APPENDIX C2: SAR DISTRIBUTION PLOTS FOR MOBILE HOT SPOT

Date/Time: 7/24/2012 10:01:35 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_GPRS850_low_chan_amb_temp_23.1_liq_temp_25.2C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A4A5839

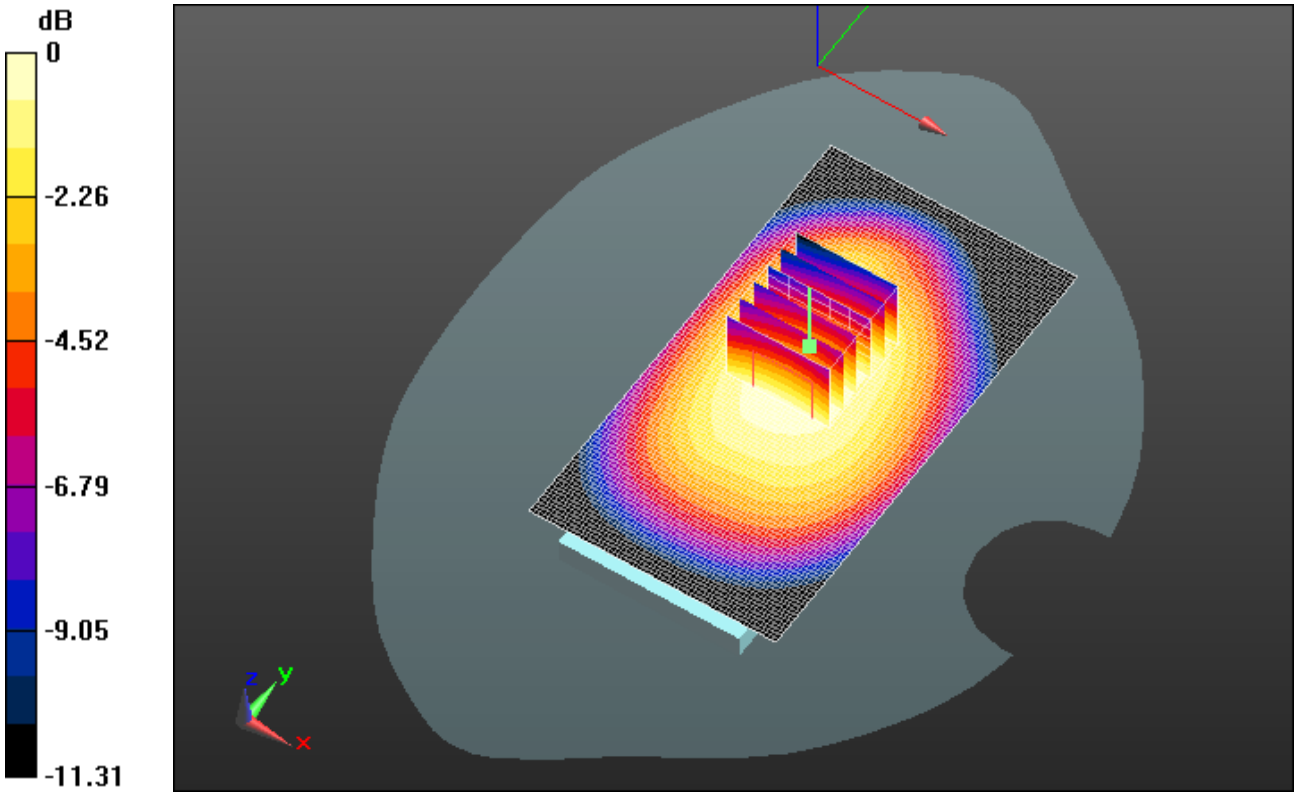
Communication System: GPRS 850; Frequency: 824.2 MHz
Medium parameters used: f = 825 MHz; σ = 0.955 mho/m; ε_r = 53.808; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.104 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 32.276 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 1.2990
SAR(1 g) = 0.984 mW/g; SAR(10 g) = 0.743 mW/g
Maximum value of SAR (measured) = 1.083 mW/g



0 dB = 1.080mW/g = 0.67 dB mW/g

Date/Time: 7/24/2012 9:09:22 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_GPRS850_mid_chan_amb_temp_23.1_liq_temp_25.2C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A4A5839

Communication System: GPRS 850; Frequency: 836.8 MHz
Medium parameters used (interpolated): f = 836.8 MHz; σ = 0.978 mho/m; ε_r = 53.784; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

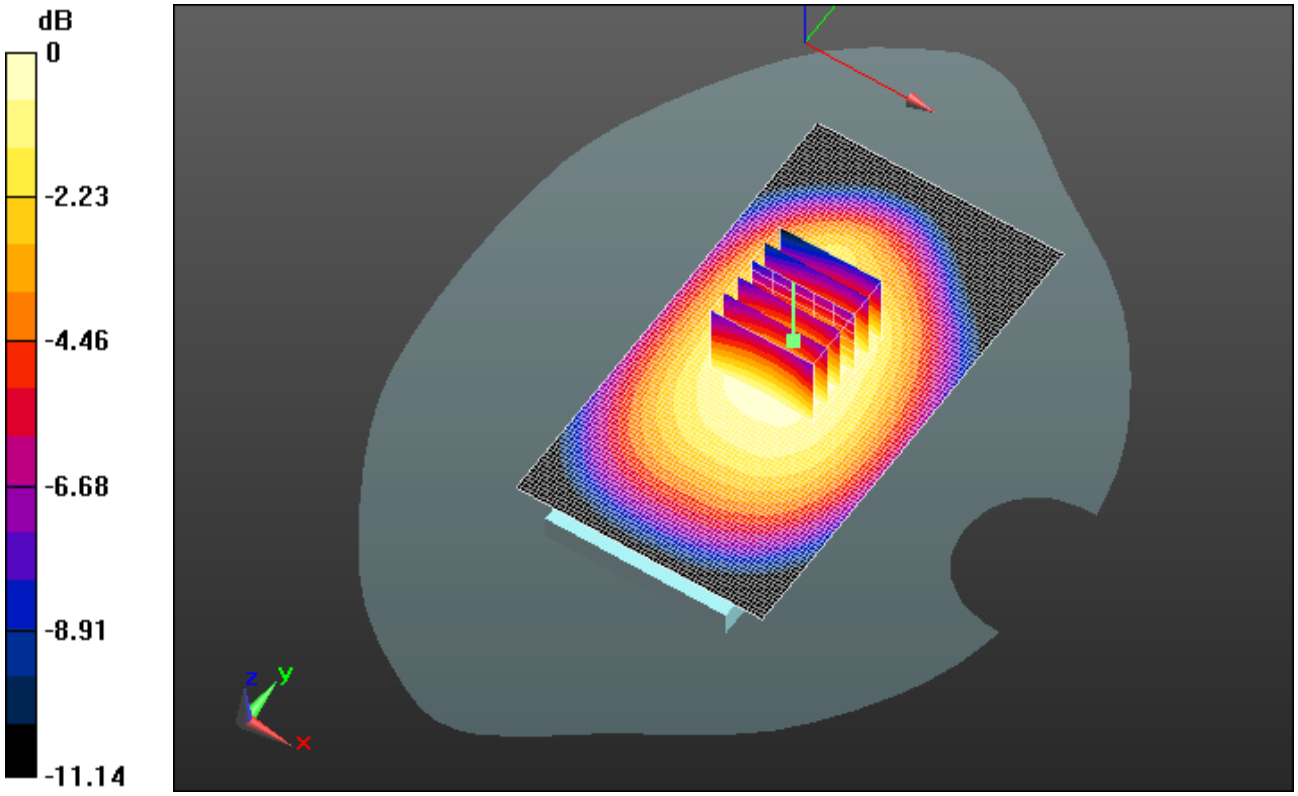
- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 1.155 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 33.156 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.3650
SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.789 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.148 mW/g



0 dB = 1.150mW/g = 1.21 dB mW/g

Date/Time: 7/24/2012 10:25:40 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_GPRS850_high_chan_amb_temp_23.0_liq_temp_25.2C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A4A5839

Communication System: GPRS 850; Frequency: 848.8 MHz
Medium parameters used (interpolated): f = 848.8 MHz; σ = 1.002 mho/m; ε_r = 53.721; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

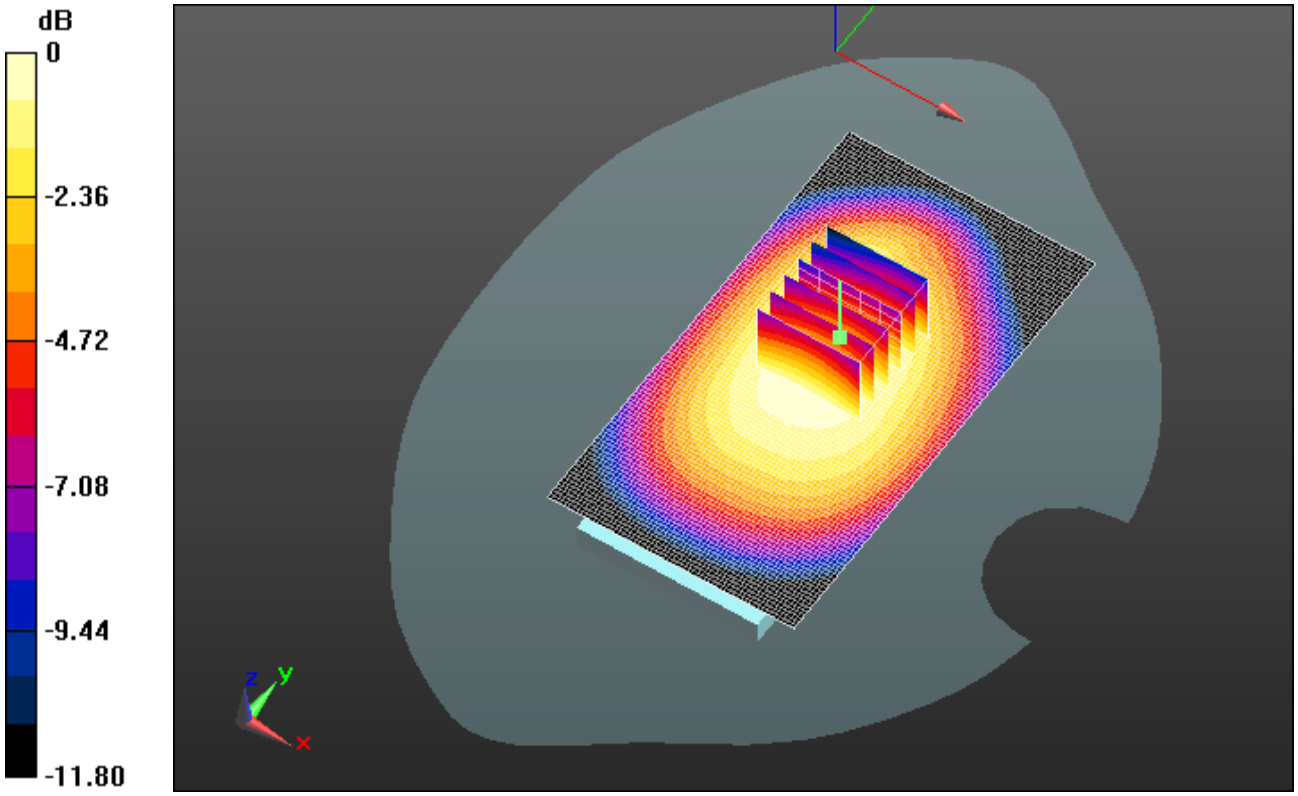
- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 1.095 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 31.188 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 1.2760
SAR(1 g) = 0.971 mW/g; SAR(10 g) = 0.732 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.083 mW/g



0 dB = 1.080mW/g = 0.67 dB mW/g

Date/Time: 7/24/2012 11:13:27 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Front_GPRS850_low_chan_amb_temp_23.0_liq_temp_25.0C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A4A5839

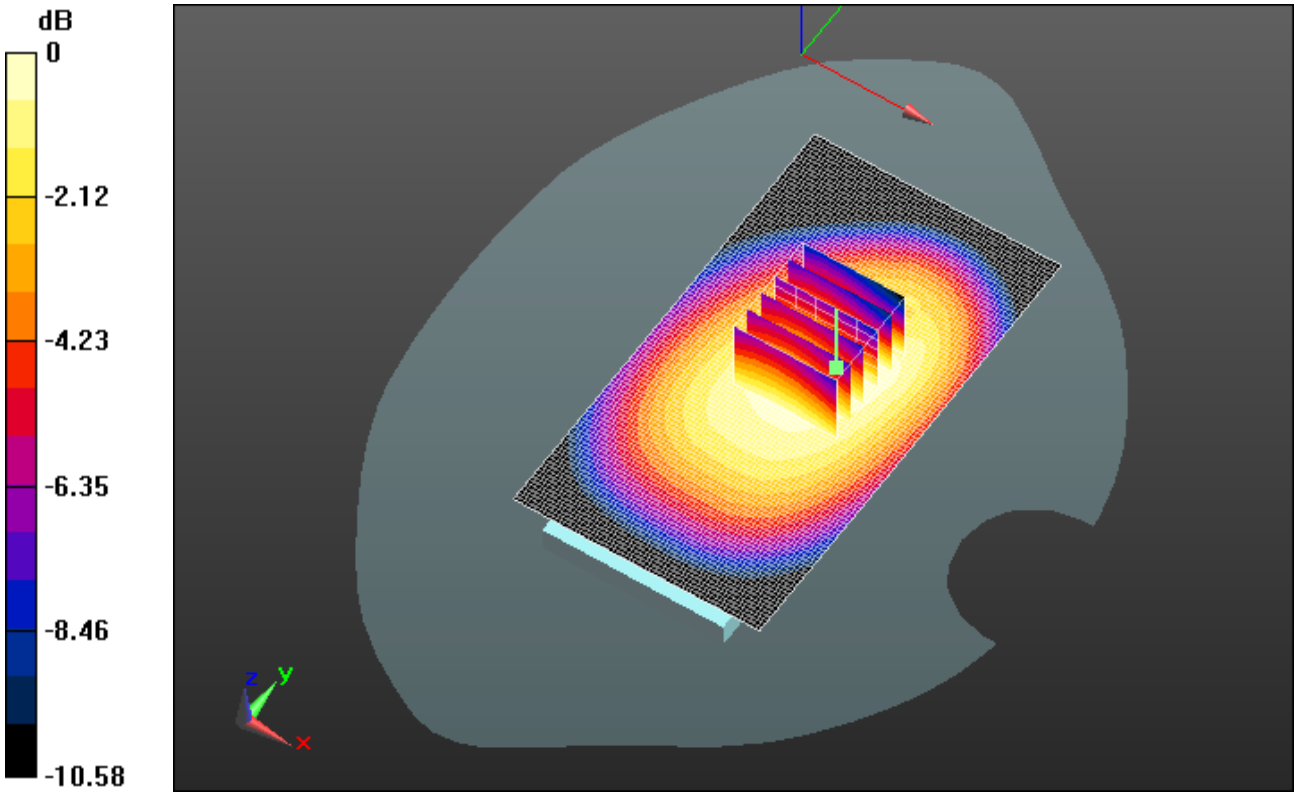
Communication System: GPRS 850; Frequency: 824.2 MHz
Medium parameters used: f = 825 MHz; σ = 0.955 mho/m; ε_r = 53.808; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.021 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 31.059 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 1.2070
SAR(1 g) = 0.928 mW/g; SAR(10 g) = 0.707 mW/g
Maximum value of SAR (measured) = 1.018 mW/g



0 dB = 1.020mW/g = 0.17 dB mW/g

Date/Time: 7/24/2012 10:53:28 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Front_GPRS850_mid_chan_amb_temp_23.0_liq_temp_25.2C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A4A5839

Communication System: GPRS 850; Frequency: 836.8 MHz
Medium parameters used (interpolated): f = 836.8 MHz; σ = 0.978 mho/m; ε_r = 53.784; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

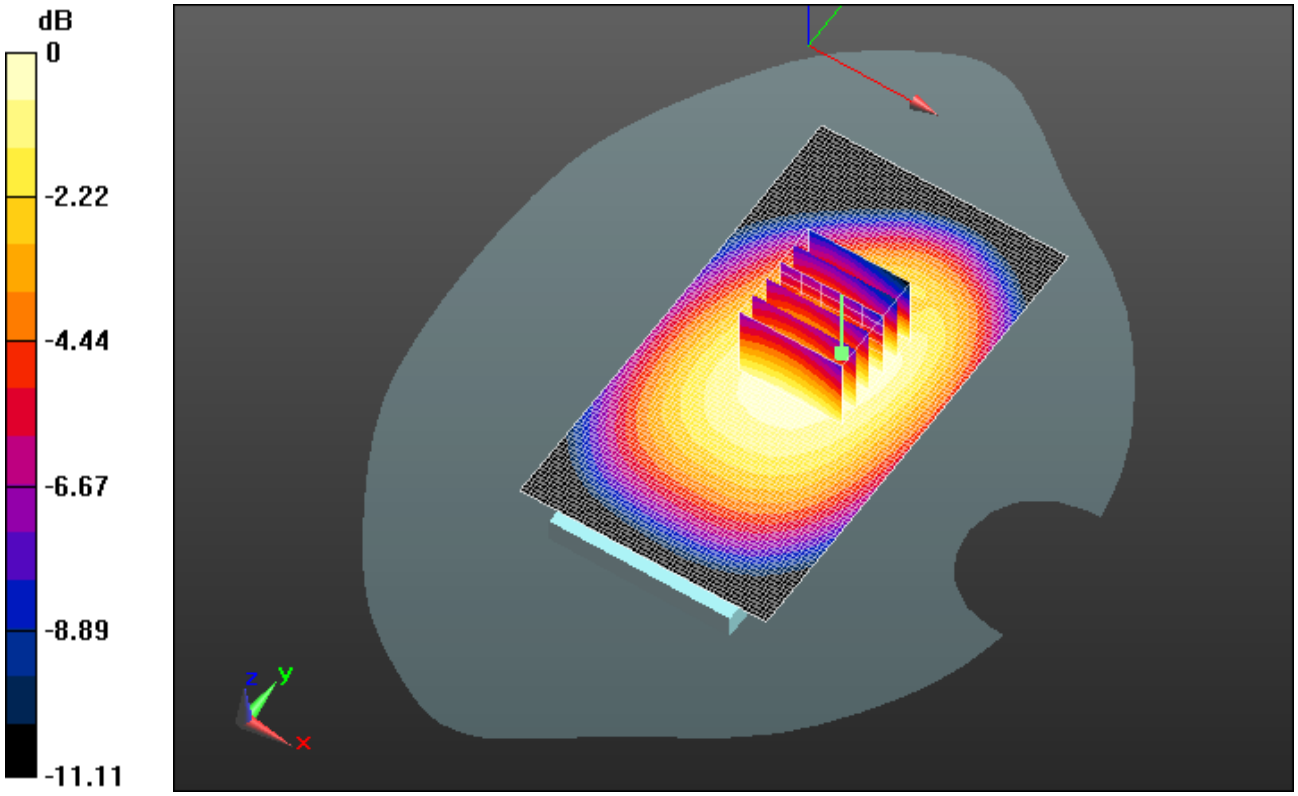
- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 1.069 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 31.266 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 1.2460
SAR(1 g) = 0.960 mW/g; SAR(10 g) = 0.731 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.058 mW/g



0 dB = 1.060mW/g = 0.51 dB mW/g

Date/Time: 7/24/2012 11:32:43 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Front_GPRS850_high_chan_amb_temp_23.0_liq_temp_25.0C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A4A5839

Communication System: GPRS 850; Frequency: 848.8 MHz
Medium parameters used (interpolated): f = 848.8 MHz; σ = 1.002 mho/m; ε_r = 53.721; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

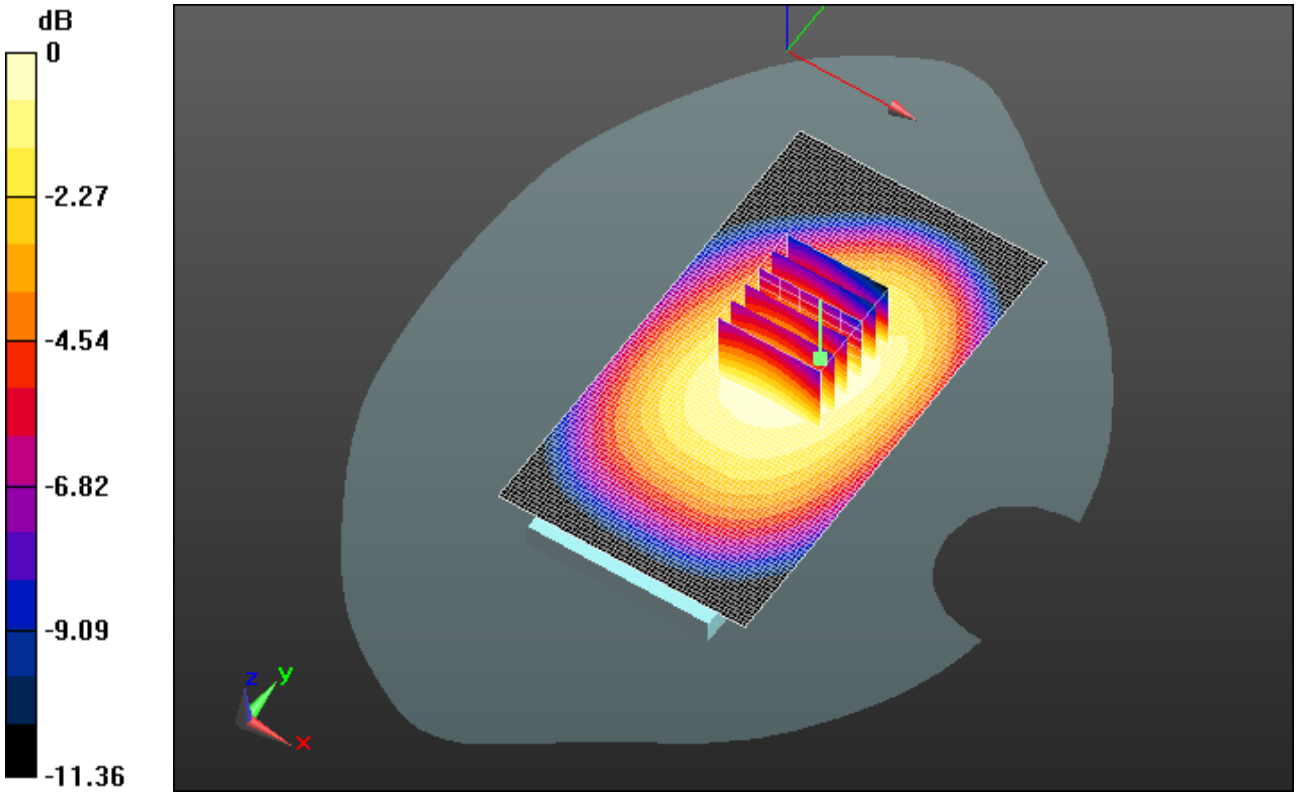
- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 1.053 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 30.892 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 1.2390
SAR(1 g) = 0.951 mW/g; SAR(10 g) = 0.718 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.047 mW/g



0 dB = 1.050mW/g = 0.42 dB mW/g

Date/Time: 7/25/2012 11:11:58 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Left_GPRS850_mid_chan_amb_temp_23.3C_liq_temp_22.6C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A4A5839

Communication System: GPRS 850; Frequency: 836.8 MHz
Medium parameters used (interpolated): f = 836.8 MHz; σ = 0.978 mho/m; ε_r = 53.784; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

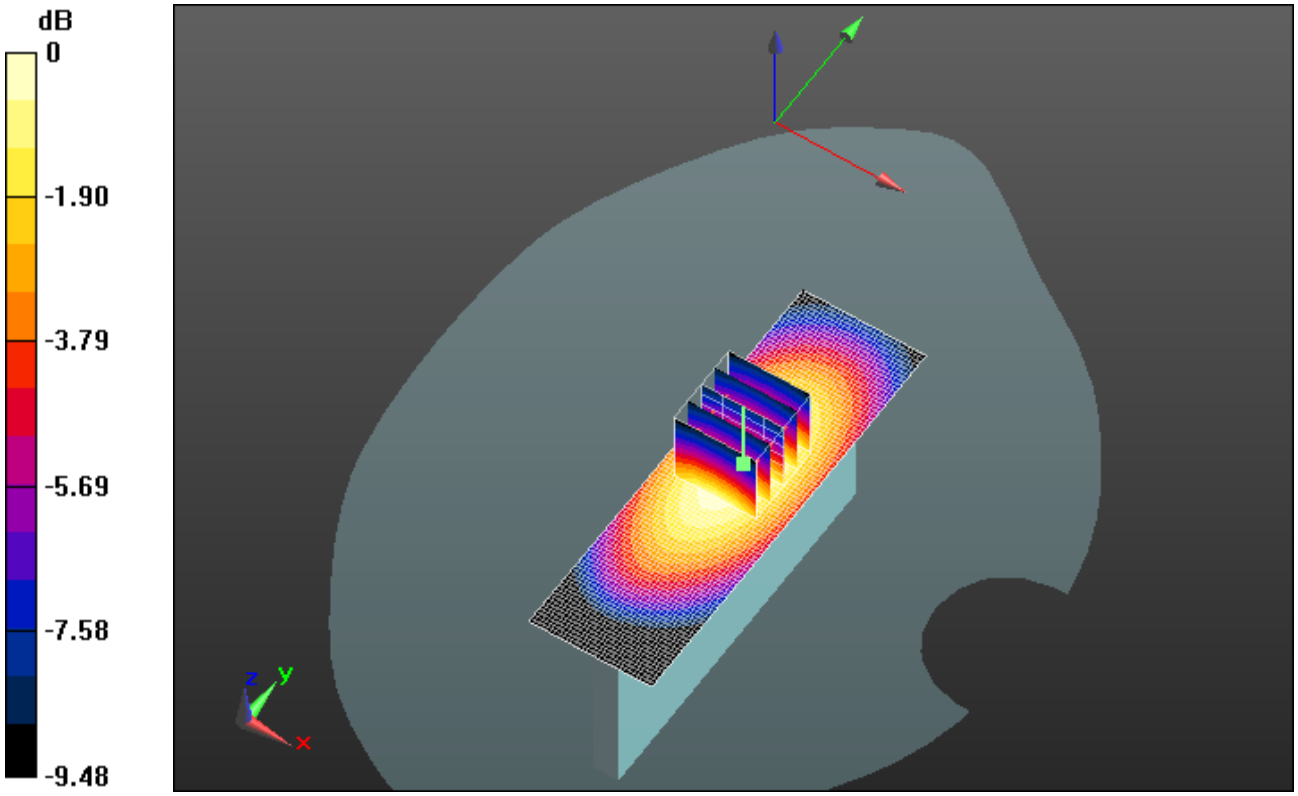
- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (31x101x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.876 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 30.663 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 1.0550
SAR(1 g) = 0.755 mW/g; SAR(10 g) = 0.517 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.870 mW/g



0 dB = 0.870mW/g = -1.21 dB mW/g

Date/Time: 7/25/2012 11:49:52 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Right_GPRS850_low_chan_amb_temp_23.3C_liq_temp_22.6C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A4A5839

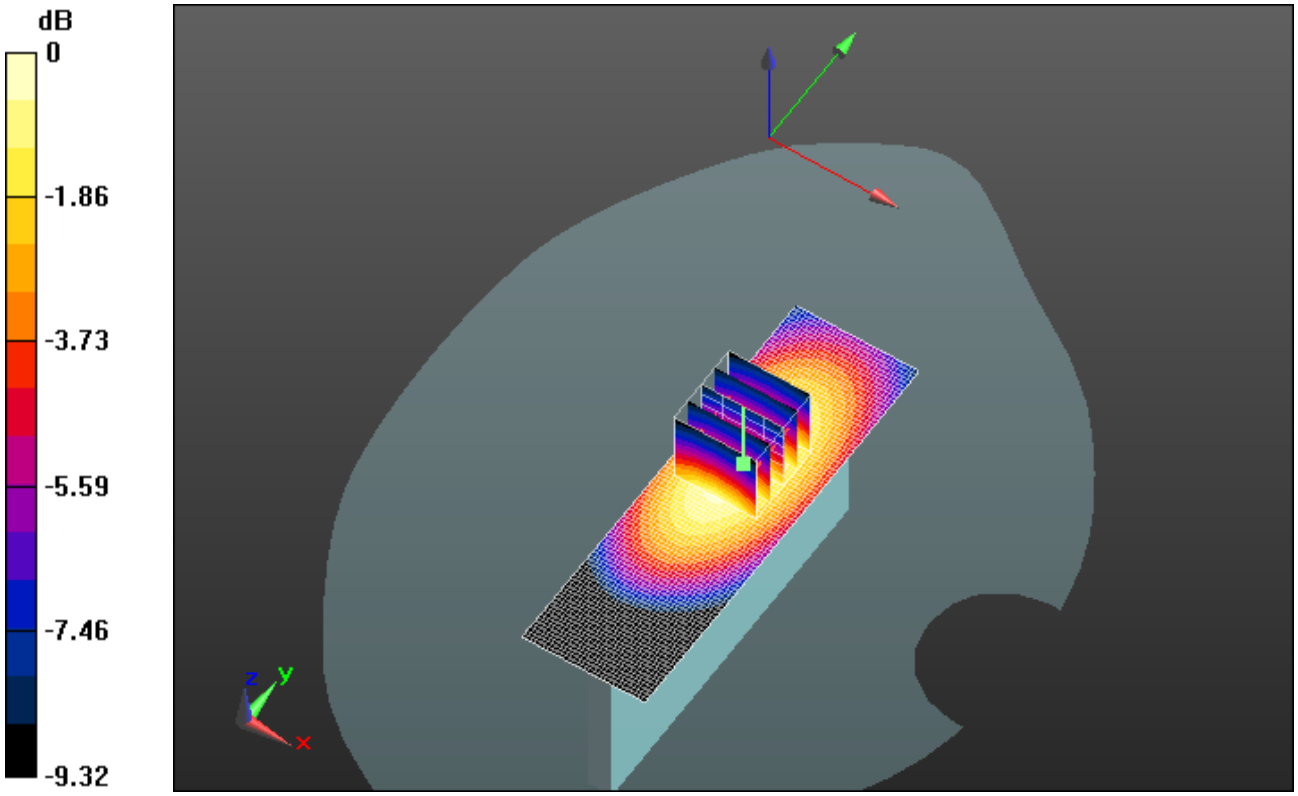
Communication System: GPRS 850; Frequency: 824.2 MHz
Medium parameters used: f = 825 MHz; σ = 0.955 mho/m; ε_r = 53.808; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (31x101x1):
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.928 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 30.673 V/m; Power Drift = -0.0044 dB
Peak SAR (extrapolated) = 1.1710
SAR(1 g) = 0.831 mW/g; SAR(10 g) = 0.569 mW/g
Maximum value of SAR (measured) = 0.955 mW/g



0 dB = 0.960mW/g = -0.35 dB mW/g

Date/Time: 7/25/2012 11:25:08 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Right_GPRS850_mid_chan_amb_temp_23.3C_liq_temp_22.6C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A4A5839

Communication System: GPRS 850; Frequency: 836.8 MHz
Medium parameters used (interpolated): f = 836.8 MHz; σ = 0.978 mho/m; ε_r = 53.784; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

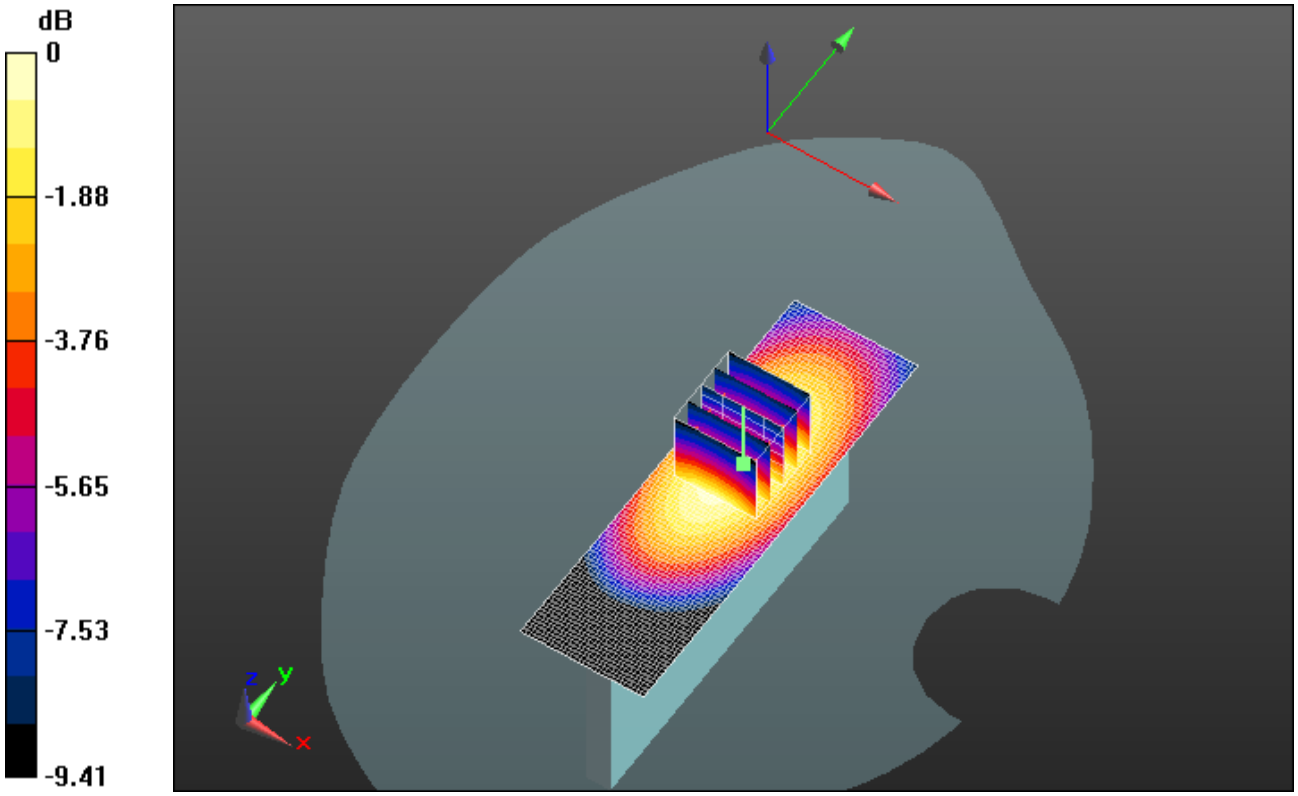
- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (31x101x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.969 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 30.544 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 1.2060
SAR(1 g) = 0.852 mW/g; SAR(10 g) = 0.586 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.977 mW/g



0 dB = 0.980mW/g = -0.18 dB mW/g

Date/Time: 7/25/2012 12:06:31 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Right_GPRS850_high_chan_amb_temp_23.3C_liq_temp_22.6C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A4A5839

Communication System: GPRS 850; Frequency: 848.8 MHz
Medium parameters used (interpolated): f = 848.8 MHz; σ = 1.002 mho/m; ε_r = 53.721; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

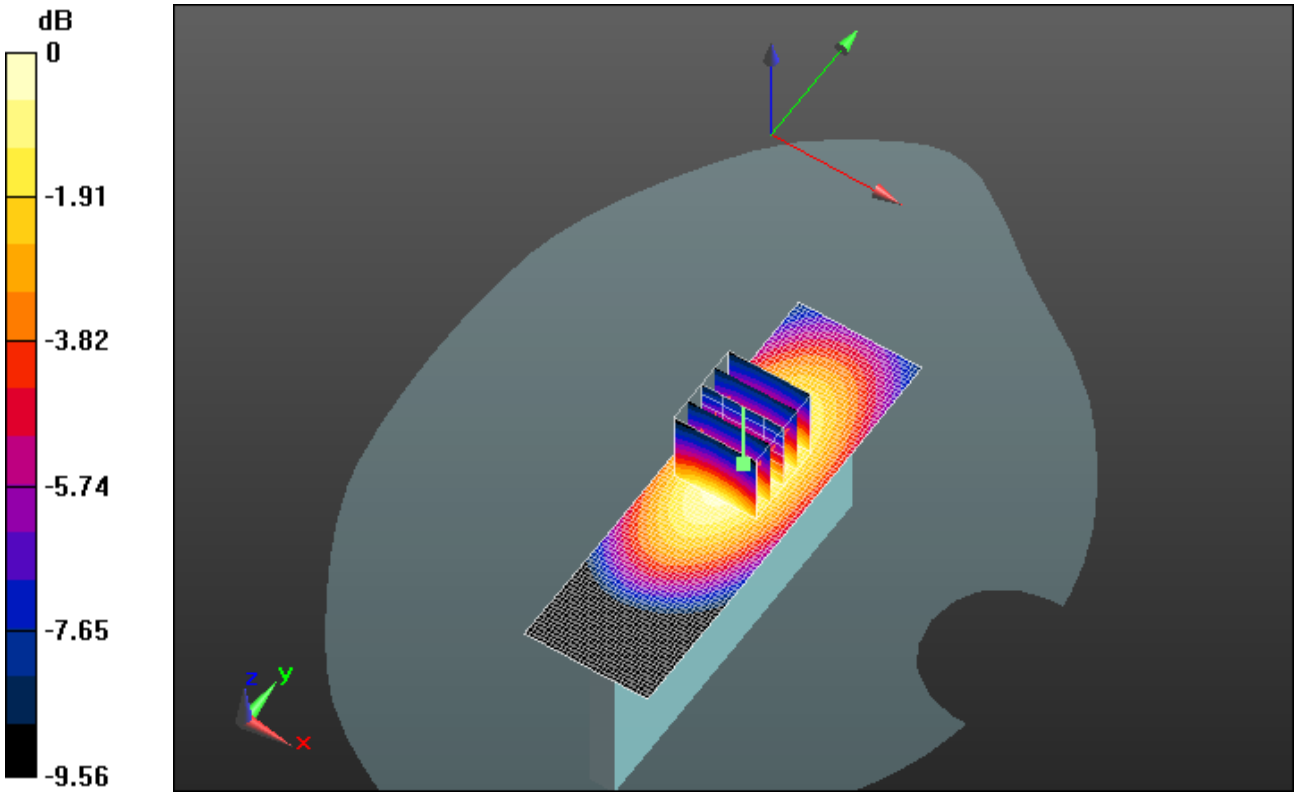
- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (31x101x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.946 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 30.401 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 1.1760
SAR(1 g) = 0.831 mW/g; SAR(10 g) = 0.567 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.959 mW/g



0 dB = 0.960mW/g = -0.35 dB mW/g

Date/Time: 7/25/2012 10:40:16 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Bottom_GPRS850_mid_chan_amb_temp_23.4_liq_temp_22.6C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A4A5839

Communication System: GPRS 850; Frequency: 836.8 MHz
Medium parameters used (interpolated): f = 836.8 MHz; σ = 0.978 mho/m; ε_r = 53.784; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

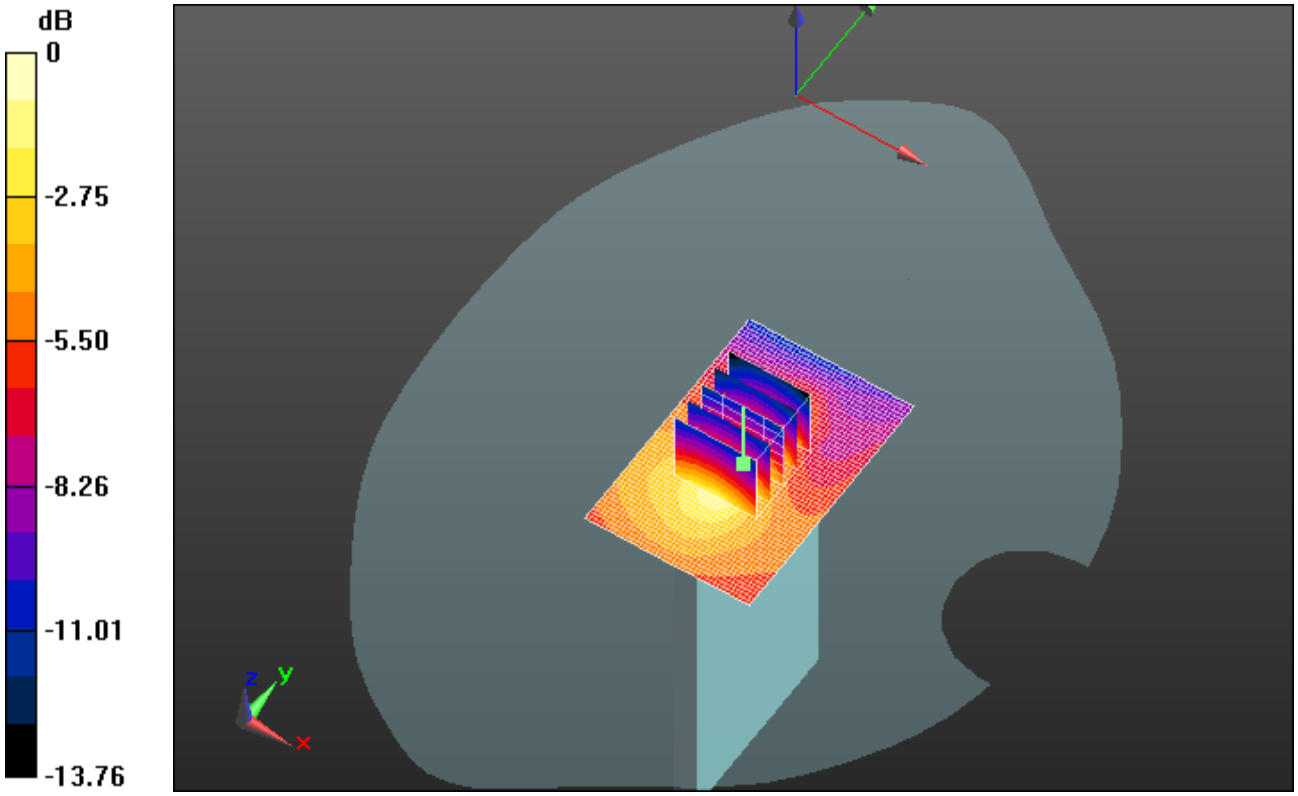
- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.194 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 14.432 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.2680
SAR(1 g) = 0.150 mW/g; SAR(10 g) = 0.086 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.189 mW/g



0 dB = 0.190mW/g = -14.42 dB mW/g

Date/Time: 7/25/2012 10:14:09 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_Headset_GPRS850_mid_chan_amb_temp_23.3_liq_temp_22.5C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A4A5839

Communication System: GPRS 850; Frequency: 836.8 MHz
Medium parameters used (interpolated): f = 836.8 MHz; σ = 0.978 mho/m; ε_r = 53.784; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

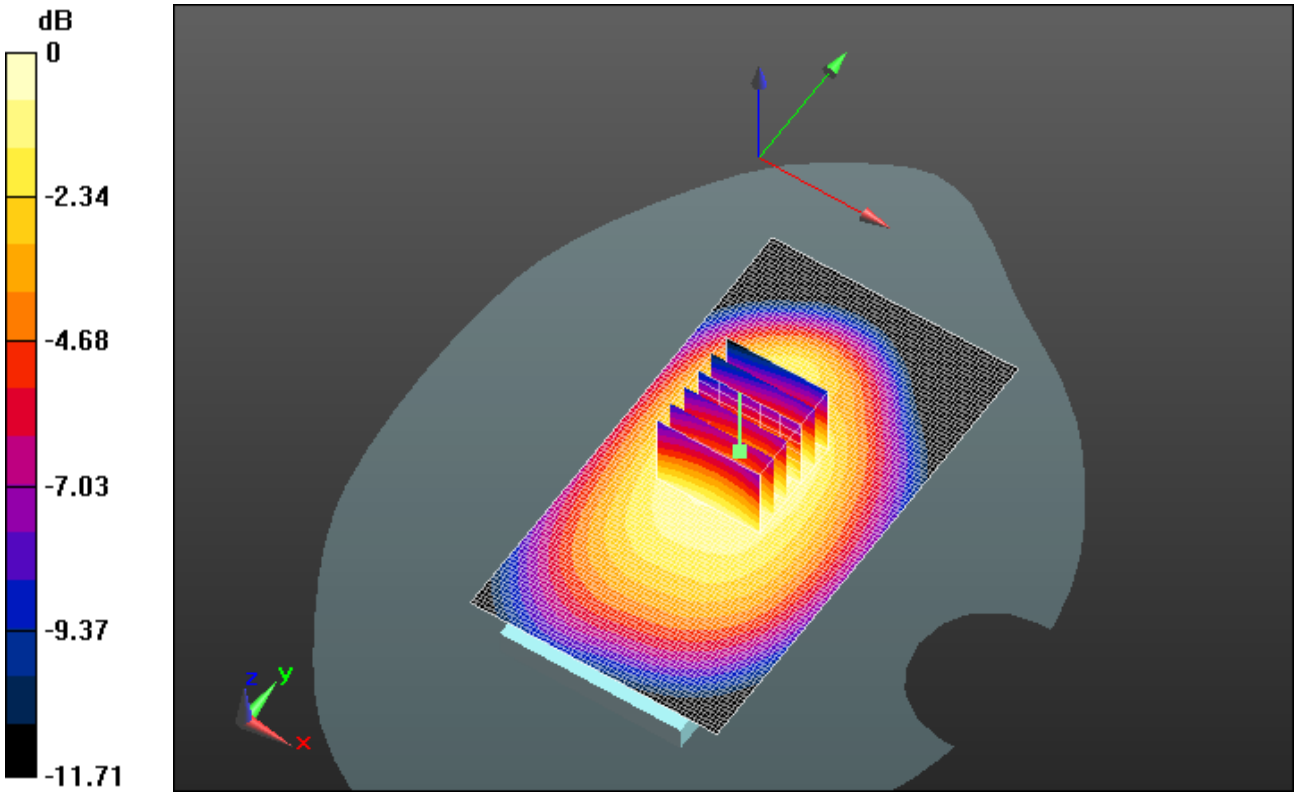
- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 1.029 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 29.673 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.2830
SAR(1 g) = 0.910 mW/g; SAR(10 g) = 0.666 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.019 mW/g



0 dB = 1.020mW/g = 0.17 dB mW/g

Date/Time: 6/5/2012 1:52:31 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_UMTS_Band_V_low_chan_amb_temp_22.9 _liq_temp_21.7C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A099B03

Communication System: WCDMA FDD V; Frequency: 826.4 MHz
Medium parameters used (interpolated): f = 826.4 MHz; σ = 0.957 mho/m; ε_r = 53.208; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

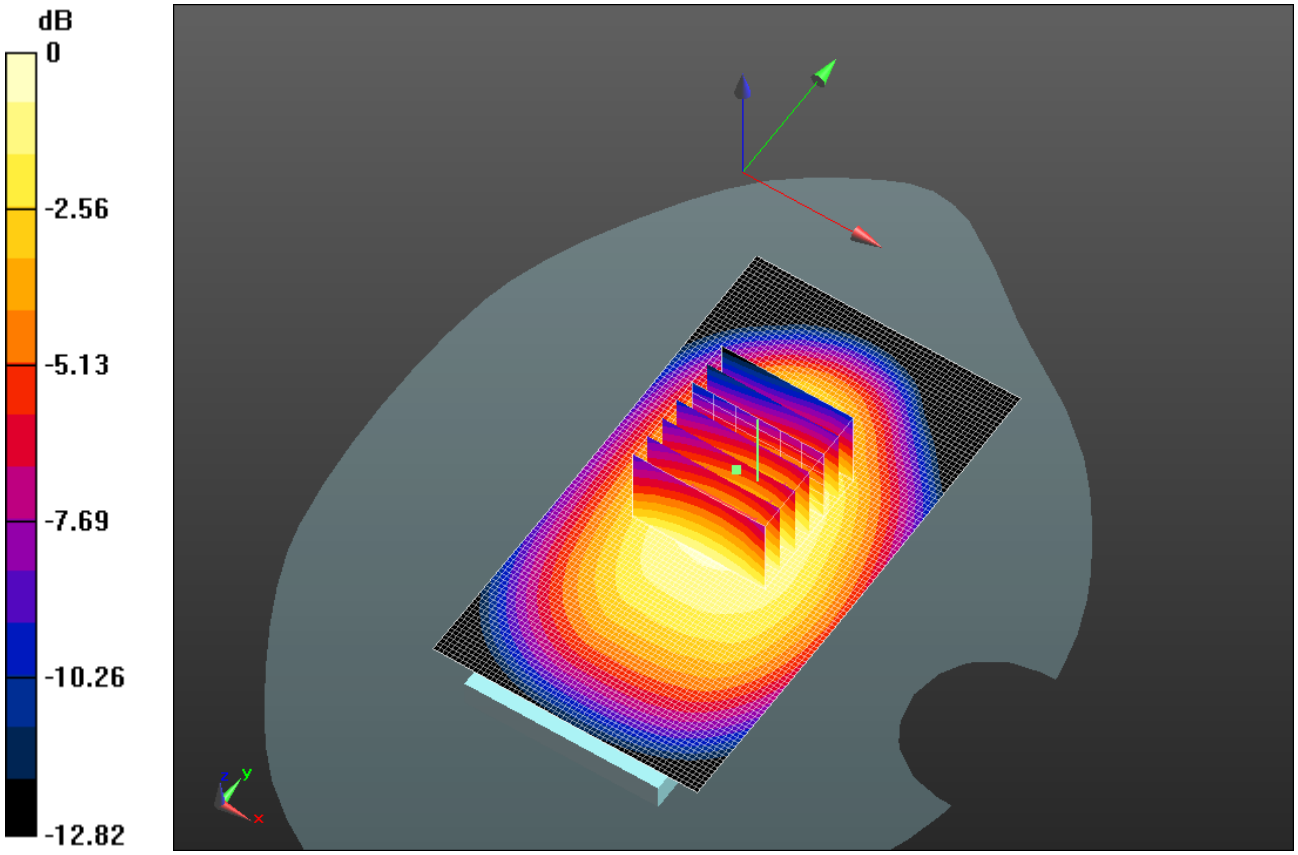
- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 1.049 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (7x7x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 30.400 V/m; Power Drift = -0.0091 dB
Peak SAR (extrapolated) = 1.2890
SAR(1 g) = 0.941 mW/g; SAR(10 g) = 0.701 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.040 mW/g



0 dB = 1.040mW/g = 0.34 dB mW/g

Date/Time: 6/5/2012 1:06:34 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_UMTS_Band_V_mid_chan_amb_temp_23.1_liq_temp_21.5C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A099B03

Communication System: WCDMA FDD V; Frequency: 836.4 MHz
Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.966 mho/m; ε_r = 53.137; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

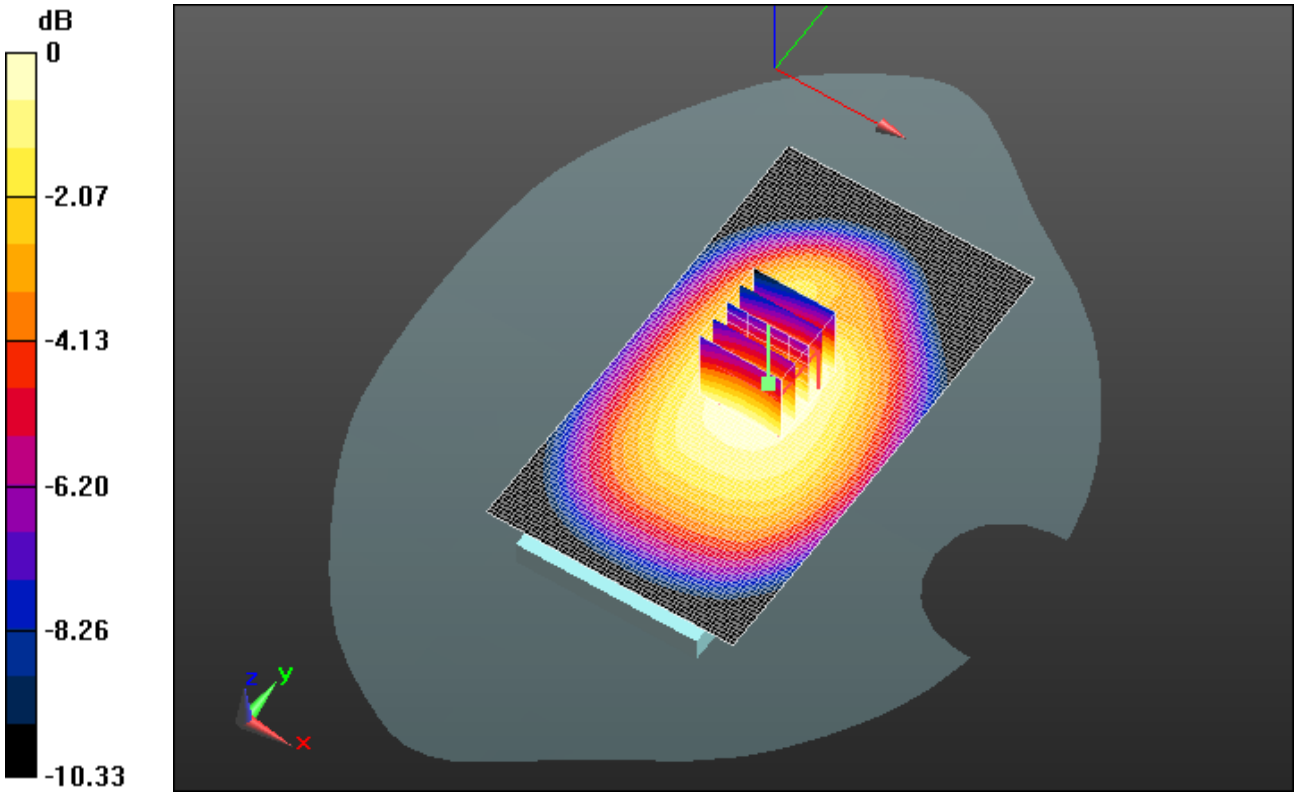
- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.995 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 30.883 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.1730
SAR(1 g) = 0.909 mW/g; SAR(10 g) = 0.687 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.002 mW/g



0 dB = 1.000mW/g = 0 dB mW/g

Date/Time: 6/5/2012 2:23:59 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_UMTS_Band_V_high_chan_amb_temp_23.2_liq_temp_21.6C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A099B03

Communication System: WCDMA FDD V; Frequency: 846.6 MHz
Medium parameters used (interpolated): f = 846.6 MHz; σ = 0.976 mho/m; ε_r = 53.02; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

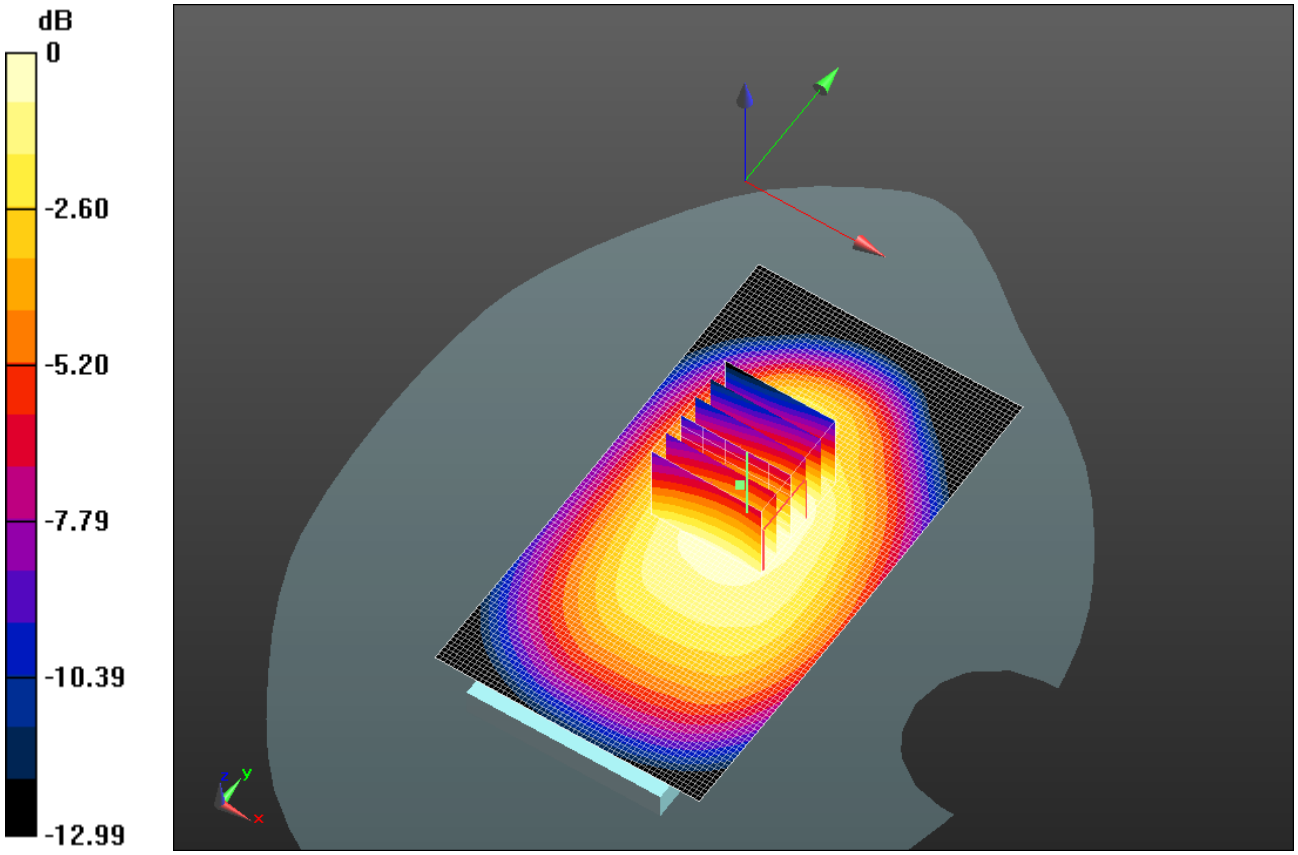
- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 1.128 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 31.534 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.4020
SAR(1 g) = 1.03 mW/g; SAR(10 g) = 0.762 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.133 mW/g



0 dB = 1.130mW/g = 1.06 dB mW/g

Date/Time: 6/5/2012 3:51:38 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Front_UMTS_Band_V_low_chan_amb_temp_22.9_liq_temp_21.6C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A099B03

Communication System: WCDMA FDD V; Frequency: 826.4 MHz
Medium parameters used (interpolated): f = 826.4 MHz; σ = 0.957 mho/m; ε_r = 53.208; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

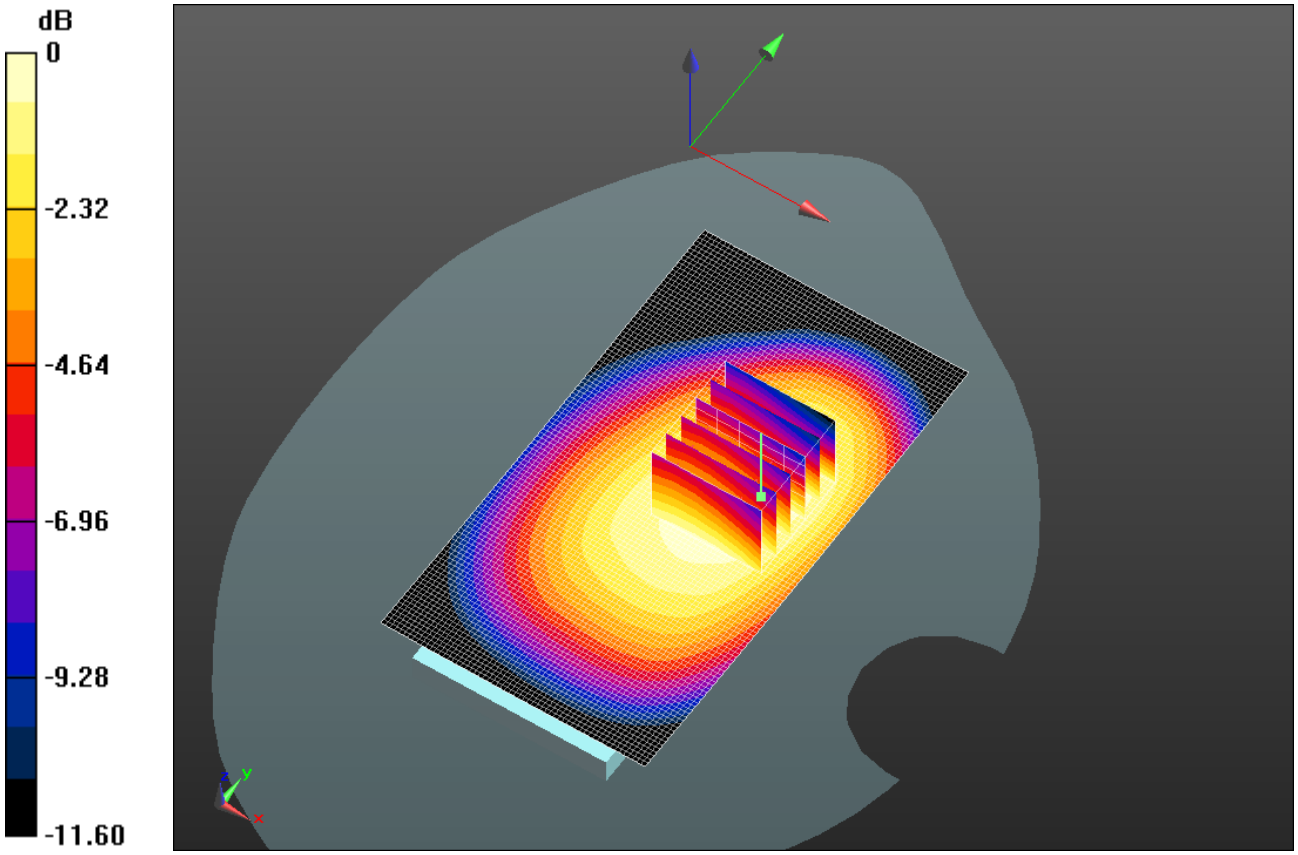
- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.931 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 28.675 V/m; Power Drift = 0.0031 dB
Peak SAR (extrapolated) = 1.1020
SAR(1 g) = 0.848 mW/g; SAR(10 g) = 0.639 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.938 mW/g



0 dB = 0.940mW/g = -0.54 dB mW/g

Date/Time: 6/5/2012 3:30:30 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Front_UMTS_Band_V_mid_chan_amb_temp_22.4 _liq_temp_21.6C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A099B03

Communication System: WCDMA FDD V; Frequency: 836.4 MHz
Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.966 mho/m; ε_r = 53.137; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

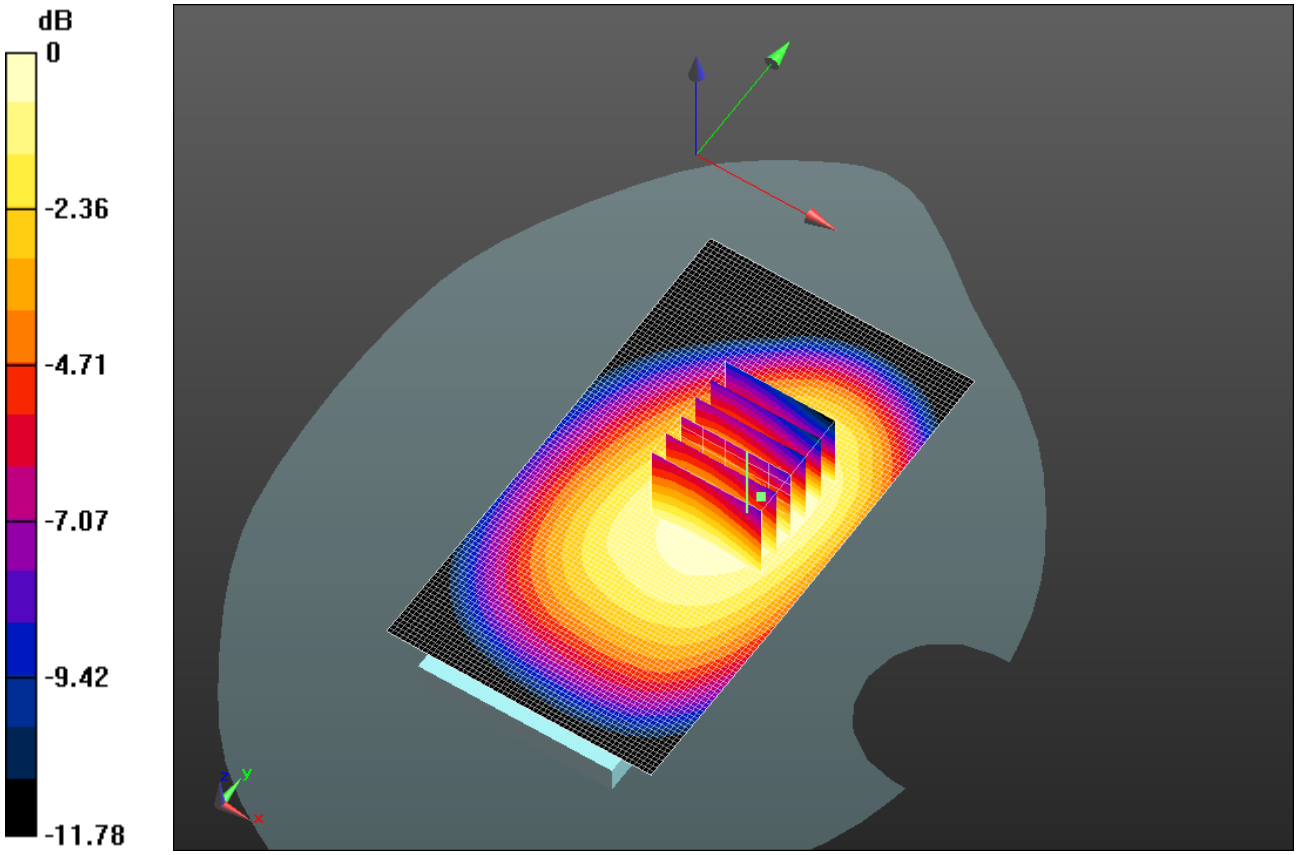
- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.983 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 29.708 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 1.1620
SAR(1 g) = 0.895 mW/g; SAR(10 g) = 0.676 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.988 mW/g



0 dB = 0.990mW/g = -0.09 dB mW/g

Date/Time: 6/5/2012 4:11:54 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Front_UMTS_Band_V_high_chan_amb_temp_22.3_liq_temp_21.5C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A099B03

Communication System: WCDMA FDD V; Frequency: 846.6 MHz
Medium parameters used (interpolated): f = 846.6 MHz; σ = 0.976 mho/m; ε_r = 53.02; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 1.025 mW/g

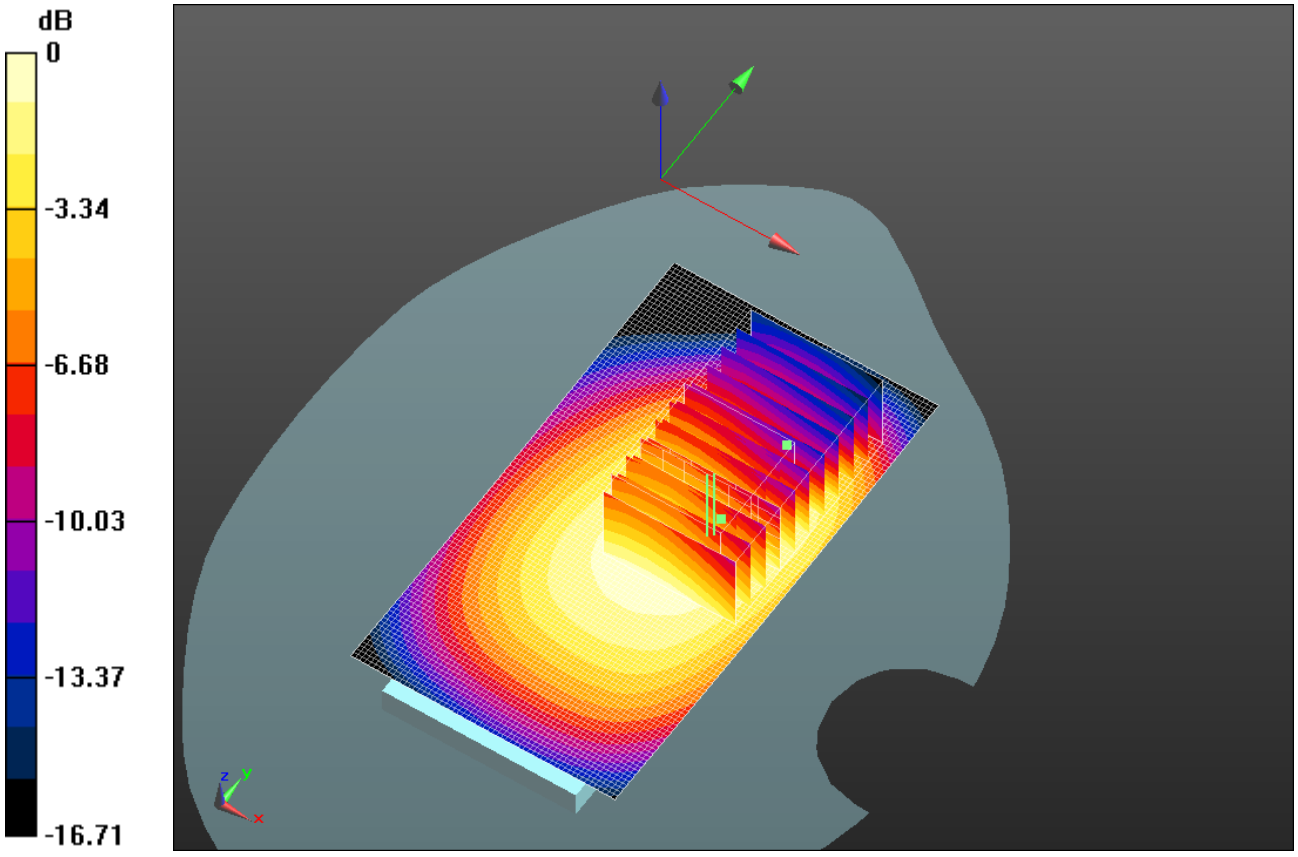
Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 30.125 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.2090
SAR(1 g) = 0.937 mW/g; SAR(10 g) = 0.703 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.041 mW/g

Configuration/Touch position -/Zoom Scan 2 (5x5x7) (7x11x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 30.125 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.2240
SAR(1 g) = 0.931 mW/g; SAR(10 g) = 0.704 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.020 mW/g



0 dB = 1.020mW/g = 0.17 dB mW/g

Date/Time: 6/5/2012 6:59:17 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Left_UMTS_Band_V_mid_chan_amb_temp_22.5C _liq_temp_21.3C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A099B03

Communication System: WCDMA FDD V; Frequency: 836.4 MHz
Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.966 mho/m; ε_r = 53.137; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

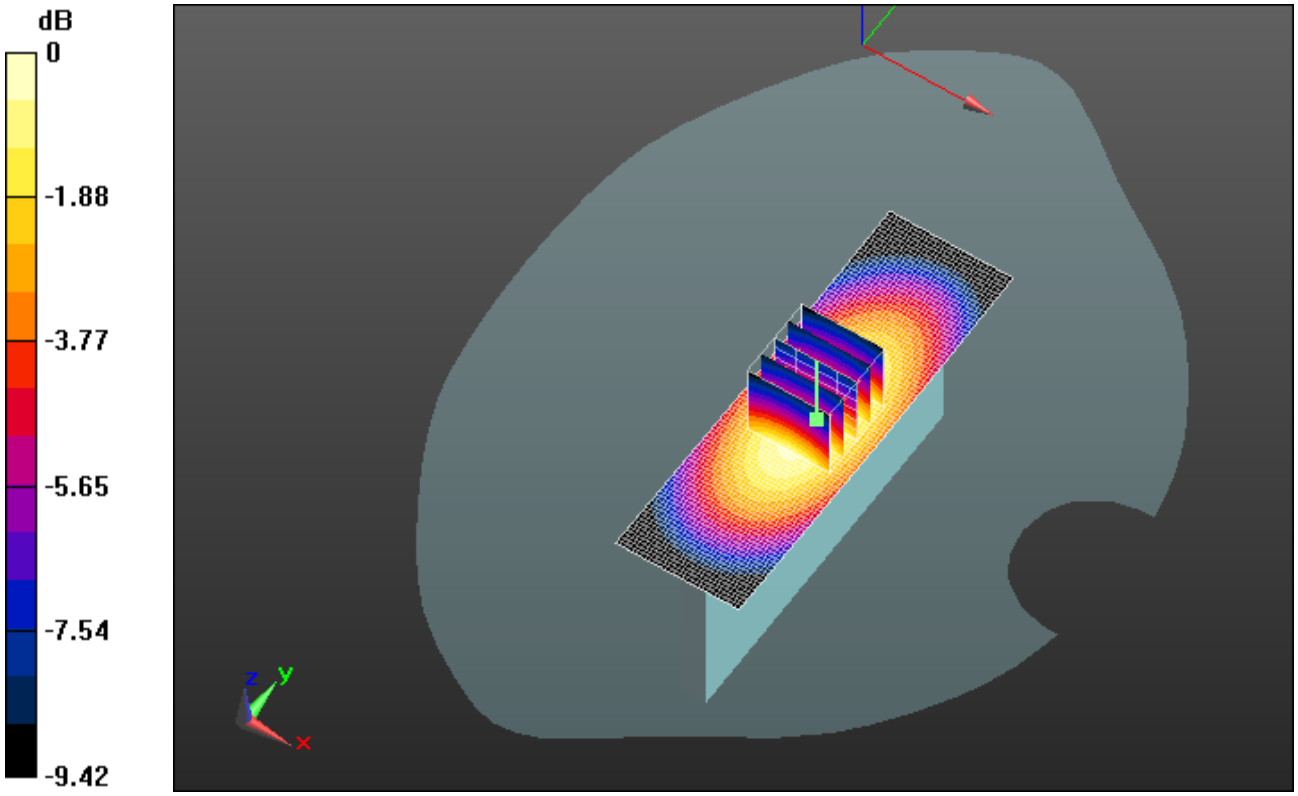
- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (31x101x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.763 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 29.184 V/m; Power Drift = 0.0017 dB
Peak SAR (extrapolated) = 0.9470
SAR(1 g) = 0.678 mW/g; SAR(10 g) = 0.466 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.781 mW/g



0 dB = 0.780mW/g = -2.16 dB mW/g

Date/Time: 6/5/2012 6:01:16 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Right_UMTS_Band_V_mid_chan_amb_temp_22.4 C_liq_temp_21.3C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A099B03

Communication System: WCDMA FDD V; Frequency: 836.4 MHz
Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.966 mho/m; ε_r = 53.137; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

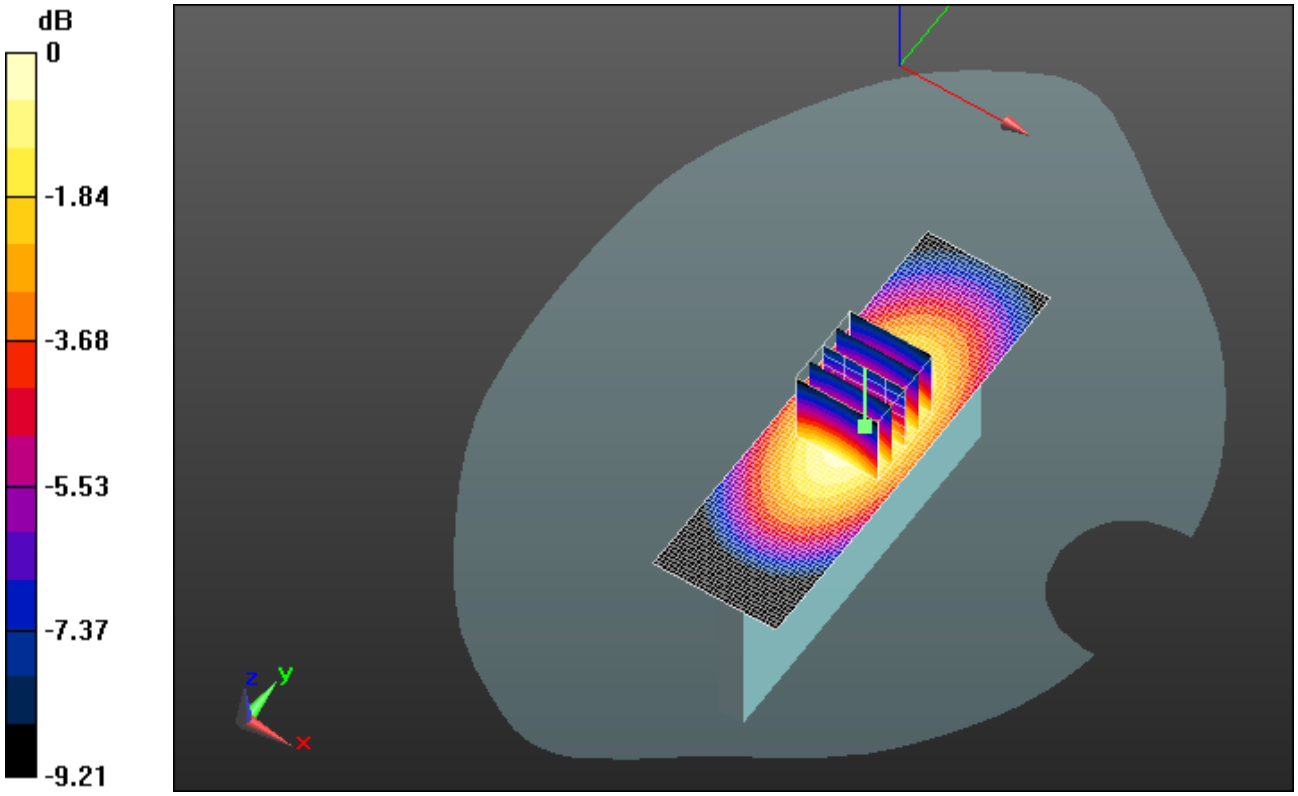
- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (31x101x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.832 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 31.081 V/m; Power Drift = -0.18 dB
Peak SAR (extrapolated) = 1.0170
SAR(1 g) = 0.733 mW/g; SAR(10 g) = 0.506 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.837 mW/g



0 dB = 0.840mW/g = -1.51 dB mW/g

Date/Time: 6/5/2012 9:04:00 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Bottom_UMTS_Band_V_mid_chan_amb_temp_22.3_liq_temp_21.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A099B03

Communication System: WCDMA FDD V; Frequency: 836.4 MHz
Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.966 mho/m; ε_r = 53.137; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

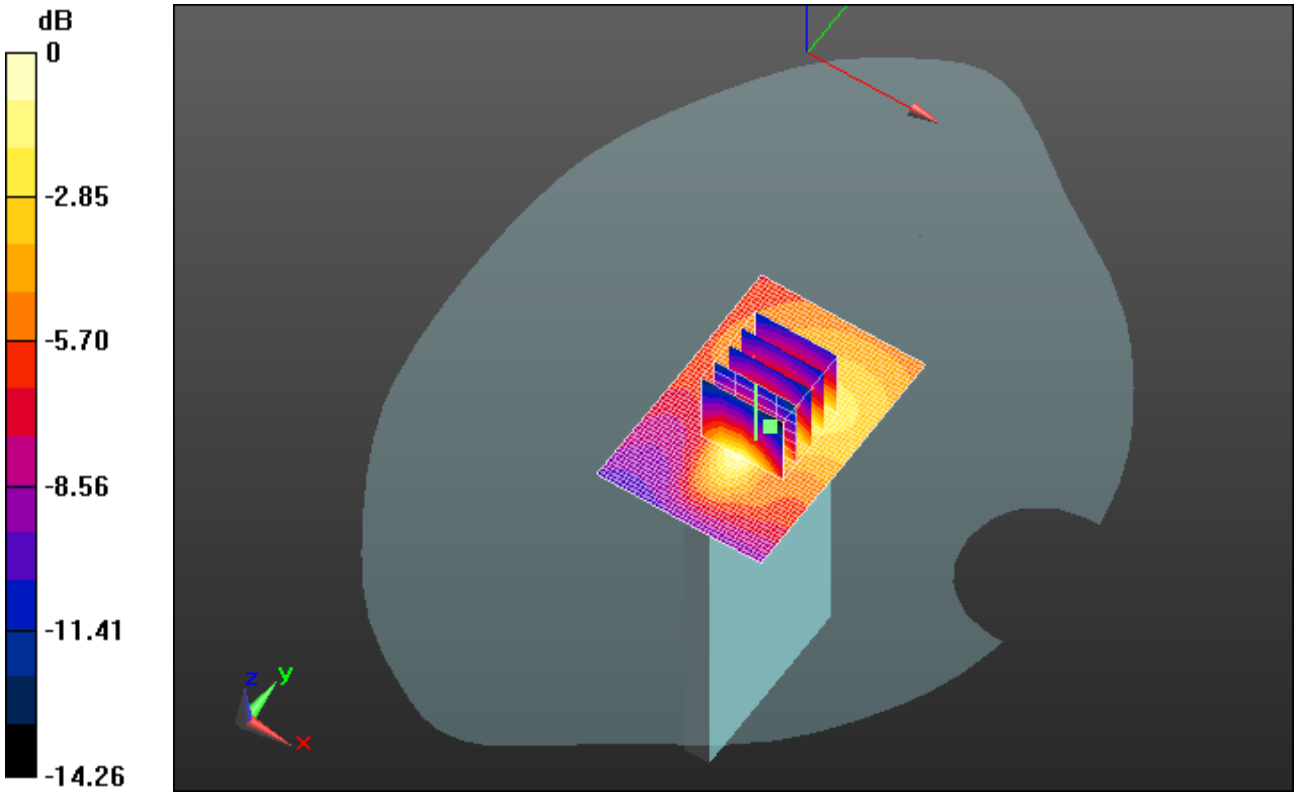
- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.152 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 12.743 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.2140
SAR(1 g) = 0.122 mW/g; SAR(10 g) = 0.070 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.152 mW/g



0 dB = 0.150mW/g = -16.48 dB mW/g

Date/Time: 7/19/2012 3:48:21 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_UMTS_Band_V_high_chan_amb_temp_23.3_liq_temp_22.8C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A4A5839

Communication System: WCDMA FDD V; Frequency: 846.6 MHz
Medium parameters used (interpolated): f = 846.6 MHz; σ = 0.951 mho/m; ε_r = 52.624; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

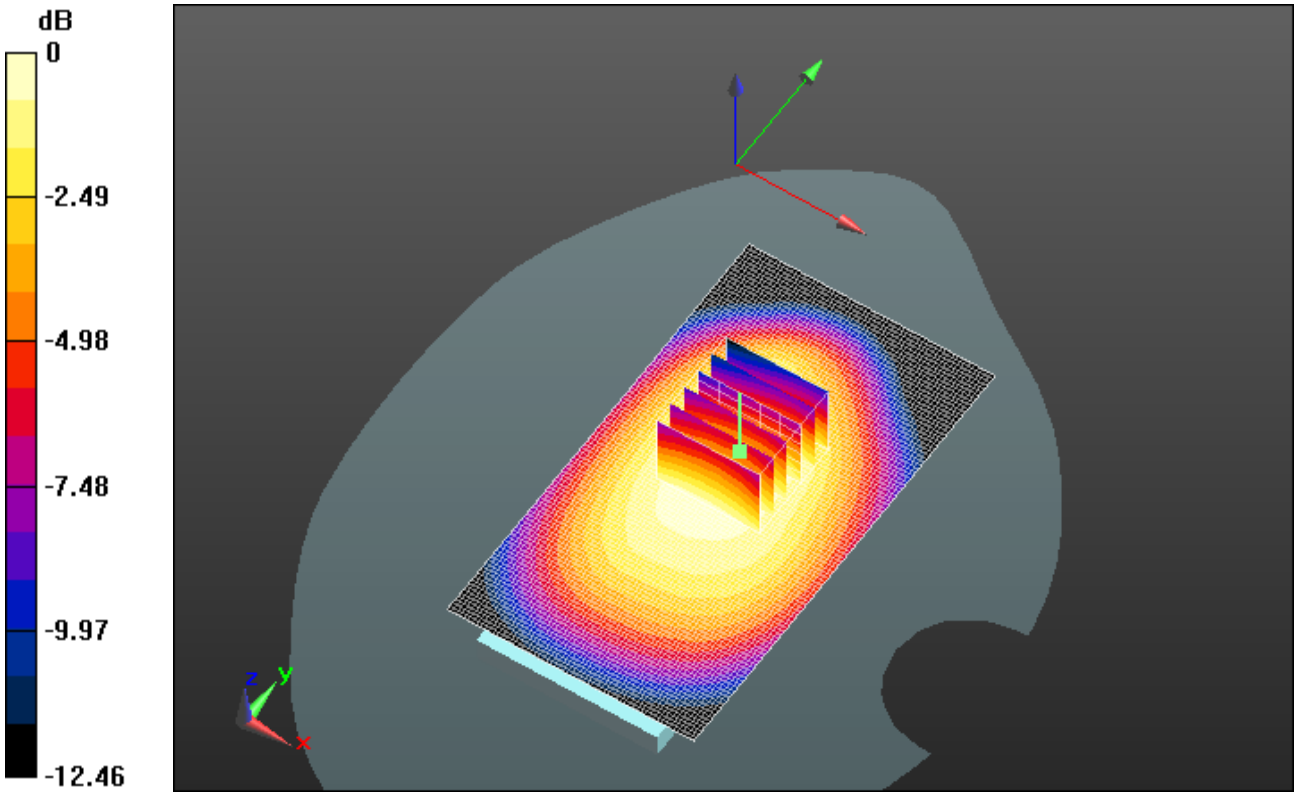
- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.962 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 30.209 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 1.1430
SAR(1 g) = 0.862 mW/g; SAR(10 g) = 0.647 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.955 mW/g



0 dB = 0.950mW/g = -0.45 dB mW/g

Date/Time: 7/31/2012 10:00:25 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_GPRS1900_mid_chan_amb_temp_23.5_liq_temp_22.7C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A4A5839

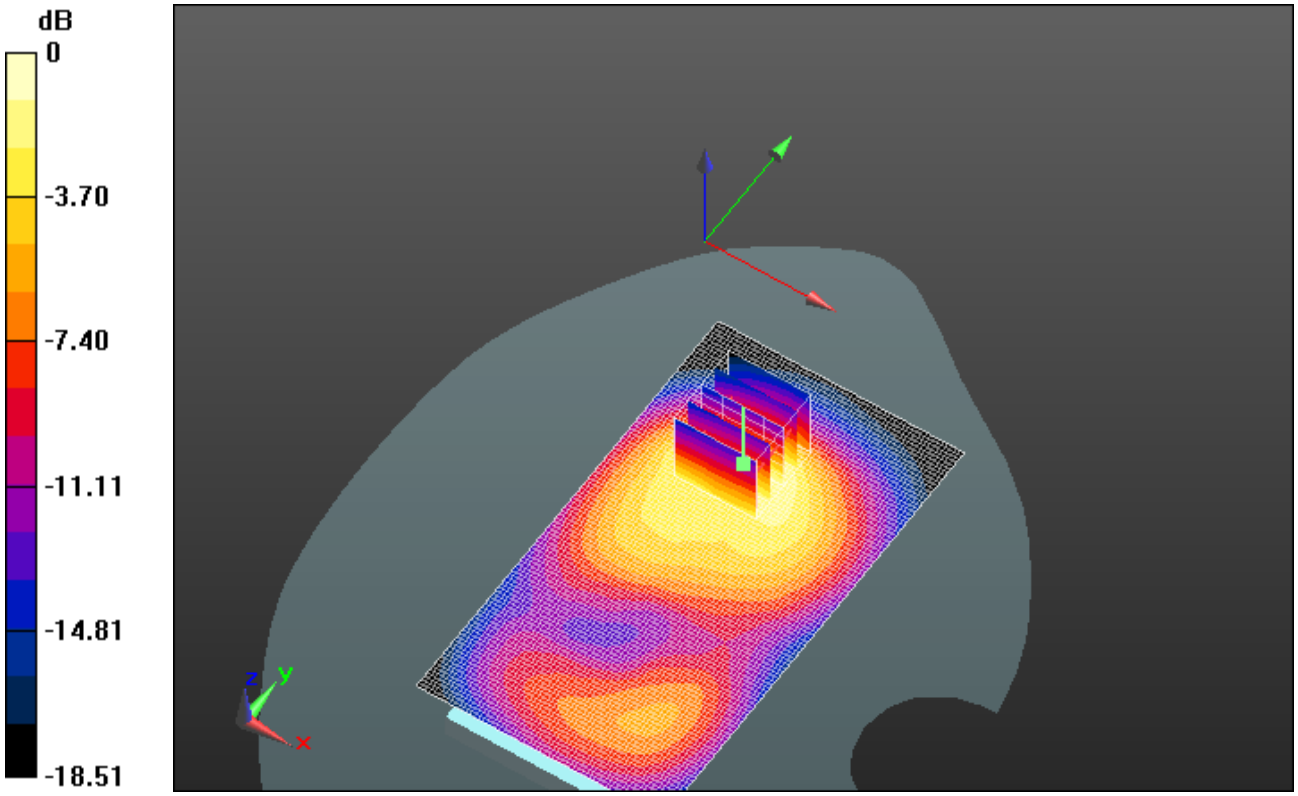
Communication System: GPRS 1900; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.533 mho/m; ε_r = 50.995; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.561 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 6.502 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 0.7740
SAR(1 g) = 0.445 mW/g; SAR(10 g) = 0.247 mW/g
Maximum value of SAR (measured) = 0.551 mW/g



0 dB = 0.550mW/g = -5.19 dB mW/g

Date/Time: 7/31/2012 10:54:28 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Front_GPRS1900_mid_chan_amb_temp_23.2_liq_temp_22.7C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A4A5839

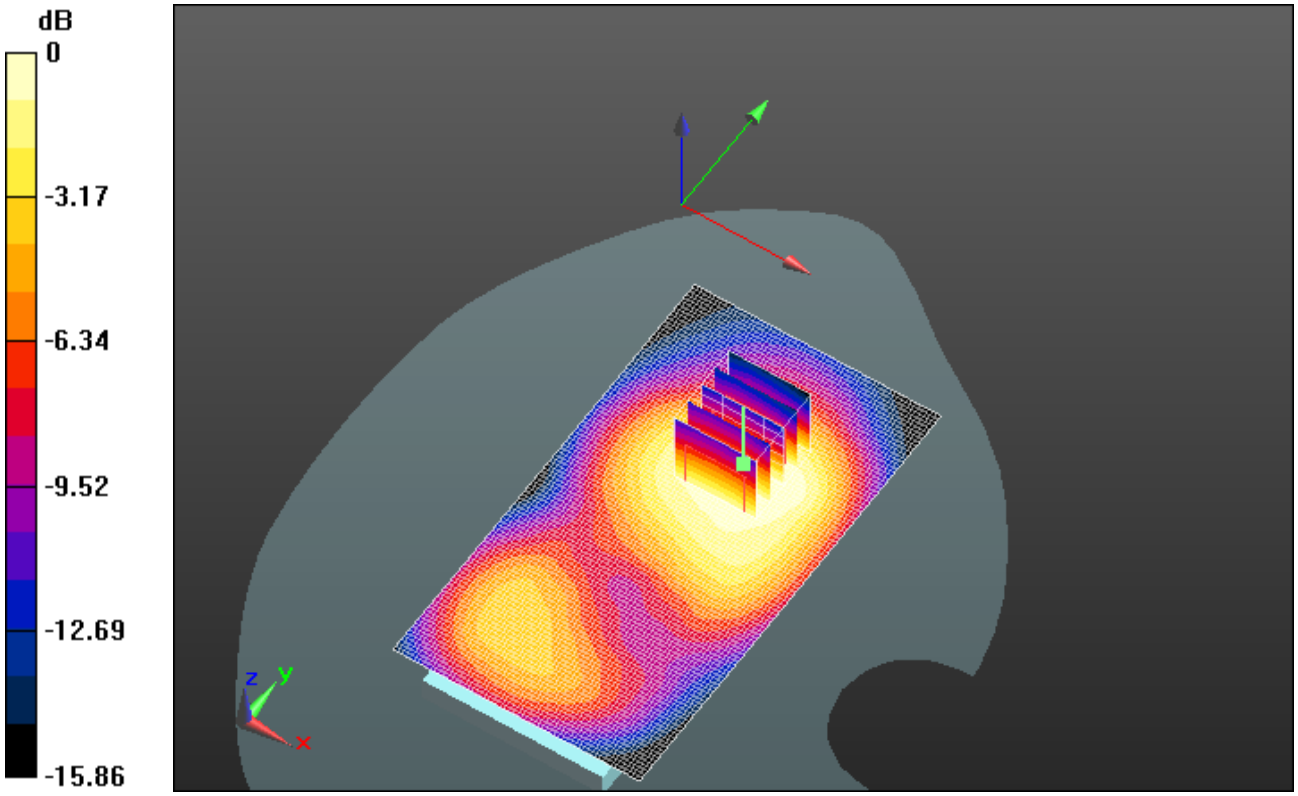
Communication System: GPRS 1900; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.533 mho/m; ε_r = 50.995; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.307 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 5.904 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.3780
SAR(1 g) = 0.242 mW/g; SAR(10 g) = 0.154 mW/g
Maximum value of SAR (measured) = 0.285 mW/g



0 dB = 0.280mW/g = -11.06 dB mW/g

Date/Time: 7/31/2012 2:26:35 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Left_GPRS1900_mid_chan_amb_temp_23.4C_liq_temp_22.6C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A4A5839

Communication System: GPRS 1900; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.533 mho/m; ε_r = 50.995; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

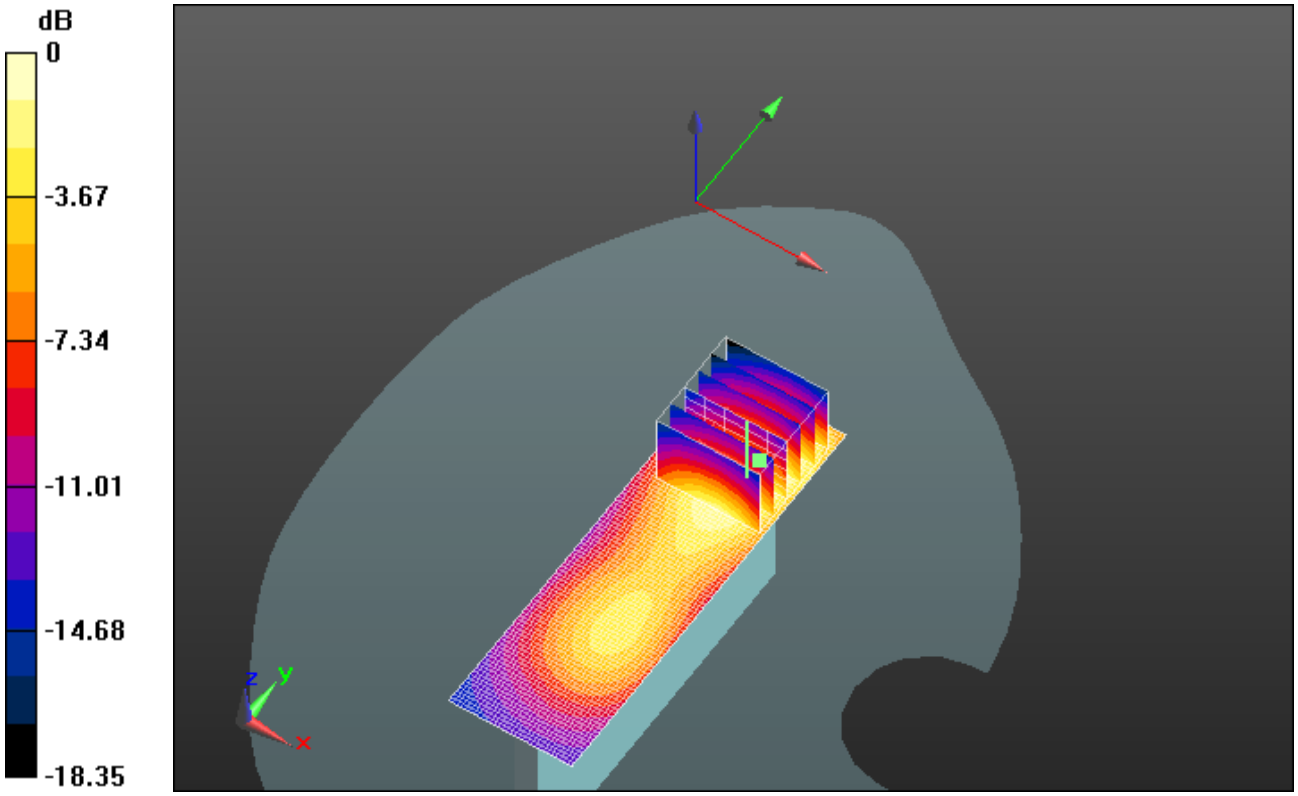
- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (31x101x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.176 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 6.775 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 0.2360
SAR(1 g) = 0.145 mW/g; SAR(10 g) = 0.084 mW/g
Maximum value of SAR (measured) = 0.174 mW/g



0 dB = 0.170mW/g = -15.39 dB mW/g

Date/Time: 7/31/2012 2:43:01 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Right_GPRS1900_mid_chan_amb_temp_23.4C_liq_temp_22.6C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A4A5839

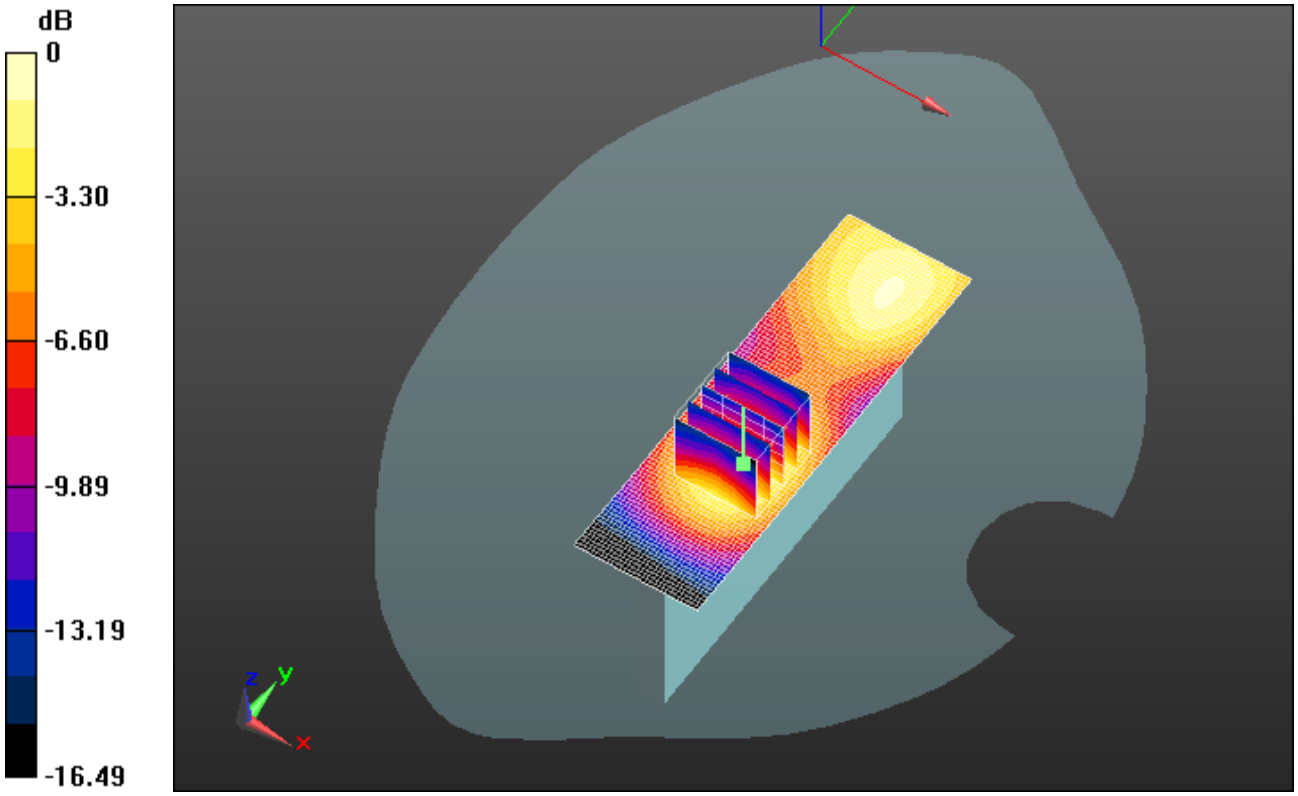
Communication System: GPRS 1900; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.533 mho/m; ε_r = 50.995; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (31x101x1):
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.077 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 5.750 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.1010
SAR(1 g) = 0.062 mW/g; SAR(10 g) = 0.036 mW/g
Maximum value of SAR (measured) = 0.075 mW/g



0 dB = 0.080mW/g = -21.94 dB mW/g

Date/Time: 7/31/2012 12:39:31 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Bottom_GPRS1900_mid_chan_amb_temp_23.3_liq_temp_22.6C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A4A5839

Communication System: GPRS 1900; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.533 mho/m; ε_r = 50.995; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

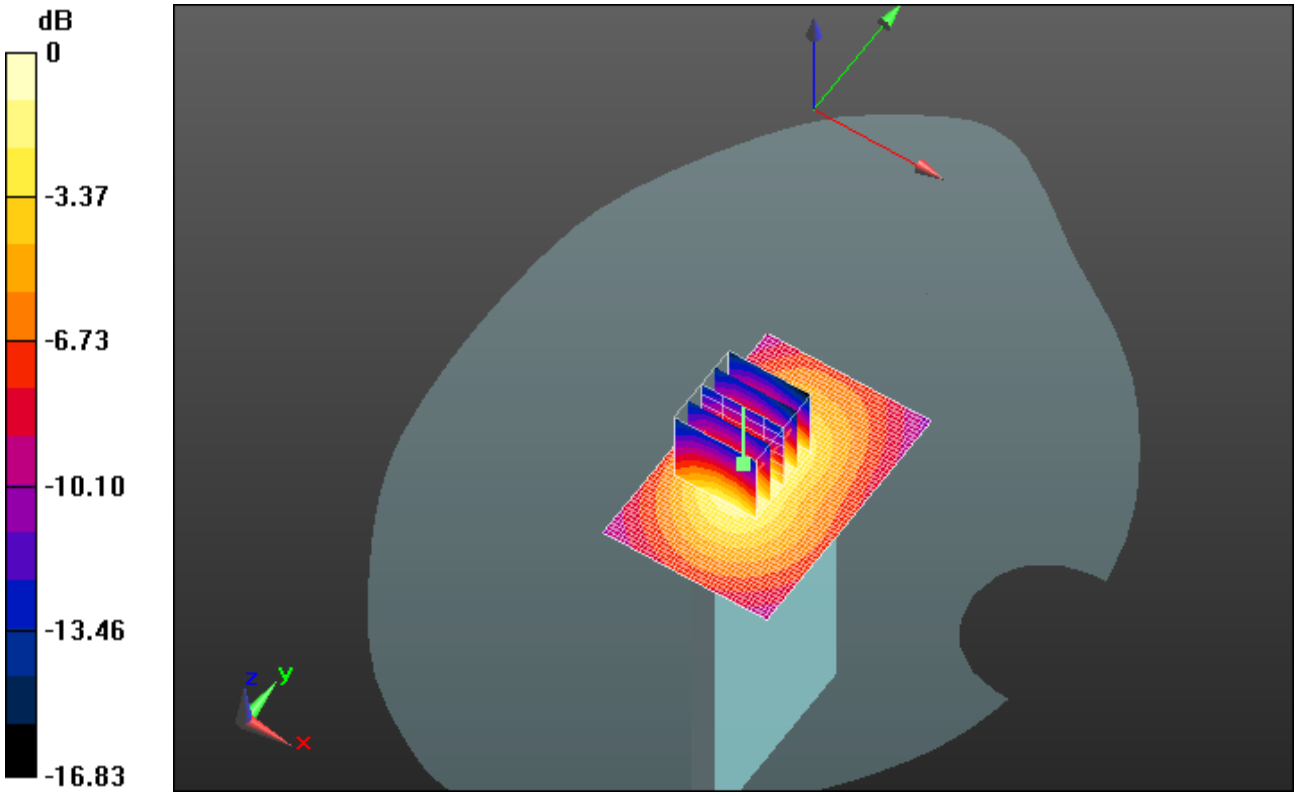
- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (41x61x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.187 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 10.674 V/m; Power Drift = -0.18 dB
Peak SAR (extrapolated) = 0.2710
SAR(1 g) = 0.165 mW/g; SAR(10 g) = 0.092 mW/g
Maximum value of SAR (measured) = 0.200 mW/g



0 dB = 0.200mW/g = -13.98 dB mW/g

Date/Time: 7/31/2012 10:37:02 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_Headset_GPRS1900_mid_chan_amb_temp_23.4_liq_temp_22.7C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A4A5839

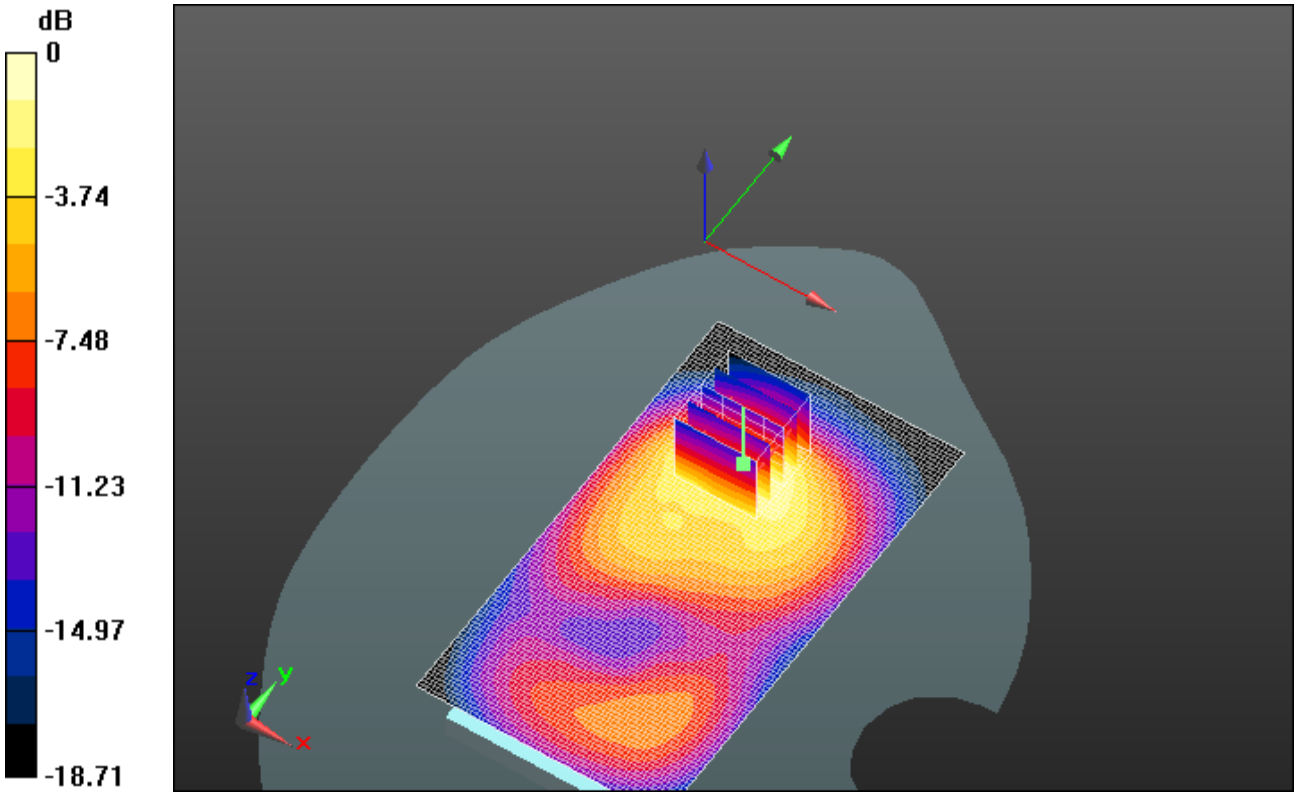
Communication System: GPRS 1900; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.533 mho/m; ε_r = 50.995; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.633 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 6.327 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.8550
SAR(1 g) = 0.495 mW/g; SAR(10 g) = 0.272 mW/g
Maximum value of SAR (measured) = 0.618 mW/g



0 dB = 0.620mW/g = -4.15 dB mW/g

Date/Time: 5/30/2012 6:17:31 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_UMTS_Band_II_low_chan_amb_temp_23.0_liq_temp_22.9C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A099B03

Communication System: WCDMA FDD II; Frequency: 1852.4 MHz
Medium parameters used (interpolated): f = 1852.4 MHz; σ = 1.482 mho/m; ε_r = 51.239; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

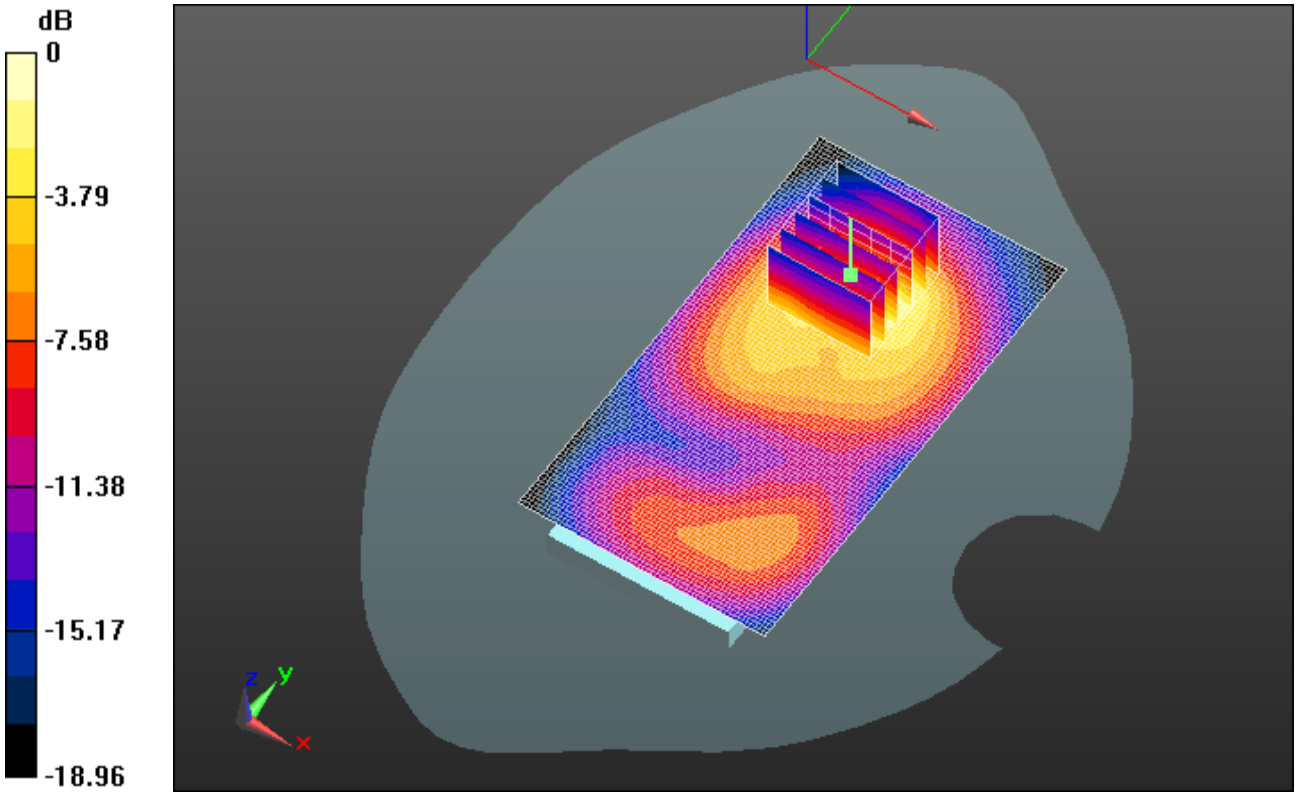
- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 1.259 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 9.322 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 1.6370
SAR(1 g) = 0.957 mW/g; SAR(10 g) = 0.538 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.176 mW/g



0 dB = 1.180mW/g = 1.44 dB mW/g

Date/Time: 5/30/2012 5:55:13 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_UMTS_Band_II_mid_chan_amb_temp_23.4 _liq_temp_22.9C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A099B03

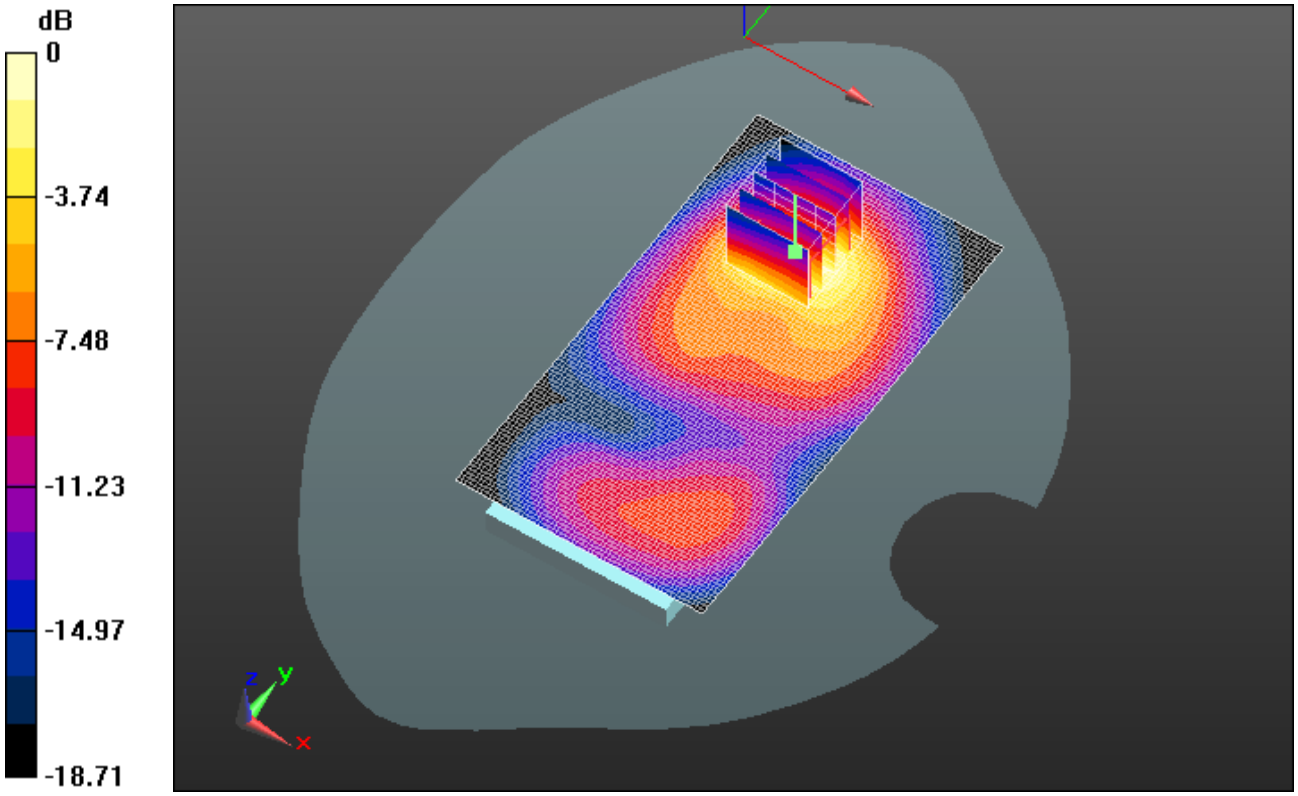
Communication System: WCDMA FDD II; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.506 mho/m; ε_r = 51.137; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.295 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 7.610 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 1.6810
SAR(1 g) = 0.982 mW/g; SAR(10 g) = 0.535 mW/g
Maximum value of SAR (measured) = 1.219 mW/g



0 dB = 1.220mW/g = 1.73 dB mW/g

Date/Time: 5/30/2012 6:38:44 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_UMTS_Band_II_high_chan_amb_temp_23.3 _liq_temp_22.9C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A099B03

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz
Medium parameters used (interpolated): f = 1907.6 MHz; σ = 1.533 mho/m; ε_r = 51.015; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

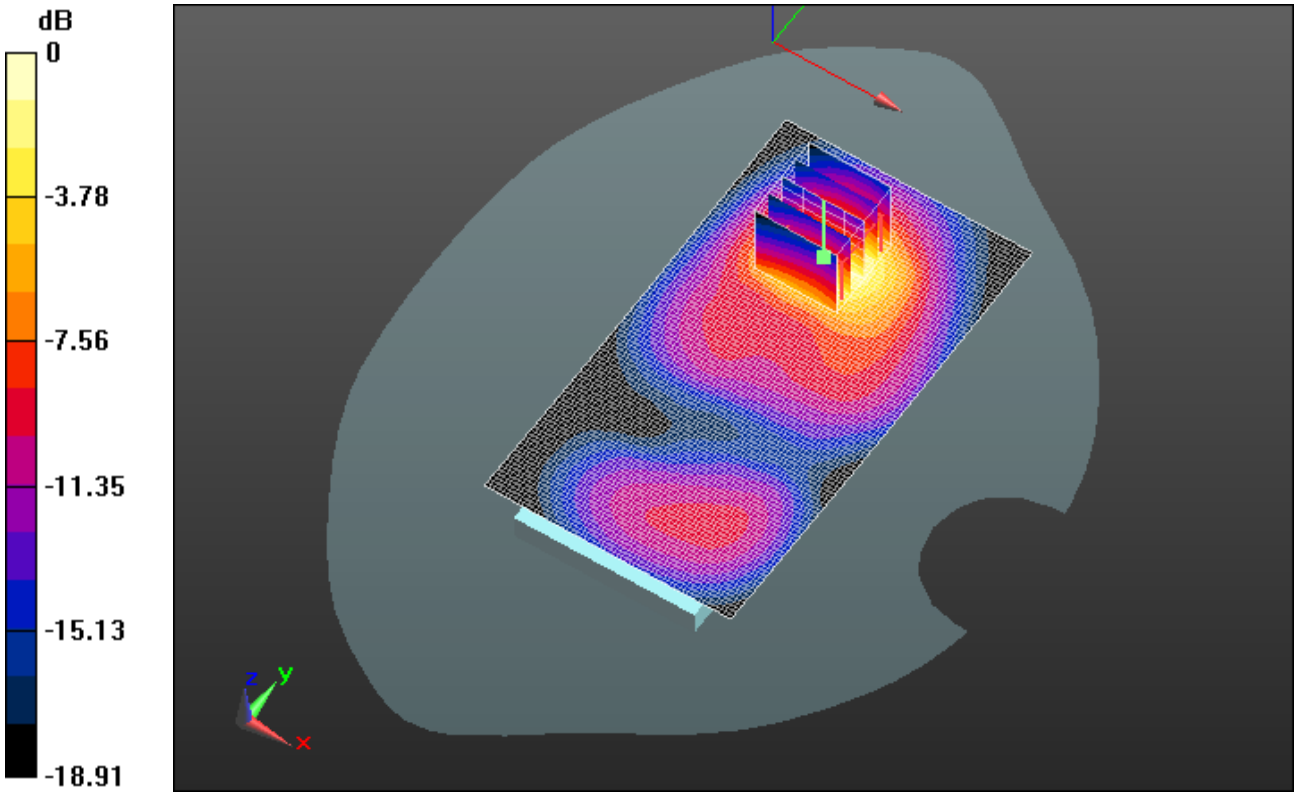
- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 1.324 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 5.336 V/m; Power Drift = -0.005 dB
Peak SAR (extrapolated) = 1.7130
SAR(1 g) = 0.985 mW/g; SAR(10 g) = 0.520 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.233 mW/g



0 dB = 1.230mW/g = 1.80 dB mW/g

Date/Time: 5/30/2012 7:02:30 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Front_UMTS_Band_II_mid_chan_amb_temp_23.4 _liq_temp_22.2C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A099B03

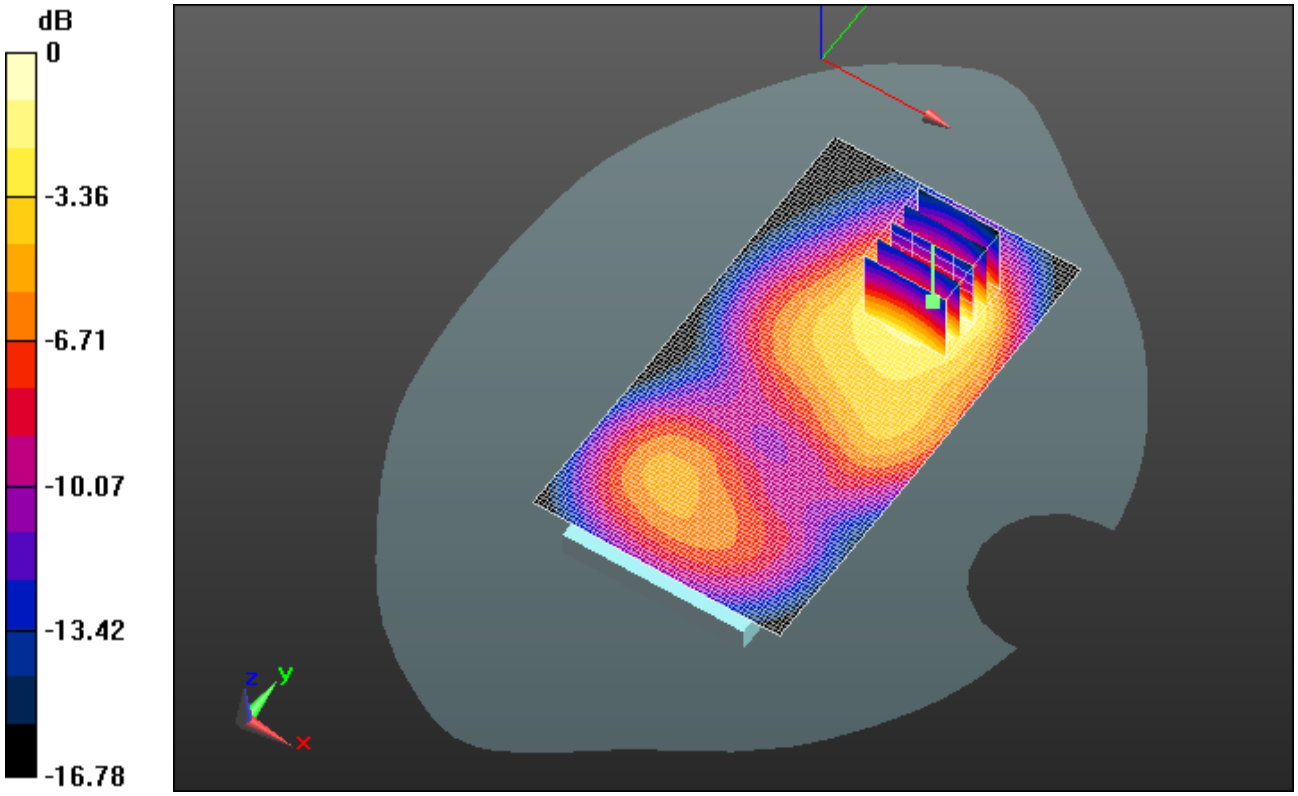
Communication System: WCDMA FDD II; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.506 mho/m; ε_r = 51.137; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.979 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 8.372 V/m; Power Drift = 0.0063 dB
Peak SAR (extrapolated) = 1.3240
SAR(1 g) = 0.768 mW/g; SAR(10 g) = 0.430 mW/g
Maximum value of SAR (measured) = 0.954 mW/g



0 dB = 0.950mW/g = -0.45 dB mW/g

Date/Time: 5/30/2012 10:32:34 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Left_UMTS_Band_II_mid_chan_amb_temp_23.3_liq_temp_21.9C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A099B03

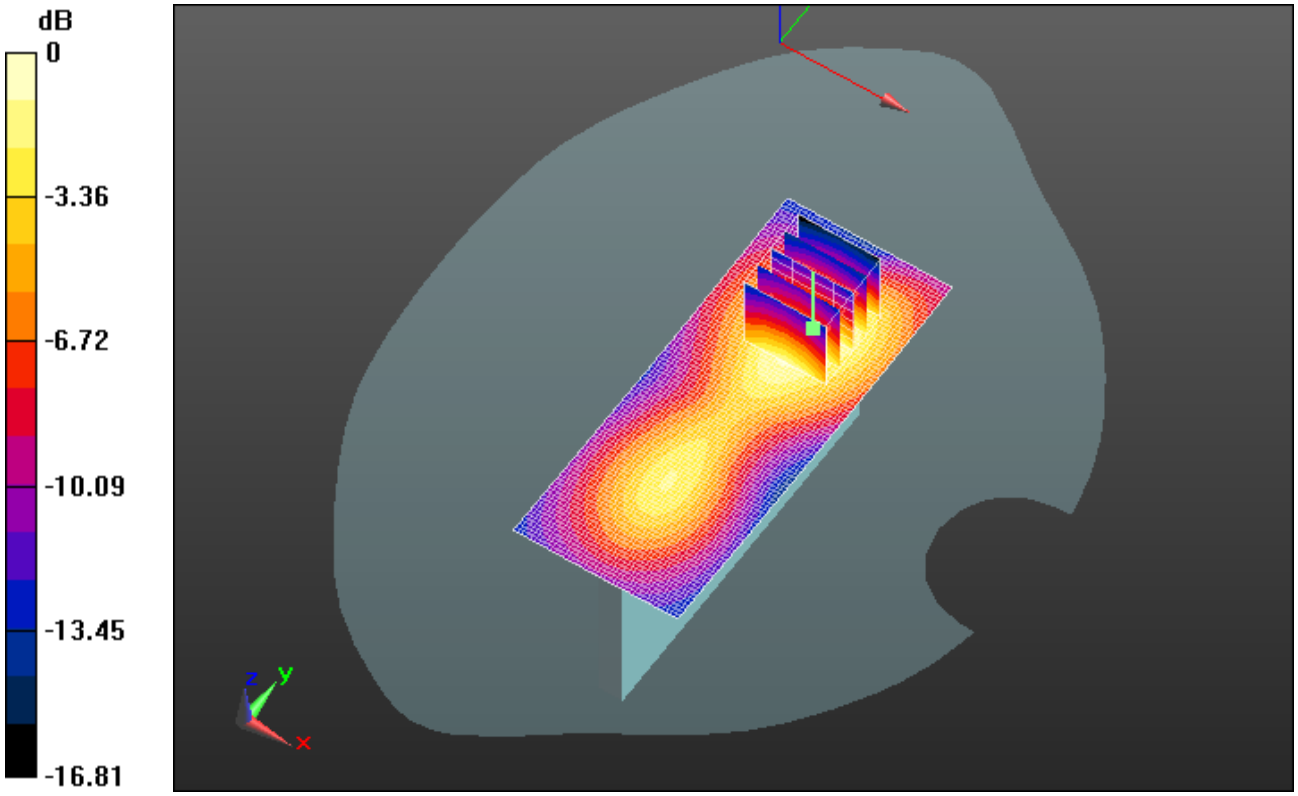
Communication System: WCDMA FDD II; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.506 mho/m; ε_r = 51.137; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.455 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 11.056 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.5780
SAR(1 g) = 0.363 mW/g; SAR(10 g) = 0.215 mW/g
Maximum value of SAR (measured) = 0.438 mW/g



0 dB = 0.440mW/g = -7.13 dB mW/g

Date/Time: 5/30/2012 10:05:35 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Right_UMTS_Band_II_mid_chan_amb_temp_23.3 _liq_temp_21.9C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A099B03

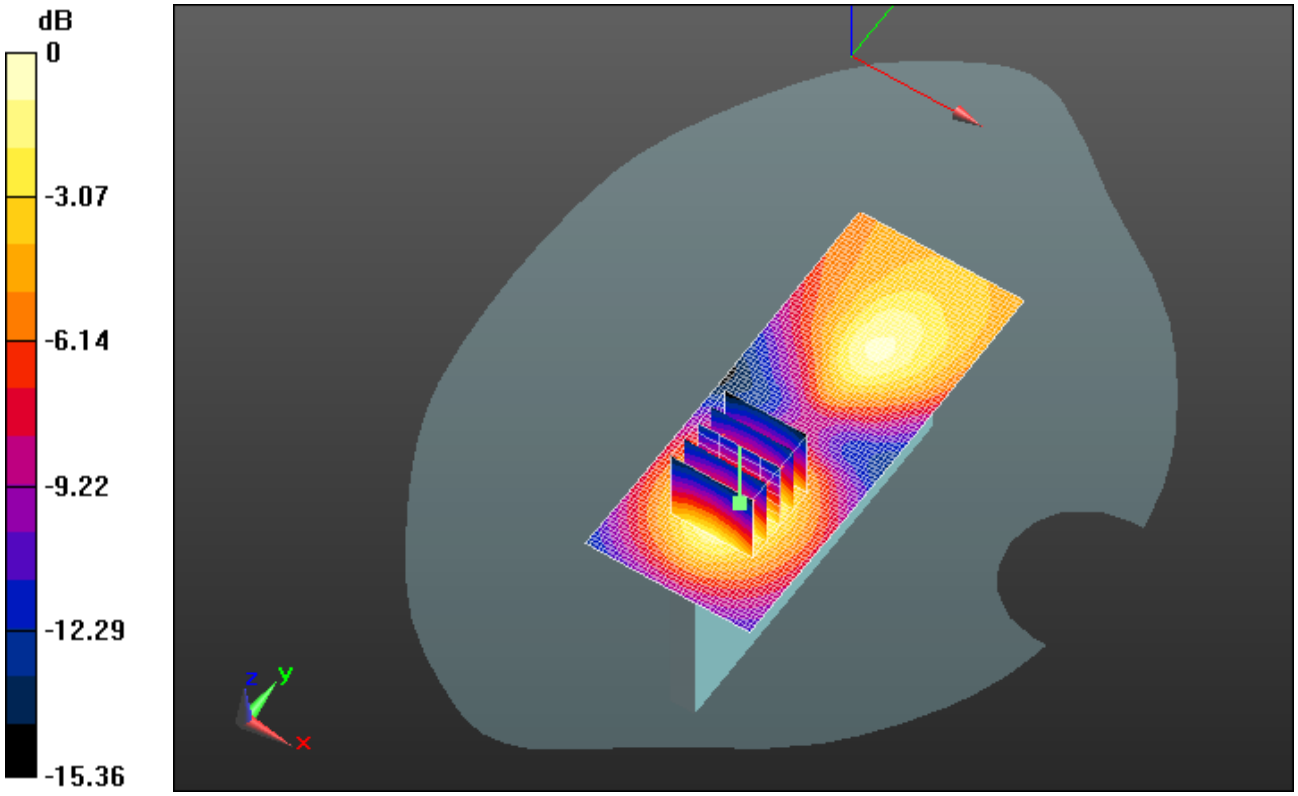
Communication System: WCDMA FDD II; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.506 mho/m; ε_r = 51.137; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.144 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 3.639 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 0.1800
SAR(1 g) = 0.112 mW/g; SAR(10 g) = 0.066 mW/g
Maximum value of SAR (measured) = 0.136 mW/g



0 dB = 0.140mW/g = -17.08 dB mW/g

Date/Time: 5/31/2012 12:52:24 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Bottom_UMTS_Band_II_low_chan_amb_temp_23.2_liq_temp_21.7C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A099B03

Communication System: WCDMA FDD II; Frequency: 1852.4 MHz
Medium parameters used (interpolated): f = 1852.4 MHz; σ = 1.482 mho/m; ε_r = 51.239; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

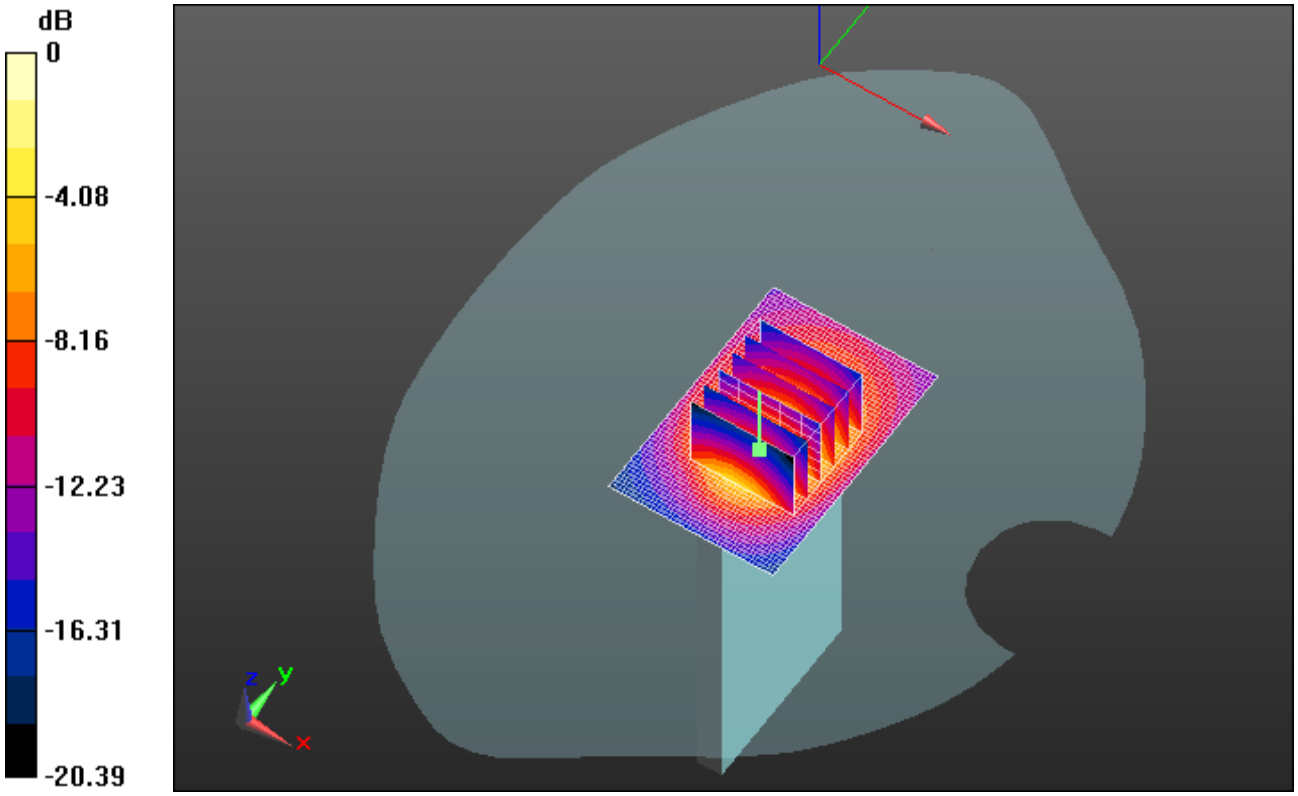
- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 1.485 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 30.726 V/m; Power Drift = -0.0094 dB
Peak SAR (extrapolated) = 1.9220
SAR(1 g) = 1.14 mW/g; SAR(10 g) = 0.610 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.372 mW/g



0 dB = 1.370mW/g = 2.73 dB mW/g

Date/Time: 5/31/2012 12:38:54 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Bottom_UMTS_Band_II_mid_chan_amb_temp_23.1_liq_temp_21.7C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A099B03

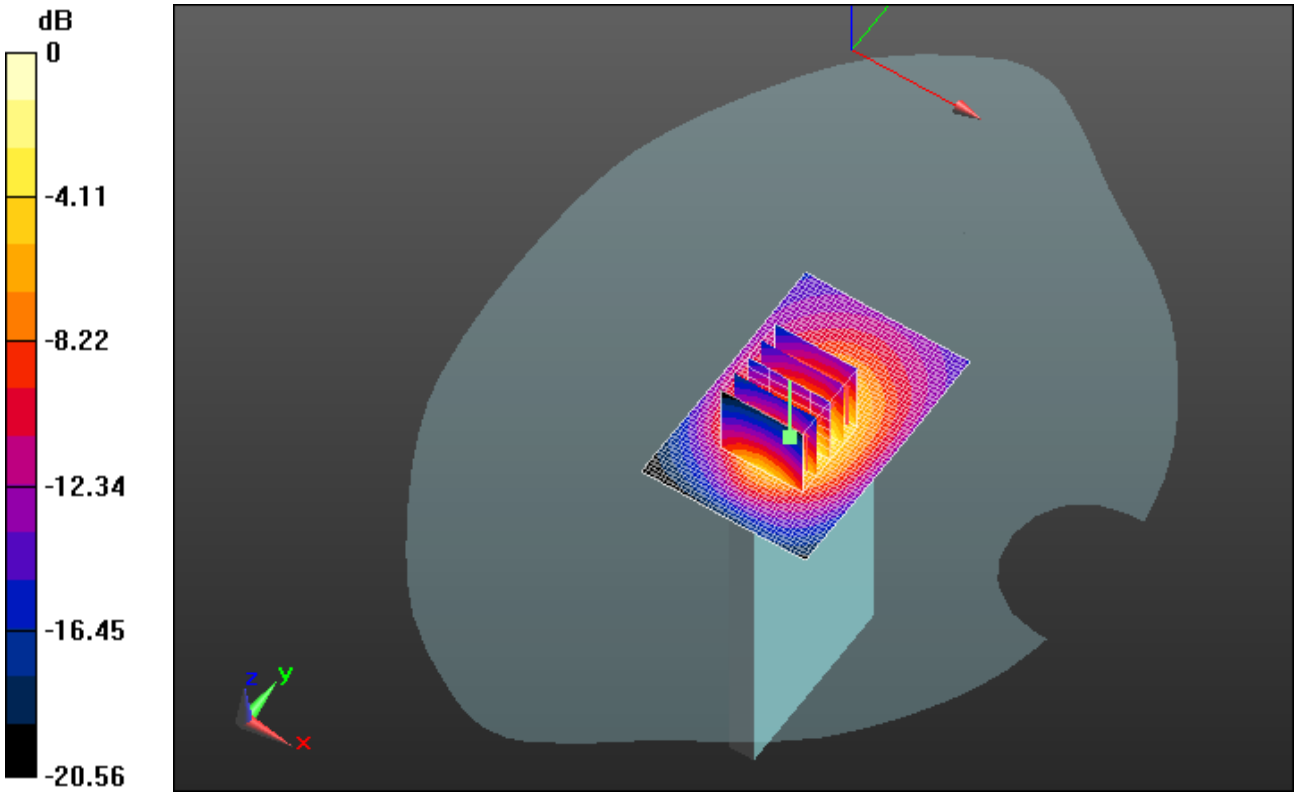
Communication System: WCDMA FDD II; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.506 mho/m; ε_r = 51.137; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.696 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 30.779 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 2.1340
SAR(1 g) = 1.23 mW/g; SAR(10 g) = 0.643 mW/g
Maximum value of SAR (measured) = 1.535 mW/g



0 dB = 1.530mW/g = 3.69 dB mW/g

Date/Time: 5/31/2012 1:08:15 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Bottom_UMTS_Band_II_high_chan_amb_temp_23.2_liq_temp_21.7C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A099B03

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz
Medium parameters used (interpolated): f = 1907.6 MHz; σ = 1.533 mho/m; ε_r = 51.015; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

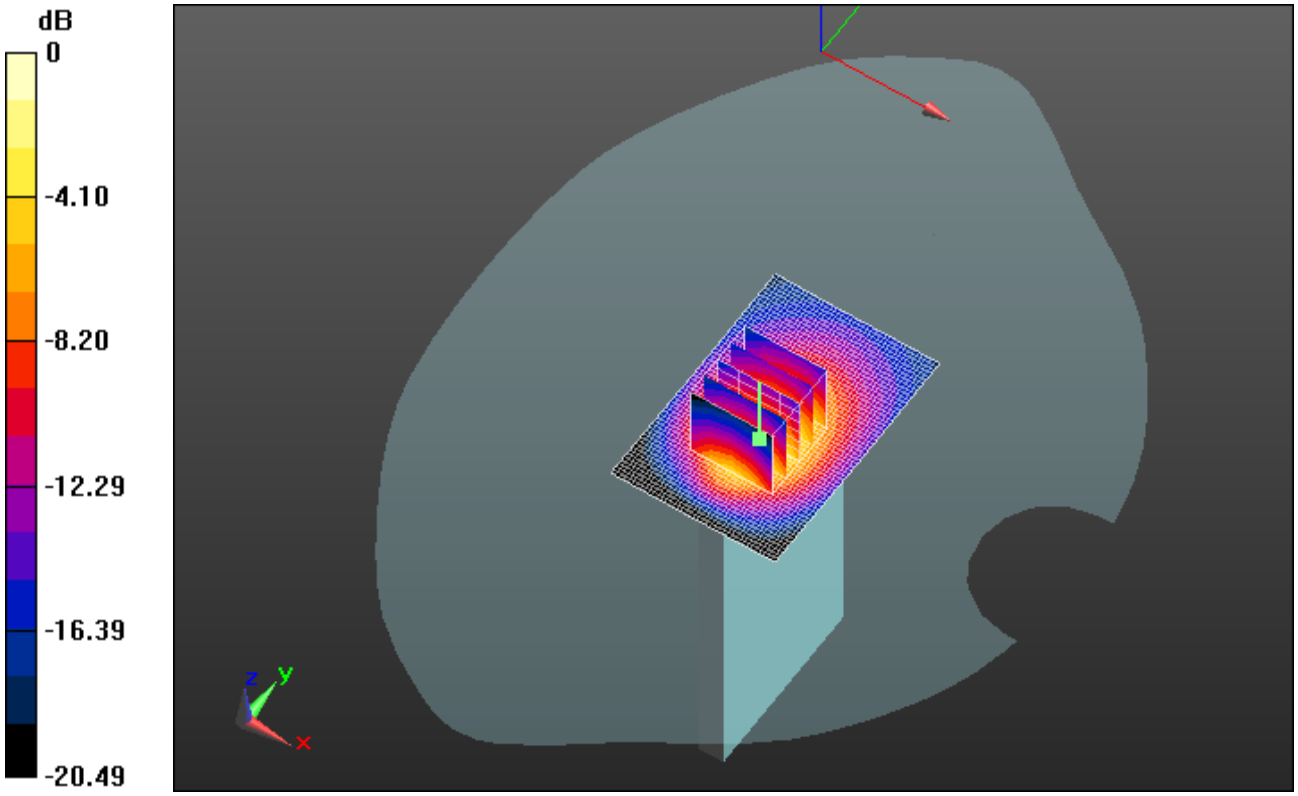
- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 1.997 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 31.832 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 2.4490
SAR(1 g) = 1.39 mW/g; SAR(10 g) = 0.708 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.754 mW/g



0 dB = 1.750mW/g = 4.86 dB mW/g

Date/Time: 7/31/2012 1:04:14 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Bottom_UMTS_Band_II_high_chan_amb_temp_23.4_liq_temp_22.7C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A4A5839

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz
Medium parameters used (interpolated): f = 1907.6 MHz; σ = 1.566 mho/m; ε_r = 50.899; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

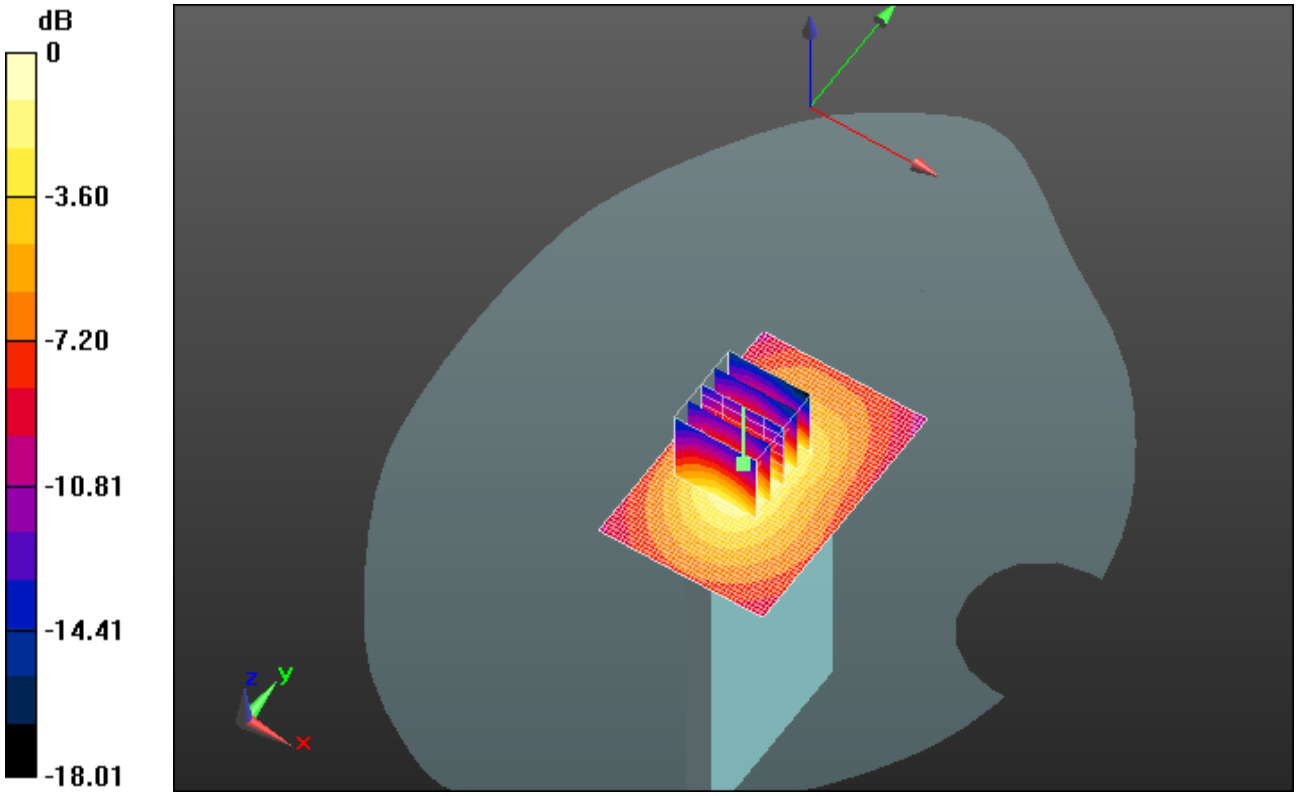
- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.466 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 17.120 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.7030
SAR(1 g) = 0.421 mW/g; SAR(10 g) = 0.232 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.525 mW/g



0 dB = 0.520mW/g = -5.68 dB mW/g

Date/Time: 7/23/2012 7:43:28 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_802.11b_mid_chan_amb_temp_23.7_liq_temp_22.6C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A4A5839

Communication System: 802.11 b (2450); Frequency: 2437 MHz
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.922 mho/m; ε_r = 52.565; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

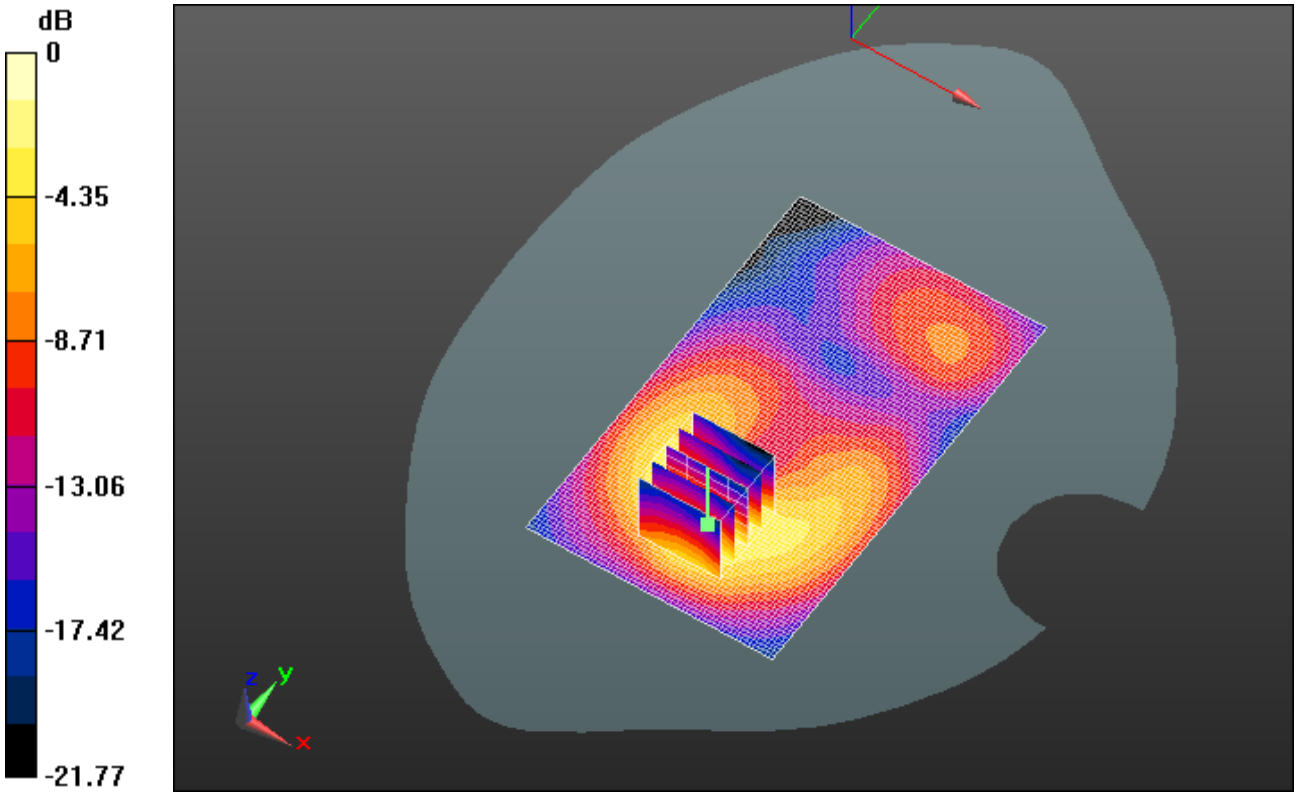
- Probe: ES3DV3 - SN3225; ConvF(4.3, 4.3, 4.3); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.215 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 3.077 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 0.3260
SAR(1 g) = 0.161 mW/g; SAR(10 g) = 0.081 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.206 mW/g



0 dB = 0.210mW/g = -13.56 dB mW/g

Date/Time: 7/23/2012 8:05:06 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Front_802.11b_mid_chan_amb_temp_23.5_liq_temp_22.6C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A4A5839

Communication System: 802.11 b (2450); Frequency: 2437 MHz
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.922 mho/m; ε_r = 52.565; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

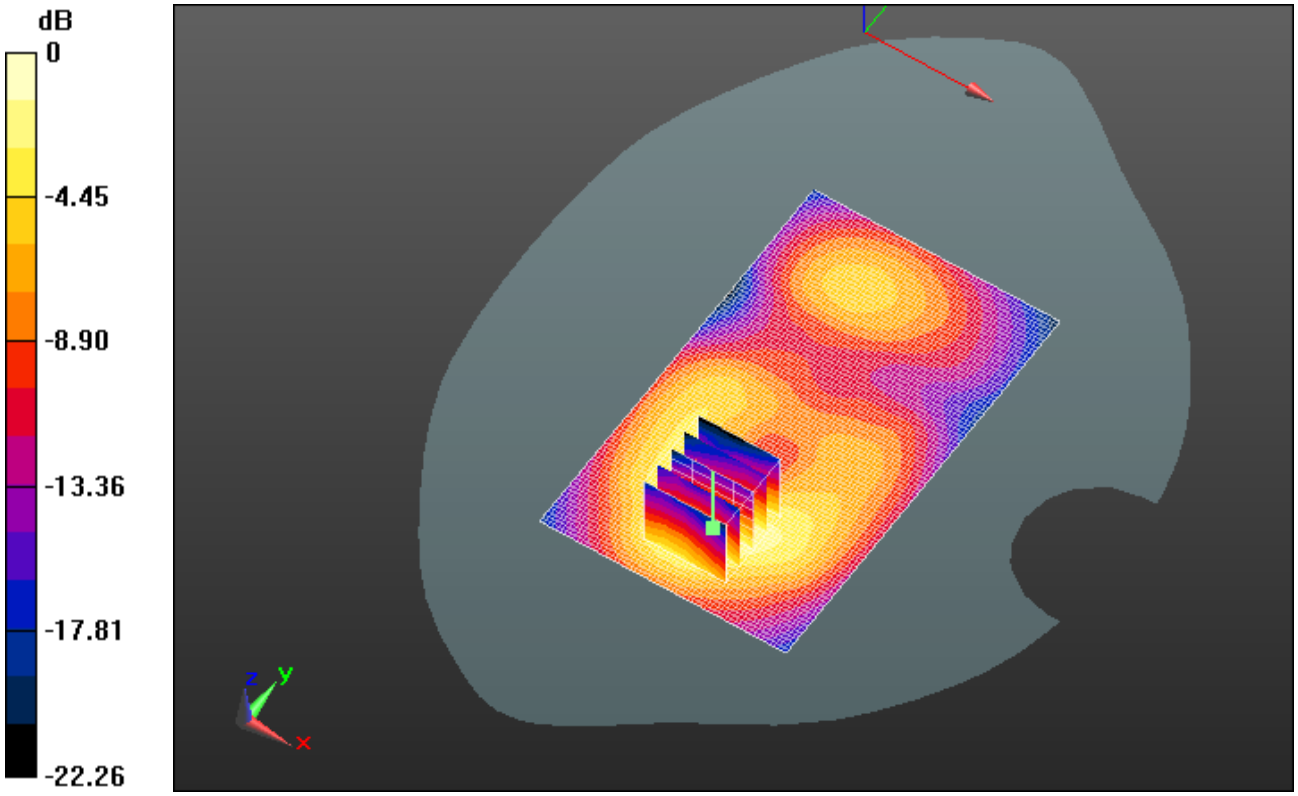
- Probe: ES3DV3 - SN3225; ConvF(4.3, 4.3, 4.3); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.111 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 2.968 V/m; Power Drift = 0.39 dB
Peak SAR (extrapolated) = 0.1760
SAR(1 g) = 0.091 mW/g; SAR(10 g) = 0.046 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.115 mW/g



0 dB = 0.120mW/g = -18.42 dB mW/g

Date/Time: 7/24/2012 12:46:46 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Left_802.11b_mid_chan_amb_temp_23.2C_liq_temp_22.2C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A4A5839

Communication System: 802.11 b (2450); Frequency: 2437 MHz
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.922 mho/m; ε_r = 52.565; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

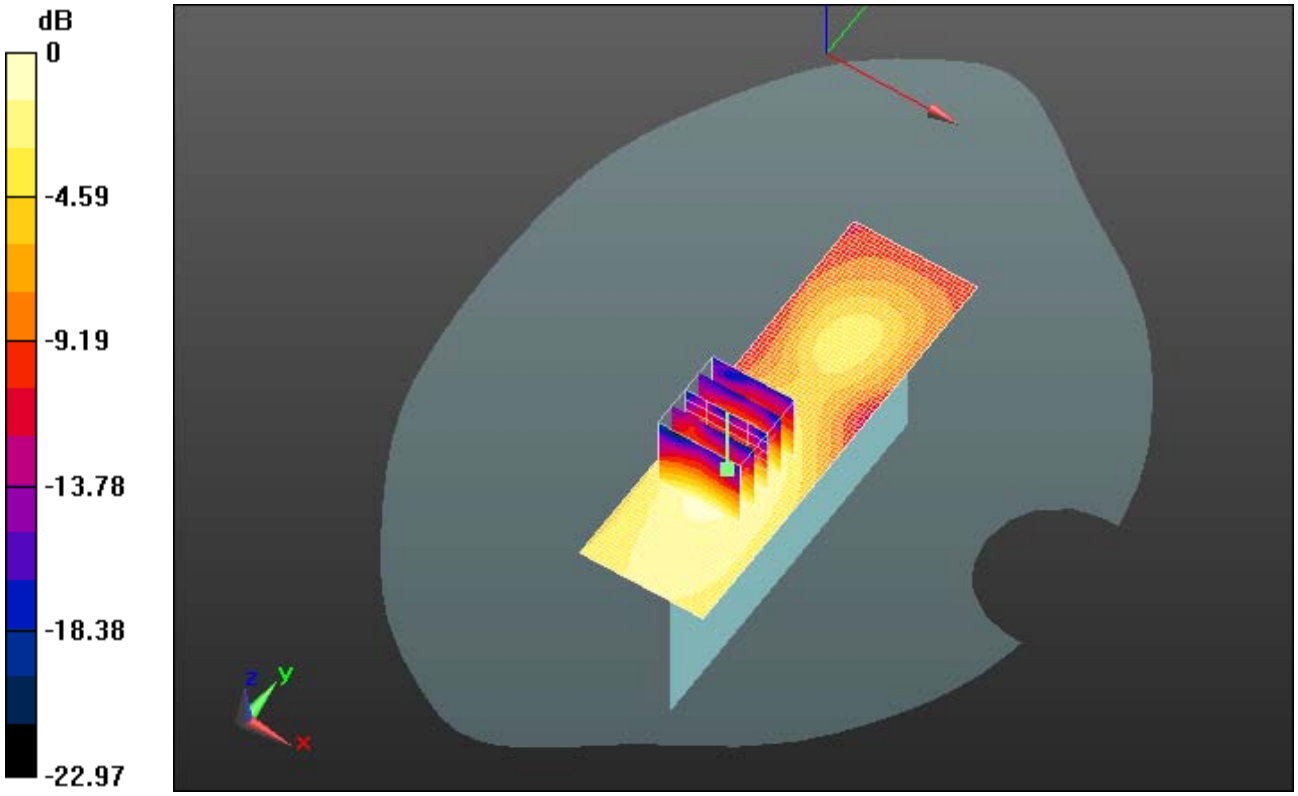
- Probe: ES3DV3 - SN3225; ConvF(4.3, 4.3, 4.3); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (31x101x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.029 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 2.793 V/m; Power Drift = 0.39 dB
Peak SAR (extrapolated) = 0.0480
SAR(1 g) = 0.025 mW/g; SAR(10 g) = 0.014 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.030 mW/g



0 dB = 0.030mW/g = -30.46 dB mW/g

Date/Time: 7/24/2012 12:32:06 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Right_802.11b_mid_chan_amb_temp_23.0C_liq_temp_22.2C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A4A5839

Communication System: 802.11 b (2450); Frequency: 2437 MHz
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.922 mho/m; ε_r = 52.565; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

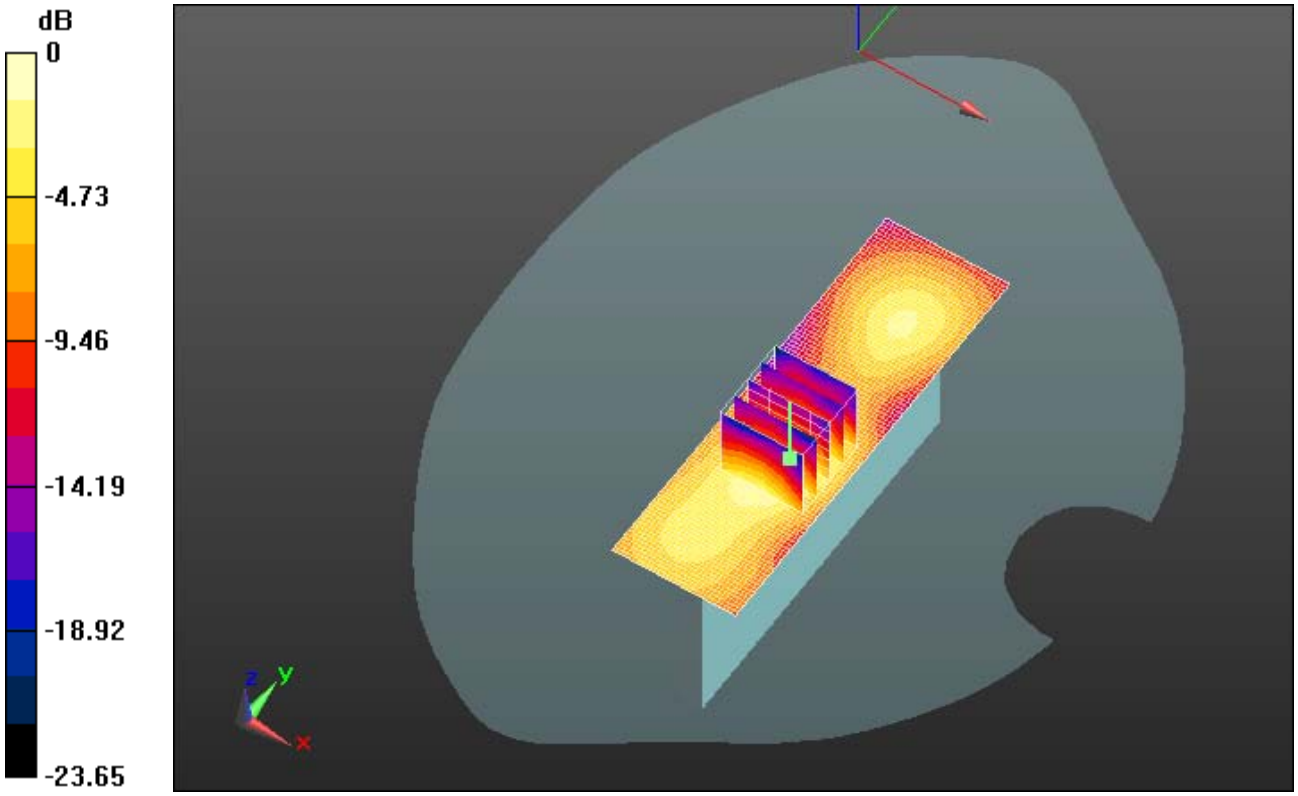
- Probe: ES3DV3 - SN3225; ConvF(4.3, 4.3, 4.3); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (31x101x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.055 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 4.316 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.0810
SAR(1 g) = 0.044 mW/g; SAR(10 g) = 0.023 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.055 mW/g



0 dB = 0.060mW/g = -24.44 dB mW/g

Date/Time: 7/24/2012 1:03:39 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Top_802.11b_mid_chan_amb_temp_23.4_liq_temp_22.2C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A4A5839

Communication System: 802.11 b (2450); Frequency: 2437 MHz
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.922 mho/m; ε_r = 52.565; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

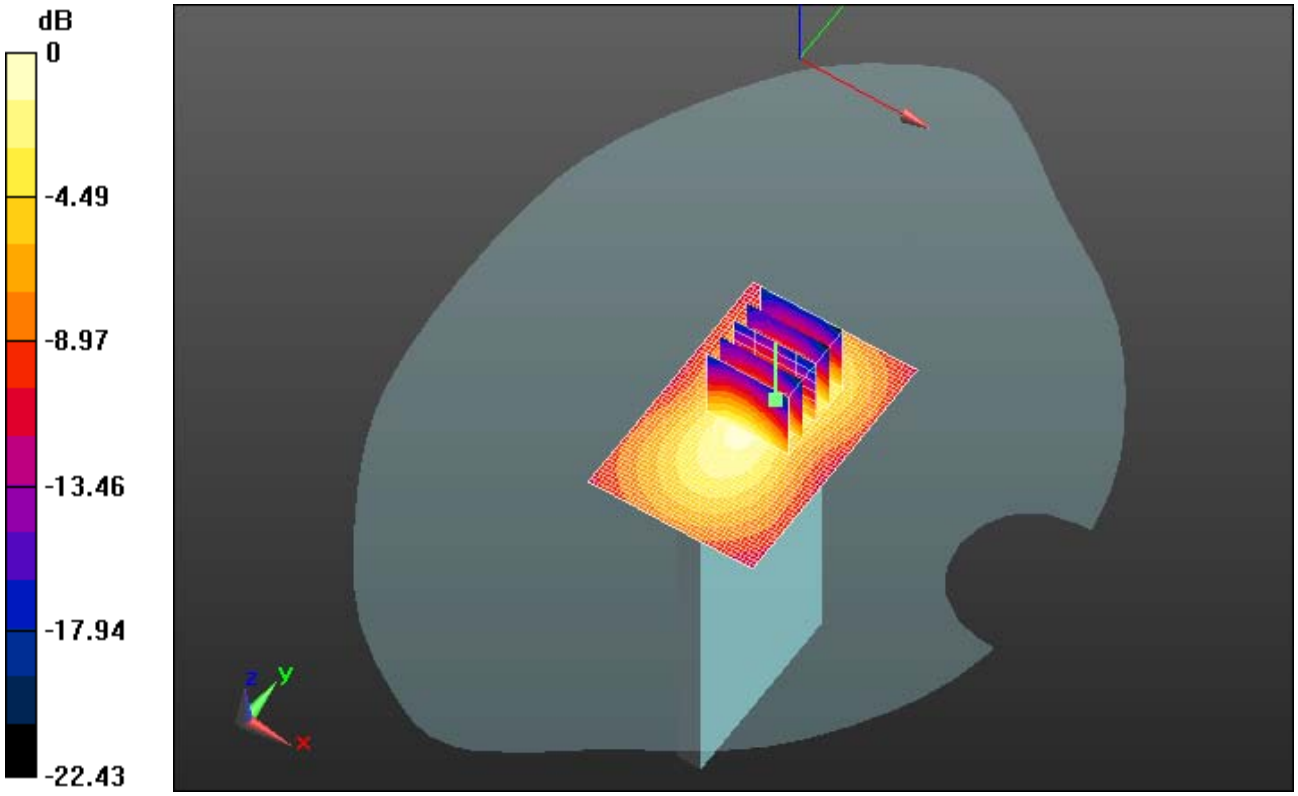
- Probe: ES3DV3 - SN3225; ConvF(4.3, 4.3, 4.3); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.097 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 6.727 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.1510
SAR(1 g) = 0.078 mW/g; SAR(10 g) = 0.040 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.099 mW/g



0 dB = 0.100mW/g = -20.00 dB mW/g

Date/Time: 7/24/2012 1:24:54 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_Headset_802.11b_mid_chan_amb_temp_23.2_liq_temp_22.2C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A4A5839

Communication System: 802.11 b (2450); Frequency: 2437 MHz
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.922 mho/m; ε_r = 52.565; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

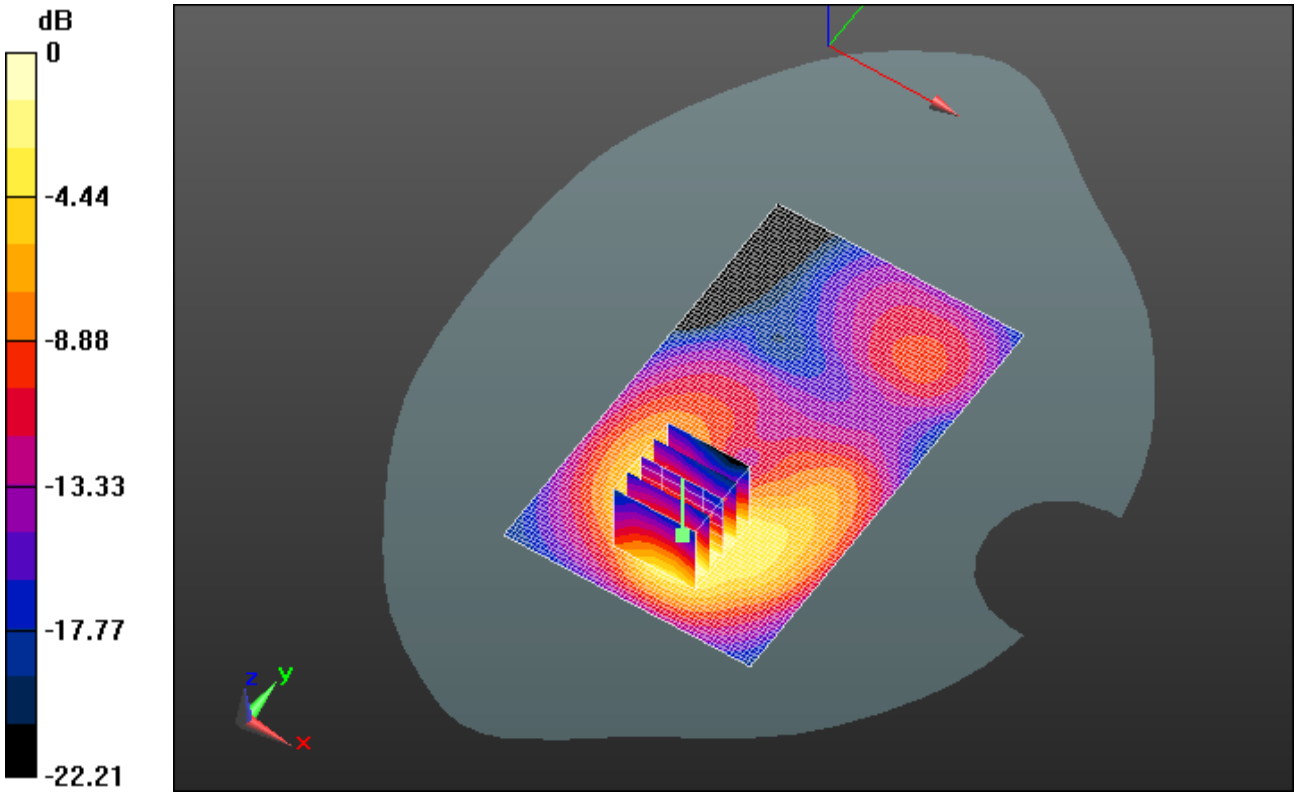
- Probe: ES3DV3 - SN3225; ConvF(4.3, 4.3, 4.3); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.225 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 2.568 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.3770
SAR(1 g) = 0.179 mW/g; SAR(10 g) = 0.086 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.220 mW/g



0 dB = 0.220mW/g = -13.15 dB mW/g

Z axis plot for the worst case body configuration