APPENDIX A: SAR DISTRIBUTION COMPARISON FOR ACCURACY VERIFICATION

Date/Time: 02/08/2005 12:35:27 PMDate/Time: 02/08/2005 12:31:29 PM

Lab: RIM Testing Services (RTS)

1900MHz_Validation_Ambient_Temp_22.6_C_Liquid_Temp_21.8_C_08-02-2005

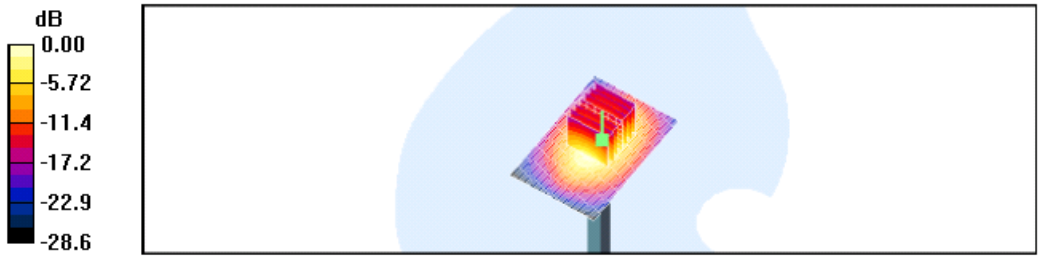
DUT: Dipole 1900 MHz; Type: D1900V2

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: HSL1900 Medium parameters used: f = 1900 MHz; σ = 1.45 mho/m; ε_r = 38.1; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1642; ConvF(5.29, 5.29, 5.29); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Dipole Validation/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 192.9 V/m; Power Drift = -0.022 dB
Peak SAR (extrapolated) = 76.7 W/kg
SAR(1 g) = 42.3 mW/g; SAR(10 g) = 21.8 mW/g
Maximum value of SAR (measured) = 47.8 mW/g

Dipole Validation/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 52.0 mW/g



0 dB = 52.0mW/g

Date/Time: 03/08/2005 10:16:07 AMDate/Time: 03/08/2005 10:12:09 AM

Lab: RIM Testing Services (RTS)

1900MHz_Validation_Ambient_Temp_22.3_C_Liquid_Temp_21.5_C_08-03-2005

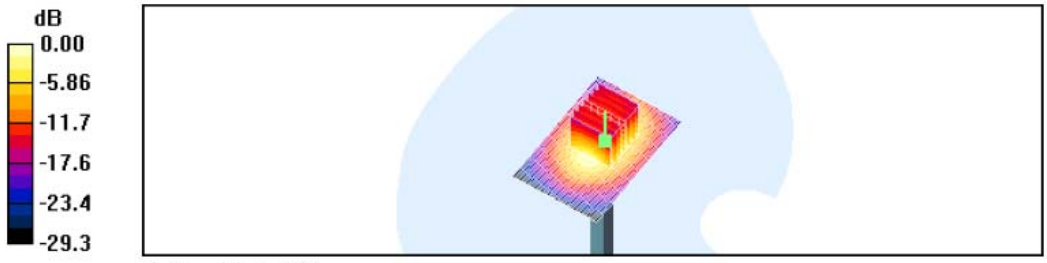
DUT: Dipole 1900 MHz; Type: D1900V2

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: HSL1900 Medium parameters used: f = 1900 MHz; σ = 1.46 mho/m; ε_r = 39.5; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1642; ConvF(5.29, 5.29, 5.29); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Dipole Validation/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 192.6 V/m; Power Drift = -0.00 dB
Peak SAR (extrapolated) = 78.2 W/kg
SAR(1 g) = 43.4 mW/g; SAR(10 g) = 22.4 mW/g
Maximum value of SAR (measured) = 49.1 mW/g

Dipole Validation/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 52.6 mW/g



0 dB = 52.6mW/g

APPENDIX B: SAR DISTRIBUTION PLOTS FOR HEAD CONFIGURATION

Date/Time: 02/08/2005 4:11:43 PMDate/Time: 02/08/2005 4:18:14 PM

Lab: RIM Testing Services (RTS)

Right_Touch_GSM1900_mid_chan_Ambient_Temp_23_1_C_Liquid_Temp_22_2_C

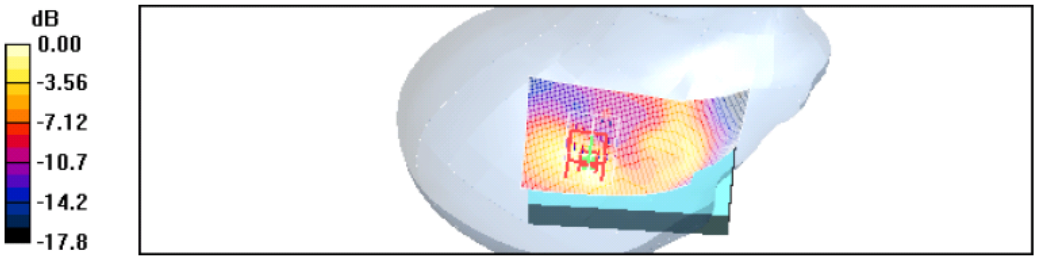
DUT: BlackBerry Wireless Handheld; Type: Sample

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1880 MHz; σ = 1.45 mho/m; ε_r = 38.2; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1642; ConvF(5.29, 5.29, 5.29); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.160 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.12 V/m; Power Drift = -0.013 dB
Peak SAR (extrapolated) = 0.228 W/kg
SAR(1 g) = 0.155 mW/g; SAR(10 g) = 0.085 mW/g
Maximum value of SAR (measured) = 0.179 mW/g



0 dB = 0.179mW/g

Date/Time: 02/08/2005 4:43:44 PMDate/Time: 02/08/2005 4:50:16 PM

Lab: RIM Testing Services (RTS)

Right_Tilted_GSM1900_mid_chan_Ambient_Temp_23_0_C_Liquid_Temp_21_9_C

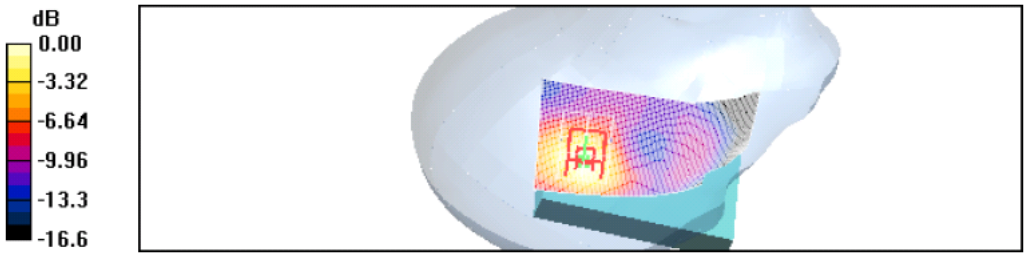
DUT: BlackBerry Wireless Handheld; Type: Sample

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1880 MHz; σ = 1.45 mho/m; ε_r = 38.2; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1642; ConvF(5.29, 5.29, 5.29); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.226 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.5 V/m; Power Drift = -0.050 dB
Peak SAR (extrapolated) = 0.289 W/kg
SAR(1 g) = 0.202 mW/g; SAR(10 g) = 0.118 mW/g
Maximum value of SAR (measured) = 0.223 mW/g



0 dB = 0.223mW/g

Date/Time: 03/08/2005 8:48:38 AMDate/Time: 03/08/2005 8:56:15 AM

Lab: RIM Testing Services (RTS)

Right_Tilted_GSM1900
LCD_1_mid_chan_Ambient_Temp_22.0_C_Liquid_Temp_21.5_C

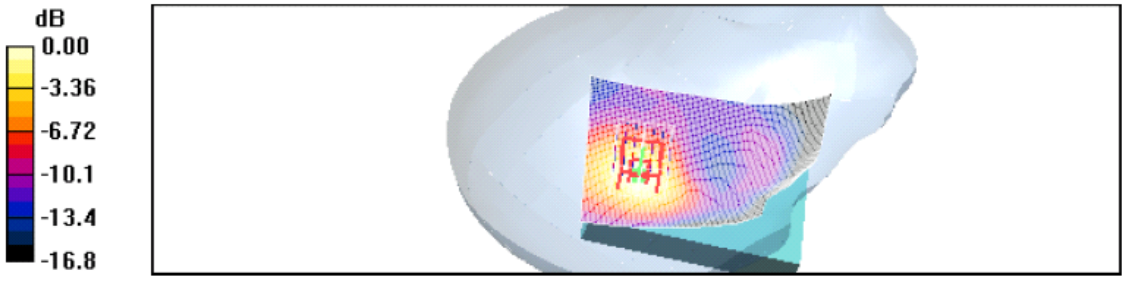
DUT: BlackBerry Wireless Handheld; Type: Sample

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1880 MHz; σ = 1.45 mho/m; ε_r = 38.2; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1642; ConvF(5.29, 5.29, 5.29); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Middle/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.225 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.4 V/m; Power Drift = -0.041 dB
Peak SAR (extrapolated) = 0.285 W/kg
SAR(1 g) = 0.203 mW/g; SAR(10 g) = 0.119 mW/g
Maximum value of SAR (measured) = 0.224 mW/g



0 dB = 0.224mW/g

Date/Time: 02/08/2005 5:38:56 PMDate/Time: 02/08/2005 5:47:06 PM

Lab: RIM Testing Services (RTS)

Left_Tilted_GSM1900_mid_chan_Ambient_Temp_23_1_C_Liquid_Temp_22_0_C

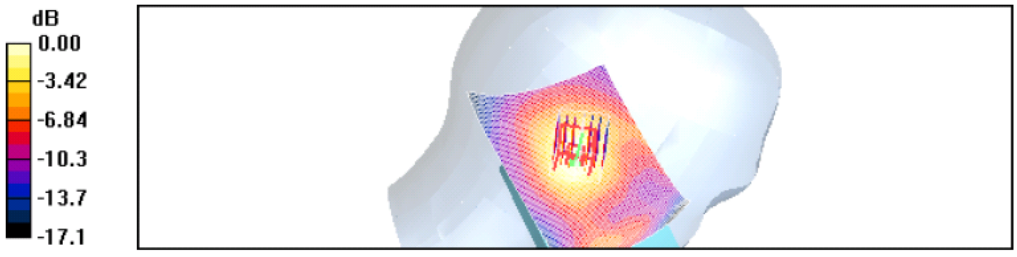
DUT: BlackBerry Wireless Handheld; Type: Sample

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1880 MHz; σ = 1.45 mho/m; ε_r = 38.2; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1642; ConvF(5.29, 5.29, 5.29); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

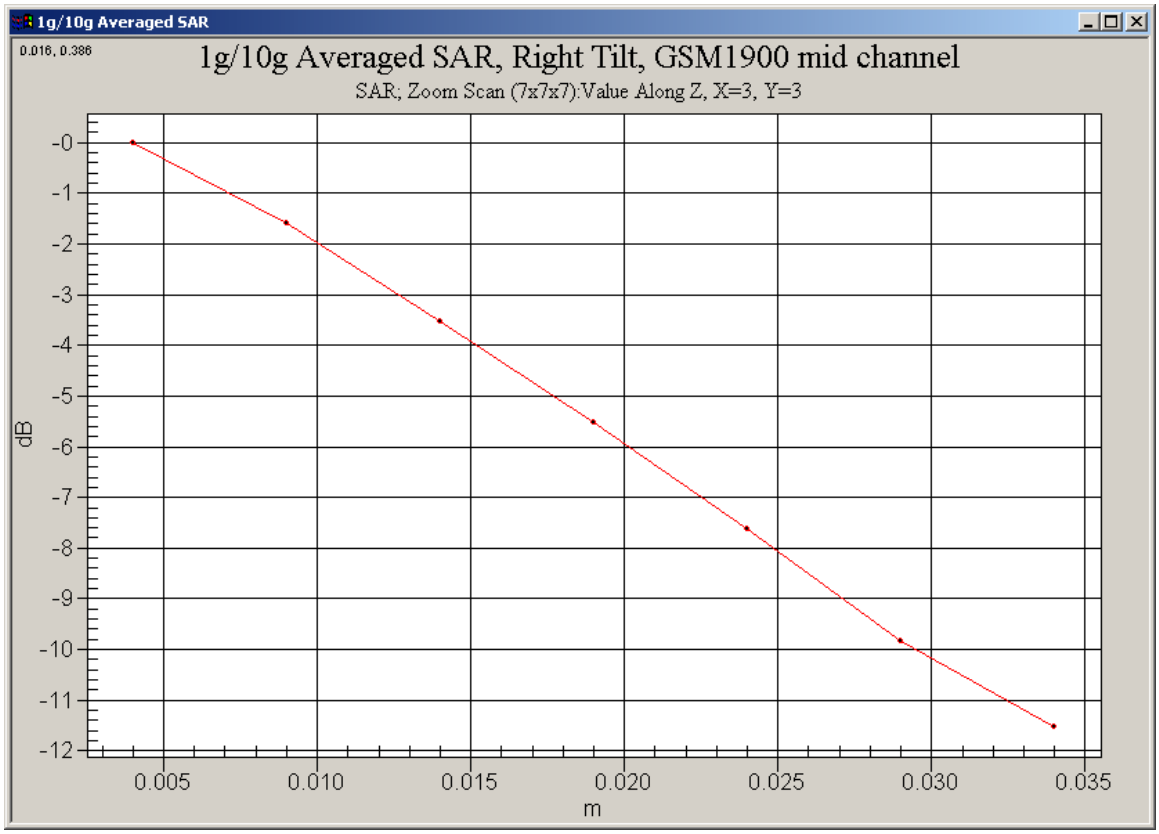
Touch position - Middle/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.199 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.0 V/m; Power Drift = -0.012 dB
Peak SAR (extrapolated) = 0.244 W/kg
SAR(1 g) = 0.171 mW/g; SAR(10 g) = 0.105 mW/g
Maximum value of SAR (measured) = 0.185 mW/g



0 dB = 0.185mW/g

Z-axis plot for worst-case head configuration:



APPENDIX C: SAR DISTRIBUTION PLOTS FOR BODY-WORN CONFIGURATION

Date/Time: 03/08/2005 11:06:09 AMDate/Time: 03/08/2005 10:57:43 AM

Lab: RIM Testing Services (RTS)

Body worn with Vertical Foam Holster_GSM 1900_Mid Chan_back side_Ambient_Temp_23.1_C_Liquid_Temp_21.8_C_08-03-2005

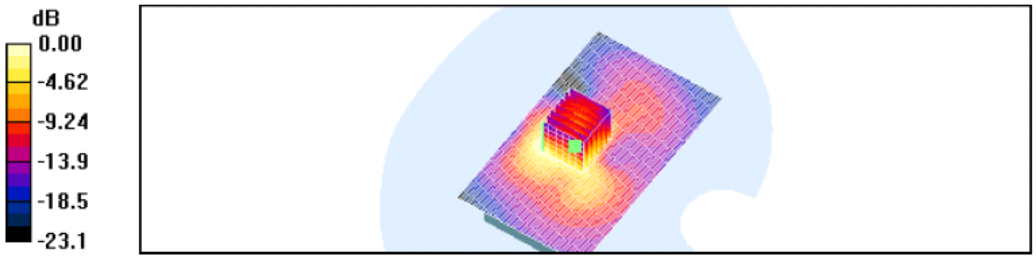
DUT: BlackBerry Wireless Handheld ; Type: Sample

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: M1900 Medium parameters used: f = 1880 MHz; σ = 1.57 mho/m; ε_r = 50.9; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1642; ConvF(4.78, 4.78, 4.78); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Dipole Validation/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 22.8 V/m; Power Drift = -0.122 dB
Peak SAR (extrapolated) = 1.45 W/kg
SAR(1 g) = 0.736 mW/g; SAR(10 g) = 0.430 mW/g
Maximum value of SAR (measured) = 0.839 mW/g

Dipole Validation/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.851 mW/g



0 dB = 0.851mW/g

Date/Time: 03/08/2005 11:38:49 AMDate/Time: 03/08/2005 11:30:19 AM

Lab: RIM Testing Services (RTS)

Body worn with 15 mm distance_GSM 1900_Mid Chan_back side_Ambient_Temp_23.3_C_Liquid_Temp_21.9_C_08-03-2005

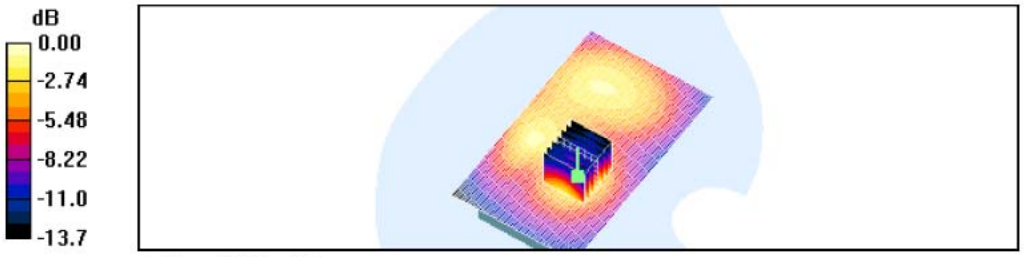
DUT: BlackBerry Wireless Handheld ; Type: Sample

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: M1900 Medium parameters used: f = 1880 MHz; σ = 1.57 mho/m; ε_r = 50.9; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1642; ConvF(4.78, 4.78, 4.78); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Dipole Validation/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.1 V/m; Power Drift = 0.066 dB
Peak SAR (extrapolated) = 0.439 W/kg
SAR(1 g) = 0.285 mW/g; SAR(10 g) = 0.168 mW/g
Maximum value of SAR (measured) = 0.313 mW/g

Dipole Validation/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.325 mW/g



0 dB = 0.325mW/g

Z-axis plot for worst-case body worn configuration: