

Test Lab: EMCTech Test File: M170217 Body 1900 MHz 3G FCC.da52:0

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

Configuration: Body Worn Belt Clip Standard Cartridge 16-03-17

Communication System: 0 - WCDMA - UMTS; Communication System Band: Band 2 1850 MHz; Frequency: 1908 MHz, Communication System PAR: 0.00 dB; PMF: 1.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=1907.38$ MHz; $\sigma = 1.55$ S/m; $\epsilon_r = 52.1$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (4.72,4.72,4.72); 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)

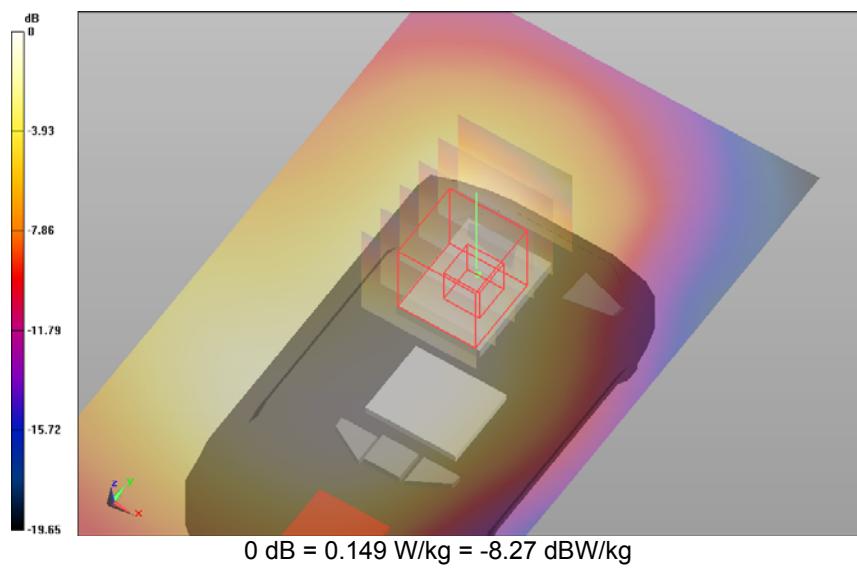
Body Worn Belt Clip Standard Cartridge 16-03-17/Channel 9538 Test/Area Scan (71x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.149 W/kg

Body Worn Belt Clip Standard Cartridge 16-03-17/Channel 9538 Test/Zoom Scan (21x26x36)/Cube 0:

Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 9.078 V/m; Power Drift = -0.03 dB

Averaged SAR: SAR(1g) = 0.138 W/kg; SAR(10g) = 0.089 W/kg

Maximum value of SAR (interpolated) = 0.197 W/kg

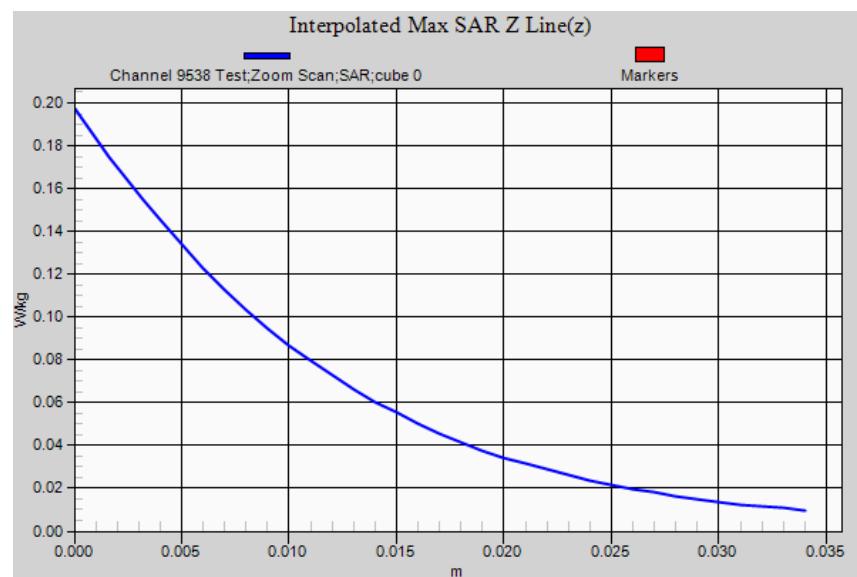


SAR Measurement Plot 57



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Test Lab: EMCTech Test File: M170217 Body 1900 MHz 3G FCC.da52:1

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

Configuration: Body Worn Belt Clip H2S Cartridge 16-03-17

Communication System: 0 - WCDMA - UMTS; Communication System Band: Band 2 1850 MHz; Frequency: 1852

MHz, Communication System PAR: 0.00 dB; PMF: 1.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=1852.25$ MHz; $\sigma = 1.52$ S/m; $\epsilon_r = 52.4$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (4.72,4.72,4.72); 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

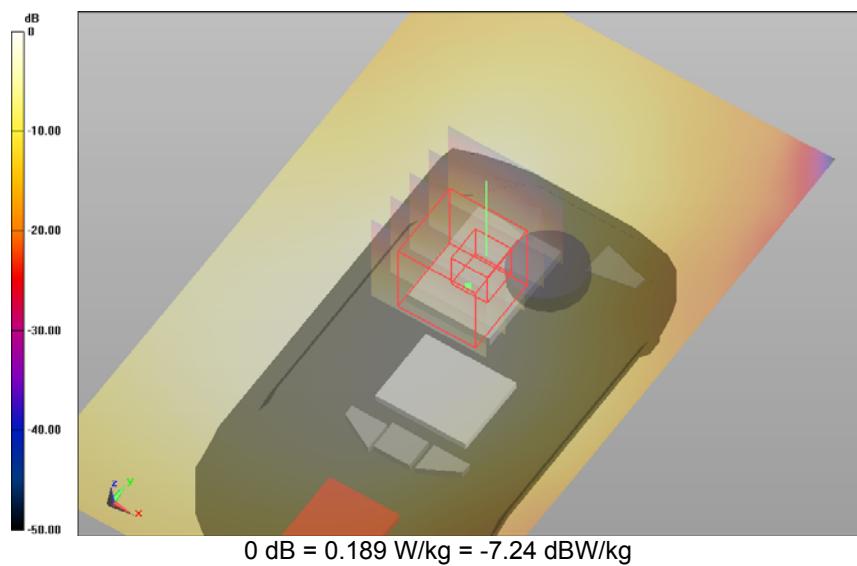
DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

Body Worn Belt Clip H2S Cartridge 16-03-17/Channel 9262 Test/Area Scan (71x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.189 W/kg

Body Worn Belt Clip H2S Cartridge 16-03-17/Channel 9262 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 10.018 V/m; Power Drift = 0.09 dB

Averaged SAR: SAR(1g) = 0.178 W/kg; SAR(10g) = 0.112 W/kg

Maximum value of SAR (interpolated) = 0.242 W/kg

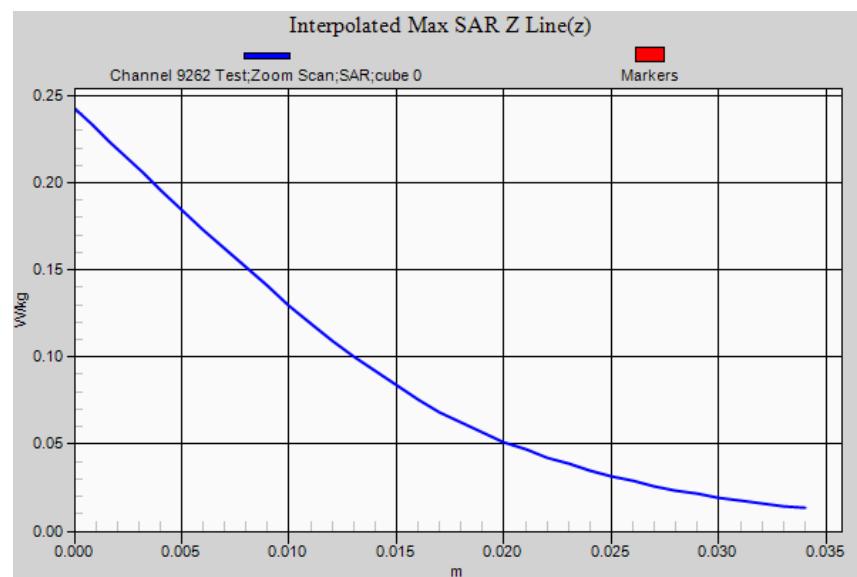


SAR Measurement Plot 58



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Test Lab: EMCTech Test File: M170217 Body 1900 MHz 3G FCC.da52:1

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

Configuration: Body Worn Belt Clip H2S Cartridge 16-03-17

Communication System: 0 - WCDMA - UMTS; Communication System Band: Band 2 1850 MHz; Frequency: 1880 MHz, Communication System PAR: 0.00 dB; PMF: 1.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=1880.25$ MHz; $\sigma = 1.54$ S/m; $\epsilon_r = 52.3$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (4.72,4.72,4.72); 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

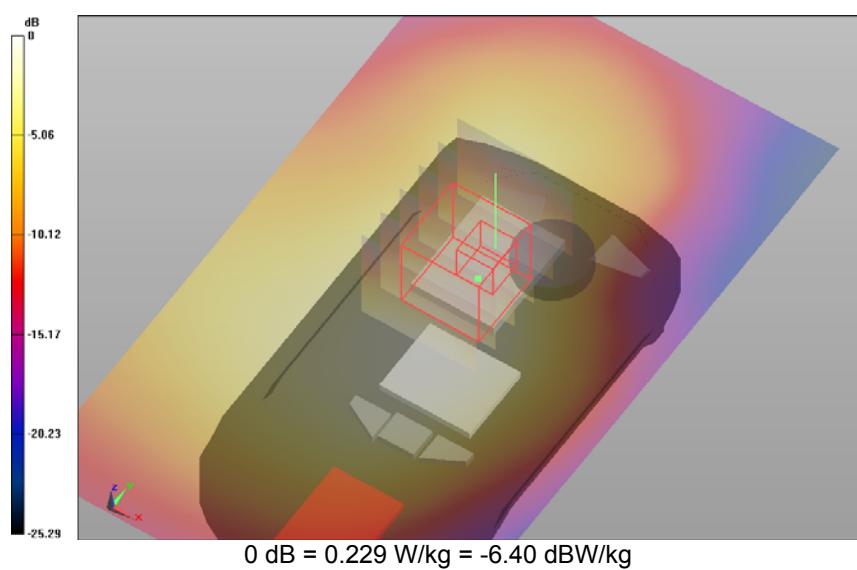
DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

Body Worn Belt Clip H2S Cartridge 16-03-17/Channel 9400 Test/Area Scan (71x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.229 W/kg

Body Worn Belt Clip H2S Cartridge 16-03-17/Channel 9400 Test/Zoom Scan (21x26x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 10.753 V/m; Power Drift = -0.02 dB

Averaged SAR: SAR(1g) = 0.211 W/kg; SAR(10g) = 0.132 W/kg

Maximum value of SAR (interpolated) = 0.289 W/kg

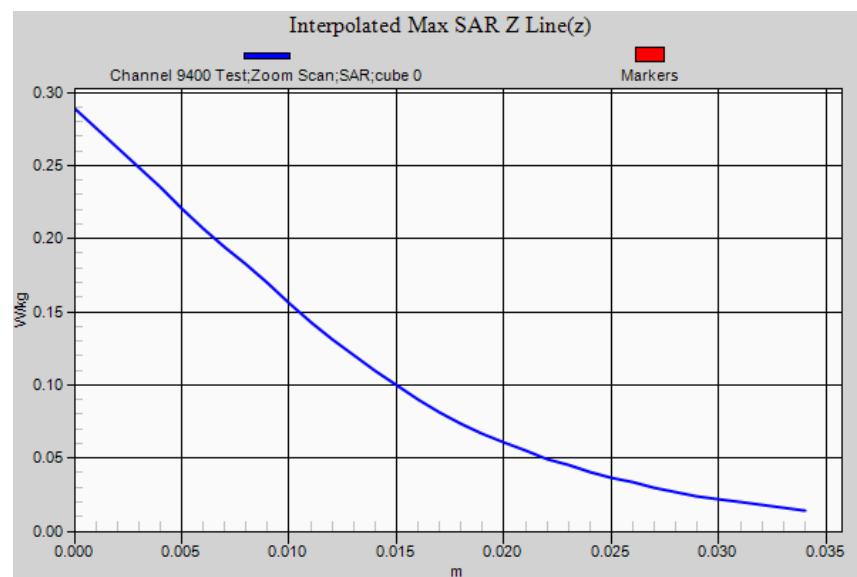


SAR Measurement Plot 59



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Test Lab: EMCTech Test File: M170217 Body 1900 MHz 3G FCC.da52:1

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

Configuration: Body Worn Belt Clip H2S Cartridge 16-03-17

Communication System: 0 - WCDMA - UMTS; Communication System Band: Band 2 1850 MHz; Frequency: 1908

MHz, Communication System PAR: 0.00 dB; PMF: 1.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=1907.38$ MHz; $\sigma = 1.55$ S/m; $\epsilon_r = 52.1$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (4.72,4.72,4.72); 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

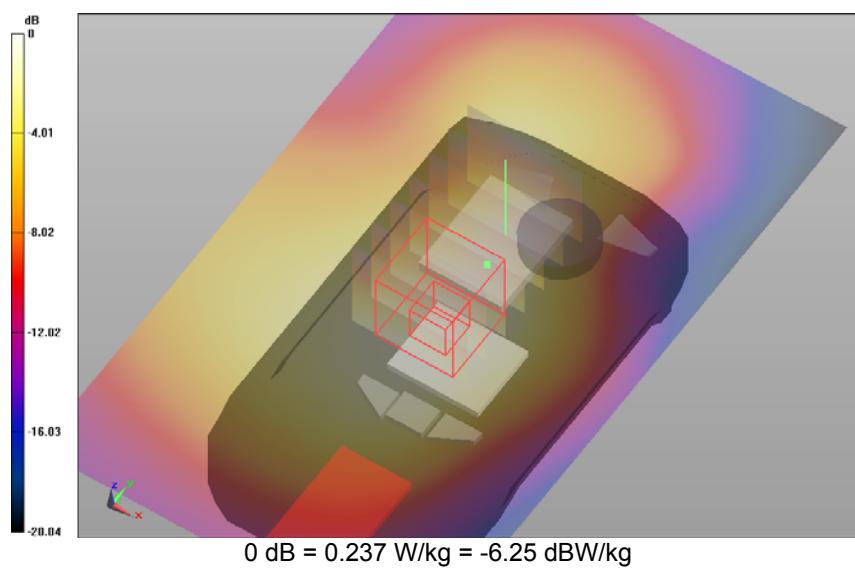
DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

Body Worn Belt Clip H2S Cartridge 16-03-17/Channel 9538 Test/Area Scan (71x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.237 W/kg

Body Worn Belt Clip H2S Cartridge 16-03-17/Channel 9538 Test/Zoom Scan (21x31x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 11.148 V/m; Power Drift = -0.08 dB

Averaged SAR: SAR(1g) = 0.210 W/kg; SAR(10g) = 0.139 W/kg

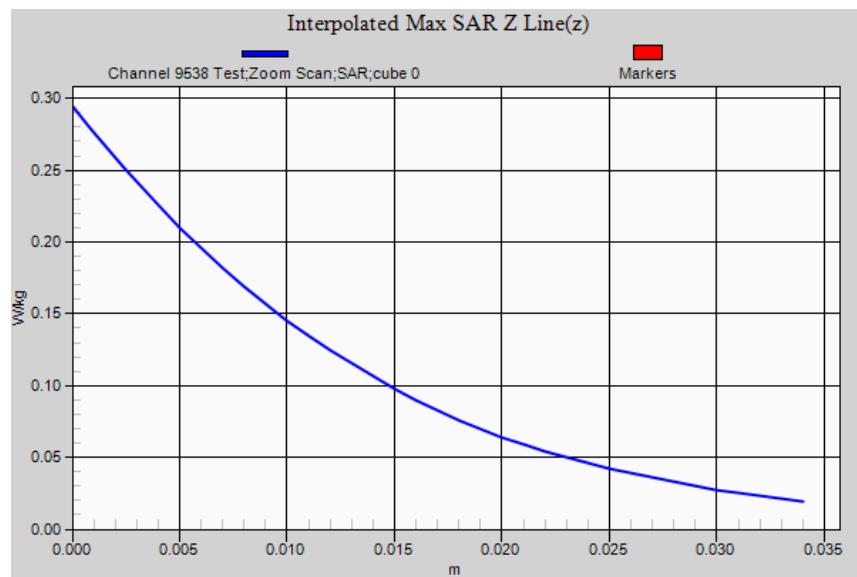
Maximum value of SAR (interpolated) = 0.294 W/kg



Accreditation No. 5262

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Test Lab: EMCTech Test File: M170217 Body 1900 MHz 3G FCC.da52:2

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

Configuration: Body Worn Belt Clip O2 CO H2S LEL Cartridge 16-03-17

Communication System: 0 - WCDMA - UMTS; Communication System Band: Band 2 1850 MHz; Frequency: 1852 MHz, Communication System PAR: 0.00 dB; PMF: 1.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=1852.25$ MHz; $\sigma = 1.52$ S/m; $\epsilon_r = 52.4$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (4.72,4.72,4.72); 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)

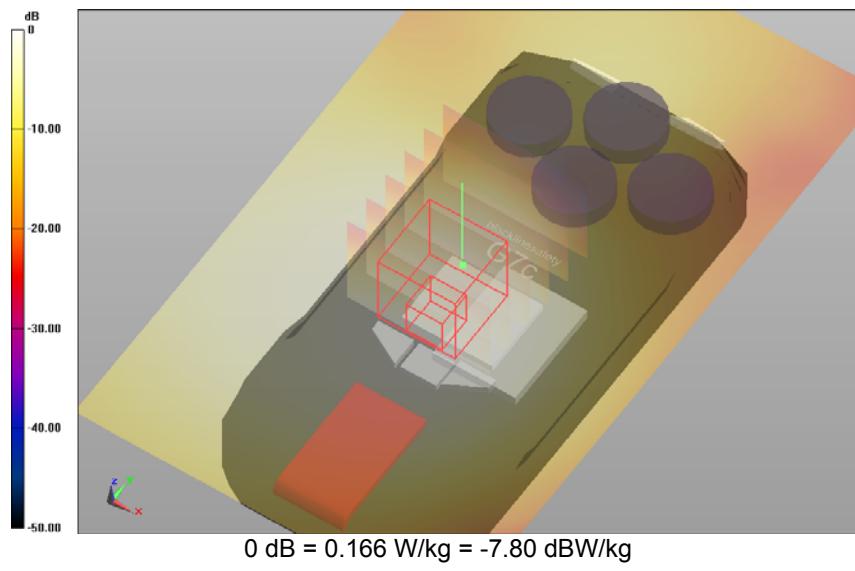
Body Worn Belt Clip O2 CO H2S LEL Cartridge 16-03-17/Channel 9262 Test/Area Scan (71x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.166 W/kg

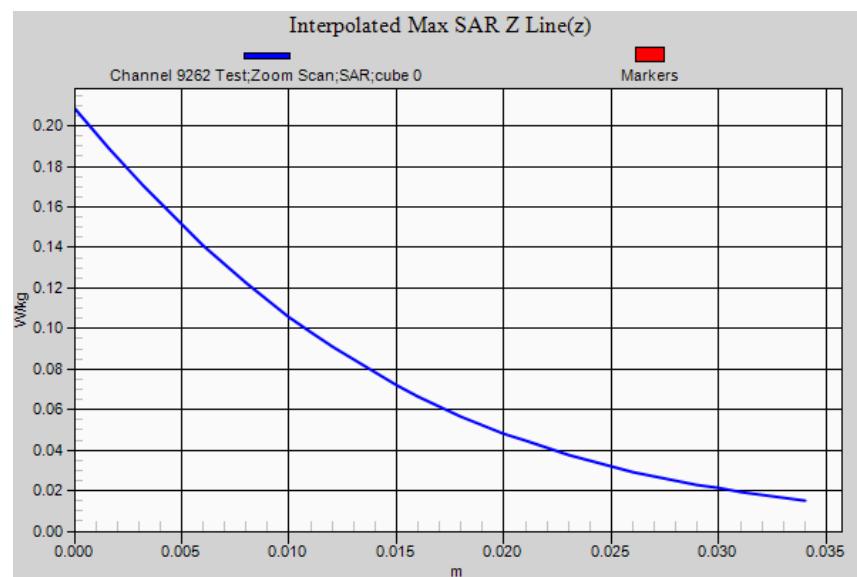
Body Worn Belt Clip O2 CO H2S LEL Cartridge 16-03-17/Channel 9262 Test/Zoom Scan (26x26x36)/Cube 0:

Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 10.448 V/m; Power Drift = -0.04 dB

Averaged SAR: SAR(1g) = 0.151 W/kg; SAR(10g) = 0.103 W/kg

Maximum value of SAR (interpolated) = 0.208 W/kg





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Test Lab: EMCTech Test File: M170217 Body 1900 MHz 3G FCC.da52:2

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

Configuration: Body Worn Belt Clip O2 CO H2S LEL Cartridge 16-03-17

Communication System: 0 - WCDMA - UMTS; Communication System Band: Band 2 1850 MHz; Frequency: 1880 MHz, Communication System PAR: 0.00 dB; PMF: 1.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=1880.25$ MHz; $\sigma = 1.54$ S/m; $\epsilon_r = 52.3$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (4.72,4.72,4.72); 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)

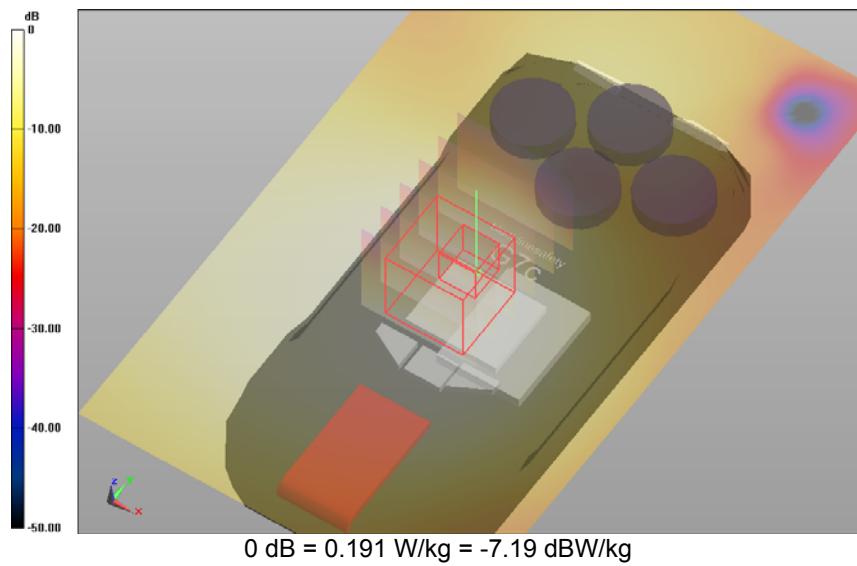
Body Worn Belt Clip O2 CO H2S LEL Cartridge 16-03-17/Channel 9400 Test/Area Scan (71x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.191 W/kg

Body Worn Belt Clip O2 CO H2S LEL Cartridge 16-03-17/Channel 9400 Test/Zoom Scan (21x26x36)/Cube 0:

Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 10.881 V/m; Power Drift = -0.00 dB

Averaged SAR: SAR(1g) = 0.171 W/kg; SAR(10g) = 0.116 W/kg

Maximum value of SAR (interpolated) = 0.237 W/kg

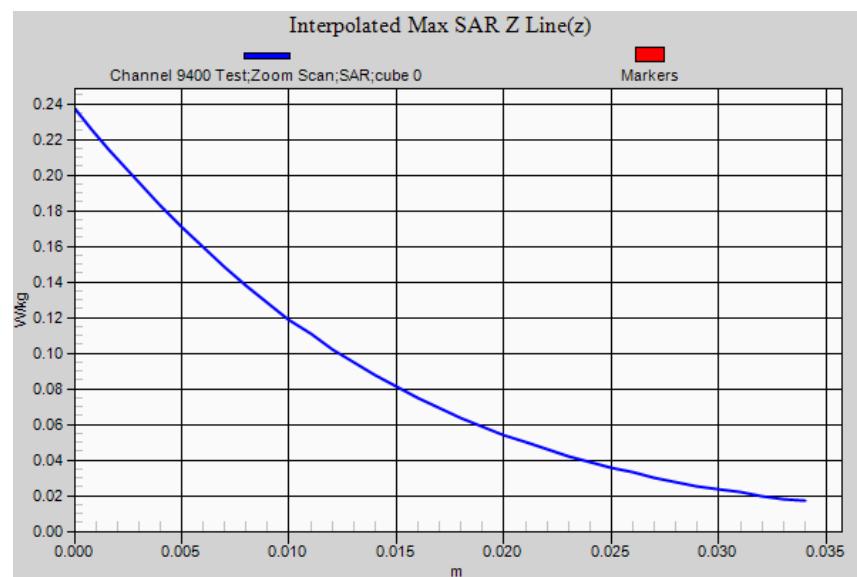


SAR Measurement Plot 62



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Test Lab: EMCTech

Test File: M170217 Body 1900 MHz 3G FCC.da52:2

DUT Name: Blackline Safety GSM-3G Transmitter, Type: HMN: G7C, Serial: 3568000104**Configuration: Body Worn Belt Clip O2 CO H2S LEL Cartridge 16-03-17**

Communication System: 0 - WCDMA - UMTS; Communication System Band: Band 2 1850 MHz; Frequency: 1908 MHz, Communication System PAR: 0.00 dB; PMF: 1.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=1907.38$ MHz; $\sigma = 1.55$ S/m; $\epsilon_r = 52.1$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (4.72,4.72,4.72); 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

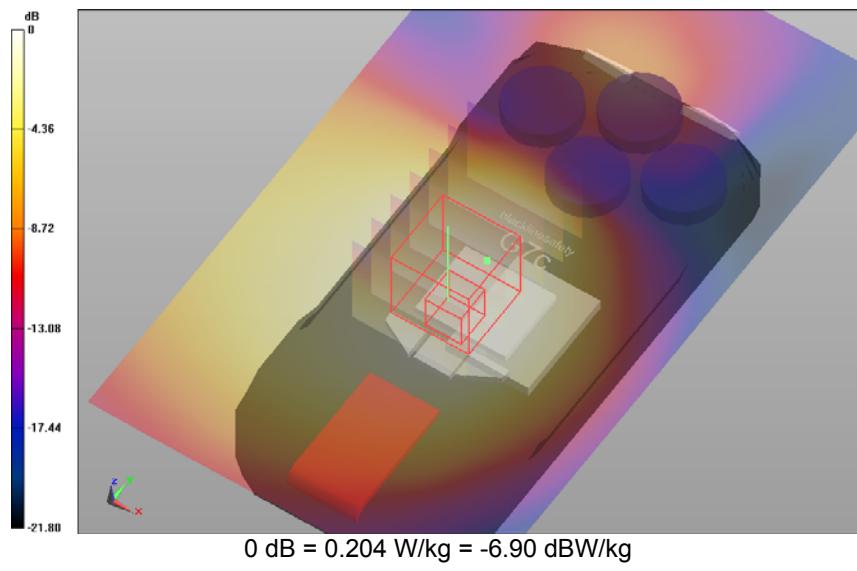
DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

Body Worn Belt Clip O2 CO H2S LEL Cartridge 16-03-17/Channel 9538 Test/Area Scan (71x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.204 W/kg**Body Worn Belt Clip O2 CO H2S LEL Cartridge 16-03-17/Channel 9538 Test/Zoom Scan (21x31x36)/Cube 0:**

Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 11.212 V/m; Power Drift = -0.01 dB

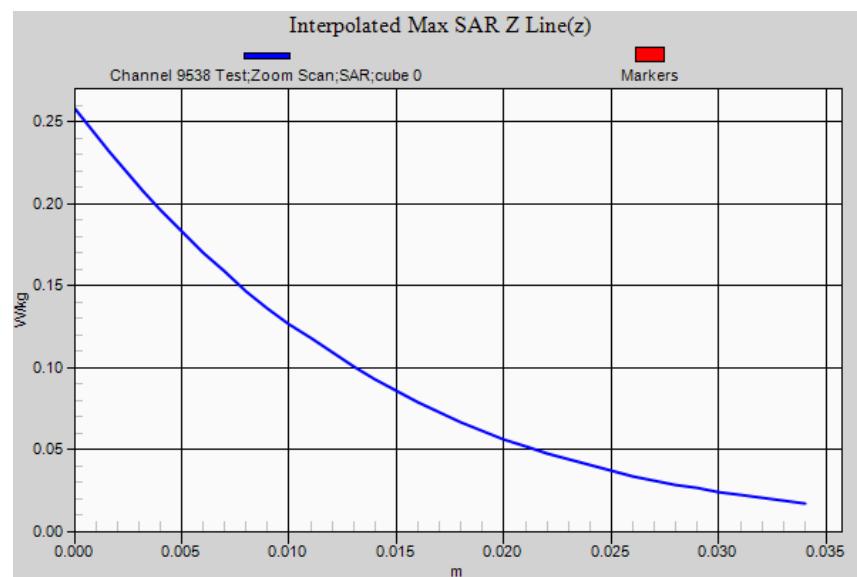
Averaged SAR: SAR(1g) = 0.184 W/kg; SAR(10g) = 0.124 W/kg

Maximum value of SAR (interpolated) = 0.258 W/kg



SAR Measurement Plot 63





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Test Lab: EMCTech Test File: M170217 Body 1900 MHz 3G FCC.da52:3

DUT Name: Dipole 1950 MHz, Type: DV1950V3, Serial: 1113

Configuration: System Check 16-03-17

Communication System: 0 - CW (0); Communication System Band: 1950 MHz; Frequency: 1950 MHz,

Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=1950.25$ MHz; $\sigma = 1.57$ S/m; $\epsilon_r = 52.0$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (4.76,4.76,4.76); 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

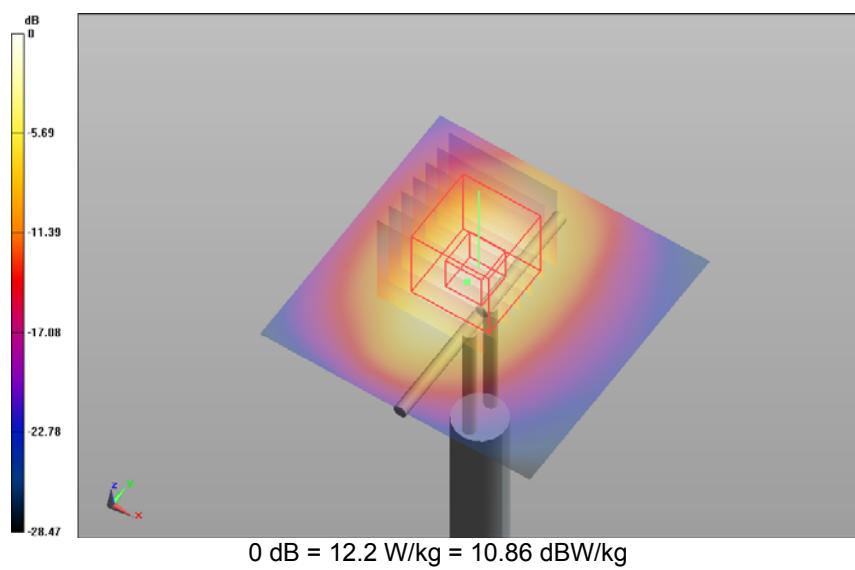
DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

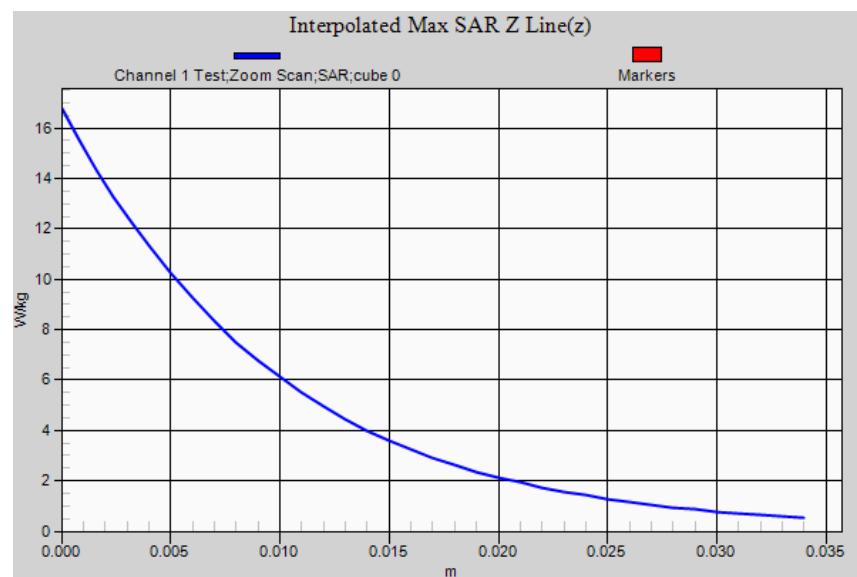
System Check 16-03-17/Channel 1 Test/Area Scan (51x51x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 12.200 W/kg

System Check 16-03-17/Channel 1 Test/Zoom Scan (31x31x36)/Cube 0: Interpolated grid: dx=1.0 mm, dy=1.0 mm, dz=1.0 mm; Reference Value = 90.517 V/m; Power Drift = -0.02 dB

Averaged SAR: SAR(1g) = 9.930 W/kg; SAR(10g) = 5.250 W/kg

Maximum value of SAR (interpolated) = 16.800 W/kg





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Test Lab: EMCTech

Test File: M170217 Head 1900 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 08-03-17**

Communication System: 0 - Generic GSM; Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz); Frequency: 1850 MHz, Communication System PAR: 9.19 dB; PMF: 2.88; Duty Cycle: 1:8.30

Medium Parameters used: $f=1850.5$ MHz; $\sigma = 1.41$ S/m; $\epsilon_r = 39.8$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (5.18,5.18,5.18); 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 22; Type: SAM 22; Serial: 1260

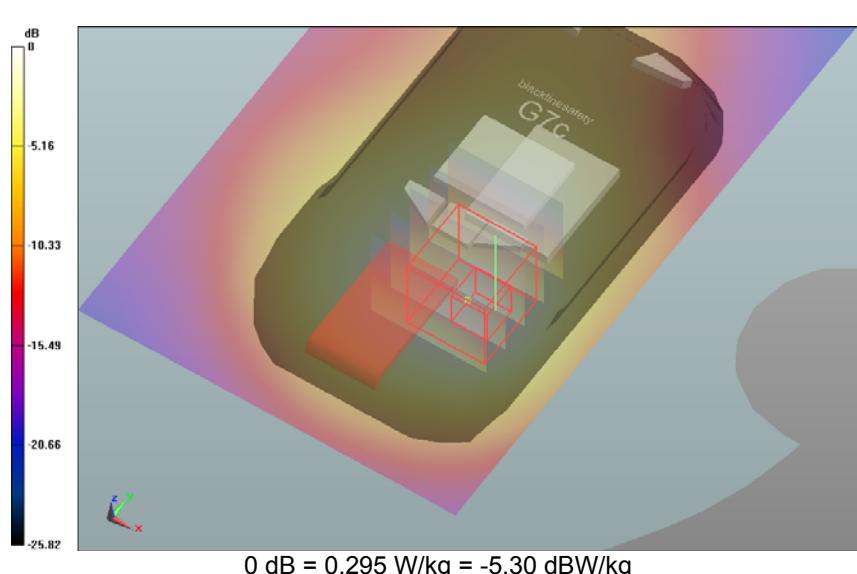
DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

Face Frontal 10mm Spacing Standard Cartridge GPRS Class 8 08-03-17/Channel 512 Test/Area Scan (71x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.295 W/kg

Face Frontal 10mm Spacing Standard Cartridge GPRS Class 8 08-03-17/Channel 512 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 10.210 V/m; Power Drift = -0.02 dB

Averaged SAR: SAR(1g) = 0.273 W/kg; SAR(10g) = 0.157 W/kg

Maximum value of SAR (interpolated) = 0.479 W/kg

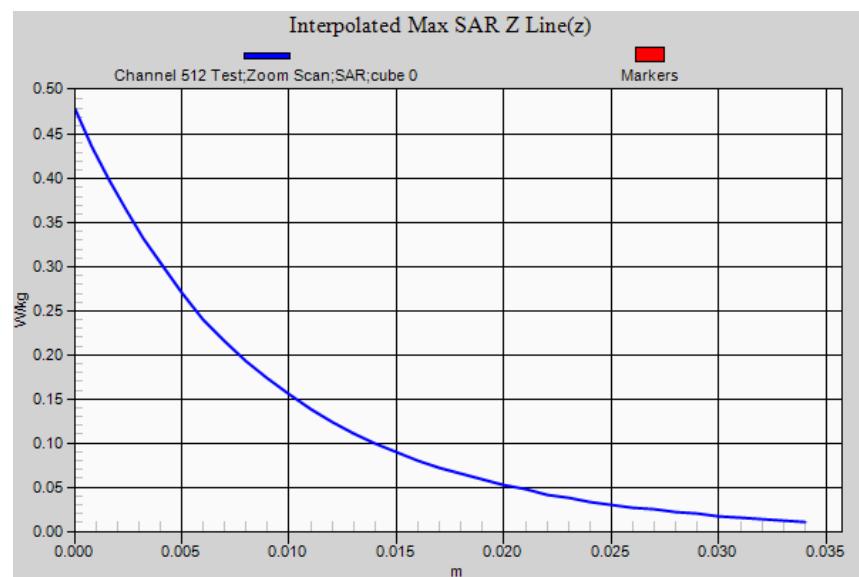


SAR Measurement Plot 65



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Test Lab: EMCTech

Test File: M170217 Head 1900 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 08-03-17**

Communication System: 0 - Generic GSM; Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz);

Frequency: 1880 MHz, Communication System PAR: 9.19 dB; PMF: 2.88; Duty Cycle: 1:8.30

Medium Parameters used: $f=1880.25$ MHz; $\sigma = 1.43$ S/m; $\epsilon_r = 39.8$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (5.18,5.18,5.18); Calibrated: 8/12/2016;

Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))

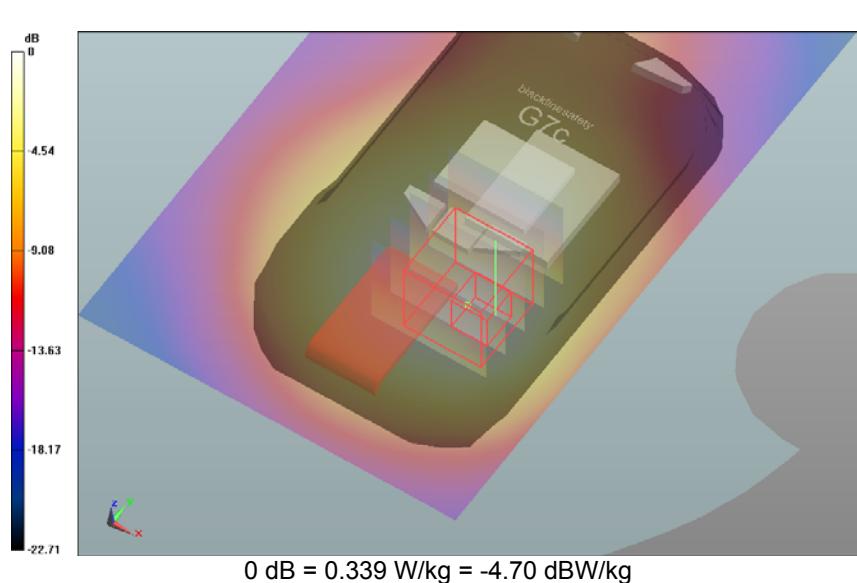
Electronics: DAE3 Sn442; Calibrated: 6/12/2016

Phantom: SAM 22; Type: SAM 22; Serial: 1260

DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

Face Frontal 10mm Spacing Standard Cartridge GPRS Class 8 08-03-17/Channel 661 Test/Area Scan (71x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.339 W/kg**Face Frontal 10mm Spacing Standard Cartridge GPRS Class 8 08-03-17/Channel 661 Test/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 11.148 V/m; Power Drift = 0.03 dB**Averaged SAR: SAR(1g) = 0.313 W/kg; SAR(10g) = 0.181 W/kg**

Maximum value of SAR (interpolated) = 0.547 W/kg

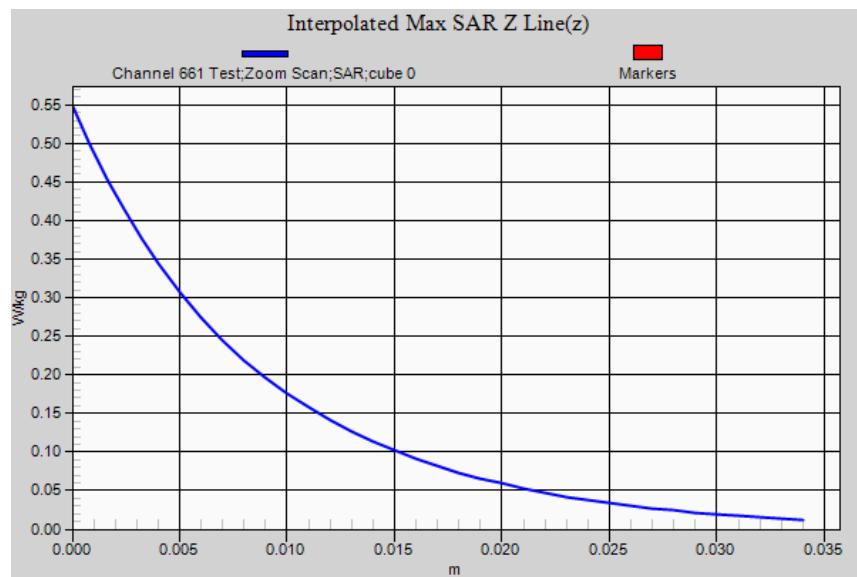


SAR Measurement Plot 66



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Test Lab: EMCTech

Test File: M170217 Head 1900 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 08-03-17**

Communication System: 0 - Generic GSM; Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz);

Frequency: 1910 MHz, Communication System PAR: 9.19 dB; PMF: 2.88; Duty Cycle: 1:8.30

Medium Parameters used: $f=1910$ MHz; $\sigma = 1.45$ S/m; $\epsilon_r = 39.7$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (5.18,5.18,5.18); Calibrated: 8/12/2016;

Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))

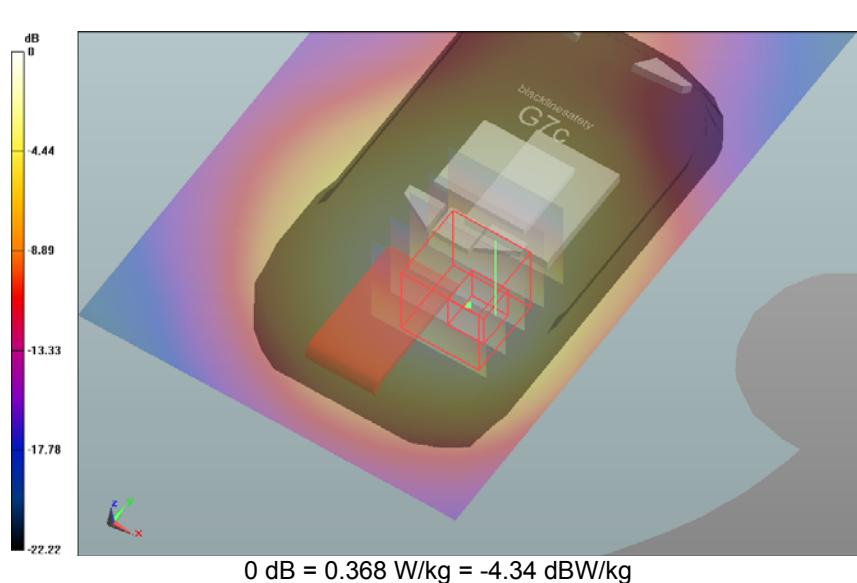
Electronics: DAE3 Sn442; Calibrated: 6/12/2016

Phantom: SAM 22; Type: SAM 22; Serial: 1260

DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

Face Frontal 10mm Spacing Standard Cartridge GPRS Class 8 08-03-17/Channel 810 Test/Area Scan (71x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.368 W/kg**Face Frontal 10mm Spacing Standard Cartridge GPRS Class 8 08-03-17/Channel 810 Test/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 11.958 V/m; Power Drift = 0.01 dB**Averaged SAR: SAR(1g) = 0.341 W/kg; SAR(10g) = 0.197 W/kg**

Maximum value of SAR (interpolated) = 0.604 W/kg

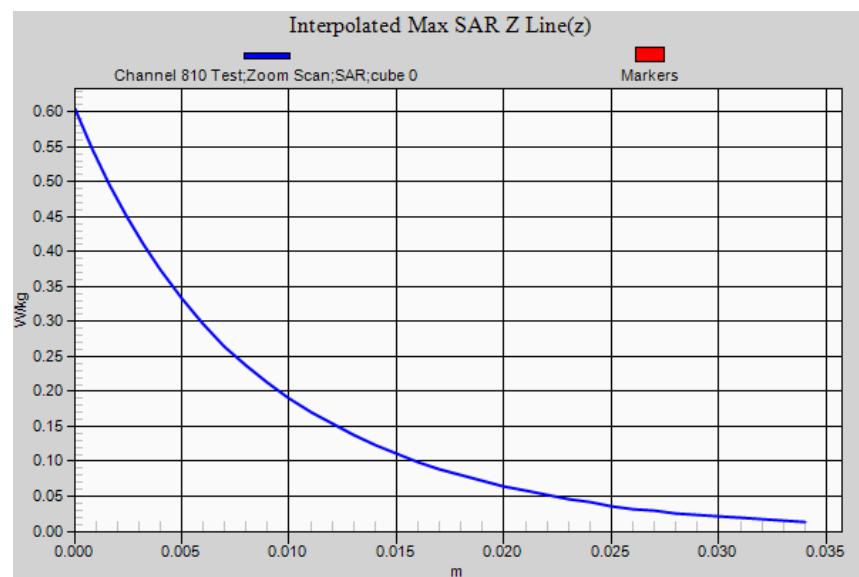


SAR Measurement Plot 67



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Test Lab: EMCTech

Test File: M170217 Head 1900 MHz GSM FCC.da52:1

DUT Name: Blackline Safety GSM-3G Transmitter, Type: HMN: G7C, Serial: 3566000154**Configuration: Face Frontal 10mm Spacing H2S Cartridge GPRS Class 8 08-03-17**

Communication System: 0 - Generic GSM; Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz);

Frequency: 1850 MHz, Communication System PAR: 9.19 dB; PMF: 2.88; Duty Cycle: 1:8.30

Medium Parameters used: $f=1850.5$ MHz; $\sigma = 1.41$ S/m; $\epsilon_r = 39.8$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (5.18,5.18,5.18); 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 22; Type: SAM 22; Serial: 1260

DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

Face Frontal 10mm Spacing H2S Cartridge GPRS Class 8 08-03-17/Channel 512 Test/Area Scan (71x121x1):

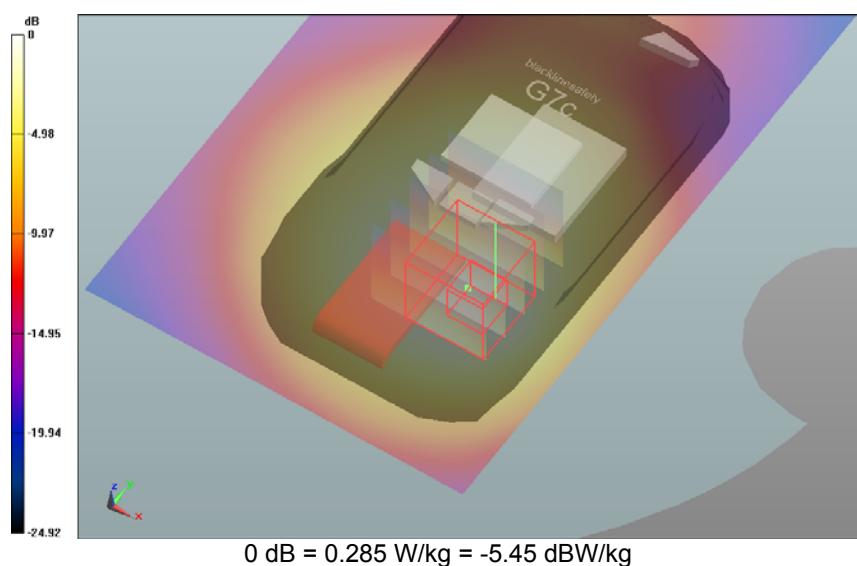
Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.285 W/kg

Face Frontal 10mm Spacing H2S Cartridge GPRS Class 8 08-03-17/Channel 512 Test/Zoom Scan

(21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 10.242 V/m;

Power Drift = 0.01 dB**Averaged SAR: SAR(1g) = 0.265 W/kg; SAR(10g) = 0.151 W/kg**

Maximum value of SAR (interpolated) = 0.466 W/kg

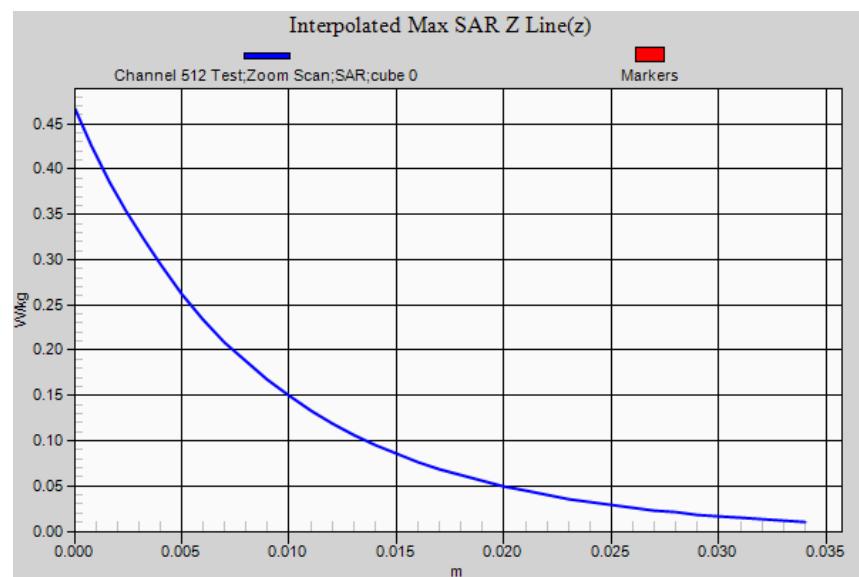


SAR Measurement Plot 68



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Test Lab: EMCTech Test File: M170217 Head 1900 MHz GSM FCC.da52:1

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

Configuration: Face Frontal 10mm Spacing H2S Cartridge GPRS Class 8 08-03-17

Communication System: 0 - Generic GSM; Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz);

Frequency: 1880 MHz, Communication System PAR: 9.19 dB; PMF: 2.88; Duty Cycle: 1:8.30

Medium Parameters used: $f=1880.25$ MHz; $\sigma = 1.43$ S/m; $\epsilon_r = 39.8$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (5.18,5.18,5.18); 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 22; Type: SAM 22; Serial: 1260

DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

Face Frontal 10mm Spacing H2S Cartridge GPRS Class 8 08-03-17/Channel 661 Test/Area Scan (71x121x1):

Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.322 W/kg

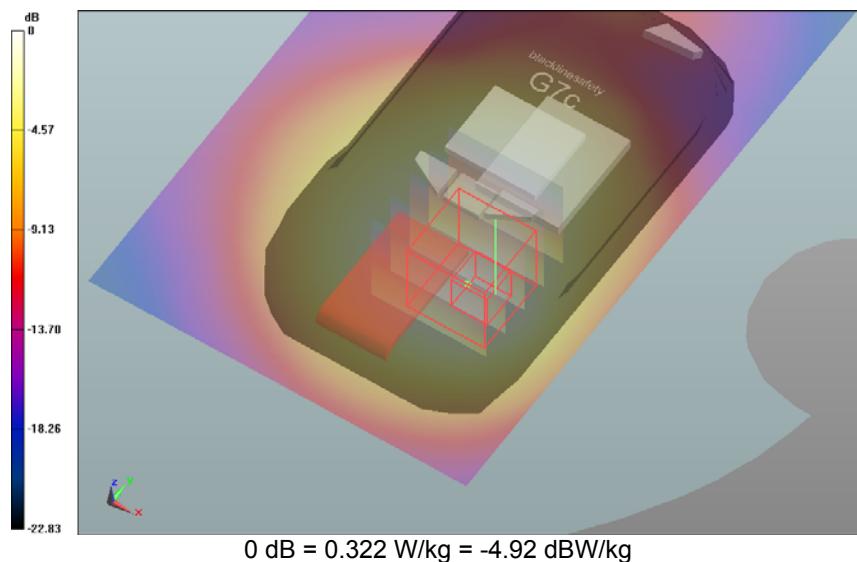
Face Frontal 10mm Spacing H2S Cartridge GPRS Class 8 08-03-17/Channel 661 Test/Zoom Scan

(21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 11.185 V/m;

Power Drift = -0.01 dB

Averaged SAR: SAR(1g) = 0.299 W/kg; SAR(10g) = 0.169 W/kg

Maximum value of SAR (interpolated) = 0.541 W/kg

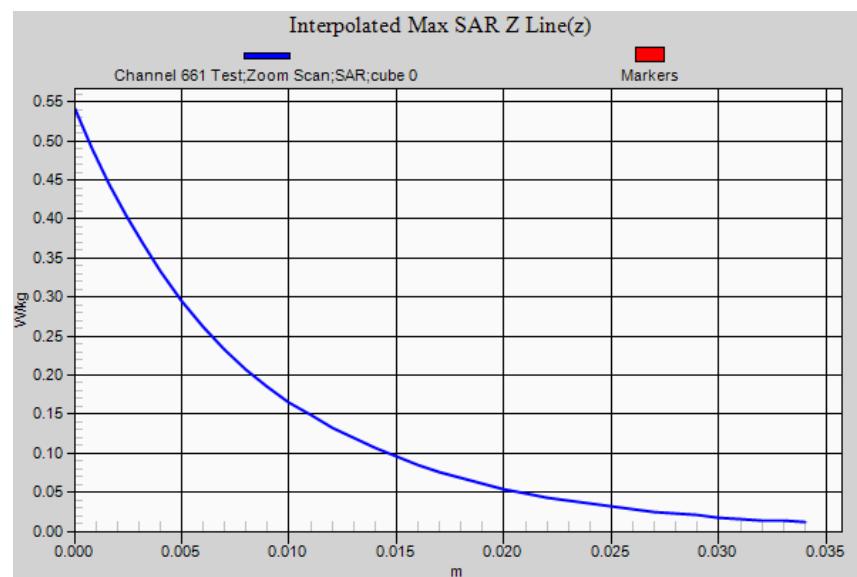


SAR Measurement Plot 69



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Test Lab: EMCTech

Test File: M170217 Head 1900 MHz GSM FCC.da52:1

DUT Name: Blackline Safety GSM-3G Transmitter, Type: HMN: G7C, Serial: 3566000154**Configuration: Face Frontal 10mm Spacing H2S Cartridge GPRS Class 8 08-03-17**

Communication System: 0 - Generic GSM; Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz);

Frequency: 1910 MHz, Communication System PAR: 9.19 dB; PMF: 2.88; Duty Cycle: 1:8.30

Medium Parameters used: $f=1910$ MHz; $\sigma = 1.45$ S/m; $\epsilon_r = 39.7$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (5.18,5.18,5.18); 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 22; Type: SAM 22; Serial: 1260

DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

Face Frontal 10mm Spacing H2S Cartridge GPRS Class 8 08-03-17/Channel 810 Test/Area Scan (71x121x1):

Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.348 W/kg

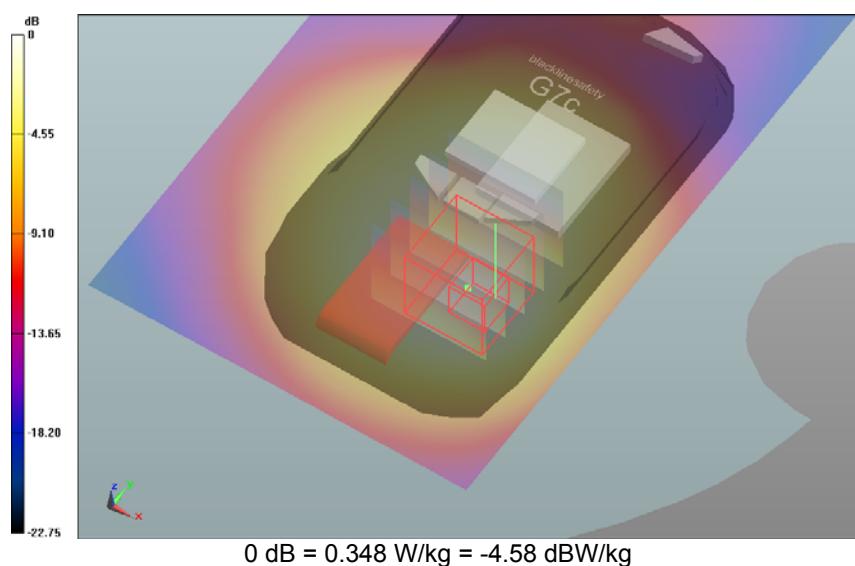
Face Frontal 10mm Spacing H2S Cartridge GPRS Class 8 08-03-17/Channel 810 Test/Zoom Scan

(21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 12.059 V/m;

Power Drift = -0.04 dB

Averaged SAR: SAR(1g) = 0.319 W/kg; SAR(10g) = 0.182 W/kg

Maximum value of SAR (interpolated) = 0.577 W/kg

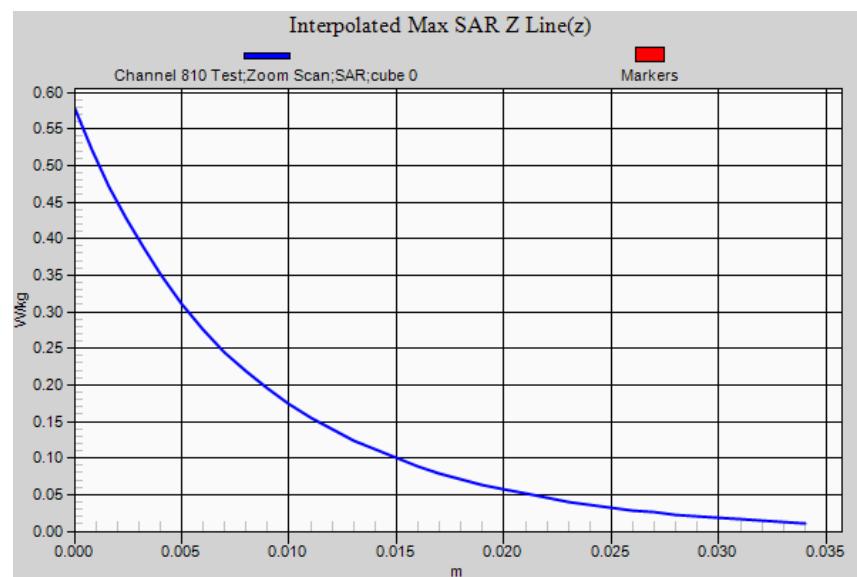


SAR Measurement Plot 70



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Test Lab: EMCTech

Test File: M170217 Head 1900 MHz GSM FCC.da52:2

DUT Name: Blackline Safety GSM-3G Transmitter, Type: HMN: G7C, Serial: 3568000104**Configuration: Face Frontal 10mm Spacing O2 CO H2S LEL Cartridge GPRS Class 8 08-03-17**

Communication System: 0 - Generic GSM; Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz);

Frequency: 1850 MHz, Communication System PAR: 9.19 dB; PMF: 2.88; Duty Cycle: 1:8.30

Medium Parameters used: $f=1850.5$ MHz; $\sigma = 1.41$ S/m; $\epsilon_r = 39.8$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (5.18,5.18,5.18); Calibrated: 8/12/2016;

Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))

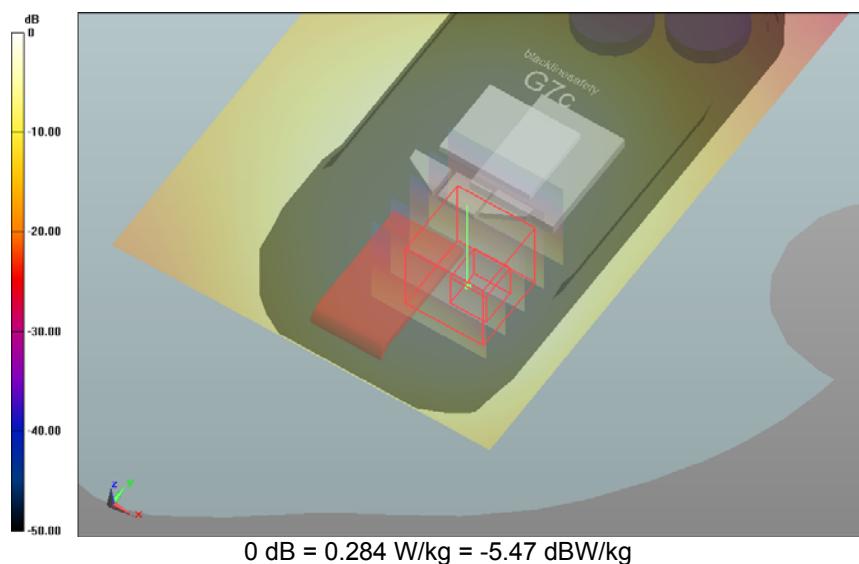
Electronics: DAE3 Sn442; Calibrated: 6/12/2016

Phantom: SAM 22; Type: SAM 22; Serial: 1260

DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

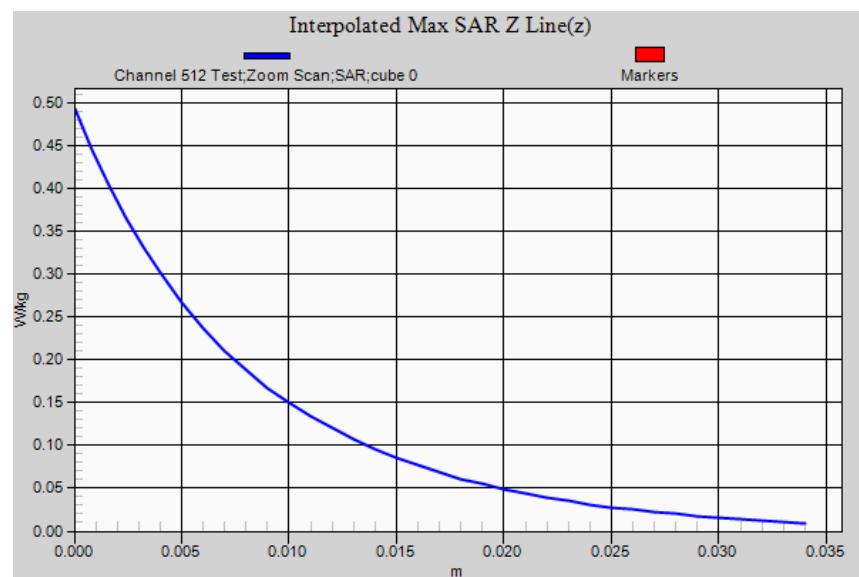
Face Frontal 10mm Spacing O2 CO H2S LEL Cartridge GPRS Class 8 08-03-17/Channel 512 Test/Area Scan (71x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.284 W/kg**Face Frontal 10mm Spacing O2 CO H2S LEL Cartridge GPRS Class 8 08-03-17/Channel 512 Test/Zoom****Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 10.325 V/m;**Power Drift = -0.02 dB****Averaged SAR: SAR(1g) = 0.272 W/kg; SAR(10g) = 0.151 W/kg**

Maximum value of SAR (interpolated) = 0.493 W/kg



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Test Lab: EMCTech

Test File: M170217 Head 1900 MHz GSM FCC.da52:2

DUT Name: Blackline Safety GSM-3G Transmitter, Type: HMN: G7C, Serial: 3568000104**Configuration: Face Frontal 10mm Spacing O2 CO H2S LEL Cartridge GPRS Class 8 08-03-17**

Communication System: 0 - Generic GSM; Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz);

Frequency: 1880 MHz, Communication System PAR: 9.19 dB; PMF: 2.88; Duty Cycle: 1:8.30

Medium Parameters used: $f=1880.25$ MHz; $\sigma = 1.43$ S/m; $\epsilon_r = 39.8$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (5.18,5.18,5.18); Calibrated: 8/12/2016;

Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))

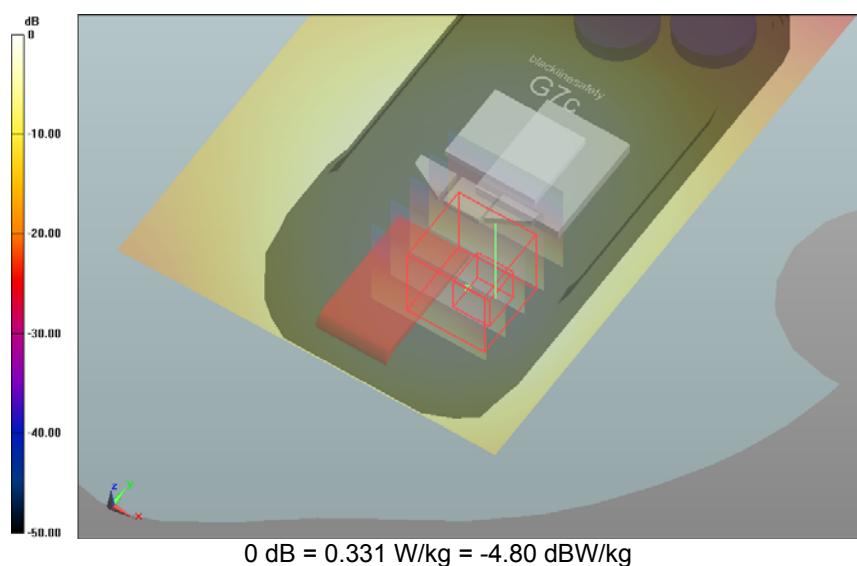
Electronics: DAE3 Sn442; Calibrated: 6/12/2016

Phantom: SAM 22; Type: SAM 22; Serial: 1260

DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

Face Frontal 10mm Spacing O2 CO H2S LEL Cartridge GPRS Class 8 08-03-17/Channel 661 Test/Area Scan (71x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.331 W/kg**Face Frontal 10mm Spacing O2 CO H2S LEL Cartridge GPRS Class 8 08-03-17/Channel 661 Test/Zoom****Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 11.287 V/m;**Power Drift = -0.01 dB****Averaged SAR: SAR(1g) = 0.313 W/kg; SAR(10g) = 0.175 W/kg**

Maximum value of SAR (interpolated) = 0.574 W/kg

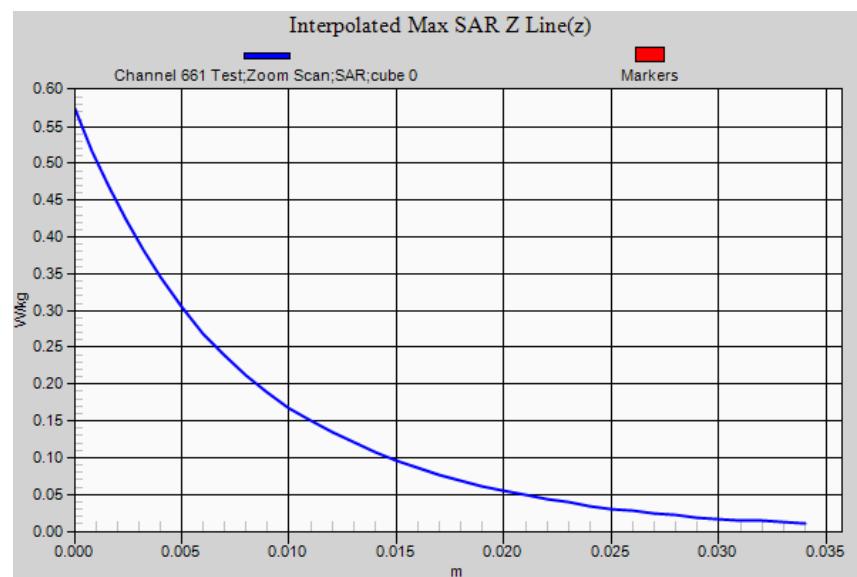


SAR Measurement Plot 72



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Test Lab: EMCTech

Test File: M170217 Head 1900 MHz GSM FCC.da52:2

DUT Name: Blackline Safety GSM-3G Transmitter, Type: HMN: G7C, Serial: 3568000104**Configuration: Face Frontal 10mm Spacing O2 CO H2S LEL Cartridge GPRS Class 8 08-03-17**

Communication System: 0 - Generic GSM; Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz);

Frequency: 1910 MHz, Communication System PAR: 9.19 dB; PMF: 2.88; Duty Cycle: 1:8.30

Medium Parameters used: $f=1910$ MHz; $\sigma = 1.45$ S/m; $\epsilon_r = 39.7$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (5.18,5.18,5.18); Calibrated: 8/12/2016;

Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))

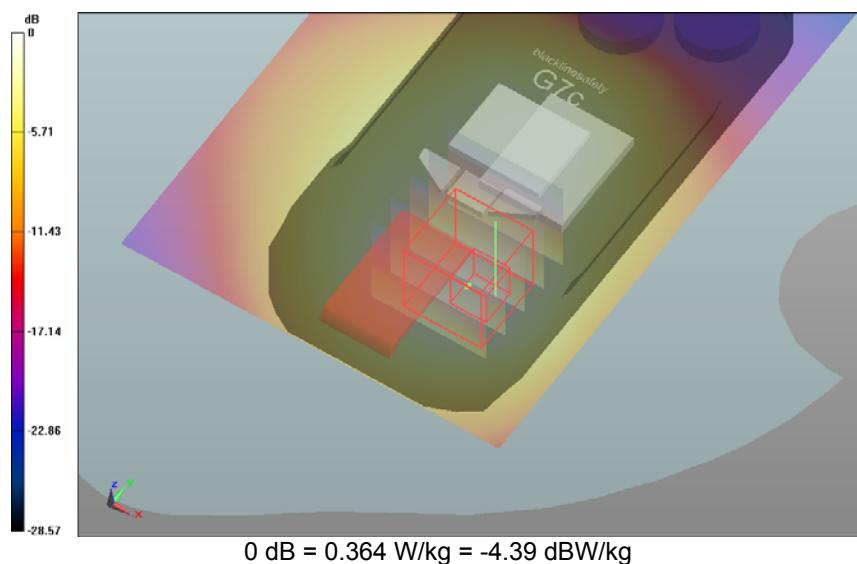
Electronics: DAE3 Sn442; Calibrated: 6/12/2016

Phantom: SAM 22; Type: SAM 22; Serial: 1260

DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

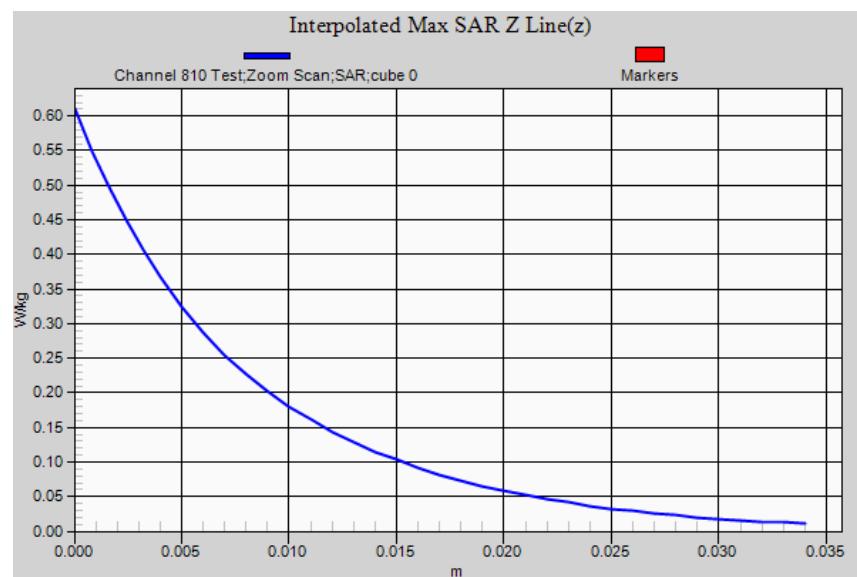
Face Frontal 10mm Spacing O2 CO H2S LEL Cartridge GPRS Class 8 08-03-17/Channel 810 Test/Area Scan (71x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.364 W/kg**Face Frontal 10mm Spacing O2 CO H2S LEL Cartridge GPRS Class 8 08-03-17/Channel 810 Test/Zoom****Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 12.195 V/m;**Power Drift = -0.07 dB****Averaged SAR: SAR(1g) = 0.337 W/kg; SAR(10g) = 0.191 W/kg**

Maximum value of SAR (interpolated) = 0.610 W/kg



SAR Measurement Plot 73





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Test Lab: EMCTech Test File: M170217 Head 1900 MHz GSM FCC.da52:3

DUT Name: Dipole 1950 MHz, Type: DV1950V3, Serial: 1113

Configuration: System Check 08-03-17

Communication System: 0 - CW (0); Communication System Band: 1950 MHz; Frequency: 1950 MHz,

Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=1950.25$ MHz; $\sigma = 1.46$ S/m; $\epsilon_r = 39.6$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (4.98,4.98,4.98); Calibrated: 8/12/2016;

Sensor-Surface: 4 mm (Mechanical Surface Detection)

Electronics: DAE3 Sn442; Calibrated: 6/12/2016

Phantom: SAM 22; Type: SAM 22; Serial: 1260

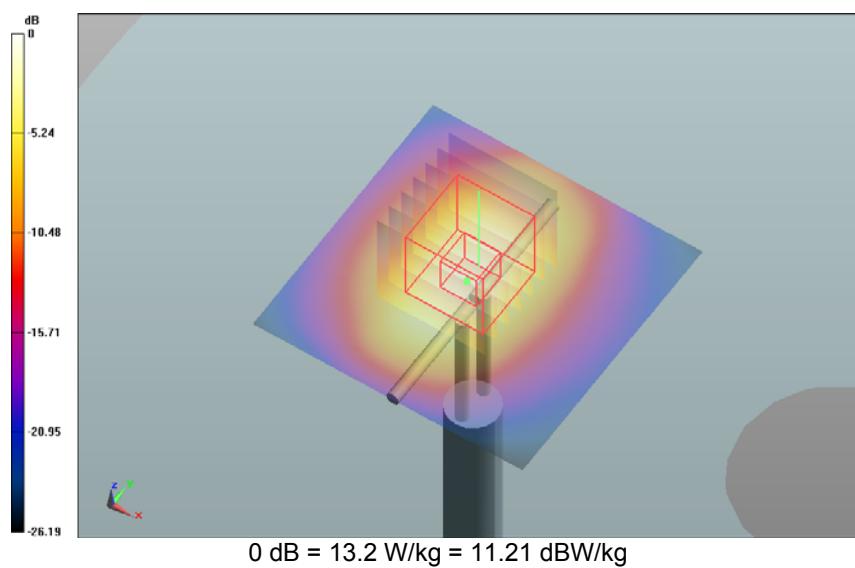
DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

System Check 08-03-17/Channel 1 Test/Area Scan (51x51x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 13.200 W/kg

System Check 08-03-17/Channel 1 Test/Zoom Scan (31x31x36)/Cube 0: Interpolated grid: dx=1.0 mm, dy=1.0 mm, dz=1.0 mm; Reference Value = 94.331 V/m; Power Drift = 0.00 dB

Averaged SAR: SAR(1g) = 10.200 W/kg; SAR(10g) = 5.250 W/kg

Maximum value of SAR (interpolated) = 18.100 W/kg

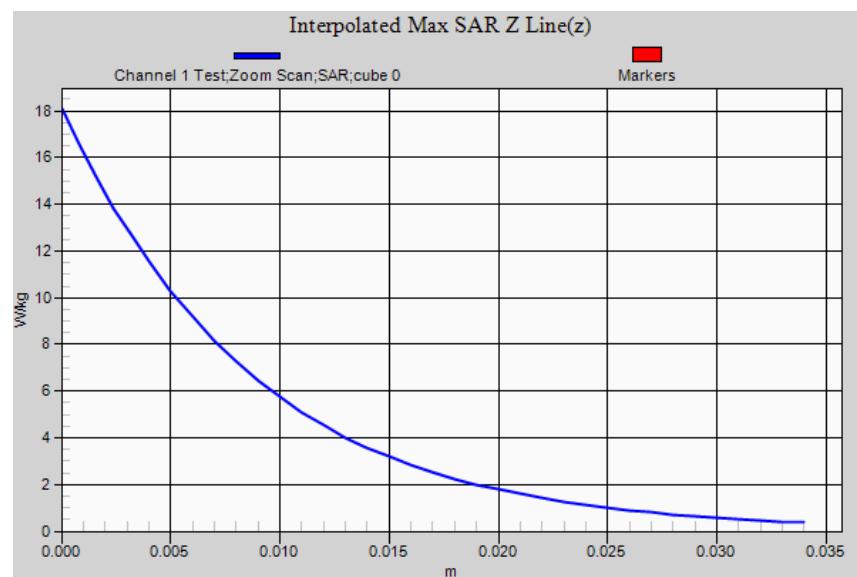


SAR Measurement Plot 74



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Test Lab: EMCTech

Test File: M170217 Body 1900 MHz GPRS FCC.da52:0

DUT Name: Blackline Safety GSM-3G Transmitter, Type: HMN: G7C, Serial: 3566000154**Configuration: Body Worn Belt Clip Standard Cartridge GPRS Class 8 16-03-17**

Communication System: 0 - GPRS Class 08; Communication System Band: 1900 MHz GSM; Frequency: 1850

MHz, Communication System PAR: 9.38 dB; PMF: 2.94; Duty Cycle: 1:8.67

Medium Parameters used: $f=1850.5$ MHz; $\sigma = 1.52$ S/m; $\epsilon_r = 52.4$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (4.72,4.72,4.72); 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 GPRS Class 8 16-03-17/Channel 512 Test/Area Scan (71x121x1):

Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.074 W/kg

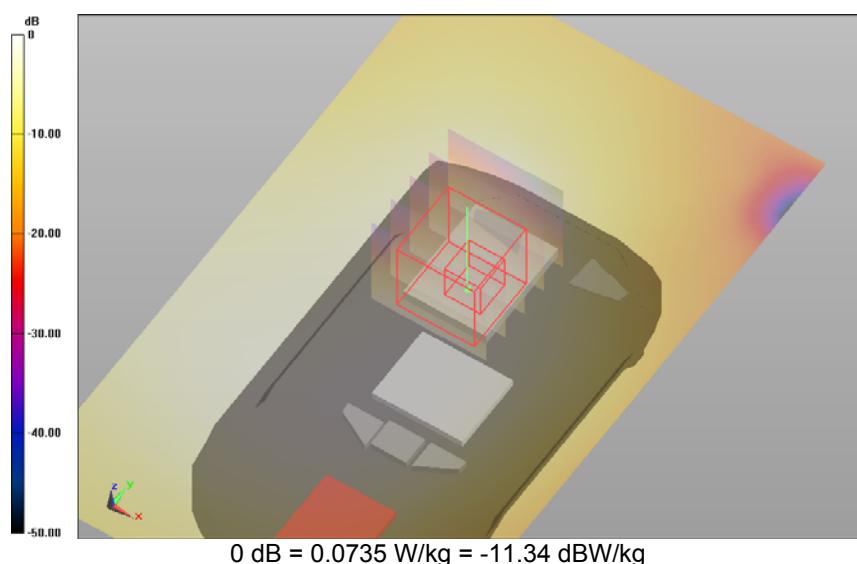
Body Worn Belt Clip Standard Cartridge GPRS Class 8 16-03-17/Channel 512 Test/Zoom Scan

(21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 6.489 V/m; Power

Drift = -0.06 dB

Averaged SAR: SAR(1g) = 0.066 W/kg; SAR(10g) = 0.043 W/kg

Maximum value of SAR (interpolated) = 0.089 W/kg

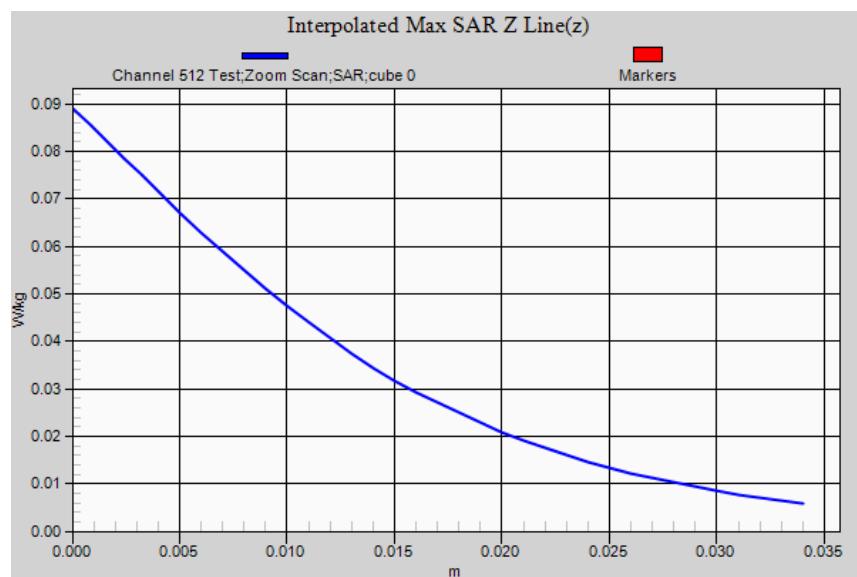


SAR Measurement Plot 75



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Test Lab: EMCTech

Test File: M170217 Body 1900 MHz GPRS FCC.da52:0

DUT Name: Blackline Safety GSM-3G Transmitter, Type: HMN: G7C, Serial: 3566000154**Configuration: Body Worn Belt Clip Standard Cartridge GPRS Class 8 16-03-17**

Communication System: 0 - GPRS Class 08; Communication System Band: 1900 MHz GSM; Frequency: 1880

MHz, Communication System PAR: 9.38 dB; PMF: 2.94; Duty Cycle: 1:8.67

Medium Parameters used: $f=1880.25$ MHz; $\sigma = 1.54$ S/m; $\epsilon_r = 52.3$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (4.72,4.72,4.72); 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 GPRS Class 8 16-03-17/Channel 661 Test/Area Scan (71x121x1):

Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.083 W/kg

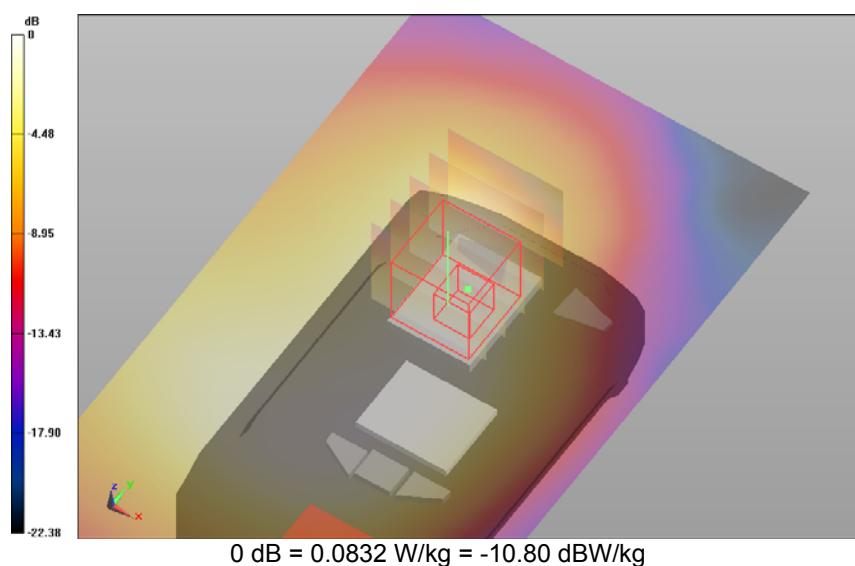
Body Worn Belt Clip Standard Cartridge GPRS Class 8 16-03-17/Channel 661 Test/Zoom Scan

(21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 6.704 V/m; Power

Drift = -0.03 dB

Averaged SAR: SAR(1g) = 0.073 W/kg; SAR(10g) = 0.047 W/kg

Maximum value of SAR (interpolated) = 0.102 W/kg

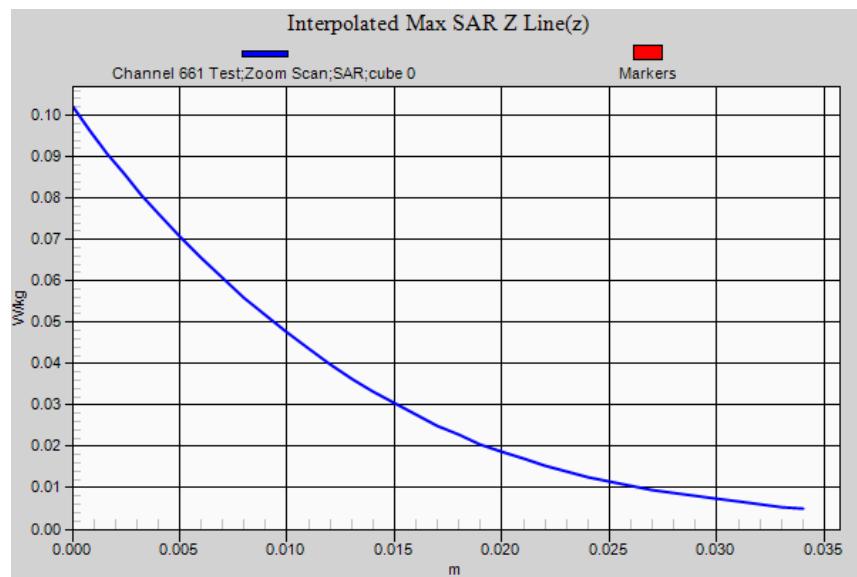


SAR Measurement Plot 76



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Test Lab: EMCTech

Test File: M170217 Body 1900 MHz GPRS FCC.da52:0

DUT Name: Blackline Safety GSM-3G Transmitter, Type: HMN: G7C, Serial: 3566000154**Configuration: Body Worn Belt Clip Standard Cartridge GPRS Class 8 16-03-17**

Communication System: 0 - GPRS Class 08; Communication System Band: 1900 MHz GSM; Frequency: 1910

MHz, Communication System PAR: 9.38 dB; PMF: 2.94; Duty Cycle: 1:8.67

Medium Parameters used: $f=1910$ MHz; $\sigma = 1.55$ S/m; $\epsilon_r = 52.1$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (4.72,4.72,4.72); 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 GPRS Class 8 16-03-17/Channel 810 Test/Area Scan (71x121x1):

Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.085 W/kg

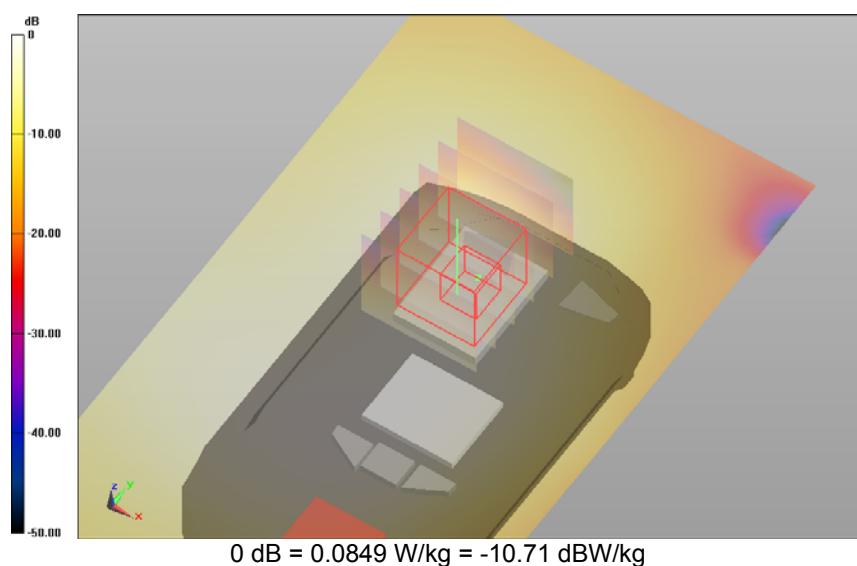
Body Worn Belt Clip Standard Cartridge GPRS Class 8 16-03-17/Channel 810 Test/Zoom Scan

(21x26x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 6.415 V/m; Power

Drift = -0.03 dB

Averaged SAR: SAR(1g) = 0.075 W/kg; SAR(10g) = 0.048 W/kg

Maximum value of SAR (interpolated) = 0.107 W/kg

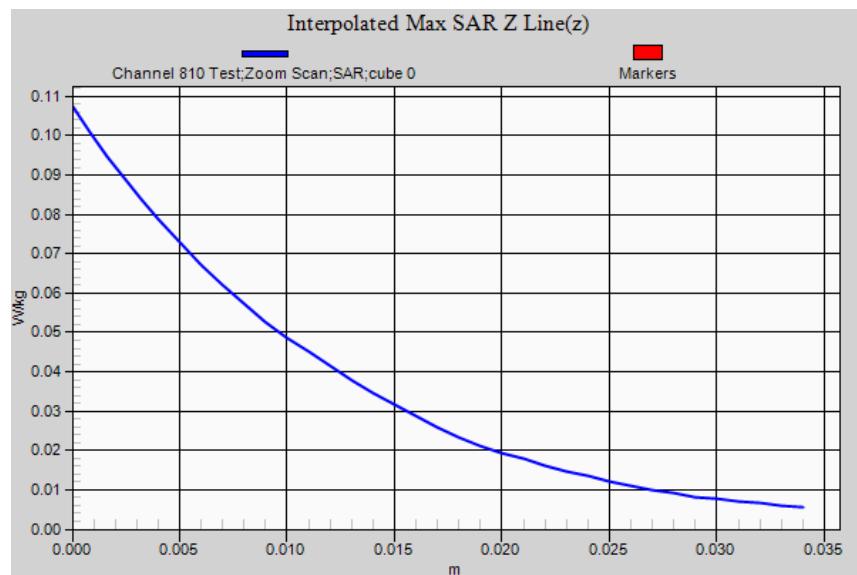


SAR Measurement Plot 77



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Test Lab: EMCTech

Test File: M170217 Body 1900 MHz GPRS FCC.da52:1

DUT Name: Blackline Safety GSM-3G Transmitter, Type: HMN: G7C, Serial: 3566000154**Configuration: Body Worn Belt Clip H2S Cartridge GPRS Class 8 16-03-17**

Communication System: 0 - GPRS Class 08; Communication System Band: 1900 MHz GSM; Frequency: 1850

MHz, Communication System PAR: 9.38 dB; PMF: 2.94; Duty Cycle: 1:8.67

Medium Parameters used: $f=1850.5$ MHz; $\sigma = 1.52$ S/m; $\epsilon_r = 52.4$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (4.72,4.72,4.72); 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 GPRS Class 8 16-03-17/Channel 512 Test/Area Scan (71x121x1):

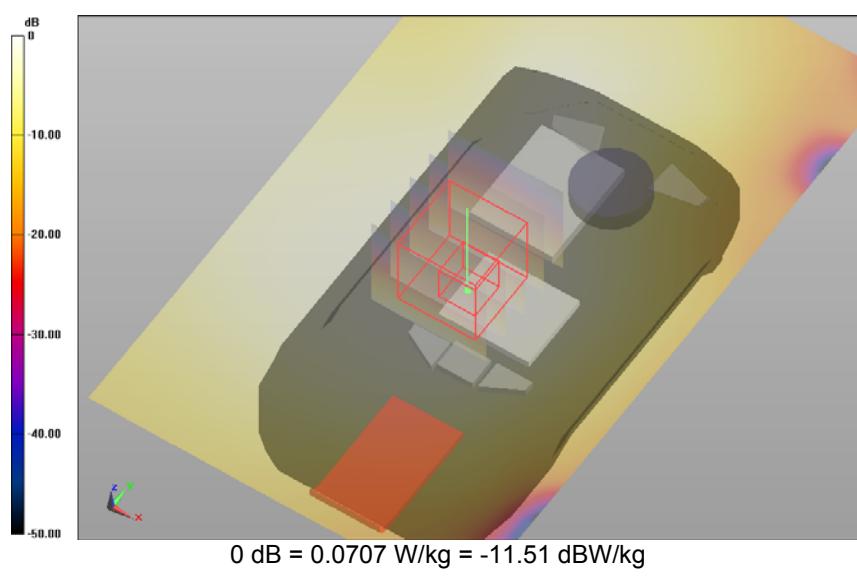
Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.071 W/kg

Body Worn Belt Clip H2S Cartridge GPRS Class 8 16-03-17/Channel 512 Test/Zoom Scan (21x21x36)/Cube 0:

Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 6.662 V/m; Power Drift = -0.06 dB

Averaged SAR: SAR(1g) = 0.066 W/kg; SAR(10g) = 0.044 W/kg

Maximum value of SAR (interpolated) = 0.091 W/kg

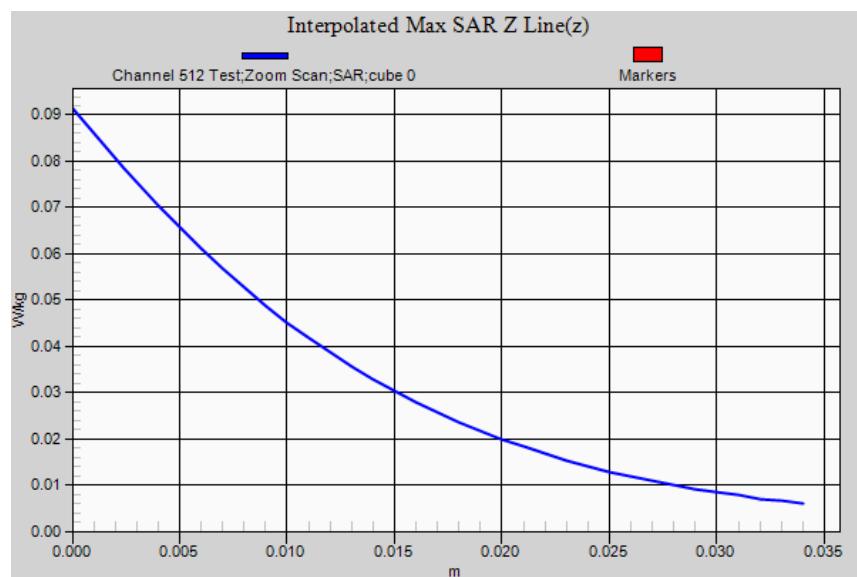


SAR Measurement Plot 78



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Test Lab: EMCTech

Test File: M170217 Body 1900 MHz GPRS FCC.da52:1

DUT Name: Blackline Safety GSM-3G Transmitter, Type: HMN: G7C, Serial: 3566000154**Configuration: Body Worn Belt Clip H2S Cartridge GPRS Class 8 16-03-17**

Communication System: 0 - GPRS Class 08; Communication System Band: 1900 MHz GSM; Frequency: 1880

MHz, Communication System PAR: 9.38 dB; PMF: 2.94; Duty Cycle: 1:8.67

Medium Parameters used: $f=1880.25$ MHz; $\sigma = 1.54$ S/m; $\epsilon_r = 52.3$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (4.72,4.72,4.72); 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 GPRS Class 8 16-03-17/Channel 661 Test/Area Scan (71x121x1):

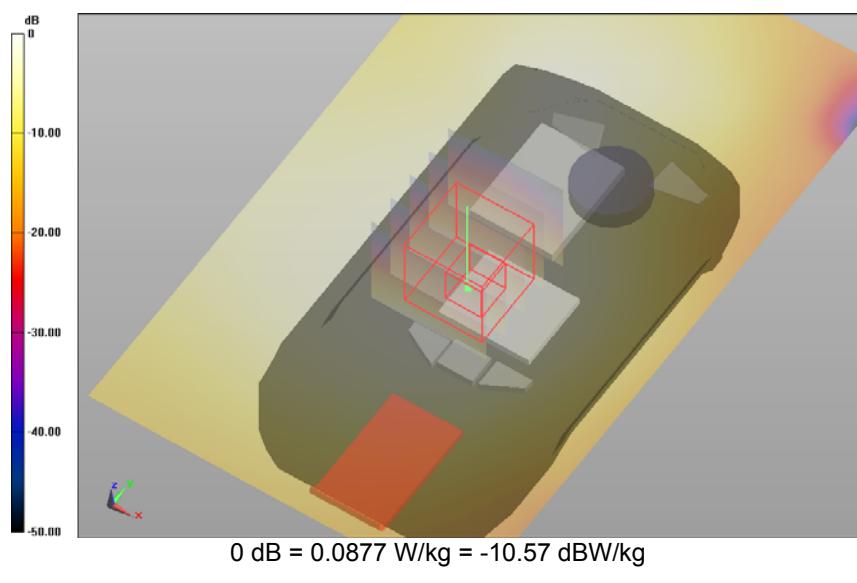
Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.088 W/kg

Body Worn Belt Clip H2S Cartridge GPRS Class 8 16-03-17/Channel 661 Test/Zoom Scan (21x21x36)/Cube 0:

Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 7.261 V/m; Power Drift = -0.06 dB

Averaged SAR: SAR(1g) = 0.081 W/kg; SAR(10g) = 0.053 W/kg

Maximum value of SAR (interpolated) = 0.112 W/kg

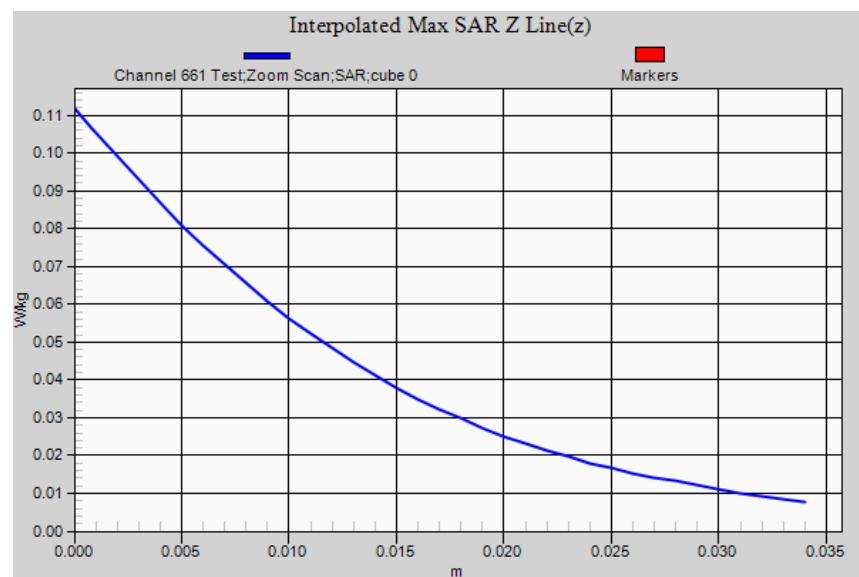


SAR Measurement Plot 79



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Test Lab: EMCTech

Test File: M170217 Body 1900 MHz GPRS FCC.da52:1

DUT Name: Blackline Safety GSM-3G Transmitter, Type: HMN: G7C, Serial: 3566000154**Configuration: Body Worn Belt Clip H2S Cartridge GPRS Class 8 16-03-17**

Communication System: 0 - GPRS Class 08; Communication System Band: 1900 MHz GSM; Frequency: 1910

MHz, Communication System PAR: 9.38 dB; PMF: 2.94; Duty Cycle: 1:8.67

Medium Parameters used: $f=1910$ MHz; $\sigma = 1.55$ S/m; $\epsilon_r = 52.1$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (4.72,4.72,4.72); 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

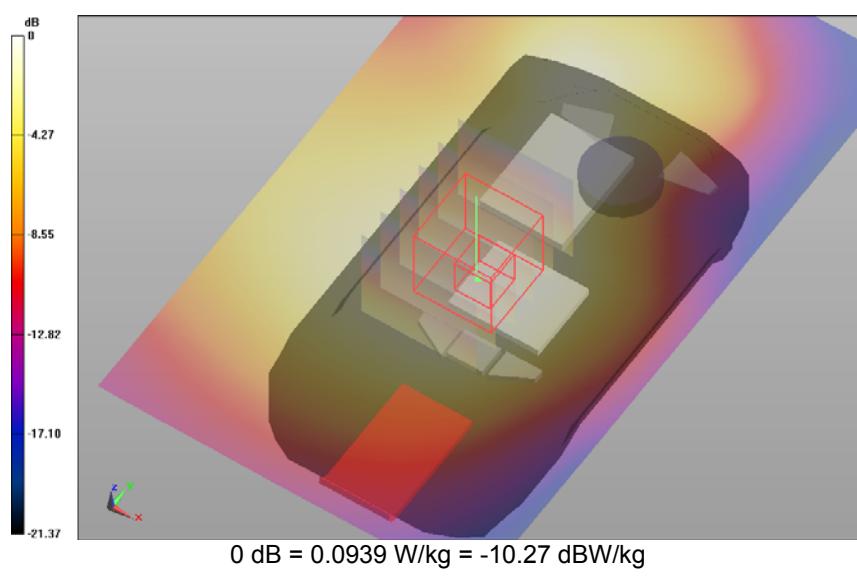
DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

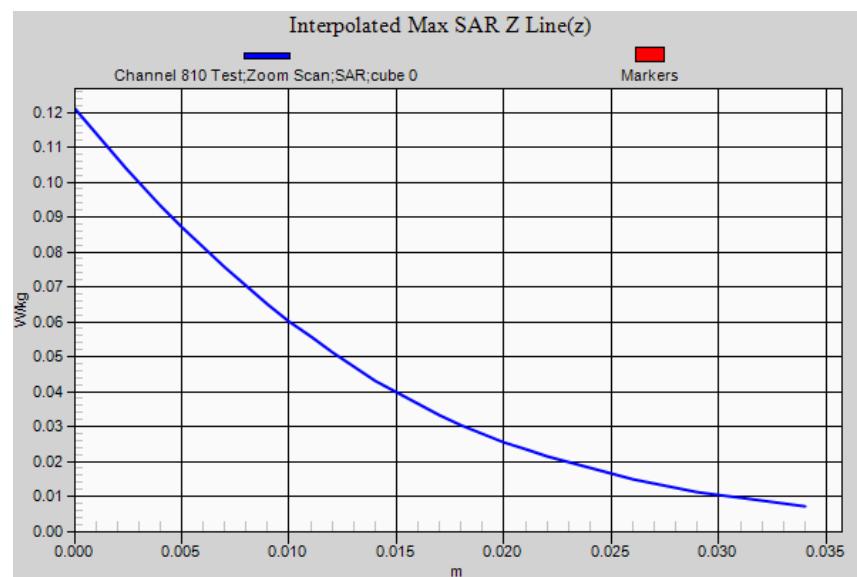
Body Worn Belt Clip H2S Cartridge GPRS Class 8 16-03-17/Channel 810 Test/Area Scan (71x121x1):

Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.094 W/kg

Body Worn Belt Clip H2S Cartridge GPRS Class 8 16-03-17/Channel 810 Test/Zoom Scan (21x26x36)/Cube**0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 7.357 V/m; Power Drift = -0.00 dB****Averaged SAR: SAR(1g) = 0.087 W/kg; SAR(10g) = 0.057 W/kg**

Maximum value of SAR (interpolated) = 0.121 W/kg





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Test Lab: EMCTech

Test File: M170217 Body 1900 MHz GPRS FCC.da52:2

DUT Name: Blackline Safety GSM-3G Transmitter, Type: HMN: G7C, Serial: 3568000104**Configuration: Body Worn Belt Clip O2 CO H2S LEL Cartridge GPRS Class 8 16-03-17**

Communication System: 0 - GPRS Class 08; Communication System Band: 1900 MHz GSM; Frequency: 1850

MHz, Communication System PAR: 9.38 dB; PMF: 2.94; Duty Cycle: 1:8.67

Medium Parameters used: $f=1850.5$ MHz; $\sigma = 1.52$ S/m; $\epsilon_r = 52.4$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (4.72,4.72,4.72); 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 GPRS Class 8 16-03-17/Channel 512 Test/Area Scan

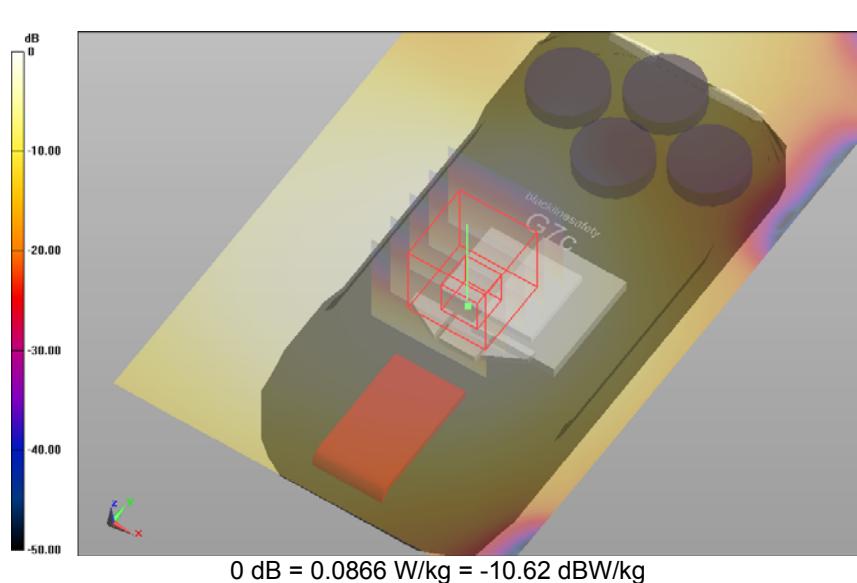
(71x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.087 W/kg

Body Worn Belt Clip O2 CO H2S LEL Cartridge GPRS Class 8 16-03-17/Channel 512 Test/Zoom Scan

(21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 7.509 V/m; Power Drift = -0.04 dB

Averaged SAR: SAR(1g) = 0.080 W/kg; SAR(10g) = 0.054 W/kg

Maximum value of SAR (interpolated) = 0.113 W/kg

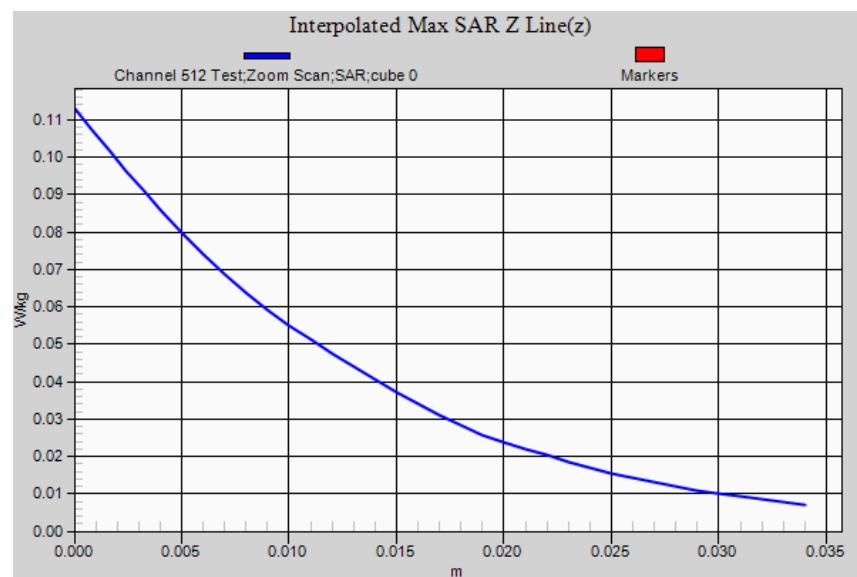


SAR Measurement Plot 81



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Test Lab: EMCTech

Test File: M170217 Body 1900 MHz GPRS FCC.da52:2

DUT Name: Blackline Safety GSM-3G Transmitter, Type: HMN: G7C, Serial: 3568000104**Configuration: Body Worn Belt Clip O2 CO H2S LEL Cartridge GPRS Class 8 16-03-17**

Communication System: 0 - GPRS Class 08; Communication System Band: 1900 MHz GSM; Frequency: 1880

MHz, Communication System PAR: 9.38 dB; PMF: 2.94; Duty Cycle: 1:8.67

Medium Parameters used: $f=1880.25$ MHz; $\sigma = 1.54$ S/m; $\epsilon_r = 52.3$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (4.72,4.72,4.72); 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 GPRS Class 8 16-03-17/Channel 661 Test/Area Scan

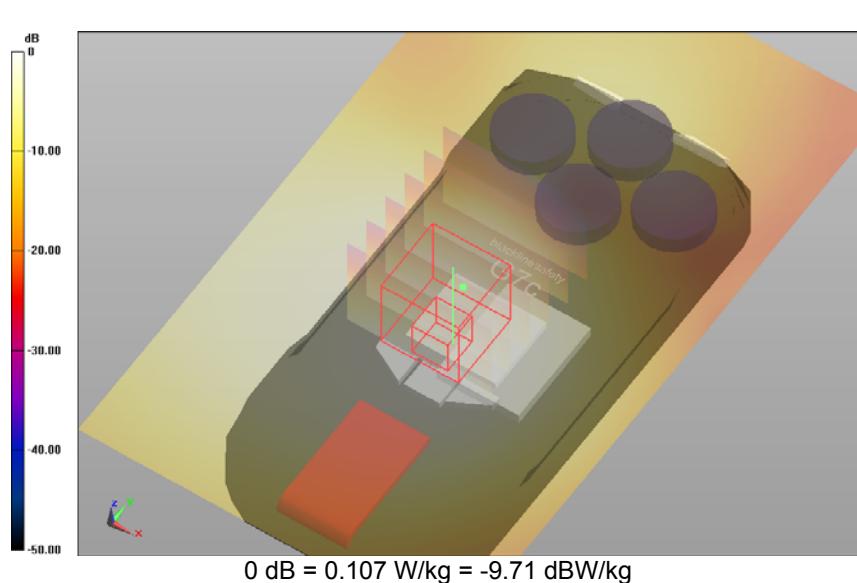
(71x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.107 W/kg

Body Worn Belt Clip O2 CO H2S LEL Cartridge GPRS Class 8 16-03-17/Channel 661 Test/Zoom Scan

(26x26x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 8.196 V/m; Power Drift = -0.03 dB

Averaged SAR: SAR(1g) = 0.099 W/kg; SAR(10g) = 0.066 W/kg

Maximum value of SAR (interpolated) = 0.140 W/kg

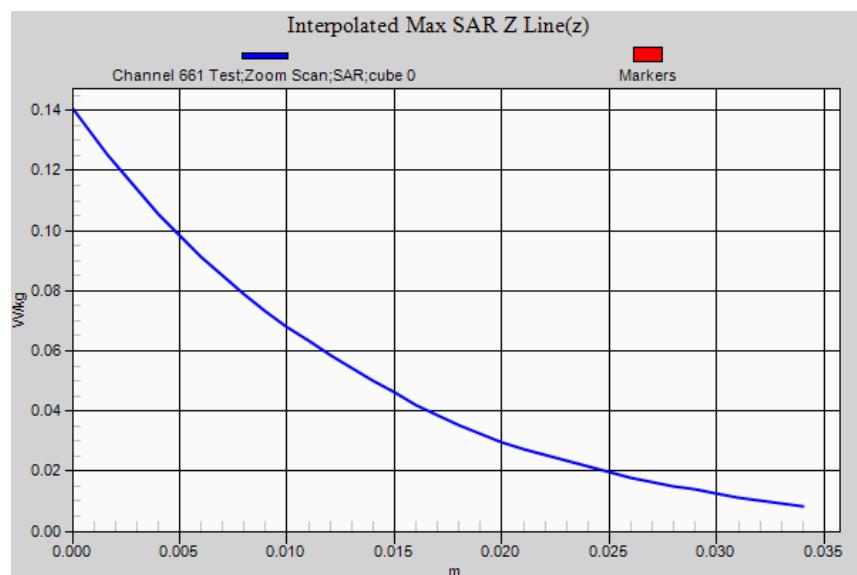


SAR Measurement Plot 82



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Test Lab: EMCTech

Test File: M170217 Body 1900 MHz GPRS FCC.da52:2

DUT Name: Blackline Safety GSM-3G Transmitter, Type: HMN: G7C, Serial: 3568000104**Configuration: Body Worn Belt Clip O2 CO H2S LEL Cartridge GPRS Class 8 16-03-17**

Communication System: 0 - GPRS Class 08; Communication System Band: 1900 MHz GSM; Frequency: 1910

MHz, Communication System PAR: 9.38 dB; PMF: 2.94; Duty Cycle: 1:8.67

Medium Parameters used: $f=1910$ MHz; $\sigma = 1.55$ S/m; $\epsilon_r = 52.1$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (4.72,4.72,4.72); 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 GPRS Class 8 16-03-17/Channel 810 Test/Area Scan

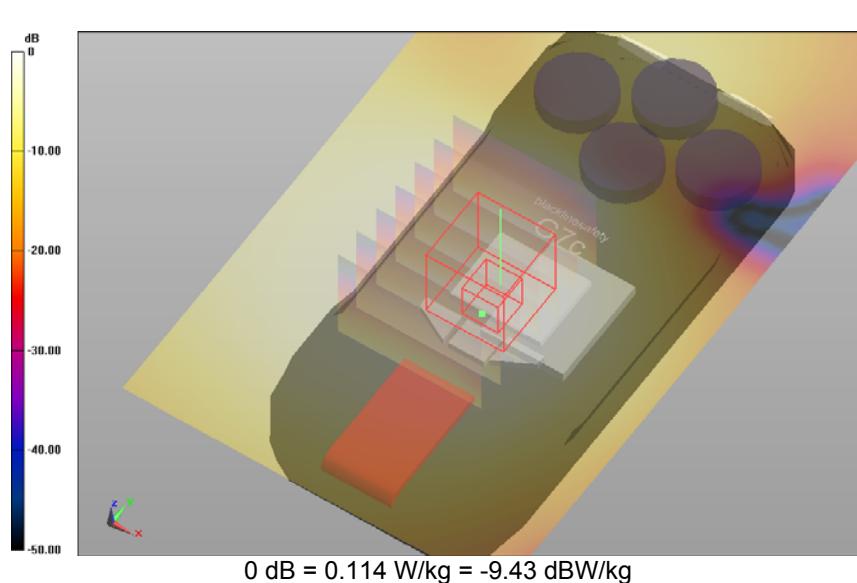
(71x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 0.114 W/kg

Body Worn Belt Clip O2 CO H2S LEL Cartridge GPRS Class 8 16-03-17/Channel 810 Test/Zoom Scan

(26x31x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 8.332 V/m; Power Drift = -0.01 dB

Averaged SAR: SAR(1g) = 0.105 W/kg; SAR(10g) = 0.070 W/kg

Maximum value of SAR (interpolated) = 0.149 W/kg

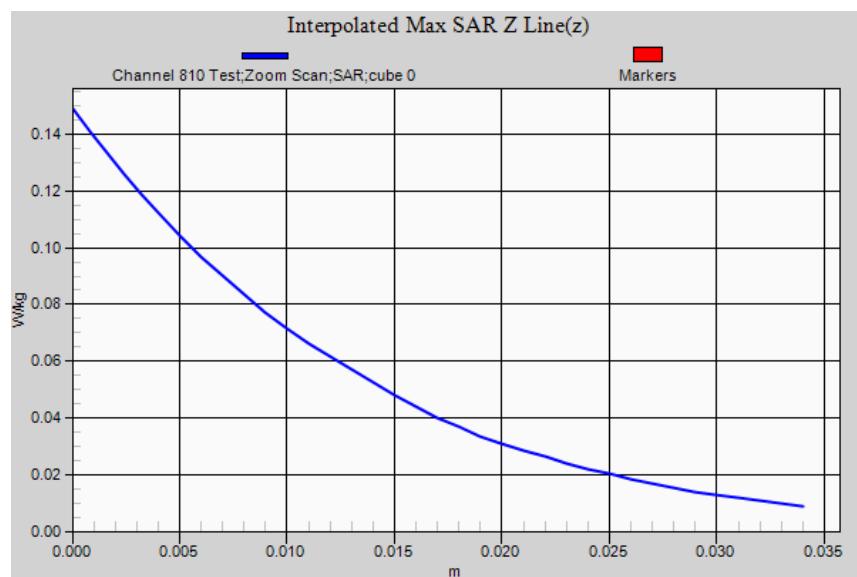


SAR Measurement Plot 83



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