Report No.: M140624FR Page 24 of 108

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.





Report No.: M140624FR Page 25 of 108

Test Lab: EMCTech Test File: M140624 PTT 450 MHz Face Frontal FCC 26-06-14.da52:0

DUT Name: Simoco PTT transmitter, Type: SDP660 UW, Serial: 56KUW1415 05SL

Configuration: Face Frontal

Communication System: 0 - CW (0); Communication System Band: Simoco 450 MHz; Frequency: 440.1

MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00 Medium Parameters used: f=440 MHz; σ = 0.84 S/m; ϵ_r = 45.2; ρ = 1000.0g/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 v4.0 (30deg probe tilt); Type: QDOVA001BB; Serial: TP:1101

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

Face Frontal/Channel 1 Test/Area Scan (281x81x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum

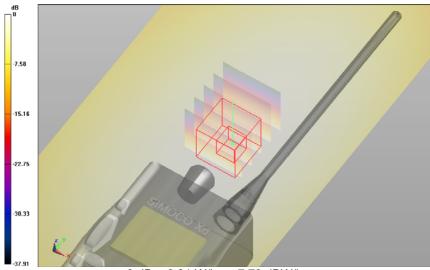
value of SAR (interpolated) = 6.010 W/kg

Face Frontal/Channel 1 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6

mm, dz=1.0 mm; Reference Value = 77.140 V/m; Power Drift = -0.20 dB

Averaged SAR: SAR(1g) = 5.570 W/kg; SAR(10g) = 4.180 W/kg

Maximum value of SAR (interpolated) = 7.240 W/kg

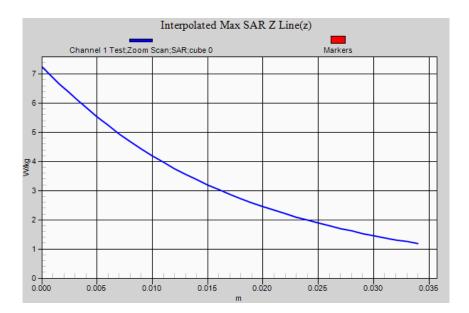


0 dB = 6.01 W/kg = 7.79 dBW/kg





Report No.: M140624FR Page 26 of 108







Report No.: M140624FR Page 27 of 108

Test Lab: EMCTech Test File: M140624 PTT 450 MHz Face Frontal FCC 26-06-14.da52:0

DUT Name: Simoco PTT transmitter, Type: SDP660 UW, Serial: 56KUW1415 05SL

Configuration: Face Frontal

Communication System: 0 - CW (0); Communication System Band: Simoco 450 MHz; Frequency: 458.0

MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00 Medium Parameters used: f=458 MHz; σ = 0.86 S/m; ϵ_r = 44.8; ρ = 1000.0g/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 v4.0 (30deg probe tilt); Type: QDOVA001BB; Serial: TP:1101

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

Face Frontal/Channel 2 Test/Area Scan (221x81x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum

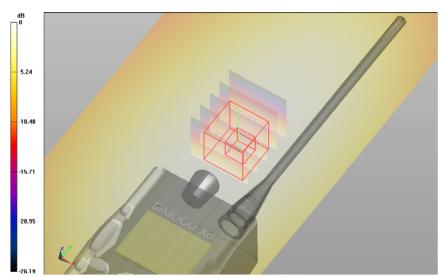
value of SAR (interpolated) = 8.030 W/kg

Face Frontal/Channel 2 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6

mm, dz=1.0 mm; Reference Value = 90.141 V/m; Power Drift = -0.14 dB

Averaged SAR: SAR(1g) = 7.440 W/kg; SAR(10g) = 5.570 W/kg

Maximum value of SAR (interpolated) = 9.770 W/kg

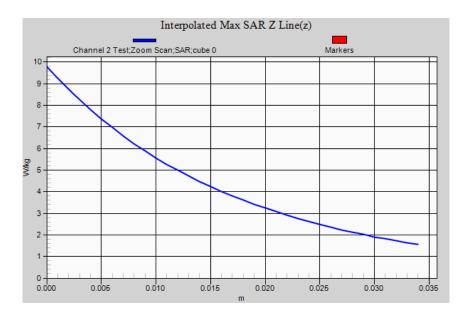


0 dB = 8.03 W/kg = 9.05 dBW/kg





Report No.: M140624FR Page 28 of 108







Report No.: M140624FR Page 29 of 108

Test Lab: EMCTech Test File: M140624 PTT 450 MHz Face Frontal FCC 26-06-14.da52:0

DUT Name: Simoco PTT transmitter, Type: SDP660 UW, Serial: 56KUW1415 05SL

Configuration: Face Frontal

Communication System: 0 - CW (0); Communication System Band: Simoco 450 MHz; Frequency: 476.0

MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00 Medium Parameters used: f=476 MHz; σ = 0.87 S/m; ϵ_r = 44.5; ρ = 1000.0g/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 v4.0 (30deg probe tilt); Type: QDOVA001BB; Serial: TP:1101

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

Face Frontal/Channel 3 Test/Area Scan (221x81x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum

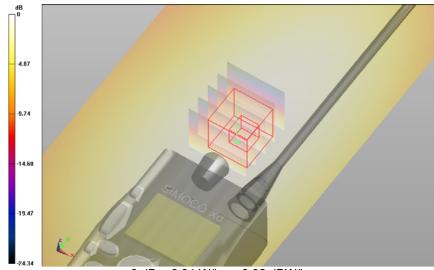
value of SAR (interpolated) = 6.340 W/kg

Face Frontal/Channel 3 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6

mm, dz=1.0 mm; Reference Value = 77.994 V/m; Power Drift = -0.15 dB

Averaged SAR: SAR(1g) = 5.890 W/kg; SAR(10g) = 4.400 W/kg

Maximum value of SAR (interpolated) = 7.710 W/kg

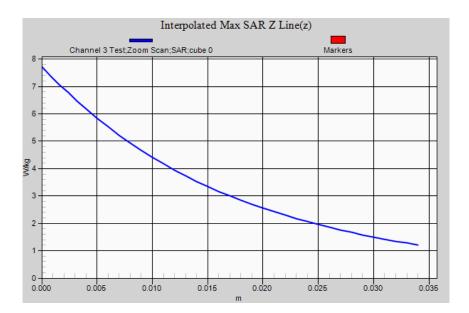


0 dB = 6.34 W/kg = 8.02 dBW/kg





Report No.: M140624FR Page 30 of 108







Report No.: M140624FR Page 31 of 108

Test Lab: EMCTech Test File: M140624 PTT 450 MHz Face Frontal FCC 26-06-14.da52:0

DUT Name: Simoco PTT transmitter, Type: SDP660 UW, Serial: 56KUW1415 05SL

Configuration: Face Frontal

Communication System: 0 - CW (0); Communication System Band: Simoco 450 MHz; Frequency: 494.0

MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00 Medium Parameters used: f=494 MHz; σ = 0.89 S/m; ϵ_r = 44.1; ρ = 1000.0g/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 v4.0 (30deg probe tilt); Type: QDOVA001BB; Serial: TP:1101

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

Face Frontal/Channel 4 Test/Area Scan (221x81x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum

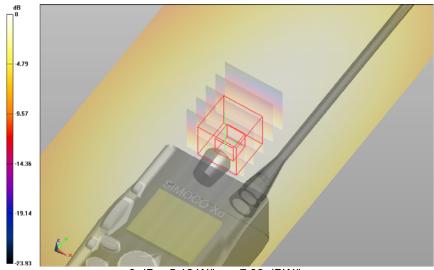
value of SAR (interpolated) = 5.120 W/kg

Face Frontal/Channel 4 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6

mm, dz=1.0 mm; Reference Value = 68.309 V/m; Power Drift = -0.10 dB

Averaged SAR: SAR(1g) = 4.800 W/kg; SAR(10g) = 3.600 W/kg

Maximum value of SAR (interpolated) = 6.230 W/kg

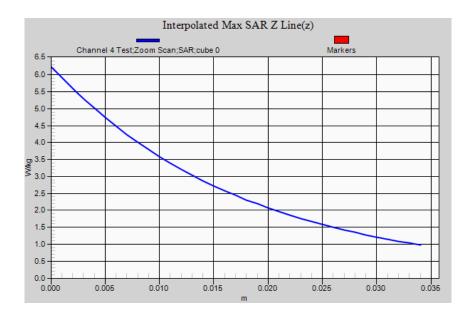


0 dB = 5.12 W/kg = 7.09 dBW/kg





Report No.: M140624FR Page 32 of 108







Report No.: M140624FR Page 33 of 108

Test Lab: EMCTech Test File: M140624 PTT 450 MHz Face Frontal FCC 26-06-14.da52:0

DUT Name: Simoco PTT transmitter, Type: SDP660 UW, Serial: 56KUW1415 05SL

Configuration: Face Frontal

Communication System: 0 - CW (0); Communication System Band: Simoco 450 MHz; Frequency: 511.9

MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00 Medium Parameters used: f=512 MHz; σ = 0.90 S/m; ϵ_r = 43.8; ρ = 1000.0g/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 v4.0 (30deg probe tilt); Type: QDOVA001BB; Serial: TP:1101

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

Face Frontal/Channel 5 Test/Area Scan (221x81x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum

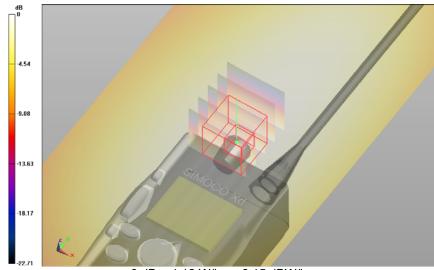
value of SAR (interpolated) = 4.120 W/kg

Face Frontal/Channel 5 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6

mm, dz=1.0 mm; Reference Value = 60.958 V/m; Power Drift = -0.20 dB

Averaged SAR: SAR(1g) = 3.820 W/kg; SAR(10g) = 2.870 W/kg

Maximum value of SAR (interpolated) = 4.950 W/kg

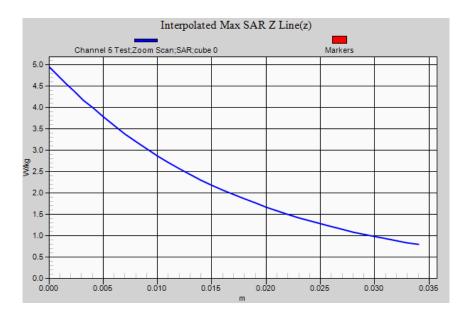


0 dB = 4.12 W/kg = 6.15 dBW/kg





Report No.: M140624FR Page 34 of 108







Report No.: M140624FR Page 35 of 108

Test Lab: EMCTech Test File: M140624 PTT 450 MHz Face Frontal FCC 26-06-14.da52:1

DUT Name: Simoco PTT transmitter, Type: SDP660 UW, Serial: 56KUW1415 05SL

Configuration: Face Frontal Holster

Communication System: 0 - CW (0); Communication System Band: Simoco 450 MHz; Frequency: 458.0

MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00 Medium Parameters used: f=458 MHz; σ = 0.86 S/m; ϵ_r = 44.8; ρ = 1000.0g/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 v4.0 (30deg probe tilt); Type: QDOVA001BB; Serial: TP:1101

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

Face Frontal Holster/Channel 2 Test/Area Scan (221x81x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm;

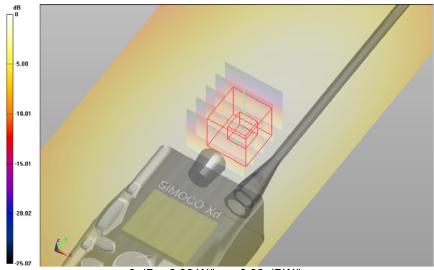
Maximum value of SAR (interpolated) = 6.880 W/kg

Face Frontal Holster/Channel 2 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm,

dy=1.6 mm, dz=1.0 mm; Reference Value = 79.624 V/m; Power Drift = -0.12 dB

Averaged SAR: SAR(1g) = 6.470 W/kg; SAR(10g) = 4.840 W/kg

Maximum value of SAR (interpolated) = 8.550 W/kg

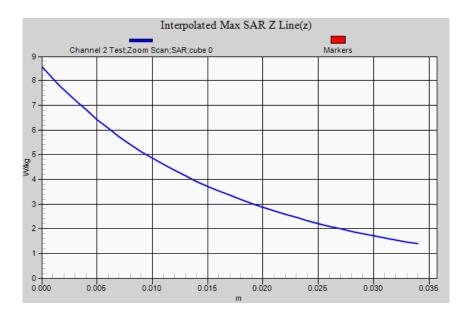


0 dB = 6.88 W/kg = 8.38 dBW/kg





Report No.: M140624FR Page 36 of 108







Report No.: M140624FR Page 37 of 108

Test Lab: EMCTech Test File: M140624 PTT 450 MHz Face Frontal FCC 26-06-14.da52:2

DUT Name: Dipole 450 MHz, Type: D450V3, Serial: 1074

Configuration: System Check

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; σ = 0.85 S/m; ε_r = 45.0; ρ = 1000.0g/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 v4.0 (30deg probe tilt); Type: QDOVA001BB; Serial: TP:1101

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

System Check/Channel 1Test/Area Scan (51x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm;

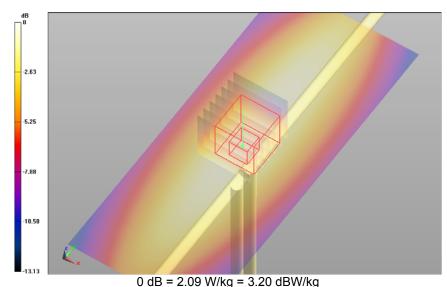
Maximum value of SAR (interpolated) = 2.090 W/kg

System Check/Channel 1Test/Zoom Scan (31x31x36)/Cube 0: Interpolated grid: dx=1.0 mm, dy=1.0

mm, dz=1.0 mm; Reference Value = 52.725 V/m; Power Drift = -0.17 dB

Averaged SAR: SAR(1g) = 1.960 W/kg; SAR(10g) = 1.250 W/kg

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

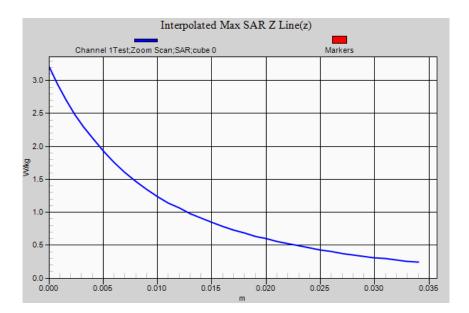


a_ =:00 ::...g 0:=0 a_=:...





Report No.: M140624FR Page 38 of 108







Report No.: M140624FR Page 39 of 108

Test Lab: EMCTech Test File: M140624 PTT 450 MHz Head FCC 27-06-14.da52:0

DUT Name: Simoco PTT transmitter, Type: SDP660 UW, Serial: 56KUW1415 05SL

Configuration: Touch Left

Communication System: 0 - DMR (ETSI TS 102 361-1) (0); Communication System Band: Simoco 450 MHz; Frequency: 476.0 MHz, Communication System PAR: 3.01 dB; PMF: 1.41; Duty Cycle: 1:2.00

Medium Parameters used: f=476 MHz; σ = 0.87 S/m; ε_r = 42.8; ρ = 1000.0g/cm³

Phantom section: Left 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: SAM 12; Type: SAM 12; Serial: 1060

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

Touch Left/Channel 15 Test/Area Scan (281x81x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum

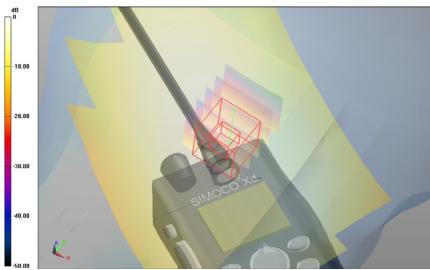
value of SAR (interpolated) = 4.170 W/kg

Touch Left/Channel 15 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6

mm, dz=1.0 mm; Reference Value = 45.786 V/m; Power Drift = 0.17 dB

Averaged SAR: SAR(1g) = 3.900 W/kg; SAR(10g) = 2.750 W/kg

Maximum value of SAR (interpolated) = 6.040 W/kg

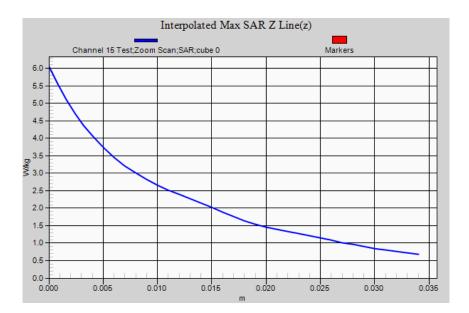


0 dB = 4.17 W/kg = 6.20 dBW/kg





Report No.: M140624FR Page 40 of 108







Report No.: M140624FR Page 41 of 108

Test Lab: EMCTech Test File: M140624 PTT 450 MHz Head FCC 27-06-14.da52:1

DUT Name: Simoco PTT transmitter, Type: SDP660 UW, Serial: 56KUW1415 05SL

Configuration: Tilted Left

Communication System: 0 - DMR (ETSI TS 102 361-1) (0); Communication System Band: Simoco 450 MHz; Frequency: 440.1 MHz, Communication System PAR: 3.01 dB; PMF: 1.41; Duty Cycle: 1:2.00

Medium Parameters used: f=440 MHz; σ = 0.83 S/m; ε_r = 43.4; ρ = 1000.0g/cm³

Phantom section: Left 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: SAM 12; Type: SAM 12; Serial: 1060

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

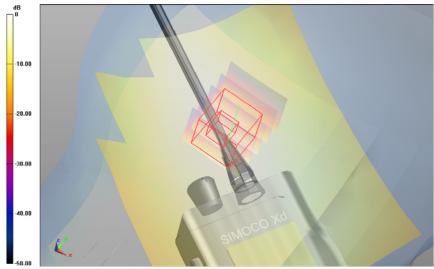
Tilted Left/Channel 13 Test/Area Scan (281x81x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum

value of SAR (interpolated) = 4.710 W/kg

Tilted Left/Channel 13 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm,

dz=1.0 mm; Reference Value = 67.340 V/m; Power Drift = 0.11 dB Averaged SAR: SAR(1g) = 4.460 W/kg; SAR(10g) = 2.970 W/kg

Maximum value of SAR (interpolated) = 7.500 W/kg

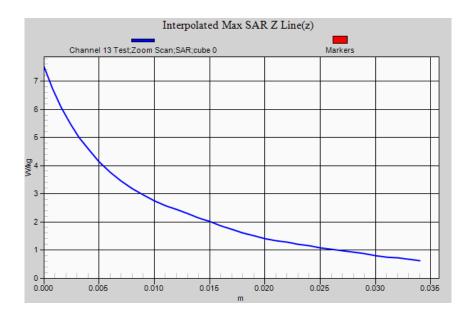


0 dB = 4.71 W/kg = 6.73 dBW/kg





Report No.: M140624FR Page 42 of 108







Report No.: M140624FR Page 43 of 108

Test Lab: EMCTech Test File: M140624 PTT 450 MHz Head FCC 27-06-14.da52:1

DUT Name: Simoco PTT transmitter, Type: SDP660 UW, Serial: 56KUW1415 05SL

Configuration: Tilted Left

Communication System: 0 - DMR (ETSI TS 102 361-1) (0); Communication System Band: Simoco 450 MHz; Frequency: 458.0 MHz, Communication System PAR: 3.01 dB; PMF: 1.41; Duty Cycle: 1:2.00

Medium Parameters used: f=458 MHz; σ = 0.85 S/m; ε_r = 43.0; ρ = 1000.0g/cm³

Phantom section: Left 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: SAM 12; Type: SAM 12; Serial: 1060

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

Tilted Left/Channel 14 Test/Area Scan (281x81x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum

value of SAR (interpolated) = 5.600 W/kg

Tilted Left/Channel 14 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm,

dz=1.0 mm; Reference Value = 73.864 V/m; Power Drift = -0.10 dB

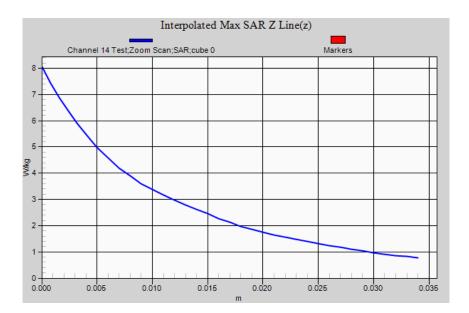
Averaged SAR: SAR(1g) = 5.130 W/kg; SAR(10g) = 3.460 W/kg Maximum value of SAR (interpolated) = 8.050 W/kg

0 dB = 5.60 W/kg = 7.48 dBW/kg





Report No.: M140624FR Page 44 of 108







Report No.: M140624FR Page 45 of 108

Test Lab: EMCTech Test File: M140624 PTT 450 MHz Head FCC 27-06-14.da52:1

DUT Name: Simoco PTT transmitter, Type: SDP660 UW, Serial: 56KUW1415 05SL

Configuration: Tilted Left

Communication System: 0 - DMR (ETSI TS 102 361-1) (0); Communication System Band: Simoco 450 MHz; Frequency: 476.0 MHz, Communication System PAR: 3.01 dB; PMF: 1.41; Duty Cycle: 1:2.00

Medium Parameters used: f=476 MHz; σ = 0.87 S/m; ε_r = 42.8; ρ = 1000.0g/cm³

Phantom section: Left 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: SAM 12; Type: SAM 12; Serial: 1060

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

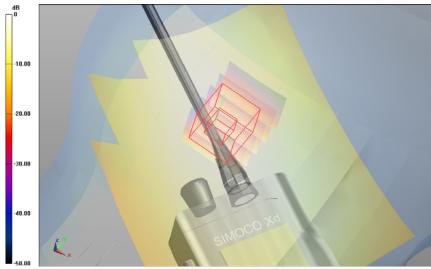
Tilted Left/Channel 15 Test/Area Scan (281x81x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 5.560 W/kg

Tilted Left/Channel 15 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm,

dz=1.0 mm; Reference Value = 75.039 V/m; **Power Drift = -0.19 dB**

Averaged SAR: SAR(1g) = 5.080 W/kg; SAR(10g) = 3.400 W/kg

Maximum value of SAR (interpolated) = 8.020 W/kg

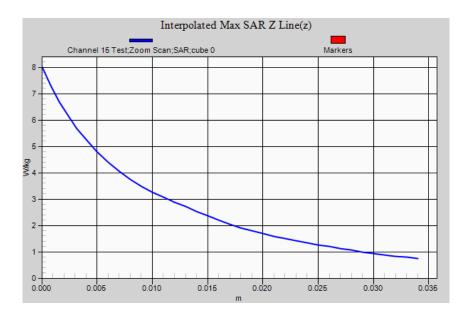


0 dB = 5.56 W/kg = 7.45 dBW/kg





Report No.: M140624FR Page 46 of 108







Report No.: M140624FR Page 47 of 108

Test Lab: EMCTech Test File: M140624 PTT 450 MHz Head FCC 27-06-14.da52:1

DUT Name: Simoco PTT transmitter, Type: SDP660 UW, Serial: 56KUW1415 05SL

Configuration: Tilted Left

Communication System: 0 - DMR (ETSI TS 102 361-1) (0); Communication System Band: Simoco 450 MHz; Frequency: 494.0 MHz, Communication System PAR: 3.01 dB; PMF: 1.41; Duty Cycle: 1:2.00

Medium Parameters used: f=494 MHz; σ = 0.88 S/m; ε_r = 42.4; ρ = 1000.0g/cm³

Phantom section: Left 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: SAM 12; Type: SAM 12; Serial: 1060

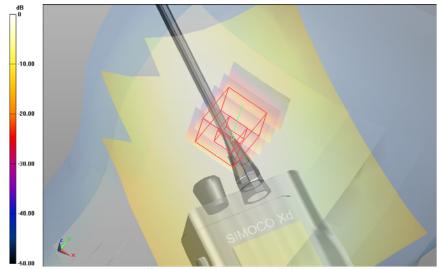
DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Tilted Left/Channel 16 Test/Area Scan (281x81x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 5.070 W/kg

Tilted Left/Channel 16 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm,

dz=1.0 mm; Reference Value = 69.381 V/m; Power Drift = 0.06 dB Averaged SAR: SAR(1g) = 4.780 W/kg; SAR(10g) = 3.130 W/kg

Maximum value of SAR (interpolated) = 7.680 W/kg

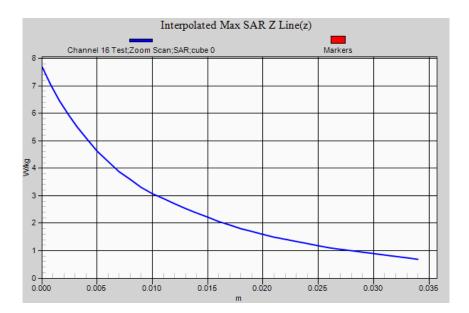


0 dB = 5.07 W/kg = 7.05 dBW/kg





Report No.: M140624FR Page 48 of 108







Report No.: M140624FR Page 49 of 108

Test Lab: EMCTech Test File: M140624 PTT 450 MHz Head FCC 27-06-14.da52:1

DUT Name: Simoco PTT transmitter, Type: SDP660 UW, Serial: 56KUW1415 05SL

Configuration: Tilted Left

Communication System: 0 - DMR (ETSI TS 102 361-1) (0); Communication System Band: Simoco 450 MHz; Frequency: 511.9 MHz, Communication System PAR: 3.01 dB; PMF: 1.41; Duty Cycle: 1:2.00

Medium Parameters used: f=512 MHz; σ = 0.90 S/m; ε_r = 42.1; ρ = 1000.0g/cm³

Phantom section: Left 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: SAM 12; Type: SAM 12; Serial: 1060

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

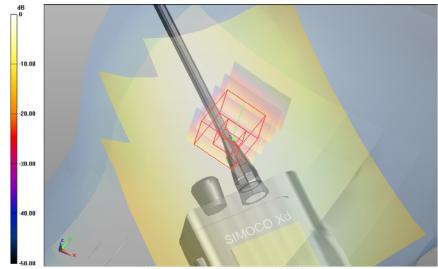
Tilted Left/Channel 17 Test/Area Scan (281x81x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum

value of SAR (interpolated) = 4.450 W/kg

Tilted Left/Channel 17 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm,

dz=1.0 mm; Reference Value = 65.950 V/m; Power Drift = -0.03 dB Averaged SAR: SAR(1g) = 4.260 W/kg; SAR(10g) = 2.800 W/kg

Maximum value of SAR (interpolated) = 6.800 W/kg

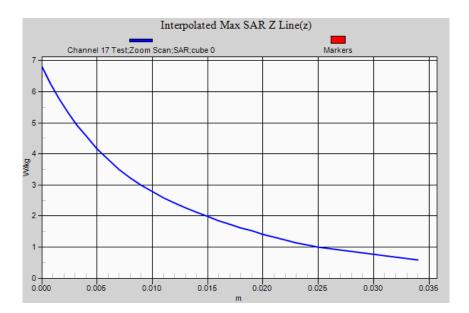


0 dB = 4.45 W/kg = 6.48 dBW/kg





Report No.: M140624FR Page 50 of 108







Report No.: M140624FR Page 51 of 108

Test Lab: EMCTech Test File: M140624 PTT 450 MHz Head FCC 27-06-14.da52:2

DUT Name: Simoco PTT transmitter, Type: SDP660 UW, Serial: 56KUW1415 05SL

Configuration: Tilted Left Holster

Communication System: 0 - DMR (ETSI TS 102 361-1) (0); Communication System Band: Simoco 450 MHz; Frequency: 458.0 MHz, Communication System PAR: 3.01 dB; PMF: 1.41; Duty Cycle: 1:2.00

Medium Parameters used: f=458 MHz; σ = 0.85 S/m; ε_r = 43.0; ρ = 1000.0g/cm³

Phantom section: Left 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: SAM 12; Type: SAM 12; Serial: 1060

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

Tilted Left Holster/Channel 14 Test/Area Scan (281x81x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm;

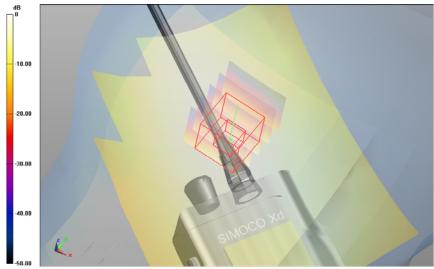
Maximum value of SAR (interpolated) = 4.460 W/kg

Tilted Left Holster/Channel 14 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm,

dy=1.6 mm, dz=1.0 mm; Reference Value = 63.610 V/m; Power Drift = -0.02 dB

Averaged SAR: SAR(1g) = 4.100 W/kg; SAR(10g) = 2.850 W/kg

Maximum value of SAR (interpolated) = 6.030 W/kg

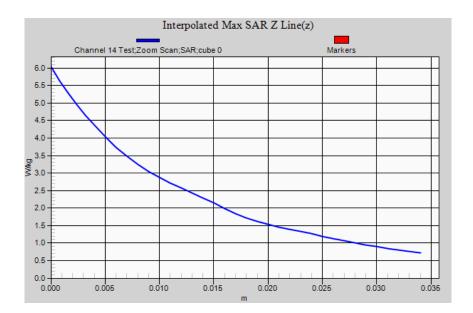


0 dB = 4.46 W/kg = 6.49 dBW/kg





Report No.: M140624FR Page 52 of 108







Report No.: M140624FR Page 53 of 108

Test Lab: EMCTech Test File: M140624 PTT 450 MHz Head FCC 27-06-14.da52:3

DUT Name: Simoco PTT transmitter, Type: SDP660 UW, Serial: 56KUW1415 05SL

Configuration: Tilted Left Variability

Communication System: 0 - DMR (ETSI TS 102 361-1) (0); Communication System Band: Simoco 450 MHz; Frequency: 458.0 MHz, Communication System PAR: 3.01 dB; PMF: 1.41; Duty Cycle: 1:2.00

Medium Parameters used: f=458 MHz; σ = 0.85 S/m; ε_r = 43.0; ρ = 1000.0g/cm³

Phantom section: Left 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: SAM 12; Type: SAM 12; Serial: 1060

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

Tilted Left Variability/Channel 14 Test/Area Scan (281x81x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm;

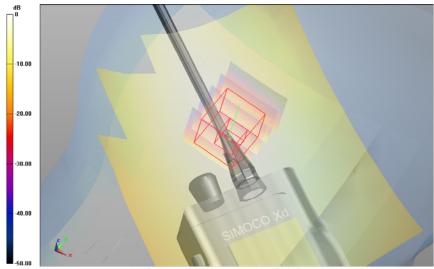
Maximum value of SAR (interpolated) = 5.510 W/kg

Tilted Left Variability/Channel 14 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm,

dy=1.6 mm, dz=1.0 mm; Reference Value = 70.698 V/m; Power Drift = 0.07 dB

Averaged SAR: SAR(1g) = 5.180 W/kg; SAR(10g) = 3.460 W/kg

Maximum value of SAR (interpolated) = 8.340 W/kg

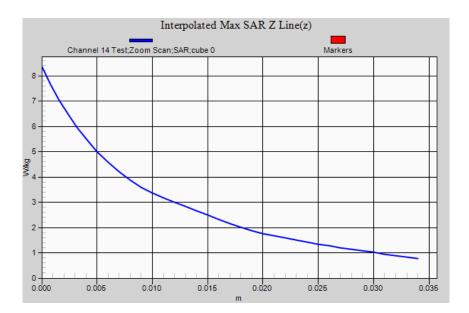


0 dB = 5.51 W/kg = 7.41 dBW/kg





Report No.: M140624FR Page 54 of 108







Report No.: M140624FR Page 55 of 108

Test Lab: EMCTech Test File: M140624 PTT 450 MHz Head FCC 27-06-14.da52:4

DUT Name: Simoco PTT transmitter, Type: SDP660 UW, Serial: 56KUW1415 05SL

Configuration: Touch Right

Communication System: 0 - DMR (ETSI TS 102 361-1) (0); Communication System Band: Simoco 450 MHz; Frequency: 476.0 MHz, Communication System PAR: 3.01 dB; PMF: 1.41; Duty Cycle: 1:2.00

Medium Parameters used: f=476 MHz; σ = 0.87 S/m; ε_r = 42.8; ρ = 1000.0g/cm³

Phantom section: Right 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: SAM 12; Type: SAM 12; Serial: 1060

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

Touch Right/Channel 15 Test/Area Scan (281x81x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm;

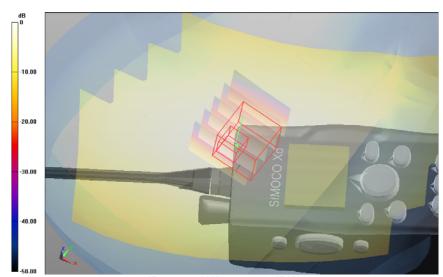
Maximum value of SAR (interpolated) = 3.970 W/kg

Touch Right/Channel 15 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6

mm, dz=1.0 mm; Reference Value = 45.259 V/m; Power Drift = 0.04 dB

Averaged SAR: SAR(1g) = 3.770 W/kg; SAR(10g) = 2.690 W/kg

Maximum value of SAR (interpolated) = 5.240 W/kg

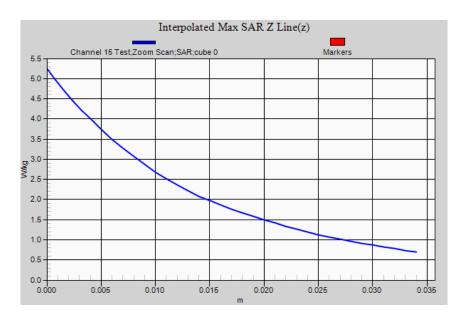


0 dB = 3.97 W/kg = 5.99 dBW/kg





Report No.: M140624FR Page 56 of 108







Report No.: M140624FR Page 57 of 108

Test Lab: EMCTech Test File: M140624 PTT 450 MHz Head FCC 27-06-14.da52:5

DUT Name: Simoco PTT transmitter, Type: SDP660 UW, Serial: 56KUW1415 05SL

Configuration: Tilted Right

Communication System: 0 - DMR (ETSI TS 102 361-1) (0); Communication System Band: Simoco 450 MHz; Frequency: 476.0 MHz, Communication System PAR: 3.01 dB; PMF: 1.41; Duty Cycle: 1:2.00

Medium Parameters used: f=476 MHz; σ = 0.87 S/m; ε_r = 42.8; ρ = 1000.0g/cm³

Phantom section: Right 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: SAM 12; Type: SAM 12; Serial: 1060

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

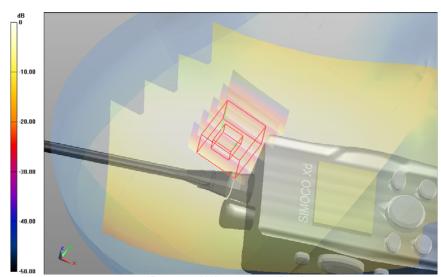
Tilted Right/Channel 15 Test/Area Scan (281x81x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 4.940 W/kg

Tilted Right/Channel 15 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6

mm, dz=1.0 mm; Reference Value = 64.197 V/m; Power Drift = 0.03 dB

Averaged SAR: SAR(1g) = 4.520 W/kg; SAR(10g) = 3.100 W/kg

Maximum value of SAR (interpolated) = 6.840 W/kg

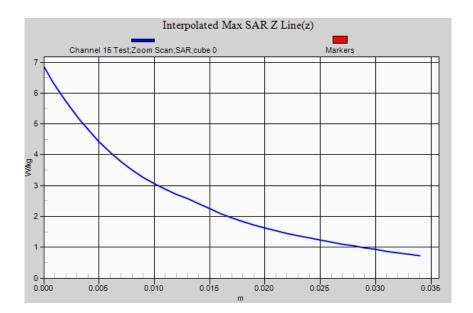


0 dB = 4.94 W/kg = 6.94 dBW/kg





Report No.: M140624FR Page 58 of 108







Report No.: M140624FR Page 59 of 108

Test Lab: EMCTech Test File: M140624 PTT 450 MHz Head FCC 27-06-14.da52:7

DUT Name: Dipole 450 MHz, Type: D450V3, Serial: 1074

Configuration: System Check

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; σ = 0.84 S/m; ϵ_r = 43.2; ρ = 1000.0g/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 v4.0 (30deg probe tilt); Type: QDOVA001BB; Serial: TP:1101

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

System Check/Channel 1Test/Area Scan (51x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm;

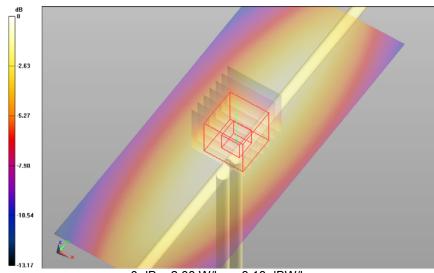
Maximum value of SAR (interpolated) = 2.080 W/kg

System Check/Channel 1Test/Zoom Scan (31x31x36)/Cube 0: Interpolated grid: dx=1.0 mm, dy=1.0

mm, dz=1.0 mm; Reference Value = 51.430 V/m; Power Drift = 0.04 dB

Averaged SAR: SAR(1g) = 2.000 W/kg; SAR(10g) = 1.280 W/kg

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

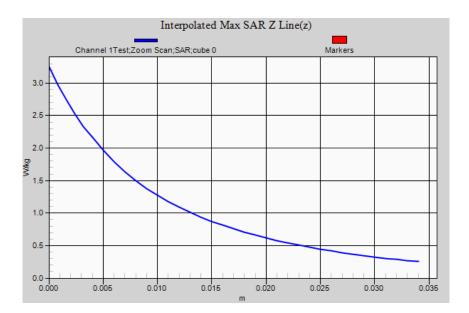


0 dB = 2.08 W/kg = 3.18 dBW/kg





Report No.: M140624FR Page 60 of 108







Report No.: M140624FR Page 61 of 108

Test Lab: EMCTech Test File: M140624 PTT 450 MHz Body Worn FCC 01-07-14.da52:0

DUT Name: Simoco PTT transmitter, Type: SDP660 UW, Serial: 56KUW1415 05SL

Configuration: Belt Clip (14mm Spacing)

Communication System: 0 - CW (0); Communication System Band: Simoco 450 MHz; Frequency: 476.0

MHz, Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00 Medium Parameters used: f=476 MHz; σ = 0.94 S/m; ϵ_r = 54.7; ρ = 1000.0g/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 v4.0 (30deg probe tilt); Type: QDOVA001BB; Serial: TP:1101

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

Belt Clip (14mm Spacing)/Channel 3 Test/Area Scan (221x81x1): Interpolated grid: dx=1.5 mm, dy=1.5

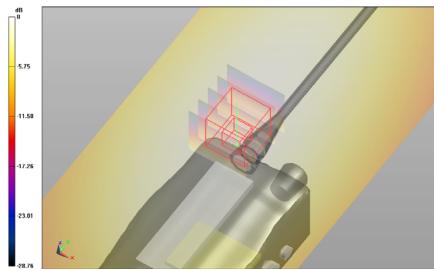
mm; Maximum value of SAR (interpolated) = 6.830 W/kg

Belt Clip (14mm Spacing)/Channel 3 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6

mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 73.223 V/m; Power Drift = -0.12 dB

Averaged SAR: SAR(1g) = 6.410 W/kg; SAR(10g) = 4.680 W/kg

Maximum value of SAR (interpolated) = 9.000 W/kg



0 dB = 6.83 W/kg = 8.34 dBW/kg





Report No.: M140624FR Page 62 of 108

