APPENDIX C2: SAR DISTRIBUTION PLOTS FOR HOT SPOT CONFIGURATION

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LTE Band 17

Date: 7/8/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFEB280

Configuration: Mobile Hot Spot MSL - LTE Band 17

Communication System: LTE band 17 (0); Communication System Band: LTE 17; Frequency: 709 MHz
Medium Parameters used: f=709 MHz; σ = 0.927 S/m; ε_r = 55.625; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.28,6.28,6.28); Calibrated: 1/22/2014;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Mobile Hot Spot MSL - LTE Band 17/10mm Device Back -LTE Band 17_chan23780_10MHz_BW_RB1_Offset_High_amb_temp_23.5C_liq_temp_22.1C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 21.557 V/m; **Power Drift = -0.144 dB**

Fast SAR: SAR(1g) = 0.717 W/kg; SAR(10g) = 0.481 W/kg
Maximum value of SAR (interpolated) = 0.810 W/kg

Mobile Hot Spot MSL - LTE Band 17/10mm Device Back -LTE Band 17_chan23780_10MHz_BW_RB1_Offset_High_amb_temp_23.5C_liq_temp_22.1C/Zoom Scan (21x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 21.557 V/m; **Power Drift = -0.144 dB**

Averaged SAR: SAR(1g) = 0.727 W/kg; SAR(10g) = 0.461 W/kg
Maximum value of SAR (interpolated) = 1.19 W/kg

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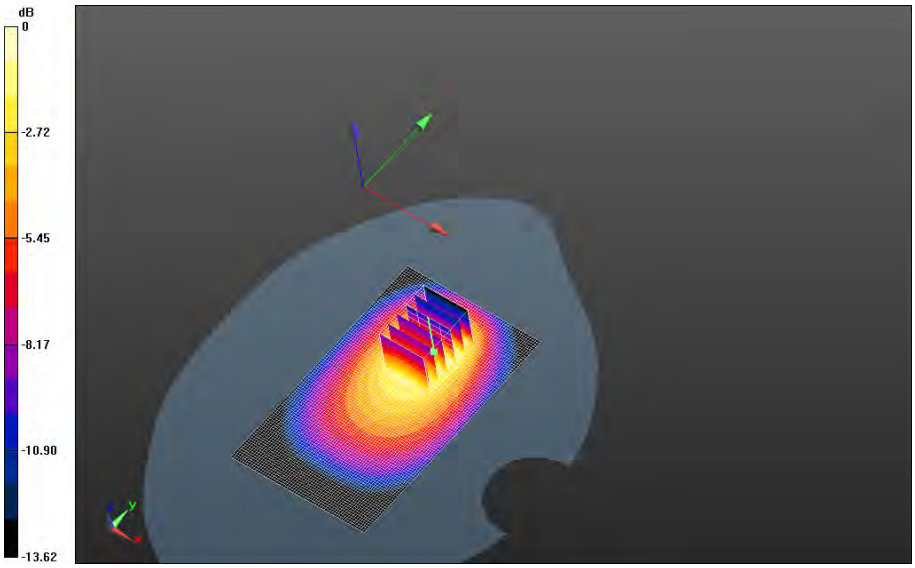

0 dB = 0.861 W/kg = -0.65 dBW/kg

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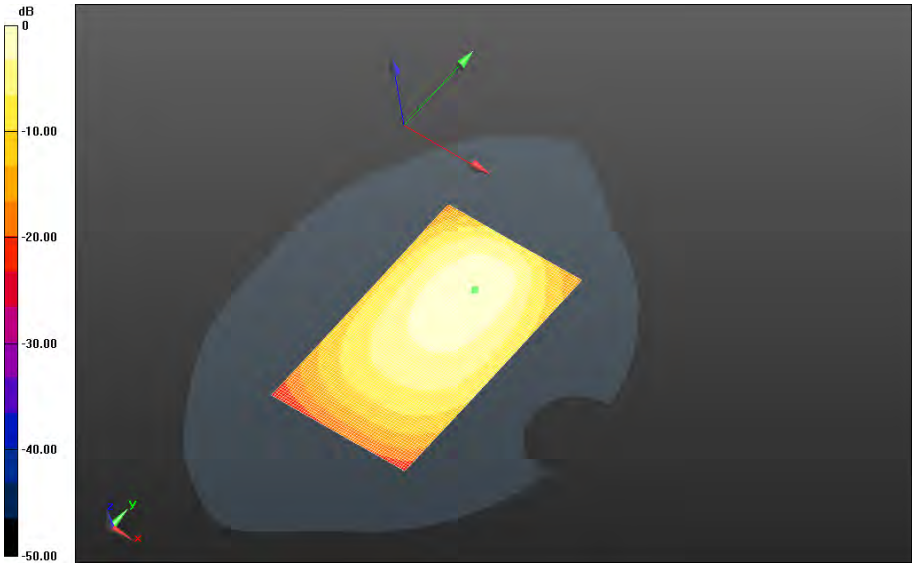
Mobile Hot Spot MSL - LTE Band 17/10mm Device Back -LTE Band 17_chan23790_10MHz_BW_RB1_Offset_Mid_amb_temp_23.4C_liq_temp_21.9C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 20.721 V/m; **Power Drift = 0.056 dB**

Fast SAR: SAR(1g) = 0.698 W/kg; SAR(10g) = 0.468 W/kg
Maximum value of SAR (interpolated) = 0.790 W/kg



0 dB = 0.861 W/kg = -0.65 dBW/kg

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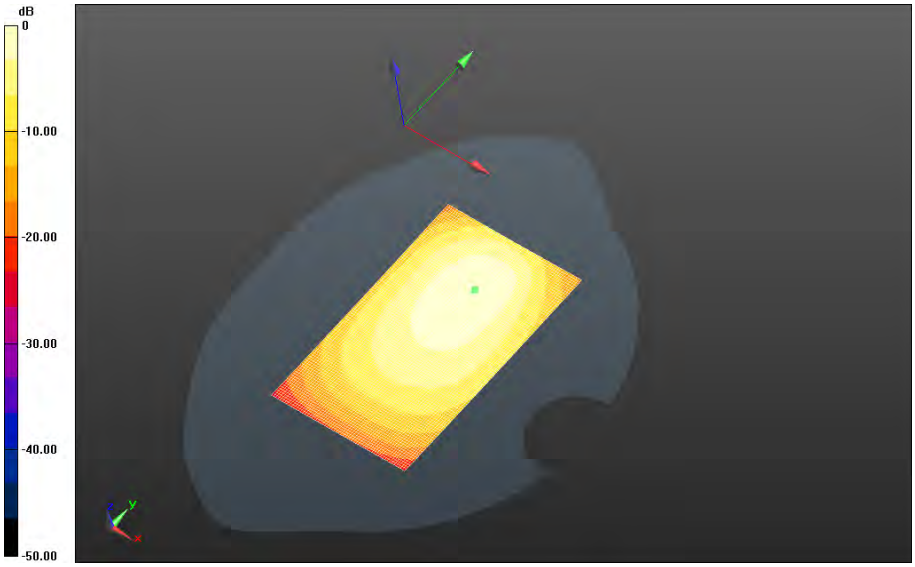
Mobile Hot Spot MSL - LTE Band 17/10mm Device Back -LTE Band 17_chan23800_10MHz_BW_RB1_Offset_Low_amb_temp_23.4C_liq_temp_22.0C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 20.511 V/m; **Power Drift = 0.000316 dB**

Fast SAR: SAR(1g) = 0.695 W/kg; SAR(10g) = 0.466 W/kg
Maximum value of SAR (interpolated) = 0.786 W/kg



0 dB = 0.790 W/kg = -1.02 dBW/kg

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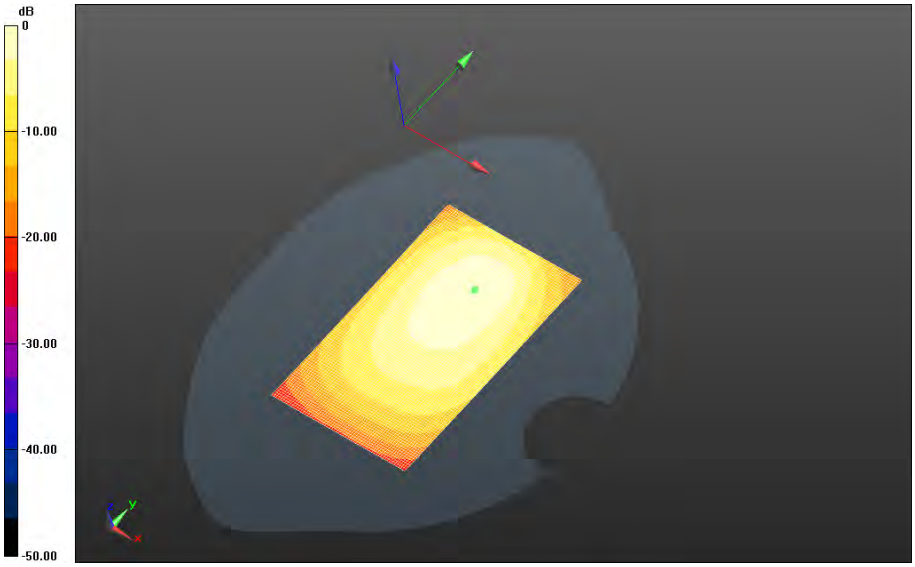
Mobile Hot Spot MSL - LTE Band 17/10mm Device Back -LTE Band 17_chan23780_10MHz_BW_RB25_Offset_High_amb_temp_23.3C_liq_temp_22.0C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 18.325 V/m; **Power Drift = 0.00263 dB**

Fast SAR: SAR(1g) = 0.555 W/kg; SAR(10g) = 0.373 W/kg
Maximum value of SAR (interpolated) = 0.626 W/kg



0 dB = 0.786 W/kg = -1.05 dBW/kg

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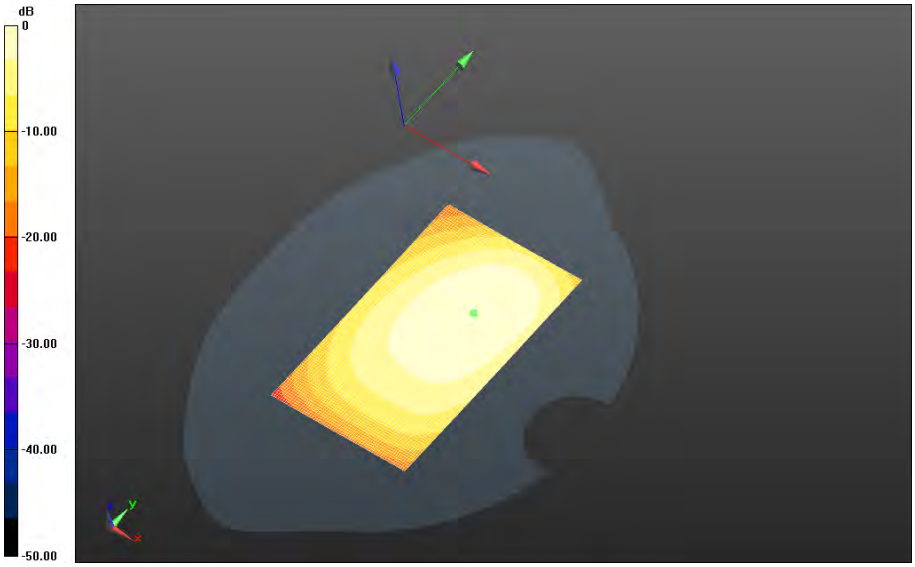
Mobile Hot Spot MSL - LTE Band 17/10mm Device Front -LTE Band 17_chan23800_10MHz_BW_RB1_Offset_Low_amb_temp_23.2C_liq_temp_22.0C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 17.058 V/m; **Power Drift = -0.028 dB**

Fast SAR: SAR(1g) = 0.339 W/kg; SAR(10g) = 0.237 W/kg
Maximum value of SAR (interpolated) = 0.372 W/kg



0 dB = 0.626 W/kg = -2.03 dBW/kg

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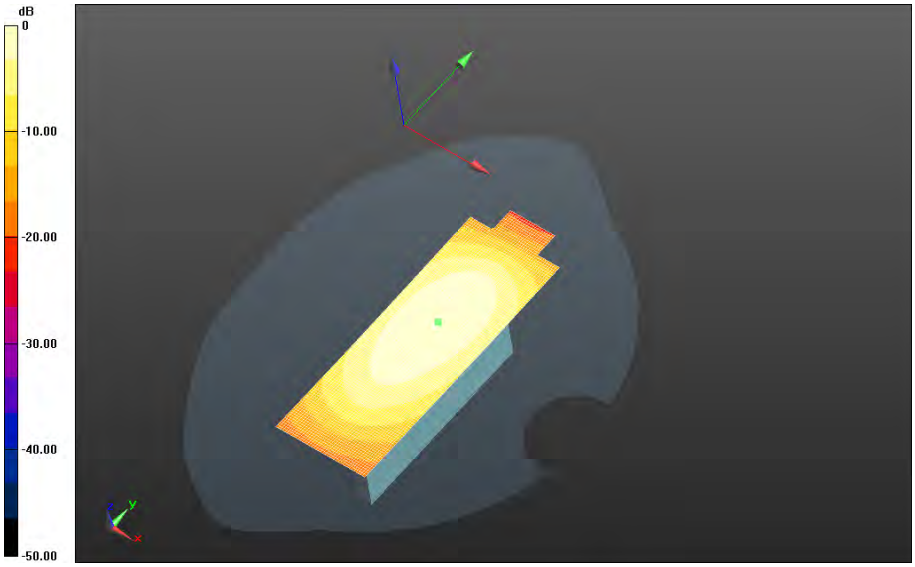
Mobile Hot Spot MSL - LTE Band 17/10mm Device Left -LTE Band 17_chan23800_10MHz_BW_RB1_Offset_Low_amb_temp_23.2C_liq_temp_21.9C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 18.538 V/m; **Power Drift = -0.041 dB**

Fast SAR: SAR(1g) = 0.290 W/kg; SAR(10g) = 0.196 W/kg
Maximum value of SAR (interpolated) = 0.326 W/kg



0 dB = 0.372 W/kg = -4.29 dBW/kg

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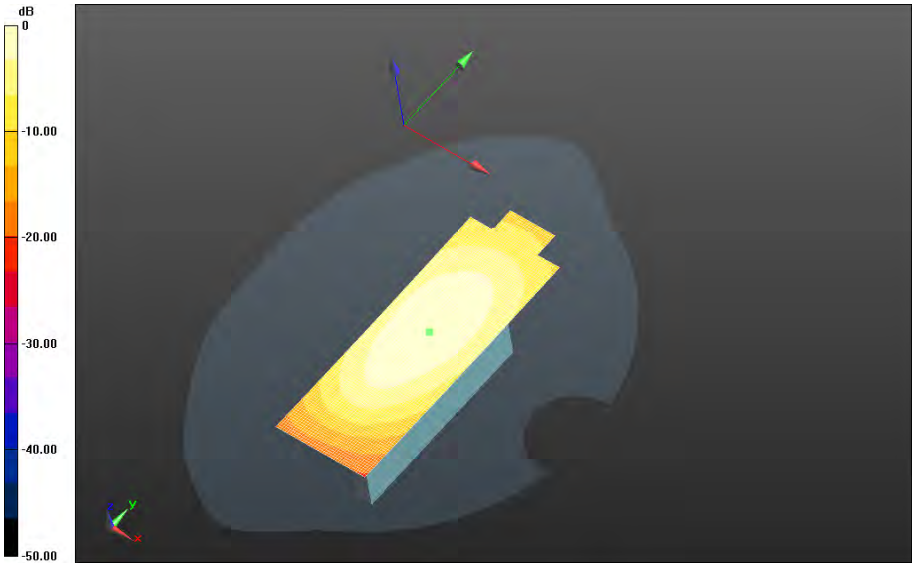
Mobile Hot Spot MSL - LTE Band 17/10mm Device Right -LTE Band 17_chan23800_10MHz_BW_RB1_Offset_Low_amb_temp_23.4C_liq_temp_21.9C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 13.387 V/m; **Power Drift = 0.142 dB**

Fast SAR: SAR(1g) = 0.143 W/kg; SAR(10g) = 0.0973 W/kg
Maximum value of SAR (interpolated) = 0.161 W/kg



0 dB = 0.326 W/kg = -4.87 dBW/kg

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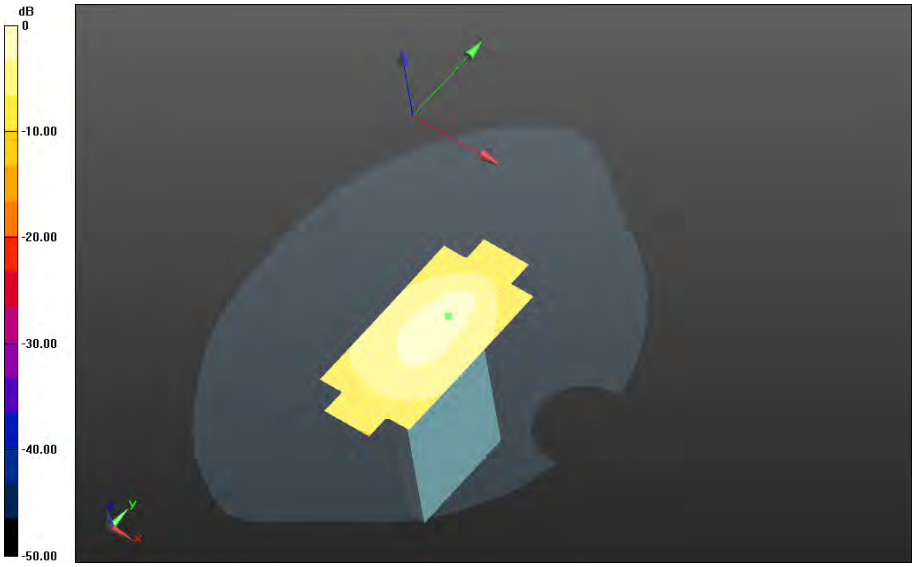
Mobile Hot Spot MSL - LTE Band 17/10mm Device Bottom -LTE Band 17_chan23800_10MHz_BW_RB1_Offset_Low_amb_temp_23.4C_liq_temp_21.9C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.103 V/m; **Power Drift = -0.035 dB**

Fast SAR: SAR(1g) = 0.132 W/kg; SAR(10g) = 0.0801 W/kg
Maximum value of SAR (interpolated) = 0.162 W/kg



0 dB = 0.161 W/kg = -7.93 dBW/kg

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LTE Band 5

Date: 7/3/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFEB280

Configuration: Mobile Hot Spot MSL - LTE Band 5

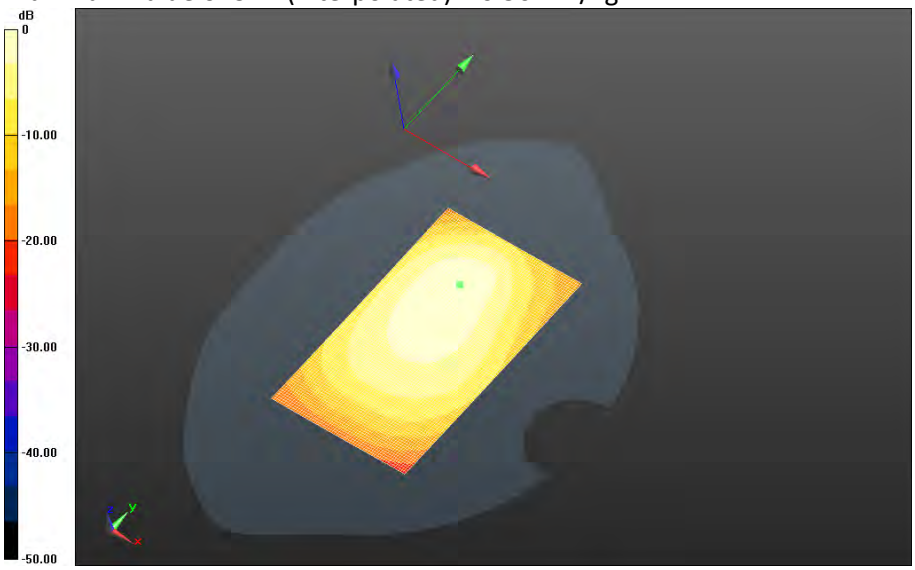
Communication System: LTE 5 (0); Communication System Band: LTE 5; Frequency: 829 MHz
Medium Parameters used: f=829 MHz; σ = 0.991 S/m; ε_r = 57.559; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.09,6.09,6.09); Calibrated: 1/22/2014;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Mobile Hot Spot MSL - LTE Band 5/10mm Device Back - LTE Band 5_chan20450_10MHz_BW_RB1_Offset_Low_amb_temp_24.1C_liq_temp_22.0C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 18.794 V/m; **Power Drift = 0.019 dB**

Fast SAR: SAR(1g) = 0.485 W/kg; SAR(10g) = 0.325 W/kg
Maximum value of SAR (interpolated) = 0.567 W/kg



0 dB = 0.567 W/kg = -2.46 dBW/kg

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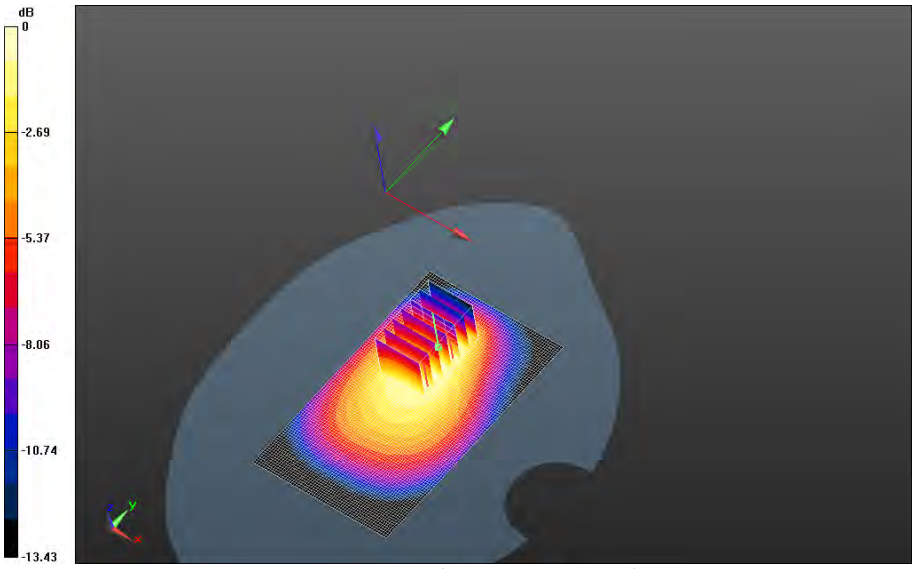
Mobile Hot Spot MSL - LTE Band 5/10mm Device Back - LTE Band 5_chan20525_10MHz_BW_RB1_Offset_Mid_amb_temp_24.2C_liq_temp_22.1C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 19.430 V/m; **Power Drift = -0.014 dB**

Fast SAR: SAR(1g) = 0.493 W/kg; SAR(10g) = 0.331 W/kg
Maximum value of SAR (interpolated) = 0.578 W/kg

Mobile Hot Spot MSL - LTE Band 5/10mm Device Back - LTE Band 5_chan20525_10MHz_BW_RB1_Offset_Mid_amb_temp_24.2C_liq_temp_22.1C/Zoom Scan (21x31x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 19.430 V/m; **Power Drift = -0.014 dB**

Averaged SAR: SAR(1g) = 0.483 W/kg; SAR(10g) = 0.330 W/kg
Maximum value of SAR (interpolated) = 0.705 W/kg



0 dB = 0.567 W/kg = -2.46 dBW/kg

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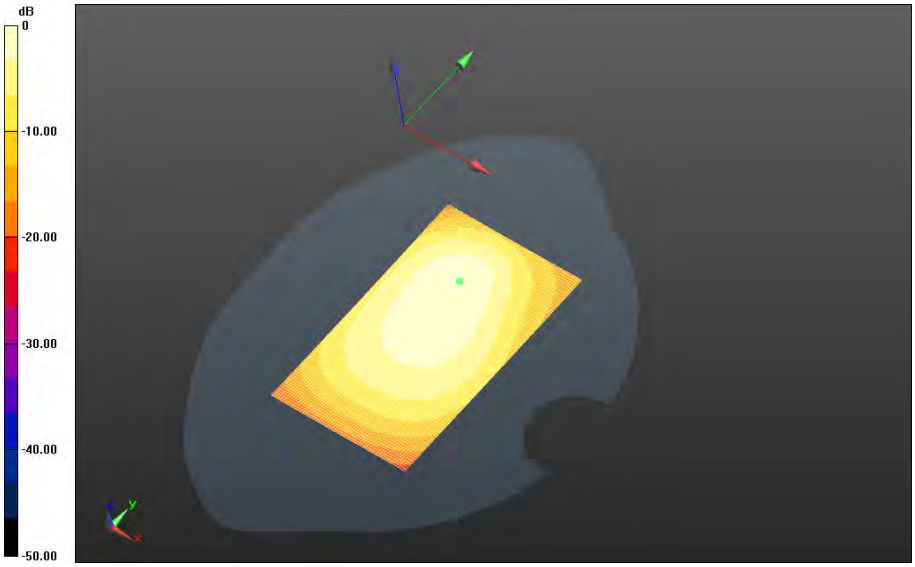
Mobile Hot Spot MSL - LTE Band 5/10mm Device Back - LTE Band 5_chan20525_5MHz_BW_16QAM_RB1_Offset_Mid_amb_temp_24.2C_liq_temp_22.1C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 19.371 V/m; **Power Drift = 0.026 dB**

Fast SAR: SAR(1g) = 0.455 W/kg; SAR(10g) = 0.307 W/kg
Maximum value of SAR (interpolated) = 0.529 W/kg



0 dB = 0.552 W/kg = -2.58 dBW/kg

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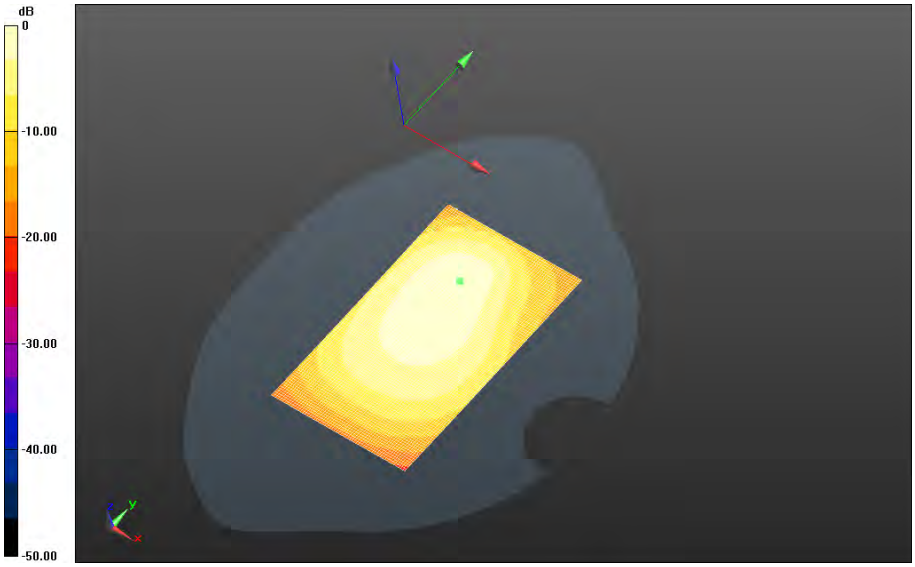
Mobile Hot Spot MSL - LTE Band 5/10mm Device Back - LTE Band 5_chan20600_10MHz_BW_RB1_Offset_Low_amb_temp_24.3C_liq_temp_22.1C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 19.301 V/m; **Power Drift = 0.081 dB**

Fast SAR: SAR(1g) = 0.477 W/kg; SAR(10g) = 0.322 W/kg
Maximum value of SAR (interpolated) = 0.556 W/kg



0 dB = 0.529 W/kg = -2.77 dBW/kg

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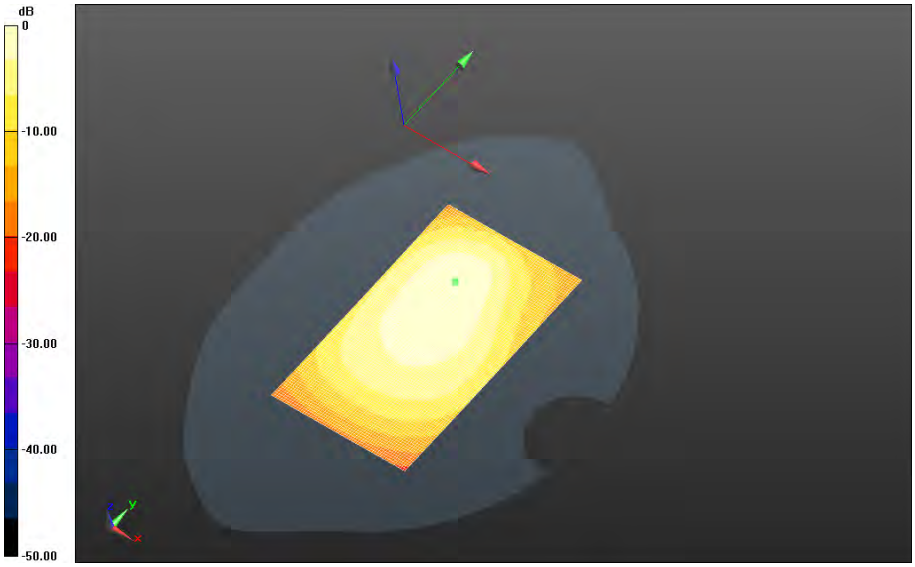
Mobile Hot Spot MSL - LTE Band 5/10mm Device Back - LTE Band 5_chan20600_10MHz_BW_16QAM_RB1_Offset_Low_amb_temp_24.3C_liq_temp_22.1C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 18.853 V/m; **Power Drift = -0.013 dB**

Fast SAR: SAR(1g) = 0.457 W/kg; SAR(10g) = 0.308 W/kg
Maximum value of SAR (interpolated) = 0.529 W/kg



0 dB = 0.556 W/kg = -2.55 dBW/kg

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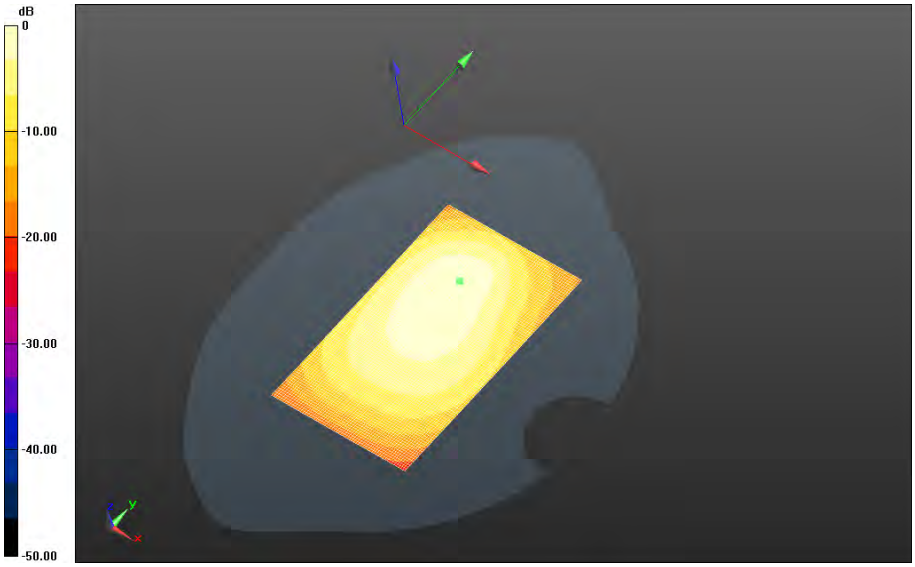
Mobile Hot Spot MSL - LTE Band 5/10mm Device Back - LTE Band 5_chan20450_10MHz_BW_RB25_Offset_Low_amb_temp_23.7C_liq_temp_22.0C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 19.051 V/m; **Power Drift = -0.00408 dB**

Fast SAR: SAR(1g) = 0.489 W/kg; SAR(10g) = 0.327 W/kg
Maximum value of SAR (interpolated) = 0.574 W/kg



0 dB = 0.529 W/kg = -2.77 dBW/kg

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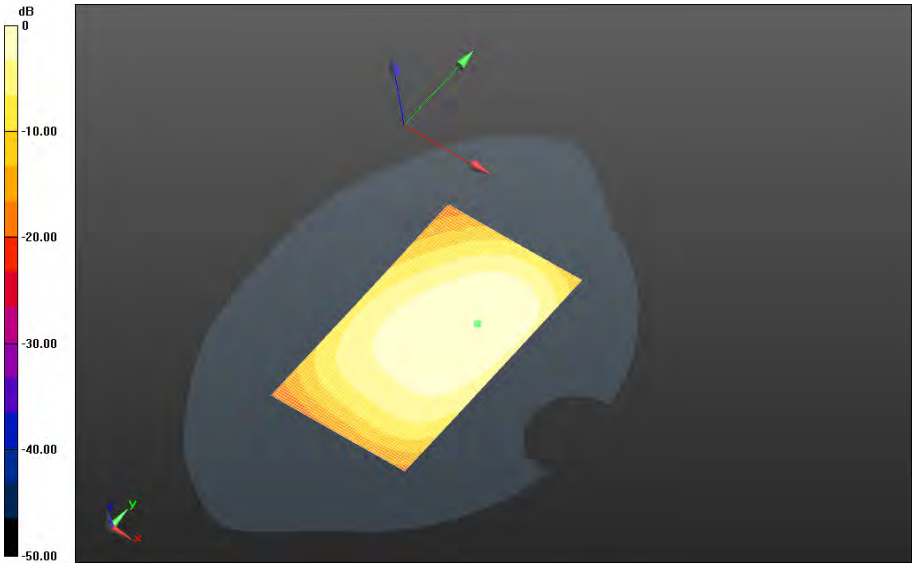
Mobile Hot Spot MSL - LTE Band 5/10mm Device Front - LTE Band 5_chan20450_10MHz_BW_RB1_Offset_Low_amb_temp_23.4C_liq_temp_21.8C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 16.057 V/m; **Power Drift = 0.037 dB**

Fast SAR: SAR(1g) = 0.278 W/kg; SAR(10g) = 0.194 W/kg
Maximum value of SAR (interpolated) = 0.314 W/kg



0 dB = 0.574 W/kg = -2.41 dBW/kg

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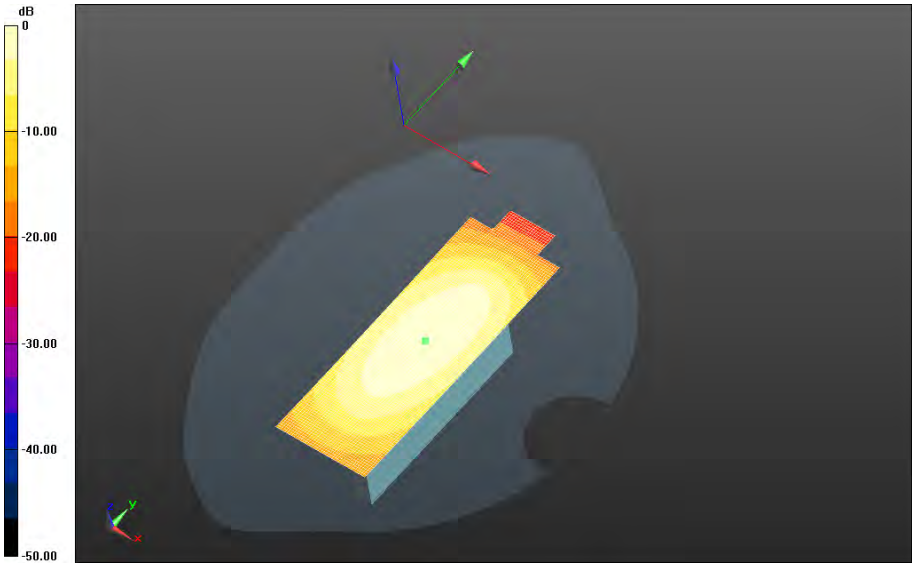
Mobile Hot Spot MSL - LTE Band 5/10mm Device Left - LTE Band 5_chan20450_10MHz_BW_RB1_Offset_Low_amb_temp_23.0C_liq_temp_21.9C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 21.102 V/m; **Power Drift = 0.048 dB**

Fast SAR: SAR(1g) = 0.364 W/kg; SAR(10g) = 0.241 W/kg
Maximum value of SAR (interpolated) = 0.421 W/kg



0 dB = 0.314 W/kg = -5.03 dBW/kg

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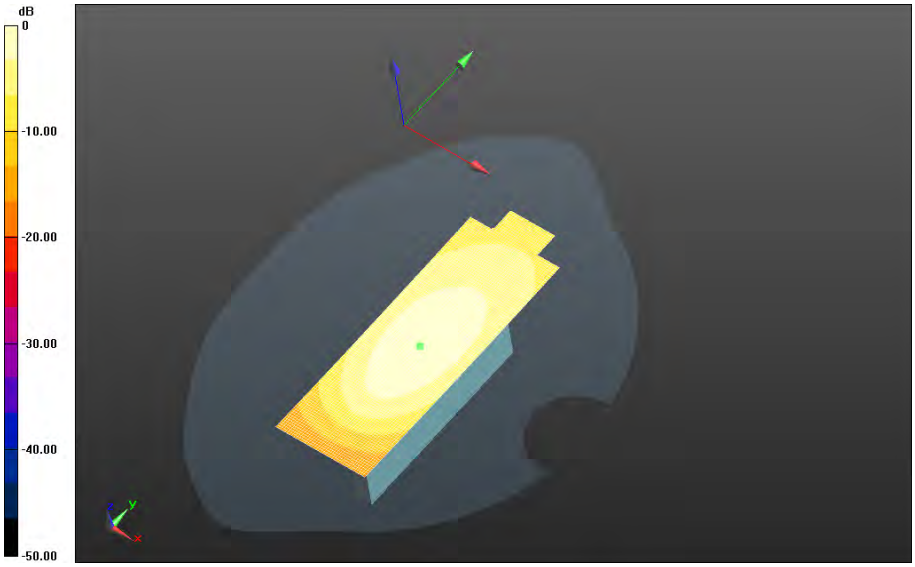
Mobile Hot Spot MSL - LTE Band 5/10mm Device Right - LTE Band 5_chan20450_10MHz_BW_RB1_Offset_Low_amb_temp_22.9C_liq_temp_22.0C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 13.306 V/m; **Power Drift = -0.126 dB**

Fast SAR: SAR(1g) = 0.140 W/kg; SAR(10g) = 0.0935 W/kg
Maximum value of SAR (interpolated) = 0.161 W/kg



0 dB = 0.421 W/kg = -3.76 dBW/kg

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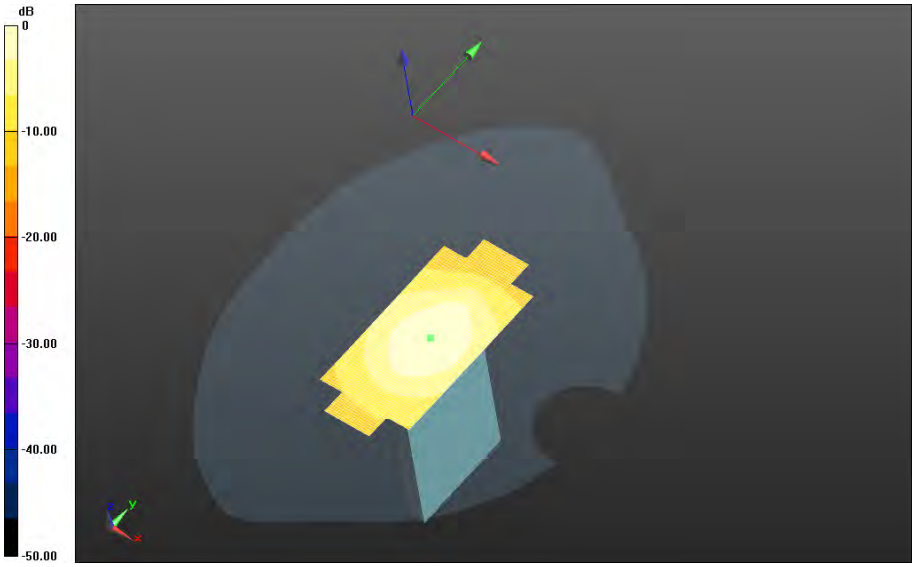
Mobile Hot Spot MSL - LTE Band 5/10mm Device Bottom - LTE Band 5_chan20450_10MHz_BW_RB1_Offset_Low_amb_temp_22.9C_liq_temp_21.8C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 10.725 V/m; **Power Drift = 0.038 dB**

Fast SAR: SAR(1g) = 0.0976 W/kg; SAR(10g) = 0.0632 W/kg
Maximum value of SAR (interpolated) = 0.114 W/kg



0 dB = 0.161 W/kg = -7.93 dBW/kg

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LTE Band 5 Rev 2

Date: 7/25/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFEC30B

Configuration: Mobile Hot Spot MSL - LTE Band 5

Communication System: LTE 5 (0); Communication System Band: LTE 5; Frequency: 829 MHz
Medium Parameters used: f=829 MHz; σ = 0.976 S/m; ε_r = 53.660; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.09,6.09,6.09); Calibrated: 1/22/2014;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Mobile Hot Spot MSL - LTE Band 5/10mm Device Back - LTE Band 5_chan20450_10MHz_BW_RB1_Offset_Low_amb_temp_24.1C_liq_temp_22.0C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 23.189 V/m; **Power Drift = -0.014 dB**

Fast SAR: SAR(1g) = 0.669 W/kg; SAR(10g) = 0.451 W/kg
Maximum value of SAR (interpolated) = 0.772 W/kg

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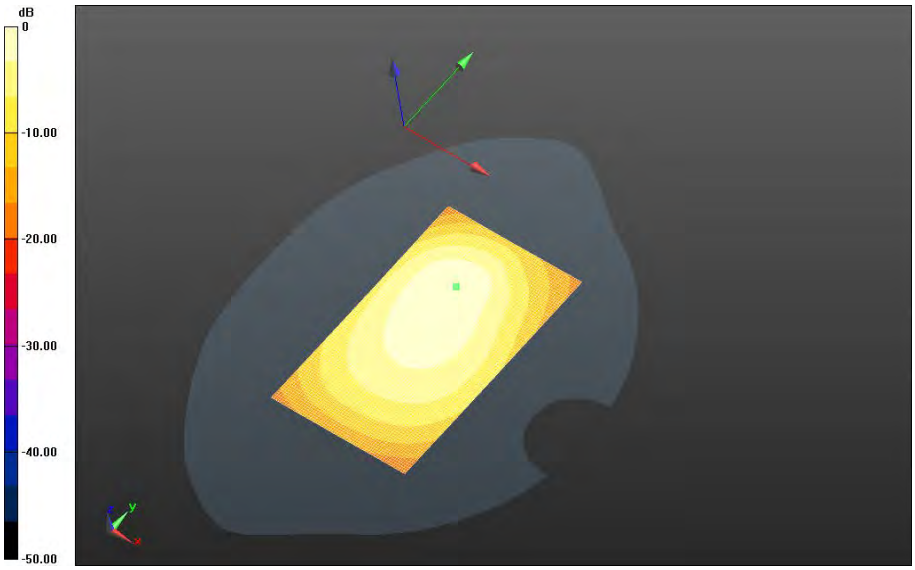

0 dB = 0.772 W/kg = -1.12 dBW/kg

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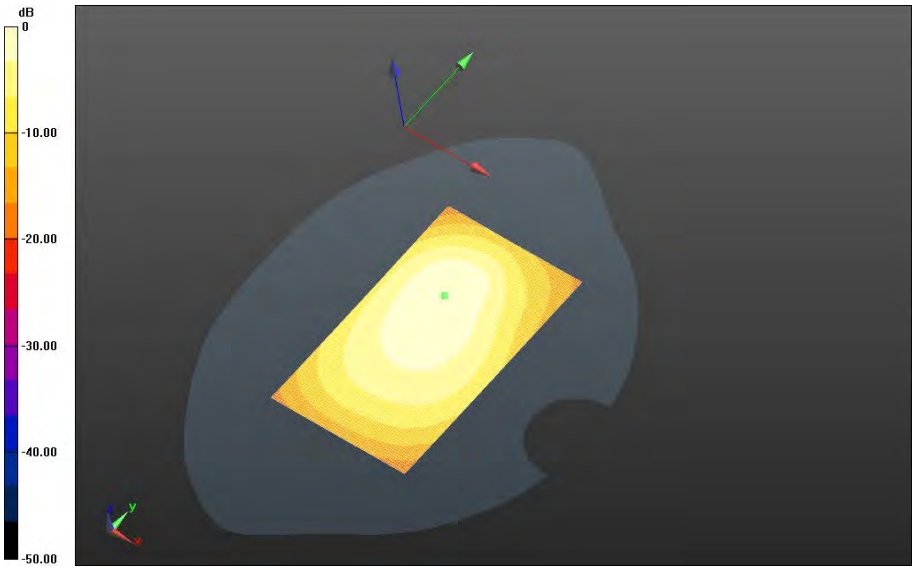
Mobile Hot Spot MSL - LTE Band 5/10mm Device Back - LTE Band 5_chan20525_10MHz_BW_RB1_Offset_Mid_amb_temp_24.2C_liq_temp_22.1C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 23.368 V/m; **Power Drift = 0.042 dB**

Fast SAR: SAR(1g) = 0.679 W/kg; SAR(10g) = 0.456 W/kg
Maximum value of SAR (interpolated) = 0.783 W/kg



0 dB = 0.772 W/kg = -1.12 dBW/kg

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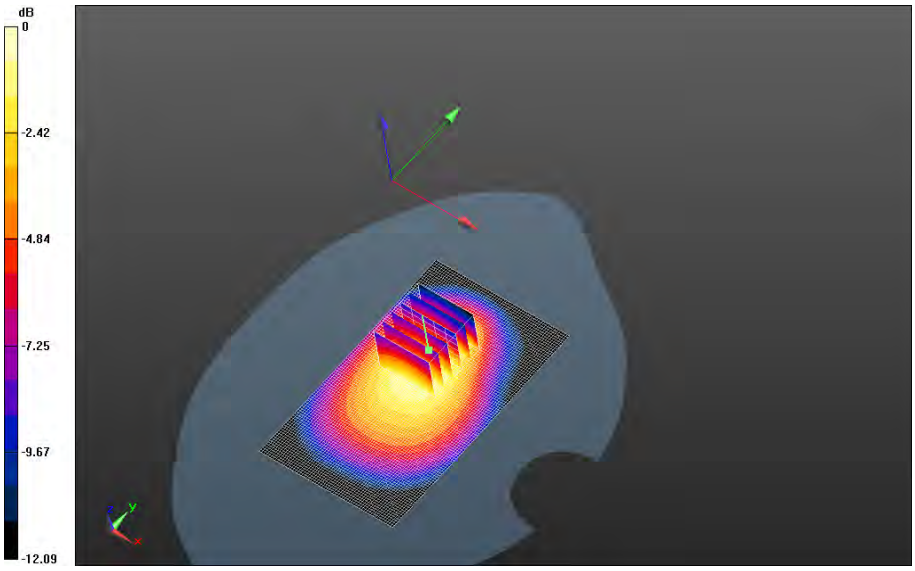
Mobile Hot Spot MSL - LTE Band 5/10mm Device Back - LTE Band 5_chan20600_10MHz_BW_RB1_Offset_Low_amb_temp_24.3C_liq_temp_22.1C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 24.079 V/m; **Power Drift = 0.063 dB**

Fast SAR: SAR(1g) = 0.695 W/kg; SAR(10g) = 0.467 W/kg
Maximum value of SAR (interpolated) = 0.800 W/kg

Mobile Hot Spot MSL - LTE Band 5/10mm Device Back - LTE Band 5_chan20600_10MHz_BW_RB1_Offset_Low_amb_temp_24.3C_liq_temp_22.1C/Zoom Scan (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 24.079 V/m; **Power Drift = 0.063 dB**

Averaged SAR: SAR(1g) = 0.682 W/kg; SAR(10g) = 0.474 W/kg
Maximum value of SAR (interpolated) = 0.984 W/kg



0 dB = 0.783 W/kg = -1.06 dBW/kg

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EDGE/GPRS 850

Date: 7/4/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone R139, Type: Sample, Serial: 2FFEB280

Configuration: Mobile Hot Spot MSL - GPRS 850

Communication System: GSM 850 (0); Communication System Band: GSM 850; Frequency: 824.2 MHz
Medium Parameters used: f=825 MHz; σ = 0.986 S/m; ε_r = 57.621; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.09,6.09,6.09); Calibrated: 1/22/2014;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_1-slot _chan128_amb_temp_22.8C_liq_temp_21.7C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 18.079 V/m; **Power Drift = -0.012 dB**

Fast SAR: SAR(1g) = 0.364 W/kg; SAR(10g) = 0.251 W/kg
Maximum value of SAR (interpolated) = 0.419 W/kg

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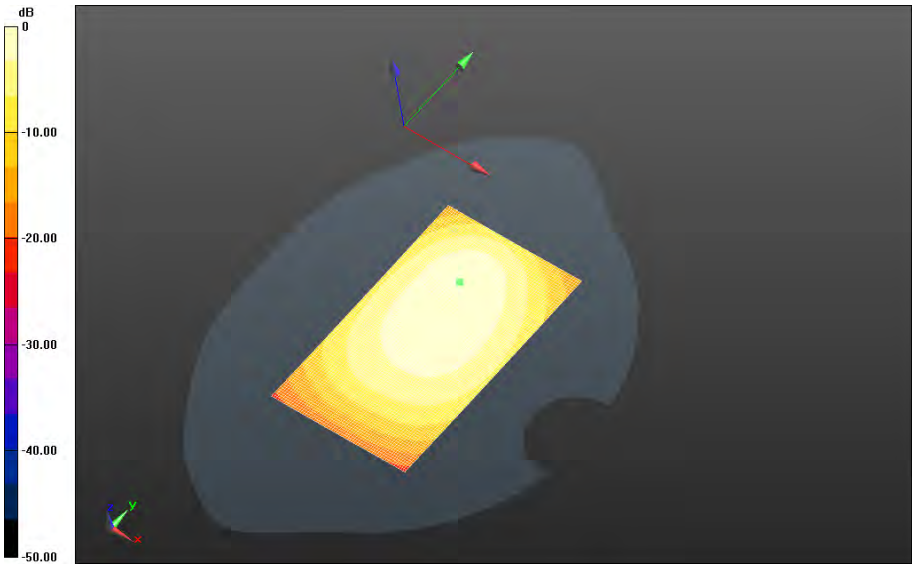

0 dB = 0.419 W/kg = -3.78 dBW/kg

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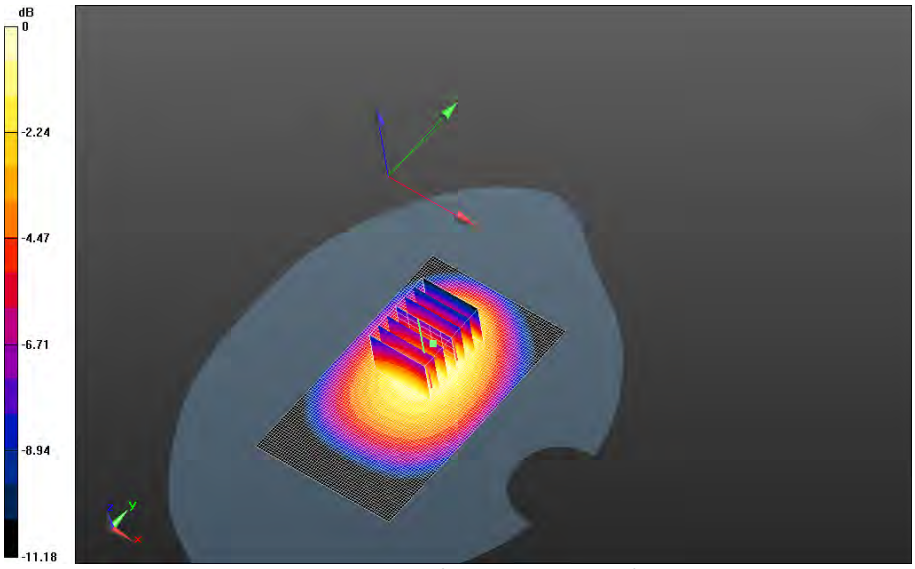
Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_1-slot _chan190_amb_temp_22.8C_liq_temp_21.7C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 18.475 V/m; **Power Drift = 0.036 dB**

Fast SAR: SAR(1g) = 0.370 W/kg; SAR(10g) = 0.257 W/kg
Maximum value of SAR (interpolated) = 0.420 W/kg

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_1-slot _chan190_amb_temp_22.8C_liq_temp_21.7C/Zoom Scan (26x31x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 18.475 V/m; **Power Drift = 0.036 dB**

Averaged SAR: SAR(1g) = 0.390 W/kg; SAR(10g) = 0.285 W/kg
Maximum value of SAR (interpolated) = 0.545 W/kg



0 dB = 0.419 W/kg = -3.78 dBW/kg

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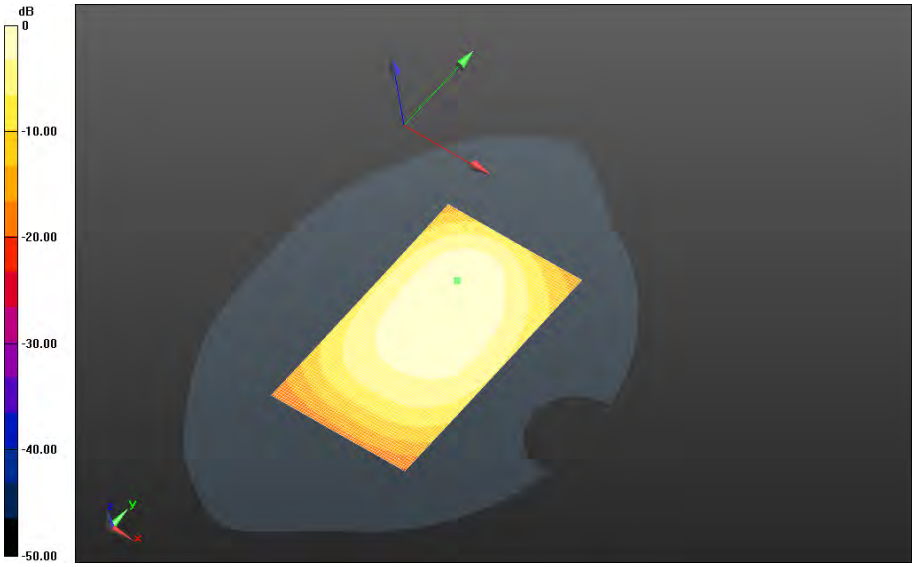
Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_1-slot _chan251_amb_temp_23.2C_liq_temp_21.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 17.716 V/m; **Power Drift = 0.039 dB**

Fast SAR: SAR(1g) = 0.337 W/kg; SAR(10g) = 0.233 W/kg
Maximum value of SAR (interpolated) = 0.387 W/kg



0 dB = 0.437 W/kg = -3.60 dBW/kg

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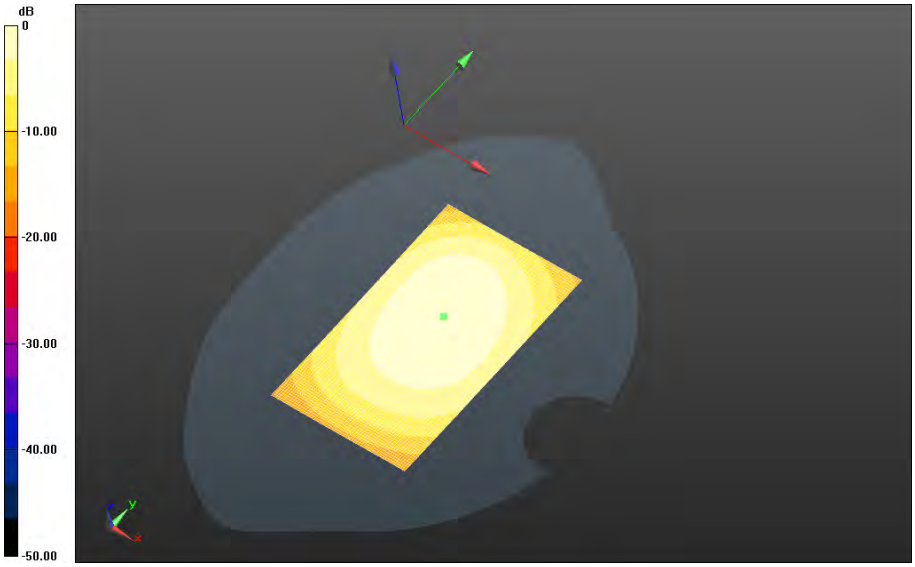
Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_2-slot _chan190_amb_temp_22.8C_liq_temp_21.7C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 16.134 V/m; **Power Drift = -0.015 dB**

Fast SAR: SAR(1g) = 0.250 W/kg; SAR(10g) = 0.175 W/kg
Maximum value of SAR (interpolated) = 0.283 W/kg



0 dB = 0.387 W/kg = -4.12 dBW/kg

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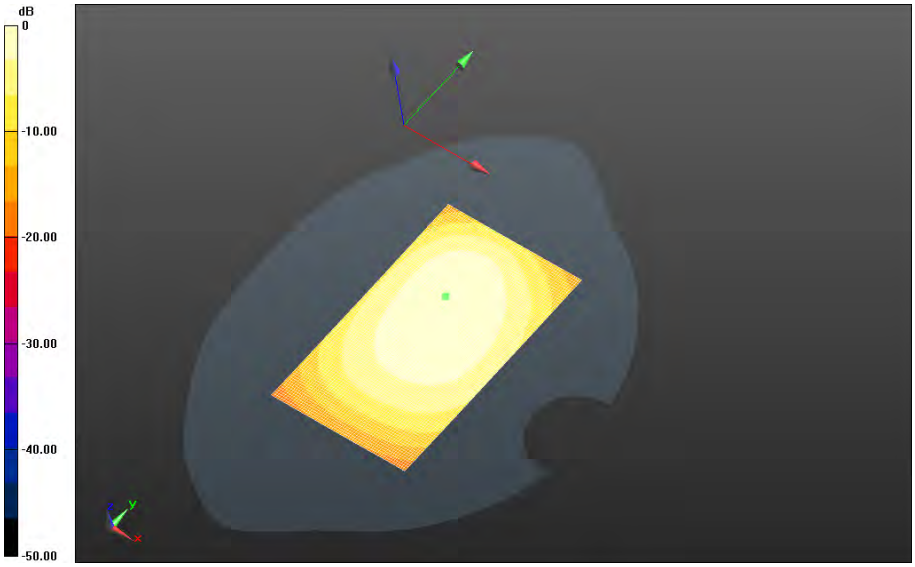
Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_3-slot _chan190_amb_temp_22.8C_liq_temp_21.7C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 17.403 V/m; **Power Drift = -0.072 dB**

Fast SAR: SAR(1g) = 0.318 W/kg; SAR(10g) = 0.222 W/kg
Maximum value of SAR (interpolated) = 0.359 W/kg



0 dB = 0.283 W/kg = -5.48 dBW/kg

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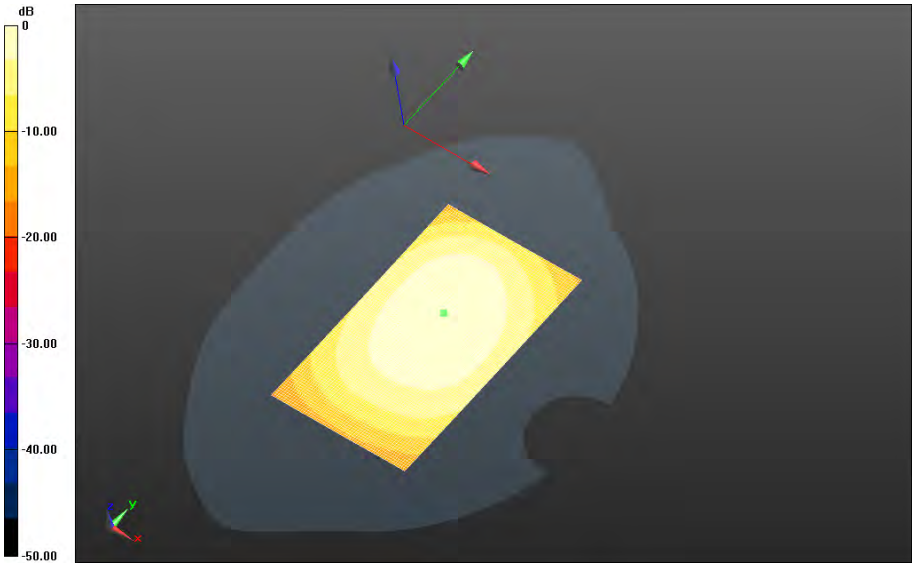
Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_4-slot _chan190_amb_temp_23.2C_liq_temp_21.7C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 15.960 V/m; **Power Drift = -0.025 dB**

Fast SAR: SAR(1g) = 0.245 W/kg; SAR(10g) = 0.172 W/kg
Maximum value of SAR (interpolated) = 0.277 W/kg



0 dB = 0.359 W/kg = -4.45 dBW/kg

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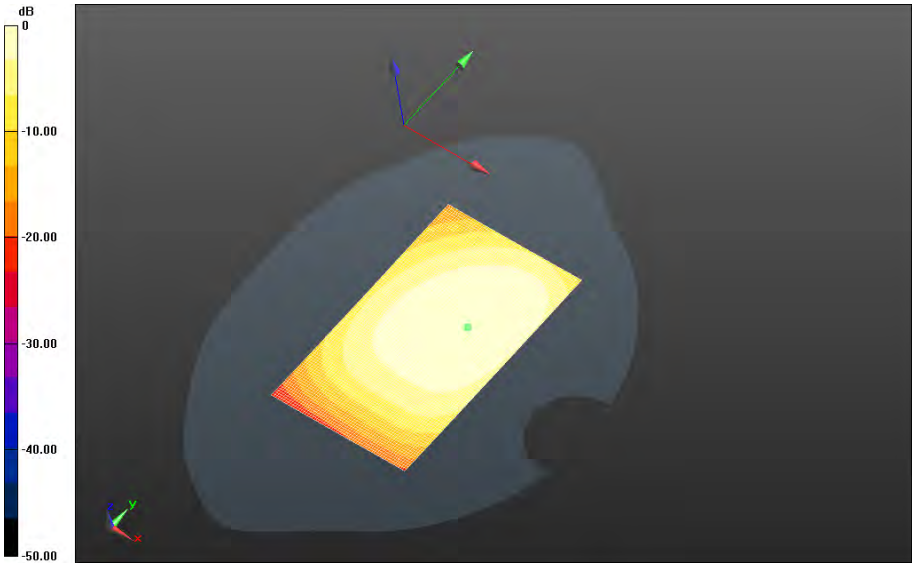
Mobile Hot Spot MSL - GPRS 850/10mm Device Front - GPRS 850_1-slot _chan190_amb_temp_22.8C_liq_temp_21.7/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 16.110 V/m; **Power Drift = -0.00793 dB**

Fast SAR: SAR(1g) = 0.265 W/kg; SAR(10g) = 0.187 W/kg
Maximum value of SAR (interpolated) = 0.300 W/kg



0 dB = 0.277 W/kg = -5.58 dBW/kg

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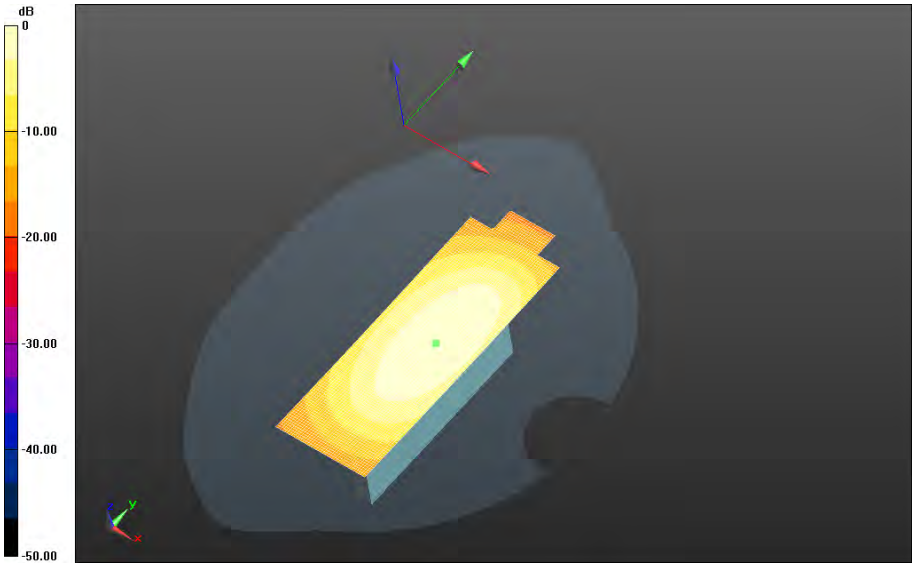
Mobile Hot Spot MSL - GPRS 850/10mm Device Left - GPRS 850_1-slot _chan190_amb_temp_22.8C_liq_temp_21.7C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 18.666 V/m; **Power Drift = -0.022 dB**

Fast SAR: SAR(1g) = 0.298 W/kg; SAR(10g) = 0.203 W/kg
Maximum value of SAR (interpolated) = 0.348 W/kg



0 dB = 0.300 W/kg = -5.23 dBW/kg

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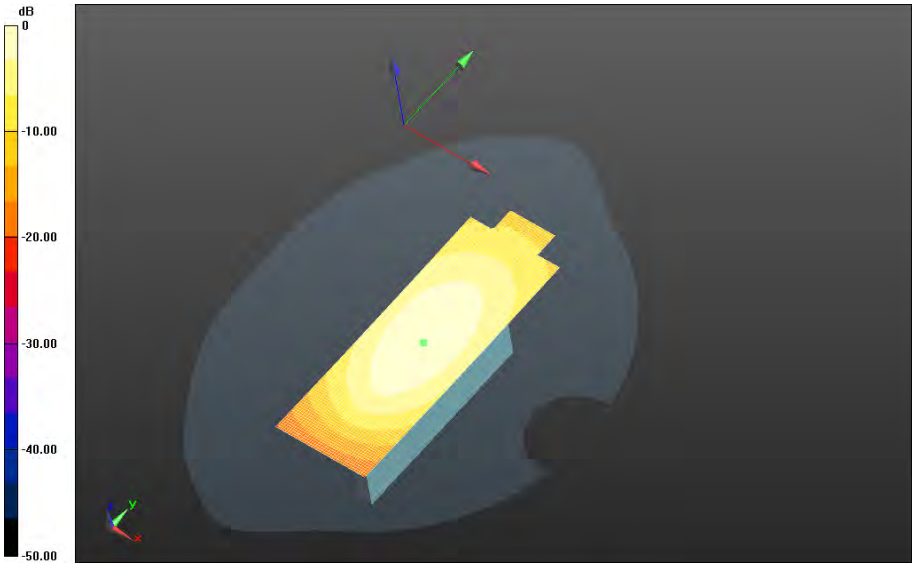
Mobile Hot Spot MSL - GPRS 850/10mm Device Right -GPRS 850_1-slot _chan190_amb_temp_23.4C_liq_temp_21.9C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 15.388 V/m; **Power Drift = 0.056 dB**

Fast SAR: SAR(1g) = 0.189 W/kg; SAR(10g) = 0.126 W/kg
Maximum value of SAR (interpolated) = 0.218 W/kg



0 dB = 0.348 W/kg = -4.58 dBW/kg

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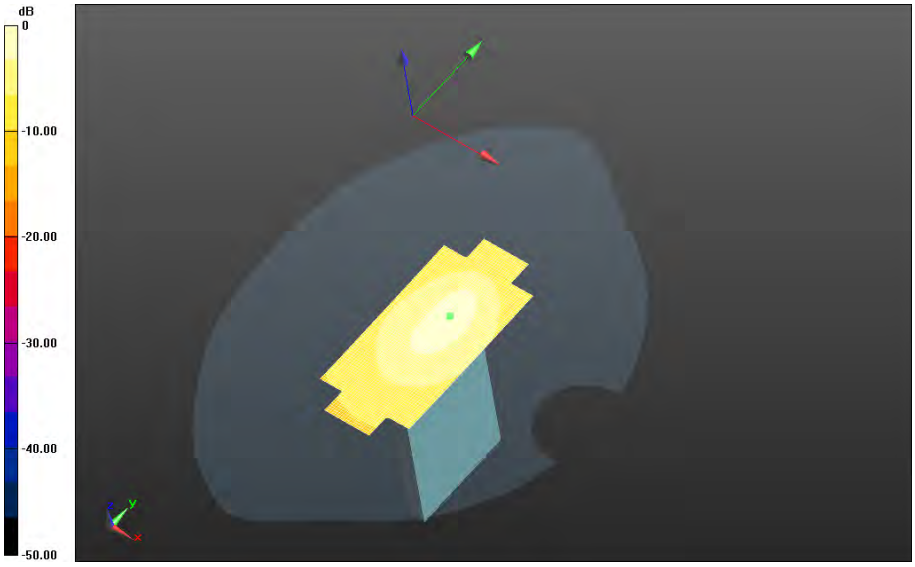
Mobile Hot Spot MSL - GPRS 850/10mm Device Bottom -GPRS 850_1-slot _chan190_amb_temp_23.8C_liq_temp_21.9C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 8.646 V/m; **Power Drift = -0.067 dB**

Fast SAR: SAR(1g) = 0.0781 W/kg; SAR(10g) = 0.0459 W/kg
Maximum value of SAR (interpolated) = 0.0987 W/kg



0 dB = 0.218 W/kg = -6.62 dBW/kg

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GPRS 850 Rev 2

Date: 7/25/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone R139, Type: Sample, Serial: 2FFEC30B

Configuration: Mobile Hot Spot MSL - GPRS 850

Communication System: GSM 850 (0); Communication System Band: GSM 850; Frequency: 824.2 MHz
Medium Parameters used: f=825 MHz; σ = 0.971 S/m; ε_r = 53.691; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.09,6.09,6.09); Calibrated: 1/22/2014;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_1-slot _chan128_amb_temp_22.8C_liq_temp_21.7C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 26.356 V/m; **Power Drift = 0.064 dB**

Fast SAR: SAR(1g) = 0.748 W/kg; SAR(10g) = 0.514 W/kg
Maximum value of SAR (interpolated) = 0.855 W/kg

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_1-slot _chan128_amb_temp_22.8C_liq_temp_21.7C/Zoom Scan (26x31x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 26.356 V/m; **Power Drift = 0.064 dB**

Averaged SAR: SAR(1g) = 0.772 W/kg; SAR(10g) = 0.565 W/kg
Maximum value of SAR (interpolated) = 1.07 W/kg

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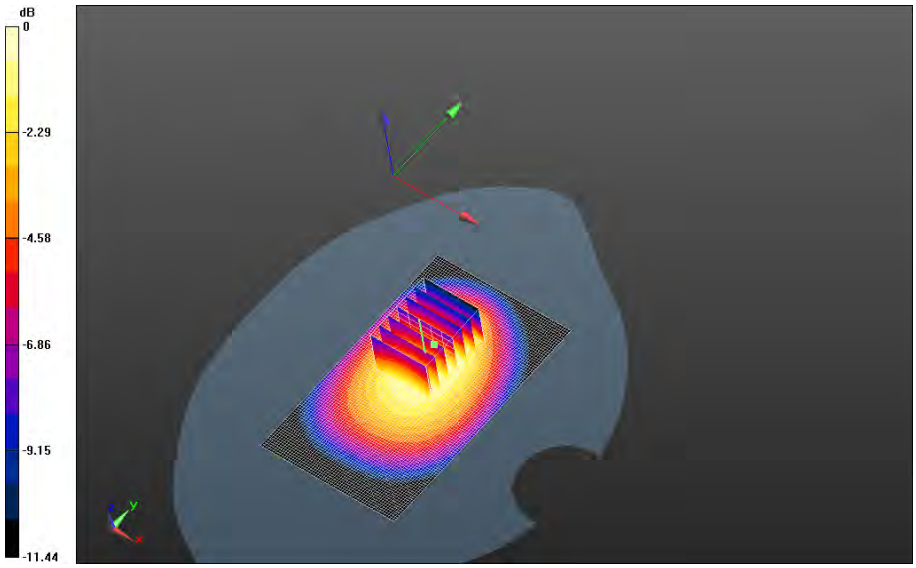

0 dB = 0.868 W/kg = -0.61 dBW/kg

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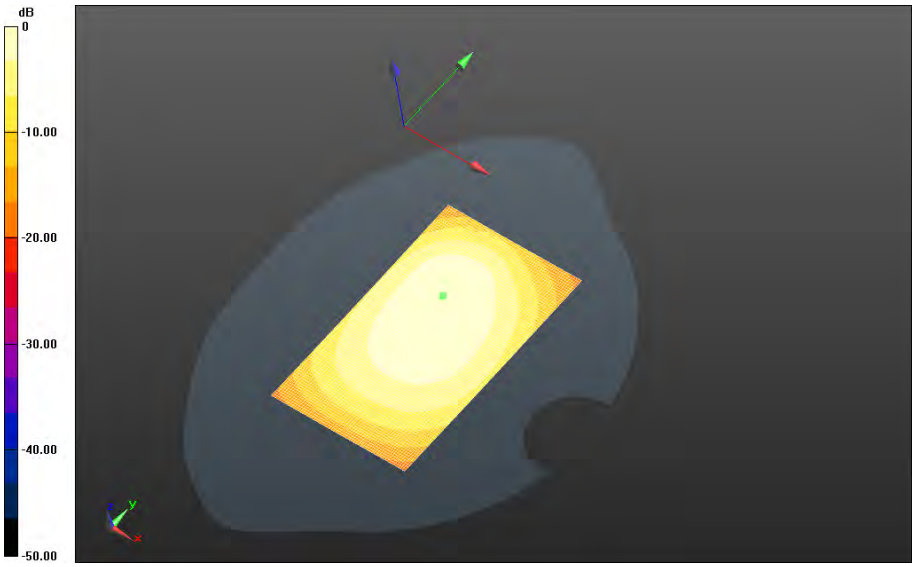
Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_1-slot _chan190_amb_temp_22.8C_liq_temp_21.7C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 27.427 V/m; **Power Drift = 0.011 dB**

Fast SAR: SAR(1g) = 0.744 W/kg; SAR(10g) = 0.515 W/kg
Maximum value of SAR (interpolated) = 0.846 W/kg



0 dB = 0.868 W/kg = -0.61 dBW/kg

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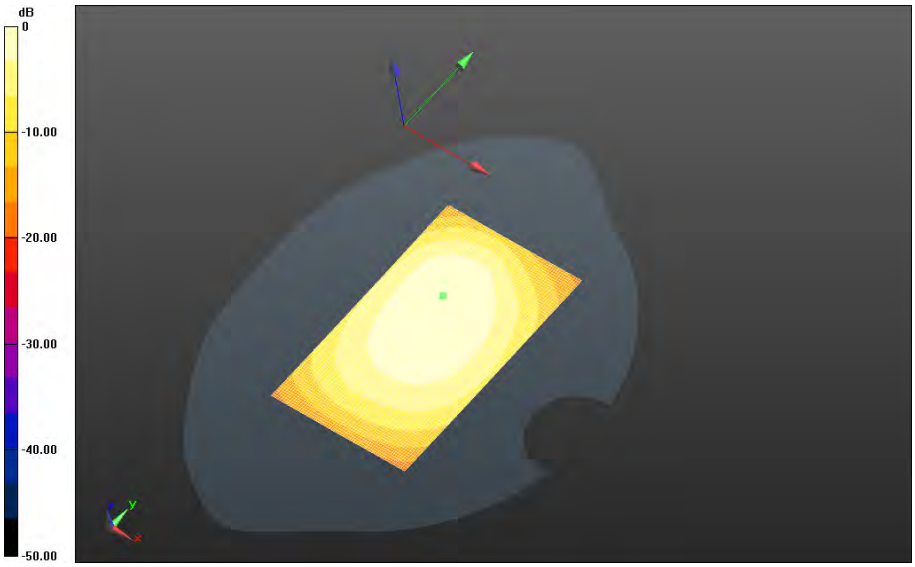
Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_1-slot _chan251_amb_temp_23.2C_liq_temp_21.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 25.452 V/m; **Power Drift = -0.00255 dB**

Fast SAR: SAR(1g) = 0.648 W/kg; SAR(10g) = 0.449 W/kg
Maximum value of SAR (interpolated) = 0.736 W/kg



0 dB = 0.846 W/kg = -0.73 dBW/kg

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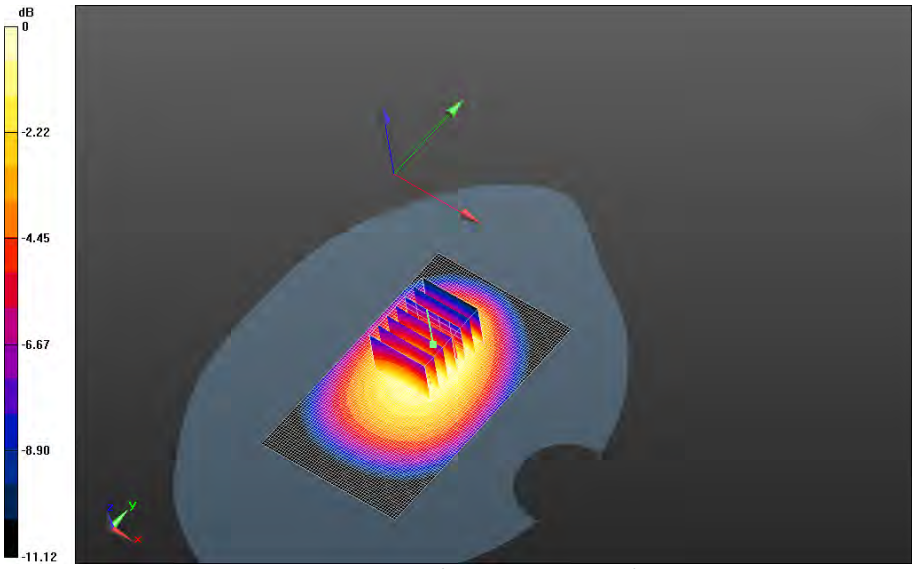
Mobile Hot Spot MSL - GPRS 850/10mm Device Back 2nd Scan - GPRS 850_1-slot _chan128_amb_temp_22.8C_liq_temp_21.7C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 27.764 V/m; **Power Drift = -0.011 dB**

Fast SAR: SAR(1g) = 0.777 W/kg; SAR(10g) = 0.536 W/kg
Maximum value of SAR (interpolated) = 0.884 W/kg

Mobile Hot Spot MSL - GPRS 850/10mm Device Back 2nd Scan - GPRS 850_1-slot _chan128_amb_temp_22.8C_liq_temp_21.7C/Zoom Scan (26x31x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 27.764 V/m; **Power Drift = -0.011 dB**

Averaged SAR: SAR(1g) = 0.765 W/kg; SAR(10g) = 0.562 W/kg
Maximum value of SAR (interpolated) = 1.07 W/kg



0 dB = 0.736 W/kg = -1.33 dBW/kg

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UMTS Band V

Date: 7/3/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFEB280

Configuration: Mobile Hot Spot MSL - UMTS band V

Communication System: WCDMA FDD V (0); Communication System Band: UMTS band V; Frequency: 826.4 MHz
Medium Parameters used: f=826.4 MHz; σ = 0.988 S/m; ε_r = 57.599; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.09,6.09,6.09); Calibrated: 1/22/2014;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Mobile Hot Spot MSL - UMTS band V/10mm Device Back - UMTS band V_chan4132_amb_temp_22.8C_liq_temp_21.7C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 21.974 V/m; **Power Drift = 0.00406 dB**

Fast SAR: SAR(1g) = 0.611 W/kg; SAR(10g) = 0.411 W/kg
Maximum value of SAR (interpolated) = 0.719 W/kg
Mobile Hot Spot MSL - UMTS band V/10mm Device Back - UMTS band V_chan4132_amb_temp_22.8C_liq_temp_21.7C/Zoom Scan (26x31x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 21.974 V/m; **Power Drift = 0.00406 dB**

Averaged SAR: SAR(1g) = 0.586 W/kg; SAR(10g) = 0.401 W/kg
Maximum value of SAR (interpolated) = 0.865 W/kg

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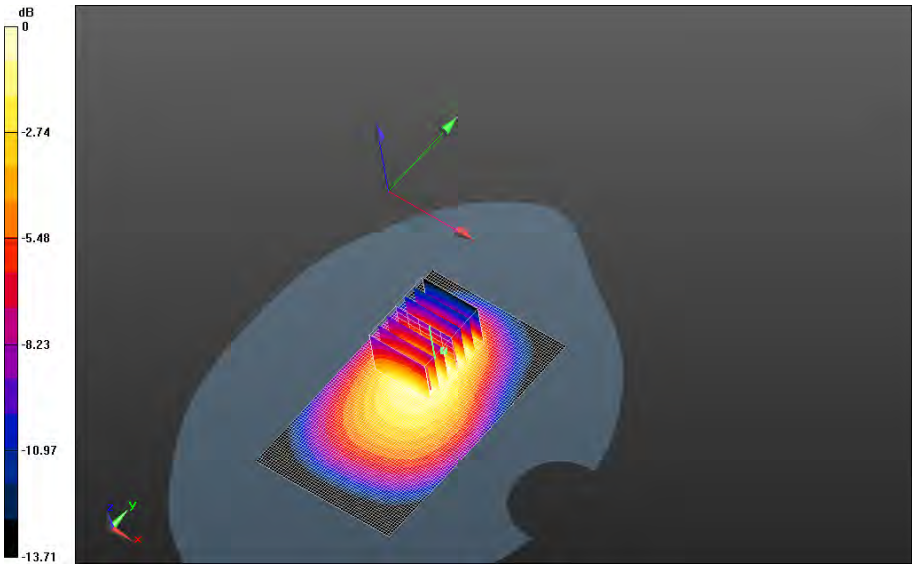

0 dB = 0.665 W/kg = -1.77 dBW/kg

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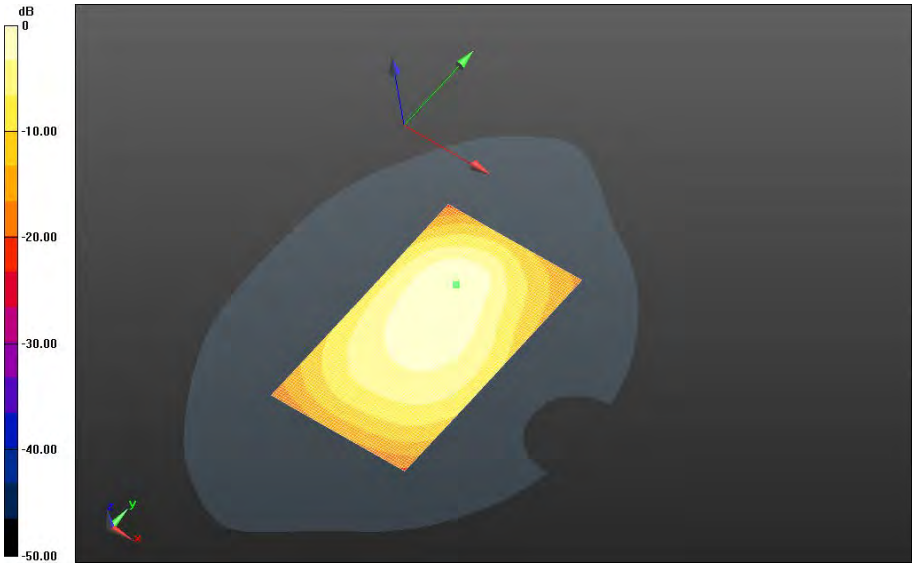
Mobile Hot Spot MSL - UMTS band V/10mm Device Back - UMTS band V_chan4182_amb_temp_22.8C_liq_temp_21.8C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 22.150 V/m; **Power Drift = 0.076 dB**

Fast SAR: SAR(1g) = 0.600 W/kg; SAR(10g) = 0.403 W/kg
Maximum value of SAR (interpolated) = 0.697 W/kg



0 dB = 0.665 W/kg = -1.77 dBW/kg

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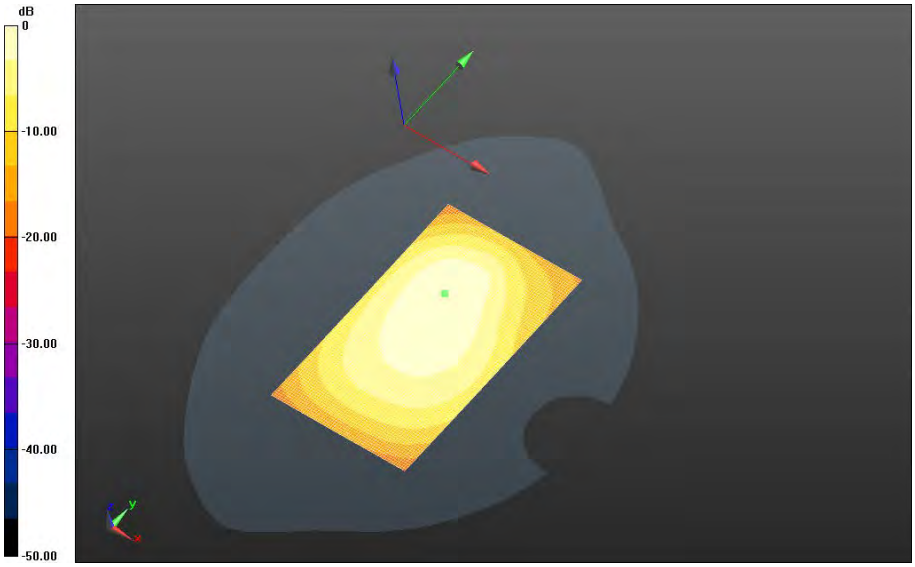
Mobile Hot Spot MSL - UMTS band V/10mm Device Back - UMTS band V_chan4233_amb_temp_22.8C_liq_temp_21.8C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 22.632 V/m; **Power Drift = 0.086 dB**

Fast SAR: SAR(1g) = 0.593 W/kg; SAR(10g) = 0.398 W/kg
Maximum value of SAR (interpolated) = 0.685 W/kg



0 dB = 0.697 W/kg = -1.57 dBW/kg

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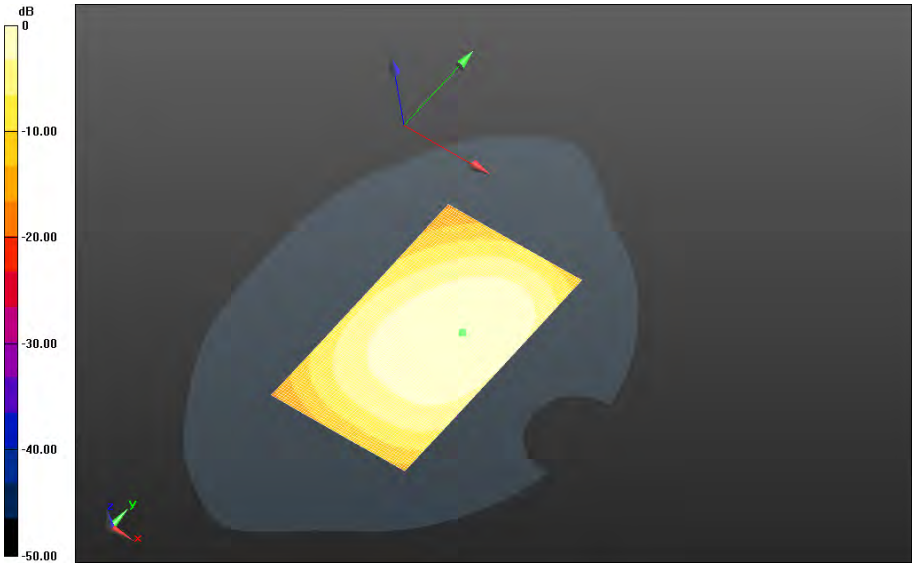
Mobile Hot Spot MSL - UMTS band V/10mm Device Front - UMTS band V_chan4182_amb_temp_22.8C_liq_temp_21.8C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 17.500 V/m; **Power Drift = -0.019 dB**

Fast SAR: SAR(1g) = 0.282 W/kg; SAR(10g) = 0.198 W/kg
Maximum value of SAR (interpolated) = 0.320 W/kg



0 dB = 0.685 W/kg = -1.64 dBW/kg

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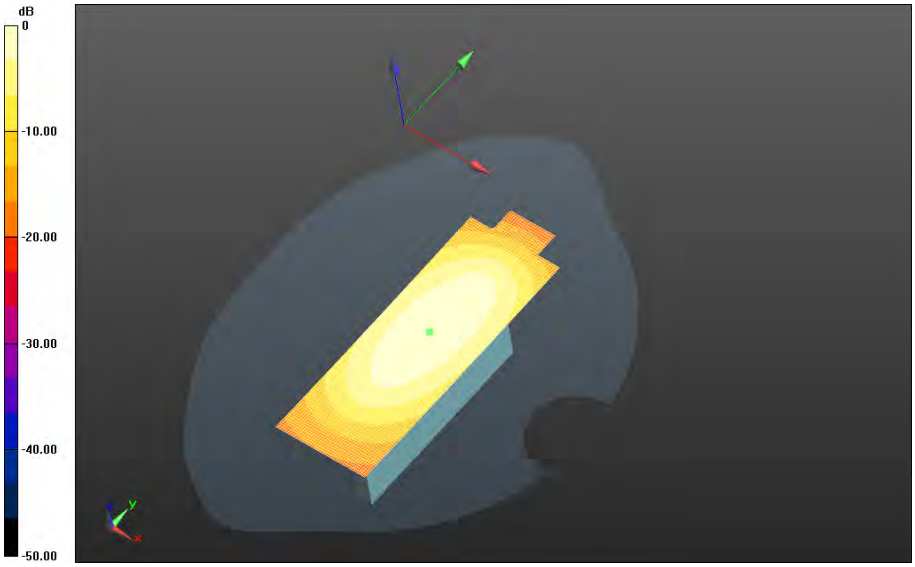
Mobile Hot Spot MSL - UMTS band V/10mm Device Left - UMTS band V_chan4182_amb_temp_23.0C_liq_temp_21.9C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 23.075 V/m; **Power Drift = 0.029 dB**

Fast SAR: SAR(1g) = 0.453 W/kg; SAR(10g) = 0.302 W/kg
Maximum value of SAR (interpolated) = 0.525 W/kg



0 dB = 0.320 W/kg = -4.95 dBW/kg

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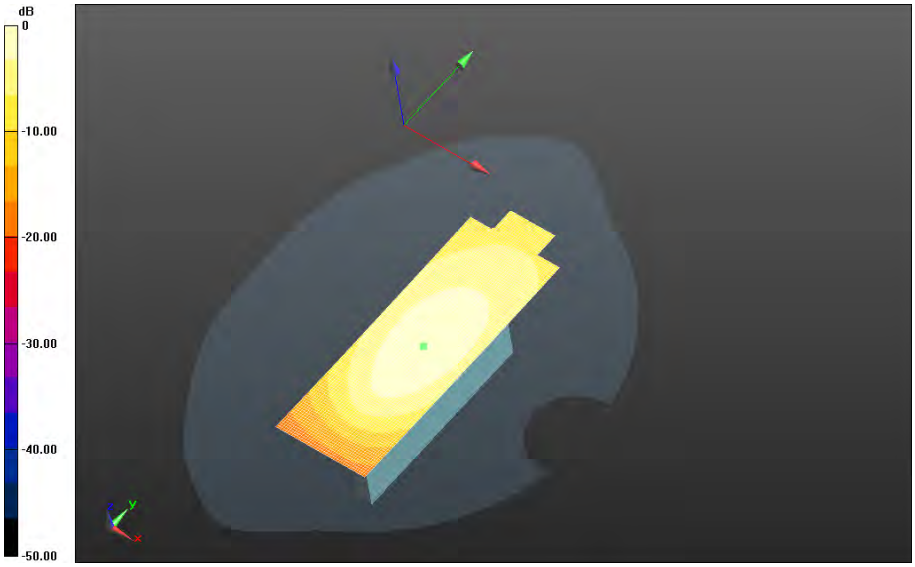
Mobile Hot Spot MSL - UMTS band V/10mm Device Right -UMTS band V_chan4182_amb_temp_22.9C_liq_temp_22.0C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 14.782 V/m; **Power Drift = -0.012 dB**

Fast SAR: SAR(1g) = 0.179 W/kg; SAR(10g) = 0.119 W/kg
Maximum value of SAR (interpolated) = 0.207 W/kg



0 dB = 0.525 W/kg = -2.80 dBW/kg

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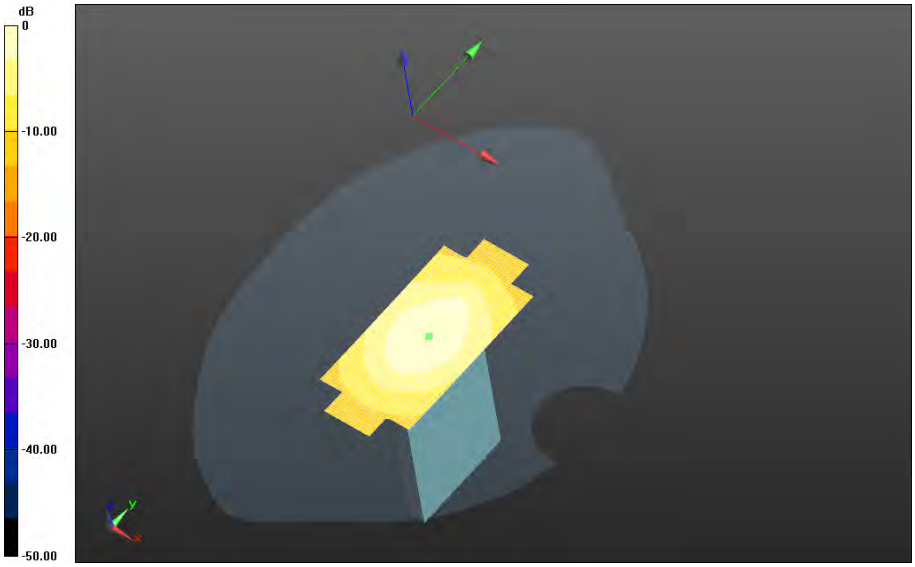
Mobile Hot Spot MSL - UMTS band V/10mm Device Bottom -UMTS band V_chan4182amb_temp_22.9C_liq_temp_21.8C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.633 V/m; **Power Drift = -0.021 dB**

Fast SAR: SAR(1g) = 0.135 W/kg; SAR(10g) = 0.0878 W/kg
Maximum value of SAR (interpolated) = 0.157 W/kg



0 dB = 0.207 W/kg = -6.84 dBW/kg

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UMTS Band V Rev 2

Date: 7/25/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFEC30B

Configuration: Mobile Hot Spot MSL - UMTS band V

Communication System: WCDMA FDD V (0); Communication System Band: UMTS band V; Frequency: 826.4 MHz
Medium Parameters used: f=826.4 MHz; σ = 0.973 S/m; ε_r = 53.680; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.09,6.09,6.09); Calibrated: 1/22/2014;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Mobile Hot Spot MSL - UMTS band V/10mm Device Back - UMTS band V_chan4132_amb_temp_22.8C_liq_temp_21.7C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 26.182 V/m; **Power Drift = -0.00962 dB**

Fast SAR: SAR(1g) = 0.881 W/kg; SAR(10g) = 0.593 W/kg
Maximum value of SAR (interpolated) = 1.03 W/kg

Mobile Hot Spot MSL - UMTS band V/10mm Device Back - UMTS band V_chan4132_amb_temp_22.8C_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 = 26.182 V/m; **Power Drift = -0.00962 dB**

Averaged SAR: SAR(1g) = 0.841 W/kg; SAR(10g) = 0.573 W/kg
Maximum value of SAR (interpolated) = 1.26 W/kg

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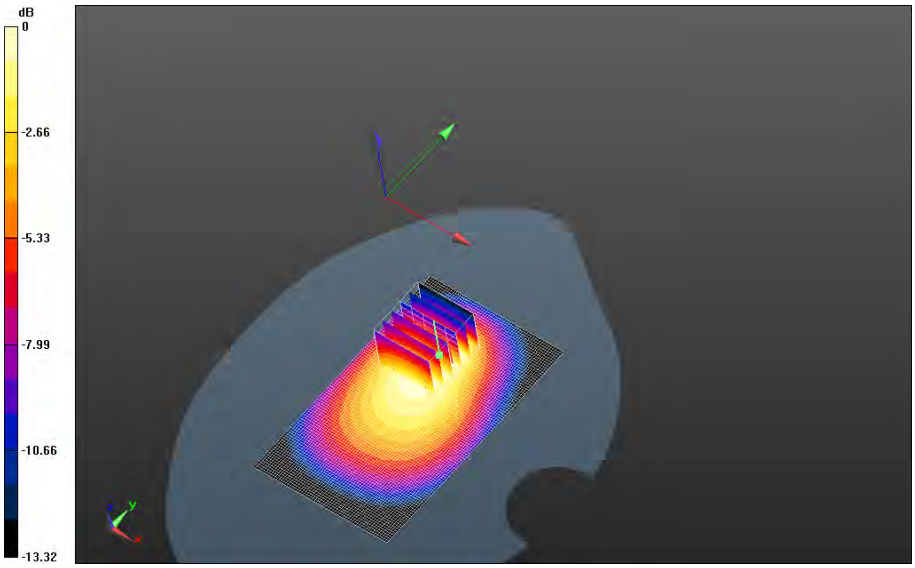

0 dB = 0.951 W/kg = -0.22 dBW/kg

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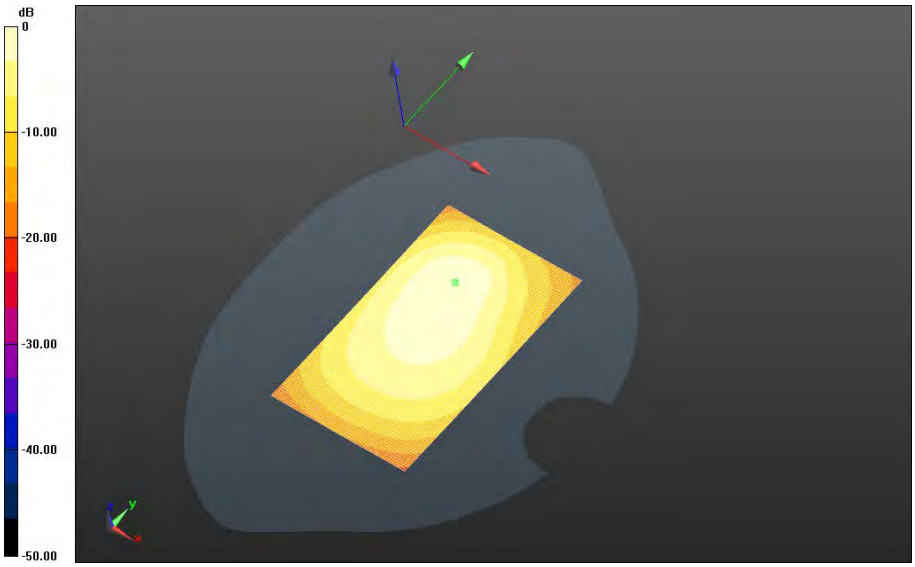
Mobile Hot Spot MSL - UMTS band V/10mm Device Back - UMTS band V_chan4182_amb_temp_22.8C_liq_temp_21.8C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 26.829 V/m; **Power Drift = -0.090 dB**

Fast SAR: SAR(1g) = 0.866 W/kg; SAR(10g) = 0.583 W/kg
Maximum value of SAR (interpolated) = 1.01 W/kg



0 dB = 0.951 W/kg = -0.22 dBW/kg

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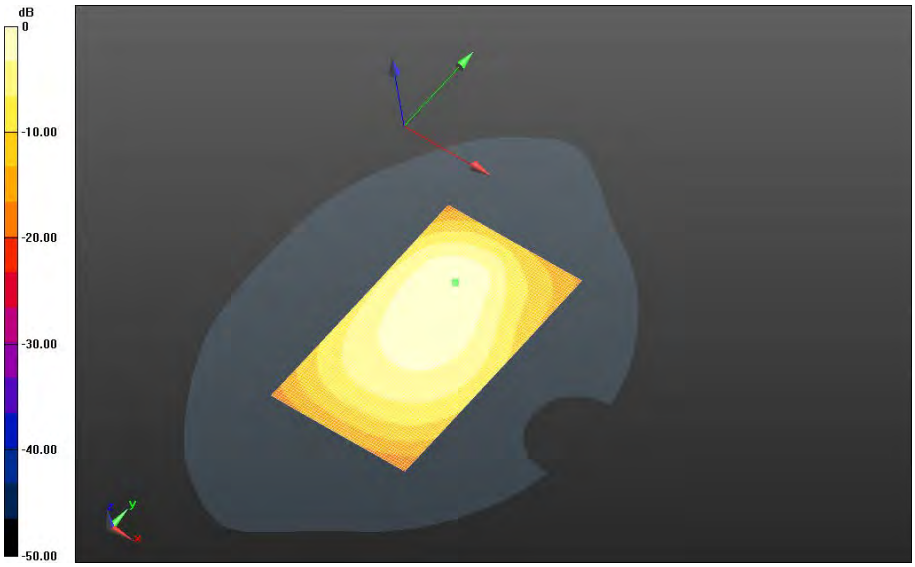
Mobile Hot Spot MSL - UMTS band V/10mm Device Back - UMTS band V_chan4233_amb_temp_22.8C_liq_temp_21.8C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 26.739 V/m; **Power Drift = -0.0021 dB**

Fast SAR: SAR(1g) = 0.842 W/kg; SAR(10g) = 0.571 W/kg
Maximum value of SAR (interpolated) = 0.976 W/kg



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

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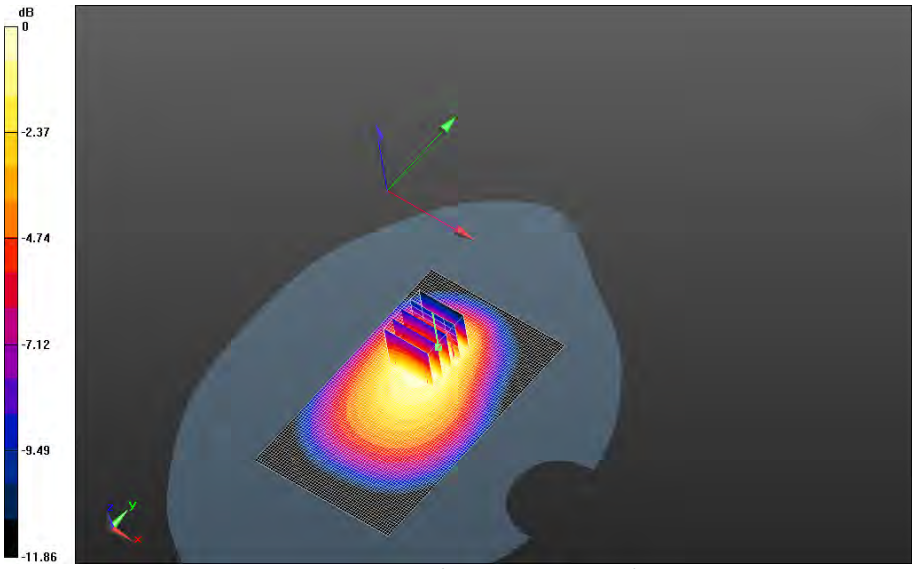
Mobile Hot Spot MSL - UMTS band V/10mm Device Back 2nd Scan - UMTS band V_chan4182_amb_temp_22.8C_liq_temp_21.8C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 25.758 V/m; **Power Drift = 0.00498 dB**

Fast SAR: SAR(1g) = 0.828 W/kg; SAR(10g) = 0.559 W/kg
Maximum value of SAR (interpolated) = 0.965 W/kg

Mobile Hot Spot MSL - UMTS band V/10mm Device Back 2nd Scan - UMTS band V_chan4182_amb_temp_22.8C_liq_temp_21.8C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 25.758 V/m; **Power Drift = 0.00498 dB**

Averaged SAR: SAR(1g) = 0.809 W/kg; SAR(10g) = 0.556 W/kg
Maximum value of SAR (interpolated) = 1.19 W/kg



0 dB = 0.976 W/kg = -0.11 dBW/kg

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LTE Band 4

Date: 6/25/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFEB280

Configuration: Mobile Hot Spot MSL - LTE Band 4

Communication System: LTE 4 (0); Communication System Band: LTE 4; Frequency: 1720 MHz
Medium Parameters used: f=1720 MHz; σ = 1.503 S/m; ε_r = 50.905; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (4.93,4.93,4.93); Calibrated: 1/22/2014;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Mobile Hot Spot MSL - LTE Band 4/10mm Device Back - LTE Band 4_chan20050_20MHz_BW_RB1_Offset_High_amb_temp_22.9C_liq_temp_22.8C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 16.158 V/m; **Power Drift = 0.00737 dB**

Fast SAR: SAR(1g) = 1.16 W/kg; SAR(10g) = 0.641 W/kg
Maximum value of SAR (interpolated) = 1.53 W/kg

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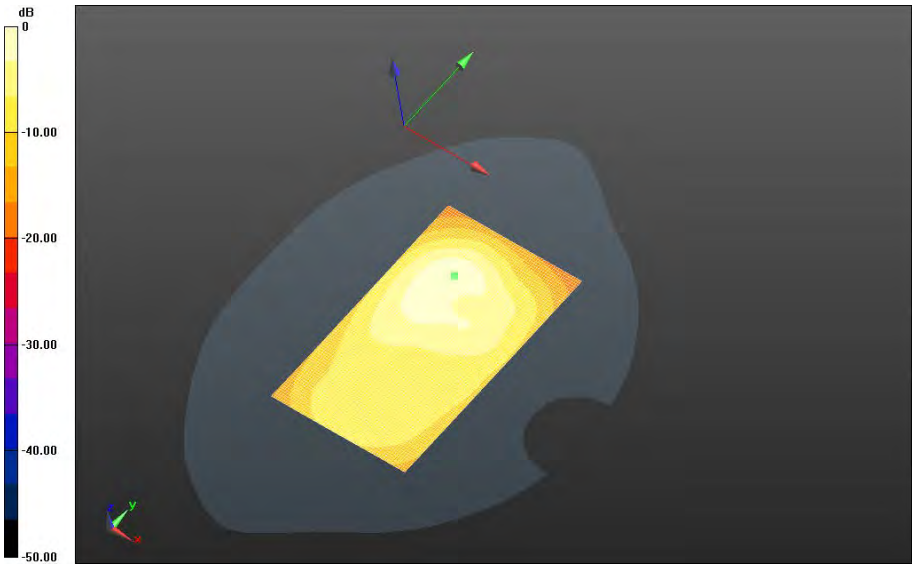

0 dB = 1.53 W/kg = 1.85 dBW/kg

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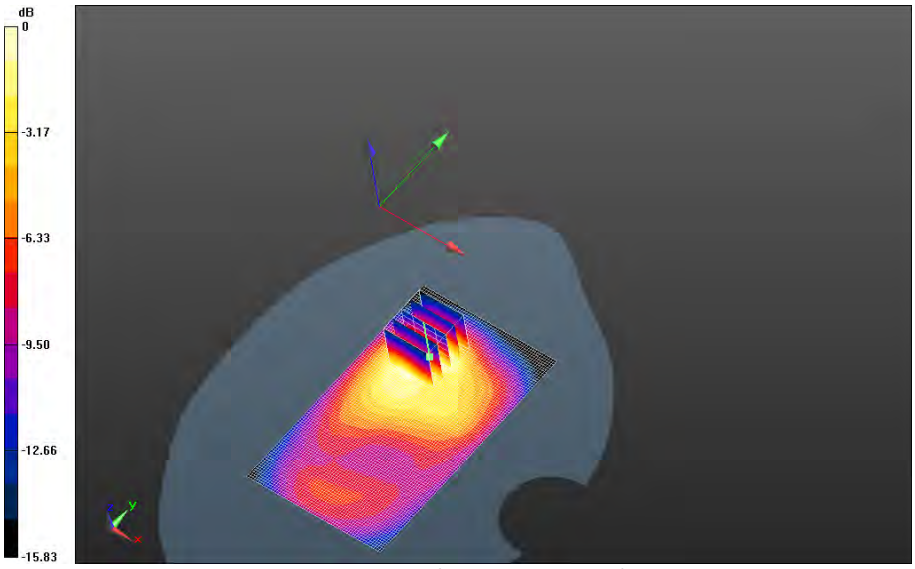
Mobile Hot Spot MSL - LTE Band 4/10mm Device Back - LTE Band 4_chan20175_20MHz_BW_RB1_Offset_Mid_amb_temp_23.6C_liq_temp_22.8C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 16.348 V/m; **Power Drift = 0.026 dB**

Fast SAR: SAR(1g) = 1.17 W/kg; SAR(10g) = 0.647 W/kg
Maximum value of SAR (interpolated) = 1.55 W/kg

Mobile Hot Spot MSL - LTE Band 4/10mm Device Back - LTE Band 4_chan20175_20MHz_BW_RB1_Offset_Mid_amb_temp_23.6C_liq_temp_22.8C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 16.348 V/m; **Power Drift = 0.026 dB**

Averaged SAR: SAR(1g) = 1.09 W/kg; SAR(10g) = 0.603 W/kg
Maximum value of SAR (interpolated) = 1.86 W/kg



0 dB = 1.53 W/kg = 1.85 dBW/kg

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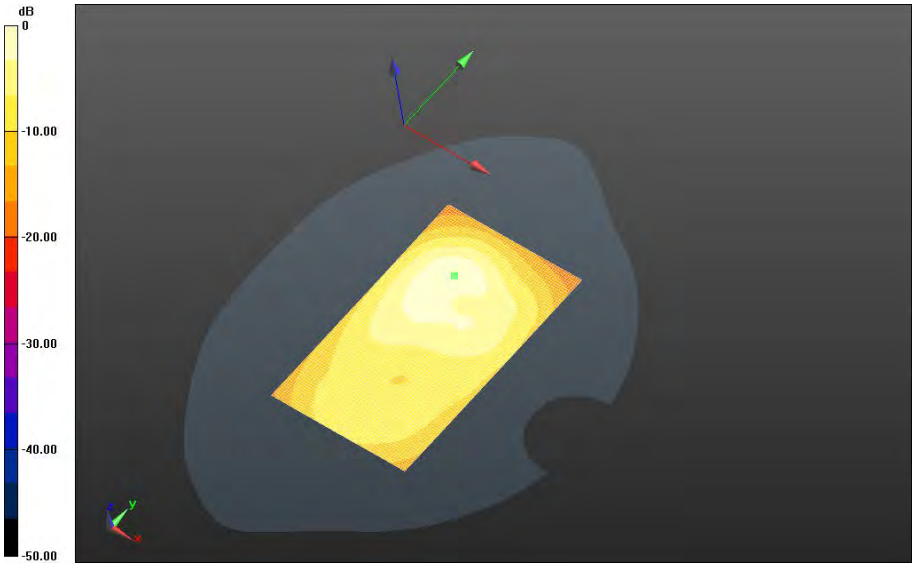
Mobile Hot Spot MSL - LTE Band 4/10mm Device Back - LTE Band 4_chan20300_20MHz_BW_RB1_Offset_Low_amb_temp_23.6C_liq_temp_23.0C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 15.984 V/m; **Power Drift = 0.011 dB**

Fast SAR: SAR(1g) = 1.14 W/kg; SAR(10g) = 0.626 W/kg
Maximum value of SAR (interpolated) = 1.50 W/kg



0 dB = 1.32 W/kg = 1.21 dBW/kg

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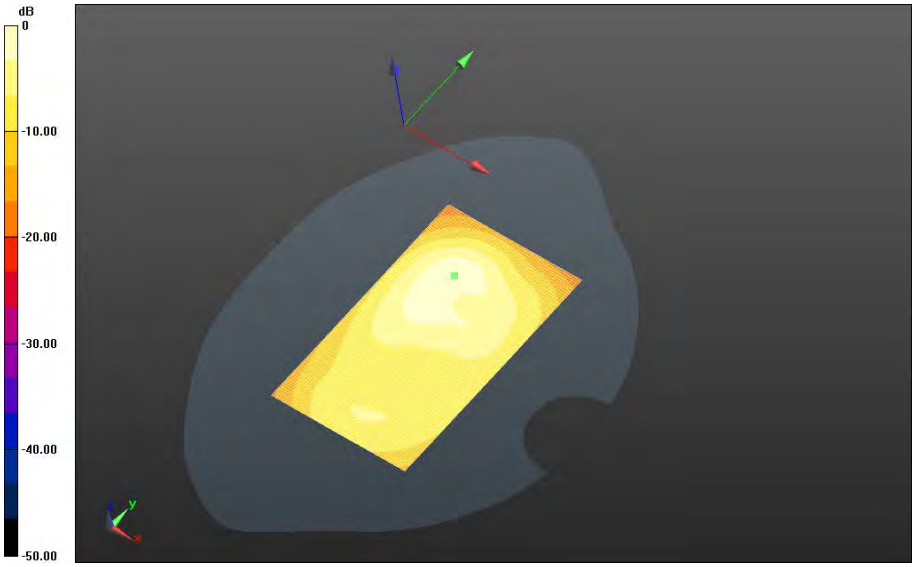
Mobile Hot Spot MSL - LTE Band 4/10mm Device Back - LTE Band 4_chan20050_20MHz_BW_RB50_Offset_High_amb_temp_22.9C_liq_temp_22.8C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 14.982 V/m; **Power Drift = -0.0015 dB**

Fast SAR: SAR(1g) = 0.992 W/kg; SAR(10g) = 0.549 W/kg
Maximum value of SAR (interpolated) = 1.31 W/kg



0 dB = 1.50 W/kg = 1.76 dBW/kg

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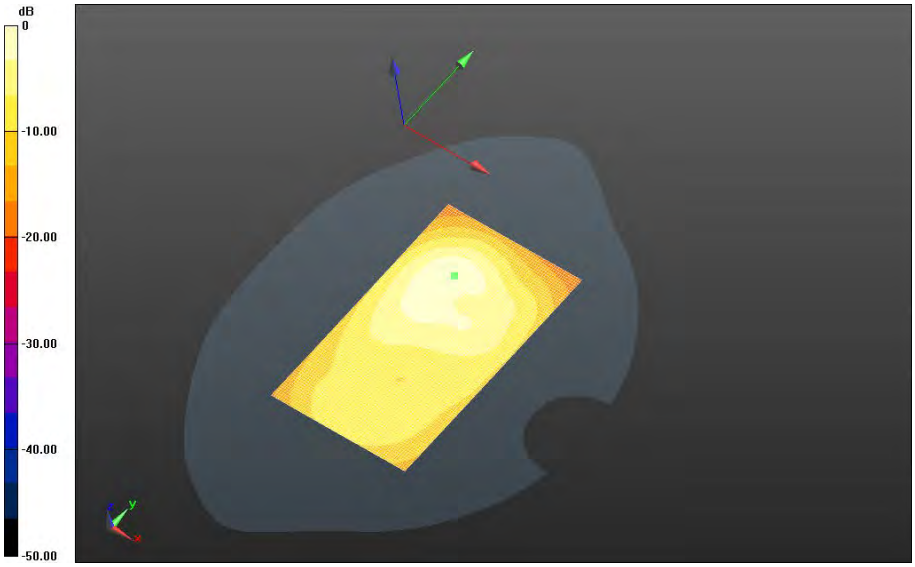
Mobile Hot Spot MSL - LTE Band 4/10mm Device Back - LTE Band 4_chan20175_20MHz_BW_RB50_Offset_Low_amb_temp_23.3C_liq_temp_22.8C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 15.287 V/m; **Power Drift = 0.020 dB**

Fast SAR: SAR(1g) = 1.05 W/kg; SAR(10g) = 0.580 W/kg
Maximum value of SAR (interpolated) = 1.38 W/kg



0 dB = 1.31 W/kg = 1.17 dBW/kg

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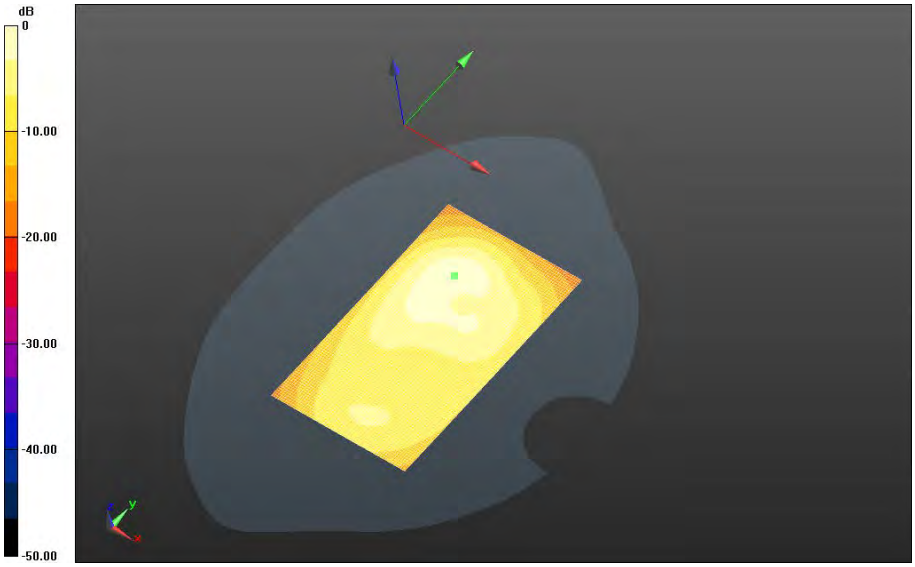
Mobile Hot Spot MSL - LTE Band 4/10mm Device Back - LTE Band 4_chan20300_20MHz_BW_RB50_Offset_High_amb_temp_22.9C_liq_temp_22.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 14.413 V/m; **Power Drift = 0.081 dB**

Fast SAR: SAR(1g) = 0.945 W/kg; SAR(10g) = 0.513 W/kg
Maximum value of SAR (interpolated) = 1.24 W/kg



0 dB = 1.38 W/kg = 1.40 dBW/kg

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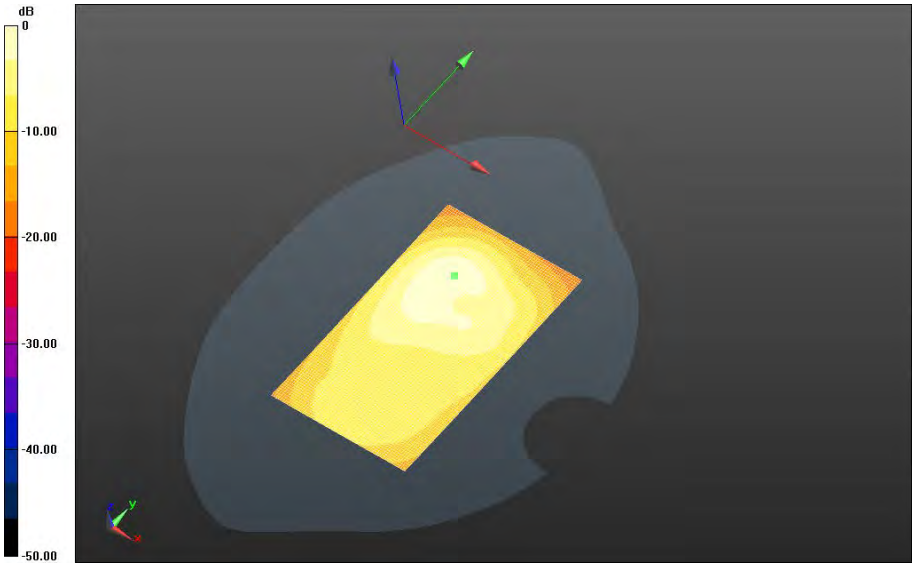
Mobile Hot Spot MSL - LTE Band 4/10mm Device Back - LTE Band 4_chan20175_20MHz_BW_RB100_Offset_Low_amb_temp_22.9C_liq_temp_22.8C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 15.483 V/m; **Power Drift = -0.025 dB**

Fast SAR: SAR(1g) = 1.05 W/kg; SAR(10g) = 0.578 W/kg
Maximum value of SAR (interpolated) = 1.38 W/kg



0 dB = 1.24 W/kg = 0.93 dBW/kg

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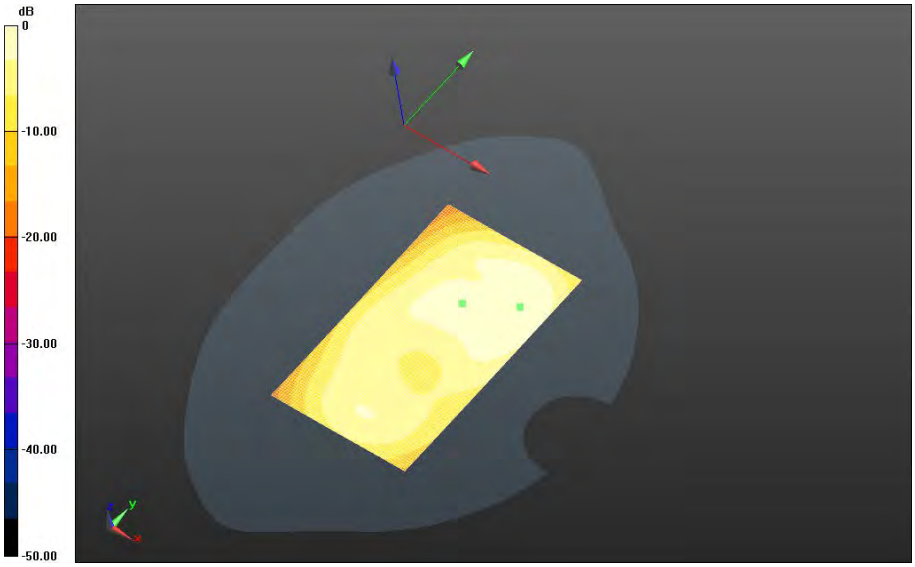
Mobile Hot Spot MSL - LTE Band 4/10mm Device Front - LTE Band 4_chan20175_20MHz_BW_RB1_Offset_Mid_amb_temp_22.7C_liq_temp_22.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.343 V/m; **Power Drift = -0.013 dB**

Fast SAR: SAR(1g) = 0.675 W/kg; SAR(10g) = 0.398 W/kg
Maximum value of SAR (interpolated) = 0.828 W/kg



0 dB = 1.38 W/kg = 1.40 dBW/kg

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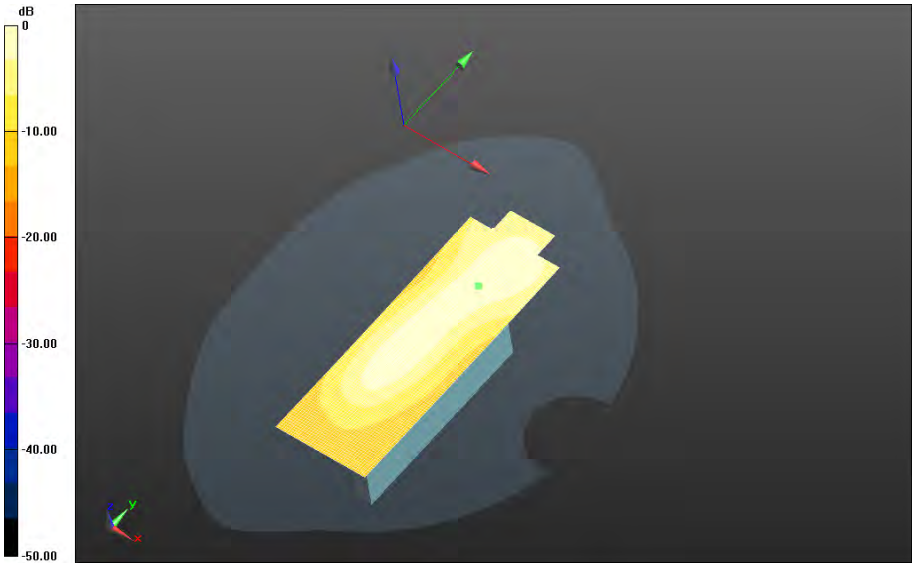
Mobile Hot Spot MSL - LTE Band 4/10mm Device Left - LTE Band 4_chan20175_20MHz_BW_RB1_Offset_Mid_amb_temp_22.7C_liq_temp_22.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 14.250 V/m; **Power Drift = 0.082 dB**

Fast SAR: SAR(1g) = 0.300 W/kg; SAR(10g) = 0.172 W/kg
Maximum value of SAR (interpolated) = 0.374 W/kg



0 dB = 0.828 W/kg = -0.82 dBW/kg

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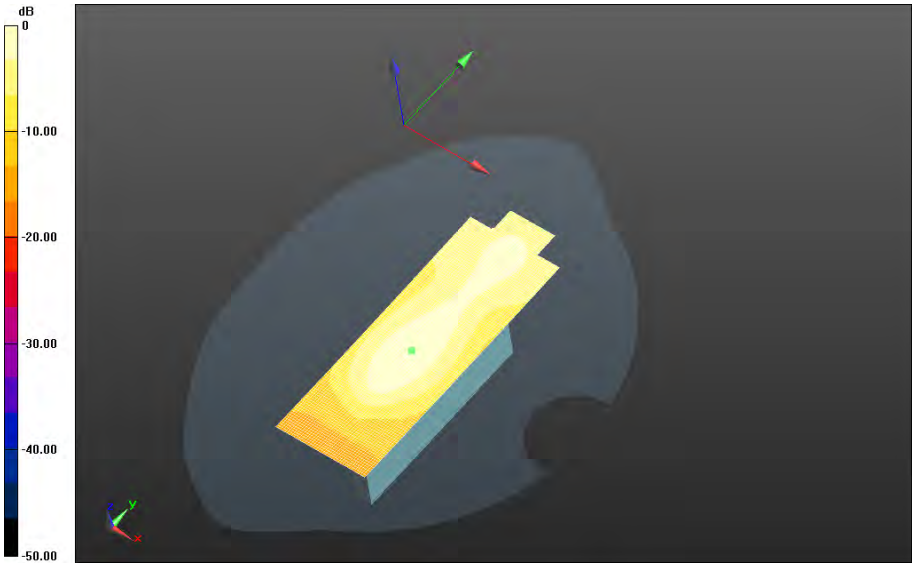
Mobile Hot Spot MSL - LTE Band 4/10mm Device Right -LTE Band 4_chan20175_20MHz_BW_RB1_Offset_Mid_amb_temp_22.6C_liq_temp_22.5C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 13.364 V/m; **Power Drift = 0.00678 dB**

Fast SAR: SAR(1g) = 0.215 W/kg; SAR(10g) = 0.124 W/kg
Maximum value of SAR (interpolated) = 0.266 W/kg



0 dB = 0.374 W/kg = -4.27 dBW/kg

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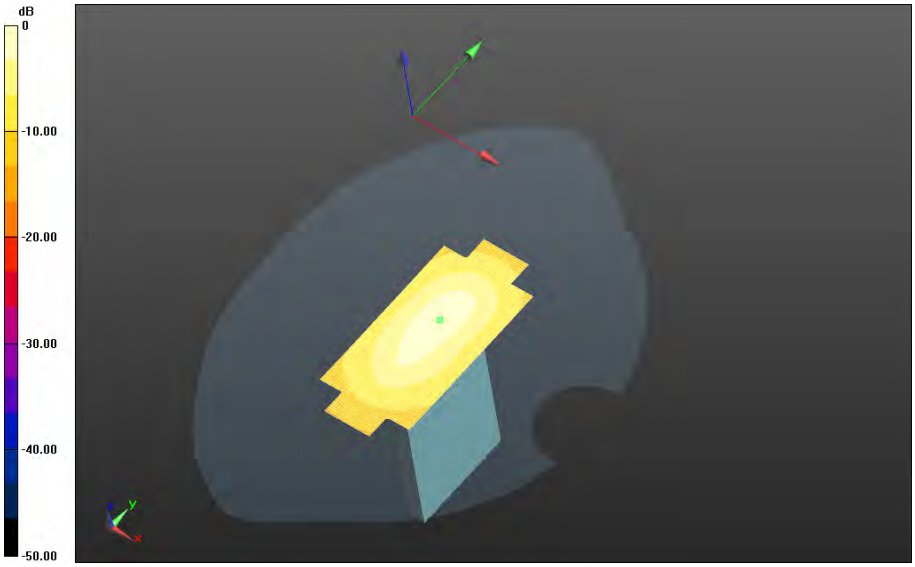
Mobile Hot Spot MSL - LTE Band 4/10mm Device Bottom - LTE Band 4_chan20175_20MHz_BW_RB1_Offset_Mid_amb_temp_22.6C_liq_temp_22.5C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 23.690 V/m; **Power Drift = 0.039 dB**

Fast SAR: SAR(1g) = 0.738 W/kg; SAR(10g) = 0.405 W/kg
Maximum value of SAR (interpolated) = 0.936 W/kg



0 dB = 0.266 W/kg = -5.75 dBW/kg

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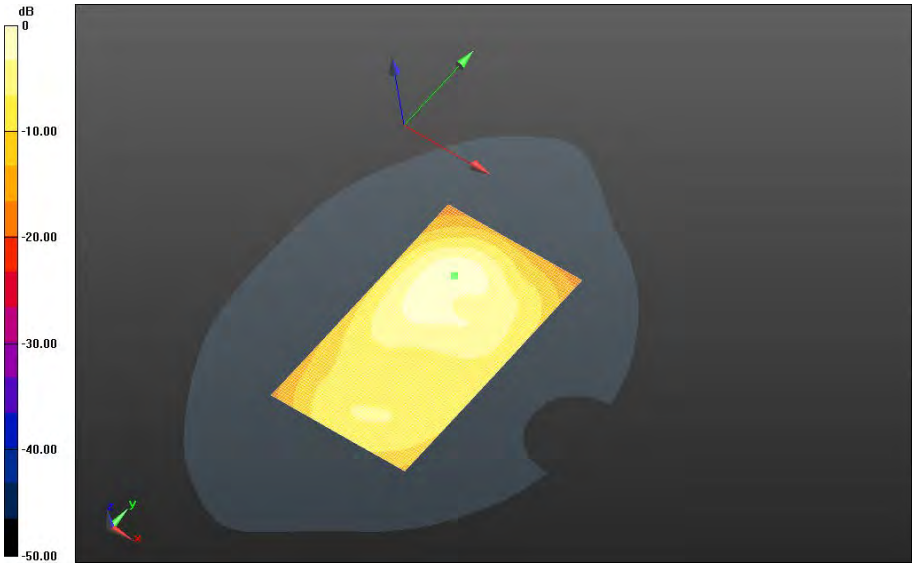
Mobile Hot Spot MSL - LTE Band 4/Headset 10mm Device Back - LTE Band 4_chan20050_20MHz_BW_RB1_Offset_High_amb_temp_22.9C_liq_temp_22.8C 2/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 15.868 V/m; **Power Drift = 0.034 dB**

Fast SAR: SAR(1g) = 1.09 W/kg; SAR(10g) = 0.608 W/kg
Maximum value of SAR (interpolated) = 1.43 W/kg



0 dB = 0.936 W/kg = -0.29 dBW/kg

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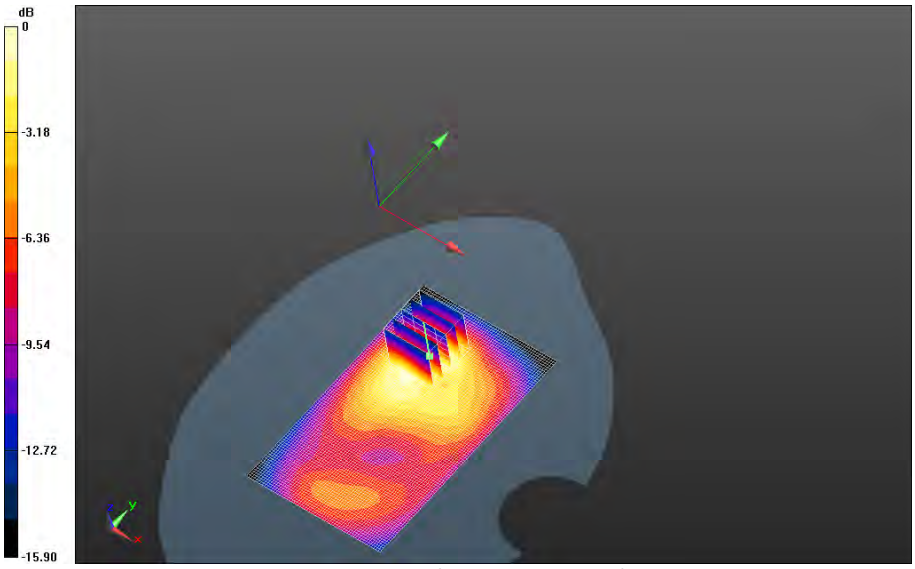
Mobile Hot Spot MSL - LTE Band 4/10mm 2nd Scan_Device Back - LTE Band 4_chan20050_20MHz_BW_RB1_Offset_High_amb_temp_22.9C_liq_temp_22.8C 2/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 15.740 V/m; **Power Drift = -0.034 dB**

Fast SAR: SAR(1g) = 1.08 W/kg; SAR(10g) = 0.599 W/kg
Maximum value of SAR (interpolated) = 1.40 W/kg

Mobile Hot Spot MSL - LTE Band 4/10mm 2nd Scan_Device Back - LTE Band 4_chan20050_20MHz_BW_RB1_Offset_High_amb_temp_22.9C_liq_temp_22.8C 2/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 15.740 V/m; **Power Drift = -0.034 dB**

Averaged SAR: SAR(1g) = 1.02 W/kg; SAR(10g) = 0.573 W/kg
Maximum value of SAR (interpolated) = 1.74 W/kg



0 dB = 1.43 W/kg = 1.55 dBW/kg

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Date: 7/28/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFEB280

Configuration: Mobile Hot Spot MSL - LTE Band 4 (2)

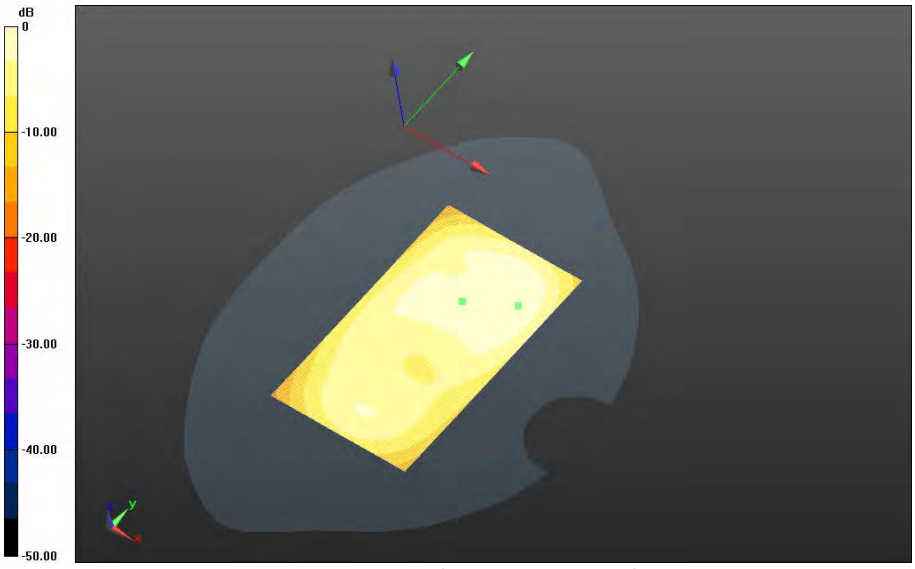
Communication System: LTE 4 (0); Communication System Band: LTE 4; Frequency: 1720 MHz
Medium Parameters used: f=1720 MHz; σ = 1.500 S/m; ε_r = 50.885; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (4.93,4.93,4.93); Calibrated: 1/22/2014;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Mobile Hot Spot MSL - LTE Band 4 (2)/10mm Device Front - LTE Band 4_chan20050_20MHz_BW_RB1_Offset_High_amb_temp_22.7C_liq_temp_22.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 13.242 V/m; **Power Drift = 0.088 dB**

Fast SAR: SAR(1g) = 0.784 W/kg; SAR(10g) = 0.470 W/kg; Secondary SAR(1g) = 0.771 W/kg
Maximum value of SAR (interpolated) = 0.983 W/kg



0 dB = 0.983 W/kg = -0.07 dBW/kg

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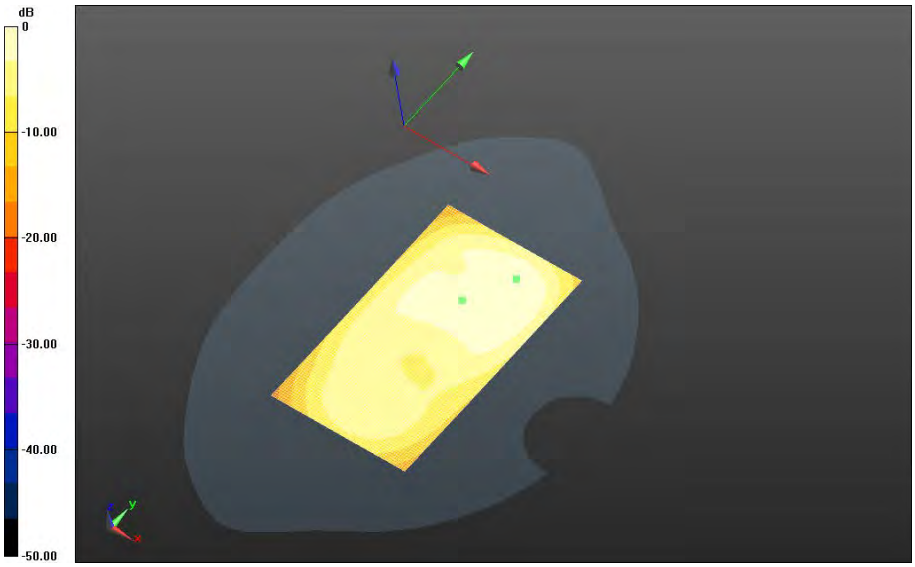
Mobile Hot Spot MSL - LTE Band 4 (2)/10mm Device Front - LTE Band 4_chan20300_20MHz_BW_RB1_Offset_Low_amb_temp_22.7C_liq_temp_22.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.955 V/m; **Power Drift = 0.019 dB**

Fast SAR: SAR(1g) = 0.743 W/kg; SAR(10g) = 0.446 W/kg; Secondary SAR(1g) = 0.738 W/kg
Maximum value of SAR (interpolated) = 0.940 W/kg



0 dB = 0.983 W/kg = -0.07 dBW/kg

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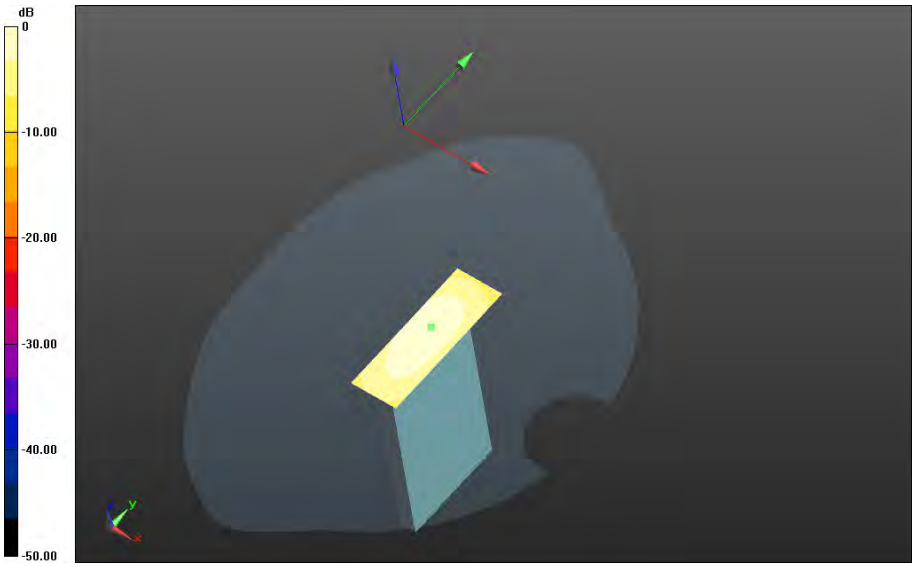
Mobile Hot Spot MSL - LTE Band 4 (2)/10mm Device Bottom - LTE Band 4_chan20050_20MHz_BW_RB1_Offset_High_amb_temp_22.7C_liq_temp_22.6C 2/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 24.015 V/m; **Power Drift = -0.079 dB**

Fast SAR: SAR(1g) = 0.719 W/kg; SAR(10g) = 0.424 W/kg; Secondary SAR(1g) = 0.738 W/kg
Maximum value of SAR (interpolated) = 0.923 W/kg



0 dB = 0.940 W/kg = -0.27 dBW/kg

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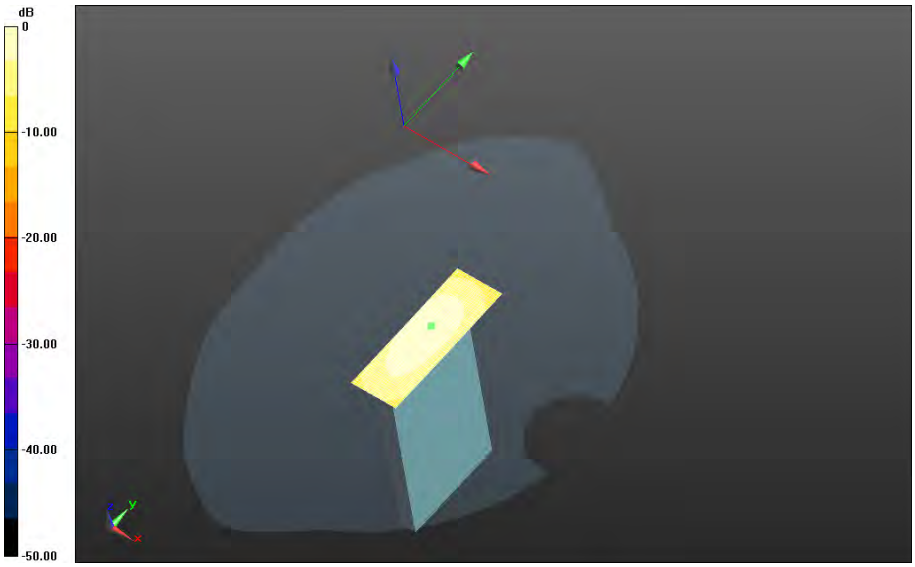
Mobile Hot Spot MSL - LTE Band 4 (2)/10mm Device Bottom - LTE Band 4_chan20300_20MHz_BW_RB1_Offset_Low_amb_temp_22.7C_liq_temp_22.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 23.965 V/m; **Power Drift = -0.092 dB**

Fast SAR: SAR(1g) = 0.741 W/kg; SAR(10g) = 0.436 W/kg; Secondary SAR(1g) = 0.738 W/kg
Maximum value of SAR (interpolated) = 0.957 W/kg



0 dB = 0.923 W/kg = -0.35 dBW/kg

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LTE Band 4 Rev 2

Date: 7/28/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFEC30B

Configuration: Mobile Hot Spot MSL - LTE Band 4 Rev 2

Communication System: LTE 4 (0); Communication System Band: LTE 4; Frequency: 1720 MHz
Medium Parameters used: f=1720 MHz; σ = 1.500 S/m; ε_r = 50.885; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (4.93,4.93,4.93); Calibrated: 1/22/2014;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Mobile Hot Spot MSL - LTE Band 4 Rev 2/10mm Device Back - LTE Band 4_chan20050_20MHz_BW_RB1_Offset_High_amb_temp_23.0C_liq_temp_22.8C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 16.425 V/m; **Power Drift = -0.135 dB**

Fast SAR: SAR(1g) = 1.28 W/kg; SAR(10g) = 0.772 W/kg
Maximum value of SAR (interpolated) = 1.52 W/kg

Mobile Hot Spot MSL - LTE Band 4 Rev 2/10mm Device Back - LTE Band 4_chan20050_20MHz_BW_RB1_Offset_High_amb_temp_23.0C_liq_temp_22.8C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 16.425 V/m; **Power Drift = -0.135 dB**

Averaged SAR: SAR(1g) = 1.30 W/kg; SAR(10g) = 0.738 W/kg
Maximum value of SAR (interpolated) = 2.22 W/kg

Mobile Hot Spot MSL - LTE Band 4 Rev 2/10mm Device Back - LTE Band 4_chan20050_20MHz_BW_RB1_Offset_High_amb_temp_23.0C_liq_temp_22.8C/Zoom Scan 2 (41x36x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 16.425 V/m; **Power Drift = -0.179 dB**

Averaged SAR: SAR(1g) = 1.30 W/kg; SAR(10g) = 0.737 W/kg
Maximum value of SAR (interpolated) = 2.22 W/kg

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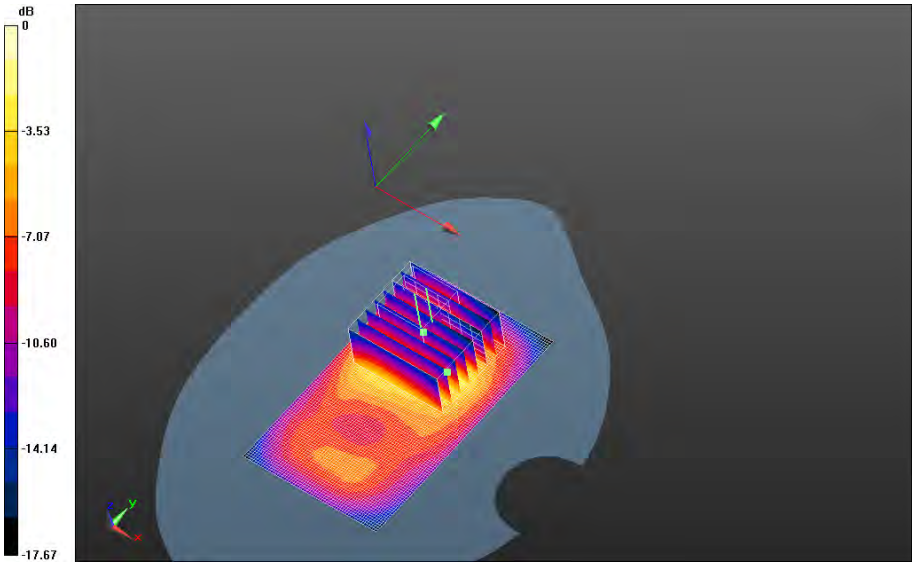

0 dB = 1.55 W/kg = 1.90 dBW/kg

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Mobile Hot Spot MSL - LTE Band 4 Rev 2/10mm Device Back - LTE Band 4_chan20175_20MHz_BW_RB1_Offset_Mid_amb_temp_23.0C_liq_temp_22.8C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 16.356 V/m; **Power Drift = 0.019 dB**

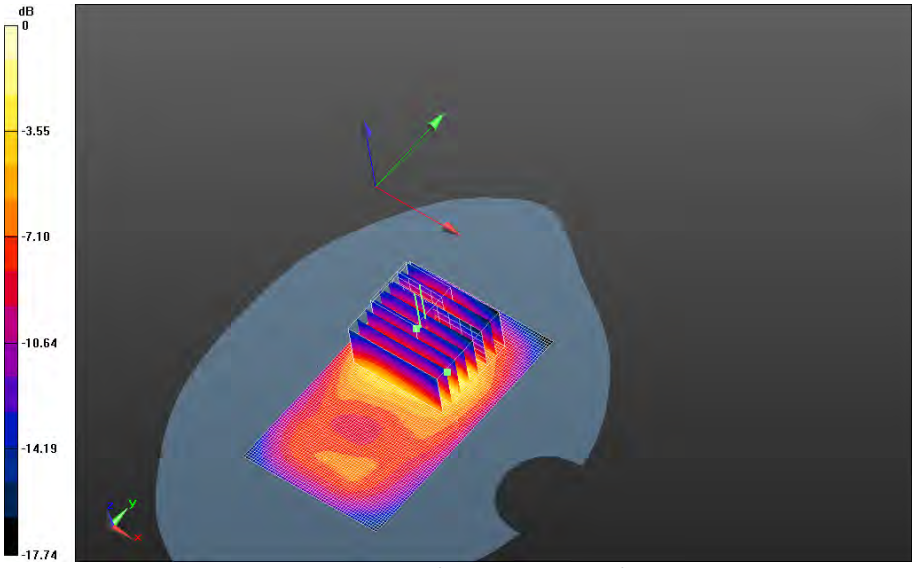
Fast SAR: SAR(1g) = 1.28 W/kg; SAR(10g) = 0.774 W/kg; Secondary SAR(1g) = 0.880 W/kg
Maximum value of SAR (interpolated) = 1.52 W/kg

Mobile Hot Spot MSL - LTE Band 4 Rev 2/10mm Device Back - LTE Band 4_chan20175_20MHz_BW_RB1_Offset_Mid_amb_temp_23.0C_liq_temp_22.8C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 16.356 V/m; **Power Drift = 0.019 dB**

Averaged SAR: SAR(1g) = 1.30 W/kg; SAR(10g) = 0.747 W/kg
Maximum value of SAR (interpolated) = 2.23 W/kg

Mobile Hot Spot MSL - LTE Band 4 Rev 2/10mm Device Back - LTE Band 4_chan20175_20MHz_BW_RB1_Offset_Mid_amb_temp_23.0C_liq_temp_22.8C/Zoom Scan 2 (41x36x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 16.356 V/m; **Power Drift = -0.140 dB**

Averaged SAR: SAR(1g) = 1.31 W/kg; SAR(10g) = 0.744 W/kg
Maximum value of SAR (interpolated) = 2.24 W/kg



0 dB = 1.55 W/kg = 1.90 dBW/kg

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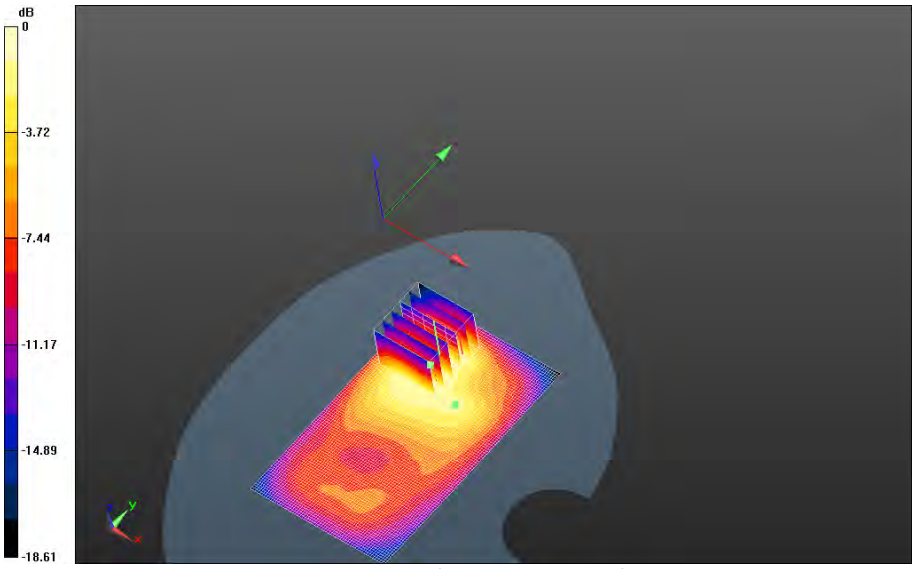
Mobile Hot Spot MSL - LTE Band 4 Rev 2/10mm Device Back - LTE Band 4_chan20300_20MHz_BW_RB1_Offset_Low_amb_temp_23.6C_liq_temp_23.0C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 16.245 V/m; **Power Drift = -0.075 dB**

Fast SAR: SAR(1g) = 1.33 W/kg; SAR(10g) = 0.806 W/kg; Secondary SAR(1g) = 0.880 W/kg
Maximum value of SAR (interpolated) = 1.58 W/kg

Mobile Hot Spot MSL - LTE Band 4 Rev 2/10mm Device Back - LTE Band 4_chan20300_20MHz_BW_RB1_Offset_Low_amb_temp_23.6C_liq_temp_23.0C/Zoom Scan (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 16.245 V/m; **Power Drift = -0.075 dB**

Averaged SAR: SAR(1g) = 1.38 W/kg; SAR(10g) = 0.773 W/kg
Maximum value of SAR (interpolated) = 2.36 W/kg



0 dB = 1.57 W/kg = 1.96 dBW/kg

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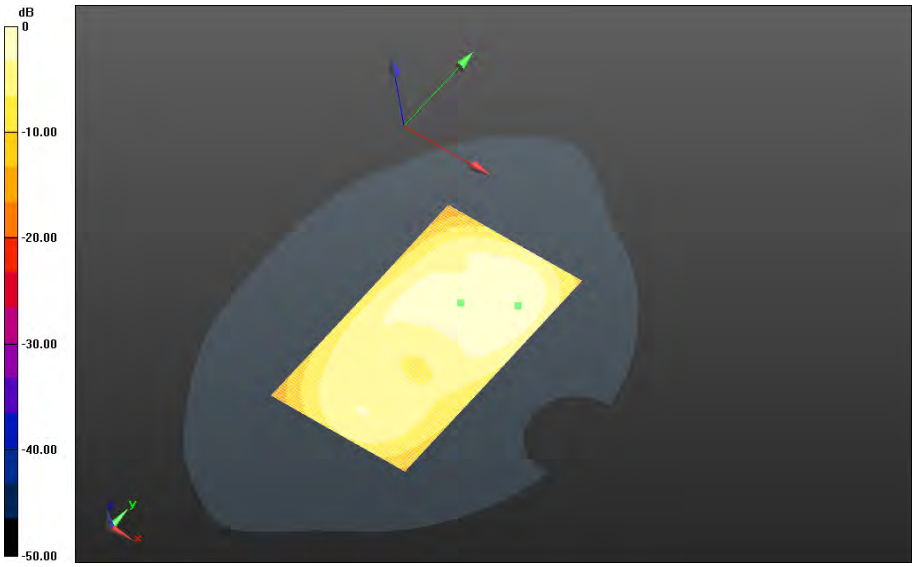
Mobile Hot Spot MSL - LTE Band 4 Rev 2/10mm Device Front - LTE Band 4_chan20175_20MHz_BW_RB1_Offset_Mid_amb_temp_22.7C_liq_temp_22.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 13.831 V/m; **Power Drift = 0.131 dB**

Fast SAR: SAR(1g) = 0.795 W/kg; SAR(10g) = 0.470 W/kg; Secondary SAR(1g) = 0.640 W/kg
Maximum value of SAR (interpolated) = 0.993 W/kg



0 dB = 1.72 W/kg = 2.36 dBW/kg

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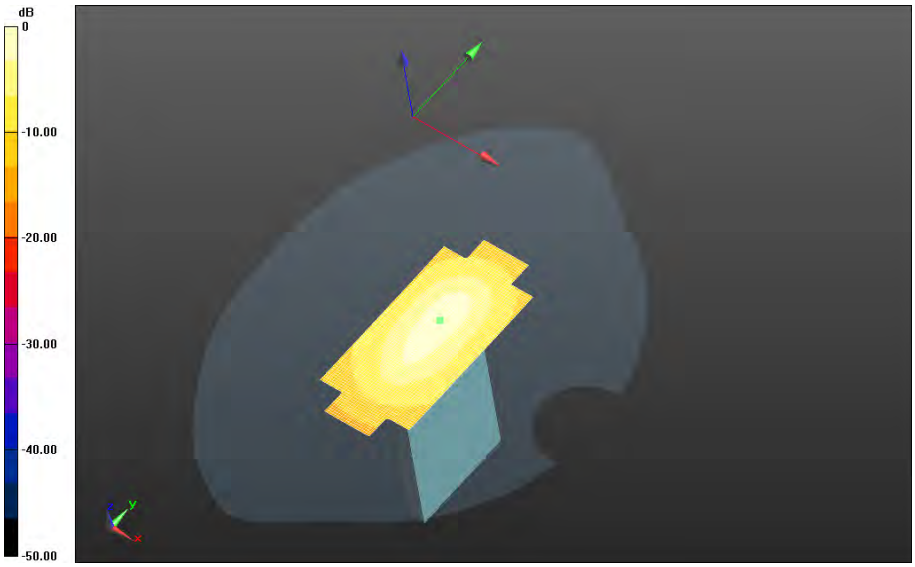
Mobile Hot Spot MSL - LTE Band 4 Rev 2/10mm Device Bottom - LTE Band 4_chan20175_20MHz_BW_RB1_Offset_Mid_amb_temp_22.6C_liq_temp_22.5C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 28.902 V/m; **Power Drift = -0.019 dB**

Fast SAR: SAR(1g) = 1.03 W/kg; SAR(10g) = 0.547 W/kg; Secondary SAR(1g) = 0.640 W/kg
Maximum value of SAR (interpolated) = 1.32 W/kg



0 dB = 0.993 W/kg = -0.03 dBW/kg

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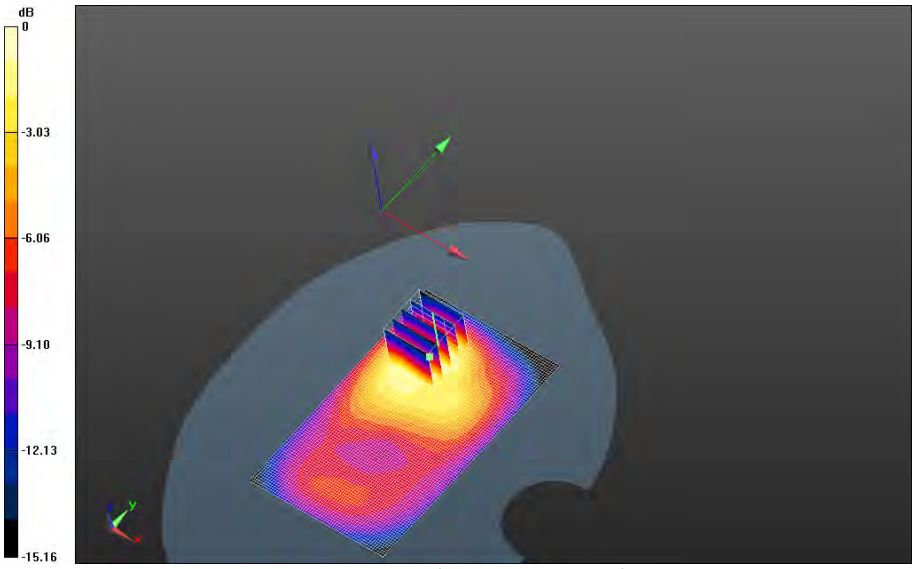
Mobile Hot Spot MSL - LTE Band 4 Rev 2/10mm 2nd Scan Device Back - LTE Band 4_chan20300_20MHz_BW_RB1_Offset_Low_amb_temp_22.9C_liq_temp_22.8C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 16.083 V/m; **Power Drift = 0.011 dB**

Fast SAR: SAR(1g) = 1.36 W/kg; SAR(10g) = 0.778 W/kg; Secondary SAR(1g) = 0.640 W/kg
Maximum value of SAR (interpolated) = 1.68 W/kg

Mobile Hot Spot MSL - LTE Band 4 Rev 2/10mm 2nd Scan Device Back - LTE Band 4_chan20300_20MHz_BW_RB1_Offset_Low_amb_temp_22.9C_liq_temp_22.8C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 16.083 V/m; **Power Drift = 0.011 dB**

Averaged SAR: SAR(1g) = 1.35 W/kg; SAR(10g) = 0.754 W/kg
Maximum value of SAR (interpolated) = 2.31 W/kg



0 dB = 1.32 W/kg = 1.21 dBW/kg

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LTE Band 2

Date: 7/8/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFEB280

Configuration: Mobile Hot Spot MSL - LTE Band 2

Communication System: LTE 2 (0); Communication System Band: LTE Band 2; Frequency: 1860 MHz
Medium Parameters used: f=1860 MHz; σ = 1.478 S/m; ε_r = 50.829; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (4.93,4.93,4.93); Calibrated: 1/22/2014;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Mobile Hot Spot MSL - LTE Band 2/10mm Device Back - LTE Band 2_chan18700_20MHz_BW_RB1_Offset_Low_amb_temp_22.9C_liq_temp_22.8C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.145 V/m; **Power Drift = 0.115 dB**

Fast SAR: SAR(1g) = 1.00 W/kg; SAR(10g) = 0.517 W/kg
Maximum value of SAR (interpolated) = 1.30 W/kg

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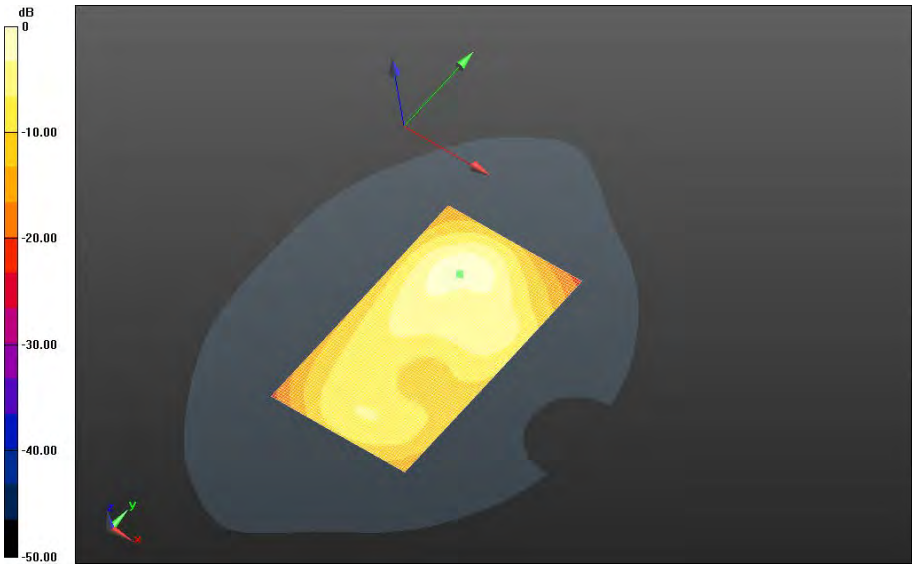

0 dB = 1.30 W/kg = 1.14 dBW/kg

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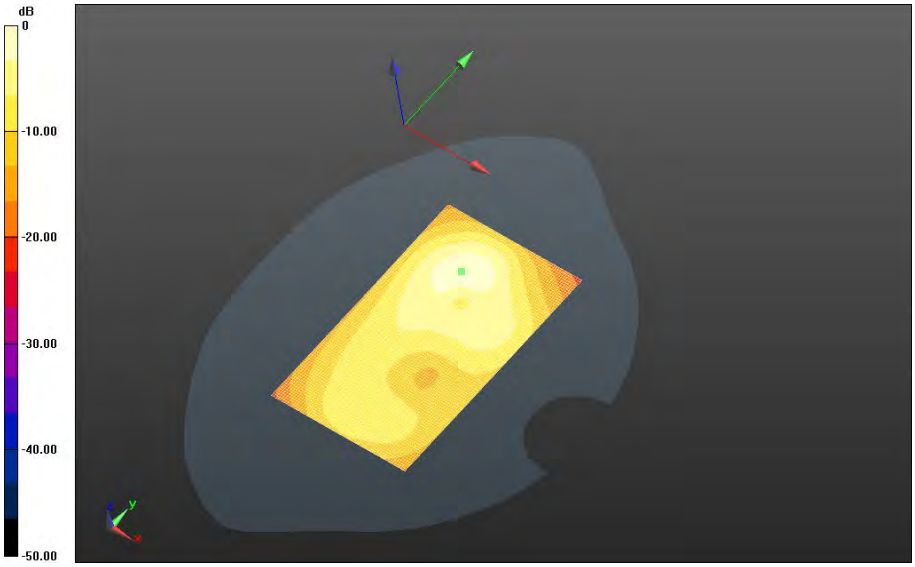
Mobile Hot Spot MSL - LTE Band 2/10mm Device Back - LTE Band 2_chan18900_20MHz_BW_RB1_Offset_High_amb_temp_23.6C_liq_temp_22.8C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 11.840 V/m; **Power Drift = 0.00229 dB**

Fast SAR: SAR(1g) = 1.08 W/kg; SAR(10g) = 0.556 W/kg
Maximum value of SAR (interpolated) = 1.42 W/kg



0 dB = 1.30 W/kg = 1.14 dBW/kg

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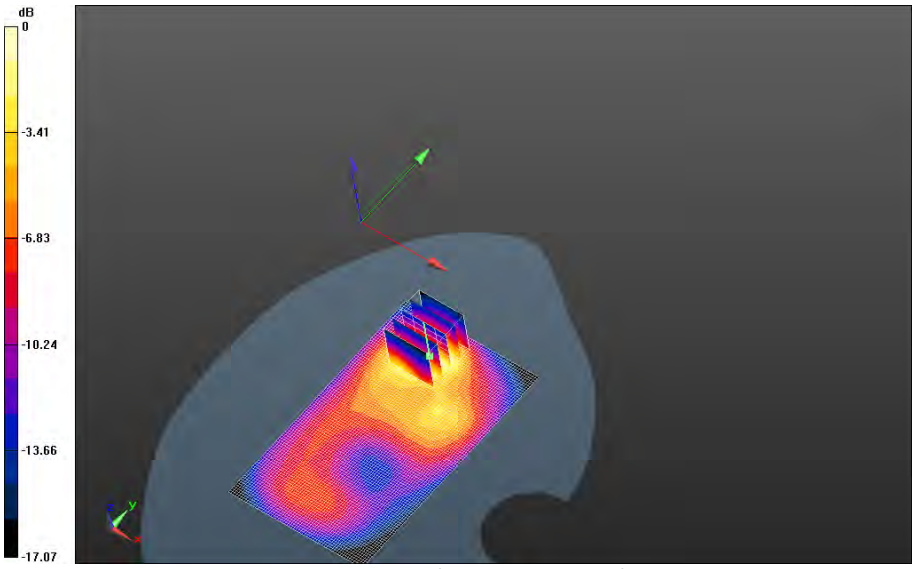
Mobile Hot Spot MSL - LTE Band 2/10mm Device Back - LTE Band 2_chan19100_20MHz_BW_RB1_Offset_High_amb_temp_23.6C_liq_temp_23.0C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 10.518 V/m; **Power Drift = -0.024 dB**

Fast SAR: SAR(1g) = 1.09 W/kg; SAR(10g) = 0.586 W/kg
Maximum value of SAR (interpolated) = 1.44 W/kg

Mobile Hot Spot MSL - LTE Band 2/10mm Device Back - LTE Band 2_chan19100_20MHz_BW_RB1_Offset_High_amb_temp_23.6C_liq_temp_23.0C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 10.518 V/m; **Power Drift = -0.024 dB**

Averaged SAR: SAR(1g) = 1.18 W/kg; SAR(10g) = 0.619 W/kg
Maximum value of SAR (interpolated) = 2.09 W/kg



0 dB = 1.42 W/kg = 1.52 dBW/kg

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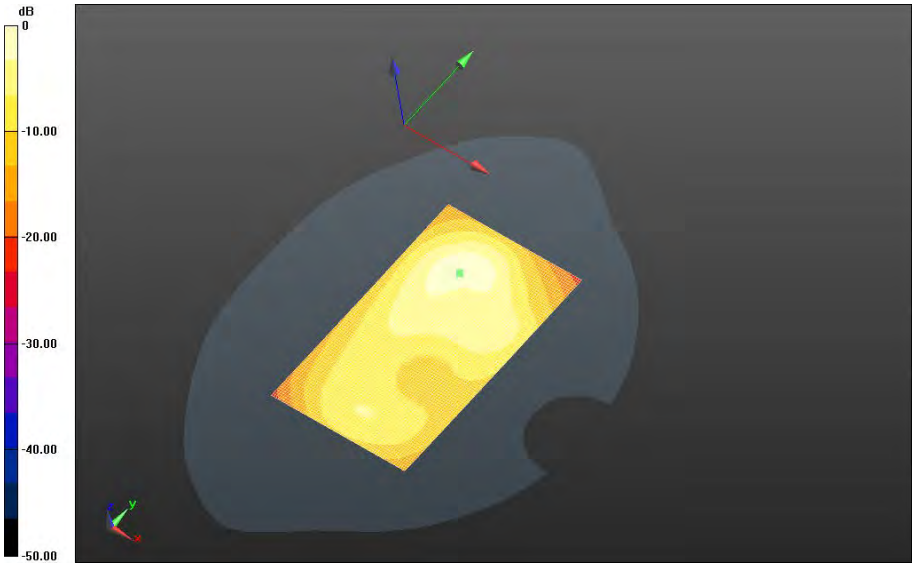
Mobile Hot Spot MSL - LTE Band 2/10mm Device Back - LTE Band 2_chan18700_20MHz_BW_RB50_Offset_Low_amb_temp_22.9C_liq_temp_22.8C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 10.719 V/m; **Power Drift = 0.045 dB**

Fast SAR: SAR(1g) = 0.792 W/kg; SAR(10g) = 0.411 W/kg
Maximum value of SAR (interpolated) = 1.02 W/kg



0 dB = 1.50 W/kg = 1.76 dBW/kg

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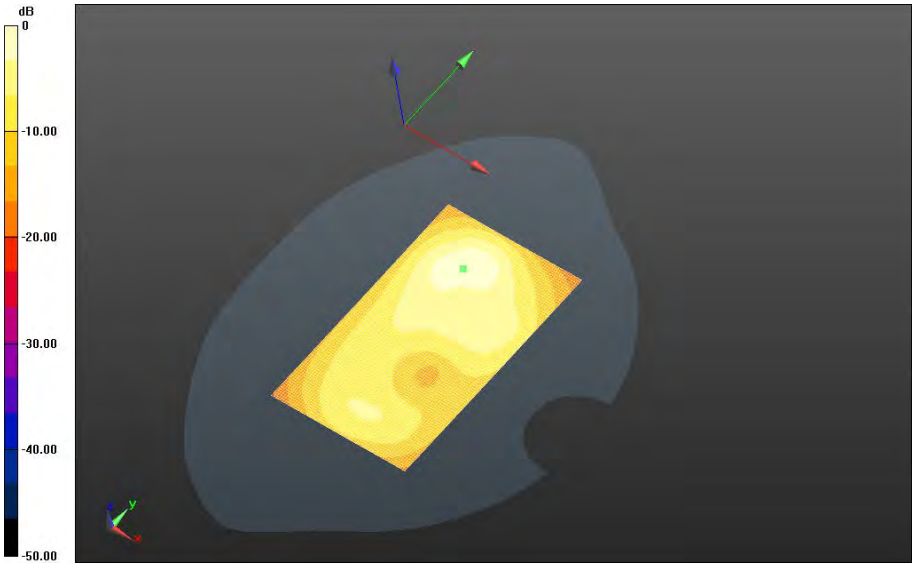
Mobile Hot Spot MSL - LTE Band 2/10mm Device Back - LTE Band 2_chan19100_20MHz_BW_RB100_Offset_Low_amb_temp_22.9C_liq_temp_22.8C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 9.971 V/m; **Power Drift = 0.108 dB**

Fast SAR: SAR(1g) = 0.811 W/kg; SAR(10g) = 0.429 W/kg
Maximum value of SAR (interpolated) = 1.04 W/kg



0 dB = 1.02 W/kg = 0.09 dBW/kg

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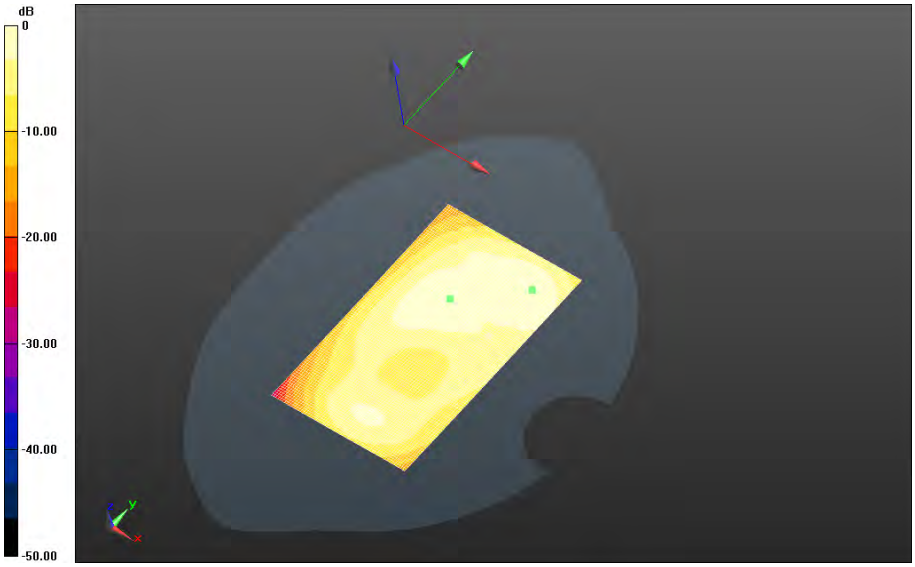
Mobile Hot Spot MSL - LTE Band 2/10mm Device Front - LTE Band 2_chan18700_20MHz_BW_RB1_Offset_Low_amb_temp_22.7C_liq_temp_22.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 10.193 V/m; **Power Drift = 0.014 dB**

Fast SAR: SAR(1g) = 0.470 W/kg; SAR(10g) = 0.278 W/kg
Maximum value of SAR (interpolated) = 0.570 W/kg



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

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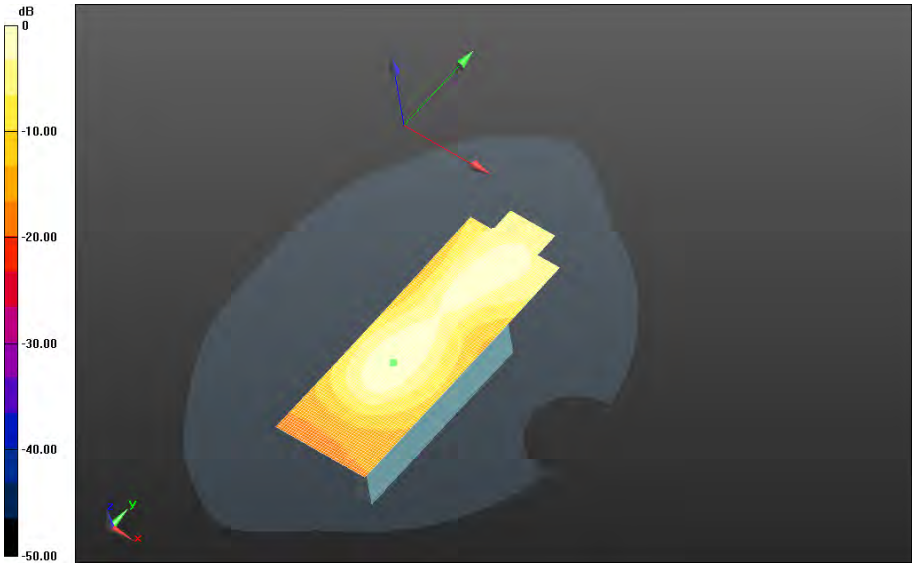
Mobile Hot Spot MSL - LTE Band 2/10mm Device Left - LTE Band 2_chan18700_20MHz_BW_RB1_Offset_Low_amb_temp_22.7C_liq_temp_22.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 11.084 V/m; **Power Drift = -0.014 dB**

Fast SAR: SAR(1g) = 0.175 W/kg; SAR(10g) = 0.101 W/kg
Maximum value of SAR (interpolated) = 0.237 W/kg



0 dB = 0.570 W/kg = -2.44 dBW/kg

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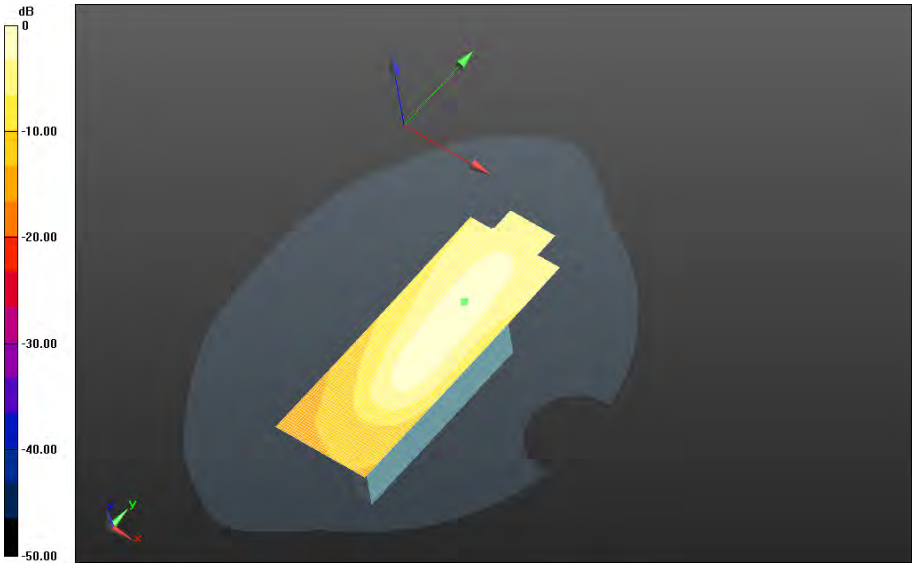
Mobile Hot Spot MSL - LTE Band 2/10mm Device Right -LTE Band 2_chan18700_20MHz_BW_RB1_Offset_Low_amb_temp_22.6C_liq_temp_22.5C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 11.049 V/m; **Power Drift = 0.013 dB**

Fast SAR: SAR(1g) = 0.183 W/kg; SAR(10g) = 0.102 W/kg
Maximum value of SAR (interpolated) = 0.226 W/kg



0 dB = 0.237 W/kg = -6.25 dBW/kg

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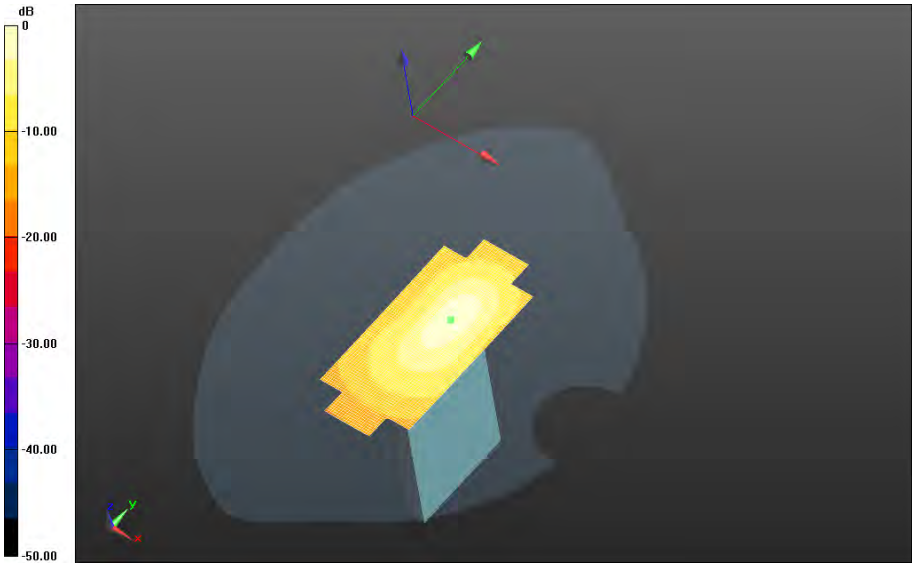
Mobile Hot Spot MSL - LTE Band 2/10mm Device Bottom - LTE Band 2_chan18700_20MHz_BW_RB1_Offset_Low_amb_temp_22.6C_liq_temp_22.5C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 21.859 V/m; **Power Drift = -0.00874 dB**

Fast SAR: SAR(1g) = 0.737 W/kg; SAR(10g) = 0.380 W/kg
Maximum value of SAR (interpolated) = 0.981 W/kg



0 dB = 0.226 W/kg = -6.46 dBW/kg

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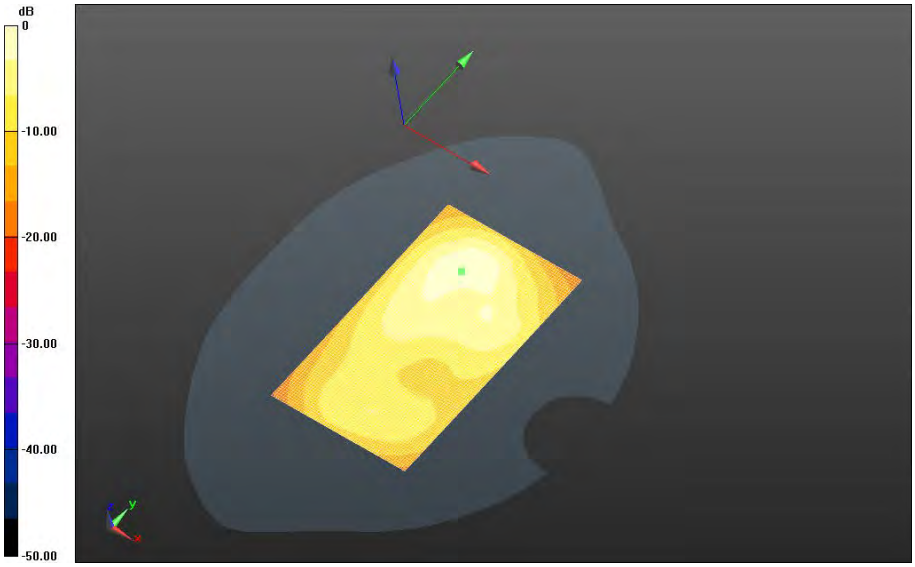
Mobile Hot Spot MSL - LTE Band 2/Headset 10mm Device Back - LTE Band 2_chan18700_20MHz_BW_RB1_Offset_Low_amb_temp_22.9C_liq_temp_22.8C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.318 V/m; **Power Drift = 0.023 dB**

Fast SAR: SAR(1g) = 0.944 W/kg; SAR(10g) = 0.506 W/kg
Maximum value of SAR (interpolated) = 1.20 W/kg



0 dB = 0.981 W/kg = -0.08 dBW/kg

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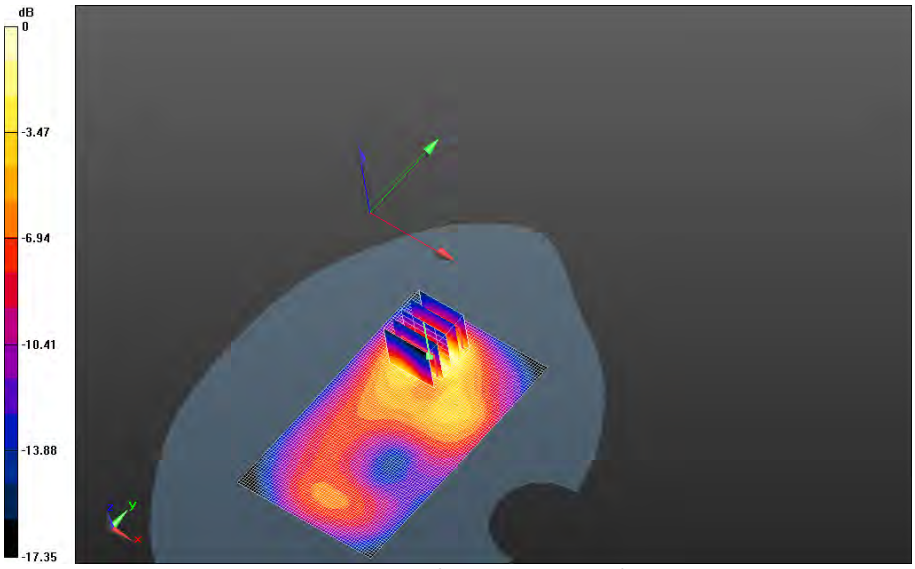
Mobile Hot Spot MSL - LTE Band 2/10mm 2nd Scan_Device Back - LTE Band 2_chan19100_20MHz_BW_RB1_Offset_High_amb_temp_22.9C_liq_temp_22.8C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 11.616 V/m; **Power Drift = -0.079 dB**

Fast SAR: SAR(1g) = 1.09 W/kg; SAR(10g) = 0.575 W/kg
Maximum value of SAR (interpolated) = 1.40 W/kg

Mobile Hot Spot MSL - LTE Band 2/10mm 2nd Scan_Device Back - LTE Band 2_chan19100_20MHz_BW_RB1_Offset_High_amb_temp_22.9C_liq_temp_22.8C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 11.616 V/m; **Power Drift = -0.079 dB**

Averaged SAR: SAR(1g) = 1.18 W/kg; SAR(10g) = 0.611 W/kg
Maximum value of SAR (interpolated) = 2.10 W/kg



0 dB = 1.20 W/kg = 0.79 dBW/kg

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Date: 7/28/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFEB280

Configuration: Mobile Hot Spot MSL - LTE Band 2 (2)

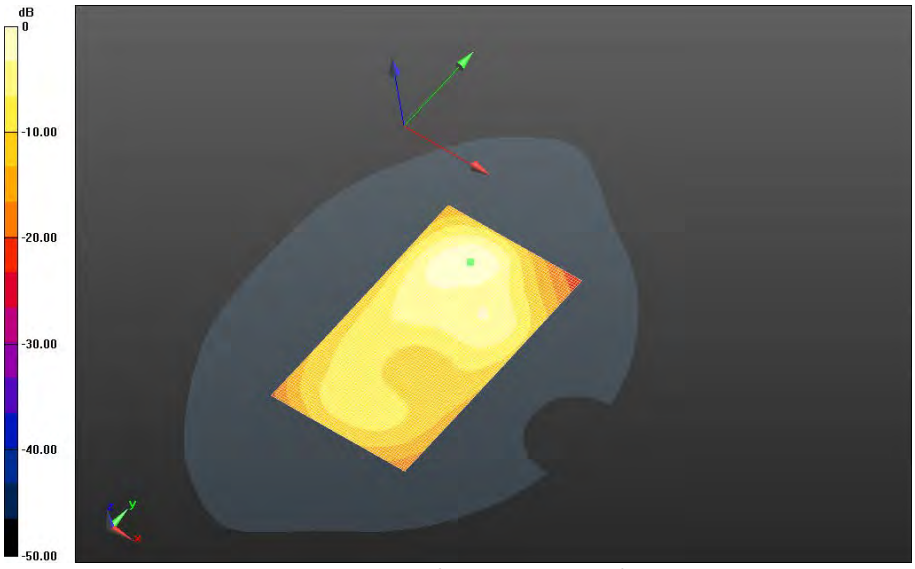
Communication System: LTE 2 (0); Communication System Band: LTE Band 2; Frequency: 1880 MHz
Medium Parameters used: f=1880 MHz; σ = 1.507 S/m; ε_r = 50.837; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (4.93,4.93,4.93); Calibrated: 1/22/2014;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Mobile Hot Spot MSL - LTE Band 2 (2)/10mm Device Back - LTE Band 2_chan18900_20MHz_BW_RB50_Offset_Low_amb_temp_24.3C_liq_temp_22.8C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.991 V/m; **Power Drift = -0.010 dB**

Fast SAR: SAR(1g) = 0.806 W/kg; SAR(10g) = 0.444 W/kg
Maximum value of SAR (interpolated) = 1.05 W/kg



0 dB = 1.05 W/kg = 0.21 dBW/kg

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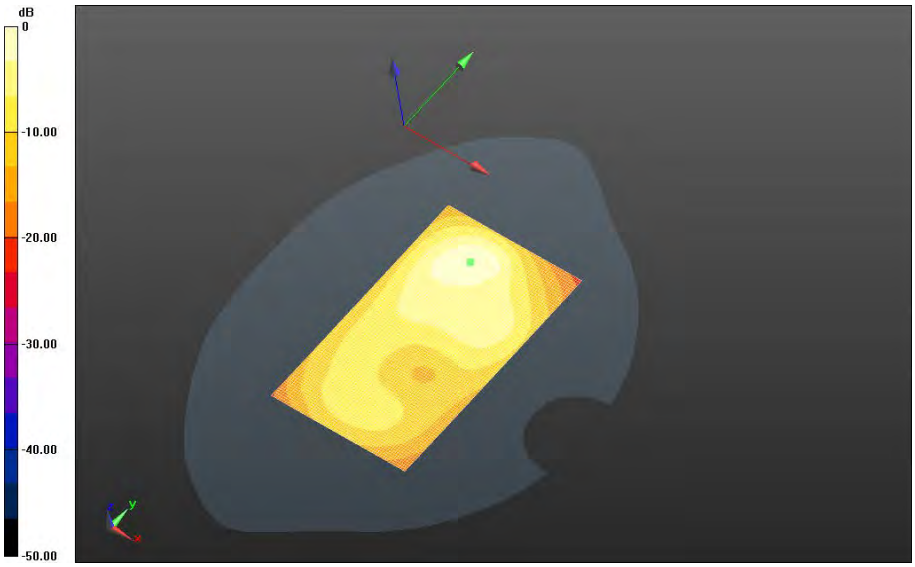
Mobile Hot Spot MSL - LTE Band 2 (2)/10mm Device Back - LTE Band 2_chan19100_20MHz_BW_RB50_Offset_Low_amb_temp_23.9C_liq_temp_22.8C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 9.021 V/m; **Power Drift = 0.00968 dB**

Fast SAR: SAR(1g) = 0.893 W/kg; SAR(10g) = 0.483 W/kg
Maximum value of SAR (interpolated) = 1.17 W/kg



0 dB = 1.05 W/kg = 0.21 dBW/kg

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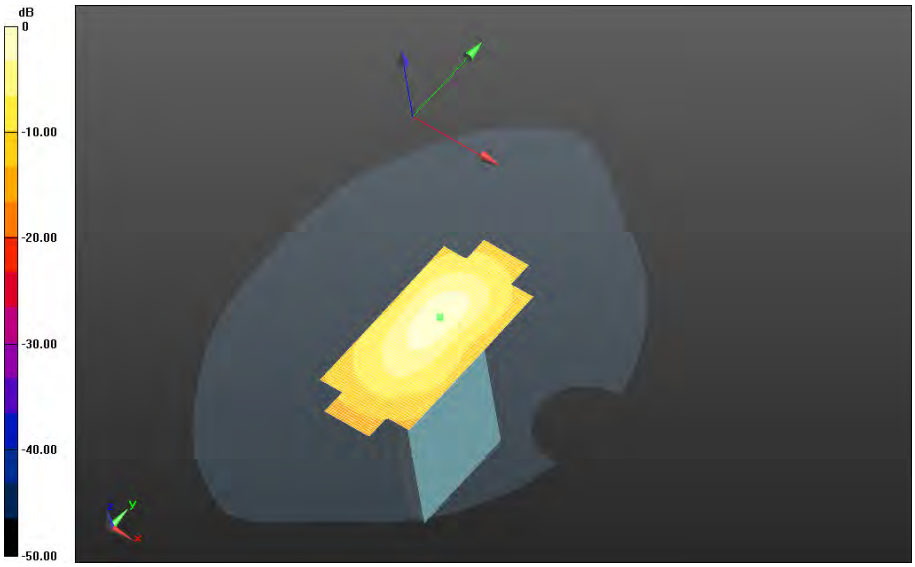
Mobile Hot Spot MSL - LTE Band 2 (2)/10mm Device Bottom - LTE Band 2_chan18900_20MHz_BW_RB1_Offset_High_amb_temp_24.2C_liq_temp_22.5C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 22.752 V/m; **Power Drift = -0.021 dB**

Fast SAR: SAR(1g) = 0.749 W/kg; SAR(10g) = 0.395 W/kg
Maximum value of SAR (interpolated) = 0.991 W/kg



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

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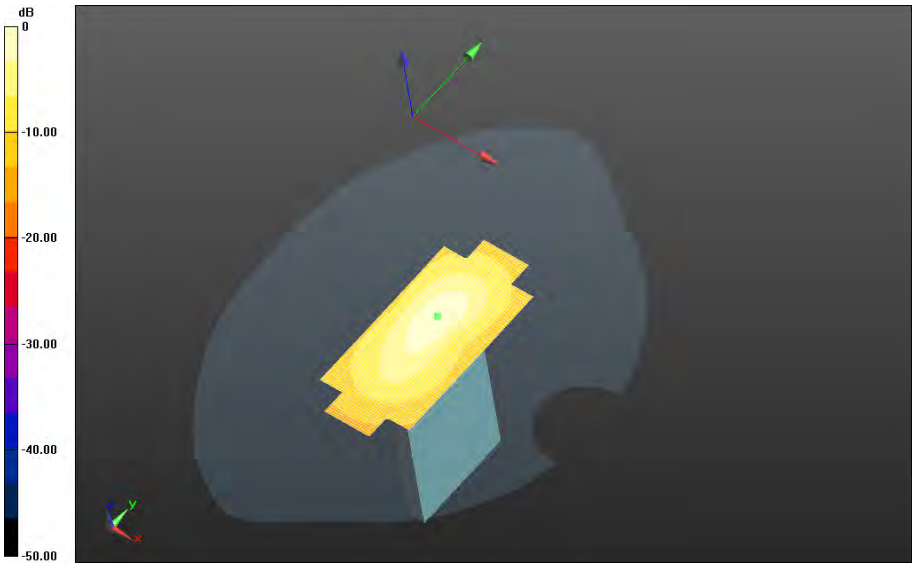
Mobile Hot Spot MSL - LTE Band 2 (2)/10mm Device Bottom - LTE Band 2_chan19100_20MHz_BW_RB1_Offset_High_amb_temp_24.3C_liq_temp_22.5C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 24.000 V/m; **Power Drift = 0.00911 dB**

Fast SAR: SAR(1g) = 0.856 W/kg; SAR(10g) = 0.449 W/kg
Maximum value of SAR (interpolated) = 1.14 W/kg



0 dB = 0.991 W/kg = -0.04 dBW/kg

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GPRS 1900

Date: 7/9/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFEB280

Configuration: Mobile Hot Spot MSL - GPRS 1900

Communication System: GSM 1900 (0); Communication System Band: GSM 1900; Frequency: 1880 MHz
Medium Parameters used: f=1880 MHz; σ = 1.496 S/m; ε_r = 50.779; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (4.93,4.93,4.93); Calibrated: 1/22/2014;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS 1900_1-slot _chan661_amb_temp_23.8C_liq_temp_22.7C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 6.187 V/m; **Power Drift = 0.063 dB**

Fast SAR: SAR(1g) = 0.473 W/kg; SAR(10g) = 0.244 W/kg
Maximum value of SAR (interpolated) = 0.632 W/kg

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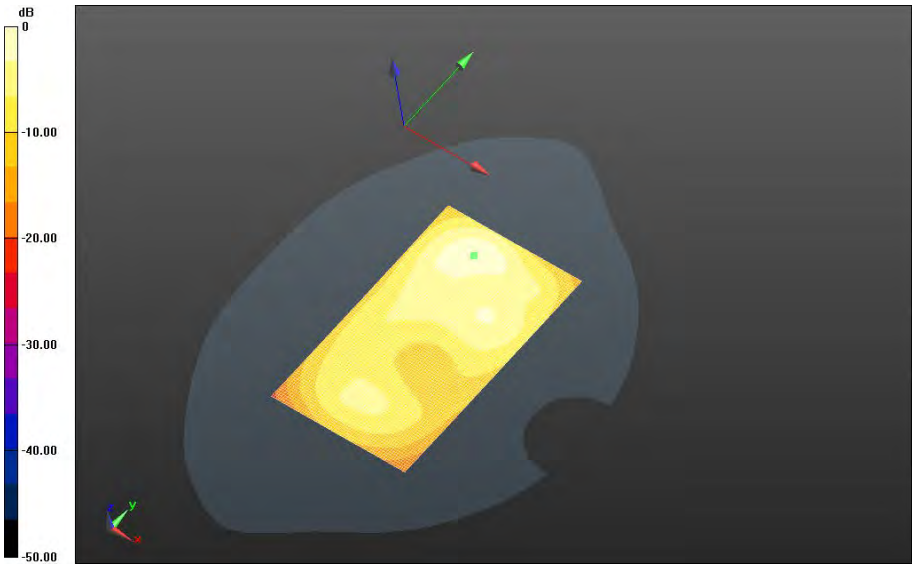

0 dB = 0.632 W/kg = -1.99 dBW/kg

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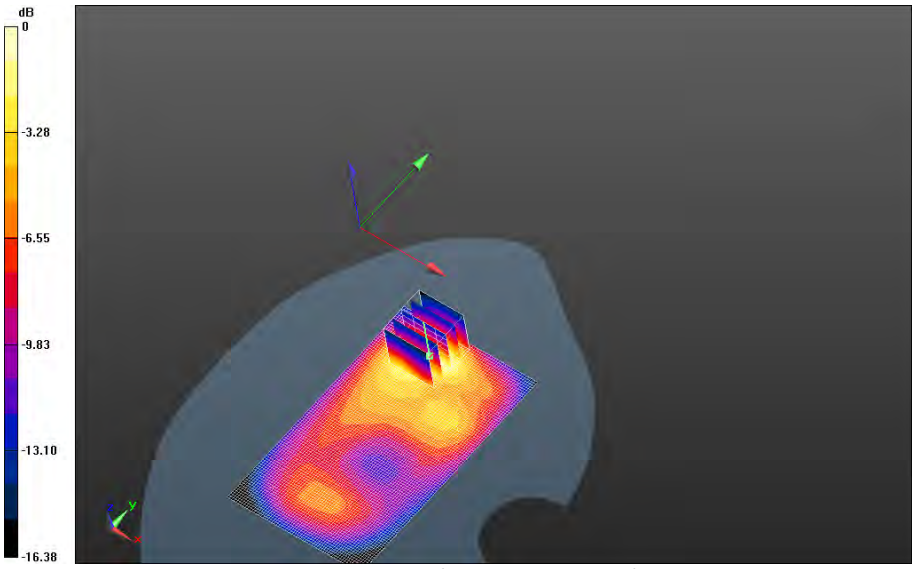
Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS 1900_2-slot _chan512_amb_temp_23.8C_liq_temp_22.4C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 9.131 V/m; **Power Drift = 0.047 dB**

Fast SAR: SAR(1g) = 0.872 W/kg; SAR(10g) = 0.458 W/kg
Maximum value of SAR (interpolated) = 1.14 W/kg

Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS 1900_2-slot _chan512_amb_temp_23.8C_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 = 9.131 V/m; **Power Drift = 0.047 dB**

Averaged SAR: SAR(1g) = 0.928 W/kg; SAR(10g) = 0.499 W/kg
Maximum value of SAR (interpolated) = 1.61 W/kg



0 dB = 0.632 W/kg = -1.99 dBW/kg

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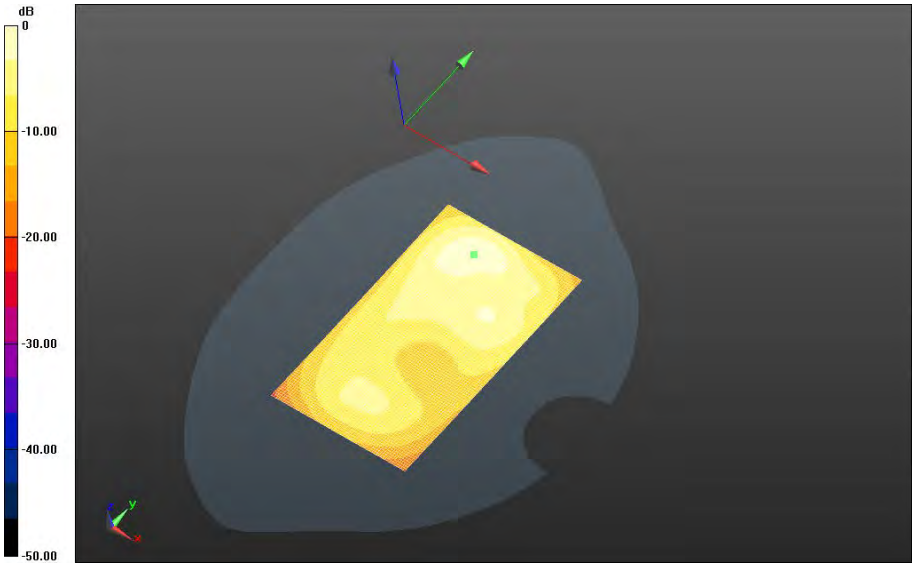
Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS 1900_2-slot _chan661_amb_temp_23.8C_liq_temp_22.4C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.314 V/m; **Power Drift = 0.00211 dB**

Fast SAR: SAR(1g) = 0.842 W/kg; SAR(10g) = 0.434 W/kg
Maximum value of SAR (interpolated) = 1.12 W/kg



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

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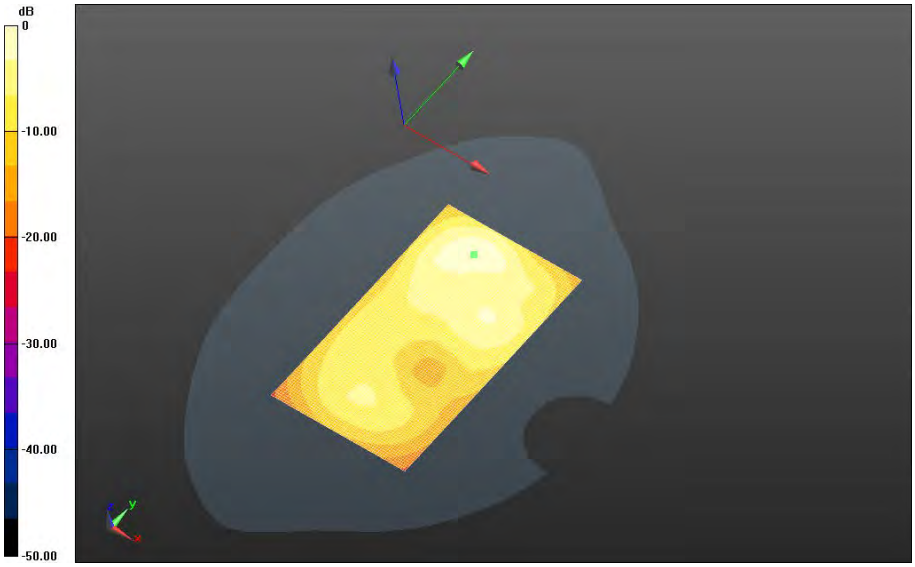
Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS 1900_2-slot _chan810_amb_temp_23.8C_liq_temp_22.4C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.561 V/m; **Power Drift = 0.036 dB**

Fast SAR: SAR(1g) = 0.751 W/kg; SAR(10g) = 0.382 W/kg
Maximum value of SAR (interpolated) = 1.01 W/kg



0 dB = 1.12 W/kg = 0.49 dBW/kg

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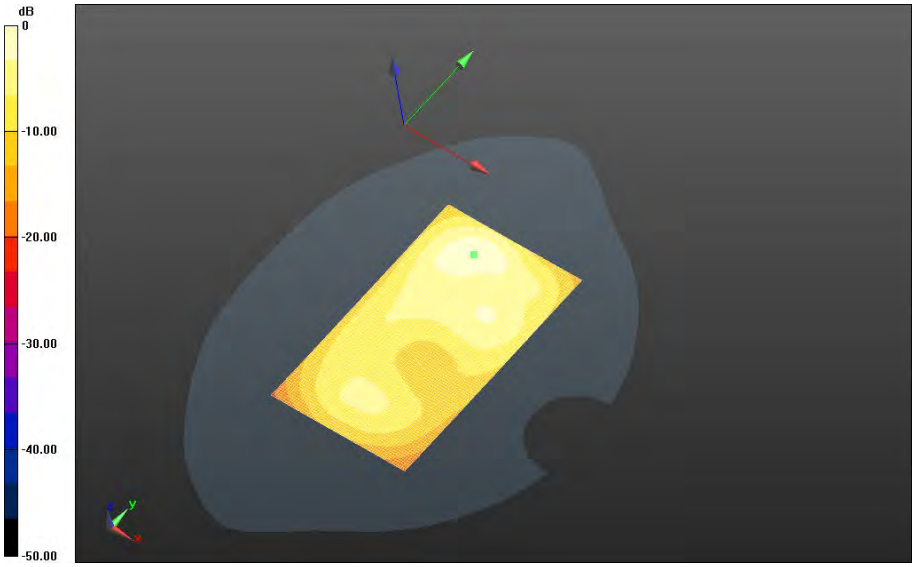
Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS 1900_3-slot _chan661_amb_temp_24.3C_liq_temp_22.7C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.678 V/m; **Power Drift = -0.056 dB**

Fast SAR: SAR(1g) = 0.693 W/kg; SAR(10g) = 0.358 W/kg
Maximum value of SAR (interpolated) = 0.924 W/kg



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

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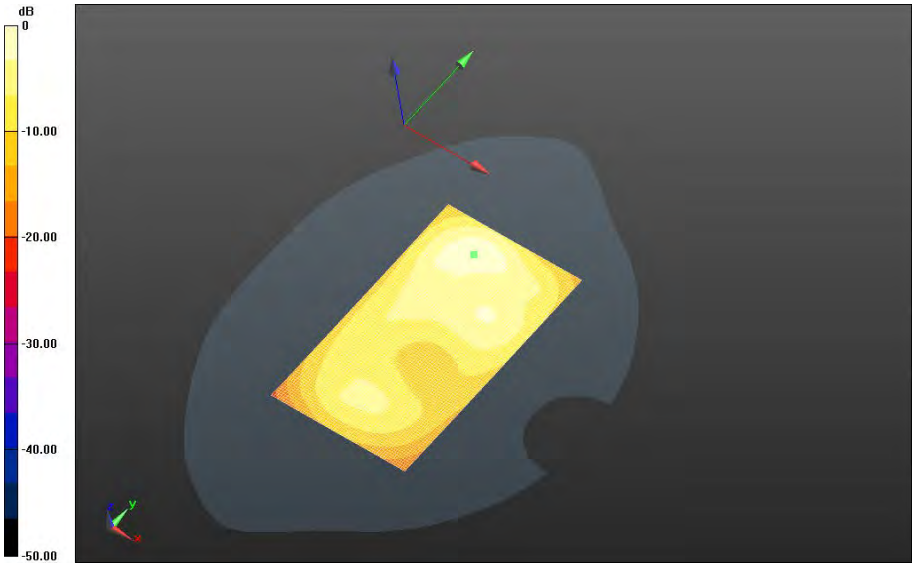
Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS 1900_4-slot _chan661_amb_temp_23.2C_liq_temp_22.7C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.986 V/m; **Power Drift = 0.00964 dB**

Fast SAR: SAR(1g) = 0.775 W/kg; SAR(10g) = 0.398 W/kg
Maximum value of SAR (interpolated) = 1.04 W/kg



0 dB = 0.924 W/kg = -0.34 dBW/kg

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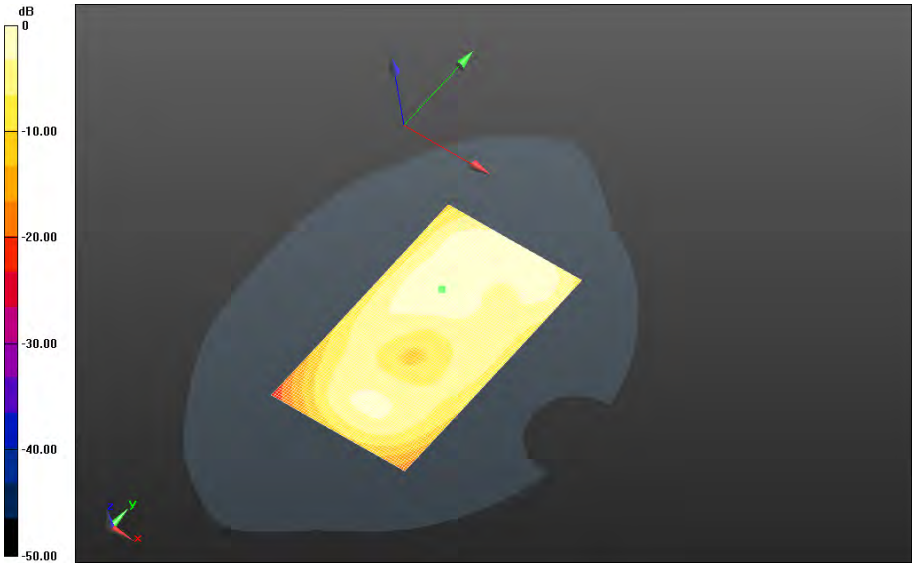
Mobile Hot Spot MSL - GPRS 1900/10mm Device Front - GPRS 1900_2-slot _chan190_amb_temp_23.8C_liq_temp_23.0/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 6.033 V/m; **Power Drift = 0.189 dB**

Fast SAR: SAR(1g) = 0.390 W/kg; SAR(10g) = 0.226 W/kg
Maximum value of SAR (interpolated) = 0.483 W/kg



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

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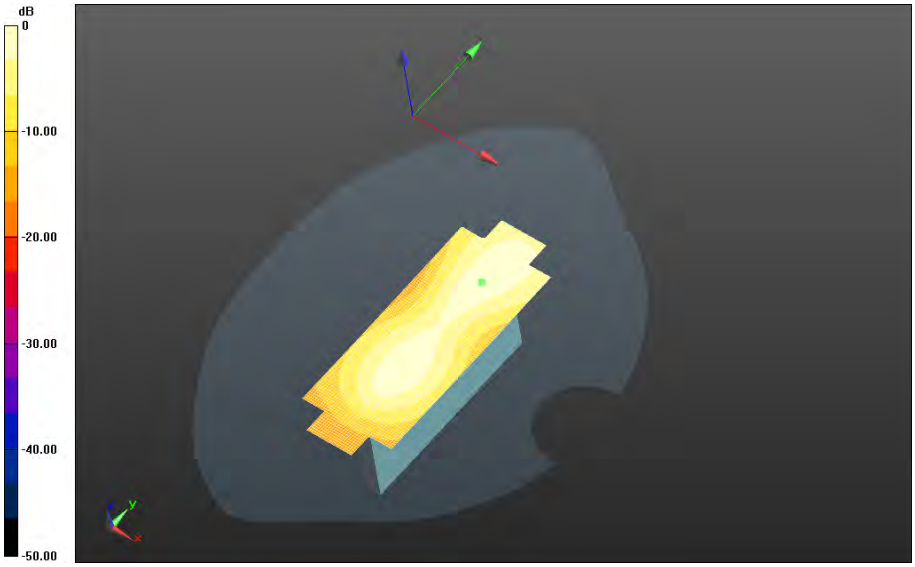
Mobile Hot Spot MSL - GPRS 1900/10mm Device Left - GPRS 1900_2-slot _chan661_amb_temp_24.1C_liq_temp_23.0C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 9.734 V/m; **Power Drift = -0.082 dB**

Fast SAR: SAR(1g) = 0.185 W/kg; SAR(10g) = 0.101 W/kg
Maximum value of SAR (interpolated) = 0.233 W/kg



0 dB = 0.483 W/kg = -3.16 dBW/kg

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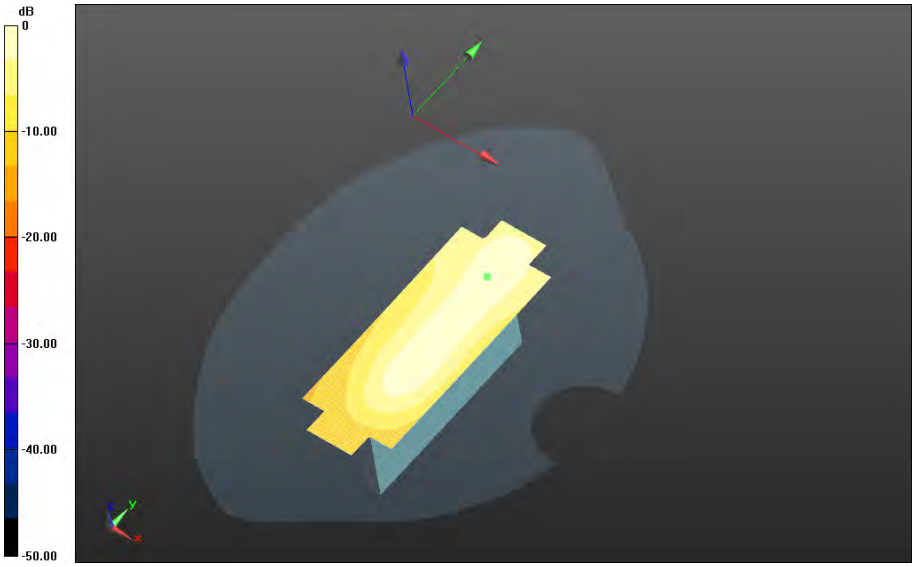
Mobile Hot Spot MSL - GPRS 1900/10mm Device Right -GPRS 1900_2-slot _chan661_amb_temp_23.4C_liq_temp_22.9C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 11.169 V/m; **Power Drift = 0.043 dB**

Fast SAR: SAR(1g) = 0.180 W/kg; SAR(10g) = 0.101 W/kg
Maximum value of SAR (interpolated) = 0.227 W/kg



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

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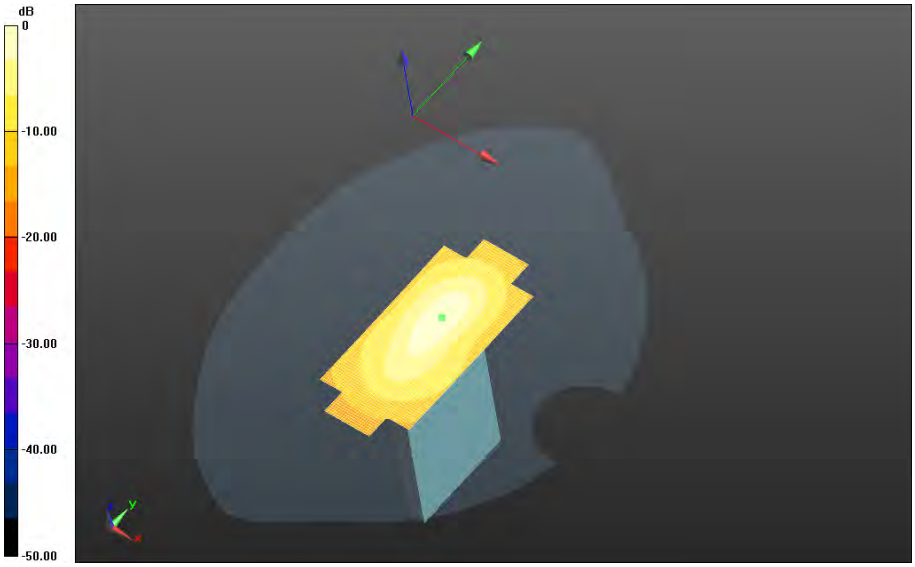
Mobile Hot Spot MSL - GPRS 1900/10mm Device Bottom -GPRS 1900_2-slot _chan661_amb_temp_23.8C_liq_temp_22.9C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 25.580 V/m; **Power Drift = -0.037 dB**

Fast SAR: SAR(1g) = 0.884 W/kg; SAR(10g) = 0.456 W/kg
Maximum value of SAR (interpolated) = 1.17 W/kg



0 dB = 0.227 W/kg = -6.44 dBW/kg

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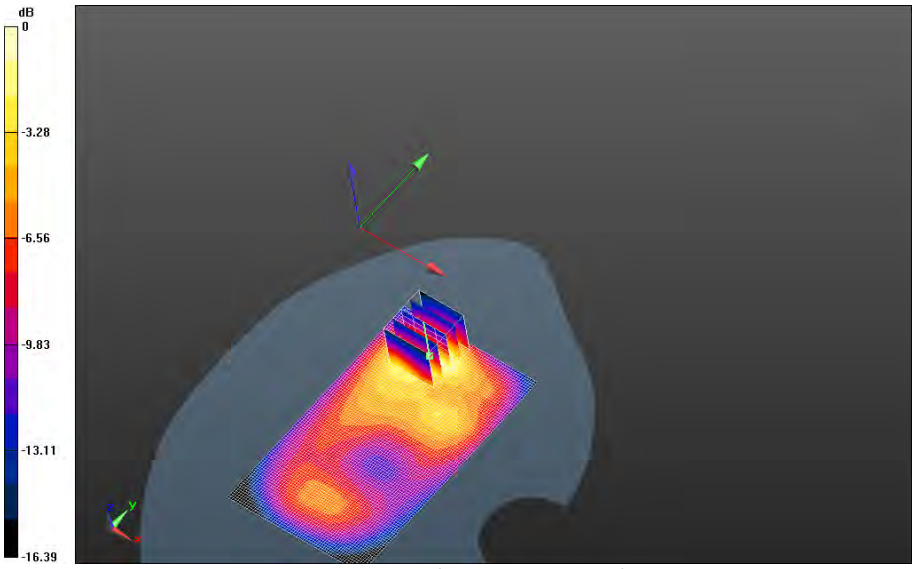
Mobile Hot Spot MSL - GPRS 1900/10mm Device Back 2nd scan - GPRS 1900_2-slot _chan512_amb_temp_23.8C_liq_temp_22.4C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 9.359 V/m; **Power Drift = 0.017 dB**

Fast SAR: SAR(1g) = 0.897 W/kg; SAR(10g) = 0.467 W/kg
Maximum value of SAR (interpolated) = 1.18 W/kg

Mobile Hot Spot MSL - GPRS 1900/10mm Device Back 2nd scan - GPRS 1900_2-slot _chan512_amb_temp_23.8C_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 = 9.359 V/m; **Power Drift = 0.017 dB**

Averaged SAR: SAR(1g) = 0.925 W/kg; SAR(10g) = 0.498 W/kg
Maximum value of SAR (interpolated) = 1.59 W/kg



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

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Date: 7/28/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone R139, Type: Sample, Serial: 2FFEB280

Configuration: Mobile Hot Spot MSL - GPRS 1900 (2)

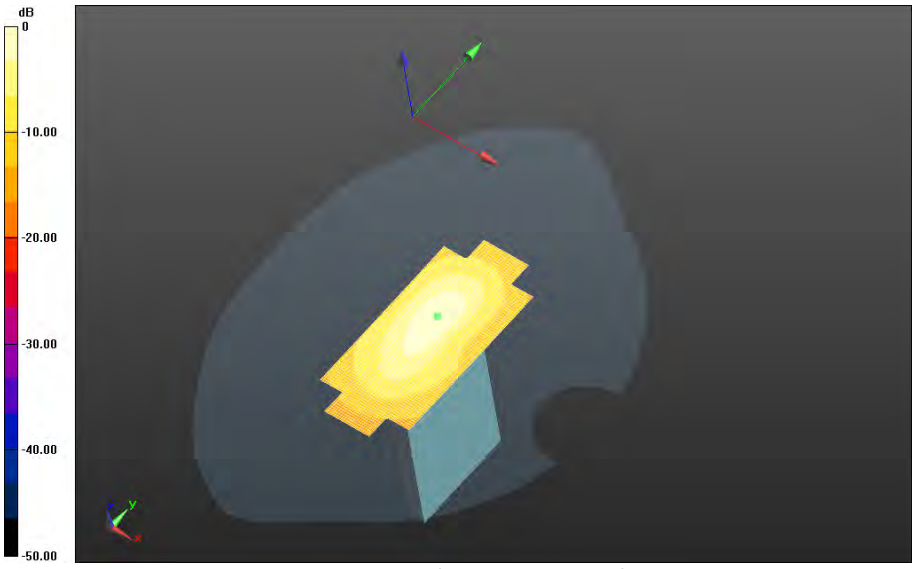
Communication System: GPRS 1900 (2-slots) (0); Communication System Band: GPRS 1900; Frequency: 1850.2 MHz
Medium Parameters used: f=1850.2 MHz; σ = 1.473 S/m; ε_r = 50.855; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (4.93,4.93,4.93); Calibrated: 1/22/2014;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Mobile Hot Spot MSL - GPRS 1900 (2)/10mm Device Bottom -GPRS 1900_2-slot _chan512_amb_temp_23.8C_liq_temp_22.9C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 24.016 V/m; **Power Drift = 0.013 dB**

Fast SAR: SAR(1g) = 0.812 W/kg; SAR(10g) = 0.429 W/kg
Maximum value of SAR (interpolated) = 1.07 W/kg



0 dB = 1.07 W/kg = 0.29 dBW/kg

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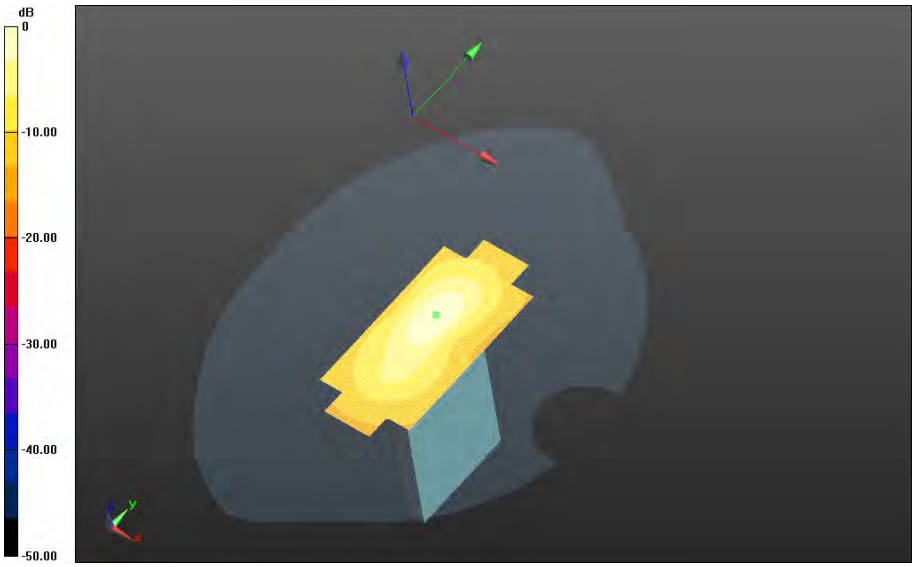
Mobile Hot Spot MSL - GPRS 1900 (2)/10mm Device Bottom -GPRS 1900_2-slot _chan810_amb_temp_23.9C_liq_temp_22.9C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 20.627 V/m; **Power Drift = -0.010 dB**

Fast SAR: SAR(1g) = 0.721 W/kg; SAR(10g) = 0.366 W/kg
Maximum value of SAR (interpolated) = 1.00 W/kg



0 dB = 1.07 W/kg = 0.29 dBW/kg

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UMTS Band II

Date: 7/9/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFEB280

Configuration: Mobile Hot Spot MSL - UMTS Band II

Communication System: WCDMA FDD II (0); Communication System Band: UMTS FDD II;
Frequency: 1852.4 MHz
Medium Parameters used: f=1852.4 MHz; σ = 1.473 S/m; ε_r = 50.853; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (4.93,4.93,4.93); Calibrated: 1/22/2014;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Mobile Hot Spot MSL - UMTS Band II/10mm Device Back -UMTS Band II_chan9262_amb_temp_22.9C_liq_temp_21.1C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 11.366 V/m; **Power Drift = -0.158 dB**

Fast SAR: SAR(1g) = 1.10 W/kg; SAR(10g) = 0.597 W/kg
Maximum value of SAR (interpolated) = 1.43 W/kg

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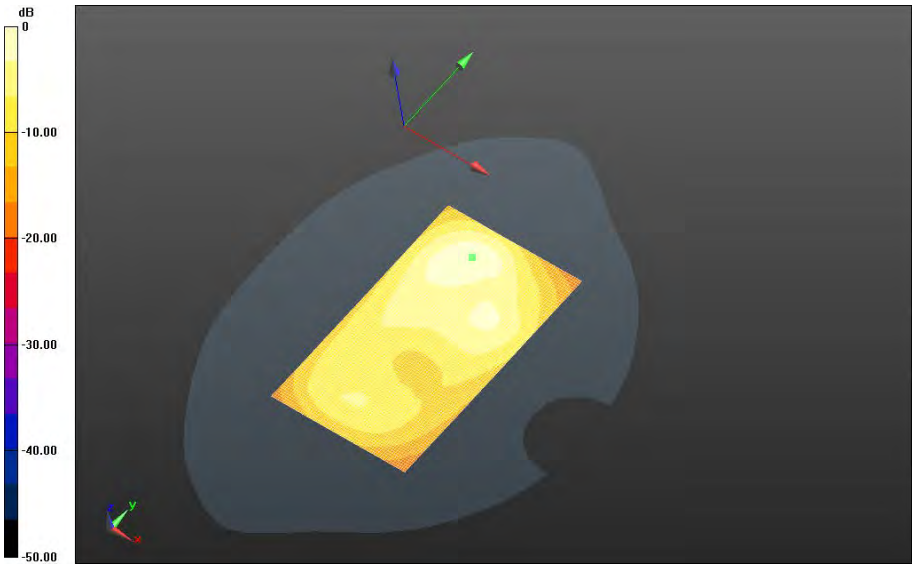

0 dB = 1.43 W/kg = 1.55 dBW/kg

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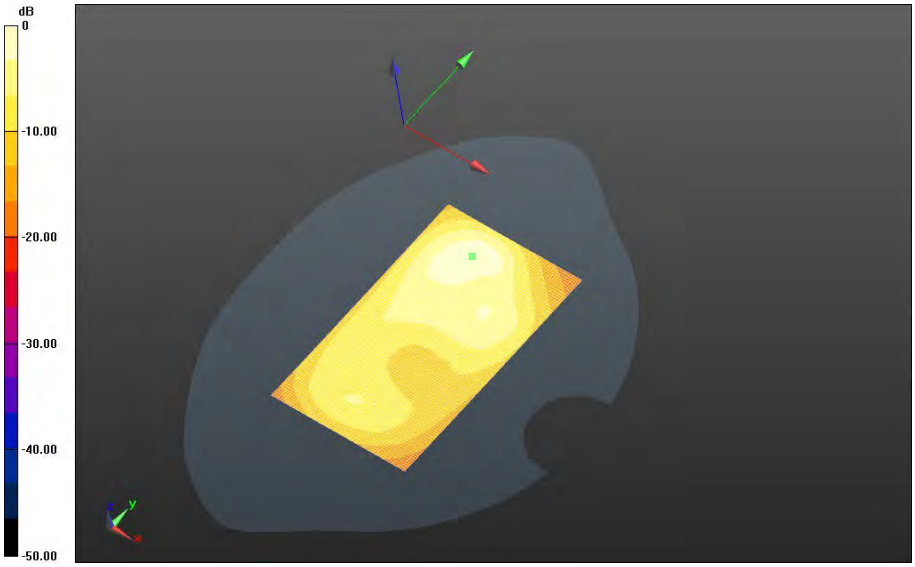
Mobile Hot Spot MSL - UMTS Band II/10mm Device Back -UMTS Band II_chan9400_amb_temp_22.9C_liq_temp_21.1C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 10.266 V/m; **Power Drift = 0.084 dB**

Fast SAR: SAR(1g) = 1.06 W/kg; SAR(10g) = 0.570 W/kg
Maximum value of SAR (interpolated) = 1.40 W/kg



0 dB = 1.43 W/kg = 1.55 dBW/kg

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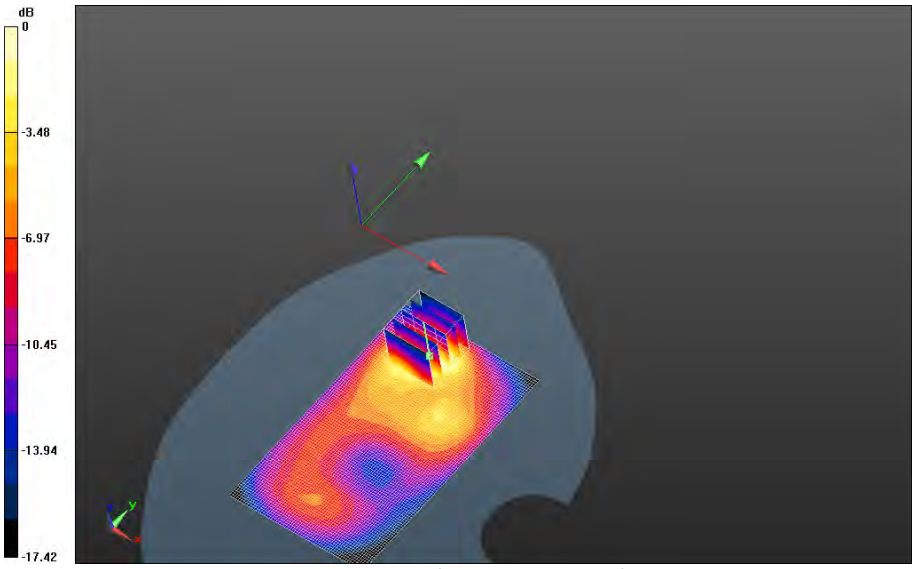
Mobile Hot Spot MSL - UMTS Band II/10mm Device Back -UMTS Band II_chan9538_amb_temp_22.9C_liq_temp_21.1C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 10.747 V/m; **Power Drift = 0.131 dB**

Fast SAR: SAR(1g) = 1.26 W/kg; SAR(10g) = 0.664 W/kg
Maximum value of SAR (interpolated) = 1.68 W/kg

Mobile Hot Spot MSL - UMTS Band II/10mm Device Back -UMTS Band II_chan9538_amb_temp_22.9C_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 = 10.747 V/m; **Power Drift = 0.131 dB**

Averaged SAR: SAR(1g) = 1.35 W/kg; SAR(10g) = 0.707 W/kg
Maximum value of SAR (interpolated) = 2.39 W/kg



0 dB = 1.40 W/kg = 1.46 dBW/kg

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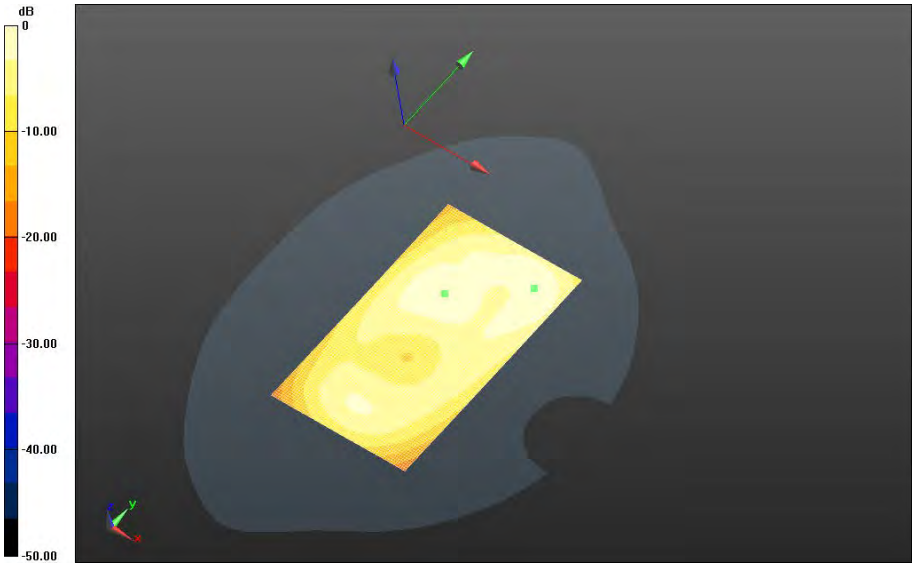
Mobile Hot Spot MSL - UMTS Band II/10mm Device Front -UMTS Band II_chan9400_amb_temp_22.8C_liq_temp_21.2C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.012 V/m; **Power Drift = 0.031 dB**

Fast SAR: SAR(1g) = 0.485 W/kg; SAR(10g) = 0.269 W/kg
Maximum value of SAR (interpolated) = 0.617 W/kg



0 dB = 1.68 W/kg = 2.25 dBW/kg

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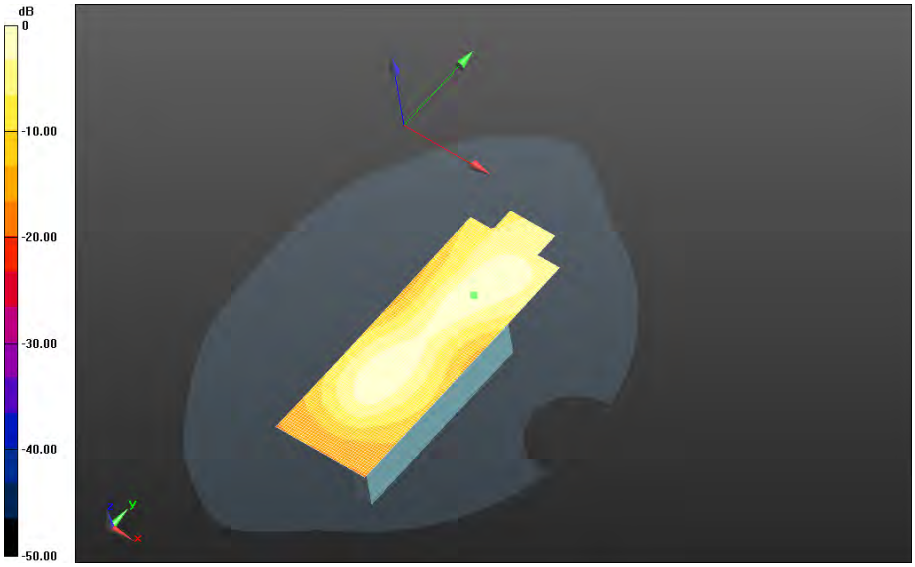
Mobile Hot Spot MSL - UMTS Band II/10mm Device Left -UMTS Band II_chan9400_amb_temp_23.4C_liq_temp_21.2C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 11.064 V/m; **Power Drift = 0.061 dB**

Fast SAR: SAR(1g) = 0.242 W/kg; SAR(10g) = 0.134 W/kg
Maximum value of SAR (interpolated) = 0.323 W/kg



0 dB = 0.617 W/kg = -2.10 dBW/kg

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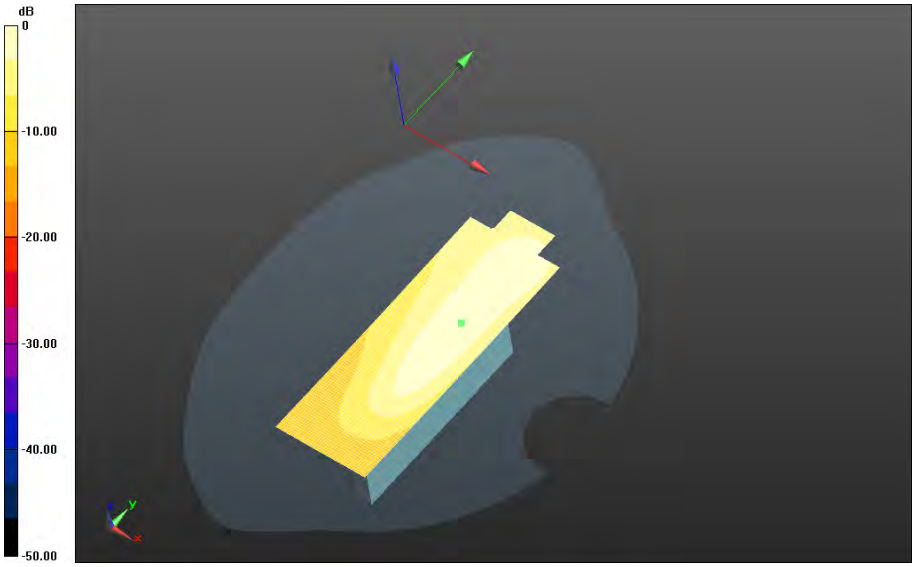
Mobile Hot Spot MSL - UMTS Band II/10mm Device Right -UMTS Band II_chan9400_amb_temp_23.1C_liq_temp_22.1C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.816 V/m; **Power Drift = -0.055 dB**

Fast SAR: SAR(1g) = 0.126 W/kg; SAR(10g) = 0.0760 W/kg
Maximum value of SAR (interpolated) = 0.168 W/kg



0 dB = 0.323 W/kg = -4.91 dBW/kg

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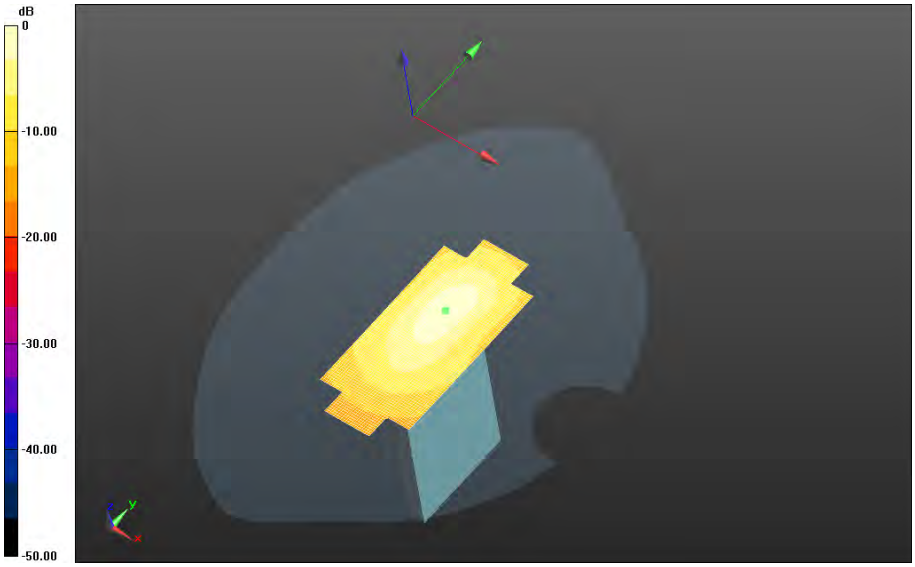
Mobile Hot Spot MSL - UMTS Band II/10mm Device Bottom -UMTS Band II_chan9262_amb_temp_23.0C_liq_temp_21.1C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 21.436 V/m; **Power Drift = -0.061 dB**

Fast SAR: SAR(1g) = 0.805 W/kg; SAR(10g) = 0.416 W/kg
Maximum value of SAR (interpolated) = 1.05 W/kg



0 dB = 0.168 W/kg = -7.75 dBW/kg

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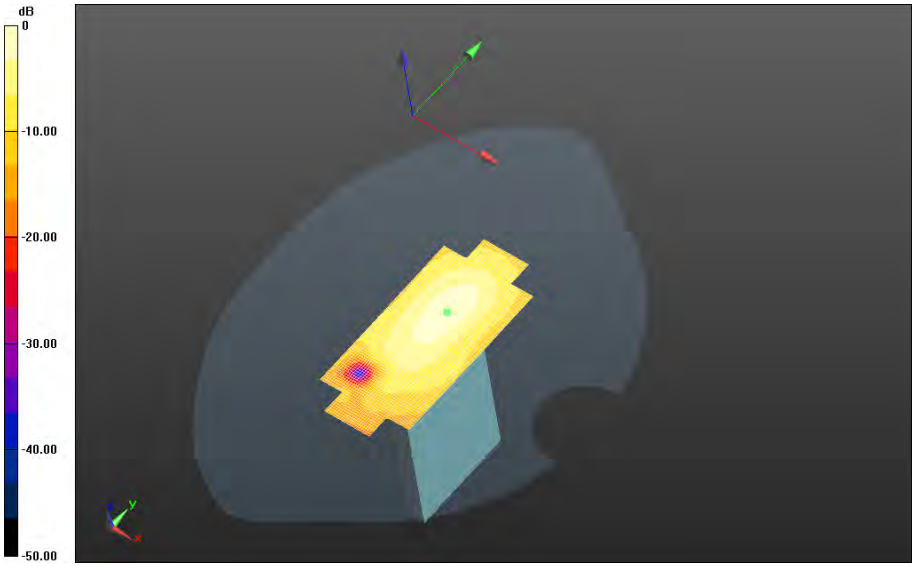
Mobile Hot Spot MSL - UMTS Band II/10mm Device Bottom -UMTS Band II_chan9400_amb_temp_23.4C_liq_temp_21.2C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 22.036 V/m; **Power Drift = -0.124 dB**

Fast SAR: SAR(1g) = 0.857 W/kg; SAR(10g) = 0.439 W/kg
Maximum value of SAR (interpolated) = 1.12 W/kg



0 dB = 1.05 W/kg = 0.21 dBW/kg

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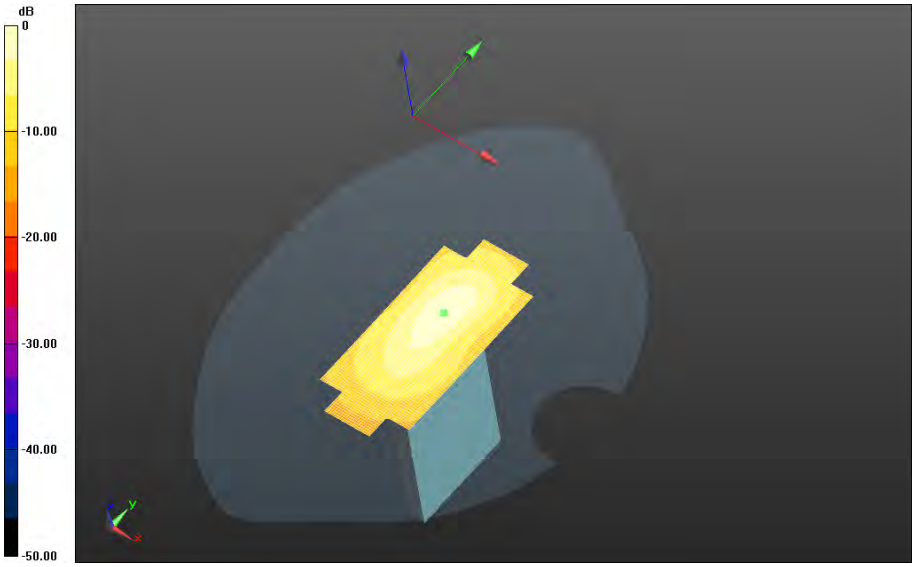
Mobile Hot Spot MSL - UMTS Band II/10mm Device Bottom -UMTS Band II_chan9538_amb_temp_23.1C_liq_temp_21.0C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 24.471 V/m; **Power Drift = 0.093 dB**

Fast SAR: SAR(1g) = 1.01 W/kg; SAR(10g) = 0.524 W/kg
Maximum value of SAR (interpolated) = 1.33 W/kg



0 dB = 1.12 W/kg = 0.49 dBW/kg

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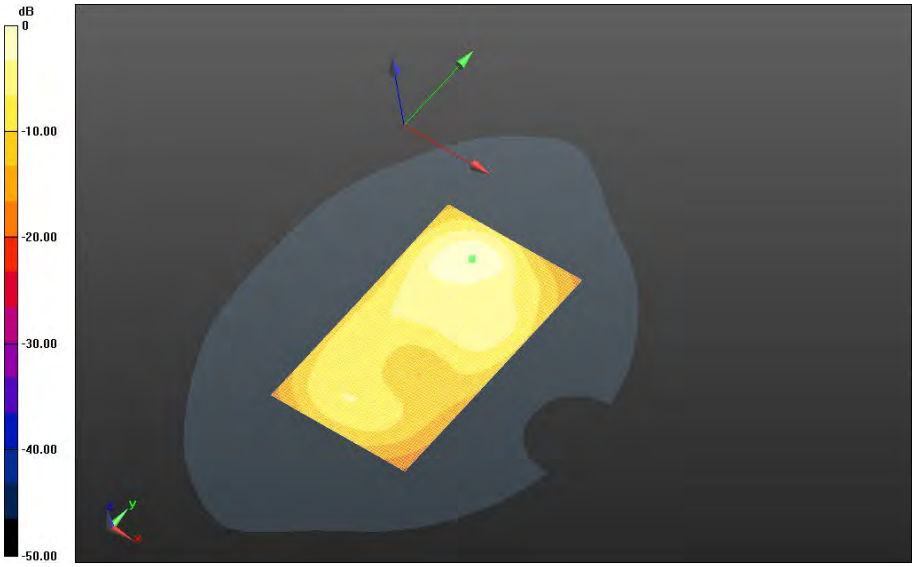
Mobile Hot Spot MSL - UMTS Band II/10mm Device Back HSUPA -UMTS Band II_chan9538_amb_temp_22.6C_liq_temp_21.1C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 10.067 V/m; **Power Drift = 0.340 dB**

Fast SAR: SAR(1g) = 1.12 W/kg; SAR(10g) = 0.603 W/kg
Maximum value of SAR (interpolated) = 1.46 W/kg



0 dB = 1.33 W/kg = 1.24 dBW/kg

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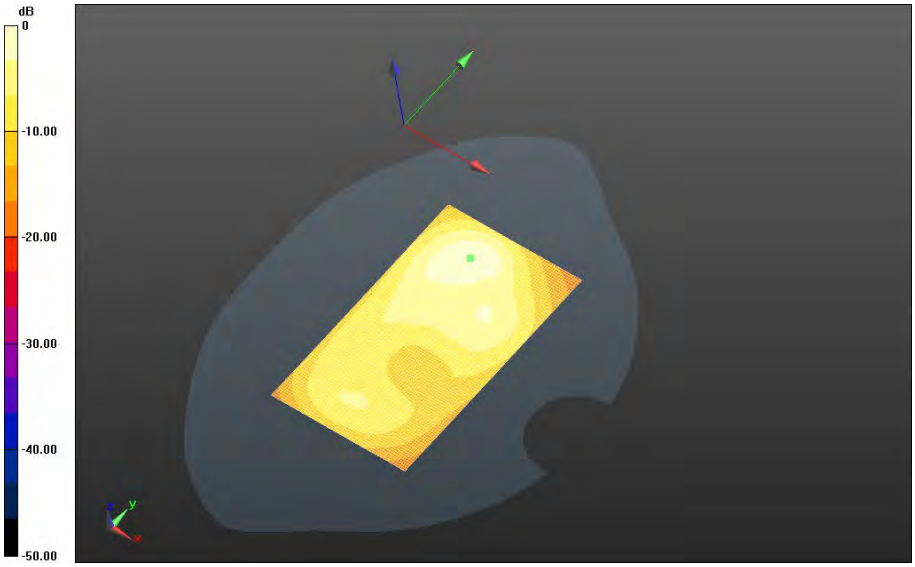
Mobile Hot Spot MSL - UMTS Band II/10mm Device Back HSDPA+ -UMTS Band II_chan9538_amb_temp_22.6C_liq_temp_21.1C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 10.009 V/m; **Power Drift = 0.157 dB**

Fast SAR: SAR(1g) = 1.03 W/kg; SAR(10g) = 0.562 W/kg
Maximum value of SAR (interpolated) = 1.35 W/kg



0 dB = 1.46 W/kg = 1.64 dBW/kg

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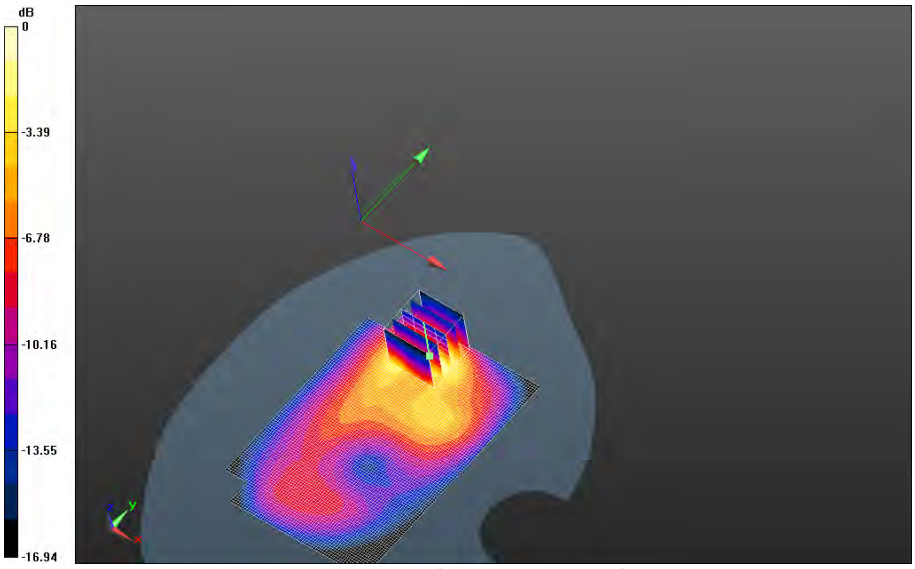
Mobile Hot Spot MSL - UMTS Band II/10mm Device Back Headset -UMTS Band II_chan9538_amb_temp_23.9C_liq_temp_21.2C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 11.309 V/m; **Power Drift = 0.00508 dB**

Fast SAR: SAR(1g) = 1.19 W/kg; SAR(10g) = 0.604 W/kg
Maximum value of SAR (interpolated) = 1.62 W/kg

Mobile Hot Spot MSL - UMTS Band II/10mm Device Back Headset -UMTS Band II_chan9538_amb_temp_23.9C_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 = 11.309 V/m; **Power Drift = 0.00508 dB**

Averaged SAR: SAR(1g) = 1.28 W/kg; SAR(10g) = 0.668 W/kg
Maximum value of SAR (interpolated) = 2.26 W/kg



0 dB = 1.35 W/kg = 1.30 dBW/kg

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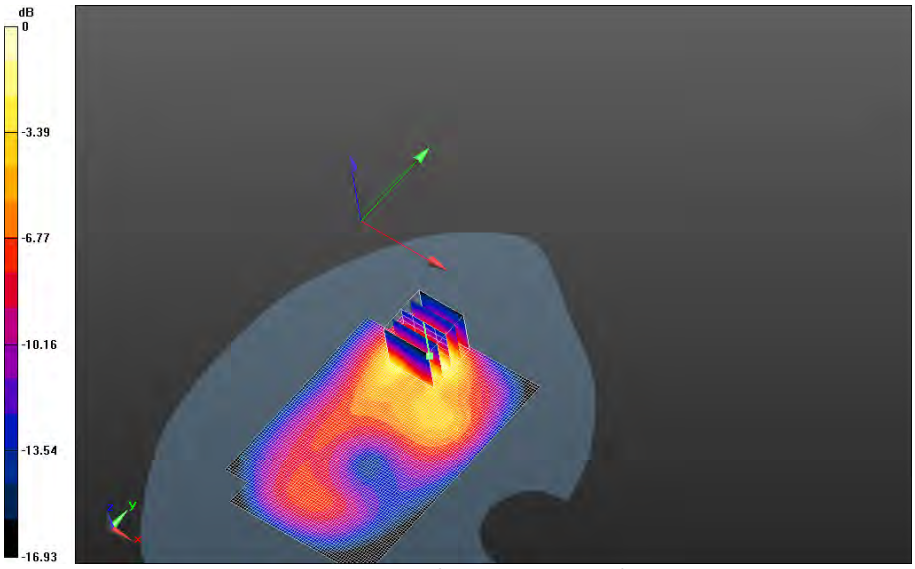
Mobile Hot Spot MSL - UMTS Band II/10mm Device Back 2nd Scan -UMTS Band II_chan9538_amb_temp_23.1C_liq_temp_21.1C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 11.308 V/m; **Power Drift = -0.145 dB**

Fast SAR: SAR(1g) = 1.28 W/kg; SAR(10g) = 0.654 W/kg
Maximum value of SAR (interpolated) = 1.71 W/kg

Mobile Hot Spot MSL - UMTS Band II/10mm Device Back 2nd Scan -UMTS Band II_chan9538_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 = 11.308 V/m; **Power Drift = -0.145 dB**

Averaged SAR: SAR(1g) = 1.38 W/kg; SAR(10g) = 0.723 W/kg
Maximum value of SAR (interpolated) = 2.43 W/kg



0 dB = 1.61 W/kg = 2.07 dBW/kg

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802.11b

Date: 7/18/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFEC30B

Configuration: Mobile Hot Spot MSL - 802.11b

Communication System: 802.11 b (2450) (0); Communication System Band: 802.11 b;
Frequency: 2412 MHz
Medium Parameters used: f=2412 MHz; σ = 1.952 S/m; ε_r = 50.540; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (4.28,4.28,4.28); Calibrated: 1/22/2014;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Mobile Hot Spot MSL - 802.11b/10mm Device Back - 802.11b_chan1_amb_temp_24.2C_liq_temp_22.8C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 6.544 V/m; **Power Drift = 0.028 dB**

Fast SAR: SAR(1g) = 0.298 W/kg; SAR(10g) = 0.135 W/kg
Maximum value of SAR (interpolated) = 0.432 W/kg

Mobile Hot Spot MSL - 802.11b/10mm Device Back - 802.11b_chan1_amb_temp_24.2C_liq_temp_22.8C/Zoom Scan (31x31x36)/Cube 0:
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 6.544 V/m; **Power Drift = 0.028 dB**

Averaged SAR: SAR(1g) = 0.307 W/kg; SAR(10g) = 0.142 W/kg
Maximum value of SAR (interpolated) = 0.638 W/kg

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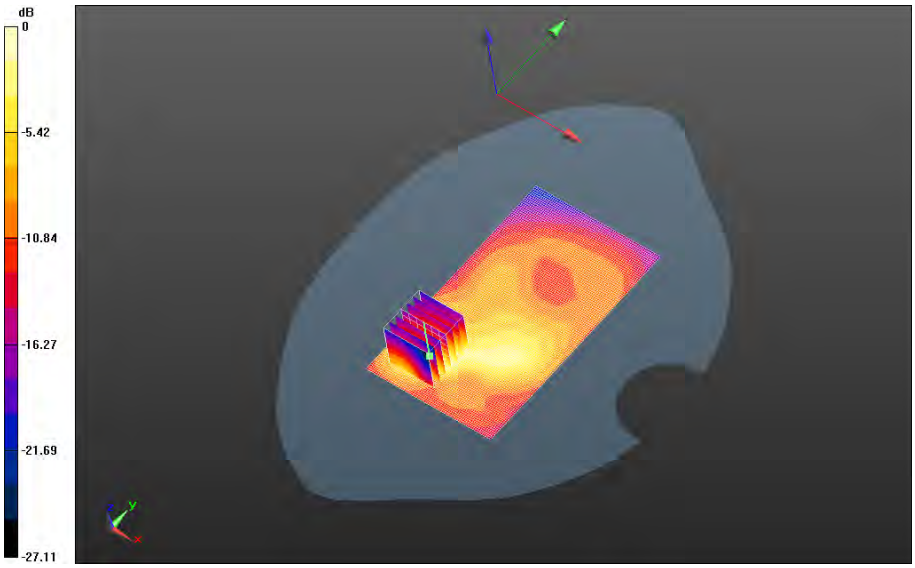

0 dB = 0.404 W/kg = -3.94 dBW/kg

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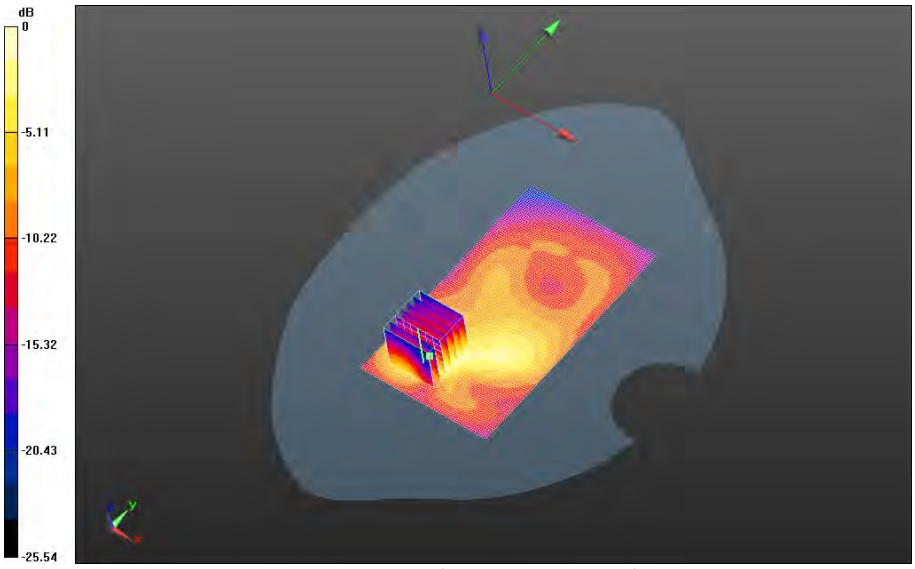
Mobile Hot Spot MSL - 802.11b/10mm Device Back - 802.11b_chan6_amb_temp_24.2C_liq_temp_22.8C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 6.975 V/m; **Power Drift = 0.059 dB**

Fast SAR: SAR(1g) = 0.365 W/kg; SAR(10g) = 0.167 W/kg
Maximum value of SAR (interpolated) = 0.519 W/kg

Mobile Hot Spot MSL - 802.11b/10mm Device Back - 802.11b_chan6_amb_temp_24.2C_liq_temp_22.8C/Zoom Scan (31x31x36)/Cube 0:
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 6.975 V/m; **Power Drift = 0.059 dB**

Averaged SAR: SAR(1g) = 0.380 W/kg; SAR(10g) = 0.176 W/kg
Maximum value of SAR (interpolated) = 0.794 W/kg



0 dB = 0.404 W/kg = -3.94 dBW/kg

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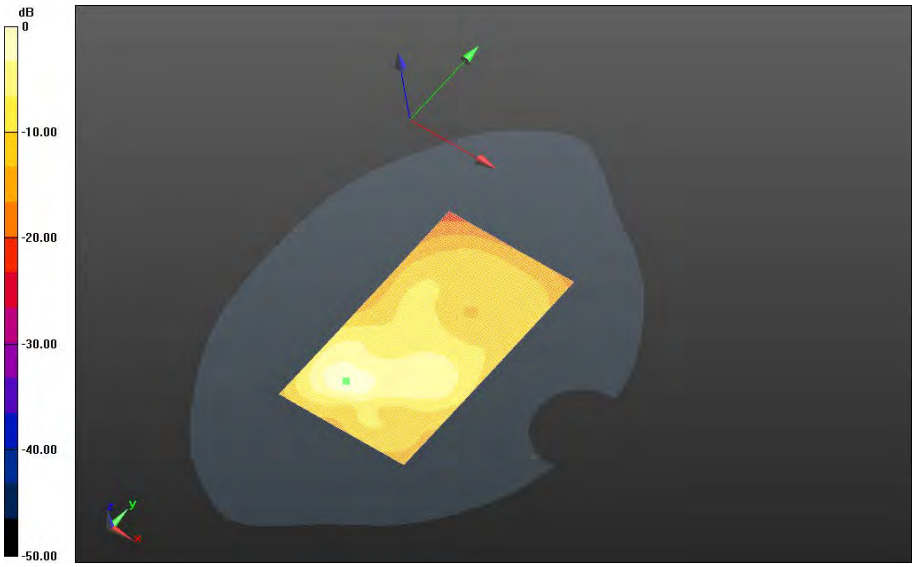
Mobile Hot Spot MSL - 802.11b/10mm Device Back - 802.11b_chan11_amb_temp_24.2C_liq_temp_22.8C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 6.698 V/m; **Power Drift = 0.012 dB**

Fast SAR: SAR(1g) = 0.362 W/kg; SAR(10g) = 0.163 W/kg
Maximum value of SAR (interpolated) = 0.535 W/kg



0 dB = 0.483 W/kg = -3.16 dBW/kg

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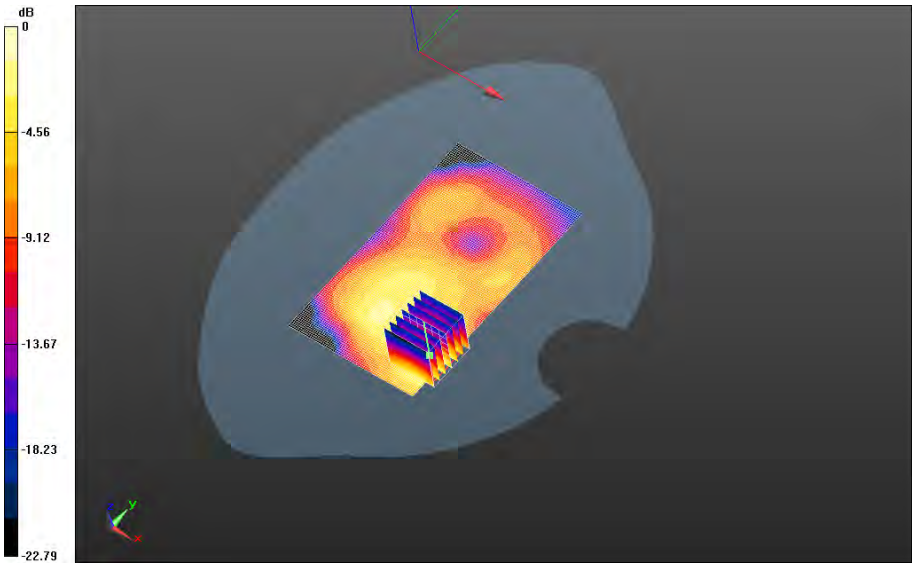
Mobile Hot Spot MSL - 802.11b/10mm Device Front - 802.11b_chan6_amb_temp_24.1C_liq_temp_22.8C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 4.416 V/m; **Power Drift = 0.117 dB**

Fast SAR: SAR(1g) = 0.0895 W/kg; SAR(10g) = 0.0444 W/kg
Maximum value of SAR (interpolated) = 0.116 W/kg

Mobile Hot Spot MSL - 802.11b/10mm Device Front - 802.11b_chan6_amb_temp_24.1C_liq_temp_22.8C/Zoom Scan (31x31x36)/Cube 0:
Interpolated grid: dx=**1.000** mm, dy=**1.000** mm, dz=**1.000** mm
Reference Value = 4.416 V/m; **Power Drift = 0.117 dB**

Averaged SAR: SAR(1g) = 0.0907 W/kg; SAR(10g) = 0.0445 W/kg
Maximum value of SAR (interpolated) = 0.187 W/kg



0 dB = 0.535 W/kg = -2.72 dBW/kg

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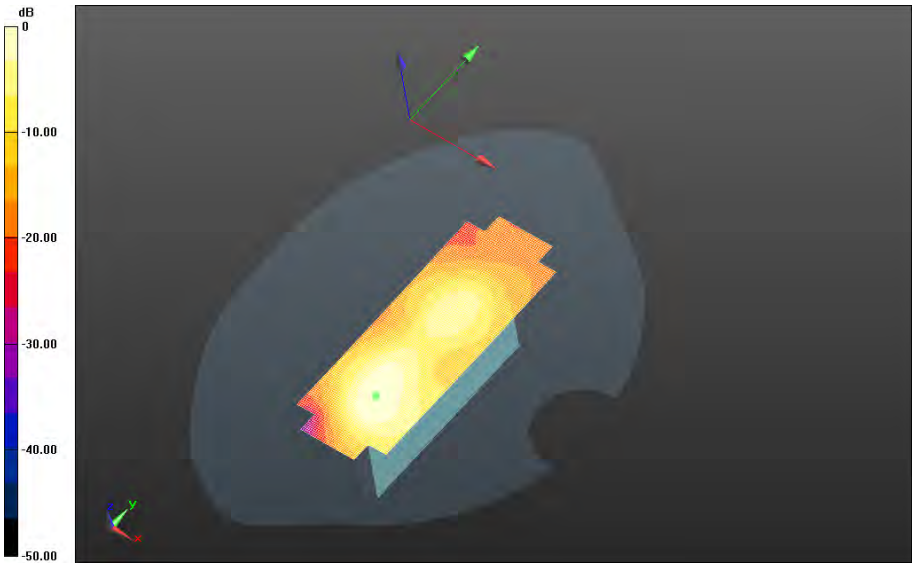
Mobile Hot Spot MSL - 802.11b/10mm Device Left - 802.11b_chan6_amb_temp_24.1C_liq_temp_23.0C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 4.900 V/m; **Power Drift = 0.00475 dB**

Fast SAR: SAR(1g) = 0.154 W/kg; SAR(10g) = 0.0781 W/kg
Maximum value of SAR (interpolated) = 0.205 W/kg



0 dB = 0.118 W/kg = -9.28 dBW/kg

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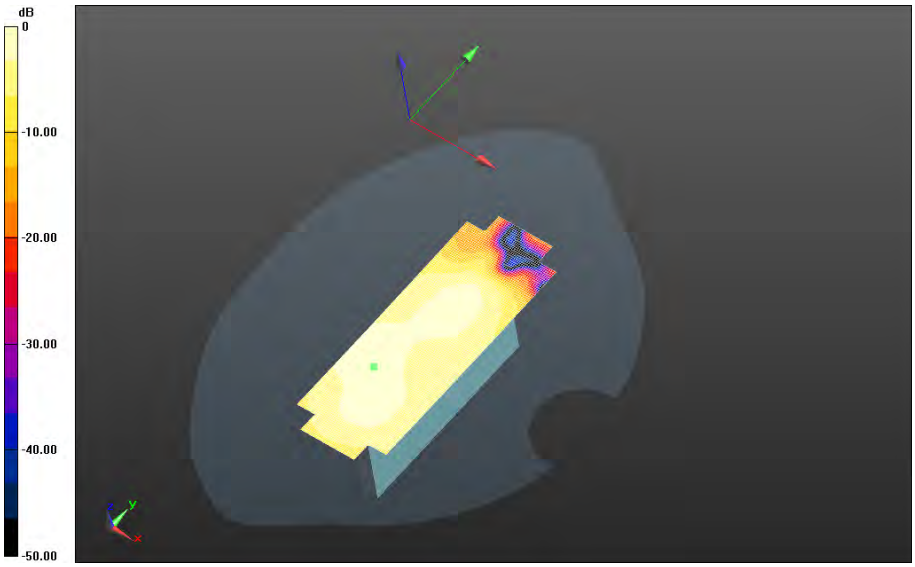
Mobile Hot Spot MSL - 802.11b/10mm Device Right - 802.11b_chan6_amb_temp_24.0C_liq_temp_22.7C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 2.719 V/m; **Power Drift = 0.065 dB**

Fast SAR: SAR(1g) = 0.0212 W/kg; SAR(10g) = 0.0120 W/kg
Maximum value of SAR (interpolated) = 0.0265 W/kg



0 dB = 0.205 W/kg = -6.88 dBW/kg

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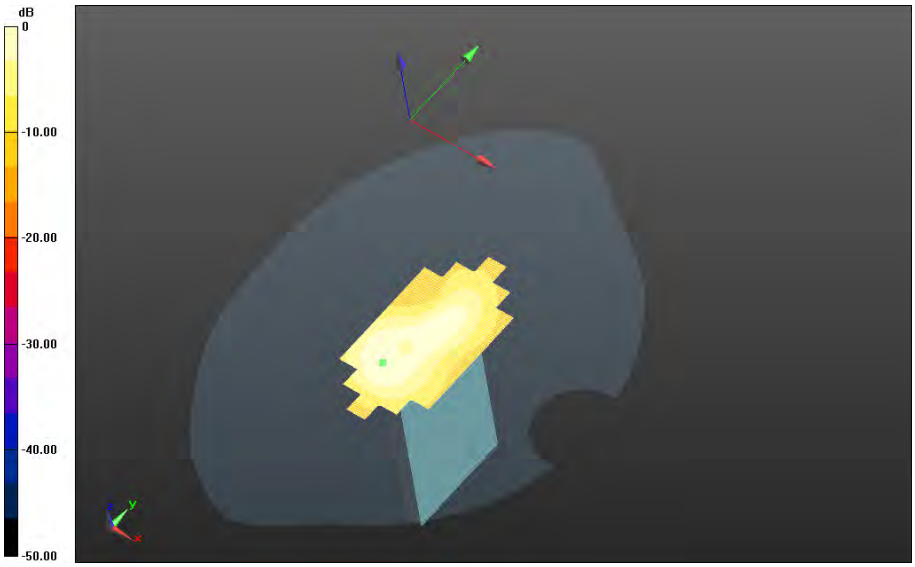
Mobile Hot Spot MSL - 802.11b/10mm Device Top - 802.11b_chan6_amb_temp_24.0C_liq_temp_22.7C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 8.593 V/m; **Power Drift = 0.027 dB**

Fast SAR: SAR(1g) = 0.144 W/kg; SAR(10g) = 0.0732 W/kg
Maximum value of SAR (interpolated) = 0.187 W/kg



0 dB = 0.0265 W/kg = -15.77 dBW/kg

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Bluetooth

Date: 7/18/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFEC30B

Configuration: Mobile Hot Spot MSL - BT

Communication System: Bluetooth (0); Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 2441 MHz
Medium Parameters used: f=2441 MHz; σ = 1.992 S/m; ε_r = 50.443; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (4.28,4.28,4.28); Calibrated: 1/22/2014;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Mobile Hot Spot MSL - BT/10mm Device Back - Bluetooth_chan39_amb_temp_23.1C_liq_temp_22.0C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0388 W/kg

Mobile Hot Spot MSL - BT/10mm Device Back - Bluetooth_chan39_amb_temp_23.1C_liq_temp_22.0C/Zoom Scan (31x31x36)/Cube 0:
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 1.546 V/m; **Power Drift = -0.122 dB**

Averaged SAR: SAR(1g) = 0.0282 W/kg; SAR(10g) = 0.0129 W/kg
Maximum value of SAR (interpolated) = 0.0589 W/kg

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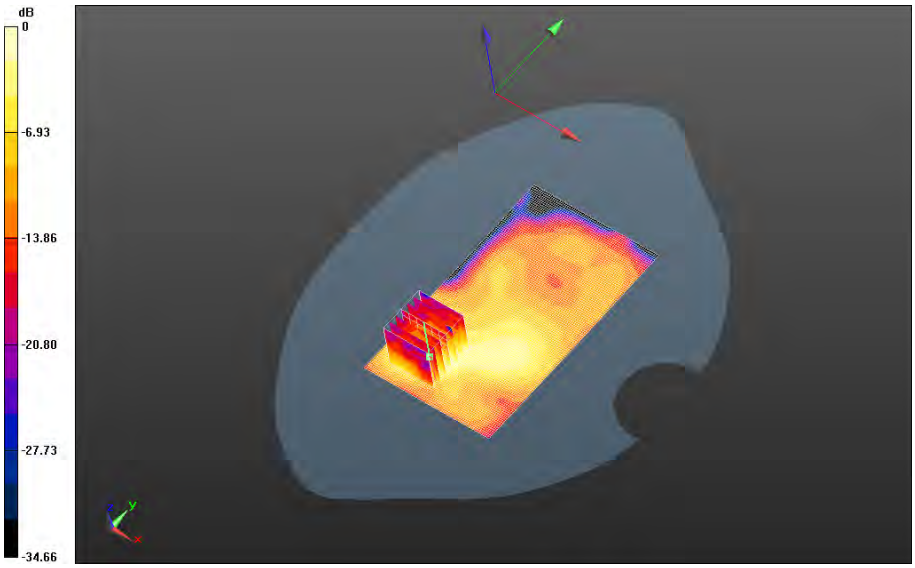

0 dB = 0.0374 W/kg = -14.27 dBW/kg

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802.11a

Date: 7/31/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFEC30B

Configuration: Mobile Hot Spot MSL - 802.11a 5200 MHz

Communication System: 802.11a (0); Communication System Band: Low and Mid Bands; Frequency: 5180 MHz
Medium Parameters used: f=5180 MHz; σ = 5.352 S/m; ε_r = 47.252; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3548; ConvF: (4.83,4.83,4.83); Calibrated: 1/17/2014;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Mobile Hot Spot MSL - 802.11a 5200 MHz/10mm Device Back - 802.11a_chan36_low_band_Amb_Temp_24.0C_Liquid_Temp_21.9C/Area Scan (181x241x1):
Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.482 W/kg

Mobile Hot Spot MSL - 802.11a 5200 MHz/10mm Device Back - 802.11a_chan36_low_band_Amb_Temp_24.0C_Liquid_Temp_21.9C/Zoom Scan (36x36x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 2.052 V/m; **Power Drift = 0.030 dB**

Averaged SAR: SAR(1g) = 0.257 W/kg; SAR(10g) = 0.0859 W/kg
Maximum value of SAR (interpolated) = 1.12 W/kg

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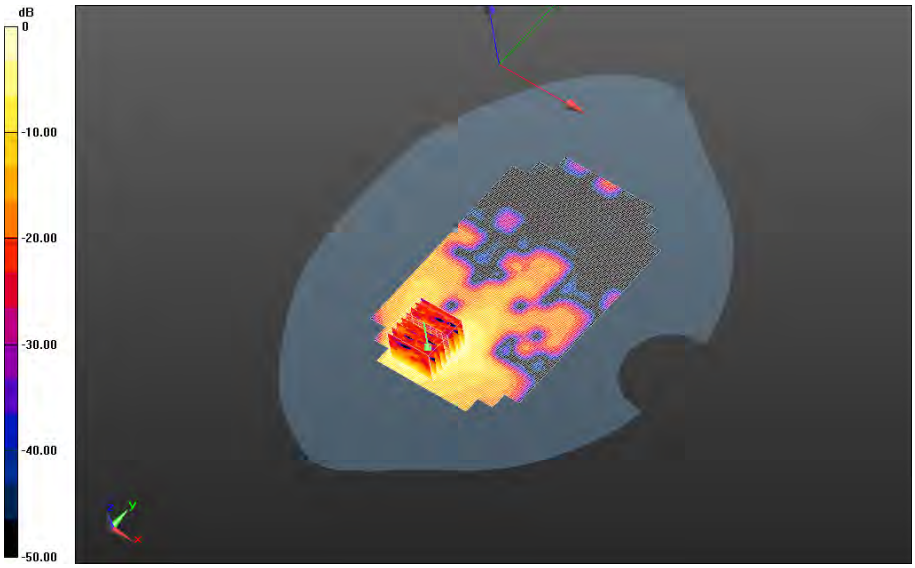

0 dB = 0.510 W/kg = -2.92 dBW/kg

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Date: 8/1/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFEC30B

Configuration: Mobile Hot Spot MSL - 802.11a 5800 MHz

Communication System: 802.11a; Communication System Band: Low and Mid Bands; Frequency: 5745 MHz
Medium Parameters used: f=5745 MHz; σ = 6.060 S/m; ε_r = 47.036; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3548; ConvF: (4.36,4.36,4.36); Calibrated: 1/17/2014;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Mobile Hot Spot MSL - 802.11a 5800 MHz/10mm Device Back - 802.11a_chan149_upper_bandII_Amb_Temp_22.9C_Liquid_Temp_22.1C/Area Scan (181x241x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.575 W/kg

Mobile Hot Spot MSL - 802.11a 5800 MHz/10mm Device Back - 802.11a_chan149_upper_bandII_Amb_Temp_22.9C_Liquid_Temp_22.1C/Zoom Scan (41x41x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 1.585 V/m; **Power Drift = -0.072 dB**

Averaged SAR: SAR(1g) = 0.297 W/kg; SAR(10g) = 0.114 W/kg
Maximum value of SAR (interpolated) = 1.21 W/kg

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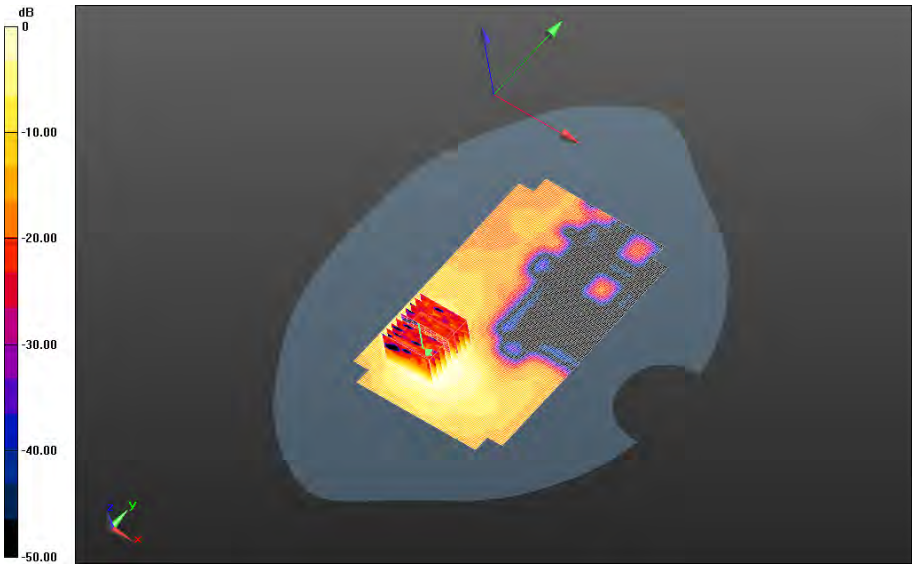

0 dB = 0.557 W/kg = -2.54 dBW/kg

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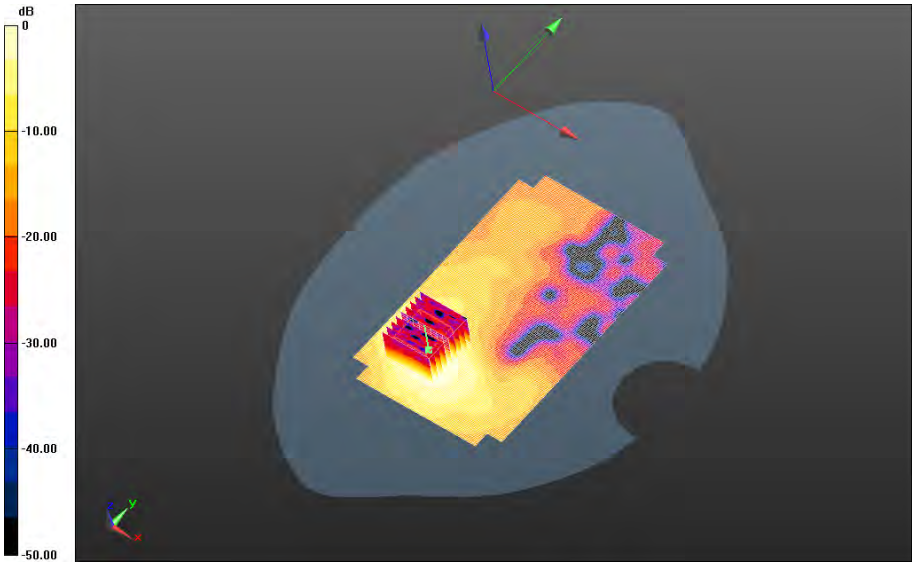
Mobile Hot Spot MSL - 802.11a 5800 MHz/10mm Device Back - 802.11a_chan157_upper_bandII_Amb_Temp_23.0C_Liquid_Temp_22.0C/Area Scan (181x241x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.78 W/kg

Mobile Hot Spot MSL - 802.11a 5800 MHz/10mm Device Back - 802.11a_chan157_upper_bandII_Amb_Temp_23.0C_Liquid_Temp_22.0C/Zoom Scan (41x41x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 2.800 V/m; **Power Drift = 0.156 dB**

Averaged SAR: SAR(1g) = 0.955 W/kg; SAR(10g) = 0.366 W/kg
Maximum value of SAR (interpolated) = 3.79 W/kg



0 dB = 0.557 W/kg = -2.54 dBW/kg

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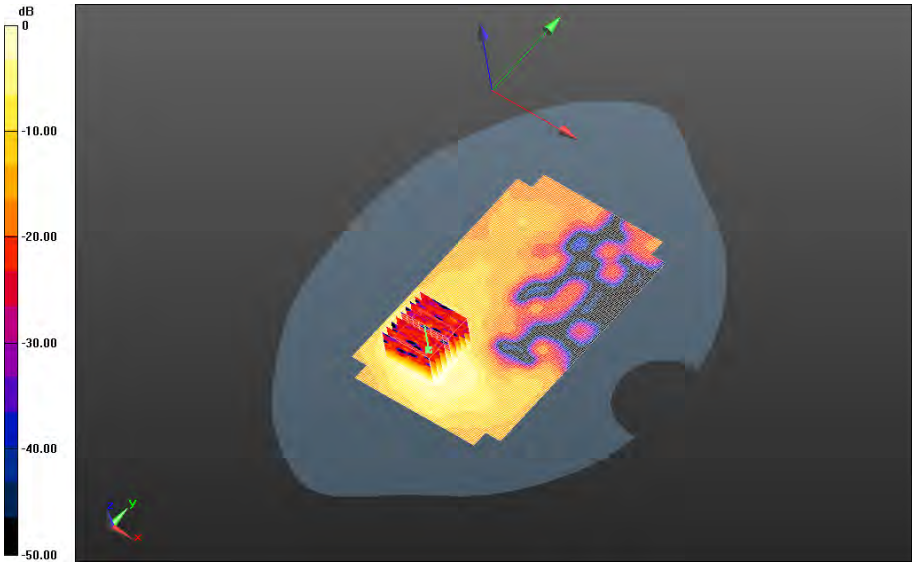
Mobile Hot Spot MSL - 802.11a 5800 MHz/10mm Device Back - 802.11a_chan165_upper_bandII_Amb_Temp_22.8C_Liquid_Temp_21.9C/Area Scan (181x241x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.737 W/kg

Mobile Hot Spot MSL - 802.11a 5800 MHz/10mm Device Back - 802.11a_chan165_upper_bandII_Amb_Temp_22.8C_Liquid_Temp_21.9C/Zoom Scan (41x41x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 1.935 V/m; **Power Drift = 0.045 dB**

Averaged SAR: SAR(1g) = 0.388 W/kg; SAR(10g) = 0.144 W/kg
Maximum value of SAR (interpolated) = 1.59 W/kg



0 dB = 1.76 W/kg = 2.46 dBW/kg

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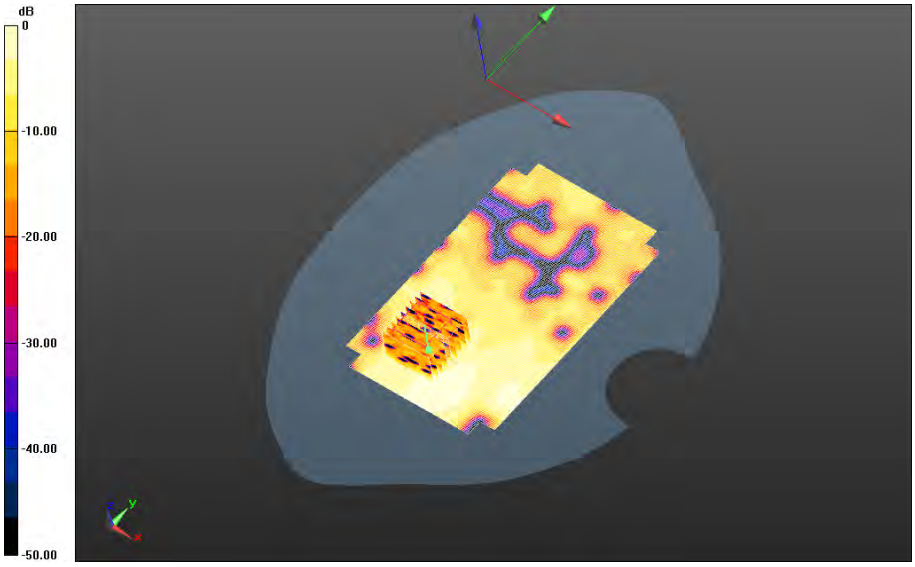
Mobile Hot Spot MSL - 802.11a 5800 MHz/10mm Device Front - 802.11a_chan157_upper_bandII_Amb_Temp_22.9C_Liquid_Temp_21.7C/Area Scan (181x241x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.121 W/kg

Mobile Hot Spot MSL - 802.11a 5800 MHz/10mm Device Front - 802.11a_chan157_upper_bandII_Amb_Temp_22.9C_Liquid_Temp_21.7C/Zoom Scan (41x41x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 2.003 V/m; **Power Drift = -0.279 dB**

Averaged SAR: SAR(1g) = 0.0551 W/kg; SAR(10g) = 0.0179 W/kg
Maximum value of SAR (interpolated) = 0.212 W/kg



0 dB = 0.719 W/kg = -1.43 dBW/kg

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Mobile Hot Spot MSL - 802.11a 5800 MHz/10mm Device Left - 802.11a_chan157_upper_bandII_Amb_Temp_22.9C_Liquid_Temp_21.7C/Area Scan (181x241x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.497 W/kg

Mobile Hot Spot MSL - 802.11a 5800 MHz/10mm Device Left - 802.11a_chan157_upper_bandII_Amb_Temp_22.9C_Liquid_Temp_21.7C/Zoom Scan (41x41x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 5.338 V/m; **Power Drift = 0.192 dB**

Averaged SAR: SAR(1g) = 0.263 W/kg; SAR(10g) = 0.104 W/kg
Maximum value of SAR (interpolated) = 1.09 W/kg

0 dB = 0.115 W/kg = -9.39 dBW/kg

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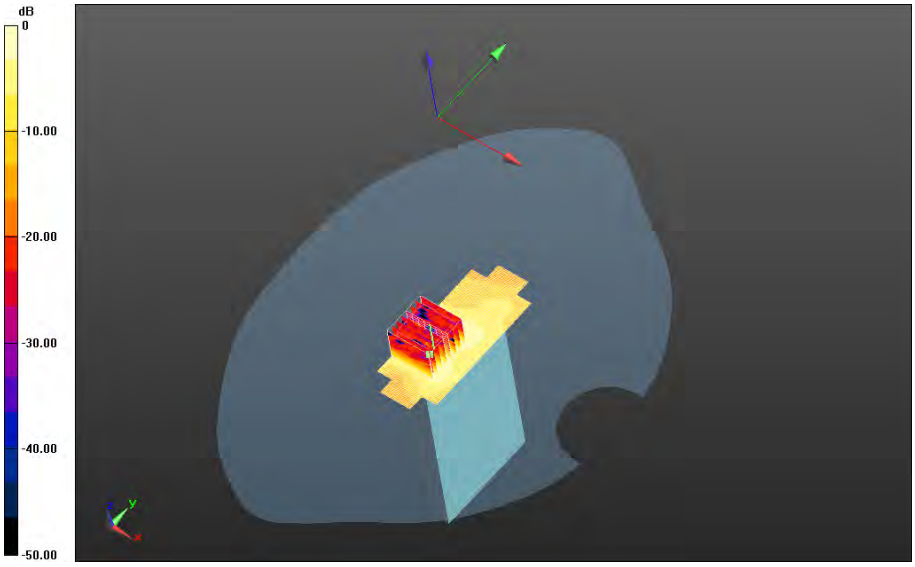
Mobile Hot Spot MSL - 802.11a 5800 MHz/10mm Device Top - 802.11a_chan149_upper_bandII_Amb_Temp_23.1C_Liquid_Temp_22.0C/Area Scan (181x241x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.875 W/kg

Mobile Hot Spot MSL - 802.11a 5800 MHz/10mm Device Top - 802.11a_chan149_upper_bandII_Amb_Temp_23.1C_Liquid_Temp_22.0C/Zoom Scan (36x36x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 8.903 V/m; **Power Drift = -0.032 dB**

Averaged SAR: SAR(1g) = 0.425 W/kg; SAR(10g) = 0.145 W/kg
Maximum value of SAR (interpolated) = 1.91 W/kg



0 dB = 0.489 W/kg = -3.11 dBW/kg

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