APPENDIX C1: SAR DISTRIBUTION PLOTS FOR BODY-WORN CONFIGURATION

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited

LTE Band 25

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited

Date: 4/3/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 333CB445

Configuration: Body Worn MSL - LTE Band 25

Communication System: LTE band 25; Communication System Band: LTE band 25; Frequency: 1882.5 MHz
Medium Parameters used: f=1882.5 MHz; σ = 1.556 S/m; ε_r = 50.707; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

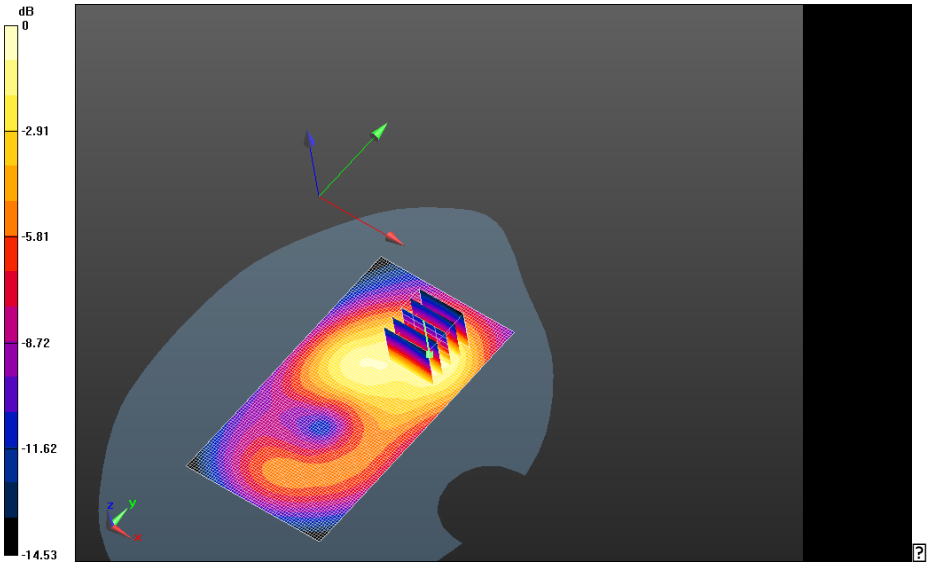
- Probe: ES3DV3 - SN3225; ConvF: (5.04,5.04,5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Body Worn MSL - LTE Band 25/15mm Device Back - LTE_25_chan26365_RB1_Off50_amb_temp_23.5C_liq_temp_21.2C/Area Scan (61x111x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.535 W/kg

Body Worn MSL - LTE Band 25/15mm Device Back - LTE_25_chan26365_RB1_Off50_amb_temp_23.5C_liq_temp_21.2C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 18.279 V/m; **Power Drift = -0.015 dB**

Averaged SAR: SAR(1g) = 0.451 W/kg; SAR(10g) = 0.275 W/kg
Maximum value of SAR (interpolated) = 0.719 W/kg

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited



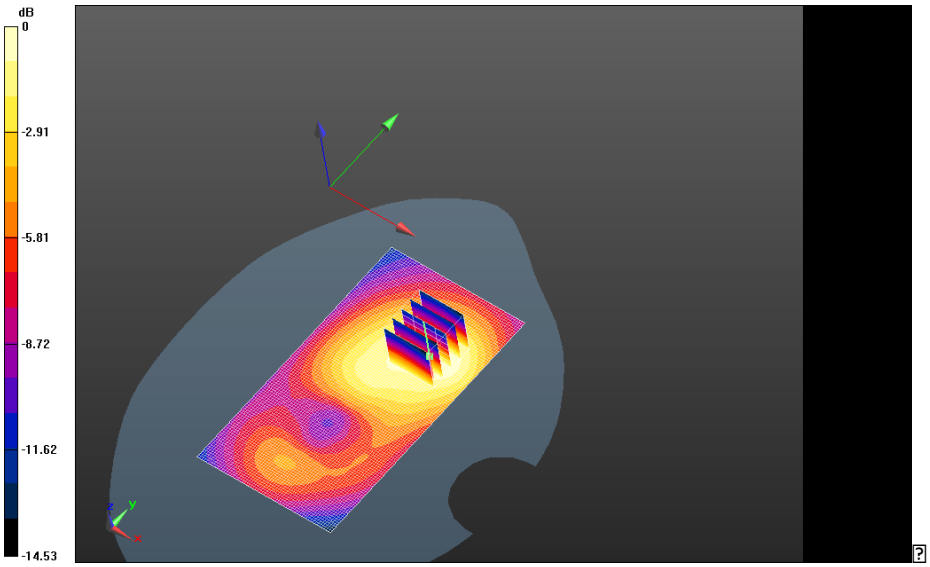
0 dB = 0.542 W/kg = -2.66 dBW/kg

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited

Body Worn MSL - LTE Band 25/Holster Device Back - LTE_25_chan26365_RB1_Off50_amb_temp_23.5C_liq_temp_21.2C/Area Scan (61x111x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.314 W/kg

Body Worn MSL - LTE Band 25/Holster Device Back - LTE_25_chan26365_RB1_Off50_amb_temp_23.5C_liq_temp_21.2C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 14.715 V/m; **Power Drift = -0.039 dB**

Averaged SAR: SAR(1g) = 0.265 W/kg; SAR(10g) = 0.164 W/kg
Maximum value of SAR (interpolated) = 0.422 W/kg



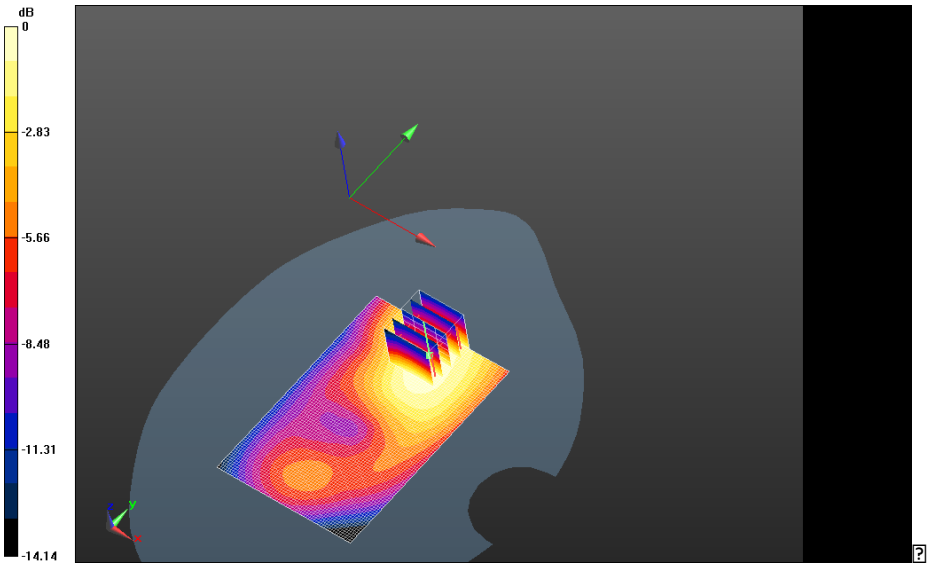
0 dB = 0.542 W/kg = -2.66 dBW/kg

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited

Body Worn MSL - LTE Band 25/Holster Device Front - LTE_25_chan26365_RB1_Off50_amb_temp_23.5C_liq_temp_21.2C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.244 W/kg

Body Worn MSL - LTE Band 25/Holster Device Front - LTE_25_chan26365_RB1_Off50_amb_temp_23.5C_liq_temp_21.2C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 12.839 V/m; **Power Drift = 0.072 dB**

Averaged SAR: SAR(1g) = 0.207 W/kg; SAR(10g) = 0.132 W/kg
Maximum value of SAR (interpolated) = 0.315 W/kg



0 dB = 0.285 W/kg = -5.45 dBW/kg

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited

SVLTE Band 25

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited

Date: 4/15/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 333CB46A

Configuration: Body Worn MSL - SVLTE Band 25

Communication System: LTE band 25; Communication System Band: LTE band 25; Frequency: 1905 MHz
Medium Parameters used: f=1905 MHz; σ = 1.568 S/m; ε_r = 50.884; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

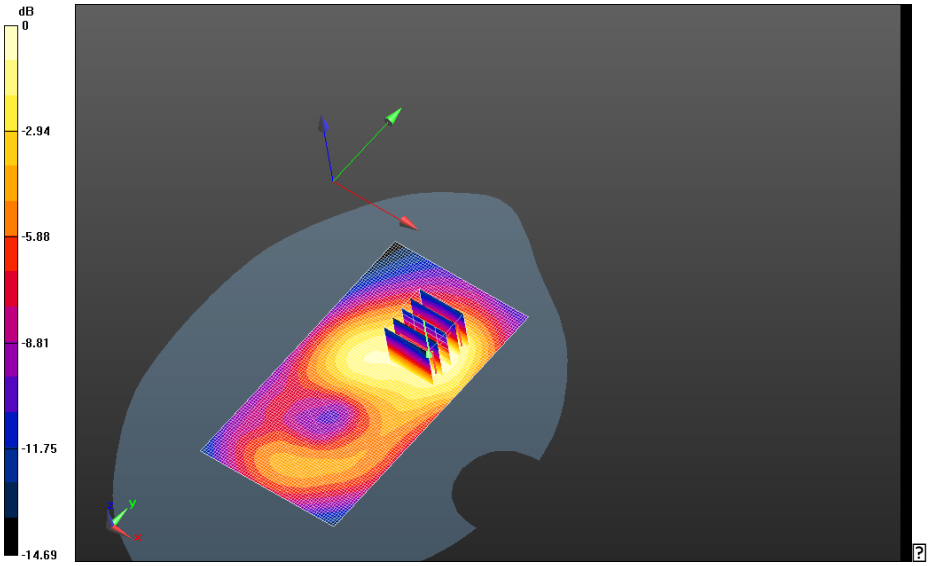
- Probe: ES3DV3 - SN3225; ConvF: (5.04,5.04,5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Body Worn MSL - SVLTE Band 25/15mm Device Back - LTE_25_chan26590_RB100_Off0_amb_temp_23.5C_liq_temp_21.2C/Area Scan (61x111x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.169 W/kg

Body Worn MSL - SVLTE Band 25/15mm Device Back - LTE_25_chan26590_RB100_Off0_amb_temp_23.5C_liq_temp_21.2C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 10.561 V/m; **Power Drift = -0.117 dB**

Averaged SAR: SAR(1g) = 0.137 W/kg; SAR(10g) = 0.0823 W/kg
Maximum value of SAR (interpolated) = 0.215 W/kg

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited



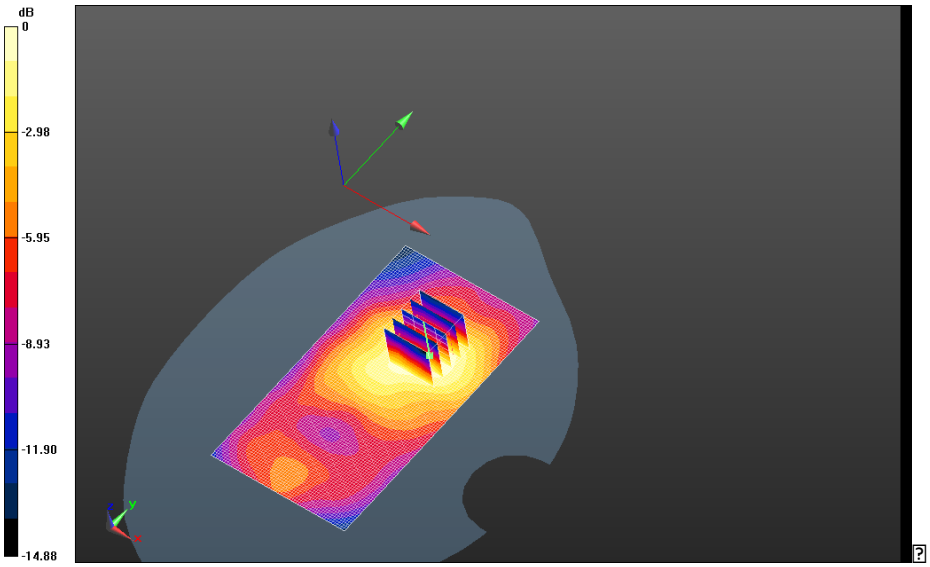
0 dB = 0.157 W/kg = -8.04 dBW/kg

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited

Body Worn MSL - SVLTE Band 25/Holster Device Back - LTE_25_chan26590_RB100_Off0_amb_temp_23.5C_liq_temp_21.2C/Area Scan (61x111x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.116 W/kg

Body Worn MSL - SVLTE Band 25/Holster Device Back - LTE_25_chan26590_RB100_Off0_amb_temp_23.5C_liq_temp_21.2C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 7.987 V/m; **Power Drift = -0.039 dB**

Averaged SAR: SAR(1g) = 0.0886 W/kg; SAR(10g) = 0.0543 W/kg
Maximum value of SAR (interpolated) = 0.138 W/kg



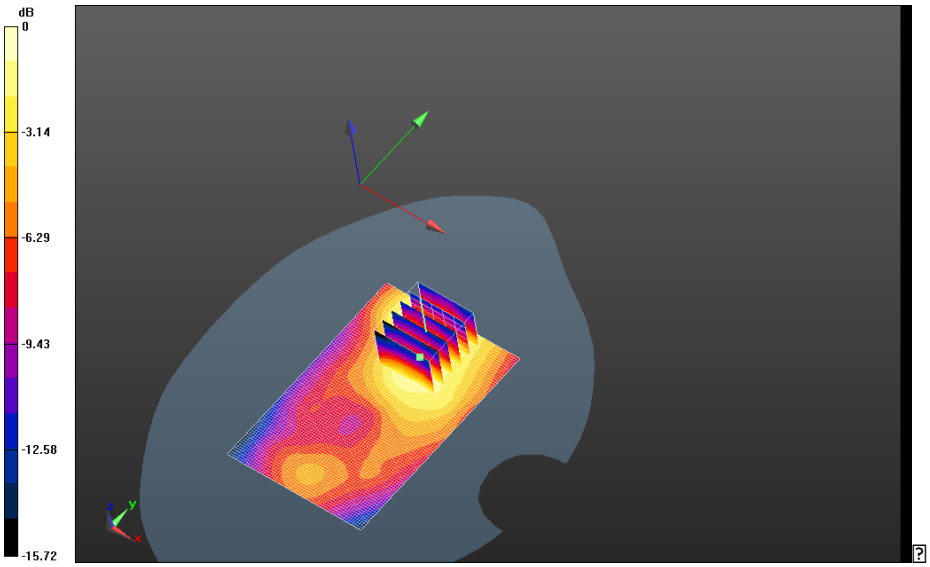
0 dB = 0.157 W/kg = -8.04 dBW/kg

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited

Body Worn MSL - SVLTE Band 25/Holster Device Front - LTE_25_chan26590_RB100_Off0_amb_temp_23.5C_liq_temp_21.2C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.0808 W/kg

Body Worn MSL - SVLTE Band 25/Holster Device Front - LTE_25_chan26590_RB100_Off0_amb_temp_23.5C_liq_temp_21.2C/Zoom Scan (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 7.406 V/m; **Power Drift = 0.00747 dB**

Averaged SAR: SAR(1g) = 0.0683 W/kg; SAR(10g) = 0.0433 W/kg
Maximum value of SAR (interpolated) = 0.107 W/kg



0 dB = 0.106 W/kg = -9.75 dBW/kg

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited

GPRS 850

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited

Date: 4/17/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 333CB445

Configuration: Body Worn MSL - GPRS 850

Communication System: GPRS 850 (3 slots); Communication System Band: GPRS 850 (3 slots); Frequency: 836.8 MHz
Medium Parameters used: f=836.8 MHz; σ = 0.960 S/m; ε_r = 53.014; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

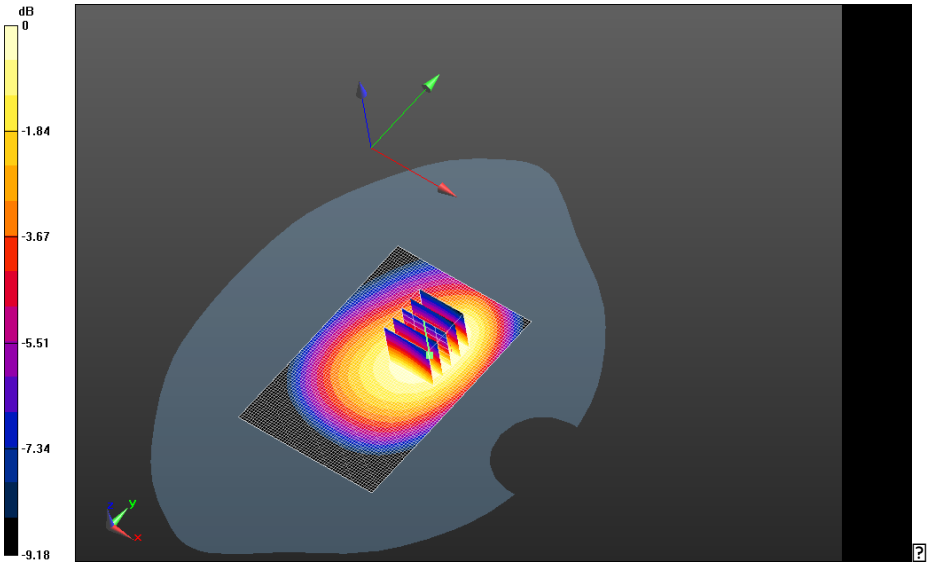
- Probe: ES3DV3 - SN3225; ConvF: (6.12,6.12,6.12); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Body Worn MSL - GPRS 850/15mm Device Back - GPRS850_3-slots_chan190_amb_temp_23.3C_liq_temp_21.0C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.781 W/kg

Body Worn MSL - GPRS 850/15mm Device Back - GPRS850_3-slots_chan190_amb_temp_23.3C_liq_temp_21.0C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 26.035 V/m; **Power Drift = 0.176 dB**

Averaged SAR: SAR(1g) = 0.678 W/kg; SAR(10g) = 0.496 W/kg
Maximum value of SAR (interpolated) = 0.905 W/kg

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited



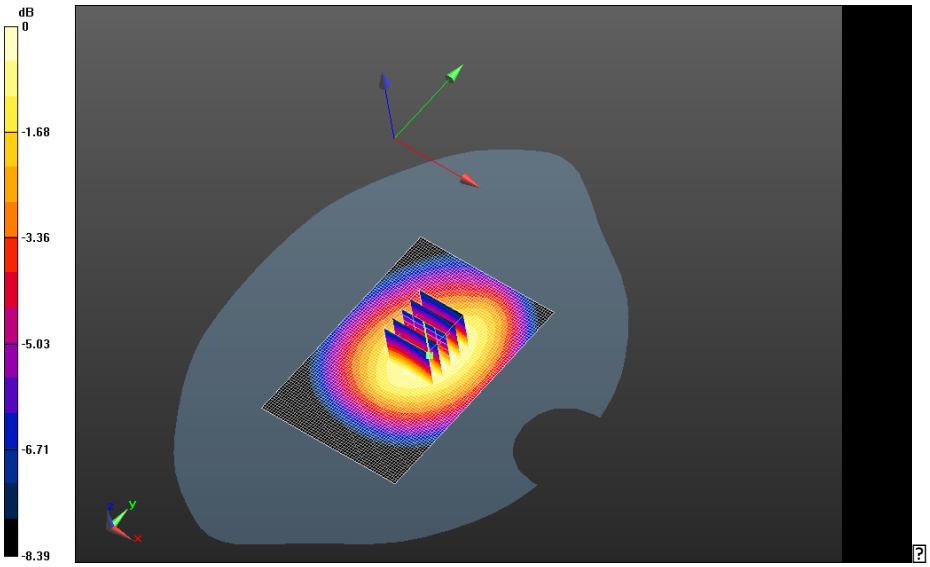
0 dB = 0.762 W/kg = -1.18 dBW/kg

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited

Body Worn MSL - GPRS 850/Holster Device Back - GPRS850_3-slots_chan190_amb_temp_23.3C_liq_temp_21.0C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.410 W/kg

Body Worn MSL - GPRS 850/Holster Device Back - GPRS850_3-slots_chan190_amb_temp_23.3C_liq_temp_21.0C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 20.933 V/m; **Power Drift = 0.060 dB**

Averaged SAR: SAR(1g) = 0.376 W/kg; SAR(10g) = 0.280 W/kg
Maximum value of SAR (interpolated) = 0.481 W/kg



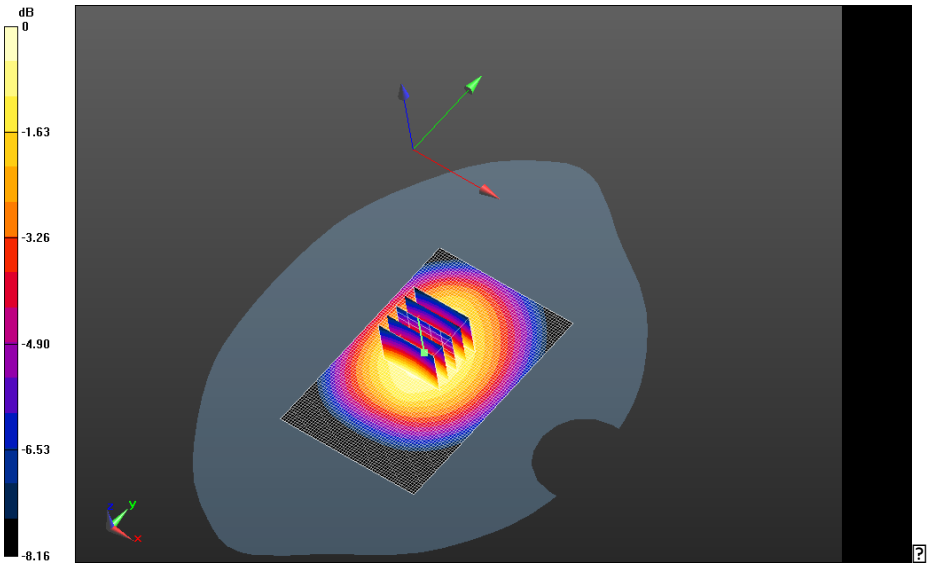
0 dB = 0.762 W/kg = -1.18 dBW/kg

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited

Body Worn MSL - GPRS 850/Holster Device Front - GPRS850_3-slots_chan190_amb_temp_23.0C_liq_temp_21.0C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.402 W/kg

Body Worn MSL - GPRS 850/Holster Device Front - GPRS850_3-slots_chan190_amb_temp_23.0C_liq_temp_21.0C/Zoom Scan (26x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 20.960 V/m; **Power Drift = 0.163 dB**

Averaged SAR: SAR(1g) = 0.382 W/kg; SAR(10g) = 0.289 W/kg
Maximum value of SAR (interpolated) = 0.481 W/kg



0 dB = 0.417 W/kg = -3.80 dBW/kg

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited

UMTS band V

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited

Date: 4/16/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 333CB445

Configuration: Body worn MSL - UMTS Band V

Communication System: WCDMA FDD V; Communication System Band: UMTS band V;
Frequency: 836.4 MHz
Medium Parameters used: f=836.4 MHz; σ = 0.960 S/m; ε_r = 53.021; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

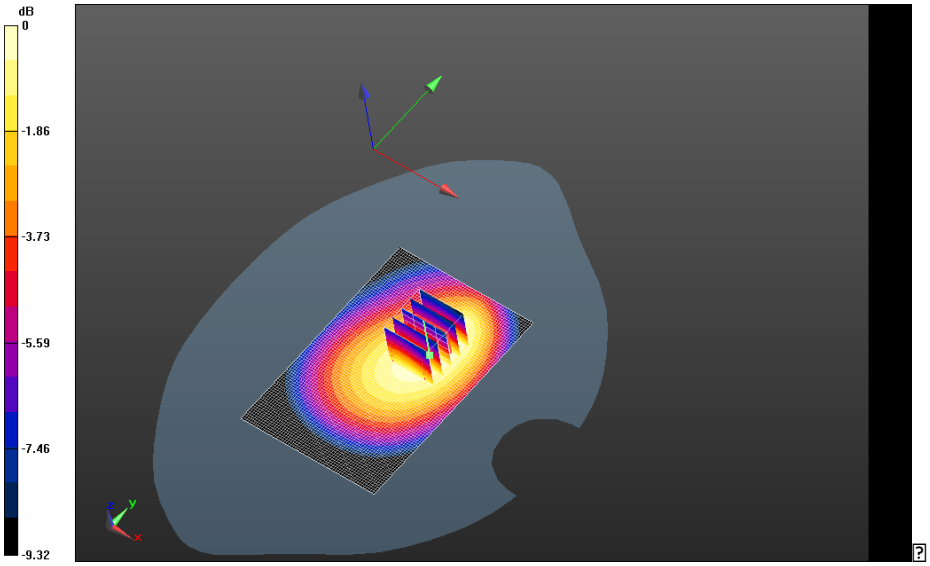
- Probe: ES3DV3 - SN3225; ConvF: (6.12,6.12,6.12); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Body worn MSL - UMTS Band V/15mm Device Back - UMTS_Band_V_chan4182_amb_temp_23.4C_liq_temp_22.2C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.710 W/kg

Body worn MSL - UMTS Band V/15mm Device Back - UMTS_Band_V_chan4182_amb_temp_23.4C_liq_temp_22.2C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 25.531 V/m; **Power Drift = -0.00326 dB**

Averaged SAR: SAR(1g) = 0.617 W/kg; SAR(10g) = 0.449 W/kg
Maximum value of SAR (interpolated) = 0.821 W/kg

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited



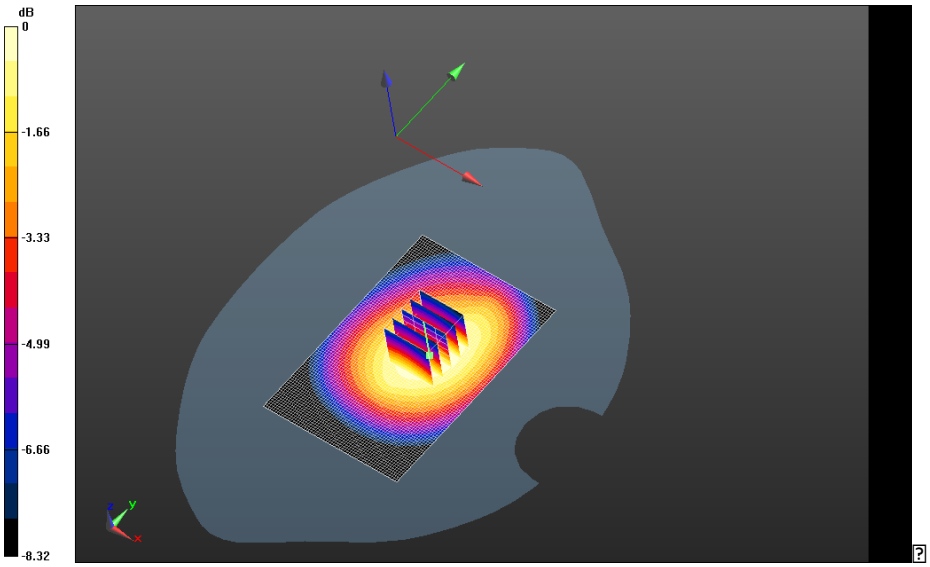
0 dB = 0.694 W/kg = -1.59 dBW/kg

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited

Body worn MSL - UMTS Band V/Holster Device Back - UMTS_Band_V_chan4182_amb_temp_23.0C_liq_temp_22.2C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.448 W/kg

Body worn MSL - UMTS Band V/Holster Device Back - UMTS_Band_V_chan4182_amb_temp_23.0C_liq_temp_22.2C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 21.682 V/m; **Power Drift = -0.041 dB**

Averaged SAR: SAR(1g) = 0.398 W/kg; SAR(10g) = 0.297 W/kg
Maximum value of SAR (interpolated) = 0.505 W/kg



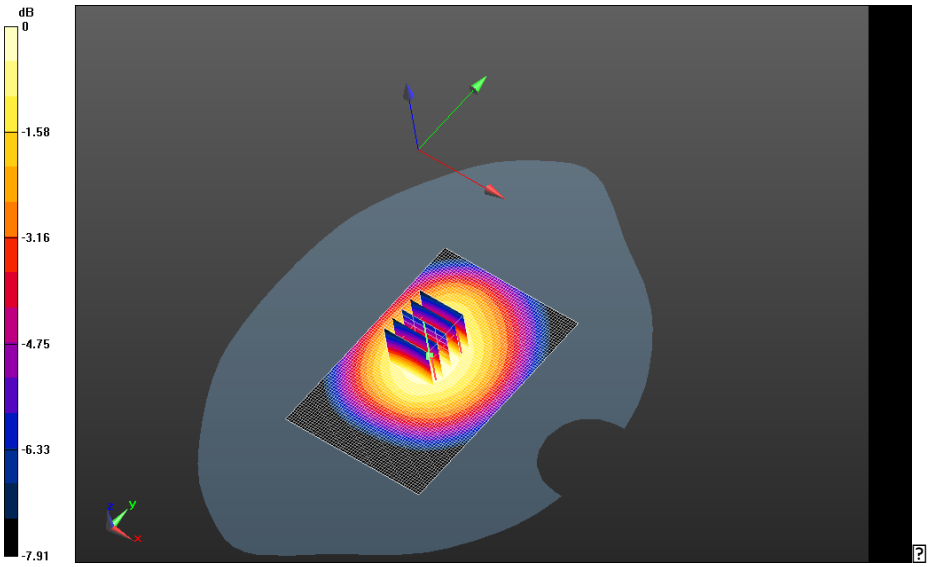
0 dB = 0.694 W/kg = -1.59 dBW/kg

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited

Body worn MSL - UMTS Band V/Holster Device Front - UMTS_Band_V_chan4182_amb_temp_23.0C_liq_temp_22.2C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.425 W/kg

Body worn MSL - UMTS Band V/Holster Device Front - UMTS_Band_V_chan4182_amb_temp_23.0C_liq_temp_22.2C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 21.430 V/m; **Power Drift = -0.015 dB**

Averaged SAR: SAR(1g) = 0.387 W/kg; SAR(10g) = 0.293 W/kg
Maximum value of SAR (interpolated) = 0.487 W/kg



0 dB = 0.440 W/kg = -3.57 dBW/kg

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited

CDMA 850

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited

Date: 4/16/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 333CB445

Configuration: Body worn MSL_CDMA 850

Communication System: CDMA 850; Communication System Band: CDMA 2000 Cellular; Frequency: 836.52 MHz
Medium Parameters used: f=836.52 MHz; σ = 0.960 S/m; ε_r = 53.019; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

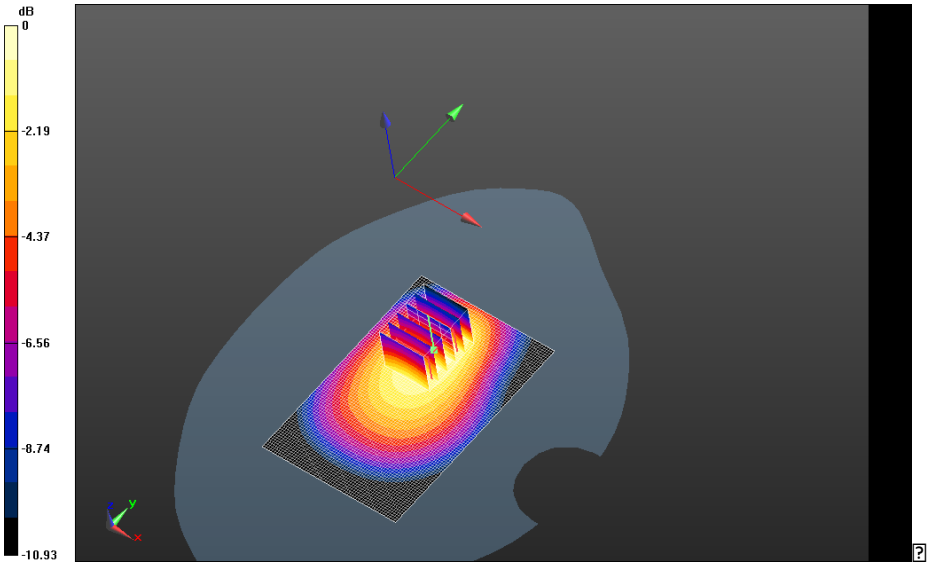
- Probe: ES3DV3 - SN3225; ConvF: (6.12,6.12,6.12); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Body worn MSL_CDMA 850/15mm Device Back - CDMA850_chan384_amb_temp_23.2C_liq_temp_21.7C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.525 W/kg

Body worn MSL_CDMA 850/15mm Device Back - CDMA850_chan384_amb_temp_23.2C_liq_temp_21.7C/Zoom Scan (21x26x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 20.258 V/m; **Power Drift = -0.041 dB**

Averaged SAR: SAR(1g) = 0.455 W/kg; SAR(10g) = 0.320 W/kg
Maximum value of SAR (interpolated) = 0.638 W/kg

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited



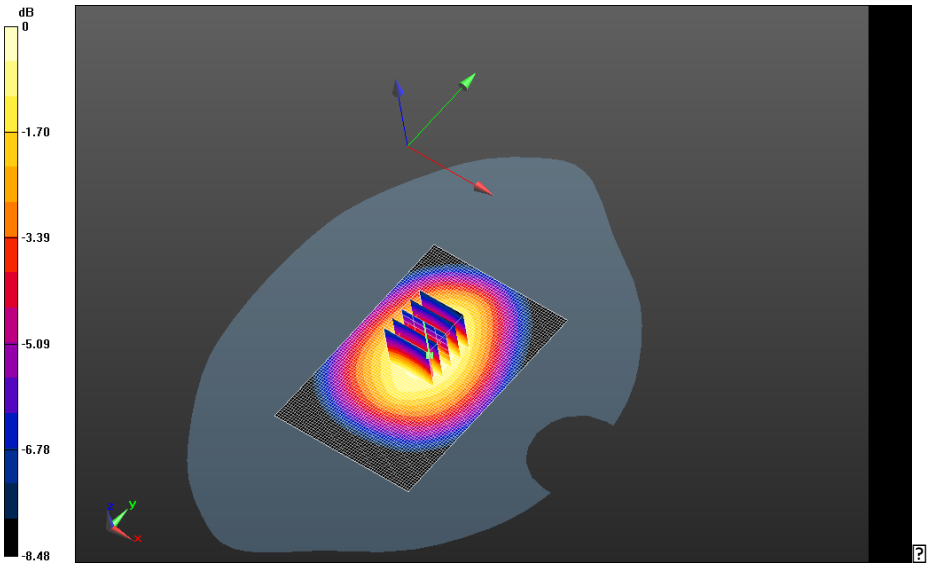
0 dB = 0.516 W/kg = -2.87 dBW/kg

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited

Body worn MSL_CDMA 850/Holster Device Back - CDMA850_chan384_amb_temp_23.2C_liq_temp_21.7C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.391 W/kg

Body worn MSL_CDMA 850/Holster Device Back - CDMA850_chan384_amb_temp_23.2C_liq_temp_21.7C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 20.072 V/m; **Power Drift = 0.101 dB**

Averaged SAR: SAR(1g) = 0.346 W/kg; SAR(10g) = 0.257 W/kg
Maximum value of SAR (interpolated) = 0.439 W/kg



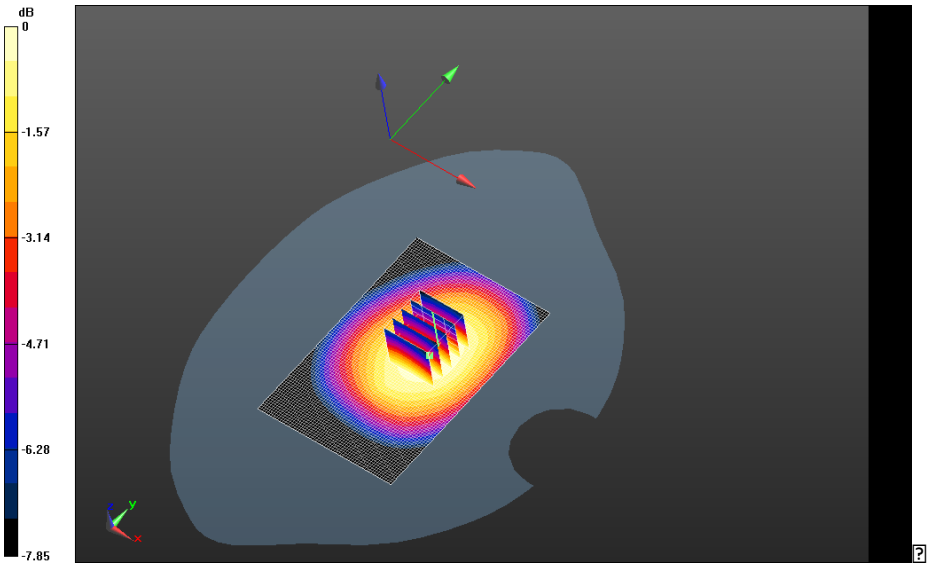
0 dB = 0.516 W/kg = -2.87 dBW/kg

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited

Body worn MSL_CDMA 850/Holster Device Front - CDMA850_chan384_amb_temp_23.2C_liq_temp_21.7C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.313 W/kg

Body worn MSL_CDMA 850/Holster Device Front - CDMA850_chan384_amb_temp_23.2C_liq_temp_21.7C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 18.273 V/m; **Power Drift = -0.080 dB**

Averaged SAR: SAR(1g) = 0.285 W/kg; SAR(10g) = 0.216 W/kg
Maximum value of SAR (interpolated) = 0.359 W/kg



0 dB = 0.384 W/kg = -4.16 dBW/kg

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited

GPRS 1900

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited

Date: 4/9/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 333CB445

Configuration: Body Worn MSL - GPRS 1900

Communication System: GPRS 1900; Communication System Band: GPRS 1900; Frequency: 1880 MHz
Medium Parameters used: f=1880 MHz; σ = 1.515 S/m; ε_r = 50.915; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

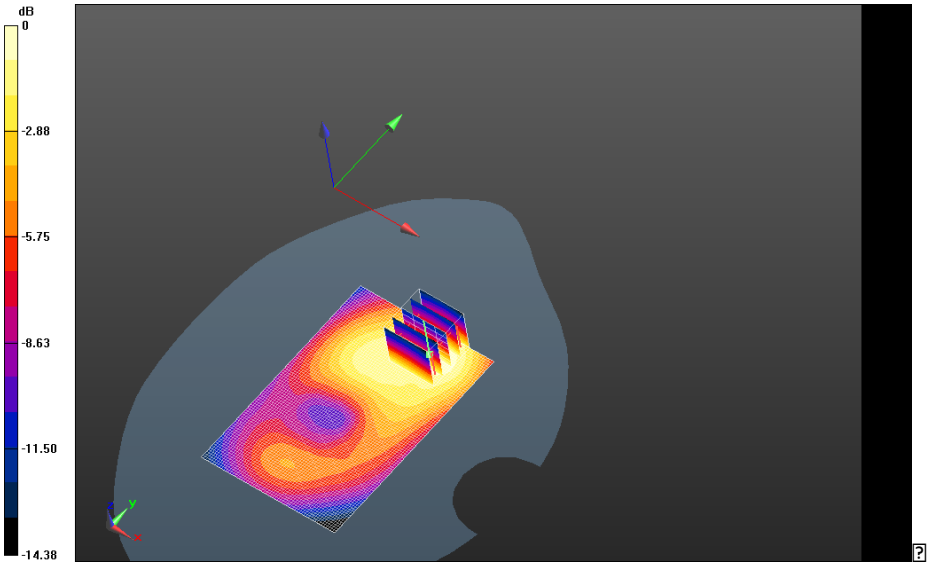
- Probe: ES3DV3 - SN3225; ConvF: (5.04,5.04,5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Body Worn MSL - GPRS 1900/15mm Device Back - GPRS_1900_2-slot_chan661_amb_temp_23.1C_liq_temp_21.1C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.593 V/m; **Power Drift = 0.00187 dB**

Body Worn MSL - GPRS 1900/15mm Device Back - GPRS_1900_2-slot_chan661_amb_temp_23.1C_liq_temp_21.1C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 7.593 V/m; **Power Drift = 0.00187 dB**

Averaged SAR: SAR(1g) = 0.357 W/kg; SAR(10g) = 0.217 W/kg
Maximum value of SAR (interpolated) = 0.563 W/kg

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited



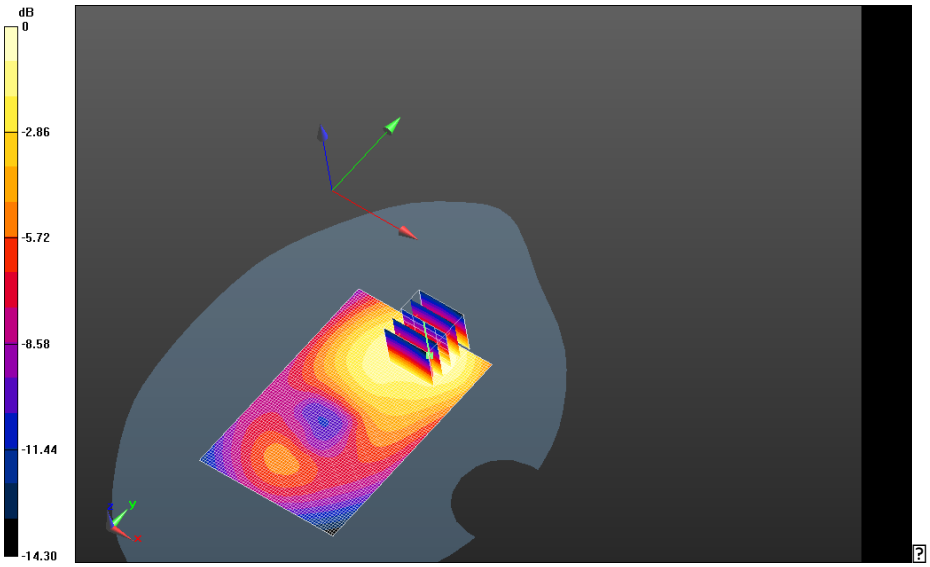
0 dB = 0.417 W/kg = -3.80 dBW/kg

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited

Body Worn MSL - GPRS 1900/Holster Device Back - GPRS_1900_2-slot_chan661_amb_temp_23.2C_liq_temp_21.1C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 6.242 V/m; **Power Drift = 0.032 dB**

Body Worn MSL - GPRS 1900/Holster Device Back - GPRS_1900_2-slot_chan661_amb_temp_23.2C_liq_temp_21.1C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 6.242 V/m; **Power Drift = 0.032 dB**

Averaged SAR: SAR(1g) = 0.204 W/kg; SAR(10g) = 0.127 W/kg
Maximum value of SAR (interpolated) = 0.322 W/kg



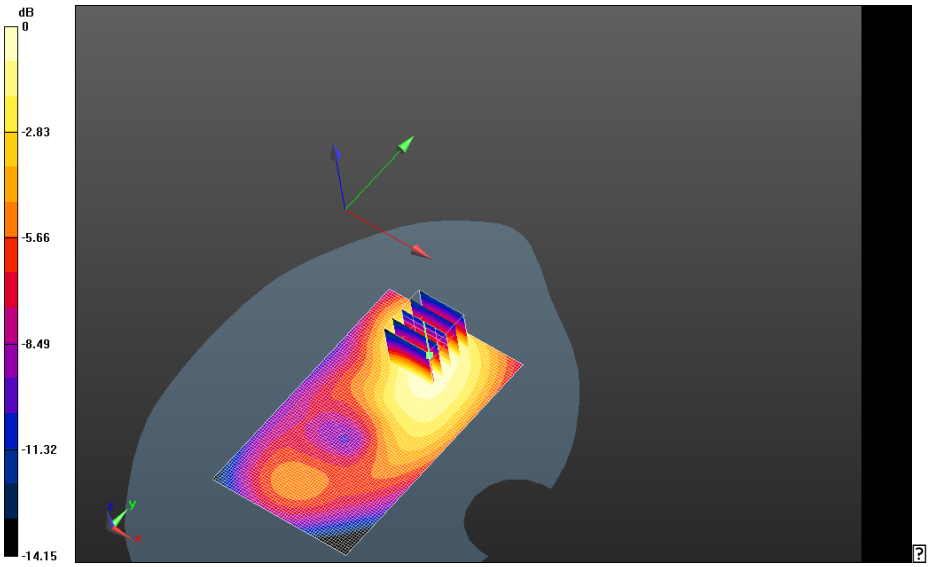
0 dB = 0.417 W/kg = -3.80 dBW/kg

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited

Body Worn MSL - GPRS 1900/Holster Device Front - GPRS_1900_2-slot_chan661_amb_temp_23.2C_liq_temp_21.1C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 4.653 V/m; **Power Drift = 0.034 dB**

Body Worn MSL - GPRS 1900/Holster Device Front - GPRS_1900_2-slot_chan661_amb_temp_23.2C_liq_temp_21.1C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 4.653 V/m; **Power Drift = 0.034 dB**

Averaged SAR: SAR(1g) = 0.148 W/kg; SAR(10g) = 0.0948 W/kg
Maximum value of SAR (interpolated) = 0.222 W/kg



0 dB = 0.241 W/kg = -6.18 dBW/kg

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited

UMTS Band II

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited

Date: 4/8/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 333CB445

Configuration: Body Worn MSL - UMTS Band II

Communication System: WCDMA FDD II; Communication System Band: UMTS FDD II; Frequency: 1880 MHz
Medium Parameters used: f=1880 MHz; σ = 1.515 S/m; ε_r = 50.915; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

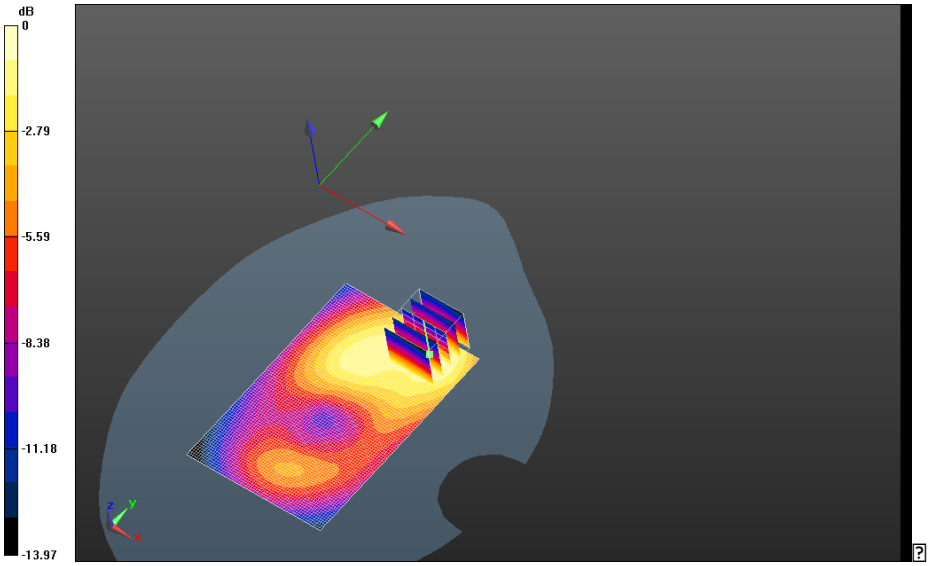
- Probe: ES3DV3 - SN3225; ConvF: (5.04,5.04,5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Body Worn MSL - UMTS Band II/15mm Device Back - UMTS_II_chan9400_amb_temp_23.4C_liq_temp_21.3C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 9.563 V/m; **Power Drift = 0.018 dB**

Body Worn MSL - UMTS Band II/15mm Device Back - UMTS_II_chan9400_amb_temp_23.4C_liq_temp_21.3C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 5.601 V/m; **Power Drift = 0.018 dB**

Averaged SAR: SAR(1g) = 0.551 W/kg; SAR(10g) = 0.341 W/kg
Maximum value of SAR (interpolated) = 0.853 W/kg

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited



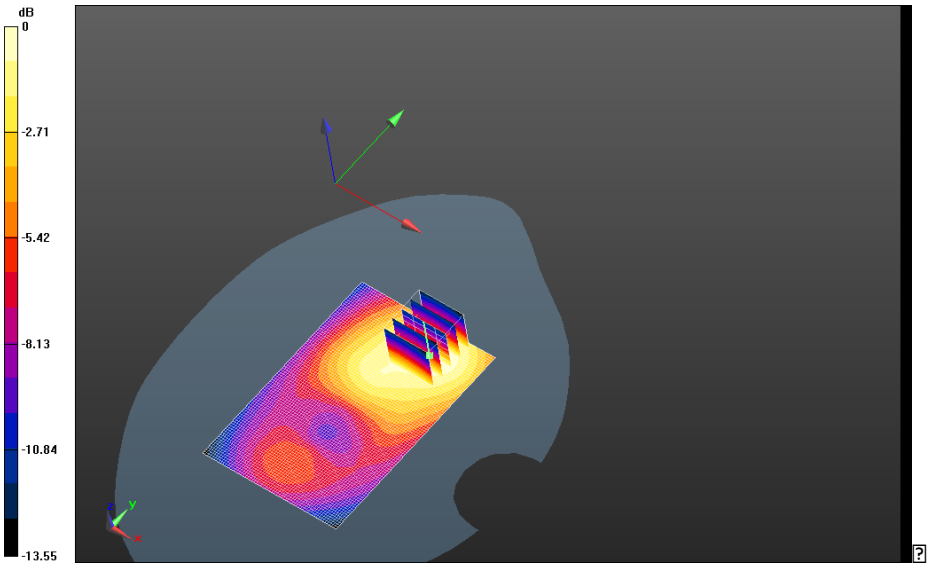
0 dB = 0.646 W/kg = -1.90 dBW/kg

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited

Body Worn MSL - UMTS Band II/Holster Device Back - UMTS_II_chan9400_amb_temp_23.3C_liq_temp_21.3C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 9.472 V/m; **Power Drift = 0.087 dB**

Body Worn MSL - UMTS Band II/Holster Device Back - UMTS_II_chan9400_amb_temp_23.3C_liq_temp_21.3C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 16.576 V/m; **Power Drift = 0.087 dB**

Averaged SAR: SAR(1g) = 0.330 W/kg; SAR(10g) = 0.208 W/kg
Maximum value of SAR (interpolated) = 0.514 W/kg



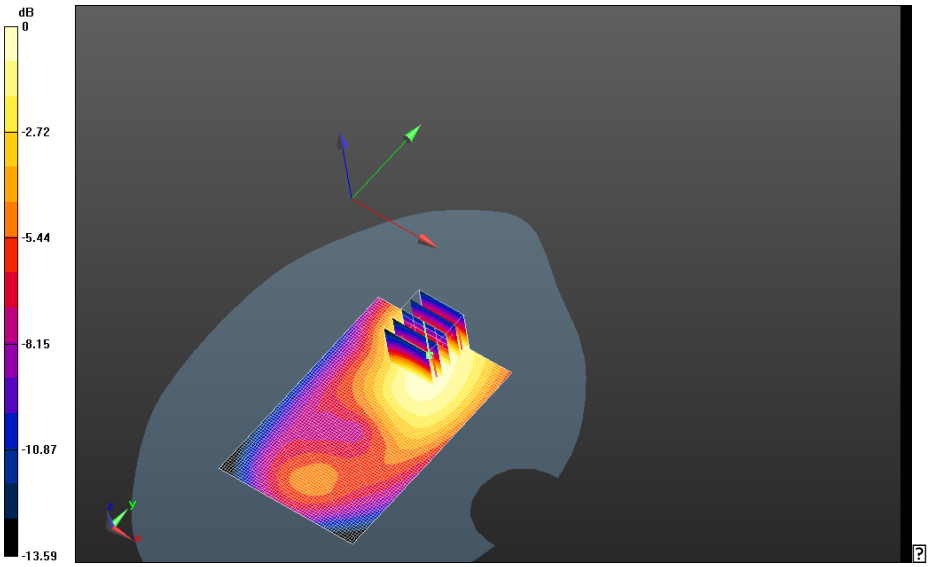
0 dB = 0.646 W/kg = -1.90 dBW/kg

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited

Body Worn MSL - UMTS Band II/Holster Device Front - UMTS_II_chan9400_amb_temp_23.3C_liq_temp_21.3C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.391 V/m; **Power Drift = -0.040 dB**

Body Worn MSL - UMTS Band II/Holster Device Front - UMTS_II_chan9400_amb_temp_23.3C_liq_temp_21.3C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 14.084 V/m; **Power Drift = -0.040 dB**

Averaged SAR: SAR(1g) = 0.238 W/kg; SAR(10g) = 0.153 W/kg
Maximum value of SAR (interpolated) = 0.358 W/kg



0 dB = 0.385 W/kg = -4.15 dBW/kg

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited

CDMA 1900

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited

Date: 4/11/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 333CB445

Configuration: Body Worn MSL - CDMA 1900

Communication System: CDMA 1900; Communication System Band: CDMA 2000 PCS;
Frequency: 1880 MHz
Medium Parameters used: f=1880 MHz; σ = 1.547 S/m; ε_r = 50.834; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

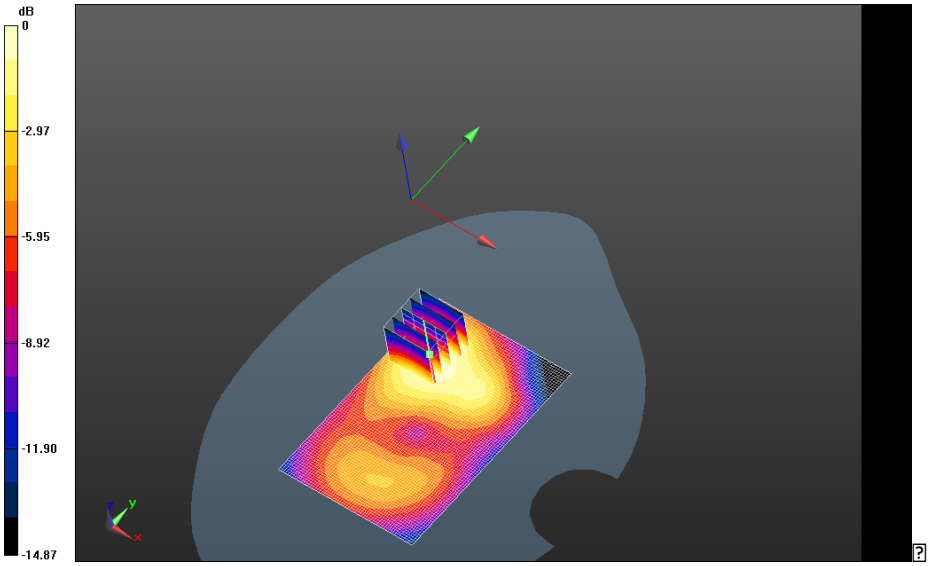
- Probe: ES3DV3 - SN3225; ConvF: (5.04,5.04,5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Body Worn MSL - CDMA 1900/15mm Device Back - CDMA1900_chan600_amb_temp_23.2C_liq_temp_21.7C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.511 W/kg

Body Worn MSL - CDMA 1900/15mm Device Back - CDMA1900_chan600_amb_temp_23.2C_liq_temp_21.7C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 9.063 V/m; **Power Drift = -0.00126 dB**

Averaged SAR: SAR(1g) = 0.423 W/kg; SAR(10g) = 0.256 W/kg
Maximum value of SAR (interpolated) = 0.688 W/kg

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited



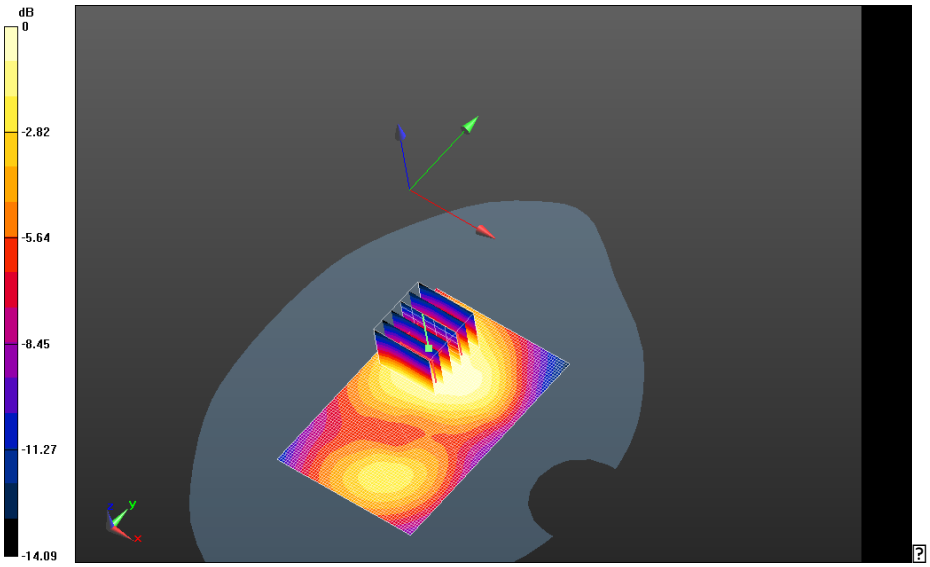
0 dB = 0.510 W/kg = -2.92 dBW/kg

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited

Body Worn MSL - CDMA 1900/Holster Device Back - CDMA1900_chan600_amb_temp_23.2C_liq_temp_21.7C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.333 W/kg

Body Worn MSL - CDMA 1900/Holster Device Back - CDMA1900_chan600_amb_temp_23.2C_liq_temp_21.7C/Zoom Scan (26x26x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 10.947 V/m; **Power Drift = -0.137 dB**

Averaged SAR: SAR(1g) = 0.283 W/kg; SAR(10g) = 0.179 W/kg
Maximum value of SAR (interpolated) = 0.451 W/kg



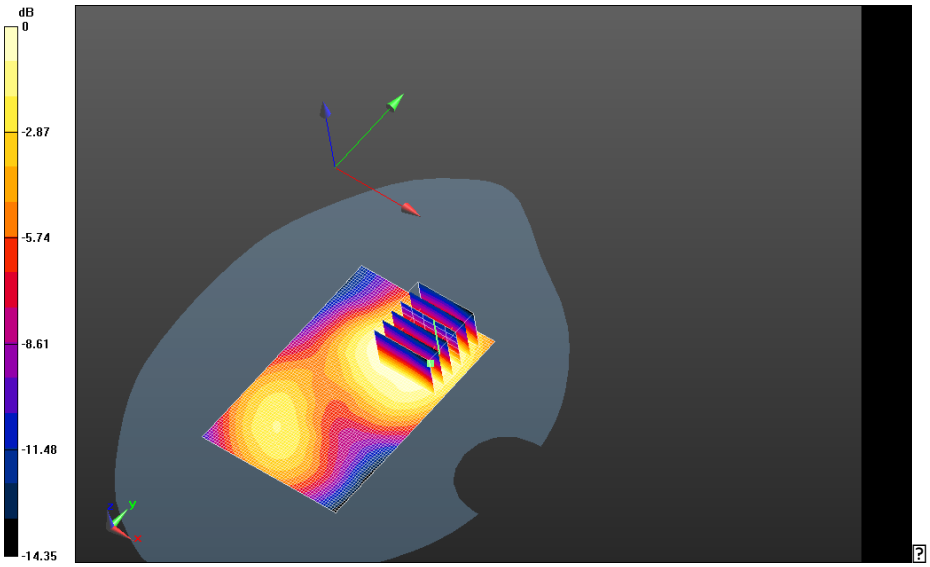
0 dB = 0.510 W/kg = -2.92 dBW/kg

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited

Body Worn MSL - CDMA 1900/Holster Device Front - CDMA1900_chan600_amb_temp_23.2C_liq_temp_21.7C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.256 W/kg

Body Worn MSL - CDMA 1900/Holster Device Front - CDMA1900_chan600_amb_temp_23.2C_liq_temp_21.7C/Zoom Scan (26x26x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 8.829 V/m; **Power Drift = -0.040 dB**

Averaged SAR: SAR(1g) = 0.212 W/kg; SAR(10g) = 0.135 W/kg
Maximum value of SAR (interpolated) = 0.342 W/kg



0 dB = 0.333 W/kg = -4.78 dBW/kg

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited

802.11b

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited

Date: 5/1/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 333CB445

Configuration: Body Worn MSL - 802.11b

Communication System: 802.11 b (2450); Communication System Band: 802.11 b; Frequency: 2437 MHz
Medium Parameters used: f=2437 MHz; σ = 1.917 S/m; ε_r = 50.561; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (4.35,4.35,4.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

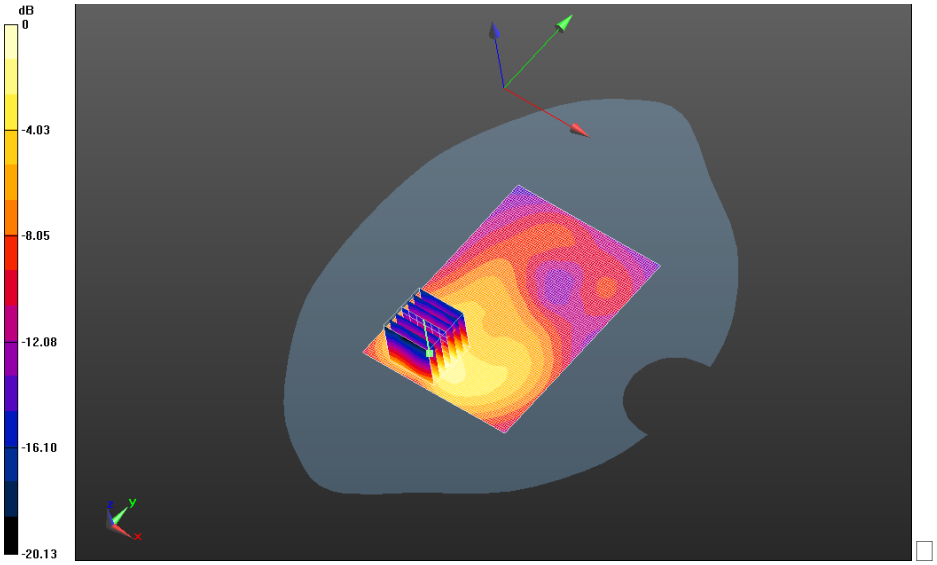
Body Worn MSL - 802.11b/15mm Device Back - 802.11b_chan6_amb_temp_23.1C_liq_temp_21.0C/Area Scan (81x111x1):
Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.222 W/kg

Body Worn MSL - 802.11b/15mm Device Back - 802.11b_chan6_amb_temp_23.1C_liq_temp_21.0C/Zoom Scan (31x31x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 4.898 V/m; **Power Drift = -0.055 dB**

Averaged SAR: SAR(1g) = 0.183 W/kg; SAR(10g) = 0.0944 W/kg
Maximum value of SAR (interpolated) = 0.357 W/kg

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited



0 dB = 0.233 W/kg = -6.33 dBW/kg

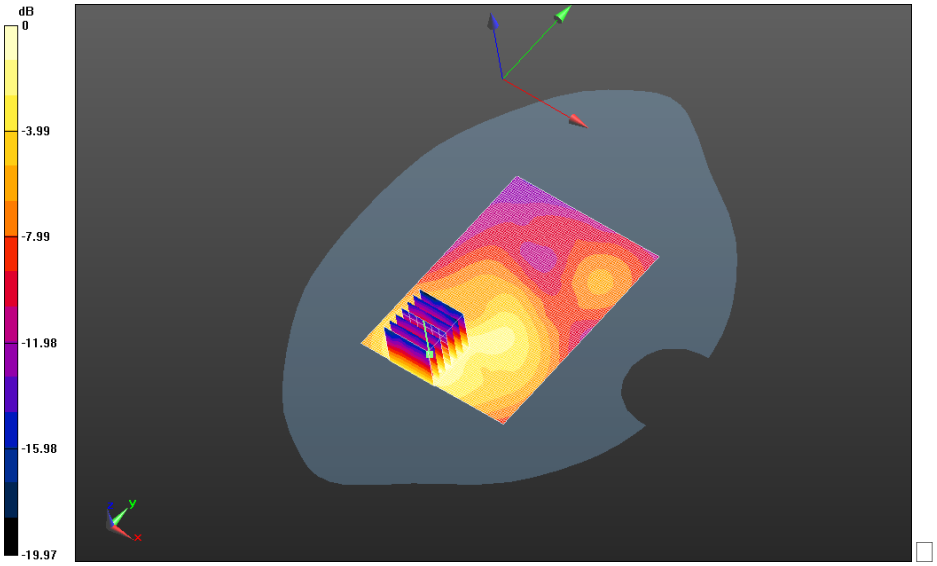
This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited

Body Worn MSL - 802.11b/Holster Device Back - 802.11b_chan6_amb_temp_23.1C_liq_temp_21.0C/Area Scan (81x111x1):
Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.111 W/kg

Body Worn MSL - 802.11b/Holster Device Back - 802.11b_chan6_amb_temp_23.1C_liq_temp_21.0C/Zoom Scan (31x31x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 4.067 V/m; **Power Drift = -0.061 dB**

Averaged SAR: SAR(1g) = 0.0892 W/kg; SAR(10g) = 0.0503 W/kg
Maximum value of SAR (interpolated) = 0.162 W/kg



0 dB = 0.233 W/kg = -6.33 dBW/kg

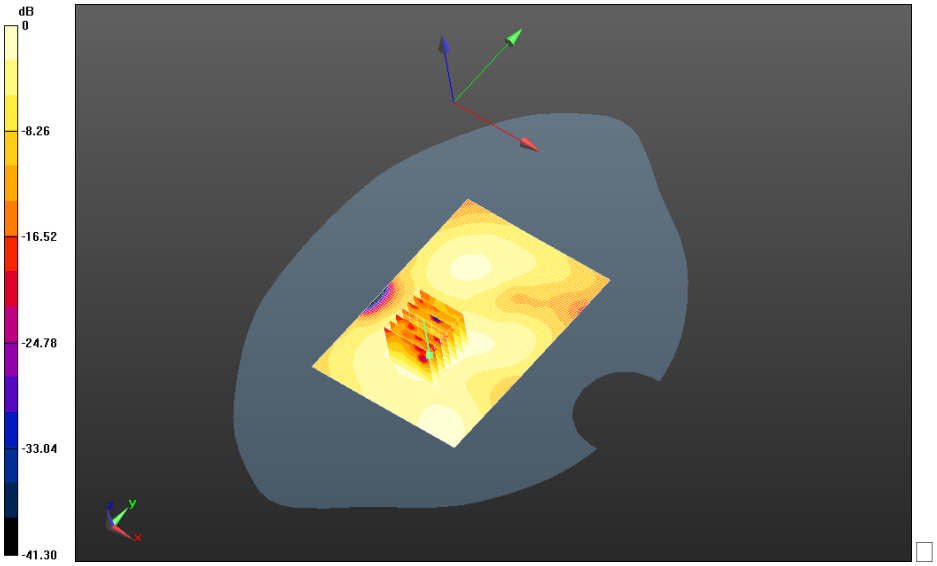
This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited

Body Worn MSL - 802.11b/Holster Device Front - 802.11b_chan6_amb_temp_23.8C_liq_temp_21.5C/Area Scan (81x111x1):
Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0269 W/kg

Body Worn MSL - 802.11b/Holster Device Front - 802.11b_chan6_amb_temp_23.8C_liq_temp_21.5C/Zoom Scan (31x31x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 2.355 V/m; **Power Drift = 0.079 dB**

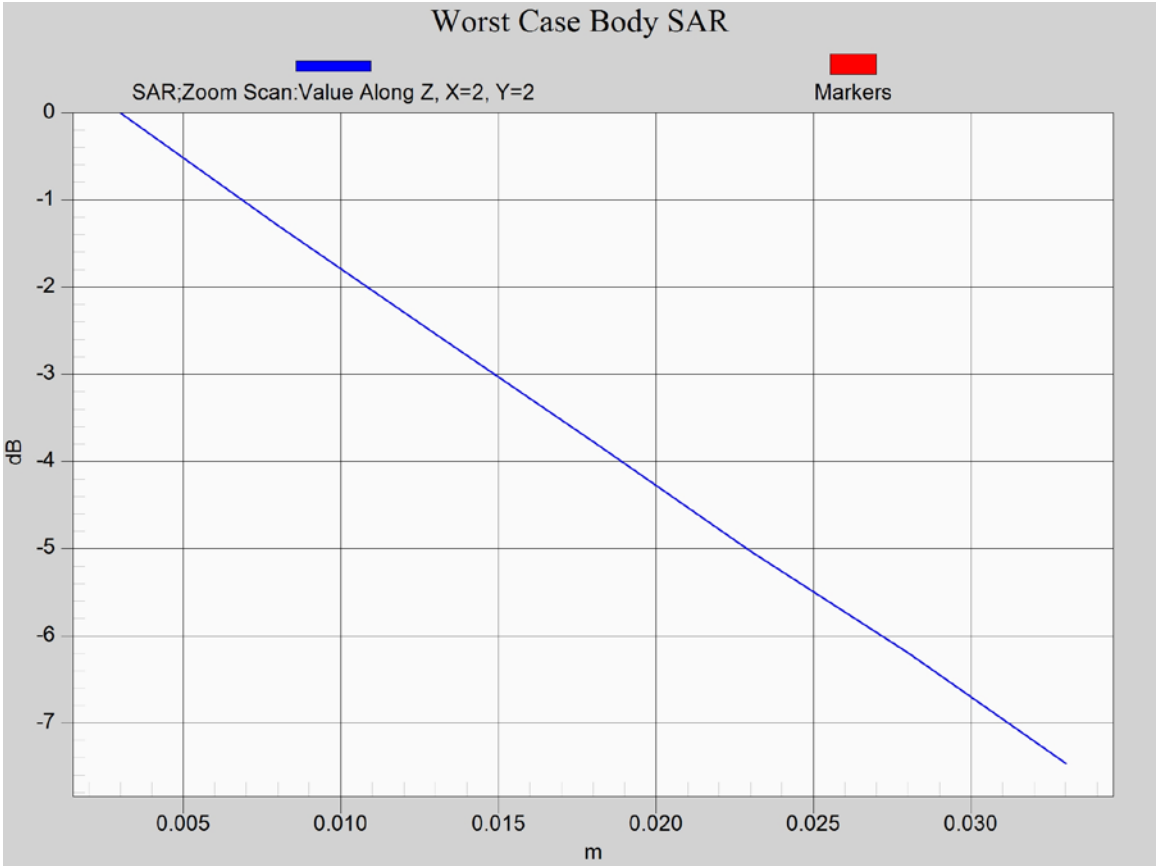
Averaged SAR: SAR(1g) = 0.0220 W/kg; SAR(10g) = 0.0121 W/kg
Maximum value of SAR (interpolated) = 0.0395 W/kg



0 dB = 0.109 W/kg = -9.63 dBW/kg

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited

Z axis plot for the worst case body configuration



This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-20133, RIM Testing Services, a division of Research In Motion Limited