15.06.2016
- Sensor Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DMS 140H; Calibration: 30.12.2015
- Phantom: Flat Phantom 5.0 (front); Type: QD00P50AA; Serial: 0001
- DASY52: 02.8.6/120; SEMCAD X 14.6.10/7312

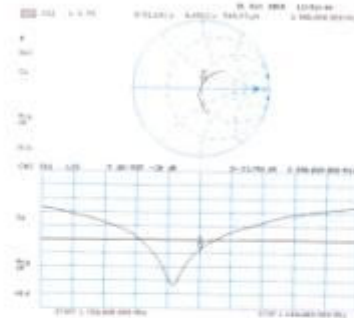
Dipole Calibration for Head Tissue/Pho=250 mW, d=14mm/Zoom Scan (7x7x7x7) Cube R:
Measurement grid: d=14mm, d=14mm, d=14mm
Reference Value = 106.4 Vm; Power DdB = 0.00 dB
Peak SAR (comparative) = 19.3 W/kg
SAR(1g) = 10.3 W/kg; SAR(10g) = 5.3 W/kg
Maximum value of SAR (measured) = 15.7 W/kg



Certificate No: 0190002-00113_C0010

Page 4 of 8

Impedance Measurement Plot for Head TSL



Certificate No: 0190002-00113_C0010

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DASY Validation Report for Body TSL

Date: 31.10.2016

Test Laboratory: SPAG, Zurich, Switzerland

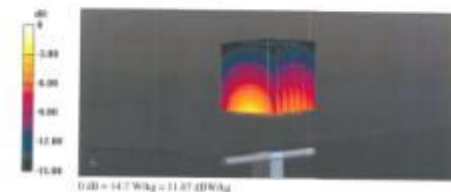
DEUT: Dipole 1900 MHz; Type: D1900V2; Serial: SN:5d113

Communication System: UTD 0 - LW; Frequency: 1900 MHz
Medium parameters used: $f = 1900 \text{ MHz}$, $\mu = 1.44 \text{ km/s}$, $\epsilon = 53.2$, $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (DIE/DIC/AND) C63.19.2011

DASY52 Configuration:

- Probe: EXDPA - SN7549; Core/P7-95; T-95; T-95; Calibration: 15.06.2016
- Sensor Surface: 5.4mm (Mechanical Surface Detection)
- Electronics: DMS 140H; Calibration: 30.12.2015
- Phantom: Flat Phantom 5.0 (back); Type: QD00P50AA; Serial: 0002
- DASY52: 02.8.6/120; SEMCAD X 14.6.10/7312

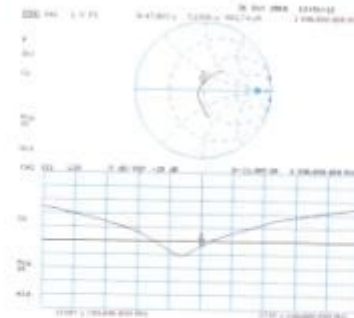
Dipole Calibration for Body Tissue/Pho=250 mW, d=14mm/Zoom Scan (7x7x7x7) Cube R:
Measurement grid: d=14mm, d=14mm, d=14mm
Reference Value = 106.5 Vm; Power DdB = 0.00 dB
Peak SAR (comparative) = 17.3 W/kg
SAR(1g) = 9.8 W/kg; SAR(10g) = 5.23 W/kg
Maximum value of SAR (measured) = 14.7 W/kg



Certificate No: 0190002-00113_C0010

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Impedance Measurement Plot for Body TSL



Certificate No: 0190002-00113_C0010

Page 8 of 8

D2450V2 S_n:738[illegible]

Calibration Laboratory of Schmid & Partner Engineering AG Englerstrasse 10, 8904 Guntl, Switzerland			Schweizerische Eidgenossenschaft Confédération suisse Confederaziun Svizra Confederaziun Svizra
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			Accreditation No.: SGS 0186
Classify: TSL: _____ Conf#: _____ N/A: _____			
Issue: _____ Issue simulating lead _____ validity in TSL / NORFF y.y.r. _____ N/A: _____			
Calibration is Performed According to the Following Standards:			
(a) IEEE Std 1581-2013, "IEEE Recommended Practice for Determining the Peak Spectral-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices, Measurement Techniques", June 2013 (b) 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 (c) 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 3 GHz)", March 2010 (d) ROE 060566, "SAR Measurement Requirements for 100 MHz to 6 GHz"			
Additional Documentation: (a) DASYLab 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 Positioning with TSL: The dipole is mounted with the spacer in between its feet just exactly below the center marking of the fat 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 standard 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 distal antenna input power. • SAR normalised: 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%.			

Measurement Conditions			
SARF system: 100Watt, 200Watt, 300Watt (see on page 1)			
DMRT Version	DMRT5		VSD 8.8
Extrapolation	Advanced Extrapolation		
Phantom	Modular Flat Phantom		
Distance Spoke Center - TSL	30 mm		with Spoke
Zoom Spoke Resolution	30, 20, 20, 0 mm		
Frequency	0450 MHz ± 100K		

Head TSL parameters			
The following parameters and regulations were applied:			
Normal Head TSL parameters	Temperature	Permeability	Conductivity
SAR measured	33.0 °C	70%	1.80 mS/cm
Measured Head TSL parameters	02.0 ± 0.5 °C	58.7 ± 5 %	1.07 mS/cm ± 8 %
Head TSL temperature change during test	< 0.5 °C	—	—

SAR result with Head TSL			
SAR averaged over 1 cm ² (1 g) of Head TSL	Condition		
SAR measured	250 mW input power		13.1 W/kg
SAR for normal Head TSL parameters	normalized to 1W		51.2 W/kg ± 17.3 % (Std)

SAR result with Head TSL			
SAR averaged over 10 cm ² (10 g) of Head TSL	Condition		
SAR measured	200 mW input power		6.07 W/kg
SAR for normal Head TSL parameters	normalized to 1W		23.9 W/kg ± 16.3 % (Std)

Body TSL parameters			
The following parameters and regulations were applied:			
Headed Body TSL parameters	Temperature	Permeability	Conductivity
SAR measured	33.0 °C	52 %	1.80 mS/cm
Measured Body TSL parameters	02.5 ± 0.5 °C	51.3 ± 5 %	0.90 mS/cm ± 8 %
Body TSL temperature change during test	< 0.5 °C	—	—

SAR result with Body TSL			
SAR averaged over 1 cm ² (1 g) of Body TSL	Condition		
SAR measured	250 mW input power		13.0 W/kg
SAR for normal Body TSL parameters	normalized to 1W		50.8 W/kg ± 17.0 % (Std)

SAR result with Body TSL			
SAR averaged over 10 cm ² (10 g) of Body TSL	Condition		
SAR measured	200 mW input power		6.88 W/kg
SAR for normal Body TSL parameters	normalized to 1W		24.0 W/kg ± 16.3 % (Std)

Appendix (Additional assessments outside the scope of SCS 0106)

Antenna Parameters with Head TBL

Impedance, transformed to feed point	$70.4 \pm 0.7 \pm j 2.1$
Return loss	$> 20 \text{ dB}$

Antenna Parameters with Body TBL

Impedance, transformed to feed point	$40.7 \pm 1 \pm j 8.6$
Return loss	$> 10 \text{ dB}$

General Antenna Parameters and Design

Exciter Delay (one direction)	1.197 ns
-------------------------------	----------

After long run use with 100W solid-state power, only a slight warming of the dipole (top the feedpoint) can be measured.

The dipole is made of standard weight copper cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC signals. On some of the dipoles, small capacitors are added to the dipole arms in order to improve matching when tested according to the position as explained in the "Measurement Considerations" paragraph. The SMT size are not affected by this change. The overall dipole length is still according to the standard.

No extension frame must be applied to the dipole arms, because they might bend in the additional connections near the feedpoint which may be damaged.

Additional EUT Data

Manufactured by	OPTAS
Manufactured on	August 06, 2006

Cartridge No. 00404001704_004100 Page 4 of 8

D2450V2 Sn:738

DASY5 Validation Report for Head TSL

Date: 25.10.2016

Test Laboratory: SPAG, Zurich, Switzerland

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

Communication System: UED 0 - CW, Frequency: 2450 MHz

Medium parameters used: $f = 2450 \text{ MHz}$, $\sigma = 1.87 \text{ S/m}$, $\epsilon = 38.2$, $\rho = 1000 \text{ kg/m}^3$

Phantom used: Flat Surface

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.29-2011)

DASY5 Configuration:

- Probe: EXCEP4 - BNT500, CaseP(7.75, 7.75), Calibrated: 15.06.2016,
- Sensor Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAES Sub01, Calibrated: 30.12.2015
- Phantom: Flat Phantom 1.0 (back), Type: QD000P50AA, Serial: 1001
- DASY5: 52.8.8(128), SEMCAD X 14.8.10(7372)

Dipole Calibration for Head Tissue/ $\rho = 230 \text{ mW}$, $d = 10 \text{ mm}$ /Z-axis Scan (7x7x7)/Cube B:

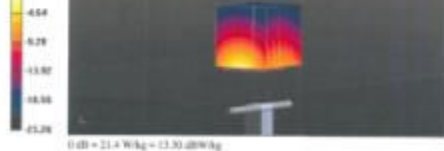
Measurement grid: $d_x = 5 \text{ mm}$, $d_y = 5 \text{ mm}$, $d_z = 5 \text{ mm}$

Reference Value: $\approx 111.7 \text{ V/m}$, Power Dens: ≈ 0.0040

Peak SAR (interpolated): $\approx 26.4 \text{ W/kg}$

SAR(1 g): $\approx 13.5 \text{ W/kg}$; SAR(10 g): $\approx 6.87 \text{ W/kg}$

Minimum value of SAR (measured): $\approx 21.4 \text{ W/kg}$

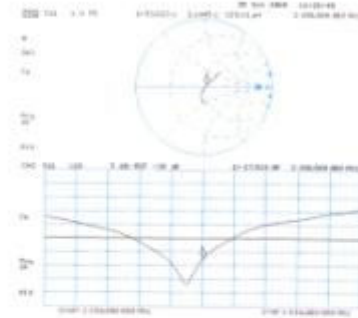


0 dB = 21.4 W/kg = 13.30 dBW/kg

Certificate No.: D2450V2-FM_04016

Page 5 of 8

Impedance Measurement Plot for Head TSL



Certificate No.: D2450V2-FM_04016

Page 6 of 8

DASY5 Validation Report for Body TSL

Date: 25.10.2016

Test Laboratory: SPAG, Zurich, Switzerland

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

Communication System: UED 0 - CW, Frequency: 2450 MHz

Medium parameters used: $f = 2450 \text{ MHz}$, $\sigma = 1.70 \text{ S/m}$, $\epsilon = 51.3$, $\rho = 1000 \text{ kg/m}^3$

Phantom used: Flat Surface

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.29-2011)

DASY5 Configuration:

- Probe: EXCEP4 - BNT500, CaseP(7.75, 7.75, 7.75), Calibrated: 15.06.2016,
- Sensor Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAES Sub01, Calibrated: 30.12.2015
- Phantom: Flat Phantom 1.0 (back), Type: QD000P50AA, Serial: 1001
- DASY5: 52.8.8(128), SEMCAD X 14.8.10(7372)

Dipole Calibration for Body Tissue/ $\rho = 230 \text{ mW}$, $d = 10 \text{ mm}$ /Z-axis Scan (7x7x7)/Cube B:

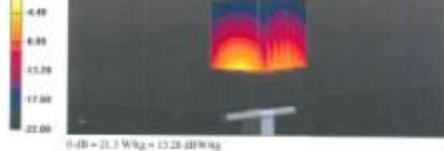
Measurement grid: $d_x = 5 \text{ mm}$, $d_y = 5 \text{ mm}$, $d_z = 5 \text{ mm}$

Reference Value: $\approx 107.3 \text{ V/m}$, Power Dens: ≈ 0.0040

Peak SAR (interpolated): $\approx 26.0 \text{ W/kg}$

SAR(1 g): $\approx 13.3 \text{ W/kg}$; SAR(10 g): $\approx 6.66 \text{ W/kg}$

Minimum value of SAR (measured): $\approx 21.3 \text{ W/kg}$

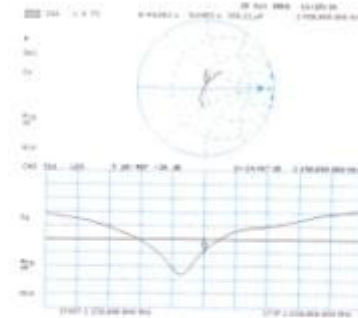


0 dB = 21.3 W/kg = 13.28 dBW/kg

Certificate No.: D2450V2-FM_04016

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Impedance Measurement Plot for Body TSL



Certificate No.: D2450V2-FM_04016

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D2600V2 S_n:1089[illegible]

Cultivation Laboratory at S&P & Partner Engineering AG		 Knowledge for tomorrow from today's future C Quality processes of people B Best customer service
Dipl.-Ing. habil. Dr. rer. oec. Dr. rer. nat. Dr. rer. med. Dipl.-Ing. habil. Dr. rer. oec. Dr. rer. nat. Dr. rer. med.		Akademie für... GSC 1108
certified by the Swiss Association for ISO 9001 The German Association, applies to one of the departments in the R&D Multimediale Abteilung für die Fertigung von optischen Bauteilen		
Glossary:		
TSL	Issue stimulating liquid	
ConcF	sensitivity in TSL = 10000 Hz/L	
SNA	not applicable or not measured	
Calibration is Performed According to the Following Standards:		
a) IEC 61219-1:2015, "IEC Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques," June 2015		
b) 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 2006		
c) 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 300 MHz to 3 GHz]," March 2015		
d) KDG 865464, "SAR Measurement Requirements for 100 MHz to 3 GHz"		
Additional Documentation:		
e) DAS/FAS System Handbook		
Methods Applied and Interpretation of Parameters:		
a) Measurement Conducted: 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.		
b) Antenna Parameters with TSL: The dipole is mounted with the spacer in position to lead current mostly below the contact markings of the platform socket, with the arms oriented parallel to the body axis.		
c) Feed Point Impedance and Return Loss: These parameters are measured with the dipole positioned under the liquid filled phantom. This impedance is transformed from the measurement of the SWR connected to the feed point. The Return Loss indicates low reflected power. No uncertainty required.		
d) Electrical Delay: One-way delay between the SWR connector and the antenna feed point. No uncertainty required.		
e) SAR evaluation: SAR measurement of the static antenna head position.		
f) SAR evaluation: SAR measurement, normalized to maximum power of 1 W at the designated frequency.		
g) SAR correction: All parameters. The measured TSL parameters are used to calculate the nominal SAR result.		

[illegible]

Appendix: Additional Assessments outside the scope of SCS 01001

Antenna Parameters with Head TSL

Impedance, input point to input point	44.5 (1 - 8 GHz)
Return Loss	> 20 dB

Antenna Parameters with Body TSL

Impedance, input point to input point	45.0 (1 - 8 GHz)
Return Loss	> 20 dB

General Antenna Parameters and Design

Electrical Delay case direction	1.140 ns
---------------------------------	----------

After long term use with 100W output power, only a slight warming of the device case the topdeck can be measured.

The module is made of standard springloaded contact pads. The center conductors of the feeding line is directly connected to the second arm of the dipole. The antenna is flexible when excited by 220 signals. On some of the flexible, semi-rigid pads are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Minimum System Configuration" subchapter. The SMD case are cut through by this design. The overall dipole length is still according to the standard.

No expensive tools must be applied to the dipole as it is made as they might harm the extremely sensitive state the device could be damaged.

Additional EUT Data

Manufactured by	OPTECH
Manufactured on	March 18, 2014

Copyright © 2014 by SCS 01001, 01002, 01003, 01004, 01005, 01006, 01007, 01008, 01009, 01010, 01011, 01012, 01013, 01014, 01015, 01016, 01017, 01018, 01019, 01020, 01021, 01022, 01023, 01024, 01025, 01026, 01027, 01028, 01029, 01030, 01031, 01032, 01033, 01034, 01035, 01036, 01037, 01038, 01039, 01040, 01041, 01042, 01043, 01044, 01045, 01046, 01047, 01048, 01049, 01050, 01051, 01052, 01053, 01054, 01055, 01056, 01057, 01058, 01059, 01060, 01061, 01062, 01063, 01064, 01065, 01066, 01067, 01068, 01069, 01070, 01071, 01072, 01073, 01074, 01075, 01076, 01077, 01078, 01079, 01080, 01081, 01082, 01083, 01084, 01085, 01086, 01087, 01088, 01089, 01090, 01091, 01092, 01093, 01094, 01095, 01096, 01097, 01098, 01099, 01100, 01101, 01102, 01103, 01104, 01105, 01106, 01107, 01108, 01109, 01110, 01111, 01112, 01113, 01114, 01115, 01116, 01117, 01118, 01119, 01120, 01121, 01122, 01123, 01124, 01125, 01126, 01127, 01128, 01129, 01130, 01131, 01132, 01133, 01134, 01135, 01136, 01137, 01138, 01139, 01140, 01141, 01142, 01143, 01144, 01145, 01146, 01147, 01148, 01149, 01150, 01151, 01152, 01153, 01154, 01155, 01156, 01157, 01158, 01159, 01160, 01161, 01162, 01163, 01164, 01165, 01166, 01167, 01168, 01169, 01170, 01171, 01172, 01173, 01174, 01175, 01176, 01177, 01178, 01179, 01180, 01181, 01182, 01183, 01184, 01185, 01186, 01187, 01188, 01189, 01190, 01191, 01192, 01193, 01194, 01195, 01196, 01197, 01198, 01199, 01200, 01201, 01202, 01203, 01204, 01205, 01206, 01207, 01208, 01209, 01210, 01211, 01212, 01213, 01214, 01215, 01216, 01217, 01218, 01219, 01220, 01221, 01222, 01223, 01224, 01225, 01226, 01227, 01228, 01229, 01230, 01231, 01232, 01233, 01234, 01235, 01236, 01237, 01238, 01239, 01240, 01241, 01242, 01243, 01244, 01245, 01246, 01247, 01248, 01249, 01250, 01251, 01252, 01253, 01254, 01255, 01256, 01257, 01258, 01259, 01260, 01261, 01262, 01263, 01264, 01265, 01266, 01267, 01268, 01269, 01270, 01271, 01272, 01273, 01274, 01275, 01276, 01277, 01278, 01279, 01280, 01281, 01282, 01283, 01284, 01285, 01286, 01287, 01288, 01289, 01290, 01291, 01292, 01293, 01294, 01295, 01296, 01297, 01298, 01299, 01300, 01301, 01302, 01303, 01304, 01305, 01306, 01307, 01308, 01309, 01310, 01311, 01312, 01313, 01314, 01315, 01316, 01317, 01318, 01319, 01320, 01321, 01322, 01323, 01324, 01325, 01326, 01327, 01328, 01329, 01330, 01331, 01332, 01333, 01334, 01335, 01336, 01337, 01338, 01339, 01340, 01341, 01342, 01343, 01344, 01345, 01346, 01347, 01348, 01349, 01350, 01351, 01352, 01353, 01354, 01355, 01356, 01357, 01358, 01359, 01360, 01361, 01362, 01363, 01364, 01365, 01366, 01367, 01368, 01369, 01370, 01371, 01372, 01373, 01374, 01375, 01376, 01377, 01378, 01379, 01380, 01381, 01382, 01383, 01384, 01385, 01386, 01387, 01388, 01389, 01390, 01391, 01392, 01393, 01394, 01395, 01396, 01397, 01398, 01399, 01400, 01401, 01402, 01403, 01404, 01405, 01406, 01407, 01408, 01409, 01410, 01411, 01412, 01413, 01414, 01415, 01416, 01417, 01418, 01419, 01420, 01421, 01422, 01423, 01424, 01425, 01426, 01427, 01428, 01429, 01430, 01431, 01432, 01433, 01434, 01435, 01436, 01437, 01438, 01439, 01440, 01441, 01442, 01443, 01444, 01445, 01446, 01447, 01448, 01449, 01450, 01451, 01452, 01453, 01454, 01455, 01456, 01457, 01458, 01459, 01460, 01461, 01462, 01463, 01464, 01465, 01466, 01467, 01468, 01469, 01470, 01471, 01472, 01473, 01474, 01475, 01476, 01477, 01478, 01479, 01480, 01481, 01482, 01483, 01484, 01485, 01486, 01487, 01488, 01489, 01490, 01491, 01492, 01493, 01494, 01495, 01496, 01497, 01498, 01499, 01500, 01501, 01502, 01503, 01504, 01505, 01506, 01507, 01508, 01

D2600V2 Sn:1089

DASY5 Validation Report for Head TSL

Date: 11/27/2015

Test Laboratory: SRTC, Radio_Monitoring_Center

DUT: Dipole 20W MHz; Type: D2600V2; Serial: D2600V2-SN:1089

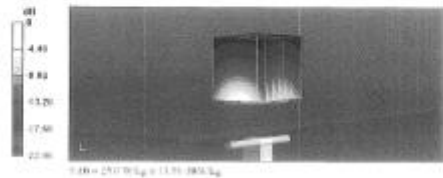
Communication System: TD-SCDMA; Frequency: 2000 MHz
Medium parameters used: $f = 2000 \text{ MHz}$, $m = 2.42 \text{ dB}$, $\alpha = 0.1 \text{ dB}$, $\rho = 0.001 \text{ kg/m}^3$
Phantom used: Flat Phantom

Measurement Standard: DASY5 (IEEE1910.1-2011)

DASY5 Configuration:

- Probe: E5310A; 507540; Coax: P7.56; 7.56; 7.56; Calibration: 11/06/2015
- Antenna Surface: 1 Area (Median Surface Detection)
- Electronic: DA84 8460; Calibrated: 30.12.2015
- Phantom: Flat Phantom 5.0 (Area); Type: Q000P50AA; Serial: 100
- DASY52 12.0.0 (256); SRMCAD 3.14.6.0 (7772)

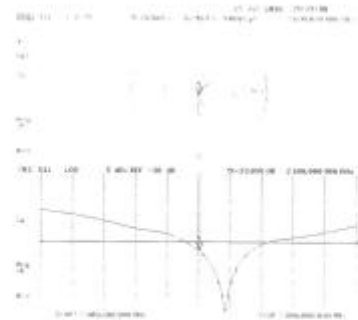
Dipole Calibration for Head Tissue/Plane 250 mW, d=10mm/Zoom Scan (7x7x7) Cube B:
Measurement grid: d=10mm, d=10mm, d=10mm
Reference Value: 117.2 V/m; Power D00 = 0.01 dB
Peak SAR (measured) = 11.2 W/kg
SAR(1 g) = 14.8 W/kg; SAR(10 g) = 6.46 W/kg
Maximum value of SAR (measured) = 20.1 W/kg



Calibration file: 11/06/2015_11/06_11/06

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Impedance Measurement Plot for Head TSL



Calibration file: 11/06/2015_11/06_11/06

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DASY5 Validation Report for Body TSL

Date: 10/27/2015

Test Laboratory: SRTC, Radio_Monitoring_Center

DUT: Dipole 20W MHz; Type: D2600V2; Serial: D2600V2-SN:1089

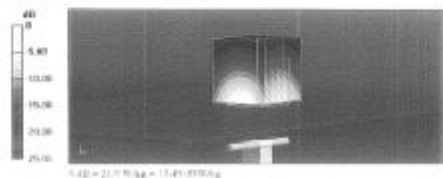
Communication System: TD-SCDMA; Frequency: 2000 MHz
Medium parameters used: $f = 2000 \text{ MHz}$, $m = 2.42 \text{ dB}$, $\alpha = 0.1 \text{ dB}$, $\rho = 1000 \text{ kg/m}^3$
Phantom used: Flat Phantom

Measurement Standard: DASY5 (IEEE1910.1-2011)

DASY5 Configuration:

- Probe: E5310A; 507540; Coax: P7.45; 7.45; 7.45; Calibration: 11/06/2015
- Antenna Surface: 1 Area (Median Surface Detection)
- Electronic: DA84 8460; Calibrated: 30.12.2015
- Phantom: Flat Phantom 5.0 (Area); Type: Q000P50AA; Serial: 100
- DASY52 12.0.0 (256); SRMCAD 3.14.6.0 (7772)

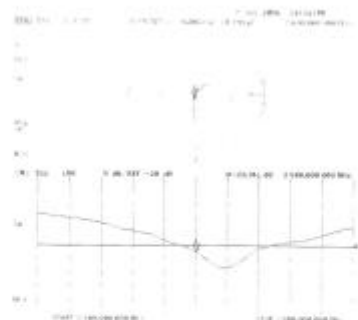
Dipole Calibration for Body Tissue/Plane 250 mW, d=10mm/Zoom Scan (7x7x7) Cube B:
Measurement grid: d=10mm, d=10mm, d=10mm
Reference Value: 109.3 V/m; Power D00 = 0.07 dB
Peak SAR (measured) = 27.8 W/kg
SAR(1 g) = 15.6 W/kg; SAR(10 g) = 6.96 W/kg
Maximum value of SAR (measured) = 21.9 W/kg



Calibration file: 11/06/2015_11/06_11/06

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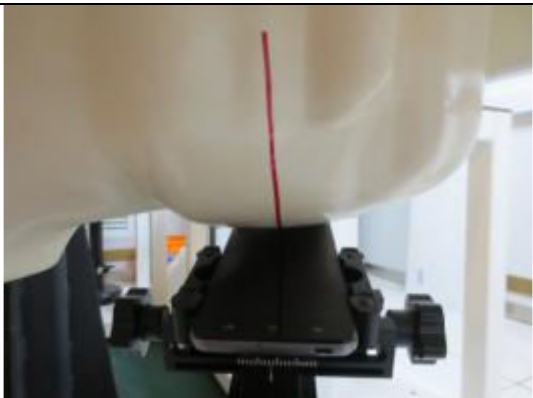
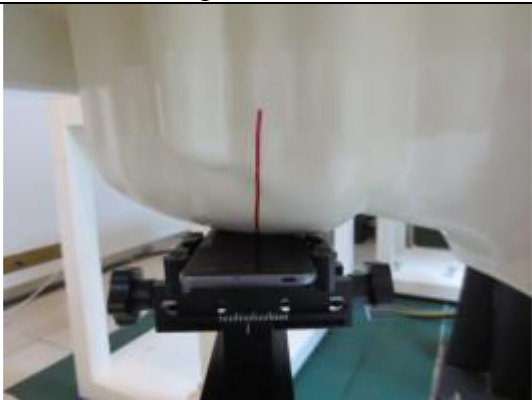
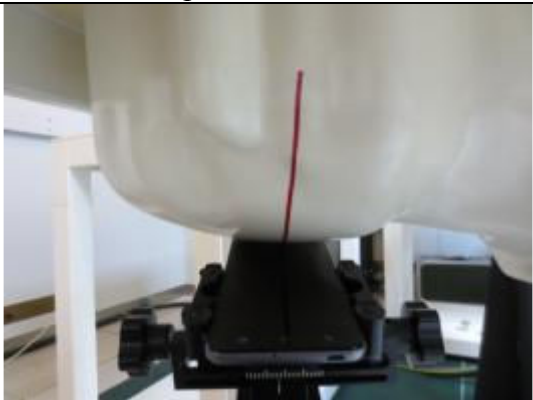
Impedance Measurement Plot for Body TSL

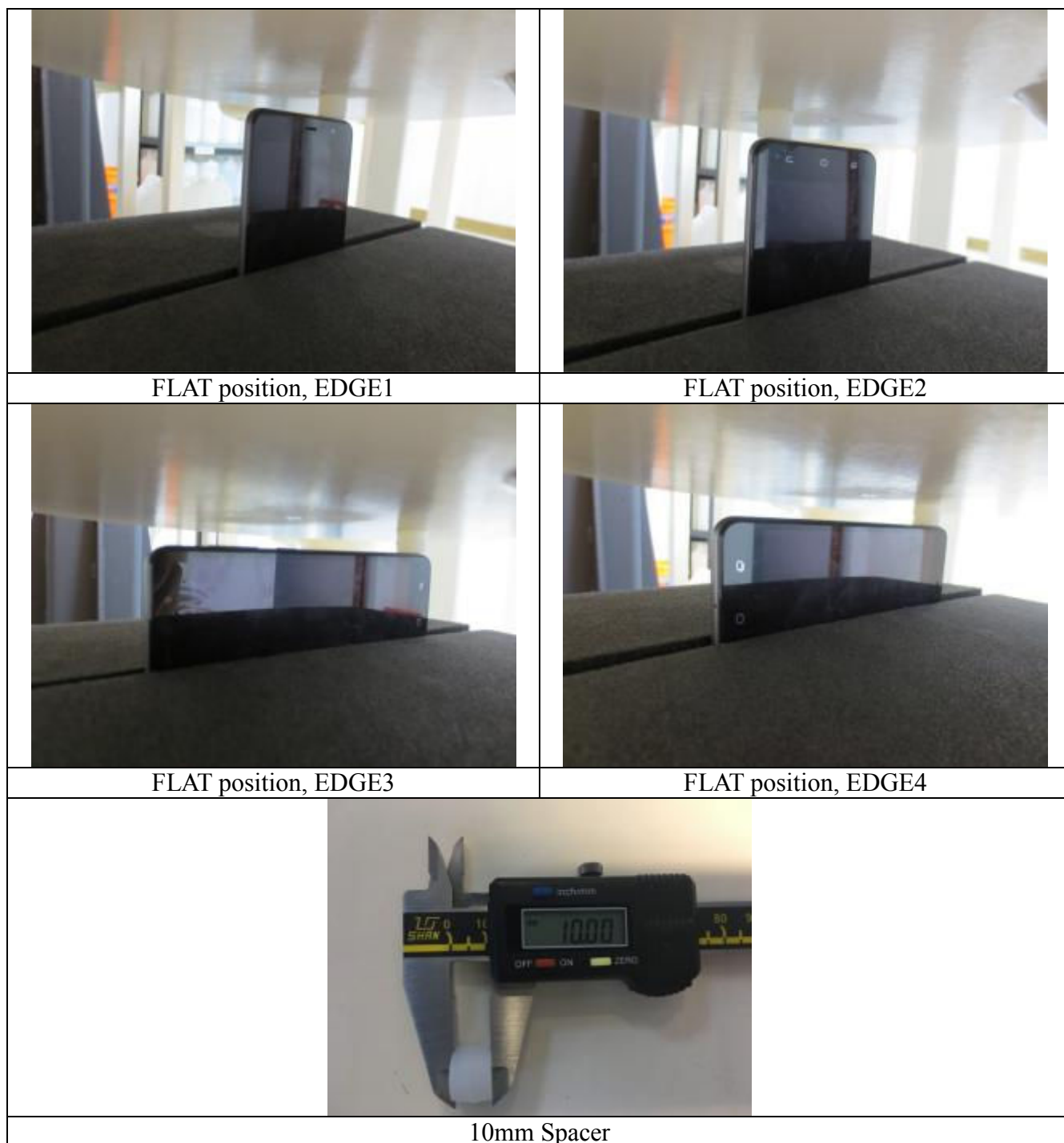


Calibration file: 11/06/2015_11/06_11/06

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ANNEX C – PHOTOGRAPH

	
Cheek position, left side	Tilt position, left side
	
Cheek position, Right side	Tilt position, Right side
	
FLAT position, Towards phantom	FLAT position, Towards ground



---End of Test Report---