APPENDIX C2: SAR DISTRIBUTION PLOTS FOR HOT SPOT CONFIGURATION

This report shall NOT be reproduced except in full without the written consent of BlackBerry RTS
Copyright 2005-2014, BlackBerry RTS, a division of BlackBerry Limited

Date: 12/12/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E5CB6

Configuration: Mobile Hotspot 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 = 5.561 S/m; ε_r = 45.712; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

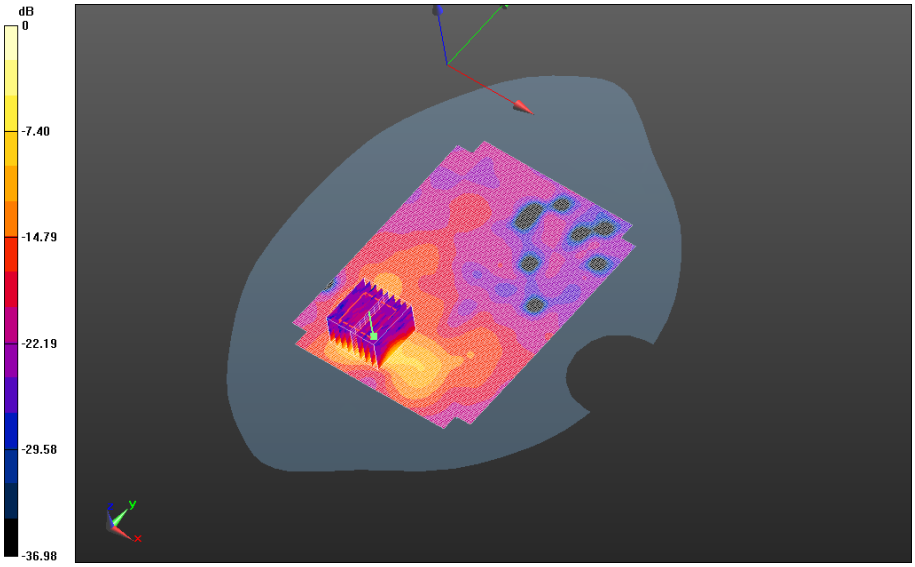
- Probe: EX3DV4 - SN3592; ConvF: (4.06,4.06,4.06); Calibrated: 11/10/2014;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Mobile Hotspot MSL - 802.11a 5200 MHz/10mm Device Back - 802.11a_chan36_low_band_Amb_Temp_24.0C_Liquid_Temp_22.2C/Area Scan (181x241x1):
Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.58 W/kg

Mobile Hotspot MSL - 802.11a 5200 MHz/10mm Device Back - 802.11a_chan36_low_band_Amb_Temp_24.0C_Liquid_Temp_22.2C/Zoom Scan (41x41x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 2.270 V/m; **Power Drift = 0.158 dB**

Averaged SAR: SAR(1g) = 0.727 W/kg; SAR(10g) = 0.212 W/kg
Maximum value of SAR (interpolated) = 2.98 W/kg

This report shall NOT be reproduced except in full without the written consent of BlackBerry RTS
Copyright 2005-2014, BlackBerry RTS, a division of BlackBerry Limited



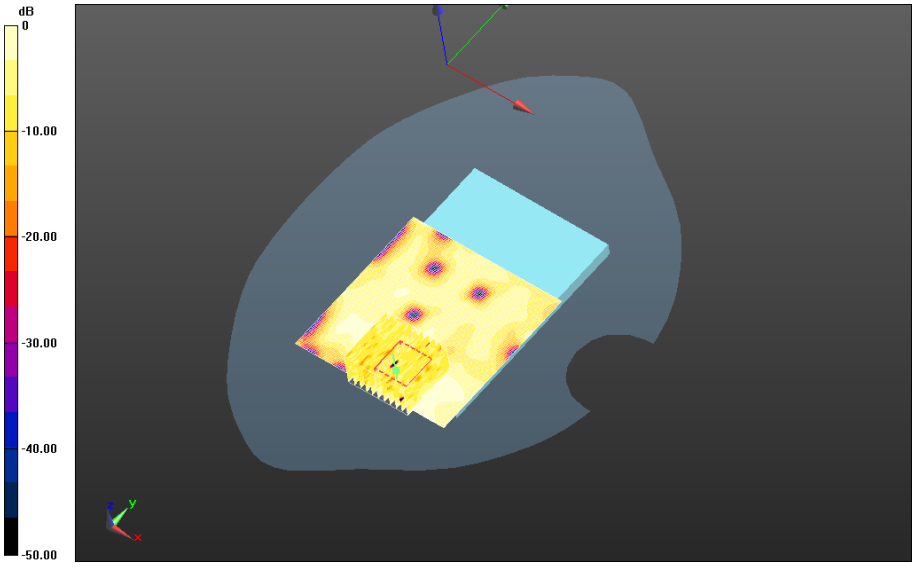
0 dB = 1.46 W/kg = 1.64 dBW/kg

This report shall NOT be reproduced except in full without the written consent of BlackBerry RTS
Copyright 2005-2014, BlackBerry RTS, a division of BlackBerry Limited

Mobile Hotspot MSL - 802.11a 5200 MHz/10mm Device Front - 802.11a_chan36_low_band_Amb_Temp_23.9C_Liquid_Temp_22.1C/Area Scan (101x101x1):
Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.0424 W/kg

Mobile Hotspot MSL - 802.11a 5200 MHz/10mm Device Front - 802.11a_chan36_low_band_Amb_Temp_23.9C_Liquid_Temp_22.1C/Zoom Scan (51x46x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 2.051 V/m; **Power Drift = 0.305 dB**

Averaged SAR: SAR(1g) = 0.0203 W/kg; SAR(10g) = 0.0109 W/kg
Maximum value of SAR (interpolated) = 0.0747 W/kg



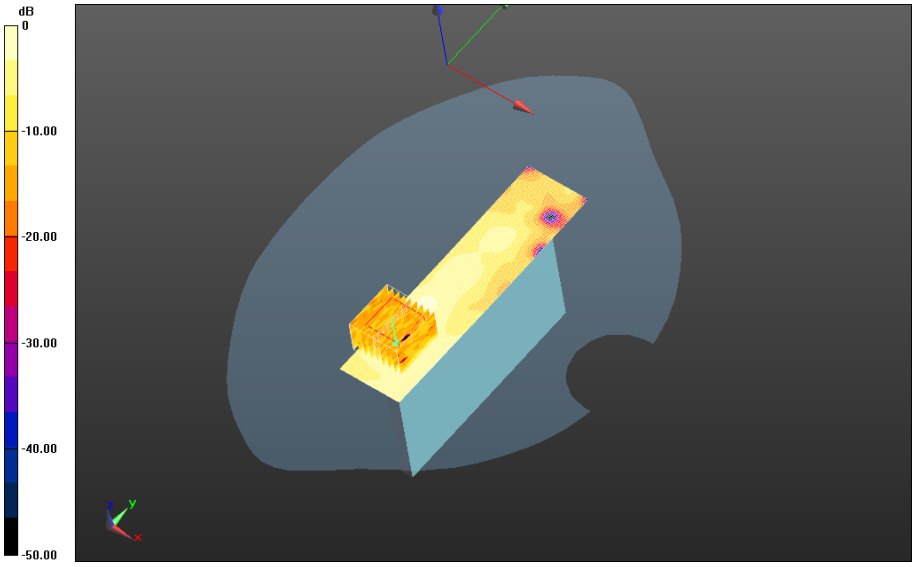
0 dB = 0.0335 W/kg = -14.75 dBW/kg

This report shall NOT be reproduced except in full without the written consent of BlackBerry RTS
Copyright 2005-2014, BlackBerry RTS, a division of BlackBerry Limited

Mobile Hotspot MSL - 802.11a 5200 MHz/10mm Device Left - 802.11a_chan36_low_band_Amb_Temp_23.9C_Liquid_Temp_22.1C/Area Scan (181x241x1):
Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.137 W/kg

Mobile Hotspot MSL - 802.11a 5200 MHz/10mm Device Left - 802.11a_chan36_low_band_Amb_Temp_23.9C_Liquid_Temp_22.1C/Zoom Scan (41x41x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 2.851 V/m; **Power Drift = 0.527 dB**

Averaged SAR: SAR(1g) = 0.0682 W/kg; SAR(10g) = 0.0276 W/kg
Maximum value of SAR (interpolated) = 0.245 W/kg



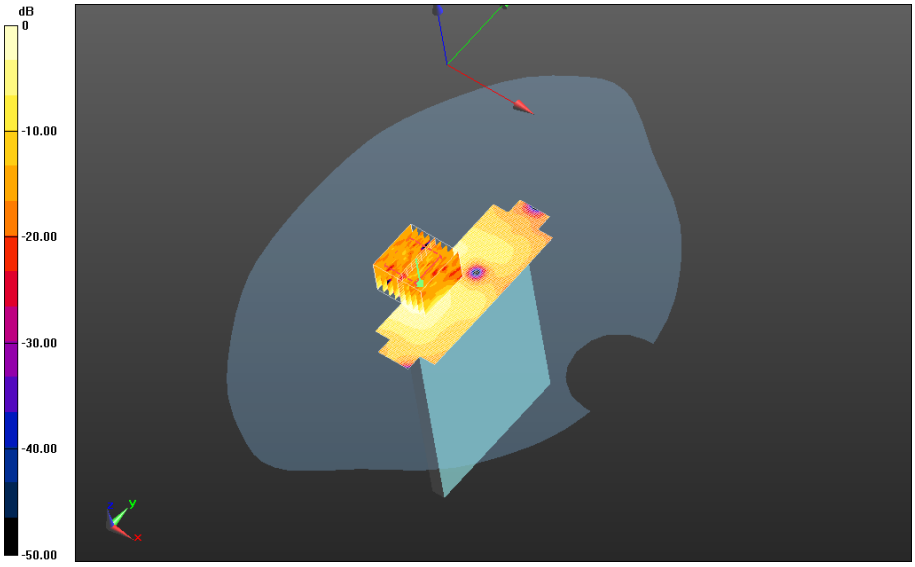
0 dB = 0.132 W/kg = -8.79 dBW/kg

This report shall NOT be reproduced except in full without the written consent of BlackBerry RTS
Copyright 2005-2014, BlackBerry RTS, a division of BlackBerry Limited

Mobile Hotspot MSL - 802.11a 5200 MHz/10mm Device Top - 802.11a_chan36_low_band_Amb_Temp_23.5C_Liquid_Temp_22.0C/Area Scan (181x241x1):
Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.207 W/kg

Mobile Hotspot MSL - 802.11a 5200 MHz/10mm Device Top - 802.11a_chan36_low_band_Amb_Temp_23.5C_Liquid_Temp_22.0C/Zoom Scan (41x41x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 1.831 V/m; **Power Drift = -0.064 dB**

Averaged SAR: SAR(1g) = 0.117 W/kg; SAR(10g) = 0.0439 W/kg
Maximum value of SAR (interpolated) = 0.480 W/kg



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

This report shall NOT be reproduced except in full without the written consent of BlackBerry RTS
Copyright 2005-2014, BlackBerry RTS, a division of BlackBerry Limited

Date: 12/12/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E5CB6

Configuration: Mobile Hotspot MSL - 802.11a 5800 MHz

Communication System: 802.11a (0); Communication System Band: Upper Band; Frequency: 5745 MHz
Medium Parameters used: f=5745 MHz; σ = 6.402 S/m; ε_r = 44.445; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

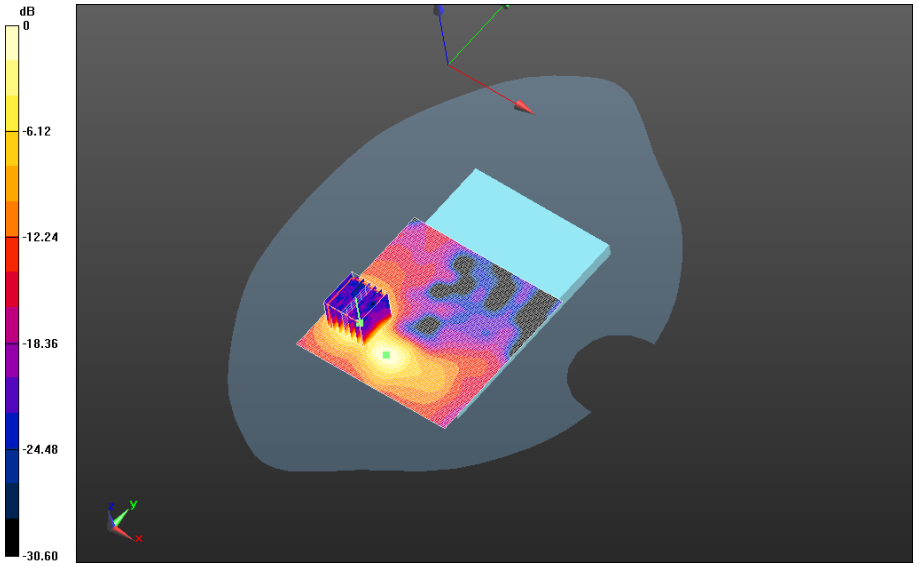
- Probe: EX3DV4 - SN3592; ConvF: (3.86,3.86,3.86); Calibrated: 11/10/2014;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Mobile Hotspot MSL - 802.11a 5800 MHz/10mm Device Back - 802.11a_chan149_upper_bandII_Amb_Temp_23.2C_Liquid_Temp_22.1C/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.07 W/kg

Mobile Hotspot MSL - 802.11a 5800 MHz/10mm Device Back - 802.11a_chan149_upper_bandII_Amb_Temp_23.2C_Liquid_Temp_22.1C/Zoom Scan (31x31x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 1.935 V/m; **Power Drift = -0.029 dB**

Averaged SAR: SAR(1g) = 0.531 W/kg; SAR(10g) = 0.164 W/kg
Maximum value of SAR (interpolated) = 2.44 W/kg

This report shall NOT be reproduced except in full without the written consent of BlackBerry RTS
Copyright 2005-2014, BlackBerry RTS, a division of BlackBerry Limited



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

This report shall NOT be reproduced except in full without the written consent of BlackBerry RTS
Copyright 2005-2014, BlackBerry RTS, a division of BlackBerry Limited