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APPENDIX C2: SAR DISTRIBUTION PLOTS FOR HOT SPOT CONFIGURATION



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GPRS 850 (RFX101LW)

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Date: 6/25/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 333E285E

Configuration: Mobile Hot Spot MSL - GPRS 850

Communication System: GSM 850; Communication System Band: GSM 850; Frequency: 836.8 MHz

Medium Parameters used: $f=836.8$ MHz; $\sigma = 0.956$ S/m; $\epsilon_r = 52.829$; $\rho = 1.000$ g/cm³

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 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Mobile Hot Spot MSL - GPRS 850/10mm Device Back -

GSM850_chan190_amb_temp_22.8C_liq_temp_21.1C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 22.695 V/m; **Power Drift = 0.075 dB**

Fast SAR: SAR(1g) = 0.641 W/kg; SAR(10g) = 0.442 W/kg

Maximum value of SAR (interpolated) = 0.717 W/kg

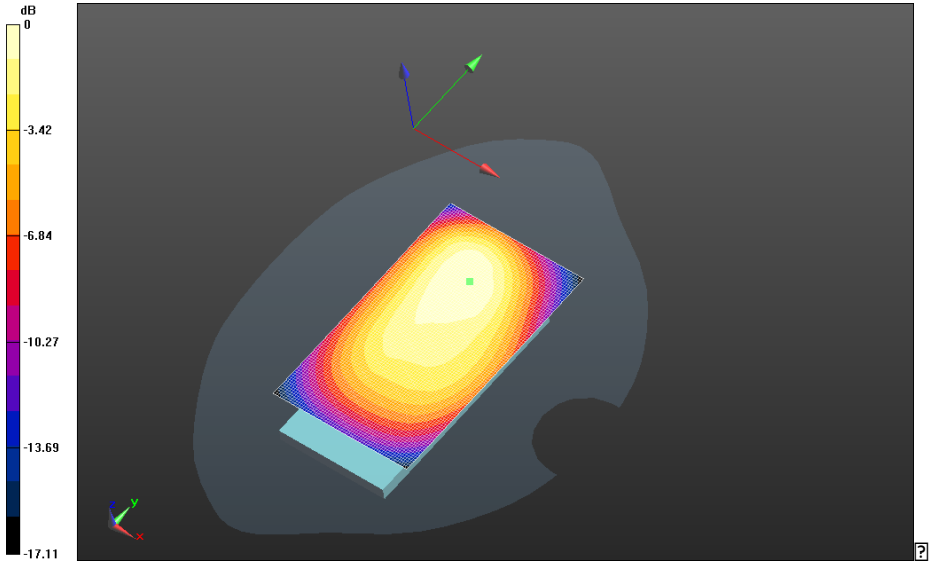
Author Data
Andrew Becker

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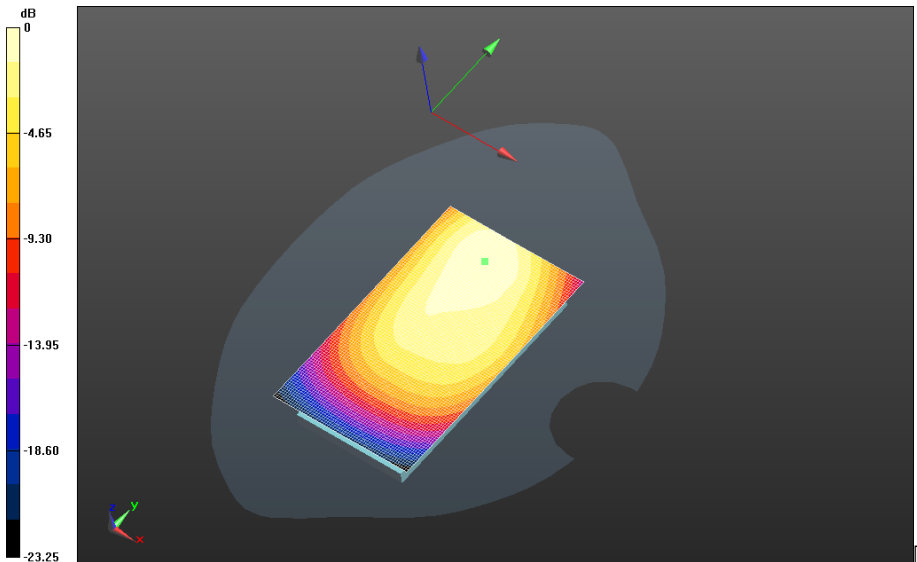


0 dB = 0.717 W/kg = -1.44 dBW/kg


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Mobile Hot Spot MSL - GPRS 850/10mm Device Back -
GPRS850_chan190_amb_temp_22.8C_liq_temp_21.1C/Area Scan (61x101x1): Interpolated
 grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 24.890 V/m; **Power Drift = 0.044 dB**

Fast SAR: SAR(1g) = 0.778 W/kg; SAR(10g) = 0.532 W/kg
 Maximum value of SAR (interpolated) = 0.887 W/kg



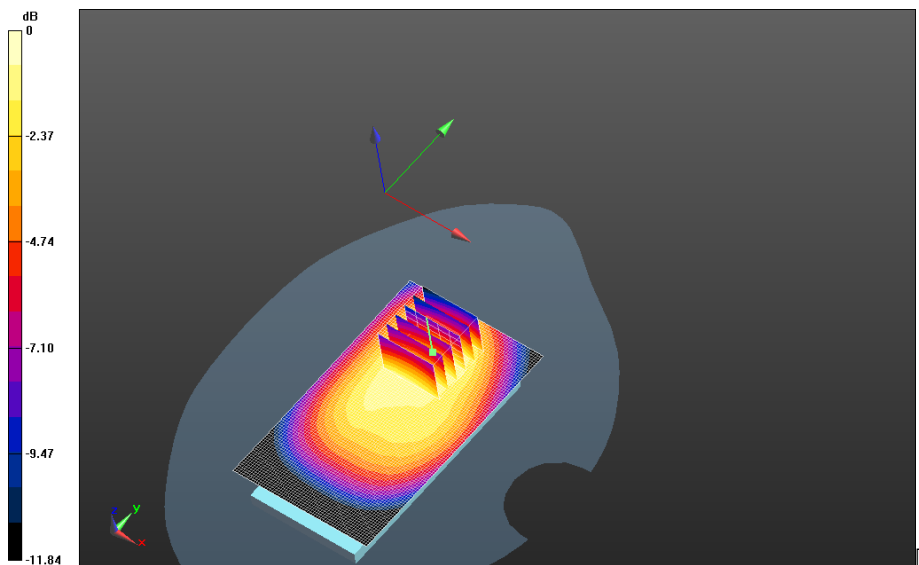
0 dB = 0.717 W/kg = -1.44 dBW/kg

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Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS850_3-Slots_chan128_amb_temp_22.8C_liq_temp_21.1C/Area Scan (61x101x1): Interpolated grid:
 dx=1.500 mm, dy=1.500 mm
 Reference Value = 26.570 V/m; **Power Drift = -0.026 dB**

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS850_3-Slots_chan128_amb_temp_22.8C_liq_temp_21.1C/Zoom Scan (26x26x36)/Cube 0:
 Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 26.570 V/m; **Power Drift = -0.026 dB**

Averaged SAR: SAR(1g) = 0.783 W/kg; SAR(10g) = 0.558 W/kg
 Maximum value of SAR (interpolated) = 1.07 W/kg



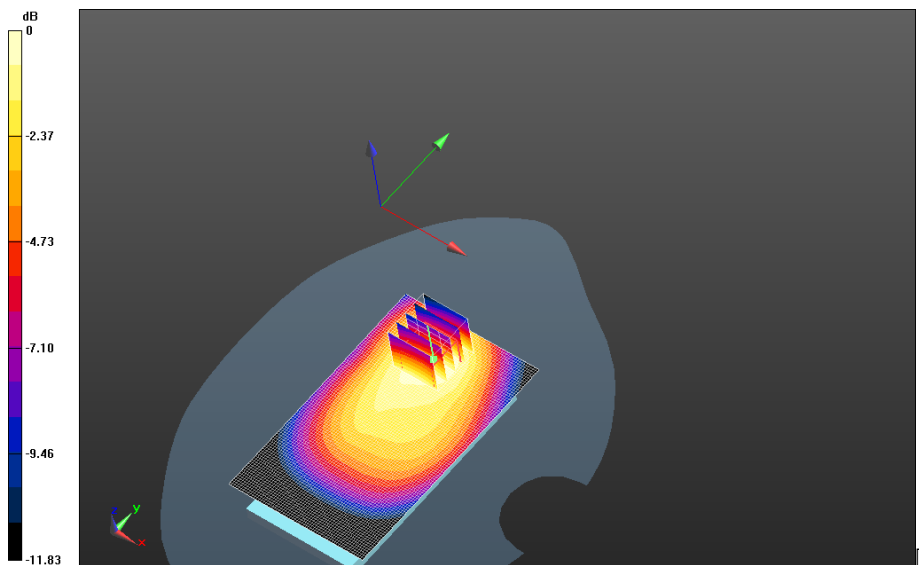
0 dB = 0.887 W/kg = -0.52 dBW/kg

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Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS850_3-Slots_chan190_amb_temp_22.8C_liq_temp_21.1C/Area Scan (61x101x1): Interpolated grid:
 dx=1.500 mm, dy=1.500 mm
 Reference Value = 28.173 V/m; **Power Drift = -0.062 dB**

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS850_3-Slots_chan190_amb_temp_22.8C_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 = 28.173 V/m; **Power Drift = -0.062 dB**

Averaged SAR: SAR(1g) = 0.971 W/kg; SAR(10g) = 0.687 W/kg
 Maximum value of SAR (interpolated) = 1.33 W/kg



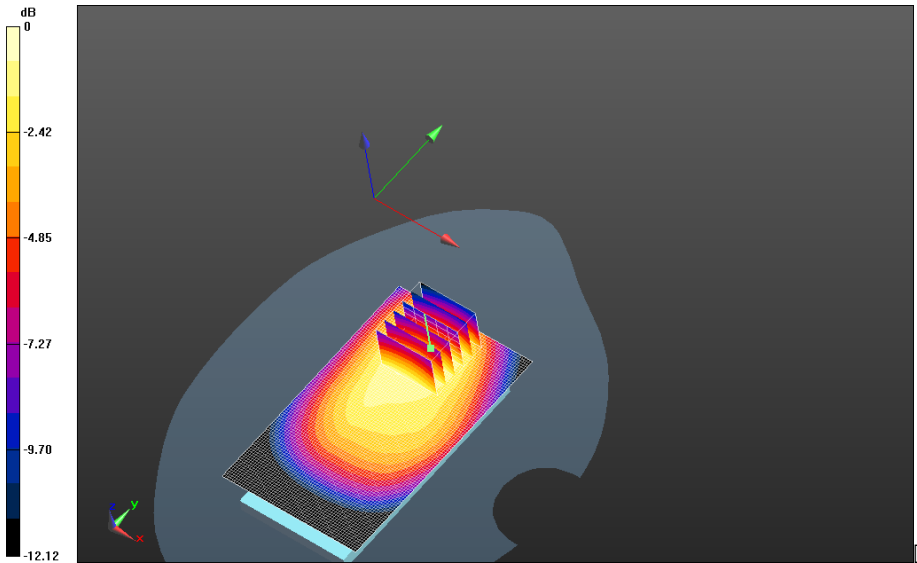
0 dB = 0.888 W/kg = -0.52 dBW/kg

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Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS850_3-Slots_chan190_amb_temp_22.8C_liq_temp_21.1C_2nd/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 27.761 V/m; **Power Drift = -0.038 dB**

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS850_3-Slots_chan190_amb_temp_22.8C_liq_temp_21.1C_2nd/Zoom Scan (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 27.761 V/m; **Power Drift = -0.038 dB**

Averaged SAR: SAR(1g) = 0.958 W/kg; SAR(10g) = 0.677 W/kg
 Maximum value of SAR (interpolated) = 1.32 W/kg

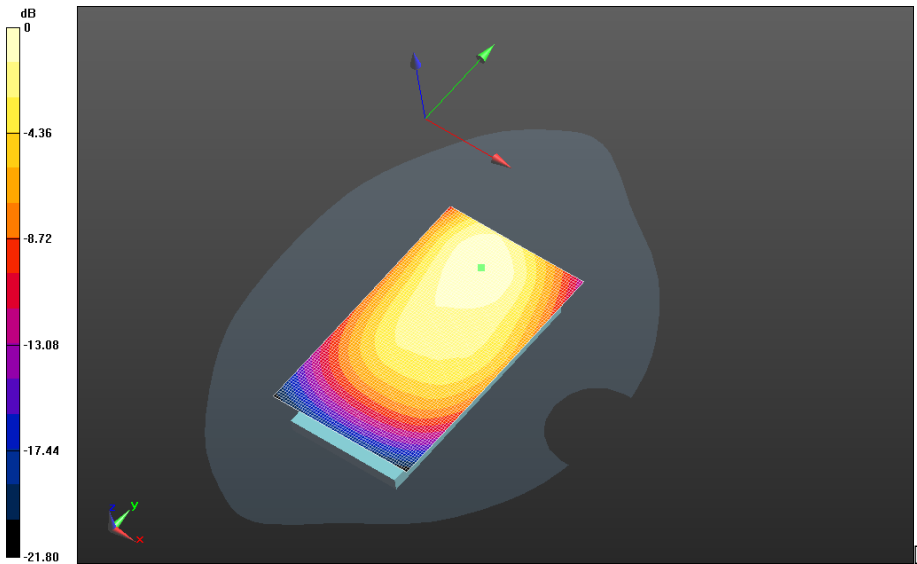


0 dB = 1.10 W/kg = 0.41 dBW/kg


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Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS850_3-Slots_chan251_amb_temp_22.8C_liq_temp_21.1C/Area Scan (61x101x1): Interpolated grid:
 dx=1.500 mm, dy=1.500 mm
 Reference Value = 26.048 V/m; **Power Drift = 0.013 dB**

Fast SAR: SAR(1g) = 0.918 W/kg; SAR(10g) = 0.630 W/kg
 Maximum value of SAR (interpolated) = 1.04 W/kg

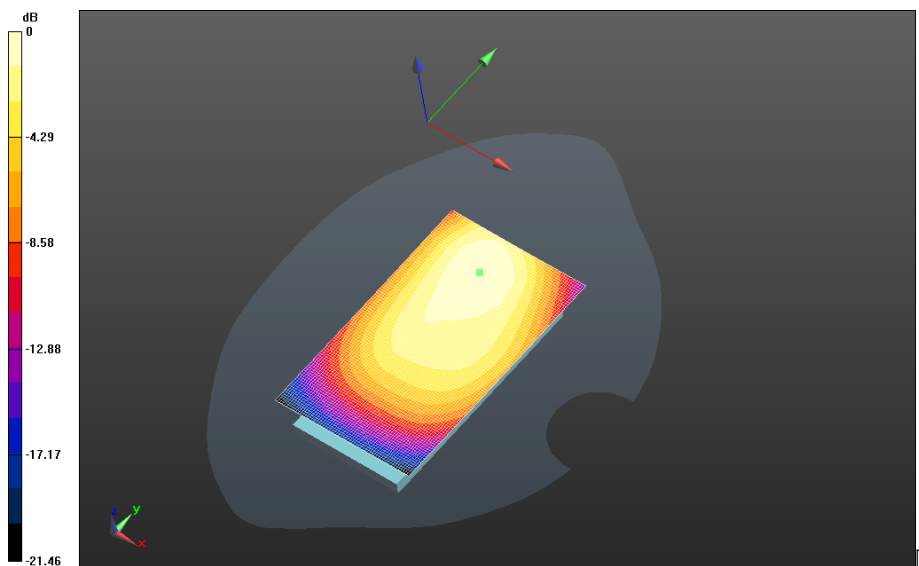


0 dB = 1.08 W/kg = 0.33 dBW/kg


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Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS850_4-Slots_chan190_amb_temp_22.8C_liq_temp_21.1C/Area Scan (61x101x1): Interpolated grid:
 dx=1.500 mm, dy=1.500 mm
 Reference Value = 25.701 V/m; **Power Drift = -0.043 dB**

Fast SAR: SAR(1g) = 0.810 W/kg; SAR(10g) = 0.559 W/kg
 Maximum value of SAR (interpolated) = 0.917 W/kg



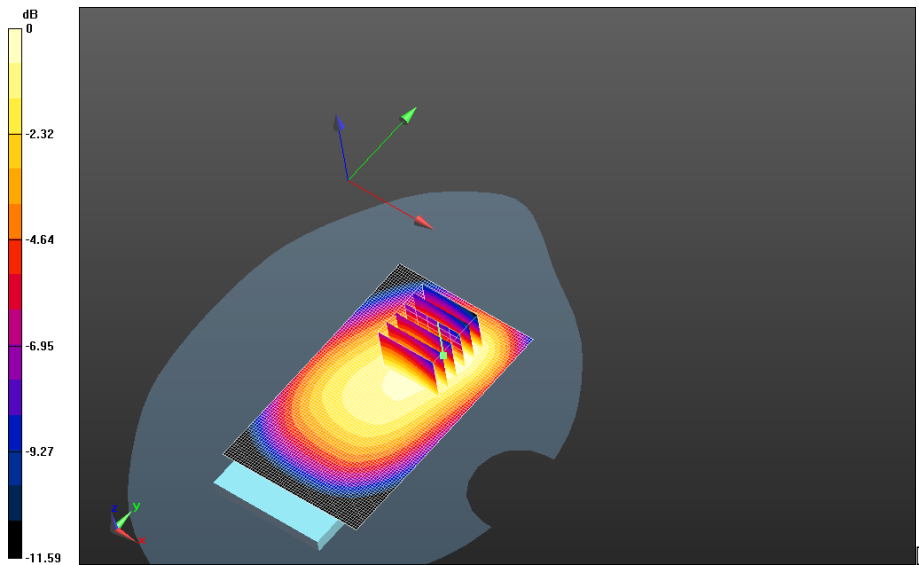
0 dB = 1.04 W/kg = 0.17 dBW/kg

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Mobile Hot Spot MSL - GPRS 850/10mm Device Front -
GPRS850_chan190_amb_temp_23.6C_liq_temp_22.5C/Area Scan (61x101x1): Interpolated
 grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 27.055 V/m; **Power Drift = -0.017 dB**

Mobile Hot Spot MSL - GPRS 850/10mm Device Front -
GPRS850_chan190_amb_temp_23.6C_liq_temp_22.5C/Zoom Scan (26x26x36)/Cube 0:
 Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 27.055 V/m; **Power Drift = -0.017 dB**

Averaged SAR: SAR(1g) = 0.749 W/kg; SAR(10g) = 0.548 W/kg
 Maximum value of SAR (interpolated) = 0.998 W/kg

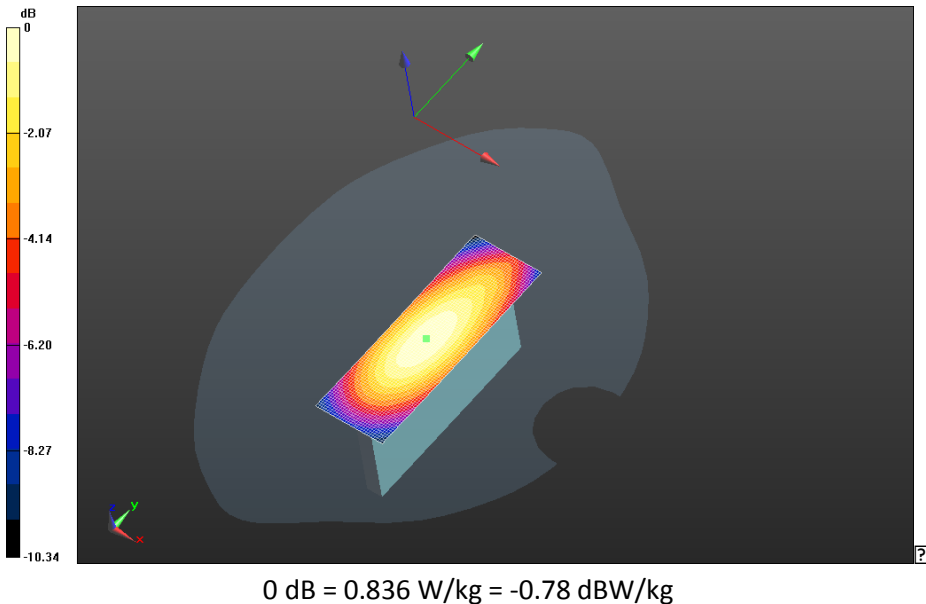



0 dB = 0.917 W/kg = -0.38 dBW/kg

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Mobile Hot Spot MSL - GPRS 850/10mm Device Left -
GPRS850_chan190_amb_temp_22.9C_liq_temp_21.9C/Area Scan (31x91x1): Interpolated grid:
 dx=1.500 mm, dy=1.500 mm
 Reference Value = 25.661 V/m; **Power Drift = 0.079 dB**

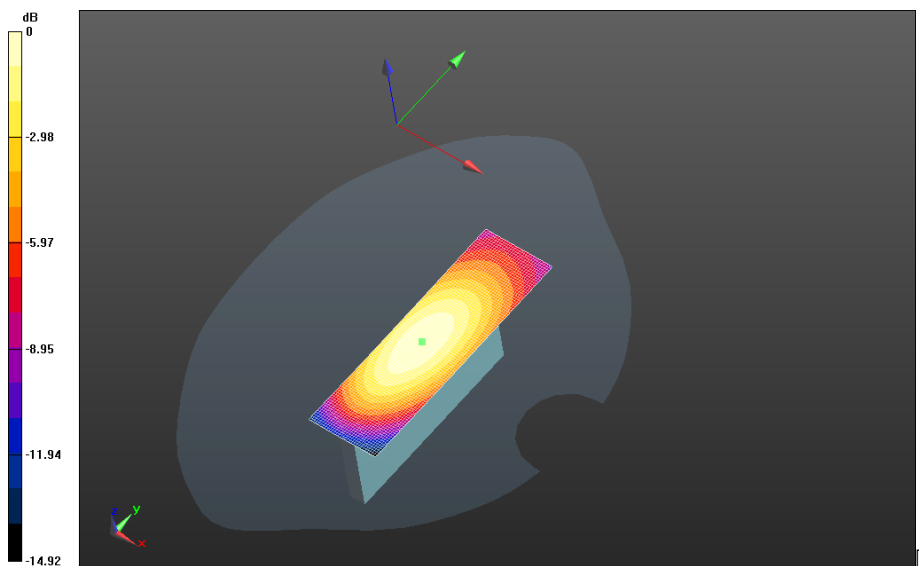
Fast SAR: SAR(1g) = 0.516 W/kg; SAR(10g) = 0.347 W/kg
 Maximum value of SAR (interpolated) = 0.586 W/kg




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Mobile Hot Spot MSL - GPRS 850/10mm Device Right -
GPRS850_chan190_amb_temp_22.8C_liq_temp_21.1C/Area Scan (31x101x1): Interpolated
 grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 22.276 V/m; **Power Drift = 0.065 dB**

Fast SAR: SAR(1g) = 0.394 W/kg; SAR(10g) = 0.265 W/kg
 Maximum value of SAR (interpolated) = 0.452 W/kg

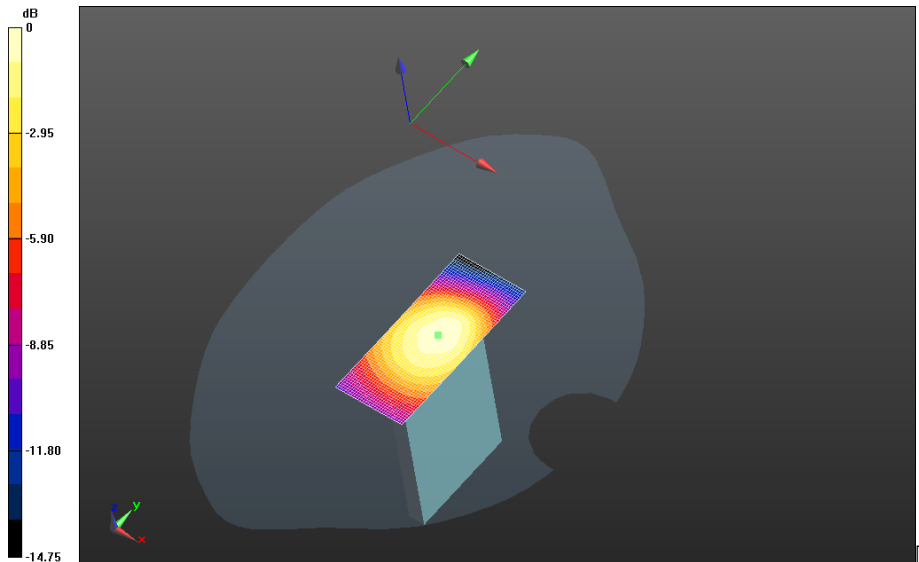


0 dB = 0.586 W/kg = -2.32 dBW/kg

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Mobile Hot Spot MSL - GPRS 850/10mm Device Bottom -
GPRS850_chan190_amb_temp_22.8C_liq_temp_21.1C/Area Scan (31x71x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 17.832 V/m; **Power Drift = -0.00535 dB**

Fast SAR: SAR(1g) = 0.268 W/kg; SAR(10g) = 0.175 W/kg
Maximum value of SAR (interpolated) = 0.315 W/kg



0 dB = 0.452 W/kg = -3.45 dBW/kg



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UMTS Band V (RFX101LW)

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Date: 6/25/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 333E285E

Configuration: Mobile Hot Spot 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; $\sigma = 0.955$ S/m; $\epsilon_r = 52.833$; $\rho = 1.000$ g/cm³

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 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Mobile Hot Spot MSL - UMTS band V/10mm Device Back - UMTS_band

V_chan4182_amb_temp_23.5C_liq_temp_21.8C/Area Scan (61x101x1): Interpolated grid:

$dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 20.445 V/m; **Power Drift = -0.107 dB**

Mobile Hot Spot MSL - UMTS band V/10mm Device Back - UMTS_band

V_chan4182_amb_temp_23.5C_liq_temp_21.8C/Zoom Scan (26x26x36)/Cube 0: Interpolated

grid: $dx=1.500$ mm, $dy=1.500$ mm, $dz=1.000$ mm

Reference Value = 20.445 V/m; **Power Drift = -0.107 dB**

Averaged SAR: SAR(1g) = 0.497 W/kg; SAR(10g) = 0.352 W/kg

Maximum value of SAR (interpolated) = 0.679 W/kg

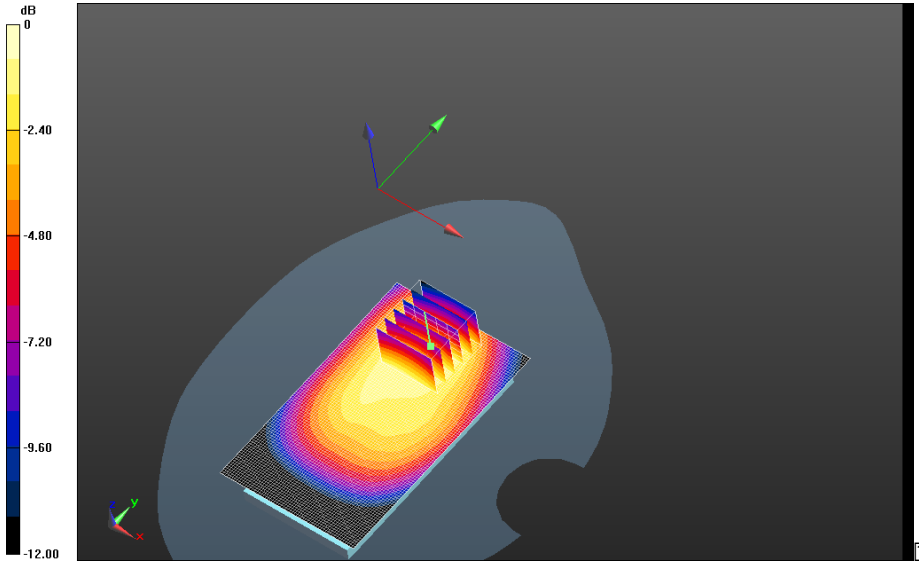
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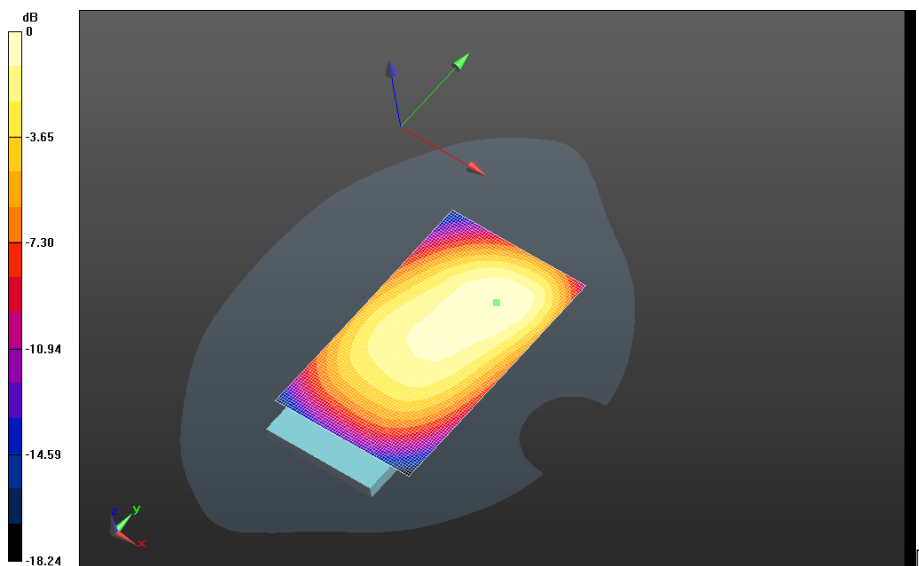


0 dB = 0.563 W/kg = -2.49 dBW/kg


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Mobile Hot Spot MSL - UMTS band V/10mm Device Front - UMTS_band V_chan4182_amb_temp_23.4C_liq_temp_21.6C/Area Scan (61x101x1): Interpolated grid:
 dx=1.500 mm, dy=1.500 mm
 Reference Value = 21.034 V/m; **Power Drift = -0.011 dB**

Fast SAR: SAR(1g) = 0.442 W/kg; SAR(10g) = 0.307 W/kg
 Maximum value of SAR (interpolated) = 0.499 W/kg



0 dB = 0.563 W/kg = -2.49 dBW/kg

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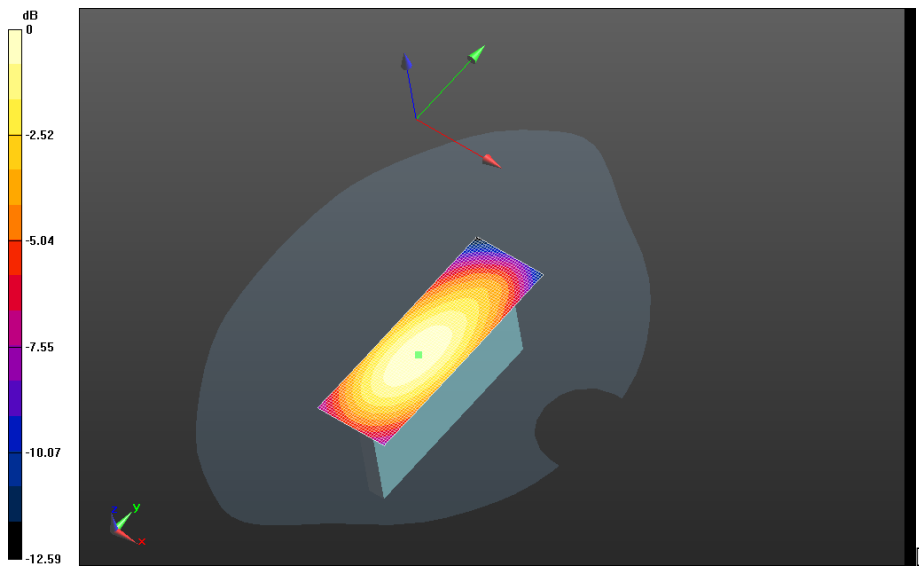
Mobile Hot Spot MSL - UMTS band V/10mm Device Left - UMTS_band

V_chan4182_amb_temp_23.2C_liq_temp_21.7C/Area Scan (31x91x1): Interpolated grid:
 dx=1.500 mm, dy=1.500 mm


Reference Value = 19.958 V/m; **Power Drift = -0.082 dB**

Fast SAR: SAR(1g) = 0.318 W/kg; SAR(10g) = 0.216 W/kg

Maximum value of SAR (interpolated) = 0.362 W/kg

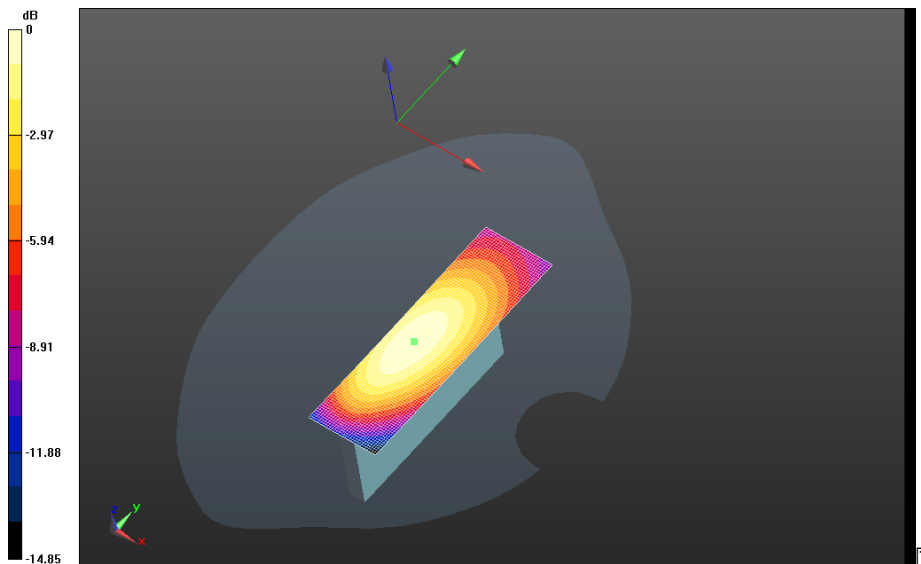


0 dB = 0.499 W/kg = -3.02 dBW/kg


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Mobile Hot Spot MSL - UMTS band V/10mm Device Right - UMTS_band V_chan4182_amb_temp_23.1C_liq_temp_21.5C/Area Scan (31x101x1): Interpolated grid:
 dx=1.500 mm, dy=1.500 mm
 Reference Value = 18.328 V/m; **Power Drift = -0.067 dB**

Fast SAR: SAR(1g) = 0.259 W/kg; SAR(10g) = 0.174 W/kg
 Maximum value of SAR (interpolated) = 0.296 W/kg

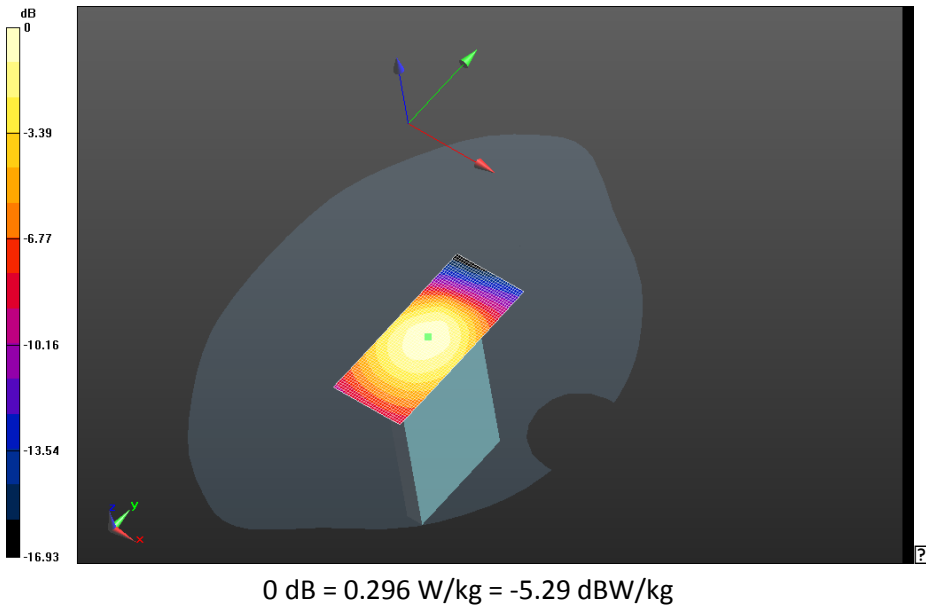


0 dB = 0.362 W/kg = -4.41 dBW/kg

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Mobile Hot Spot MSL - UMTS band V/10mm Device Bottom - UMTS_band V_chan4182_amb_temp_23.C_liq_temp_21.4C/Area Scan (31x71x1): Interpolated grid:
 dx=1.500 mm, dy=1.500 mm
 Reference Value = 14.345 V/m; **Power Drift = 0.00741 dB**

Fast SAR: SAR(1g) = 0.160 W/kg; SAR(10g) = 0.106 W/kg
 Maximum value of SAR (interpolated) = 0.191 W/kg





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GPRS 1900 (RFX101LW)

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Date: 6/24/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 333E285E

Configuration: Mobile Hot Spot MSL - GPRS 1900

Communication System: GSM 1900; Communication System Band: GSM 1900; Frequency: 1880 MHz

Medium Parameters used: $f=1880$ MHz; $\sigma = 1.532$ S/m; $\epsilon_r = 51.502$; $\rho = 1.000$ g/cm³

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 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Mobile Hot Spot MSL - GPRS 1900/10mm Device Back -

GSM1900_chan661_amb_temp_22.8C_liq_temp_21.1C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 5.885 V/m; **Power Drift = -0.026 dB**

Fast SAR: SAR(1g) = 0.650 W/kg; SAR(10g) = 0.364 W/kg

Maximum value of SAR (interpolated) = 0.816 W/kg

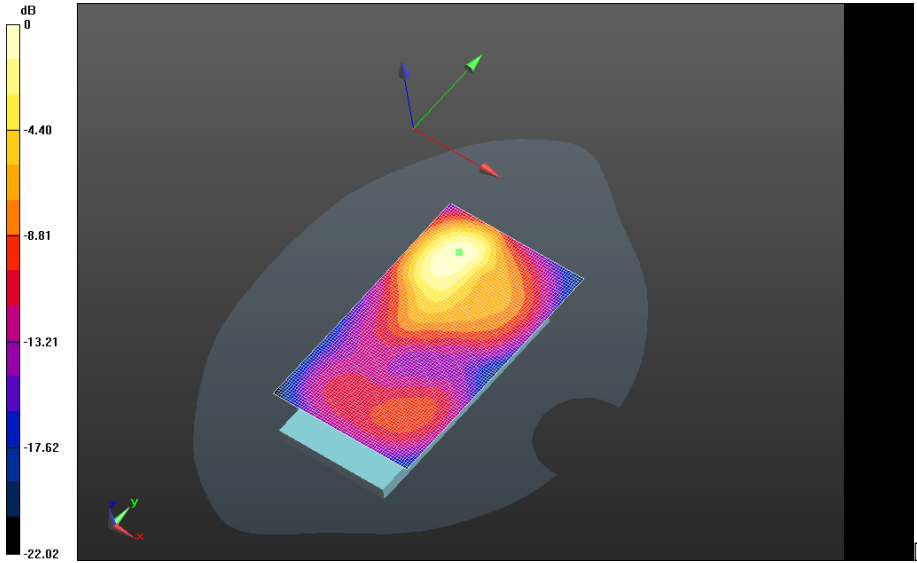
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Andrew Becker

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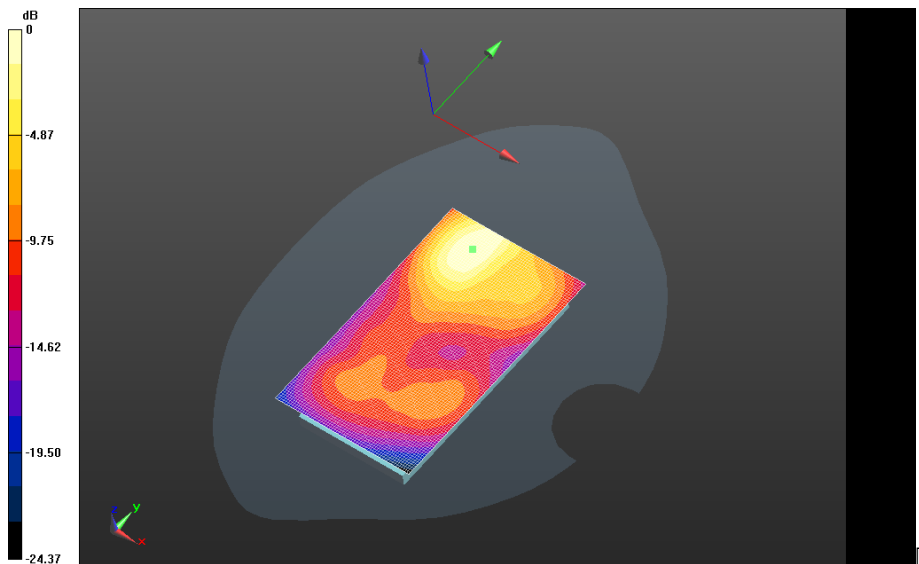


0 dB = 0.816 W/kg = -0.88 dBW/kg


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Mobile Hot Spot MSL - GPRS 1900/10mm Device Back -
GPRS1900_chan661_amb_temp_22.8C_liq_temp_21.1C/Area Scan (61x101x1): Interpolated
 grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 7.288 V/m; **Power Drift = -0.091 dB**

Fast SAR: SAR(1g) = 0.888 W/kg; SAR(10g) = 0.503 W/kg
 Maximum value of SAR (interpolated) = 1.09 W/kg

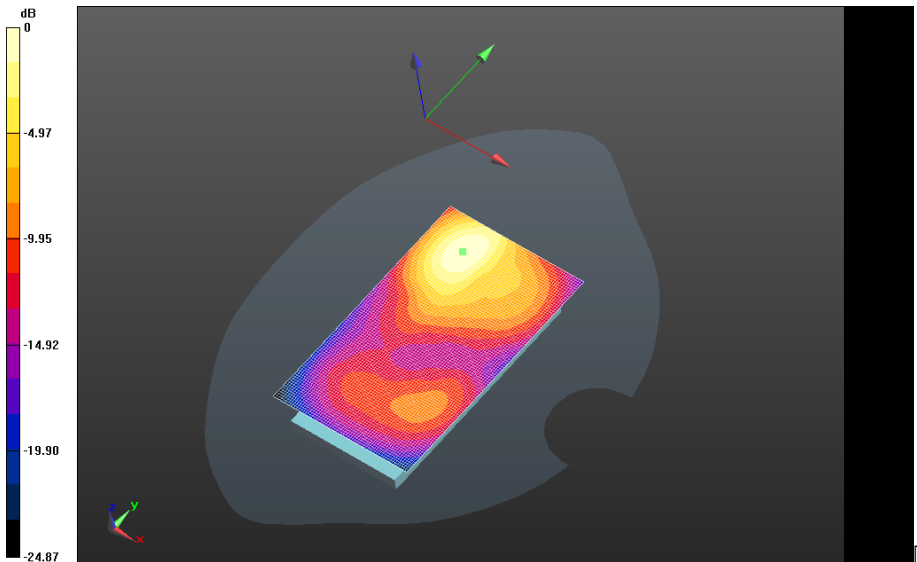


0 dB = 0.816 W/kg = -0.88 dBW/kg


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Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS1900_3-Slots_chan661_amb_temp_22.8C_liq_temp_21.1C/Area Scan (61x101x1): Interpolated grid:
 dx=1.500 mm, dy=1.500 mm
 Reference Value = 6.444 V/m; **Power Drift = 0.090 dB**

Fast SAR: SAR(1g) = 0.808 W/kg; SAR(10g) = 0.448 W/kg
 Maximum value of SAR (interpolated) = 1.01 W/kg

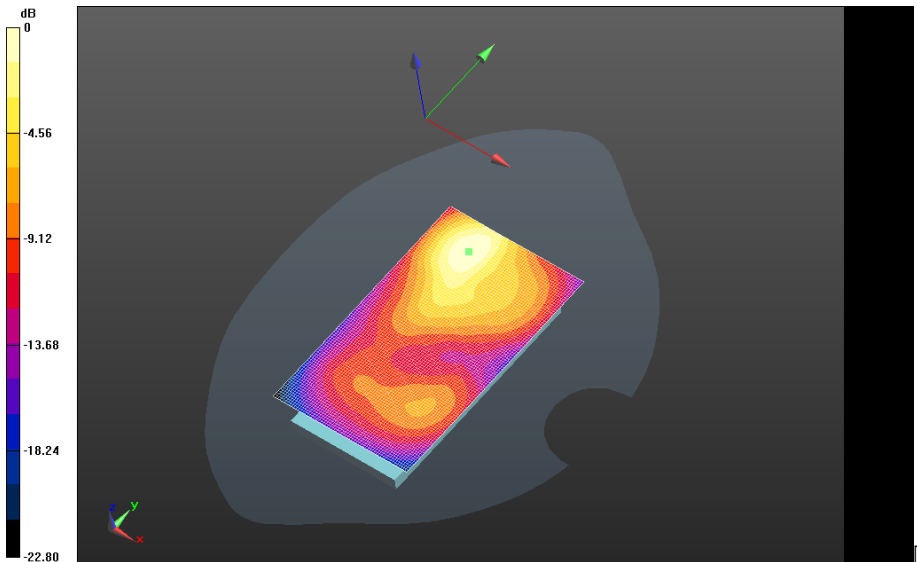


0 dB = 1.09 W/kg = 0.37 dBW/kg


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Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS1900_4-Slots_chan512_amb_temp_23.1C_liq_temp_21.1C/Area Scan (61x101x1): Interpolated grid:
 dx=1.500 mm, dy=1.500 mm
 Reference Value = 9.190 V/m; **Power Drift = 0.037 dB**

Fast SAR: SAR(1g) = 0.882 W/kg; SAR(10g) = 0.488 W/kg
 Maximum value of SAR (interpolated) = 1.10 W/kg



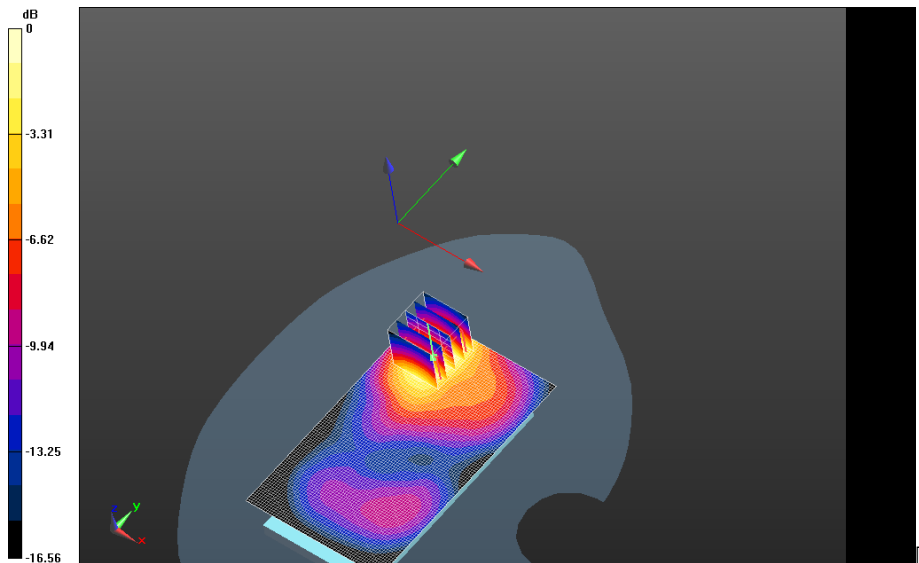
0 dB = 1.01 W/kg = 0.04 dBW/kg

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Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS1900_4-Slots_chan661_amb_temp_22.8C_liq_temp_21.1C/Area Scan (61x101x1): Interpolated grid:
 dx=1.500 mm, dy=1.500 mm
 Reference Value = 6.805 V/m; **Power Drift = 0.049 dB**

Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS1900_4-Slots_chan661_amb_temp_22.8C_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 = 6.805 V/m; **Power Drift = 0.049 dB**

Averaged SAR: SAR(1g) = 0.910 W/kg; SAR(10g) = 0.516 W/kg
 Maximum value of SAR (interpolated) = 1.48 W/kg



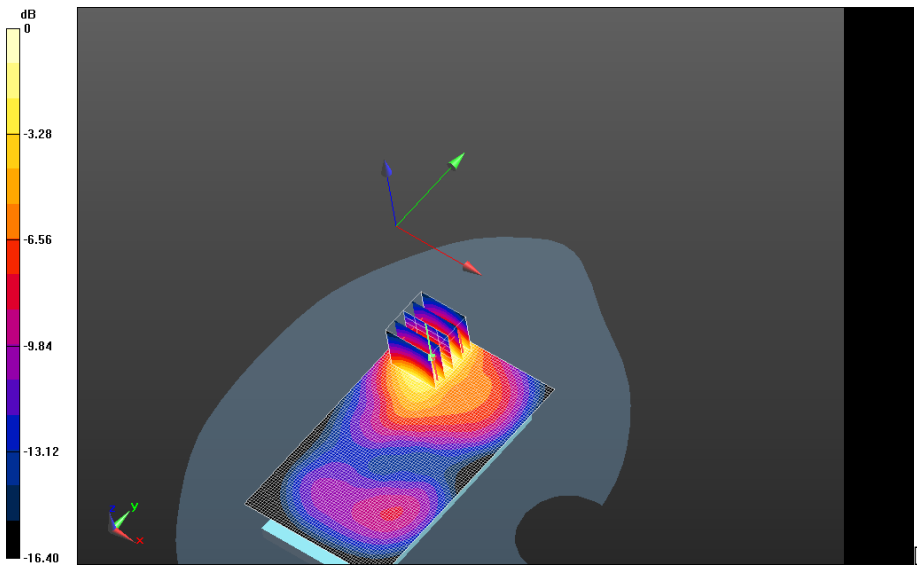
0 dB = 1.10 W/kg = 0.41 dBW/kg

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Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS1900_4-Slots_chan661_amb_temp_23.3C_liq_temp_22.2C/Area Scan (61x101x1): Interpolated grid:
 dx=1.500 mm, dy=1.500 mm
 Reference Value = 7.484 V/m; **Power Drift = 0.066 dB**

Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS1900_4-Slots_chan661_amb_temp_23.3C_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 = 7.484 V/m; **Power Drift = 0.066 dB**

Averaged SAR: SAR(1g) = 0.964 W/kg; SAR(10g) = 0.547 W/kg
 Maximum value of SAR (interpolated) = 1.61 W/kg

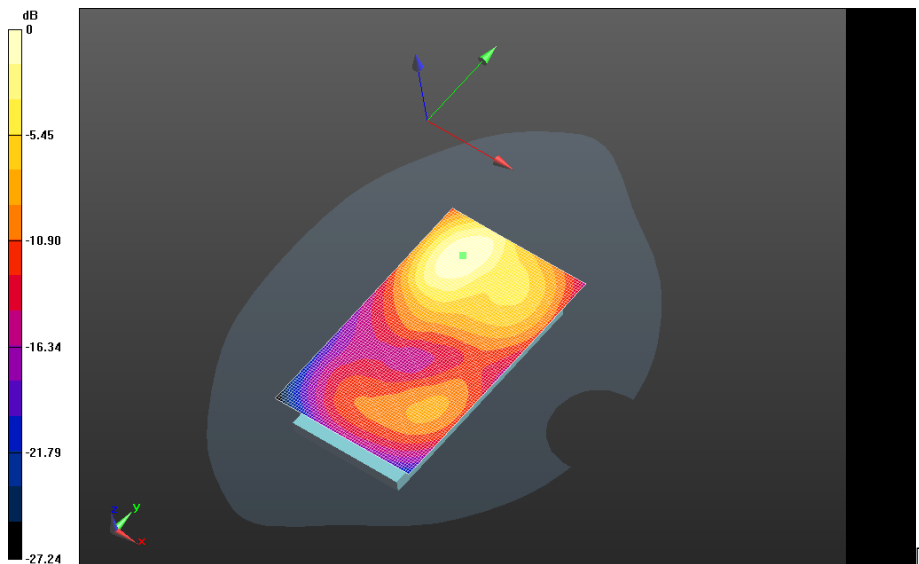


0 dB = 1.10 W/kg = 0.41 dBW/kg


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Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS1900_4-Slots_chan810_amb_temp_22.7C_liq_temp_21.1C/Area Scan (61x101x1): Interpolated grid:
 dx=1.500 mm, dy=1.500 mm
 Reference Value = 6.611 V/m; **Power Drift = 0.100 dB**

Fast SAR: SAR(1g) = 0.764 W/kg; SAR(10g) = 0.434 W/kg
 Maximum value of SAR (interpolated) = 0.944 W/kg



0 dB = 1.16 W/kg = 0.64 dBW/kg

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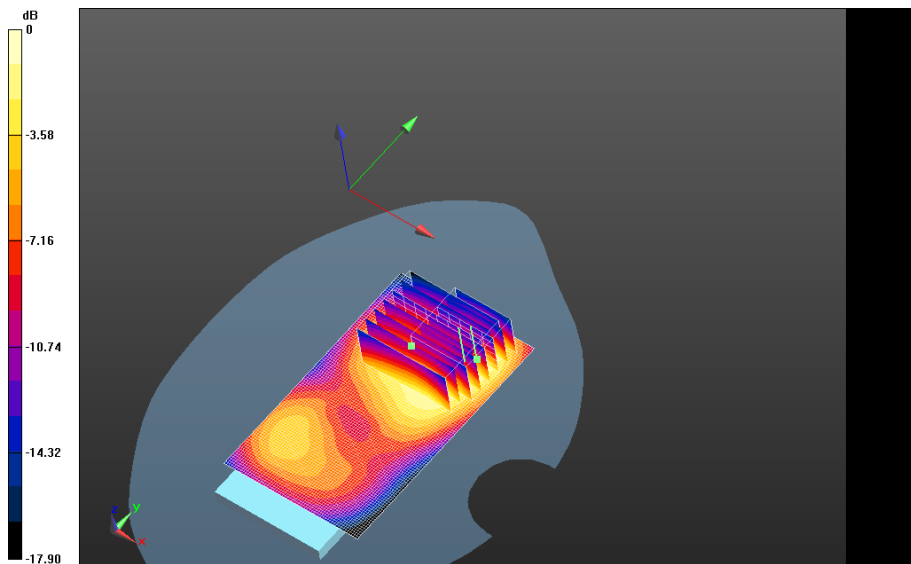
Mobile Hot Spot MSL - GPRS 1900/10mm Device Front - GPRS1900_chan661_amb_temp_23.6C_liq_temp_22.5C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 9.351 V/m; **Power Drift = 0.053 dB**

Mobile Hot Spot MSL - GPRS 1900/10mm Device Front - GPRS1900_chan661_amb_temp_23.6C_liq_temp_22.5C/Zoom Scan (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 9.351 V/m; **Power Drift = 0.053 dB**


Averaged SAR: SAR(1g) = 0.586 W/kg; SAR(10g) = 0.353 W/kg
Maximum value of SAR (interpolated) = 0.988 W/kg

Mobile Hot Spot MSL - GPRS 1900/10mm Device Front - GPRS1900_chan661_amb_temp_23.6C_liq_temp_22.5C/Zoom Scan 2 (41x31x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 9.351 V/m; **Power Drift = 0.070 dB**

Averaged SAR: SAR(1g) = 0.586 W/kg; SAR(10g) = 0.352 W/kg
Maximum value of SAR (interpolated) = 0.981 W/kg

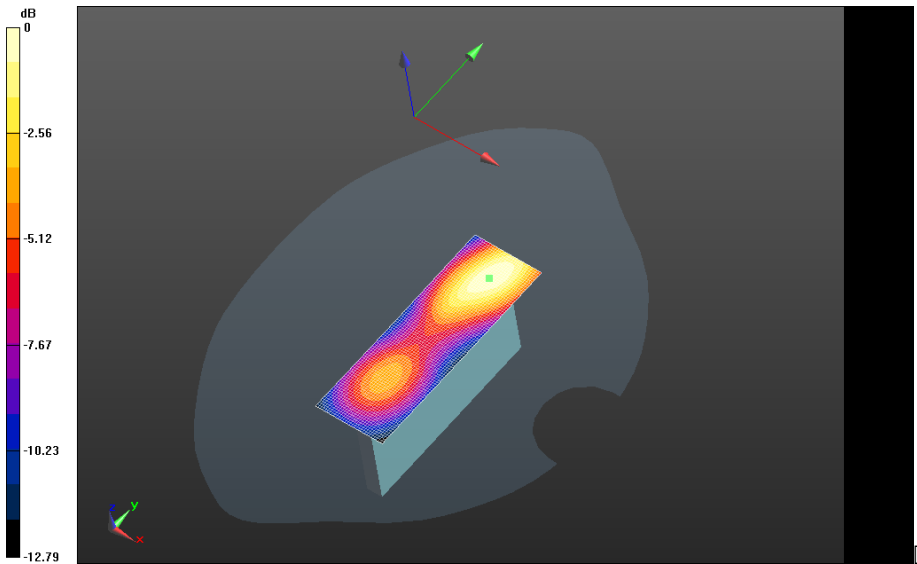


0 dB = 0.944 W/kg = -0.25 dBW/kg


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Mobile Hot Spot MSL - GPRS 1900/10mm Device Left -
GPRS1900_chan661_amb_temp_22.9C_liq_temp_21.9C/Area Scan (31x91x1): Interpolated
 grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 10.719 V/m; **Power Drift = -0.039 dB**

Fast SAR: SAR(1g) = 0.514 W/kg; SAR(10g) = 0.290 W/kg
 Maximum value of SAR (interpolated) = 0.627 W/kg

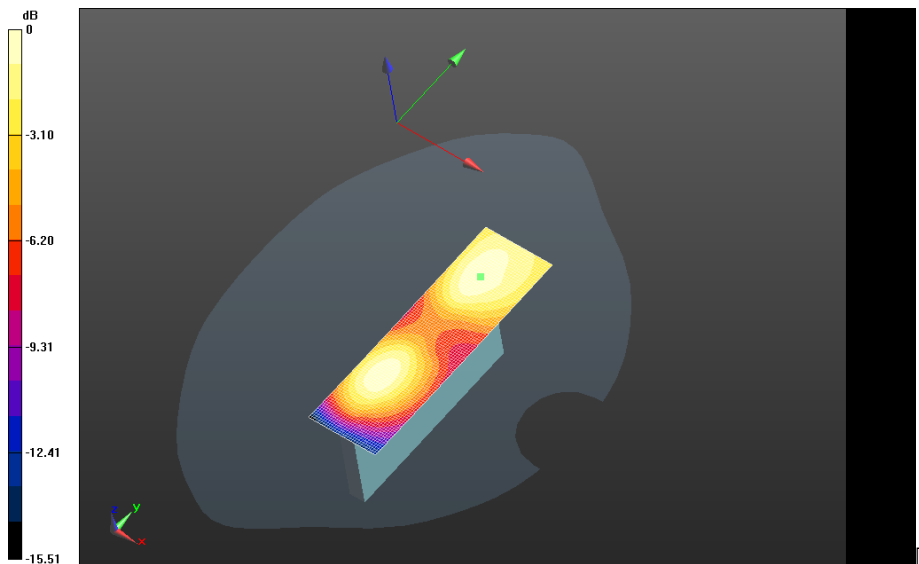


0 dB = 0.690 W/kg = -1.61 dBW/kg


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Mobile Hot Spot MSL - GPRS 1900/10mm Device Right -
GPRS1900_chan661_amb_temp_22.8C_liq_temp_21.1C/Area Scan (31x101x1): Interpolated
 grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 5.339 V/m; **Power Drift = 0.057 dB**

Fast SAR: SAR(1g) = 0.0806 W/kg; SAR(10g) = 0.0479 W/kg
 Maximum value of SAR (interpolated) = 0.0981 W/kg

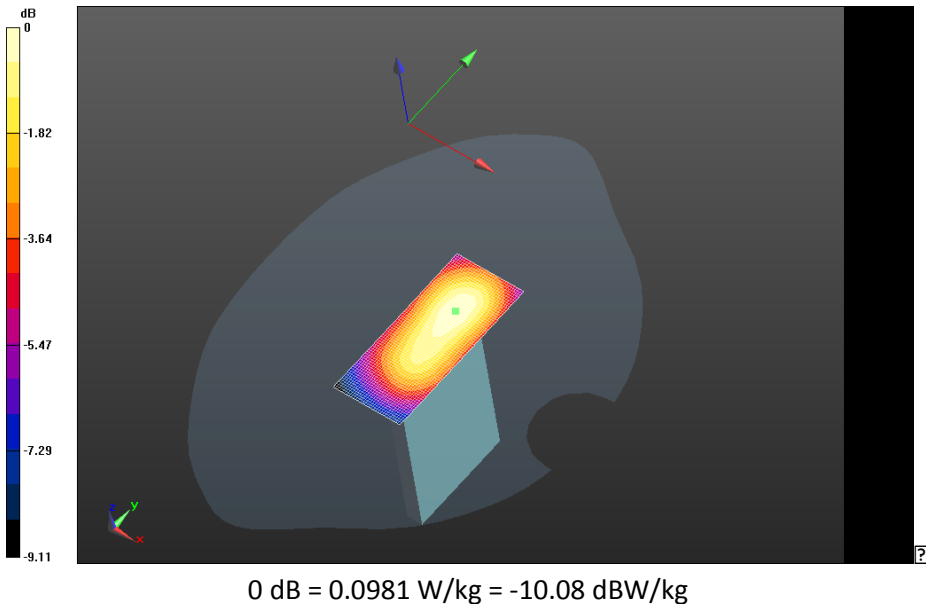


0 dB = 0.627 W/kg = -2.03 dBW/kg

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Mobile Hot Spot MSL - GPRS 1900/10mm Device Bottom -
GPRS1900_chan661_amb_temp_22.8C_liq_temp_21.1C/Area Scan (31x71x1): Interpolated
 grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 12.011 V/m; **Power Drift = -0.048 dB**

Fast SAR: SAR(1g) = 0.200 W/kg; SAR(10g) = 0.119 W/kg
 Maximum value of SAR (interpolated) = 0.239 W/kg





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UMTS Band II (RFX101LW)

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Date: 6/21/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 333E285E

Configuration: Mobile Hot Spot MSL - UMTS II

Communication System: WCDMA FDD II; Communication System Band: UMTS FDD II; Frequency: 1852.4 MHz

Medium Parameters used: $f=1852.4$ MHz; $\sigma = 1.528$ S/m; $\epsilon_r = 51.601$; $\rho = 1.000$ g/cm³

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 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Mobile Hot Spot MSL - UMTS II/10mm Device Back -

UMTS_II_chan9262_amb_temp_23.7C_liq_temp_22.3C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 8.710 V/m; **Power Drift = -0.031 dB**

Mobile Hot Spot MSL - UMTS II/10mm Device Back -

UMTS_II_chan9262_amb_temp_23.7C_liq_temp_22.3C/Zoom Scan (21x21x36)/Cube 0:

Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 8.710 V/m; **Power Drift = -0.031 dB**

Averaged SAR: SAR(1g) = 1.03 W/kg; SAR(10g) = 0.586 W/kg

Maximum value of SAR (interpolated) = 1.69 W/kg

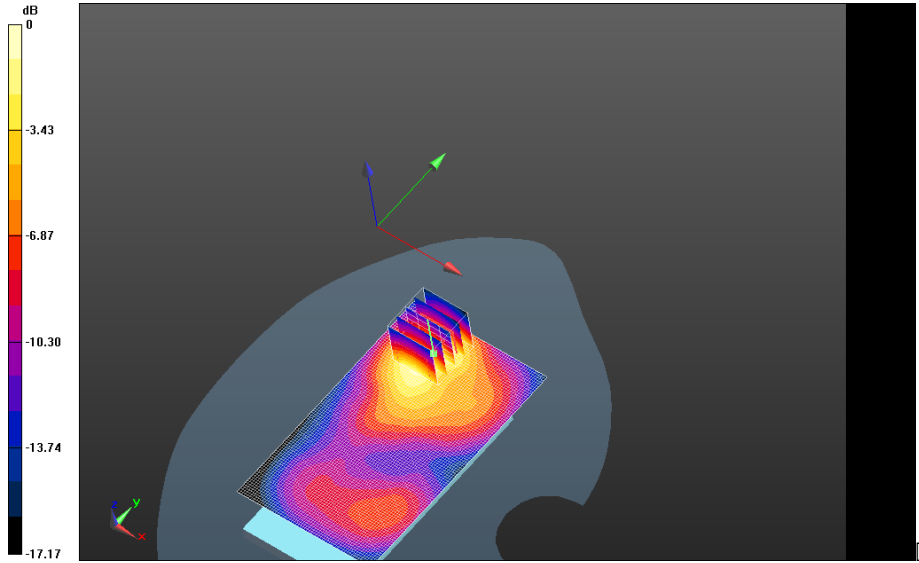
Author Data
Andrew Becker

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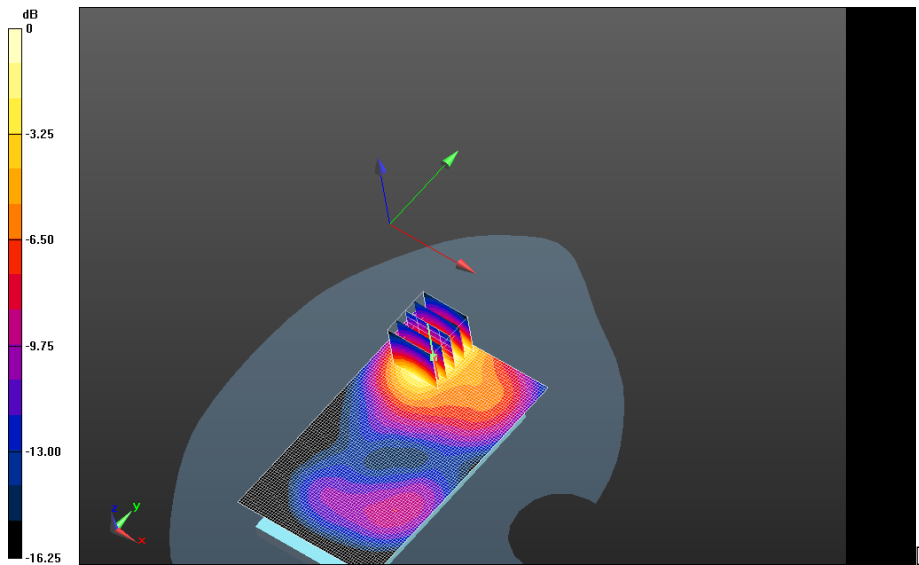
0 dB = 1.22 W/kg = 0.86 dBW/kg

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Mobile Hot Spot MSL - UMTS II/10mm Device Back -
UMTS_II_chan9400_amb_temp_23.6C_liq_temp_22.4C/Area Scan (61x101x1): Interpolated
 grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 6.977 V/m; **Power Drift = -0.136 dB**

Mobile Hot Spot MSL - UMTS II/10mm Device Back -
UMTS_II_chan9400_amb_temp_23.6C_liq_temp_22.4C/Zoom Scan (21x21x36)/Cube 0:
 Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 6.977 V/m; **Power Drift = -0.136 dB**

Averaged SAR: SAR(1g) = 1.19 W/kg; SAR(10g) = 0.674 W/kg
 Maximum value of SAR (interpolated) = 1.95 W/kg



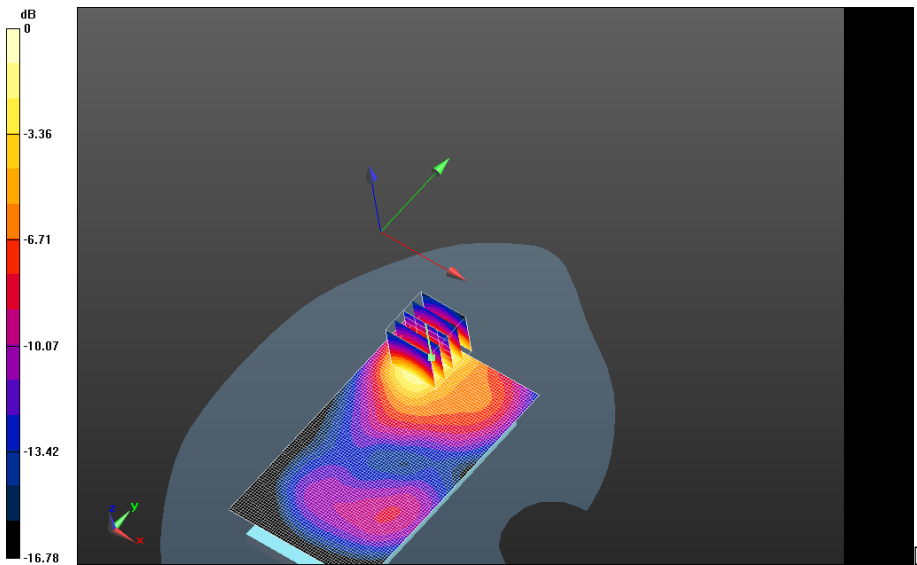
0 dB = 1.22 W/kg = 0.86 dBW/kg

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Mobile Hot Spot MSL - UMTS II/10mm Device Back -
UMTS_II_chan9400_amb_temp_23.6C_liq_temp_22.4C_2nd/Area Scan (61x101x1):
 Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 6.663 V/m; **Power Drift = -0.098 dB**

Mobile Hot Spot MSL - UMTS II/10mm Device Back -
UMTS_II_chan9400_amb_temp_23.6C_liq_temp_22.4C_2nd/Zoom Scan (21x21x36)/Cube 0:
 Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 6.663 V/m; **Power Drift = -0.098 dB**

Averaged SAR: SAR(1g) = 1.12 W/kg; SAR(10g) = 0.639 W/kg
 Maximum value of SAR (interpolated) = 1.85 W/kg

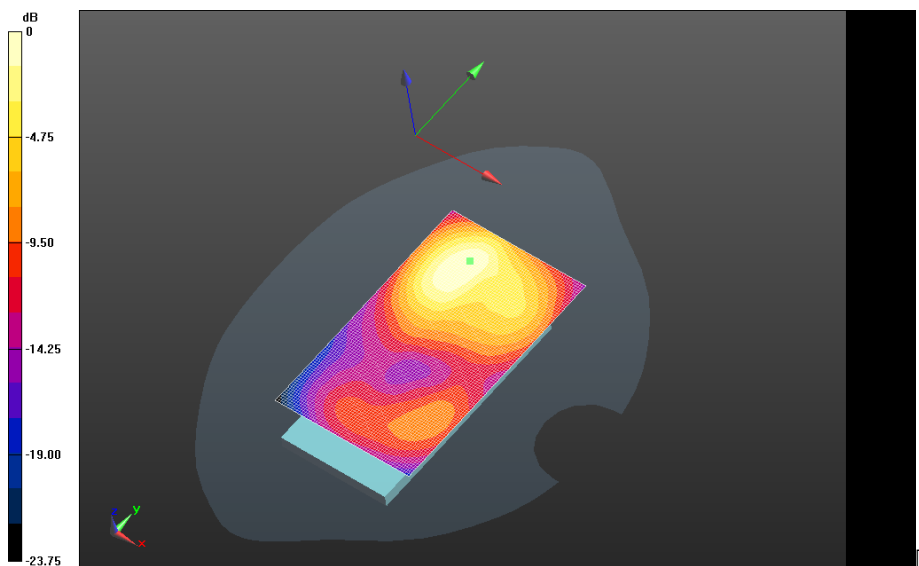


0 dB = 1.45 W/kg = 1.61 dBW/kg


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Mobile Hot Spot MSL - UMTS II/10mm Device Back -
UMTS_II_chan9538_amb_temp_23.6C_liq_temp_22.4C/Area Scan (61x101x1): Interpolated
 grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 6.886 V/m; **Power Drift = 0.126 dB**

Fast SAR: SAR(1g) = 0.939 W/kg; SAR(10g) = 0.540 W/kg
 Maximum value of SAR (interpolated) = 1.17 W/kg



0 dB = 1.37 W/kg = 1.37 dBW/kg

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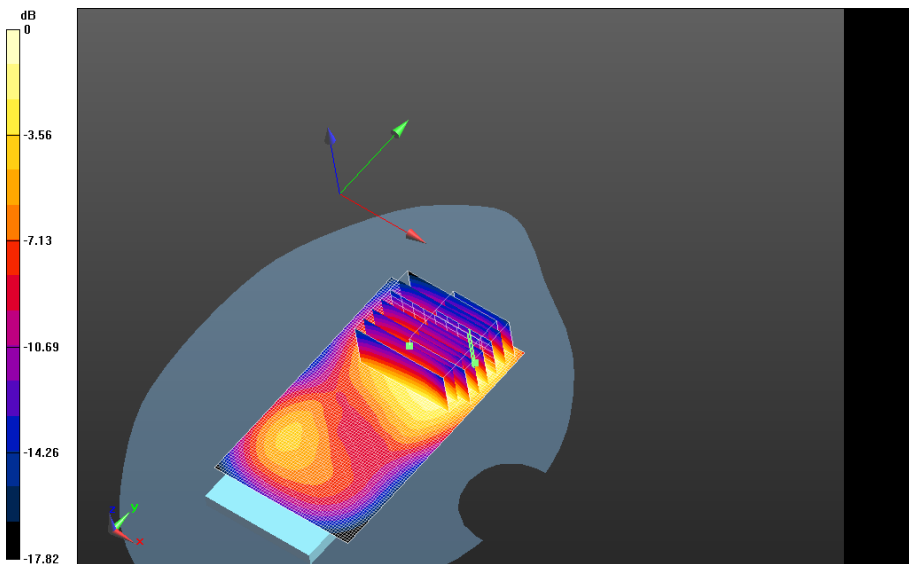
Mobile Hot Spot MSL - UMTS II/10mm Device Front - UMTS_II_chan9400_amb_temp_23.8C_liq_temp_22.6C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 9.536 V/m; **Power Drift = 0.058 dB**

Mobile Hot Spot MSL - UMTS II/10mm Device Front - UMTS_II_chan9400_amb_temp_23.8C_liq_temp_22.6C/Zoom Scan (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 9.536 V/m; **Power Drift = 0.058 dB**


Averaged SAR: SAR(1g) = 0.818 W/kg; SAR(10g) = 0.492 W/kg
 Maximum value of SAR (interpolated) = 1.40 W/kg

Mobile Hot Spot MSL - UMTS II/10mm Device Front - UMTS_II_chan9400_amb_temp_23.8C_liq_temp_22.6C/Zoom Scan 2 (41x31x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 9.536 V/m; **Power Drift = 0.063 dB**

Averaged SAR: SAR(1g) = 0.819 W/kg; SAR(10g) = 0.490 W/kg
 Maximum value of SAR (interpolated) = 1.38 W/kg

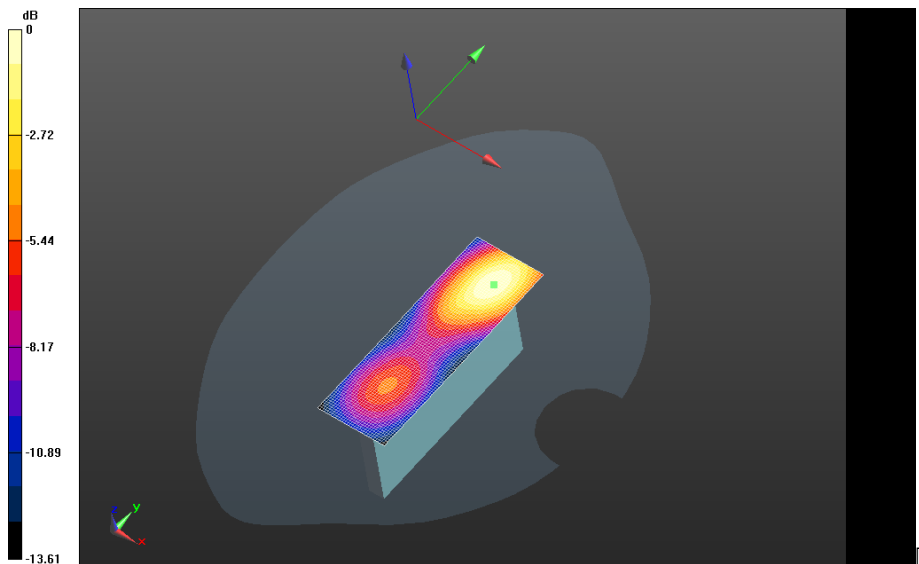


0 dB = 1.17 W/kg = 0.68 dBW/kg


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Mobile Hot Spot MSL - UMTS II/10mm Device Left -
UMTS_II_chan9400_amb_temp_23.8C_liq_temp_22.5C/Area Scan (31x91x1): Interpolated
 grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 11.898 V/m; **Power Drift = -0.101 dB**

Fast SAR: SAR(1g) = 0.822 W/kg; SAR(10g) = 0.458 W/kg
 Maximum value of SAR (interpolated) = 1.01 W/kg

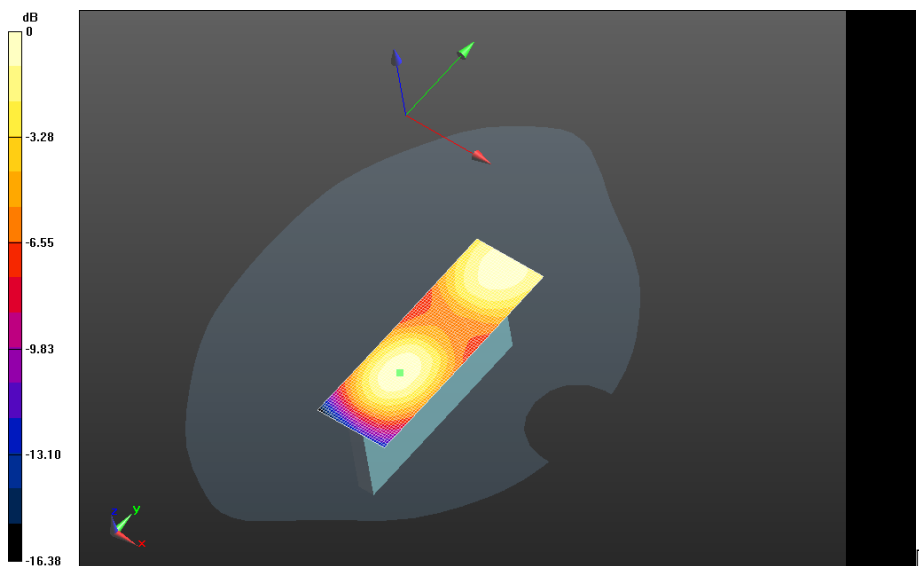


0 dB = 0.989 W/kg = -0.05 dBW/kg


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Mobile Hot Spot MSL - UMTS II/10mm Device Right -
UMTS_II_chan9400_amb_temp_23.8C_liq_temp_22.5C/Area Scan (31x91x1): Interpolated
 grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 5.990 V/m; **Power Drift = 0.027 dB**

Fast SAR: SAR(1g) = 0.106 W/kg; SAR(10g) = 0.0616 W/kg
 Maximum value of SAR (interpolated) = 0.128 W/kg

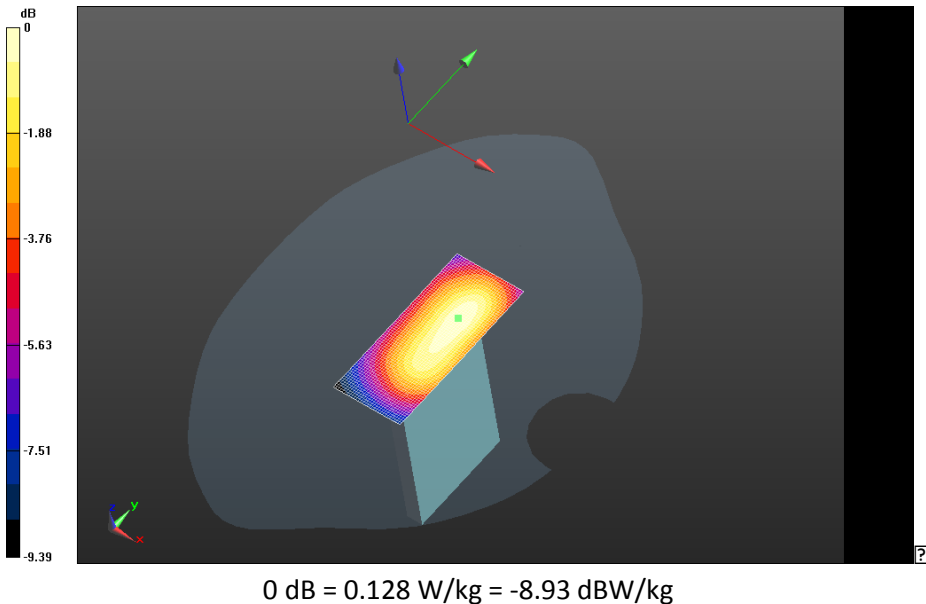


0 dB = 1.01 W/kg = 0.04 dBW/kg

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Mobile Hot Spot MSL - UMTS II/10mm Device Bottom -
UMTS_II_chan9400_amb_temp_23.8C_liq_temp_22.5C/Area Scan (31x71x1): Interpolated
 grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 13.876 V/m; **Power Drift = -0.030 dB**

Fast SAR: SAR(1g) = 0.276 W/kg; SAR(10g) = 0.163 W/kg
 Maximum value of SAR (interpolated) = 0.335 W/kg





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Bluetooth (RFX101LW)

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Date: 6/18/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 333E2854

Configuration: Mobile Hot Spot MSL - Bluetooth

Communication System: 802.11 b (2450); Communication System Band: 802.11 b; Frequency: 2437 MHz

Medium Parameters used: $f=2437$ MHz; $\sigma = 1.887$ S/m; $\epsilon_r = 50.251$; $\rho = 1.000$ g/cm³

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 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Mobile Hot Spot MSL - Bluetooth/10mm Device Back -

Bluetooth_chan0_amb_temp_23.1C_liq_temp_21.6C/Area Scan (81x131x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0836 W/kg

Mobile Hot Spot MSL - Bluetooth/10mm Device Back -

Bluetooth_chan0_amb_temp_23.1C_liq_temp_21.6C/Zoom Scan (31x31x36)/Cube 0:

Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 5.908 V/m; **Power Drift = -0.00777 dB**

Averaged SAR: SAR(1g) = 0.0617 W/kg; SAR(10g) = 0.0273 W/kg

Maximum value of SAR (interpolated) = 0.134 W/kg

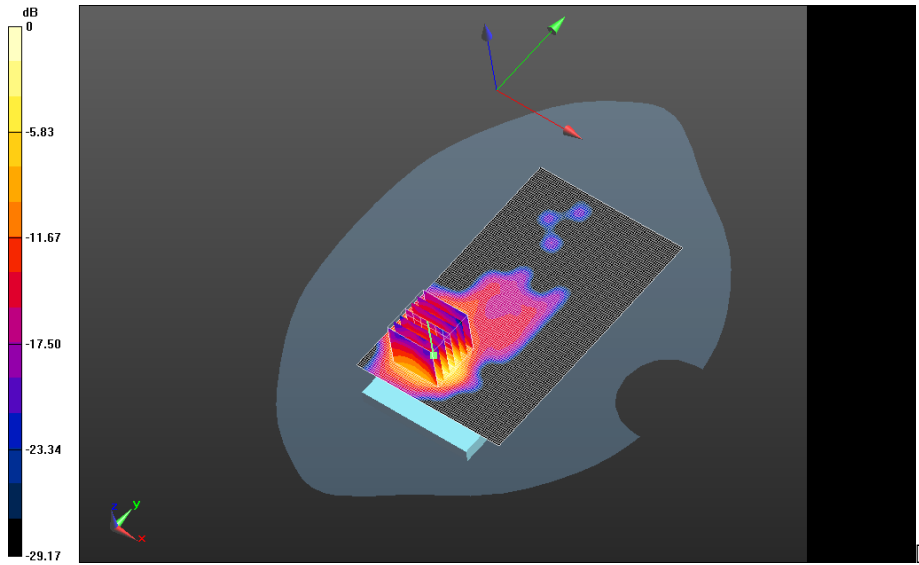
Author Data
Andrew Becker

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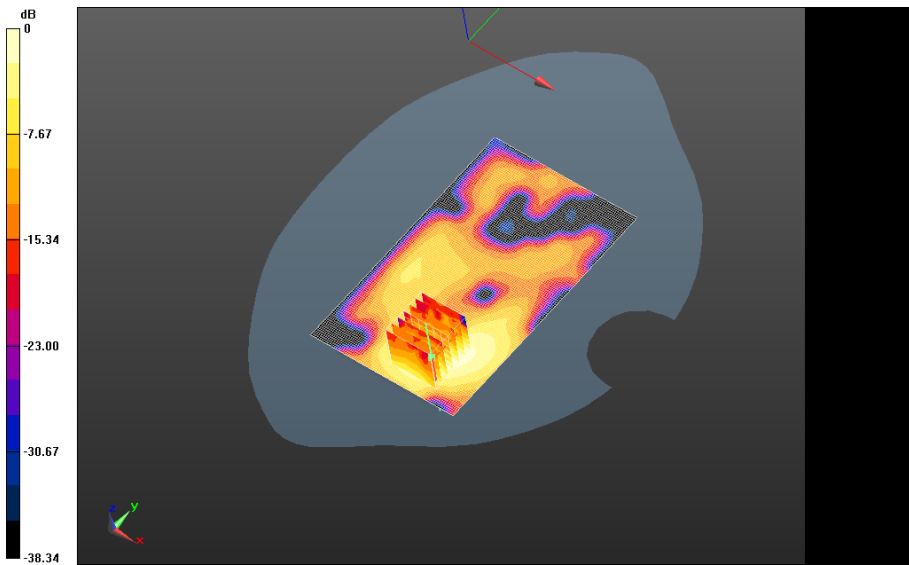
0 dB = 0.0821 W/kg = -10.86 dBW/kg

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Mobile Hot Spot MSL - Bluetooth/10mm Device Front - Bluetooth_chan0_amb_temp_23.2C_liq_temp_21.5C/Area Scan (81x131x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
 Maximum value of SAR (interpolated) = 0.0230 W/kg

Mobile Hot Spot MSL - Bluetooth/10mm Device Front - Bluetooth_chan0_amb_temp_23.2C_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 = 3.513 V/m; **Power Drift = 0.324 dB**

Averaged SAR: SAR(1g) = 0.0186 W/kg; SAR(10g) = 0.00923 W/kg
 Maximum value of SAR (interpolated) = 0.0384 W/kg



0 dB = 0.0821 W/kg = -10.86 dBW/kg

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Mobile Hot Spot MSL - Bluetooth/10mm Device Top - Bluetooth_chan0_amb_temp_23.2C_liq_temp_21.4C/Area Scan (41x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
 Maximum value of SAR (interpolated) = 0.0377 W/kg

Mobile Hot Spot MSL - Bluetooth/10mm Device Top - Bluetooth_chan0_amb_temp_23.2C_liq_temp_21.4C/Zoom Scan (21x21x36)/Cube 0:
 Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 4.441 V/m; **Power Drift = 0.156 dB**

Averaged SAR: SAR(1g) = 0.0307 W/kg; SAR(10g) = 0.0158 W/kg
 Maximum value of SAR (interpolated) = 0.0596 W/kg

