

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. The spatial peak SAR values were assessed with the procedure described in this report.



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Whip FCC.da52:0

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Battery Clip 16 Key 24-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 450.1 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=450$ MHz; $\sigma = 0.94$ S/m; $\epsilon_r = 56.4$; $\rho = 1000.0\text{g/cm}^3$

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

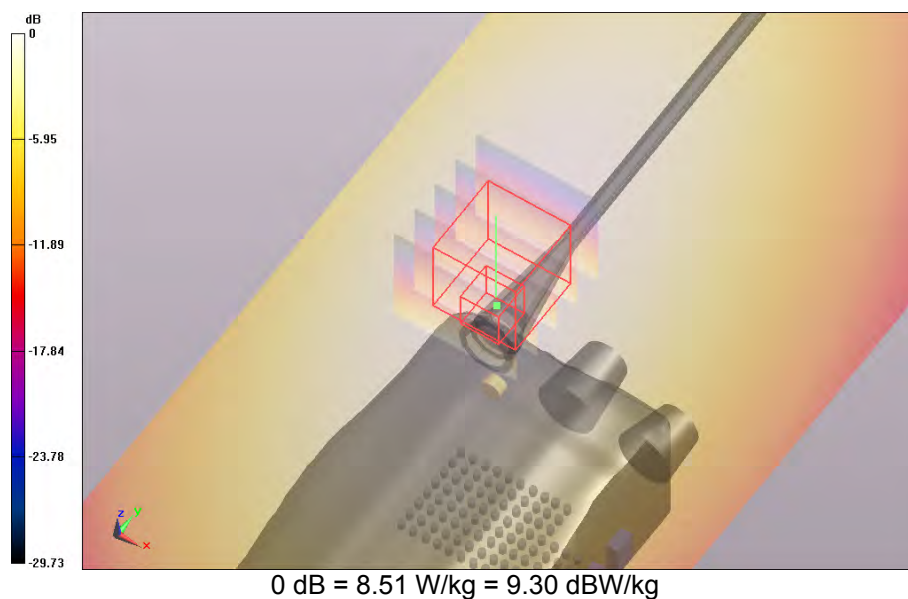
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

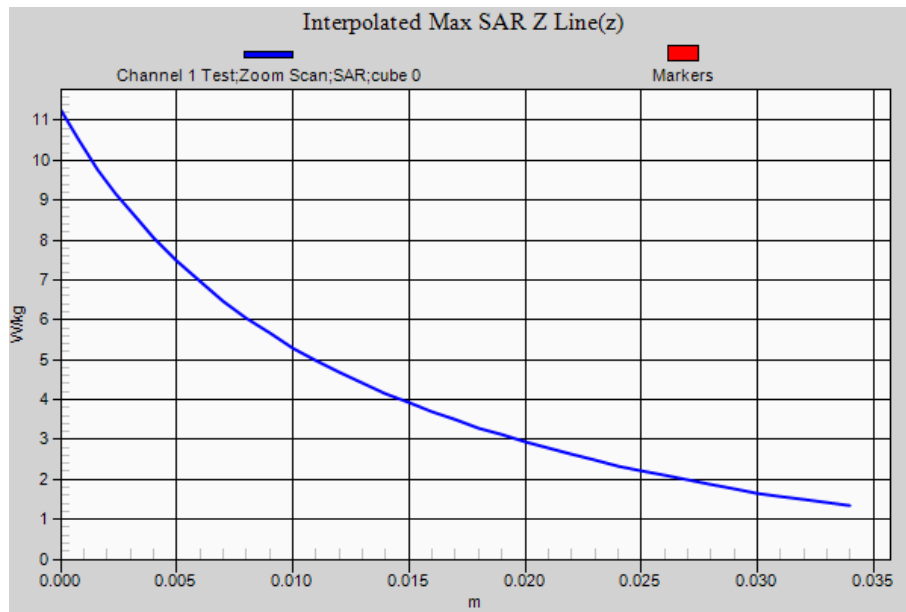
DASY52 52.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Battery Clip 16 Key 24-03-14/Channel 1 Test/Area Scan (81x221x1): Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 8.510 W/kg**Body Battery Clip 16 Key 24-03-14/Channel 1 Test/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 63.410 V/m; **Power Drift = 0.06 dB****Averaged SAR: SAR(1g) = 8.090 W/kg; SAR(10g) = 5.770 W/kg**

Maximum value of SAR (interpolated) = 11.200 W/kg



SAR Measurement Plot 1



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Whip FCC.da52:0

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Battery Clip 16 Key 24-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 465.5 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=465.5$ MHz; $\sigma = 0.94$ S/m; $\epsilon_r = 56.1$; $\rho = 1000.0$ g/cm³
 Phantom section: Flat Section

DASY Configuration:

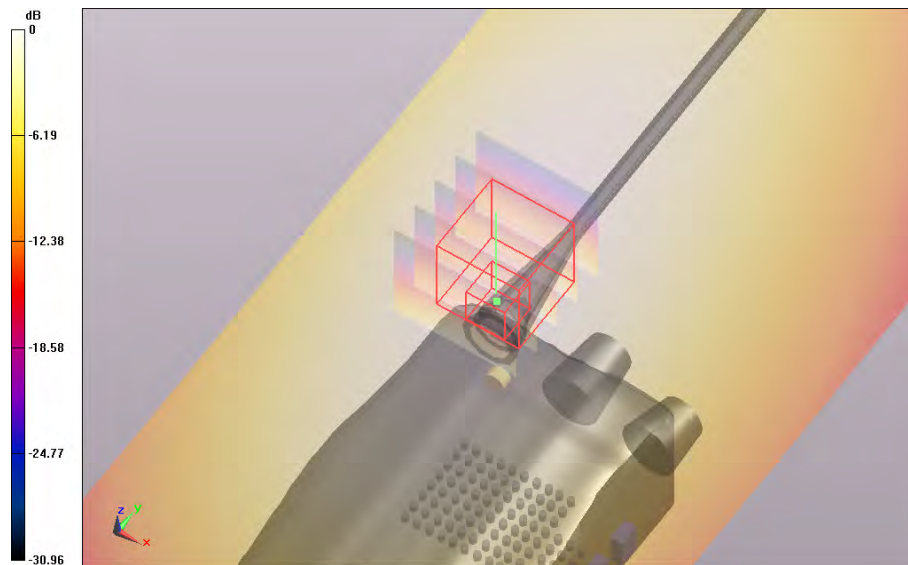
Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Battery Clip 16 Key 24-03-14/Channel 2 Test/Area Scan (81x221x1): Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 8.910 W/kg

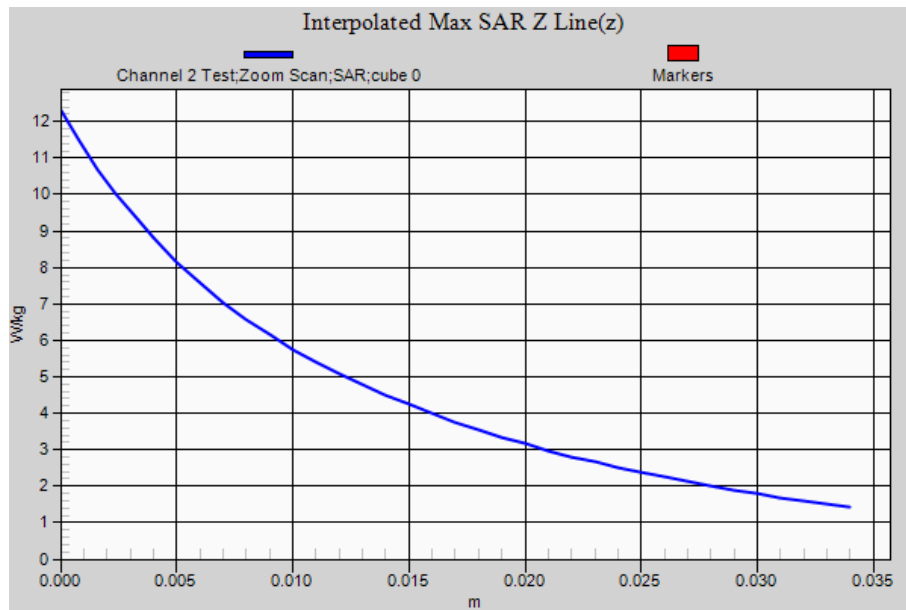
Body Battery Clip 16 Key 24-03-14/Channel 2 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 66.822 V/m; **Power Drift = -0.18 dB**

Averaged SAR: SAR(1g) = 8.740 W/kg; SAR(10g) = 6.170 W/kg

Maximum value of SAR (interpolated) = 12.300 W/kg



SAR Measurement Plot 2



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Whip FCC.da52:0

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Battery Clip 16 Key 24-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 481.0 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=481$ MHz; $\sigma = 0.95$ S/m; $\epsilon_r = 55.8$; $\rho = 1000.0$ g/cm³
 Phantom section: Flat Section

DASY Configuration:

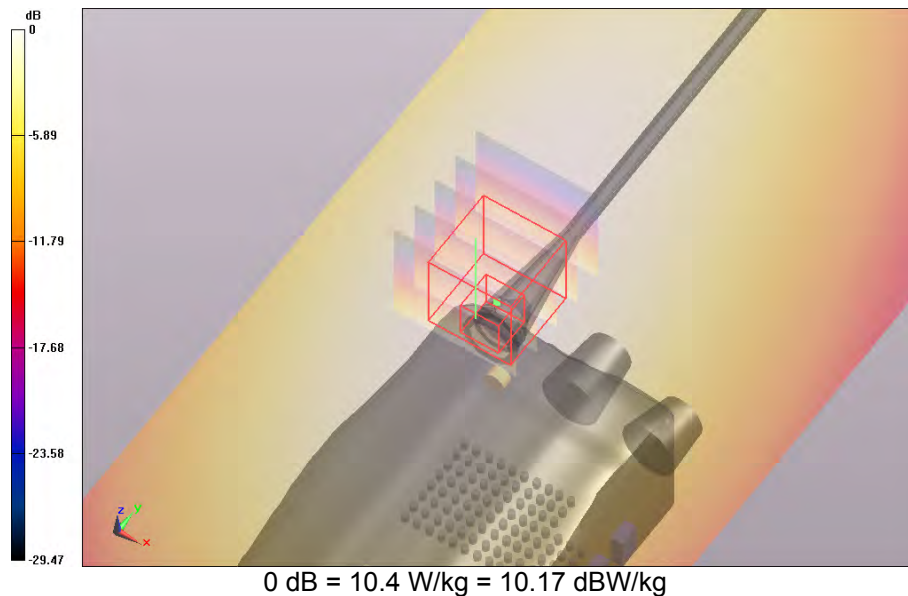
Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Battery Clip 16 Key 24-03-14/Channel 3 Test/Area Scan (81x221x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 10.400 W/kg

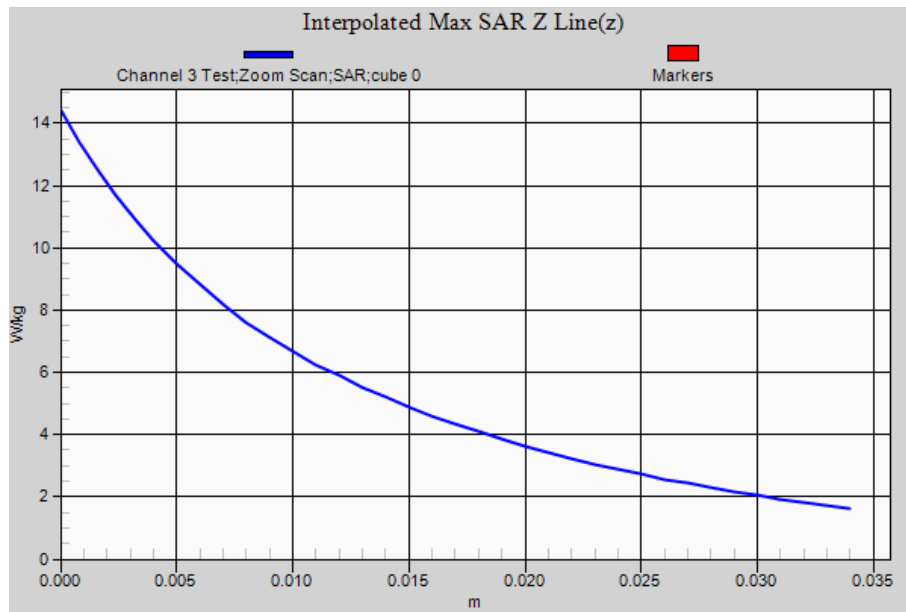
Body Battery Clip 16 Key 24-03-14/Channel 3 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 69.984 V/m; **Power Drift = -0.14 dB**

Averaged SAR: SAR(1g) = 10.100 W/kg; SAR(10g) = 7.110 W/kg

Maximum value of SAR (interpolated) = 14.400 W/kg



SAR Measurement Plot 3



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Whip FCC.da52:0

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Battery Clip 16 Key 24-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 496.5 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=496.5$ MHz; $\sigma = 0.96$ S/m; $\epsilon_r = 55.4$; $\rho = 1000.0$ g/cm³
 Phantom section: Flat Section

DASY Configuration:

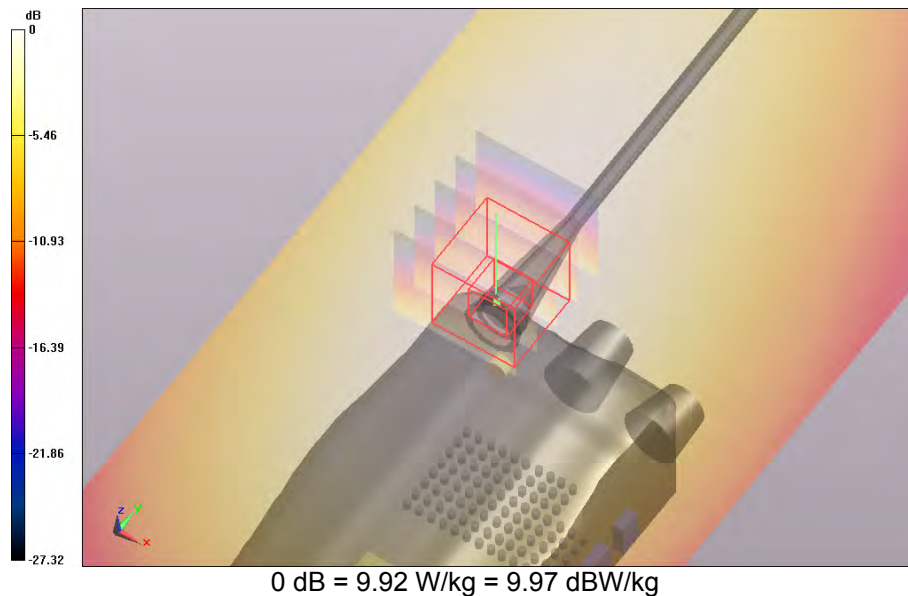
Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Battery Clip 16 Key 24-03-14/Channel 4 Test/Area Scan (81x221x1): Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 9.920 W/kg

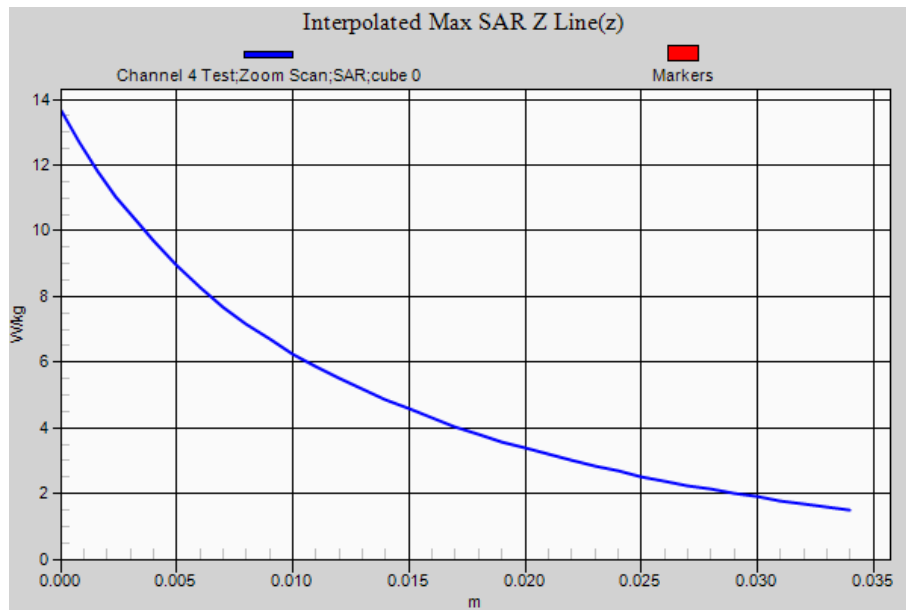
Body Battery Clip 16 Key 24-03-14/Channel 4 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 68.620 V/m; **Power Drift = -0.19 dB**

Averaged SAR: SAR(1g) = 9.440 W/kg; SAR(10g) = 6.540 W/kg

Maximum value of SAR (interpolated) = 13.600 W/kg



SAR Measurement Plot 4



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Whip FCC.da52:0

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Battery Clip 16 Key 24-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 511.9 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=512$ MHz; $\sigma = 0.96$ S/m; $\epsilon_r = 55.2$; $\rho = 1000.0$ g/cm³
 Phantom section: Flat Section

DASY Configuration:

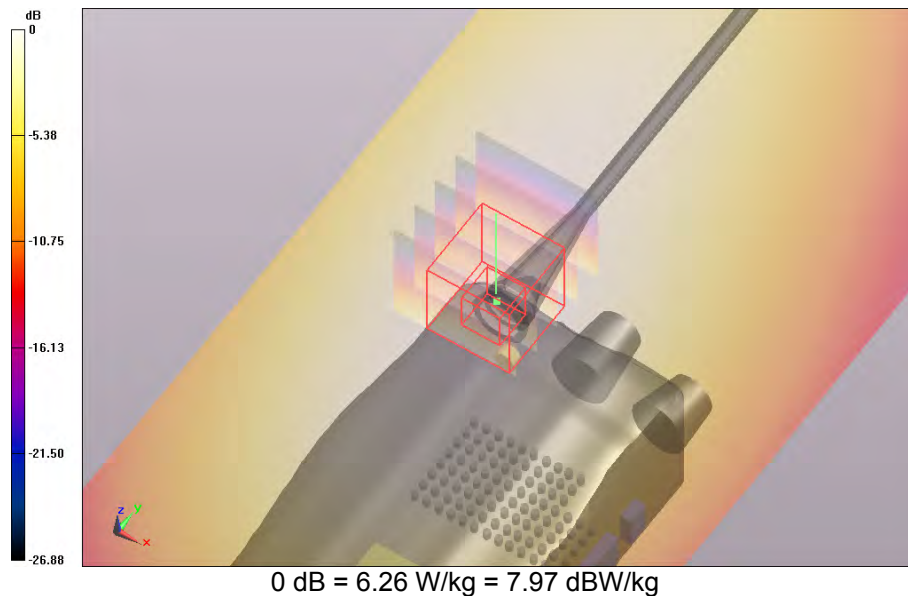
Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Battery Clip 16 Key 24-03-14/Channel 5 Test/Area Scan (81x221x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 6.260 W/kg

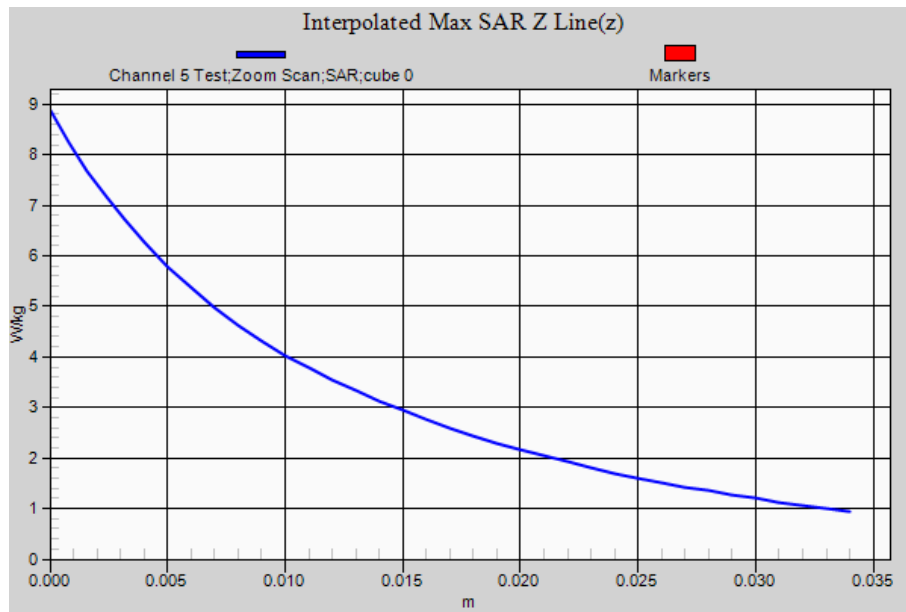
Body Battery Clip 16 Key 24-03-14/Channel 5 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 52.856 V/m; **Power Drift = -0.20 dB**

Averaged SAR: SAR(1g) = 6.100 W/kg; SAR(10g) = 4.220 W/kg

Maximum value of SAR (interpolated) = 8.870 W/kg



SAR Measurement Plot 5



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Whip FCC.da52:1

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Nylon Case Battery Clip 16 Key 24-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 450.1 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=450$ MHz; $\sigma = 0.94$ S/m; $\epsilon_r = 56.4$; $\rho = 1000.0\text{g/cm}^3$
 Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

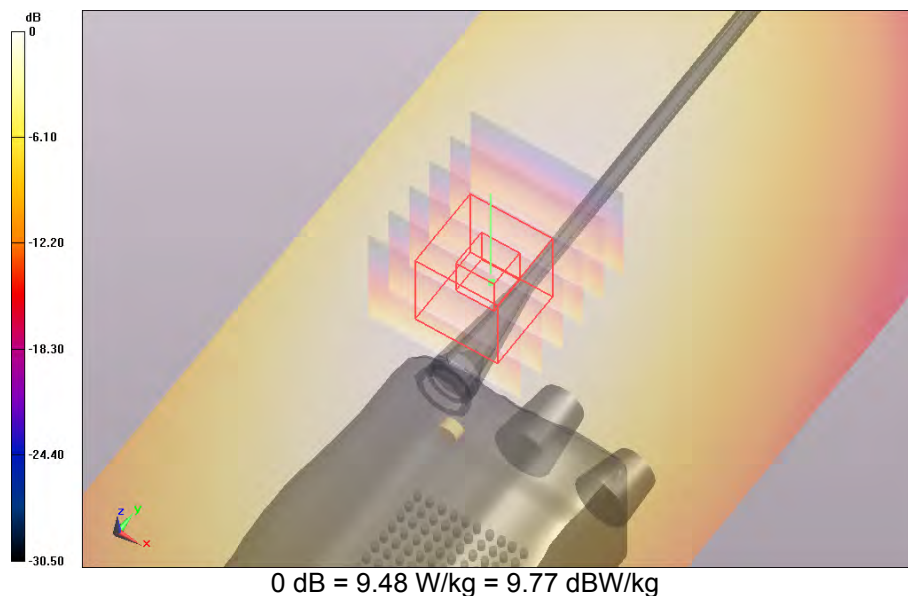
Body Nylon Case Battery Clip 16 Key 24-03-14/Channel 1 Test/Area Scan (81x221x1): Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 9.480 W/kg

Body Nylon Case Battery Clip 16 Key 24-03-14/Channel 1 Test/Zoom Scan (26x26x36)/Cube 0:

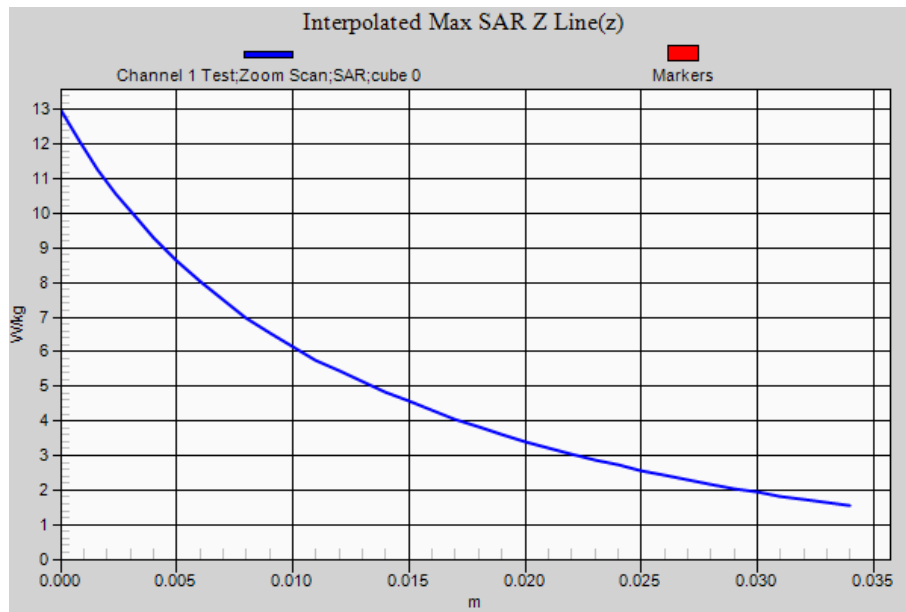
Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 71.869 V/m; **Power Drift = - 0.19 dB**

Averaged SAR: SAR(1g) = 9.340 W/kg; SAR(10g) = 6.630 W/kg

Maximum value of SAR (interpolated) = 13.000 W/kg



SAR Measurement Plot 6



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Whip FCC.da52:1

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Nylon Case Battery Clip 16 Key 24-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 465.5 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=465.5$ MHz; $\sigma = 0.94$ S/m; $\epsilon_r = 56.1$; $\rho = 1000.0\text{g/cm}^3$
 Phantom section: Flat Section

DASY Configuration:

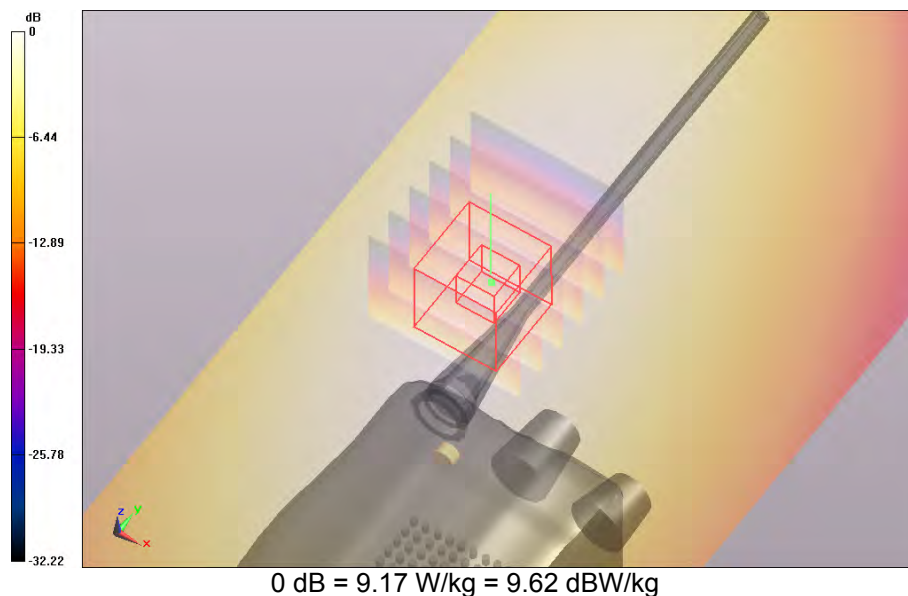
Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Nylon Case Battery Clip 16 Key 24-03-14/Channel 2 Test/Area Scan (81x221x1): Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 9.170 W/kg

Body Nylon Case Battery Clip 16 Key 24-03-14/Channel 2 Test/Zoom Scan (26x26x36)/Cube 0: Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 77.247 V/m; **Power Drift = - 0.09 dB**

Averaged SAR: SAR(1g) = 9.180 W/kg; SAR(10g) = 6.490 W/kg

Maximum value of SAR (interpolated) = 12.900 W/kg

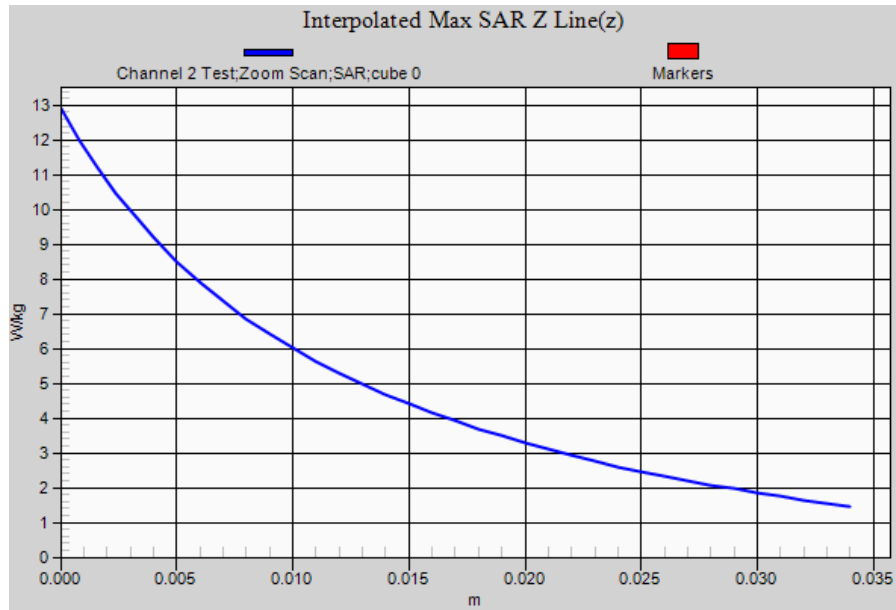


SAR Measurement Plot 7



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Whip FCC.da52:1

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Nylon Case Battery Clip 16 Key 24-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 481.0 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=481$ MHz; $\sigma = 0.95$ S/m; $\epsilon_r = 55.8$; $\rho = 1000.0\text{g/cm}^3$
 Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

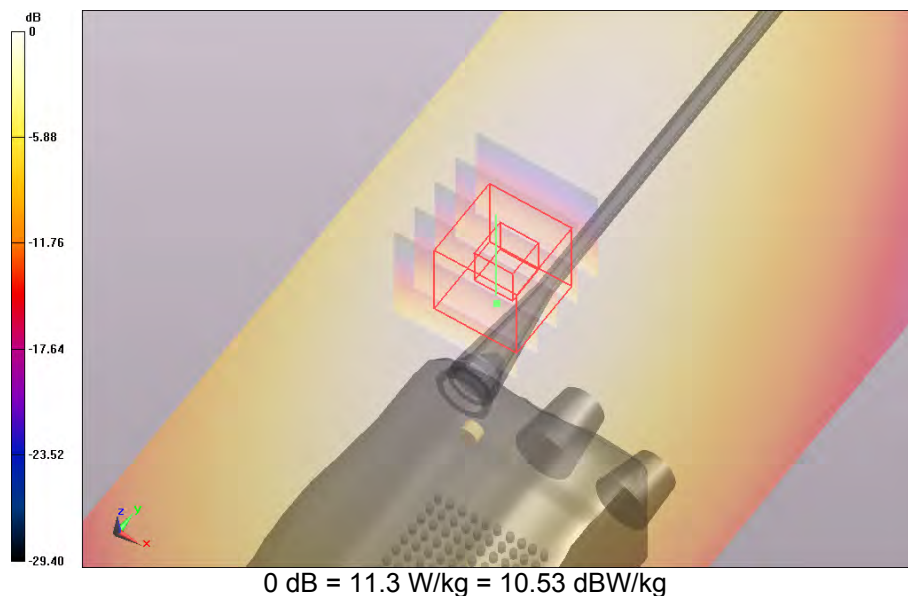
Body Nylon Case Battery Clip 16 Key 24-03-14/Channel 3 Test/Area Scan (81x221x1): Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 11.300 W/kg

Body Nylon Case Battery Clip 16 Key 24-03-14/Channel 3 Test/Zoom Scan (21x21x36)/Cube 0:

Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 91.031 V/m; **Power Drift = - 0.18 dB**

Averaged SAR: SAR(1g) = 10.900 W/kg; SAR(10g) = 7.710 W/kg

Maximum value of SAR (interpolated) = 15.500 W/kg

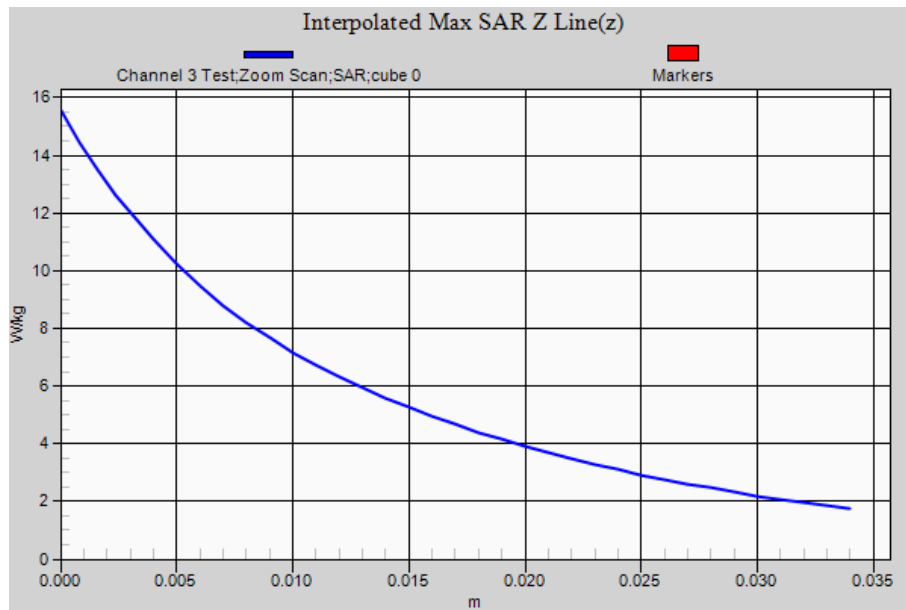


SAR Measurement Plot 8



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Whip FCC.da52:1

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Nylon Case Battery Clip 16 Key 24-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 496.5 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=496.5$ MHz; $\sigma = 0.96$ S/m; $\epsilon_r = 55.4$; $\rho = 1000.0$ g/cm³
 Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

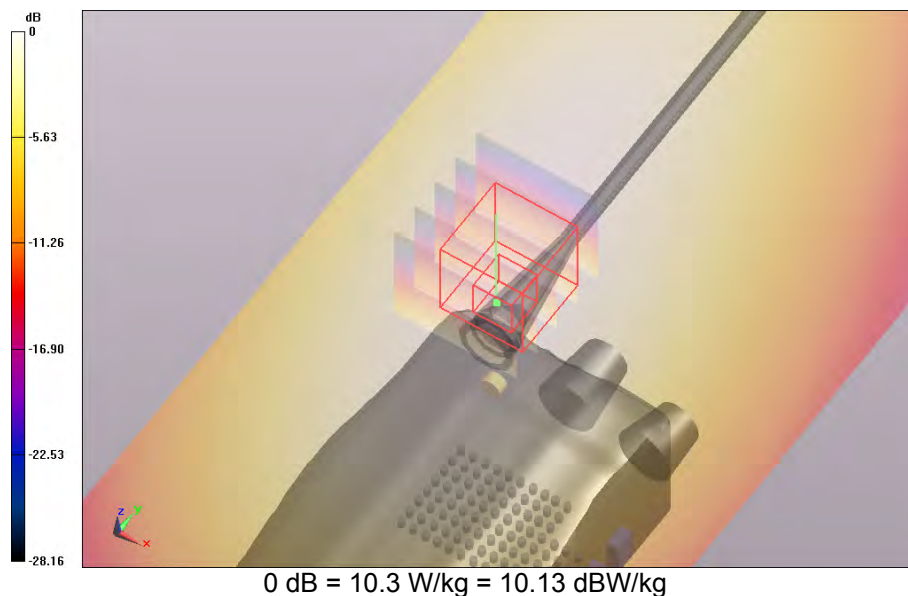
Body Nylon Case Battery Clip 16 Key 24-03-14/Channel 4 Test/Area Scan (81x221x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 10.300 W/kg

Body Nylon Case Battery Clip 16 Key 24-03-14/Channel 4 Test/Zoom Scan (21x21x36)/Cube 0:

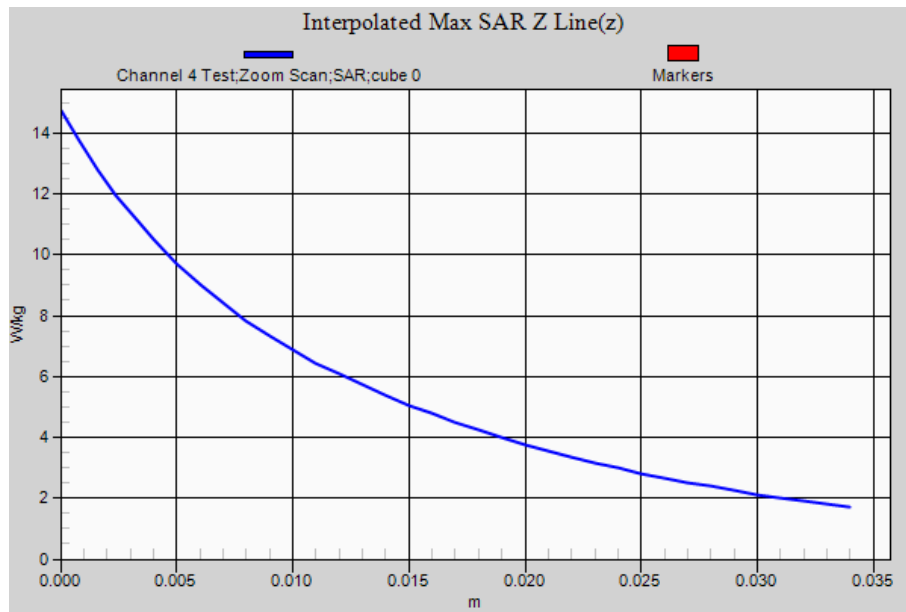
Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 79.017 V/m; **Power Drift = - 0.14 dB**

Averaged SAR: SAR(1g) = 10.300 W/kg; SAR(10g) = 7.190 W/kg

Maximum value of SAR (interpolated) = 14.700 W/kg



SAR Measurement Plot 9



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Whip FCC.da52:1

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Nylon Case Battery Clip 16 Key 24-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 511.9 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=512$ MHz; $\sigma = 0.96$ S/m; $\epsilon_r = 55.2$; $\rho = 1000.0$ g/cm³
 Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

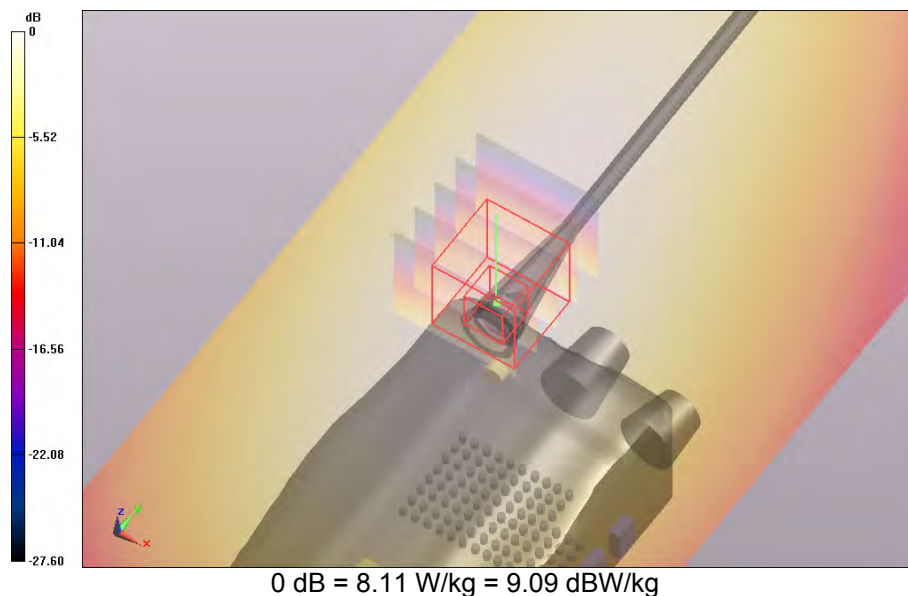
Body Nylon Case Battery Clip 16 Key 24-03-14/Channel 5 Test/Area Scan (81x221x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 8.110 W/kg

Body Nylon Case Battery Clip 16 Key 24-03-14/Channel 5 Test/Zoom Scan (21x21x36)/Cube 0:

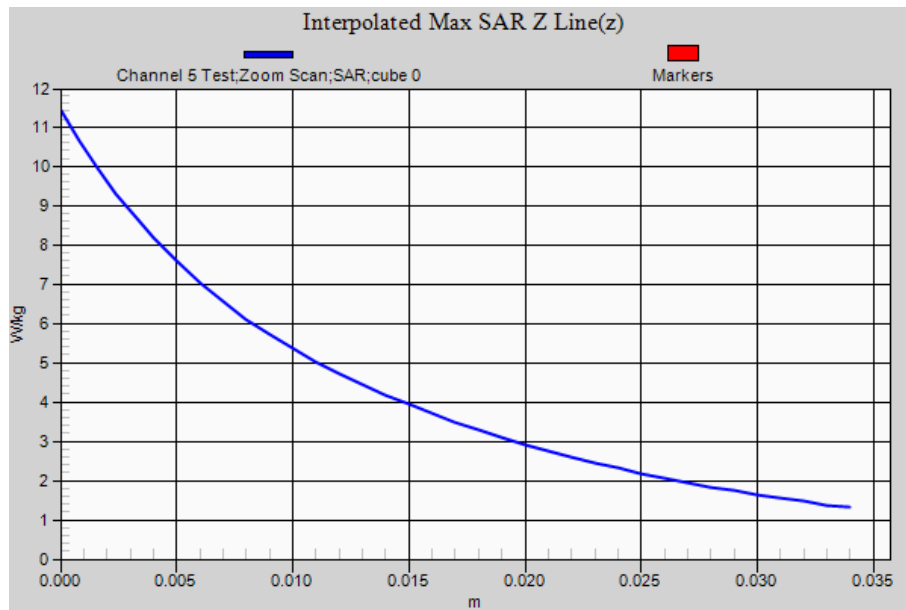
Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 66.859 V/m; **Power Drift = - 0.18 dB**

Averaged SAR: SAR(1g) = 7.960 W/kg; SAR(10g) = 5.570 W/kg

Maximum value of SAR (interpolated) = 11.400 W/kg



SAR Measurement Plot 10



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Whip FCC.da52:2

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Nylon Case Belt Loop 16 Key 25-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 450.1 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=450$ MHz; $\sigma = 0.91$ S/m; $\epsilon_r = 55.7$; $\rho = 1000.0\text{g/cm}^3$
 Phantom section: Flat Section

DASY Configuration:

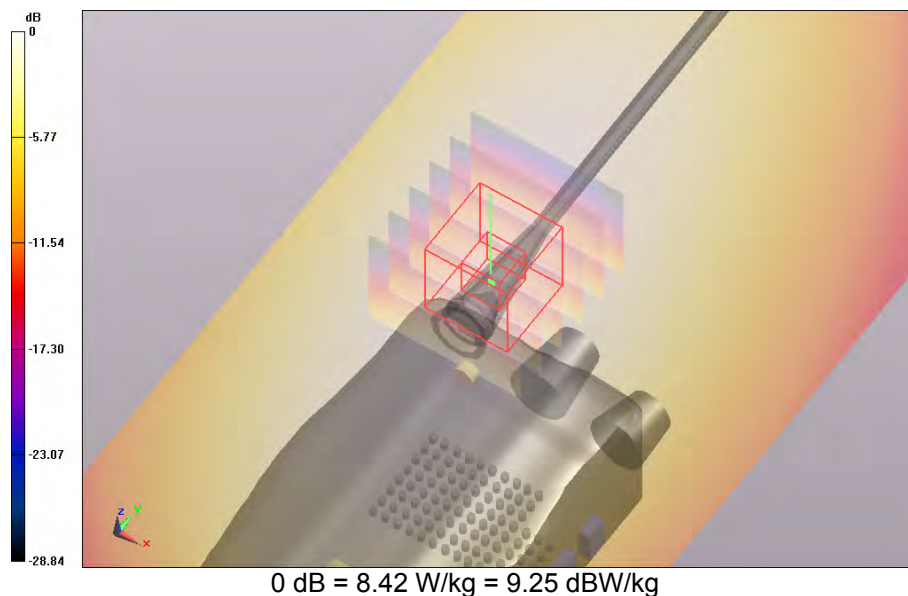
Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Nylon Case Belt Loop 16 Key 25-03-14/Channel 1 Test/Area Scan (81x221x1): Interpolated grid:
 $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 8.420 W/kg

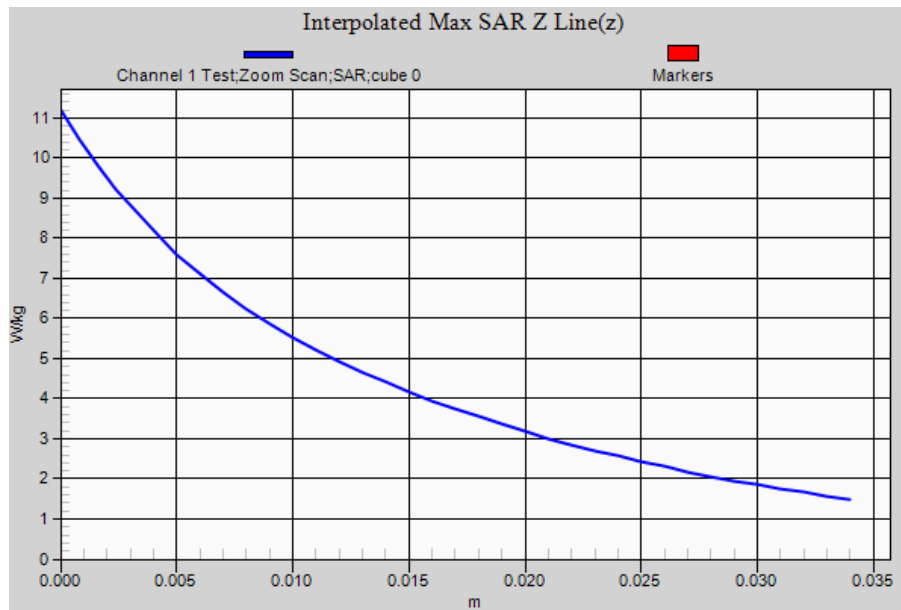
Body Nylon Case Belt Loop 16 Key 25-03-14/Channel 1 Test/Zoom Scan (26x26x36)/Cube 0:
 Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 66.752 V/m; **Power Drift = - 0.19 dB**

Averaged SAR: SAR(1g) = 8.370 W/kg; SAR(10g) = 5.990 W/kg

Maximum value of SAR (interpolated) = 11.200 W/kg



SAR Measurement Plot 11



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Whip FCC.da52:2

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Nylon Case Belt Loop 16 Key 25-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 465.5 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=465.5$ MHz; $\sigma = 0.92$ S/m; $\epsilon_r = 55.5$; $\rho = 1000.0\text{g/cm}^3$
 Phantom section: Flat Section

DASY Configuration:

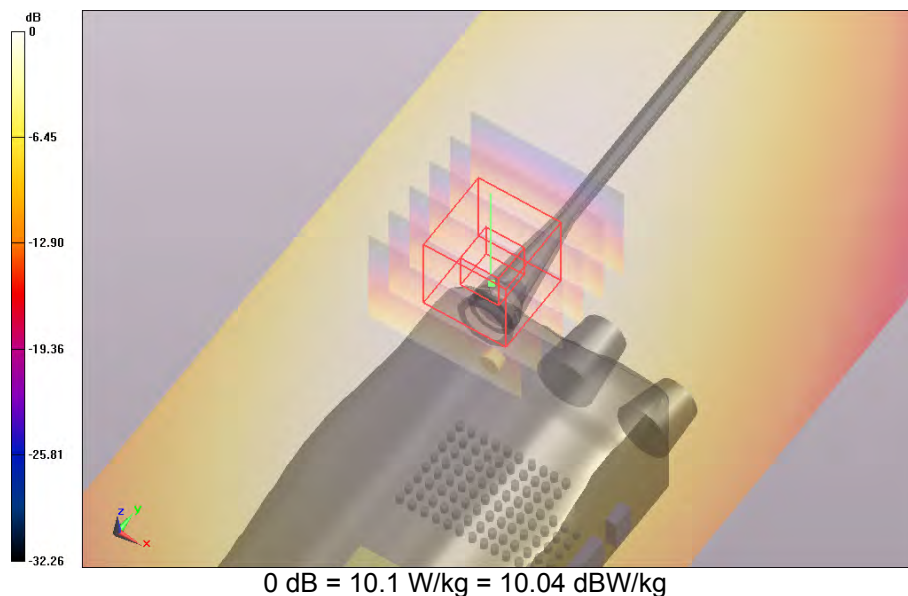
Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Nylon Case Belt Loop 16 Key 25-03-14/Channel 2 Test/Area Scan (81x221x1): Interpolated grid:
 $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 10.100 W/kg

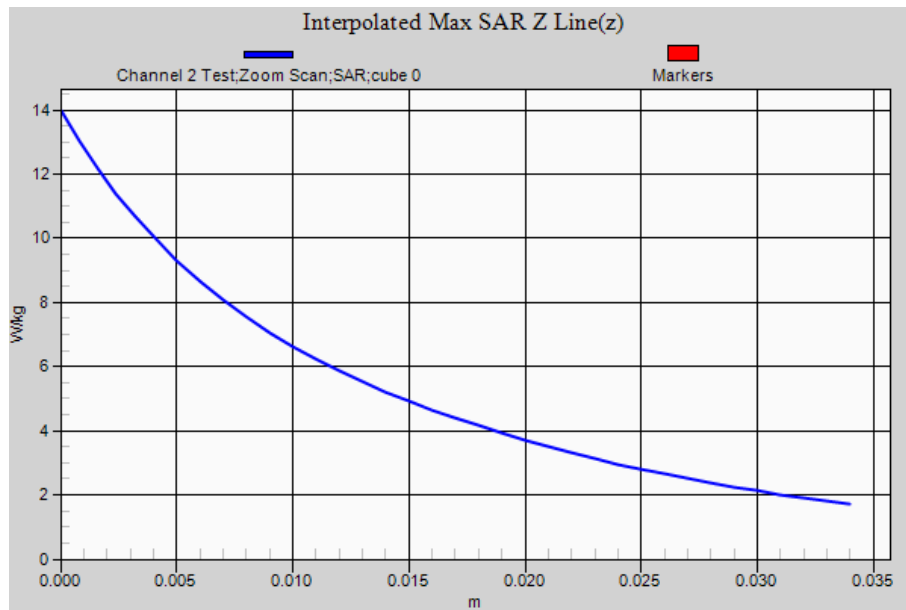
Body Nylon Case Belt Loop 16 Key 25-03-14/Channel 2 Test/Zoom Scan (26x26x36)/Cube 0:
 Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 71.942 V/m; **Power Drift = - 0.12 dB**

Averaged SAR: SAR(1g) = 10.200 W/kg; SAR(10g) = 7.220 W/kg

Maximum value of SAR (interpolated) = 14.000 W/kg



SAR Measurement Plot 12



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Whip FCC.da52:2

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Nylon Case Belt Loop 16 Key 25-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 481.0 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=481$ MHz; $\sigma = 0.93$ S/m; $\epsilon_r = 55.2$; $\rho = 1000.0\text{g/cm}^3$
 Phantom section: Flat Section

DASY Configuration:

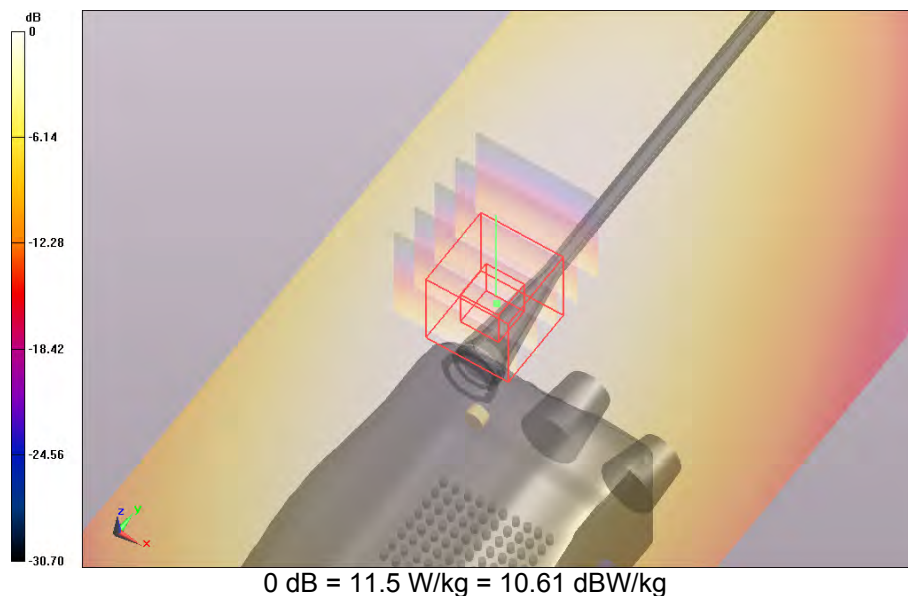
Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Nylon Case Belt Loop 16 Key 25-03-14/Channel 3 Test/Area Scan (81x221x1): Interpolated grid:
 $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 11.500 W/kg

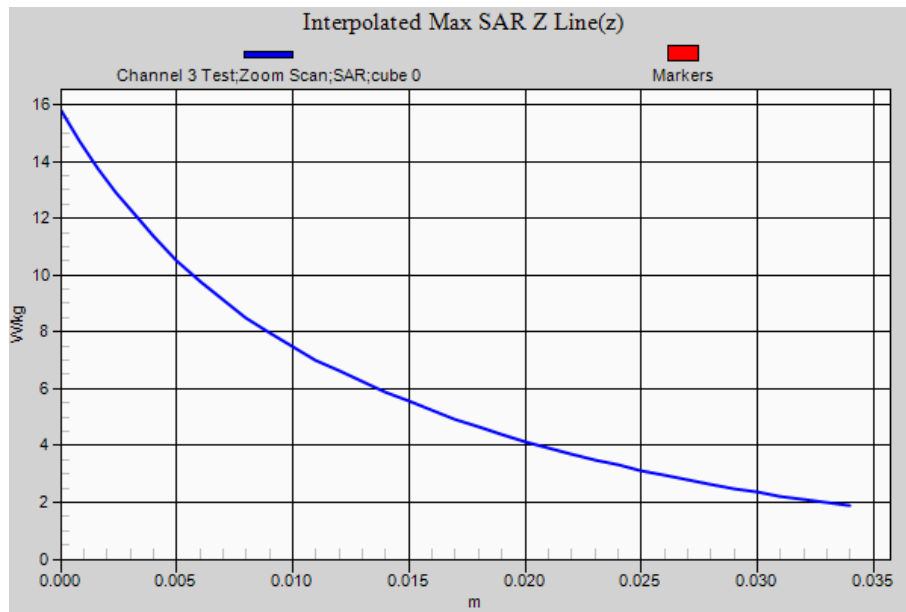
Body Nylon Case Belt Loop 16 Key 25-03-14/Channel 3 Test/Zoom Scan (21x21x36)/Cube 0:
 Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 84.126 V/m; **Power Drift = - 0.09 dB**

Averaged SAR: SAR(1g) = 11.300 W/kg; SAR(10g) = 8.010 W/kg

Maximum value of SAR (interpolated) = 15.800 W/kg



SAR Measurement Plot 13



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Whip FCC.da52:2

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Nylon Case Belt Loop 16 Key 25-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 496.5 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=496.5$ MHz; $\sigma = 0.94$ S/m; $\epsilon_r = 54.9$; $\rho = 1000.0\text{g/cm}^3$
 Phantom section: Flat Section

DASY Configuration:

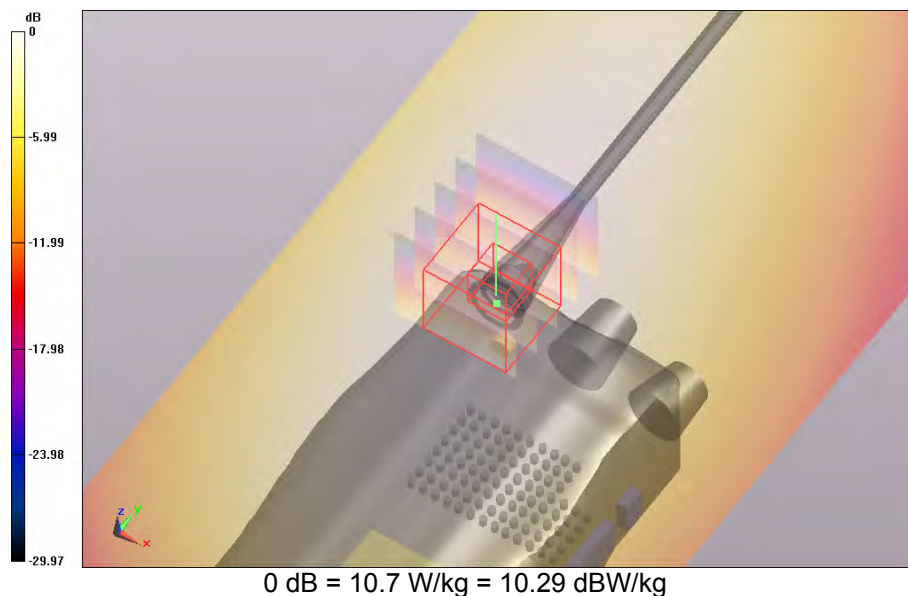
Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Nylon Case Belt Loop 16 Key 25-03-14/Channel 4 Test/Area Scan (81x221x1): Interpolated grid:
 $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 10.700 W/kg

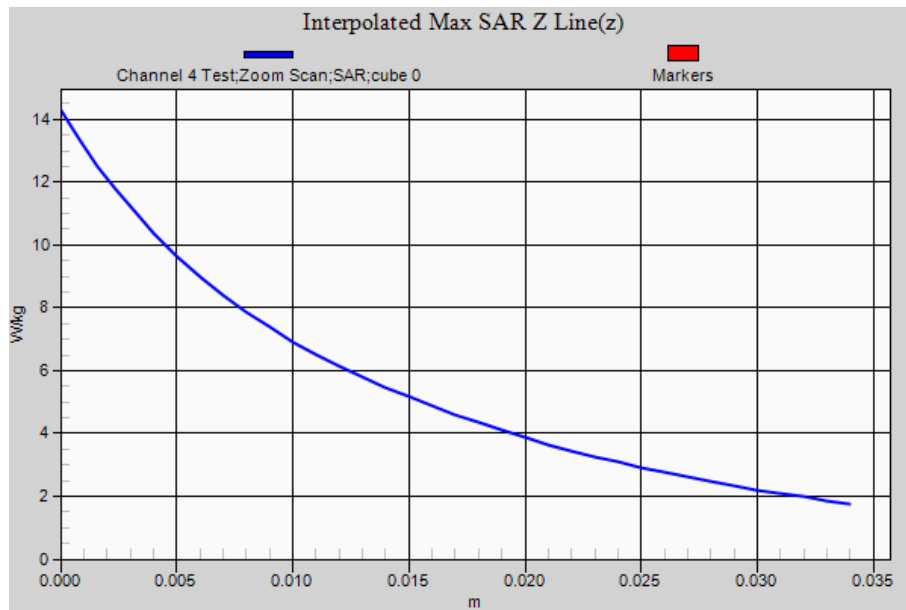
Body Nylon Case Belt Loop 16 Key 25-03-14/Channel 4 Test/Zoom Scan (21x21x36)/Cube 0:
 Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 73.194 V/m; **Power Drift = - 0.00 dB**

Averaged SAR: SAR(1g) = 10.300 W/kg; SAR(10g) = 7.410 W/kg

Maximum value of SAR (interpolated) = 14.300 W/kg



SAR Measurement Plot 14



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Whip FCC.da52:2

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Nylon Case Belt Loop 16 Key 25-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 511.9 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=512$ MHz; $\sigma = 0.95$ S/m; $\epsilon_r = 54.6$; $\rho = 1000.0$ g/cm³
 Phantom section: Flat Section

DASY Configuration:

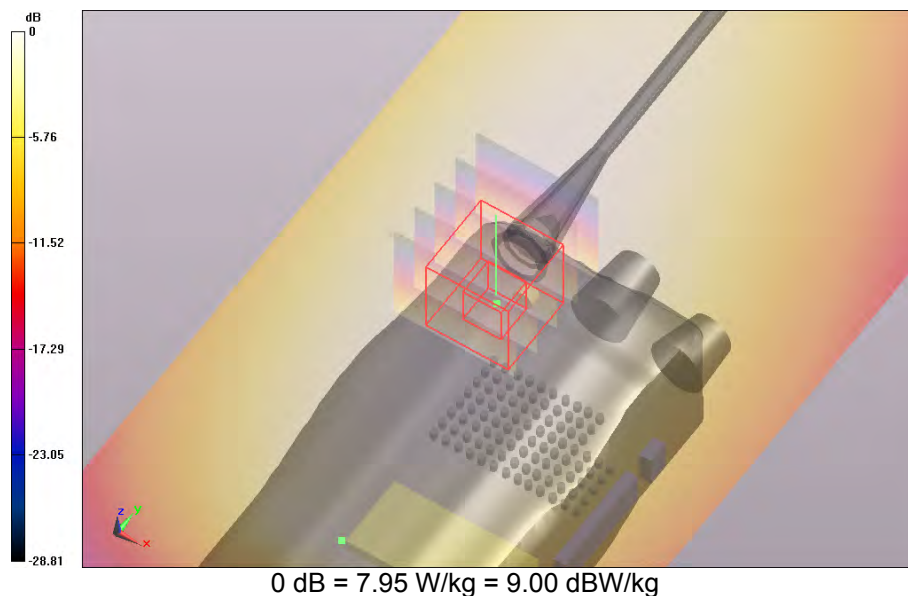
Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Nylon Case Belt Loop 16 Key 25-03-14/Channel 5 Test/Area Scan (81x221x1): Interpolated grid:
 $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 7.950 W/kg

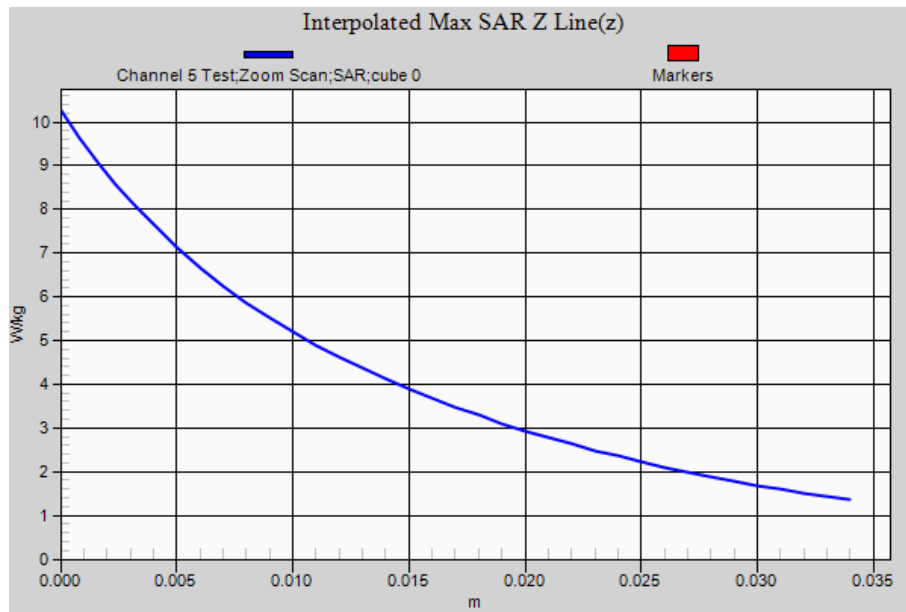
Body Nylon Case Belt Loop 16 Key 25-03-14/Channel 5 Test/Zoom Scan (21x21x36)/Cube 0:
 Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 57.160 V/m; **Power Drift = - 0.17 dB**

Averaged SAR: SAR(1g) = 7.520 W/kg; SAR(10g) = 5.410 W/kg

Maximum value of SAR (interpolated) = 10.300 W/kg



SAR Measurement Plot 15



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Whip FCC.da52:3

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Nylon Case Belt Loop 16 Key 03-06-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 459.9 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=460$ MHz; $\sigma = 0.97$ S/m; $\epsilon_r = 57.6$; $\rho = 1000.0\text{g/cm}^3$
 Phantom section: Flat Section

DASY Configuration:

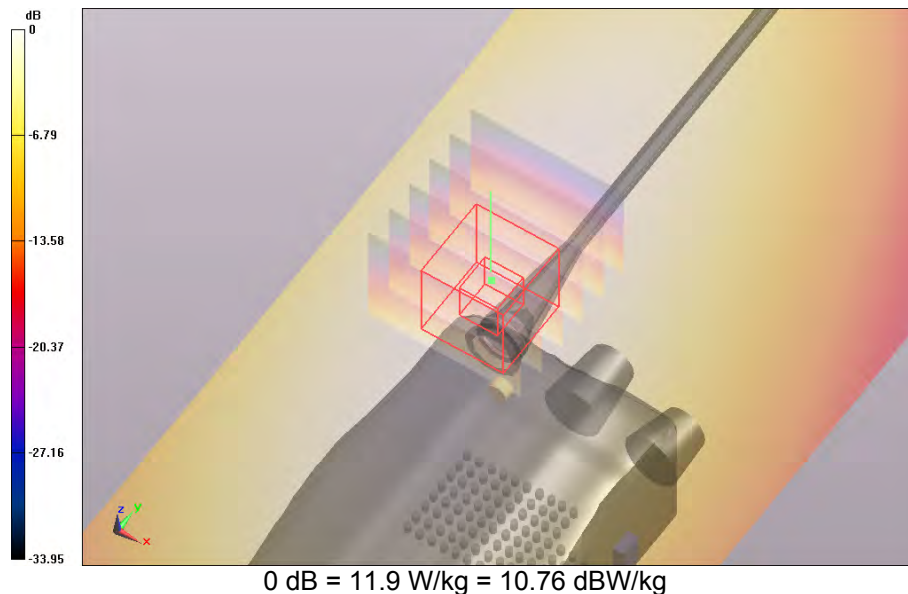
Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection)
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Nylon Case Belt Loop 16 Key 03-06-14/Channel 6 Test/Area Scan (81x221x1): Interpolated grid:
 $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 11.900 W/kg

Body Nylon Case Belt Loop 16 Key 03-06-14/Channel 6 Test/Zoom Scan (26x26x36)/Cube 0:
 Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 74.140 V/m; **Power Drift = - 0.10 dB**

Averaged SAR: SAR(1g) = 10.900 W/kg; SAR(10g) = 7.750 W/kg

Maximum value of SAR (interpolated) = 16.100 W/kg

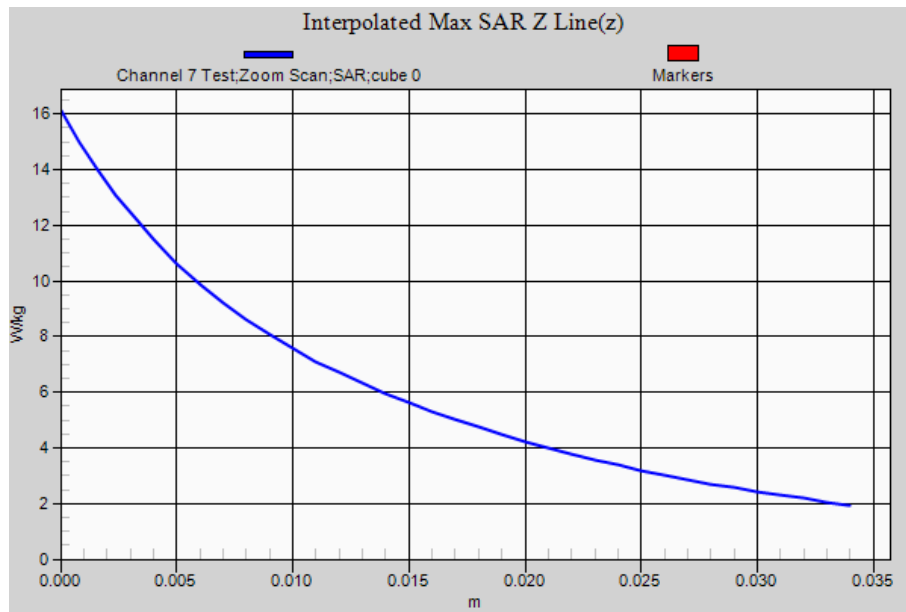


SAR Measurement Plot 16



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Whip FCC.da52:3

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Nylon Case Belt Loop 16 Key 03-06-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 469.9 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=470$ MHz; $\sigma = 0.98$ S/m; $\epsilon_r = 57.4$; $\rho = 1000.0$ g/cm³
 Phantom section: Flat Section

DASY Configuration:

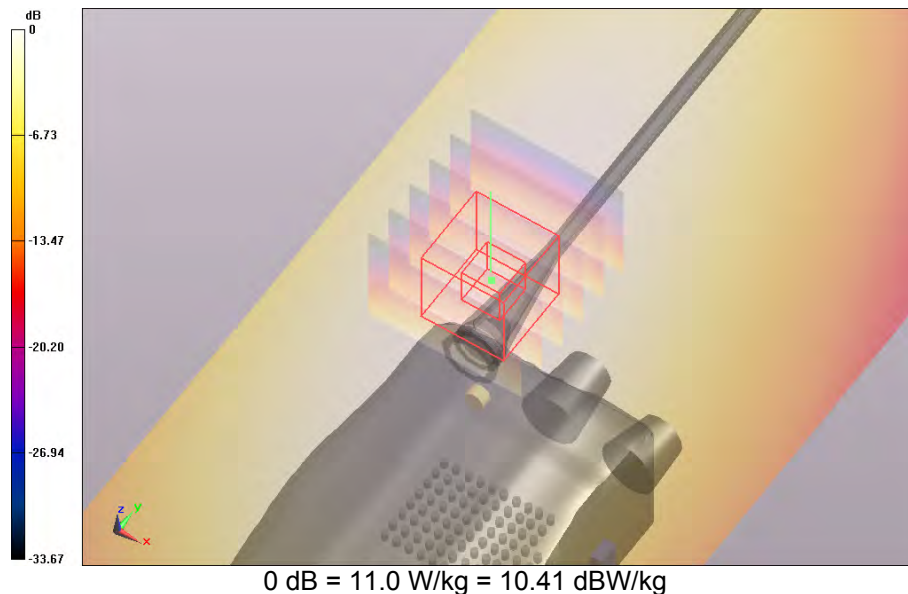
Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Nylon Case Belt Loop 16 Key 03-06-14/Channel 7 Test/Area Scan (81x221x1): Interpolated grid:
 $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 11.000 W/kg

Body Nylon Case Belt Loop 16 Key 03-06-14/Channel 7 Test/Zoom Scan (26x26x36)/Cube 0:
 Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 78.826 V/m; **Power Drift = - 0.04 dB**

Averaged SAR: SAR(1g) = 10.400 W/kg; SAR(10g) = 7.460 W/kg

Maximum value of SAR (interpolated) = 15.300 W/kg

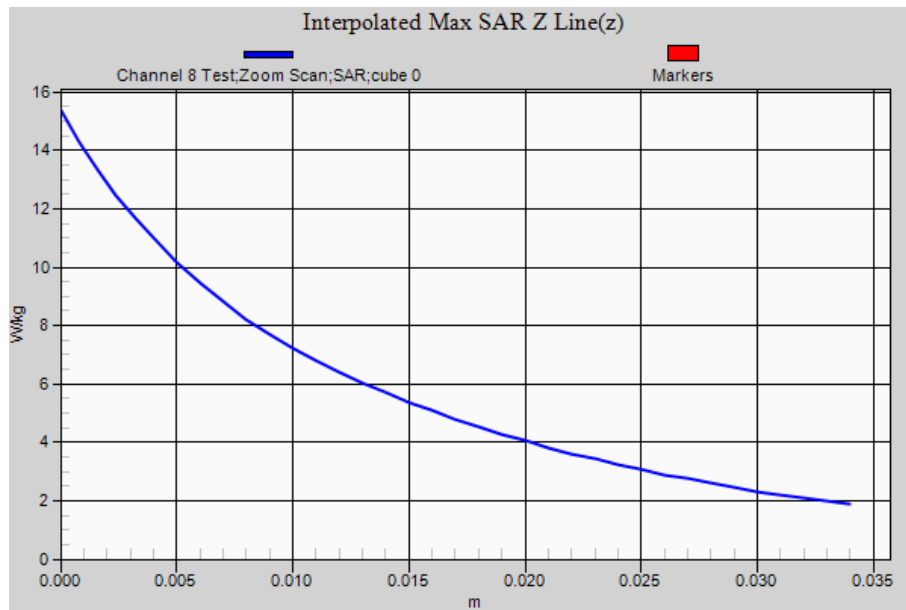


SAR Measurement Plot 17



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Whip FCC.da52:4

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Nylon Case D-Stud Spring Clip 16 Key 25-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 481.0 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=481$ MHz; $\sigma = 0.93$ S/m; $\epsilon_r = 55.2$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

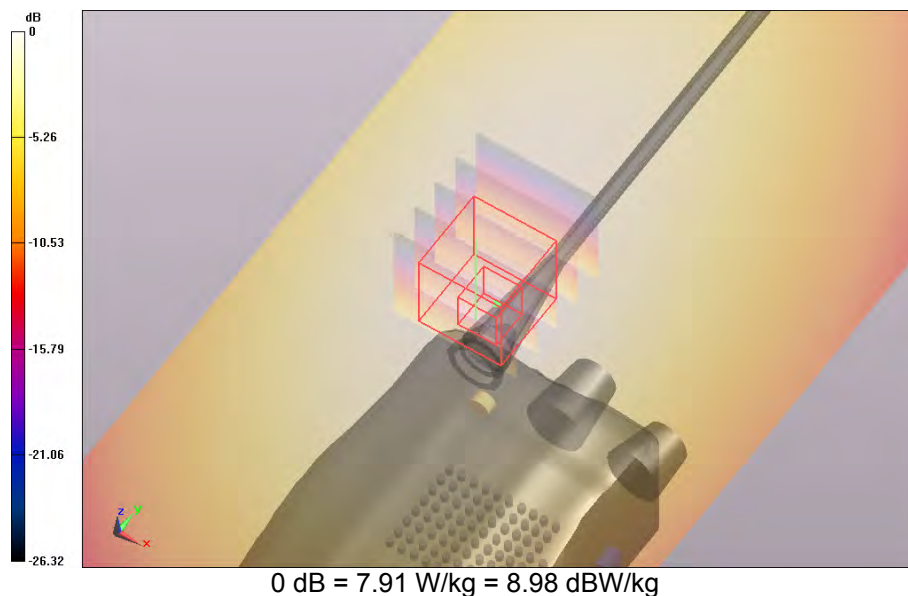
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

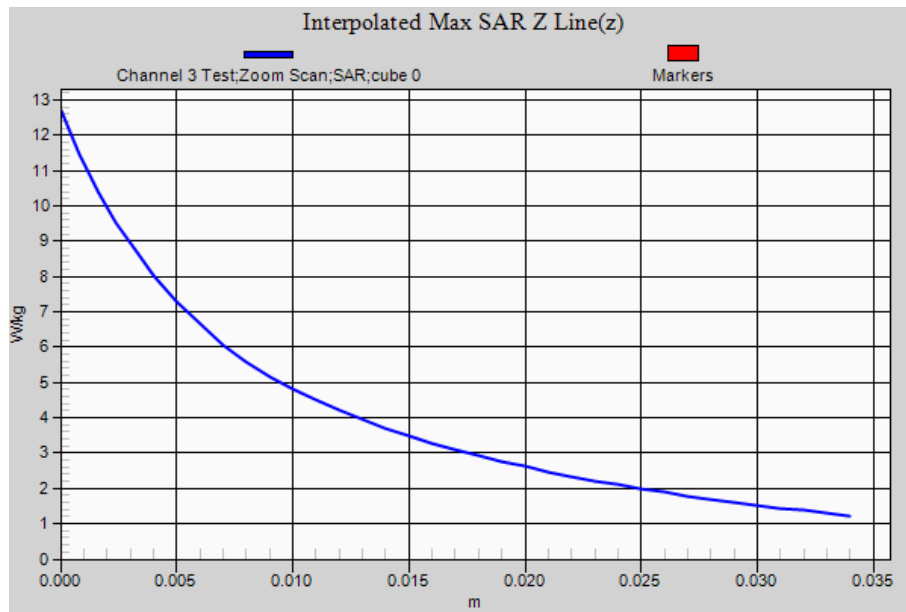
DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Nylon Case D-Stud Spring Clip 16 Key 25-03-14/Channel 3 Test/Area Scan (81x221x1):Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 7.910 W/kg**Body Nylon Case D-Stud Spring Clip 16 Key 25-03-14/Channel 3 Test/Zoom Scan (21x21x36)/Cube****0: Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 58.272 V/m; Power Drift = -0.21 dB****Averaged SAR: SAR(1g) = 7.930 W/kg; SAR(10g) = 5.270 W/kg**

Maximum value of SAR (interpolated) = 12.700 W/kg



SAR Measurement Plot 18



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Whip FCC.da52:5

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Nylon Case D-Stud Belt Loop 16 Key 25-03-14**

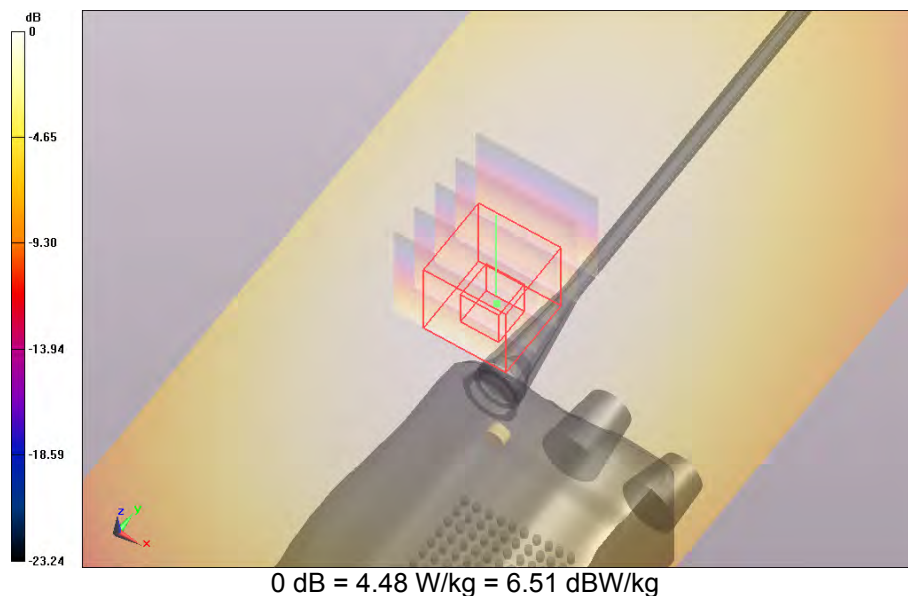
Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 481.0 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=481$ MHz; $\sigma = 0.93$ S/m; $\epsilon_r = 55.2$; $\rho = 1000.0\text{g/cm}^3$
 Phantom section: Flat Section

DASY Configuration:

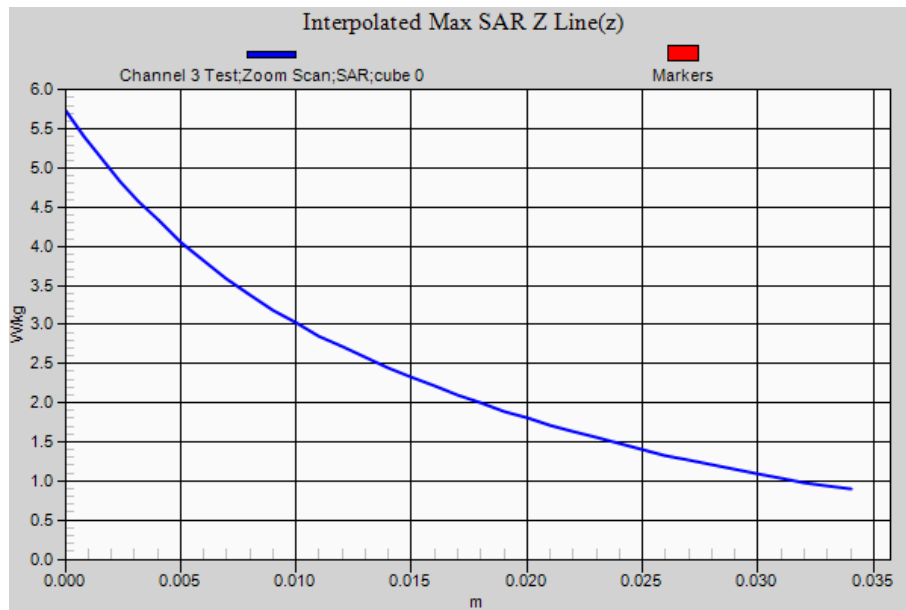
Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Nylon Case D-Stud Belt Loop 16 Key 25-03-14/Channel 3 Test/Area Scan (81x221x1):Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 4.480 W/kg**Body Nylon Case D-Stud Belt Loop 16 Key 25-03-14/Channel 3 Test/Zoom Scan (21x21x36)/Cube 0:**

Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 45.129 V/m; **Power Drift = -0.12 dB**
Averaged SAR: SAR(1g) = 4.370 W/kg; SAR(10g) = 3.230 W/kg
 Maximum value of SAR (interpolated) = 5.730 W/kg



SAR Measurement Plot 19



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Whip FCC.da52:6

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Soft Leather Case Battery Clip 16 Key 25-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 450.1 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=450$ MHz; $\sigma = 0.91$ S/m; $\epsilon_r = 55.7$; $\rho = 1000.0\text{g/cm}^3$

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

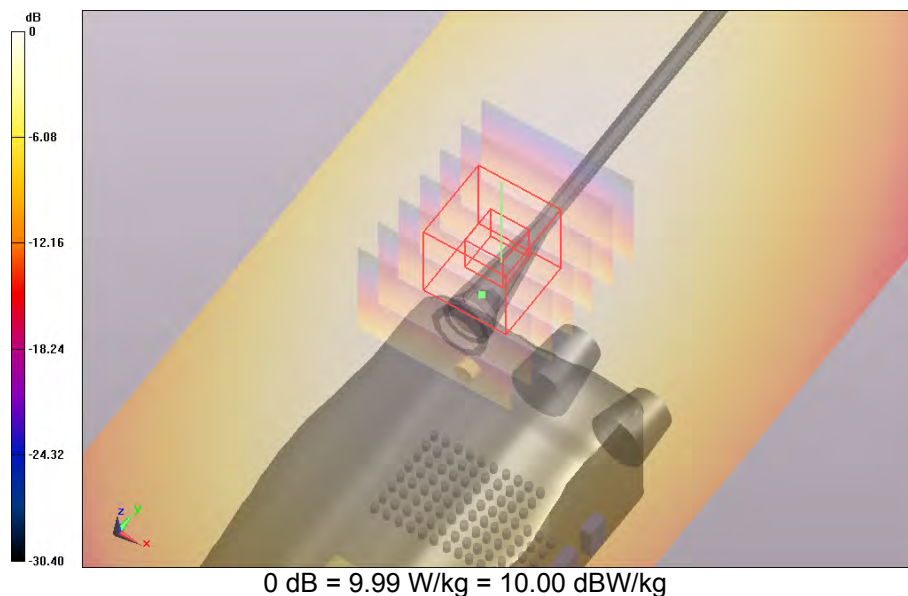
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

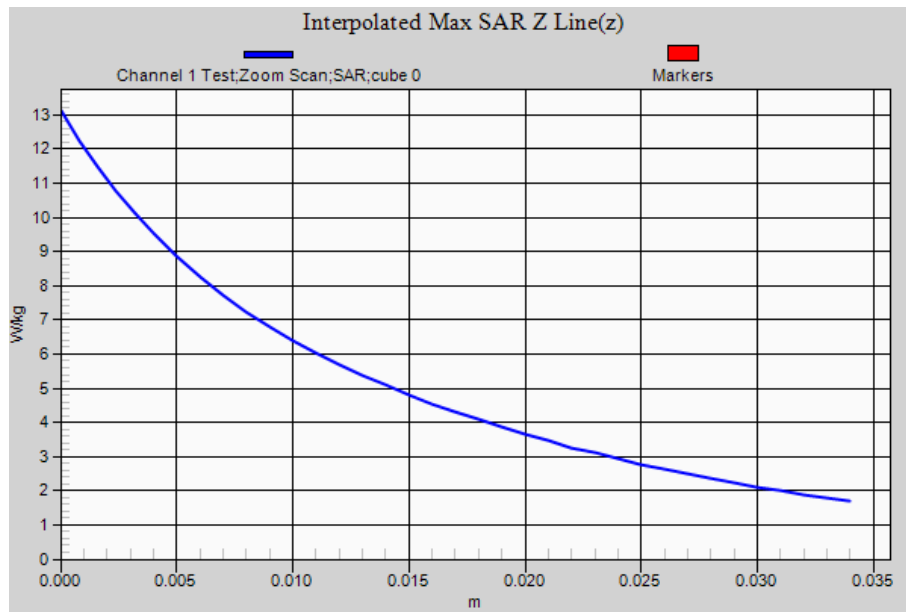
DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Soft Leather Case Battery Clip 16 Key 25-03-14/Channel 1 Test/Area Scan (81x221x1):Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 9.990 W/kg**Body Soft Leather Case Battery Clip 16 Key 25-03-14/Channel 1 Test/Zoom Scan (26x31x36)/Cube 0:** Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 70.057 V/m; **Power Drift = 0.01 dB****Averaged SAR: SAR(1g) = 9.810 W/kg; SAR(10g) = 7.030 W/kg**

Maximum value of SAR (interpolated) = 13.100 W/kg



SAR Measurement Plot 20



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Whip FCC.da52:6

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Soft Leather Case Battery Clip 16 Key 25-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 465.5 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=465.5$ MHz; $\sigma = 0.92$ S/m; $\epsilon_r = 55.5$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

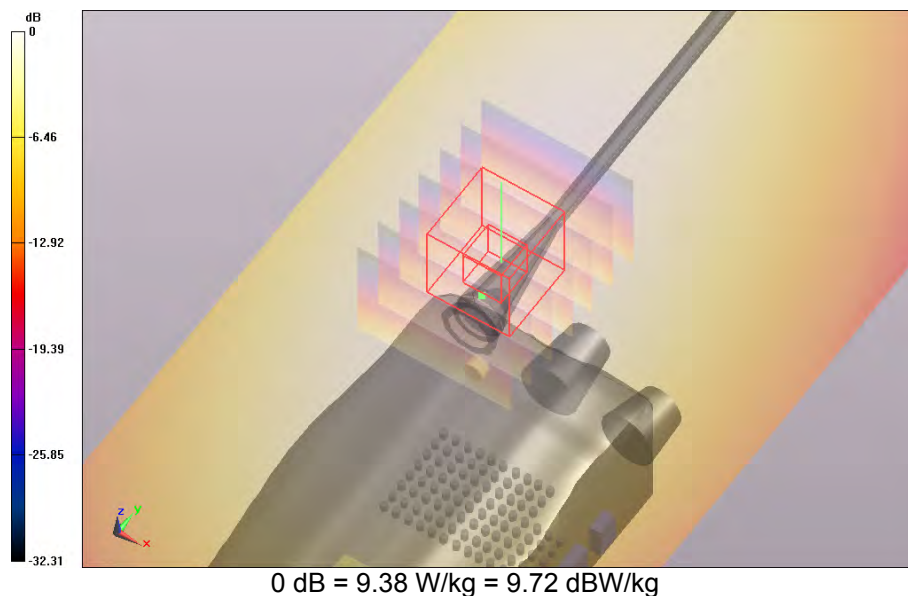
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

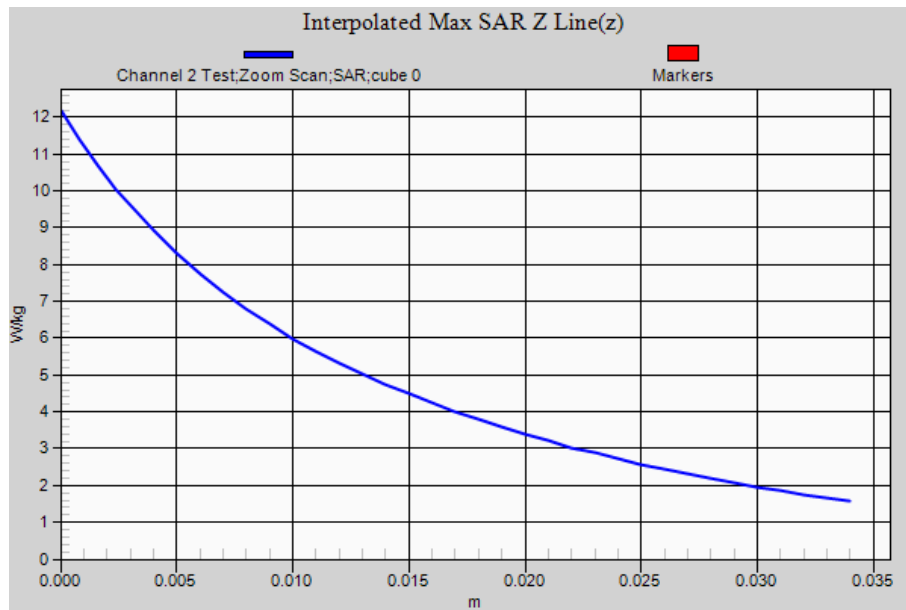
DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Soft Leather Case Battery Clip 16 Key 25-03-14/Channel 2 Test/Area Scan (81x221x1):Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 9.380 W/kg**Body Soft Leather Case Battery Clip 16 Key 25-03-14/Channel 2 Test/Zoom Scan (26x31x36)/Cube 0:** Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 69.094 V/m; **Power Drift = -0.19 dB****Averaged SAR: SAR(1g) = 9.070 W/kg; SAR(10g) = 6.480 W/kg**

Maximum value of SAR (interpolated) = 12.200 W/kg



SAR Measurement Plot 21



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Whip FCC.da52:6

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Soft Leather Case Battery Clip 16 Key 25-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 481.0 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=481$ MHz; $\sigma = 0.93$ S/m; $\epsilon_r = 55.2$; $\rho = 1000.0\text{g/cm}^3$

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

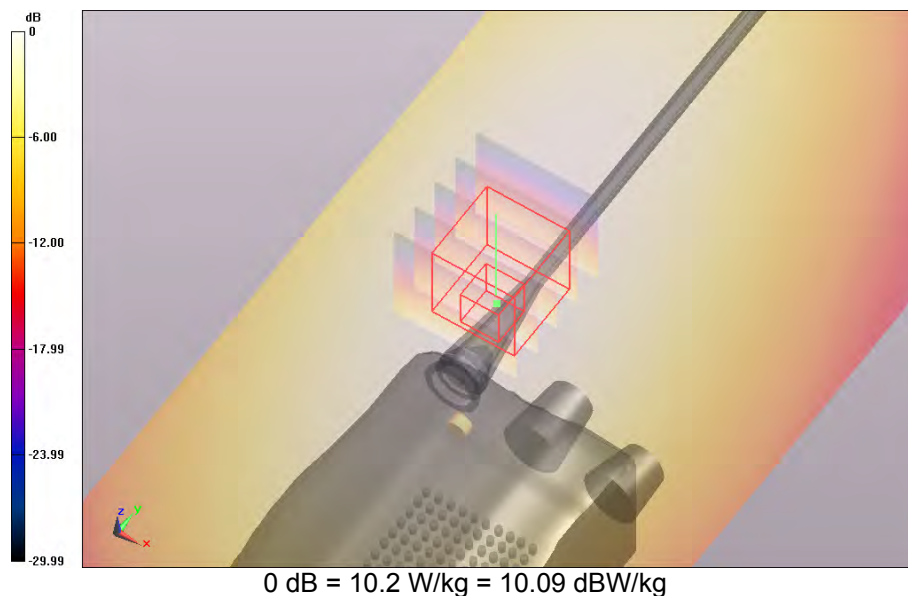
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

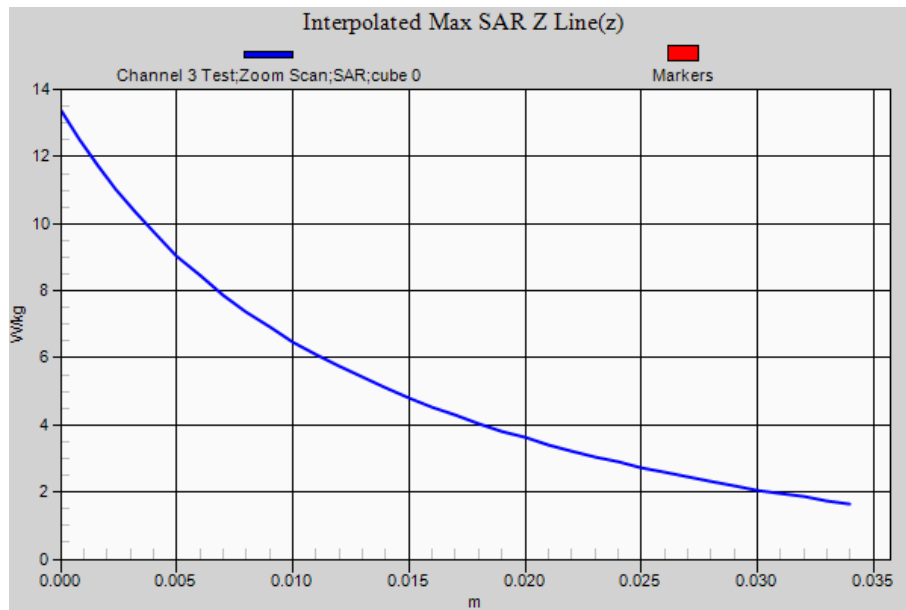
DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Soft Leather Case Battery Clip 16 Key 25-03-14/Channel 3 Test/Area Scan (81x221x1):Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 10.200 W/kg**Body Soft Leather Case Battery Clip 16 Key 25-03-14/Channel 3 Test/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 82.102 V/m; **Power Drift = -0.18 dB****Averaged SAR: SAR(1g) = 9.770 W/kg; SAR(10g) = 6.960 W/kg**

Maximum value of SAR (interpolated) = 13.400 W/kg



SAR Measurement Plot 22



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This document shall not be reproduced except in full.

Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Whip FCC.da52:6

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Soft Leather Case Battery Clip 16 Key 25-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 496.5 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=496.5$ MHz; $\sigma = 0.94$ S/m; $\epsilon_r = 54.9$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

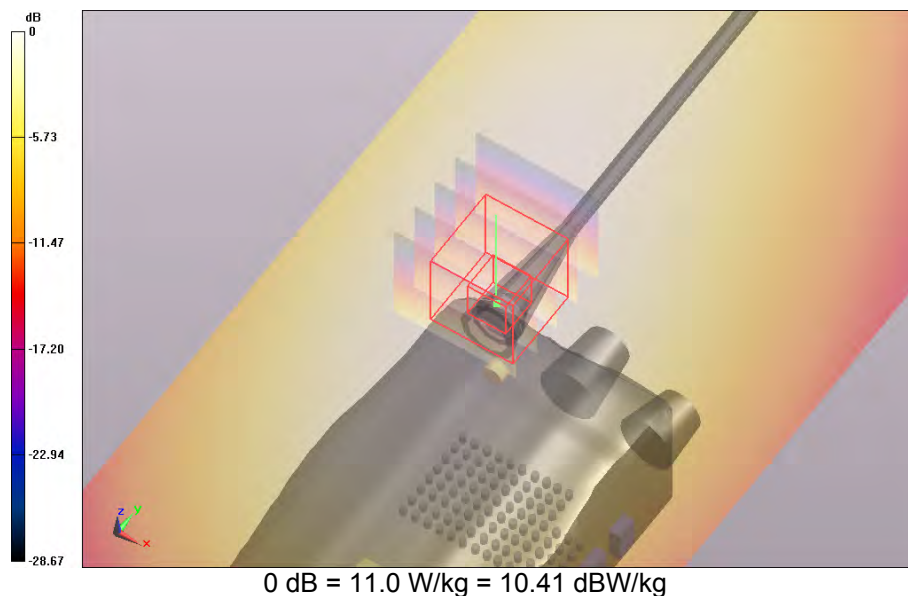
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

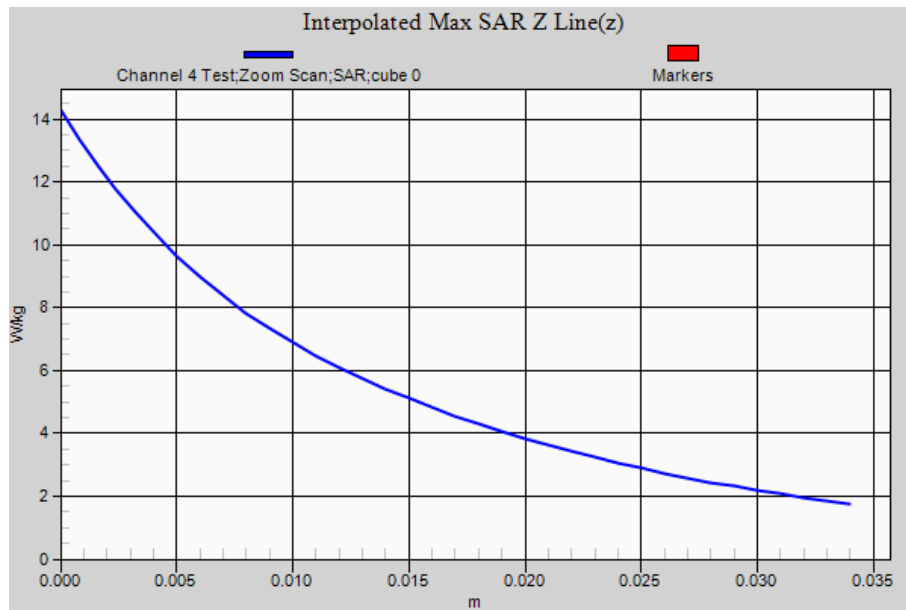
DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Soft Leather Case Battery Clip 16 Key 25-03-14/Channel 4 Test/Area Scan (81x221x1):Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 11.000 W/kg**Body Soft Leather Case Battery Clip 16 Key 25-03-14/Channel 4 Test/Zoom Scan (21x21x36)/Cube****0: Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 75.405 V/m; Power Drift = -0.19 dB****Averaged SAR: SAR(1g) = 10.200 W/kg; SAR(10g) = 7.230 W/kg**

Maximum value of SAR (interpolated) = 14.300 W/kg



SAR Measurement Plot 23



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Whip FCC.da52:6

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Soft Leather Case Battery Clip 16 Key 25-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 511.9 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=512$ MHz; $\sigma = 0.95$ S/m; $\epsilon_r = 54.6$; $\rho = 1000.0\text{g/cm}^3$

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

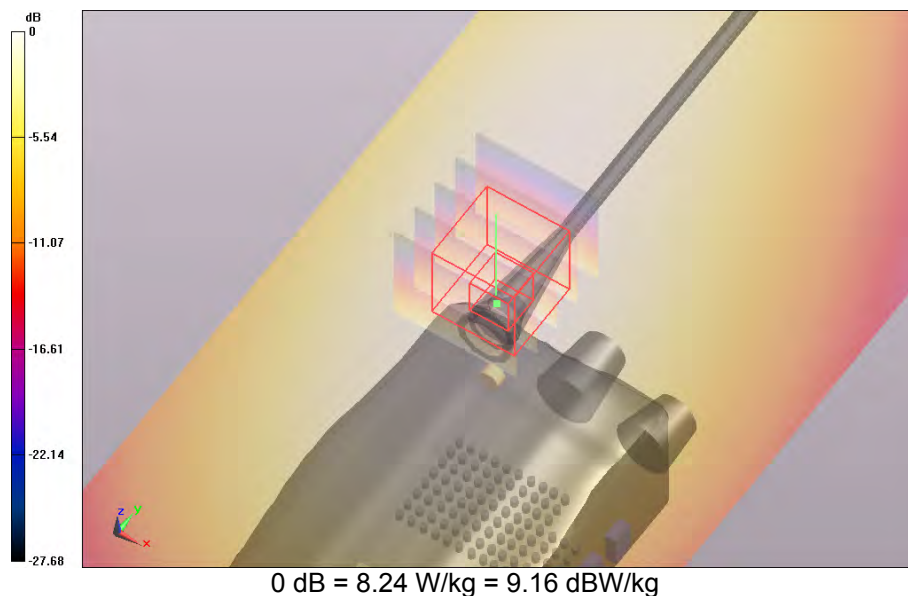
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

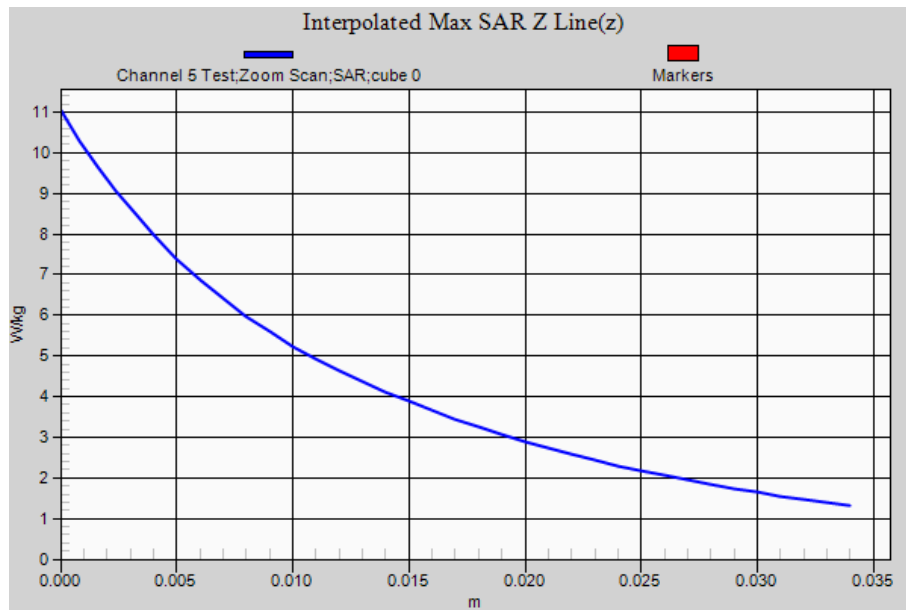
DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Soft Leather Case Battery Clip 16 Key 25-03-14/Channel 5 Test/Area Scan (81x221x1):Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 8.240 W/kg**Body Soft Leather Case Battery Clip 16 Key 25-03-14/Channel 5 Test/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 69.753 V/m; **Power Drift = -0.18 dB****Averaged SAR: SAR(1g) = 7.800 W/kg; SAR(10g) = 5.480 W/kg**

Maximum value of SAR (interpolated) = 11.000 W/kg



SAR Measurement Plot 24



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Whip FCC.da52:7

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Leather Case Spring Clip 16 Key 26-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 450.1 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=450$ MHz; $\sigma = 0.91$ S/m; $\epsilon_r = 55.7$; $\rho = 1000.0$ g/cm³
 Phantom section: Flat Section

DASY Configuration:

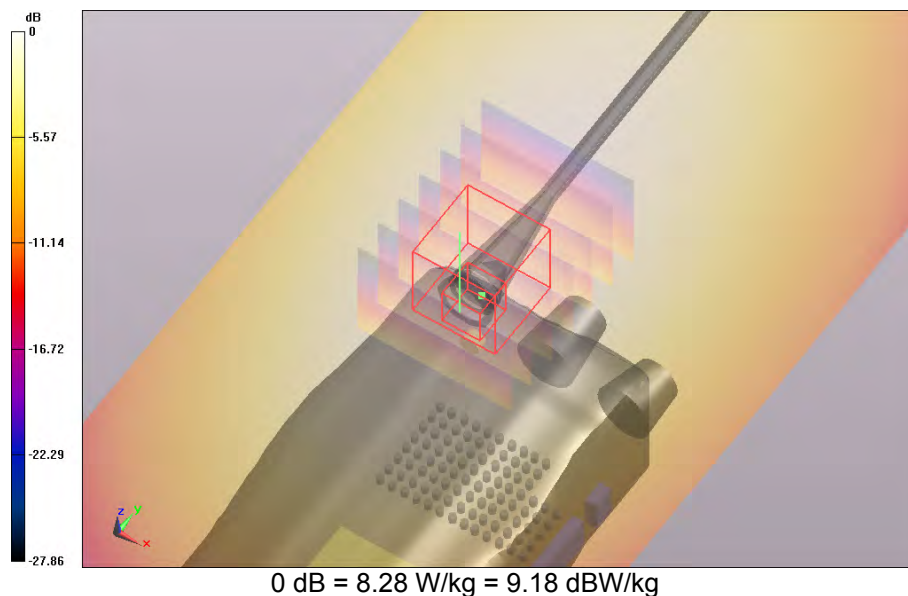
Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Leather Case Spring Clip 16 Key 26-03-14/Channel 1 Test/Area Scan (81x221x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 8.280 W/kg

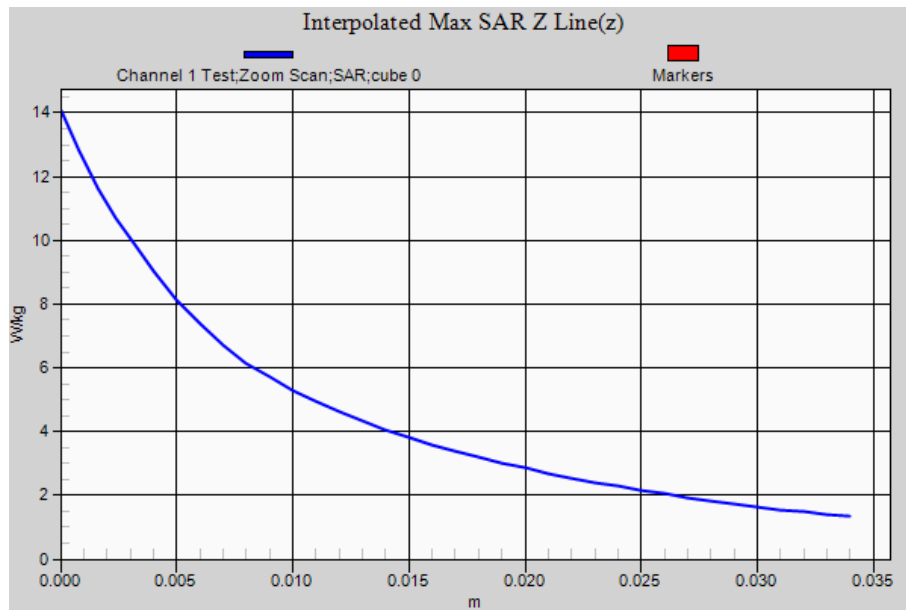
Body Leather Case Spring Clip 16 Key 26-03-14/Channel 1 Test/Zoom Scan (26x31x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 56.584 V/m; **Power Drift = - 0.08 dB**

Averaged SAR: SAR(1g) = 8.870 W/kg; SAR(10g) = 5.820 W/kg

Maximum value of SAR (interpolated) = 14.100 W/kg



SAR Measurement Plot 25



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Whip FCC.da52:7

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Leather Case Spring Clip 16 Key 26-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 465.5 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=465.5$ MHz; $\sigma = 0.92$ S/m; $\epsilon_r = 55.5$; $\rho = 1000.0$ g/cm³
 Phantom section: Flat Section

DASY Configuration:

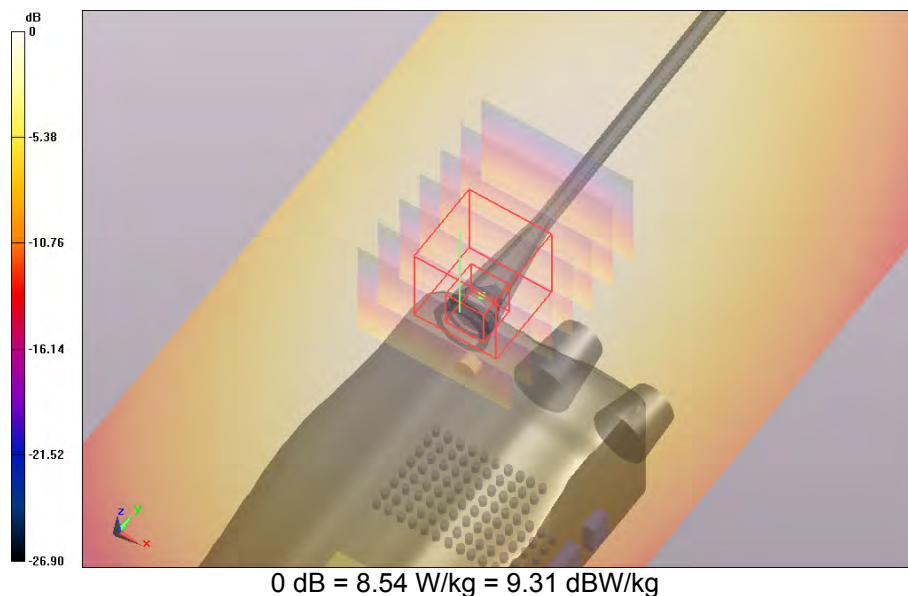
Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Leather Case Spring Clip 16 Key 26-03-14/Channel 2 Test/Area Scan (81x221x1): Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 8.540 W/kg

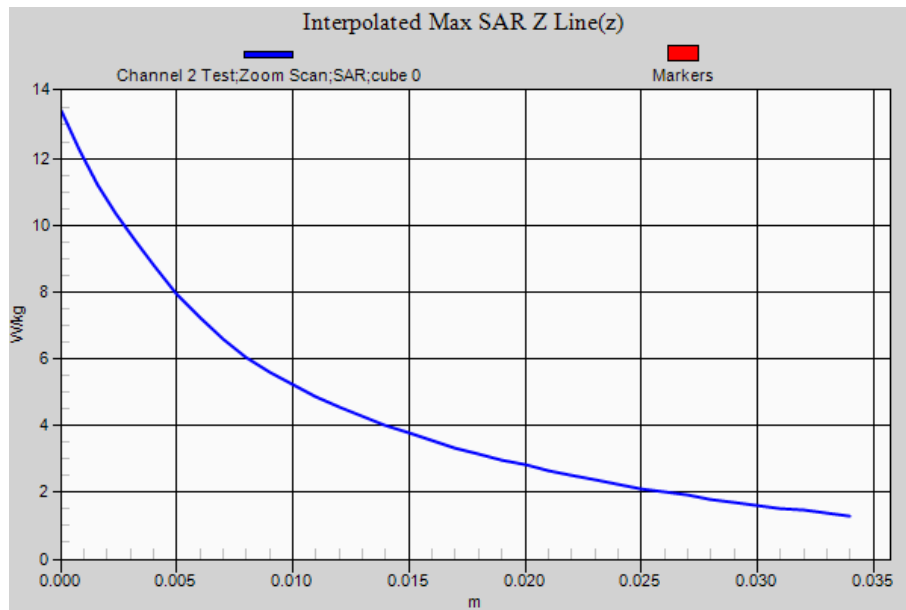
Body Leather Case Spring Clip 16 Key 26-03-14/Channel 2 Test/Zoom Scan (26x31x36)/Cube 0: Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 59.866 V/m; **Power Drift = -0.18 dB**

Averaged SAR: SAR(1g) = 8.600 W/kg; SAR(10g) = 5.670 W/kg

Maximum value of SAR (interpolated) = 13.400 W/kg



SAR Measurement Plot 26



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Whip FCC.da52:7

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Leather Case Spring Clip 16 Key 26-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 481.0 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=481$ MHz; $\sigma = 0.93$ S/m; $\epsilon_r = 55.2$; $\rho = 1000.0$ g/cm³
 Phantom section: Flat Section

DASY Configuration:

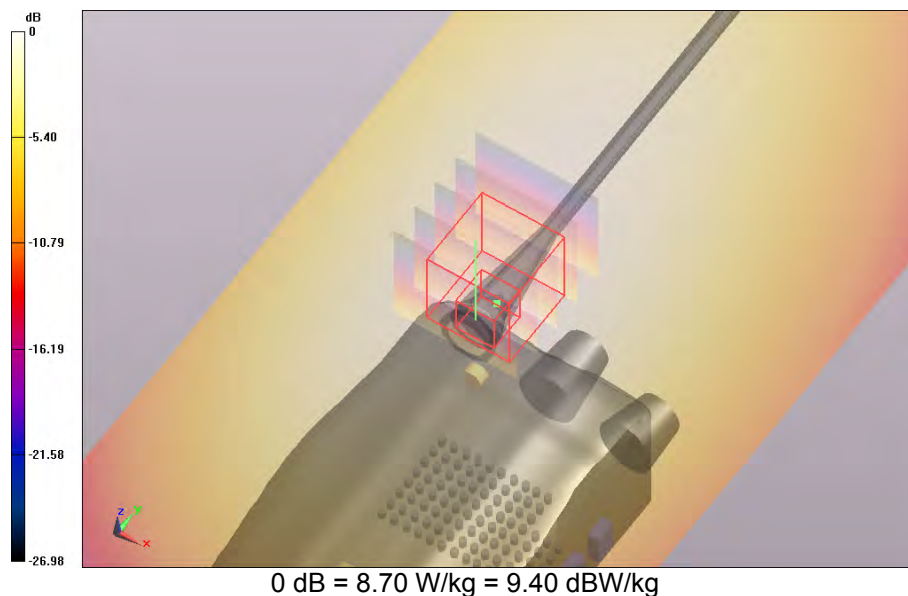
Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Leather Case Spring Clip 16 Key 26-03-14/Channel 3 Test/Area Scan (81x221x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 8.700 W/kg

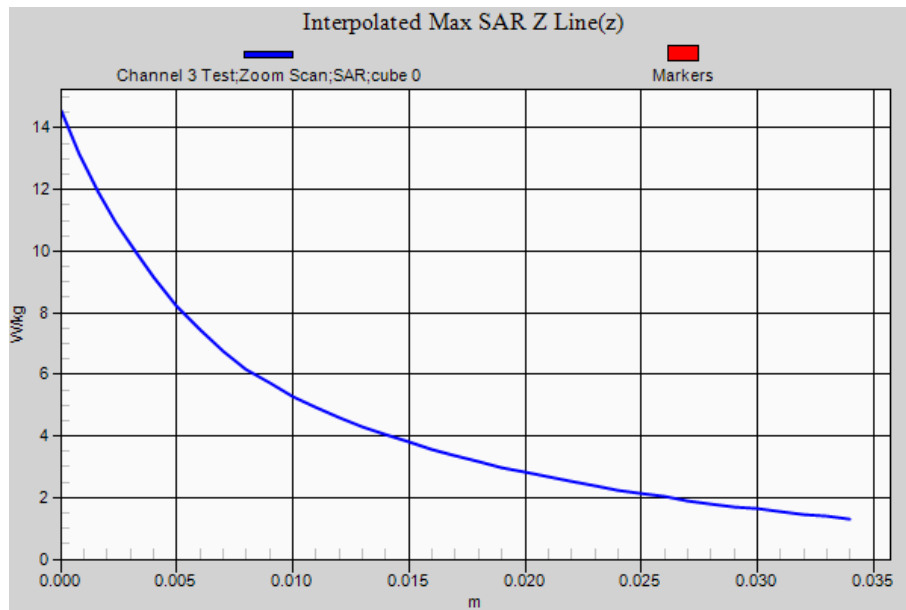
Body Leather Case Spring Clip 16 Key 26-03-14/Channel 3 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 62.672 V/m; **Power Drift = -0.15 dB**

Averaged SAR: SAR(1g) = 8.870 W/kg; SAR(10g) = 5.860 W/kg

Maximum value of SAR (interpolated) = 14.500 W/kg



SAR Measurement Plot 27



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This document shall not be reproduced except in full.

Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Whip FCC.da52:7

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Leather Case Spring Clip 16 Key 26-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 496.5 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=496.5$ MHz; $\sigma = 0.94$ S/m; $\epsilon_r = 54.9$; $\rho = 1000.0\text{g/cm}^3$
 Phantom section: Flat Section

DASY Configuration:

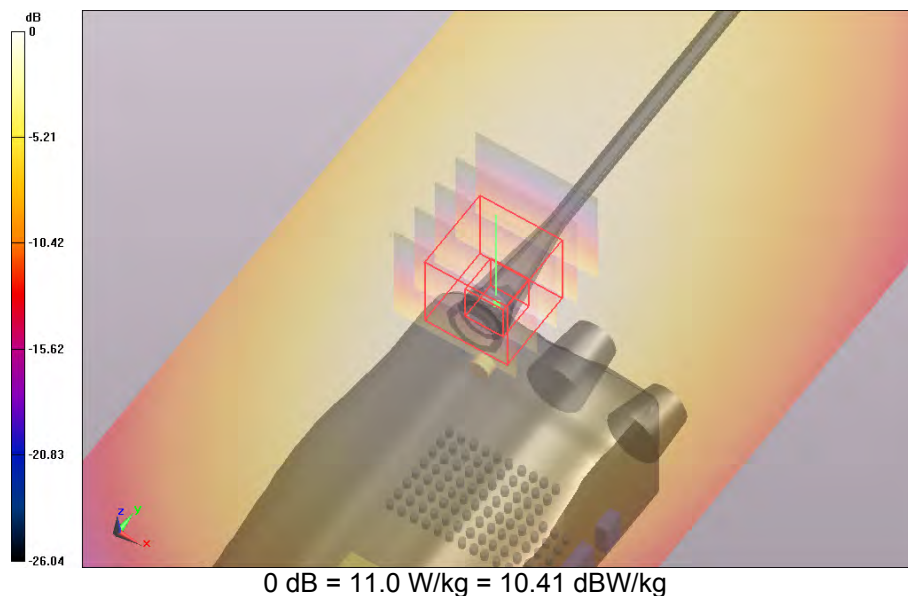
Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Leather Case Spring Clip 16 Key 26-03-14/Channel 4 Test/Area Scan (81x221x1): Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 11.000 W/kg

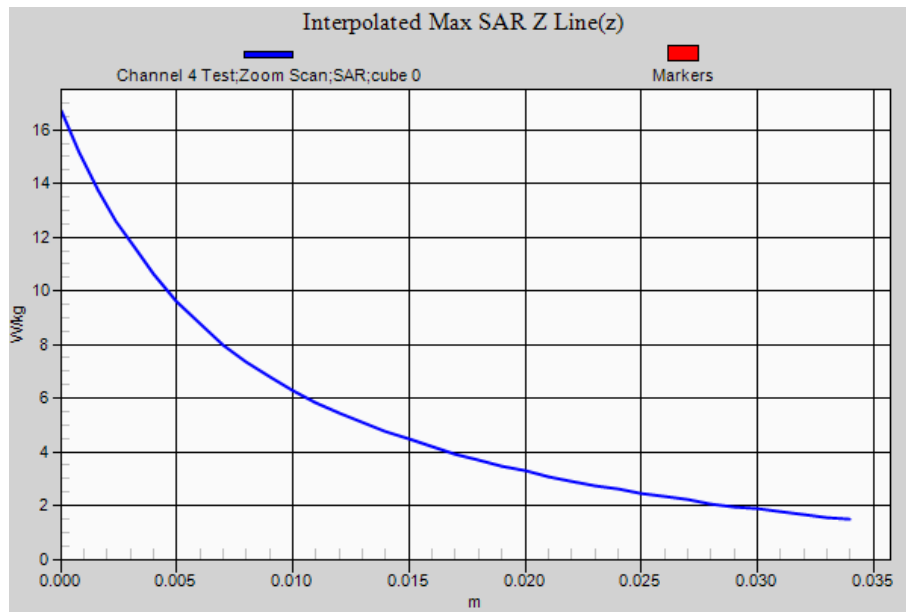
Body Leather Case Spring Clip 16 Key 26-03-14/Channel 4 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 64.172 V/m; **Power Drift = -0.21 dB**

Averaged SAR: SAR(1g) = 10.300 W/kg; SAR(10g) = 6.660 W/kg

Maximum value of SAR (interpolated) = 16.700 W/kg



SAR Measurement Plot 28



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This document shall not be reproduced except in full.

Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Whip FCC.da52:7

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Leather Case Spring Clip 16 Key 26-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 511.9 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=512$ MHz; $\sigma = 0.95$ S/m; $\epsilon_r = 54.6$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

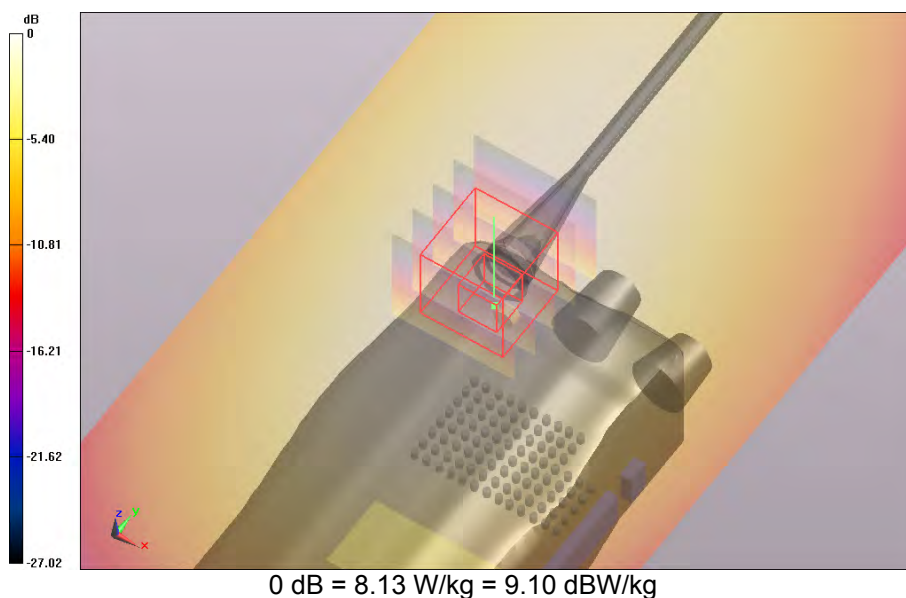
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

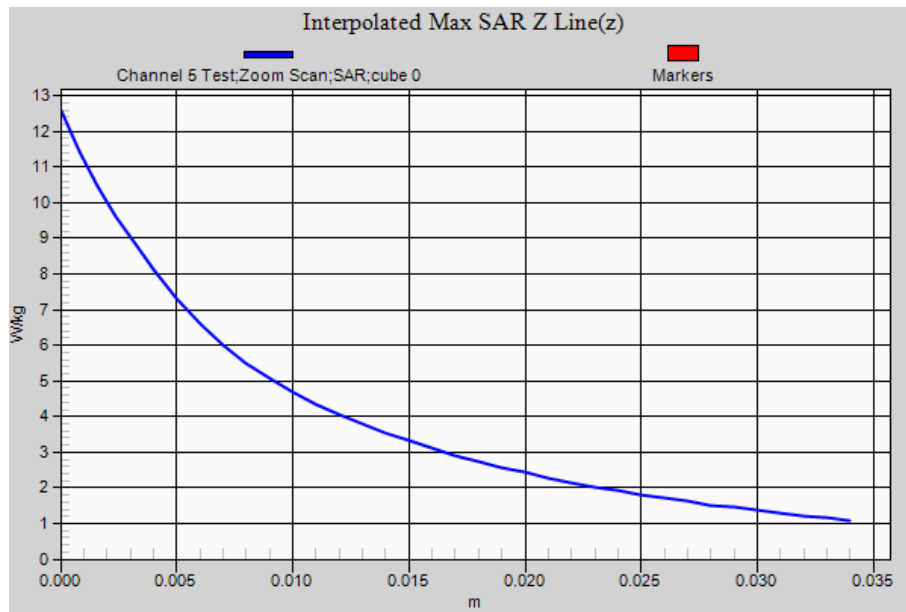
DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Leather Case Spring Clip 16 Key 26-03-14/Channel 5 Test/Area Scan (81x221x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 8.130 W/kg**Body Leather Case Spring Clip 16 Key 26-03-14/Channel 5 Test/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 48.750 V/m; **Power Drift = - 0.10 dB****Averaged SAR: SAR(1g) = 7.630 W/kg; SAR(10g) = 4.910 W/kg**

Maximum value of SAR (interpolated) = 12.600 W/kg



SAR Measurement Plot 29



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Whip FCC.da52:8

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Leather Case D-Stud Spring Clip 16 Key 26-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 481.0 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=481$ MHz; $\sigma = 0.93$ S/m; $\epsilon_r = 55.2$; $\rho = 1000.0\text{g/cm}^3$

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

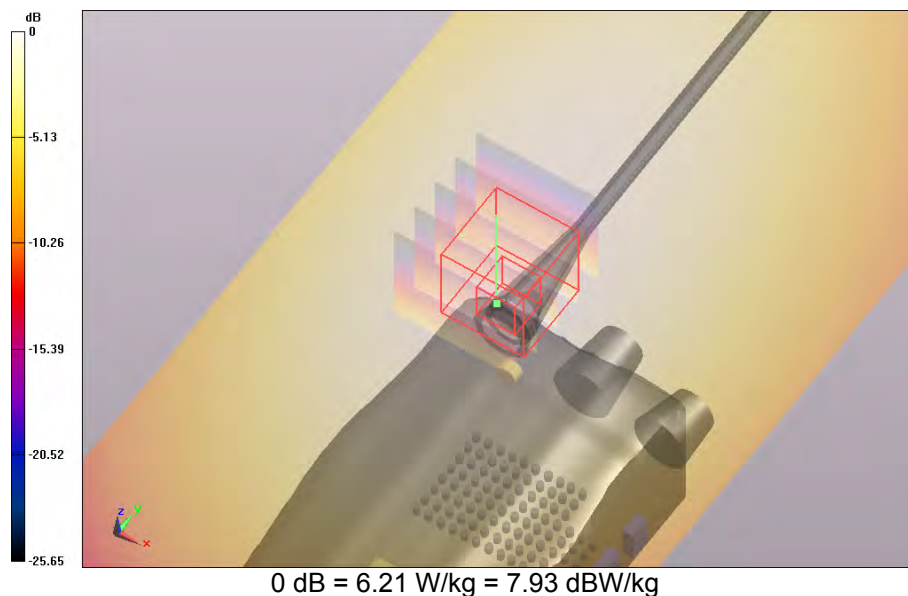
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Leather Case D-Stud Spring Clip 16 Key 26-03-14/Channel 3 Test/Area Scan (81x221x1):Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 6.210 W/kg**Body Leather Case D-Stud Spring Clip 16 Key 26-03-14/Channel 3 Test/Zoom Scan****(21x21x36)/Cube 0:** Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 48.131 V/m; **Power Drift = -0.15 dB****Averaged SAR: SAR(1g) = 6.390 W/kg; SAR(10g) = 4.290 W/kg**

Maximum value of SAR (interpolated) = 9.810 W/kg

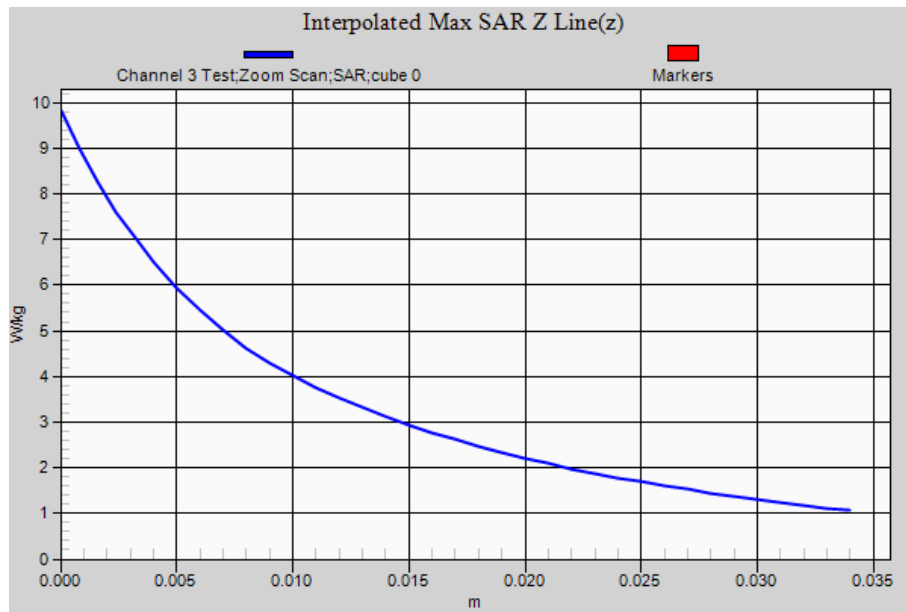


SAR Measurement Plot 30



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This document shall not be reproduced except in full.

Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Whip FCC.da52:9

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Leather Case D-Stud Belt Loop 16 Key 26-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 481.0 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=481$ MHz; $\sigma = 0.93$ S/m; $\epsilon_r = 55.2$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

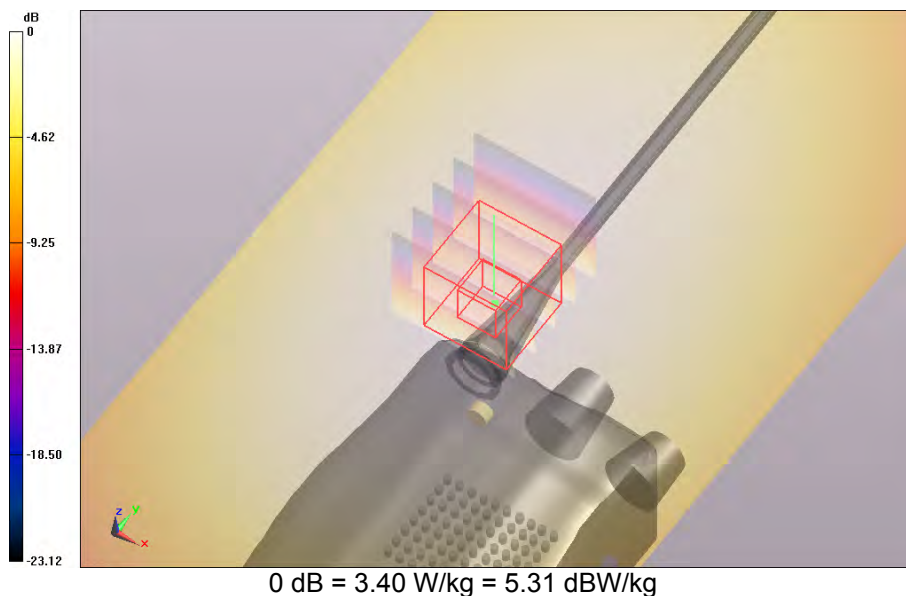
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Leather Case D-Stud Belt Loop 16 Key 26-03-14/Channel 3 Test/Area Scan (81x221x1):Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 3.400 W/kg**Body Leather Case D-Stud Belt Loop 16 Key 26-03-14/Channel 3 Test/Zoom Scan (21x21x36)/Cube****0:** Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 36.479 V/m; **Power Drift = -0.07 dB****Averaged SAR: SAR(1g) = 3.360 W/kg; SAR(10g) = 2.490 W/kg**

Maximum value of SAR (interpolated) = 4.390 W/kg

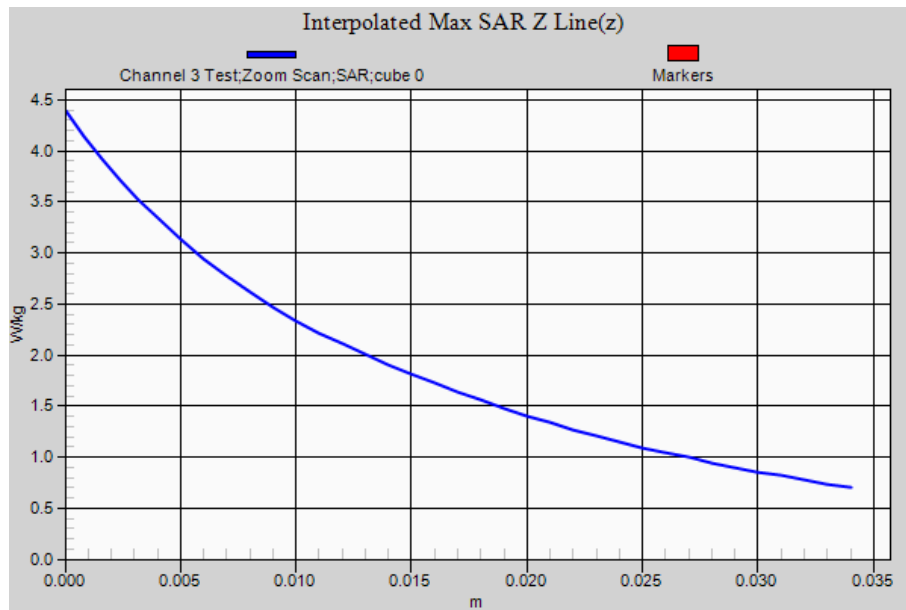


SAR Measurement Plot 31



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Whip FCC.da52:10

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Leather Case Belt Loop 16 Key 26-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 465.5 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=465.5$ MHz; $\sigma = 0.92$ S/m; $\epsilon_r = 55.5$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

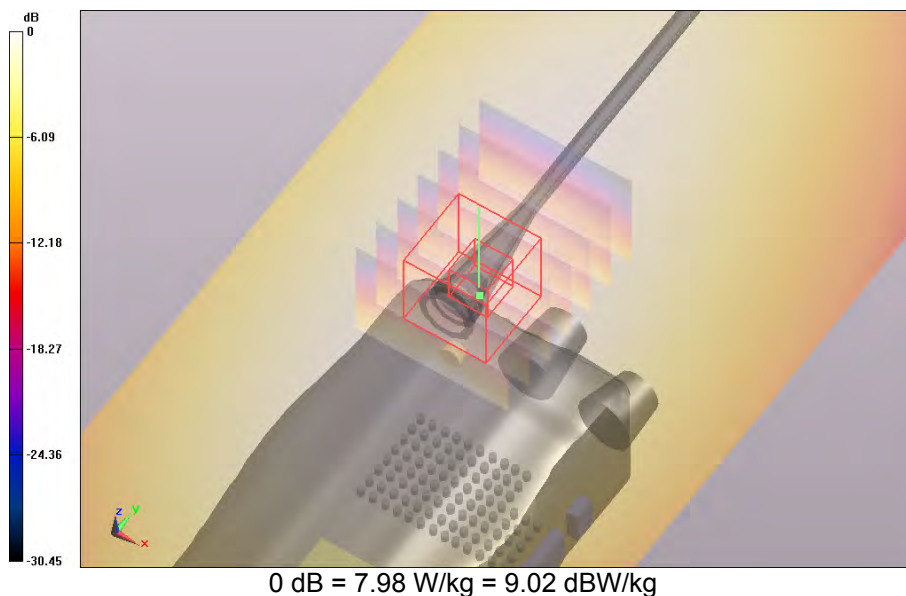
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

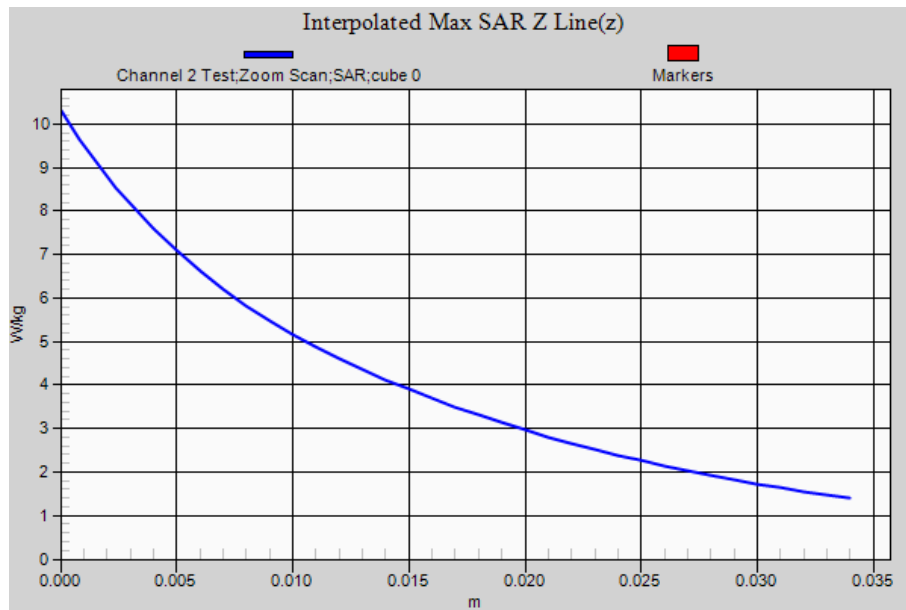
DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Leather Case Belt Loop 16 Key 26-03-14/Channel 2 Test/Area Scan (81x221x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 7.980 W/kg**Body Leather Case Belt Loop 16 Key 26-03-14/Channel 2 Test/Zoom Scan (26x31x36)/Cube 0:**Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 58.790 V/m; **Power Drift = - 0.13 dB****Averaged SAR: SAR(1g) = 7.720 W/kg; SAR(10g) = 5.590 W/kg**

Maximum value of SAR (interpolated) = 10.300 W/kg



SAR Measurement Plot 32



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Whip FCC.da52:10

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Leather Case Belt Loop 16 Key 26-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 481.0 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=481$ MHz; $\sigma = 0.93$ S/m; $\epsilon_r = 55.2$; $\rho = 1000.0\text{g/cm}^3$
 Phantom section: Flat Section

DASY Configuration:

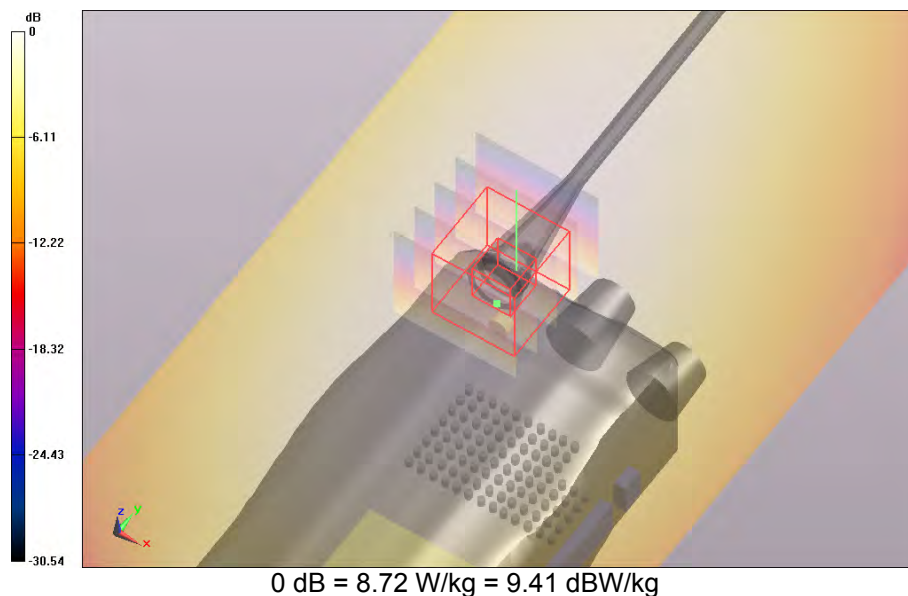
Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Leather Case Belt Loop 16 Key 26-03-14/Channel 3 Test/Area Scan (81x221x1): Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 8.720 W/kg

Body Leather Case Belt Loop 16 Key 26-03-14/Channel 3 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 62.317 V/m; **Power Drift = - 0.21 dB**

Averaged SAR: SAR(1g) = 8.590 W/kg; SAR(10g) = 6.230 W/kg

Maximum value of SAR (interpolated) = 11.500 W/kg

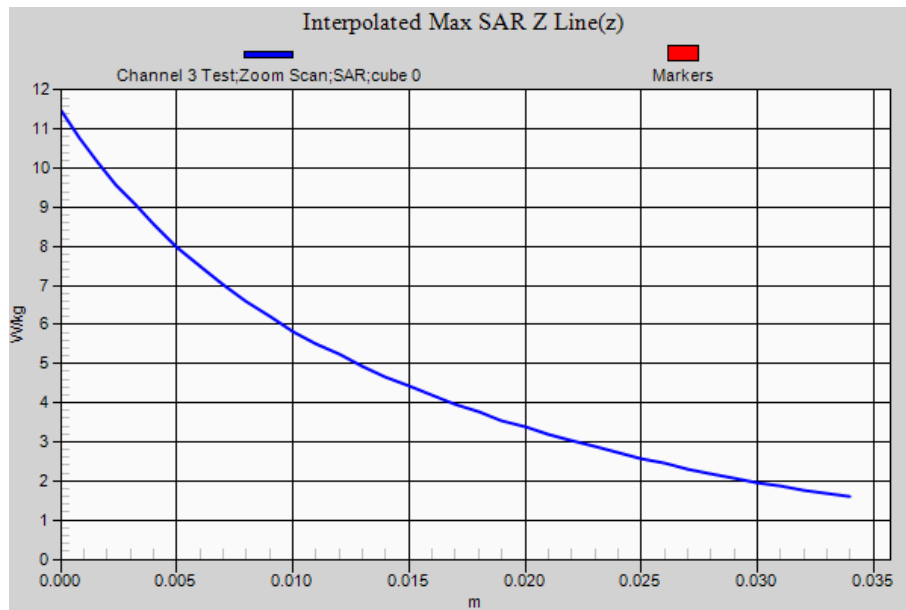


SAR Measurement Plot 33



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Whip FCC.da52:10

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Leather Case Belt Loop 16 Key 26-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 496.5 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=496.5$ MHz; $\sigma = 0.94$ S/m; $\epsilon_r = 54.9$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

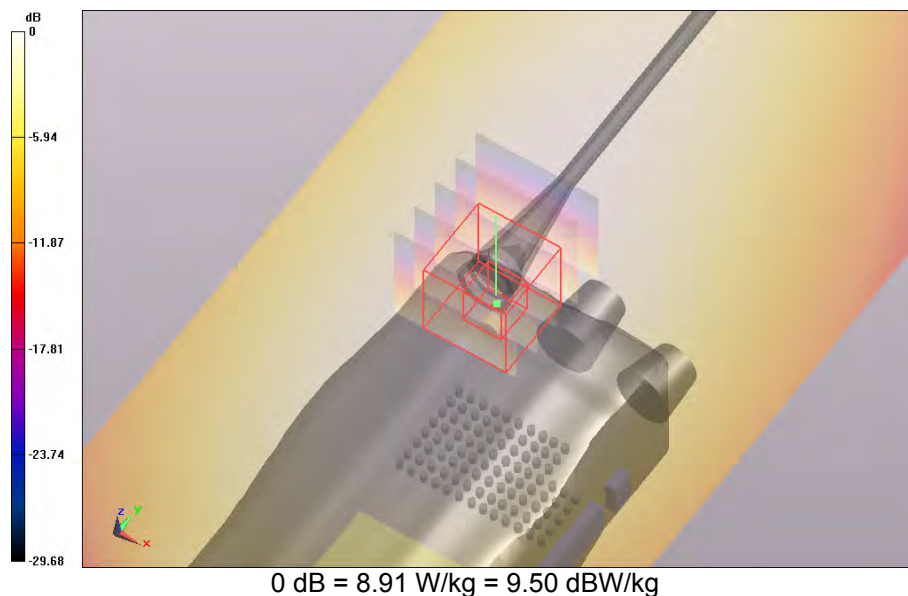
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

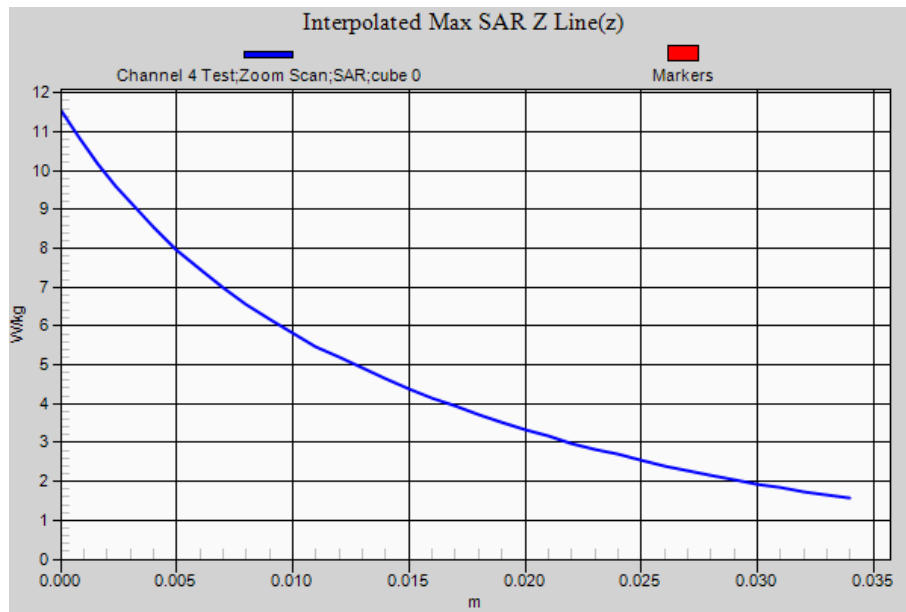
DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Leather Case Belt Loop 16 Key 26-03-14/Channel 4 Test/Area Scan (81x221x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 8.910 W/kg**Body Leather Case Belt Loop 16 Key 26-03-14/Channel 4 Test/Zoom Scan (21x21x36)/Cube 0:**Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 61.937 V/m; **Power Drift = - 0.17 dB****Averaged SAR: SAR(1g) = 8.470 W/kg; SAR(10g) = 6.100 W/kg**

Maximum value of SAR (interpolated) = 11.500 W/kg



SAR Measurement Plot 34



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Whip FCC.da52:10

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Leather Case Belt Loop 16 Key 26-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 511.9 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=512$ MHz; $\sigma = 0.95$ S/m; $\epsilon_r = 54.6$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

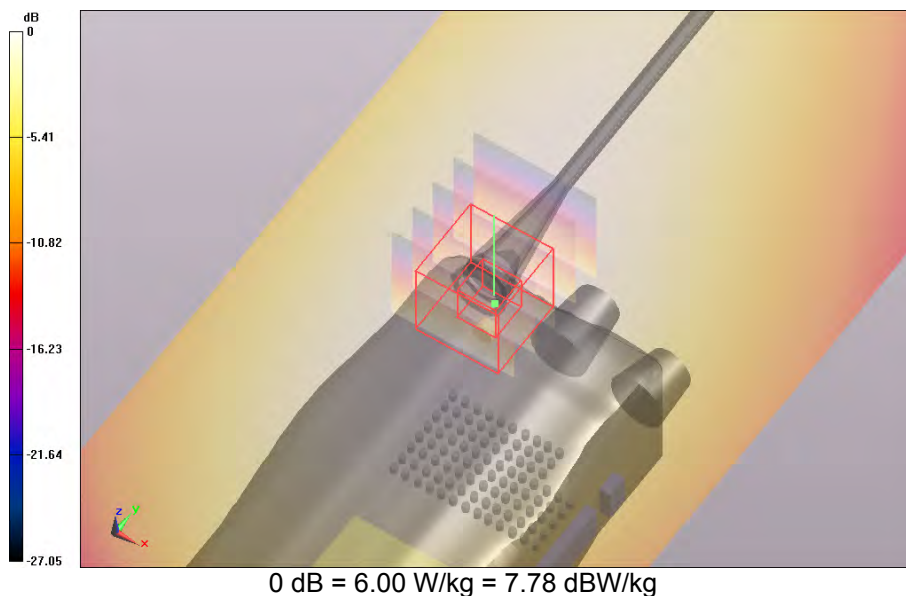
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Leather Case Belt Loop 16 Key 26-03-14/Channel 5 Test/Area Scan (81x221x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 6.000 W/kg**Body Leather Case Belt Loop 16 Key 26-03-14/Channel 5 Test/Zoom Scan (21x21x36)/Cube 0:**Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 52.814 V/m; **Power Drift = - 0.18 dB****Averaged SAR: SAR(1g) = 5.720 W/kg; SAR(10g) = 4.120 W/kg**

Maximum value of SAR (interpolated) = 7.850 W/kg

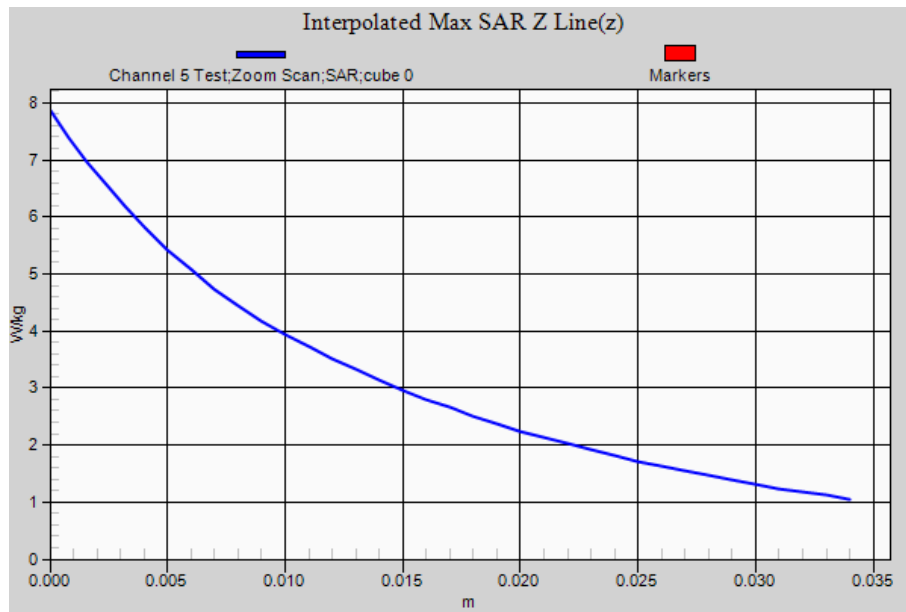


SAR Measurement Plot 35



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Whip FCC.da52:11

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Nylon Case Belt Loop Extended Battery 16 Key 25-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 481.0 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=481$ MHz; $\sigma = 0.93$ S/m; $\epsilon_r = 55.2$; $\rho = 1000.0\text{g/cm}^3$

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

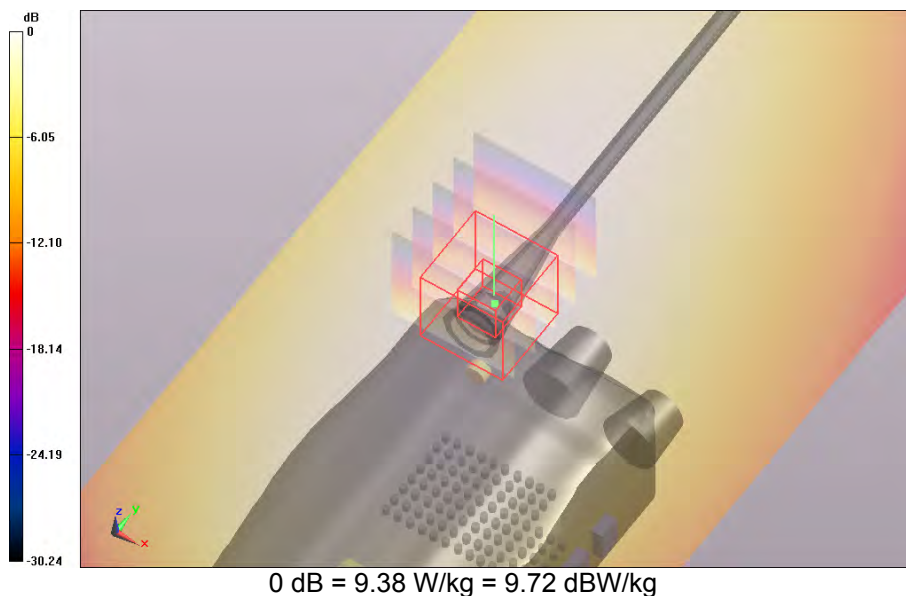
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

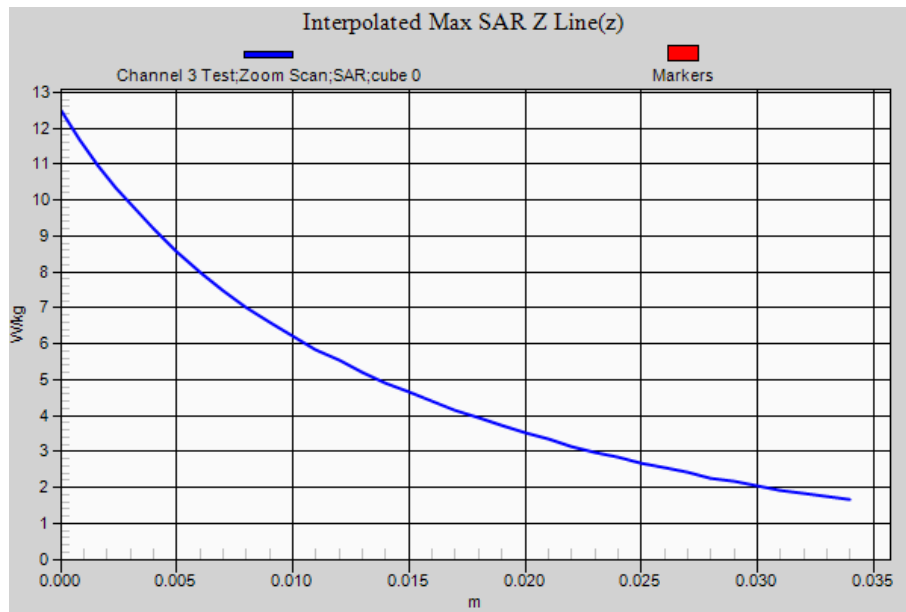
DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Nylon Case Belt Loop Extended Battery 16 Key 25-03-14/Channel 3 Test/Area Scan (81x221x1):Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 9.380 W/kg**Body Nylon Case Belt Loop Extended Battery 16 Key 25-03-14/Channel 3 Test/Zoom Scan****(21x21x36)/Cube 0:** Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 71.721V/m; **Power Drift = -0.19 dB****Averaged SAR: SAR(1g) = 9.260 W/kg; SAR(10g) = 6.680 W/kg**

Maximum value of SAR (interpolated) = 12.500 W/kg



SAR Measurement Plot 36



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Whip FCC.da52:12

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Nylon Case Belt Loop Audio Accessory FAAA 16 Key 26-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 481.0 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=481$ MHz; $\sigma = 0.93$ S/m; $\epsilon_r = 55.2$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

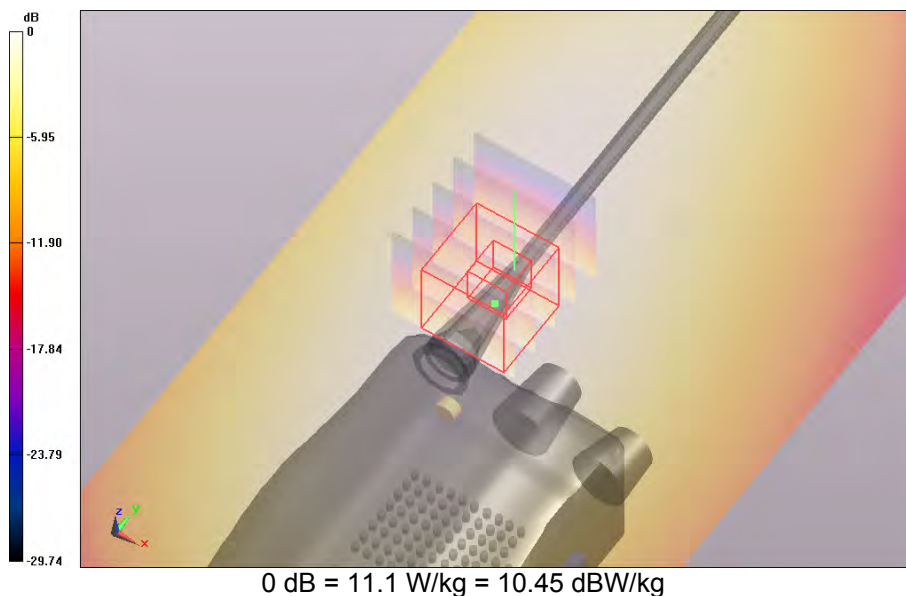
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

DASY52 52.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Nylon Case Belt Loop Audio Accessory FAAA 16 Key 26-03-14/Channel 3 Test/Area Scan**(81x221x1):** Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 11.100 W/kg**Body Nylon Case Belt Loop Audio Accessory FAAA 16 Key 26-03-14/Channel 3 Test/Zoom Scan****(21x21x36)/Cube 0:** Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 84.404V/m; **Power Drift = -0.14 dB****Averaged SAR: SAR(1g) = 10.900 W/kg; SAR(10g) = 7.840 W/kg**

Maximum value of SAR (interpolated) = 15.000 W/kg

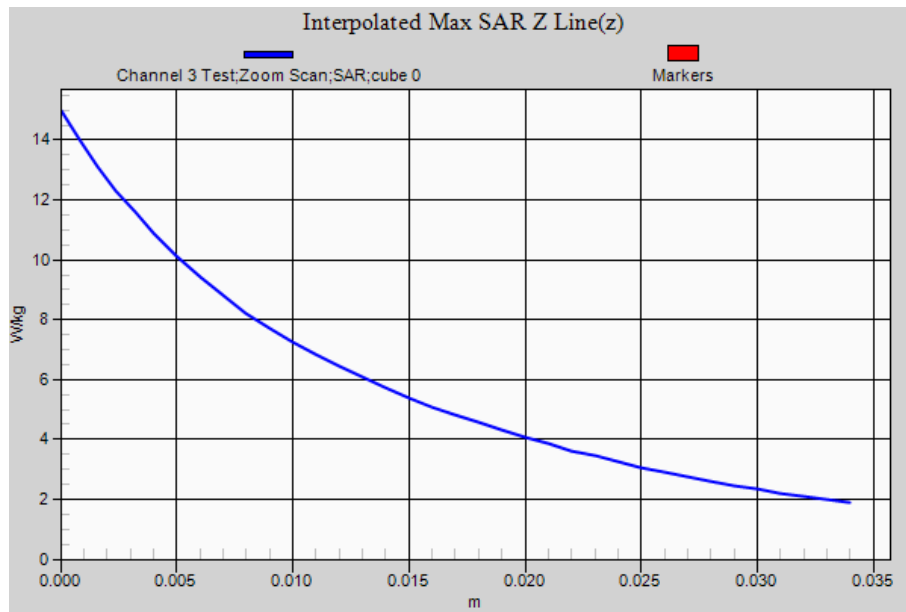


SAR Measurement Plot 37



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Whip FCC.da52:13

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Nylon Case Belt Loop Audio Accessory FEAA 16 Key 26-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 481.0 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=481$ MHz; $\sigma = 0.93$ S/m; $\epsilon_r = 55.2$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

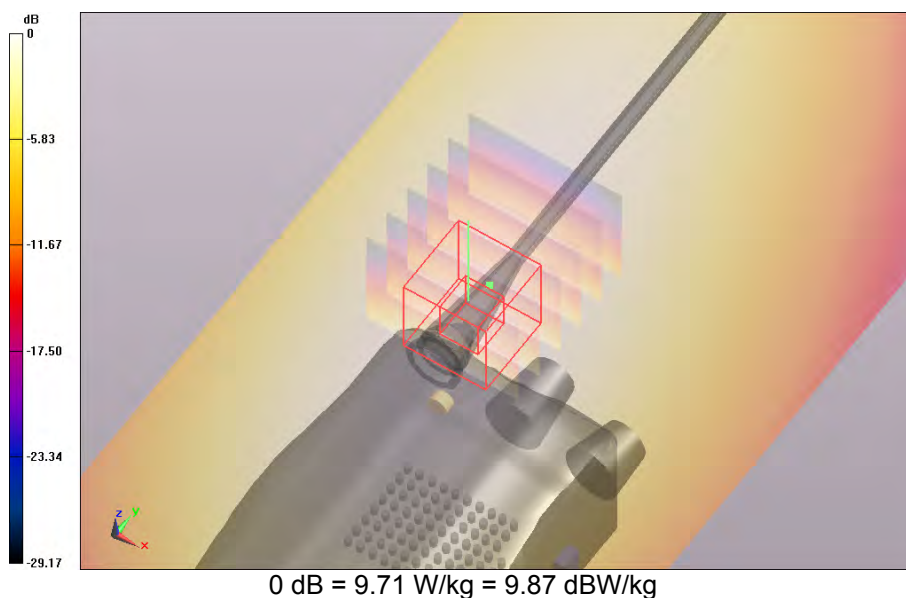
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Nylon Case Belt Loop Audio Accessory FEAA 16 Key 26-03-14/Channel 3 Test/Area Scan**(81x221x1):** Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 9.710 W/kg**Body Nylon Case Belt Loop Audio Accessory FEAA 16 Key 26-03-14/Channel 3 Test/Zoom Scan****(26x26x36)/Cube 0:** Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 74.264V/m; **Power Drift = -0.07 dB****Averaged SAR: SAR(1g) = 9.610 W/kg; SAR(10g) = 6.930 W/kg**

Maximum value of SAR (interpolated) = 13.100 W/kg

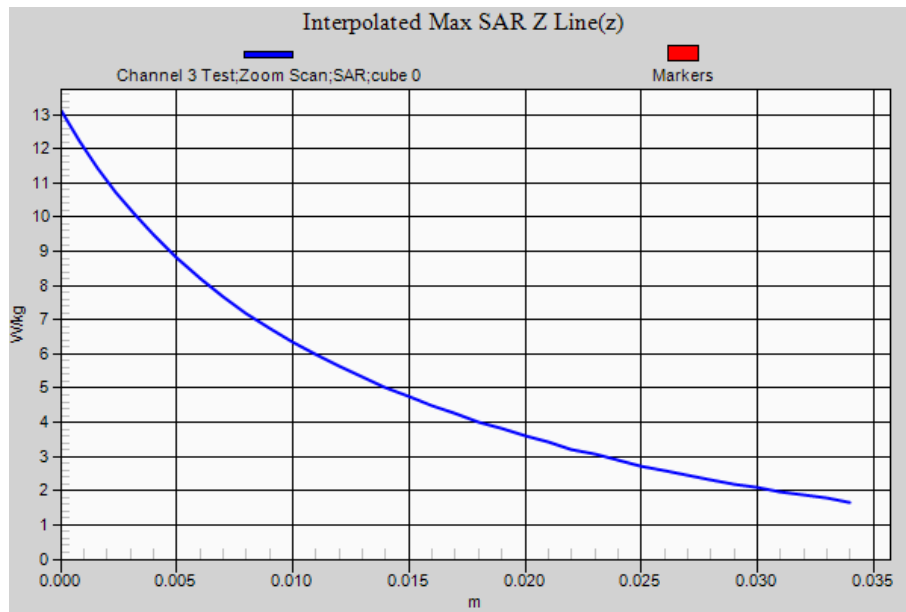


SAR Measurement Plot 38



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Whip FCC.da52:14

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543020**Configuration: Body Nylon Case Belt Loop 4-key Variant 31-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 450.1 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=450$ MHz; $\sigma = 0.93$ S/m; $\epsilon_r = 55.9$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

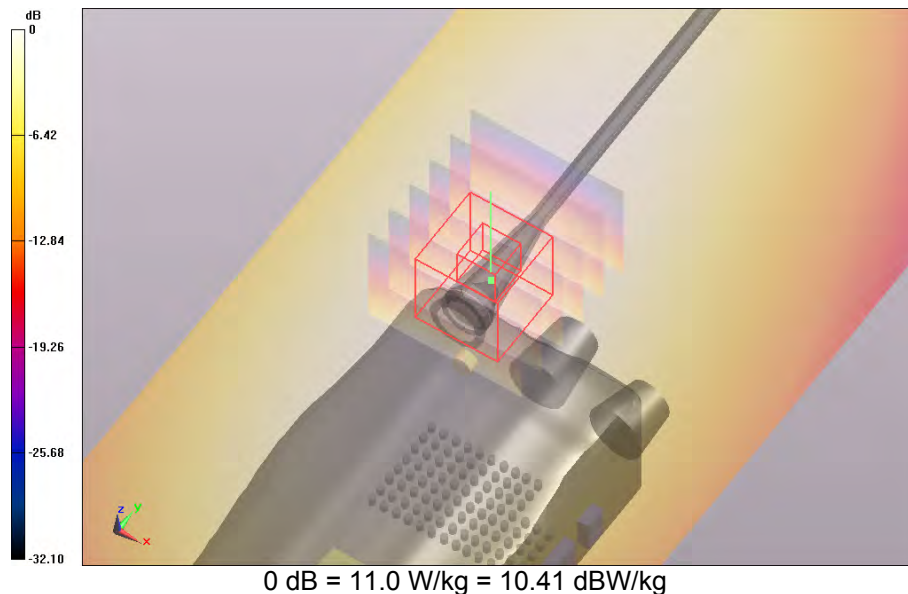
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

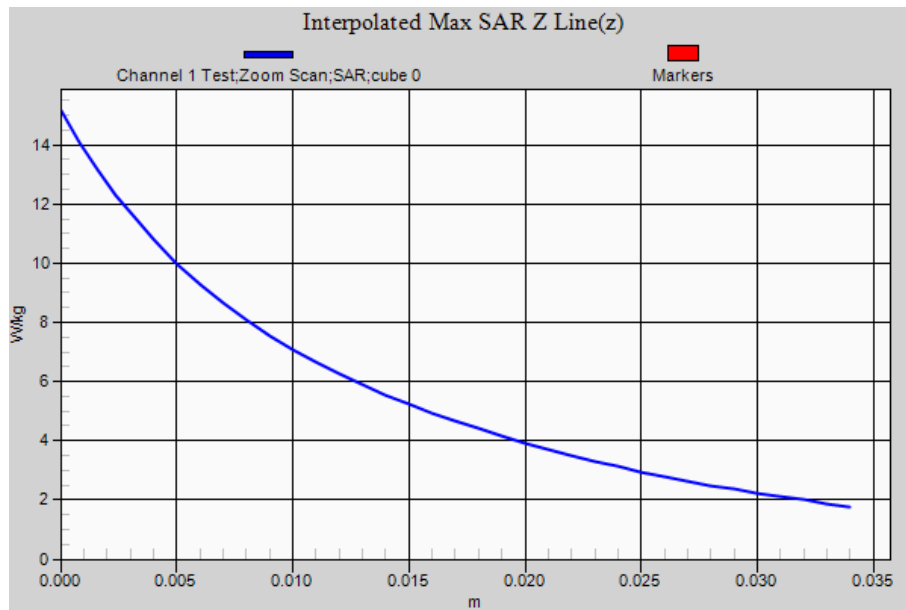
DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Nylon Case Belt Loop 4-key Variant 31-03-14/Channel 1 Test/Area Scan (81x221x1): Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 11.000 W/kg**Body Nylon Case Belt Loop 4-key Variant 31-03-14/Channel 1 Test/Zoom Scan (26x26x36)/Cube 0:**Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 72.788 V/m; **Power Drift = - 0.21 dB****Averaged SAR: SAR(1g) = 10.900 W/kg; SAR(10g) = 7.750 W/kg**

Maximum value of SAR (interpolated) = 15.100 W/kg



SAR Measurement Plot 39



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Whip FCC.da52:15

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Nylon Case Belt Loop 16-key Variability 31-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 481.0 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=481$ MHz; $\sigma = 0.95$ S/m; $\epsilon_r = 55.5$; $\rho = 1000.0\text{g/cm}^3$

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

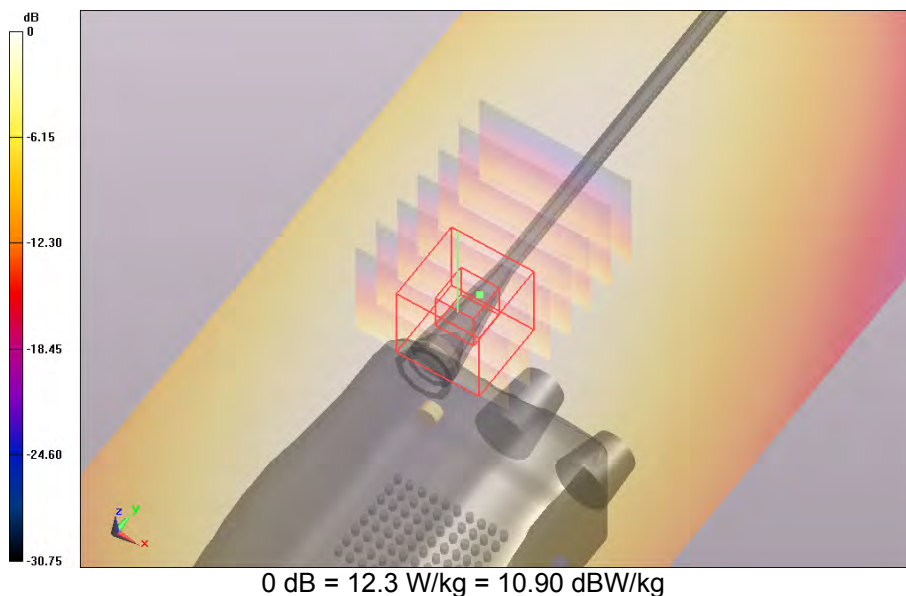
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

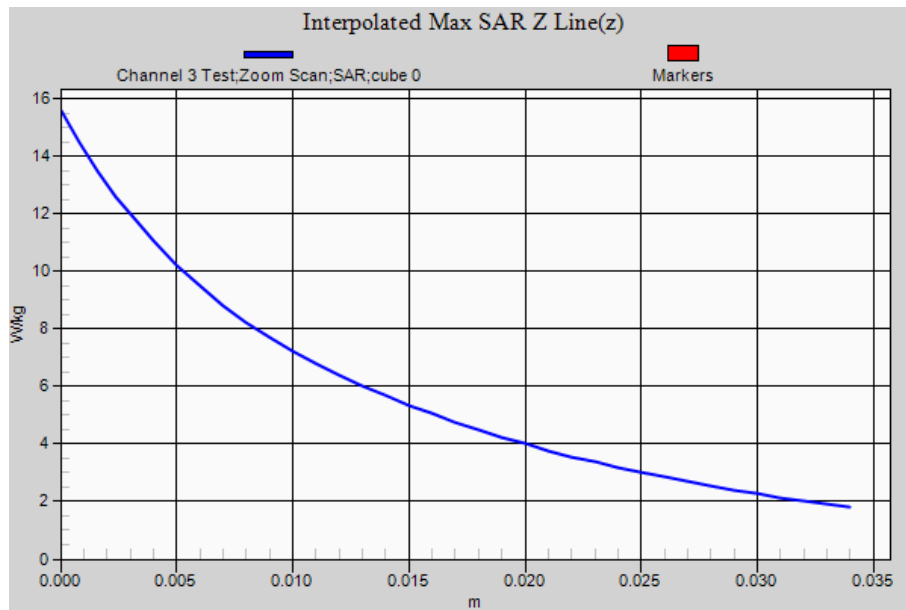
DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Nylon Case Belt Loop 16-key Variability 31-03-14/Channel 3 Test/Area Scan (81x221x1):Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 12.300 W/kg**Body Nylon Case Belt Loop 16-key Variability 31-03-14/Channel 3 Test/Zoom Scan****(26x31x36)/Cube 0:** Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 76.142 V/m; **Power Drift = -0.08 dB****Averaged SAR: SAR(1g) = 10.900 W/kg; SAR(10g) = 7.720 W/kg**

Maximum value of SAR (interpolated) = 15.600 W/kg



SAR Measurement Plot 40



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Whip FCC.da52:16

DUT Name: Dipole 450 MHz, Type: D450V3, Serial: 1074**Configuration: System Check 24-03-14**

Communication System: 0 - CW 450 MHz; Communication System Band: 450 MHz; Frequency: 450.0 MHz; Communication System PAR: 0.00 dB; PMF: 1.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=450$ MHz; $\sigma = 0.94$ S/m; $\epsilon_r = 56.4$; $\rho = 1000.0$ g/cm³
 Phantom section: Flat Section

DASY Configuration:

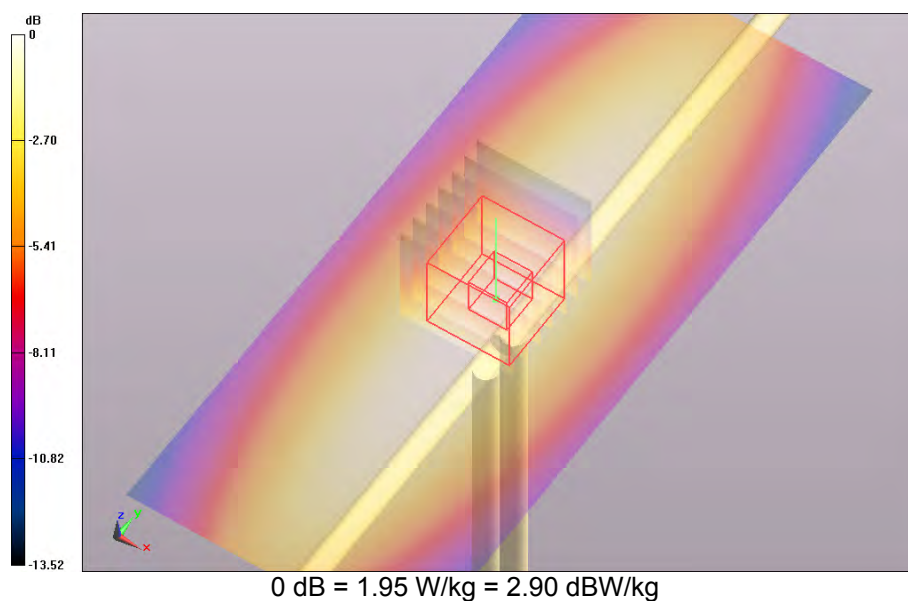
Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection)
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

System Check 24-03-14/Channel 1Test/Area Scan (51x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm;
 Maximum value of SAR (interpolated) = 1.950 W/kg

System Check 24-03-14/Channel 1Test/Zoom Scan (31x31x36)/Cube 0: Interpolated grid: dx=1.0 mm, dy=1.0 mm, dz=1.0 mm; Reference Value = 47.657 V/m; **Power Drift = -0.02 dB**

Averaged SAR: SAR(1g) = 1.890 W/kg; SAR(10g) = 1.190 W/kg

Maximum value of SAR (interpolated) = 3.250 W/kg

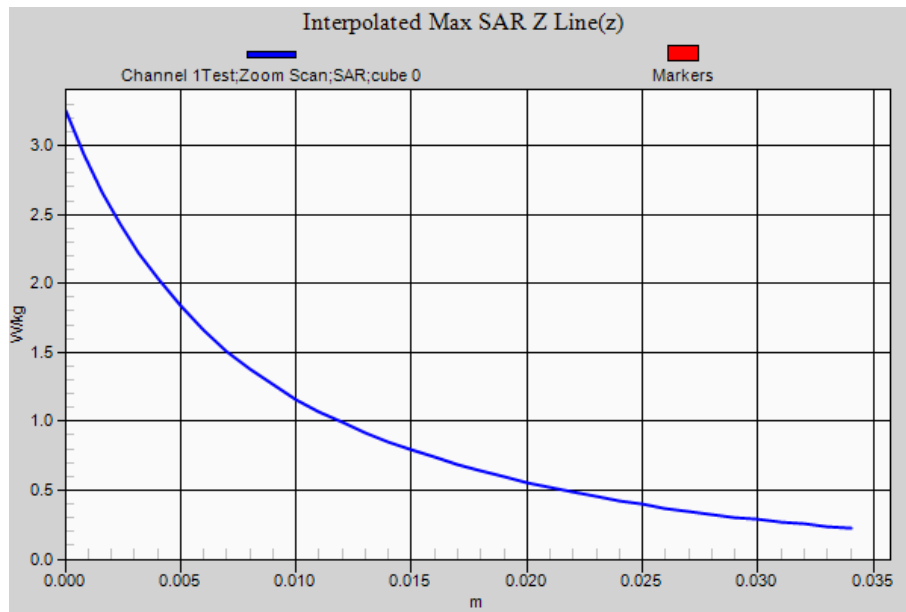


SAR Measurement Plot 41



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Whip FCC.da52:17

DUT Name: Dipole 450 MHz, Type: D450V3, Serial: 1074**Configuration: System Check 25-03-14**

Communication System: 0 - CW 450 MHz; Communication System Band: 450 MHz; Frequency: 450.0 MHz; Communication System PAR: 0.00 dB; PMF: 1.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=450$ MHz; $\sigma = 0.91$ S/m; $\epsilon_r = 55.7$; $\rho = 1000.0$ g/cm³
 Phantom section: Flat Section

DASY Configuration:

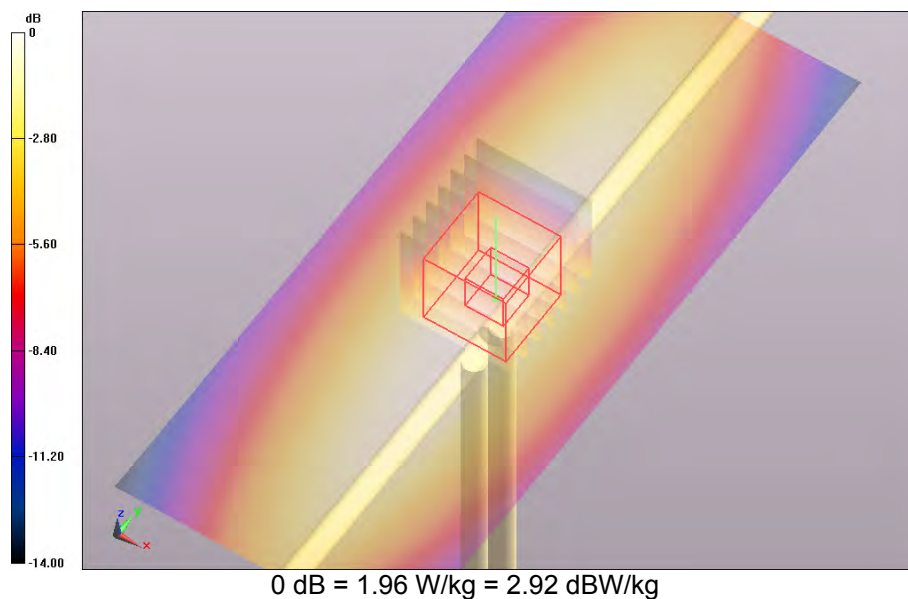
Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection)
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

System Check 25-03-14/Channel 1Test/Area Scan (51x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm;
 Maximum value of SAR (interpolated) = 1.960 W/kg

System Check 25-03-14/Channel 1Test/Zoom Scan (31x31x36)/Cube 0: Interpolated grid: dx=1.0 mm, dy=1.0 mm, dz=1.0 mm; Reference Value = 47.585 V/m; **Power Drift = -0.02 dB**

Averaged SAR: SAR(1g) = 1.860 W/kg; SAR(10g) = 1.180 W/kg

Maximum value of SAR (interpolated) = 3.200 W/kg

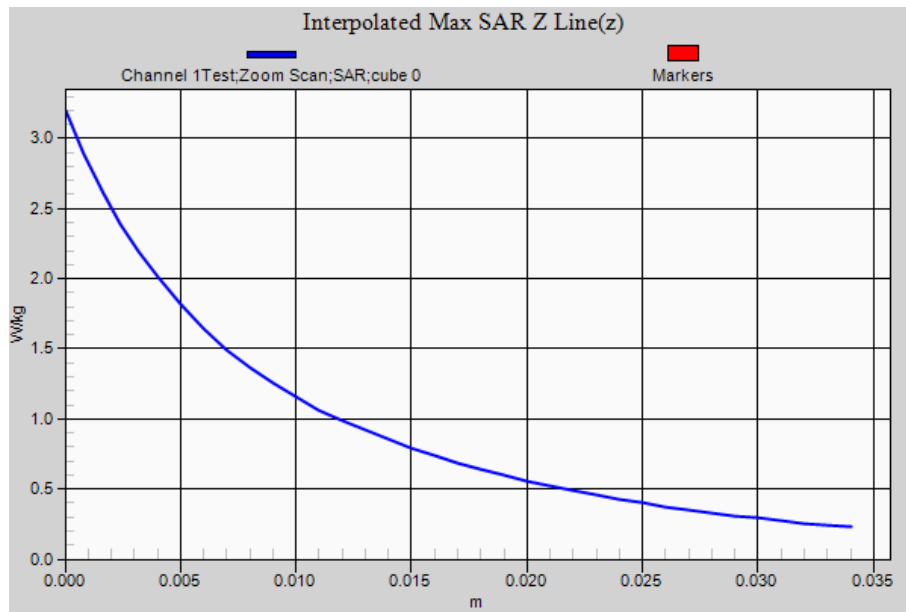


SAR Measurement Plot 42



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Whip FCC.da52:18

DUT Name: Dipole 450 MHz, Type: D450V3, Serial: 1074**Configuration: System Check 26-03-14**

Communication System: 0 - CW 450 MHz; Communication System Band: 450 MHz; Frequency: 450.0 MHz; Communication System PAR: 0.00 dB; PMF: 1.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=450$ MHz; $\sigma = 0.92$ S/m; $\epsilon_r = 55.5$; $\rho = 1000.0$ g/cm³
 Phantom section: Flat Section

DASY Configuration:

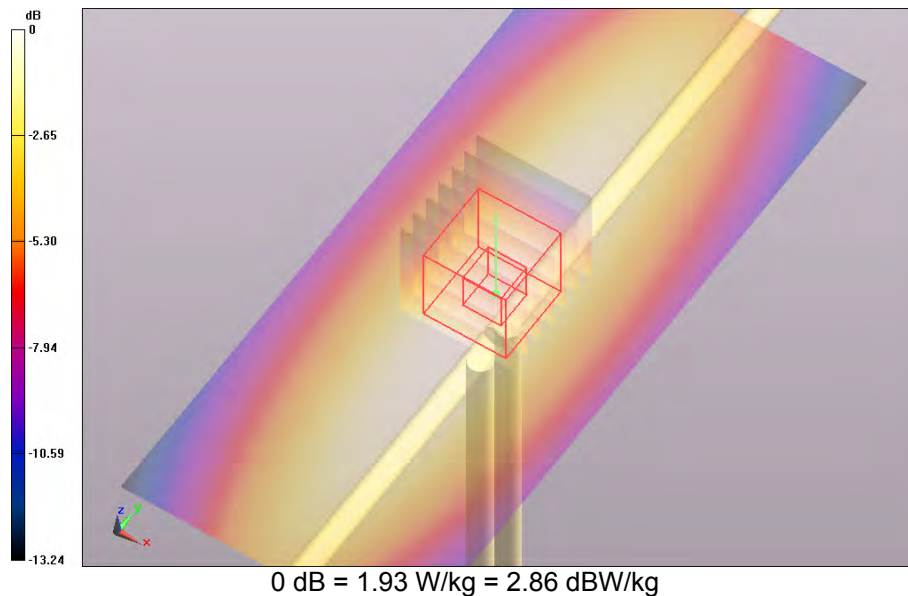
Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection)
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

System Check 26-03-14/Channel 1Test/Area Scan (51x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm;
 Maximum value of SAR (interpolated) = 1.930 W/kg

System Check 26-03-14/Channel 1Test/Zoom Scan (31x31x36)/Cube 0: Interpolated grid: dx=1.0 mm, dy=1.0 mm, dz=1.0 mm; Reference Value = 47.514 V/m; **Power Drift = -0.03 dB**

Averaged SAR: SAR(1g) = 1.850 W/kg; SAR(10g) = 1.170 W/kg

Maximum value of SAR (interpolated) = 3.130 W/kg

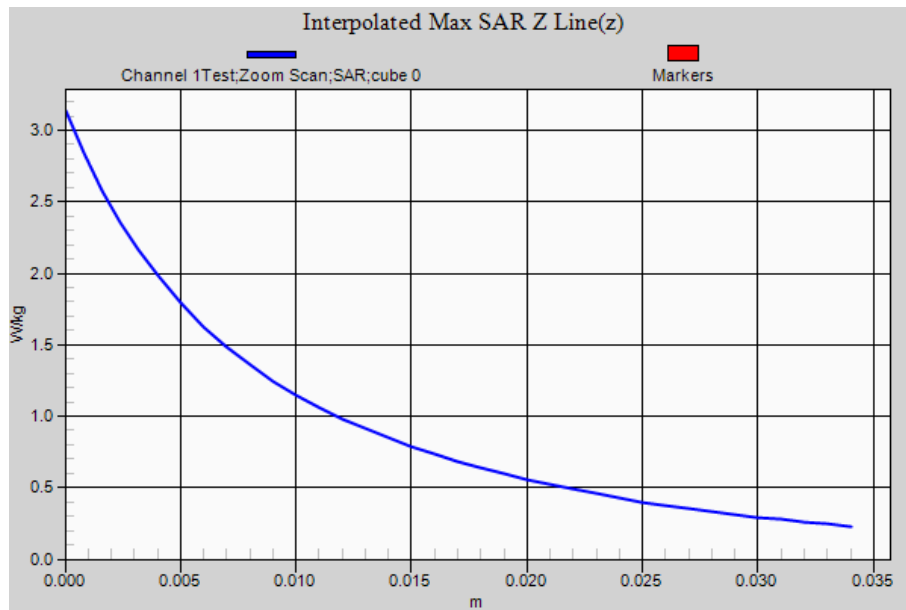


SAR Measurement Plot 43



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Whip FCC.da52:19

DUT Name: Dipole 450 MHz, Type: D450V3, Serial: 1074**Configuration: System Check 03-06-14**

Communication System: 0 - CW 450 MHz; Communication System Band: 450 MHz; Frequency: 450.0 MHz; Communication System PAR: 0.00 dB; PMF: 1.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=450$ MHz; $\sigma = 0.96$ S/m; $\epsilon_r = 57.7$; $\rho = 1000.0$ g/cm³
 Phantom section: Flat Section

DASY Configuration:

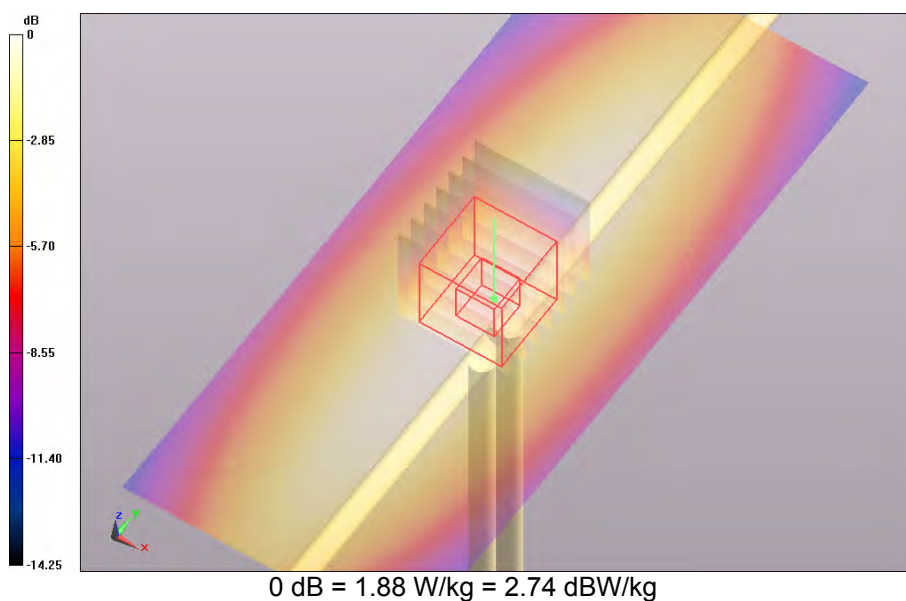
Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection)
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

System Check 03-06-14/Channel 1Test/Area Scan (51x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm;
 Maximum value of SAR (interpolated) = 1.880 W/kg

System Check 03-06-14/Channel 1Test/Zoom Scan (31x31x36)/Cube 0: Interpolated grid: dx=1.0 mm, dy=1.0 mm, dz=1.0 mm; Reference Value = 45.759 V/m; **Power Drift = -0.01 dB**

Averaged SAR: SAR(1g) = 1.830 W/kg; SAR(10g) = 1.150 W/kg

Maximum value of SAR (interpolated) = 3.130 W/kg

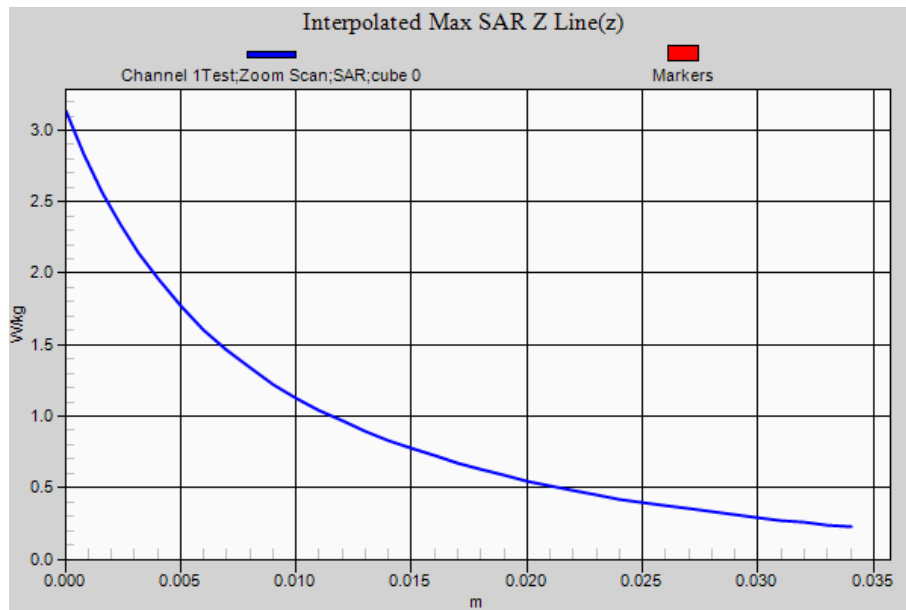


SAR Measurement Plot 44



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Helical FCC.da52:0

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Battery Clip 16 Key 27-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 450.1 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=450$ MHz; $\sigma = 0.90$ S/m; $\epsilon_r = 55.6$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

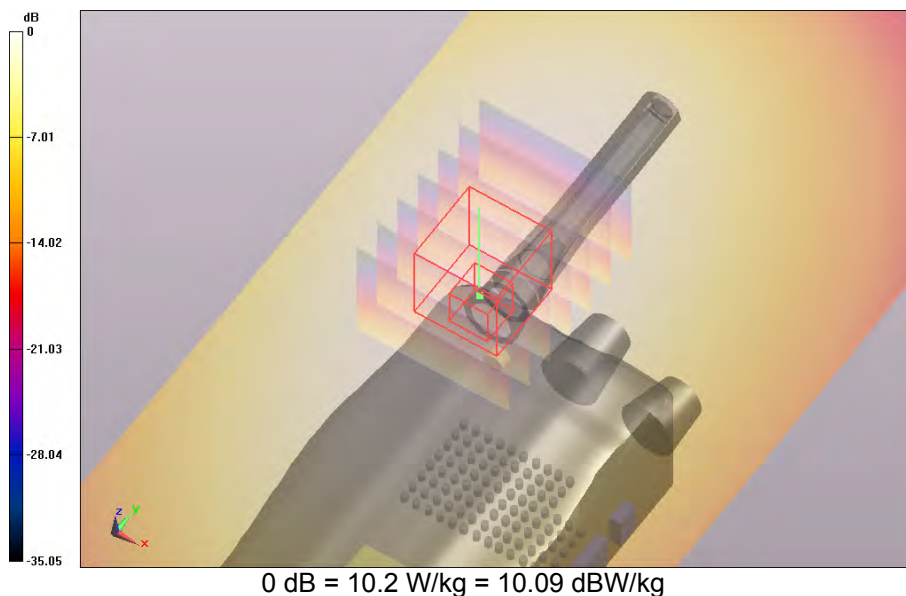
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Battery Clip 16 Key 27-03-14/Channel 1 Test/Area Scan (81x221x1): Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 10.200 W/kg**Body Battery Clip 16 Key 27-03-14/Channel 1 Test/Zoom Scan (26x31x36)/Cube 0:** Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 72.961 V/m; Power Drift = -0.03 dB**Averaged SAR: SAR(1g) = 9.860 W/kg; SAR(10g) = 7.000 W/kg**

Maximum value of SAR (interpolated) = 13.200 W/kg

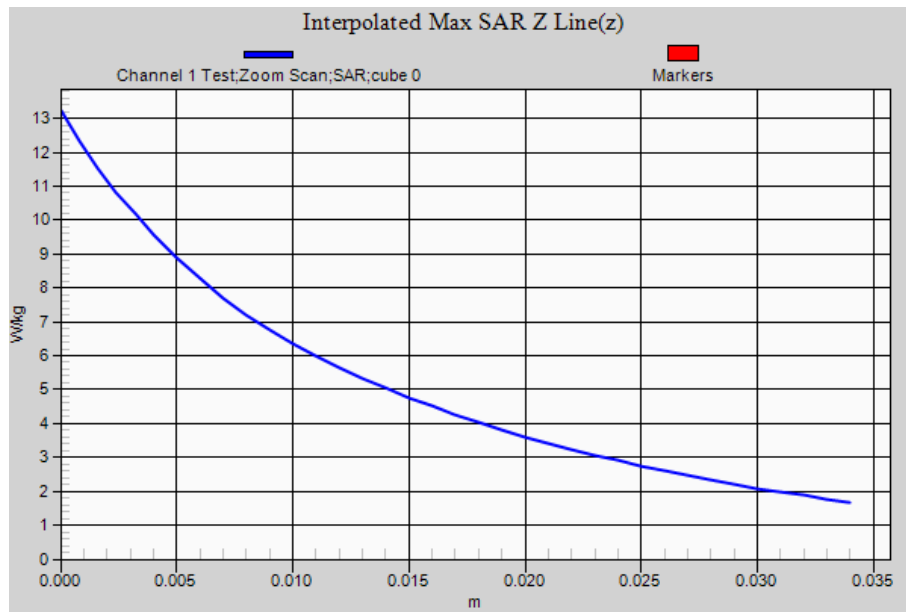


SAR Measurement Plot 45



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Helical FCC.da52:0

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Battery Clip 16 Key 27-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 465.5 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=465.5$ MHz; $\sigma = 0.91$ S/m; $\epsilon_r = 55.4$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

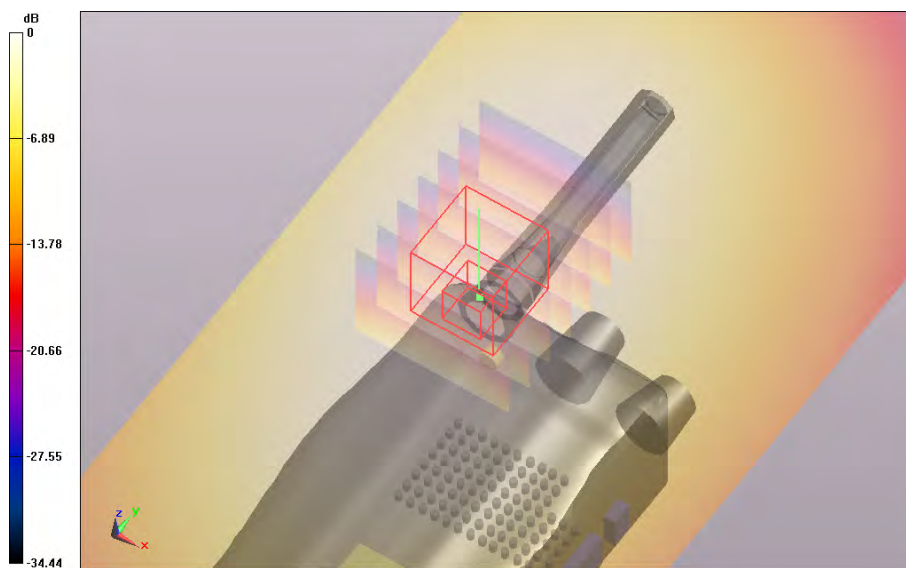
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

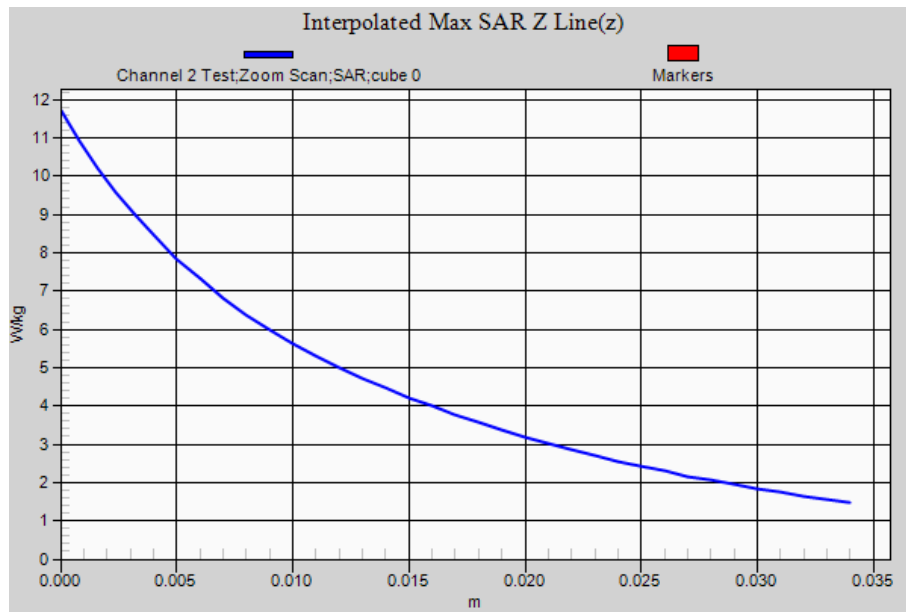
Body Battery Clip 16 Key 27-03-14/Channel 2 Test/Area Scan (81x221x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 8.870 W/kg**Body Battery Clip 16 Key 27-03-14/Channel 2 Test/Zoom Scan (26x31x36)/Cube 0:** Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 68.203 V/m; **Power Drift = -0.14 dB****Averaged SAR: SAR(1g) = 8.630 W/kg; SAR(10g) = 6.120 W/kg**

Maximum value of SAR (interpolated) = 11.700 W/kg



0 dB = 8.87 W/kg = 9.48 dBW/kg

SAR Measurement Plot 46



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Helical FCC.da52:0

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Battery Clip 16 Key 27-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 481.0 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=481$ MHz; $\sigma = 0.92$ S/m; $\epsilon_r = 55.1$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

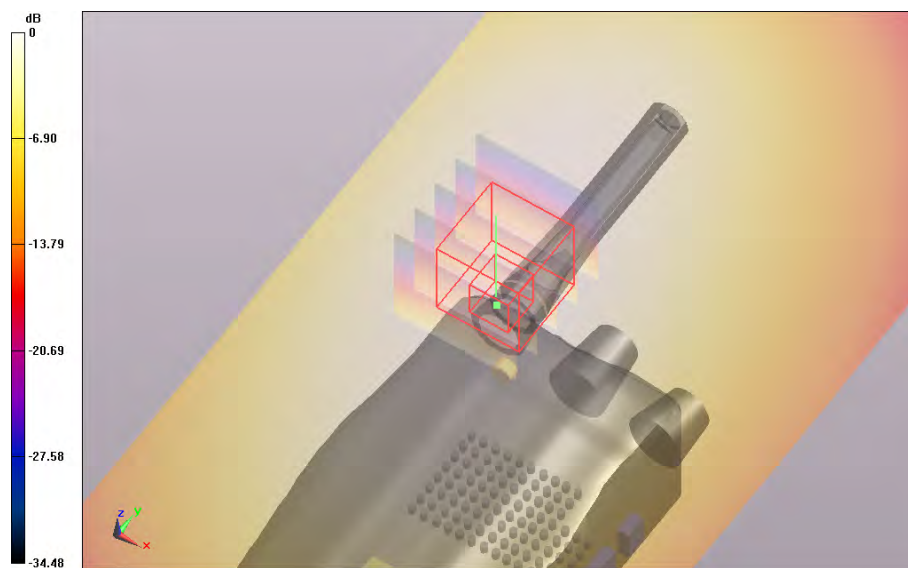
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

DASY52 52.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Battery Clip 16 Key 27-03-14/Channel 3 Test/Area Scan (81x221x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 9.930 W/kg**Body Battery Clip 16 Key 27-03-14/Channel 3 Test/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 80.504 V/m; **Power Drift = -0.18 dB****Averaged SAR: SAR(1g) = 9.290 W/kg; SAR(10g) = 6.570 W/kg**

Maximum value of SAR (interpolated) = 12.800 W/kg



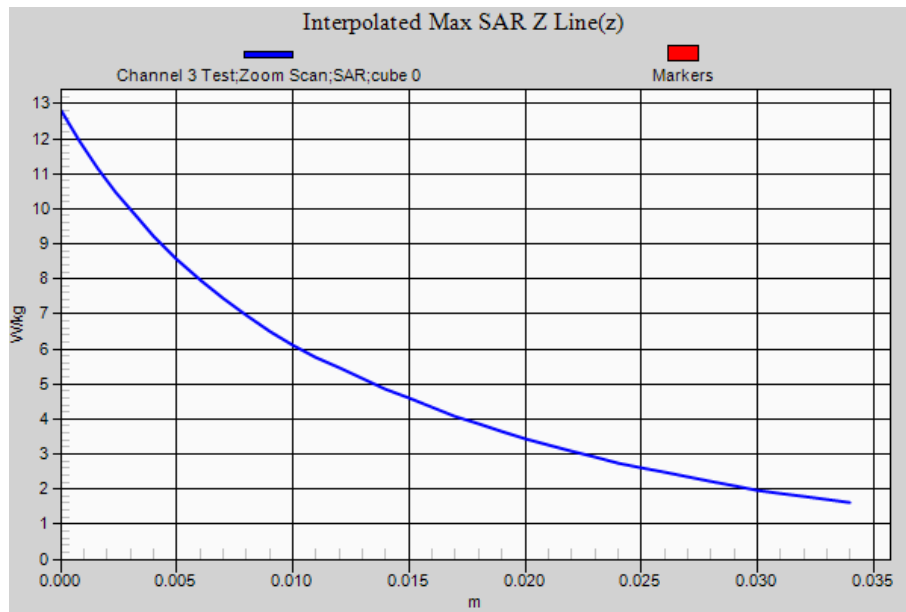
0 dB = 9.93 W/kg = 9.97 dBW/kg

SAR Measurement Plot 47



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Helical FCC.da52:0

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Battery Clip 16 Key 27-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 496.5 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=496.5$ MHz; $\sigma = 0.94$ S/m; $\epsilon_r = 54.8$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

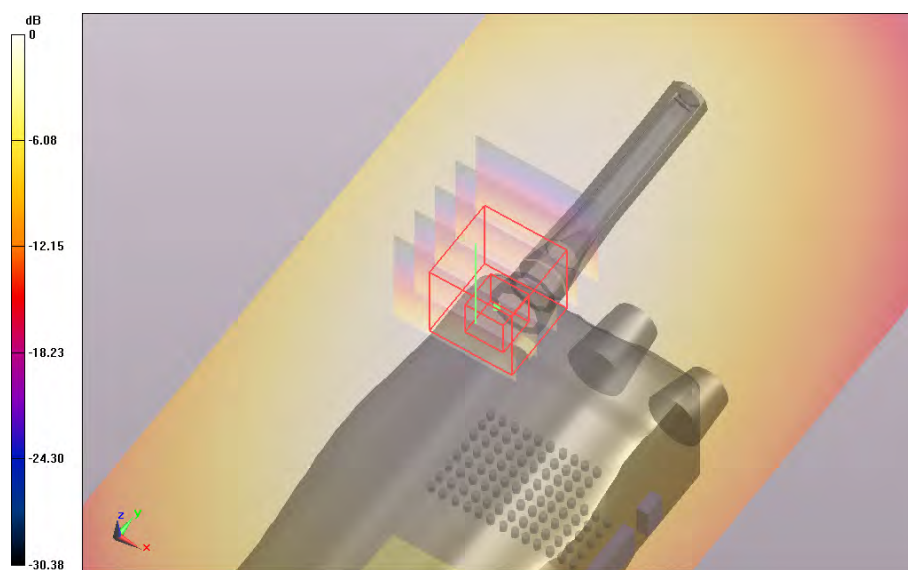
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

DASY52 52.8(1222); SEMCAD X Version 14.6.10 (7331)

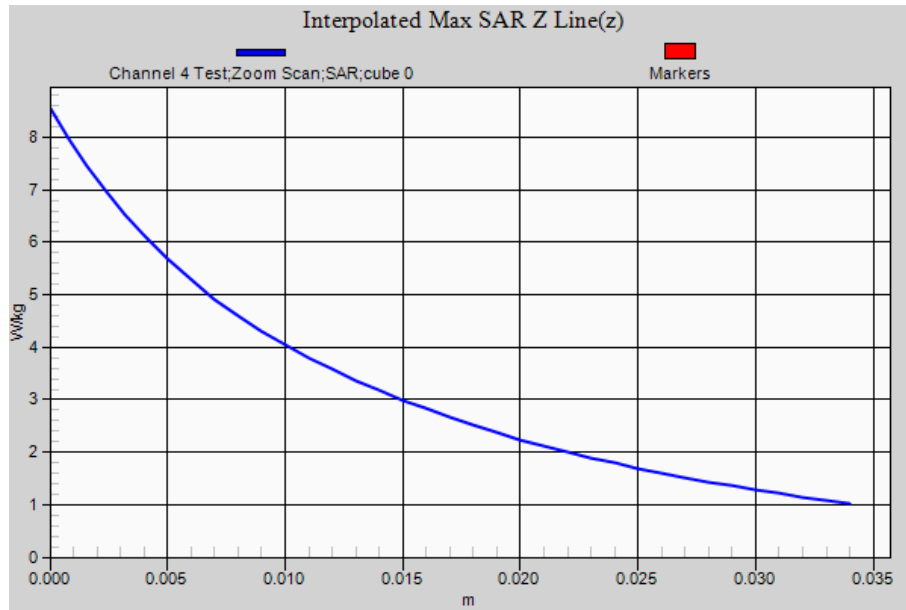
Body Battery Clip 16 Key 27-03-14/Channel 4 Test/Area Scan (81x221x1): Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 6.460 W/kg**Body Battery Clip 16 Key 27-03-14/Channel 4 Test/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 55.078 V/m; **Power Drift = -0.02 dB****Averaged SAR: SAR(1g) = 6.090 W/kg; SAR(10g) = 4.270 W/kg**

Maximum value of SAR (interpolated) = 8.540 W/kg



0 dB = 6.46 W/kg = 8.10 dBW/kg

SAR Measurement Plot 48



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Helical FCC.da52:1

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Nylon Case Battery Clip 16 Key 27-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 450.1 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=450$ MHz; $\sigma = 0.90$ S/m; $\epsilon_r = 55.6$; $\rho = 1000.0\text{g/cm}^3$

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

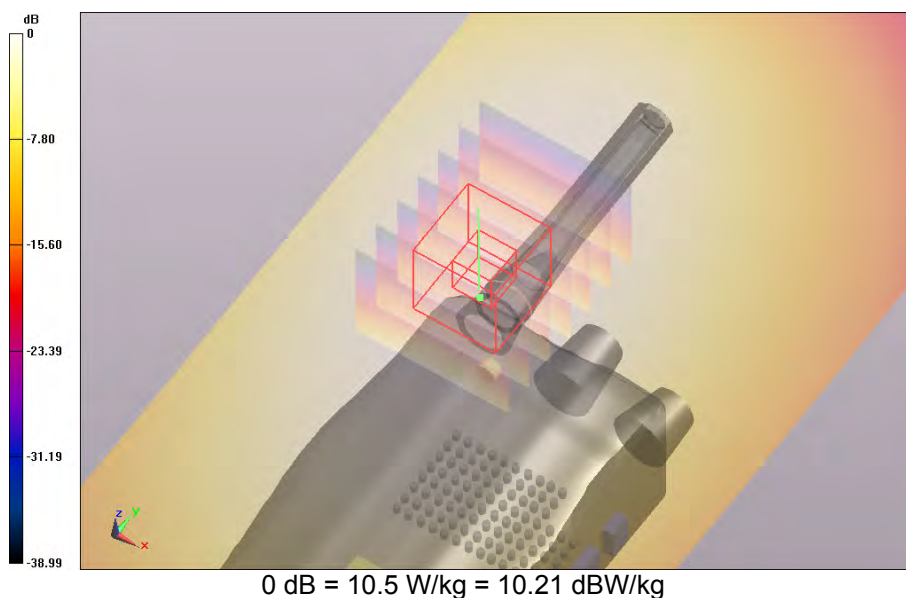
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Nylon Case Battery Clip 16 Key 27-03-14/Channel 1 Test/Area Scan (81x221x1): Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 10.500 W/kg**Body Nylon Case Battery Clip 16 Key 27-03-14/Channel 1 Test/Zoom Scan (26x31x36)/Cube 0:** Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 76.716 V/m; **Power Drift = 0.01 dB****Averaged SAR: SAR(1g) = 10.200 W/kg; SAR(10g) = 7.310 W/kg**

Maximum value of SAR (interpolated) = 13.600 W/kg

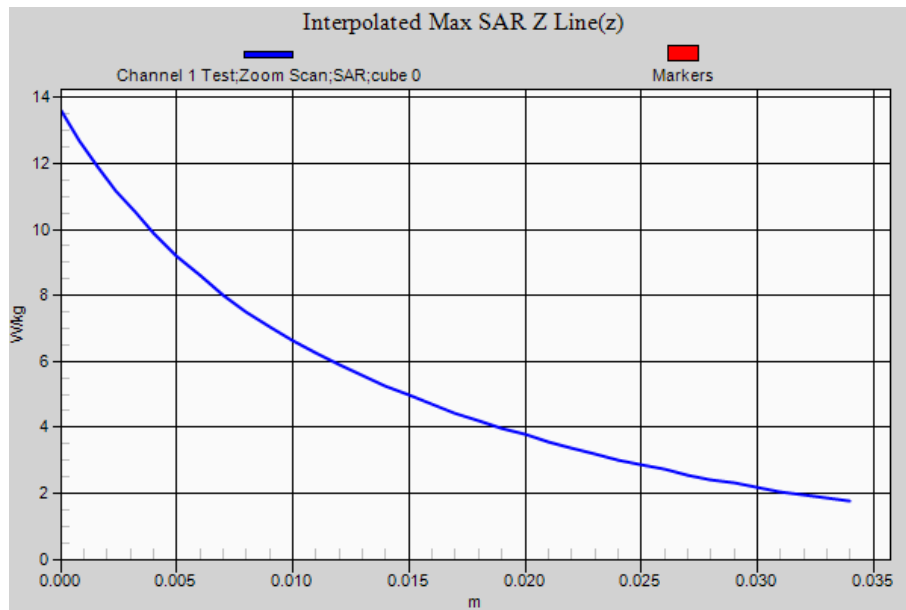


SAR Measurement Plot 49



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Helical FCC.da52:1

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Nylon Case Battery Clip 16 Key 27-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 465.5 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=465.5$ MHz; $\sigma = 0.91$ S/m; $\epsilon_r = 55.4$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

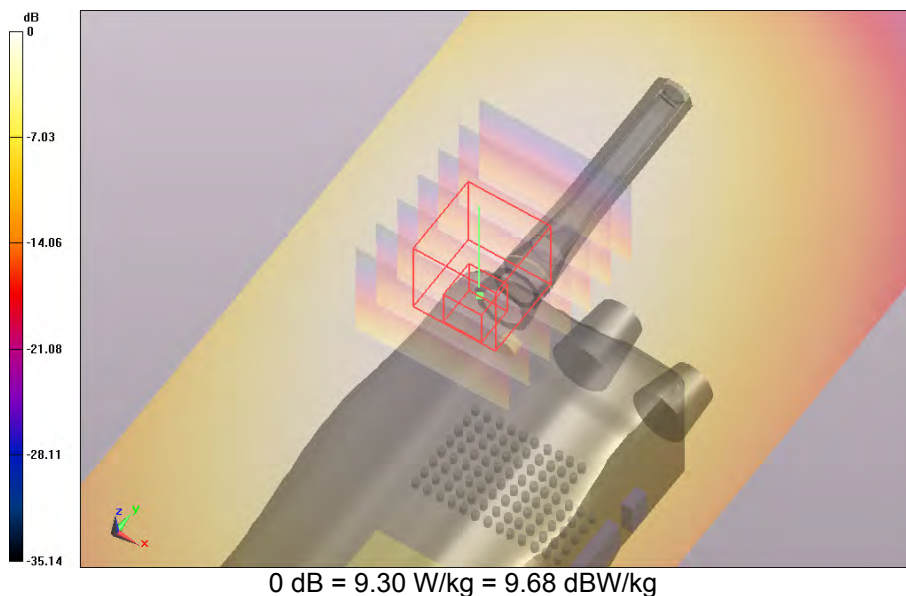
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Nylon Case Battery Clip 16 Key 27-03-14/Channel 2 Test/Area Scan (81x221x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 9.300 W/kg**Body Nylon Case Battery Clip 16 Key 27-03-14/Channel 2 Test/Zoom Scan (26x31x36)/Cube 0:**Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 64.391 V/m; **Power Drift = - 0.15 dB****Averaged SAR: SAR(1g) = 9.110 W/kg; SAR(10g) = 6.490 W/kg**

Maximum value of SAR (interpolated) = 12.300 W/kg

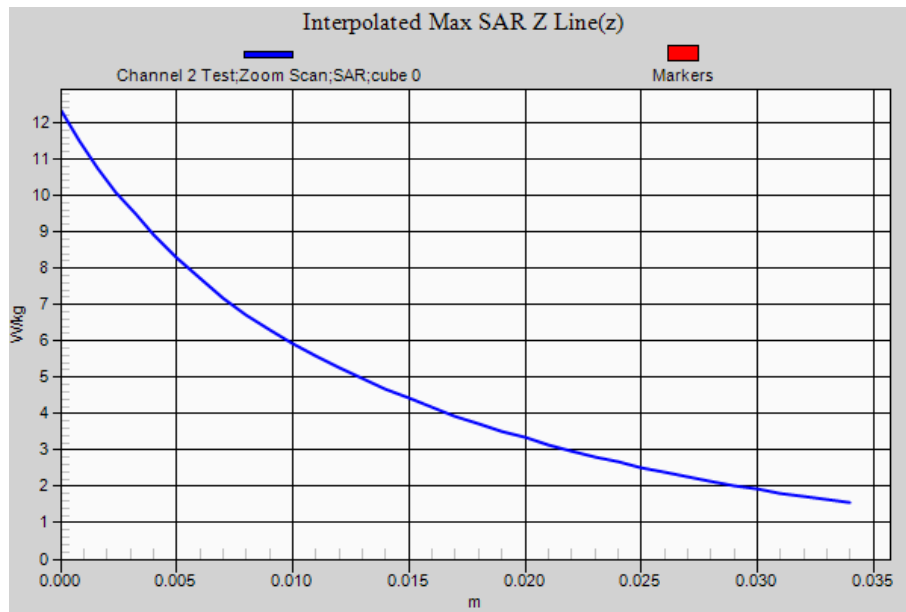


SAR Measurement Plot 50



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Helical FCC.da52:1

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Nylon Case Battery Clip 16 Key 27-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 481.0 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=481$ MHz; $\sigma = 0.92$ S/m; $\epsilon_r = 55.1$; $\rho = 1000.0\text{g/cm}^3$

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

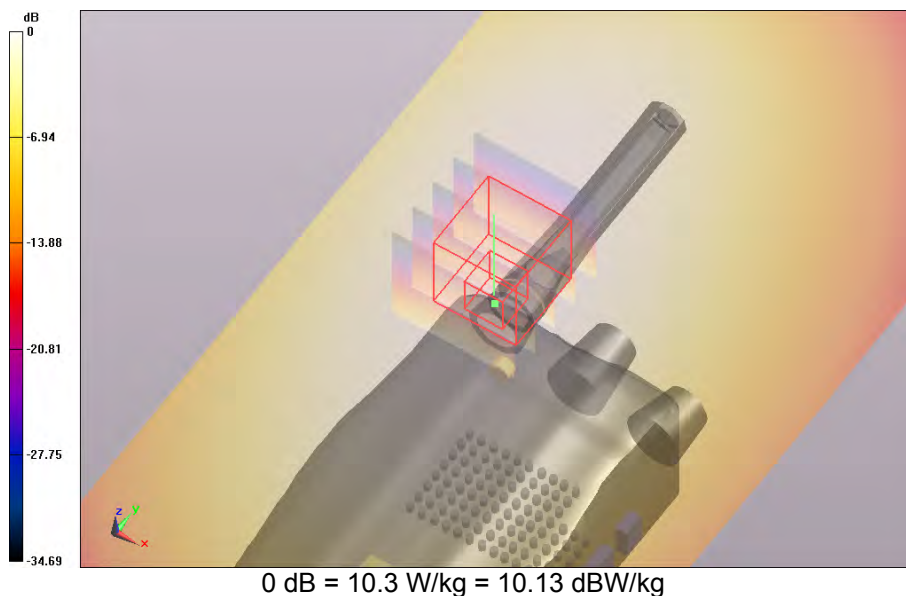
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Nylon Case Battery Clip 16 Key 27-03-14/Channel 3 Test/Area Scan (81x221x1): Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 10.300 W/kg**Body Nylon Case Battery Clip 16 Key 27-03-14/Channel 3 Test/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 83.415 V/m; **Power Drift = - 0.10 dB****Averaged SAR: SAR(1g) = 9.670 W/kg; SAR(10g) = 6.810 W/kg**

Maximum value of SAR (interpolated) = 13.400 W/kg

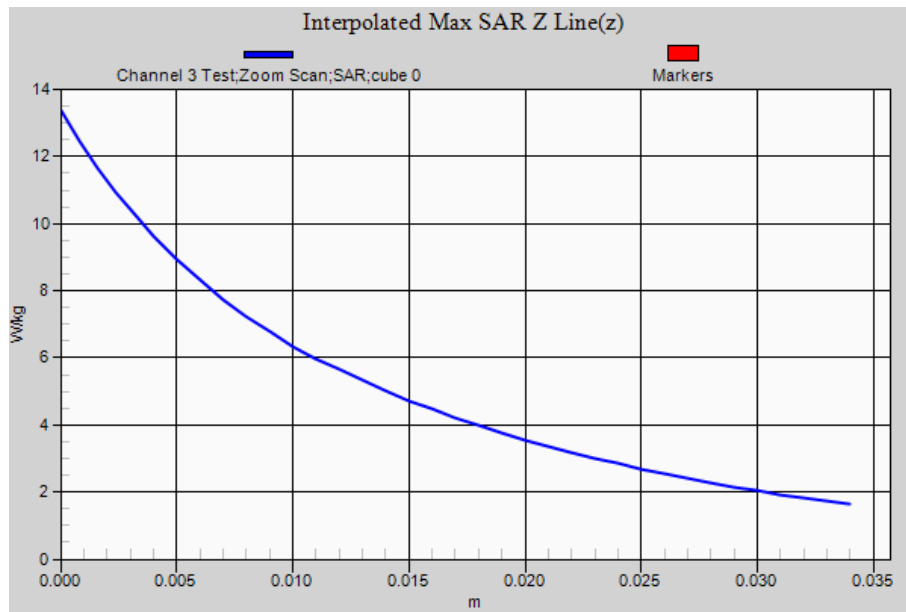


SAR Measurement Plot 51



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Helical FCC.da52:1

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Nylon Case Battery Clip 16 Key 27-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 496.5 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=496.5$ MHz; $\sigma = 0.94$ S/m; $\epsilon_r = 54.8$; $\rho = 1000.0\text{g/cm}^3$

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

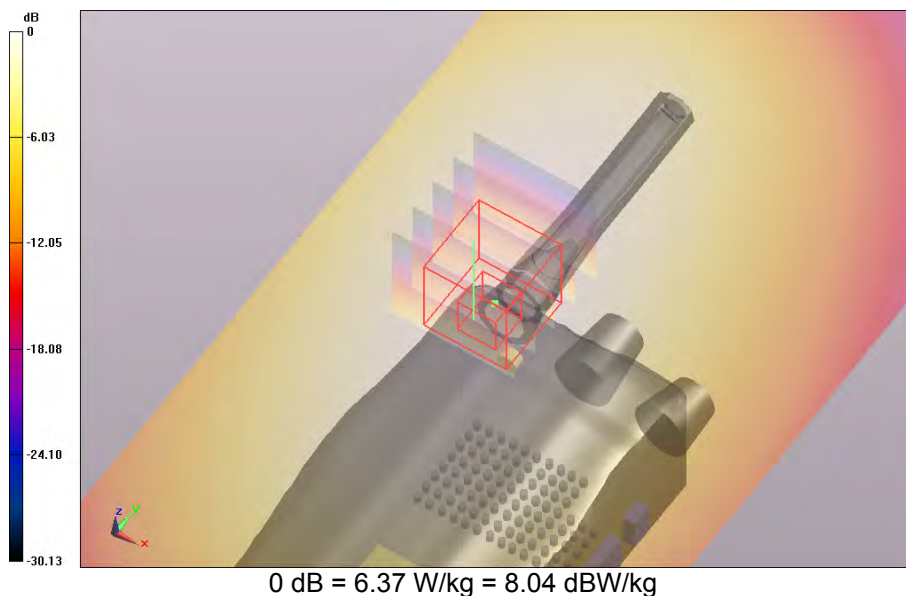
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Nylon Case Battery Clip 16 Key 27-03-14/Channel 4 Test/Area Scan (81x221x1): Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 6.370 W/kg**Body Nylon Case Battery Clip 16 Key 27-03-14/Channel 4 Test/Zoom Scan (21x21x36)/Cube 0:**Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 58.736 V/m; **Power Drift = - 0.12 dB****Averaged SAR: SAR(1g) = 5.900 W/kg; SAR(10g) = 4.150 W/kg**

Maximum value of SAR (interpolated) = 8.290 W/kg

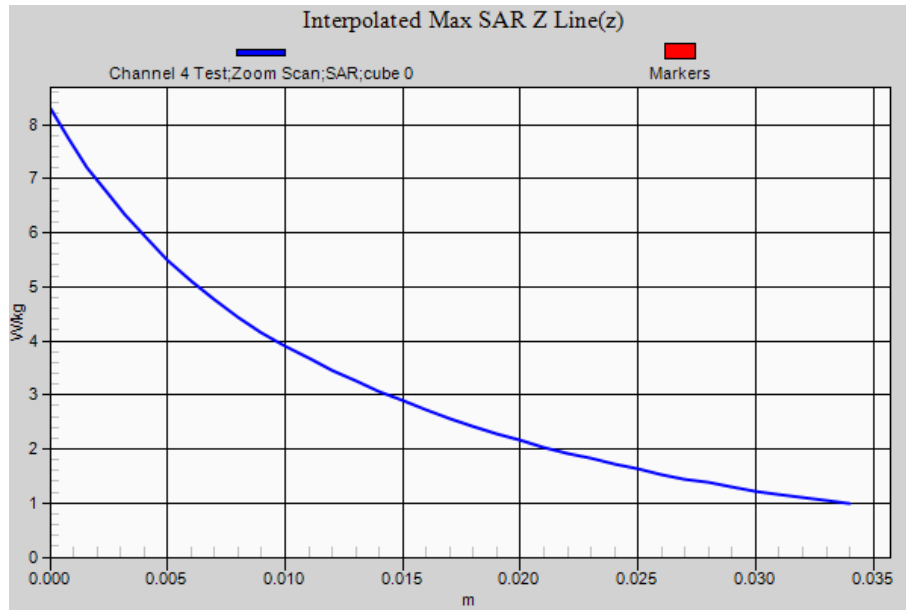


SAR Measurement Plot 52



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Helical FCC.da52:2

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Nylon Case Belt Loop 16 Key 27-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 450.1 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=450$ MHz; $\sigma = 0.90$ S/m; $\epsilon_r = 55.6$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

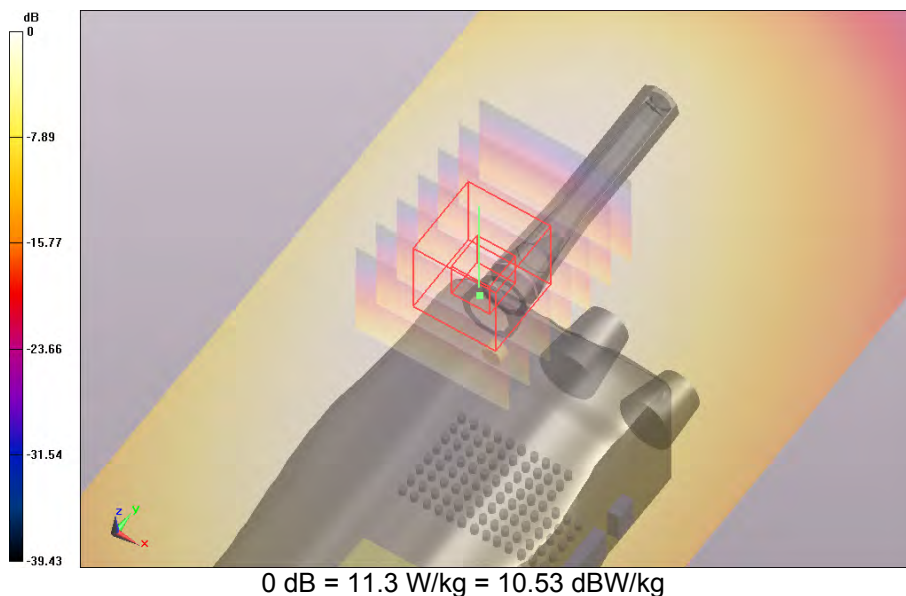
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

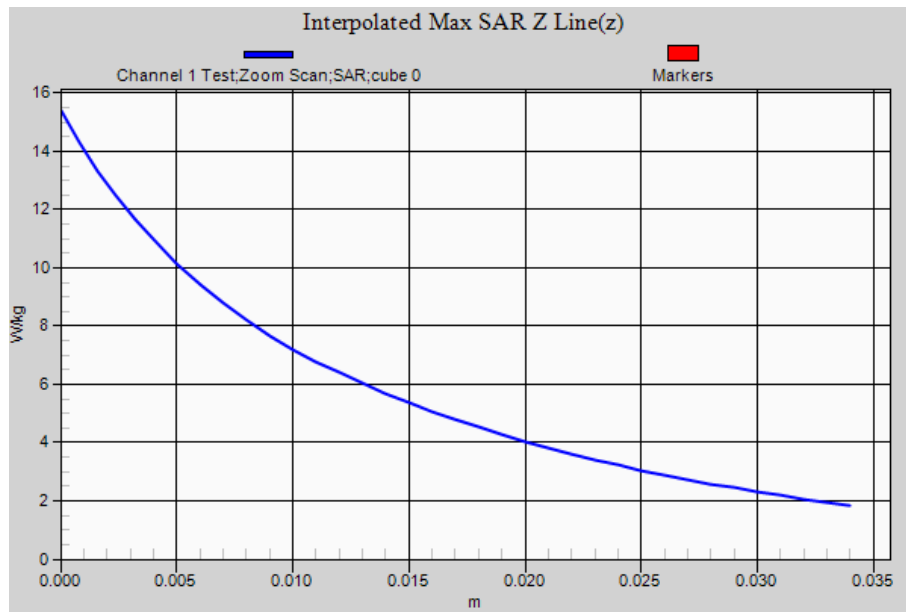
DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Nylon Case Belt Loop 16 Key 27-03-14/Channel 1 Test/Area Scan (81x221x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 11.300 W/kg**Body Nylon Case Belt Loop 16 Key 27-03-14/Channel 1 Test/Zoom Scan (26x31x36)/Cube 0:**Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 76.983 V/m; **Power Drift = - 0.02 dB****Averaged SAR: SAR(1g) = 11.300 W/kg; SAR(10g) = 7.940 W/kg**

Maximum value of SAR (interpolated) = 15.400 W/kg



SAR Measurement Plot 53



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Helical FCC.da52:2

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Nylon Case Belt Loop 16 Key 27-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 465.5 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=465.5$ MHz; $\sigma = 0.91$ S/m; $\epsilon_r = 55.4$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

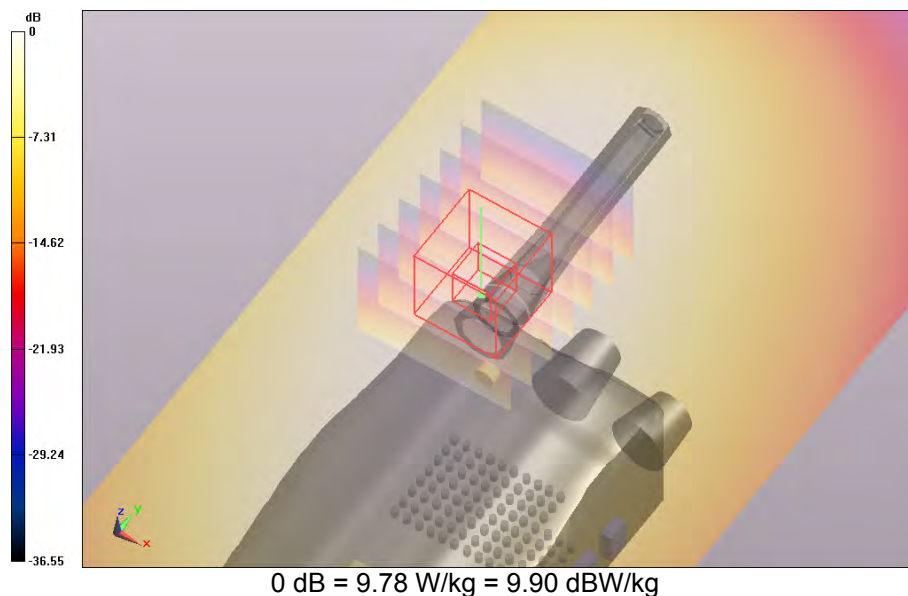
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

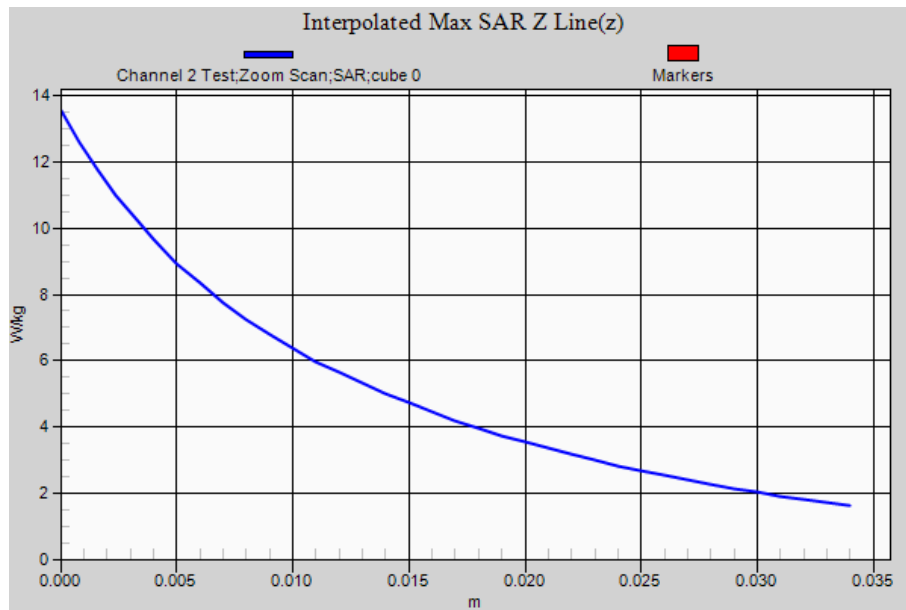
DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Nylon Case Belt Loop 16 Key 27-03-14/Channel 2 Test/Area Scan (81x221x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 9.780 W/kg**Body Nylon Case Belt Loop 16 Key 27-03-14/Channel 2 Test/Zoom Scan (26x31x36)/Cube 0:**Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 79.384 V/m; **Power Drift = - 0.16 dB****Averaged SAR: SAR(1g) = 9.880 W/kg; SAR(10g) = 6.950 W/kg**

Maximum value of SAR (interpolated) = 13.500 W/kg



SAR Measurement Plot 54



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Helical FCC.da52:2

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Nylon Case Belt Loop 16 Key 27-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 481.0 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=481$ MHz; $\sigma = 0.92$ S/m; $\epsilon_r = 55.1$; $\rho = 1000.0\text{g/cm}^3$

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

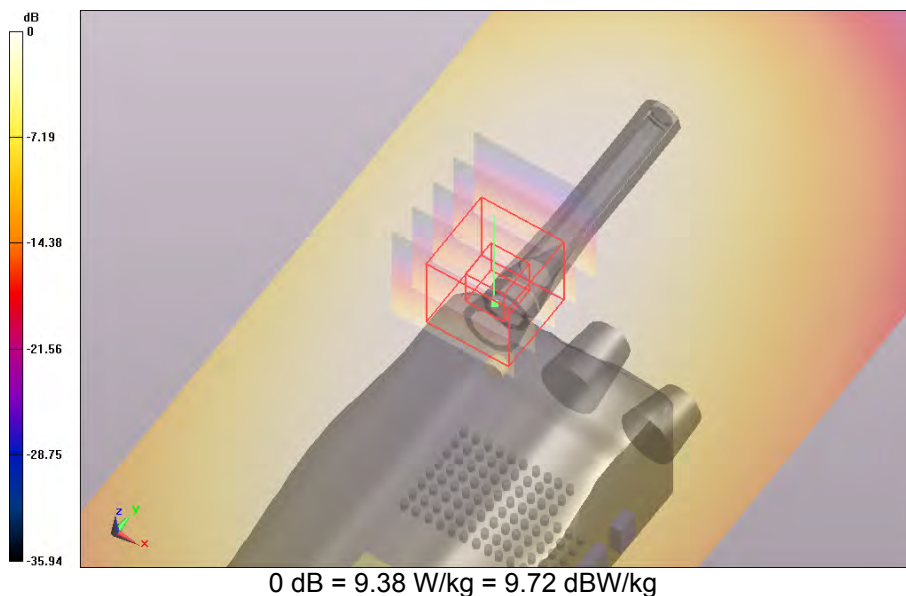
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

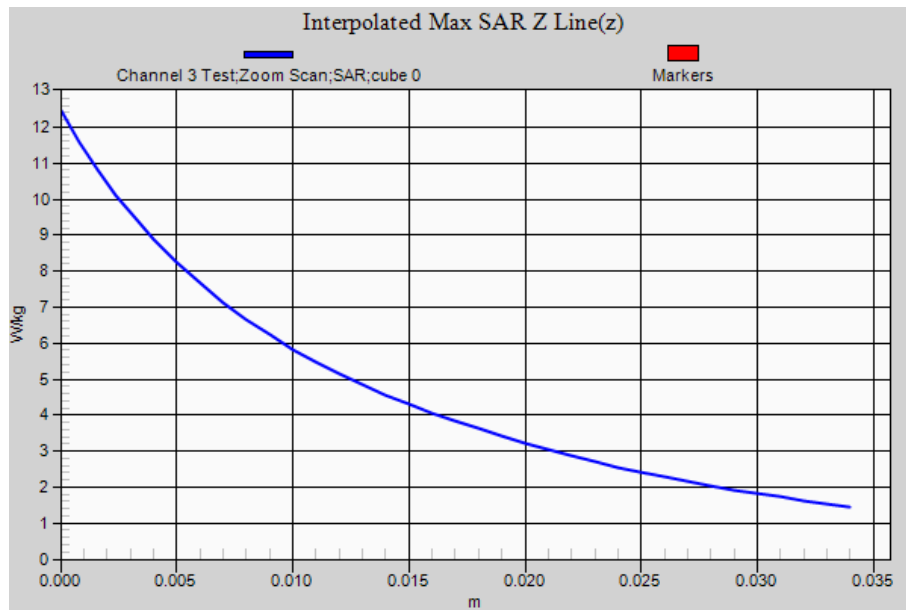
DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Nylon Case Belt Loop 16 Key 27-03-14/Channel 3 Test/Area Scan (81x221x1): Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 9.380 W/kg**Body Nylon Case Belt Loop 16 Key 27-03-14/Channel 3 Test/Zoom Scan (21x21x36)/Cube 0:**Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 75.814 V/m; **Power Drift = - 0.17 dB****Averaged SAR: SAR(1g) = 9.000 W/kg; SAR(10g) = 6.360 W/kg**

Maximum value of SAR (interpolated) = 12.400 W/kg



SAR Measurement Plot 55



Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Helical FCC.da52:2

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Nylon Case Belt Loop 16 Key 27-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 496.5 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=496.5$ MHz; $\sigma = 0.94$ S/m; $\epsilon_r = 54.8$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

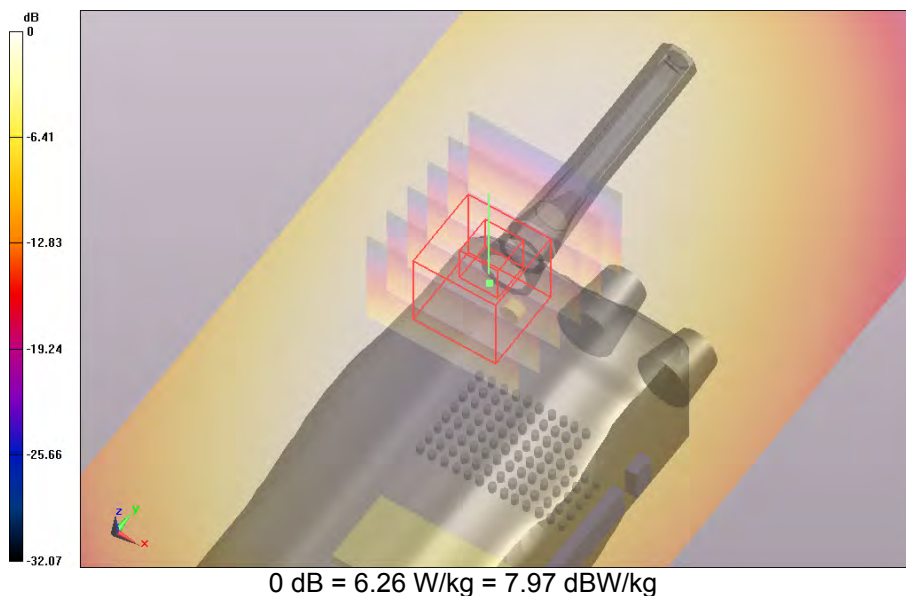
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

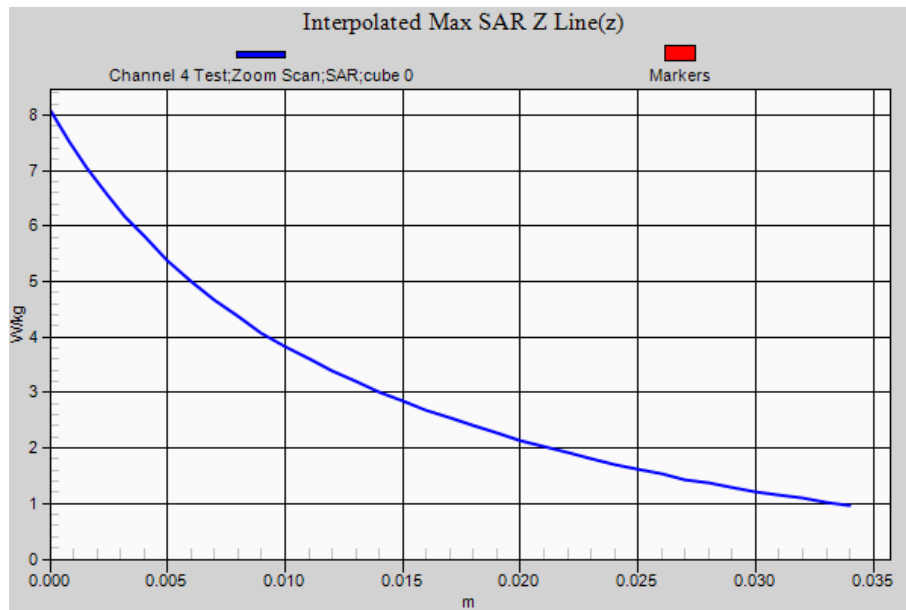
DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Nylon Case Belt Loop 16 Key 27-03-14/Channel 4 Test/Area Scan (81x221x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 6.260 W/kg**Body Nylon Case Belt Loop 16 Key 27-03-14/Channel 4 Test/Zoom Scan (26x26x36)/Cube 0:**Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 58.054 V/m; **Power Drift = - 0.16 dB****Averaged SAR: SAR(1g) = 5.800 W/kg; SAR(10g) = 4.160 W/kg**

Maximum value of SAR (interpolated) = 8.080 W/kg



SAR Measurement Plot 56



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Helical FCC.da52:3

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Nylon Case Belt Loop 16 Key 03-06-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 459.9 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=460$ MHz; $\sigma = 0.97$ S/m; $\epsilon_r = 57.6$; $\rho = 1000.0\text{g/cm}^3$
 Phantom section: Flat Section

DASY Configuration:

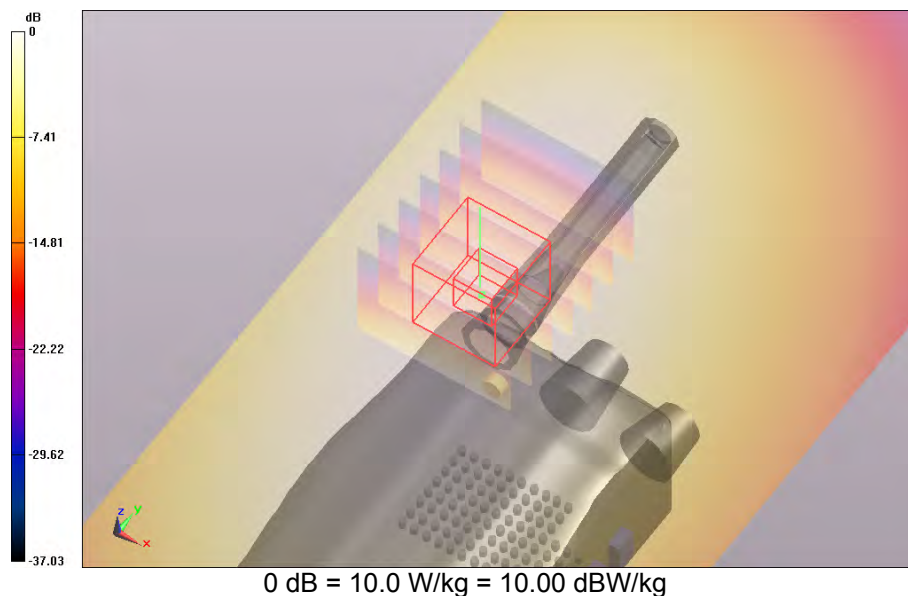
Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection)
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Nylon Case Belt Loop 16 Key 03-06-14/Channel 6 Test/Area Scan (81x221x1): Interpolated grid:
 $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 10.000 W/kg

Body Nylon Case Belt Loop 16 Key 03-06-14/Channel 6 Test/Zoom Scan (26x31x36)/Cube 0:
 Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 80.057 V/m; **Power Drift = 0.12 dB**

Averaged SAR: SAR(1g) = 9.370 W/kg; SAR(10g) = 6.690 W/kg

Maximum value of SAR (interpolated) = 13.800 W/kg

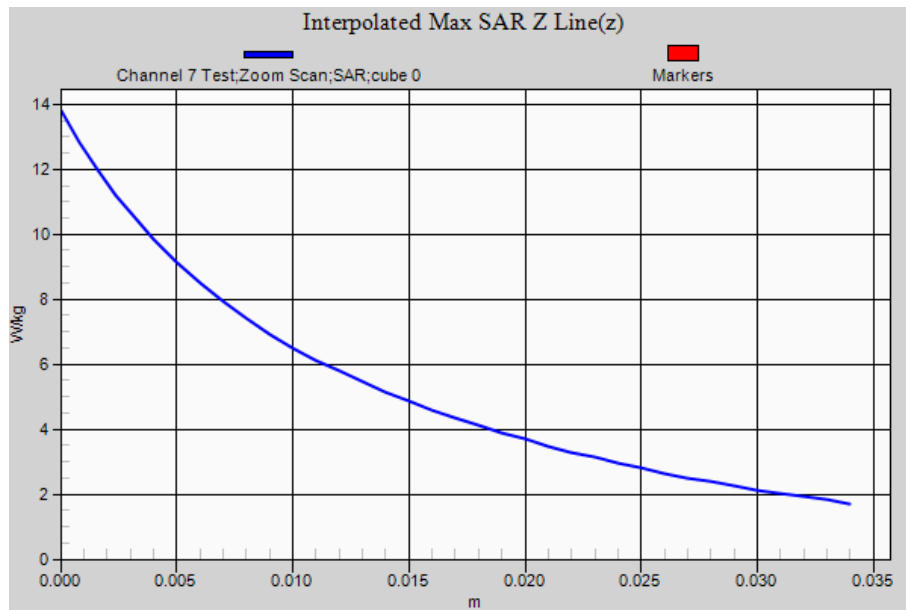


SAR Measurement Plot 57



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Helical FCC.da52:3

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Nylon Case Belt Loop 16 Key 03-06-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 469.9 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=470$ MHz; $\sigma = 0.98$ S/m; $\epsilon_r = 57.4$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

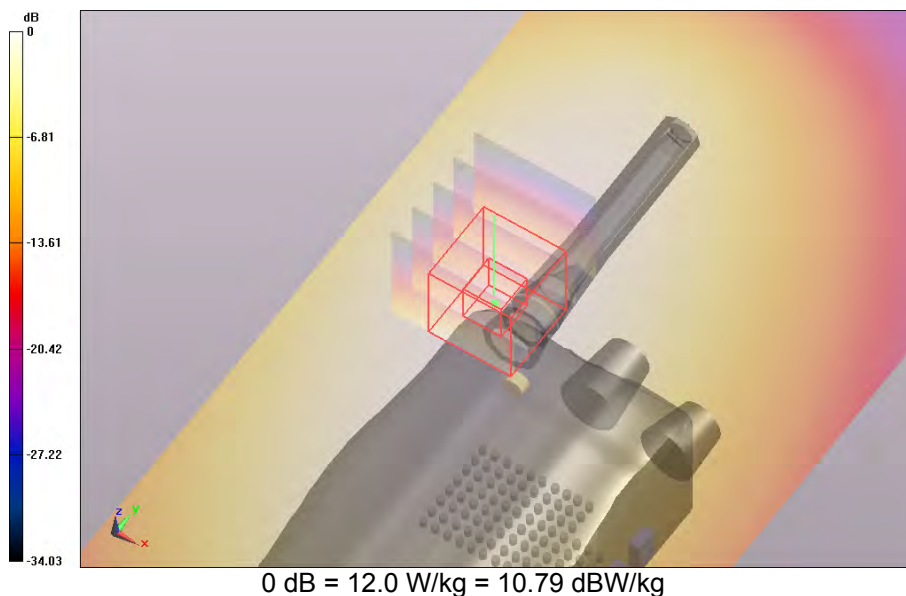
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

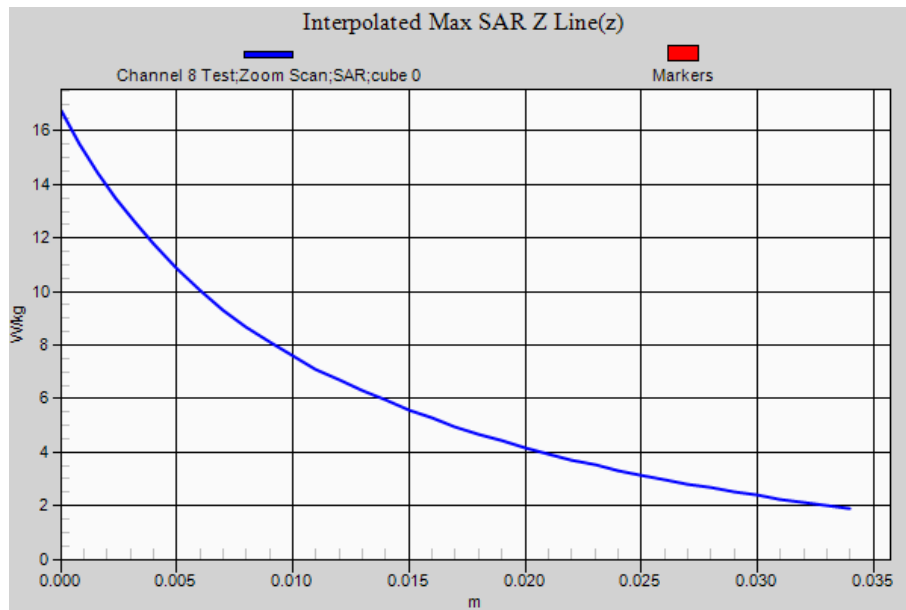
DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Nylon Case Belt Loop 16 Key 03-06-14/Channel 7 Test/Area Scan (81x221x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 12.000 W/kg**Body Nylon Case Belt Loop 16 Key 03-06-14/Channel 7 Test/Zoom Scan (21x21x36)/Cube 0:**Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 84.700 V/m; **Power Drift = - 0.01 dB****Averaged SAR: SAR(1g) = 11.100 W/kg; SAR(10g) = 7.800 W/kg**

Maximum value of SAR (interpolated) = 16.700 W/kg



SAR Measurement Plot 58



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Helical FCC.da52:4

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Nylon Case D-Stud Spring Clip 16 Key 28-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 481.0 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=481$ MHz; $\sigma = 0.95$ S/m; $\epsilon_r = 55.0$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

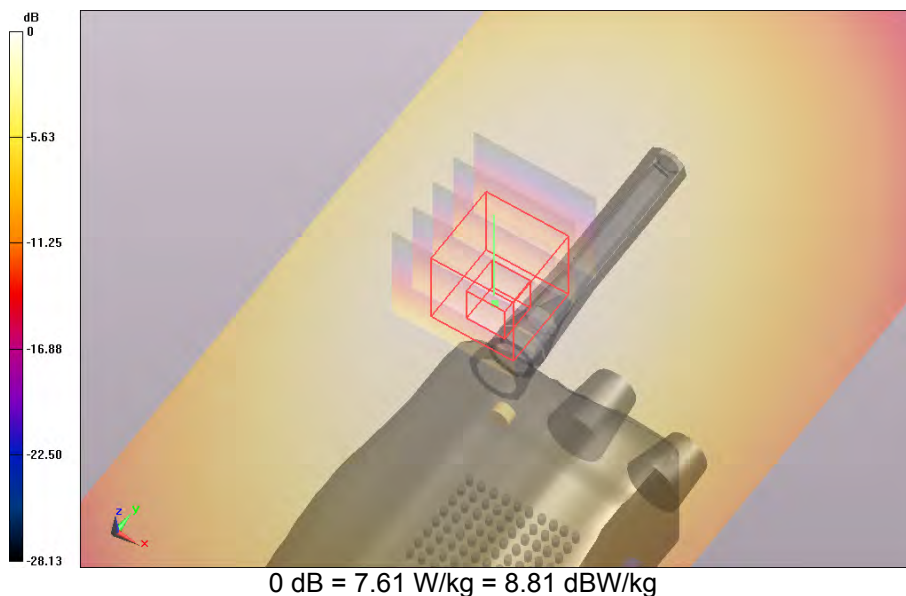
DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Nylon Case D-Stud Spring Clip 16 Key 28-03-14/Channel 3 Test/Area Scan (81x221x1):

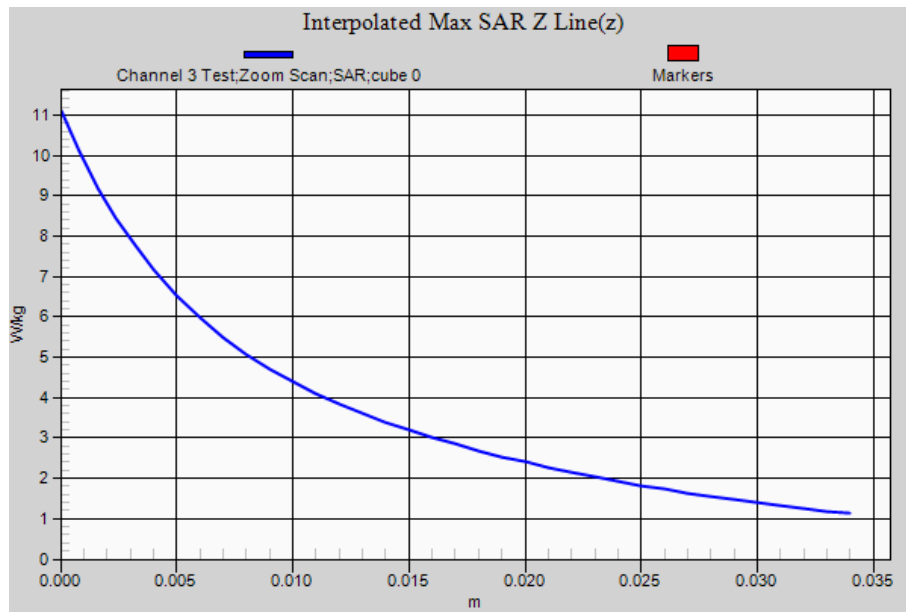
Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 7.610 W/kg

Body Nylon Case D-Stud Spring Clip 16 Key 28-03-14/Channel 3 Test/Zoom Scan (21x21x36)/Cube**0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 63.020 V/m; Power Drift = -0.19 dB****Averaged SAR: SAR(1g) = 7.000 W/kg; SAR(10g) = 4.670 W/kg**

Maximum value of SAR (interpolated) = 11.100 W/kg



SAR Measurement Plot 59



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Helical FCC.da52:5

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Nylon Case D-Stud Belt Loop 16 Key 28-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 481.0 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=481$ MHz; $\sigma = 0.95$ S/m; $\epsilon_r = 55.0$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

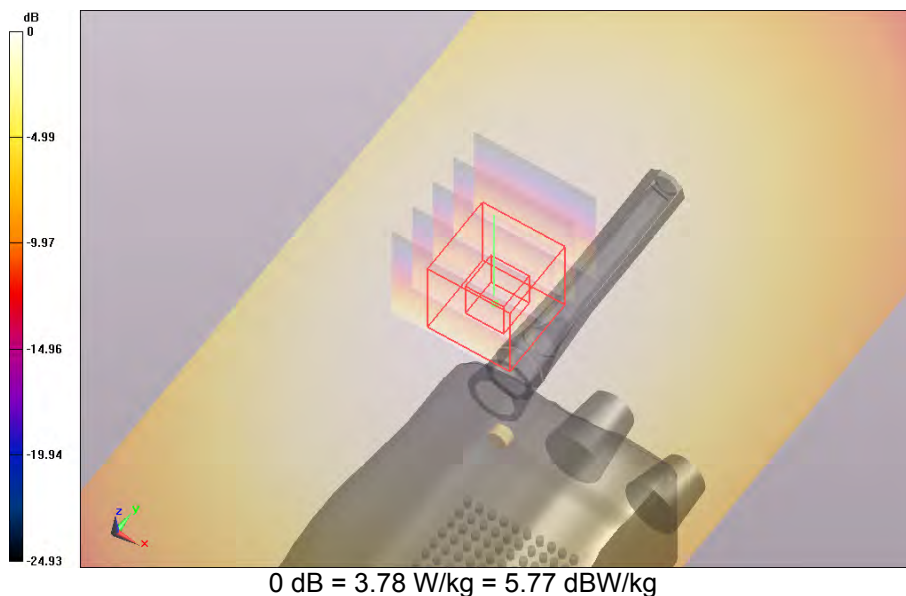
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

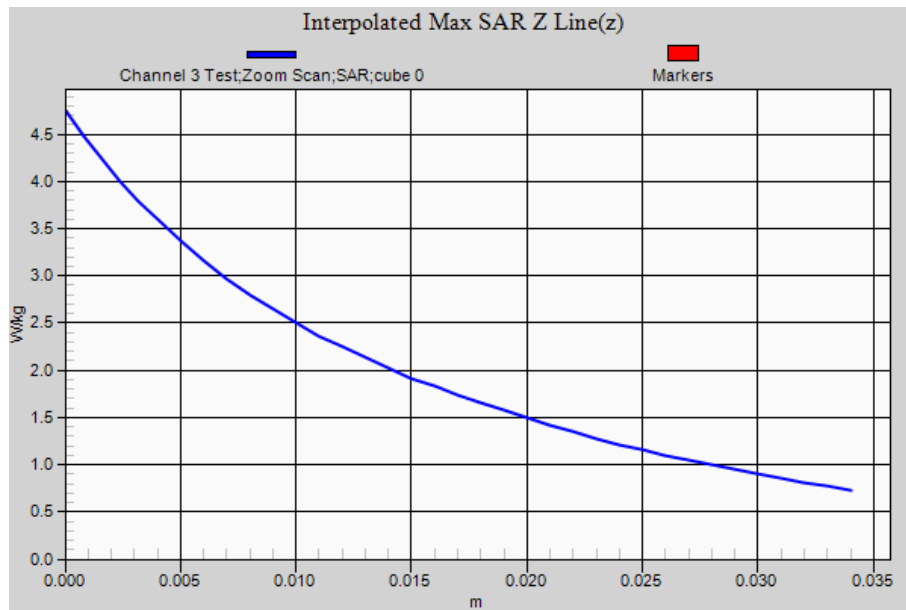
DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Nylon Case D-Stud Belt Loop 16 Key 28-03-14/Channel 3 Test/Area Scan (81x221x1):Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 3.780 W/kg**Body Nylon Case D-Stud Belt Loop 16 Key 28-03-14/Channel 3 Test/Zoom Scan (21x21x36)/Cube**0: Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 47.268 V/m; **Power Drift = -0.08 dB****Averaged SAR: SAR(1g) = 3.560 W/kg; SAR(10g) = 2.630 W/kg**

Maximum value of SAR (interpolated) = 4.750 W/kg



SAR Measurement Plot 60



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Helical FCC.da52:6

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Soft Leather Case Battery Clip 16 Key 28-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 450.1 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=450$ MHz; $\sigma = 0.92$ S/m; $\epsilon_r = 55.4$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

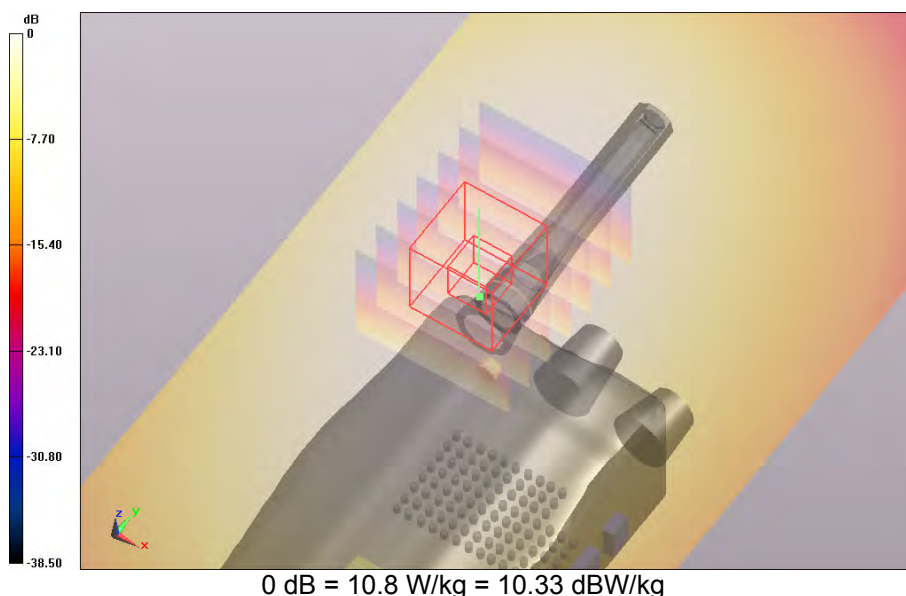
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

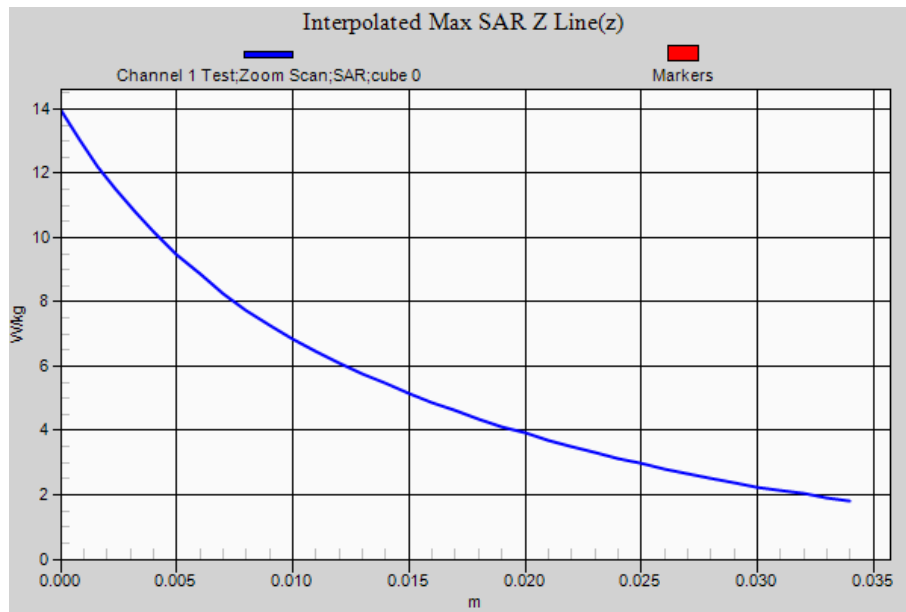
DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Soft Leather Case Battery Clip 16 Key 28-03-14/Channel 1 Test/Area Scan (81x221x1):Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 10.800 W/kg**Body Soft Leather Case Battery Clip 16 Key 28-03-14/Channel 1 Test/Zoom Scan (26x31x36)/Cube 0:** Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 78.545 V/m; **Power Drift = -0.18 dB****Averaged SAR: SAR(1g) = 10.300 W/kg; SAR(10g) = 7.390 W/kg**

Maximum value of SAR (interpolated) = 13.900 W/kg



SAR Measurement Plot 61



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Helical FCC.da52:6

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Soft Leather Case Battery Clip 16 Key 28-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 465.5 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=465.5$ MHz; $\sigma = 0.94$ S/m; $\epsilon_r = 55.3$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

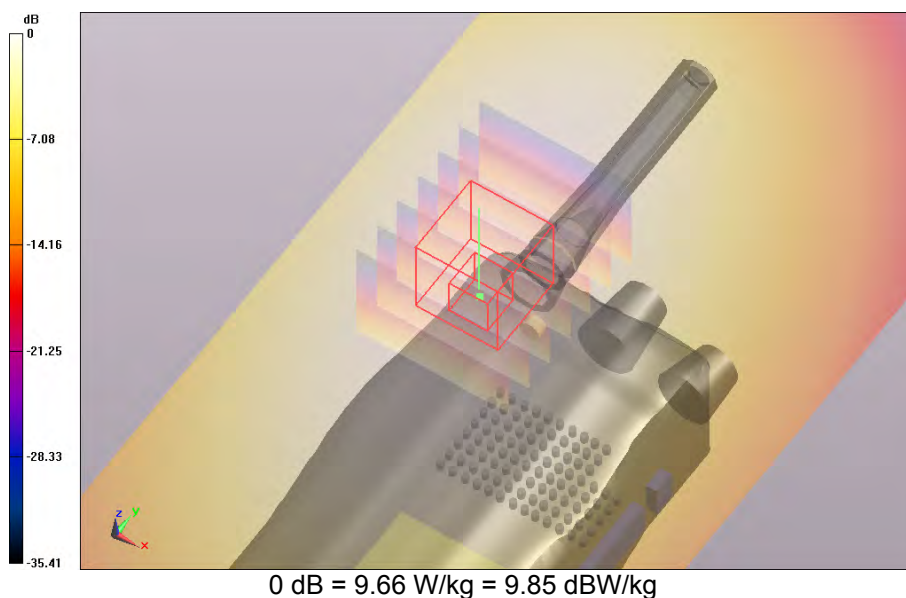
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Soft Leather Case Battery Clip 16 Key 28-03-14/Channel 2 Test/Area Scan (81x221x1):Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 9.660 W/kg**Body Soft Leather Case Battery Clip 16 Key 28-03-14/Channel 2 Test/Zoom Scan (26x31x36)/Cube 0:** Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 63.441 V/m; **Power Drift = -0.16 dB****Averaged SAR: SAR(1g) = 9.370 W/kg; SAR(10g) = 6.680 W/kg**

Maximum value of SAR (interpolated) = 12.900 W/kg

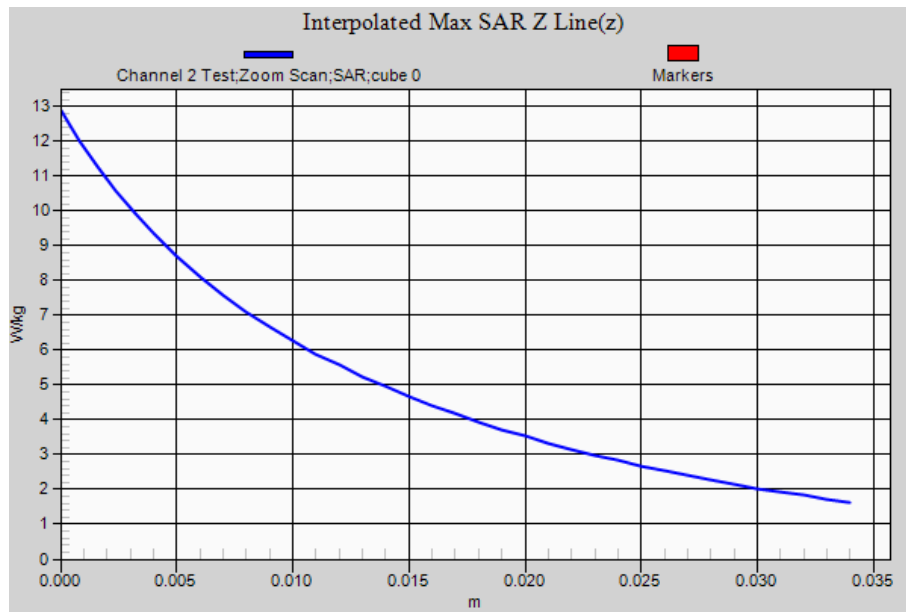


SAR Measurement Plot 62



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Helical FCC.da52:6

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Soft Leather Case Battery Clip 16 Key 28-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 481.0 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=481$ MHz; $\sigma = 0.95$ S/m; $\epsilon_r = 55.0$; $\rho = 1000.0\text{g/cm}^3$

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

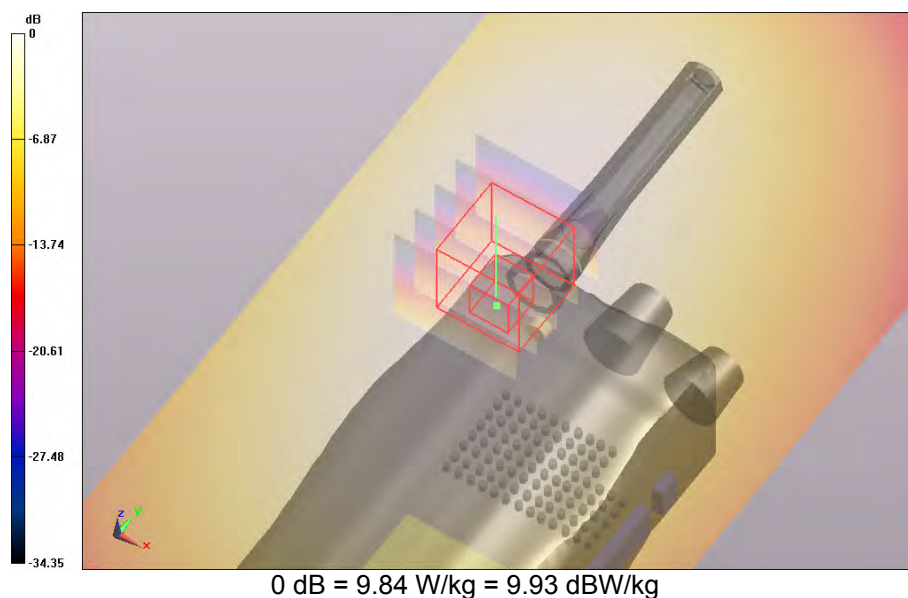
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

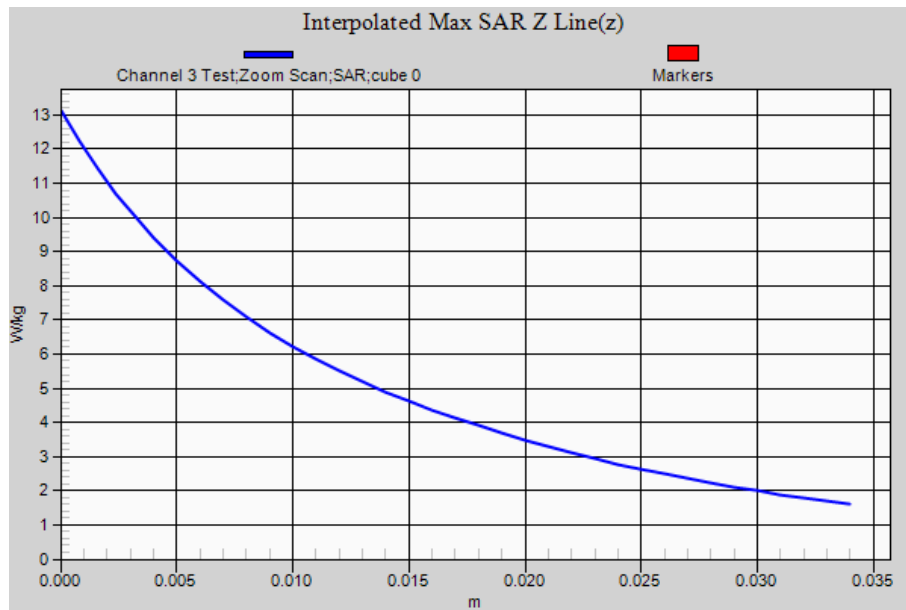
DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Soft Leather Case Battery Clip 16 Key 28-03-14/Channel 3 Test/Area Scan (81x221x1):Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 9.840 W/kg**Body Soft Leather Case Battery Clip 16 Key 28-03-14/Channel 3 Test/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 68.281 V/m; **Power Drift = 0.05 dB****Averaged SAR: SAR(1g) = 9.310 W/kg; SAR(10g) = 6.580 W/kg**

Maximum value of SAR (interpolated) = 13.100 W/kg



SAR Measurement Plot 63



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Helical FCC.da52:6

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Soft Leather Case Battery Clip 16 Key 28-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 496.5 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=496.5$ MHz; $\sigma = 0.96$ S/m; $\epsilon_r = 54.7$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

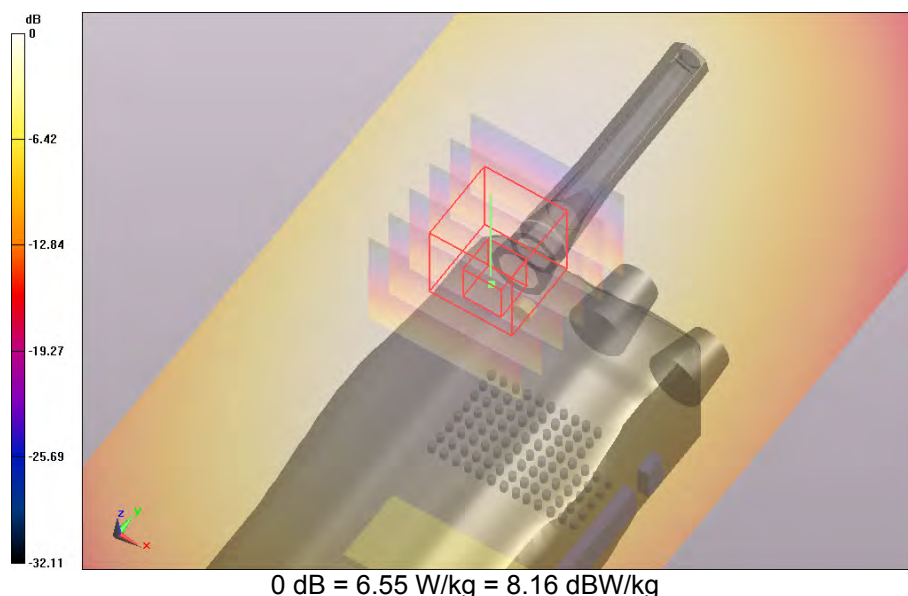
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

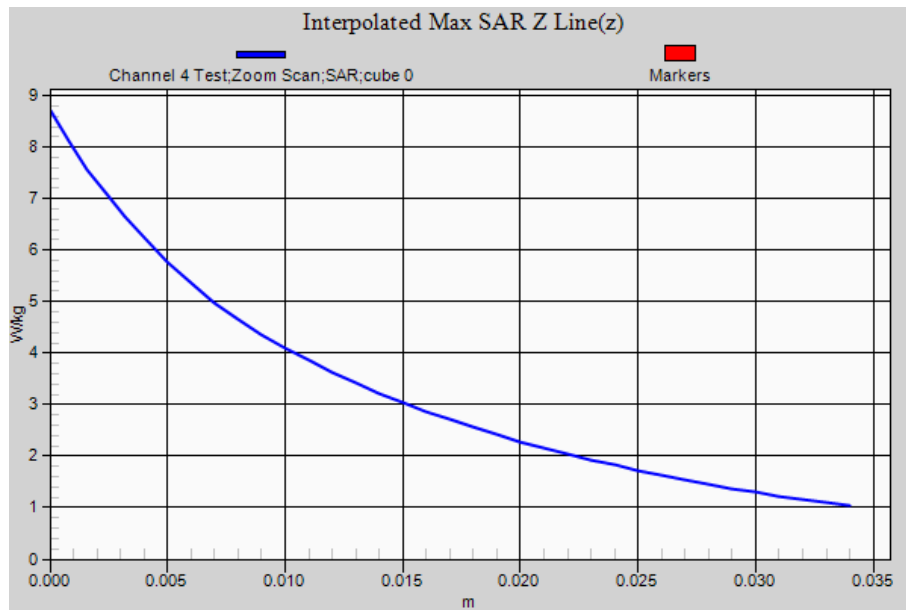
DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Soft Leather Case Battery Clip 16 Key 28-03-14/Channel 4 Test/Area Scan (81x221x1):Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 6.550 W/kg**Body Soft Leather Case Battery Clip 16 Key 28-03-14/Channel 4 Test/Zoom Scan (26x26x36)/Cube****0: Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 57.208 V/m; Power Drift = -0.12 dB****Averaged SAR: SAR(1g) = 6.050 W/kg; SAR(10g) = 4.250 W/kg**

Maximum value of SAR (interpolated) = 8.700 W/kg



SAR Measurement Plot 64



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Helical FCC.da52:7

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Leather Case Spring Clip 16 Key 28-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 450.1 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=450$ MHz; $\sigma = 0.92$ S/m; $\epsilon_r = 55.4$; $\rho = 1000.0$ g/cm³
 Phantom section: Flat Section

DASY Configuration:

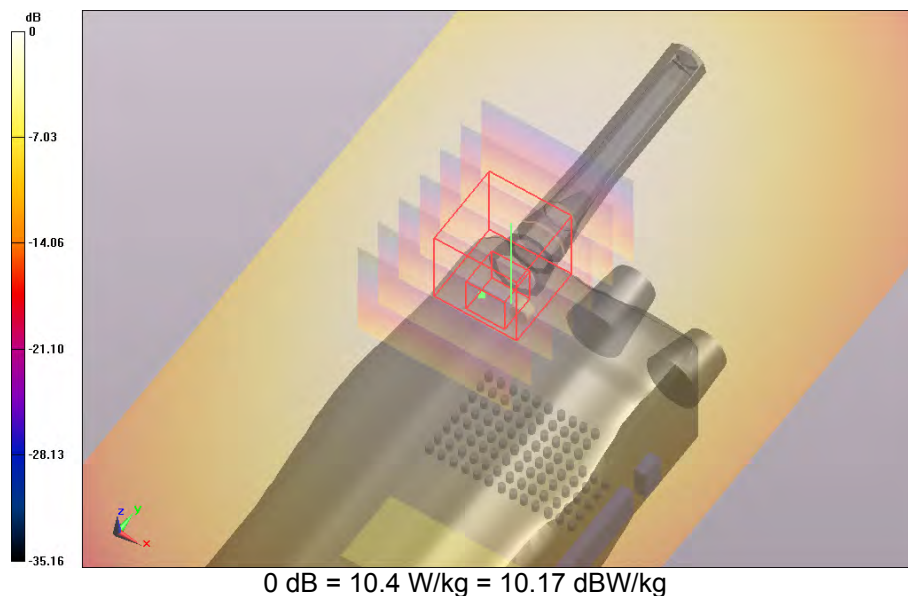
Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Leather Case Spring Clip 16 Key 28-03-14/Channel 1 Test/Area Scan (81x221x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 10.400 W/kg

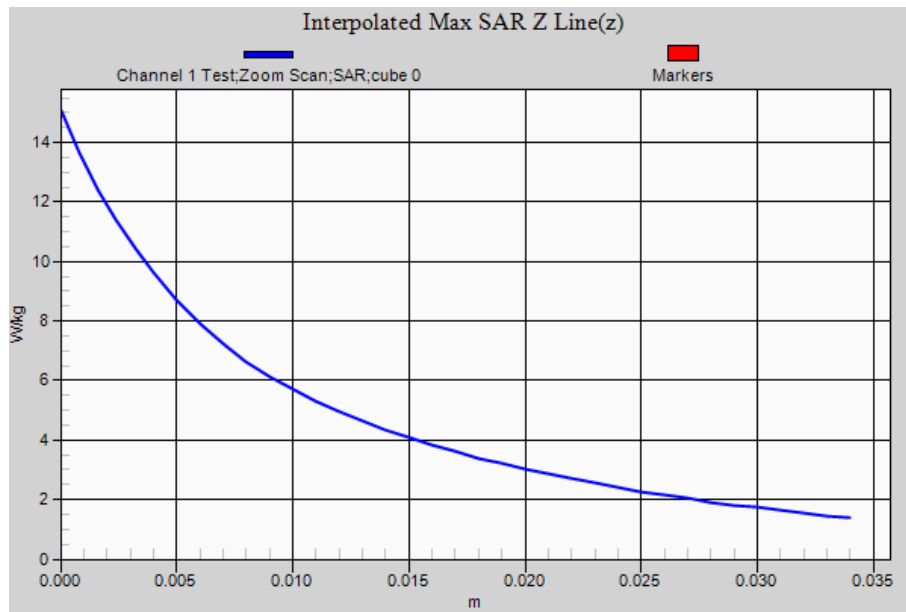
Body Leather Case Spring Clip 16 Key 28-03-14/Channel 1 Test/Zoom Scan (26x31x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 66.256 V/m; **Power Drift = - 0.02 dB**

Averaged SAR: SAR(1g) = 9.430 W/kg; SAR(10g) = 6.160 W/kg

Maximum value of SAR (interpolated) = 15.100 W/kg



SAR Measurement Plot 65



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Helical FCC.da52:7

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Leather Case Spring Clip 16 Key 28-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 465.5 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=465.5$ MHz; $\sigma = 0.94$ S/m; $\epsilon_r = 55.3$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

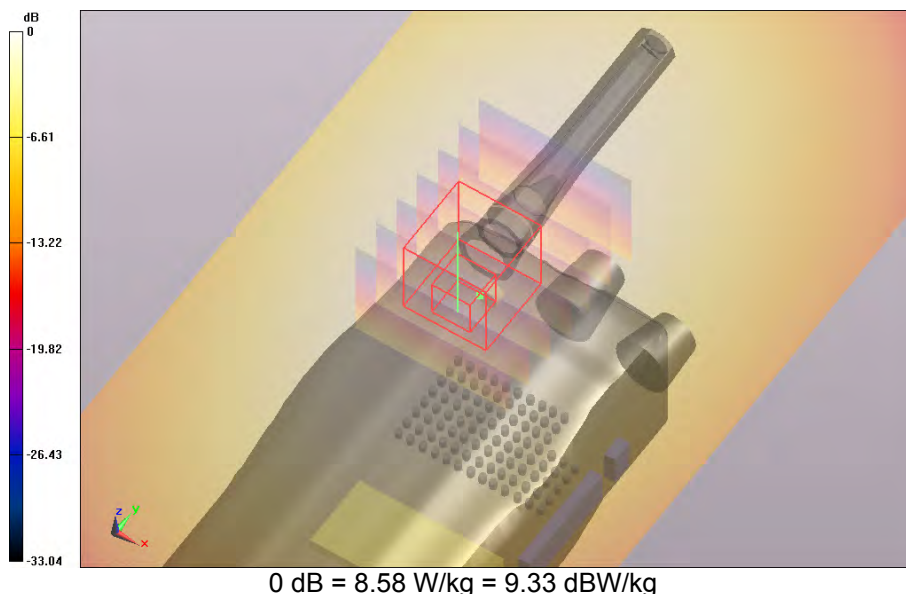
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

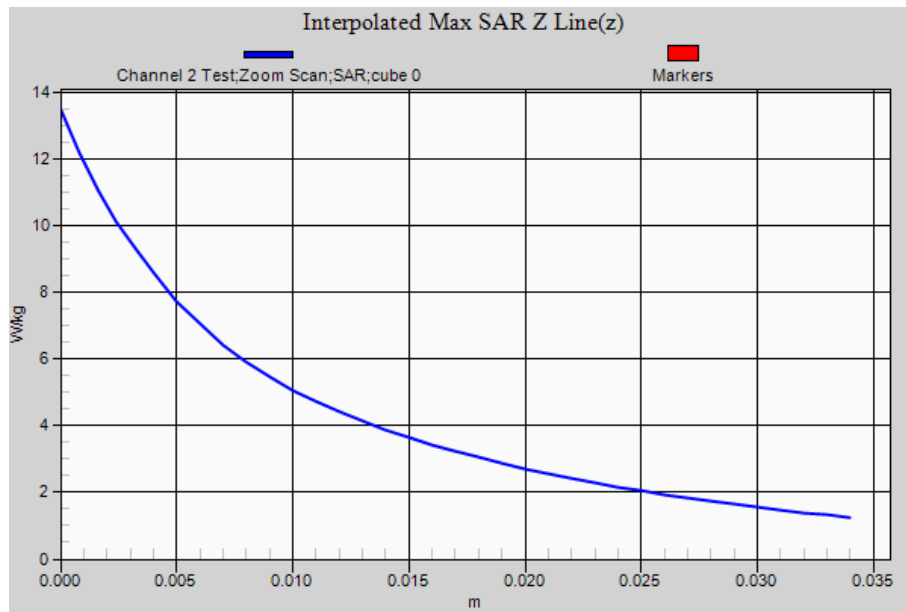
DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Leather Case Spring Clip 16 Key 28-03-14/Channel 2 Test/Area Scan (81x221x1): Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 8.580 W/kg**Body Leather Case Spring Clip 16 Key 28-03-14/Channel 2 Test/Zoom Scan (26x31x36)/Cube 0:** Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 51.801 V/m; **Power Drift = - 0.16 dB****Averaged SAR: SAR(1g) = 8.340 W/kg; SAR(10g) = 5.470 W/kg**

Maximum value of SAR (interpolated) = 13.500 W/kg



SAR Measurement Plot 66



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Helical FCC.da52:7

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Leather Case Spring Clip 16 Key 28-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 481.0 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=481$ MHz; $\sigma = 0.95$ S/m; $\epsilon_r = 55.0$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

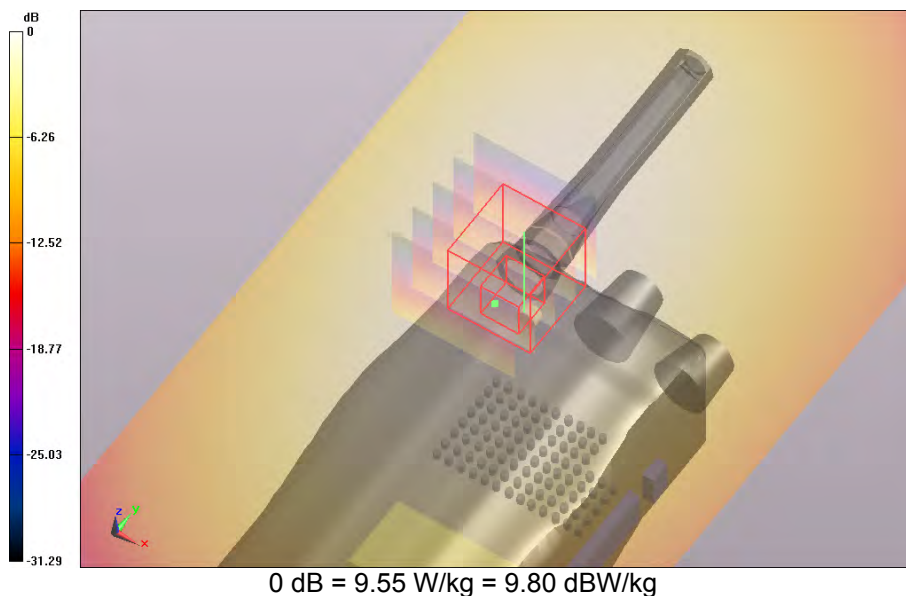
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Leather Case Spring Clip 16 Key 28-03-14/Channel 3 Test/Area Scan (81x221x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 9.550 W/kg**Body Leather Case Spring Clip 16 Key 28-03-14/Channel 3 Test/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 60.728 V/m; **Power Drift = - 0.08 dB****Averaged SAR: SAR(1g) = 9.160 W/kg; SAR(10g) = 5.960 W/kg**

Maximum value of SAR (interpolated) = 14.800 W/kg

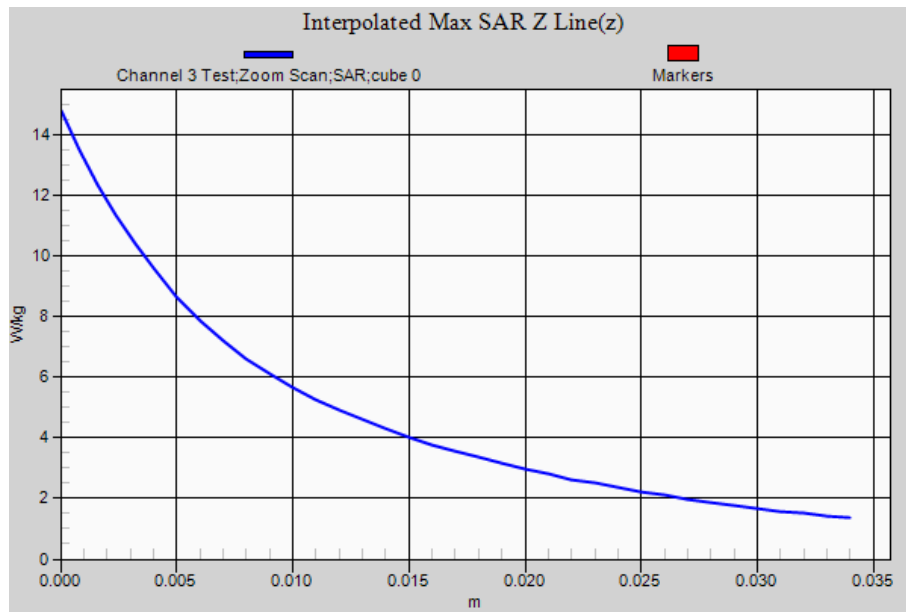


SAR Measurement Plot 67



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Helical FCC.da52:7

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Leather Case Spring Clip 16 Key 28-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 496.5 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=496.5$ MHz; $\sigma = 0.96$ S/m; $\epsilon_r = 54.7$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

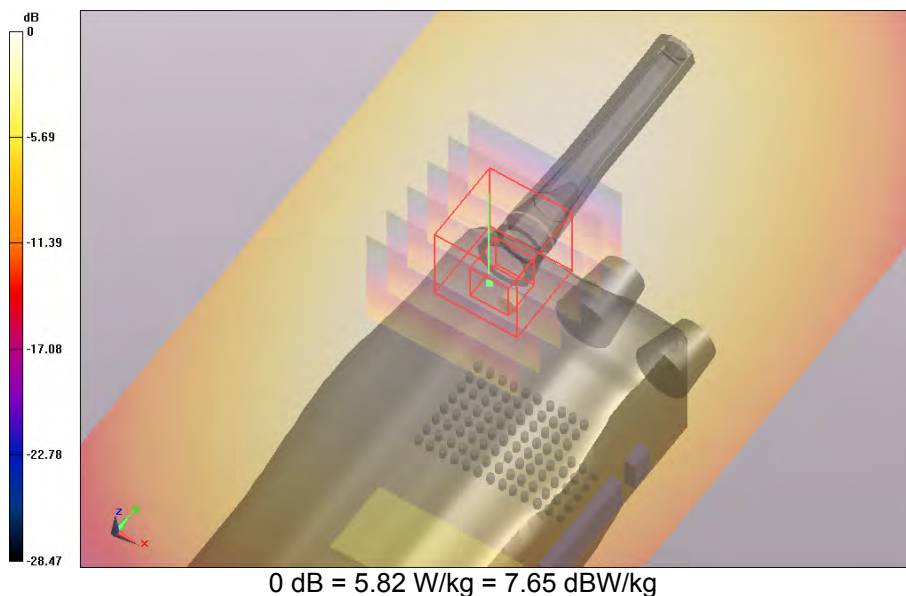
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Leather Case Spring Clip 16 Key 28-03-14/Channel 4 Test/Area Scan (81x221x1): Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 5.820 W/kg**Body Leather Case Spring Clip 16 Key 28-03-14/Channel 4 Test/Zoom Scan (26x26x36)/Cube 0:** Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 48.950 V/m; **Power Drift = - 0.17 dB****Averaged SAR: SAR(1g) = 5.750 W/kg; SAR(10g) = 3.720 W/kg**

Maximum value of SAR (interpolated) = 9.500 W/kg

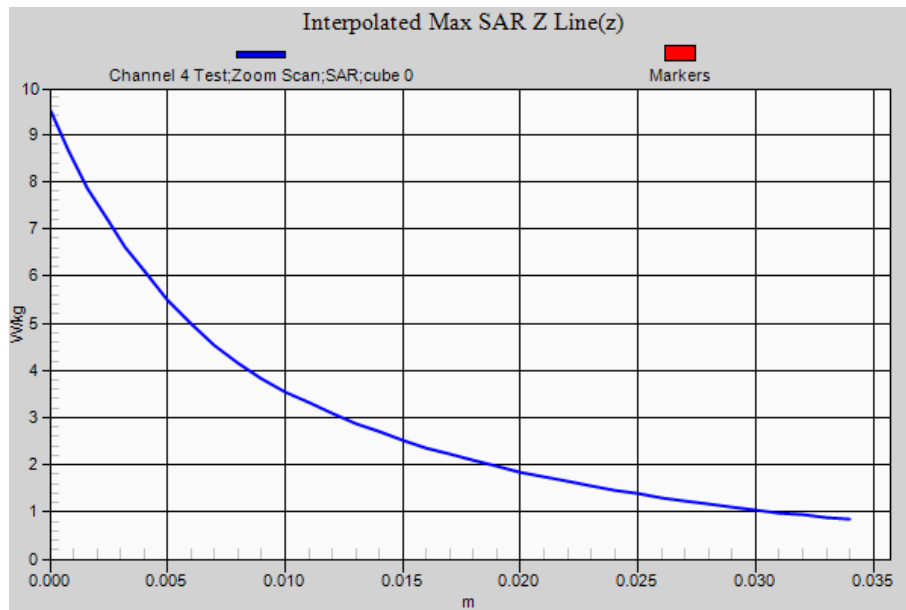


SAR Measurement Plot 68



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Helical FCC.da52:8

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Leather Case D-Stud Spring Clip 16 Key 28-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 481.0 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=481$ MHz; $\sigma = 0.95$ S/m; $\epsilon_r = 55.0$; $\rho = 1000.0\text{g/cm}^3$

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

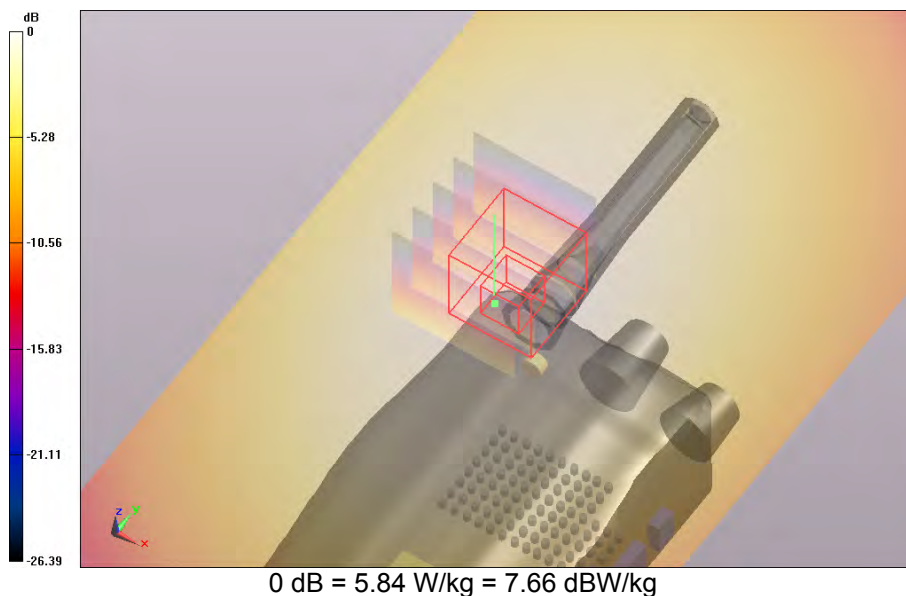
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

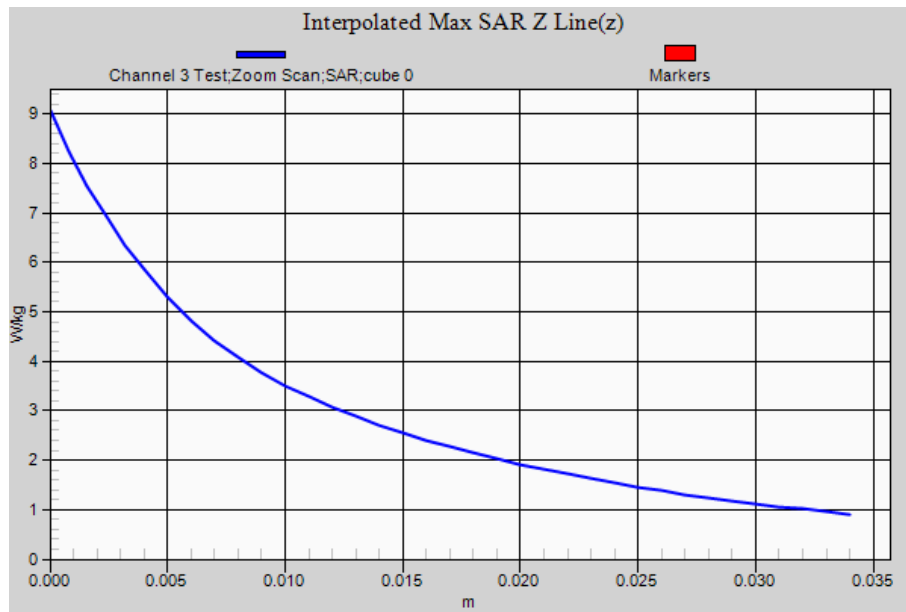
DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Leather Case D-Stud Spring Clip 16 Key 28-03-14/Channel 3 Test/Area Scan (81x221x1):Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 5.840 W/kg**Body Leather Case D-Stud Spring Clip 16 Key 28-03-14/Channel 3 Test/Zoom Scan****(21x21x36)/Cube 0:** Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 45.969 V/m; Power Drift = 0.02 dB**Averaged SAR: SAR(1g) = 5.630 W/kg; SAR(10g) = 3.720 W/kg**

Maximum value of SAR (interpolated) = 9.060 W/kg



SAR Measurement Plot 69



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Helical FCC.da52:9

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Leather Case D-Stud Belt Loop 16 Key 28-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 481.0 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=481$ MHz; $\sigma = 0.95$ S/m; $\epsilon_r = 55.0$; $\rho = 1000.0\text{g/cm}^3$

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

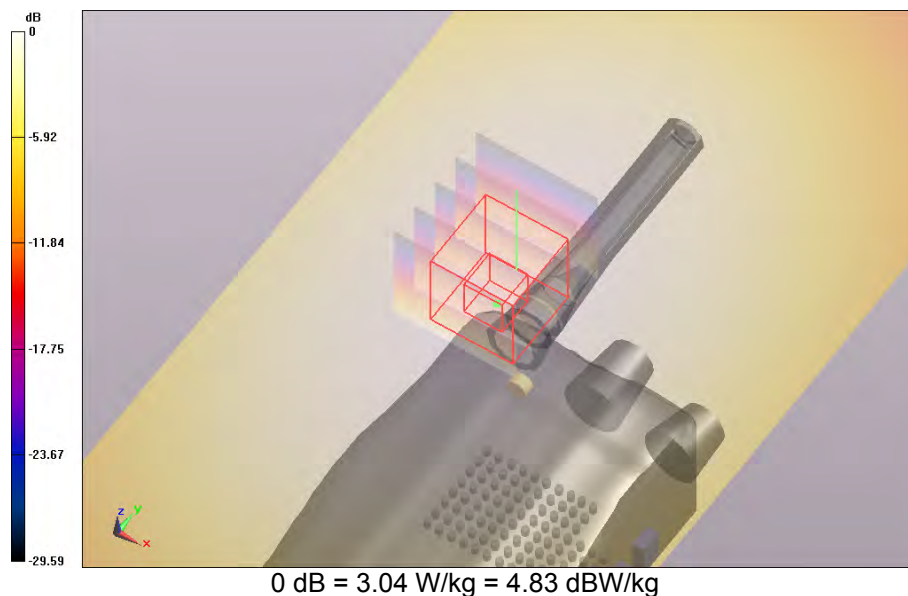
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

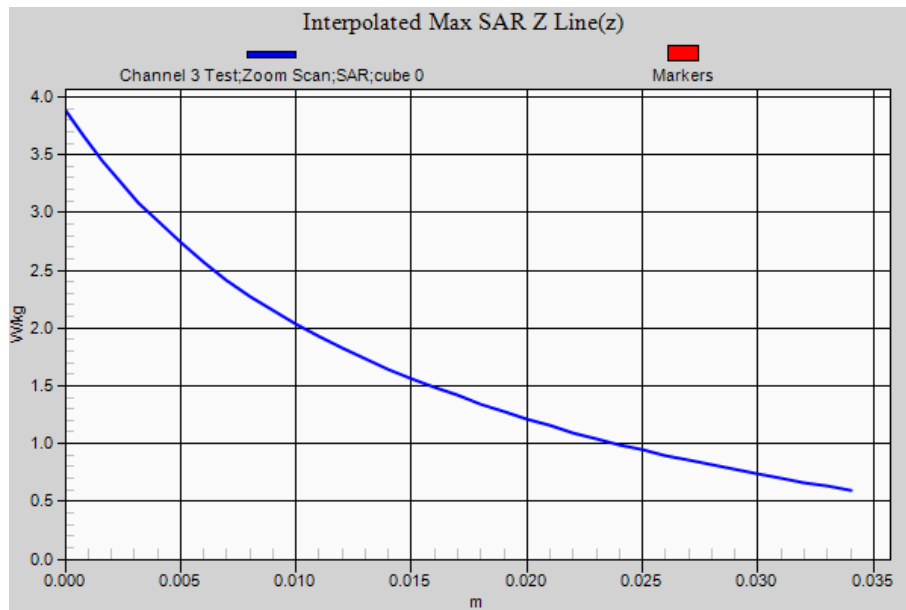
DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Leather Case D-Stud Belt Loop 16 Key 28-03-14/Channel 3 Test/Area Scan (81x221x1):Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 3.040 W/kg**Body Leather Case D-Stud Belt Loop 16 Key 28-03-14/Channel 3 Test/Zoom Scan (21x21x36)/Cube**0: Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 34.412 V/m; **Power Drift = -0.00 dB****Averaged SAR: SAR(1g) = 2.910 W/kg; SAR(10g) = 2.160 W/kg**

Maximum value of SAR (interpolated) = 3.880 W/kg



SAR Measurement Plot 70



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Helical FCC.da52:10

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Leather Case Belt Loop 16 Key 28-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 481.0 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=481$ MHz; $\sigma = 0.95$ S/m; $\epsilon_r = 55.0$; $\rho = 1000.0\text{g/cm}^3$
 Phantom section: Flat Section

DASY Configuration:

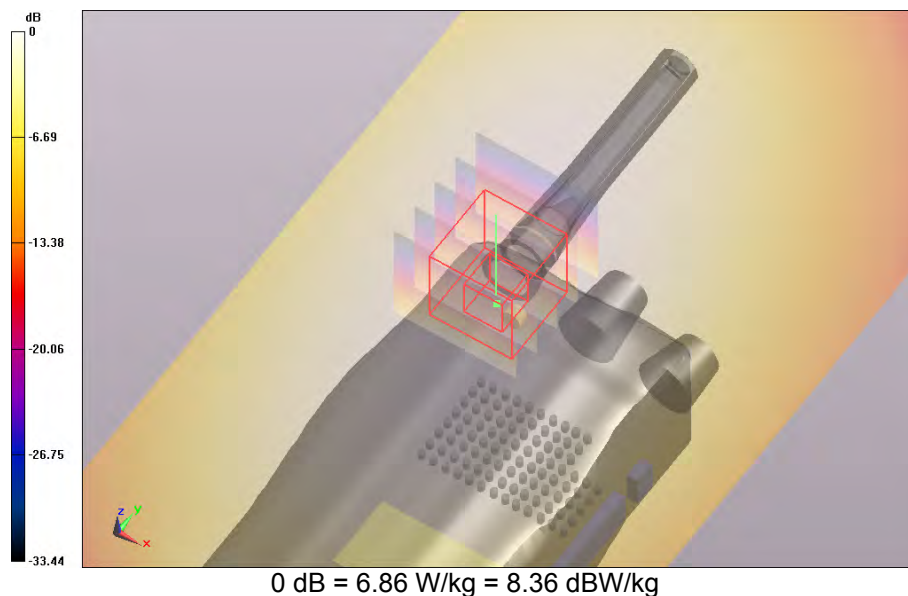
Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Leather Case Belt Loop 16 Key 28-03-14/Channel 3 Test/Area Scan (81x221x1): Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 6.860 W/kg

Body Leather Case Belt Loop 16 Key 28-03-14/Channel 3 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 60.291 V/m; **Power Drift = 0.03 dB**

Averaged SAR: SAR(1g) = 6.680 W/kg; SAR(10g) = 4.850 W/kg

Maximum value of SAR (interpolated) = 9.060 W/kg

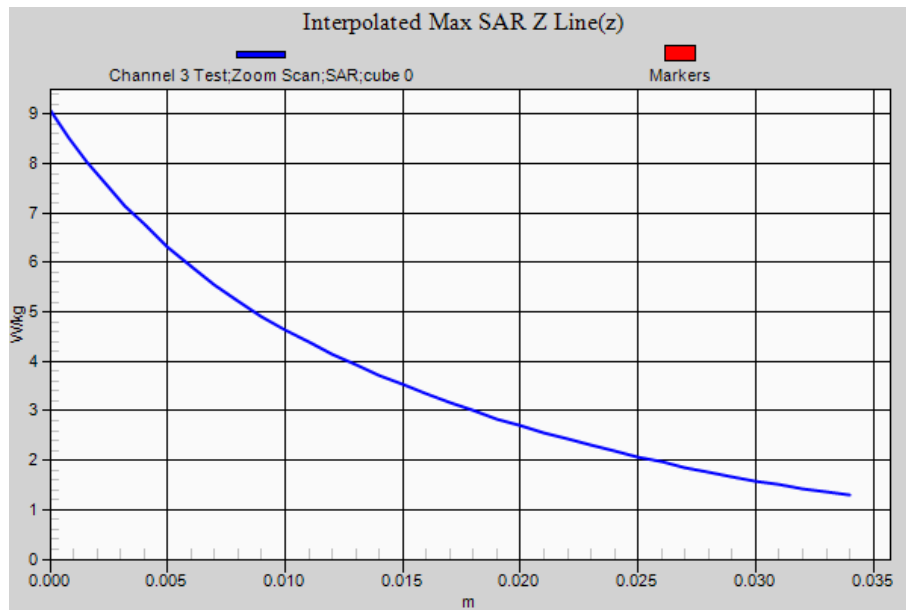


SAR Measurement Plot 71



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Helical FCC.da52:11

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Nylon Case Belt Loop Extended Battery 16 Key 31-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 450.1 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=450$ MHz; $\sigma = 0.93$ S/m; $\epsilon_r = 55.9$; $\rho = 1000.0\text{g/cm}^3$

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

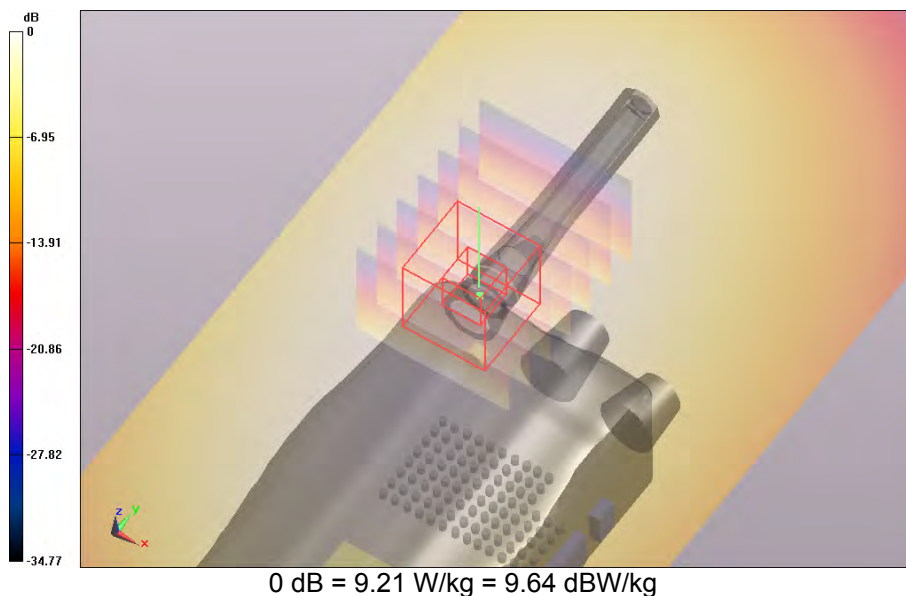
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

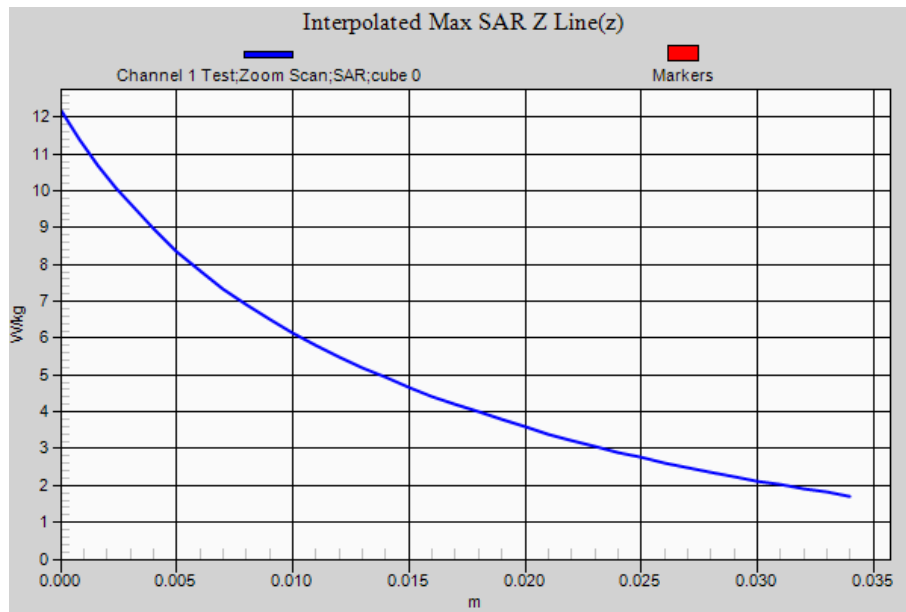
DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Nylon Case Belt Loop Extended Battery 16 Key 31-03-14/Channel 1 Test/Area Scan (81x221x1):Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 9.210 W/kg**Body Nylon Case Belt Loop Extended Battery 16 Key 31-03-14/Channel 1 Test/Zoom Scan****(26x31x36)/Cube 0:** Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 71.952 V/m; **Power Drift = -0.07 dB****Averaged SAR: SAR(1g) = 9.090 W/kg; SAR(10g) = 6.610 W/kg**

Maximum value of SAR (interpolated) = 12.200 W/kg



SAR Measurement Plot 72



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Helical FCC.da52:12

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Nylon Case Belt Loop FAAA Audio Accessory 16 Key 31-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 450.1 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=450$ MHz; $\sigma = 0.93$ S/m; $\epsilon_r = 55.9$; $\rho = 1000.0\text{g/cm}^3$

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

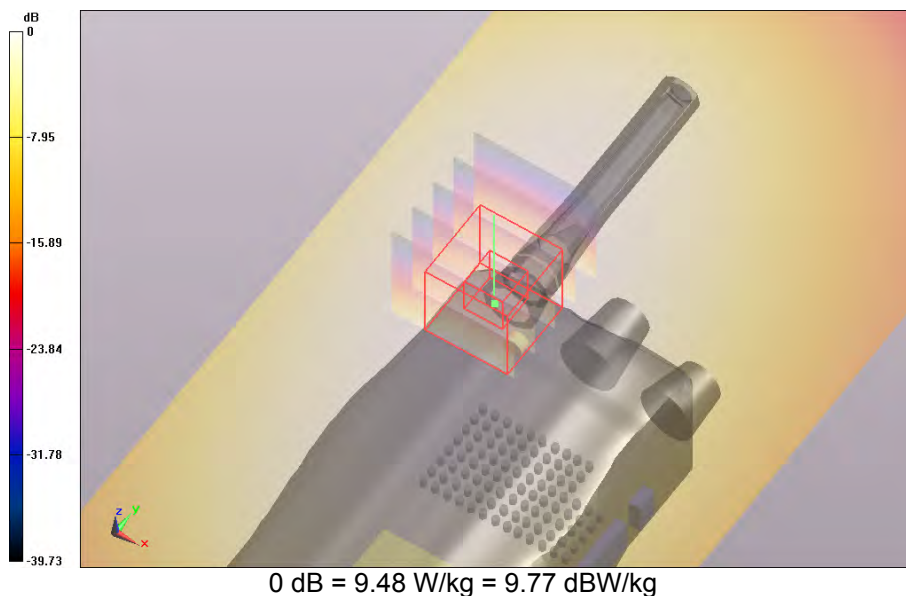
DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Nylon Case Belt Loop FAAA Audio Accessory 16 Key 31-03-14/Channel 1 Test/Area Scan**(81x221x1):** Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 9.480 W/kg**Body Nylon Case Belt Loop FAAA Audio Accessory 16 Key 31-03-14/Channel 1 Test/Zoom Scan****(21x21x36)/Cube 0:** Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 66.532

V/m; Power Drift = -0.14 dB

Averaged SAR: SAR(1g) = 9.410 W/kg; SAR(10g) = 6.770 W/kg

Maximum value of SAR (interpolated) = 12.800 W/kg

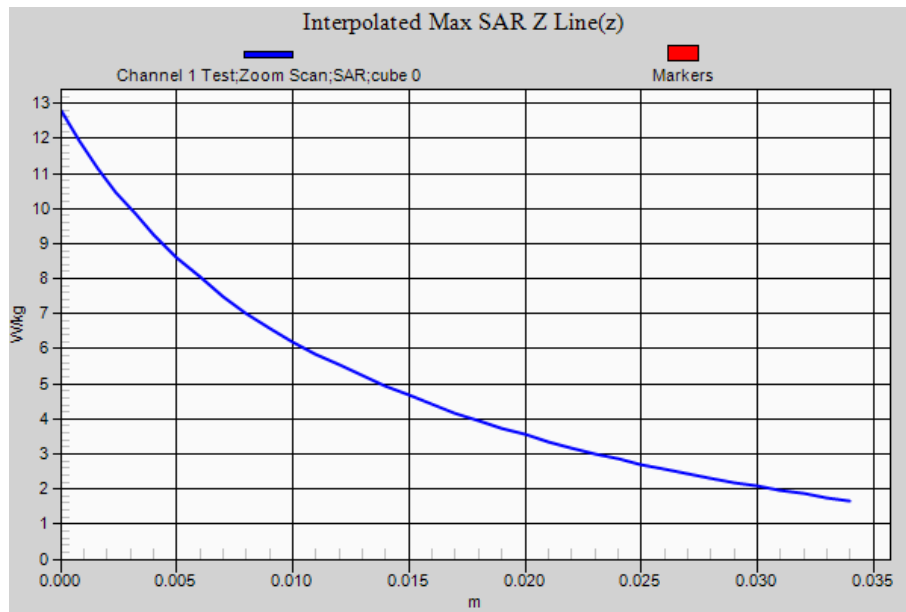


SAR Measurement Plot 73



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Helical FCC.da52:13

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Nylon Case Belt Loop FEAA Audio Accessory 16 Key 31-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 450.1 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=450$ MHz; $\sigma = 0.93$ S/m; $\epsilon_r = 55.9$; $\rho = 1000.0\text{g/cm}^3$

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

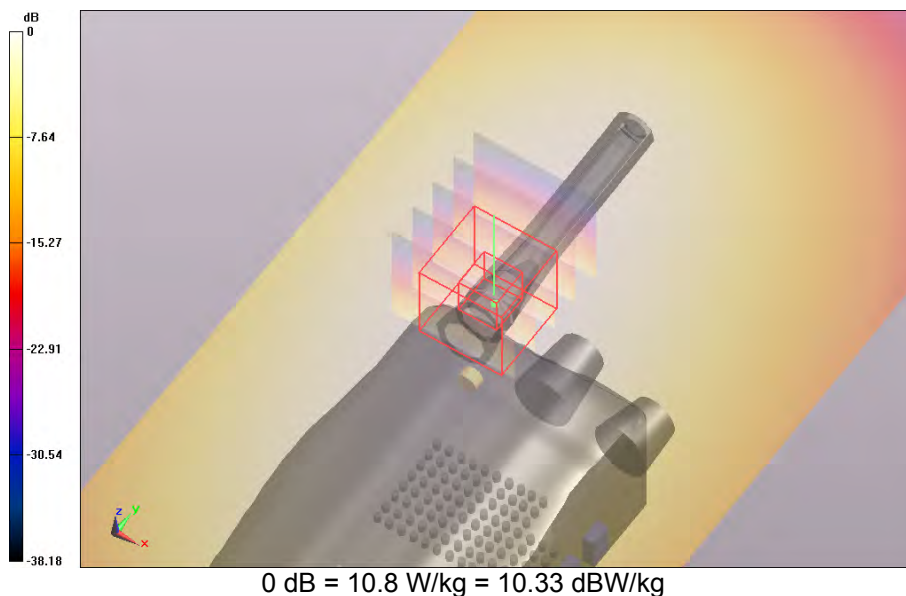
DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Nylon Case Belt Loop FEAA Audio Accessory 16 Key 31-03-14/Channel 1 Test/Area Scan**(81x221x1):** Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 10.800 W/kg**Body Nylon Case Belt Loop FEAA Audio Accessory 16 Key 31-03-14/Channel 1 Test/Zoom Scan****(21x21x36)/Cube 0:** Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 74.635

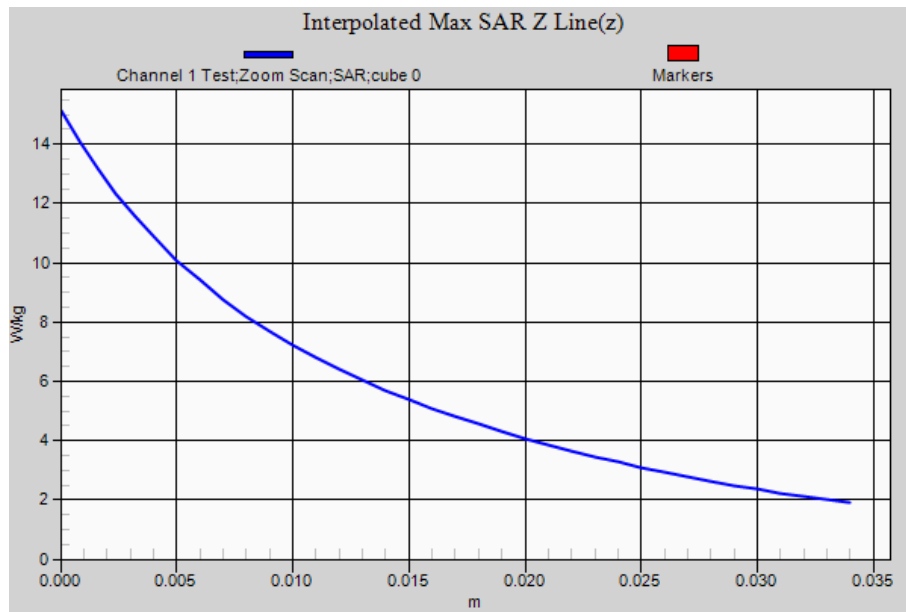
V/m; Power Drift = -0.15 dB

Averaged SAR: SAR(1g) = 11.000 W/kg; SAR(10g) = 7.780 W/kg

Maximum value of SAR (interpolated) = 15.100 W/kg



SAR Measurement Plot 74



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Helical FCC.da52:14

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Nylon Case Belt Loop 4 Key 31-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 450.1 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=450$ MHz; $\sigma = 0.93$ S/m; $\epsilon_r = 55.9$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

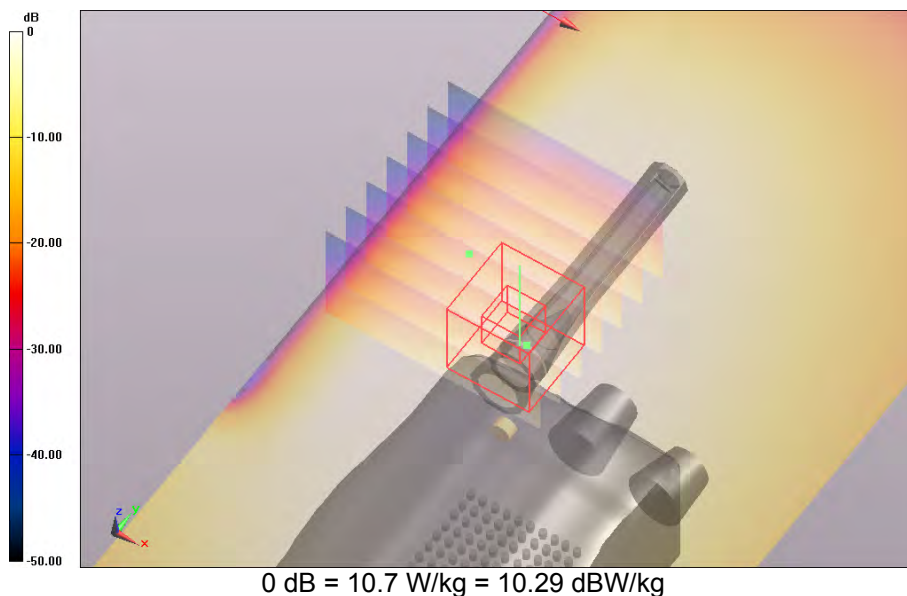
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Nylon Case Belt Loop 4 Key 31-03-14/Channel 1 Test/Area Scan (81x221x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 10.700 W/kg**Body Nylon Case Belt Loop 4 Key 31-03-14/Channel 1 Test/Zoom Scan (36x31x36)/Cube 0:**Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 77.617 V/m; **Power Drift = 0.03 dB****Averaged SAR: SAR(1g) = 10.300 W/kg; SAR(10g) = 7.250 W/kg**

Maximum value of SAR (interpolated) = 14.300 W/kg

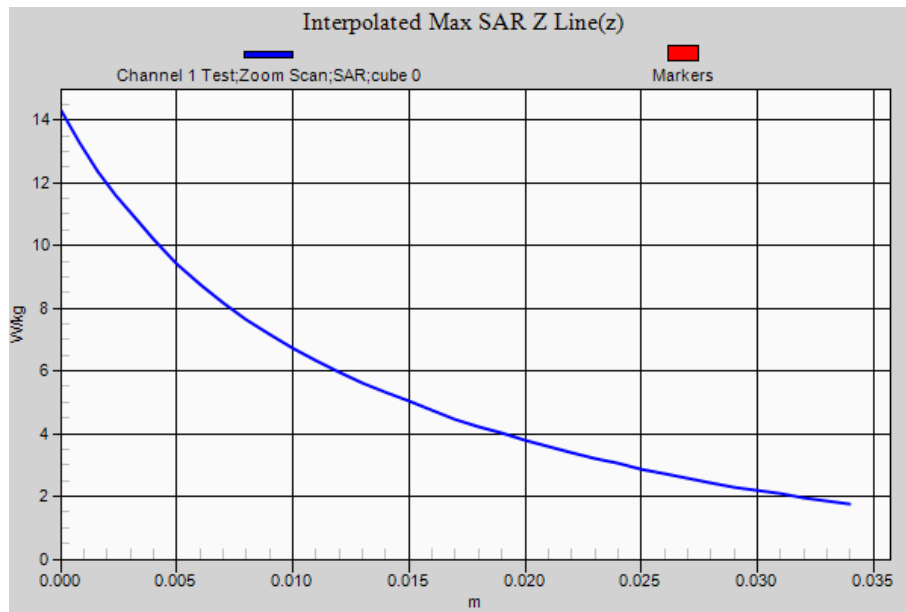


SAR Measurement Plot 75



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Helical FCC.da52:15

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Body Nylon Case Belt Loop 16-key Variability 31-03-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 450.1 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=450$ MHz; $\sigma = 0.93$ S/m; $\epsilon_r = 55.9$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;

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

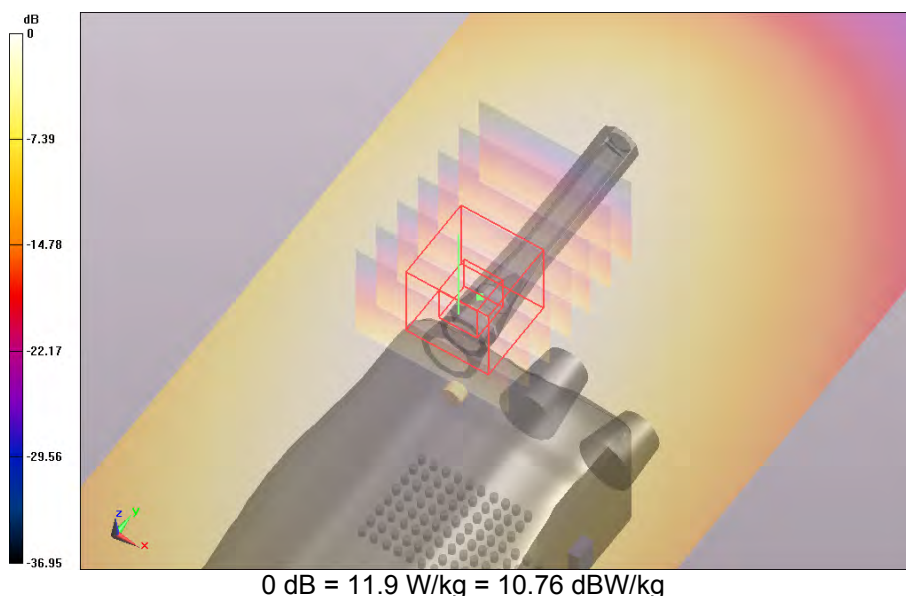
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

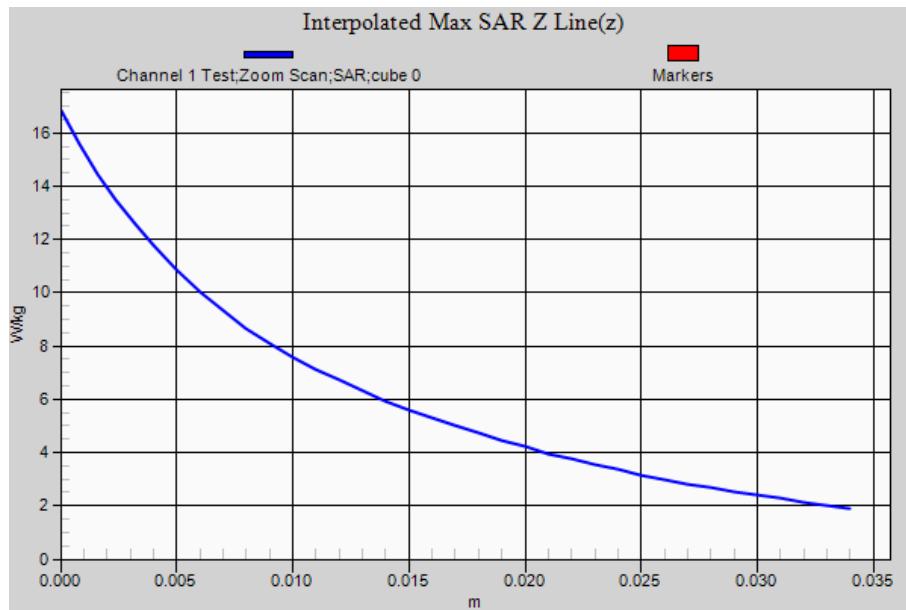
DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Nylon Case Belt Loop 16-key Variability 31-03-14/Channel 1 Test/Area Scan (81x221x1):Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 11.900 W/kg**Body Nylon Case Belt Loop 16-key Variability 31-03-14/Channel 1 Test/Zoom Scan****(26x31x36)/Cube 0:** Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 79.362 V/m; **Power Drift = -0.08 dB****Averaged SAR: SAR(1g) = 11.800 W/kg; SAR(10g) = 8.200 W/kg**

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



SAR Measurement Plot 76



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Helical FCC.da52:16

DUT Name: Dipole 450 MHz, Type: D450V3, Serial: 1074**Configuration: System Check 27-03-14**

Communication System: 0 - CW 450 MHz; Communication System Band: 450 MHz;; Frequency: 450.0 MHz, Communication System PAR: 0.00 dB; PMF: 1.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=450$ MHz; $\sigma = 0.90$ S/m; $\epsilon_r = 55.6$; $\rho = 1000.0\text{g/cm}^3$
 Phantom section: Flat Section

DASY Configuration:

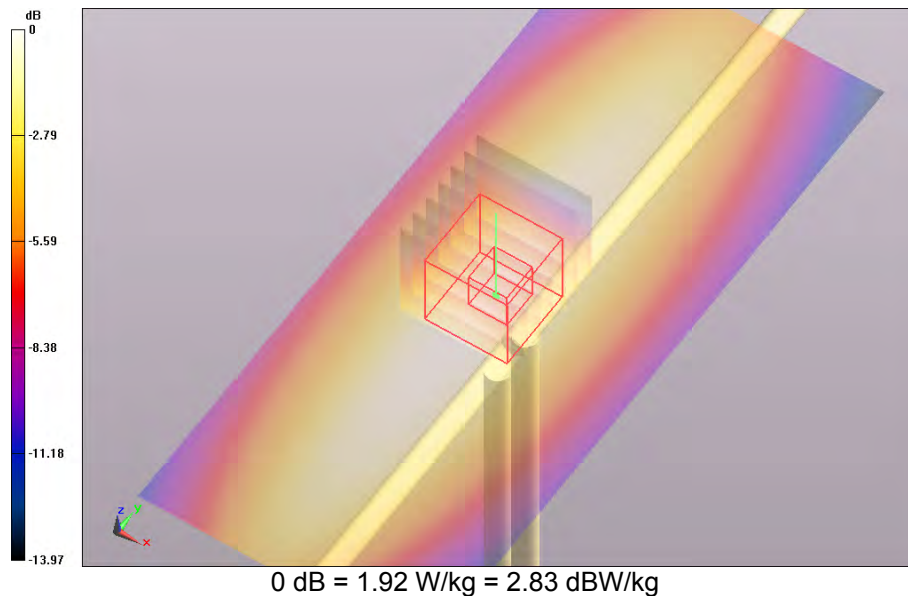
Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection)
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

System Check 27-03-14/Channel 1Test/Area Scan (51x121x1): Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm;
 Maximum value of SAR (interpolated) = 1.920 W/kg

System Check 27-03-14/Channel 1Test/Zoom Scan (31x31x36)/Cube 0: Interpolated grid: $dx=1.0$ mm, $dy=1.0$ mm, $dz=1.0$ mm; Reference Value = 46.992 V/m; **Power Drift = 0.20 dB**

Averaged SAR: SAR(1g) = 1.850 W/kg; SAR(10g) = 1.170 W/kg

Maximum value of SAR (interpolated) = 3.210 W/kg

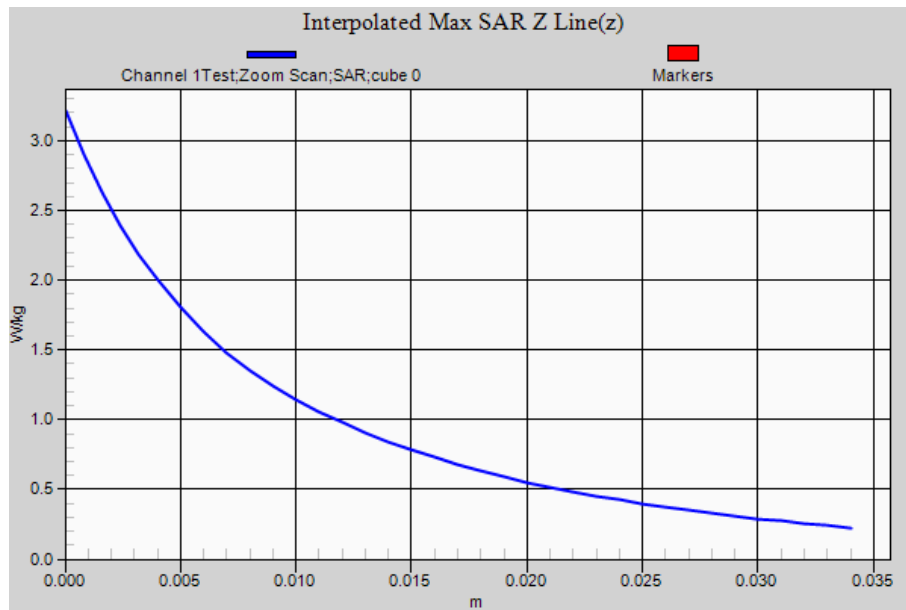


SAR Measurement Plot 77



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Helical FCC.da52:17

DUT Name: Dipole 450 MHz, Type: D450V3, Serial: 1074**Configuration: System Check 28-03-14**

Communication System: 0 - CW 450 MHz; Communication System Band: 450 MHz; Frequency: 450.0 MHz; Communication System PAR: 0.00 dB; PMF: 1.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=450$ MHz; $\sigma = 0.92$ S/m; $\epsilon_r = 55.4$; $\rho = 1000.0$ g/cm³
 Phantom section: Flat Section

DASY Configuration:

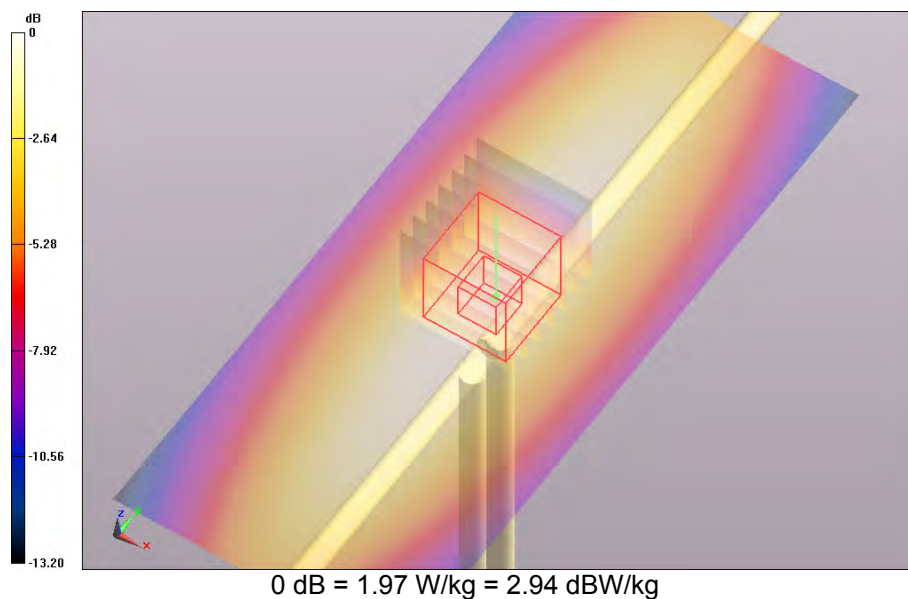
Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection)
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101
 DASY52 52.8(1222); SEMCAD X Version 14.6.10 (7331)

System Check 28-03-14/Channel 1Test/Area Scan (51x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm;
 Maximum value of SAR (interpolated) = 1.970 W/kg

System Check 28-03-14/Channel 1Test/Zoom Scan (31x31x36)/Cube 0: Interpolated grid: dx=1.0 mm, dy=1.0 mm, dz=1.0 mm; Reference Value = 48.224 V/m; **Power Drift = -0.01 dB**

Averaged SAR: SAR(1g) = 1.920 W/kg; SAR(10g) = 1.210 W/kg

Maximum value of SAR (interpolated) = 3.310 W/kg

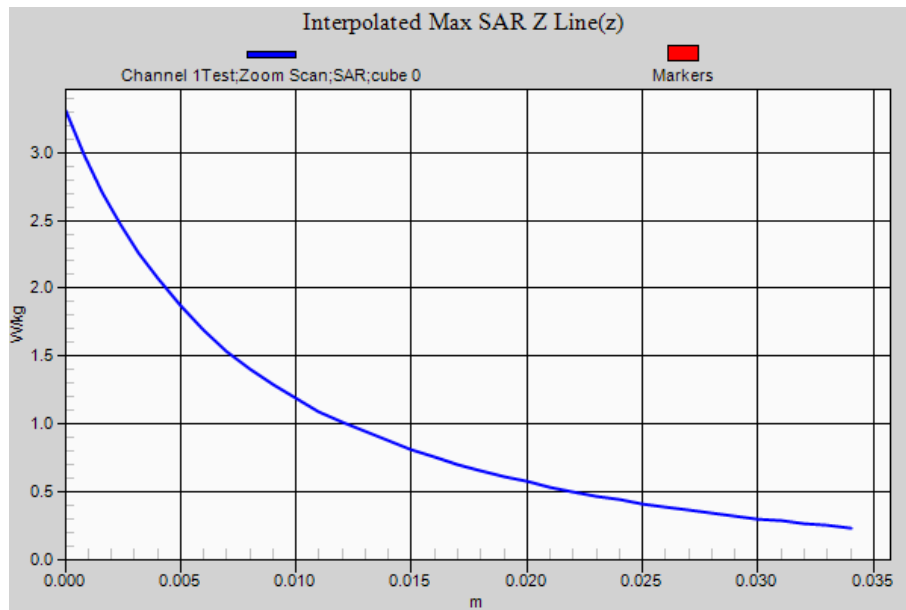


SAR Measurement Plot 78



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Test Lab: EMCTech

Test File: M140227 450 MHz Body Worn Antenna Helical FCC.da52:18

DUT Name: Dipole 450 MHz, Type: D450V3, Serial: 1074**Configuration: System Check 31-03-14**

Communication System: 0 - CW 450 MHz; Communication System Band: 450 MHz; Frequency: 450.0 MHz; Communication System PAR: 0.00 dB; PMF: 1.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=450$ MHz; $\sigma = 0.93$ S/m; $\epsilon_r = 55.9$; $\rho = 1000.0$ g/cm³
 Phantom section: Flat Section

DASY Configuration:

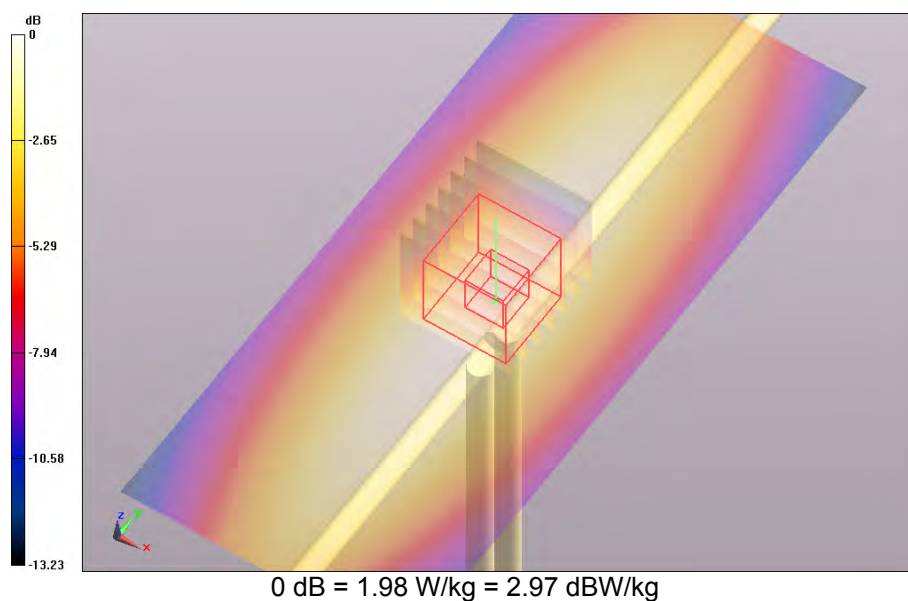
Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection)
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101
 DASY52 52.8(1222); SEMCAD X Version 14.6.10 (7331)

System Check 31-03-14/Channel 1Test/Area Scan (51x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm;
 Maximum value of SAR (interpolated) = 1.980 W/kg

System Check 31-03-14/Channel 1Test/Zoom Scan (31x31x36)/Cube 0: Interpolated grid: dx=1.0 mm, dy=1.0 mm, dz=1.0 mm; Reference Value = 48.186 V/m; **Power Drift = -0.04 dB**

Averaged SAR: SAR(1g) = 1.900 W/kg; SAR(10g) = 1.200 W/kg

Maximum value of SAR (interpolated) = 3.270 W/kg

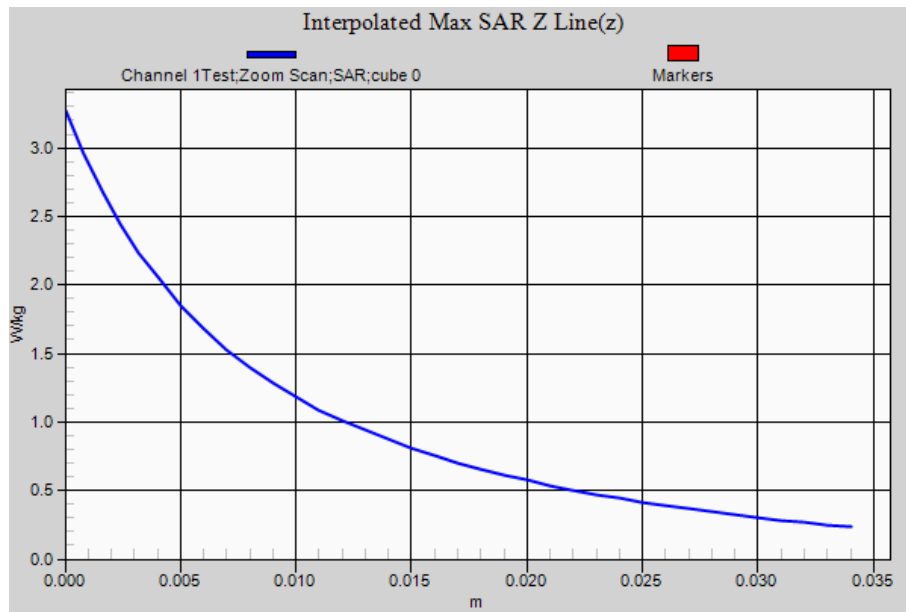


SAR Measurement Plot 79



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Test Lab: EMCTech

Test File: M140227 450 MHz Face Frontal Antenna Whip.da52:0

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Head Face Frontal 16 Key 01-04-14**

Communication System: 0 - CW (0); Communication System Band: Tait 485 MHz; Frequency: 450.0 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=450$ MHz; $\sigma = 0.84$ S/m; $\epsilon_r = 42.8$; $\rho = 1.0\text{g/cm}^3$
 Phantom section: Flat Section

DASY Configuration:

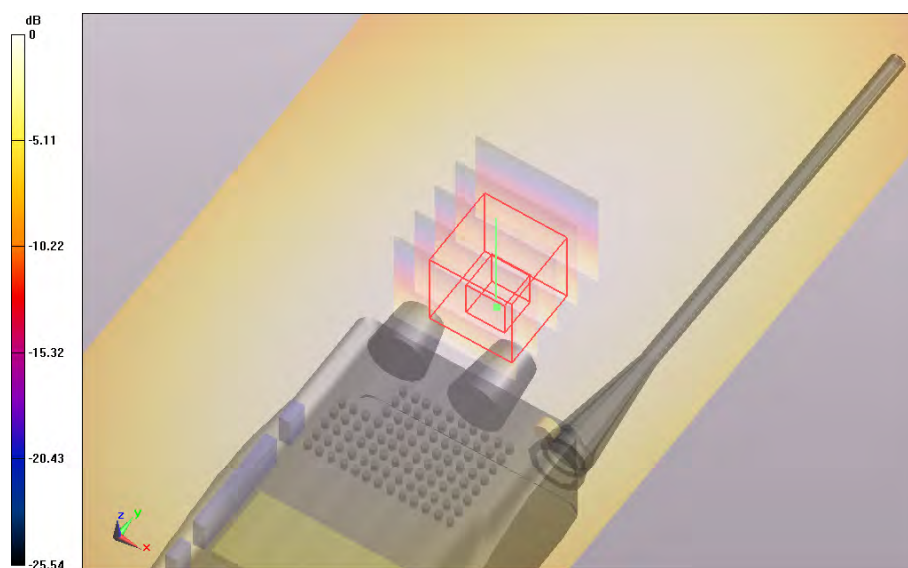
Probe: ET3DV6 - SN1380; ConvF: (7.31,7.31,7.31); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection)
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101
 DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Head Face Frontal 16 Key 01-04-14/Channel 1 Test/Area Scan (81x221x1): Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 5.750 W/kg

Head Face Frontal 16 Key 01-04-14/Channel 1 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 55.230 V/m; **Power Drift = -0.08 dB**

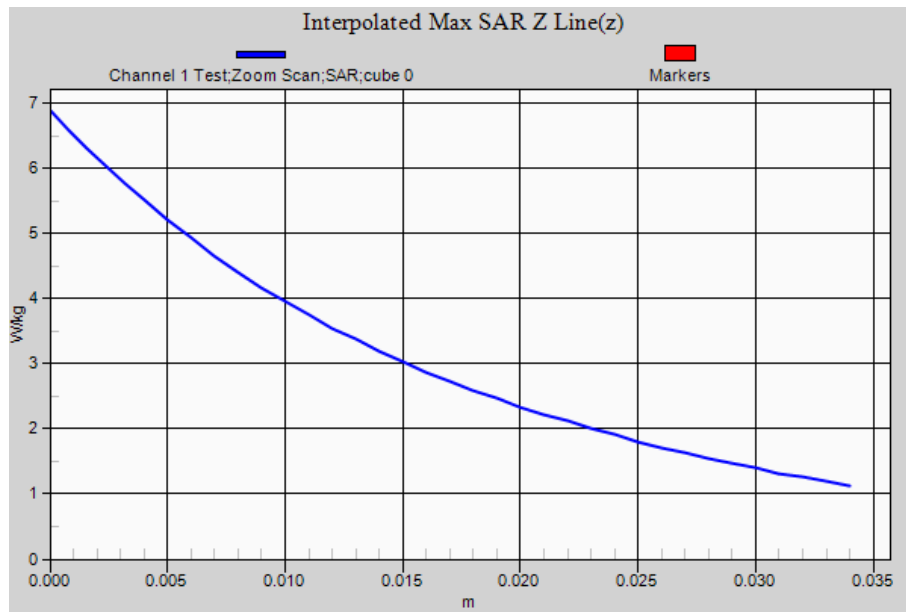
Averaged SAR: SAR(1g) = 5.660 W/kg; SAR(10g) = 4.250 W/kg

Maximum value of SAR (interpolated) = 6.880 W/kg



0 dB = 5.75 W/kg = 7.60 dBW/kg

SAR Measurement Plot 80



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Test Lab: EMCTech

Test File: M140227 450 MHz Face Frontal Antenna Whip.da52:0

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Head Face Frontal 16 Key 01-04-14**

Communication System: 0 - CW (0); Communication System Band: Tait 485 MHz; Frequency: 467.5

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

Medium Parameters used: $f=450$ MHz; $\sigma = 0.86$ S/m; $\epsilon_r = 42.4$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.31,7.31,7.31); Calibrated: 13/12/2013;

Sensor-Surface: 4 mm (Mechanical Surface Detection)

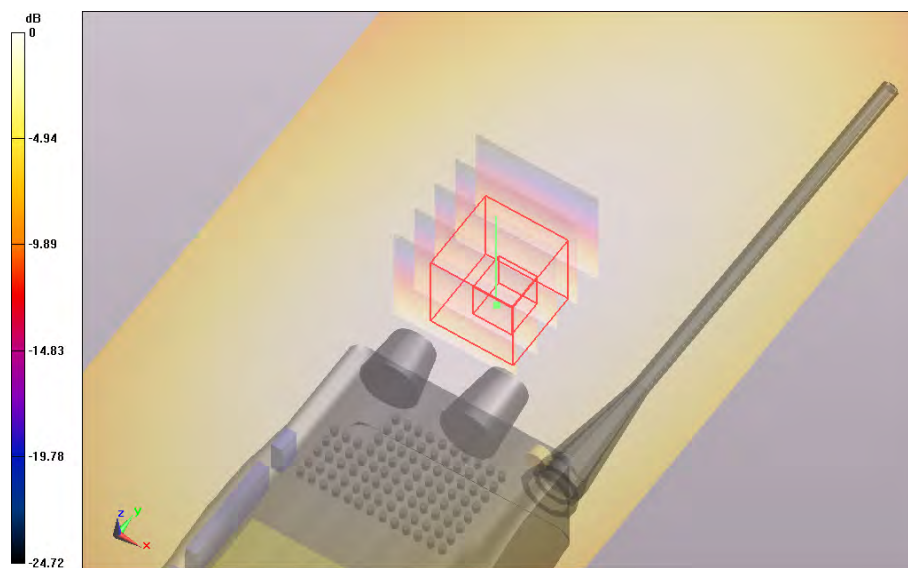
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

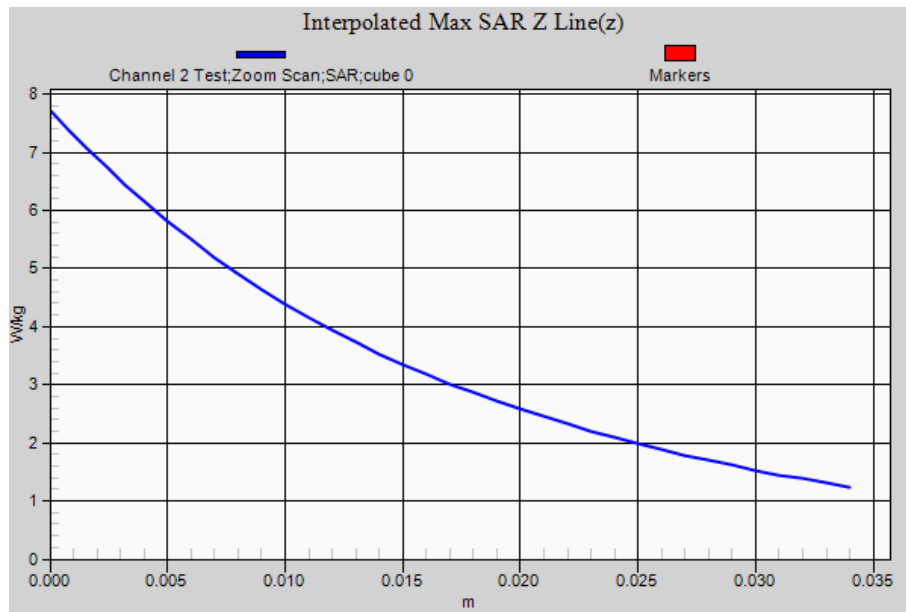
Head Face Frontal 16 Key 01-04-14/Channel 2 Test/Area Scan (81x221x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 6.320 W/kg**Head Face Frontal 16 Key 01-04-14/Channel 2 Test/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 62.051 V/m; **Power Drift = -0.13 dB****Averaged SAR: SAR(1g) = 6.230 W/kg; SAR(10g) = 4.680 W/kg**

Maximum value of SAR (interpolated) = 7.710 W/kg



0 dB = 5.75 W/kg = 7.60 dBW/kg

SAR Measurement Plot 81



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Test Lab: EMCTech

Test File: M140227 450 MHz Face Frontal Antenna Whip.da52:0

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Head Face Frontal 16 Key 01-04-14**

Communication System: 0 - CW (0); Communication System Band: Tait 485 MHz; Frequency: 485.0 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=467.5$ MHz; $\sigma = 0.87$ S/m; $\epsilon_r = 42.0$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.31,7.31,7.31); Calibrated: 13/12/2013;

Sensor-Surface: 4 mm (Mechanical Surface Detection)

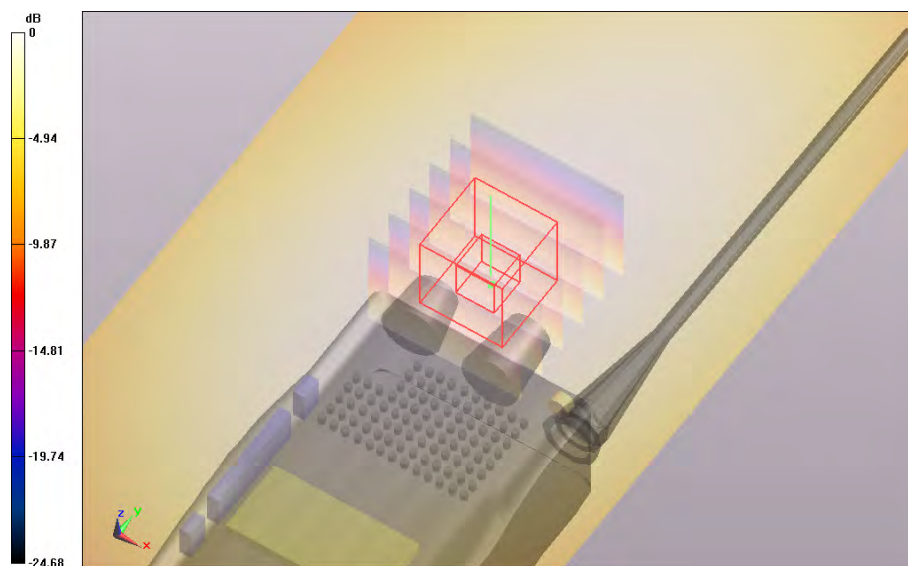
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

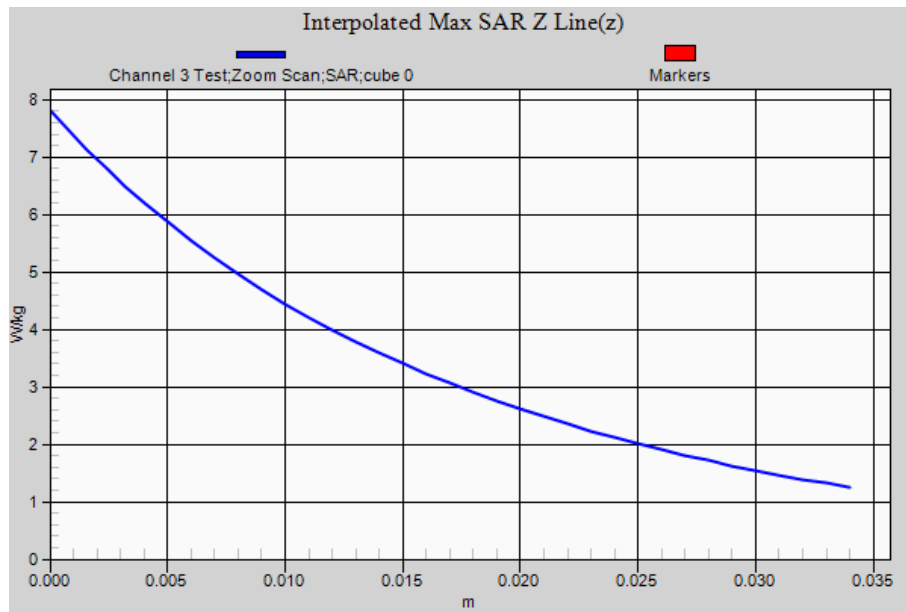
Head Face Frontal 16 Key 01-04-14/Channel 3 Test/Area Scan (81x221x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 6.440 W/kg**Head Face Frontal 16 Key 01-04-14/Channel 3 Test/Zoom Scan (26x26x36)/Cube 0:** Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 59.003 V/m; **Power Drift = -0.12 dB****Averaged SAR: SAR(1g) = 6.220 W/kg; SAR(10g) = 4.680 W/kg**

Maximum value of SAR (interpolated) = 7.800 W/kg



0 dB = 6.32 W/kg = 8.01 dBW/kg

SAR Measurement Plot 82



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Test Lab: EMCTech

Test File: M140227 450 MHz Face Frontal Antenna Whip.da52:0

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Head Face Frontal 16 Key 01-04-14**

Communication System: 0 - CW (0); Communication System Band: Tait 485 MHz; Frequency: 502.5 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=485$ MHz; $\sigma = 0.88$ S/m; $\epsilon_r = 41.6$; $\rho = 1000.0$ g/cm³
 Phantom section: Flat Section

DASY Configuration:

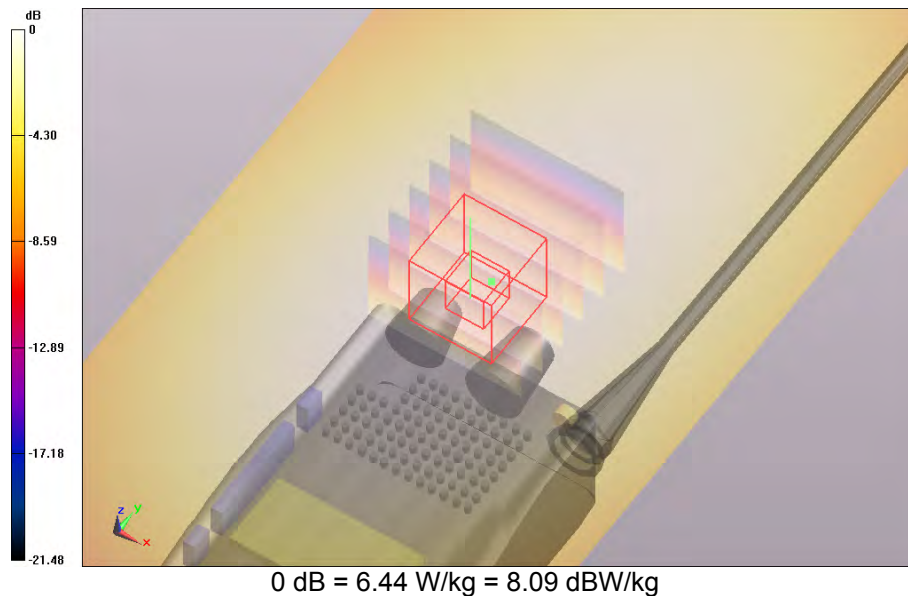
Probe: ET3DV6 - SN1380; ConvF: (7.31,7.31,7.31); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection)
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101
 DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Head Face Frontal 16 Key 01-04-14/Channel 4 Test/Area Scan (81x221x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 3.860 W/kg

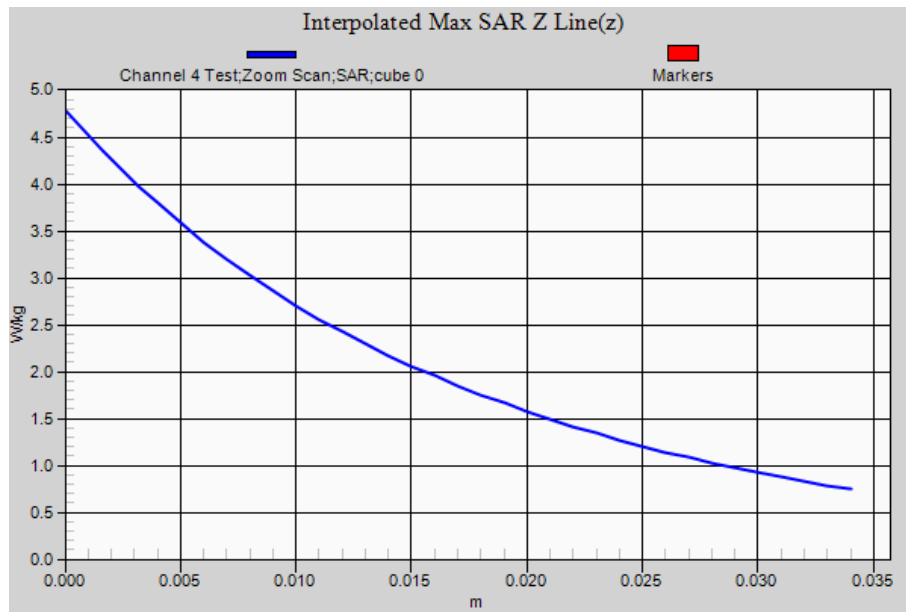
Head Face Frontal 16 Key 01-04-14/Channel 4 Test/Zoom Scan (26x26x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 46.437 V/m; **Power Drift = -0.20 dB**

Averaged SAR: SAR(1g) = 3.740 W/kg; SAR(10g) = 2.810 W/kg

Maximum value of SAR (interpolated) = 4.780 W/kg



SAR Measurement Plot 83



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Test Lab: EMCTech

Test File: M140227 450 MHz Face Frontal Antenna Whip.da52:0

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Head Face Frontal 16 Key 01-04-14**

Communication System: 0 - CW (0); Communication System Band: Tait 481 MHz FCC; Frequency: 511.9 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=502.5$ MHz; $\sigma = 0.89$ S/m; $\epsilon_r = 41.5$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.31,7.31,7.31); Calibrated: 13/12/2013;

Sensor-Surface: 4 mm (Mechanical Surface Detection)

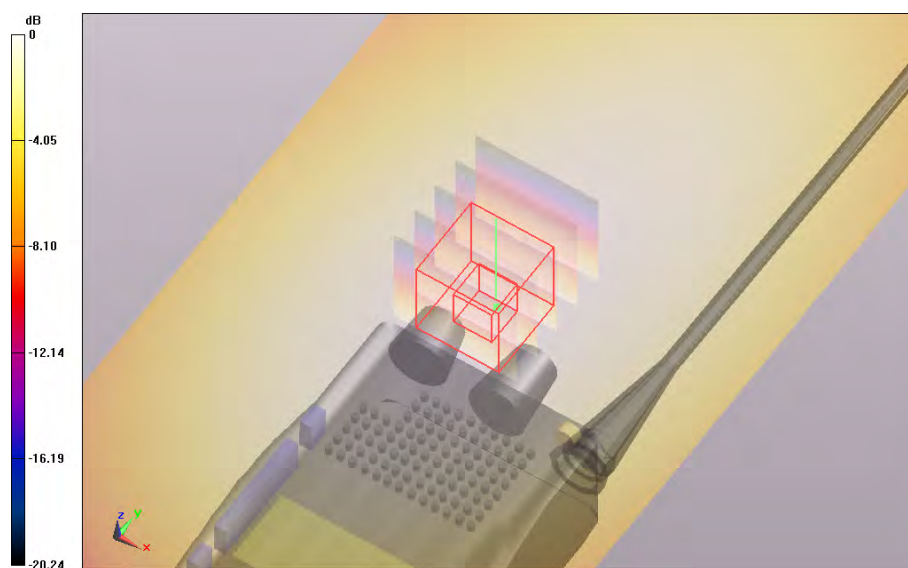
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

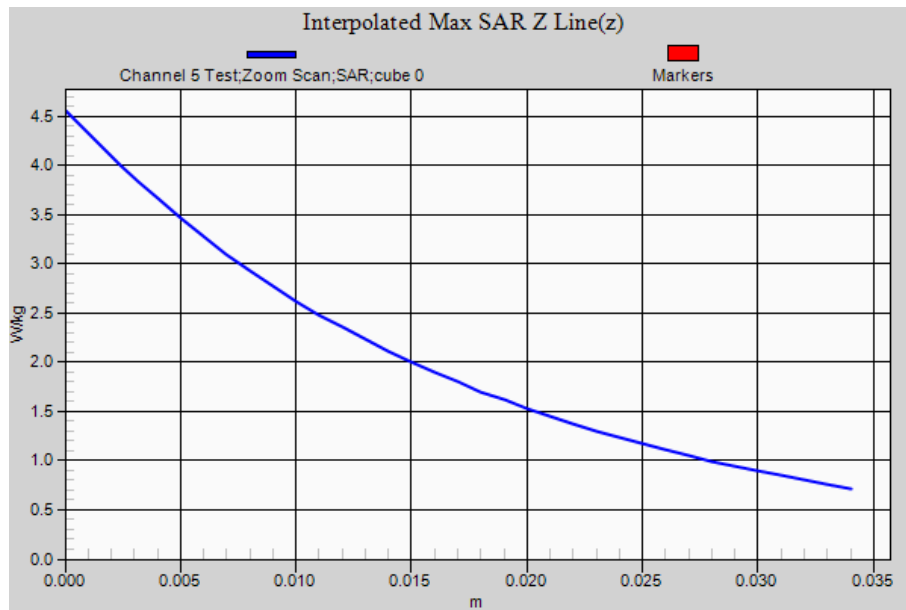
Head Face Frontal 16 Key 01-04-14/Channel 5 Test/Area Scan (81x221x1): Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 3.730 W/kg**Head Face Frontal 16 Key 01-04-14/Channel 5 Test/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 46.959 V/m; **Power Drift = -0.12 dB****Averaged SAR: SAR(1g) = 3.590 W/kg; SAR(10g) = 2.710 W/kg**

Maximum value of SAR (interpolated) = 4.560 W/kg



0 dB = 3.86 W/kg = 5.87 dBW/kg

SAR Measurement Plot 84



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Test Lab: EMCTech

Test File: M140227 450 MHz Face Frontal Antenna Whip.da52:1

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Head Face Frontal 4 Key 01-04-14**

Communication System: 0 - CW (0); Communication System Band: Tait 485 MHz; Frequency: 467.5

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

Medium Parameters used: $f=467.5$ MHz; $\sigma = 0.86$ S/m; $\epsilon_r = 42.4$; $\rho = 1.0\text{g/cm}^3$

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.31,7.31,7.31); Calibrated: 13/12/2013;

Sensor-Surface: 4 mm (Mechanical Surface Detection)

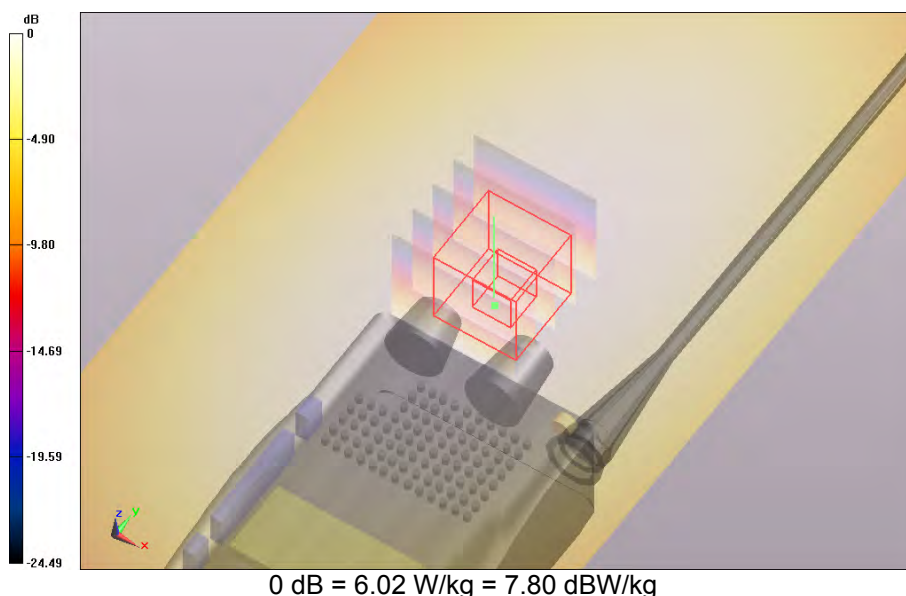
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

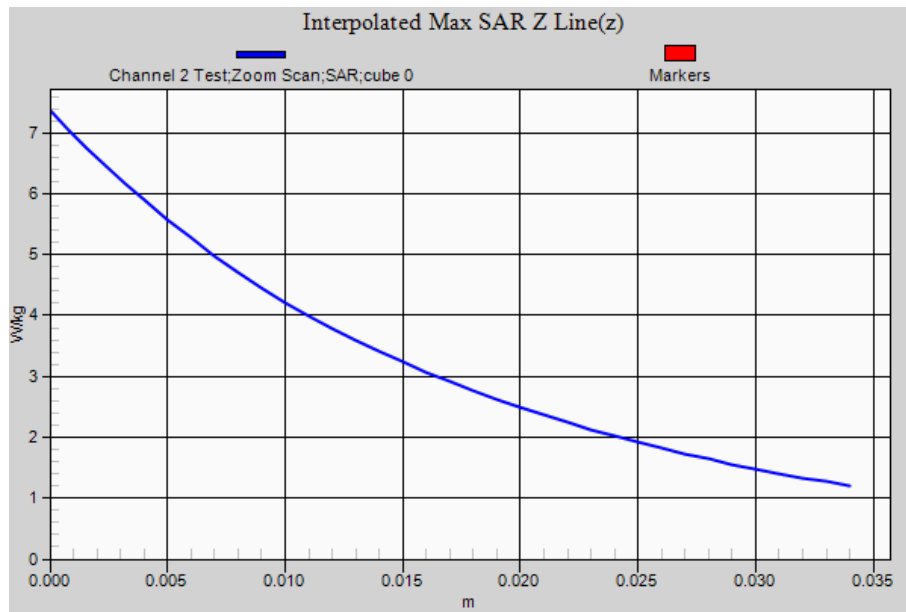
DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Head Face Frontal 4 Key 01-04-14/Channel 2 Test/Area Scan (81x221x1): Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 6.020 W/kg**Head Face Frontal 4 Key 01-04-14/Channel 2 Test/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 56.824 V/m; **Power Drift = -0.19 dB****Averaged SAR: SAR(1g) = 5.960 W/kg; SAR(10g) = 4.480 W/kg**

Maximum value of SAR (interpolated) = 7.360 W/kg



SAR Measurement Plot 85



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Test Lab: EMCTech

Test File: M140227 450 MHz Face Frontal Antenna Whip.da52:2

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Head Face Frontal Low Capacity Battery 16 Key 01-04-14**

Communication System: 0 - CW (0); Communication System Band: Tait 485 MHz; Frequency: 467.5 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=467.5$ MHz; $\sigma = 0.86$ S/m; $\epsilon_r = 42.4$; $\rho = 1.0\text{g/cm}^3$
 Phantom section: Flat Section

DASY Configuration:

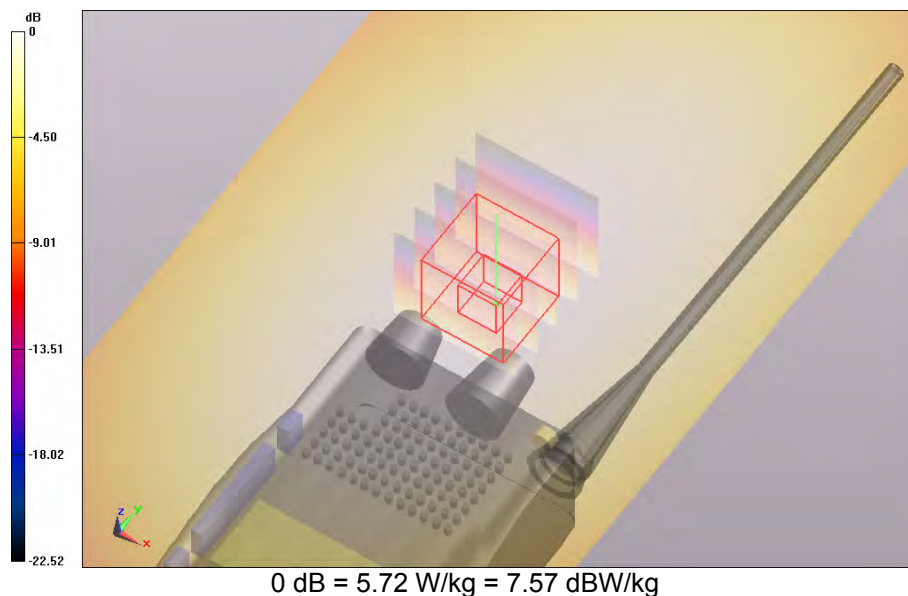
Probe: ET3DV6 - SN1380; ConvF: (7.31,7.31,7.31); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection)
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101
 DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Head Face Frontal Low Capacity Battery 16 Key 01-04-14/Channel 2 Test/Area Scan (81x221x1):Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 5.720 W/kg**Head Face Frontal Low Capacity Battery 16 Key 01-04-14/Channel 2 Test/Zoom Scan**

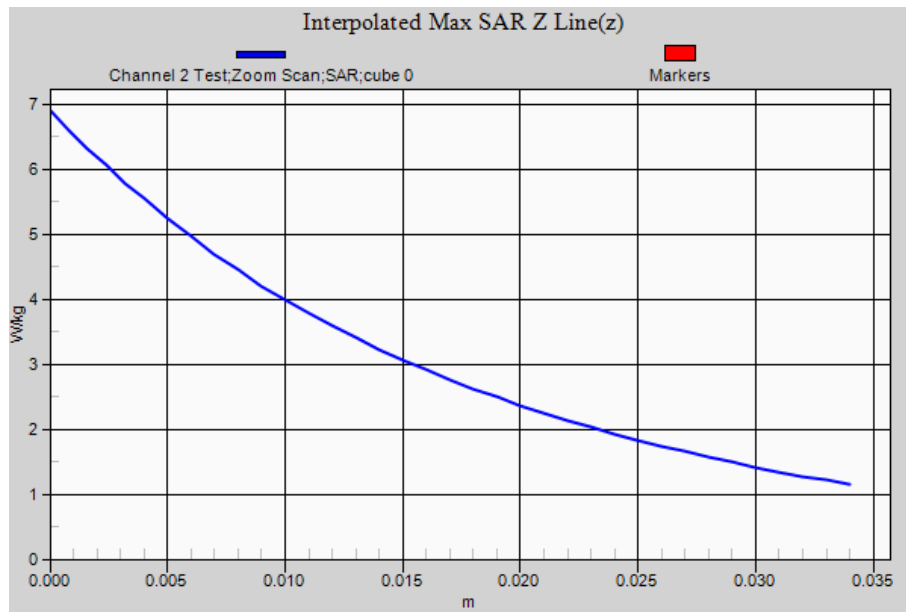
(21x21x36)/Cube 0: Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 58.352 V/m; Power Drift = -0.20 dB

Averaged SAR: SAR(1g) = 5.630 W/kg; SAR(10g) = 4.240 W/kg

Maximum value of SAR (interpolated) = 6.900 W/kg



SAR Measurement Plot 86



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Test Lab: EMCTech

Test File: M140227 450 MHz Face Frontal Antenna Whip.da52:3

DUT Name: Dipole 450 MHz, Type: D450V3, Serial: 1074**Configuration: System Check 01-04-14**

Communication System: 0 - CW 450 MHz; Communication System Band: **450MHz**; Frequency: 450.0 MHz; Communication System PAR: 0.00 dB; PMF: 1.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=450$ MHz; $\sigma = 0.84$ S/m; $\epsilon_r = 42.8$; $\rho = 1.0\text{g/cm}^3$
 Phantom section: Flat Section

DASY Configuration:

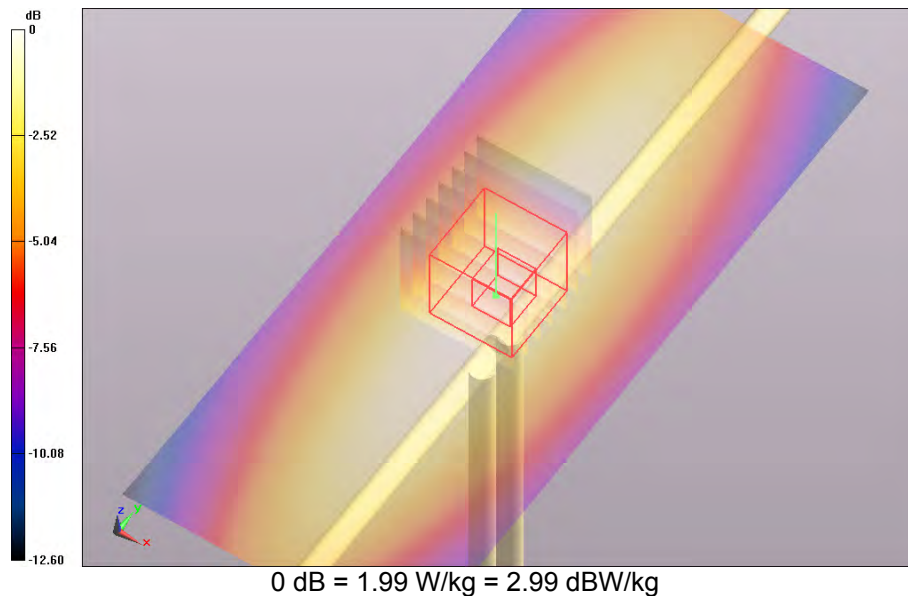
Probe: ET3DV6 - SN1380; ConvF: (7.31,7.31,7.31); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection)
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101
 DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

System Check 01-04-14/Channel 1Test/Area Scan (51x121x1): Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm;
 Maximum value of SAR (interpolated) = 1.990 W/kg

System Check 01-04-14/Channel 1Test/Zoom Scan (31x31x36)/Cube 0: Interpolated grid: $dx=1.0$ mm, $dy=1.0$ mm, $dz=1.0$ mm; Reference Value = 51.395 V/m; **Power Drift = -0.08 dB**

Averaged SAR: SAR(1g) = 1.880 W/kg; SAR(10g) = 1.190 W/kg

Maximum value of SAR (interpolated) = 3.090 W/kg

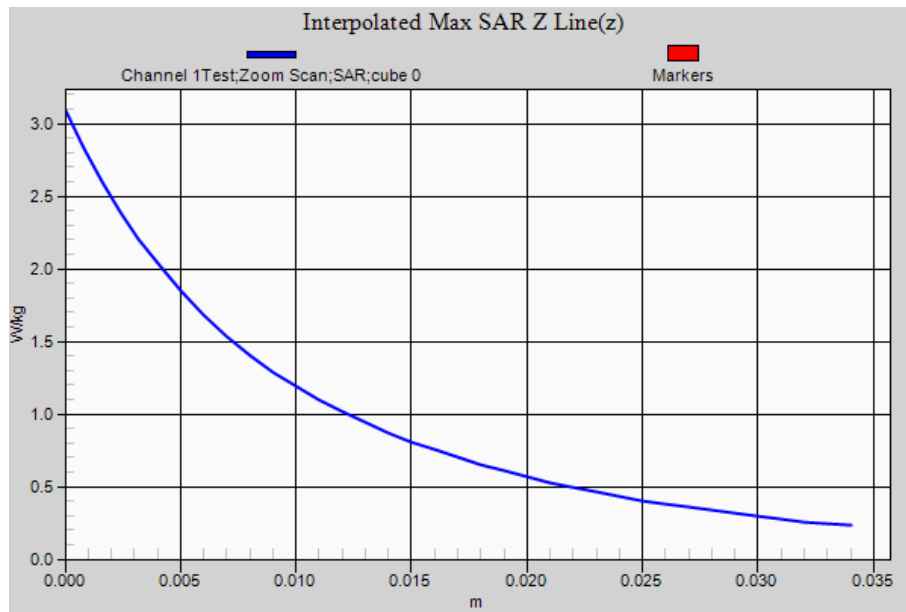


SAR Measurement Plot 87



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Test Lab: EMCTech

Test File: M140227 450 MHz Face Frontal Antenna Helical.da52:0

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Head Face Frontal 16 Key 01-04-14**

Communication System: 0 - CW (0); Communication System Band: Tait 485 MHz; Frequency: 485.0 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=485$ MHz; $\sigma = 0.87$ S/m; $\epsilon_r = 42.0$; $\rho = 1.0\text{g/cm}^3$

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (7.31,7.31,7.31); Calibrated: 13/12/2013;

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

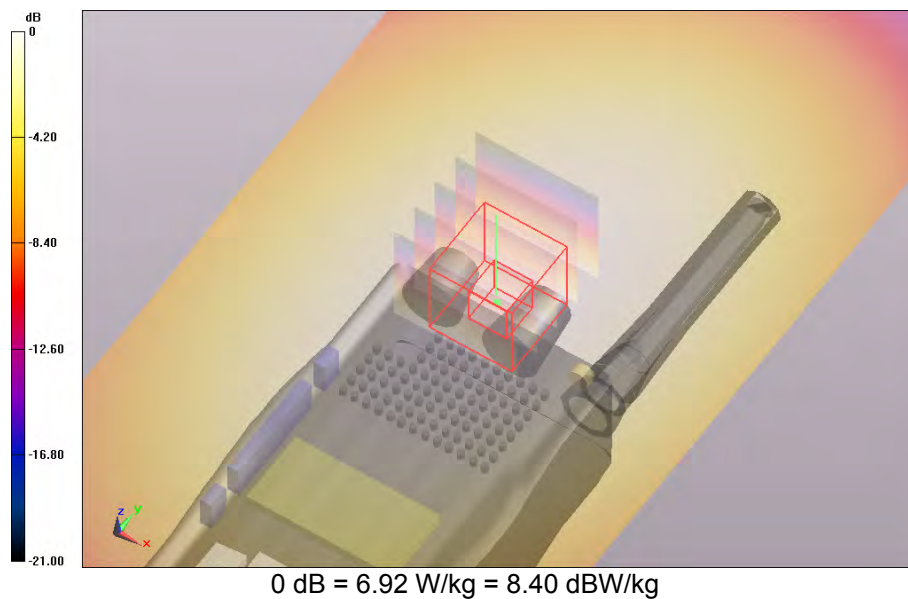
Electronics: DAE3 Sn442; Calibrated: 10/12/2013

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101

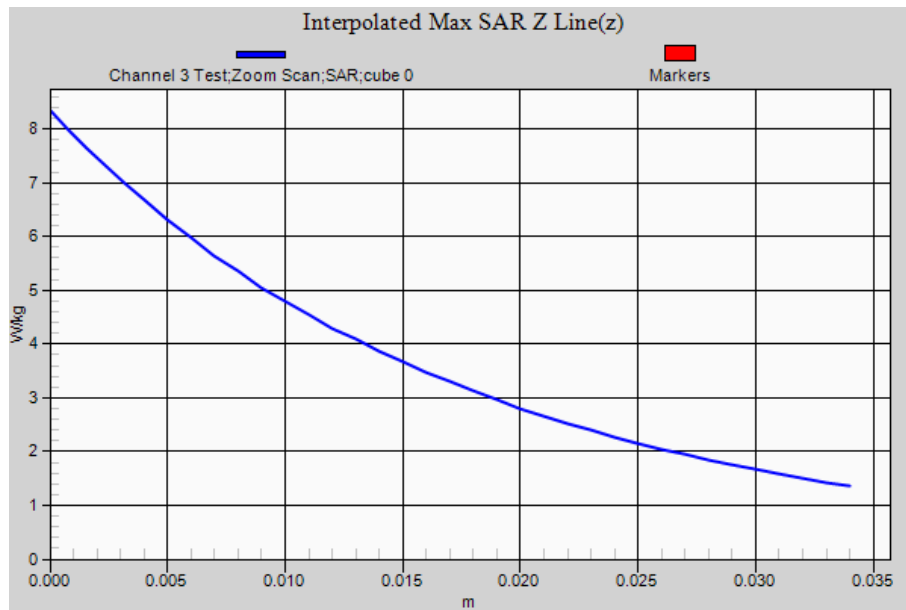
DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Head Face Frontal 16 Key 01-04-14/Channel 3 Test/Area Scan (81x181x1): Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 6.920 W/kg**Head Face Frontal 16 Key 01-04-14/Channel 3 Test/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 64.746 V/m; **Power Drift = -0.19 dB****Averaged SAR: SAR(1g) = 6.670 W/kg; SAR(10g) = 5.020 W/kg**

Maximum value of SAR (interpolated) = 8.330 W/kg



SAR Measurement Plot 88



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Test Lab: EMCTech

Test File: M140227 450 MHz Face Frontal Antenna Helical.da52:1

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Head Face Frontal Low Capacity Battery 16 Key 01-04-14**

Communication System: 0 - CW (0); Communication System Band: Tait 485 MHz; Frequency: 485.0 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=485$ MHz; $\sigma = 0.87$ S/m; $\epsilon_r = 42.0$; $\rho = 1.0\text{g/cm}^3$
 Phantom section: Flat Section

DASY Configuration:

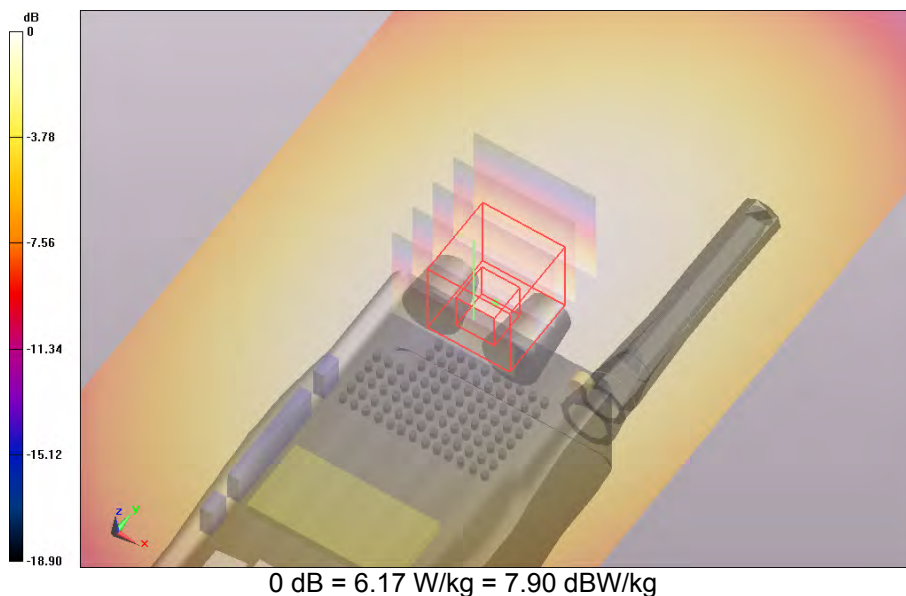
Probe: ET3DV6 - SN1380; ConvF: (7.31,7.31,7.31); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101
 DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Head Face Frontal Low Capacity Battery 16 Key 01-04-14/Channel 3 Test/Area Scan (81x181x1):Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 6.170 W/kg**Head Face Frontal Low Capacity Battery 16 Key 01-04-14/Channel 3 Test/Zoom Scan**

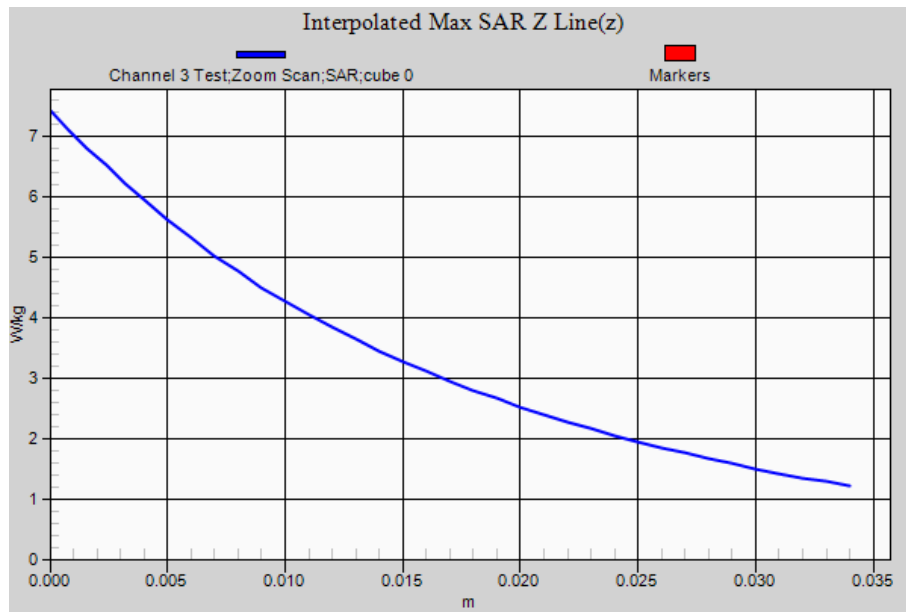
(21x21x36)/Cube 0: Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 64.398 V/m; **Power Drift = -0.20 dB**

Averaged SAR: SAR(1g) = 5.930 W/kg; SAR(10g) = 4.470 W/kg

Maximum value of SAR (interpolated) = 7.410 W/kg



SAR Measurement Plot 89



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Test Lab: EMCTech

Test File: M140227 450 MHz Face Frontal Antenna Helical.da52:2

DUT Name: Tait PTT Transceiver, Type: TPDH7A, Serial: 25543015**Configuration: Head Face Frontal 4 Key 01-04-14**

Communication System: 0 - CW (0); Communication System Band: Tait 485 MHz; Frequency: 485.0 MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=485$ MHz; $\sigma = 0.87$ S/m; $\epsilon_r = 42.0$; $\rho = 1.0\text{g/cm}^3$
 Phantom section: Flat Section

DASY Configuration:

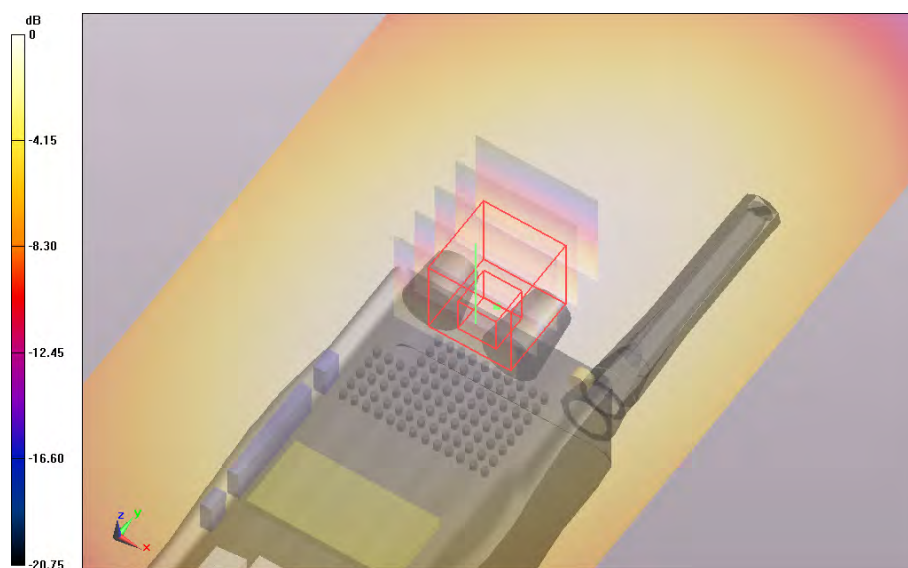
Probe: ET3DV6 - SN1380; ConvF: (7.31,7.31,7.31); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection (Locations From Previous Scan Used))
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1101
 DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Head Face Frontal 4 Key 01-04-14/Channel 3 Test/Area Scan (81x181x1): Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 6.690 W/kg

Head Face Frontal 4 Key 01-04-14/Channel 3 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 65.057 V/m; **Power Drift = -0.19 dB**

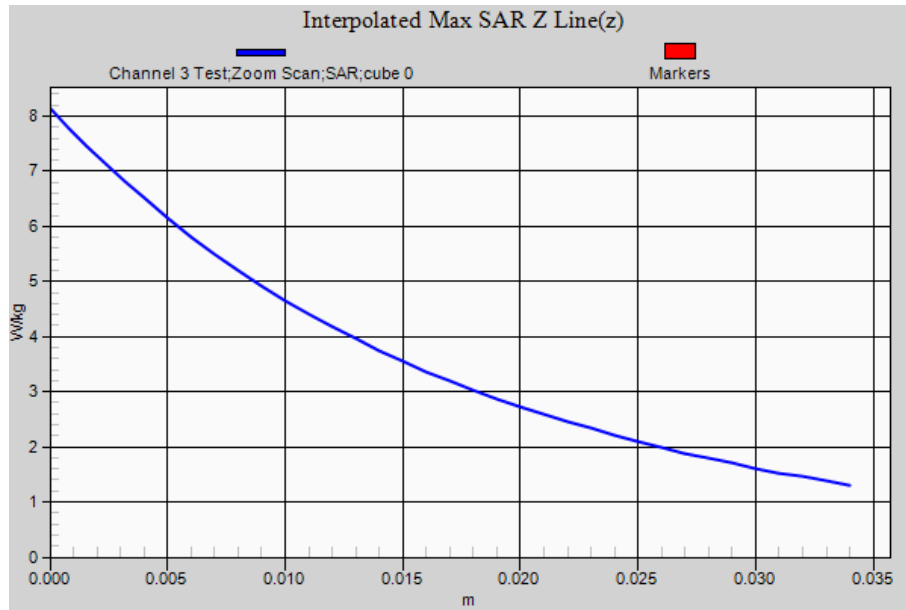
Averaged SAR: SAR(1g) = 6.490 W/kg; SAR(10g) = 4.880 W/kg

Maximum value of SAR (interpolated) = 8.130 W/kg



0 dB = 6.69 W/kg = 8.25 dBW/kg

SAR Measurement Plot 90



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