APPENDIX C1: SAR DISTRIBUTION PLOTS FOR HOT SPOT CONFIGURATION

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LTE Band 17

Date: 11/19/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFEDD1D

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 = 0.921 S/m; ε_r = 54.728; 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 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Mobile Hot Spot MSL - LTE Band 17/10mm Device Back - LTE band 17_chan23780_10MHz_BW_RB1_Offset_High_amb_temp_23.7C_liq_temp_21.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 18.999 V/m; **Power Drift = 0.00732 dB**

Fast SAR: SAR(1g) = 0.620 W/kg; SAR(10g) = 0.420 W/kg
Maximum value of SAR (interpolated) = 0.699 W/kg

Mobile Hot Spot MSL - LTE Band 17/10mm Device Back - LTE band 17_chan23780_10MHz_BW_RB1_Offset_High_amb_temp_23.7C_liq_temp_21.6C/Zoom Scan (21x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 18.999 V/m; **Power Drift = 0.00732 dB**

Averaged SAR: SAR(1g) = 0.633 W/kg; SAR(10g) = 0.426 W/kg
Maximum value of SAR (interpolated) = 0.915 W/kg

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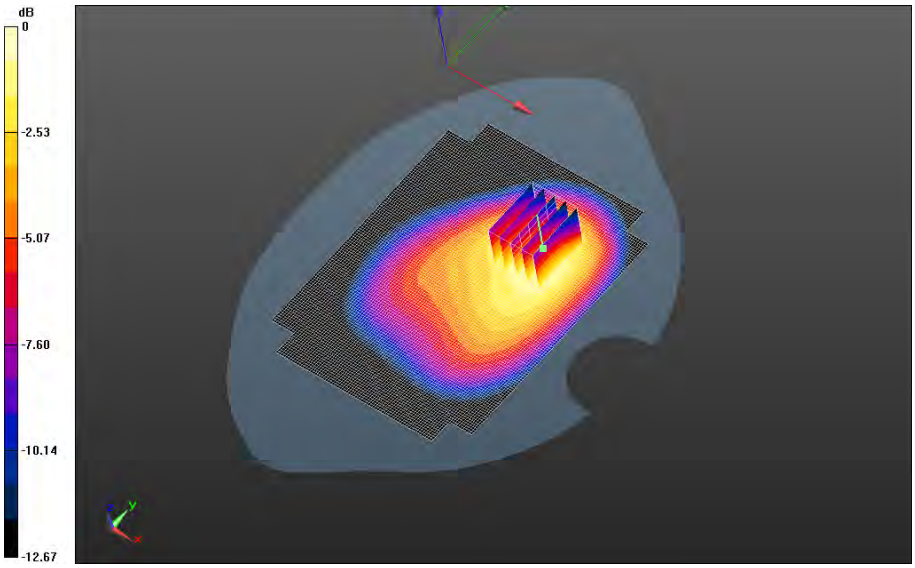

0 dB = 0.718 W/kg = -1.44 dBW/kg

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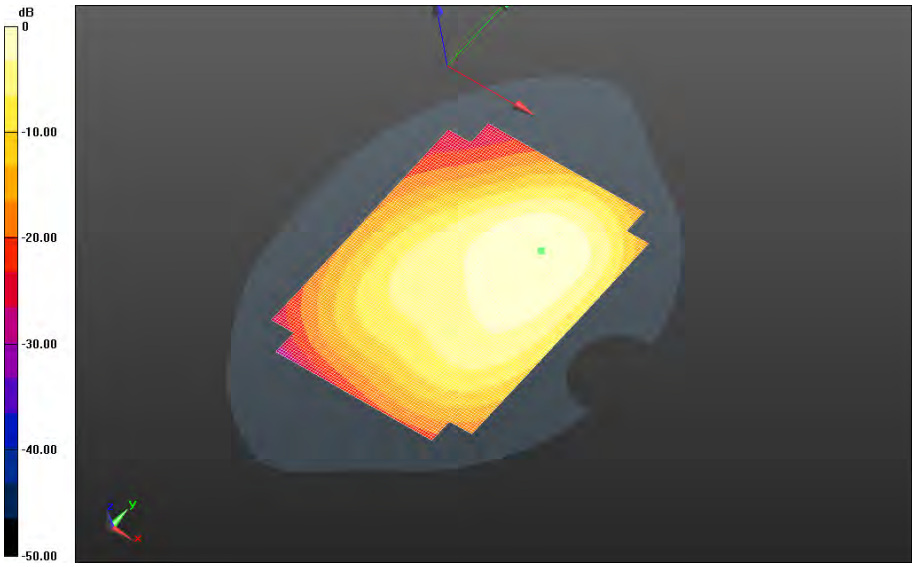
Mobile Hot Spot MSL - LTE Band 17/10mm Device Back -LTE band 17_chan23790_10MHz_BW_RB1_Offset_High_amb_temp_23.8C_liq_temp_21.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 18.916 V/m; **Power Drift = 0.013 dB**

Fast SAR: SAR(1g) = 0.605 W/kg; SAR(10g) = 0.411 W/kg
Maximum value of SAR (interpolated) = 0.682 W/kg



0 dB = 0.682 W/kg = -1.66 dBW/kg

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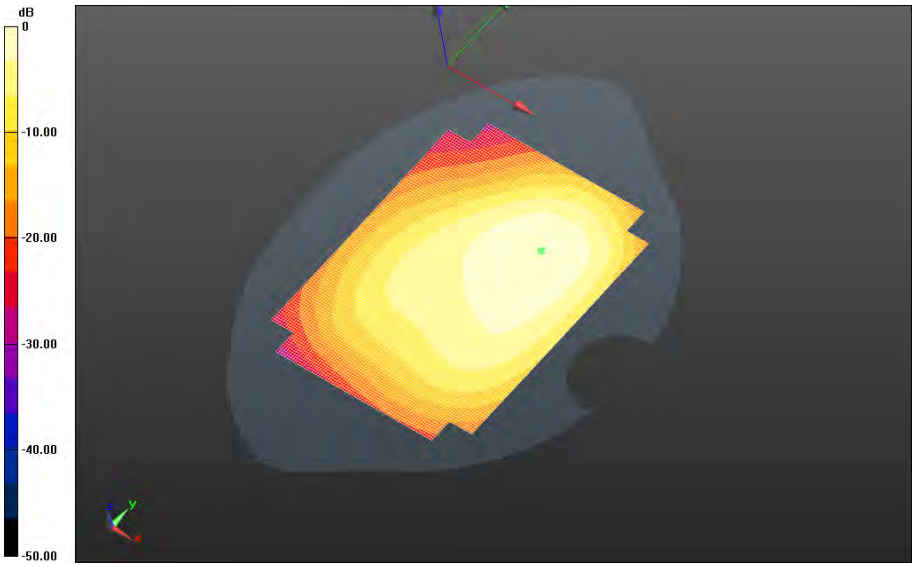
Mobile Hot Spot MSL - LTE Band 17/10mm Device Back - LTE band 17_chan23800_10MHz_BW_RB1_Offset_High_amb_temp_23.9C_liq_temp_21.7C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 18.748 V/m; **Power Drift = 0.070 dB**

Fast SAR: SAR(1g) = 0.595 W/kg; SAR(10g) = 0.405 W/kg
Maximum value of SAR (interpolated) = 0.672 W/kg



0 dB = 0.672 W/kg = -1.73 dBW/kg

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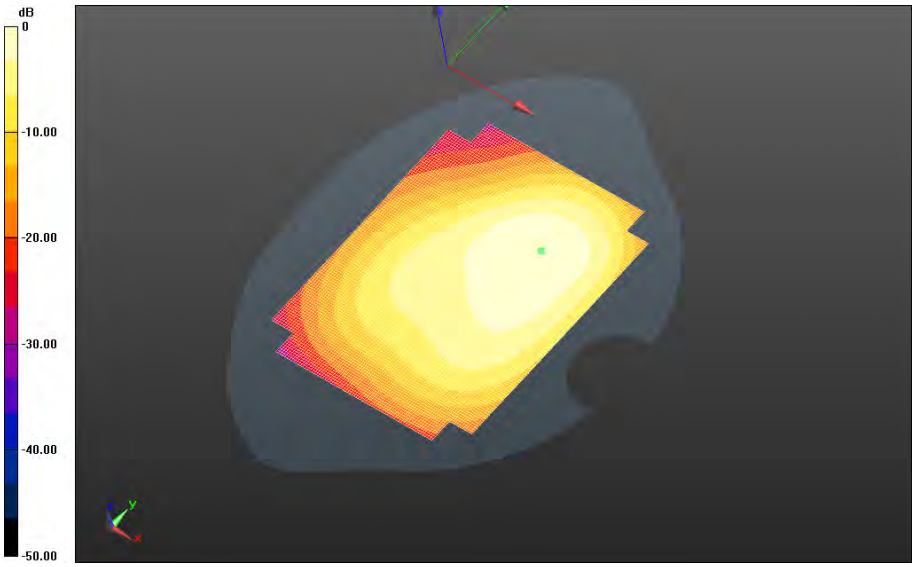
Mobile Hot Spot MSL - LTE Band 17/10mm Device Back - LTE band 17_chan23800_10MHz_BW_RB25_Offset_High_amb_temp_23.6C_liq_temp_21.5C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 17.031 V/m; **Power Drift = -0.00403 dB**

Fast SAR: SAR(1g) = 0.494 W/kg; SAR(10g) = 0.336 W/kg
Maximum value of SAR (interpolated) = 0.557 W/kg



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

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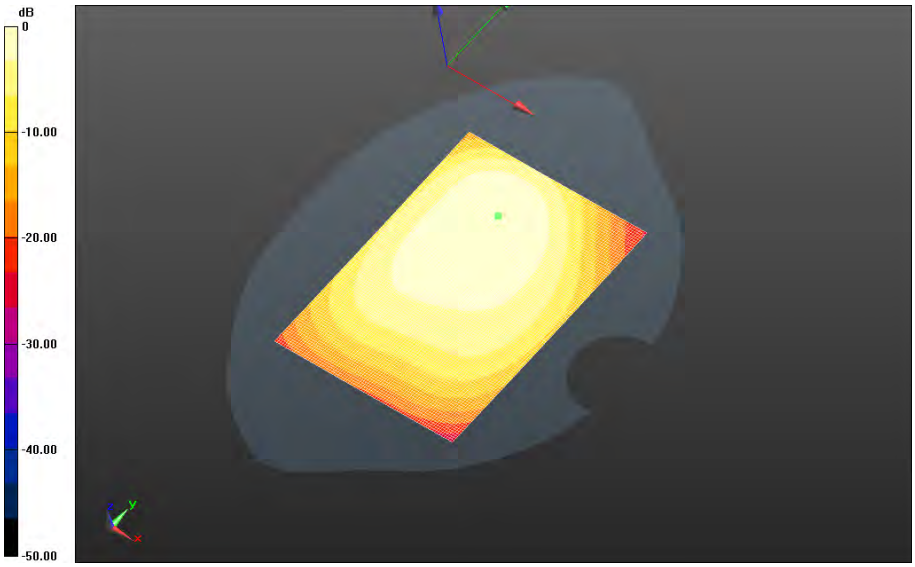
Mobile Hot Spot MSL - LTE Band 17/10mm Device Front - LTE band 17_chan23790_10MHz_BW_RB1_Offset_High_amb_temp_23.6C_liq_temp_21.5C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 15.995 V/m; **Power Drift = -0.055 dB**

Fast SAR: SAR(1g) = 0.319 W/kg; SAR(10g) = 0.225 W/kg
Maximum value of SAR (interpolated) = 0.349 W/kg



0 dB = 0.349 W/kg = -4.57 dBW/kg

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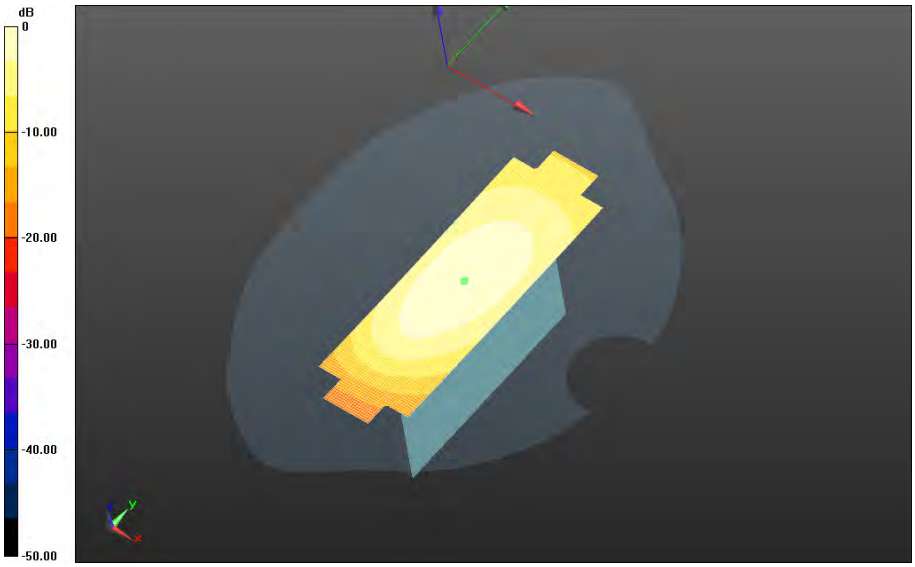
Mobile Hot Spot MSL - LTE Band 17/10mm Device Left - LTE band 17_chan23790_10MHz_BW_RB1_Offset_High_amb_temp_23.7C_liq_temp_21.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.868 V/m; **Power Drift = -0.043 dB**

Fast SAR: SAR(1g) = 0.128 W/kg; SAR(10g) = 0.0866 W/kg
Maximum value of SAR (interpolated) = 0.142 W/kg



0 dB = 0.142 W/kg = -8.48 dBW/kg

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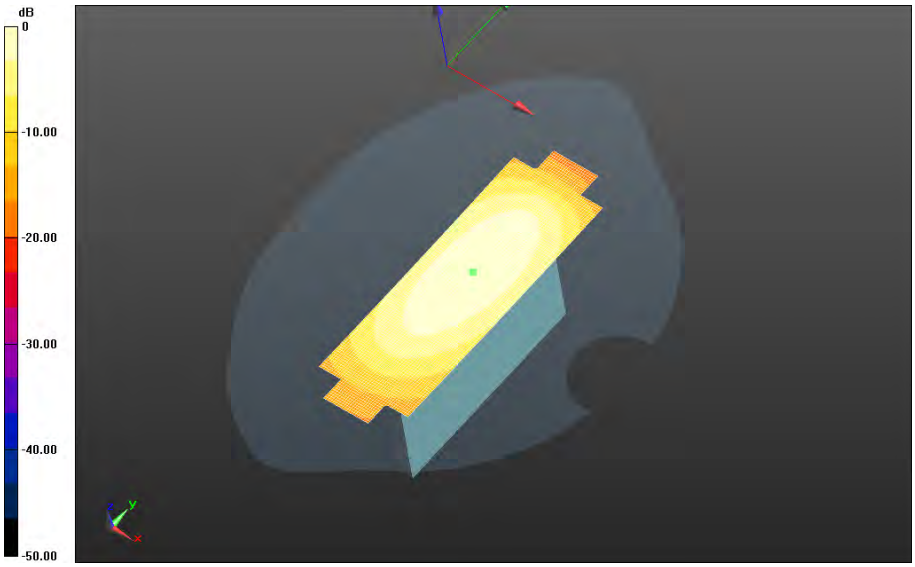
Mobile Hot Spot MSL - LTE Band 17/10mm Device Right - LTE band 17_chan23790_10MHz_BW_RB1_Offset_High_amb_temp_23.7C_liq_temp_21.7C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 21.810 V/m; **Power Drift = -0.048 dB**

Fast SAR: SAR(1g) = 0.375 W/kg; SAR(10g) = 0.255 W/kg
Maximum value of SAR (interpolated) = 0.418 W/kg



0 dB = 0.418 W/kg = -3.79 dBW/kg

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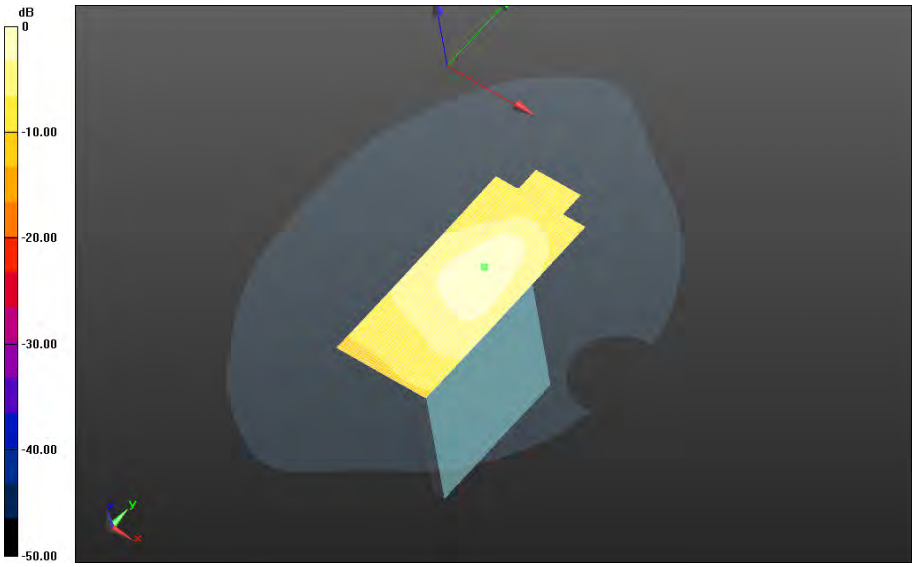
Mobile Hot Spot MSL - LTE Band 17/10mm Device Bottom - LTE band 17_chan23790_10MHz_BW_RB1_Offset_High_amb_temp_23.7C_liq_temp_21.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.800 V/m; **Power Drift = 0.047 dB**

Fast SAR: SAR(1g) = 0.155 W/kg; SAR(10g) = 0.0971 W/kg
Maximum value of SAR (interpolated) = 0.181 W/kg



0 dB = 0.181 W/kg = -7.42 dBW/kg

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LTE Band 5

Date: 11/18/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFEDD1D

Configuration: Mobile Hot Spot MSL - LTE Band 5

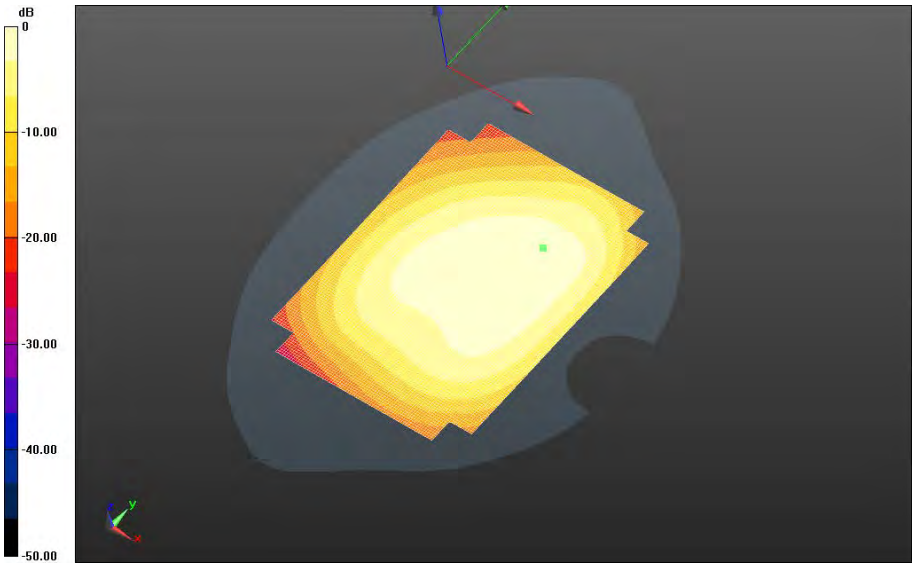
Communication System: LTE 5 (0); Communication System Band: LTE 5; Frequency: 829 MHz
Medium Parameters used: f=829 MHz; σ = 0.960 S/m; ε_r = 53.082; ρ = 1.000 g/cm^3
Phantom section: Flat Section

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

Mobile Hot Spot MSL - LTE Band 5/10mm Device Back - LTE band 5_chan20450_10MHz_BW_RB1_Offset_High_amb_temp_23.7C_liq_temp_21.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 21.842 V/m; **Power Drift = -0.077 dB**

Fast SAR: SAR(1g) = 0.522 W/kg; SAR(10g) = 0.343 W/kg
Maximum value of SAR (interpolated) = 0.627 W/kg



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

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Mobile Hot Spot MSL - LTE Band 5/10mm Device Back - LTE band 5_chan20525_10MHz_BW_RB1_Offset_Low_amb_temp_23.7C_liq_temp_21.7C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 21.565 V/m; **Power Drift = -0.054 dB**

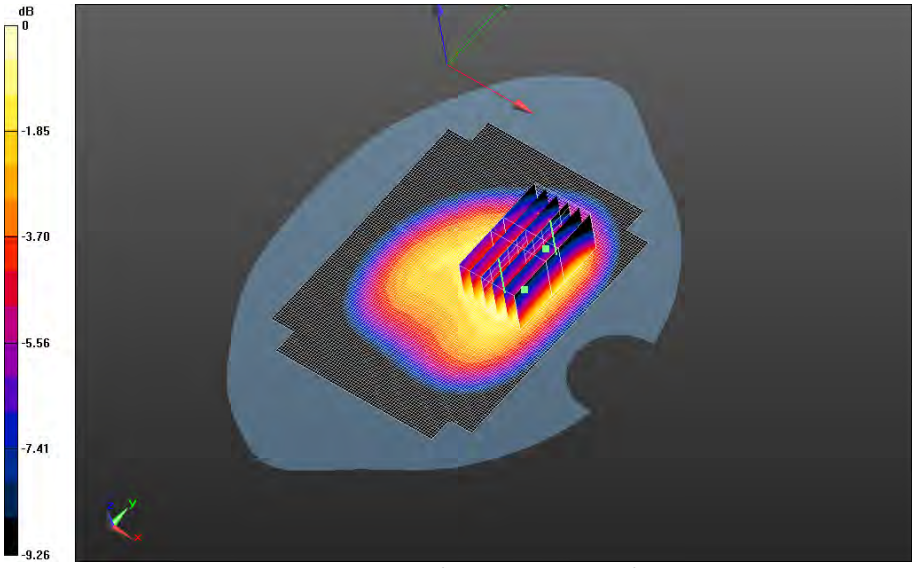
Fast SAR: SAR(1g) = 0.536 W/kg; SAR(10g) = 0.353 W/kg
Maximum value of SAR (interpolated) = 0.644 W/kg

Mobile Hot Spot MSL - LTE Band 5/10mm Device Back - LTE band 5_chan20525_10MHz_BW_RB1_Offset_Low_amb_temp_23.7C_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 = 21.565 V/m; **Power Drift = -0.054 dB**

Averaged SAR: SAR(1g) = 0.605 W/kg; SAR(10g) = 0.407 W/kg
Maximum value of SAR (interpolated) = 0.902 W/kg

Mobile Hot Spot MSL - LTE Band 5/10mm Device Back - LTE band 5_chan20525_10MHz_BW_RB1_Offset_Low_amb_temp_23.7C_liq_temp_21.7C/Zoom Scan 2 (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 21.565 V/m; **Power Drift = 0.513 dB**

Averaged SAR: SAR(1g) = 0.549 W/kg; SAR(10g) = 0.407 W/kg
Maximum value of SAR (interpolated) = 0.726 W/kg



0 dB = 0.609 W/kg = -2.15 dBW/kg

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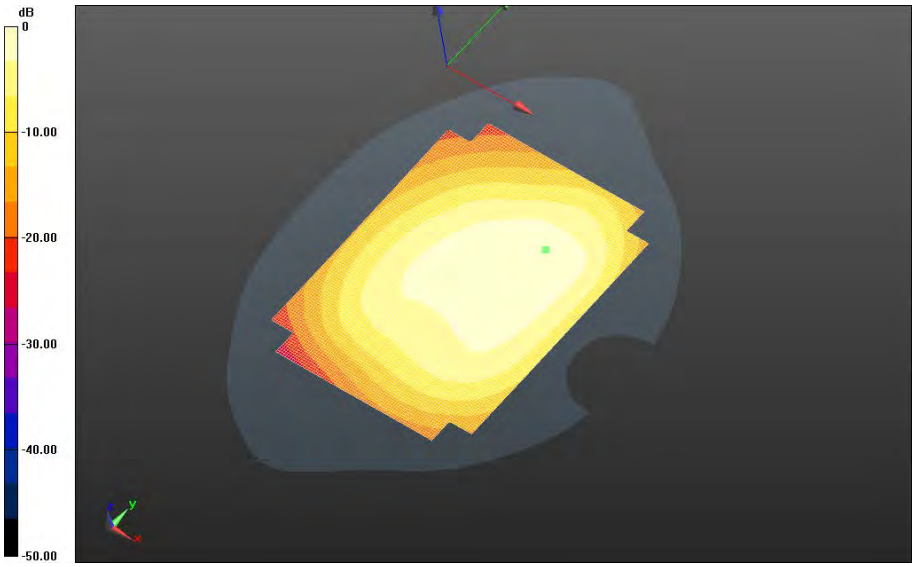
Mobile Hot Spot MSL - LTE Band 5/10mm Device Back - LTE band 5_chan20600_10MHz_BW_RB1_Offset_High_amb_temp_23.7C_liq_temp_21.7C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 19.751 V/m; **Power Drift = 0.045 dB**

Fast SAR: SAR(1g) = 0.505 W/kg; SAR(10g) = 0.327 W/kg
Maximum value of SAR (interpolated) = 0.610 W/kg



0 dB = 0.610 W/kg = -2.15 dBW/kg

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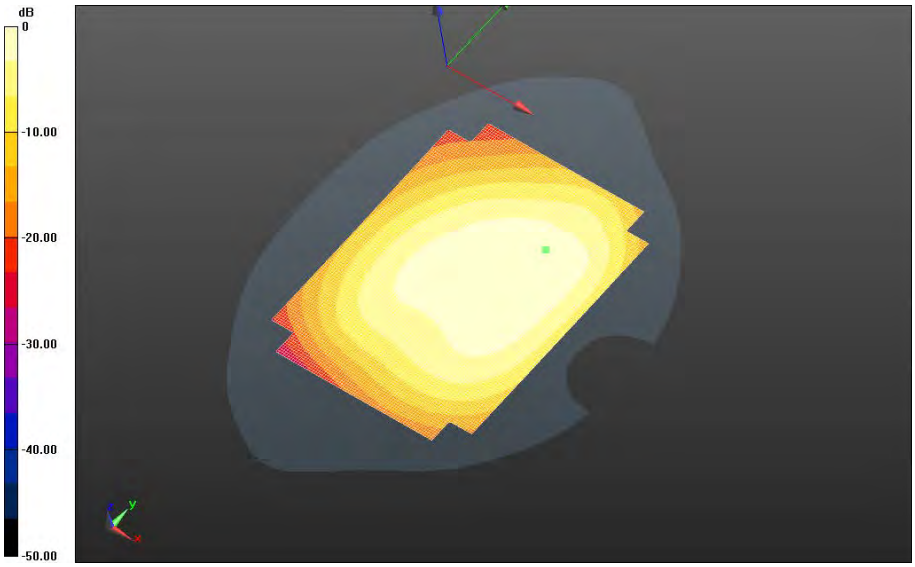
Mobile Hot Spot MSL - LTE Band 5/10mm Device Back - LTE band 5_chan20450_10MHz_BW_RB25_Offset_High_amb_temp_23.6C_liq_temp_21.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 19.096 V/m; **Power Drift = 0.048 dB**

Fast SAR: SAR(1g) = 0.421 W/kg; SAR(10g) = 0.279 W/kg
Maximum value of SAR (interpolated) = 0.504 W/kg



0 dB = 0.504 W/kg = -2.98 dBW/kg

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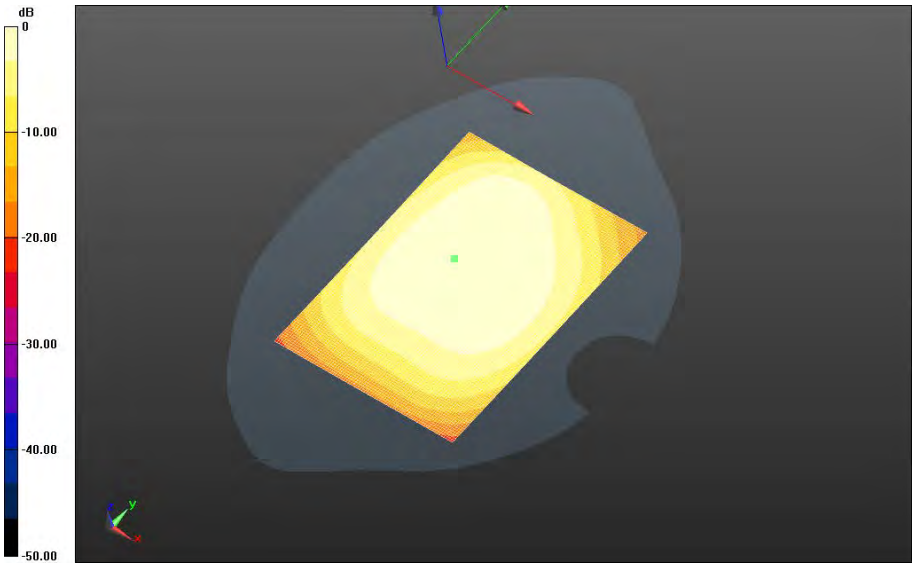
Mobile Hot Spot MSL - LTE Band 5/10mm Device Front - LTE band 5_chan20450_10MHzz_BW_RB1_Offset_High_amb_temp_23.6C_liq_temp_21.5C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 22.578 V/m; **Power Drift = -0.025 dB**

Fast SAR: SAR(1g) = 0.447 W/kg; SAR(10g) = 0.318 W/kg
Maximum value of SAR (interpolated) = 0.504 W/kg



0 dB = 0.504 W/kg = -2.98 dBW/kg

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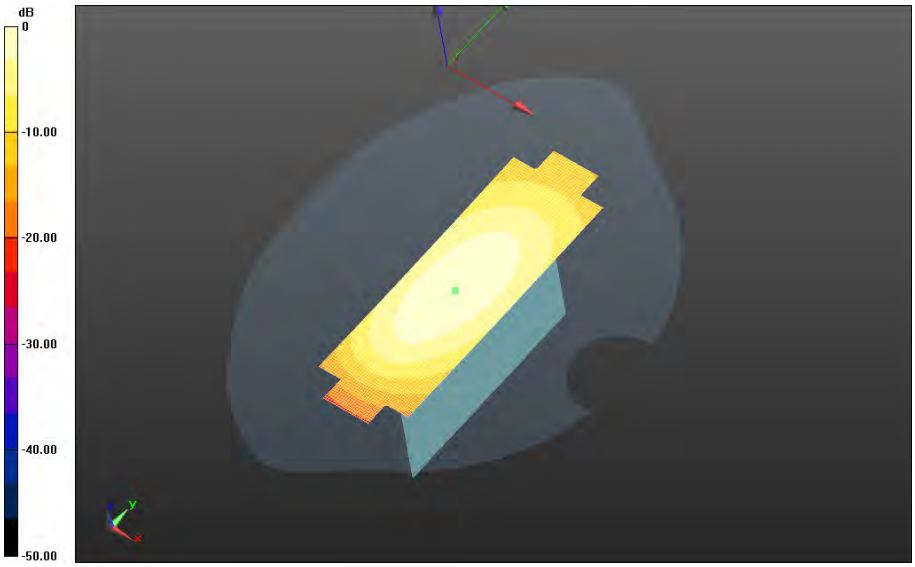
Mobile Hot Spot MSL - LTE Band 5/10mm Device Left - LTE band 5_chan20450_10MHz_BW_RB1_Offset_High_amb_temp_23.7C_liq_temp_21.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 22.701 V/m; **Power Drift = -0.019 dB**

Fast SAR: SAR(1g) = 0.409 W/kg; SAR(10g) = 0.274 W/kg
Maximum value of SAR (interpolated) = 0.472 W/kg



0 dB = 0.472 W/kg = -3.26 dBW/kg

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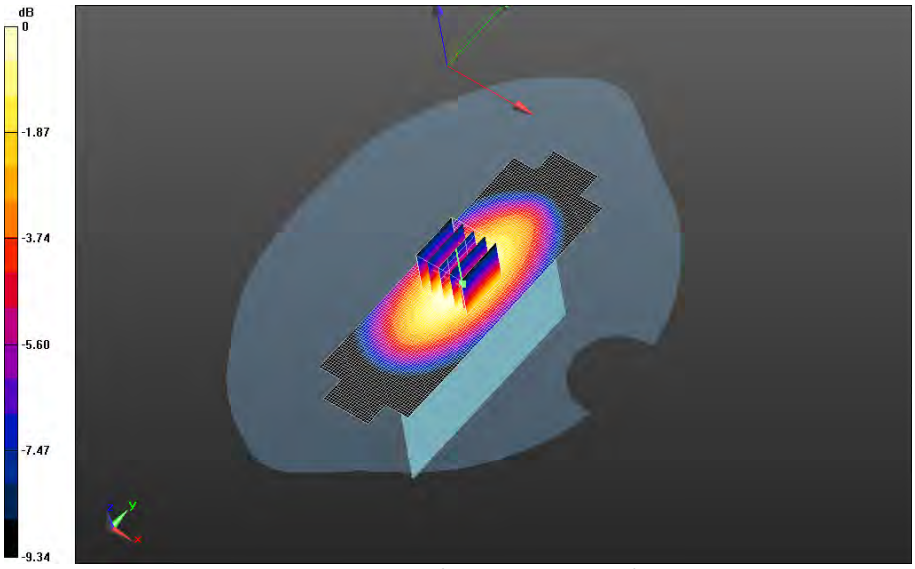
Mobile Hot Spot MSL - LTE Band 5/10mm Device Right - LTE band 5_chan20450_10MHz_BW_RB1_Offset_High_amb_temp_23.8C_liq_temp_21.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 28.237 V/m; **Power Drift = 0.019 dB**

Fast SAR: SAR(1g) = 0.639 W/kg; SAR(10g) = 0.427 W/kg
Maximum value of SAR (interpolated) = 0.736 W/kg

Mobile Hot Spot MSL - LTE Band 5/10mm Device Right - LTE band 5_chan20450_10MHz_BW_RB1_Offset_High_amb_temp_23.8C_liq_temp_21.6C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 28.237 V/m; **Power Drift = 0.019 dB**

Averaged SAR: SAR(1g) = 0.628 W/kg; SAR(10g) = 0.432 W/kg
Maximum value of SAR (interpolated) = 0.890 W/kg



0 dB = 0.721 W/kg = -1.42 dBW/kg

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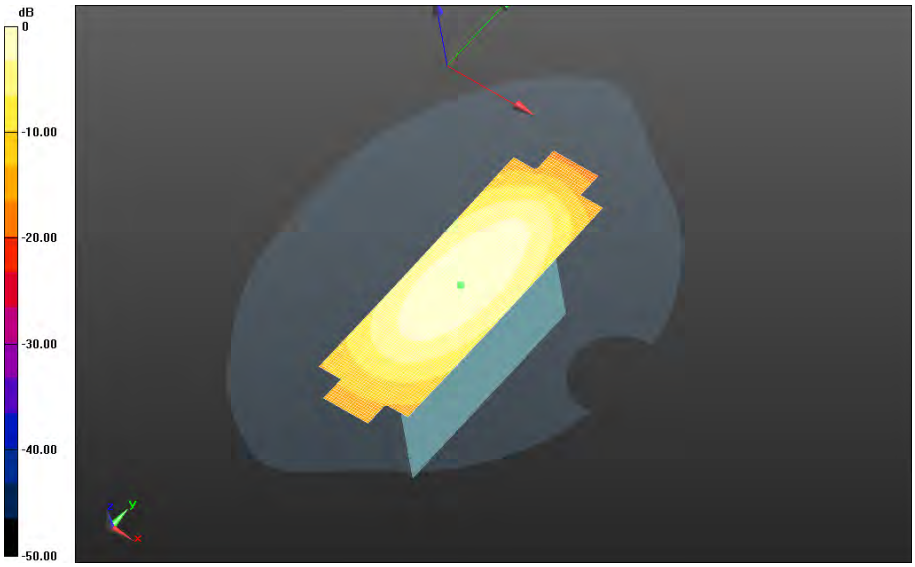
Mobile Hot Spot MSL - LTE Band 5/10mm Device Right - LTE band 5_chan20525_10MHz_BW_RB1_Offset_Low_amb_temp_23.7C_liq_temp_21.7C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 27.637 V/m; **Power Drift = -0.033 dB**

Fast SAR: SAR(1g) = 0.609 W/kg; SAR(10g) = 0.408 W/kg
Maximum value of SAR (interpolated) = 0.702 W/kg



0 dB = 0.702 W/kg = -1.54 dBW/kg

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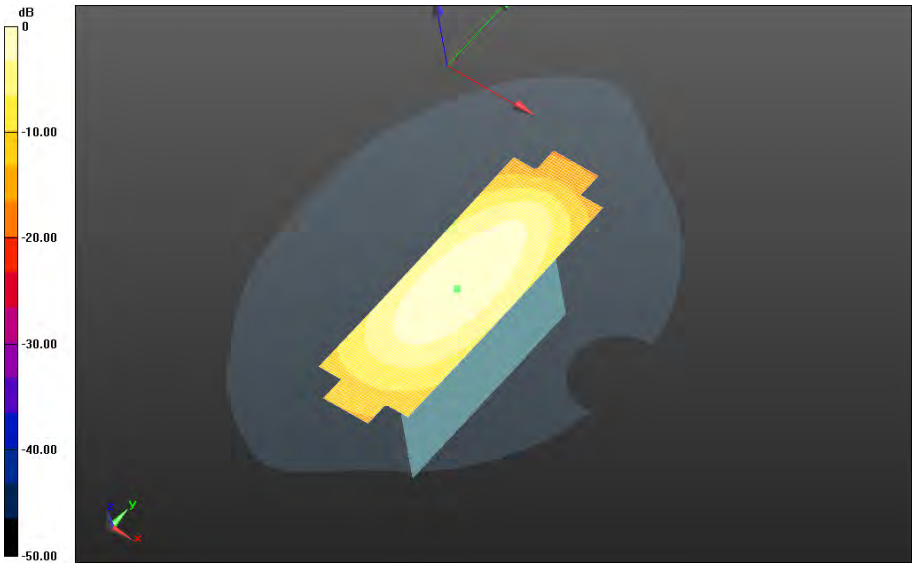
Mobile Hot Spot MSL - LTE Band 5/10mm Device Right - LTE band 5_chan20600_10MHz_BW_RB1_Offset_High_amb_temp_23.7C_liq_temp_21.7C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 24.287 V/m; **Power Drift = -0.00558 dB**

Fast SAR: SAR(1g) = 0.472 W/kg; SAR(10g) = 0.315 W/kg
Maximum value of SAR (interpolated) = 0.545 W/kg



0 dB = 0.545 W/kg = -2.64 dBW/kg

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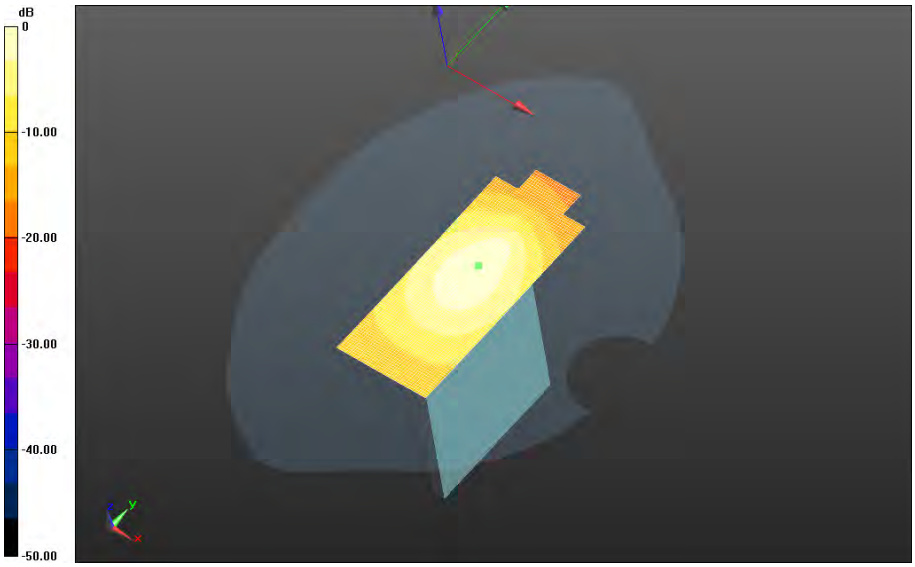
Mobile Hot Spot MSL - LTE Band 5/10mm Device Bottom - LTE band 5_chan20450_10MHz_BW_RB1_Offset_High_amb_temp_23.3C_liq_temp_21.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 17.930 V/m; **Power Drift = 0.00677 dB**

Fast SAR: SAR(1g) = 0.282 W/kg; SAR(10g) = 0.177 W/kg
Maximum value of SAR (interpolated) = 0.339 W/kg



0 dB = 0.339 W/kg = -4.70 dBW/kg

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GSM 850

Date: 11/18/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFEDD03

Configuration: Mobile Hot Spot MSL - GPRS 850

Communication System: GPRS 850 (3 slots) (0); Communication System Band: GPRS 850 (3 slots); Frequency: 824.2 MHz
Medium Parameters used: f=825 MHz; σ = 0.955 S/m; ε_r = 53.108; 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 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS850_3-slots_chan128_amb_temp_23.4C_liq_temp_21.5C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 25.972 V/m; **Power Drift = 0.096 dB**

Fast SAR: SAR(1g) = 0.767 W/kg; SAR(10g) = 0.515 W/kg
Maximum value of SAR (interpolated) = 0.901 W/kg

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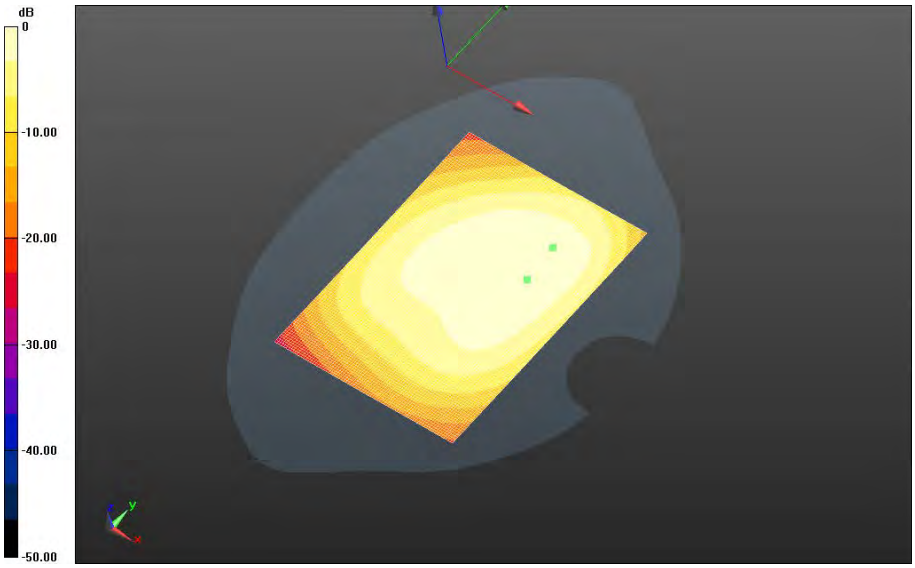

0 dB = 0.901 W/kg = -0.45 dBW/kg

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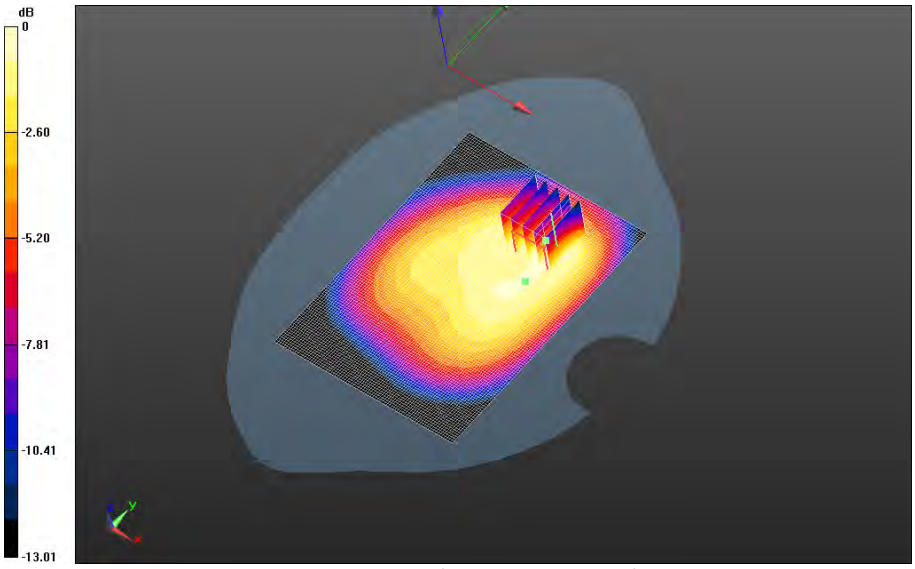
Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS850_3-slots_chan190_amb_temp_23.5C_liq_temp_21.5C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 25.700 V/m; **Power Drift = -0.017 dB**

Fast SAR: SAR(1g) = 0.770 W/kg; SAR(10g) = 0.512 W/kg; Secondary SAR(1g) = 0.652 W/kg
Maximum value of SAR (interpolated) = 0.916 W/kg

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS850_3-slots_chan190_amb_temp_23.5C_liq_temp_21.5C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 25.700 V/m; **Power Drift = -0.017 dB**

Averaged SAR: SAR(1g) = 0.764 W/kg; SAR(10g) = 0.512 W/kg
Maximum value of SAR (interpolated) = 1.14 W/kg



0 dB = 0.878 W/kg = -0.57 dBW/kg

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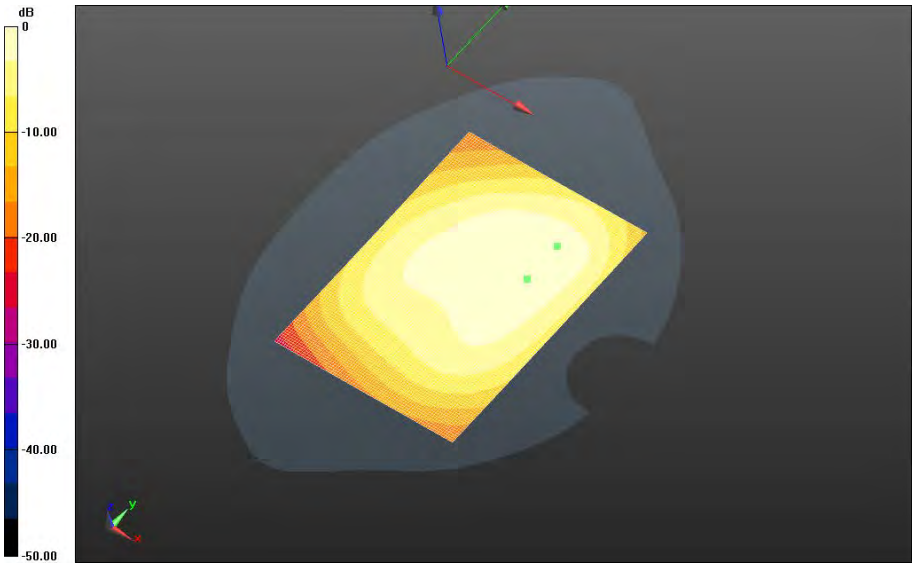
Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS850_3-slots_chan251_amb_temp_23.4C_liq_temp_21.5C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 23.476 V/m; **Power Drift = -0.031 dB**

Fast SAR: SAR(1g) = 0.692 W/kg; SAR(10g) = 0.454 W/kg; Secondary SAR(1g) = 0.652 W/kg
Maximum value of SAR (interpolated) = 0.829 W/kg



0 dB = 0.829 W/kg = -0.81 dBW/kg

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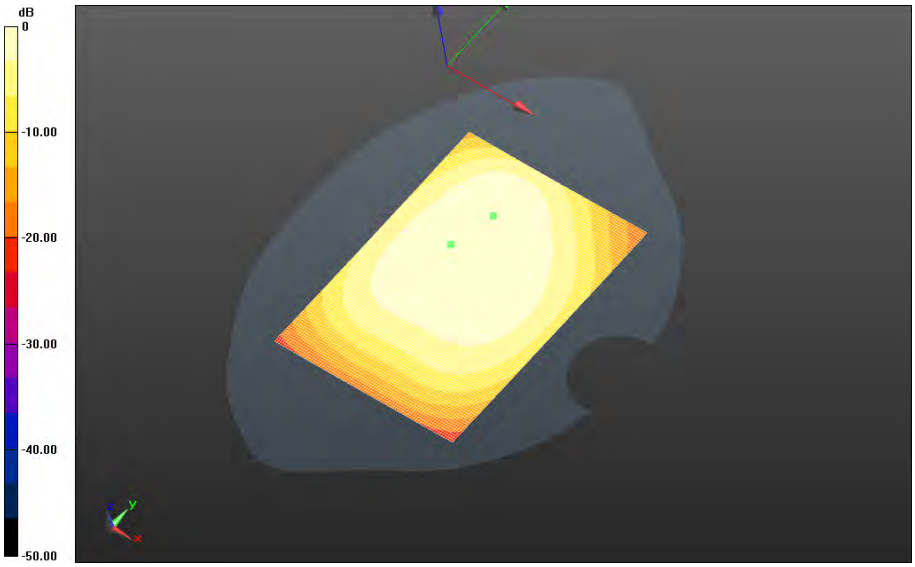
Mobile Hot Spot MSL - GPRS 850/10mm Device Front - GPRS850_3-slots_chan190_amb_temp_23.6C_liq_temp_21.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 25.904 V/m; **Power Drift = 0.019 dB**

Fast SAR: SAR(1g) = 0.623 W/kg; SAR(10g) = 0.443 W/kg; Secondary SAR(1g) = 0.652 W/kg
Maximum value of SAR (interpolated) = 0.702 W/kg



0 dB = 0.702 W/kg = -1.54 dBW/kg

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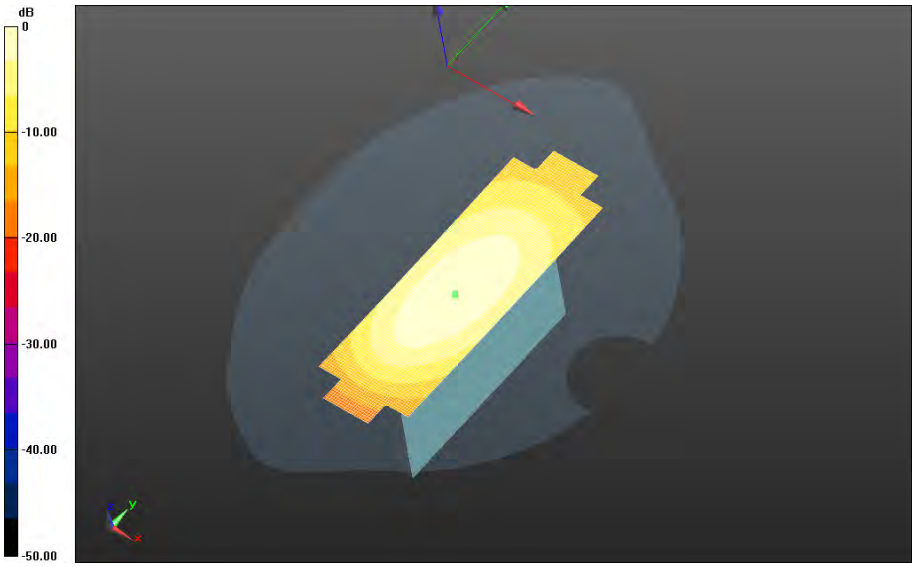
Mobile Hot Spot MSL - GPRS 850/10mm Device Left - GPRS850_3-slots_chan190_amb_temp_23.3C_liq_temp_21.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 24.449 V/m; **Power Drift = -0.071 dB**

Fast SAR: SAR(1g) = 0.471 W/kg; SAR(10g) = 0.315 W/kg; Secondary SAR(1g) = 0.652 W/kg
Maximum value of SAR (interpolated) = 0.543 W/kg



0 dB = 0.543 W/kg = -2.65 dBW/kg

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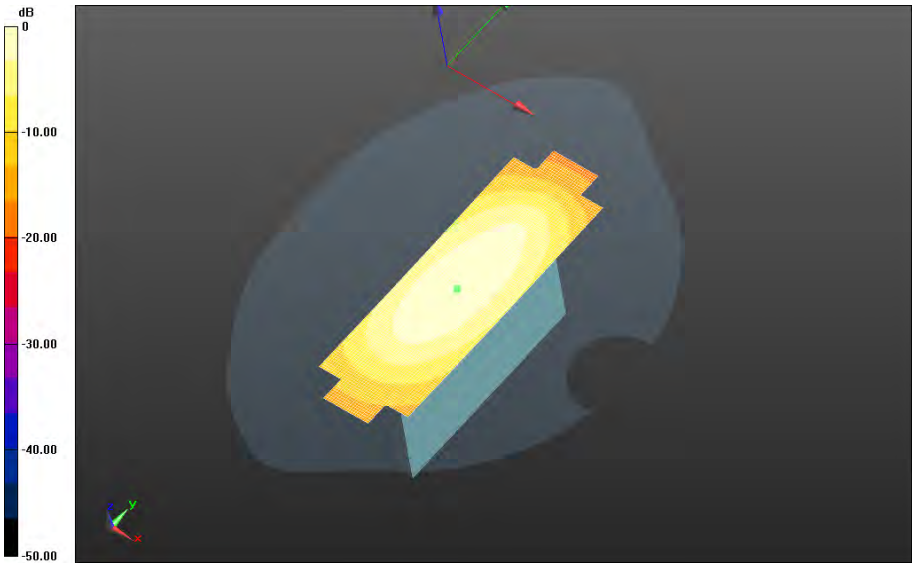
Mobile Hot Spot MSL - GPRS 850/10mm Device Right - GPRS850_3-slots_chan190_amb_temp_23.1C_liq_temp_21.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 30.802 V/m; **Power Drift = -0.052 dB**

Fast SAR: SAR(1g) = 0.749 W/kg; SAR(10g) = 0.500 W/kg; Secondary SAR(1g) = 0.652 W/kg
Maximum value of SAR (interpolated) = 0.863 W/kg



0 dB = 0.863 W/kg = -0.64 dBW/kg

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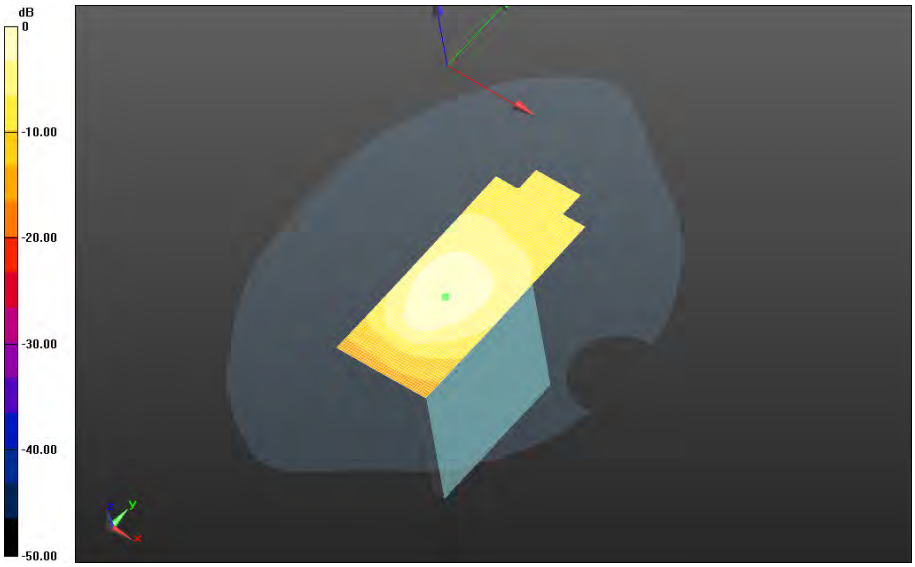
Mobile Hot Spot MSL - GPRS 850/10mm Device Bottom - GPRS850_3-slots_chan190_amb_temp_23.3C_liq_temp_21.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 17.312 V/m; **Power Drift = -0.026 dB**

Fast SAR: SAR(1g) = 0.270 W/kg; SAR(10g) = 0.174 W/kg; Secondary SAR(1g) = 0.652 W/kg
Maximum value of SAR (interpolated) = 0.317 W/kg



0 dB = 0.317 W/kg = -4.99 dBW/kg

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UMTS Band V

Date: 11/17/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFEDD1D

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 = 0.957 S/m; ε_r = 53.099; 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 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Mobile Hot Spot MSL - UMTS Band V/10mm Device Back - UMTS band V_chan4132_amb_temp_23.5C_liq_temp_21.7C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 25.887 V/m; **Power Drift = 0.00459 dB**

Fast SAR: SAR(1g) = 0.695 W/kg; SAR(10g) = 0.483 W/kg; Secondary SAR(1g) = 0.695 W/kg
Maximum value of SAR (interpolated) = 0.797 W/kg

Mobile Hot Spot MSL - UMTS Band V/10mm Device Back - UMTS band V_chan4132_amb_temp_23.5C_liq_temp_21.7C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 25.887 V/m; **Power Drift = 0.00459 dB**

Averaged SAR: SAR(1g) = 0.709 W/kg; SAR(10g) = 0.526 W/kg
Maximum value of SAR (interpolated) = 0.934 W/kg

Mobile Hot Spot MSL - UMTS Band V/10mm Device Back - UMTS band V_chan4132_amb_temp_23.5C_liq_temp_21.7C/Zoom Scan 2 (26x36x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 25.887 V/m; **Power Drift = -0.026 dB**

Averaged SAR: SAR(1g) = 0.709 W/kg; SAR(10g) = 0.524 W/kg
Maximum value of SAR (interpolated) = 0.996 W/kg

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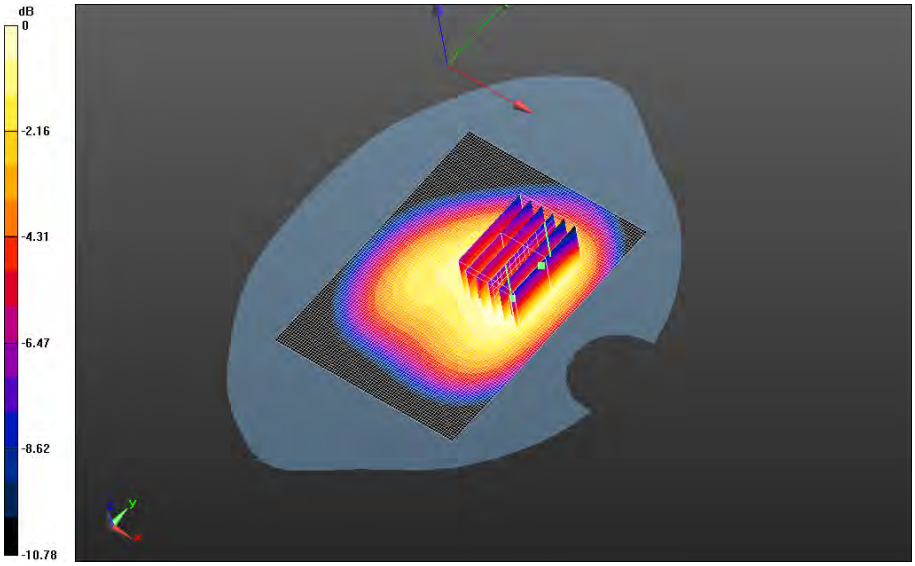

0 dB = 0.793 W/kg = -1.01 dBW/kg

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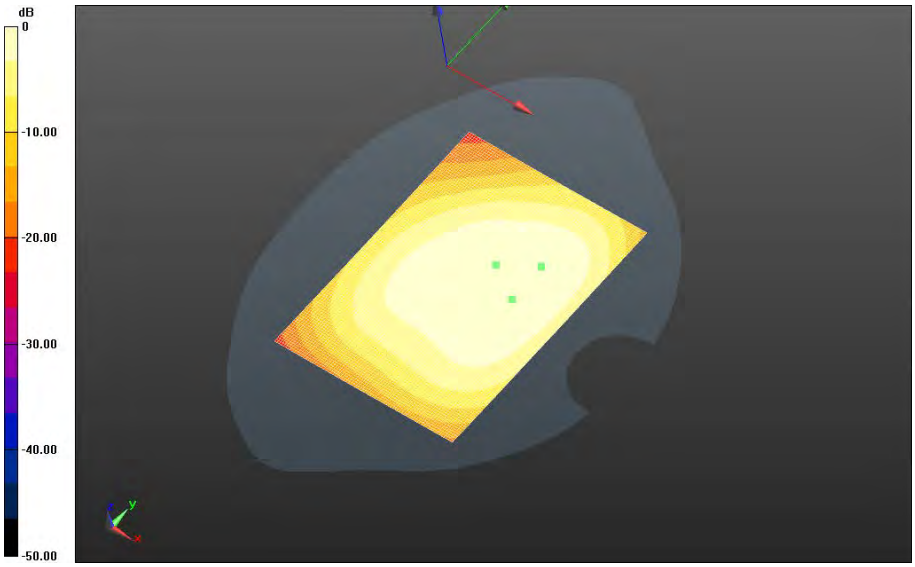
Mobile Hot Spot MSL - UMTS Band V/10mm Device Back - UMTS band V_chan4182_amb_temp_23.7C_liq_temp_21.8C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 25.523 V/m; **Power Drift = -0.157 dB**

Fast SAR: SAR(1g) = 0.660 W/kg; SAR(10g) = 0.458 W/kg; Secondary SAR(1g) = 0.652 W/kg
Maximum value of SAR (interpolated) = 0.758 W/kg



0 dB = 0.758 W/kg = -1.20 dBW/kg

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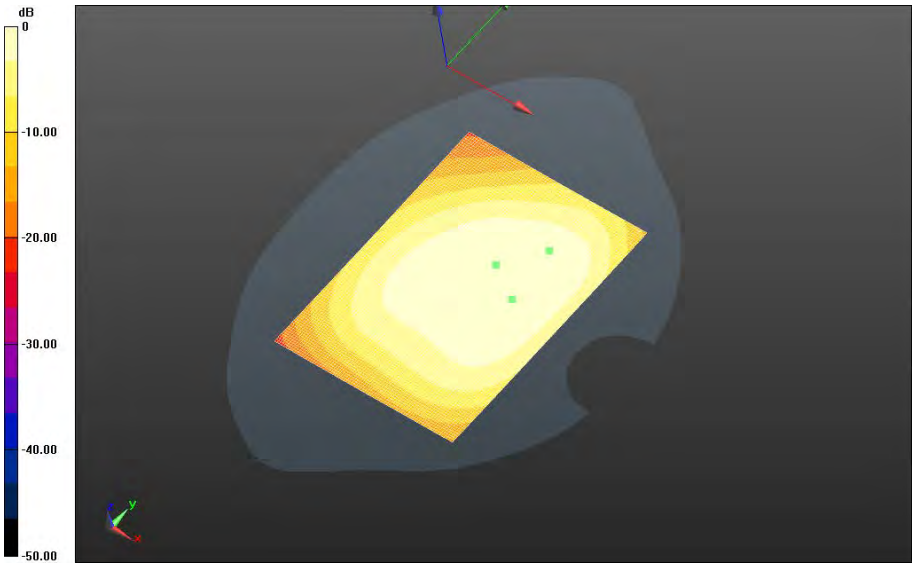
Mobile Hot Spot MSL - UMTS Band V/10mm Device Back - UMTS band V_chan4233_amb_temp_23.4C_liq_temp_21.7C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 23.973 V/m; **Power Drift = 0.170 dB**

Fast SAR: SAR(1g) = 0.603 W/kg; SAR(10g) = 0.418 W/kg; Secondary SAR(1g) = 0.601 W/kg
Maximum value of SAR (interpolated) = 0.690 W/kg



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

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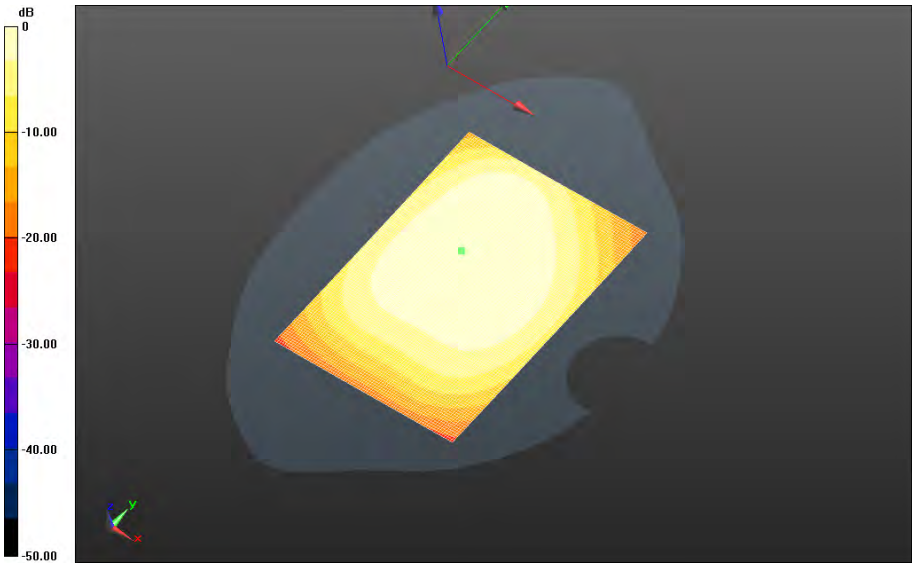
Mobile Hot Spot MSL - UMTS Band V/10mm Device Front - UMTS band V_chan4182_amb_temp_23.4C_liq_temp_21.8C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 25.405 V/m; **Power Drift = -0.143 dB**

Fast SAR: SAR(1g) = 0.570 W/kg; SAR(10g) = 0.405 W/kg; Secondary SAR(1g) = 0.601 W/kg
Maximum value of SAR (interpolated) = 0.642 W/kg



0 dB = 0.642 W/kg = -1.92 dBW/kg

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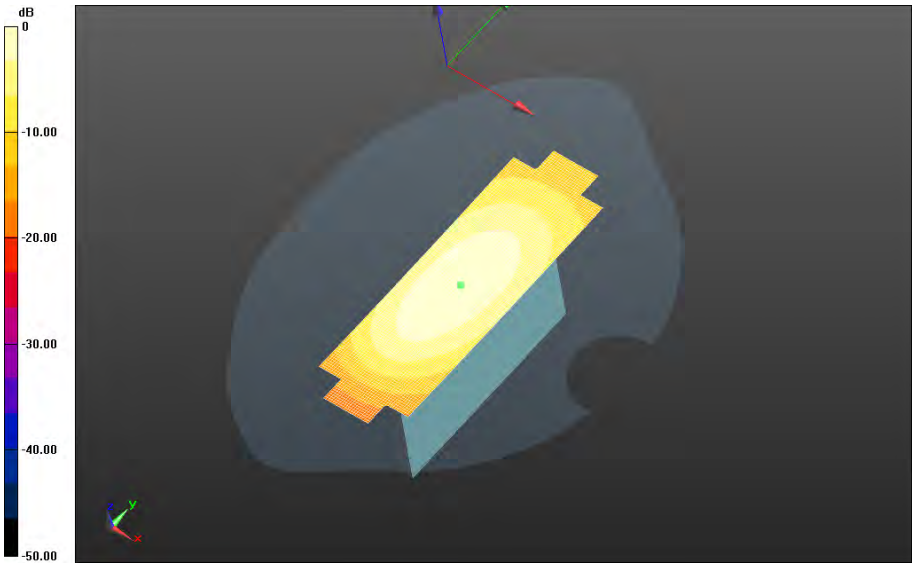
Mobile Hot Spot MSL - UMTS Band V/10mm Device Left - UMTS band V_chan4182_amb_temp_23.4C_liq_temp_21.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 24.632 V/m; **Power Drift = 0.017 dB**

Fast SAR: SAR(1g) = 0.487 W/kg; SAR(10g) = 0.326 W/kg; Secondary SAR(1g) = 0.601 W/kg
Maximum value of SAR (interpolated) = 0.561 W/kg



0 dB = 0.561 W/kg = -2.51 dBW/kg

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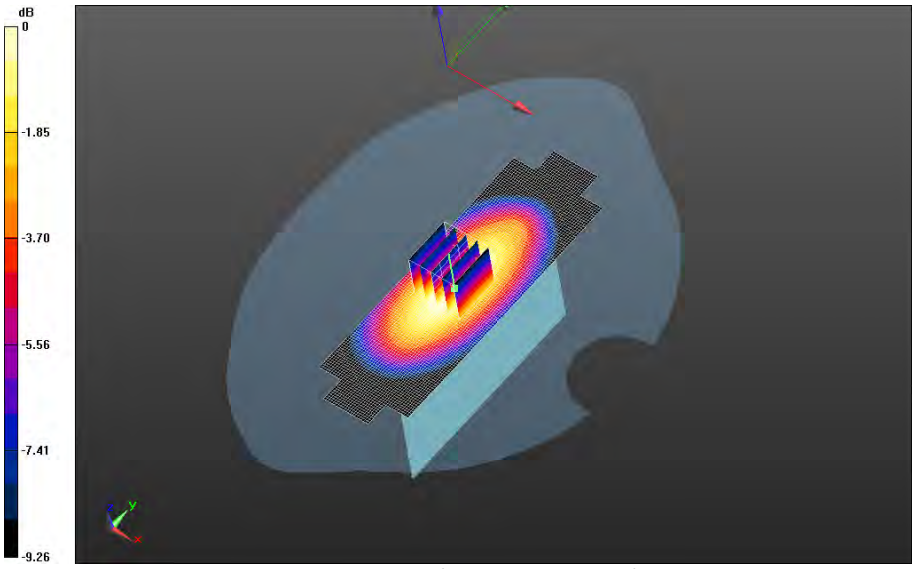
Mobile Hot Spot MSL - UMTS Band V/10mm Device Right - UMTS band V_chan4132_amb_temp_23.7C_liq_temp_21.7C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 32.692 V/m; **Power Drift = 0.021 dB**

Fast SAR: SAR(1g) = 0.860 W/kg; SAR(10g) = 0.577 W/kg; Secondary SAR(1g) = 0.601 W/kg
Maximum value of SAR (interpolated) = 0.989 W/kg

Mobile Hot Spot MSL - UMTS Band V/10mm Device Right - UMTS band V_chan4132_amb_temp_23.7C_liq_temp_21.7C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 32.692 V/m; **Power Drift = 0.021 dB**

Averaged SAR: SAR(1g) = 0.860 W/kg; SAR(10g) = 0.590 W/kg
Maximum value of SAR (interpolated) = 1.23 W/kg



0 dB = 0.987 W/kg = -0.06 dBW/kg

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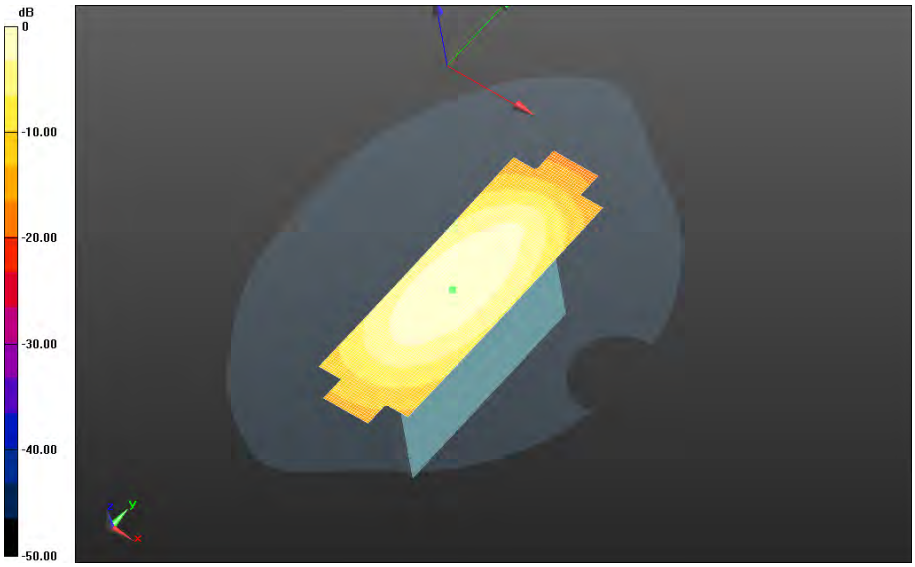
Mobile Hot Spot MSL - UMTS Band V/10mm Device Right - UMTS band V_chan4182_amb_temp_23.6C_liq_temp_21.7C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 30.634 V/m; **Power Drift = -0.000634 dB**

Fast SAR: SAR(1g) = 0.754 W/kg; SAR(10g) = 0.506 W/kg; Secondary SAR(1g) = 0.601 W/kg
Maximum value of SAR (interpolated) = 0.867 W/kg



0 dB = 0.867 W/kg = -0.62 dBW/kg

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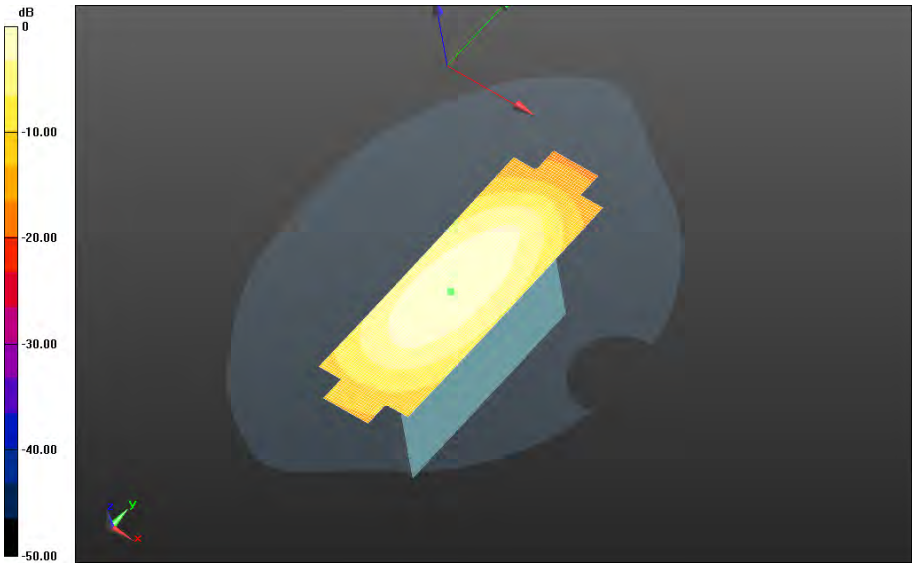
Mobile Hot Spot MSL - UMTS Band V/10mm Device Right - UMTS band V_chan4233_amb_temp_23.7C_liq_temp_21.7C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 28.325 V/m; **Power Drift = 0.093 dB**

Fast SAR: SAR(1g) = 0.675 W/kg; SAR(10g) = 0.451 W/kg; Secondary SAR(1g) = 0.601 W/kg
Maximum value of SAR (interpolated) = 0.778 W/kg



0 dB = 0.778 W/kg = -1.09 dBW/kg

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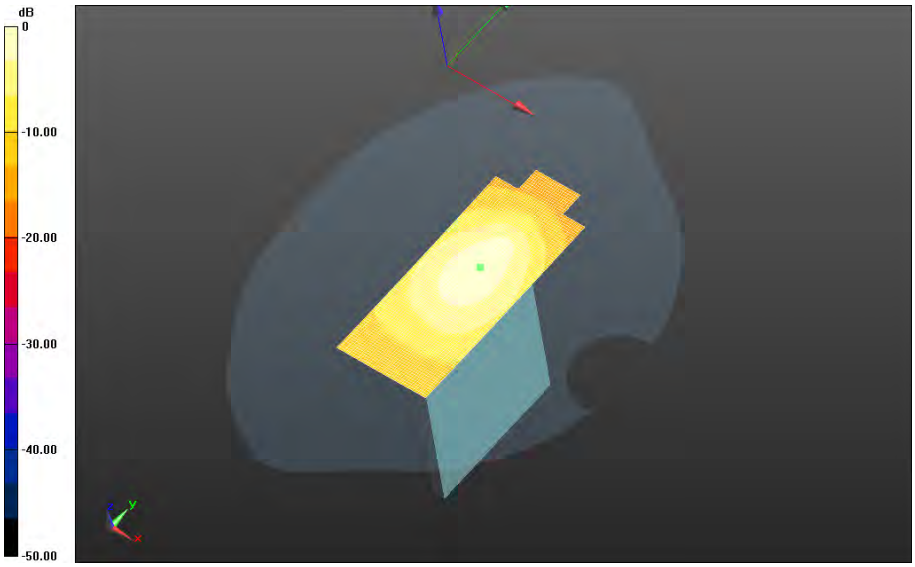
Mobile Hot Spot MSL - UMTS Band V/10mm Device Bottom - UMTS band V_chan4182_amb_temp_23.4C_liq_temp_21.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 18.566 V/m; **Power Drift = 0.088 dB**

Fast SAR: SAR(1g) = 0.327 W/kg; SAR(10g) = 0.202 W/kg; Secondary SAR(1g) = 0.601 W/kg
Maximum value of SAR (interpolated) = 0.394 W/kg



0 dB = 0.394 W/kg = -4.05 dBW/kg

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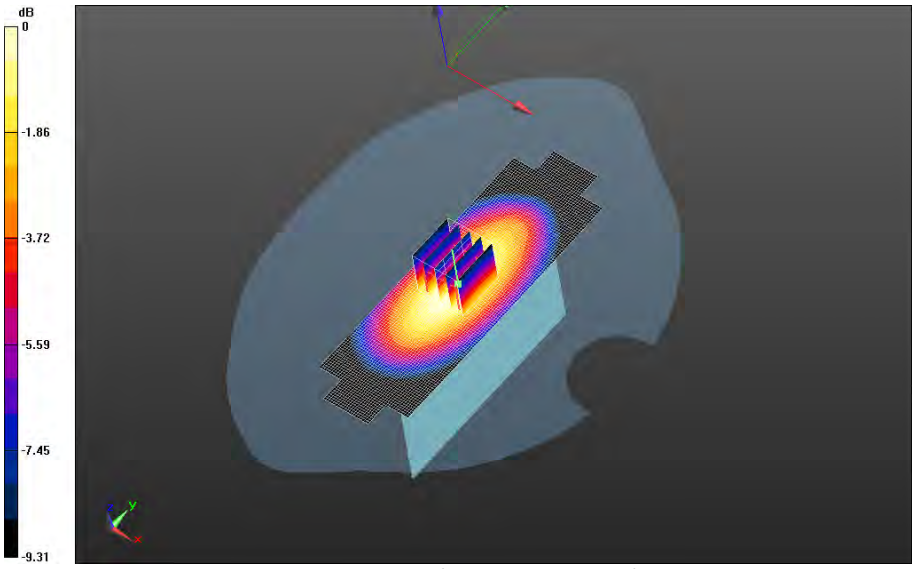
Mobile Hot Spot MSL - UMTS Band V/2nd Scan 10mm Device Right - UMTS band V_chan4132_amb_temp_23.4C_liq_temp_21.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 32.635 V/m; **Power Drift = 0.011 dB**

Fast SAR: SAR(1g) = 0.851 W/kg; SAR(10g) = 0.571 W/kg; Secondary SAR(1g) = 0.601 W/kg
Maximum value of SAR (interpolated) = 0.979 W/kg

Mobile Hot Spot MSL - UMTS Band V/2nd Scan 10mm Device Right - UMTS band V_chan4132_amb_temp_23.4C_liq_temp_21.6C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 32.635 V/m; **Power Drift = 0.011 dB**

Averaged SAR: SAR(1g) = 0.850 W/kg; SAR(10g) = 0.585 W/kg
Maximum value of SAR (interpolated) = 1.20 W/kg



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

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LTE Band 4

Date: 11/13/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFEDD03

Configuration: Mobile Hot Spot MSL - LTE Band 4

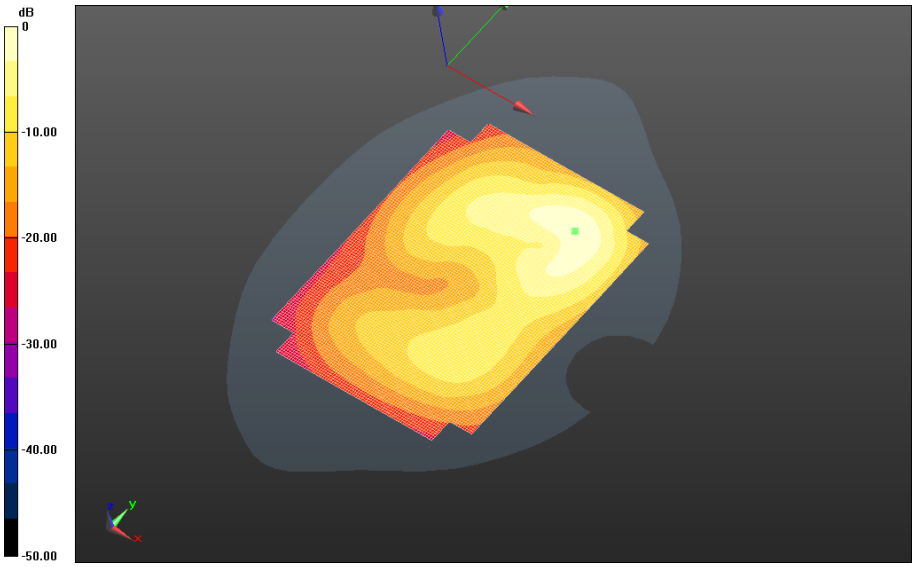
Communication System: LTE 4 (0); Communication System Band: LTE 4; Frequency: 1720 MHz
Medium Parameters used: f=1720 MHz; σ = 1.505 S/m; ε_r = 50.864; ρ = 1.000 g/cm^3
Phantom section: Flat Section

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

Mobile Hot Spot MSL - LTE Band 4/10mm Device Back - LTE band 4_chan20050_20MHz_BW_RB1_Offset_High_amb_temp_23.7C_liq_temp_21.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.072 V/m; **Power Drift = 0.059 dB**

Fast SAR: SAR(1g) = 0.996 W/kg; SAR(10g) = 0.547 W/kg
Maximum value of SAR (interpolated) = 1.29 W/kg



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0 dB = 1.29 W/kg = 1.11 dBW/kg

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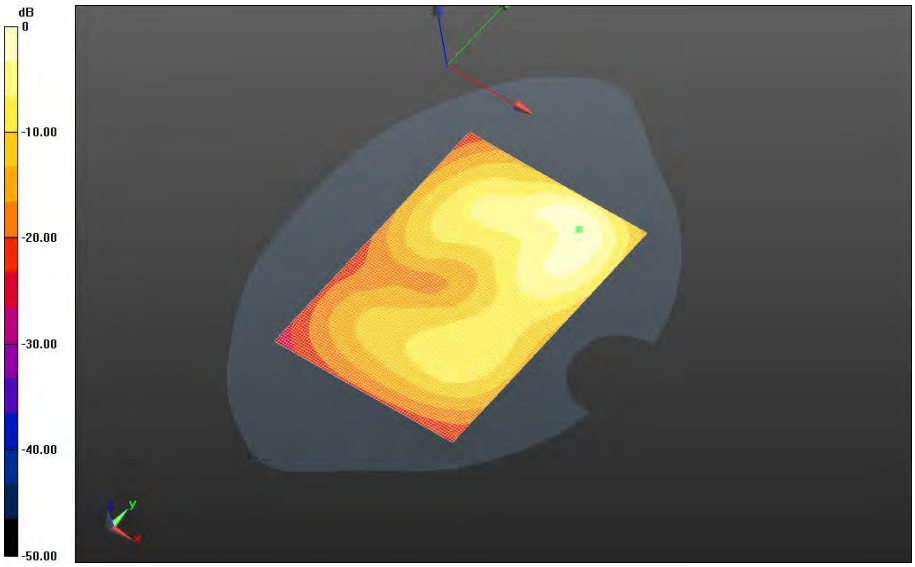
Mobile Hot Spot MSL - LTE Band 4/10mm Device Back - LTE band 4_chan20175_20MHz_BW_RB1_Offset_High_amb_temp_23.7C_liq_temp_21.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.339 V/m; **Power Drift = 0.028 dB**

Fast SAR: SAR(1g) = 1.08 W/kg; SAR(10g) = 0.579 W/kg
Maximum value of SAR (interpolated) = 1.41 W/kg



0 dB = 1.41 W/kg = 1.49 dBW/kg

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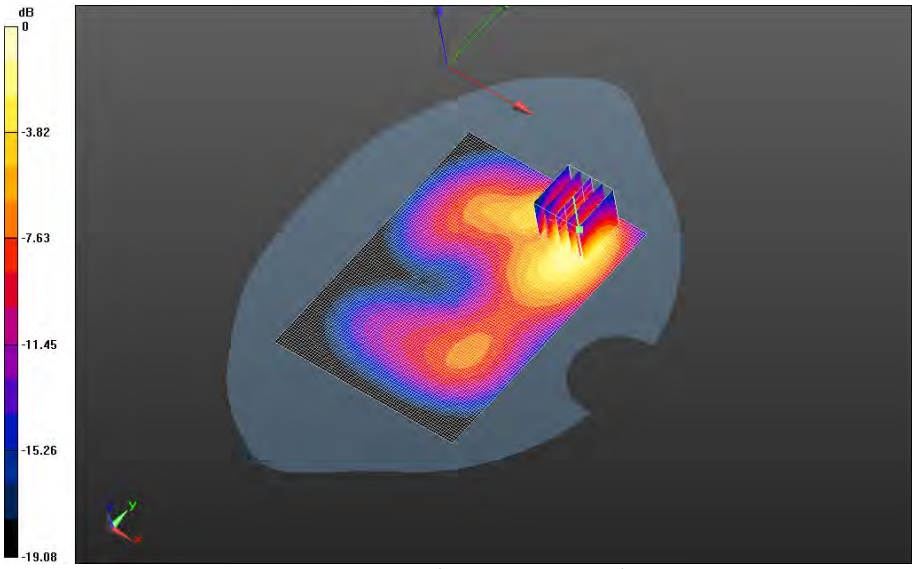
Mobile Hot Spot MSL - LTE Band 4/10mm Device Back - LTE band 4_chan20300_20MHz_BW_RB1_Offset_High_amb_temp_23.7C_liq_temp_21.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.730 V/m; **Power Drift = -0.038 dB**

Fast SAR: SAR(1g) = 1.13 W/kg; SAR(10g) = 0.607 W/kg
Maximum value of SAR (interpolated) = 1.47 W/kg

Mobile Hot Spot MSL - LTE Band 4/10mm Device Back - LTE band 4_chan20300_20MHz_BW_RB1_Offset_High_amb_temp_23.7C_liq_temp_21.6C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 5.730 V/m; **Power Drift = -0.038 dB**

Averaged SAR: SAR(1g) = 1.20 W/kg; SAR(10g) = 0.660 W/kg
Maximum value of SAR (interpolated) = 1.99 W/kg



0 dB = 1.49 W/kg = 1.73 dBW/kg

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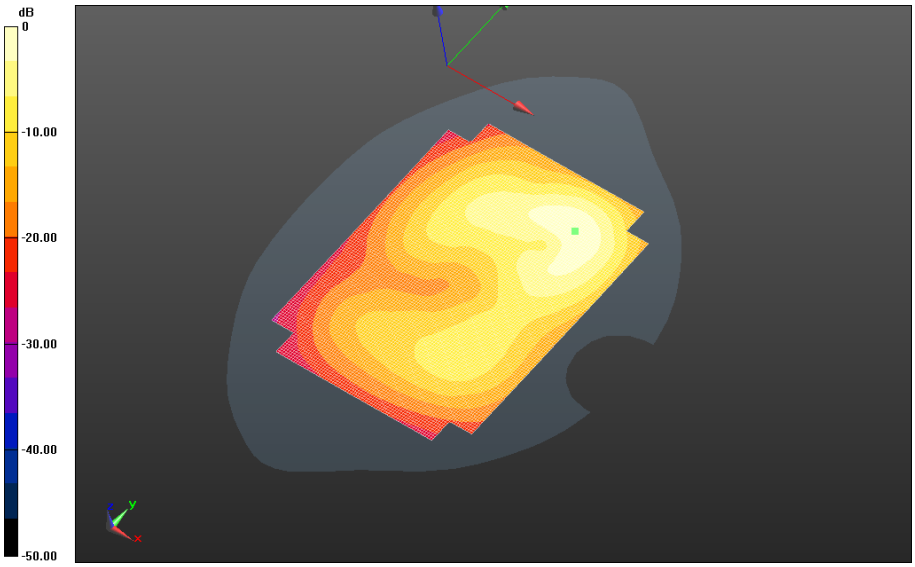
Mobile Hot Spot MSL - LTE Band 4/10mm Device Back - LTE band 4_chan20050_20MHz_BW_RB50_Offset_High_amb_temp_23.5C_liq_temp_21.5C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.025 V/m; **Power Drift = -0.00202 dB**

Fast SAR: SAR(1g) = 1.02 W/kg; SAR(10g) = 0.557 W/kg
Maximum value of SAR (interpolated) = 1.32 W/kg



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

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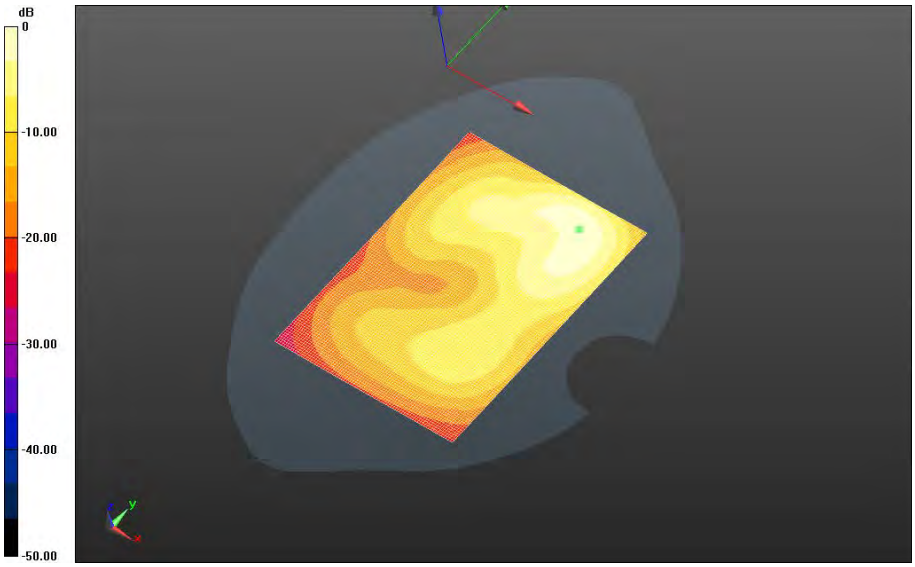
Mobile Hot Spot MSL - LTE Band 4/10mm Device Back - LTE band 4_chan20175_20MHz_BW_RB50_Offset_High_amb_temp_23.5C_liq_temp_21.5C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.265 V/m; **Power Drift = 0.016 dB**

Fast SAR: SAR(1g) = 1.05 W/kg; SAR(10g) = 0.565 W/kg
Maximum value of SAR (interpolated) = 1.37 W/kg



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

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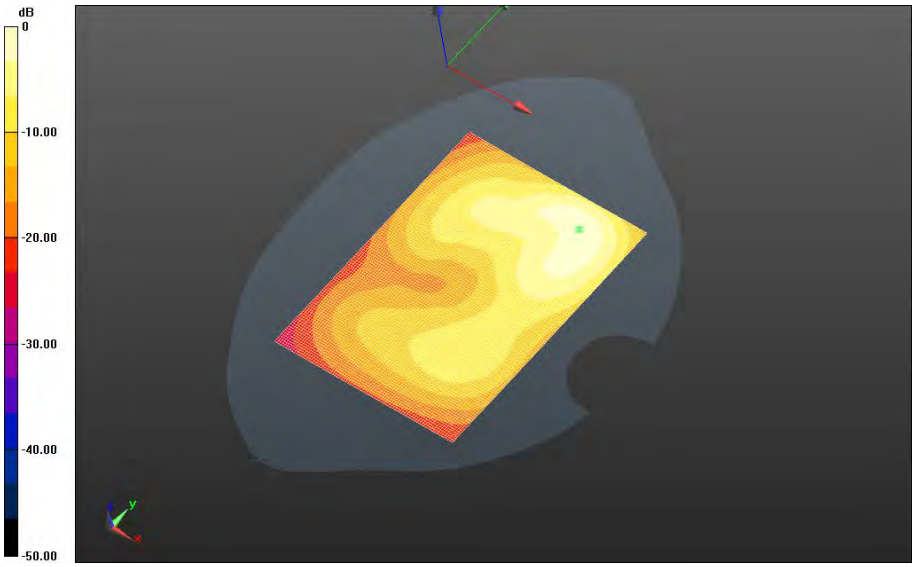
Mobile Hot Spot MSL - LTE Band 4/10mm Device Back - LTE band 4_chan20300_20MHz_BW_RB50_Offset_Low_amb_temp_23.5C_liq_temp_21.5C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.364 V/m; **Power Drift = -0.00205 dB**

Fast SAR: SAR(1g) = 1.08 W/kg; SAR(10g) = 0.581 W/kg
Maximum value of SAR (interpolated) = 1.41 W/kg



0 dB = 1.41 W/kg = 1.49 dBW/kg

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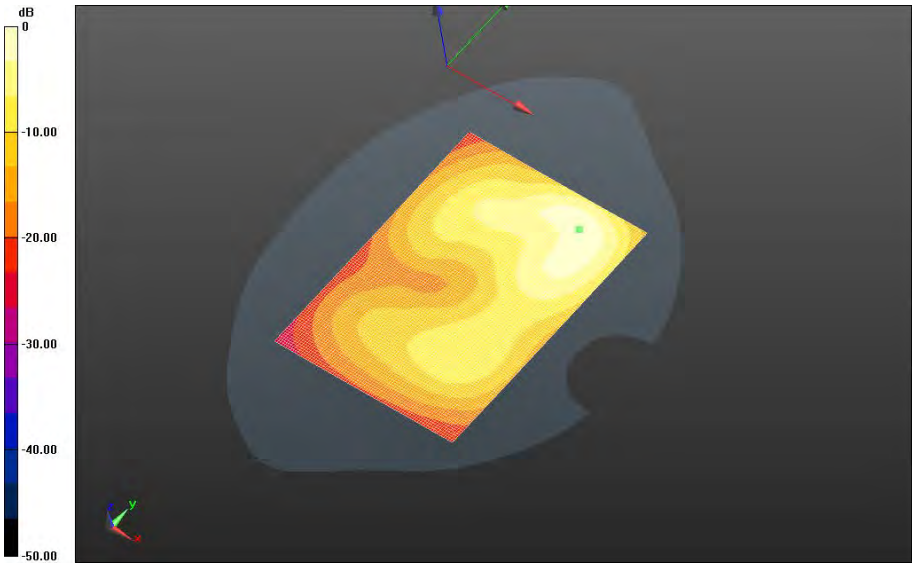
Mobile Hot Spot MSL - LTE Band 4/10mm Device Back - LTE band 4_chan20300_20MHz_BW_RB100_Offset_Low_amb_temp_23.5C_liq_temp_21.4C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.429 V/m; **Power Drift = 0.074 dB**

Fast SAR: SAR(1g) = 1.09 W/kg; SAR(10g) = 0.585 W/kg
Maximum value of SAR (interpolated) = 1.43 W/kg



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

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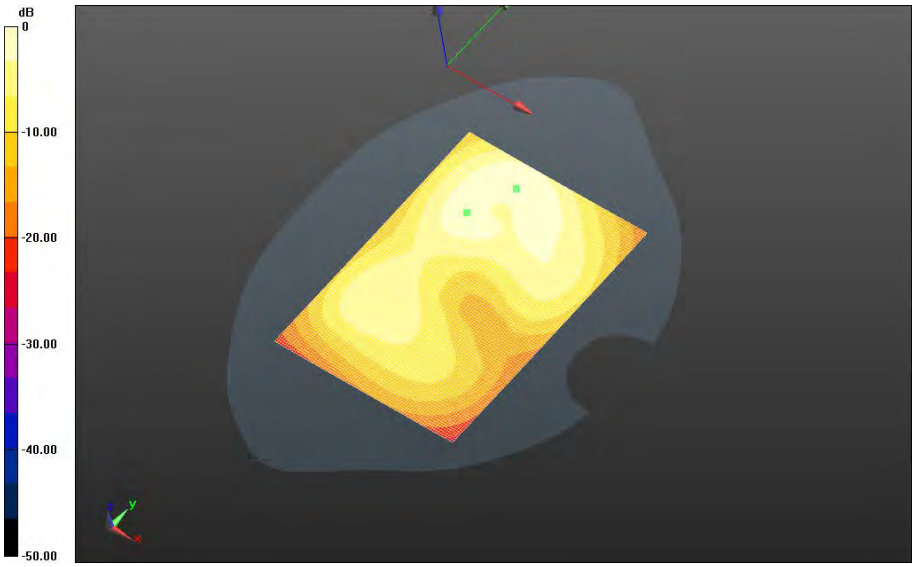
Mobile Hot Spot MSL - LTE Band 4/10mm Device Front - LTE band 4_chan20300_20MHz_BW_RB1_Offset_High_amb_temp_23.5C_liq_temp_21.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.090 V/m; **Power Drift = 0.081 dB**

Fast SAR: SAR(1g) = 0.546 W/kg; SAR(10g) = 0.317 W/kg
Maximum value of SAR (interpolated) = 0.679 W/kg



0 dB = 0.679 W/kg = -1.68 dBW/kg

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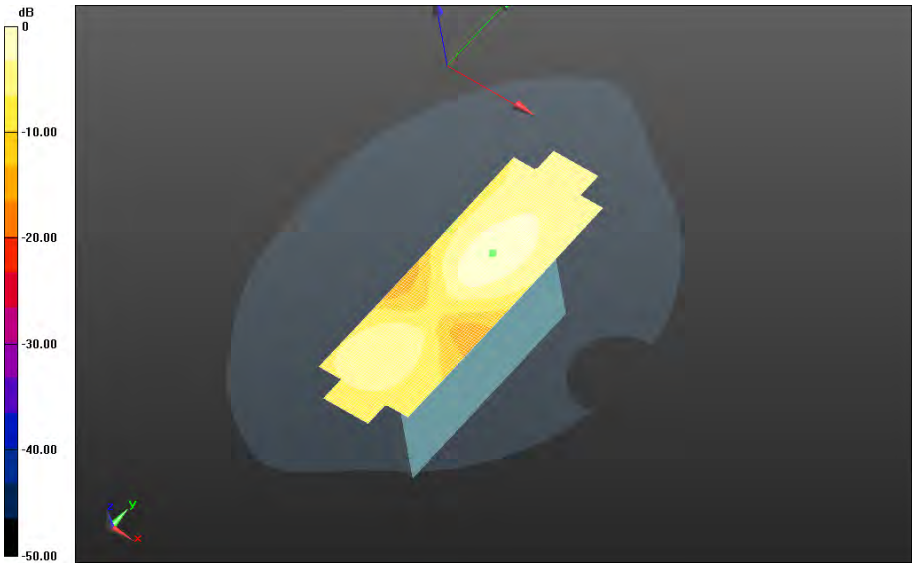
Mobile Hot Spot MSL - LTE Band 4/10mm Device Left - LTE band 4_chan20175_20MHz_BW_RB1_Offset_High_amb_temp_23.6C_liq_temp_21.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.033 V/m; **Power Drift = -0.00395 dB**

Fast SAR: SAR(1g) = 0.0599 W/kg; SAR(10g) = 0.0340 W/kg
Maximum value of SAR (interpolated) = 0.0739 W/kg



0 dB = 0.0739 W/kg = -11.31 dBW/kg

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Mobile Hot Spot MSL - LTE Band 4/10mm Device Right - LTE band 4_chan20175_20MHz_BW_RB1_Offset_High_amb_temp_23.6C_liq_temp_21.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 14.374 V/m; **Power Drift = 0.037 dB**

Fast SAR: SAR(1g) = 0.441 W/kg; SAR(10g) = 0.249 W/kg
Maximum value of SAR (interpolated) = 0.547 W/kg

0 dB = 0.547 W/kg = -2.62 dBW/kg

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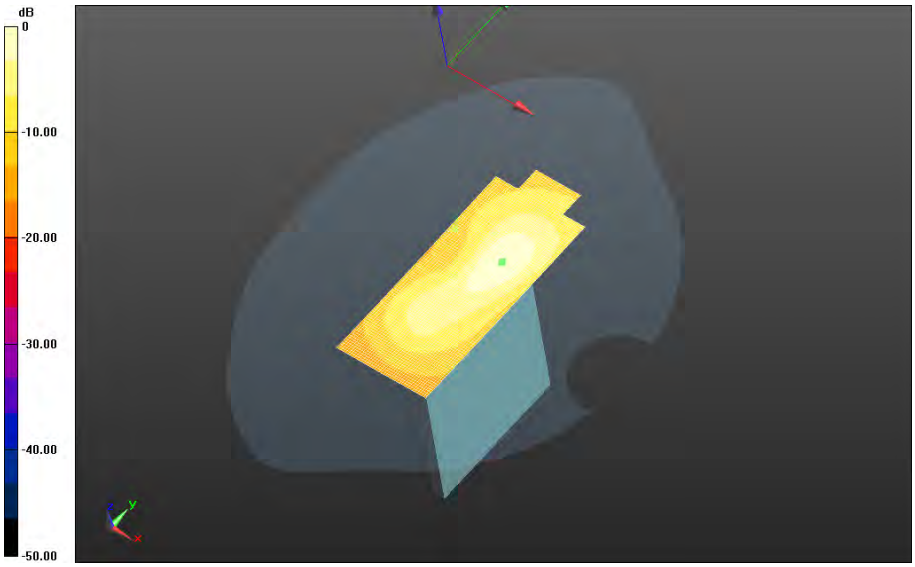
Mobile Hot Spot MSL - LTE Band 4/10mm Device Bottom - LTE band 4_chan20175_20MHz_BW_RB1_Offset_High_amb_temp_23.3C_liq_temp_21.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 14.745 V/m; **Power Drift = 0.000235 dB**

Fast SAR: SAR(1g) = 0.554 W/kg; SAR(10g) = 0.300 W/kg
Maximum value of SAR (interpolated) = 0.721 W/kg



0 dB = 0.721 W/kg = -1.42 dBW/kg

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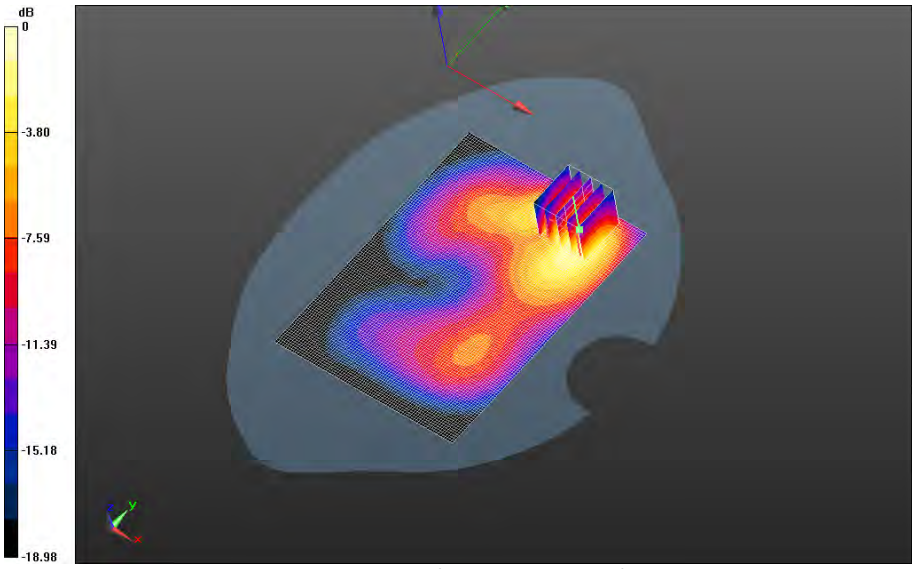
Mobile Hot Spot MSL - LTE Band 4/Headset 10mm Device Back - LTE band 4_chan20300_20MHz_BW_RB1_Offset_High_amb_temp_23.5C_liq_temp_21.4C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.822 V/m; **Power Drift = 0.014 dB**

Fast SAR: SAR(1g) = 1.14 W/kg; SAR(10g) = 0.611 W/kg
Maximum value of SAR (interpolated) = 1.50 W/kg

Mobile Hot Spot MSL - LTE Band 4/Headset 10mm Device Back - LTE band 4_chan20300_20MHz_BW_RB1_Offset_High_amb_temp_23.5C_liq_temp_21.4C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 5.822 V/m; **Power Drift = 0.014 dB**

Averaged SAR: SAR(1g) = 1.21 W/kg; SAR(10g) = 0.665 W/kg
Maximum value of SAR (interpolated) = 2.01 W/kg



0 dB = 1.49 W/kg = 1.73 dBW/kg

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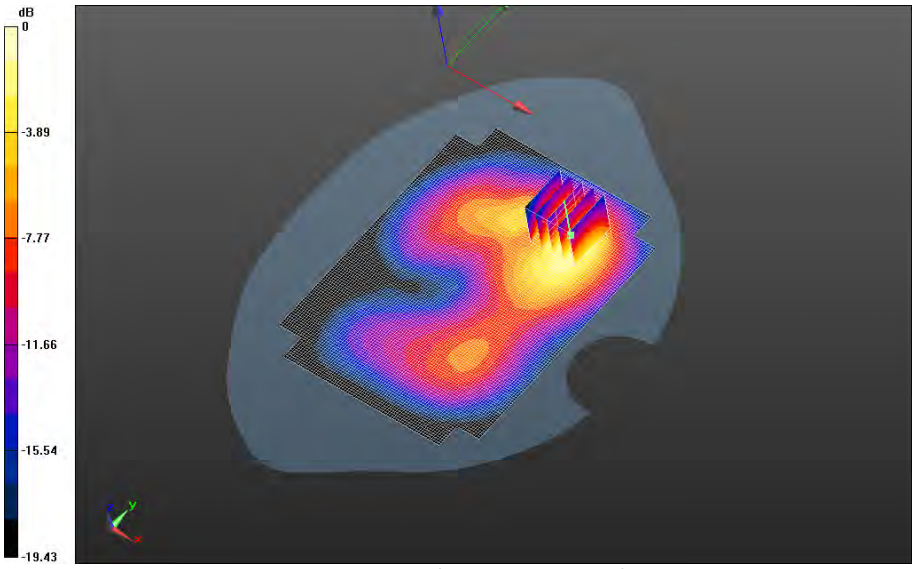
Mobile Hot Spot MSL - LTE Band 4/2nd Scan Headset 10mm Device Back - LTE band 4_chan20300_20MHz_BW_RB1_Offset_High_amb_temp_23.7C_liq_temp_21.5C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 6.140 V/m; **Power Drift = 0.111 dB**

Fast SAR: SAR(1g) = 1.20 W/kg; SAR(10g) = 0.634 W/kg
Maximum value of SAR (interpolated) = 1.58 W/kg

Mobile Hot Spot MSL - LTE Band 4/2nd Scan Headset 10mm Device Back - LTE band 4_chan20300_20MHz_BW_RB1_Offset_High_amb_temp_23.7C_liq_temp_21.5C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 6.140 V/m; **Power Drift = 0.111 dB**

Averaged SAR: SAR(1g) = 1.22 W/kg; SAR(10g) = 0.669 W/kg
Maximum value of SAR (interpolated) = 2.03 W/kg



0 dB = 1.52 W/kg = 1.82 dBW/kg

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UMTS Band IV

Date: 11/14/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFEDD03

Configuration: Mobile Hot Spot MSL - UMTS Band IV

Communication System: WCDMA FDD IV (0); Communication System Band: UMTS band IV;
Frequency: 1712.4 MHz
Medium Parameters used: f=1712.4 MHz; σ = 1.498 S/m; ε_r = 50.884; 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 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Mobile Hot Spot MSL - UMTS Band IV/10mm Device Back - UMTS band IV_chan1312_amb_temp_23.4C_liq_temp_21.4C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 4.033 V/m; **Power Drift = 0.190 dB**

Fast SAR: SAR(1g) = 0.891 W/kg; SAR(10g) = 0.472 W/kg
Maximum value of SAR (interpolated) = 1.21 W/kg

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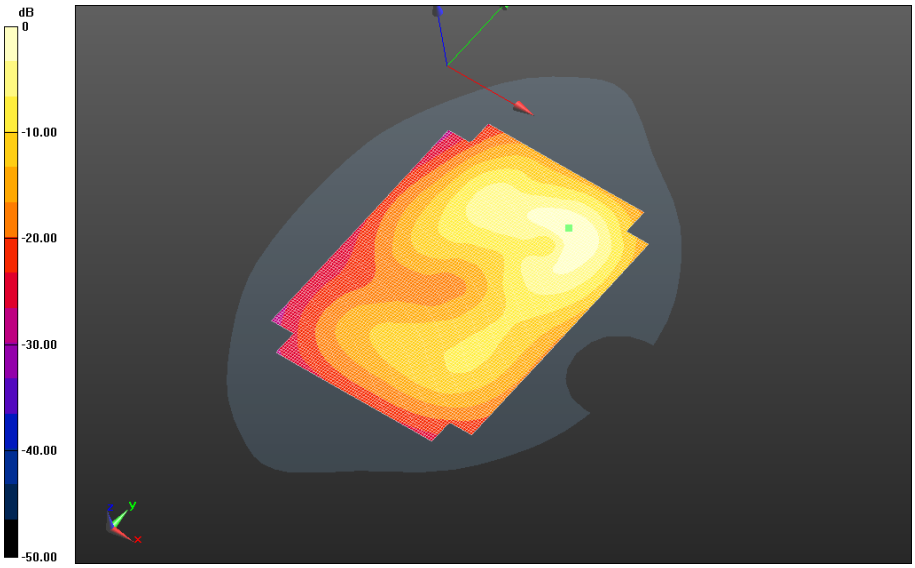

0 dB = 1.21 W/kg = 0.83 dBW/kg

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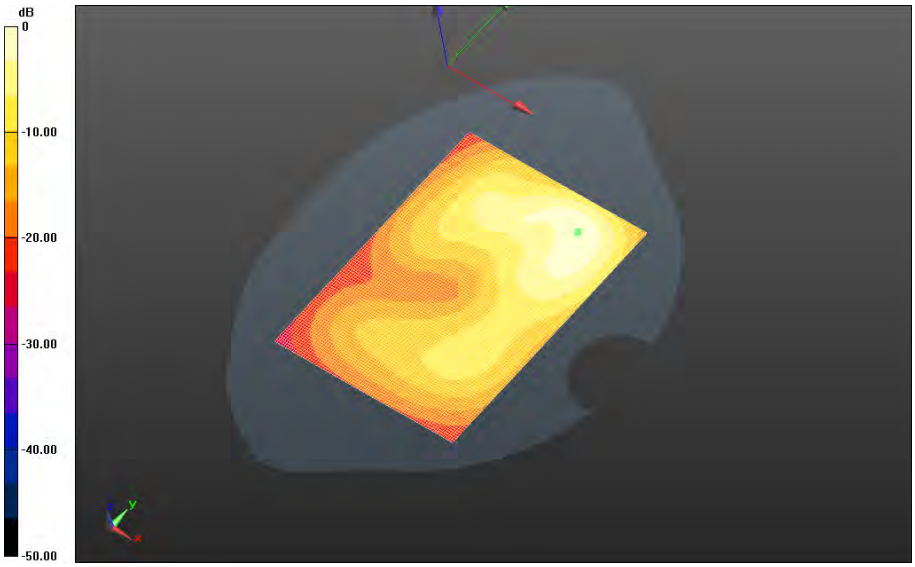
Mobile Hot Spot MSL - UMTS Band IV/10mm Device Back - UMTS band IV_chan1413_amb_temp_23.4C_liq_temp_21.4C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 4.561 V/m; **Power Drift = 0.037 dB**

Fast SAR: SAR(1g) = 0.949 W/kg; SAR(10g) = 0.517 W/kg
Maximum value of SAR (interpolated) = 1.25 W/kg



0 dB = 1.25 W/kg = 0.97 dBW/kg

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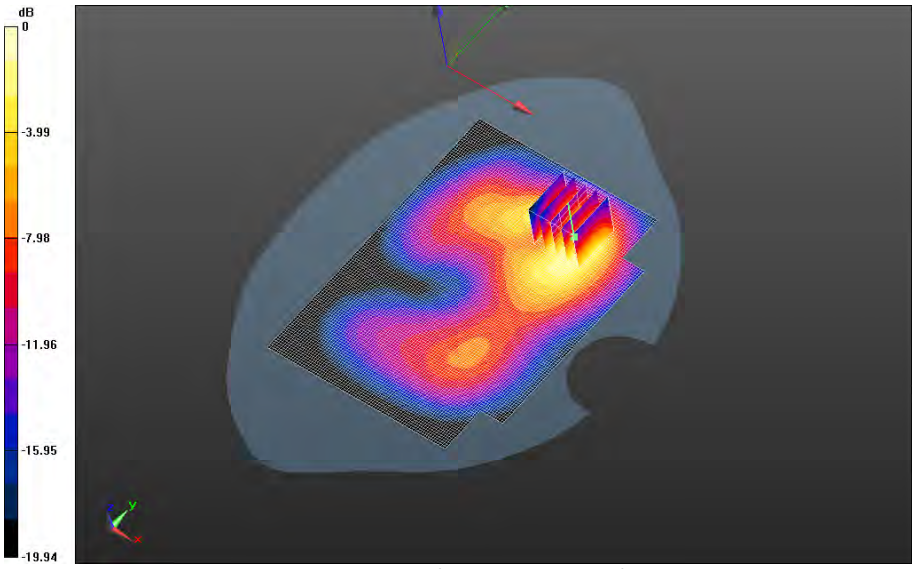
Mobile Hot Spot MSL - UMTS Band IV/10mm Device Back - UMTS band IV_chan1513_amb_temp_23.4C_liq_temp_21.4C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.198 V/m; **Power Drift = 0.032 dB**

Fast SAR: SAR(1g) = 1.09 W/kg; SAR(10g) = 0.572 W/kg
Maximum value of SAR (interpolated) = 1.43 W/kg

Mobile Hot Spot MSL - UMTS Band IV/10mm Device Back - UMTS band IV_chan1513_amb_temp_23.4C_liq_temp_21.4C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 5.198 V/m; **Power Drift = 0.032 dB**

Averaged SAR: SAR(1g) = 1.12 W/kg; SAR(10g) = 0.598 W/kg
Maximum value of SAR (interpolated) = 1.87 W/kg



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

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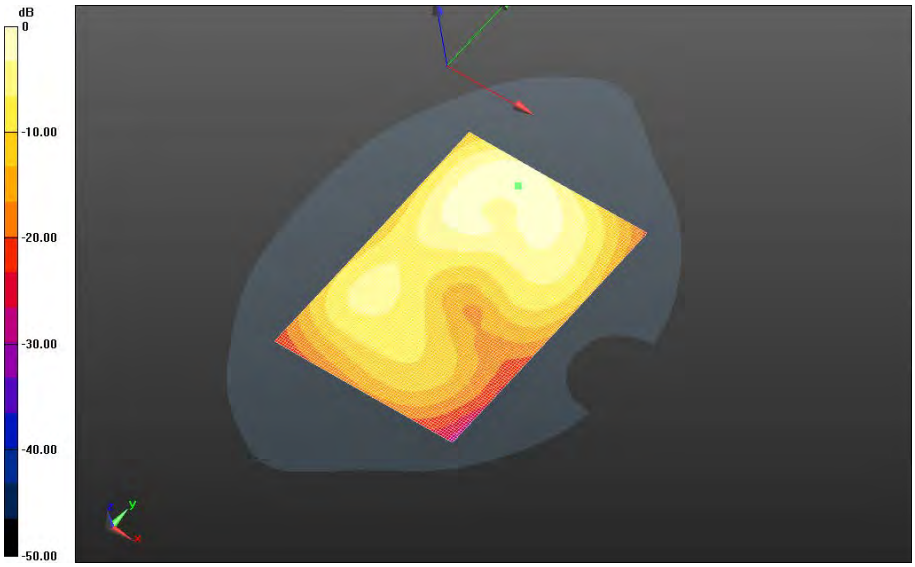
Mobile Hot Spot MSL - UMTS Band IV/10mm Device Front - UMTS band IV_chan1413_amb_temp_23.4C_liq_temp_21.5C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 4.146 V/m; **Power Drift = 0.066 dB**

Fast SAR: SAR(1g) = 0.510 W/kg; SAR(10g) = 0.292 W/kg
Maximum value of SAR (interpolated) = 0.640 W/kg



0 dB = 0.640 W/kg = -1.94 dBW/kg

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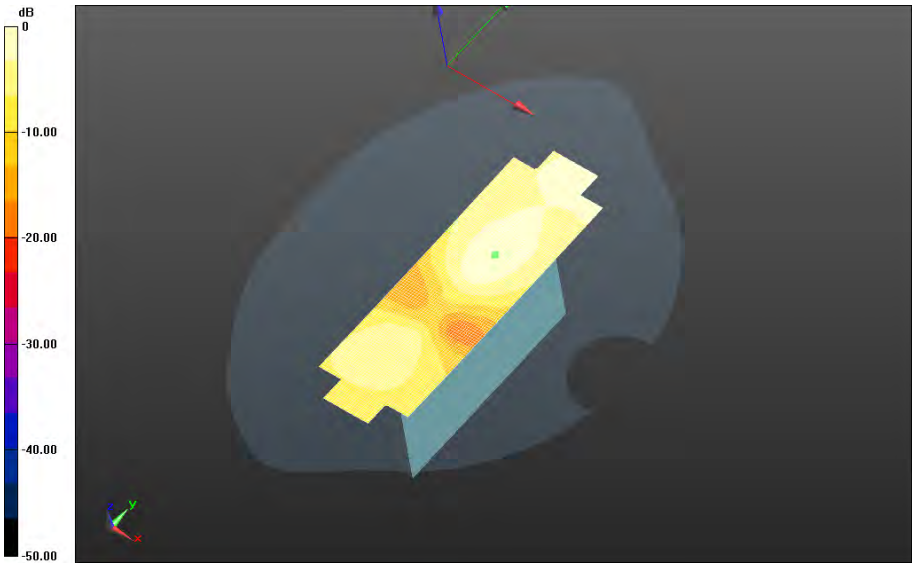
Mobile Hot Spot MSL - UMTS Band IV/10mm Device Left - UMTS band IV_chan1413_amb_temp_23.7C_liq_temp_21.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 3.447 V/m; **Power Drift = 0.151 dB**

Fast SAR: SAR(1g) = 0.0351 W/kg; SAR(10g) = 0.0200 W/kg
Maximum value of SAR (interpolated) = 0.0433 W/kg



0 dB = 0.0433 W/kg = -13.64 dBW/kg

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Mobile Hot Spot MSL - UMTS Band IV/10mm Device Right - UMTS band IV_chan1413_amb_temp_23.7C_liq_temp_21.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.957 V/m; **Power Drift = 0.108 dB**

Fast SAR: SAR(1g) = 0.361 W/kg; SAR(10g) = 0.207 W/kg
Maximum value of SAR (interpolated) = 0.443 W/kg

0 dB = 0.443 W/kg = -3.54 dBW/kg

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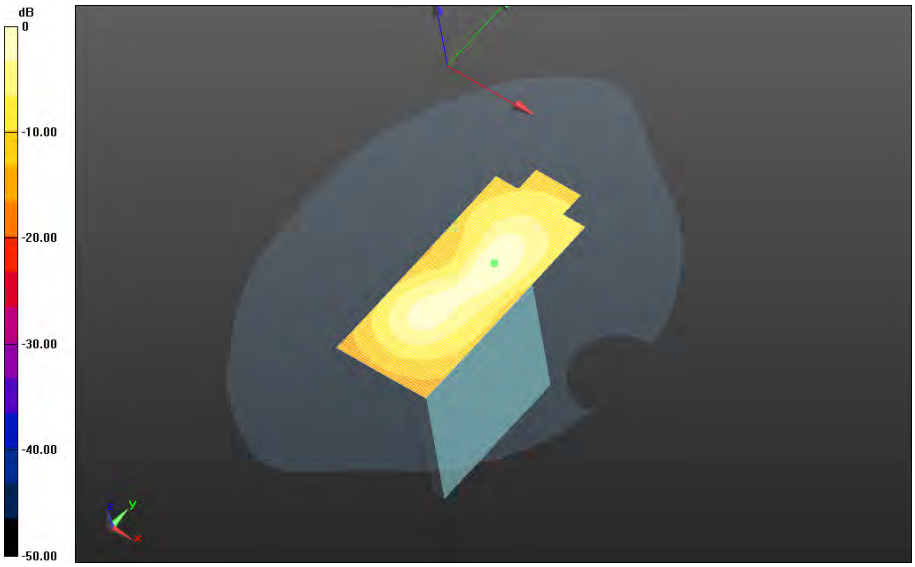
Mobile Hot Spot MSL - UMTS Band IV/10mm Device Bottom - UMTS band IV_chan1413_amb_temp_23.7C_liq_temp_21.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 15.050 V/m; **Power Drift = 0.00707 dB**

Fast SAR: SAR(1g) = 0.438 W/kg; SAR(10g) = 0.230 W/kg
Maximum value of SAR (interpolated) = 0.578 W/kg



0 dB = 0.578 W/kg = -2.38 dBW/kg

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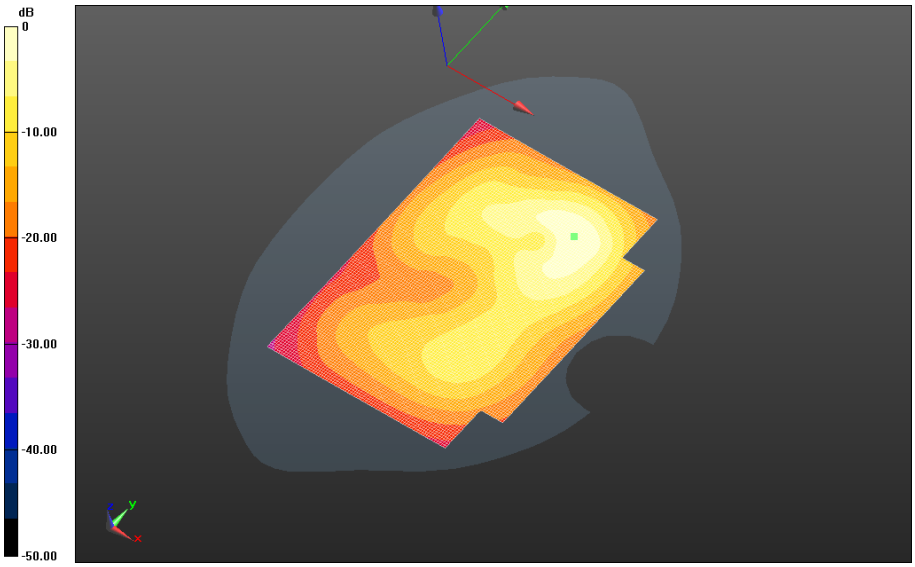
Mobile Hot Spot MSL - UMTS Band IV/Headset 10mm Device Back - UMTS band IV_chan1513_amb_temp_23.4C_liq_temp_21.4C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.325 V/m; **Power Drift = 0.023 dB**

Fast SAR: SAR(1g) = 1.09 W/kg; SAR(10g) = 0.570 W/kg
Maximum value of SAR (interpolated) = 1.43 W/kg



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

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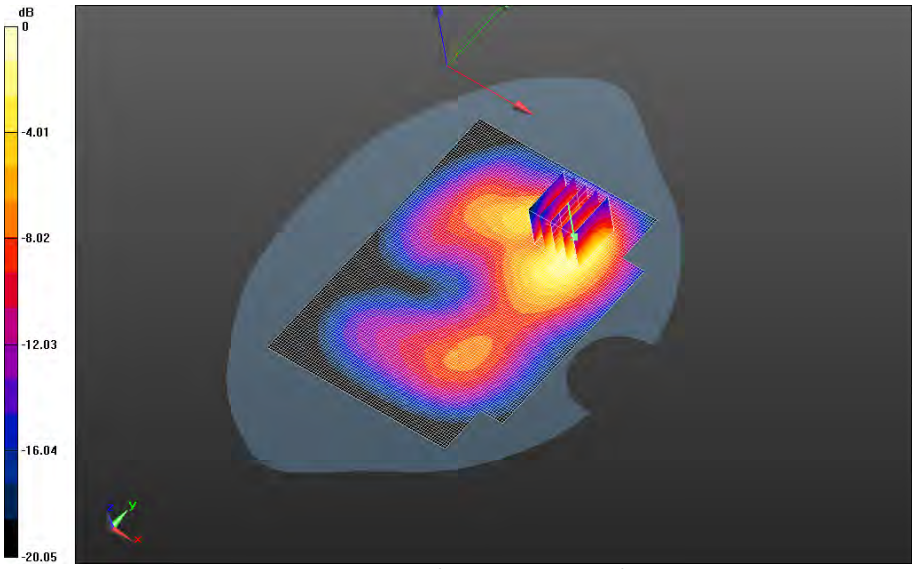
Mobile Hot Spot MSL - UMTS Band IV/2nd Scan 10mm Device Back - UMTS band IV_chan1513_amb_temp_23.5C_liq_temp_21.5C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.134 V/m; **Power Drift = 0.045 dB**

Fast SAR: SAR(1g) = 1.04 W/kg; SAR(10g) = 0.548 W/kg
Maximum value of SAR (interpolated) = 1.38 W/kg

Mobile Hot Spot MSL - UMTS Band IV/2nd Scan 10mm Device Back - UMTS band IV_chan1513_amb_temp_23.5C_liq_temp_21.5C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 5.134 V/m; **Power Drift = 0.045 dB**

Averaged SAR: SAR(1g) = 1.06 W/kg; SAR(10g) = 0.573 W/kg
Maximum value of SAR (interpolated) = 1.78 W/kg



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

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LTE Band 2

Date: 11/13/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFEDD1D

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 = 1.530 S/m; ε_r = 52.293; 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 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Mobile Hot Spot MSL - LTE Band 2/10mm Device Back - LTE band 2_chan18700_20MHz_BW_RB1_Offset_Mid_amb_temp_23.7C_liq_temp_21.7C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.514 V/m; **Power Drift = -0.036 dB**

Fast SAR: SAR(1g) = 0.789 W/kg; SAR(10g) = 0.452 W/kg
Maximum value of SAR (interpolated) = 0.971 W/kg

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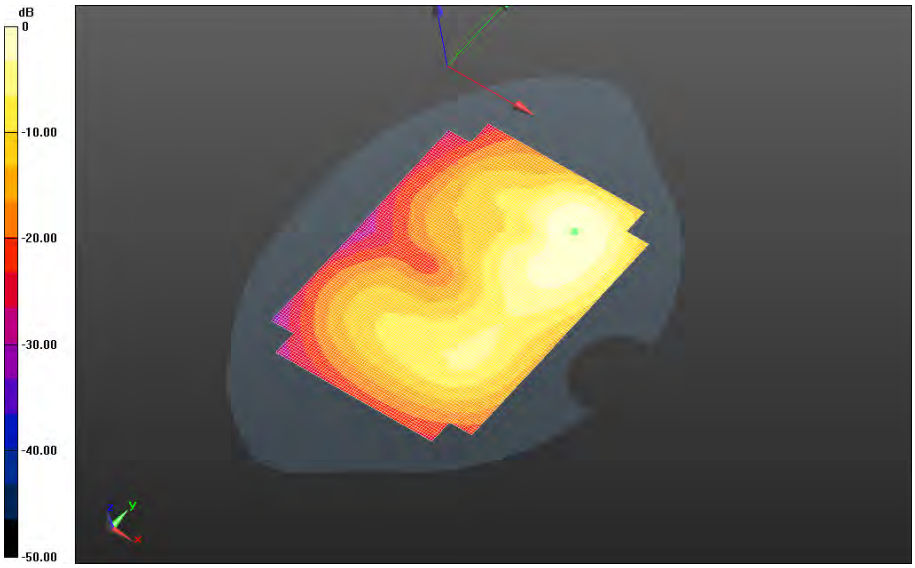

0 dB = 0.971 W/kg = -0.13 dBW/kg

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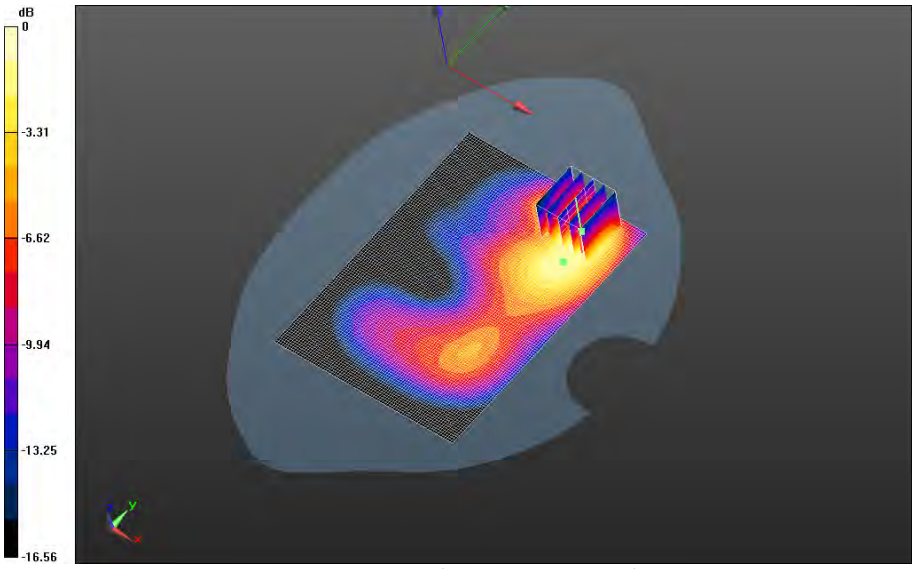
Mobile Hot Spot MSL - LTE Band 2/10mm Device Back - LTE band 2_chan18900_20MHz_BW_RB1_Offset_Mid_amb_temp_23.7C_liq_temp_21.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.815 V/m; **Power Drift = 0.037 dB**

Fast SAR: SAR(1g) = 0.833 W/kg; SAR(10g) = 0.448 W/kg
Maximum value of SAR (interpolated) = 1.07 W/kg

Mobile Hot Spot MSL - LTE Band 2/10mm Device Back - LTE band 2_chan18900_20MHz_BW_RB1_Offset_Mid_amb_temp_23.7C_liq_temp_21.6C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 5.815 V/m; **Power Drift = 0.037 dB**

Averaged SAR: SAR(1g) = 0.812 W/kg; SAR(10g) = 0.450 W/kg
Maximum value of SAR (interpolated) = 1.35 W/kg



0 dB = 0.960 W/kg = -0.18 dBW/kg

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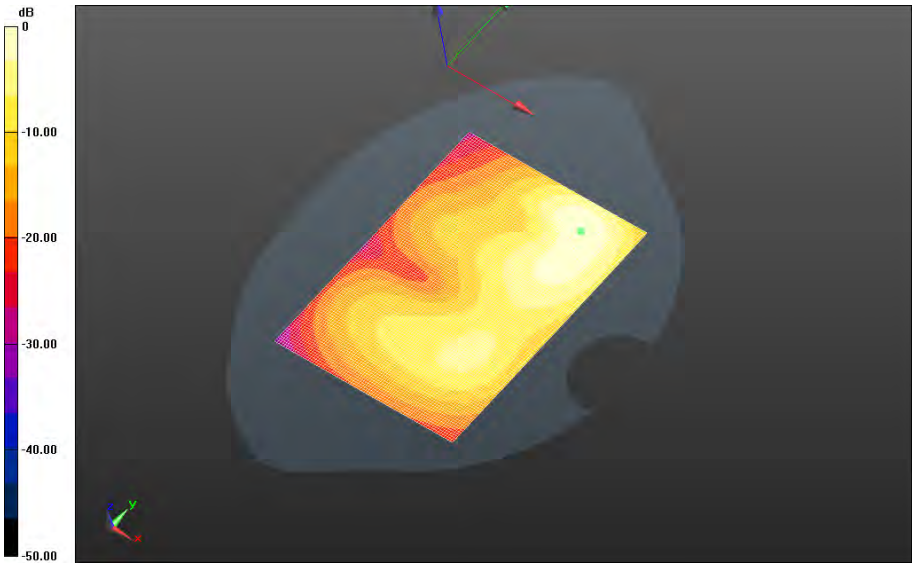
Mobile Hot Spot MSL - LTE Band 2/10mm Device Back - LTE band 2_chan19100_20MHz_BW_RB1_Offset_High_amb_temp_23.7C_liq_temp_21.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.750 V/m; **Power Drift = 0.039 dB**

Fast SAR: SAR(1g) = 0.754 W/kg; SAR(10g) = 0.406 W/kg
Maximum value of SAR (interpolated) = 0.969 W/kg



0 dB = 0.969 W/kg = -0.14 dBW/kg

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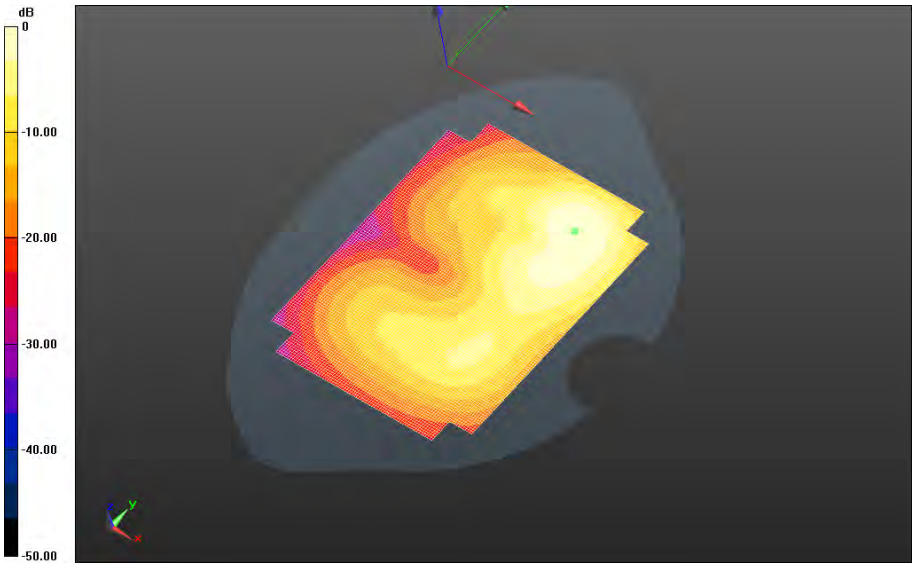
Mobile Hot Spot MSL - LTE Band 2/10mm Device Back - LTE band 2_chan18700_20MHz_BW_RB50_Offset_Low_amb_temp_23.7C_liq_temp_21.7C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.514 V/m; **Power Drift = -0.00832 dB**

Fast SAR: SAR(1g) = 0.814 W/kg; SAR(10g) = 0.465 W/kg
Maximum value of SAR (interpolated) = 1.00 W/kg



0 dB = 1.00 W/kg = 0.00 dBW/kg

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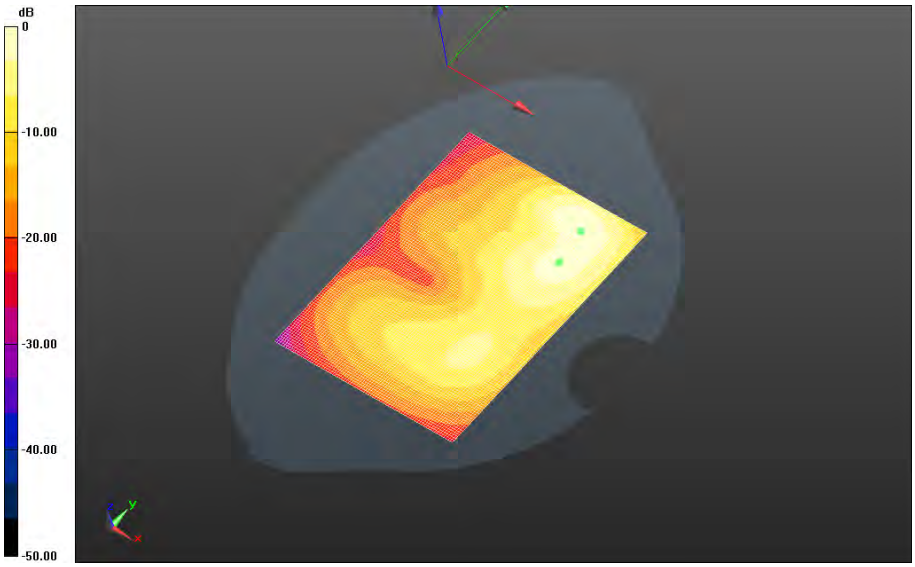
Mobile Hot Spot MSL - LTE Band 2/10mm Device Back - LTE band 2_chan18900_20MHz_BW_RB50_Offset_High_amb_temp_23.7C_liq_temp_21.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.859 V/m; **Power Drift = -0.054 dB**

Fast SAR: SAR(1g) = 0.819 W/kg; SAR(10g) = 0.439 W/kg
Maximum value of SAR (interpolated) = 1.06 W/kg



0 dB = 1.06 W/kg = 0.25 dBW/kg

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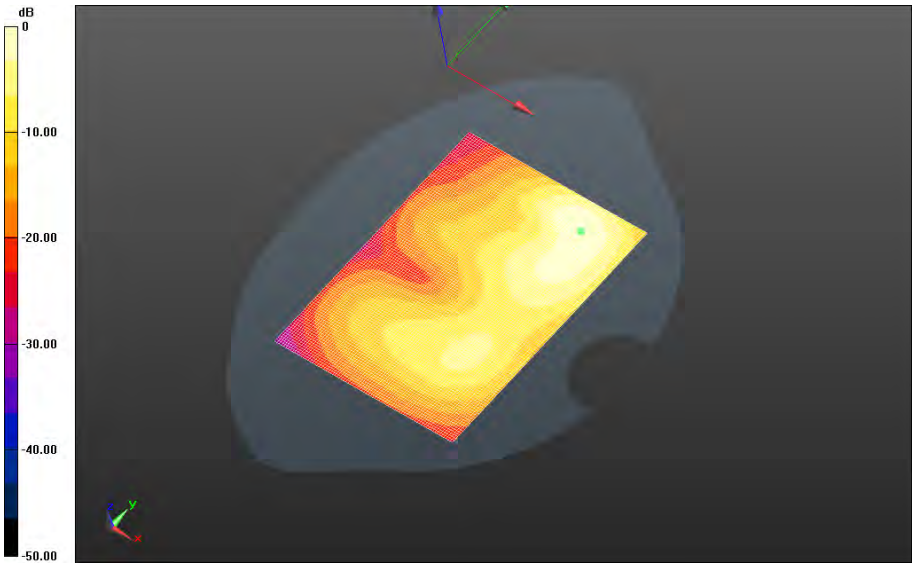
Mobile Hot Spot MSL - LTE Band 2/10mm Device Back - LTE band 2_chan19100_20MHz_BW_RB50_Offset_Low_amb_temp_23.7C_liq_temp_21.7C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.811 V/m; **Power Drift = 0.020 dB**

Fast SAR: SAR(1g) = 0.823 W/kg; SAR(10g) = 0.440 W/kg
Maximum value of SAR (interpolated) = 1.06 W/kg



0 dB = 1.06 W/kg = 0.25 dBW/kg

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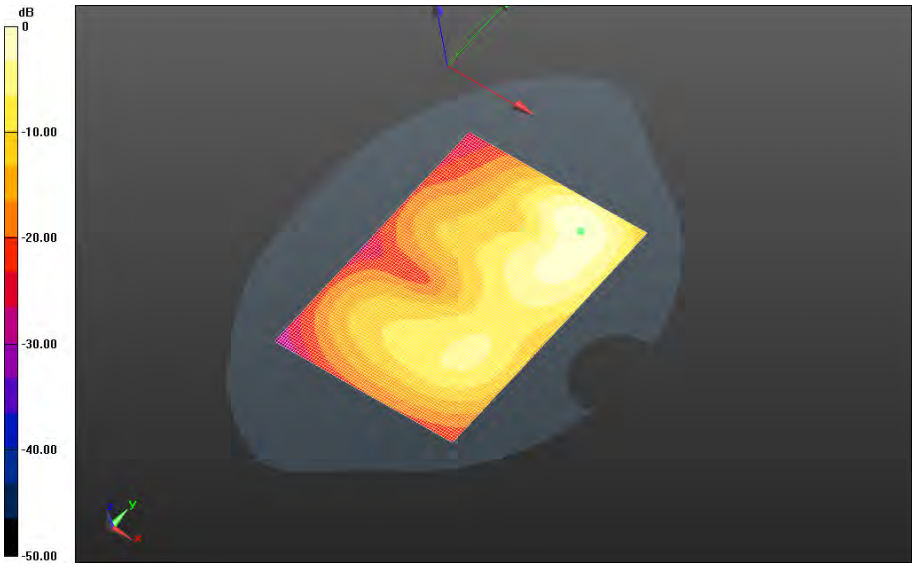
Mobile Hot Spot MSL - LTE Band 2/10mm Device Back - LTE band 2_chan19100_20MHz_BW_RB100_Offset_Low_amb_temp_23.7C_liq_temp_21.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.841 V/m; **Power Drift = 0.067 dB**

Fast SAR: SAR(1g) = 0.829 W/kg; SAR(10g) = 0.444 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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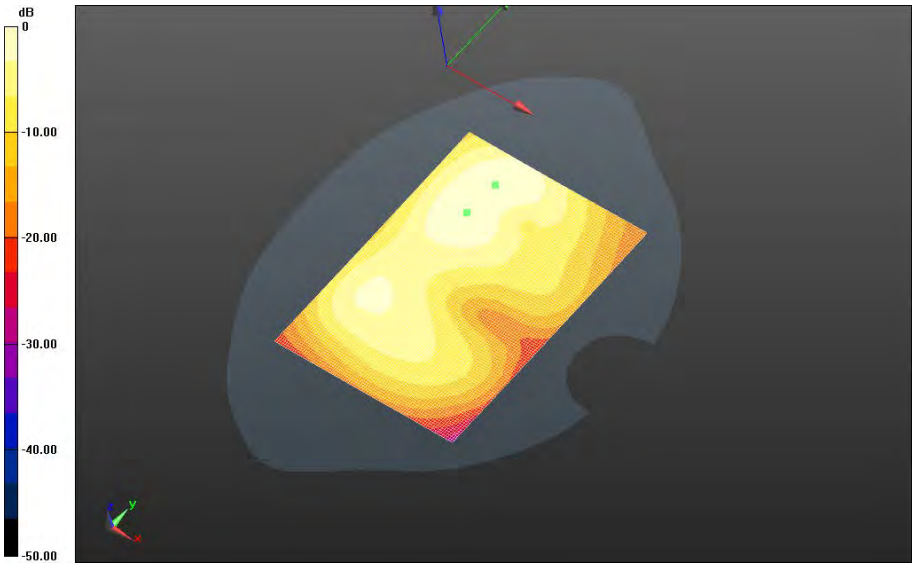
Mobile Hot Spot MSL - LTE Band 2/10mm Device Front - LTE band 2_chan19100_20MHz_BW_RB1_Offset_High_amb_temp_23.8C_liq_temp_21.7C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 6.529 V/m; **Power Drift = 0.015 dB**

Fast SAR: SAR(1g) = 0.518 W/kg; SAR(10g) = 0.304 W/kg
Maximum value of SAR (interpolated) = 0.634 W/kg



0 dB = 0.634 W/kg = -1.98 dBW/kg

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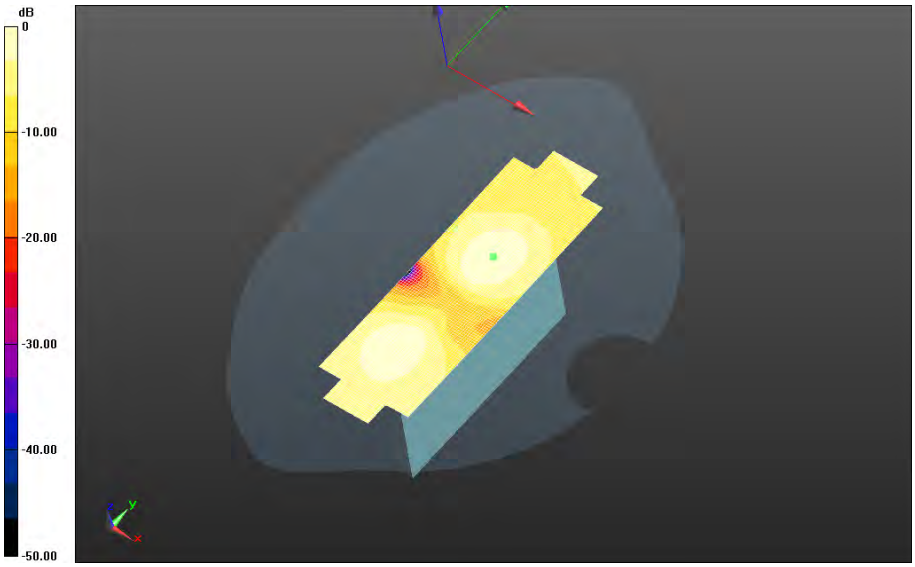
Mobile Hot Spot MSL - LTE Band 2/10mm Device Left - LTE band 2_chan19100_20MHz_BW_RB1_Offset_High_amb_temp_23.7C_liq_temp_21.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 2.512 V/m; **Power Drift = 0.429 dB**

Fast SAR: SAR(1g) = 0.0218 W/kg; SAR(10g) = 0.0120 W/kg
Maximum value of SAR (interpolated) = 0.0268 W/kg



0 dB = 0.0268 W/kg = -15.72 dBW/kg

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Mobile Hot Spot MSL - LTE Band 2/10mm Device Right - LTE band 2_chan19100_20MHz_BW_RB1_Offset_High_amb_temp_23.8C_liq_temp_21.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 14.437 V/m; **Power Drift = 0.032 dB**

Fast SAR: SAR(1g) = 0.576 W/kg; SAR(10g) = 0.320 W/kg; Secondary SAR(1g) = 0.510 W/kg
Maximum value of SAR (interpolated) = 0.719 W/kg

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

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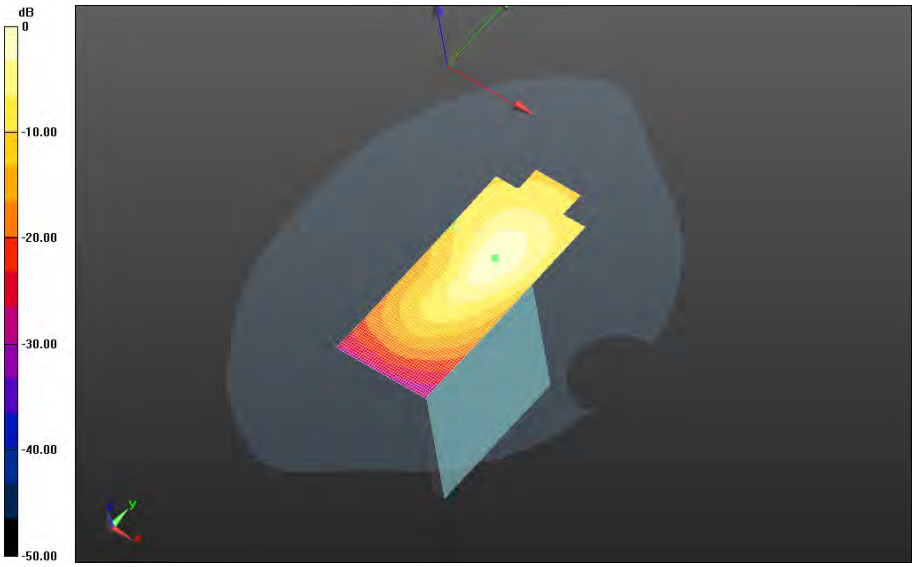
Mobile Hot Spot MSL - LTE Band 2/10mm Device Bottom - LTE band 2_chan19100_20MHz_BW_RB1_Offset_High_amb_temp_23.3C_liq_temp_21.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 13.979 V/m; **Power Drift = 0.037 dB**

Fast SAR: SAR(1g) = 0.586 W/kg; SAR(10g) = 0.305 W/kg; Secondary SAR(1g) = 0.510 W/kg
Maximum value of SAR (interpolated) = 0.766 W/kg



0 dB = 0.766 W/kg = -1.16 dBW/kg

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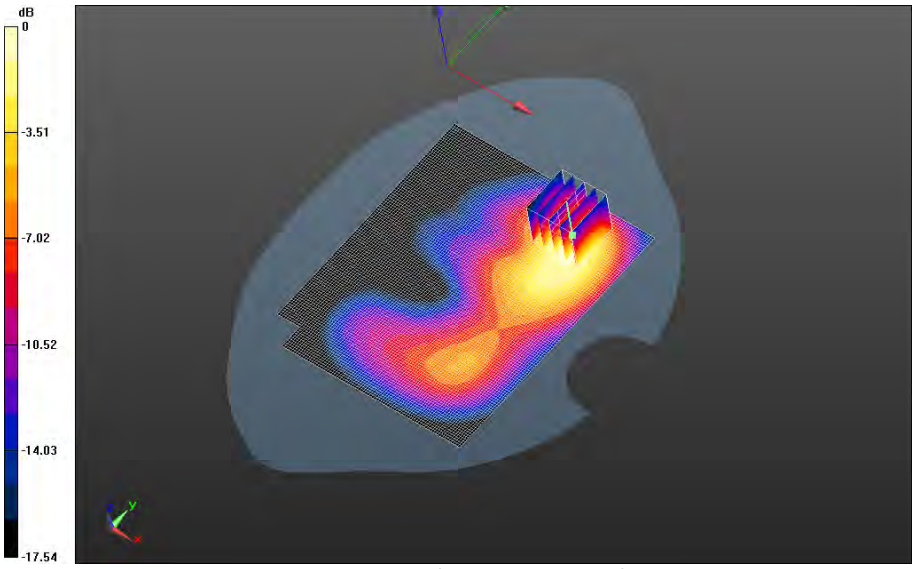
Mobile Hot Spot MSL - LTE Band 2/2nd Scan 10mm Device Back - LTE band 2_chan18900_20MHz_BW_RB1_Offset_Mid_amb_temp_23.7C_liq_temp_21.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 6.949 V/m; **Power Drift = -0.015 dB**

Fast SAR: SAR(1g) = 0.719 W/kg; SAR(10g) = 0.425 W/kg; Secondary SAR(1g) = 0.510 W/kg
Maximum value of SAR (interpolated) = 0.904 W/kg

Mobile Hot Spot MSL - LTE Band 2/2nd Scan 10mm Device Back - LTE band 2_chan18900_20MHz_BW_RB1_Offset_Mid_amb_temp_23.7C_liq_temp_21.6C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 6.949 V/m; **Power Drift = -0.015 dB**

Averaged SAR: SAR(1g) = 0.811 W/kg; SAR(10g) = 0.457 W/kg
Maximum value of SAR (interpolated) = 1.34 W/kg



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

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GSM 1900

Date: 11/12/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFEDD03

Configuration: Mobile Hot Spot MSL - DTM 1900

Communication System: DTM 1900 (2slots) (0); Communication System Band: DTM 1900; Frequency: 1850.2 MHz
Medium Parameters used: f=1850.2 MHz; σ = 1.522 S/m; ε_r = 52.330; 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 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Mobile Hot Spot MSL - DTM 1900/10mm Device Back - GPRS1900_2-slots_chan512_amb_temp_22.9C_liq_temp_21.7C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 6.543 V/m; **Power Drift = 0.025 dB**

Fast SAR: SAR(1g) = 0.945 W/kg; SAR(10g) = 0.498 W/kg
Maximum value of SAR (interpolated) = 1.29 W/kg

Mobile Hot Spot MSL - DTM 1900/10mm Device Back - GPRS1900_2-slots_chan512_amb_temp_22.9C_liq_temp_21.7C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 6.543 V/m; **Power Drift = 0.025 dB**

Averaged SAR: SAR(1g) = 0.961 W/kg; SAR(10g) = 0.524 W/kg
Maximum value of SAR (interpolated) = 1.62 W/kg

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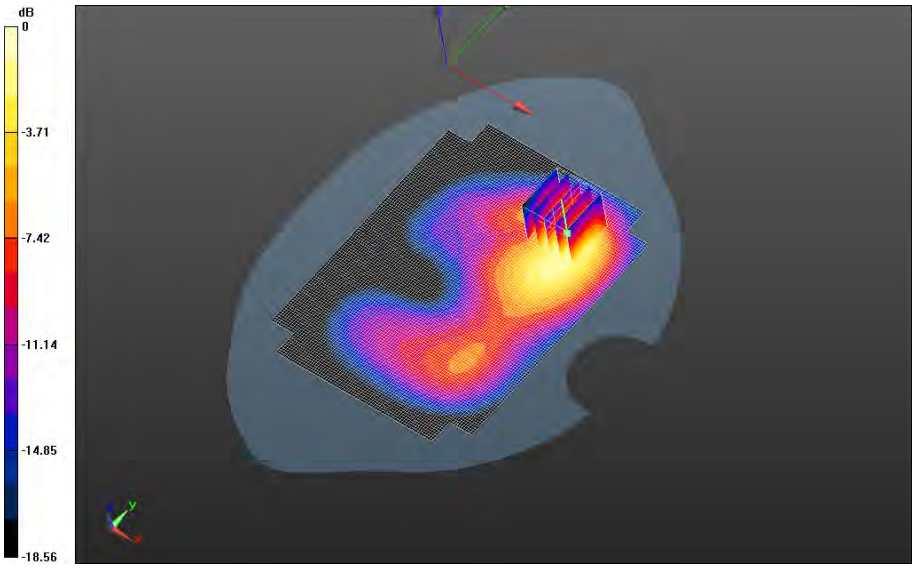

0 dB = 1.21 W/kg = 0.83 dBW/kg

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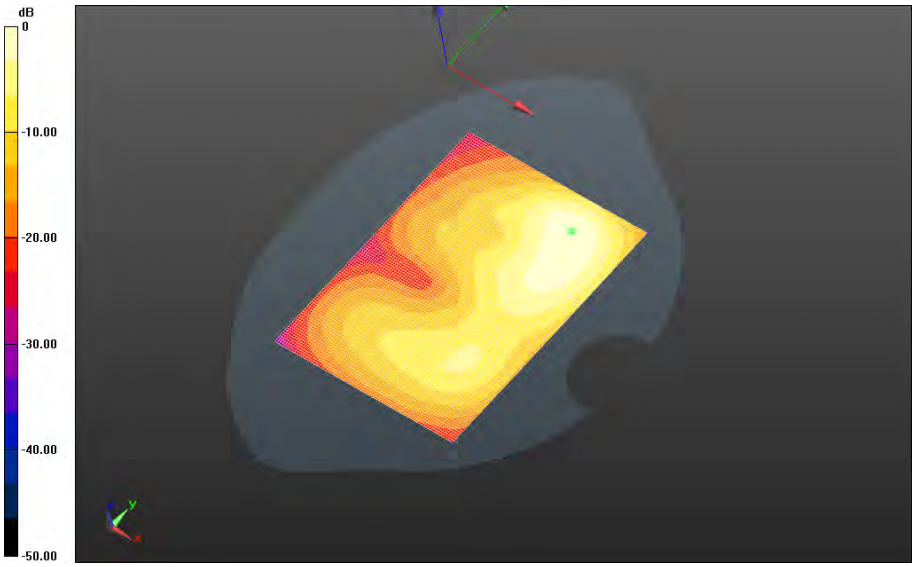
Mobile Hot Spot MSL - DTM 1900/10mm Device Back - GPRS1900_2-slots_chan661_amb_temp_22.9C_liq_temp_21.8C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 6.647 V/m; **Power Drift = -0.171 dB**

Fast SAR: SAR(1g) = 0.759 W/kg; SAR(10g) = 0.431 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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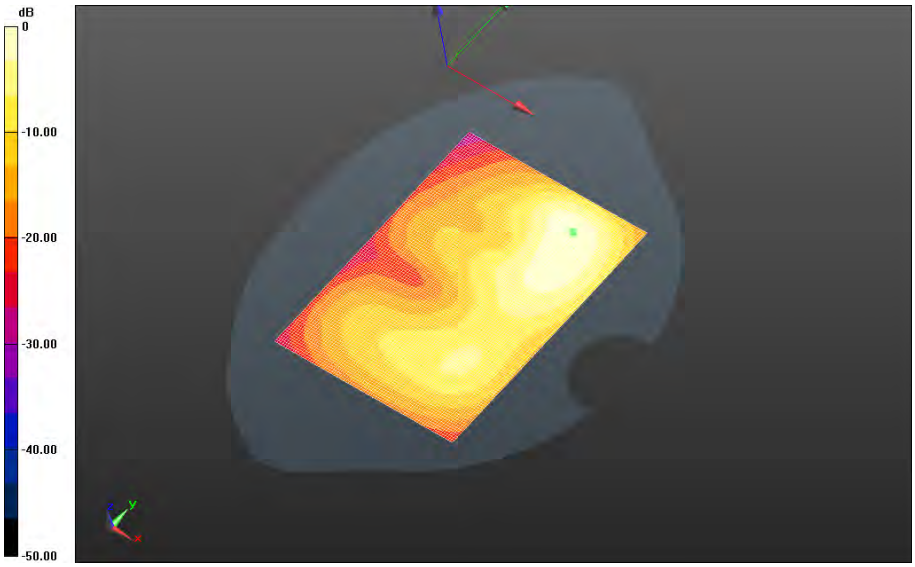
Mobile Hot Spot MSL - DTM 1900/10mm Device Back - GPRS1900_2-slots_chan810_amb_temp_22.9C_liq_temp_21.8C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 6.990 V/m; **Power Drift = -0.109 dB**

Fast SAR: SAR(1g) = 0.761 W/kg; SAR(10g) = 0.438 W/kg; Secondary SAR(1g) = 0.716 W/kg
Maximum value of SAR (interpolated) = 0.984 W/kg



0 dB = 0.984 W/kg = -0.07 dBW/kg

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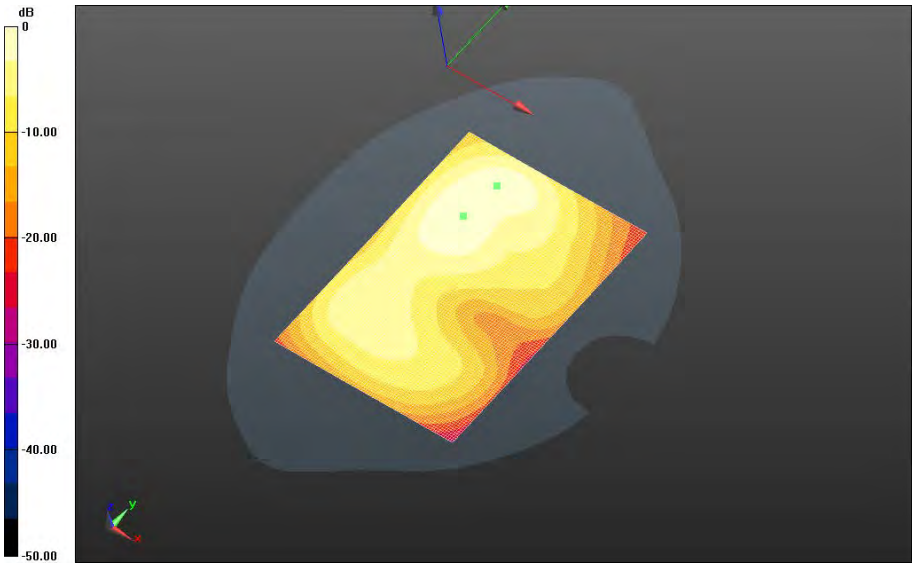
Mobile Hot Spot MSL - DTM 1900/10mm Device Front - GPRS1900_2-slots_chan661_amb_temp_23.3C_liq_temp_21.7C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.469 V/m; **Power Drift = -0.043 dB**

Fast SAR: SAR(1g) = 0.511 W/kg; SAR(10g) = 0.299 W/kg; Secondary SAR(1g) = 0.716 W/kg
Maximum value of SAR (interpolated) = 0.624 W/kg



0 dB = 0.624 W/kg = -2.05 dBW/kg

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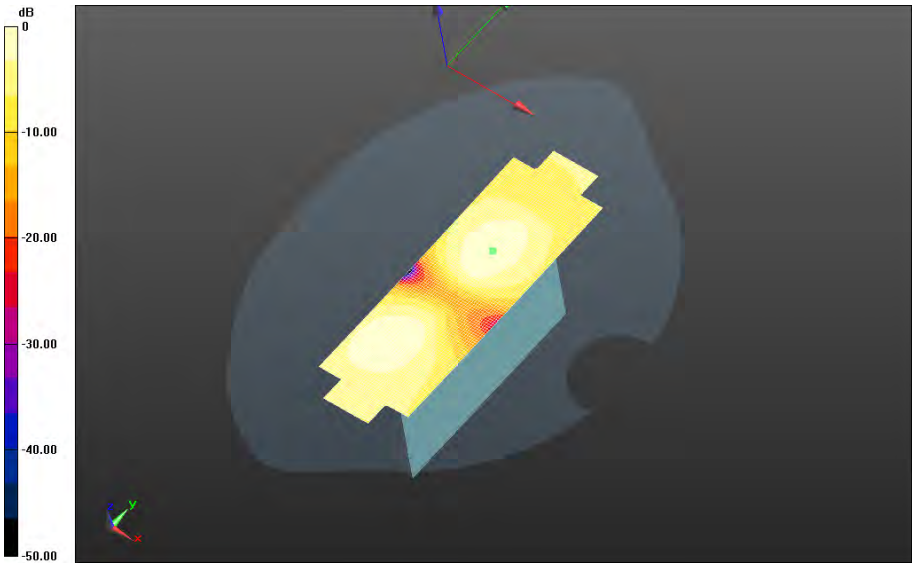
Mobile Hot Spot MSL - DTM 1900/10mm Device Left - GPRS1900_2-slots_chan661_amb_temp_23.5C_liq_temp_21.7C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 2.009 V/m; **Power Drift = 0.143 dB**

Fast SAR: SAR(1g) = 0.0205 W/kg; SAR(10g) = 0.0114 W/kg; Secondary SAR(1g) = 0.716 W/kg
Maximum value of SAR (interpolated) = 0.0253 W/kg



0 dB = 0.0253 W/kg = -15.97 dBW/kg

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Mobile Hot Spot MSL - DTM 1900/10mm Device Right - GPRS1900_2-slots_chan661_amb_temp_23.4C_liq_temp_21.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.543 V/m; **Power Drift = -0.029 dB**

Fast SAR: SAR(1g) = 0.447 W/kg; SAR(10g) = 0.252 W/kg; Secondary SAR(1g) = 0.716 W/kg
Maximum value of SAR (interpolated) = 0.552 W/kg

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

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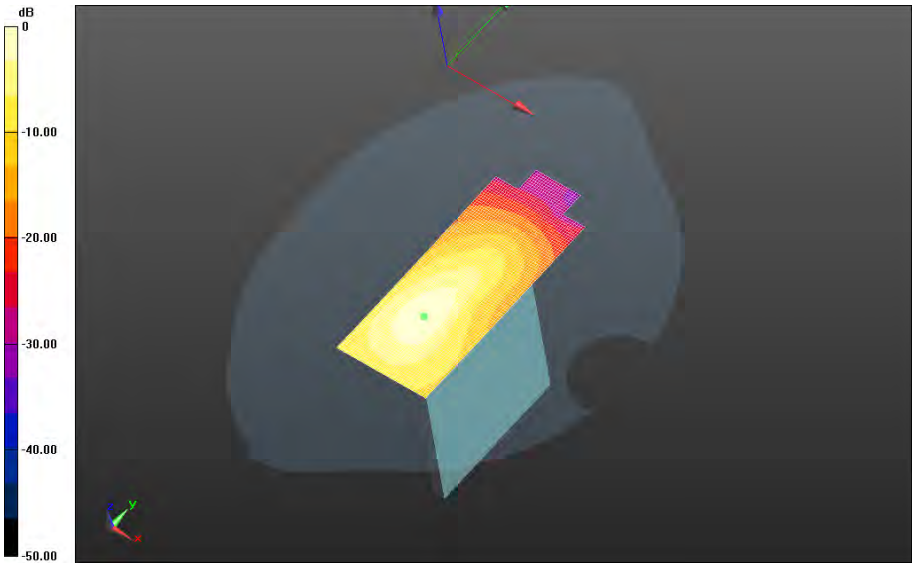
Mobile Hot Spot MSL - DTM 1900/10mm Device Bottom - GPRS1900_2-slots_chan661_amb_temp_23.4C_liq_temp_21.5C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 11.300 V/m; **Power Drift = -0.011 dB**

Fast SAR: SAR(1g) = 0.430 W/kg; SAR(10g) = 0.229 W/kg; Secondary SAR(1g) = 0.716 W/kg
Maximum value of SAR (interpolated) = 0.559 W/kg



0 dB = 0.559 W/kg = -2.53 dBW/kg

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Mobile Hot Spot MSL - DTM 1900/Headset 10mm Device Back - GPRS1900_2-slots_chan512_amb_temp_23.3C_liq_temp_21.5C 2/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.940 V/m; **Power Drift = -0.035 dB**

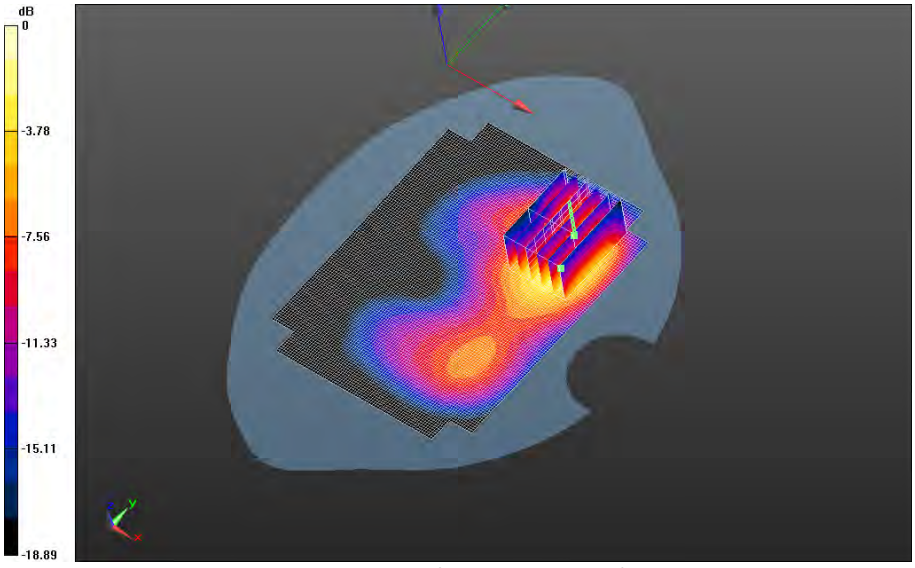
Fast SAR: SAR(1g) = 0.952 W/kg; SAR(10g) = 0.507 W/kg; Secondary SAR(1g) = 0.716 W/kg
Maximum value of SAR (interpolated) = 1.27 W/kg

Mobile Hot Spot MSL - DTM 1900/Headset 10mm Device Back - GPRS1900_2-slots_chan512_amb_temp_23.3C_liq_temp_21.5C 2/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 5.940 V/m; **Power Drift = -0.035 dB**

Averaged SAR: SAR(1g) = 0.984 W/kg; SAR(10g) = 0.540 W/kg
Maximum value of SAR (interpolated) = 1.66 W/kg

Mobile Hot Spot MSL - DTM 1900/Headset 10mm Device Back - GPRS1900_2-slots_chan512_amb_temp_23.3C_liq_temp_21.5C 2/Zoom Scan 2 (26x36x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 5.940 V/m; **Power Drift = -0.019 dB**

Averaged SAR: SAR(1g) = 0.975 W/kg; SAR(10g) = 0.538 W/kg
Maximum value of SAR (interpolated) = 1.63 W/kg



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

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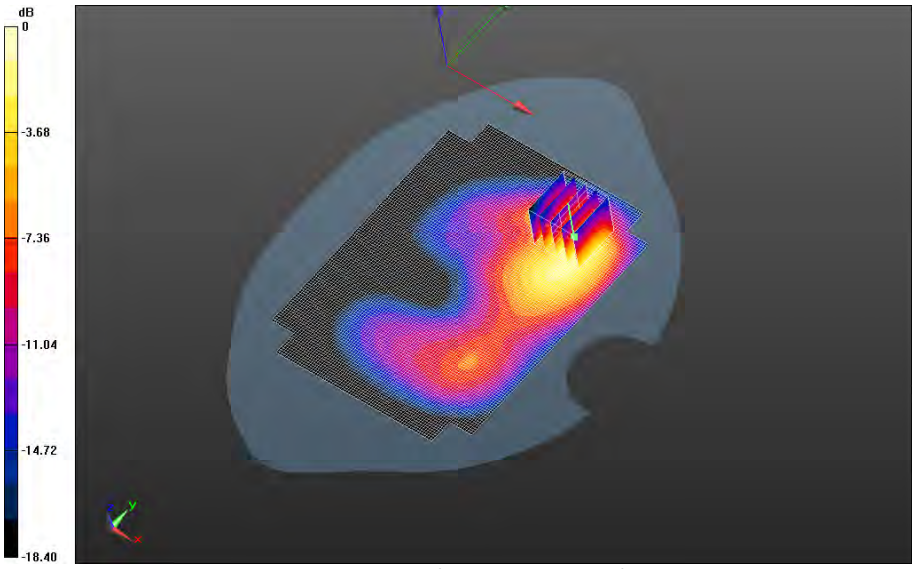
Mobile Hot Spot MSL - DTM 1900/2nd Scan Headset 10mm Device Back - GPRS1900_2-slots_chan512_amb_temp_23.3C_liq_temp_21.5C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.736 V/m; **Power Drift = 0.100 dB**

Fast SAR: SAR(1g) = 0.981 W/kg; SAR(10g) = 0.516 W/kg; Secondary SAR(1g) = 0.716 W/kg
Maximum value of SAR (interpolated) = 1.32 W/kg

Mobile Hot Spot MSL - DTM 1900/2nd Scan Headset 10mm Device Back - GPRS1900_2-slots_chan512_amb_temp_23.3C_liq_temp_21.5C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 5.736 V/m; **Power Drift = 0.100 dB**

Averaged SAR: SAR(1g) = 1.02 W/kg; SAR(10g) = 0.551 W/kg
Maximum value of SAR (interpolated) = 1.71 W/kg



0 dB = 1.28 W/kg = 1.07 dBW/kg

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UMTS Band II

Date: 11/11/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFEDD03

Configuration: Mobile Hot Spot MSL - UMTS 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 = 1.523 S/m; ε_r = 52.324; 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 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Mobile Hot Spot MSL - UMTS II/10mm Device Back - UMTS II_chan9262_amb_temp_24.2C_liq_temp_22.4C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.934 V/m; **Power Drift = 0.068 dB**

Fast SAR: SAR(1g) = 0.896 W/kg; SAR(10g) = 0.470 W/kg
Maximum value of SAR (interpolated) = 1.21 W/kg

Mobile Hot Spot MSL - UMTS II/10mm Device Back - UMTS II_chan9262_amb_temp_24.2C_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 = 5.934 V/m; **Power Drift = 0.068 dB**

Averaged SAR: SAR(1g) = 0.991 W/kg; SAR(10g) = 0.538 W/kg
Maximum value of SAR (interpolated) = 1.65 W/kg

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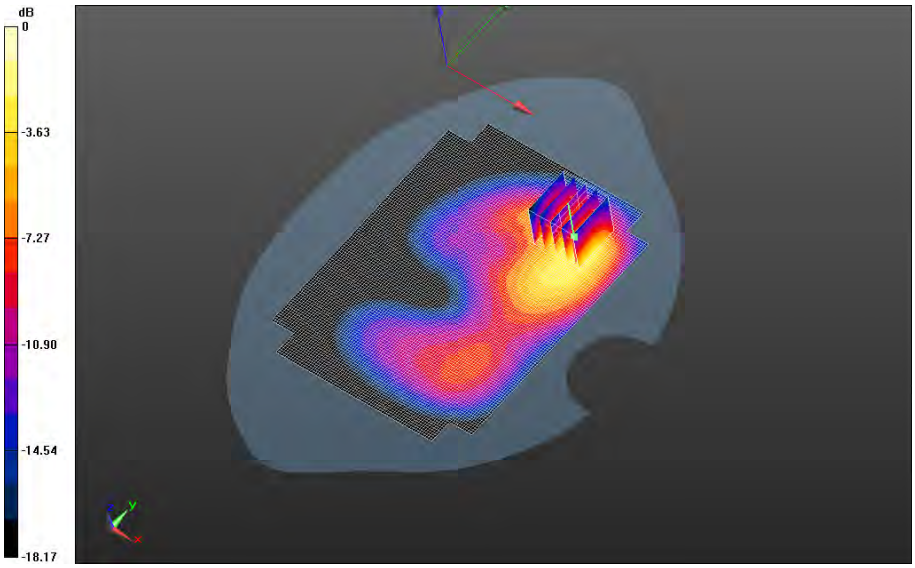

0 dB = 1.24 W/kg = 0.93 dBW/kg

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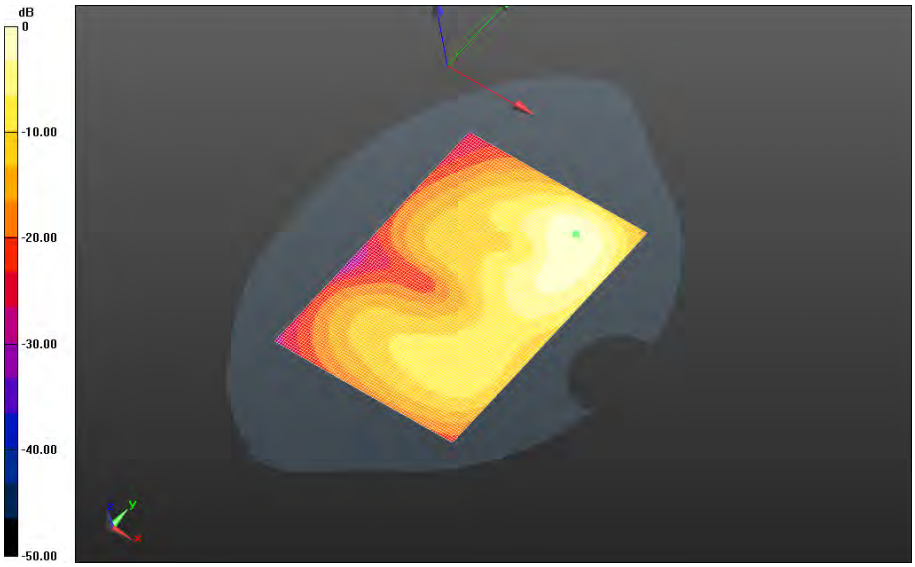
Mobile Hot Spot MSL - UMTS II/10mm Device Back - UMTS II_chan9400_amb_temp_24.2C_liq_temp_22.5C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 6.218 V/m; **Power Drift = 0.101 dB**

Fast SAR: SAR(1g) = 0.823 W/kg; SAR(10g) = 0.471 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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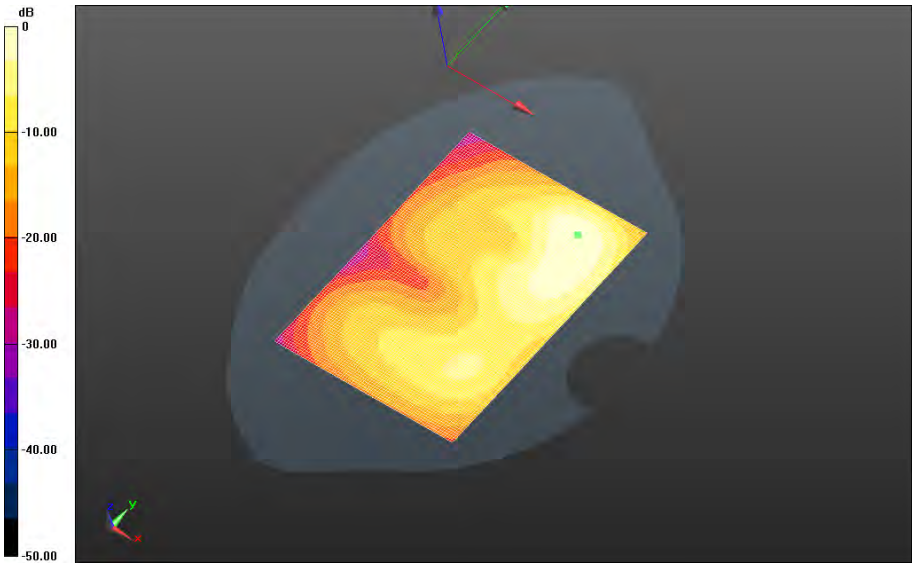
Mobile Hot Spot MSL - UMTS II/10mm Device Back - UMTS II_chan9538_amb_temp_24.2C_liq_temp_22.3C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 6.680 V/m; **Power Drift = 0.024 dB**

Fast SAR: SAR(1g) = 0.751 W/kg; SAR(10g) = 0.438 W/kg
Maximum value of SAR (interpolated) = 0.952 W/kg



0 dB = 0.952 W/kg = -0.21 dBW/kg

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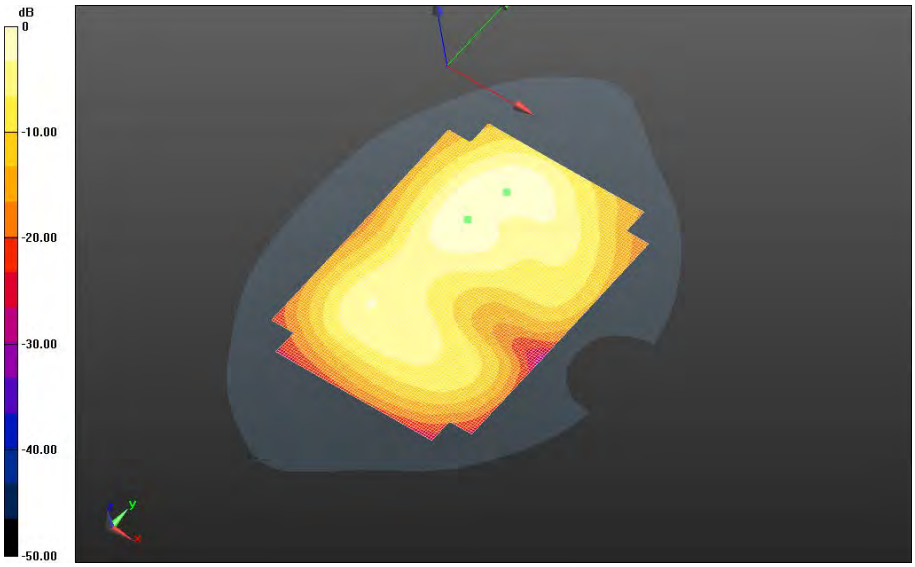
Mobile Hot Spot MSL - UMTS II/10mm Device Front - UMTS II_chan9400_amb_temp_24.0C_liq_temp_22.3C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.067 V/m; **Power Drift = 0.088 dB**

Fast SAR: SAR(1g) = 0.476 W/kg; SAR(10g) = 0.279 W/kg
Maximum value of SAR (interpolated) = 0.585 W/kg



0 dB = 0.585 W/kg = -2.33 dBW/kg

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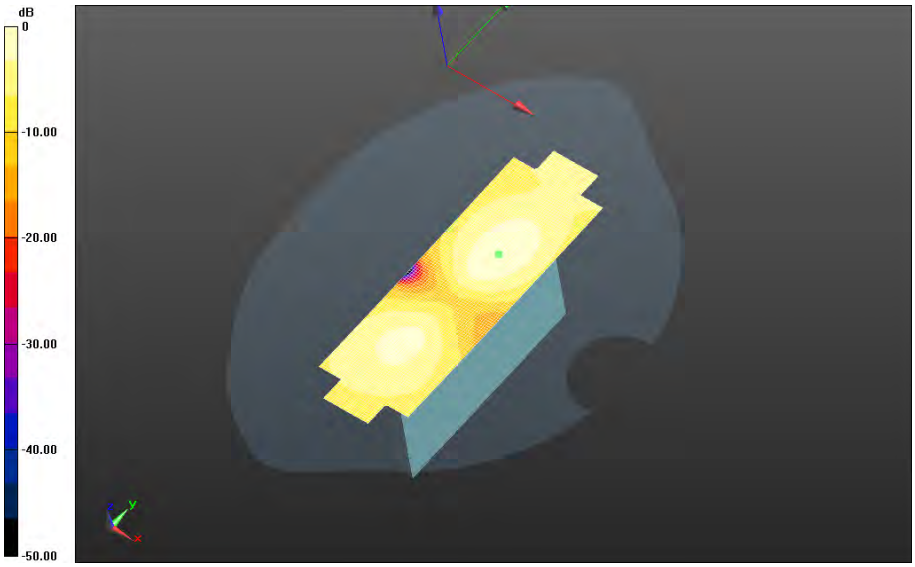
Mobile Hot Spot MSL - UMTS II/10mm Device Left - UMTS II_chan9400_amb_temp_23.9C_liq_temp_22.2C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 2.975 V/m; **Power Drift = 0.236 dB**

Fast SAR: SAR(1g) = 0.0382 W/kg; SAR(10g) = 0.0215 W/kg
Maximum value of SAR (interpolated) = 0.0476 W/kg



0 dB = 0.0476 W/kg = -13.22 dBW/kg

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Mobile Hot Spot MSL - UMTS II/10mm Device Right - UMTS II_chan9400_amb_temp_23.6C_liq_temp_22.4C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.789 V/m; **Power Drift = 0.026 dB**

Fast SAR: SAR(1g) = 0.496 W/kg; SAR(10g) = 0.276 W/kg
Maximum value of SAR (interpolated) = 0.615 W/kg

0 dB = 0.615 W/kg = -2.11 dBW/kg

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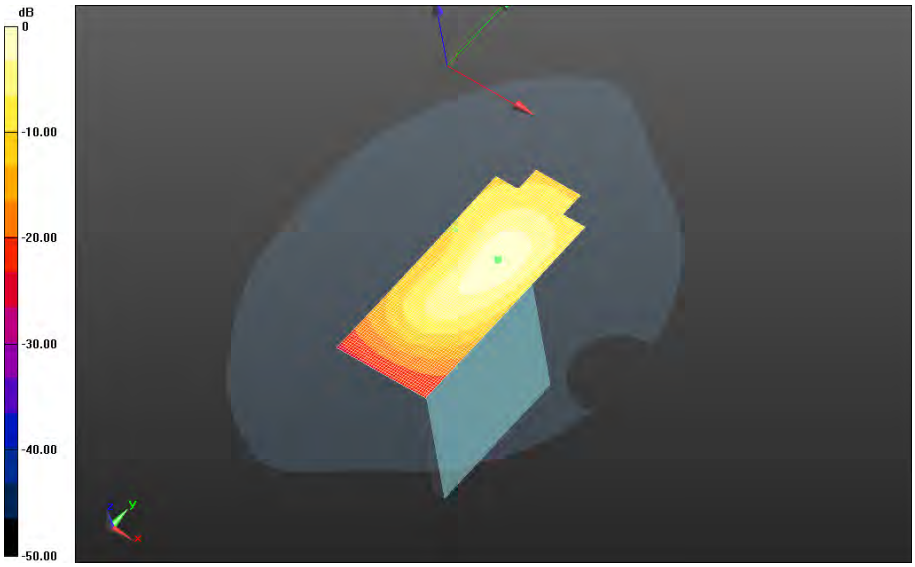
Mobile Hot Spot MSL - UMTS II/10mm Device Bottom - UMTS II_chan9400_amb_temp_24.0C_liq_temp_22.2C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 13.671 V/m; **Power Drift = 0.137 dB**

Fast SAR: SAR(1g) = 0.421 W/kg; SAR(10g) = 0.229 W/kg
Maximum value of SAR (interpolated) = 0.539 W/kg



0 dB = 0.539 W/kg = -2.68 dBW/kg

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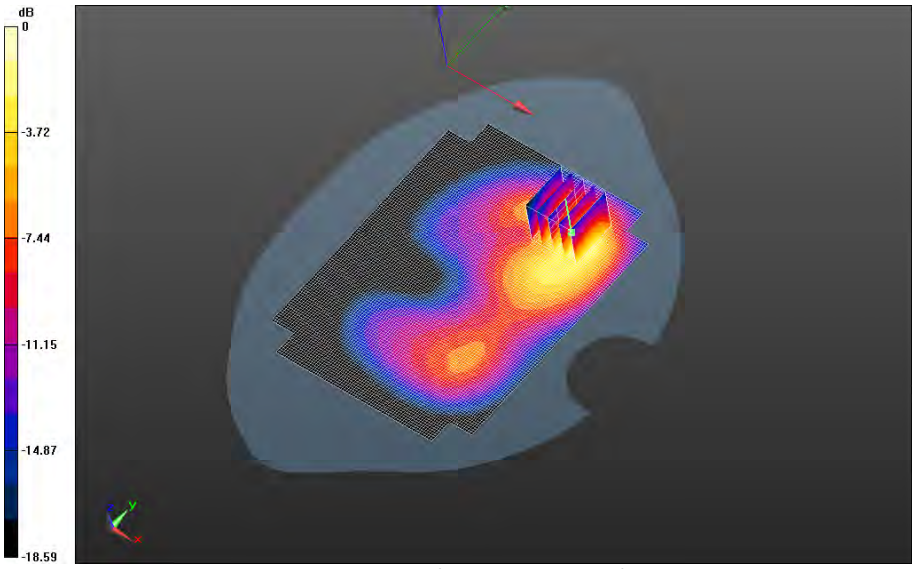
Mobile Hot Spot MSL - UMTS II/Headset 10mm Device Back - UMTS II_chan9262_amb_temp_24.1C_liq_temp_22.3C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.853 V/m; **Power Drift = 0.00099 dB**

Fast SAR: SAR(1g) = 0.908 W/kg; SAR(10g) = 0.477 W/kg
Maximum value of SAR (interpolated) = 1.21 W/kg

Mobile Hot Spot MSL - UMTS II/Headset 10mm Device Back - UMTS II_chan9262_amb_temp_24.1C_liq_temp_22.3C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 5.853 V/m; **Power Drift = 0.00099 dB**

Averaged SAR: SAR(1g) = 0.938 W/kg; SAR(10g) = 0.507 W/kg
Maximum value of SAR (interpolated) = 1.57 W/kg



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

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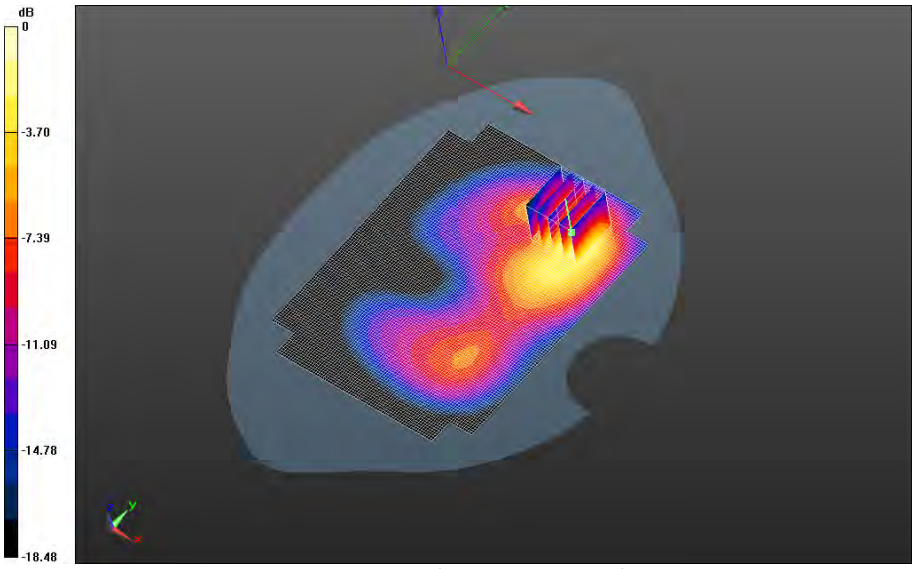
Mobile Hot Spot MSL - UMTS II/2nd Scan 10mm Device Back - UMTS II_chan9262_amb_temp_23.7C_liq_temp_22.2C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.839 V/m; **Power Drift = -0.047 dB**

Fast SAR: SAR(1g) = 0.929 W/kg; SAR(10g) = 0.487 W/kg
Maximum value of SAR (interpolated) = 1.24 W/kg

Mobile Hot Spot MSL - UMTS II/2nd Scan 10mm Device Back - UMTS II_chan9262_amb_temp_23.7C_liq_temp_22.2C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 5.839 V/m; **Power Drift = -0.047 dB**

Averaged SAR: SAR(1g) = 0.960 W/kg; SAR(10g) = 0.518 W/kg
Maximum value of SAR (interpolated) = 1.61 W/kg



0 dB = 1.19 W/kg = 0.76 dBW/kg

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802.11b/g

Date: 11/21/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFEDD03

Configuration: Mobile Hot Spot MSL - 802.11bg

Communication System: 802.11 b (2450) (0); Communication System Band: 802.11 b;
Frequency: 2437 MHz
Medium Parameters used: f=2437 MHz; σ = 1.985 S/m; ε_r = 52.780; 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 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Mobile Hot Spot MSL - 802.11bg/10mm Device Back - 802.11g_chan6_amb_temp_23.7C_liq_temp_21.4C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 4.084 V/m; **Power Drift = 0.012 dB**

Fast SAR: SAR(1g) = 0.131 W/kg; SAR(10g) = 0.0680 W/kg
Maximum value of SAR (interpolated) = 0.170 W/kg

Mobile Hot Spot MSL - 802.11bg/10mm Device Back - 802.11g_chan6_amb_temp_23.7C_liq_temp_21.4C/Zoom Scan (36x36x36)/Cube 0:
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 4.084 V/m; **Power Drift = 0.012 dB**

Averaged SAR: SAR(1g) = 0.147 W/kg; SAR(10g) = 0.0721 W/kg
Maximum value of SAR (interpolated) = 0.296 W/kg

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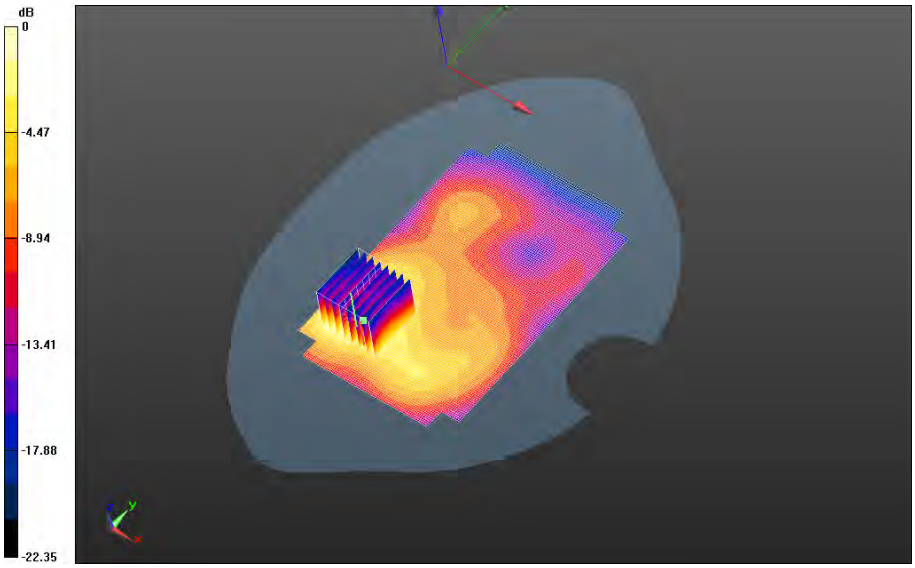

0 dB = 0.192 W/kg = -7.17 dBW/kg

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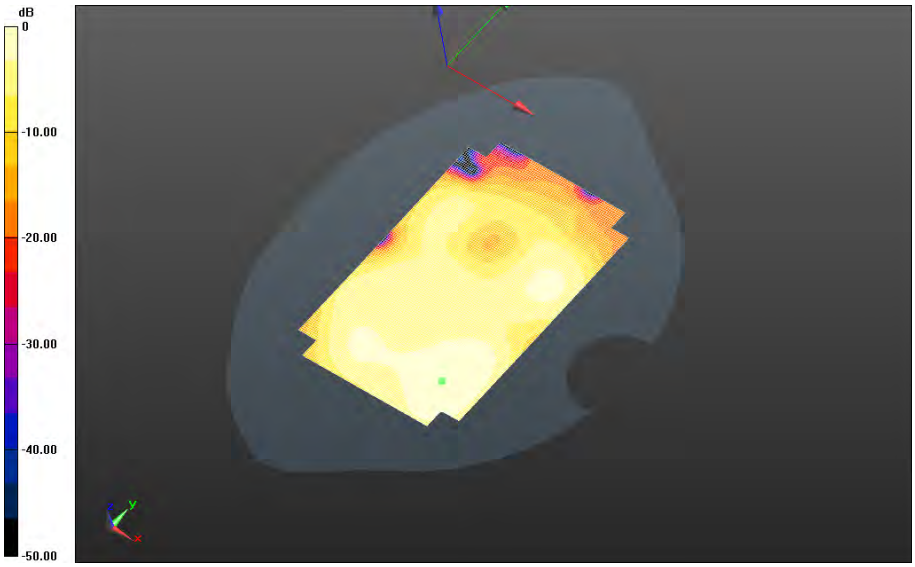
Mobile Hot Spot MSL - 802.11bg/10mm Device Front - 802.11g_chan6_amb_temp_23.5C_liq_temp_21.4C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 2.479 V/m; **Power Drift = 0.376 dB**

Fast SAR: SAR(1g) = 0.0340 W/kg; SAR(10g) = 0.0193 W/kg
Maximum value of SAR (interpolated) = 0.0418 W/kg



0 dB = 0.0418 W/kg = -13.79 dBW/kg

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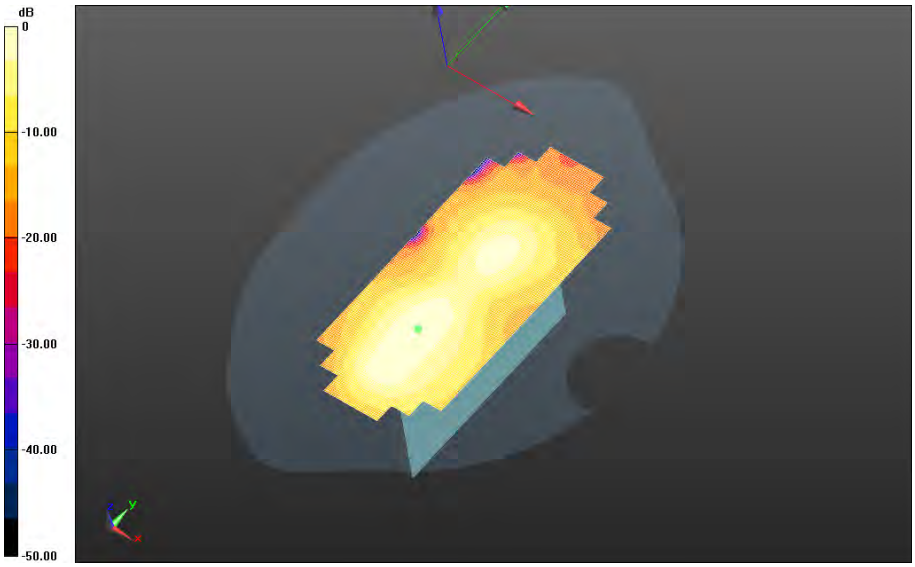
Mobile Hot Spot MSL - 802.11bg/10mm Device Left - 802.11g_chan6_amb_temp_23.6C_liq_temp_21.3C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 3.426 V/m; **Power Drift = 0.101 dB**

Fast SAR: SAR(1g) = 0.0541 W/kg; SAR(10g) = 0.0285 W/kg
Maximum value of SAR (interpolated) = 0.0691 W/kg



0 dB = 0.0691 W/kg = -11.61 dBW/kg

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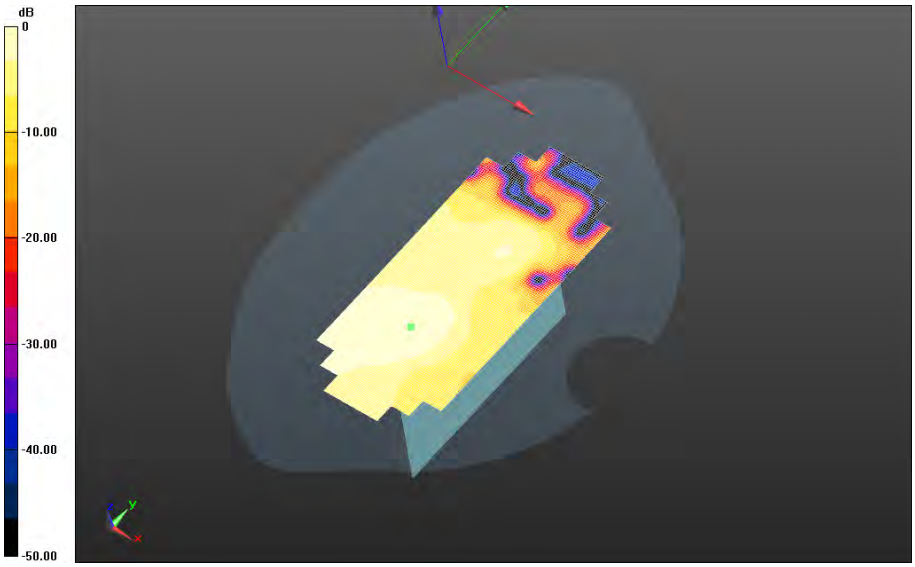
Mobile Hot Spot MSL - 802.11bg/10mm Device Right - 802.11g_chan6_amb_temp_23.6C_liq_temp_21.3C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 1.427 V/m; **Power Drift = 0.361 dB**

Fast SAR: SAR(1g) = 0.0121 W/kg; SAR(10g) = 0.00669 W/kg
Maximum value of SAR (interpolated) = 0.0148 W/kg



0 dB = 0.0148 W/kg = -18.30 dBW/kg

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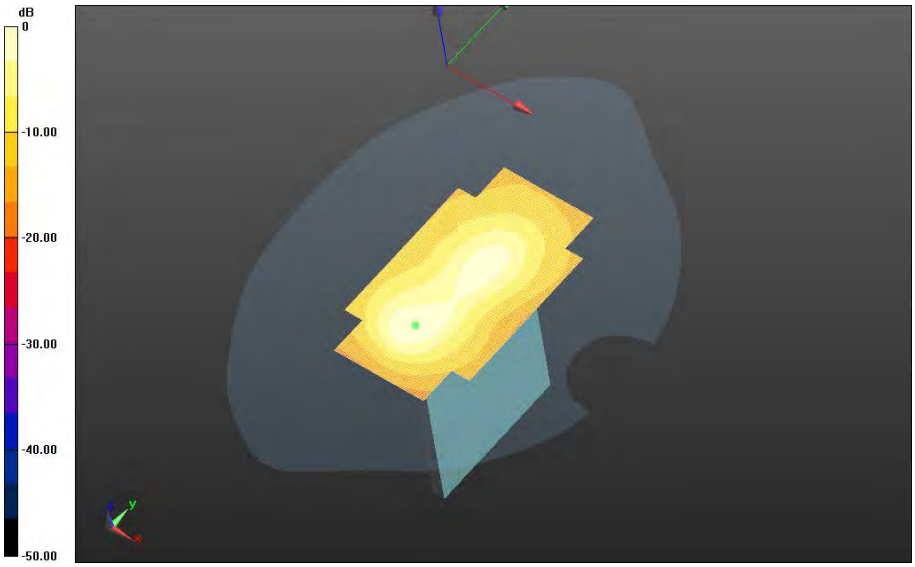
Mobile Hot Spot MSL - 802.11bg/10mm Device Top - 802.11g_chan6_amb_temp_23.7C_liq_temp_21.4C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 5.863 V/m; **Power Drift = -0.006 dB**

Fast SAR: SAR(1g) = 0.0836 W/kg; SAR(10g) = 0.0401 W/kg
Maximum value of SAR (interpolated) = 0.109 W/kg



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

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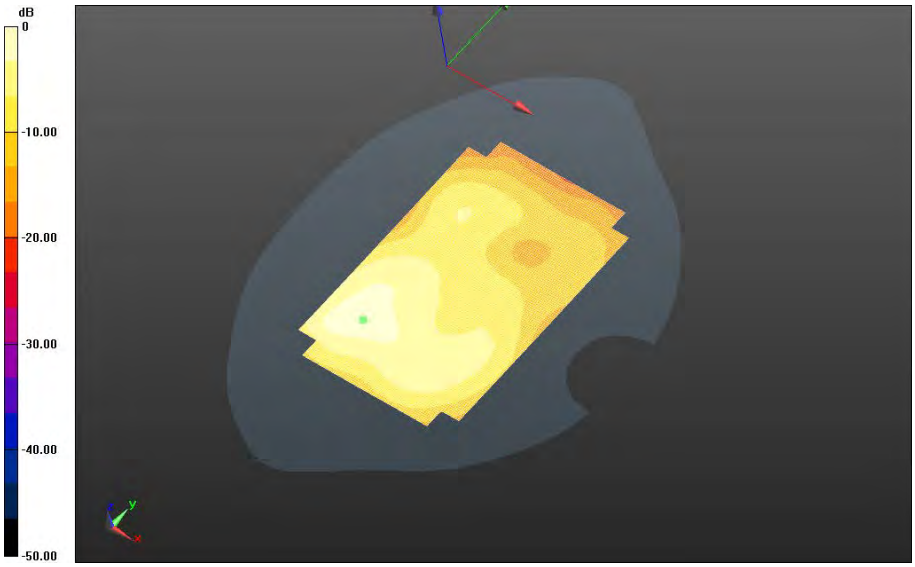
Mobile Hot Spot MSL - 802.11bg/10mm Device Back - 802.11b_chan1_amb_temp_23.7C_liq_temp_21.4C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 3.924 V/m; **Power Drift = 0.450 dB**

Fast SAR: SAR(1g) = 0.120 W/kg; SAR(10g) = 0.0604 W/kg
Maximum value of SAR (interpolated) = 0.160 W/kg



0 dB = 0.160 W/kg = -7.96 dBW/kg

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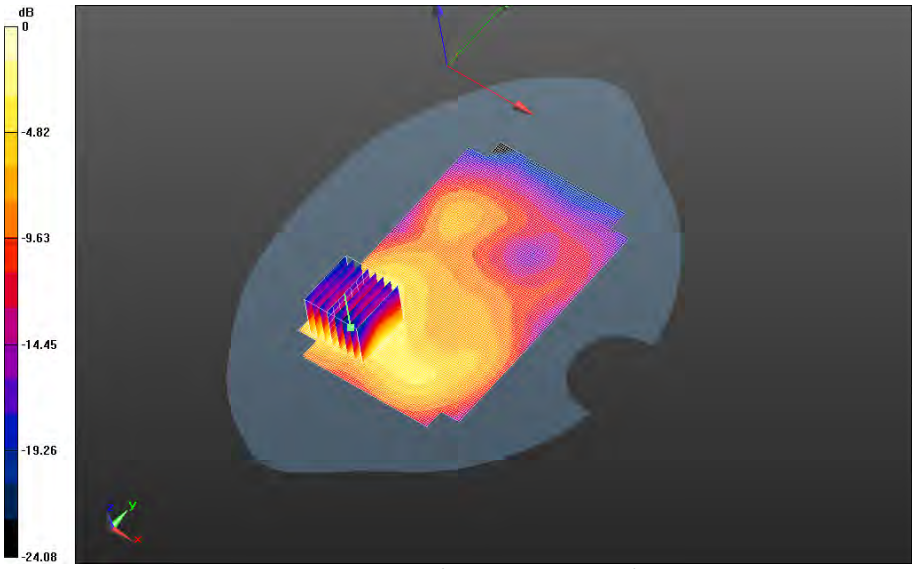
Mobile Hot Spot MSL - 802.11bg/10mm Device Back - 802.11b_chan6_amb_temp_23.4C_liq_temp_21.4C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 3.756 V/m; **Power Drift = -0.147 dB**

Fast SAR: SAR(1g) = 0.105 W/kg; SAR(10g) = 0.0569 W/kg
Maximum value of SAR (interpolated) = 0.135 W/kg

Mobile Hot Spot MSL - 802.11bg/10mm Device Back - 802.11b_chan6_amb_temp_23.4C_liq_temp_21.4C/Zoom Scan (36x36x36)/Cube 0:
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 3.756 V/m; **Power Drift = -0.147 dB**

Averaged SAR: SAR(1g) = 0.121 W/kg; SAR(10g) = 0.0595 W/kg
Maximum value of SAR (interpolated) = 0.249 W/kg



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

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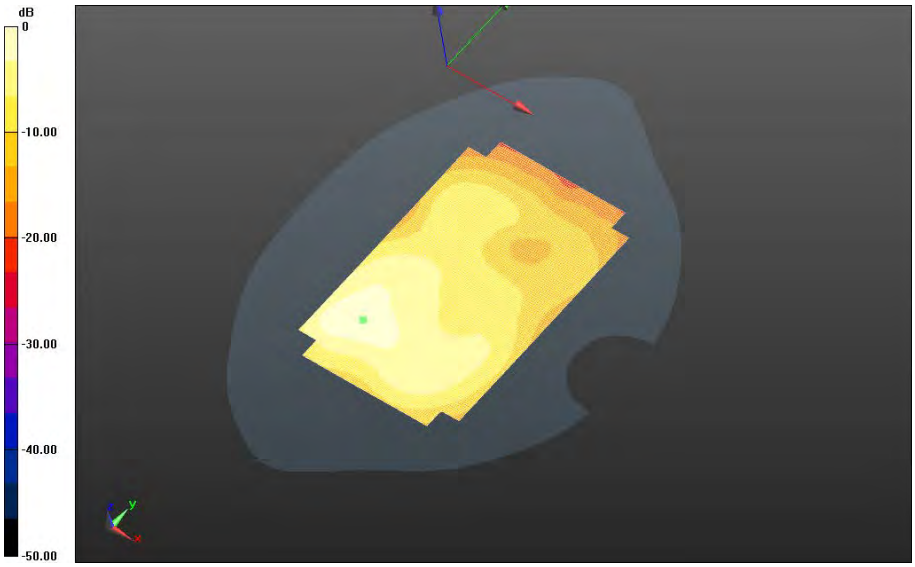
Mobile Hot Spot MSL - 802.11bg/10mm Device Back - 802.11b_chan11_amb_temp_23.7C_liq_temp_21.4C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 3.704 V/m; **Power Drift = 0.119 dB**

Fast SAR: SAR(1g) = 0.107 W/kg; SAR(10g) = 0.0546 W/kg
Maximum value of SAR (interpolated) = 0.141 W/kg



0 dB = 0.141 W/kg = -8.51 dBW/kg

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Bluetooth

Date: 11/20/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFEDD1D

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 = 1.990 S/m; ε_r = 52.763; 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 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Mobile Hot Spot MSL - BT/10mm Device Back - Bluetooth_chan39_amb_temp_23.0C_liq_temp_21.7C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 1.772 V/m; **Power Drift = 0.295 dB**

Fast SAR: SAR(1g) = 0.0212 W/kg; SAR(10g) = 0.0109 W/kg
Maximum value of SAR (interpolated) = 0.0286 W/kg

Mobile Hot Spot MSL - BT/10mm Device Back - Bluetooth_chan39_amb_temp_23.0C_liq_temp_21.7C/Zoom Scan (36x36x36)/Cube 0:
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 1.772 V/m; **Power Drift = 0.295 dB**

Averaged SAR: SAR(1g) = 0.0221 W/kg; SAR(10g) = 0.0109 W/kg
Maximum value of SAR (interpolated) = 0.0449 W/kg

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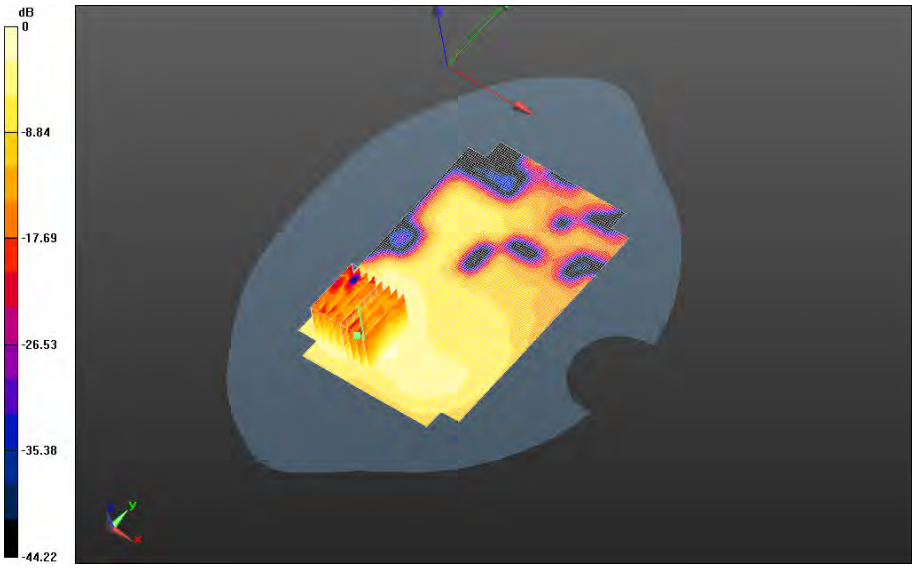

0 dB = 0.0285 W/kg = -15.45 dBW/kg

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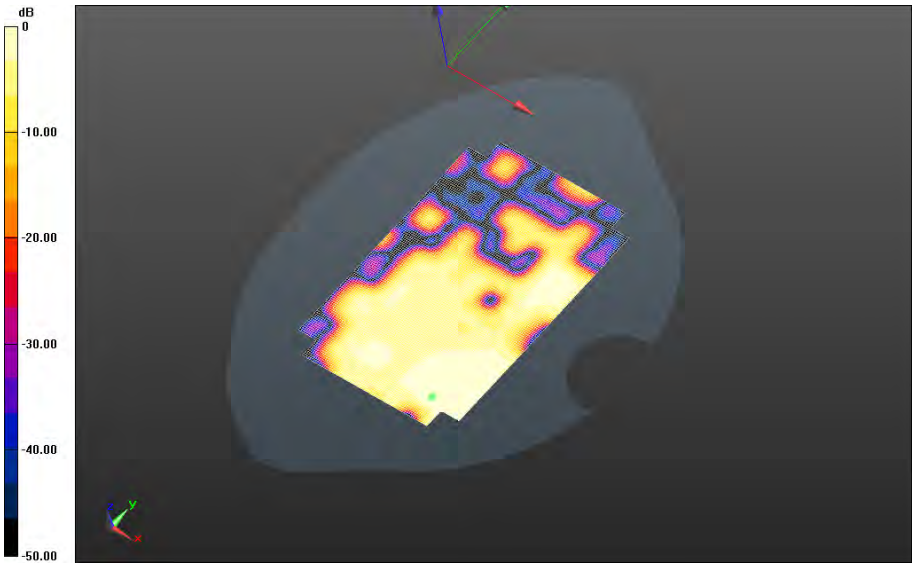
Mobile Hot Spot MSL - BT/10mm Device Front - Bluetooth_chan39_amb_temp_22.9C_liq_temp_21.7C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 0.924 V/m; **Power Drift = -0.145 dB**

Fast SAR: SAR(1g) = 0.00441 W/kg; SAR(10g) = 0.00253 W/kg
Maximum value of SAR (interpolated) = 0.00560 W/kg



0 dB = 0.00560 W/kg = -22.52 dBW/kg

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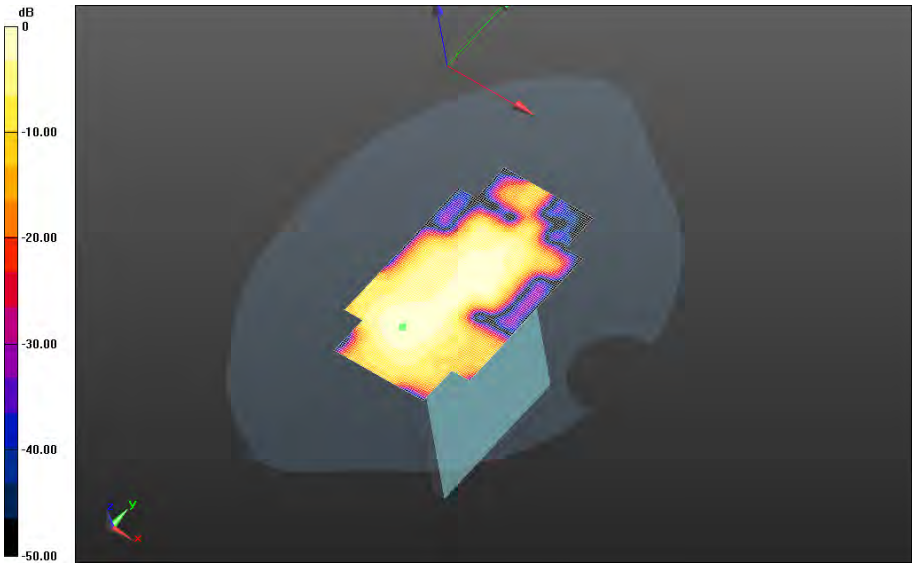
Mobile Hot Spot MSL - BT/10mm Device Top - Bluetooth_chan39_amb_temp_23.4C_liq_temp_21.9C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 1.917 V/m; **Power Drift = 0.047 dB**

Fast SAR: SAR(1g) = 0.00813 W/kg; SAR(10g) = 0.00416 W/kg
Maximum value of SAR (interpolated) = 0.0105 W/kg



0 dB = 0.0105 W/kg = -19.79 dBW/kg

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802.11a

Date: 11/25/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFEDD1D

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 = 5.569 S/m; ε_r = 46.283; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF: (4.06,4.06,4.06); Calibrated: 11/10/2014;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Mobile Hot Spot MSL - 802.11a 5200 MHz/10mm Device Back - 802.11a_chan36_low_band_Amb_Temp_23.7C_Liquid_Temp_21.9C/Area Scan (181x241x1):
Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 2.225 V/m; **Power Drift = 0.529 dB**

Mobile Hot Spot MSL - 802.11a 5200 MHz/10mm Device Back - 802.11a_chan36_low_band_Amb_Temp_23.7C_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 = 2.225 V/m; **Power Drift = 0.529 dB**

Averaged SAR: SAR(1g) = 0.586 W/kg; SAR(10g) = 0.202 W/kg
Maximum value of SAR (interpolated) = 2.19 W/kg

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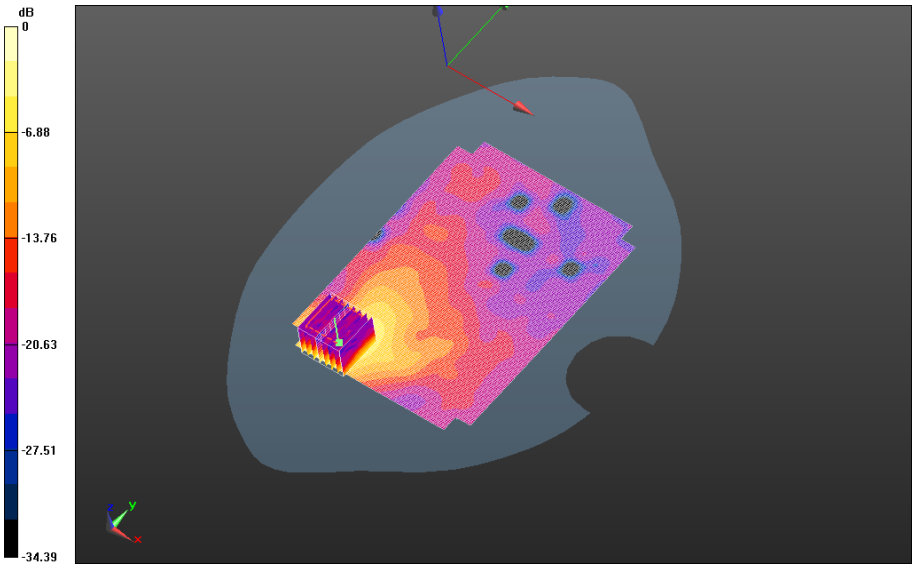

0 dB = 1.13 W/kg = 0.53 dBW/kg

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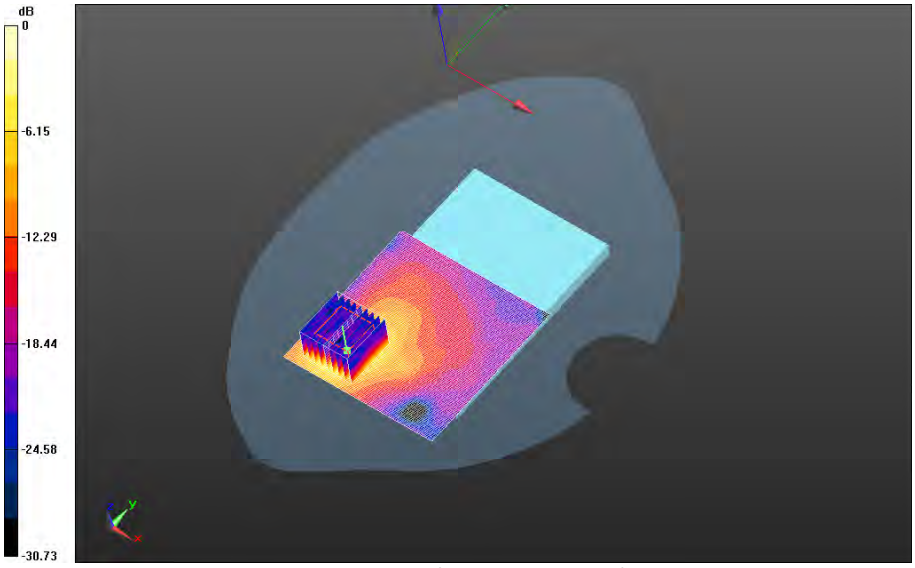
Mobile Hot Spot MSL - 802.11a 5200 MHz/10mm Device Back - 802.11a_chan48_low_band_Amb_Temp_23.6C_Liquid_Temp_21.9C/Area Scan (101x101x1):
Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 2.241 V/m; **Power Drift = -0.175 dB**

Mobile Hot Spot MSL - 802.11a 5200 MHz/10mm Device Back - 802.11a_chan48_low_band_Amb_Temp_23.6C_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 = 2.241 V/m; **Power Drift = -0.175 dB**

Averaged SAR: SAR(1g) = 0.737 W/kg; SAR(10g) = 0.250 W/kg
Maximum value of SAR (interpolated) = 2.78 W/kg



0 dB = 1.41 W/kg = 1.49 dBW/kg

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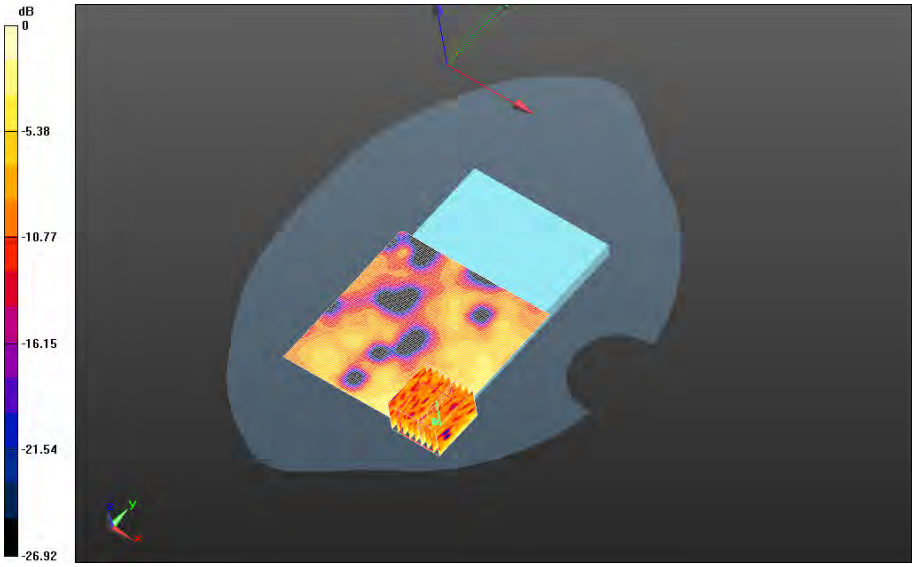
Mobile Hot Spot MSL - 802.11a 5200 MHz/10mm Device Front - 802.11a_chan48_low_band_Amb_Temp_23.6C_Liquid_Temp_21.9C/Area Scan (101x101x1):
Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 1.878 V/m; **Power Drift = 0.185 dB**

Mobile Hot Spot MSL - 802.11a 5200 MHz/10mm Device Front - 802.11a_chan48_low_band_Amb_Temp_23.6C_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 = 1.878 V/m; **Power Drift = 0.185 dB**

Averaged SAR: SAR(1g) = 0.0302 W/kg; SAR(10g) = 0.0161 W/kg
Maximum value of SAR (interpolated) = 0.150 W/kg



0 dB = 0.0605 W/kg = -12.18 dBW/kg

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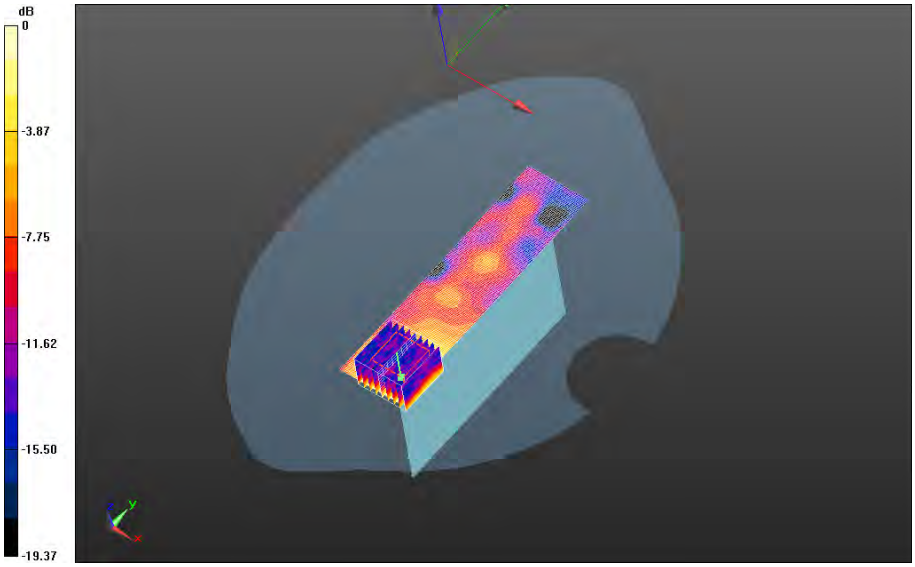
Mobile Hot Spot MSL - 802.11a 5200 MHz/10mm Device Left - 802.11a_chan48_low_band_Amb_Temp_23.6C_Liquid_Temp_21.9C/Area Scan (181x241x1):
Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 2.700 V/m; **Power Drift = 0.483 dB**

Mobile Hot Spot MSL - 802.11a 5200 MHz/10mm Device Left - 802.11a_chan48_low_band_Amb_Temp_23.6C_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 = 2.700 V/m; **Power Drift = 0.483 dB**

Averaged SAR: SAR(1g) = 0.0949 W/kg; SAR(10g) = 0.0437 W/kg
Maximum value of SAR (interpolated) = 0.330 W/kg



0 dB = 0.166 W/kg = -7.80 dBW/kg

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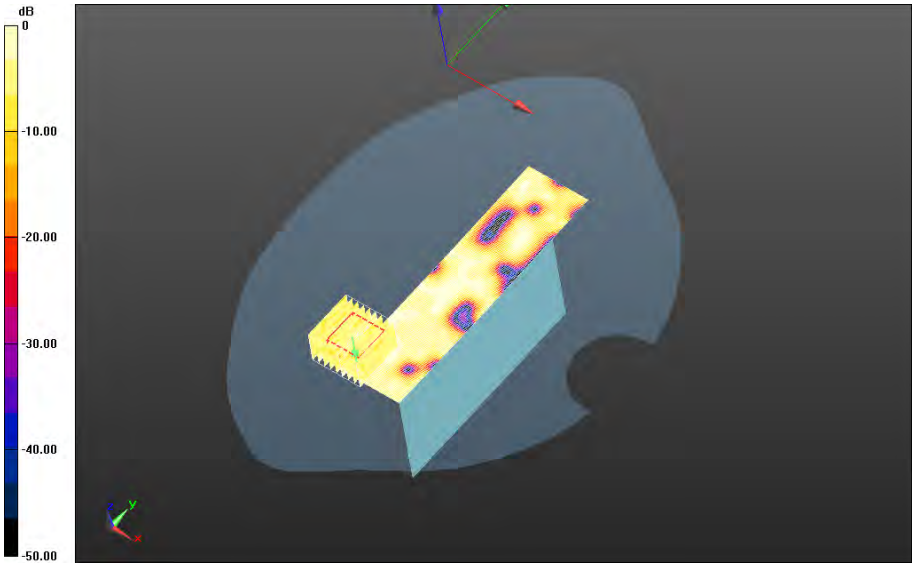
Mobile Hot Spot MSL - 802.11a 5200 MHz/10mm Device Right - 802.11a_chan48_low_band_Amb_Temp_23.6C_Liquid_Temp_21.9C/Area Scan (181x241x1):
Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 1.646 V/m; **Power Drift = 0.459 dB**

Mobile Hot Spot MSL - 802.11a 5200 MHz/10mm Device Right - 802.11a_chan48_low_band_Amb_Temp_23.6C_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 = 1.646 V/m; **Power Drift = 0.459 dB**

Averaged SAR: SAR(1g) = 0.0112 W/kg; SAR(10g) = 0.00688 W/kg
Maximum value of SAR (interpolated) = 0.113 W/kg



0 dB = 0.0216 W/kg = -16.66 dBW/kg

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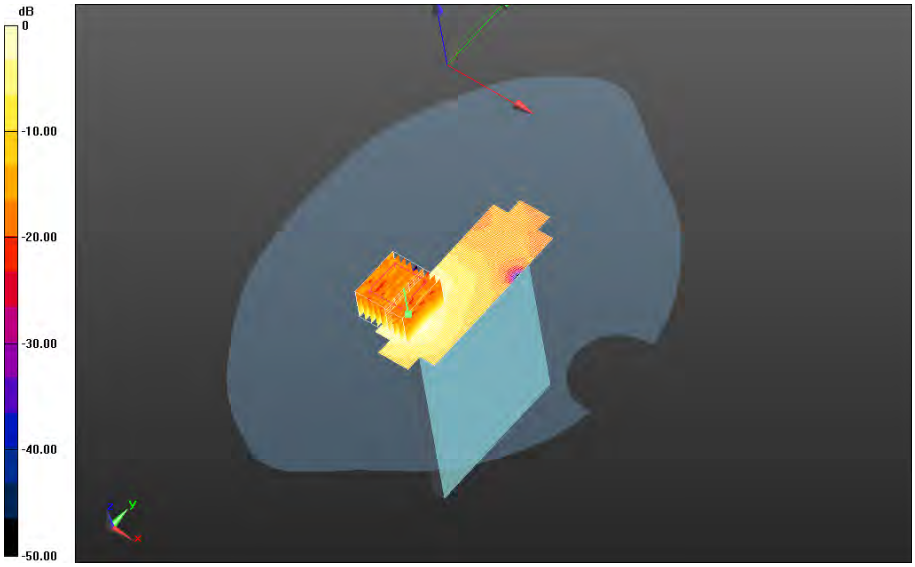
Mobile Hot Spot MSL - 802.11a 5200 MHz/10mm Device Top - 802.11a_chan48_low_band_Amb_Temp_23.6C_Liquid_Temp_21.9C/Area Scan (181x241x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 3.988 V/m; **Power Drift = 0.113 dB**

Mobile Hot Spot MSL - 802.11a 5200 MHz/10mm Device Top - 802.11a_chan48_low_band_Amb_Temp_23.6C_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 = 3.988 V/m; **Power Drift = 0.113 dB**

Averaged SAR: SAR(1g) = 0.215 W/kg; SAR(10g) = 0.0923 W/kg
Maximum value of SAR (interpolated) = 0.791 W/kg



0 dB = 0.390 W/kg = -4.09 dBW/kg

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Date: 11/25/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFEDD1D

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 = 6.381 S/m; ε_r = 45.288; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF: (3.86,3.86,3.86); Calibrated: 11/10/2014;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Mobile Hot Spot MSL - 802.11a 5800 MHz/10mm Device Back - 802.11a_chan149_upper_bandII_Amb_Temp_23.6C_Liquid_Temp_21.8C/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 1.954 V/m; **Power Drift = 0.251 dB**

Mobile Hot Spot MSL - 802.11a 5800 MHz/10mm Device Back - 802.11a_chan149_upper_bandII_Amb_Temp_23.6C_Liquid_Temp_21.8C/Zoom Scan (41x41x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 1.954 V/m; **Power Drift = 0.251 dB**

Averaged SAR: SAR(1g) = 0.453 W/kg; SAR(10g) = 0.149 W/kg
Maximum value of SAR (interpolated) = 1.91 W/kg

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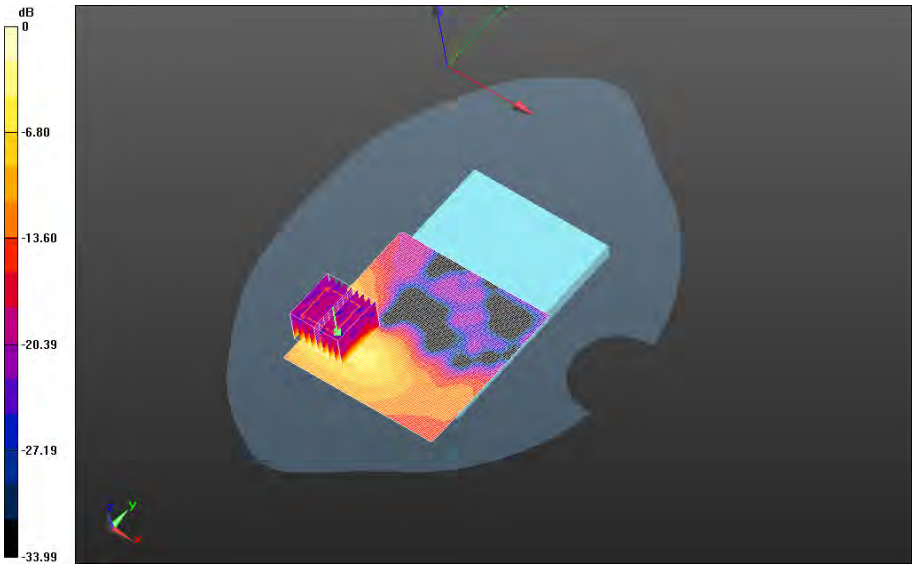

0 dB = 0.895 W/kg = -0.48 dBW/kg

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