APPENDIX B PLOTS OF THE SAR MEASUREMENTS

Plots of the measured SAR distributions inside the phantom are given in this Appendix for all tested configurations.

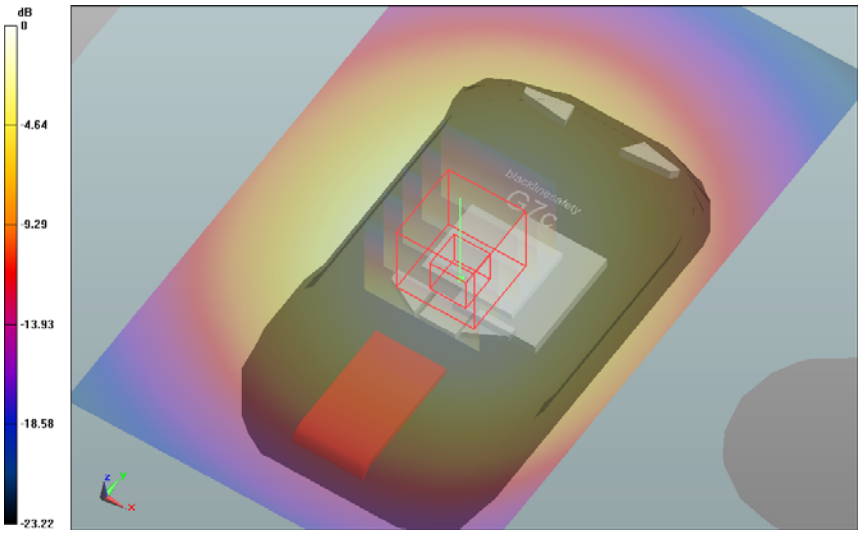
Test Lab: EMCTech Test File: M170217 Head 850 MHz 3G FCC.da52:0

DUT Name: Blackline Safety GSM-3G Transmitter, Type: HMN: G7C, Serial: 3566000154

Configuration: Face Frontal 10mm Spacing Standard Cartridge 10-03-17
Communication System: 0 - WCDMA - UMTS; Communication System Band: Band 5 850 MHz; Frequency: 826.4 MHz, Communication System PAR: 0.00 dB; PMF: 1.00; Duty Cycle: 1:1.00
Medium Parameters used: f=826.5 MHz; σ = 0.90 S/m; ε_r = 42.7; ρ = 1000.0g/cm^3
Phantom section: Flat Section

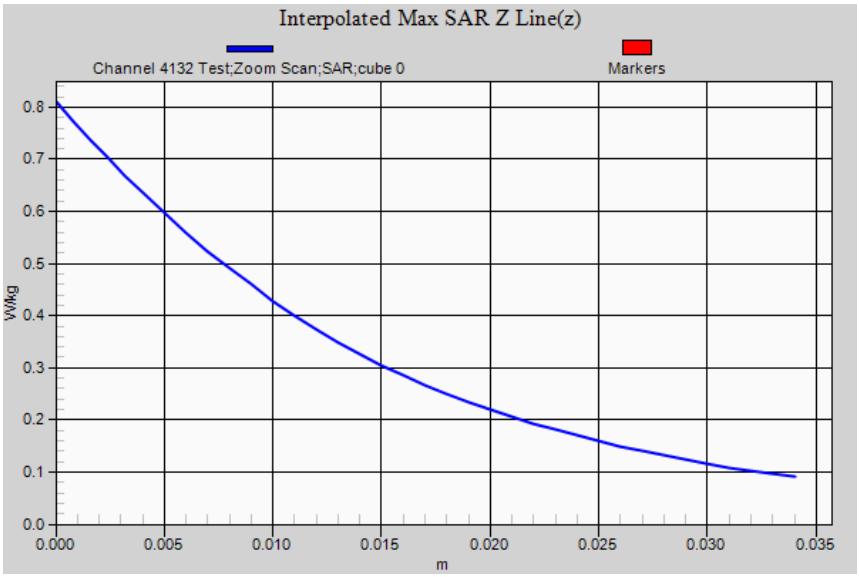
DASY Configuration:
Probe: ET3DV6 - SN1380; ConvF: (6.26,6.26,6.26); Calibrated: 8/12/2016;
Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE3 Sn442; Calibrated: 6/12/2016
Phantom: SAM 12; Type: SAM 12; Serial: 1060
DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

Face Frontal 10mm Spacing Standard Cartridge 10-03-17/Channel 4132 Test/Area Scan (71x121x1):
Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.670 W/kg
Face Frontal 10mm Spacing Standard Cartridge 10-03-17/Channel 4132 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 28.443 V/m; **Power Drift = -0.02 dB**
Averaged SAR: SAR(1g) = 0.623 W/kg; SAR(10g) = 0.449 W/kg
Maximum value of SAR (interpolated) = 0.810 W/kg



0 dB = 0.670 W/kg = -1.74 dBW/kg

SAR Measurement Plot 1



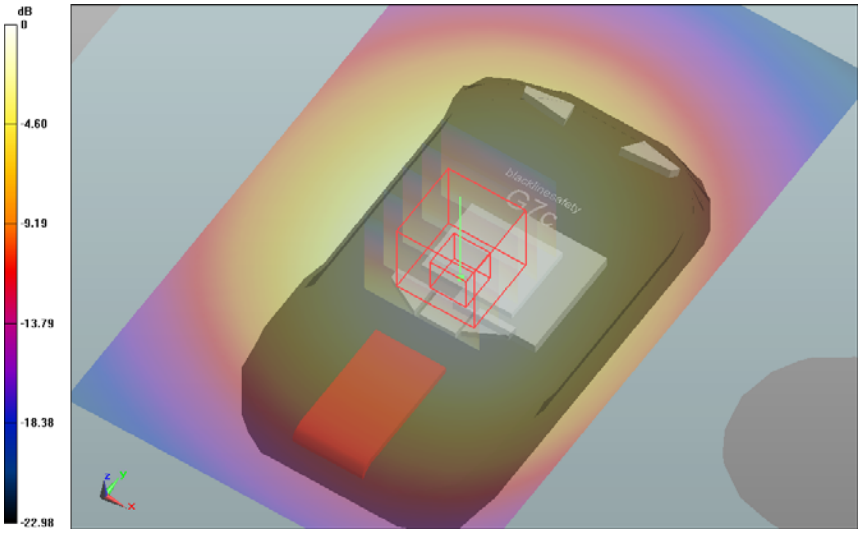
Test Lab: EMCTech Test File: M170217 Head 850 MHz 3G FCC.da52:0

DUT Name: Blackline Safety GSM-3G Transmitter, Type: HMN: G7C, Serial: 3566000154

Configuration: Face Frontal 10mm Spacing Standard Cartridge 10-03-17
Communication System: 0 - WCDMA - UMTS; Communication System Band: Band 5 850 MHz; Frequency: 836.6 MHz, Communication System PAR: 0.00 dB; PMF: 1.00; Duty Cycle: 1:1.00
Medium Parameters used: f=836.5 MHz; σ = 0.91 S/m; ε_r = 42.6; ρ = 1000.0g/cm^3
Phantom section: Flat Section

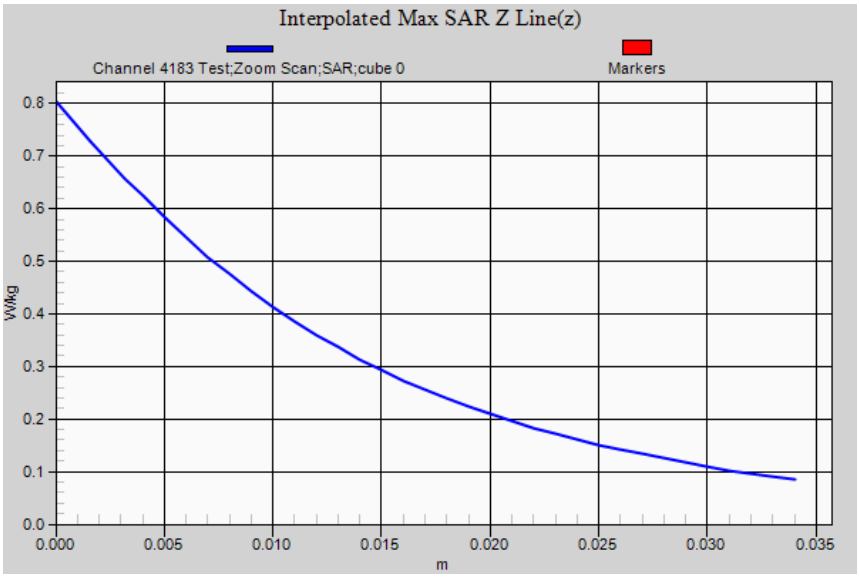
DASY Configuration:
Probe: ET3DV6 - SN1380; ConvF: (6.26,6.26,6.26); Calibrated: 8/12/2016;
Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE3 Sn442; Calibrated: 6/12/2016
Phantom: SAM 12; Type: SAM 12; Serial: 1060
DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

Face Frontal 10mm Spacing Standard Cartridge 10-03-17/Channel 4183 Test/Area Scan (71x121x1):
Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.655 W/kg
Face Frontal 10mm Spacing Standard Cartridge 10-03-17/Channel 4183 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 27.860 V/m; **Power Drift = -0.02 dB**
Averaged SAR: SAR(1g) = 0.609 W/kg; SAR(10g) = 0.438 W/kg
Maximum value of SAR (interpolated) = 0.803 W/kg



0 dB = 0.655 W/kg = -1.84 dBW/kg

SAR Measurement Plot 2



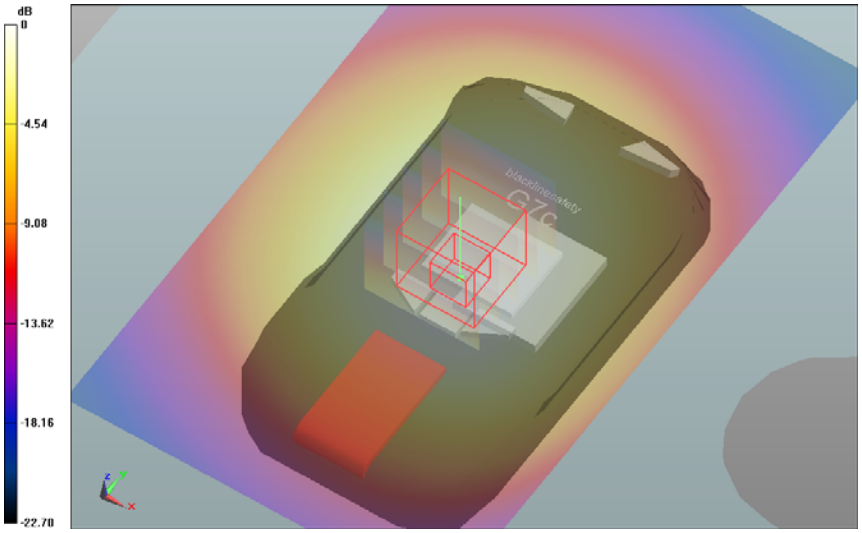
Test Lab: EMCTech Test File: M170217 Head 850 MHz 3G FCC.da52:0

DUT Name: Blackline Safety GSM-3G Transmitter, Type: HMN: G7C, Serial: 3566000154

Configuration: Face Frontal 10mm Spacing Standard Cartridge 10-03-17
Communication System: 0 - WCDMA - UMTS; Communication System Band: Band 5 850 MHz; Frequency: 846.6 MHz, Communication System PAR: 0.00 dB; PMF: 1.00; Duty Cycle: 1:1.00
Medium Parameters used: f=846.5 MHz; σ = 0.92 S/m; ε_r = 42.4; ρ = 1000.0g/cm^3
Phantom section: Flat Section

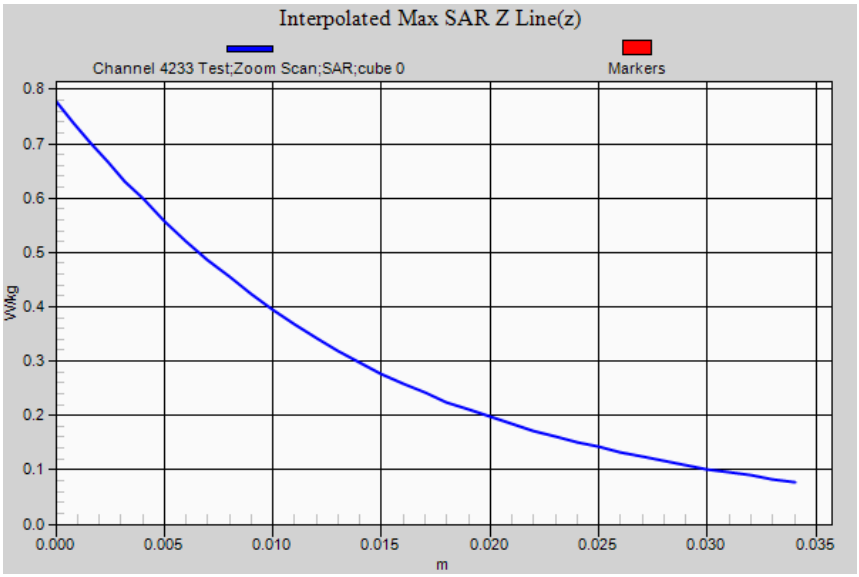
DASY Configuration:
Probe: ET3DV6 - SN1380; ConvF: (6.26,6.26,6.26); Calibrated: 8/12/2016;
Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE3 Sn442; Calibrated: 6/12/2016
Phantom: SAM 12; Type: SAM 12; Serial: 1060
DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

Face Frontal 10mm Spacing Standard Cartridge 10-03-17/Channel 4233 Test/Area Scan (71x121x1):
Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.630 W/kg
Face Frontal 10mm Spacing Standard Cartridge 10-03-17/Channel 4233 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 27.410 V/m; **Power Drift = 0.00 dB**
Averaged SAR: SAR(1g) = 0.588 W/kg; SAR(10g) = 0.422 W/kg
Maximum value of SAR (interpolated) = 0.777 W/kg



0 dB = 0.630 W/kg = -2.01 dBW/kg

SAR Measurement Plot 3



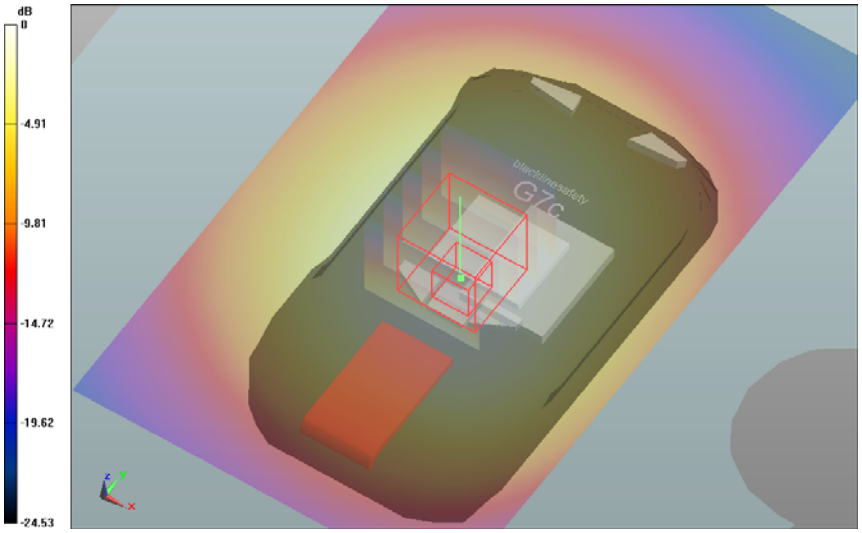
Test Lab: EMCTech Test File: M170217 Head 850 MHz 3G FCC.da52:1

DUT Name: Blackline Safety GSM-3G Transmitter, Type: HMN: G7C, Serial: 3566000154

Configuration: Face Frontal 10mm Spacing Standard Cartridge Variability 10-03-17
Communication System: 0 - WCDMA - UMTS; Communication System Band: Band 5 850 MHz; Frequency: 836.6 MHz, Communication System PAR: 0.00 dB; PMF: 1.00; Duty Cycle: 1:1.00
Medium Parameters used: f=836.5 MHz; σ = 0.91 S/m; ε_r = 42.6; ρ = 1000.0g/cm^3
Phantom section: Flat Section

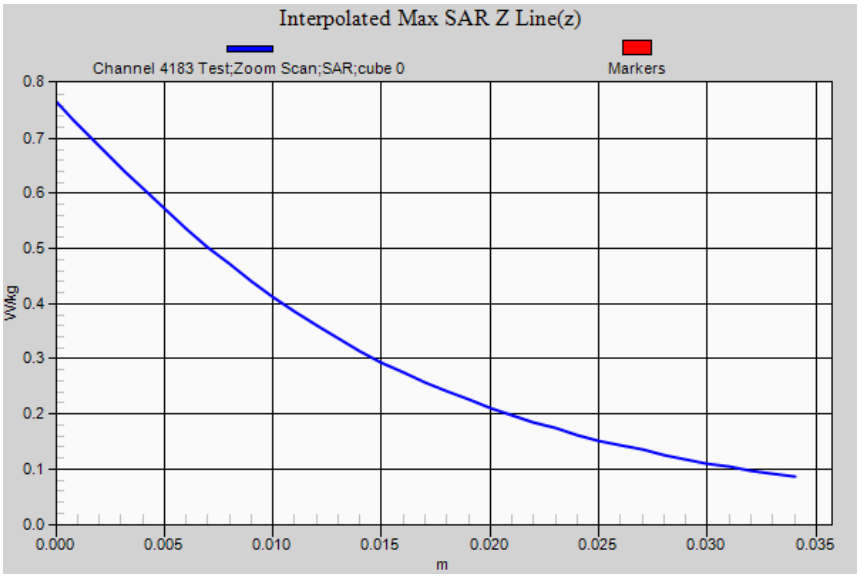
DASY Configuration:
Probe: ET3DV6 - SN1380; ConvF: (6.26,6.26,6.26); Calibrated: 8/12/2016;
Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE3 Sn442; Calibrated: 6/12/2016
Phantom: SAM 12; Type: SAM 12; Serial: 1060
DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

Face Frontal 10mm Spacing Standard Cartridge Variability 10-03-17/Channel 4183 Test/Area Scan (71x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.633 W/kg
Face Frontal 10mm Spacing Standard Cartridge Variability 10-03-17/Channel 4183 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 27.172 V/m;
Power Drift = 0.04 dB
Averaged SAR: SAR(1g) = 0.593 W/kg; SAR(10g) = 0.426 W/kg
Maximum value of SAR (interpolated) = 0.766 W/kg



0 dB = 0.633 W/kg = -1.99 dBW/kg

SAR Measurement Plot 4



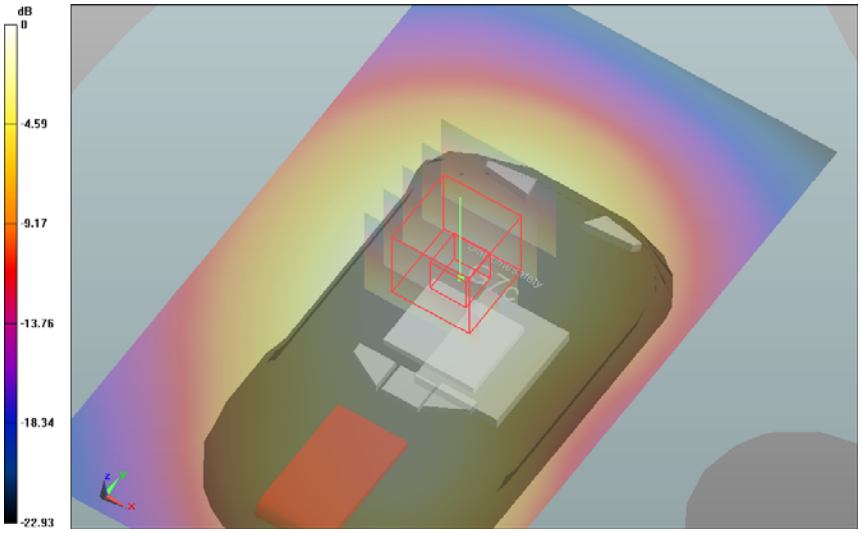
Test Lab: EMCTech Test File: M170217 Head 850 MHz 3G FCC.da52:2

DUT Name: Blackline Safety GSM-3G Transmitter, Type: HMN: G7C, Serial: 3566000154

Configuration: Face Frontal 10mm Spacing H2S Cartridge 10-03-17
Communication System: 0 - WCDMA - UMTS; Communication System Band: Band 5 850 MHz; Frequency: 826.4 MHz, Communication System PAR: 0.00 dB; PMF: 1.00; Duty Cycle: 1:1.00
Medium Parameters used: f=826.5 MHz; σ = 0.90 S/m; ε_r = 42.7; ρ = 1000.0g/cm^3
Phantom section: Flat Section

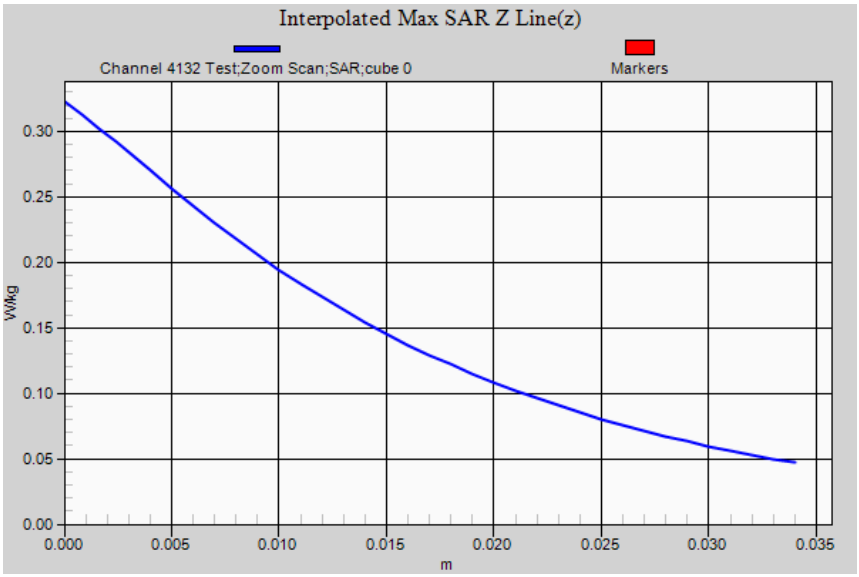
DASY Configuration:
Probe: ET3DV6 - SN1380; ConvF: (6.26,6.26,6.26); Calibrated: 8/12/2016;
Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE3 Sn442; Calibrated: 6/12/2016
Phantom: SAM 12; Type: SAM 12; Serial: 1060
DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

Face Frontal 10mm Spacing H2S Cartridge 10-03-17/Channel 4132 Test/Area Scan (71x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.266 W/kg
Face Frontal 10mm Spacing H2S Cartridge 10-03-17/Channel 4132 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 16.532 V/m; **Power Drift = 0.12 dB**
Averaged SAR: SAR(1g) = 0.255 W/kg; SAR(10g) = 0.185 W/kg
Maximum value of SAR (interpolated) = 0.322 W/kg



0 dB = 0.266 W/kg = -5.75 dBW/kg

SAR Measurement Plot 5



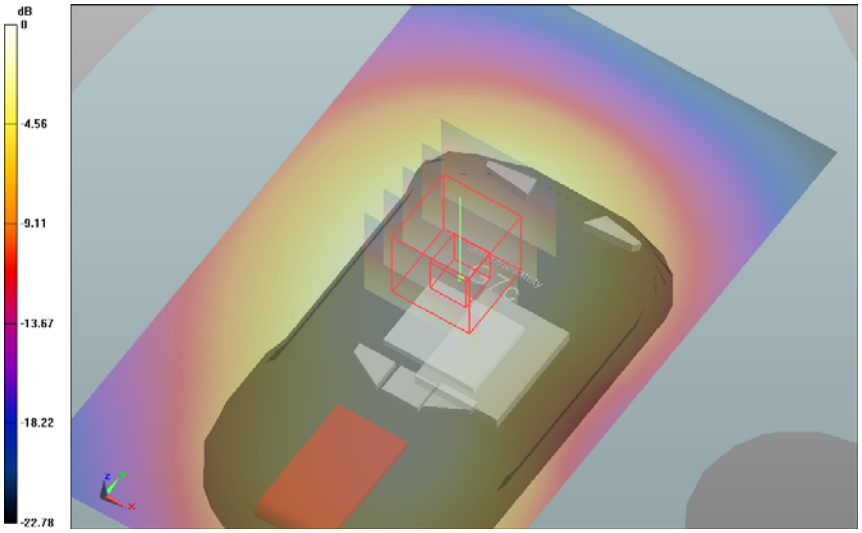
Test Lab: EMCTech Test File: M170217 Head 850 MHz 3G FCC.da52:2

DUT Name: Blackline Safety GSM-3G Transmitter, Type: HMN: G7C, Serial: 3566000154

Configuration: Face Frontal 10mm Spacing H2S Cartridge 10-03-17
Communication System: 0 - WCDMA - UMTS; Communication System Band: Band 5 850 MHz; Frequency: 836.6 MHz, Communication System PAR: 0.00 dB; PMF: 1.00; Duty Cycle: 1:1.00
Medium Parameters used: f=836.5 MHz; σ = 0.91 S/m; ε_r = 42.6; ρ = 1000.0g/cm^3
Phantom section: Flat Section

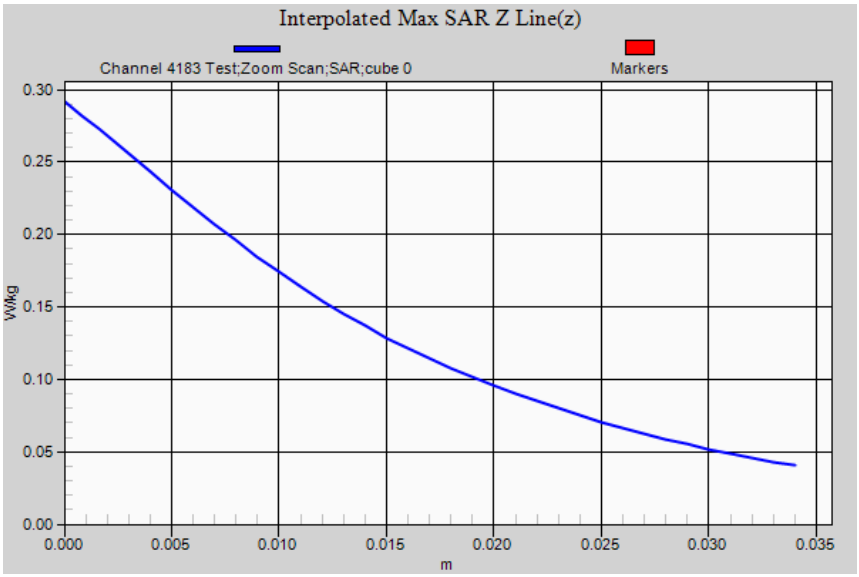
DASY Configuration:
Probe: ET3DV6 - SN1380; ConvF: (6.26,6.26,6.26); Calibrated: 8/12/2016;
Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE3 Sn442; Calibrated: 6/12/2016
Phantom: SAM 12; Type: SAM 12; Serial: 1060
DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

Face Frontal 10mm Spacing H2S Cartridge 10-03-17/Channel 4183 Test/Area Scan (71x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.245 W/kg
Face Frontal 10mm Spacing H2S Cartridge 10-03-17/Channel 4183 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 15.782 V/m; **Power Drift = 0.01 dB**
Averaged SAR: SAR(1g) = 0.230 W/kg; SAR(10g) = 0.167 W/kg
Maximum value of SAR (interpolated) = 0.291 W/kg



0 dB = 0.245 W/kg = -6.11 dBW/kg

SAR Measurement Plot 6



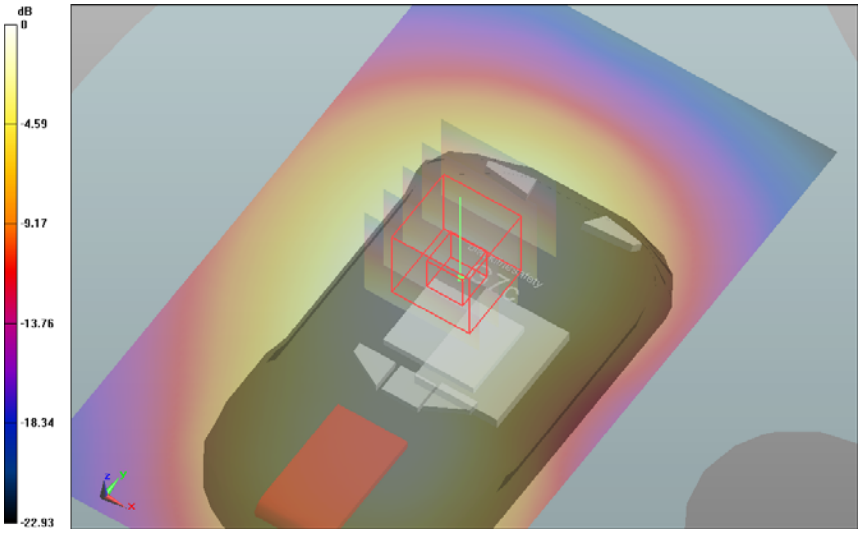
Test Lab: EMCTech Test File: M170217 Head 850 MHz 3G FCC.da52:2

DUT Name: Blackline Safety GSM-3G Transmitter, Type: HMN: G7C, Serial: 3566000154

Configuration: Face Frontal 10mm Spacing H2S Cartridge 10-03-17
Communication System: 0 - WCDMA - UMTS; Communication System Band: Band 5 850 MHz; Frequency: 846.6 MHz, Communication System PAR: 0.00 dB; PMF: 1.00; Duty Cycle: 1:1.00
Medium Parameters used: f=846.5 MHz; σ = 0.92 S/m; ε_r = 42.4; ρ = 1000.0g/cm^3
Phantom section: Flat Section

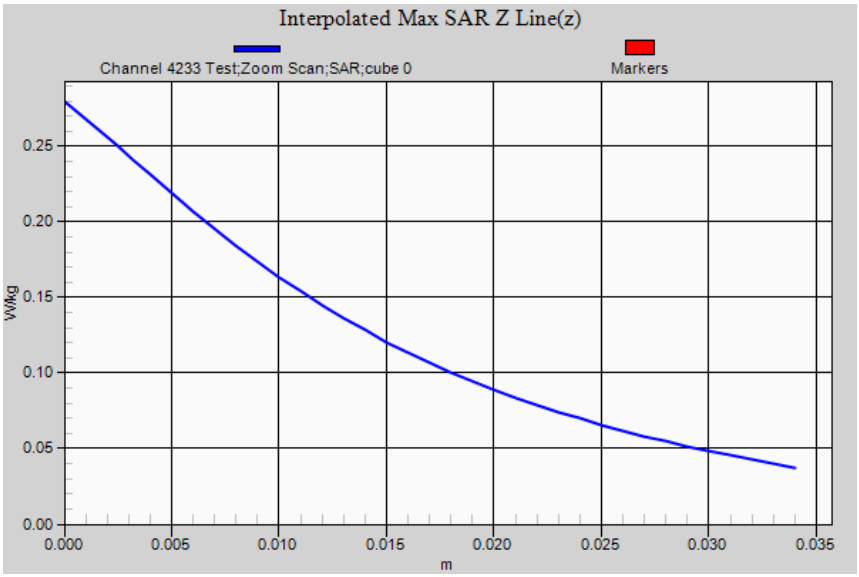
DASY Configuration:
Probe: ET3DV6 - SN1380; ConvF: (6.26,6.26,6.26); Calibrated: 8/12/2016;
Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE3 Sn442; Calibrated: 6/12/2016
Phantom: SAM 12; Type: SAM 12; Serial: 1060
DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

Face Frontal 10mm Spacing H2S Cartridge 10-03-17/Channel 4233 Test/Area Scan (71x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.237 W/kg
Face Frontal 10mm Spacing H2S Cartridge 10-03-17/Channel 4233 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 15.432 V/m; **Power Drift = -0.06 dB**
Averaged SAR: SAR(1g) = 0.220 W/kg; SAR(10g) = 0.159 W/kg
Maximum value of SAR (interpolated) = 0.279 W/kg



0 dB = 0.237 W/kg = -6.25 dBW/kg

SAR Measurement Plot 7



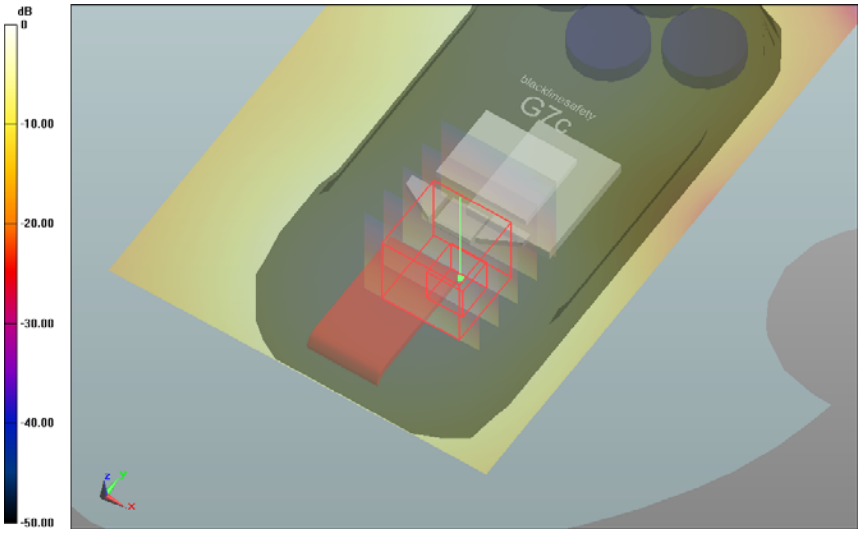
Test Lab: EMCTech Test File: M170217 Head 850 MHz 3G FCC.da52:3

DUT Name: Blackline Safety GSM-3G Transmitter, Type: HMN: G7C, Serial: 3568000104

Configuration: Face Frontal 10mm Spacing O2 CO H2S LEL Cartridge 10-03-17
Communication System: 0 - WCDMA - UMTS; Communication System Band: Band 5 850 MHz; Frequency: 826.4 MHz, Communication System PAR: 0.00 dB; PMF: 1.00; Duty Cycle: 1:1.00
Medium Parameters used: f=826.5 MHz; σ = 0.90 S/m; ε_r = 42.7; ρ = 1000.0g/cm^3
Phantom section: Flat Section

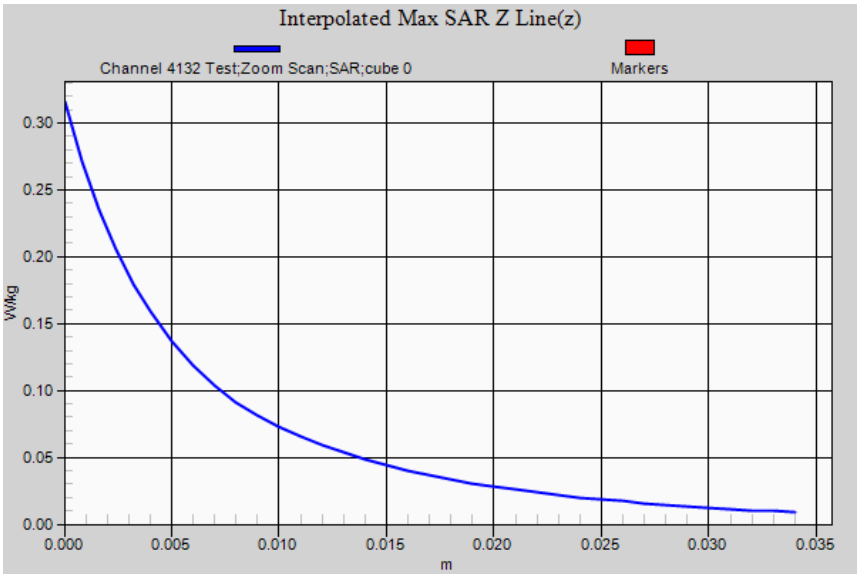
DASY Configuration:
Probe: ET3DV6 - SN1380; ConvF: (6.26,6.26,6.26); Calibrated: 8/12/2016;
Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE3 Sn442; Calibrated: 6/12/2016
Phantom: SAM 12; Type: SAM 12; Serial: 1060
DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

Face Frontal 10mm Spacing O2 CO H2S LEL Cartridge 10-03-17/Channel 4132 Test/Area Scan (71x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.152 W/kg
Face Frontal 10mm Spacing O2 CO H2S LEL Cartridge 10-03-17/Channel 4132 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 7.561 V/m; **Power Drift = -0.19 dB**
Averaged SAR: SAR(1g) = 0.146 W/kg; SAR(10g) = 0.080 W/kg
Maximum value of SAR (interpolated) = 0.316 W/kg



0 dB = 0.152 W/kg = -8.18 dBW/kg

SAR Measurement Plot 8



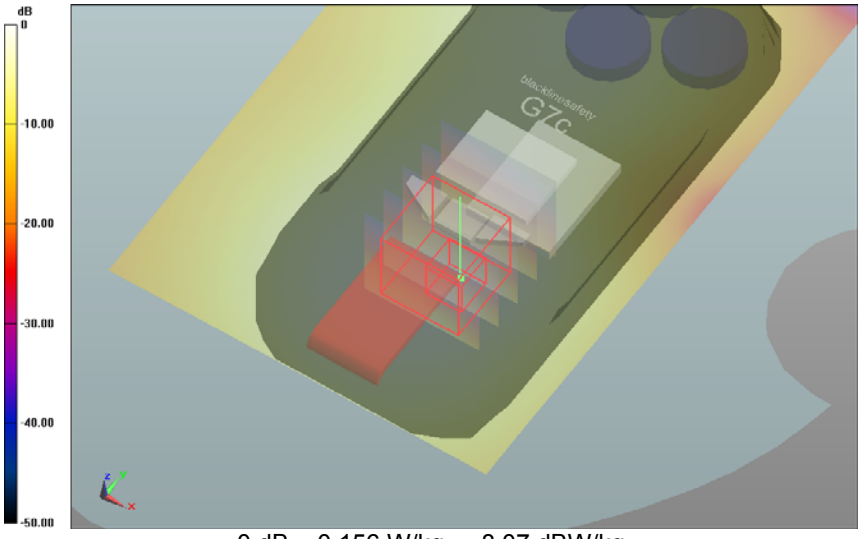
Test Lab: EMCTech Test File: M170217 Head 850 MHz 3G FCC.da52:3

DUT Name: Blackline Safety GSM-3G Transmitter, Type: HMN: G7C, Serial: 3568000104

Configuration: Face Frontal 10mm Spacing O2 CO H2S LEL Cartridge 10-03-17
Communication System: 0 - WCDMA - UMTS; Communication System Band: Band 5 850 MHz; Frequency: 836.6 MHz, Communication System PAR: 0.00 dB; PMF: 1.00; Duty Cycle: 1:1.00
Medium Parameters used: f=836.5 MHz; σ = 0.91 S/m; ε_r = 42.6; ρ = 1000.0g/cm^3
Phantom section: Flat Section

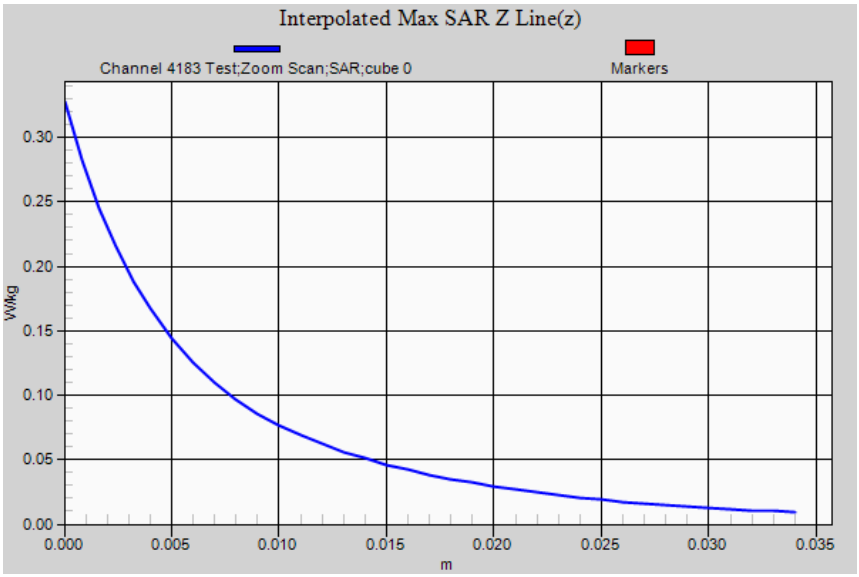
DASY Configuration:
Probe: ET3DV6 - SN1380; ConvF: (6.26,6.26,6.26); Calibrated: 8/12/2016;
Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE3 Sn442; Calibrated: 6/12/2016
Phantom: SAM 12; Type: SAM 12; Serial: 1060
DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

Face Frontal 10mm Spacing O2 CO H2S LEL Cartridge 10-03-17/Channel 4183 Test/Area Scan (71x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.156 W/kg
Face Frontal 10mm Spacing O2 CO H2S LEL Cartridge 10-03-17/Channel 4183 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 7.493 V/m; **Power Drift = -0.10 dB**
Averaged SAR: SAR(1g) = 0.155 W/kg; SAR(10g) = 0.085 W/kg
Maximum value of SAR (interpolated) = 0.327 W/kg



0 dB = 0.156 W/kg = -8.07 dBW/kg

SAR Measurement Plot 9



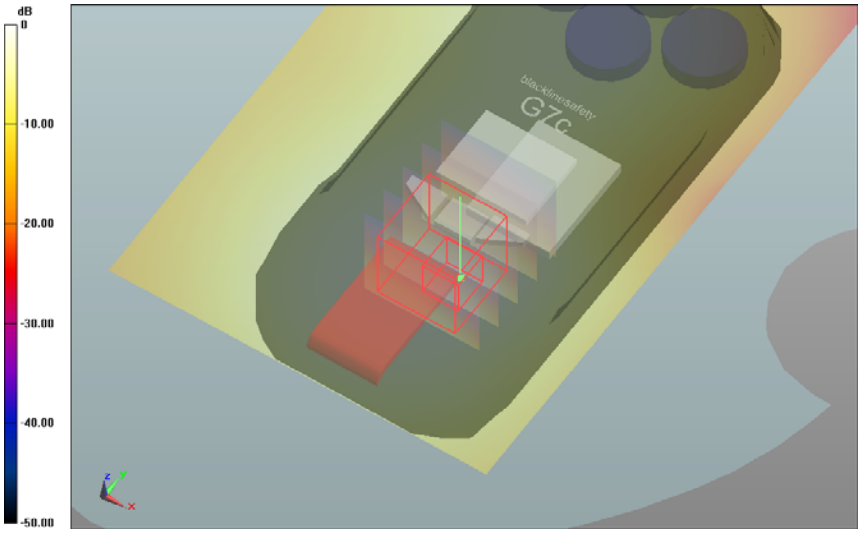
Test Lab: EMCTech Test File: M170217 Head 850 MHz 3G FCC.da52:3

DUT Name: Blackline Safety GSM-3G Transmitter, Type: HMN: G7C, Serial: 3568000104

Configuration: Face Frontal 10mm Spacing O2 CO H2S LEL Cartridge 10-03-17
Communication System: 0 - WCDMA - UMTS; Communication System Band: Band 5 850 MHz; Frequency: 846.6 MHz, Communication System PAR: 0.00 dB; PMF: 1.00; Duty Cycle: 1:1.00
Medium Parameters used: f=846.5 MHz; σ = 0.92 S/m; ε_r = 42.4; ρ = 1000.0g/cm^3
Phantom section: Flat Section

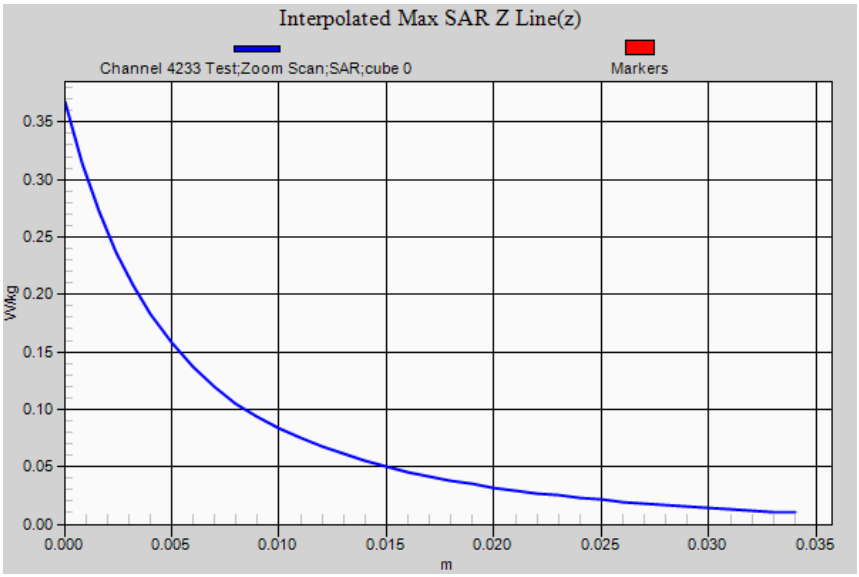
DASY Configuration:
Probe: ET3DV6 - SN1380; ConvF: (6.26,6.26,6.26); Calibrated: 8/12/2016;
Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE3 Sn442; Calibrated: 6/12/2016
Phantom: SAM 12; Type: SAM 12; Serial: 1060
DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

Face Frontal 10mm Spacing O2 CO H2S LEL Cartridge 10-03-17/Channel 4233 Test/Area Scan (71x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.173 W/kg
Face Frontal 10mm Spacing O2 CO H2S LEL Cartridge 10-03-17/Channel 4233 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 7.837 V/m; **Power Drift = -0.06 dB**
Averaged SAR: SAR(1g) = 0.171 W/kg; SAR(10g) = 0.095 W/kg
Maximum value of SAR (interpolated) = 0.367 W/kg



0 dB = 0.173 W/kg = -7.62 dBW/kg

SAR Measurement Plot 10



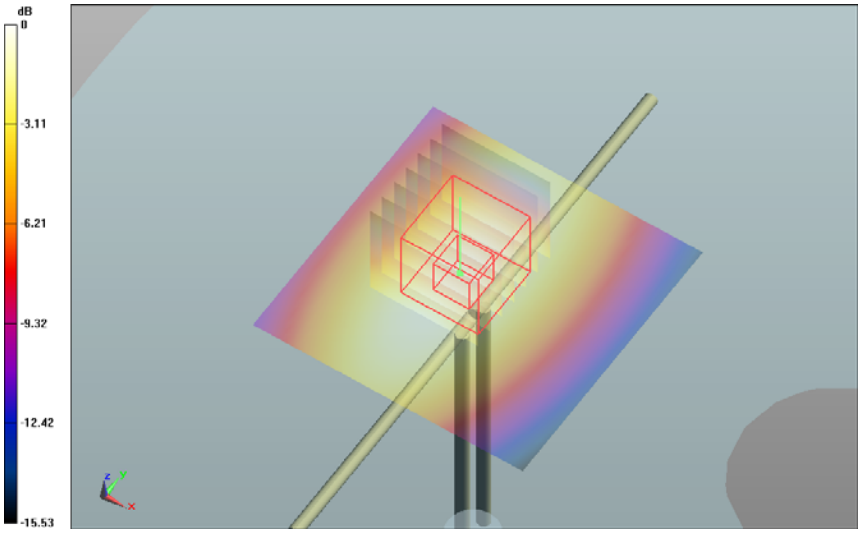
Test Lab: EMCTech Test File: M170217 Head 850 MHz 3G FCC.da52:4

DUT Name: Dipole 900 MHz, Type: DV900V2, Serial: 047

Configuration: System Check 10-03-17
Communication System: 0 - CW; Communication System Band: 900 MHz; Frequency: 900.0 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00
Medium Parameters used: f=900 MHz; σ = 0.97 S/m; ε_r = 41.8; ρ = 1000.0g/cm^3
Phantom section: Flat Section

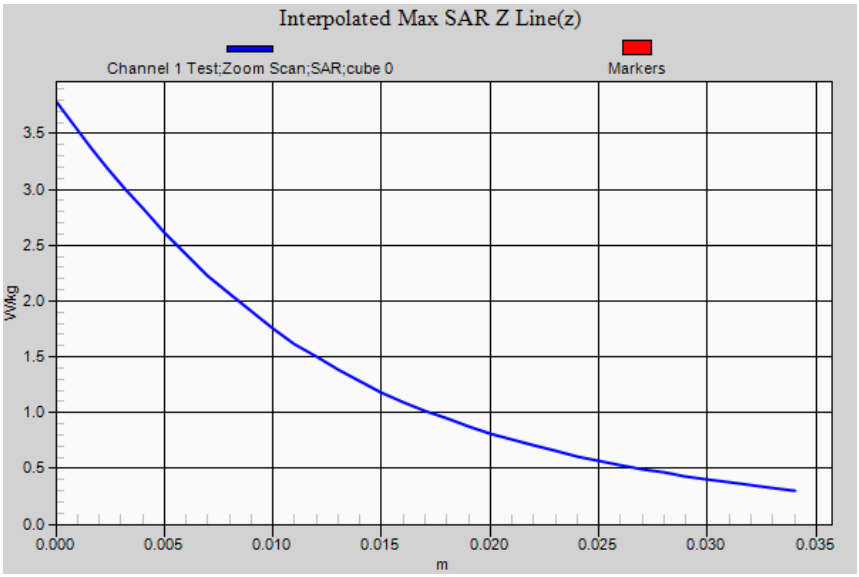
DASY Configuration:
Probe: ET3DV6 - SN1380; ConvF: (6.26,6.26,6.26); Calibrated: 8/12/2016;
Sensor-Surface: 4 mm (Mechanical Surface Detection)
Electronics: DAE3 Sn442; Calibrated: 6/12/2016
Phantom: SAM 12; Type: SAM 12; Serial: 1060
DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

System Check 10-03-17/Channel 1 Test/Area Scan (51x51x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 2.850 W/kg
System Check 10-03-17/Channel 1 Test/Zoom Scan (31x31x36)/Cube 0: Interpolated grid: dx=1.0 mm, dy=1.0 mm, dz=1.0 mm; Reference Value = 56.971 V/m; **Power Drift = -0.12 dB**
Averaged SAR: SAR(1g) = 2.600 W/kg; SAR(10g) = 1.680 W/kg
Maximum value of SAR (interpolated) = 3.780 W/kg



0 dB = 2.85 W/kg = 4.55 dBW/kg

SAR Measurement Plot 11



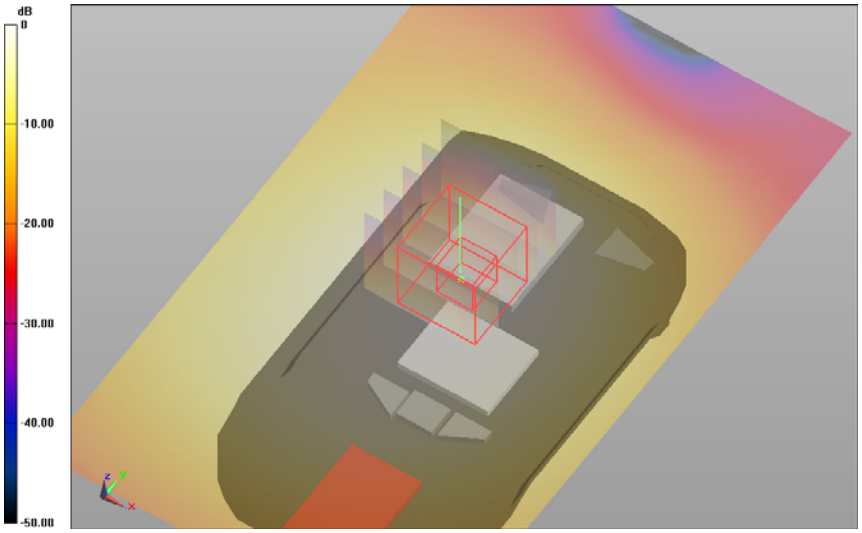
Test Lab: EMCTech Test File: M170217 Body 850 MHz 3G FCC.da52:0

DUT Name: Blackline Safety GSM-3G Transmitter, Type: HMN: G7C, Serial: 3566000154

Configuration: Body Worn Belt Clip Standard Cartridge 15-03-17
Communication System: 0 - WCDMA - UMTS; Communication System Band: Band 5 850 MHz; Frequency: 826.4 MHz, Communication System PAR: 0.00 dB; PMF: 1.00; Duty Cycle: 1:1.00
Medium Parameters used: f=826.5 MHz; σ = 0.98 S/m; ε_r = 54.6; ρ = 1000.0g/cm^3
Phantom section: Flat Section

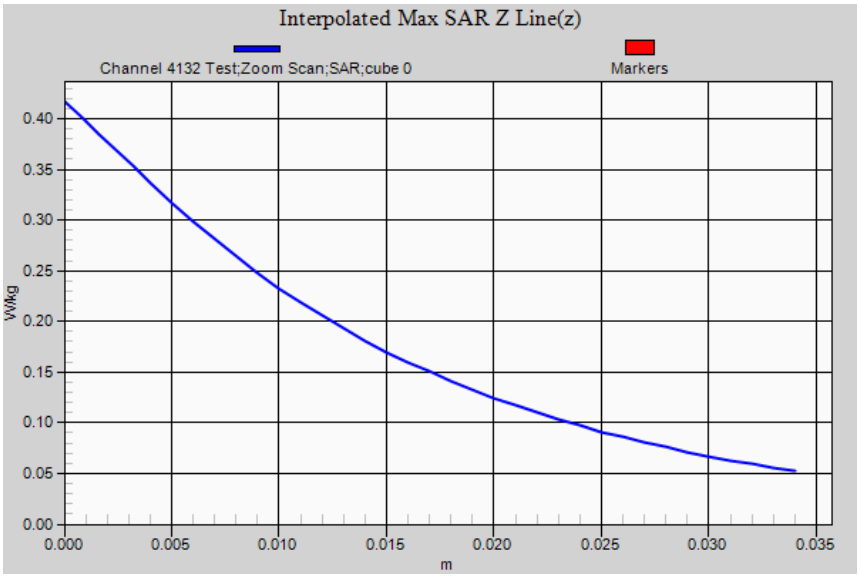
DASY Configuration:
Probe: ET3DV6 - SN1380; ConvF: (6.2,6.2,6.2); Calibrated: 8/12/2016;
Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE3 Sn442; Calibrated: 6/12/2016
Phantom: ELI v4.0 (30deg probe tilt); Type: QDOVA001BB; Serial: TP:1101
DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

Body Worn Belt Clip Standard Cartridge 15-03-17/Channel 4132 Test/Area Scan (71x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.338 W/kg
Body Worn Belt Clip Standard Cartridge 15-03-17/Channel 4132 Test/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 16.267 V/m; **Power Drift = -0.10 dB**
Averaged SAR: SAR(1g) = 0.329 W/kg; SAR(10g) = 0.226 W/kg
Maximum value of SAR (interpolated) = 0.416 W/kg



0 dB = 0.338 W/kg = -4.71 dBW/kg

SAR Measurement Plot 12



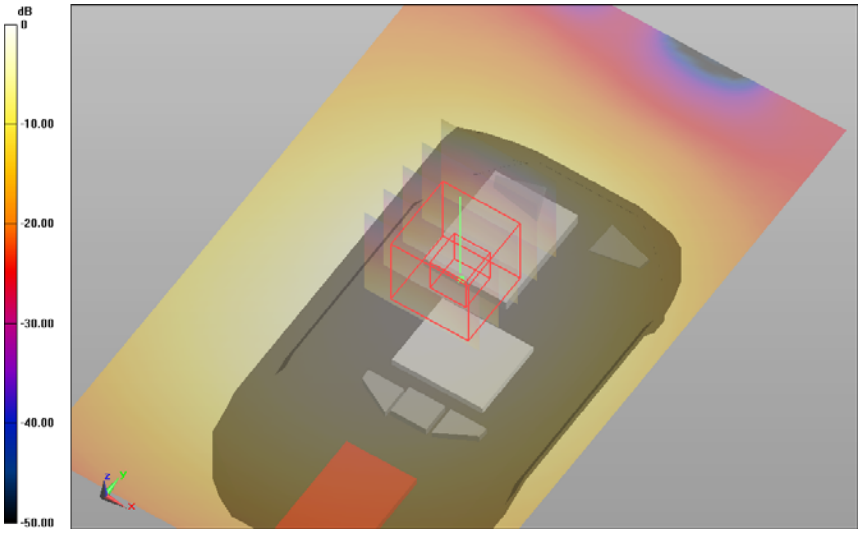
Test Lab: EMCTech Test File: M170217 Body 850 MHz 3G FCC.da52:0

DUT Name: Blackline Safety GSM-3G Transmitter, Type: HMN: G7C, Serial: 3566000154

Configuration: Body Worn Belt Clip Standard Cartridge 15-03-17
Communication System: 0 - WCDMA - UMTS; Communication System Band: Band 5 850 MHz; Frequency: 836.6 MHz, Communication System PAR: 0.00 dB; PMF: 1.00; Duty Cycle: 1:1.00
Medium Parameters used: f=836.5 MHz; σ = 0.99 S/m; ε_r = 54.5; ρ = 1000.0g/cm^3
Phantom section: Flat Section

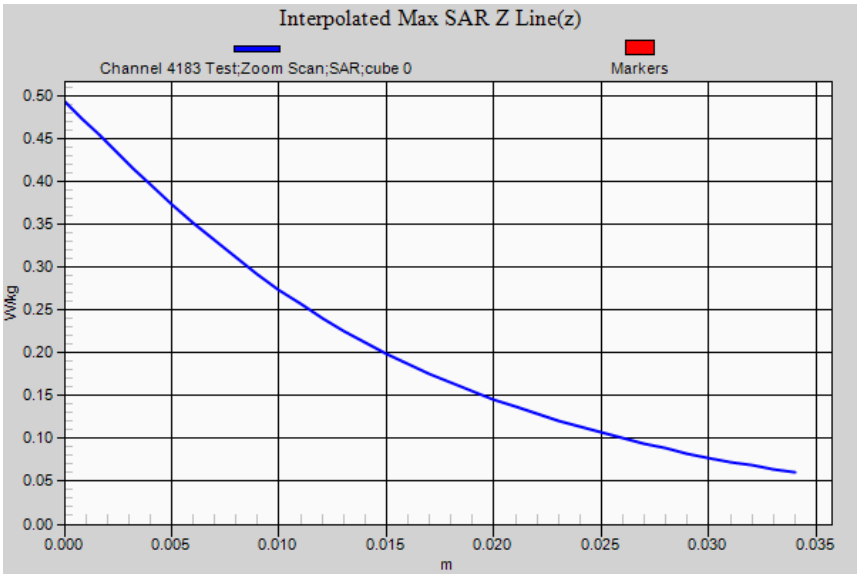
DASY Configuration:
Probe: ET3DV6 - SN1380; ConvF: (6.2,6.2,6.2); Calibrated: 8/12/2016;
Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE3 Sn442; Calibrated: 6/12/2016
Phantom: ELI v4.0 (30deg probe tilt); Type: QDOVA001BB; Serial: TP:1101
DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

Body Worn Belt Clip Standard Cartridge 15-03-17/Channel 4183 Test/Area Scan (71x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.393 W/kg
Body Worn Belt Clip Standard Cartridge 15-03-17/Channel 4183 Test/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 17.302 V/m; **Power Drift = -0.01 dB**
Averaged SAR: SAR(1g) = 0.387 W/kg; SAR(10g) = 0.265 W/kg
Maximum value of SAR (interpolated) = 0.493 W/kg



0 dB = 0.393 W/kg = -4.06 dBW/kg

SAR Measurement Plot 13



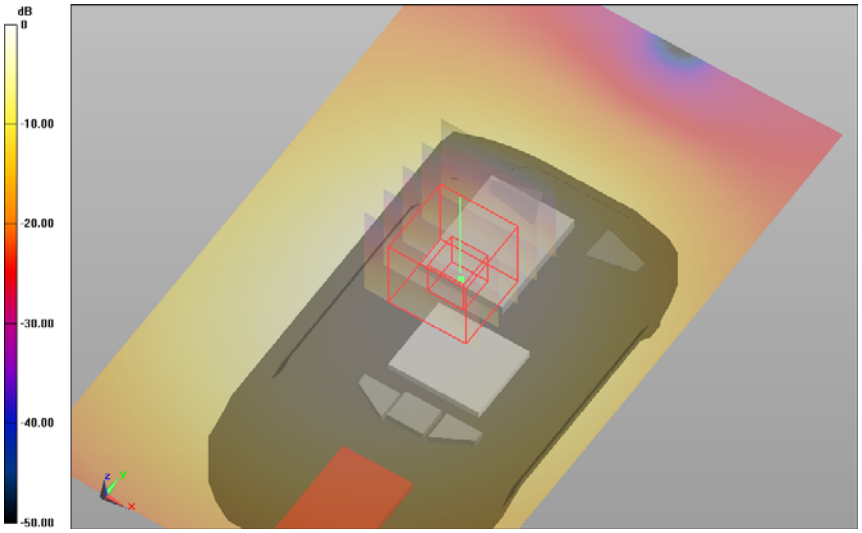
Test Lab: EMCTech Test File: M170217 Body 850 MHz 3G FCC.da52:0

DUT Name: Blackline Safety GSM-3G Transmitter, Type: HMN: G7C, Serial: 3566000154

Configuration: Body Worn Belt Clip Standard Cartridge 15-03-17
Communication System: 0 - WCDMA - UMTS; Communication System Band: Band 5 850 MHz; Frequency: 846.6 MHz, Communication System PAR: 0.00 dB; PMF: 1.00; Duty Cycle: 1:1.00
Medium Parameters used: f=846.5 MHz; σ = 1.00 S/m; ε_r = 54.4; ρ = 1000.0g/cm^3
Phantom section: Flat Section

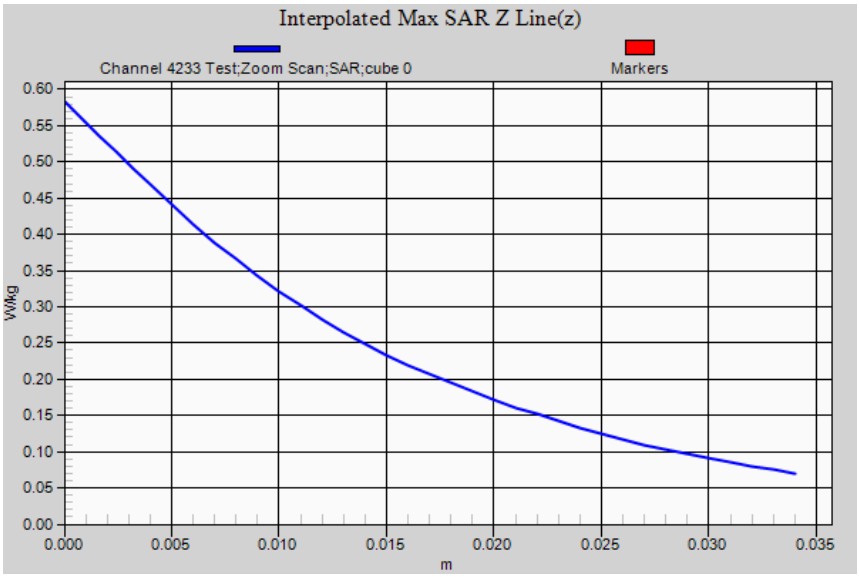
DASY Configuration:
Probe: ET3DV6 - SN1380; ConvF: (6.2,6.2,6.2); Calibrated: 8/12/2016;
Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE3 Sn442; Calibrated: 6/12/2016
Phantom: ELI v4.0 (30deg probe tilt); Type: QDOVA001BB; Serial: TP:1101
DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

Body Worn Belt Clip Standard Cartridge 15-03-17/Channel 4233 Test/Area Scan (71x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.459 W/kg
Body Worn Belt Clip Standard Cartridge 15-03-17/Channel 4233 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 18.446 V/m; **Power Drift = 0.01 dB**
Averaged SAR: SAR(1g) = 0.452 W/kg; SAR(10g) = 0.308 W/kg
Maximum value of SAR (interpolated) = 0.583 W/kg



0 dB = 0.459 W/kg = -3.38 dBW/kg

SAR Measurement Plot 14



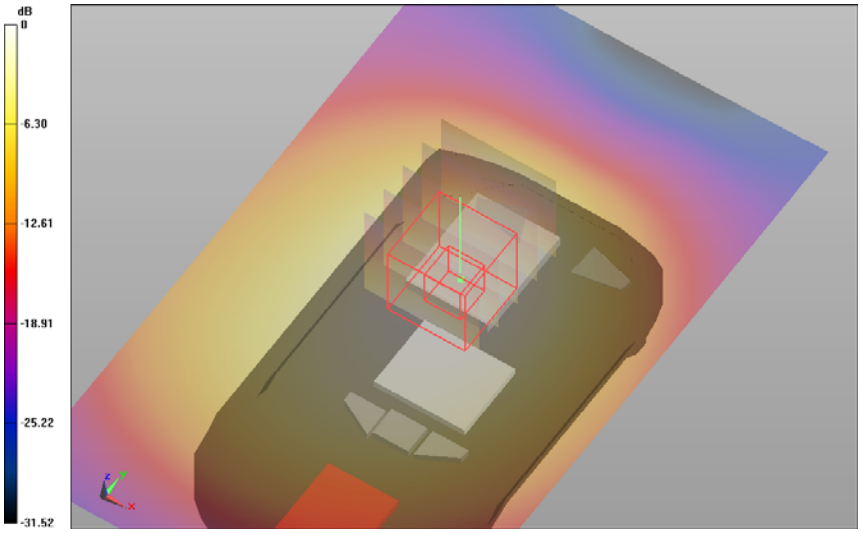
Test Lab: EMCTech Test File: M170217 Body 850 MHz 3G FCC.da52:1

DUT Name: Blackline Safety GSM-3G Transmitter, Type: HMN: G7C, Serial: 3566000154

Configuration: Body Worn Belt Clip Standard Cartridge variability 15-03-17
Communication System: 0 - WCDMA - UMTS; Communication System Band: Band 5 850 MHz; Frequency: 846.6 MHz, Communication System PAR: 0.00 dB; PMF: 1.00; Duty Cycle: 1:1.00
Medium Parameters used: f=846.5 MHz; σ = 1.00 S/m; ε_r = 54.4; ρ = 1000.0g/cm^3
Phantom section: Flat Section

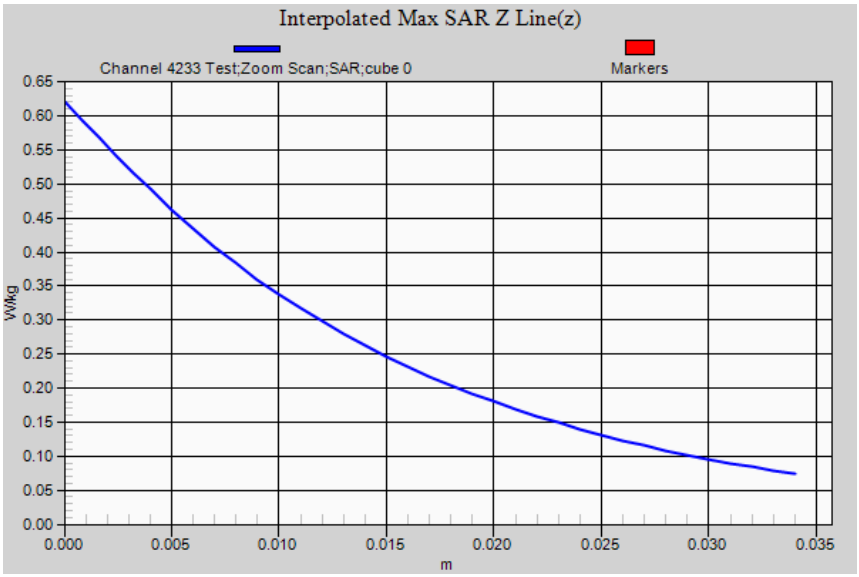
DASY Configuration:
Probe: ET3DV6 - SN1380; ConvF: (6.2,6.2,6.2); Calibrated: 8/12/2016;
Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE3 Sn442; Calibrated: 6/12/2016
Phantom: ELI v4.0 (30deg probe tilt); Type: QDOVA001BB; Serial: TP:1101
DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

Body Worn Belt Clip Standard Cartridge variability 15-03-17/Channel 4233 Test/Area Scan (71x121x1):
Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.498 W/kg
Body Worn Belt Clip Standard Cartridge variability 15-03-17/Channel 4233 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 18.116 V/m;
Power Drift = -0.02 dB
Averaged SAR: SAR(1g) = 0.476 W/kg; SAR(10g) = 0.324 W/kg
Maximum value of SAR (interpolated) = 0.620 W/kg



0 dB = 0.498 W/kg = -3.03 dBW/kg

SAR Measurement Plot 15



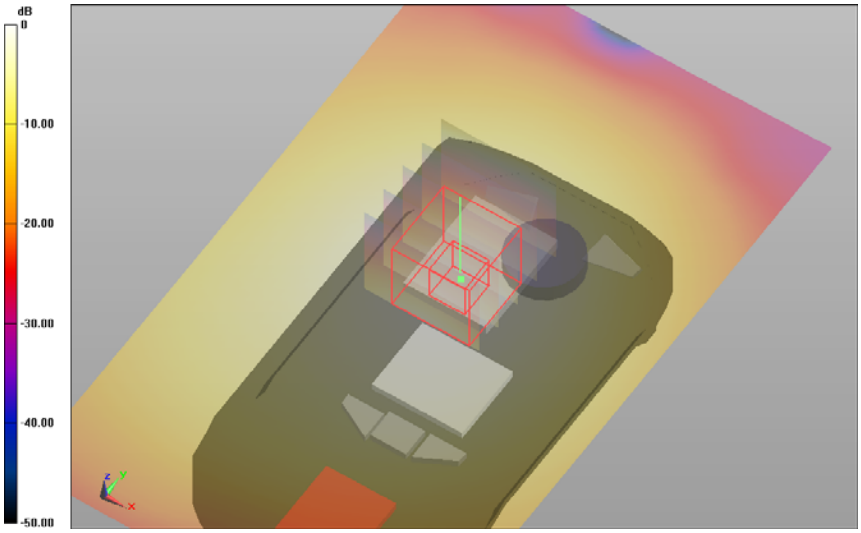
Test Lab: EMCTech Test File: M170217 Body 850 MHz 3G FCC.da52:2

DUT Name: Blackline Safety GSM-3G Transmitter, Type: HMN: G7C, Serial: 3566000154

Configuration: Body Worn Belt Clip H2S Cartridge 15-03-17
Communication System: 0 - WCDMA - UMTS; Communication System Band: Band 5 850 MHz; Frequency: 826.4 MHz, Communication System PAR: 0.00 dB; PMF: 1.00; Duty Cycle: 1:1.00
Medium Parameters used: f=826.5 MHz; σ = 0.98 S/m; ε_r = 54.6; ρ = 1000.0g/cm^3
Phantom section: Flat Section

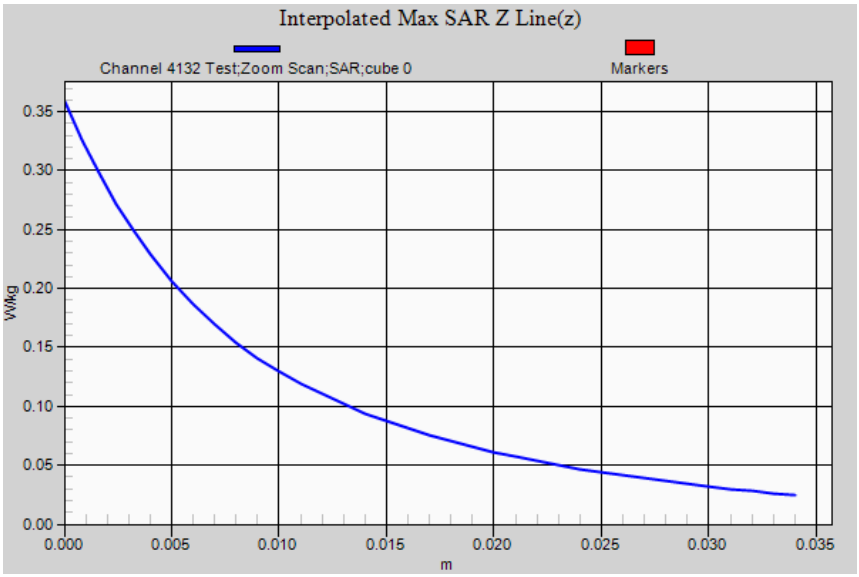
DASY Configuration:
Probe: ET3DV6 - SN1380; ConvF: (6.2,6.2,6.2); Calibrated: 8/12/2016;
Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE3 Sn442; Calibrated: 6/12/2016
Phantom: ELI v4.0 (30deg probe tilt); Type: QDOVA001BB; Serial: TP:1101
DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

Body Worn Belt Clip H2S Cartridge 15-03-17/Channel 4132 Test/Area Scan (71x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.284 W/kg
Body Worn Belt Clip H2S Cartridge 15-03-17/Channel 4132 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 13.206 V/m; **Power Drift = -0.10 dB**
Averaged SAR: SAR(1g) = 0.273 W/kg; SAR(10g) = 0.183 W/kg
Maximum value of SAR (interpolated) = 0.358 W/kg



0 dB = 0.284 W/kg = -5.47 dBW/kg

SAR Measurement Plot 16



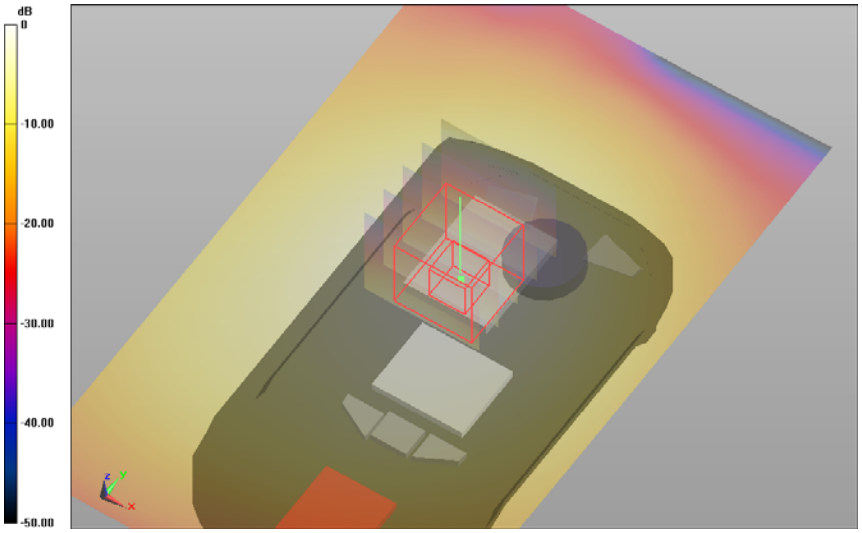
Test Lab: EMCTech Test File: M170217 Body 850 MHz 3G FCC.da52:2

DUT Name: Blackline Safety GSM-3G Transmitter, Type: HMN: G7C, Serial: 3566000154

Configuration: Body Worn Belt Clip H2S Cartridge 15-03-17
Communication System: 0 - WCDMA - UMTS; Communication System Band: Band 5 850 MHz; Frequency: 836.6 MHz, Communication System PAR: 0.00 dB; PMF: 1.00; Duty Cycle: 1:1.00
Medium Parameters used: f=836.5 MHz; σ = 0.99 S/m; ε_r = 54.5; ρ = 1000.0g/cm^3
Phantom section: Flat Section

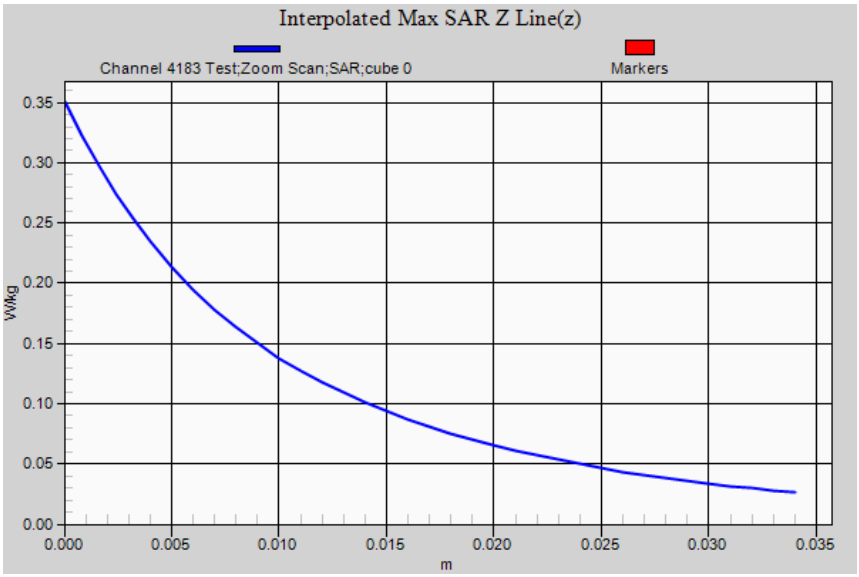
DASY Configuration:
Probe: ET3DV6 - SN1380; ConvF: (6.2,6.2,6.2); Calibrated: 8/12/2016;
Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE3 Sn442; Calibrated: 6/12/2016
Phantom: ELI v4.0 (30deg probe tilt); Type: QDOVA001BB; Serial: TP:1101
DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

Body Worn Belt Clip H2S Cartridge 15-03-17/Channel 4183 Test/Area Scan (71x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.273 W/kg
Body Worn Belt Clip H2S Cartridge 15-03-17/Channel 4183 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 12.754 V/m; **Power Drift = 0.07 dB**
Averaged SAR: SAR(1g) = 0.267 W/kg; SAR(10g) = 0.178 W/kg
Maximum value of SAR (interpolated) = 0.350 W/kg



0 dB = 0.273 W/kg = -5.64 dBW/kg

SAR Measurement Plot 17



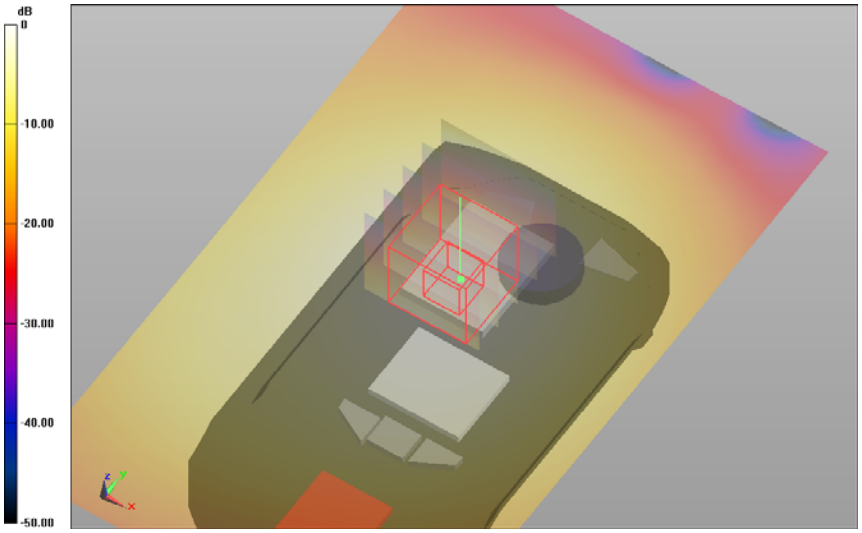
Test Lab: EMCTech Test File: M170217 Body 850 MHz 3G FCC.da52:2

DUT Name: Blackline Safety GSM-3G Transmitter, Type: HMN: G7C, Serial: 3566000154

Configuration: Body Worn Belt Clip H2S Cartridge 15-03-17
Communication System: 0 - WCDMA - UMTS; Communication System Band: Band 5 850 MHz; Frequency: 846.6 MHz, Communication System PAR: 0.00 dB; PMF: 1.00; Duty Cycle: 1:1.00
Medium Parameters used: f=846.5 MHz; σ = 1.00 S/m; ε_r = 54.4; ρ = 1000.0g/cm^3
Phantom section: Flat Section

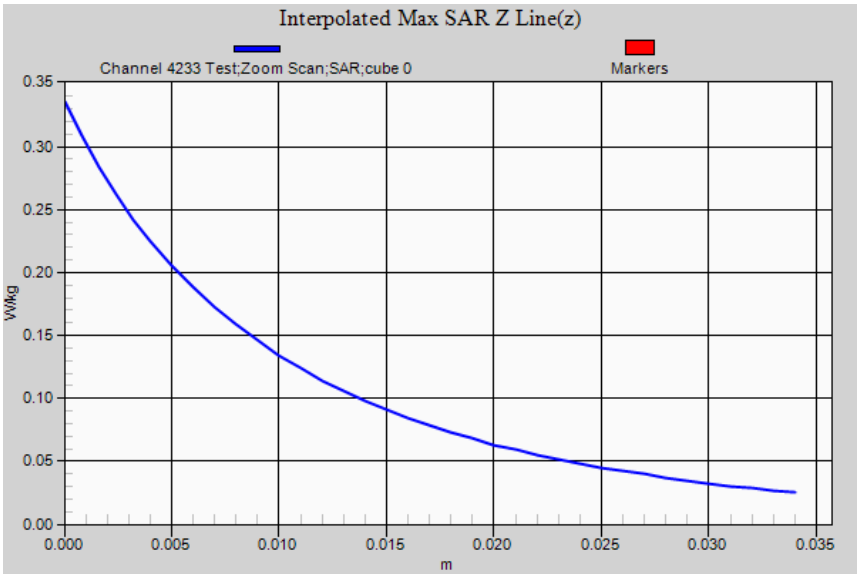
DASY Configuration:
Probe: ET3DV6 - SN1380; ConvF: (6.2,6.2,6.2); Calibrated: 8/12/2016;
Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE3 Sn442; Calibrated: 6/12/2016
Phantom: ELI v4.0 (30deg probe tilt); Type: QDOVA001BB; Serial: TP:1101
DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

Body Worn Belt Clip H2S Cartridge 15-03-17/Channel 4233 Test/Area Scan (71x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.260 W/kg
Body Worn Belt Clip H2S Cartridge 15-03-17/Channel 4233 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 12.210 V/m; **Power Drift = 0.12 dB**
Averaged SAR: SAR(1g) = 0.255 W/kg; SAR(10g) = 0.170 W/kg
Maximum value of SAR (interpolated) = 0.335 W/kg



0 dB = 0.260 W/kg = -5.85 dBW/kg

SAR Measurement Plot 18



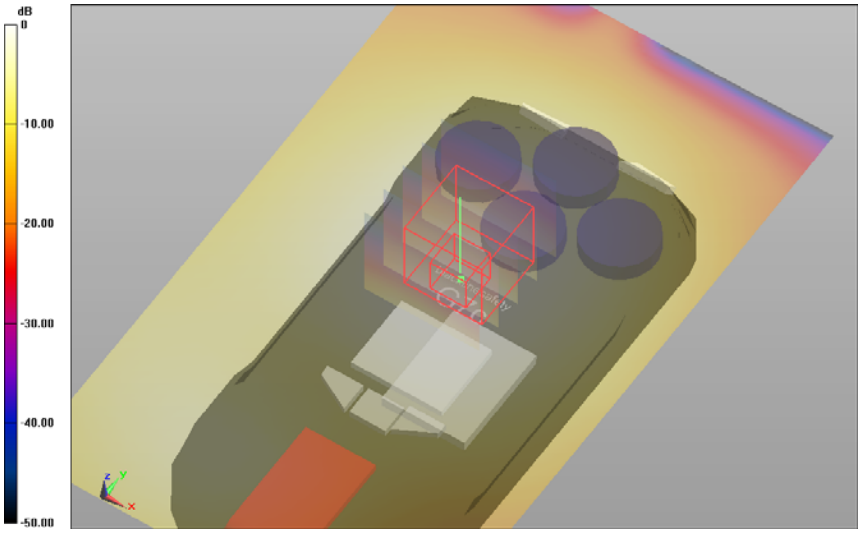
Test Lab: EMCTech Test File: M170217 Body 850 MHz 3G FCC.da52:3

DUT Name: Blackline Safety GSM-3G Transmitter, Type: HMN: G7C, Serial: 3568000104

Configuration: Body Worn Belt Clip O2 CO H2S LEL Cartridge 15-03-17
Communication System: 0 - WCDMA - UMTS; Communication System Band: Band 5 850 MHz; Frequency: 826.4 MHz, Communication System PAR: 0.00 dB; PMF: 1.00; Duty Cycle: 1:1.00
Medium Parameters used: f=826.5 MHz; σ = 0.98 S/m; ε_r = 54.6; ρ = 1000.0g/cm^3
Phantom section: Flat Section

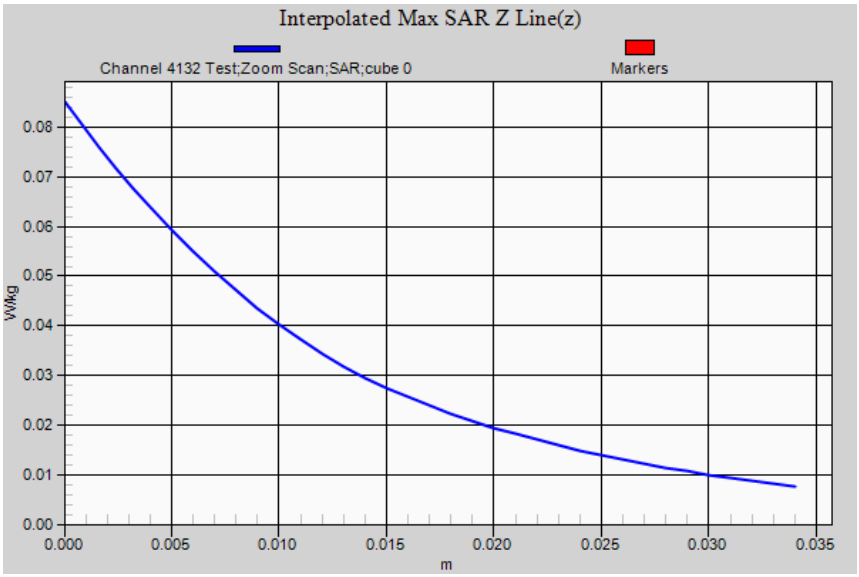
DASY Configuration:
Probe: ET3DV6 - SN1380; ConvF: (6.2,6.2,6.2); Calibrated: 8/12/2016;
Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE3 Sn442; Calibrated: 6/12/2016
Phantom: ELI v4.0 (30deg probe tilt); Type: QDOVA001BB; Serial: TP:1101
DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

Body Worn Belt Clip O2 CO H2S LEL Cartridge 15-03-17/Channel 4132 Test/Area Scan (71x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.063 W/kg
Body Worn Belt Clip O2 CO H2S LEL Cartridge 15-03-17/Channel 4132 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 6.024 V/m; **Power Drift = -0.04 dB**
Averaged SAR: SAR(1g) = 0.062 W/kg; SAR(10g) = 0.041 W/kg
Maximum value of SAR (interpolated) = 0.085 W/kg



0 dB = 0.0630 W/kg = -12.01 dBW/kg

SAR Measurement Plot 19



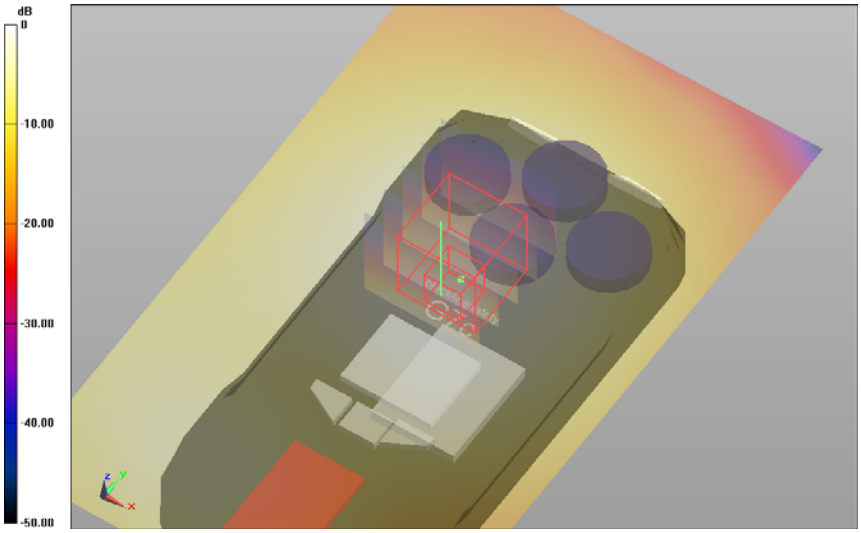
Test Lab: EMCTech Test File: M170217 Body 850 MHz 3G FCC.da52:3

DUT Name: Blackline Safety GSM-3G Transmitter, Type: HMN: G7C, Serial: 3568000104

Configuration: Body Worn Belt Clip O2 CO H2S LEL Cartridge 15-03-17
Communication System: 0 - WCDMA - UMTS; Communication System Band: Band 5 850 MHz; Frequency: 836.6 MHz, Communication System PAR: 0.00 dB; PMF: 1.00; Duty Cycle: 1:1.00
Medium Parameters used: f=836.5 MHz; σ = 0.99 S/m; ε_r = 54.5; ρ = 1000.0g/cm^3
Phantom section: Flat Section

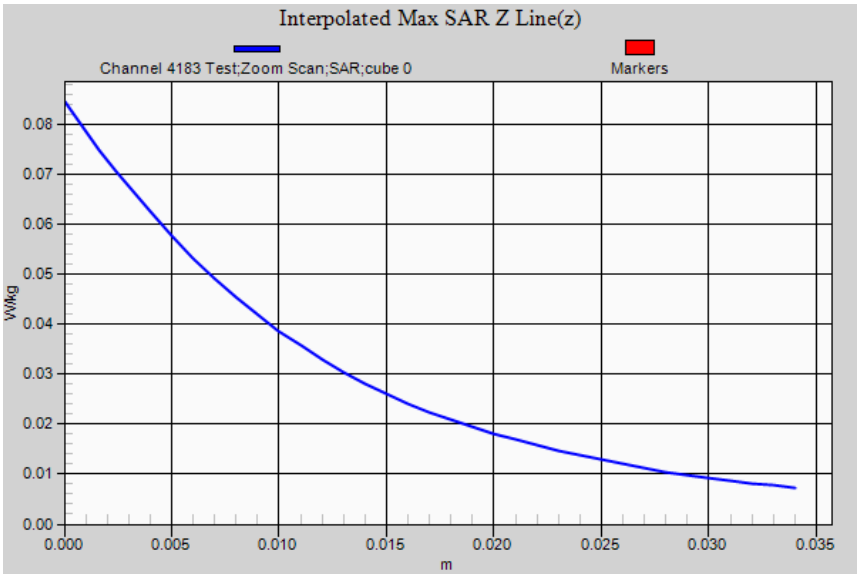
DASY Configuration:
Probe: ET3DV6 - SN1380; ConvF: (6.2,6.2,6.2); Calibrated: 8/12/2016;
Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE3 Sn442; Calibrated: 6/12/2016
Phantom: ELI v4.0 (30deg probe tilt); Type: QDOVA001BB; Serial: TP:1101
DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

Body Worn Belt Clip O2 CO H2S LEL Cartridge 15-03-17/Channel 4183 Test/Area Scan (71x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.060 W/kg
Body Worn Belt Clip O2 CO H2S LEL Cartridge 15-03-17/Channel 4183 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 5.629 V/m; **Power Drift = 0.11 dB**
Averaged SAR: SAR(1g) = 0.060 W/kg; SAR(10g) = 0.040 W/kg
Maximum value of SAR (interpolated) = 0.084 W/kg



0 dB = 0.0595 W/kg = -12.25 dBW/kg

SAR Measurement Plot 20



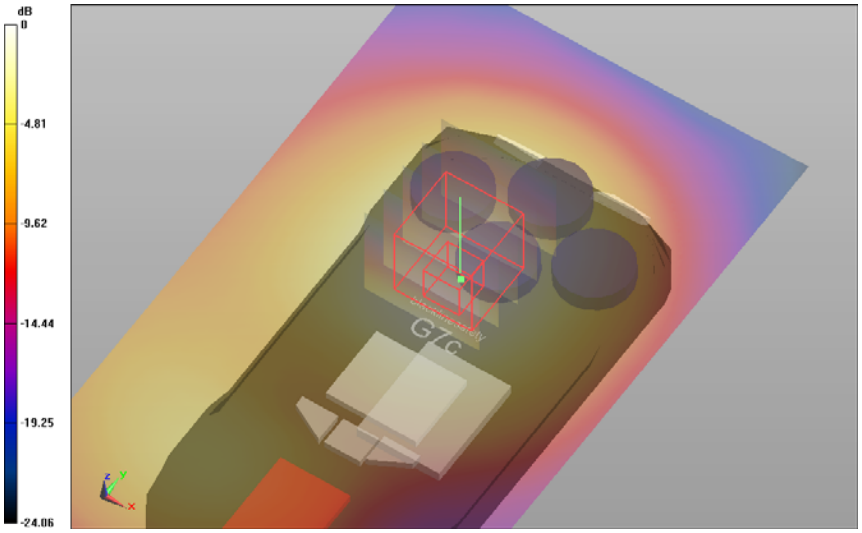
Test Lab: EMCTech Test File: M170217 Body 850 MHz 3G FCC.da52:3

DUT Name: Blackline Safety GSM-3G Transmitter, Type: HMN: G7C, Serial: 3568000104

Configuration: Body Worn Belt Clip O2 CO H2S LEL Cartridge 15-03-17
Communication System: 0 - WCDMA - UMTS; Communication System Band: Band 5 850 MHz; Frequency: 846.6 MHz, Communication System PAR: 0.00 dB; PMF: 1.00; Duty Cycle: 1:1.00
Medium Parameters used: f=846.5 MHz; σ = 1.00 S/m; ε_r = 54.4; ρ = 1000.0g/cm^3
Phantom section: Flat Section

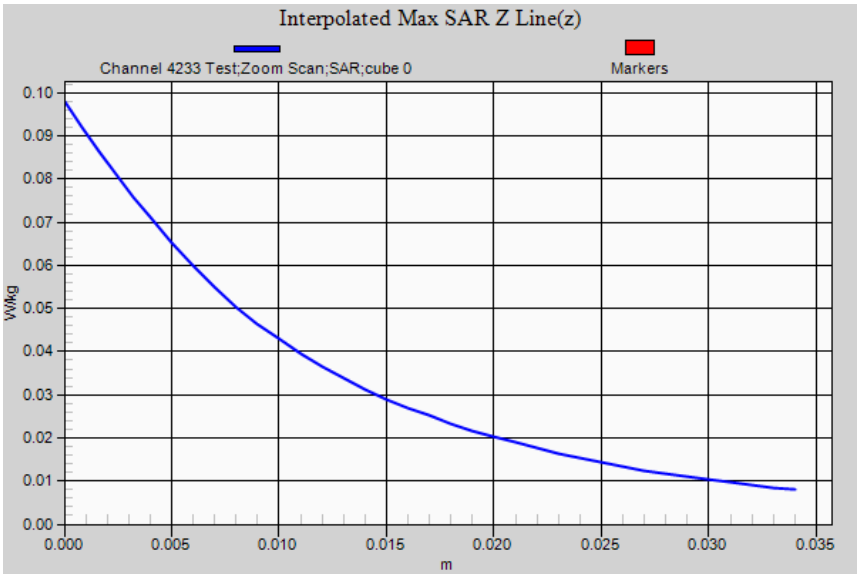
DASY Configuration:
Probe: ET3DV6 - SN1380; ConvF: (6.2,6.2,6.2); Calibrated: 8/12/2016;
Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE3 Sn442; Calibrated: 6/12/2016
Phantom: ELI v4.0 (30deg probe tilt); Type: QDOVA001BB; Serial: TP:1101
DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

Body Worn Belt Clip O2 CO H2S LEL Cartridge 15-03-17/Channel 4233 Test/Area Scan (71x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.072 W/kg
Body Worn Belt Clip O2 CO H2S LEL Cartridge 15-03-17/Channel 4233 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 5.190 V/m; **Power Drift = -0.03 dB**
Averaged SAR: SAR(1g) = 0.068 W/kg; SAR(10g) = 0.045 W/kg
Maximum value of SAR (interpolated) = 0.098 W/kg



0 dB = 0.0720 W/kg = -11.43 dBW/kg

SAR Measurement Plot 21



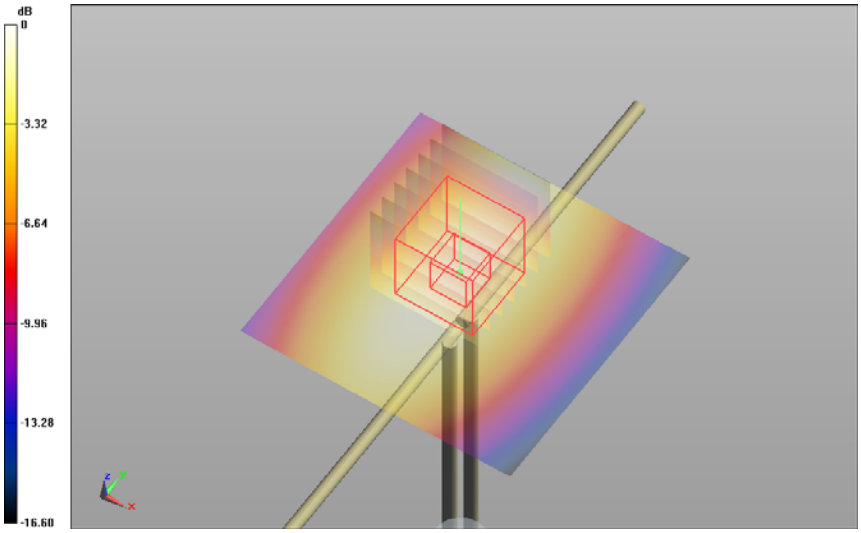
Test Lab: EMCTech Test File: M170217 Body 850 MHz 3G FCC.da52:4

DUT Name: Dipole 900 MHz, Type: DV900V2, Serial: 047

Configuration: System Check 15-03-17
Communication System: 0 - CW; Communication System Band: 900 MHz; Frequency: 900.0 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00
Medium Parameters used: f=900 MHz; σ = 1.05 S/m; ε_r = 53.9; ρ = 1000.0g/cm^3
Phantom section: Flat Section

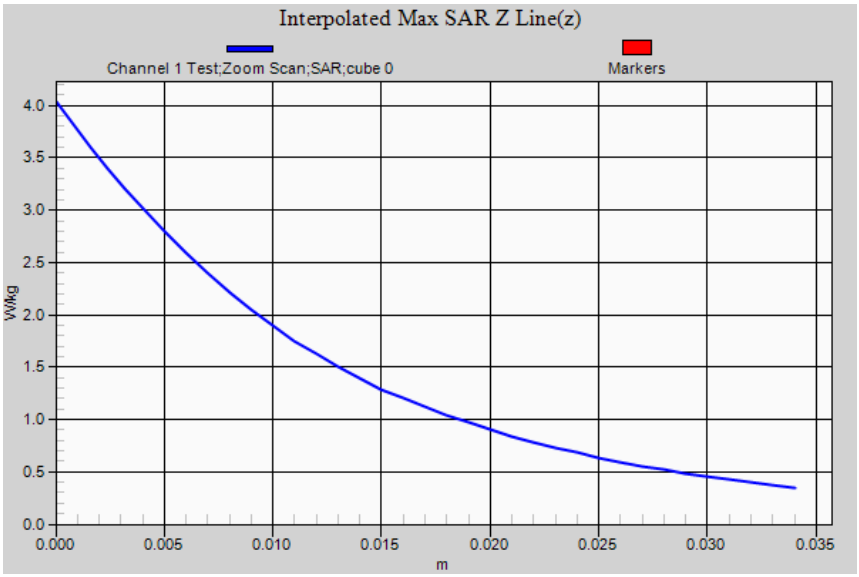
DASY Configuration:
Probe: ET3DV6 - SN1380; ConvF: (6.2,6.2,6.2); Calibrated: 8/12/2016;
Sensor-Surface: 4 mm (Mechanical Surface Detection)
Electronics: DAE3 Sn442; Calibrated: 6/12/2016
Phantom: ELI v4.0 (30deg probe tilt); Type: QDOVA001BB; Serial: TP:1101
DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

System Check 15-03-17/Channel 1 Test/Area Scan (51x51x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 3.000 W/kg
System Check 15-03-17/Channel 1 Test/Zoom Scan (31x31x36)/Cube 0: Interpolated grid: dx=1.0 mm, dy=1.0 mm, dz=1.0 mm; Reference Value = 56.058 V/m; **Power Drift = -0.06 dB**
Averaged SAR: SAR(1g) = 2.890 W/kg; SAR(10g) = 1.850 W/kg
Maximum value of SAR (interpolated) = 4.030 W/kg



0 dB = 3.00 W/kg = 4.77 dBW/kg

SAR Measurement Plot 22


Interpolated Max SAR Z Line(z)
Channel 1 Test;Zoom Scan;SAR;cube 0
Markers
W/kg
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.000
0.005
0.010
0.015
0.020
0.025
0.030
0.035
m

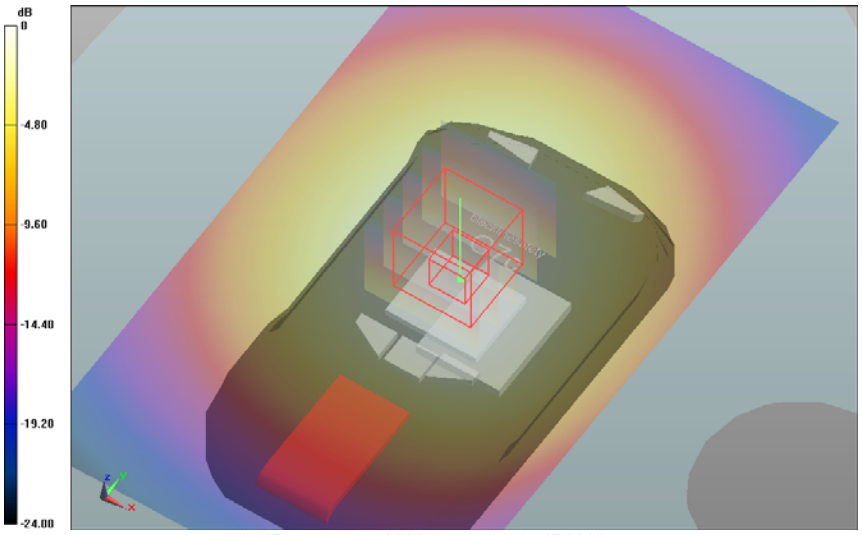
Test Lab: EMCTech Test File: M170217 Head 850 MHz GSM FCC.da52:0

DUT Name: Blackline Safety GSM-3G Transmitter, Type: HMN: G7C, Serial: 3566000154

Configuration: Face Frontal 10mm Spacing Standard Cartridge GPRS Class 8 14-03-17
Communication System: 0 - Generic GSM; Communication System Band: GSM 850 (824.0 - 849.0 MHz);
Frequency: 824.2 MHz, Communication System PAR: 9.19 dB; PMF: 2.88; Duty Cycle: 1:8.30
Medium Parameters used: f=824 MHz; σ = 0.89 S/m; ε_r = 42.9; ρ = 1000.0g/cm^3
Phantom section: Flat Section

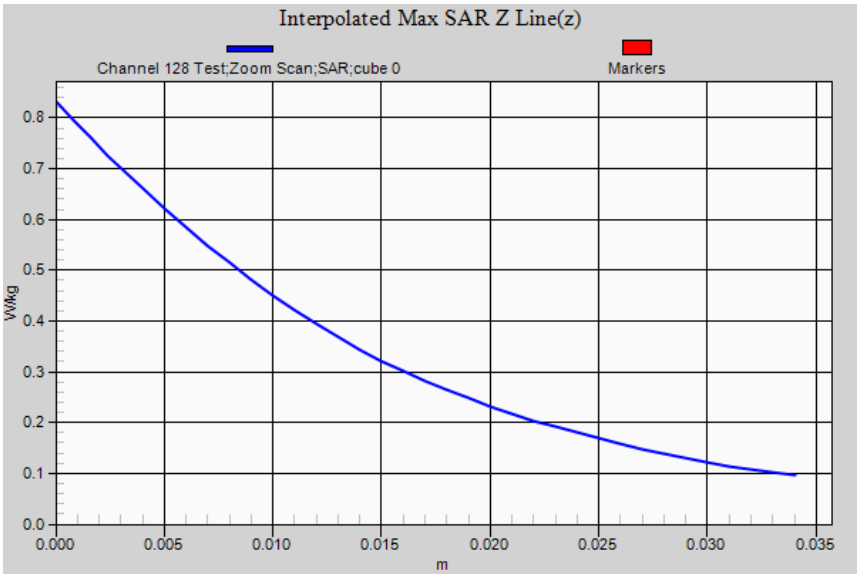
DASY Configuration:
Probe: ET3DV6 - SN1380; ConvF: (6.26,6.26,6.26); Calibrated: 8/12/2016;
Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE3 Sn442; Calibrated: 6/12/2016
Phantom: SAM 12; Type: SAM 12; Serial: 1060
DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

Face Frontal 10mm Spacing Standard Cartridge GPRS Class 8 14-03-17/Channel 128 Test/Area Scan (71x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.703 W/kg
Face Frontal 10mm Spacing Standard Cartridge GPRS Class 8 14-03-17/Channel 128 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 27.880 V/m;
Power Drift = 0.04 dB
Averaged SAR: SAR(1g) = 0.655 W/kg; SAR(10g) = 0.472 W/kg
Maximum value of SAR (interpolated) = 0.831 W/kg



0 dB = 0.703 W/kg = -1.53 dBW/kg

SAR Measurement Plot 23



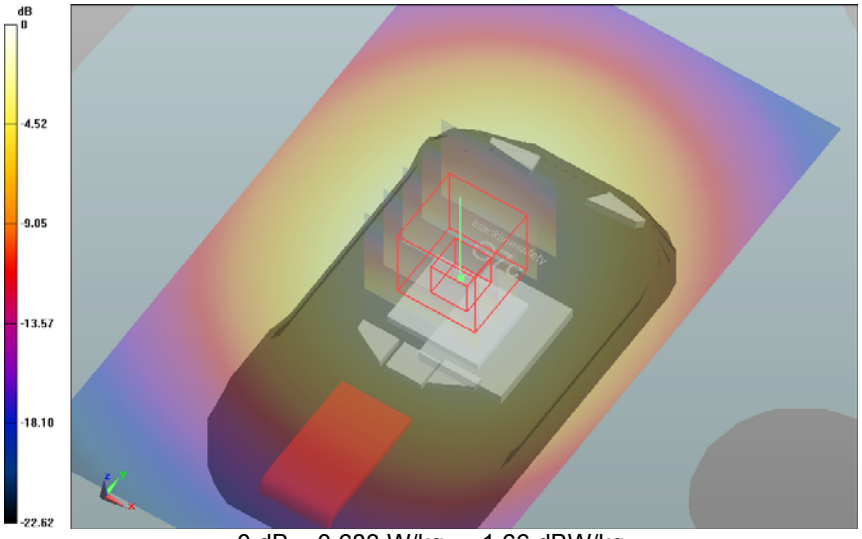
Test Lab: EMCTech Test File: M170217 Head 850 MHz GSM FCC.da52:0

DUT Name: Blackline Safety GSM-3G Transmitter, Type: HMN: G7C, Serial: 3566000154

Configuration: Face Frontal 10mm Spacing Standard Cartridge GPRS Class 8 14-03-17
Communication System: 0 - Generic GSM; Communication System Band: GSM 850 (824.0 - 849.0 MHz);
Frequency: 836.6 MHz, Communication System PAR: 9.19 dB; PMF: 2.88; Duty Cycle: 1:8.30
Medium Parameters used: f=836.5 MHz; σ = 0.91 S/m; ε_r = 42.7; ρ = 1000.0g/cm^3
Phantom section: Flat Section

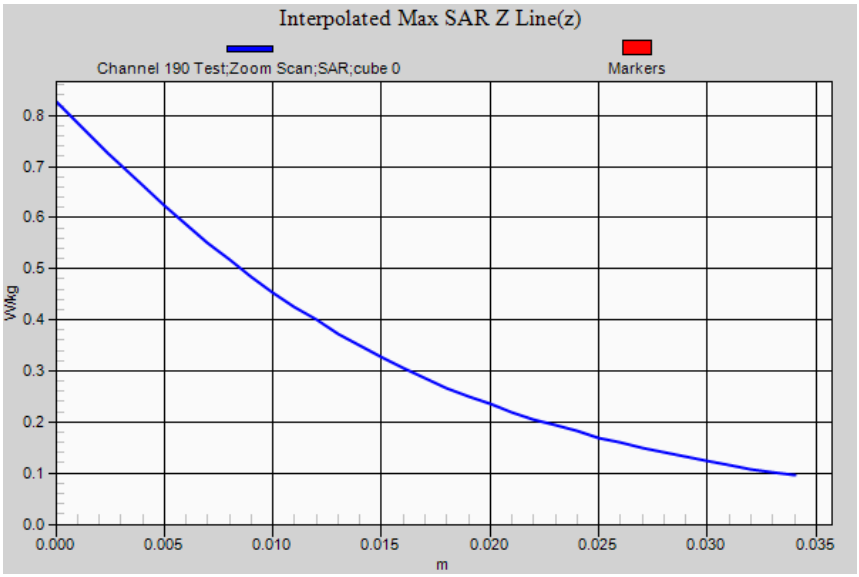
DASY Configuration:
Probe: ET3DV6 - SN1380; ConvF: (6.26,6.26,6.26); Calibrated: 8/12/2016;
Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE3 Sn442; Calibrated: 6/12/2016
Phantom: SAM 12; Type: SAM 12; Serial: 1060
DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

Face Frontal 10mm Spacing Standard Cartridge GPRS Class 8 14-03-17/Channel 190 Test/Area Scan (71x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.683 W/kg
Face Frontal 10mm Spacing Standard Cartridge GPRS Class 8 14-03-17/Channel 190 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 27.447 V/m;
Power Drift = -0.06 dB
Averaged SAR: SAR(1g) = 0.636 W/kg; SAR(10g) = 0.457 W/kg
Maximum value of SAR (interpolated) = 0.827 W/kg



0 dB = 0.683 W/kg = -1.66 dBW/kg

SAR Measurement Plot 24



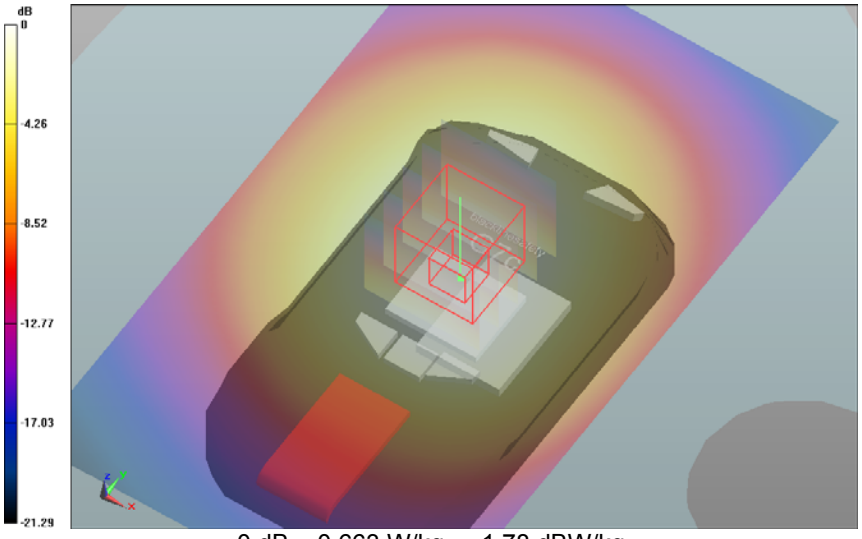
Test Lab: EMCTech Test File: M170217 Head 850 MHz GSM FCC.da52:0

DUT Name: Blackline Safety GSM-3G Transmitter, Type: HMN: G7C, Serial: 3566000154

Configuration: Face Frontal 10mm Spacing Standard Cartridge GPRS Class 8 14-03-17
Communication System: 0 - Generic GSM; Communication System Band: GSM 850 (824.0 - 849.0 MHz);
Frequency: 848.6 MHz, Communication System PAR: 9.19 dB; PMF: 2.88; Duty Cycle: 1:8.30
Medium Parameters used: f=848.5 MHz; σ = 0.92 S/m; ε_r = 42.6; ρ = 1000.0g/cm^3
Phantom section: Flat Section

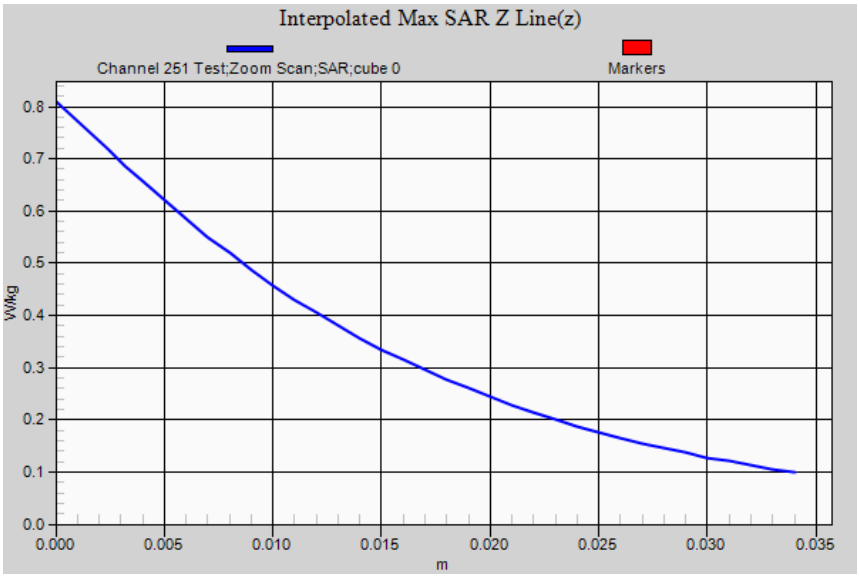
DASY Configuration:
Probe: ET3DV6 - SN1380; ConvF: (6.26,6.26,6.26); Calibrated: 8/12/2016;
Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE3 Sn442; Calibrated: 6/12/2016
Phantom: SAM 12; Type: SAM 12; Serial: 1060
DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

Face Frontal 10mm Spacing Standard Cartridge GPRS Class 8 14-03-17/Channel 251 Test/Area Scan (71x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.663 W/kg
Face Frontal 10mm Spacing Standard Cartridge GPRS Class 8 14-03-17/Channel 251 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 26.841 V/m;
Power Drift = 0.05 dB
Averaged SAR: SAR(1g) = 0.619 W/kg; SAR(10g) = 0.442 W/kg
Maximum value of SAR (interpolated) = 0.809 W/kg



0 dB = 0.663 W/kg = -1.78 dBW/kg

SAR Measurement Plot 25



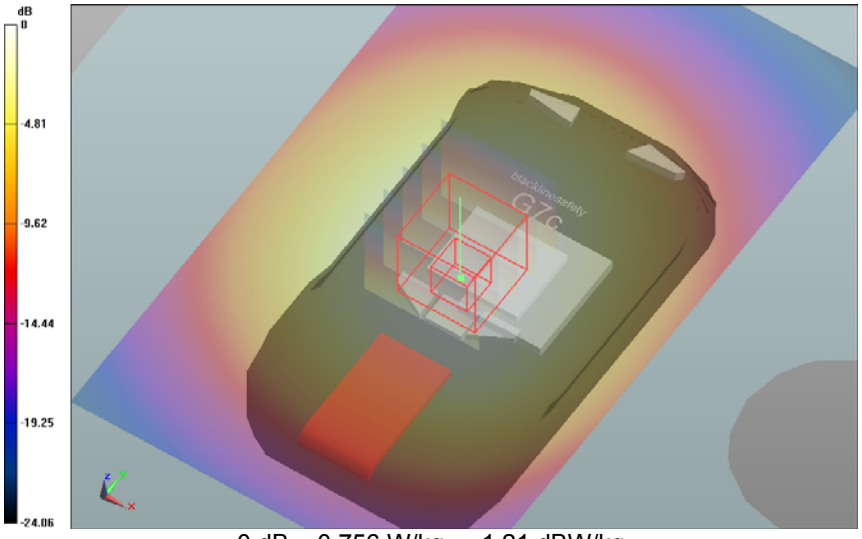
Test Lab: EMCTech Test File: M170217 Head 850 MHz GSM FCC.da52:1

DUT Name: Blackline Safety GSM-3G Transmitter, Type: HMN: G7C, Serial: 3566000154

Configuration: Face Frontal 10mm Spacing Standard Cartridge GPRS Class 8 Variability 14-03-17
Communication System: 0 - Generic GSM; Communication System Band: GSM 850 (824.0 - 849.0 MHz);
Frequency: 824.2 MHz, Communication System PAR: 9.19 dB; PMF: 2.88; Duty Cycle: 1:8.30
Medium Parameters used: f=824 MHz; σ = 0.89 S/m; ε_r = 42.9; ρ = 1000.0g/cm^3
Phantom section: Flat Section

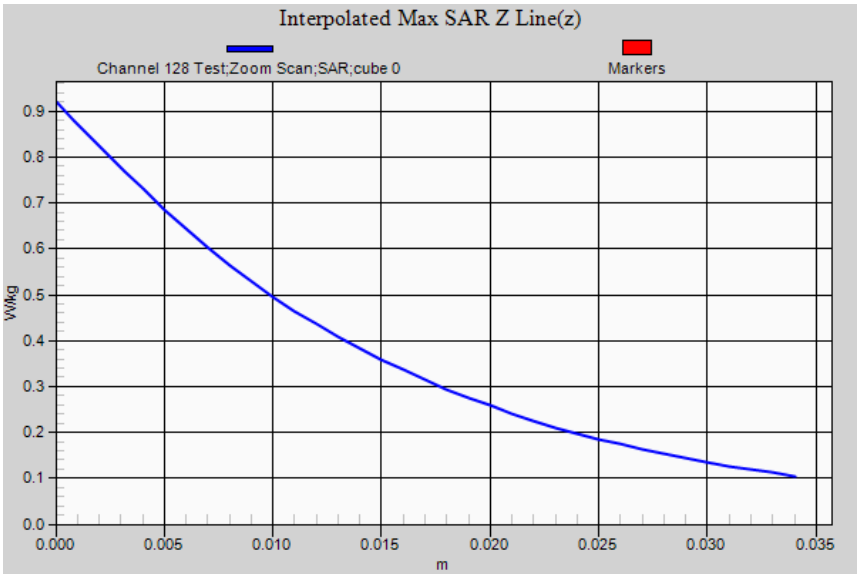
DASY Configuration:
Probe: ET3DV6 - SN1380; ConvF: (6.26,6.26,6.26); Calibrated: 8/12/2016;
Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE3 Sn442; Calibrated: 6/12/2016
Phantom: SAM 12; Type: SAM 12; Serial: 1060
DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

Face Frontal 10mm Spacing Standard Cartridge GPRS Class 8 Variability 14-03-17/Channel 128 Test/Area Scan (71x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.756 W/kg
Face Frontal 10mm Spacing Standard Cartridge GPRS Class 8 Variability 14-03-17/Channel 128 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 30.376 V/m;
Power Drift = -0.07 dB
Averaged SAR: SAR(1g) = 0.708 W/kg; SAR(10g) = 0.509 W/kg
Maximum value of SAR (interpolated) = 0.920 W/kg



0 dB = 0.756 W/kg = -1.21 dBW/kg

SAR Measurement Plot 26



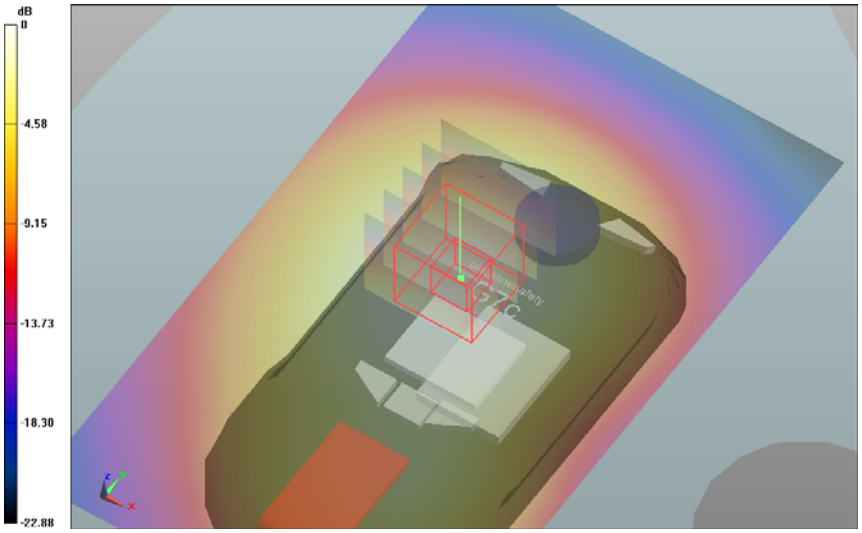
Test Lab: EMCTech Test File: M170217 Head 850 MHz GSM FCC.da52:2

DUT Name: Blackline Safety GSM-3G Transmitter, Type: HMN: G7C, Serial: 3566000154

Configuration: Face Frontal 10mm Spacing H2S Cartridge GPRS Class 8 14-03-17
Communication System: 0 - Generic GSM; Communication System Band: GSM 850 (824.0 - 849.0 MHz);
Frequency: 824.2 MHz, Communication System PAR: 9.19 dB; PMF: 2.88; Duty Cycle: 1:8.30
Medium Parameters used: f=824 MHz; σ = 0.89 S/m; ε_r = 42.9; ρ = 1000.0g/cm^3
Phantom section: Flat Section

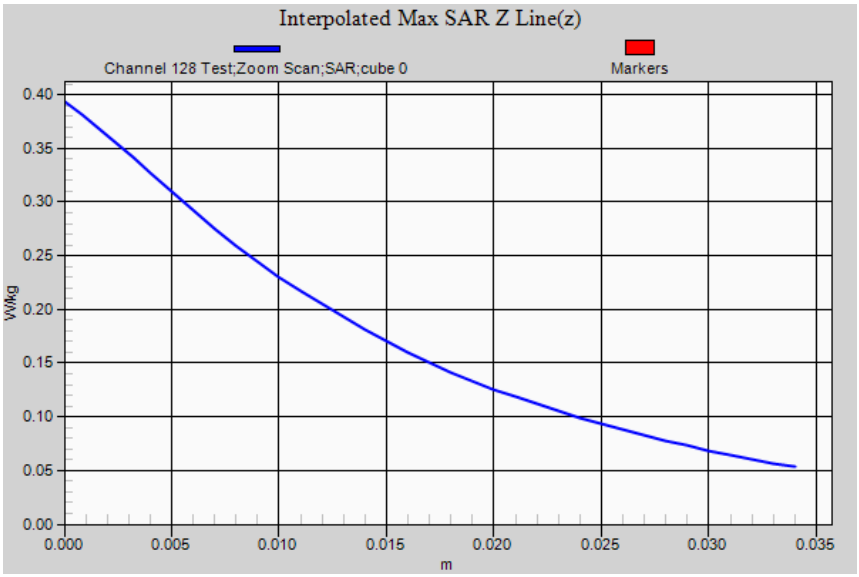
DASY Configuration:
Probe: ET3DV6 - SN1380; ConvF: (6.26,6.26,6.26); Calibrated: 8/12/2016;
Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE3 Sn442; Calibrated: 6/12/2016
Phantom: SAM 12; Type: SAM 12; Serial: 1060
DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

Face Frontal 10mm Spacing H2S Cartridge GPRS Class 8 14-03-17/Channel 128 Test/Area Scan (71x121x1):
Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.328 W/kg
Face Frontal 10mm Spacing H2S Cartridge GPRS Class 8 14-03-17/Channel 128 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 17.354 V/m;
Power Drift = -0.01 dB
Averaged SAR: SAR(1g) = 0.306 W/kg; SAR(10g) = 0.218 W/kg
Maximum value of SAR (interpolated) = 0.393 W/kg



0 dB = 0.328 W/kg = -4.84 dBW/kg

SAR Measurement Plot 27



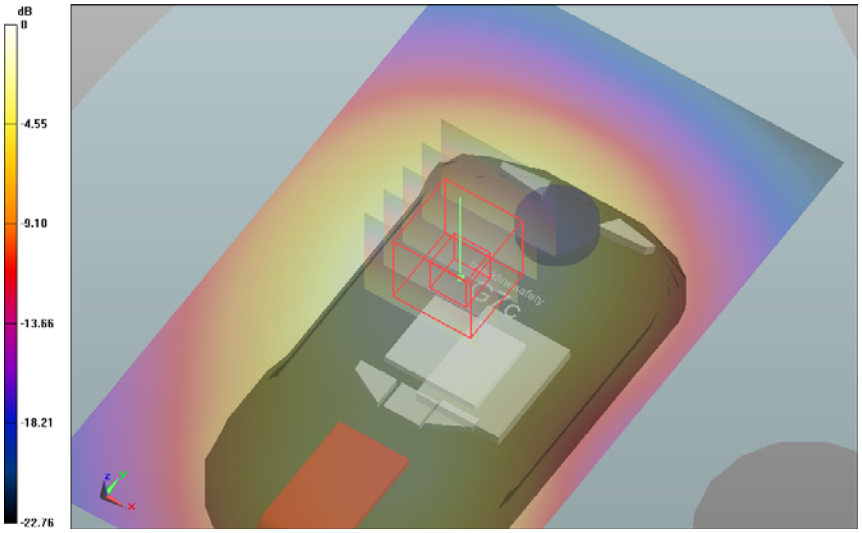
Test Lab: EMCTech Test File: M170217 Head 850 MHz GSM FCC.da52:2

DUT Name: Blackline Safety GSM-3G Transmitter, Type: HMN: G7C, Serial: 3566000154

Configuration: Face Frontal 10mm Spacing H2S Cartridge GPRS Class 8 14-03-17
Communication System: 0 - Generic GSM; Communication System Band: GSM 850 (824.0 - 849.0 MHz);
Frequency: 836.6 MHz, Communication System PAR: 9.19 dB; PMF: 2.88; Duty Cycle: 1:8.30
Medium Parameters used: f=836.5 MHz; σ = 0.91 S/m; ε_r = 42.7; ρ = 1000.0g/cm^3
Phantom section: Flat Section

DASY Configuration:
Probe: ET3DV6 - SN1380; ConvF: (6.26,6.26,6.26); Calibrated: 8/12/2016;
Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE3 Sn442; Calibrated: 6/12/2016
Phantom: SAM 12; Type: SAM 12; Serial: 1060
DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

Face Frontal 10mm Spacing H2S Cartridge GPRS Class 8 14-03-17/Channel 190 Test/Area Scan (71x121x1):
Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.302 W/kg
Face Frontal 10mm Spacing H2S Cartridge GPRS Class 8 14-03-17/Channel 190 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 16.037 V/m;
Power Drift = -0.02 dB
Averaged SAR: SAR(1g) = 0.278 W/kg; SAR(10g) = 0.197 W/kg
Maximum value of SAR (interpolated) = 0.359 W/kg



0 dB = 0.302 W/kg = -5.20 dBW/kg

SAR Measurement Plot 28