APPENDIX B: SAR DISTRIBUTION PLOTS FOR HEAD CONFIGURATION

Model: RFS121LW

DTM 850

Date: 3/13/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB02A49

Configuration: Right-Hand-Side HSL - DTM 850

Communication System: DTM850 (2slots); Communication System Band: DTM850; Frequency: 836.8 MHz
Medium Parameters used: f=836.8 MHz; σ = 0.891 S/m; ε_r = 40.493; ρ = 1.000 g/cm^3
Phantom section: Right Section

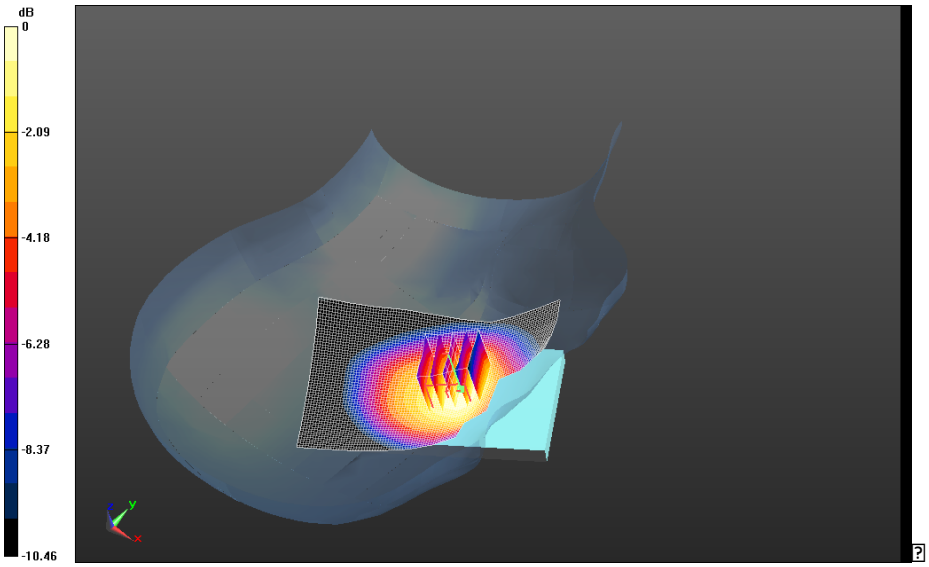
DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.19,6.19,6.19); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Right-Hand-Side HSL - DTM 850/Touch Position - DTM850_chan190_amb_temp_23.2C_liq_temp_20.9C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 10.274 V/m; **Power Drift = -0.067 dB**

Right-Hand-Side HSL - DTM 850/Touch Position - DTM850_chan190_amb_temp_23.2C_liq_temp_20.9C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 10.274 V/m; **Power Drift = -0.067 dB**

Averaged SAR: SAR(1g) = 0.673 W/kg; SAR(10g) = 0.500 W/kg
Maximum value of SAR (interpolated) = 0.822 W/kg

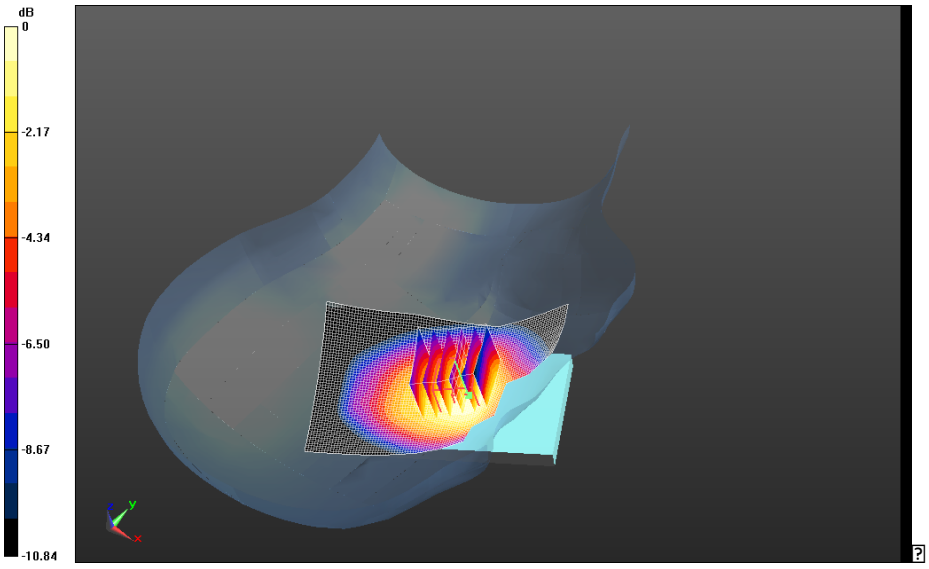


0 dB = 0.733 W/kg = -1.35 dBW/kg

Right-Hand-Side HSL - DTM 850/Touch Position - DTM850_3-Slots_chan128_amb_temp_23.3C_liq_temp_20.9C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.099 V/m; **Power Drift = -0.149 dB**

Right-Hand-Side HSL - DTM 850/Touch Position - DTM850_3-Slots_chan128_amb_temp_23.3C_liq_temp_20.9C/Zoom Scan (26x26x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 12.099 V/m; **Power Drift = -0.149 dB**

Averaged SAR: SAR(1g) = 0.677 W/kg; SAR(10g) = 0.507 W/kg
Maximum value of SAR (interpolated) = 0.833 W/kg

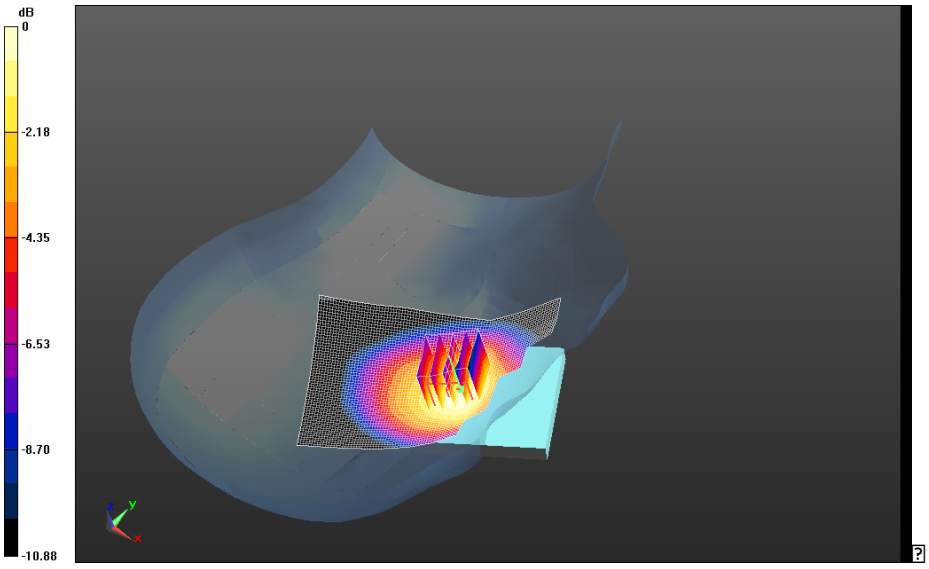


0 dB = 0.733 W/kg = -1.35 dBW/kg

Right-Hand-Side HSL - DTM 850/Touch Position - DTM850_3-Slots_chan190_amb_temp_23.3C_liq_temp_20.9C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 11.705 V/m; **Power Drift = -0.112 dB**

Right-Hand-Side HSL - DTM 850/Touch Position - DTM850_3-Slots_chan190_amb_temp_23.3C_liq_temp_20.9C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 11.705 V/m; **Power Drift = -0.112 dB**

Averaged SAR: SAR(1g) = 0.817 W/kg; SAR(10g) = 0.603 W/kg
Maximum value of SAR (interpolated) = 0.995 W/kg

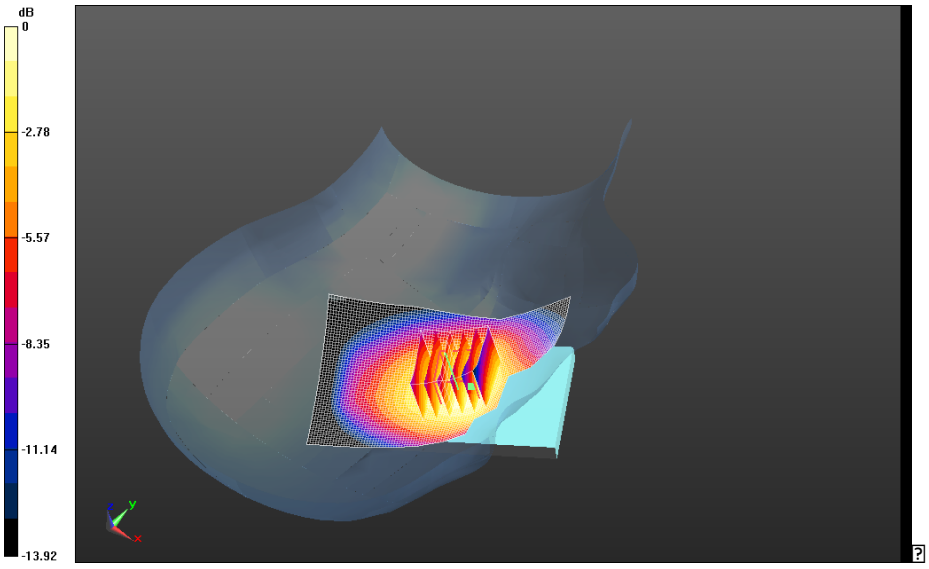


0 dB = 0.732 W/kg = -1.35 dBW/kg

Right-Hand-Side HSL - DTM 850/Touch Position - DTM850_3-Slots_chan190_amb_temp_23.3C_liq_temp_20.9C_2nd Scan/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.527 V/m; **Power Drift = -0.217 dB**

Right-Hand-Side HSL - DTM 850/Touch Position - DTM850_3-Slots_chan190_amb_temp_23.3C_liq_temp_20.9C_2nd Scan/Zoom Scan (26x26x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 12.527 V/m; **Power Drift = -0.217 dB**

Averaged SAR: SAR(1g) = 0.722 W/kg; SAR(10g) = 0.538 W/kg
Maximum value of SAR (interpolated) = 0.888 W/kg

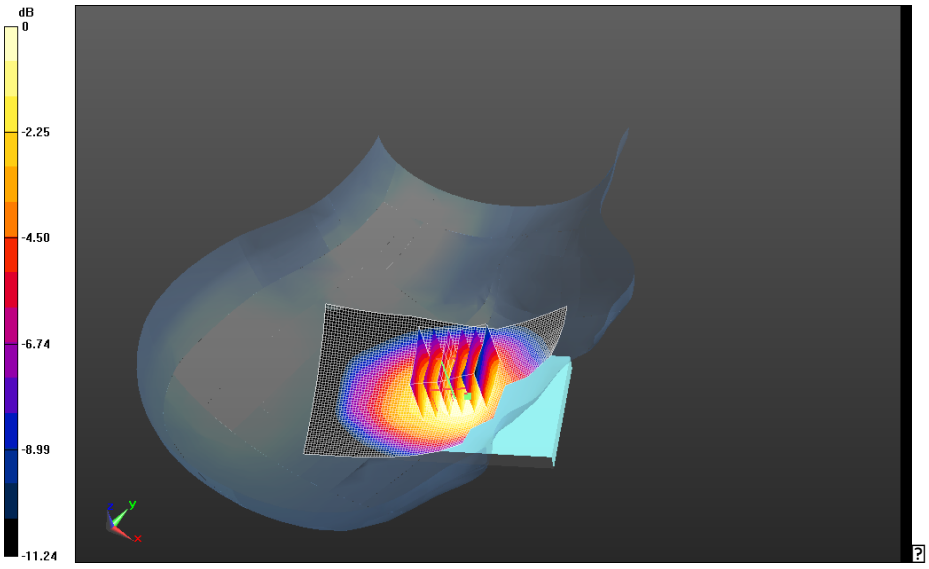


0 dB = 0.889 W/kg = -0.51 dBW/kg

Right-Hand-Side HSL - DTM 850/Touch Position - DTM850_3-Slots_chan251_amb_temp_23.3C_liq_temp_20.9C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.505 V/m; **Power Drift = 0.051 dB**

Right-Hand-Side HSL - DTM 850/Touch Position - DTM850_3-Slots_chan251_amb_temp_23.3C_liq_temp_20.9C/Zoom Scan (26x26x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 12.505 V/m; **Power Drift = 0.051 dB**

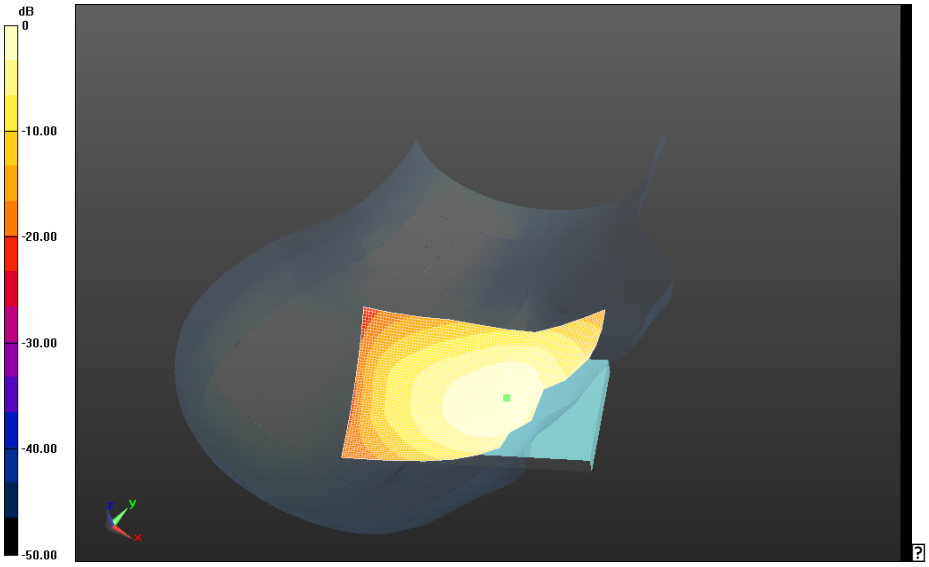
Averaged SAR: SAR(1g) = 0.728 W/kg; SAR(10g) = 0.543 W/kg
Maximum value of SAR (interpolated) = 0.890 W/kg



0 dB = 0.788 W/kg = -1.03 dBW/kg

Right-Hand-Side HSL - EDGE 850/Touch Position - EDGE850_4-Slots_chan190_amb_temp_23.3C_liq_temp_20.9C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 10.159 V/m; **Power Drift = 0.050 dB**

Fast SAR: SAR(1g) = 0.576 W/kg; SAR(10g) = 0.389 W/kg
Maximum value of SAR (interpolated) = 0.662 W/kg



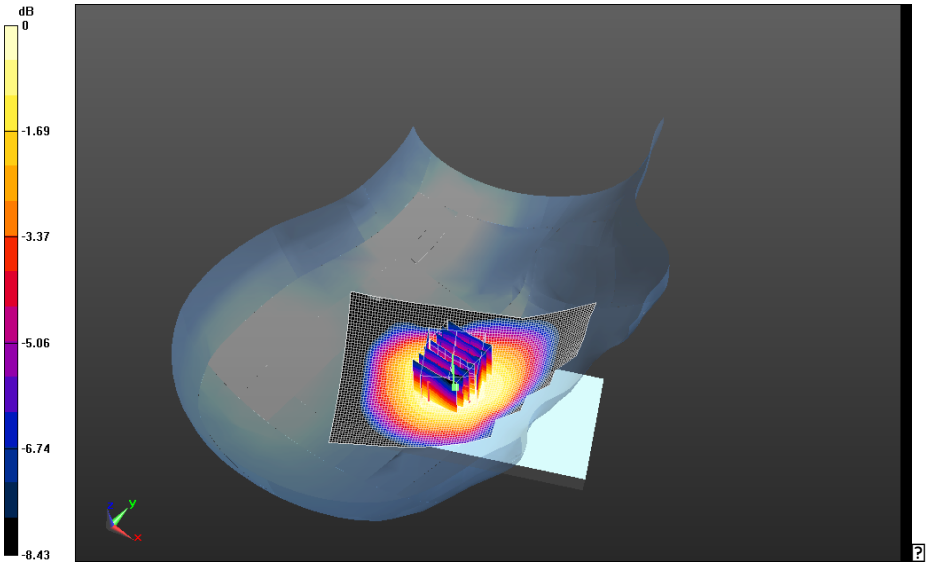
0 dB = 0.783 W/kg = -1.06 dBW/kg

Right-Hand-Side HSL - DTM 850/Tilt Position - DTM850_chan190_amb_temp_23.2C_liq_temp_20.9C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 16.903 V/m; **Power Drift = -0.301 dB**

Right-Hand-Side HSL - DTM 850/Tilt Position - DTM850_chan190_amb_temp_23.2C_liq_temp_20.9C/Zoom Scan (31x31x36)/Cube 0:
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 16.903 V/m; **Power Drift = -0.301 dB**

Averaged SAR: SAR(1g) = 0.403 W/kg; SAR(10g) = 0.305 W/kg
Maximum value of SAR (interpolated) = 0.496 W/kg
Right-Hand-Side HSL - DTM 850/Tilt Position - DTM850_chan190_amb_temp_23.2C_liq_temp_20.9C/Zoom Scan 2 (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 16.903 V/m; **Power Drift = -0.292 dB**

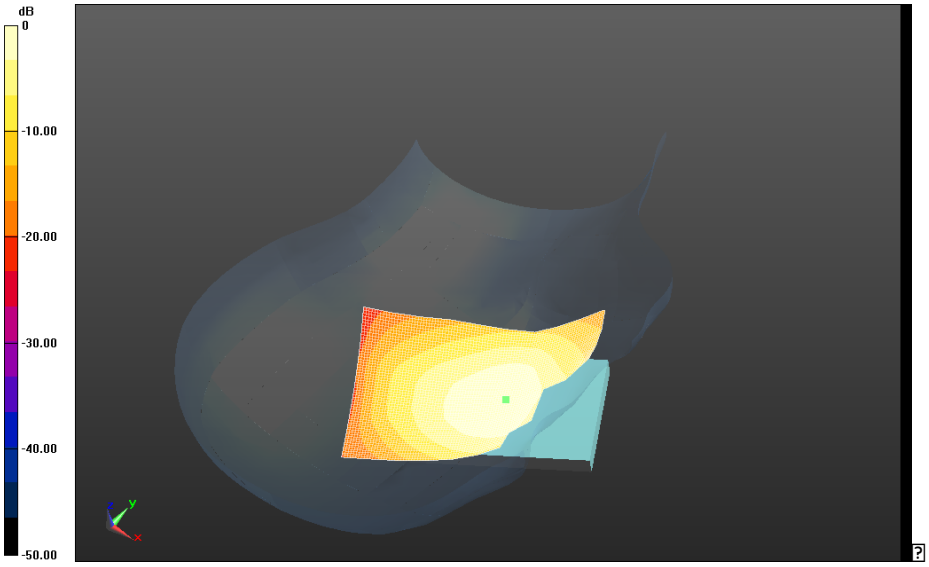
Averaged SAR: SAR(1g) = 0.404 W/kg; SAR(10g) = 0.306 W/kg
Maximum value of SAR (interpolated) = 0.499 W/kg



0 dB = 0.662 W/kg = -1.79 dBW/kg

Right-Hand-Side HSL - DTM 850/Touch Position - GSM850_chan190_amb_temp_23.2C_liq_temp_20.9C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 9.791 V/m; **Power Drift = -0.129 dB**

Fast SAR: SAR(1g) = 0.585 W/kg; SAR(10g) = 0.394 W/kg
Maximum value of SAR (interpolated) = 0.674 W/kg



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

Date: 3/13/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB02A49

Configuration: Left-Hand-Side HSL - DTM 850

Communication System: DTM850 (2slots); Communication System Band: DTM850; Frequency: 836.8 MHz
Medium Parameters used: f=836.8 MHz; σ = 0.891 S/m; ε_r = 40.493; ρ = 1.000 g/cm^3
Phantom section: Left Section

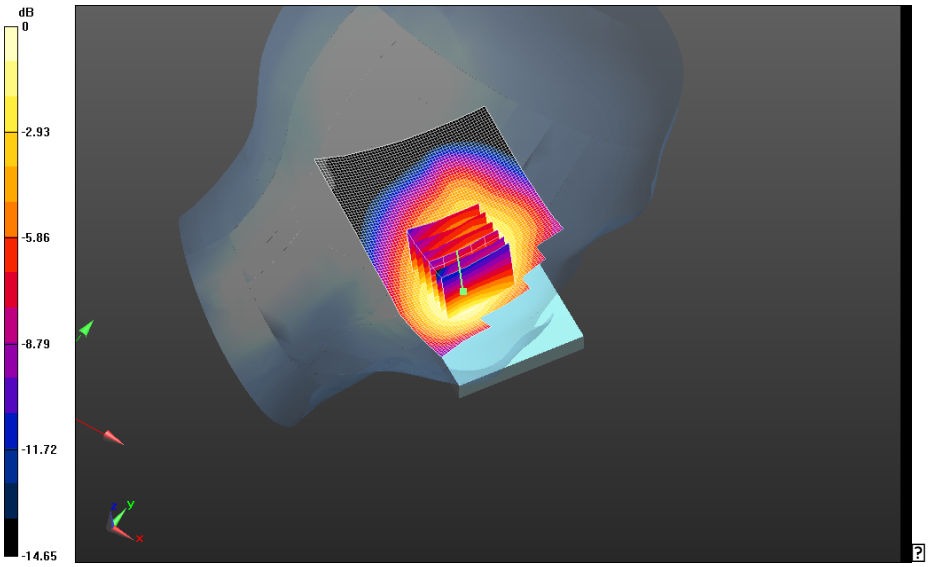
DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.19,6.19,6.19); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Left-Hand-Side HSL - DTM 850/Touch Position - DTM850_chan190_amb_temp_23.2C_liq_temp_20.9C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 10.209 V/m; **Power Drift = -0.346 dB**

Left-Hand-Side HSL - DTM 850/Touch Position - DTM850_chan190_amb_temp_23.2C_liq_temp_20.9C/Zoom Scan (26x26x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 10.209 V/m; **Power Drift = -0.346 dB**

Averaged SAR: SAR(1g) = 0.620 W/kg; SAR(10g) = 0.444 W/kg
Maximum value of SAR (interpolated) = 0.883 W/kg

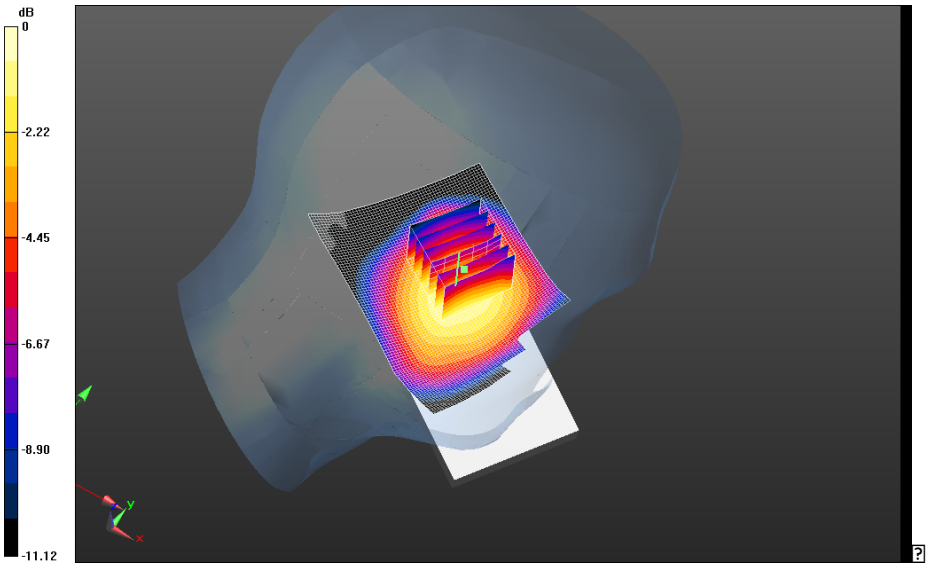


0 dB = 0.696 W/kg = -1.57 dBW/kg

Left-Hand-Side HSL - DTM 850/Tilt Position - DTM850_chan190_amb_temp_23.2C_liq_temp_20.9C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 15.516 V/m; **Power Drift = 0.183 dB**

Left-Hand-Side HSL - DTM 850/Tilt Position - DTM850_chan190_amb_temp_23.2C_liq_temp_20.9C/Zoom Scan (26x26x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 15.516 V/m; **Power Drift = 0.183 dB**

Averaged SAR: SAR(1g) = 0.406 W/kg; SAR(10g) = 0.298 W/kg
Maximum value of SAR (interpolated) = 0.525 W/kg

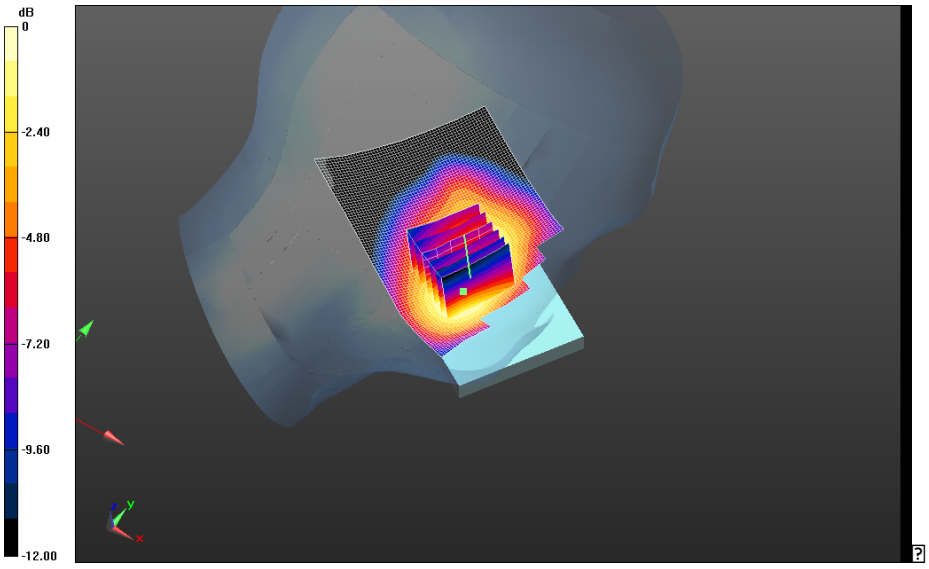


0 dB = 0.696 W/kg = -1.57 dBW/kg

Left-Hand-Side HSL - DTM 850/Touch Position - GSM850_chan190_amb_temp_23.5C_liq_temp_20.9C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.819 V/m; **Power Drift = -0.00953 dB**

Left-Hand-Side HSL - DTM 850/Touch Position - GSM850_chan190_amb_temp_23.5C_liq_temp_20.9C/Zoom Scan (26x26x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 8.819 V/m; **Power Drift = -0.00953 dB**

Averaged SAR: SAR(1g) = 0.515 W/kg; SAR(10g) = 0.366 W/kg
Maximum value of SAR (interpolated) = 0.731 W/kg



0 dB = 0.449 W/kg = -3.48 dBW/kg

UMTS Band V

Date: 3/19/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB02A49

Configuration: Right-Hand-Side HSL - UMTS Band V

Communication System: WCDMA FDD V; Communication System Band: UMTS band V;
Frequency: 836.4 MHz
Medium Parameters used: f=836.4 MHz; σ = 0.933 S/m; ε_r = 43.191; ρ = 1.000 g/cm^3
Phantom section: Right Section

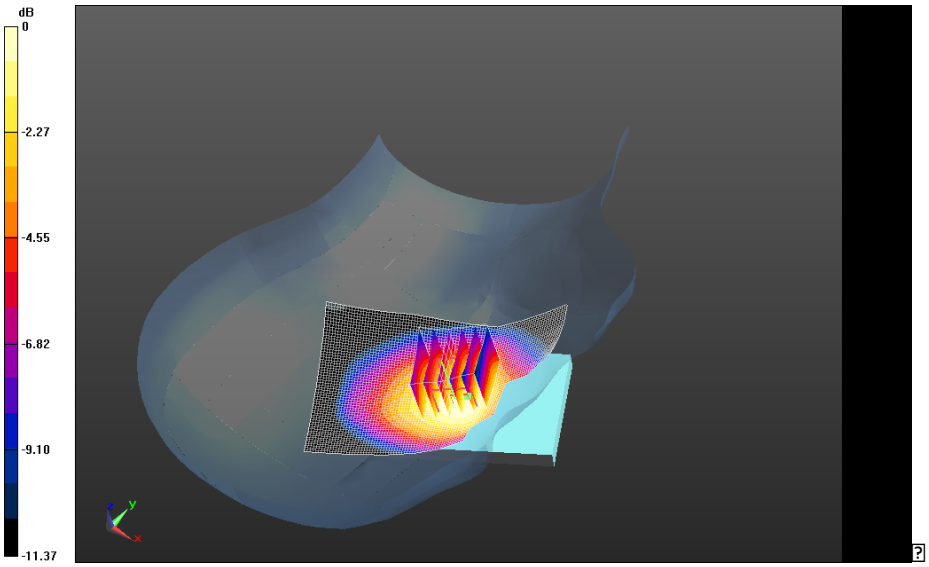
DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.19,6.19,6.19); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Right-Hand-Side HSL - UMTS Band V/Touch Position - UMTS_Band_V_chan4182_amb_temp_23.4C_liq_temp_21.3C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 10.480 V/m; **Power Drift = -0.081 dB**

Right-Hand-Side HSL - UMTS Band V/Touch Position - UMTS_Band_V_chan4182_amb_temp_23.4C_liq_temp_21.3C/Zoom Scan (26x26x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 10.480 V/m; **Power Drift = -0.081 dB**

Averaged SAR: SAR(1g) = 0.531 W/kg; SAR(10g) = 0.395 W/kg
Maximum value of SAR (interpolated) = 0.654 W/kg



0 dB = 0.581 W/kg = -2.36 dBW/kg

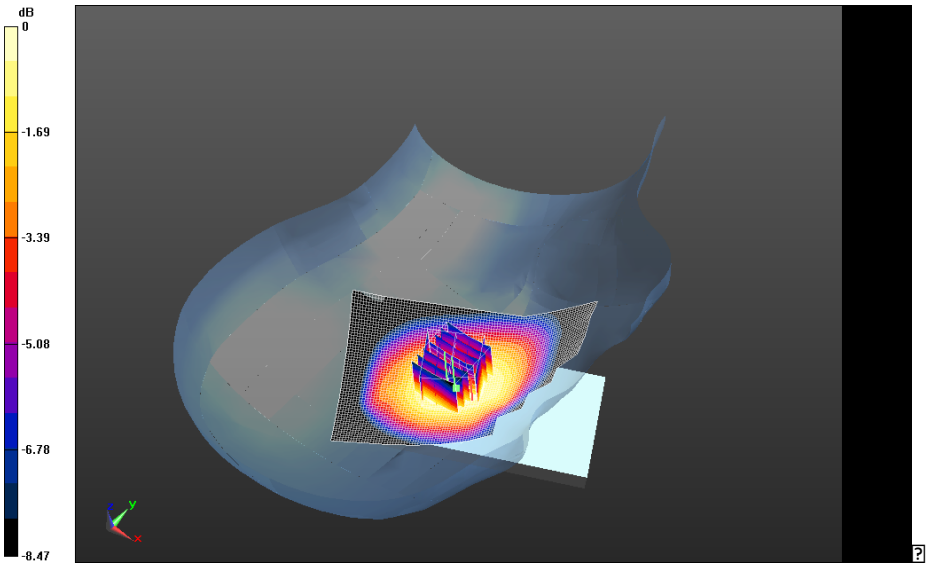
Right-Hand-Side HSL - UMTS Band V/Tilt Position - UMTS_Band_V_chan4182_amb_temp_C_liq_temp_C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 14.337 V/m; **Power Drift = -0.058 dB**

Right-Hand-Side HSL - UMTS Band V/Tilt Position - UMTS_Band_V_chan4182_amb_temp_C_liq_temp_C/Zoom Scan (31x31x36)/Cube 0:
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 14.337 V/m; **Power Drift = -0.058 dB**

Averaged SAR: SAR(1g) = 0.312 W/kg; SAR(10g) = 0.237 W/kg
Maximum value of SAR (interpolated) = 0.382 W/kg

Right-Hand-Side HSL - UMTS Band V/Tilt Position - UMTS_Band_V_chan4182_amb_temp_C_liq_temp_C/Zoom Scan 2 (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 14.337 V/m; **Power Drift = -0.017 dB**

Averaged SAR: SAR(1g) = 0.312 W/kg; SAR(10g) = 0.238 W/kg
Maximum value of SAR (interpolated) = 0.385 W/kg



0 dB = 0.581 W/kg = -2.36 dBW/kg

Date: 3/19/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB02A49

Configuration: Left-Hand-Side HSL - UMTS Band V

Communication System: WCDMA FDD V; Communication System Band: UMTS band V;
Frequency: 836.4 MHz
Medium Parameters used: f=836.4 MHz; σ = 0.933 S/m; ε_r = 43.191; ρ = 1.000 g/cm^3
Phantom section: Left Section

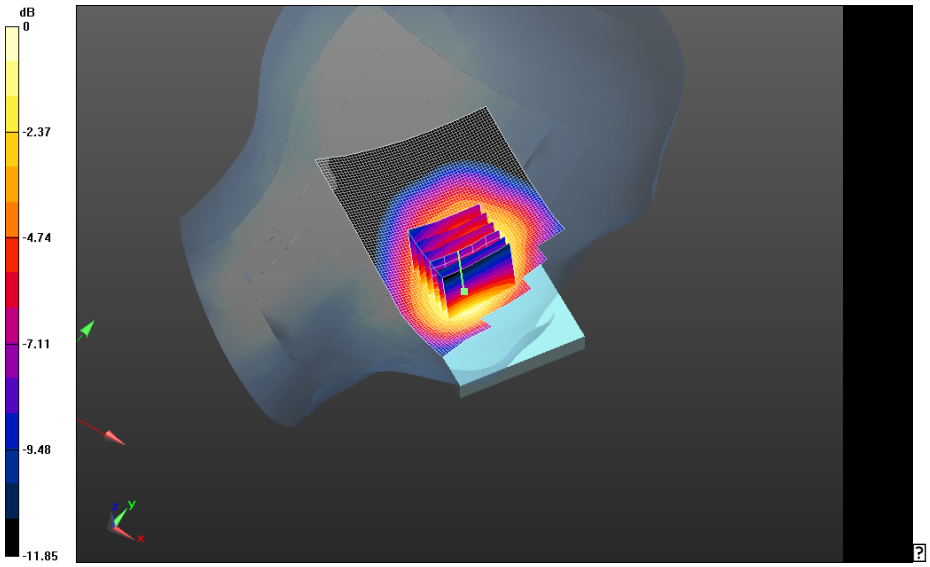
DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.19,6.19,6.19); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Left-Hand-Side HSL - UMTS Band V/Touch Position - UMTS_Band_V_chan4182_amb_temp_23.4C_liq_temp_21.5C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.997 V/m; **Power Drift = 0.097 dB**

Left-Hand-Side HSL - UMTS Band V/Touch Position - UMTS_Band_V_chan4182_amb_temp_23.4C_liq_temp_21.5C/Zoom Scan (26x26x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 8.997 V/m; **Power Drift = 0.097 dB**

Averaged SAR: SAR(1g) = 0.503 W/kg; SAR(10g) = 0.360 W/kg
Maximum value of SAR (interpolated) = 0.698 W/kg

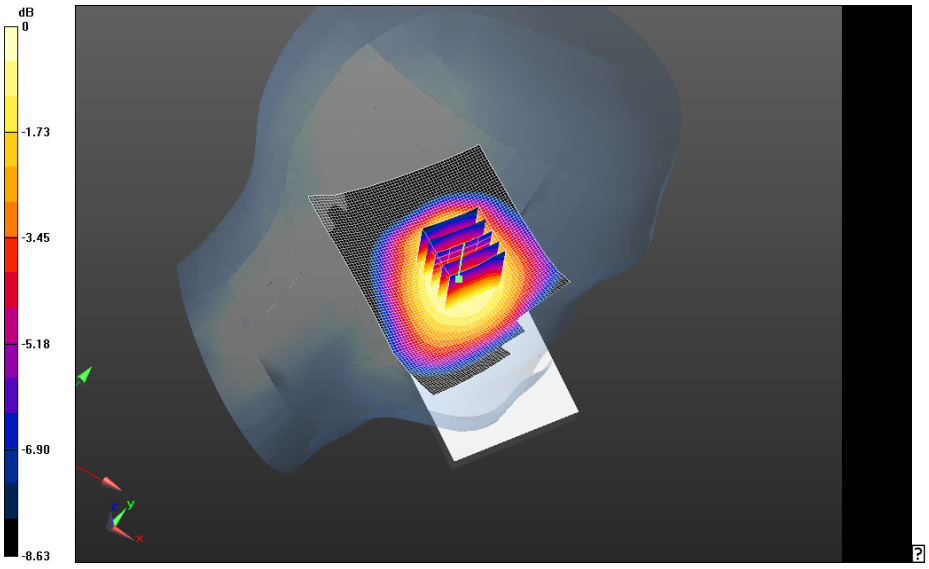


0 dB = 0.564 W/kg = -2.49 dBW/kg

Left-Hand-Side HSL - UMTS Band V/Tilt Position - UMTS_Band_V_chan4182_amb_temp_23.4C_liq_temp_21.5C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 13.343 V/m; **Power Drift = 0.016 dB**

Left-Hand-Side HSL - UMTS Band V/Tilt Position - UMTS_Band_V_chan4182_amb_temp_23.4C_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 = 13.343 V/m; **Power Drift = 0.016 dB**

Averaged SAR: SAR(1g) = 0.299 W/kg; SAR(10g) = 0.226 W/kg
Maximum value of SAR (interpolated) = 0.372 W/kg



0 dB = 0.564 W/kg = -2.49 dBW/kg

DTM 1900

Date: 3/25/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB04D29

Configuration: Right-Hand-Side HSL - DTM 1900

Communication System: DTM 1900; Communication System Band: DTM 1900; Frequency: 1850.2 MHz

Medium Parameters used: f=1850.2 MHz; σ = 1.371 S/m; ε_r = 38.516; ρ = 1.000 g/cm^3

Phantom section: Right Section

DASY Configuration:

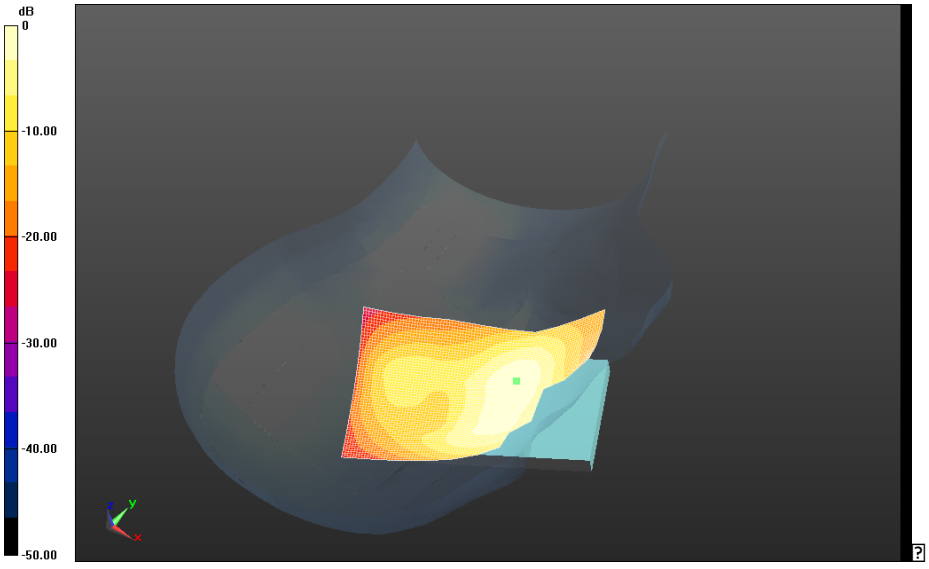
- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Right-Hand-Side HSL - DTM 1900/Touch Position - DTM1900_chan512_amb_temp_23.8C_liq_temp_21.2C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 11.174 V/m; **Power Drift = -0.159 dB**

Fast SAR: SAR(1g) = 0.911 W/kg; SAR(10g) = 0.501 W/kg; Secondary SAR(1g) = 0.195 W/kg

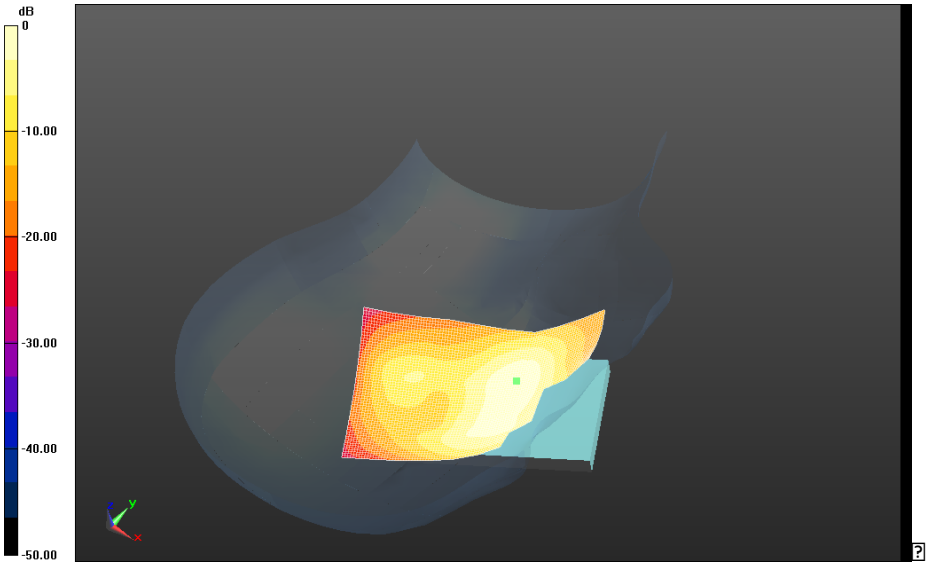
Maximum value of SAR (interpolated) = 1.17 W/kg



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

Right-Hand-Side HSL - DTM 1900/Touch Position - DTM1900_chan661_amb_temp_23.3C_liq_temp_21.5C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 10.776 V/m; **Power Drift = -0.129 dB**

Fast SAR: SAR(1g) = 0.853 W/kg; SAR(10g) = 0.465 W/kg; Secondary SAR(1g) = 0.197 W/kg
Maximum value of SAR (interpolated) = 1.10 W/kg

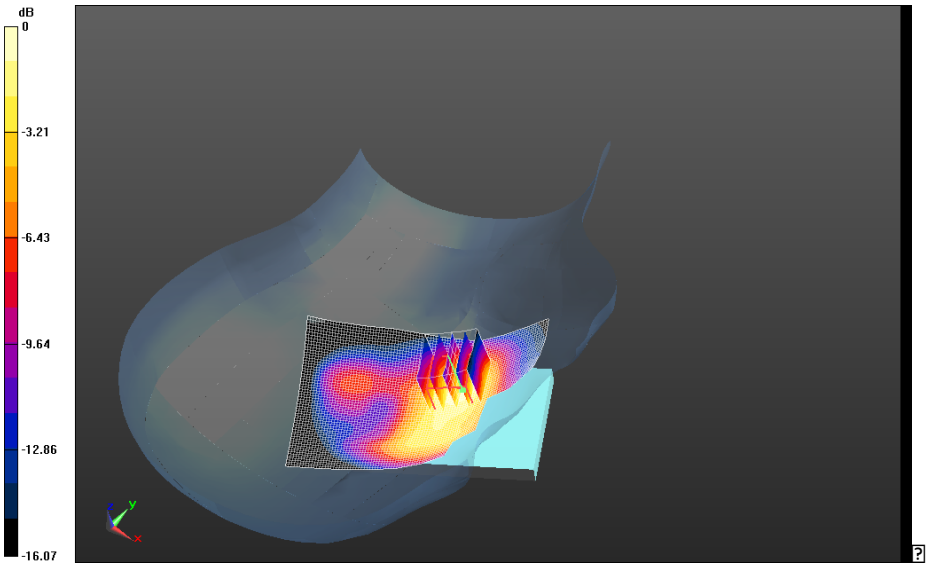


0 dB = 1.17 W/kg = 0.68 dBW/kg

Right-Hand-Side HSL - DTM 1900/Touch Position - DTM1900_chan810_amb_temp_23.7C_liq_temp_21.2C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 9.692 V/m; **Power Drift = -0.021 dB**

Right-Hand-Side HSL - DTM 1900/Touch Position - DTM1900_chan810_amb_temp_23.7C_liq_temp_21.2C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 9.692 V/m; **Power Drift = -0.021 dB**

Averaged SAR: SAR(1g) = 0.909 W/kg; SAR(10g) = 0.552 W/kg
Maximum value of SAR (interpolated) = 1.33 W/kg

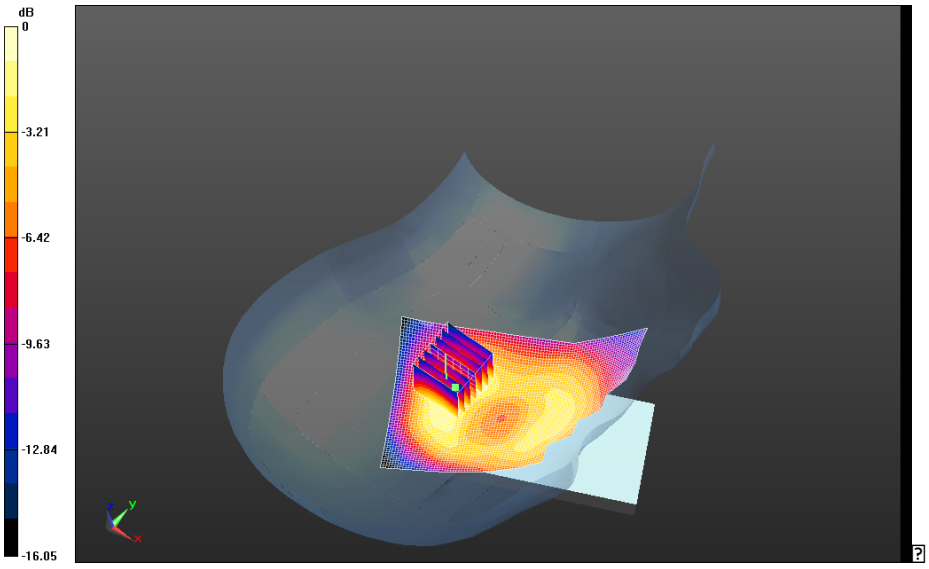


0 dB = 1.10 W/kg = 0.41 dBW/kg

Right-Hand-Side HSL - DTM 1900/Tilt Position - DTM1900_chan661_amb_temp_23.8C_liq_temp_21.2C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.550 V/m; **Power Drift = 0.176 dB**

Right-Hand-Side HSL - DTM 1900/Tilt Position - DTM1900_chan661_amb_temp_23.8C_liq_temp_21.2C/Zoom Scan (31x31x36)/Cube 0:
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 12.550 V/m; **Power Drift = 0.176 dB**

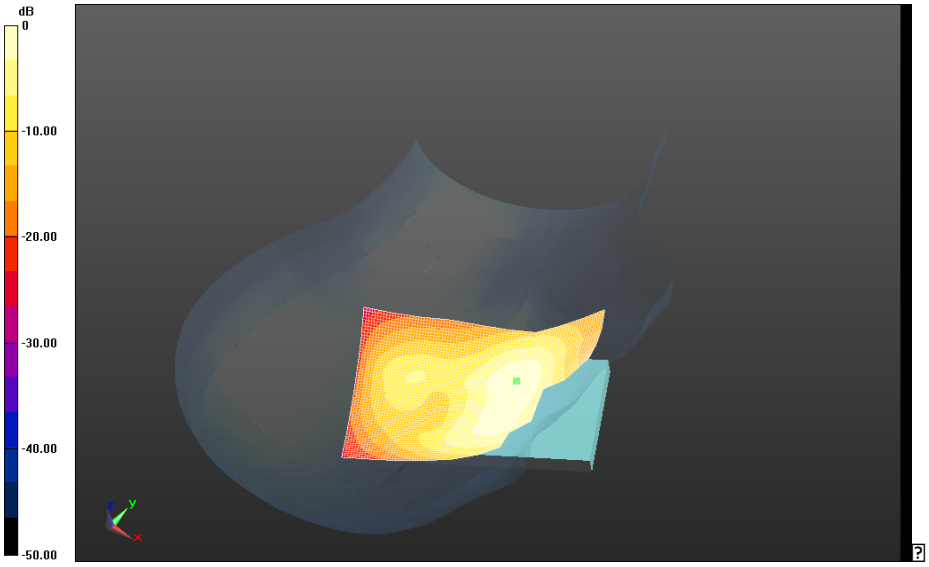
Averaged SAR: SAR(1g) = 0.239 W/kg; SAR(10g) = 0.141 W/kg
Maximum value of SAR (interpolated) = 0.367 W/kg



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

Right-Hand-Side HSL - DTM 1900/Touch Position - GSM1900_chan512_amb_temp_23.2C_liq_temp_22.0C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 10.502 V/m; **Power Drift = 0.0089 dB**

Fast SAR: SAR(1g) = 0.779 W/kg; SAR(10g) = 0.427 W/kg; Secondary SAR(1g) = 0.181 W/kg
Maximum value of SAR (interpolated) = 0.998 W/kg



0 dB = 0.263 W/kg = -5.80 dBW/kg

Date: 3/25/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB04D29

Configuration: Left-Hand-Side HSL - DTM 1900

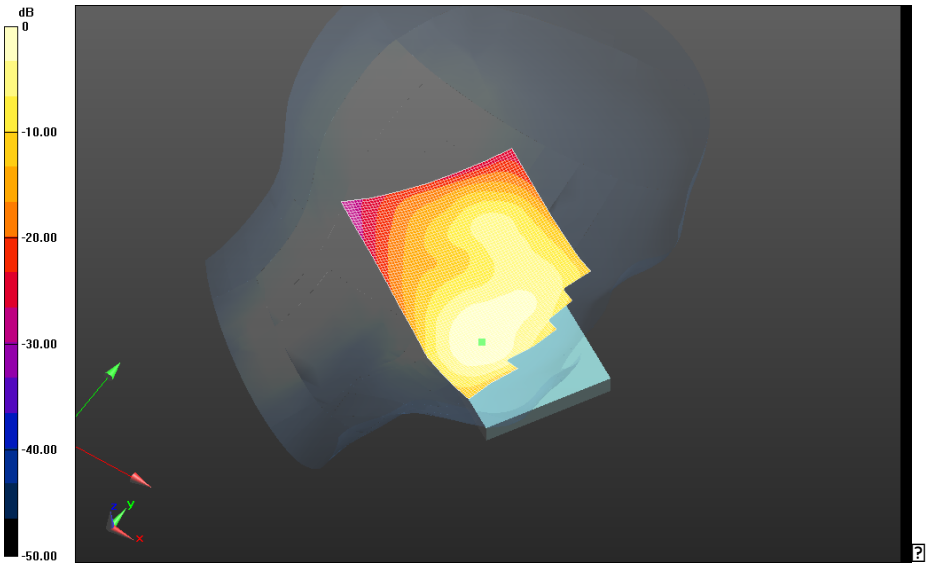
Communication System: DTM 1900; Communication System Band: DTM 1900; Frequency: 1850.2 MHz
Medium Parameters used: f=1850.2 MHz; σ = 1.371 S/m; ε_r = 38.516; ρ = 1.000 g/cm^3
Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Left-Hand-Side HSL - DTM 1900/Touch Position - DTM1900_chan512_amb_temp_23.8C_liq_temp_21.2C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 9.605 V/m; **Power Drift = -0.110 dB**

Fast SAR: SAR(1g) = 1.08 W/kg; SAR(10g) = 0.623 W/kg; Secondary SAR(1g) = 0.342 W/kg
Maximum value of SAR (interpolated) = 1.31 W/kg

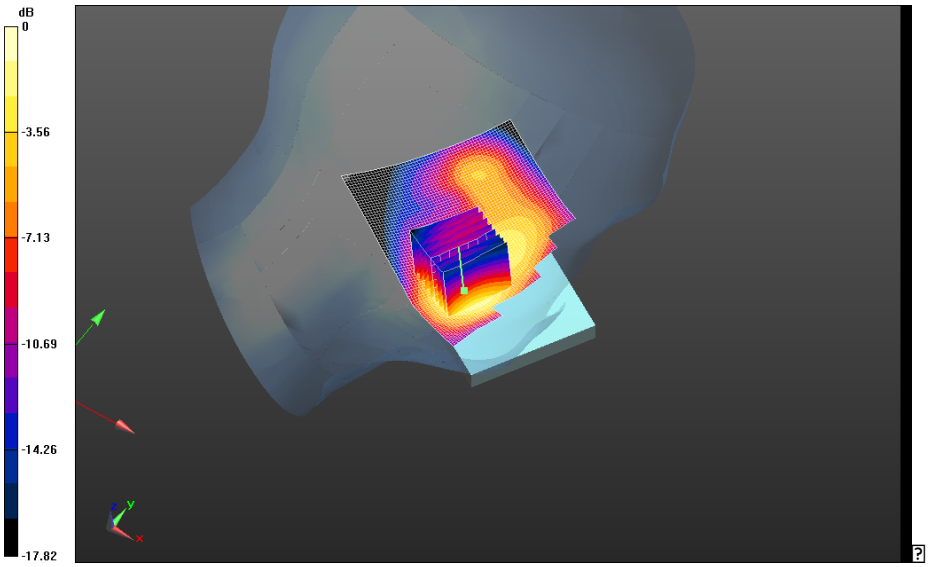


0 dB = 1.31 W/kg = 1.17 dBW/kg

Left-Hand-Side HSL - DTM 1900/Touch Position - DTM1900_chan661_amb_temp_23.8C_liq_temp_21.2C/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.837 V/m; **Power Drift = 0.096 dB**

Left-Hand-Side HSL - DTM 1900/Touch Position - DTM1900_chan661_amb_temp_23.8C_liq_temp_21.2C/Zoom Scan (36x36x36)/Cube 0:
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 8.837 V/m; **Power Drift = 0.096 dB**

Averaged SAR: SAR(1g) = 1.12 W/kg; SAR(10g) = 0.660 W/kg
Maximum value of SAR (interpolated) = 1.79 W/kg

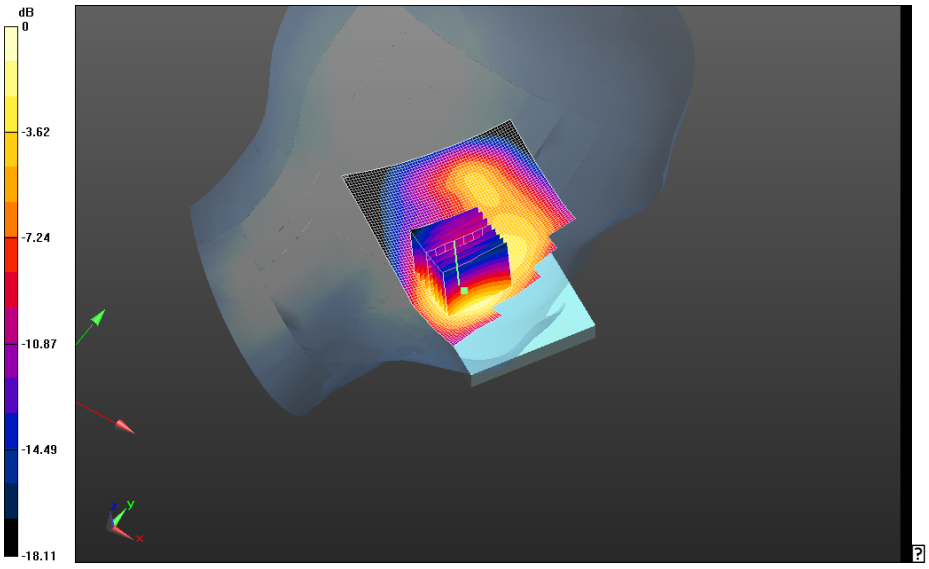


0 dB = 1.31 W/kg = 1.17 dBW/kg

Left-Hand-Side HSL - DTM 1900/Touch Position - DTM1900_chan661_2nd_Scan_amb_temp_23.2C_liq_temp_22.0C/Area Scan (61x81x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 9.608 V/m; **Power Drift = -0.135 dB**

Left-Hand-Side HSL - DTM 1900/Touch Position - DTM1900_chan661_2nd_Scan_amb_temp_23.2C_liq_temp_22.0C/Zoom Scan (36x36x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 9.608 V/m; **Power Drift = -0.135 dB**

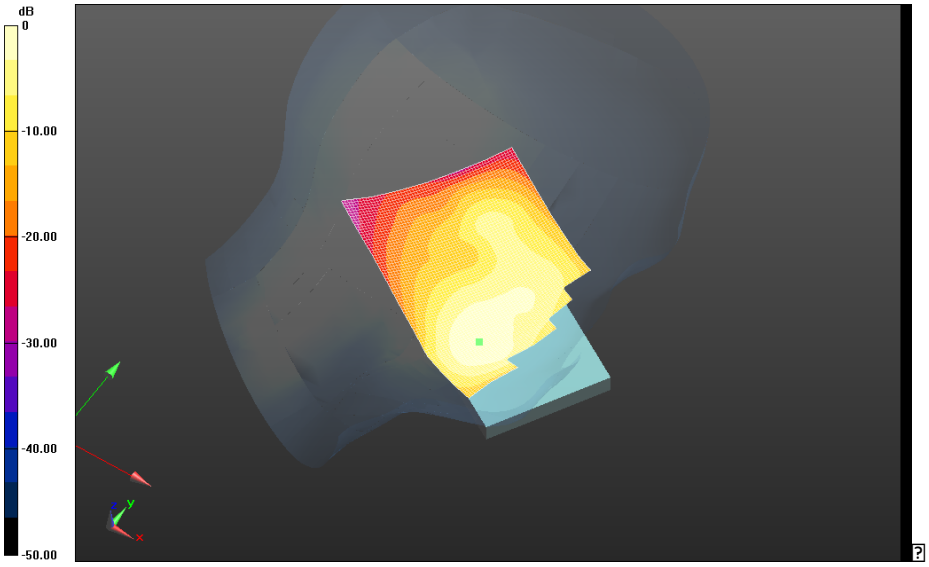
Averaged SAR: SAR(1g) = 1.07 W/kg; SAR(10g) = 0.632 W/kg
Maximum value of SAR (interpolated) = 1.69 W/kg



0 dB = 1.23 W/kg = 0.90 dBW/kg

Left-Hand-Side HSL - DTM 1900/Touch Position - DTM1900_chan810_amb_temp_23.8C_liq_temp_21.2C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.537 V/m; **Power Drift = 0.049 dB**

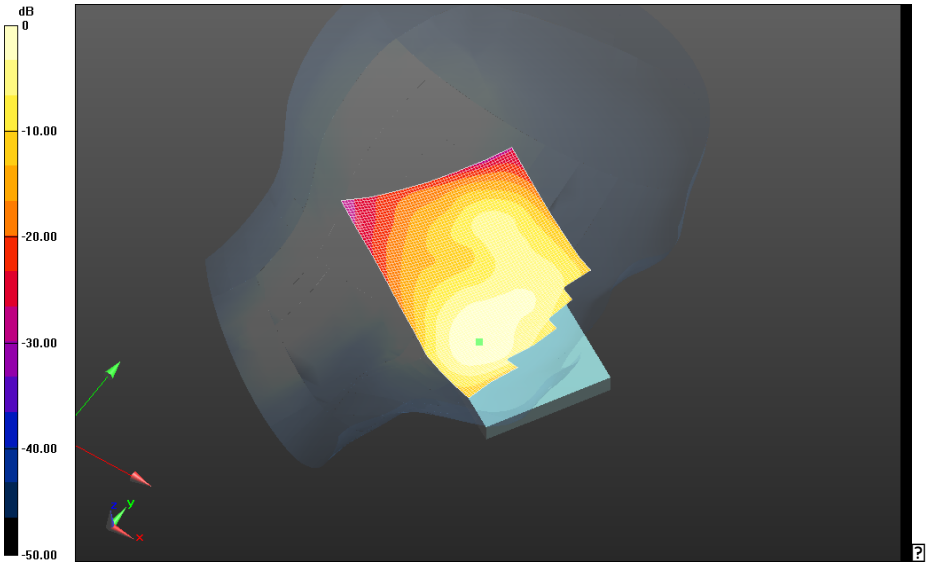
Fast SAR: SAR(1g) = 1.06 W/kg; SAR(10g) = 0.603 W/kg; Secondary SAR(1g) = 0.306 W/kg
Maximum value of SAR (interpolated) = 1.31 W/kg



0 dB = 1.18 W/kg = 0.72 dBW/kg

Left-Hand-Side HSL - DTM 1900/Touch Position - DTM1900_3-slots_chan661_amb_temp_23.8C_liq_temp_21.2C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.429 V/m; **Power Drift = 0.112 dB**

Fast SAR: SAR(1g) = 0.987 W/kg; SAR(10g) = 0.567 W/kg; Secondary SAR(1g) = 0.315 W/kg
Maximum value of SAR (interpolated) = 1.21 W/kg

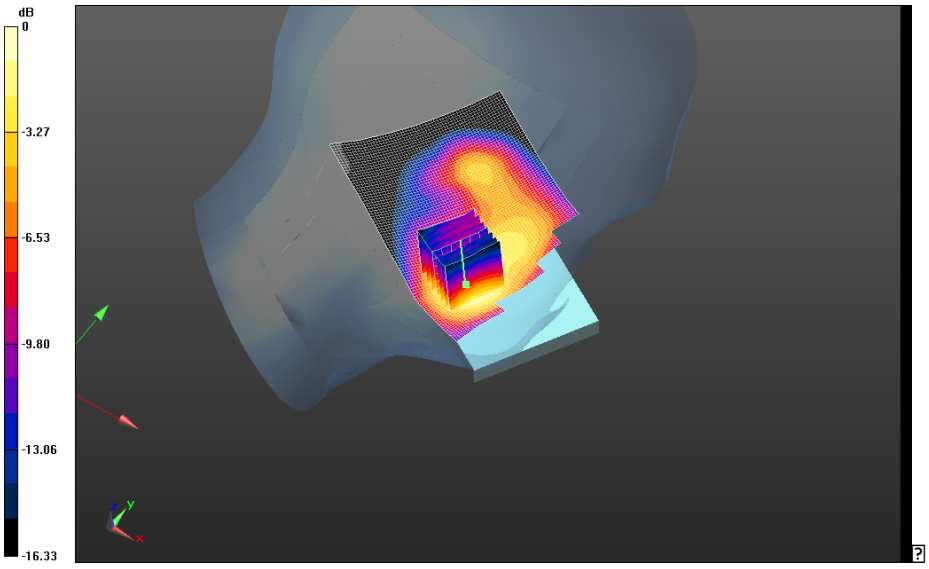


0 dB = 0.485 W/kg = -3.14 dBW/kg

Left-Hand-Side HSL - DTM 1900/Touch Position – EDGE1900_4-slots_chan661_amb_temp_23.8C_liq_temp_21.2C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.511 V/m; **Power Drift = -0.00309 dB**

Left-Hand-Side HSL - DTM 1900/Touch Position - EDGE1900_4-slots_chan661_amb_temp_23.8C_liq_temp_21.2C/Zoom Scan (31x31x36)/Cube 0:
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 8.511 V/m; **Power Drift = -0.00309 dB**

Averaged SAR: SAR(1g) = 0.884 W/kg; SAR(10g) = 0.528 W/kg
Maximum value of SAR (interpolated) = 1.36 W/kg

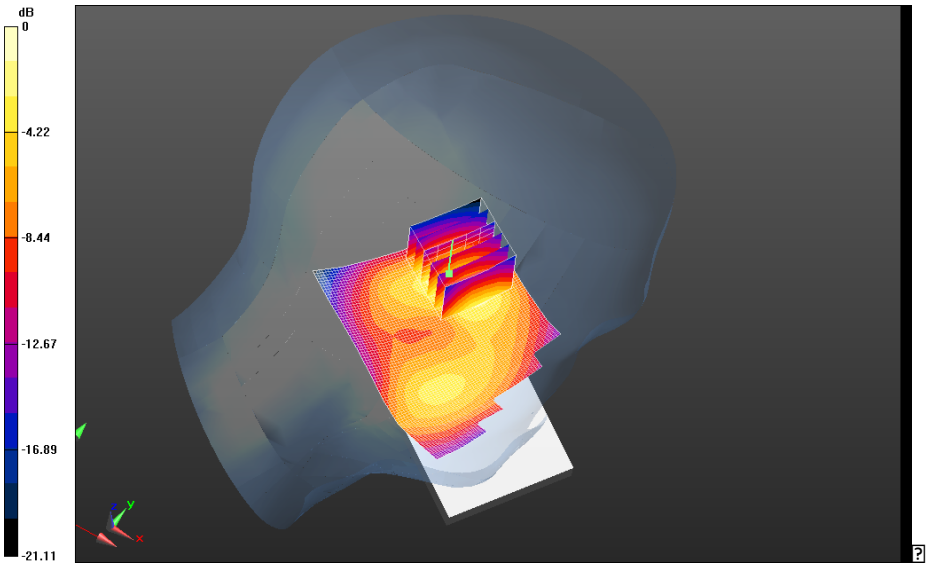


0 dB = 1.21 W/kg = 0.83 dBW/kg

Left-Hand-Side HSL - DTM 1900/Tilt Position - DTM1900_chan661_amb_temp_23.8C_liq_temp_21.2C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 11.925 V/m; **Power Drift = 0.058 dB**

Left-Hand-Side HSL - DTM 1900/Tilt Position - DTM1900_chan661_amb_temp_23.8C_liq_temp_21.2C/Zoom Scan (26x26x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 11.925 V/m; **Power Drift = 0.058 dB**

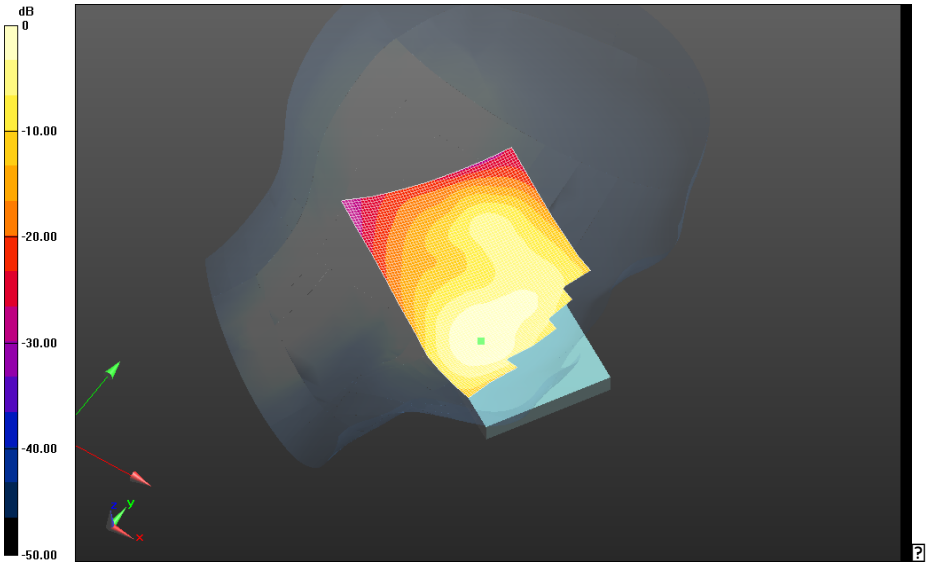
Averaged SAR: SAR(1g) = 0.406 W/kg; SAR(10g) = 0.229 W/kg
Maximum value of SAR (interpolated) = 0.648 W/kg



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

Left-Hand-Side HSL - DTM 1900/Touch Position - GSM1900_chan661_amb_temp_23.4C_liq_temp_22.0C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.925 V/m; **Power Drift = 0.061 dB**

Fast SAR: SAR(1g) = 1.06 W/kg; SAR(10g) = 0.606 W/kg; Secondary SAR(1g) = 0.363 W/kg
Maximum value of SAR (interpolated) = 1.29 W/kg



0 dB = 0.966 W/kg = -0.15 dBW/kg

UMTS Band II

Date: 3/11/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB02A49

Configuration: Right-Hand-Side HSL - UMTS Band II

Communication System: WCDMA FDD II; Communication System Band: UMTS FDD II; Frequency: 1852.4 MHz
Medium Parameters used: f=1852.4 MHz; σ = 1.345 S/m; ε_r = 38.849; ρ = 1.000 g/cm^3
Phantom section: Right Section

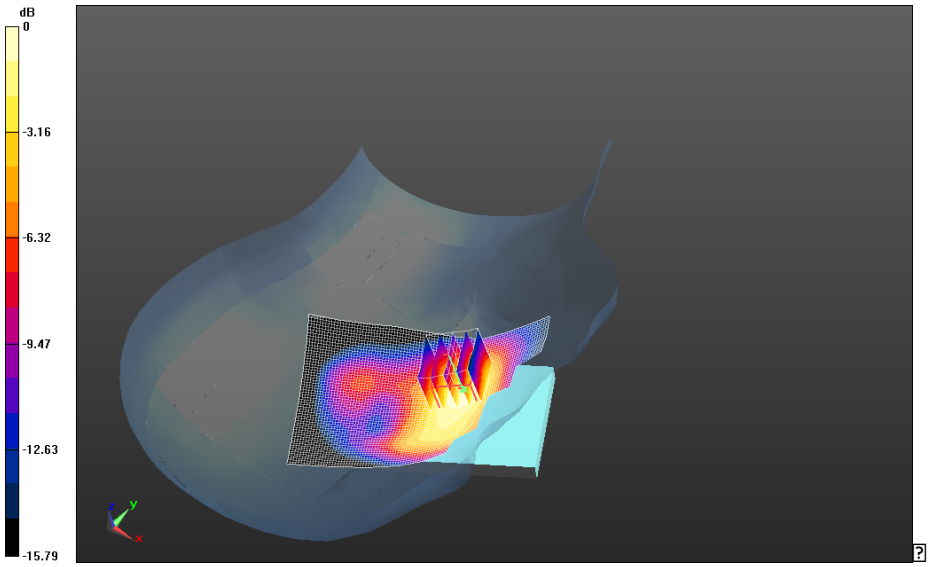
DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Right-Hand-Side HSL - UMTS Band II/Touch Position - UMTS_band_II_chan9262_amb_temp_23.7C_liq_temp_21.2C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.34 W/kg

Right-Hand-Side HSL - UMTS Band II/Touch Position - UMTS_band_II_chan9262_amb_temp_23.7C_liq_temp_21.2C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 10.576 V/m; **Power Drift = 0.045 dB**

Averaged SAR: SAR(1g) = 1.04 W/kg; SAR(10g) = 0.656 W/kg
Maximum value of SAR (interpolated) = 1.45 W/kg

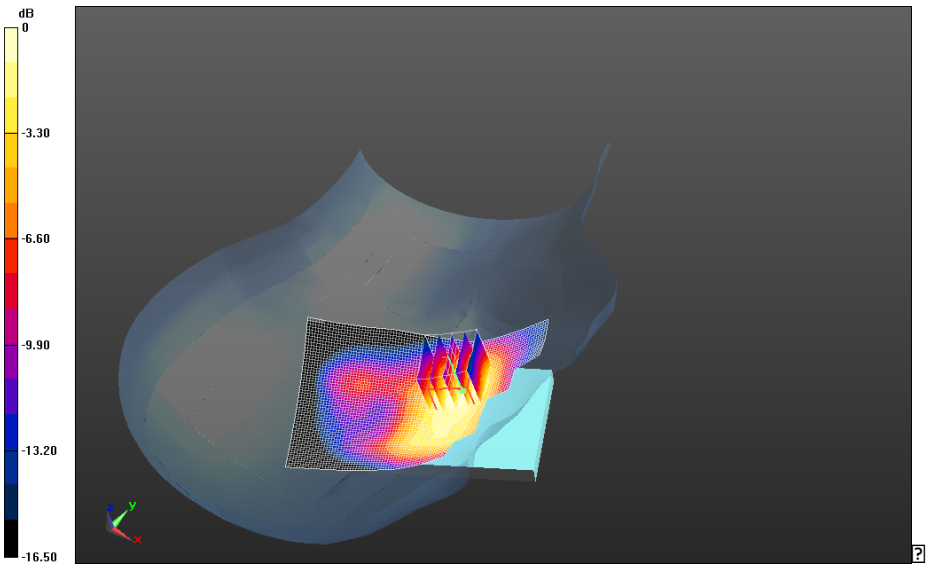


0 dB = 1.20 W/kg = 0.79 dBW/kg

Right-Hand-Side HSL - UMTS Band II/Touch Position - UMTS_band_II_chan9400_amb_temp_23.7C_liq_temp_21.2C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.35 W/kg

Right-Hand-Side HSL - UMTS Band II/Touch Position - UMTS_band_II_chan9400_amb_temp_23.7C_liq_temp_21.2C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 9.115 V/m; **Power Drift = 0.089 dB**

Averaged SAR: SAR(1g) = 1.03 W/kg; SAR(10g) = 0.640 W/kg
Maximum value of SAR (interpolated) = 1.47 W/kg

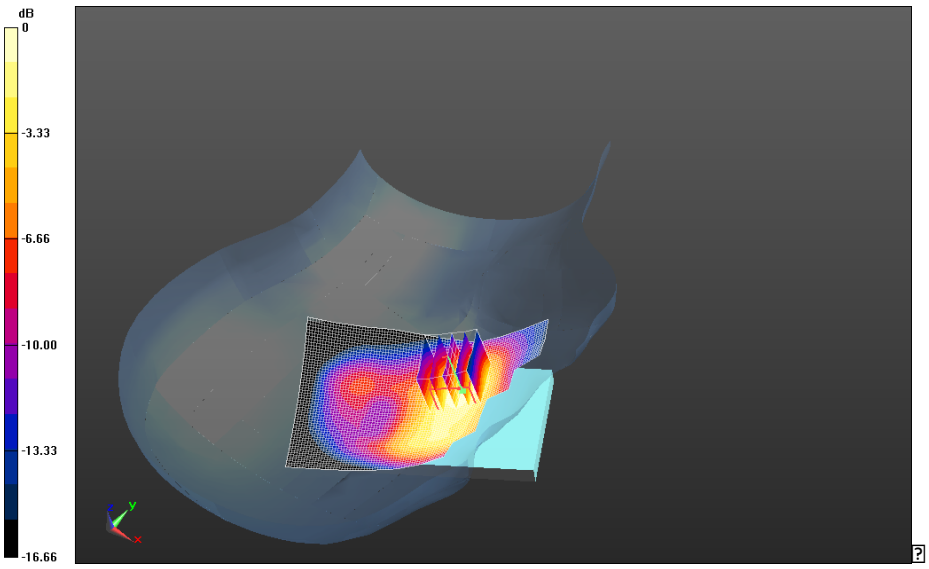


0 dB = 1.20 W/kg = 0.79 dBW/kg

Right-Hand-Side HSL - UMTS Band II/Touch Position - UMTS_band_II_chan9538_amb_temp_23.9C_liq_temp_21.2C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.36 W/kg

Right-Hand-Side HSL - UMTS Band II/Touch Position - UMTS_band_II_chan9538_amb_temp_23.9C_liq_temp_21.2C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 10.452 V/m; **Power Drift = 0.091 dB**

Averaged SAR: SAR(1g) = 1.05 W/kg; SAR(10g) = 0.640 W/kg
Maximum value of SAR (interpolated) = 1.52 W/kg



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

Date: 4/8/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB04D29

Configuration: Right-Hand-Side Tilt HSL - UMTS Band II

Communication System: WCDMA FDD II; Communication System Band: UMTS FDD II; Frequency: 1880 MHz
Medium Parameters used: f=1880 MHz; σ = 1.360 S/m; ε_r = 38.351; ρ = 1.000 g/cm^3
Phantom section: Right Section

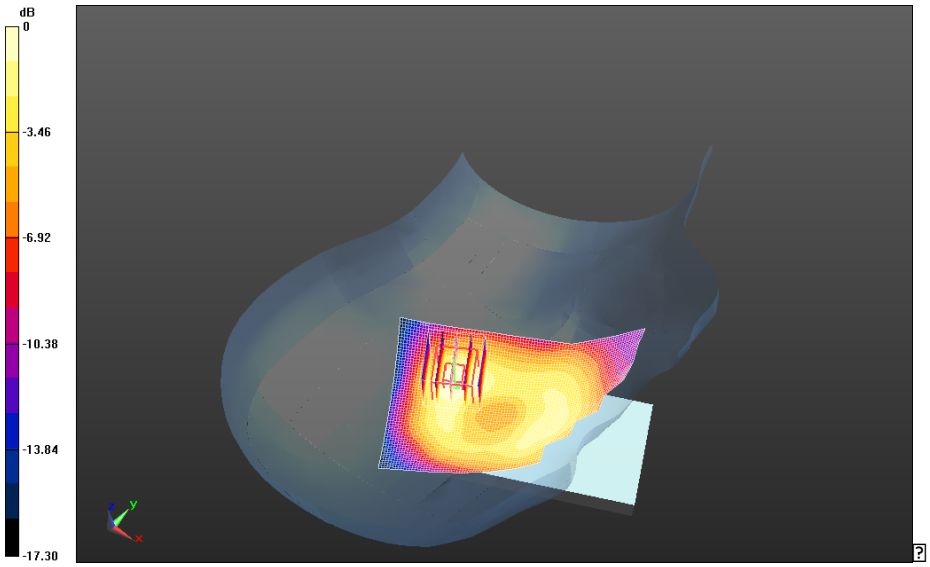
DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Right-Hand-Side Tilt HSL - UMTS Band II/Tilt Position - UMTS_band_II_chan9400_amb_temp_23.7C_liq_temp_21.2C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.321 W/kg

Right-Hand-Side Tilt HSL - UMTS Band II/Tilt Position - UMTS_band_II_chan9400_amb_temp_23.7C_liq_temp_21.2C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 12.767 V/m; **Power Drift = -0.108 dB**

Averaged SAR: SAR(1g) = 0.255 W/kg; SAR(10g) = 0.148 W/kg
Maximum value of SAR (interpolated) = 0.390 W/kg



0 dB = 0.294 W/kg = -5.32 dBW/kg

Date: 3/11/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB02A49

Configuration: Left-Hand-Side HSL - UMTS Band II

Communication System: WCDMA FDD II; Communication System Band: UMTS FDD II; Frequency: 1852.4 MHz
Medium Parameters used: f=1852.4 MHz; σ = 1.345 S/m; ε_r = 38.849; ρ = 1.000 g/cm^3
Phantom section: Left Section

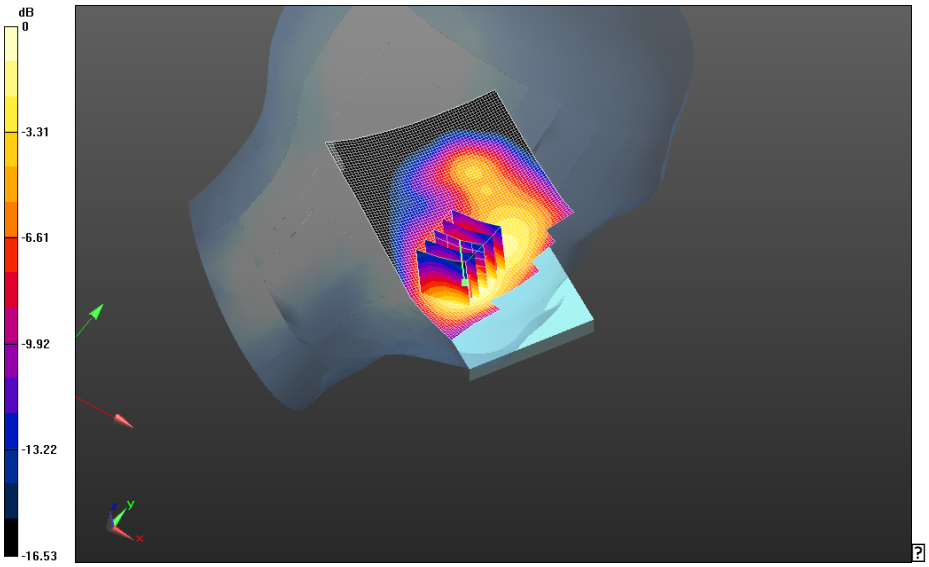
DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Left-Hand-Side HSL - UMTS Band II/Touch Position - UMTS_band_II_chan9262_amb_temp_23.3C_liq_temp_21.2C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.43 W/kg

Left-Hand-Side HSL - UMTS Band II/Touch Position - UMTS_band_II_chan9262_amb_temp_23.3C_liq_temp_21.2C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 9.984 V/m; **Power Drift = 0.017 dB**

Averaged SAR: SAR(1g) = 1.20 W/kg; SAR(10g) = 0.720 W/kg
Maximum value of SAR (interpolated) = 1.88 W/kg

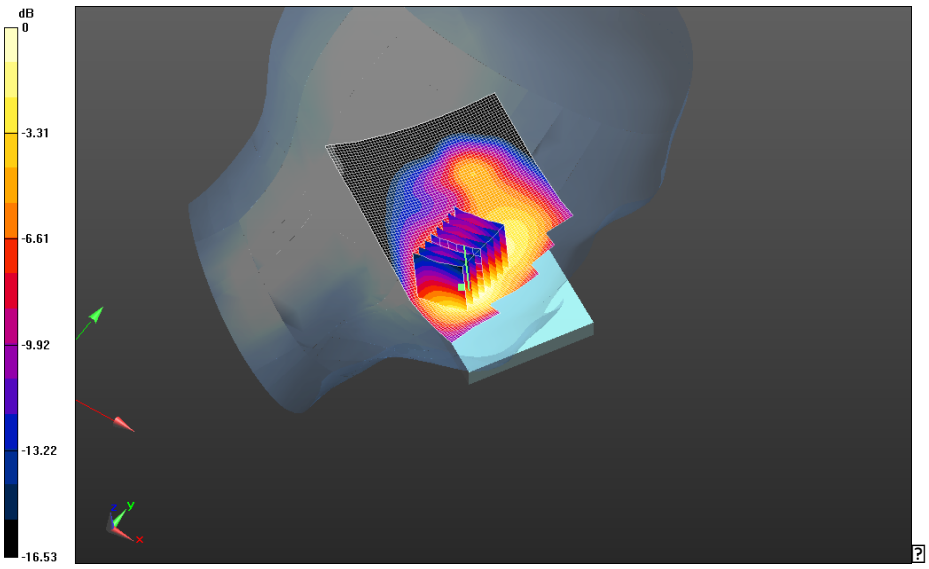


0 dB = 1.31 W/kg = 1.17 dBW/kg

Left-Hand-Side HSL - UMTS Band II/Touch Position - UMTS_band_II_chan9400_amb_temp_23.4C_liq_temp_21.2C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.42 W/kg

Left-Hand-Side HSL - UMTS Band II/Touch Position - UMTS_band_II_chan9400_amb_temp_23.4C_liq_temp_21.2C/Zoom Scan (31x36x36)/Cube 0:
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 8.604 V/m; **Power Drift = 0.00498 dB**

Averaged SAR: SAR(1g) = 1.18 W/kg; SAR(10g) = 0.706 W/kg
Maximum value of SAR (interpolated) = 1.86 W/kg

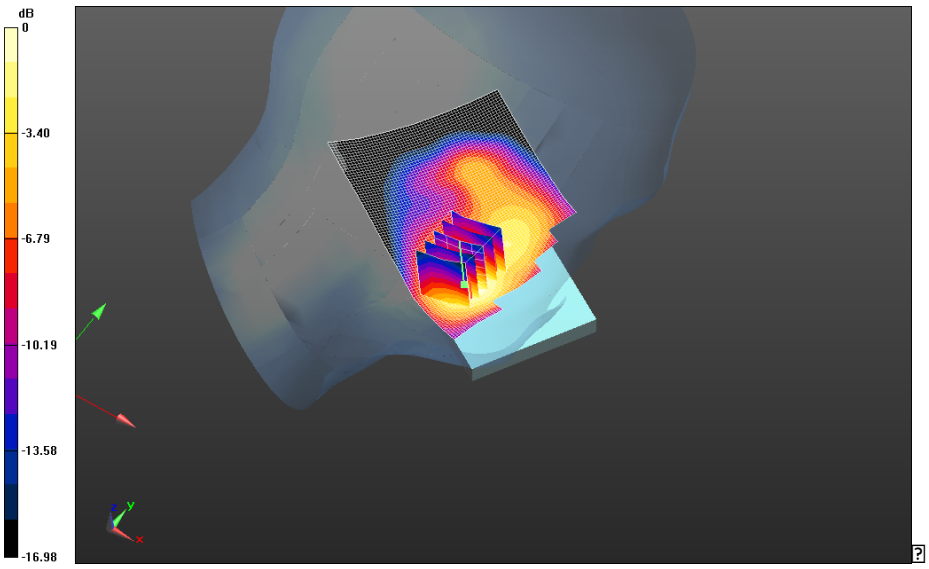


0 dB = 1.31 W/kg = 1.17 dBW/kg

Left-Hand-Side HSL - UMTS Band II/Touch Position - UMTS_band_II_chan9538_amb_temp_23.3C_liq_temp_21.2C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.47 W/kg

Left-Hand-Side HSL - UMTS Band II/Touch Position - UMTS_band_II_chan9538_amb_temp_23.3C_liq_temp_21.2C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 9.619 V/m; **Power Drift = 0.069 dB**

Averaged SAR: SAR(1g) = 1.22 W/kg; SAR(10g) = 0.721 W/kg
Maximum value of SAR (interpolated) = 1.97 W/kg

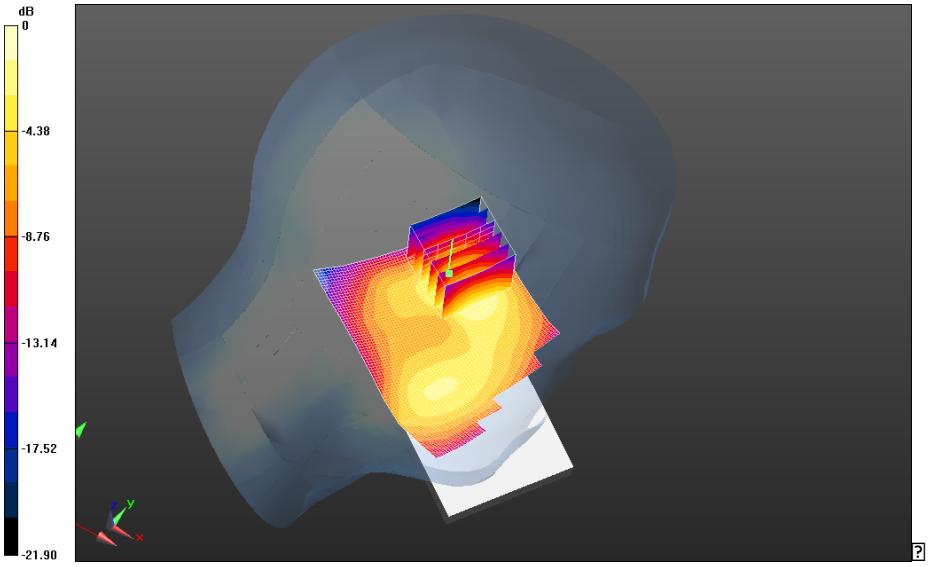


0 dB = 1.26 W/kg = 1.00 dBW/kg

Left-Hand-Side HSL - UMTS Band II/Tilt Position - UMTS_band_II_chan9400_amb_temp_23.4C_liq_temp_21.2C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.479 W/kg

Left-Hand-Side HSL - UMTS Band II/Tilt Position - UMTS_band_II_chan9400_amb_temp_23.4C_liq_temp_21.2C/Zoom Scan (26x26x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 10.723 V/m; **Power Drift = -0.083 dB**

Averaged SAR: SAR(1g) = 0.357 W/kg; SAR(10g) = 0.203 W/kg
Maximum value of SAR (interpolated) = 0.565 W/kg



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

Date: 4/8/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB04D29

Configuration: Left-Hand-Side HSL - UMTS Band II 2nd Scan

Communication System: WCDMA FDD II; Communication System Band: UMTS FDD II; Frequency: 1907.6 MHz
Medium Parameters used: f=1907.6 MHz; σ = 1.389 S/m; ε_r = 38.256; ρ = 1.000 g/cm^3
Phantom section: Left Section

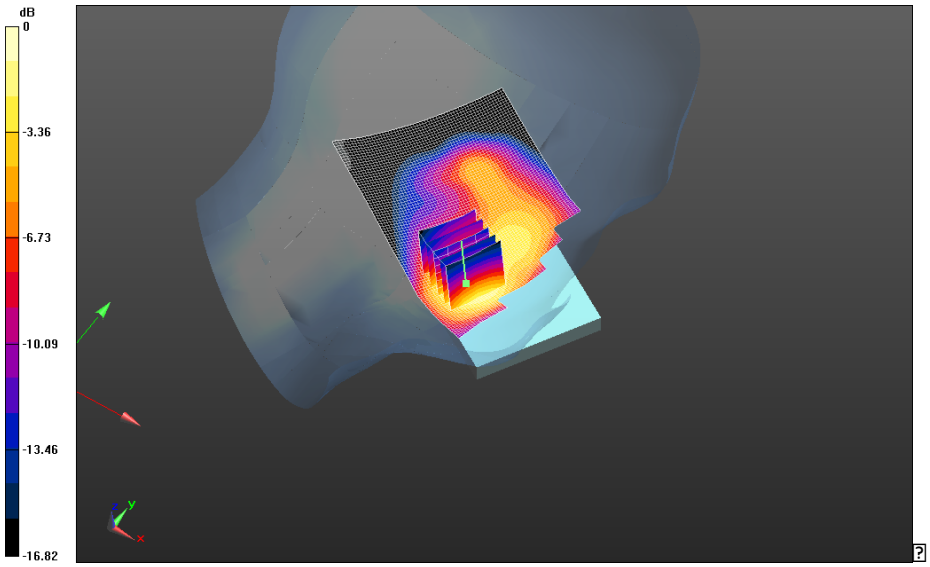
DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Left-Hand-Side HSL - UMTS Band II 2nd Scan/Touch Position - UMTS_band_II_chan9538_amb_temp_23.3C_liq_temp_21.2C_2nd Scan/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.56 W/kg

Left-Hand-Side HSL - UMTS Band II 2nd Scan/Touch Position - UMTS_band_II_chan9538_amb_temp_23.3C_liq_temp_21.2C_2nd Scan/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 10.114 V/m; **Power Drift = 0.093 dB**

Averaged SAR: SAR(1g) = 1.33 W/kg; SAR(10g) = 0.782 W/kg
Maximum value of SAR (interpolated) = 2.11 W/kg



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

802.11b

Date: 3/22/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB04D29

Configuration: Right-Hand-Side HSL – 802.11b

Communication System: 802.11 b (2450); Communication System Band: 802.11 b; Frequency: 2437 MHz
Medium Parameters used: f=2437 MHz; σ = 1.824 S/m; ε_r = 37.732; ρ = 1.000 g/cm^3
Phantom section: Right Section

DASY Configuration:

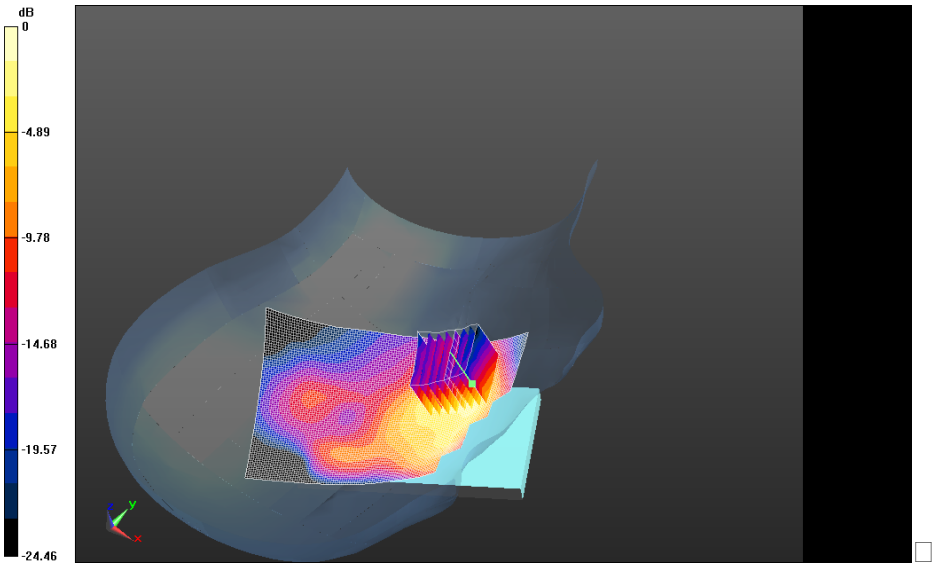
- Probe: ES3DV3 - SN3225; ConvF: (4.65,4.65,4.65); Calibrated: 1/10/2013;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Right-Hand-Side HSL/Touch Position - 802.11b_mid_chan_amb_temp_23.3C_liq_temp_21.2C/Area Scan (81x121x1):
Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.344 W/kg

Right-Hand-Side HSL/Touch Position - 802.11b_mid_chan_amb_temp_23.3C_liq_temp_21.2C/Zoom Scan (36x36x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 2.497 V/m; **Power Drift = 0.155 dB**

Averaged SAR: SAR(1g) = 0.316 W/kg; SAR(10g) = 0.153 W/kg
Maximum value of SAR (interpolated) = 0.682 W/kg



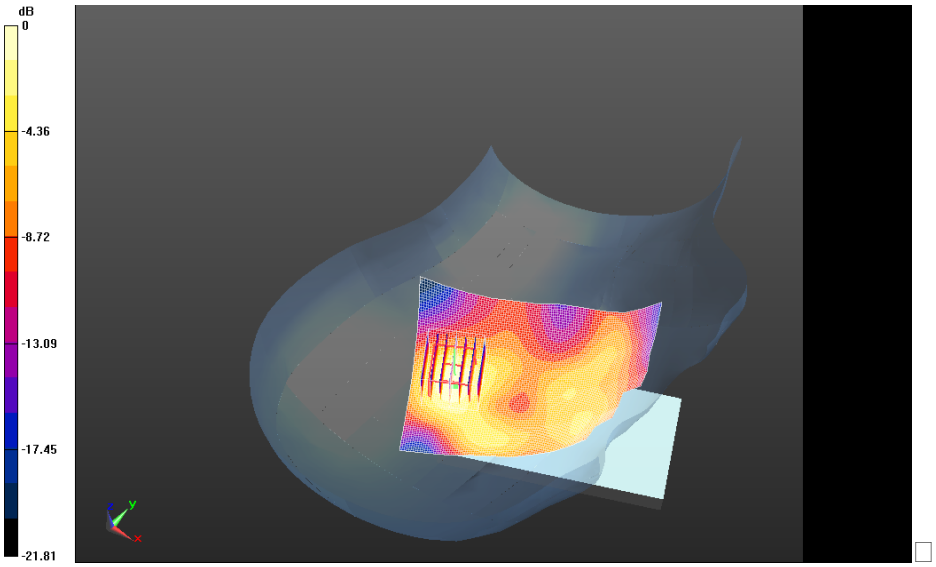
0 dB = 0.349 W/kg = -4.57 dBW/kg

Right-Hand-Side HSL/Tilt Position - 802.11b_mid_chan_amb_temp_23.3C_liq_temp_20.7C/Area Scan (81x111x1):
Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0734 W/kg

Right-Hand-Side HSL/Tilt Position - 802.11b_mid_chan_amb_temp_23.3C_liq_temp_20.7C/Zoom Scan (31x31x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 6.356 V/m; **Power Drift = 0.00846 dB**

Averaged SAR: SAR(1g) = 0.0644 W/kg; SAR(10g) = 0.0340 W/kg
Maximum value of SAR (interpolated) = 0.110 W/kg



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

Date: 3/22/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB04D29

Configuration: Left-Hand-Side HSL – 802.11b

Communication System: 802.11 b (2450); Communication System Band: 802.11 b; Frequency: 2437 MHz
Medium Parameters used: f=2437 MHz; σ = 1.824 S/m; ε_r = 37.732; ρ = 1.000 g/cm^3
Phantom section: Left Section

DASY Configuration:

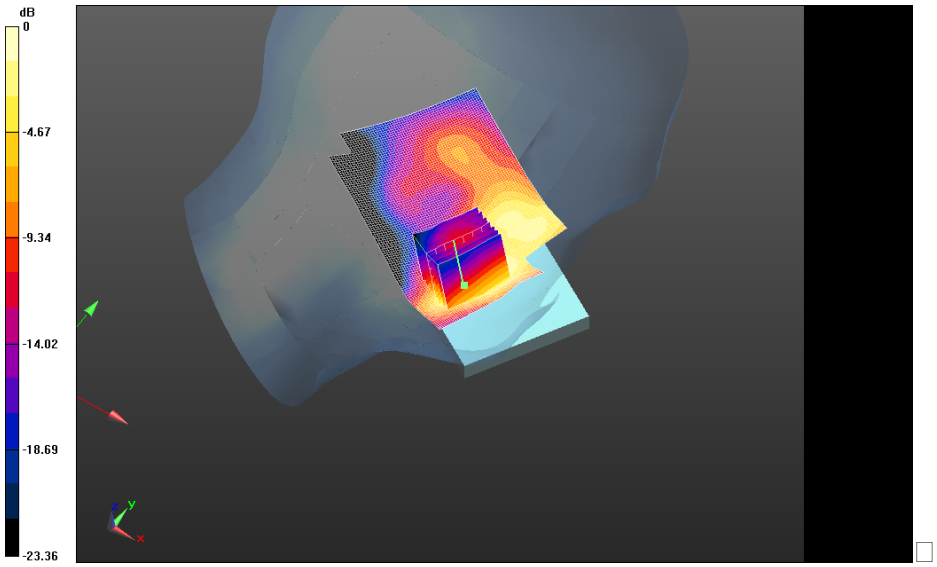
- Probe: ES3DV3 - SN3225; ConvF: (4.65,4.65,4.65); Calibrated: 1/10/2013;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Left-Hand-Side HSL/Touch Position - 802.11b_mid_chan_amb_temp_23.3C_liq_temp_20.7C/Area Scan (81x111x1):
Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.280 W/kg

Left-Hand-Side HSL/Touch Position - 802.11b_mid_chan_amb_temp_23.3C_liq_temp_20.7C/Zoom Scan (36x31x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 11.902 V/m; **Power Drift = -0.074 dB**

Averaged SAR: SAR(1g) = 0.213 W/kg; SAR(10g) = 0.120 W/kg
Maximum value of SAR (interpolated) = 0.364 W/kg



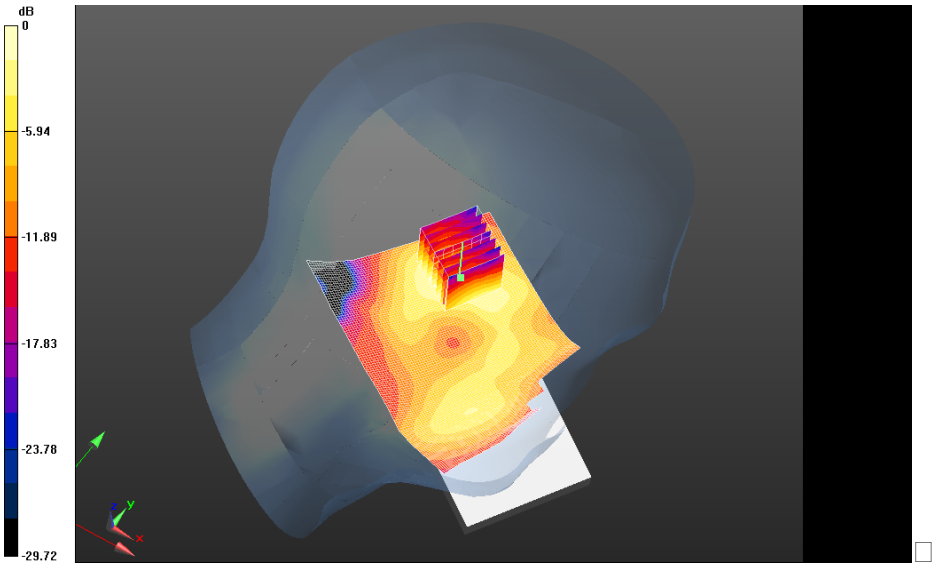
0 dB = 0.233 W/kg = -6.33 dBW/kg

Left-Hand-Side HSL/Tilt Position - 802.11b_mid_chan_amb_temp_23.1C_liq_temp_21.0C/Area Scan (81x121x1):
Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.107 W/kg

Left-Hand-Side HSL/Tilt Position - 802.11b_mid_chan_amb_temp_23.1C_liq_temp_21.0C/Zoom Scan (31x31x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 6.968 V/m; **Power Drift = 0.122 dB**

Averaged SAR: SAR(1g) = 0.0904 W/kg; SAR(10g) = 0.0460 W/kg
Maximum value of SAR (interpolated) = 0.162 W/kg



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

Bluetooth

Date: 3/21/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB02A54

Configuration: Right-Hand-Side HSL - Bluetooth

Communication System: Bluetooth; Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 2441 MHz
Medium Parameters used: f=2441 MHz; σ = 1.828 S/m; ε_r = 37.721; ρ = 1.000 g/cm^3
Phantom section: Right Section

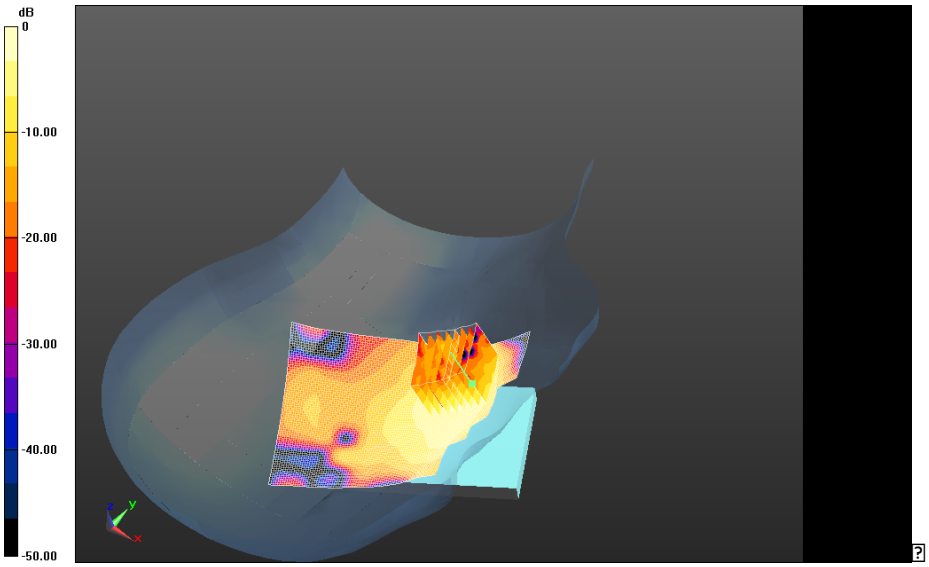
DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (4.65,4.65,4.65); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Right-Hand-Side HSL - Bluetooth/Touch Position - Bluetooth_chan39_amb_temp_23.5C_liq_temp_22.0C/Area Scan (81x111x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0444 W/kg

Right-Hand-Side HSL - Bluetooth/Touch Position - Bluetooth_chan39_amb_temp_23.5C_liq_temp_22.0C/Zoom Scan (36x36x36)/Cube 0:
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 4.560 V/m; **Power Drift = 0.015 dB**

Averaged SAR: SAR(1g) = 0.0344 W/kg; SAR(10g) = 0.0163 W/kg
Maximum value of SAR (interpolated) = 0.0719 W/kg

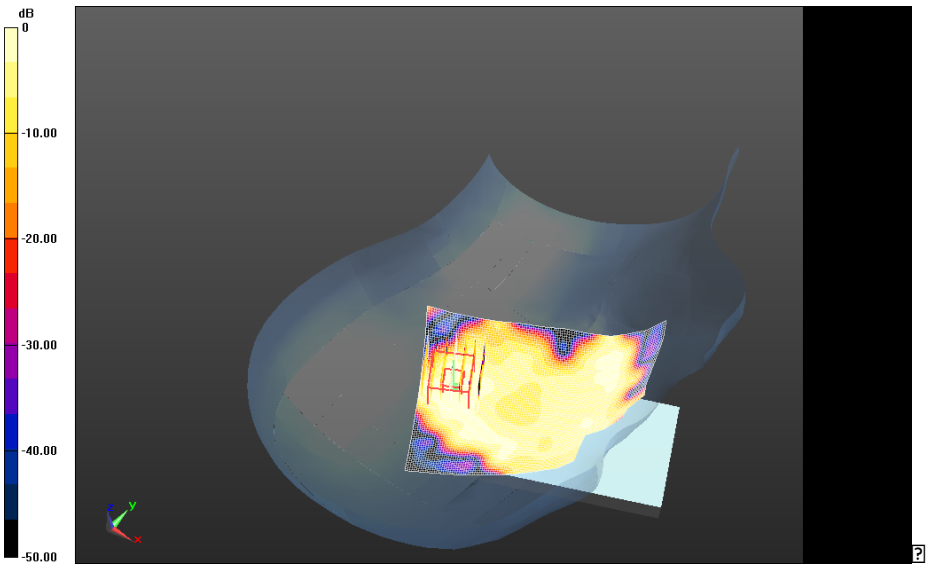


0 dB = 0.0446 W/kg = -13.51 dBW/kg

Right-Hand-Side HSL - Bluetooth/Tilt Position - Bluetooth_chan39_amb_temp_23.5C_liq_temp_22.0C/Area Scan (81x111x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.00623 W/kg

Right-Hand-Side HSL - Bluetooth/Tilt Position - Bluetooth_chan39_amb_temp_23.5C_liq_temp_22.0C/Zoom Scan (31x31x36)/Cube 0:
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 1.560 V/m; **Power Drift = -0.080 dB**

Averaged SAR: SAR(1g) = 0.00514 W/kg; SAR(10g) = 0.00256 W/kg
Maximum value of SAR (interpolated) = 0.0102 W/kg



0 dB = 0.0446 W/kg = -13.51 dBW/kg

Date: 3/21/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB02A54

Configuration: Left-Hand-Side HSL - Bluetooth

Communication System: Bluetooth; Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 2441 MHz
Medium Parameters used: f=2441 MHz; σ = 1.828 S/m; ε_r = 37.721; ρ = 1.000 g/cm^3
Phantom section: Left Section

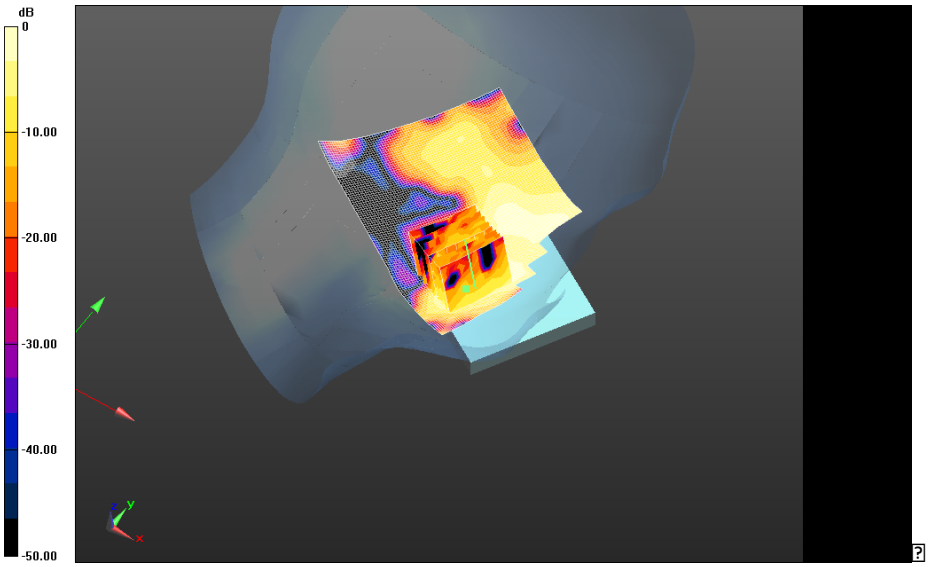
DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (4.65,4.65,4.65); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Left-Hand-Side HSL - Bluetooth/Touch Position - Bluetooth_chan39_amb_temp_23.5C_liq_temp_22.0C/Area Scan (81x111x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0209 W/kg

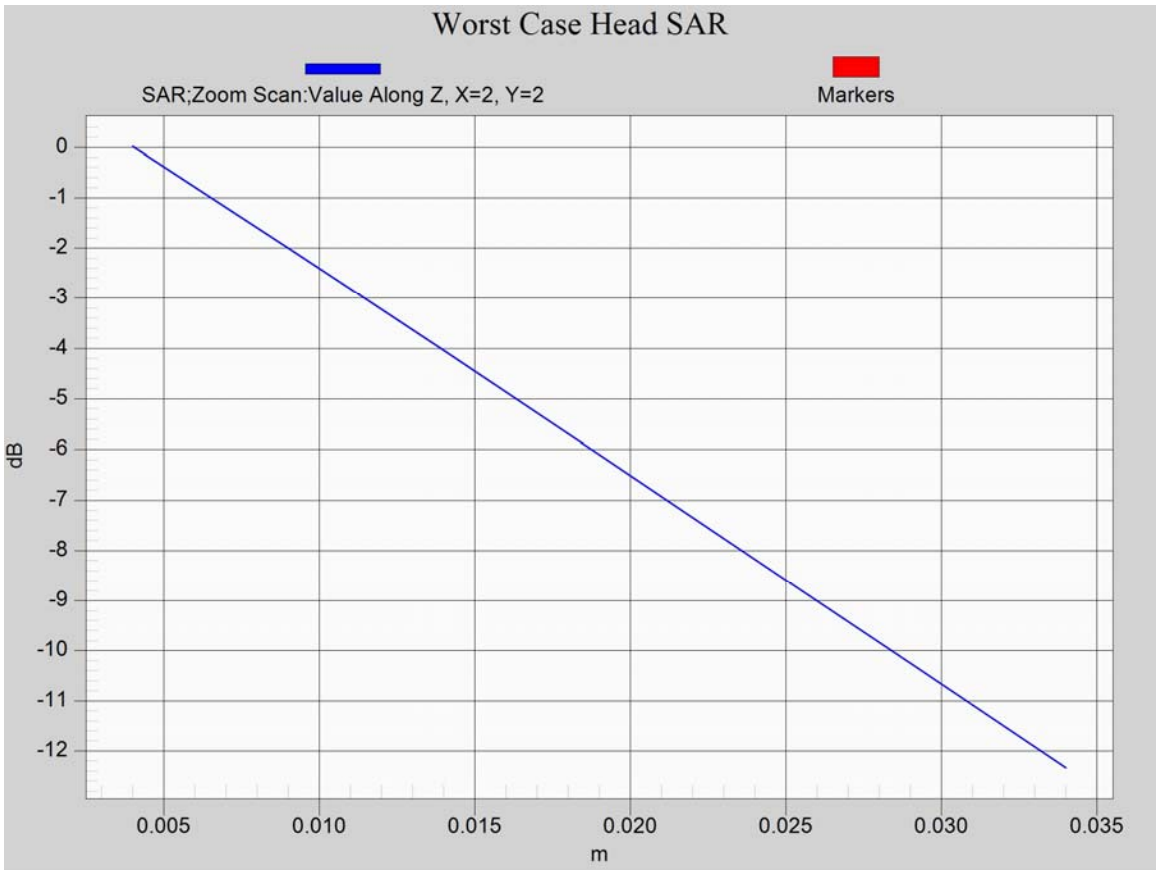
Left-Hand-Side HSL - Bluetooth/Touch Position - Bluetooth_chan39_amb_temp_23.5C_liq_temp_22.0C/Zoom Scan (36x36x36)/Cube 0:
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 3.380 V/m; **Power Drift = 0.191 dB**

Averaged SAR: SAR(1g) = 0.0155 W/kg; SAR(10g) = 0.00822 W/kg
Maximum value of SAR (interpolated) = 0.0343 W/kg



0 dB = 0.0198 W/kg = -17.03 dBW/kg

Z axis plot for the worst case head configuration



Model: RFT81UW

DTM 850

Date: 3/13/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB02B80

Configuration: Right-Hand-Side HSL - DTM 850

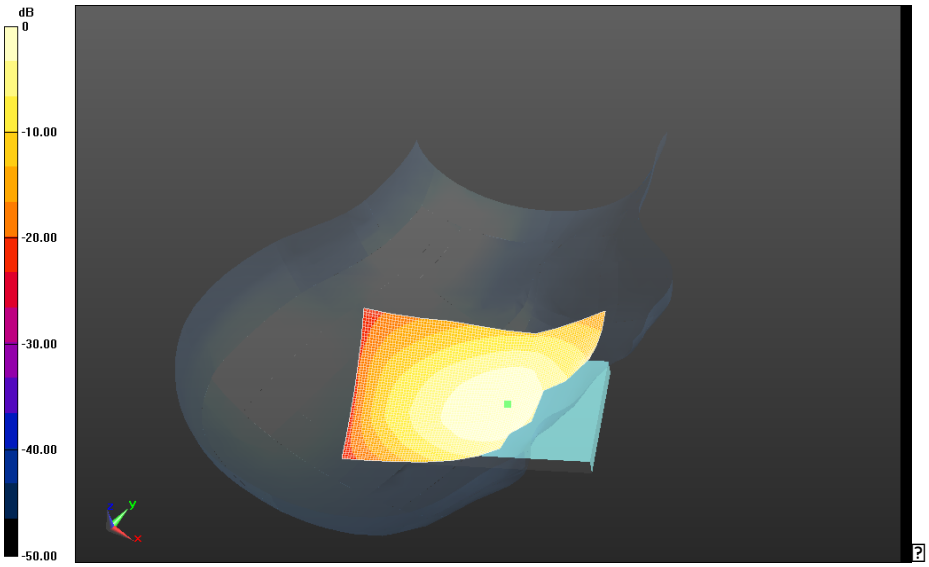
Communication System: DTM 850 (3 slots); Communication System Band: DTM 850 (3 slots); Frequency: 824.2 MHz
Medium Parameters used: f=825 MHz; σ = 0.878 S/m; ε_r = 40.641; ρ = 1.000 g/cm^3
Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.19,6.19,6.19); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Right-Hand-Side HSL - DTM 850/Touch Position -DTM850_3-Slots_chan128_amb_temp_23.5C_liq_temp_20.9C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 10.355 V/m; **Power Drift = -0.127 dB**

Fast SAR: SAR(1g) = 0.678 W/kg; SAR(10g) = 0.458 W/kg
Maximum value of SAR (interpolated) = 0.778 W/kg



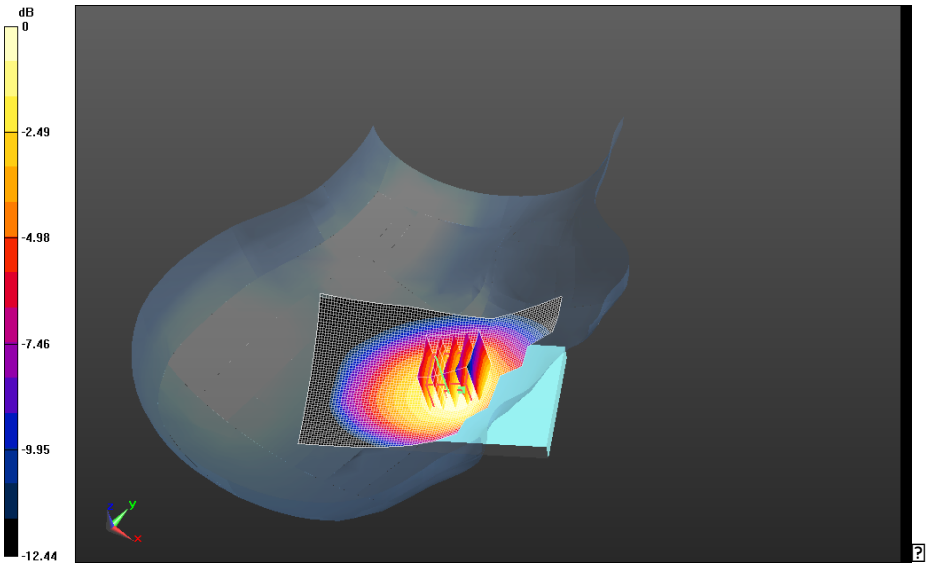
0 dB = 0.778 W/kg = -1.09 dBW/kg

Right-Hand-Side HSL - DTM 850/Touch Position - DTM850_3-Slots_chan190_amb_temp_23.3C_liq_temp_20.9C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 11.626 V/m; **Power Drift = 0.074 dB**

Right-Hand-Side HSL - DTM 850/Touch Position - DTM850_3-Slots_chan190_amb_temp_23.3C_liq_temp_20.9C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 11.626 V/m; **Power Drift = 0.074 dB**

Averaged SAR: SAR(1g) = 0.827 W/kg; SAR(10g) = 0.616 W/kg
Maximum value of SAR (interpolated) = 1.02 W/kg

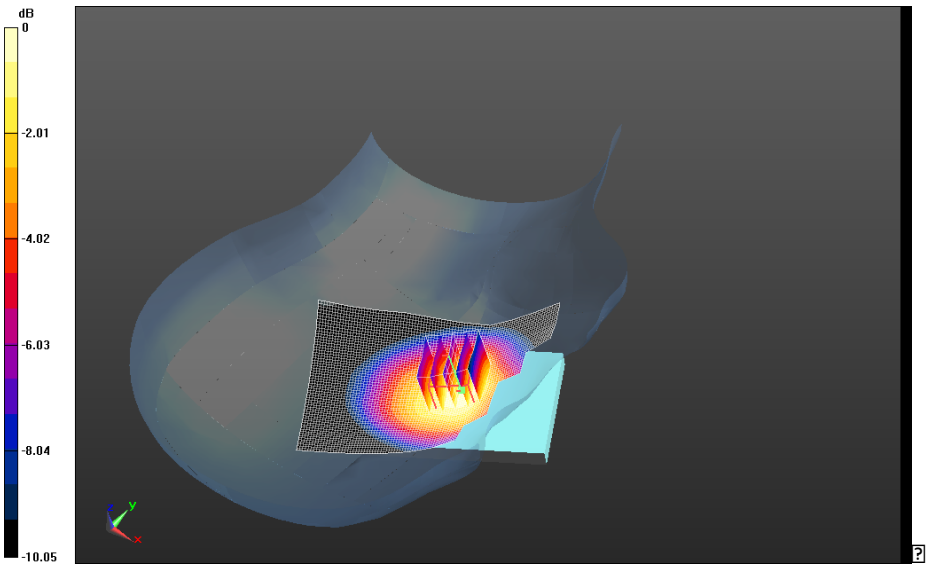


0 dB = 0.872 W/kg = -0.59 dBW/kg

Right-Hand-Side HSL - DTM 850/Touch Position - DTM850_3-Slots_chan190_2nd_Scan_amb_temp_23.9C_liq_temp_21.2C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 10.906 V/m; **Power Drift = 0.145 dB**

Right-Hand-Side HSL - DTM 850/Touch Position - DTM850_3-Slots_chan190_2nd_Scan_amb_temp_23.9C_liq_temp_21.2C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 10.906 V/m; **Power Drift = 0.145 dB**

Averaged SAR: SAR(1g) = 0.779 W/kg; SAR(10g) = 0.582 W/kg
Maximum value of SAR (interpolated) = 0.952 W/kg

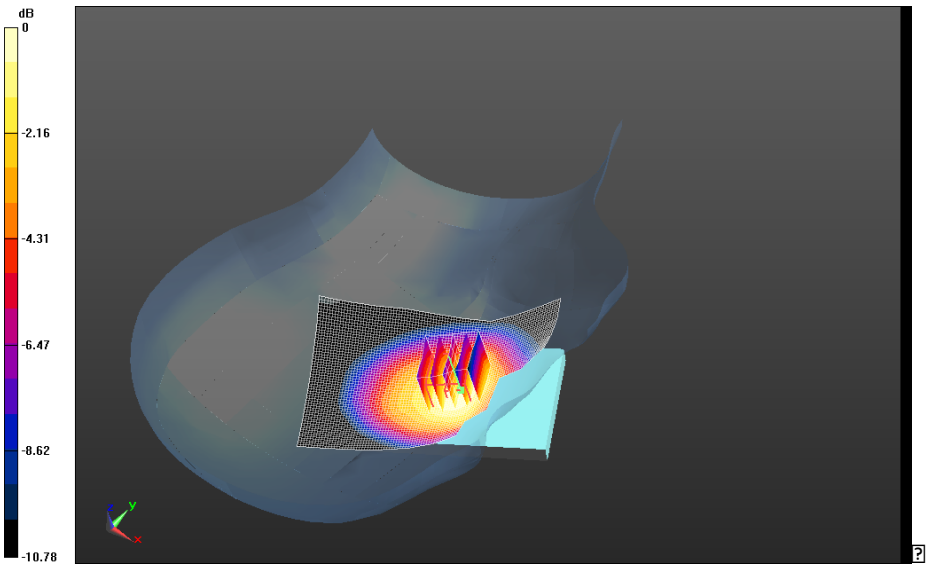


0 dB = 0.902 W/kg = -0.45 dBW/kg

Right-Hand-Side HSL - DTM 850/Touch Position - DTM850_3-Slots_chan251_amb_temp_23.5C_liq_temp_20.9C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 11.137 V/m; **Power Drift = 0.068 dB**

Right-Hand-Side HSL - DTM 850/Touch Position - DTM850_3-Slots_chan251_amb_temp_23.5C_liq_temp_20.9C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 11.137 V/m; **Power Drift = 0.068 dB**

Averaged SAR: SAR(1g) = 0.798 W/kg; SAR(10g) = 0.595 W/kg
Maximum value of SAR (interpolated) = 0.979 W/kg



0 dB = 0.842 W/kg = -0.75 dBW/kg

UMTS Band V

Date: 3/19/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB02B80

Configuration: Right-Hand-Side HSL - UMTS Band V

Communication System: WCDMA FDD V; Communication System Band: UMTS band V;
Frequency: 836.4 MHz
Medium Parameters used: f=836.4 MHz; σ = 0.933 S/m; ε_r = 43.191; ρ = 1.000 g/cm^3
Phantom section: Right Section

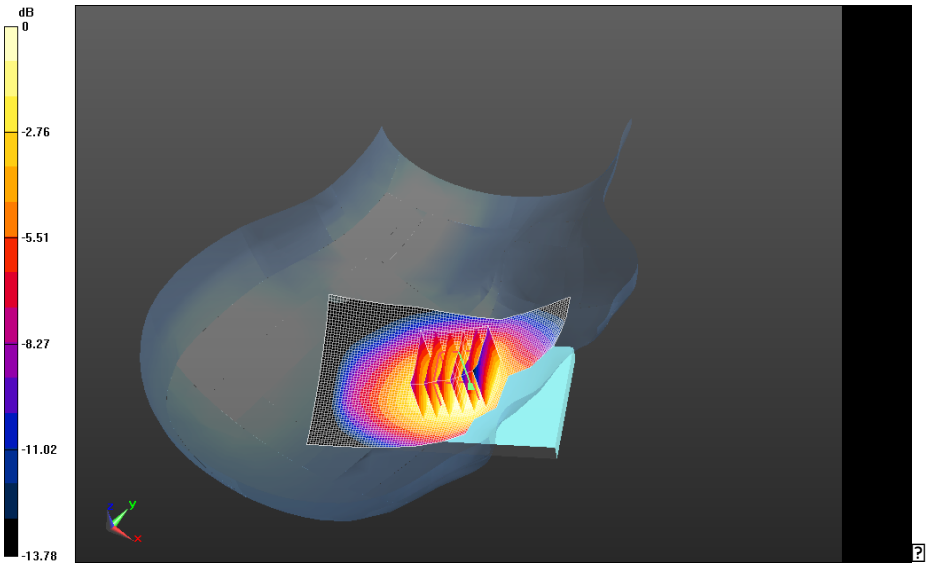
DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.19,6.19,6.19); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Right-Hand-Side HSL - UMTS Band V/Touch Position - UMTS_Band_V_chan4182_amb_temp_23.4C_liq_temp_21.3C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 9.203 V/m; **Power Drift = -0.188 dB**

Right-Hand-Side HSL - UMTS Band V/Touch Position - UMTS_Band_V_chan4182_amb_temp_23.4C_liq_temp_21.3C/Zoom Scan (26x26x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 9.203 V/m; **Power Drift = -0.188 dB**

Averaged SAR: SAR(1g) = 0.494 W/kg; SAR(10g) = 0.367 W/kg
Maximum value of SAR (interpolated) = 0.608 W/kg



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

Date: 3/19/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB02B80

Configuration: Left-Hand-Side HSL - UMTS Band V

Communication System: WCDMA FDD V; Communication System Band: UMTS band V;
Frequency: 836.4 MHz
Medium Parameters used: f=836.4 MHz; σ = 0.933 S/m; ε_r = 43.191; ρ = 1.000 g/cm^3
Phantom section: Left Section

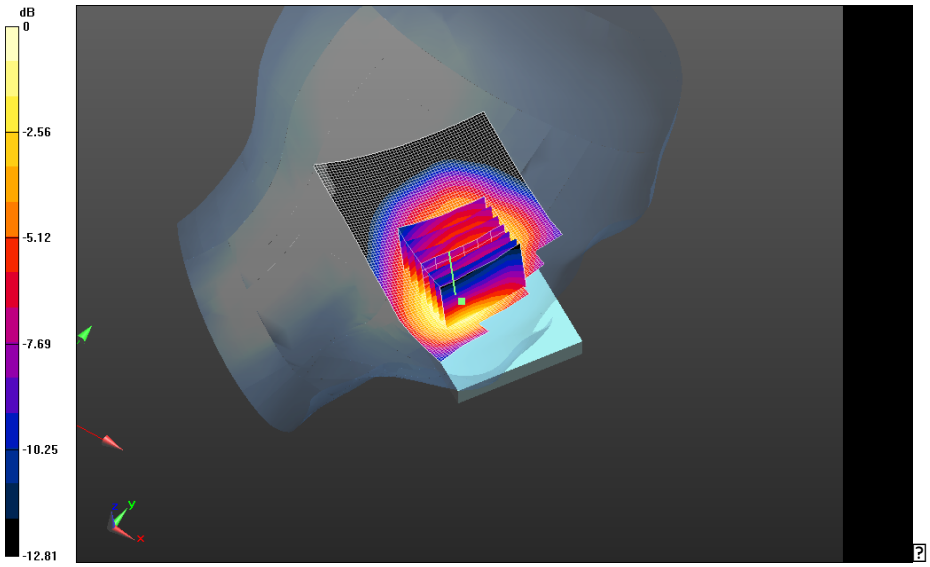
DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.19,6.19,6.19); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Left-Hand-Side HSL - UMTS Band V/Touch Position - UMTS_Band_V_chan4182_amb_temp_23.4C_liq_temp_21.5C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 9.754 V/m; **Power Drift = 0.051 dB**

Left-Hand-Side HSL - UMTS Band V/Touch Position - UMTS_Band_V_chan4182_amb_temp_23.4C_liq_temp_21.5C/Zoom Scan (31x31x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 9.754 V/m; **Power Drift = 0.051 dB**

Averaged SAR: SAR(1g) = 0.505 W/kg; SAR(10g) = 0.361 W/kg
Maximum value of SAR (interpolated) = 0.718 W/kg



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

DTM 1900

Date: 3/25/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB02B80

Configuration: Right-Hand-Side HSL - DTM 1900

Communication System: DTM 1900; Communication System Band: DTM 1900; Frequency: 1850.2 MHz
Medium Parameters used: f=1850.2 MHz; σ = 1.371 S/m; ε_r = 38.516; ρ = 1.000 g/cm^3
Phantom section: Right Section

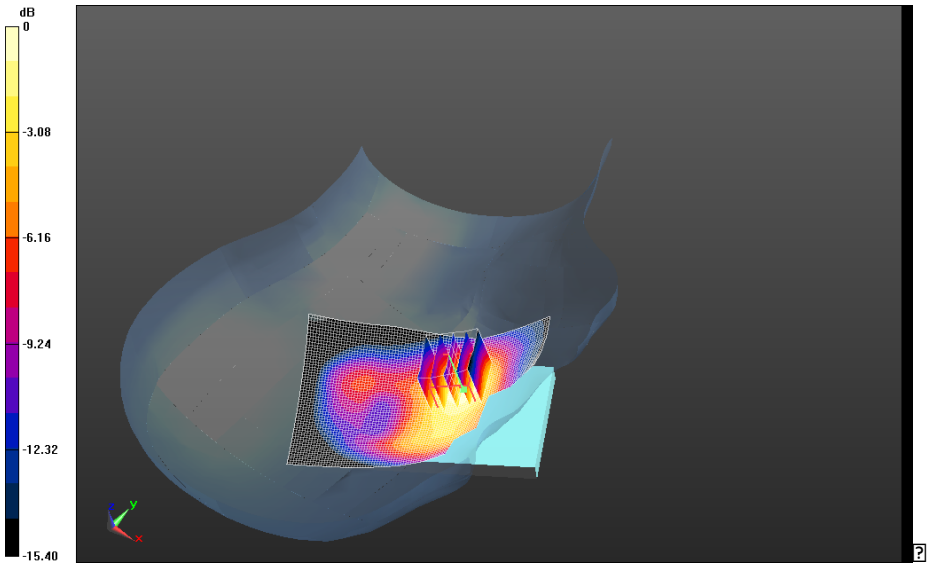
DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Right-Hand-Side HSL - DTM 1900/Touch Position - DTM1900_chan512_amb_temp_23.2C_liq_temp_22.0C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 11.009 V/m; **Power Drift = 0.036 dB**

Right-Hand-Side HSL - DTM 1900/Touch Position - DTM1900_chan512_amb_temp_23.2C_liq_temp_22.0C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 11.009 V/m; **Power Drift = 0.036 dB**

Averaged SAR: SAR(1g) = 1.06 W/kg; SAR(10g) = 0.650 W/kg
Maximum value of SAR (interpolated) = 1.53 W/kg

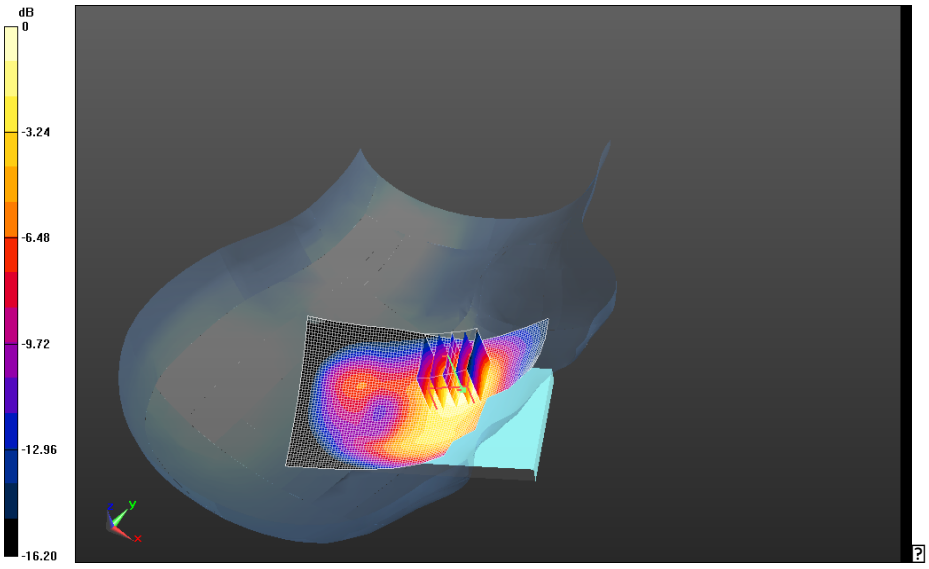


0 dB = 1.23 W/kg = 0.90 dBW/kg

Right-Hand-Side HSL - DTM 1900/Touch Position - DTM1900_chan661_amb_temp_23.2C_liq_temp_22.0C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 11.058 V/m; **Power Drift = -0.073 dB**

Right-Hand-Side HSL - DTM 1900/Touch Position - DTM1900_chan661_amb_temp_23.2C_liq_temp_22.0C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 11.058 V/m; **Power Drift = -0.073 dB**

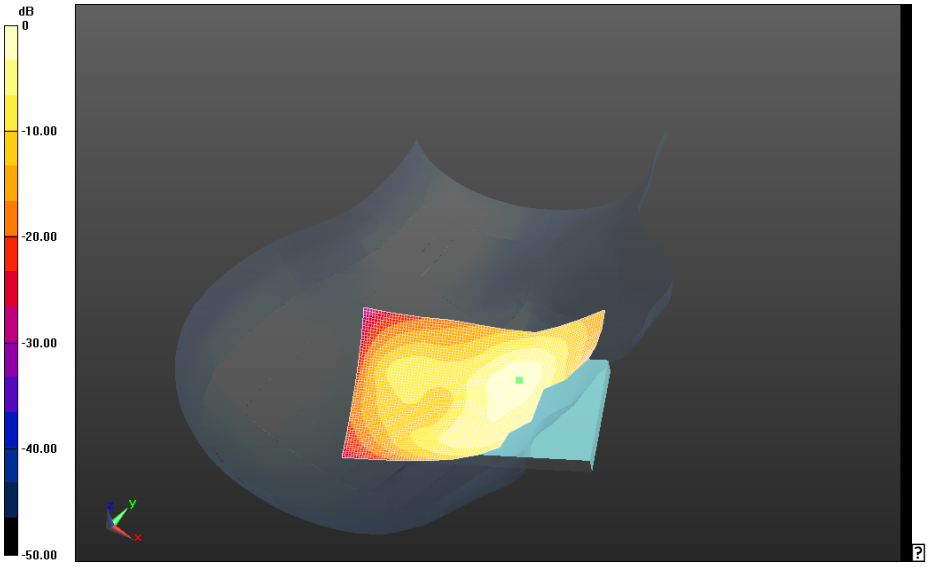
Averaged SAR: SAR(1g) = 1.02 W/kg; SAR(10g) = 0.615 W/kg
Maximum value of SAR (interpolated) = 1.49 W/kg



0 dB = 1.23 W/kg = 0.90 dBW/kg

Right-Hand-Side HSL - DTM 1900/Touch Position - DTM1900_chan810_amb_temp_23.2C_liq_temp_22.0C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 9.748 V/m; **Power Drift = -0.020 dB**

Fast SAR: SAR(1g) = 0.974 W/kg; SAR(10g) = 0.521 W/kg; Secondary SAR(1g) = 0.199 W/kg
Maximum value of SAR (interpolated) = 1.26 W/kg



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

Date: 3/25/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB02B80

Configuration: Left-Hand-Side HSL - DTM 1900

Communication System: DTM 1900; Communication System Band: DTM 1900; Frequency: 1850.2 MHz
Medium Parameters used: f=1850.2 MHz; σ = 1.371 S/m; ε_r = 38.516; ρ = 1.000 g/cm^3
Phantom section: Left Section

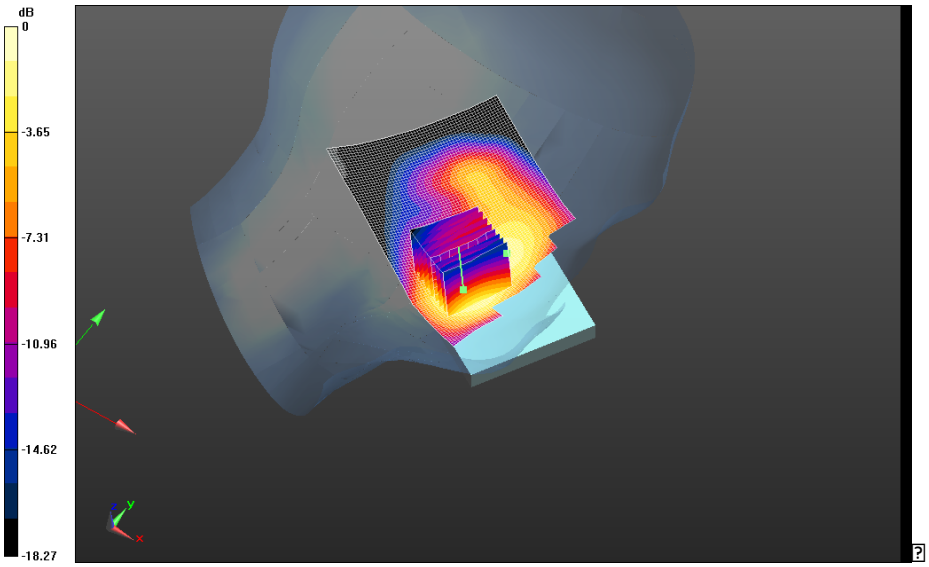
DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Left-Hand-Side HSL - DTM 1900/Touch Position - DTM1900_chan512_amb_temp_23.2C_liq_temp_22.0C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 9.529 V/m; **Power Drift = 0.278 dB**

Left-Hand-Side HSL - DTM 1900/Touch Position - DTM1900_chan512_amb_temp_23.2C_liq_temp_22.0C/Zoom Scan (36x36x36)/Cube 0:
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 9.529 V/m; **Power Drift = 0.278 dB**

Averaged SAR: SAR(1g) = 1.17 W/kg; SAR(10g) = 0.712 W/kg
Maximum value of SAR (interpolated) = 1.85 W/kg

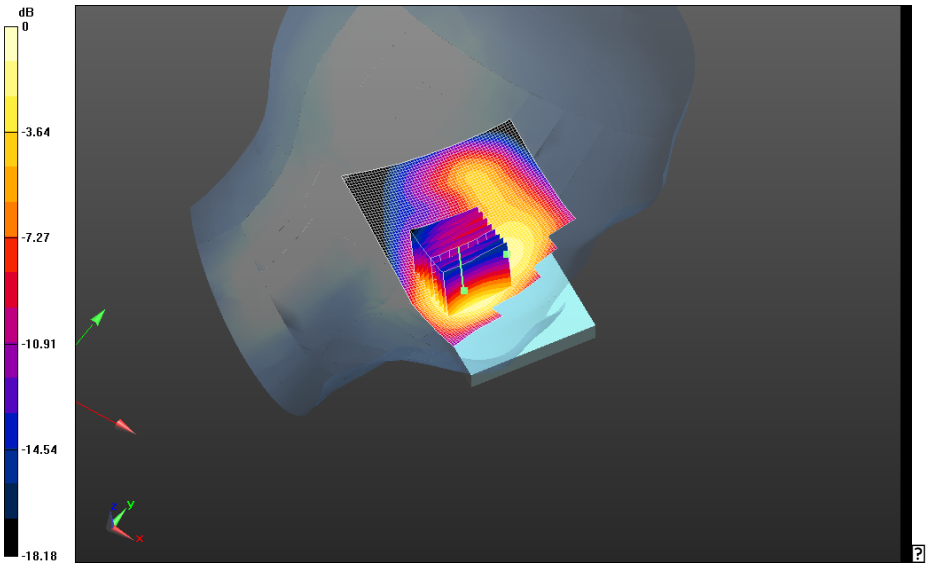


0 dB = 1.29 W/kg = 1.11 dBW/kg

Left-Hand-Side HSL - DTM 1900/Touch Position - DTM1900_chan512_2nd_Scan_amb_temp_23.2C_liq_temp_22.0C/Area Scan (61x81x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 9.996 V/m; **Power Drift = -0.039 dB**

Left-Hand-Side HSL - DTM 1900/Touch Position - DTM1900_chan512_2nd_Scan_amb_temp_23.2C_liq_temp_22.0C/Zoom Scan (36x36x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 9.996 V/m; **Power Drift = -0.039 dB**

Averaged SAR: SAR(1g) = 1.13 W/kg; SAR(10g) = 0.687 W/kg
Maximum value of SAR (interpolated) = 1.78 W/kg

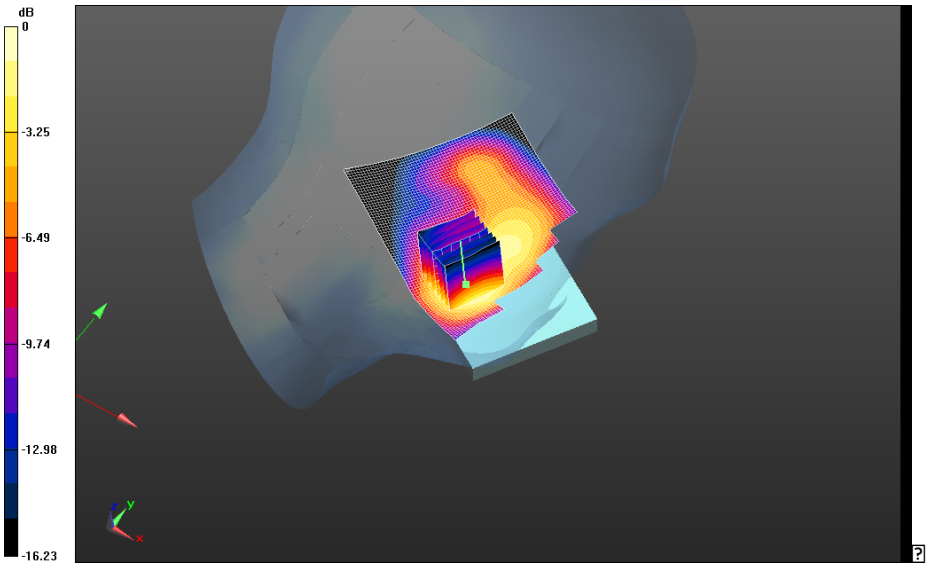


0 dB = 1.29 W/kg = 1.11 dBW/kg

Left-Hand-Side HSL - DTM 1900/Touch Position - DTM1900_chan661_amb_temp_23.2C_liq_temp_22.0C/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 9.259 V/m; **Power Drift = 0.121 dB**

Left-Hand-Side HSL - DTM 1900/Touch Position - DTM1900_chan661_amb_temp_23.2C_liq_temp_22.0C/Zoom Scan (31x31x36)/Cube 0:
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 9.259 V/m; **Power Drift = 0.121 dB**

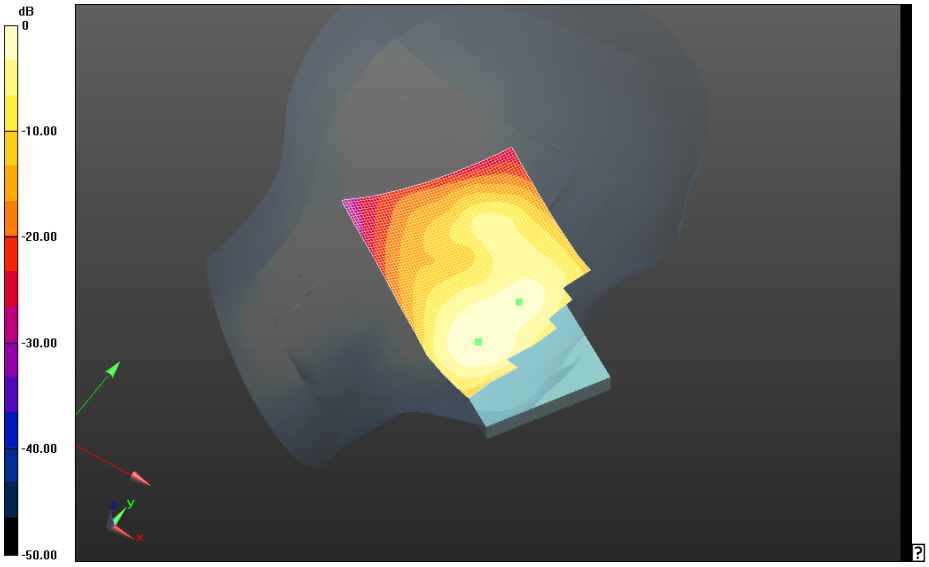
Averaged SAR: SAR(1g) = 1.14 W/kg; SAR(10g) = 0.689 W/kg
Maximum value of SAR (interpolated) = 1.81 W/kg



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

Left-Hand-Side HSL - DTM 1900/Touch Position - DTM1900_chan810_amb_temp_23.2C_liq_temp_22.0C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.893 V/m; **Power Drift = -0.089 dB**

Fast SAR: SAR(1g) = 1.06 W/kg; SAR(10g) = 0.611 W/kg; Secondary SAR(1g) = 0.345 W/kg
Maximum value of SAR (interpolated) = 1.29 W/kg



0 dB = 1.26 W/kg = 1.00 dBW/kg

UMTS Band II

Date: 4/19/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2FFF9A4D

Configuration: Left-Hand-Side HSL - UMTS Band II

Communication System: WCDMA FDD II; Communication System Band: UMTS FDD II; Frequency: 1852.4 MHz
Medium Parameters used: f=1852.4 MHz; σ = 1.333 S/m; ε_r = 38.957; ρ = 1.000 g/cm^3
Phantom section: Left Section

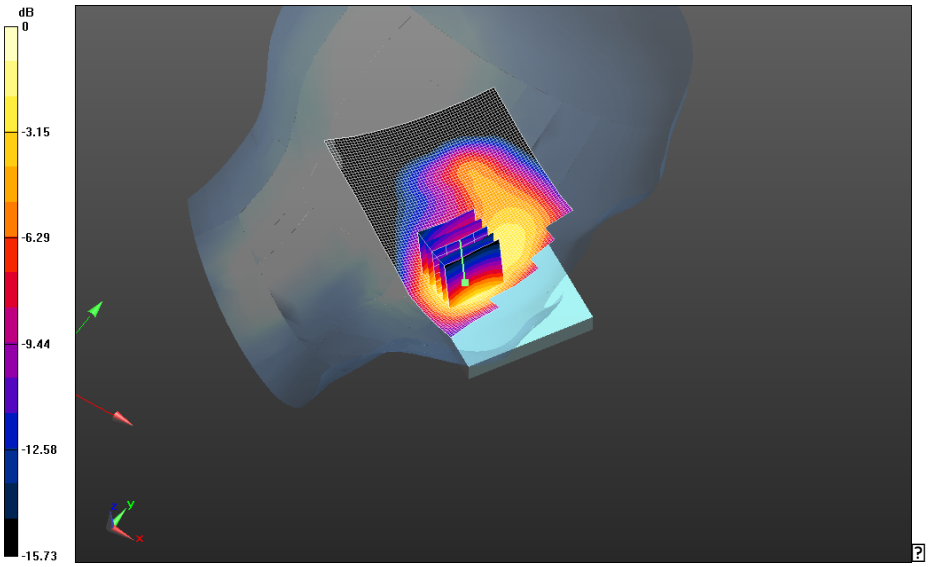
DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Left-Hand-Side HSL - UMTS Band II/Touch Position - UMTS_Band_II_chan9262_amb_temp_23.4C_liq_temp_21.6C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.48 W/kg

Left-Hand-Side HSL - UMTS Band II/Touch Position - UMTS_Band_II_chan9262_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 = 9.375 V/m; **Power Drift = 0.024 dB**

Averaged SAR: SAR(1g) = 1.24 W/kg; SAR(10g) = 0.746 W/kg
Maximum value of SAR (interpolated) = 1.93 W/kg

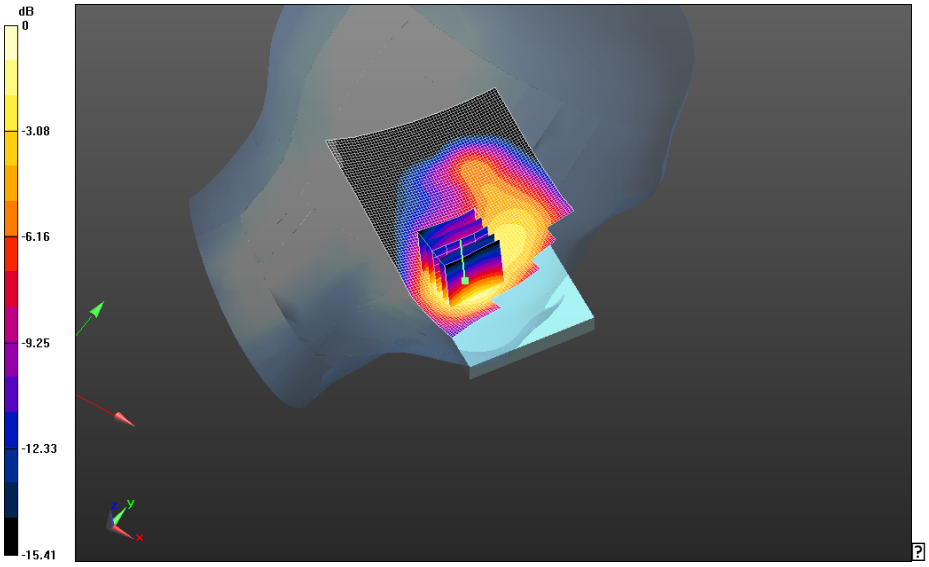


0 dB = 1.49 W/kg = 1.73 dBW/kg

Left-Hand-Side HSL - UMTS Band II/Touch Position - UMTS_Band_II_chan9400_amb_temp_23.5C_liq_temp_21.6C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.68 W/kg

Left-Hand-Side HSL - UMTS Band II/Touch Position - UMTS_Band_II_chan9400_amb_temp_23.5C_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 = 8.921 V/m; **Power Drift = 0.0002 dB**

Averaged SAR: SAR(1g) = 1.38 W/kg; SAR(10g) = 0.828 W/kg
Maximum value of SAR (interpolated) = 2.12 W/kg

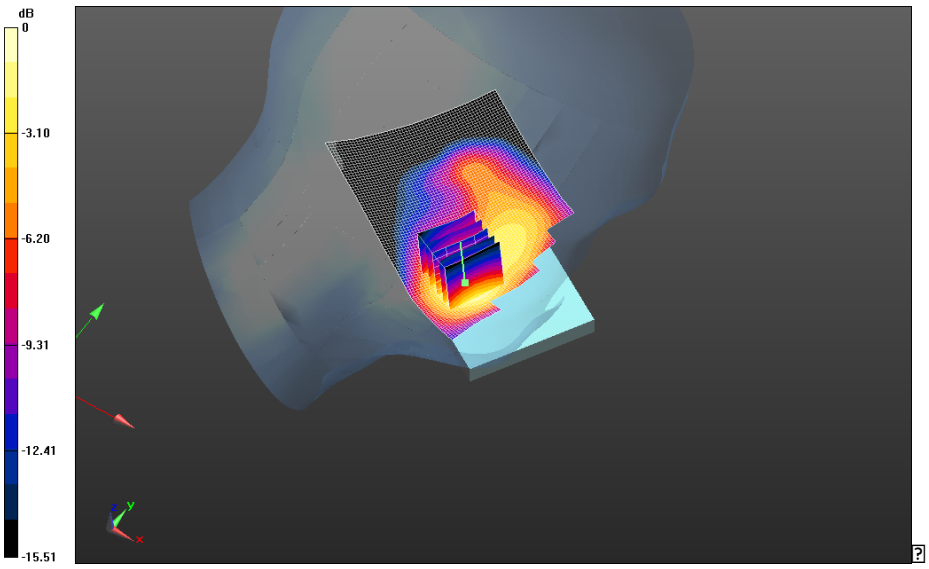


0 dB = 1.49 W/kg = 1.73 dBW/kg

Left-Hand-Side HSL - UMTS Band II/Touch Position - UMTS_Band_II_chan9400_amb_temp_23.5C_liq_temp_21.6C_2nd_Scan/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.65 W/kg

Left-Hand-Side HSL - UMTS Band II/Touch Position - UMTS_Band_II_chan9400_amb_temp_23.5C_liq_temp_21.6C_2nd_Scan/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 8.816 V/m; **Power Drift = 0.010 dB**

Averaged SAR: SAR(1g) = 1.38 W/kg; SAR(10g) = 0.830 W/kg
Maximum value of SAR (interpolated) = 2.12 W/kg

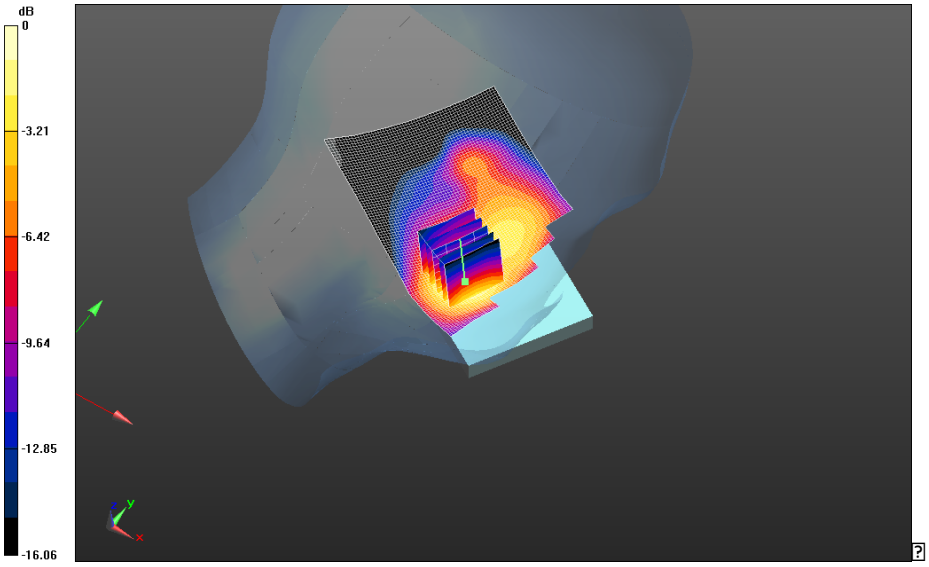


0 dB = 1.64 W/kg = 2.15 dBW/kg

Left-Hand-Side HSL - UMTS Band II/Touch Position - UMTS_Band_II_chan9538_amb_temp_23.5C_liq_temp_21.6C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.46 W/kg

Left-Hand-Side HSL - UMTS Band II/Touch Position - UMTS_Band_II_chan9538_amb_temp_23.5C_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 = 6.246 V/m; **Power Drift = -0.012 dB**

Averaged SAR: SAR(1g) = 1.23 W/kg; SAR(10g) = 0.719 W/kg
Maximum value of SAR (interpolated) = 1.92 W/kg



0 dB = 1.65 W/kg = 2.17 dBW/kg

Z axis plot for the worst case head configuration