APPENDIX C2: SAR DISTRIBUTION PLOTS FOR MOBILE HOTSPOT

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Date/Time: 6/18/2012 3:16:55 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_17_mid_chan_QPSK_RB_25_Offset_0_amb_temp_23.0_liq_temp_21.5C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A211C01

Communication System: LTE; Frequency: 710 MHz
Medium parameters used: f = 710 MHz; σ = 0.918 mho/m; ε_r = 55.812; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.27, 6.27, 6.27); 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) = 0.671 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 18.257 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.9810
SAR(1 g) = 0.585 mW/g; SAR(10 g) = 0.390 mW/g
Maximum value of SAR (measured) = 0.683 mW/g

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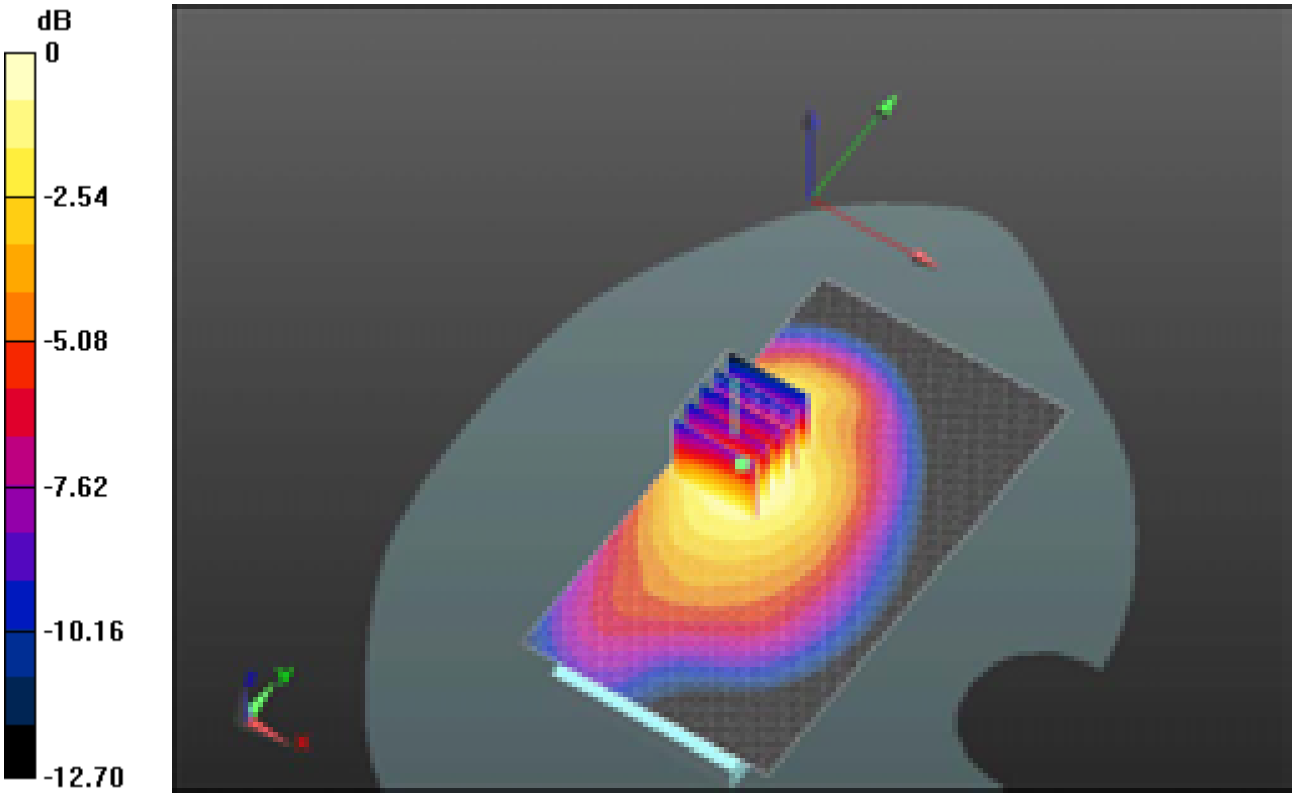

0 dB = 0.680mW/g = -3.35 dB mW/g

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Date/Time: 6/18/2012 3:00:30 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_17_mid_chan_QPSK_RB_1_Offset_0_amb_temp_23.1_liq_temp_21.5C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A211C01

Communication System: LTE; Frequency: 710 MHz
Medium parameters used: f = 710 MHz; σ = 0.918 mho/m; ε_r = 55.812; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.27, 6.27, 6.27); 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) = 0.828 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 20.500 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.1690
SAR(1 g) = 0.740 mW/g; SAR(10 g) = 0.487 mW/g
Maximum value of SAR (measured) = 0.867 mW/g

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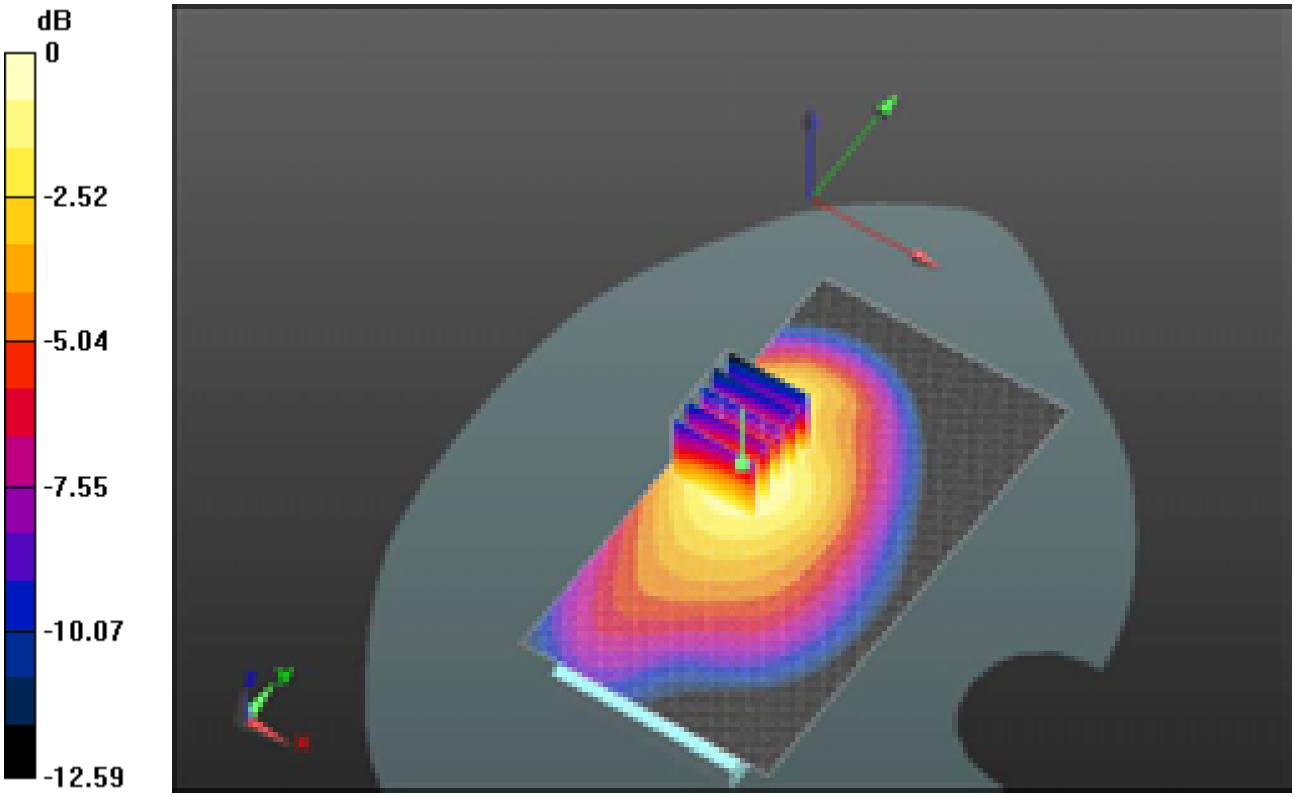

0 dB = 0.870mW/g = -1.21 dB mW/g

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Date/Time: 6/18/2012 3:34:54 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_17_mid_chan_QPSK_RB_1_Offset_49_amb_temp_22.8_liq_temp_21.5C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A211C01

Communication System: LTE; Frequency: 710 MHz
Medium parameters used: f = 710 MHz; σ = 0.918 mho/m; ε_r = 55.812; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.27, 6.27, 6.27); 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) = 0.868 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 20.896 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 1.2000
SAR(1 g) = 0.757 mW/g; SAR(10 g) = 0.500 mW/g
Maximum value of SAR (measured) = 0.887 mW/g

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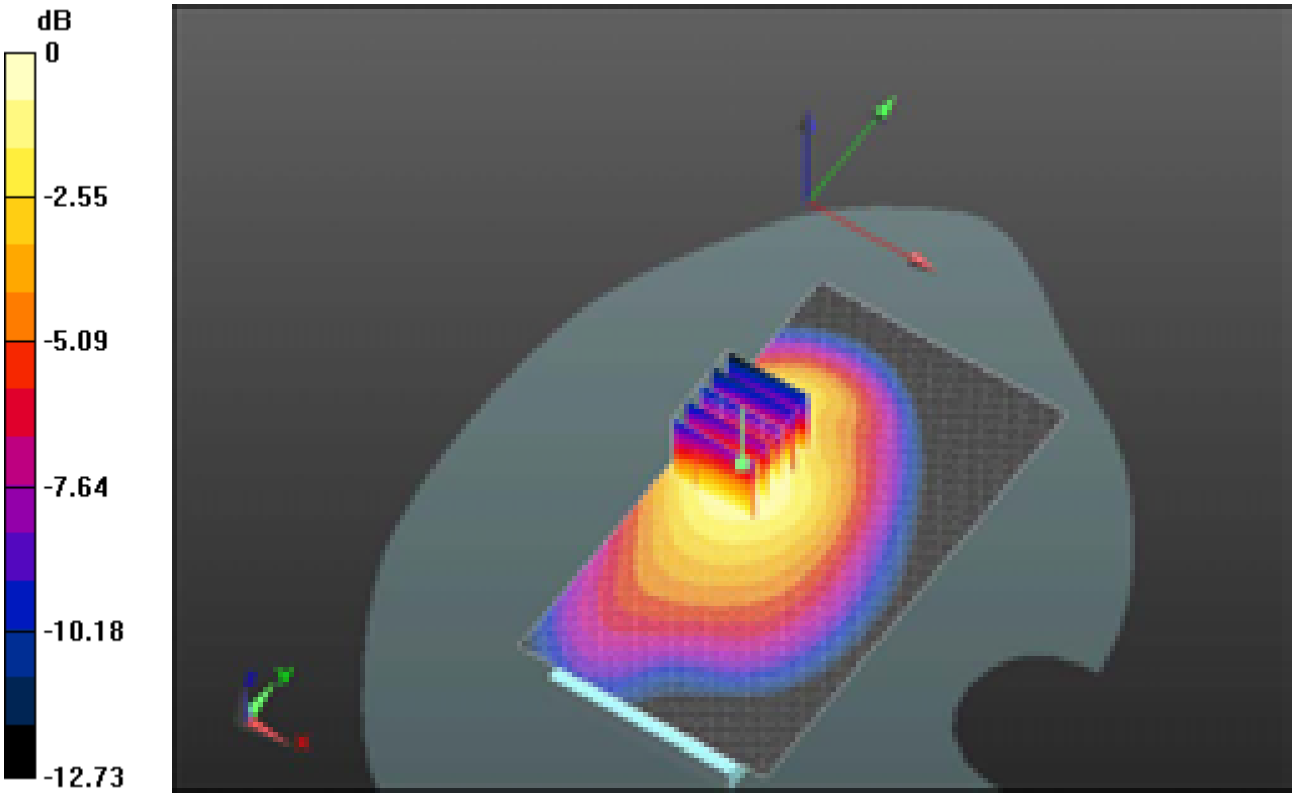

0 dB = 0.890mW/g = -1.01 dB mW/g

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Date/Time: 6/18/2012 3:51:44 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_17_mid_chan_16QAM_RB_30_Offset_20_amb_temp_23.1_liq_temp_21.5C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A211C01

Communication System: LTE; Frequency: 710 MHz
Medium parameters used: f = 710 MHz; σ = 0.918 mho/m; ε_r = 55.812; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.27, 6.27, 6.27); 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) = 0.531 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 16.246 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.7520
SAR(1 g) = 0.468 mW/g; SAR(10 g) = 0.307 mW/g
Maximum value of SAR (measured) = 0.553 mW/g

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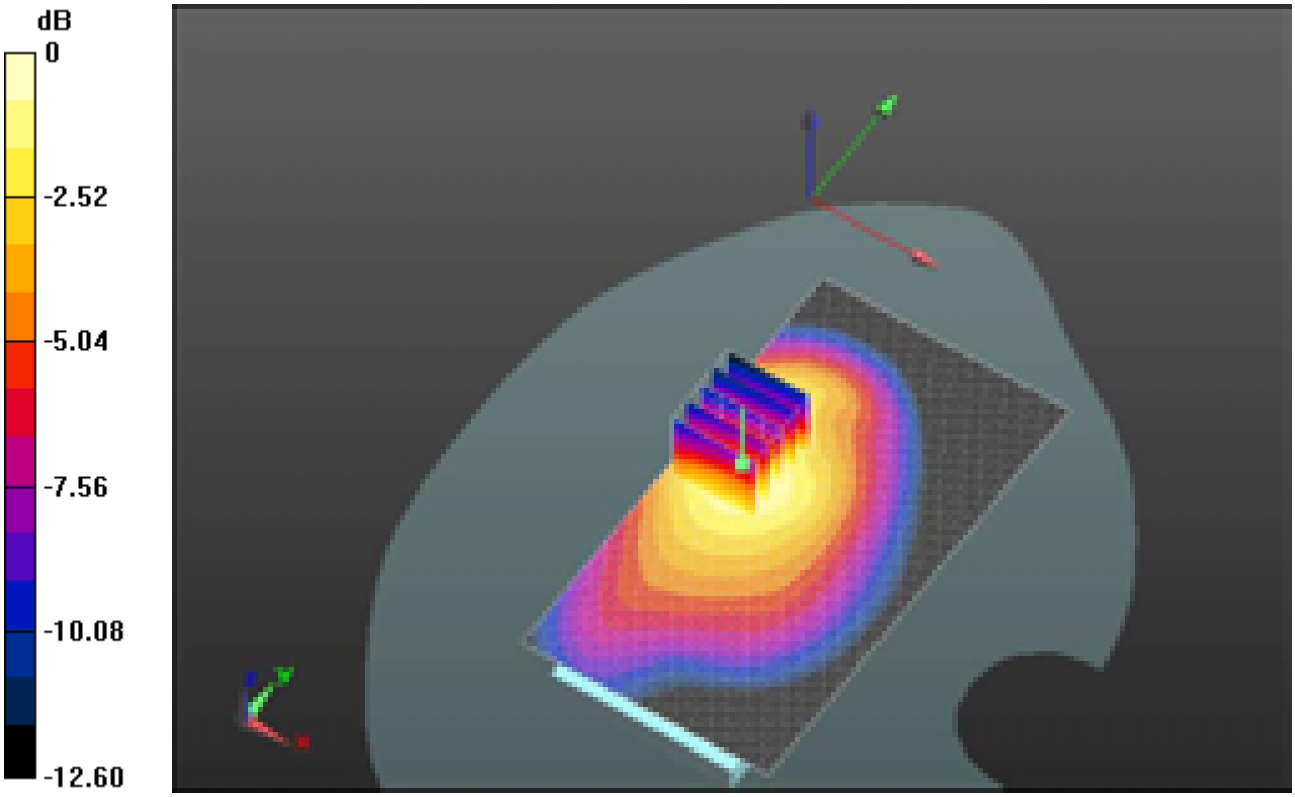

0 dB = 0.550mW/g = -5.19 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_17_mid_chan_16QAM_RB_1_Offset_0_amb_temp_22.9_liq_temp_21.5C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A211C01

Communication System: LTE; Frequency: 710 MHz
Medium parameters used: f = 710 MHz; σ = 0.918 mho/m; ε_r = 55.812; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.27, 6.27, 6.27); 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) = 0.642 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 18.003 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 0.8410
SAR(1 g) = 0.539 mW/g; SAR(10 g) = 0.360 mW/g
Maximum value of SAR (measured) = 0.634 mW/g

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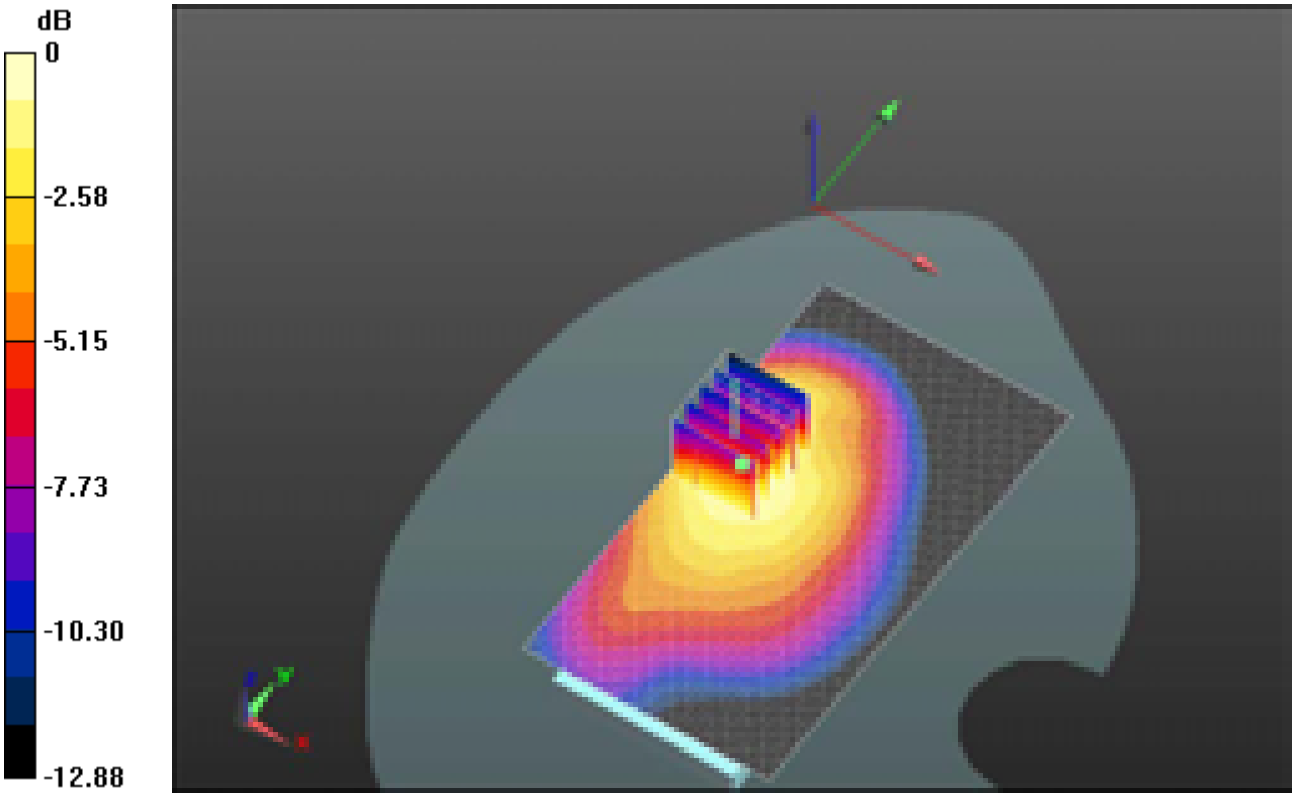

0 dB = 0.630mW/g = -4.01 dB mW/g

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Date/Time: 6/18/2012 4:24:18 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_17_mid_chan_16QAM_RB_1_Offset_49_amb_temp_22.7_liq_temp_21.5C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A211C01

Communication System: LTE; Frequency: 710 MHz
Medium parameters used: f = 710 MHz; σ = 0.918 mho/m; ε_r = 55.812; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.27, 6.27, 6.27); 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) = 0.741 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 18.395 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 1.0190
SAR(1 g) = 0.642 mW/g; SAR(10 g) = 0.412 mW/g
Maximum value of SAR (measured) = 0.746 mW/g

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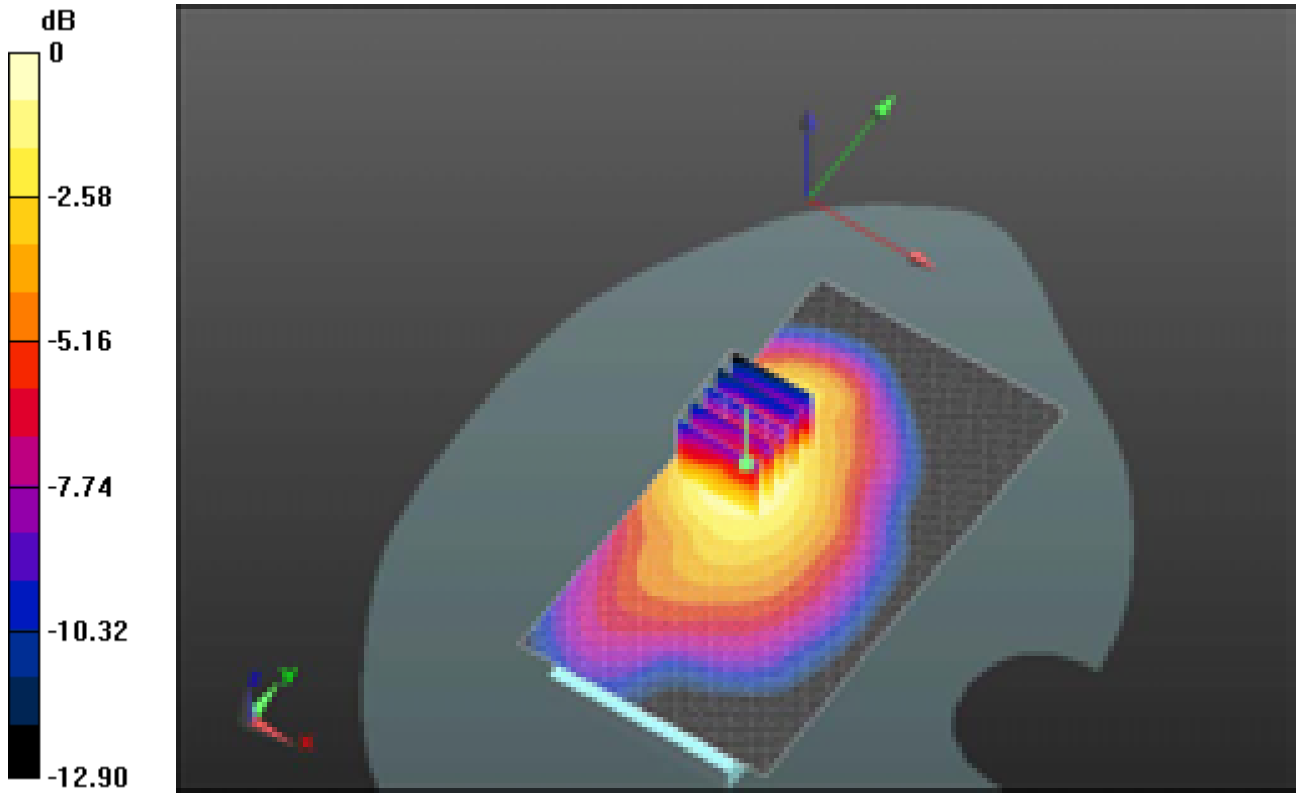

0 dB = 0.750mW/g = -2.50 dB mW/g

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Date/Time: 6/18/2012 5:55:49 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Front_LTE_17_mid_chan_QPSK_RB_1_Offset_49_amb_temp_22.6_liq_temp_21.3C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A211C01

Communication System: LTE; Frequency: 710 MHz
Medium parameters used: f = 710 MHz; σ = 0.918 mho/m; ε_r = 55.812; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.27, 6.27, 6.27); 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) = 0.789 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 22.098 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.9850
SAR(1 g) = 0.668 mW/g; SAR(10 g) = 0.457 mW/g
Maximum value of SAR (measured) = 0.783 mW/g

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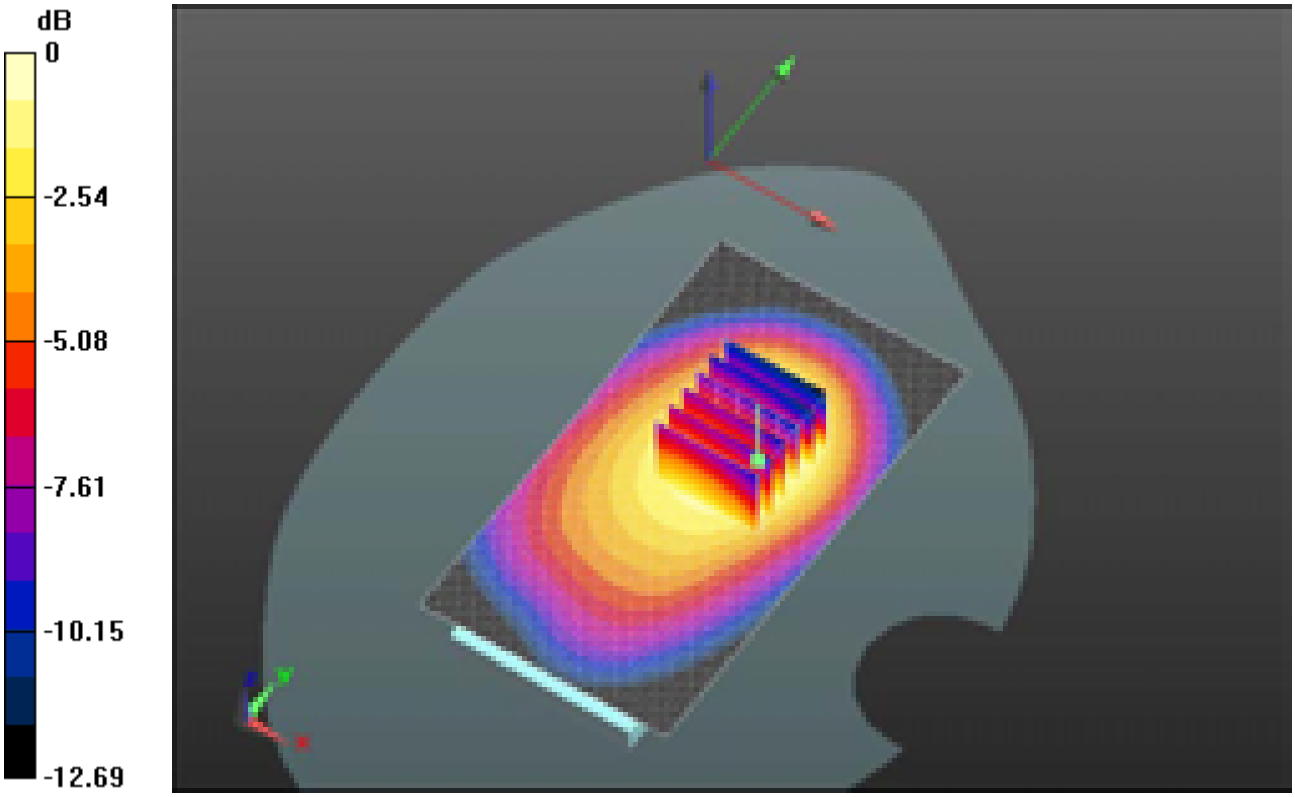

0 dB = 0.780mW/g = -2.16 dB mW/g

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Date/Time: 6/18/2012 11:11:22 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Left_LTE_17_mid_chan_QPSK_RB_1_Offset_49_amb_temp_23.1C_liq_temp_21.5C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A211C01

Communication System: LTE; Frequency: 710 MHz
Medium parameters used: f = 710 MHz; σ = 0.918 mho/m; ε_r = 55.812; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.27, 6.27, 6.27); 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) = 0.466 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 21.274 V/m; Power Drift = -0.0049 dB
Peak SAR (extrapolated) = 0.5920
SAR(1 g) = 0.403 mW/g; SAR(10 g) = 0.272 mW/g
Maximum value of SAR (measured) = 0.468 mW/g

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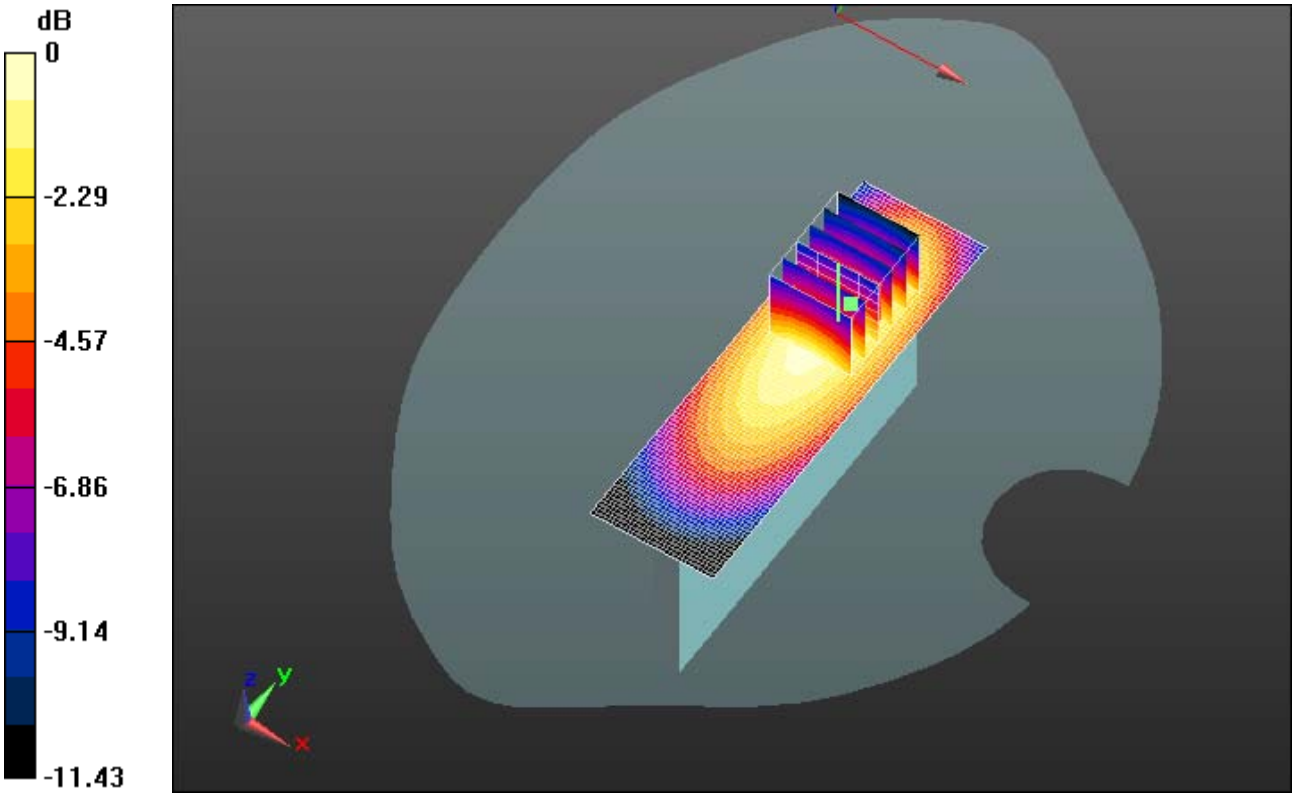

0 dB = 0.470mW/g = -6.56 dB mW/g

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Date/Time: 6/18/2012 10:24:18 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Right_LTE_17_mid_chan_QPSK_RB_1_Offset_49_amb_temp_22.8C_liq_temp_21.6C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A211C01

Communication System: LTE; Frequency: 710 MHz
Medium parameters used: f = 710 MHz; σ = 0.918 mho/m; ε_r = 55.812; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.27, 6.27, 6.27); 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) = 0.268 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 16.432 V/m; Power Drift = -0.29 dB
Peak SAR (extrapolated) = 0.3300
SAR(1 g) = 0.236 mW/g; SAR(10 g) = 0.164 mW/g
Maximum value of SAR (measured) = 0.270 mW/g

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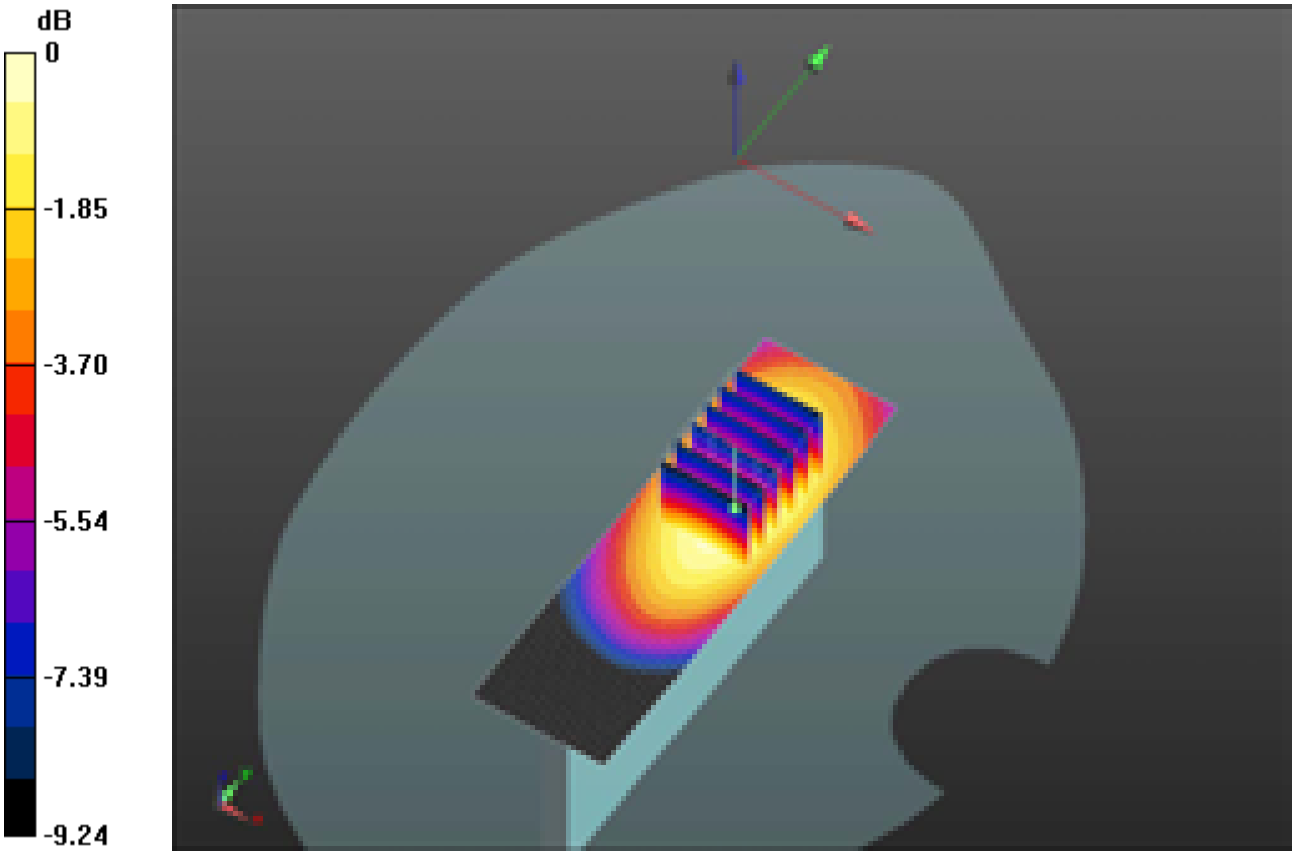

0 dB = 0.270mW/g = -11.37 dB mW/g

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Date/Time: 6/18/2012 11:33:50 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Bottom_LTE_17_mid_chan_QPSK_RB_1_Offset_49_amb_temp_22.9_liq_temp_21.5C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A211C01

Communication System: LTE; Frequency: 710 MHz
Medium parameters used: f = 710 MHz; σ = 0.918 mho/m; ε_r = 55.812; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.27, 6.27, 6.27); 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) = 0.182 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 14.213 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.2860
SAR(1 g) = 0.146 mW/g; SAR(10 g) = 0.077 mW/g
Maximum value of SAR (measured) = 0.186 mW/g

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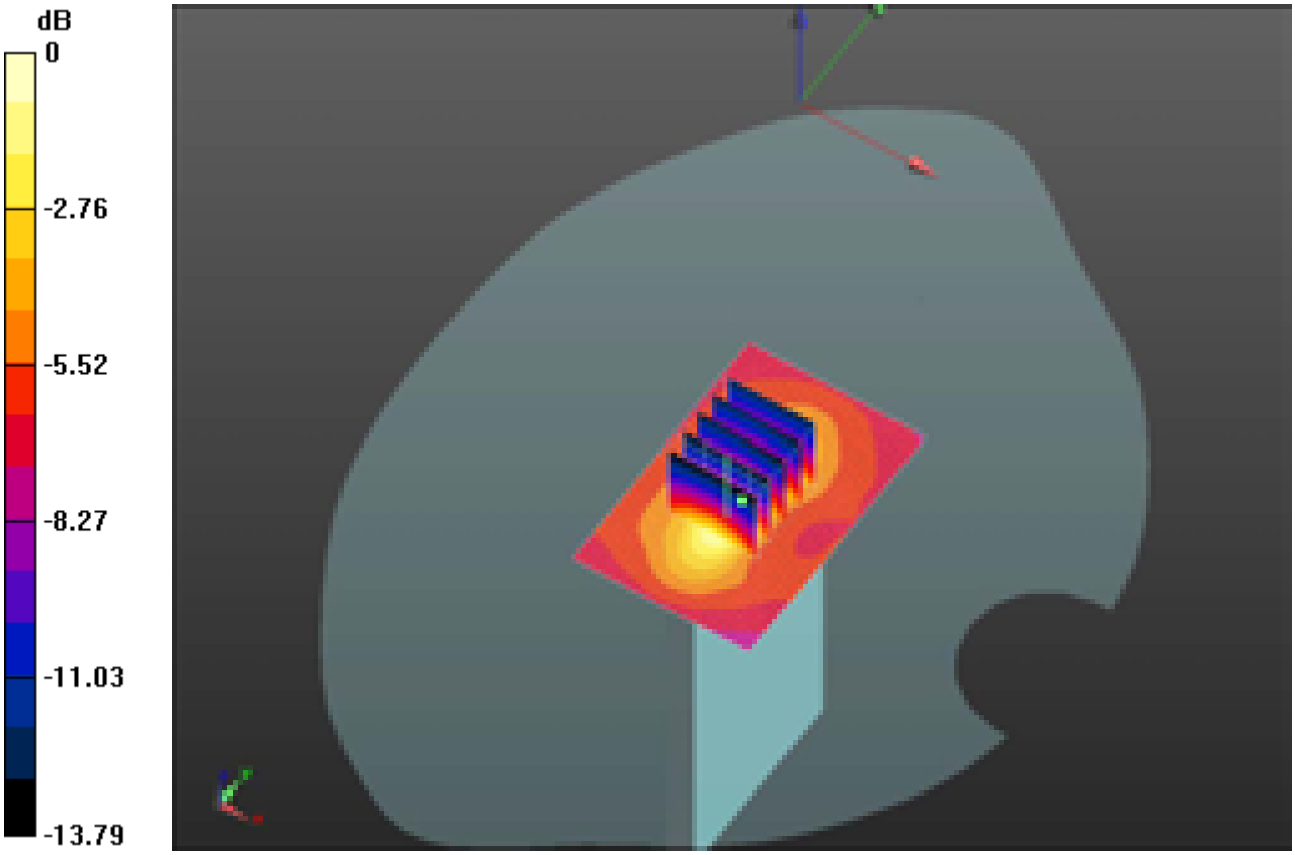

0 dB = 0.190mW/g = -14.42 dB mW/g

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Date/Time: 6/18/2012 5:20:37 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_Headset_LTE_17_mid_chan_QPSK_RB_1_Offset_49_amb_temp_22.7_liq_temp_21.4C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A211C01

Communication System: LTE; Frequency: 710 MHz
Medium parameters used: f = 710 MHz; σ = 0.918 mho/m; ε_r = 55.812; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.27, 6.27, 6.27); 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) = 0.833 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 20.298 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.1440
SAR(1 g) = 0.707 mW/g; SAR(10 g) = 0.457 mW/g
Maximum value of SAR (measured) = 0.842 mW/g

Configuration/Touch position -/Zoom Scan 2 (5x5x7) (7x9x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 20.298 V/m; Power Drift = -0.0098 dB
Peak SAR (extrapolated) = 1.1130

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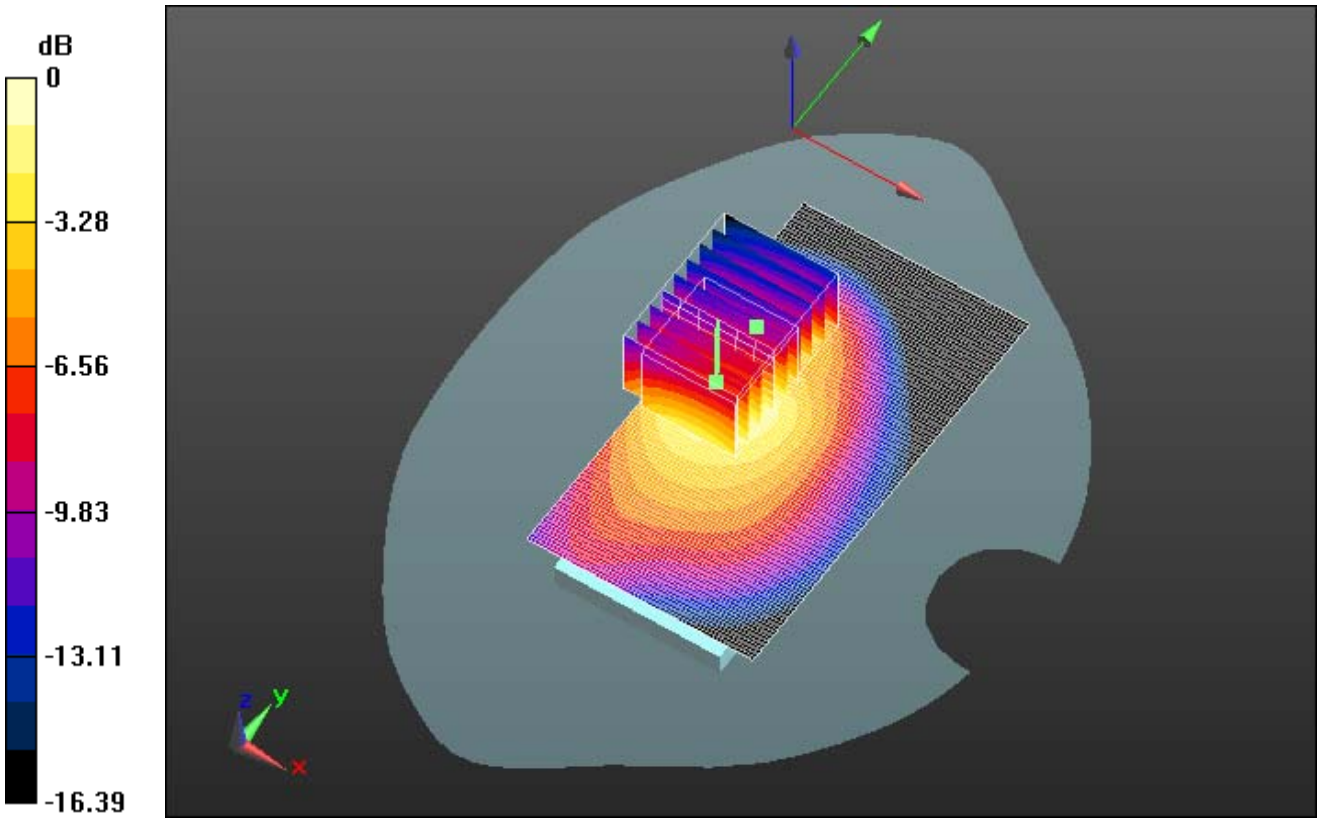
SAR(1 g) = 0.696 mW/g; SAR(10 g) = 0.453 mW/g
Maximum value of SAR (measured) = 0.817 mW/g



0 dB = 0.820mW/g = -1.72 dB mW/g

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Date/Time: 10/29/2012 12:32:14 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_17_low_chan_QPSK_RB_1_Offset_49_amb_temp_24.1_liq_temp_22.8C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A8C7018

Communication System: LTE 700_Band 17; Frequency: 704 MHz
Medium parameters used (interpolated): f = 704 MHz; σ = 0.913 mho/m; ε_r = 54.695; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.27, 6.27, 6.27); 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) = 0.745 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 19.983 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.9960
SAR(1 g) = 0.641 mW/g; SAR(10 g) = 0.427 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.743 mW/g

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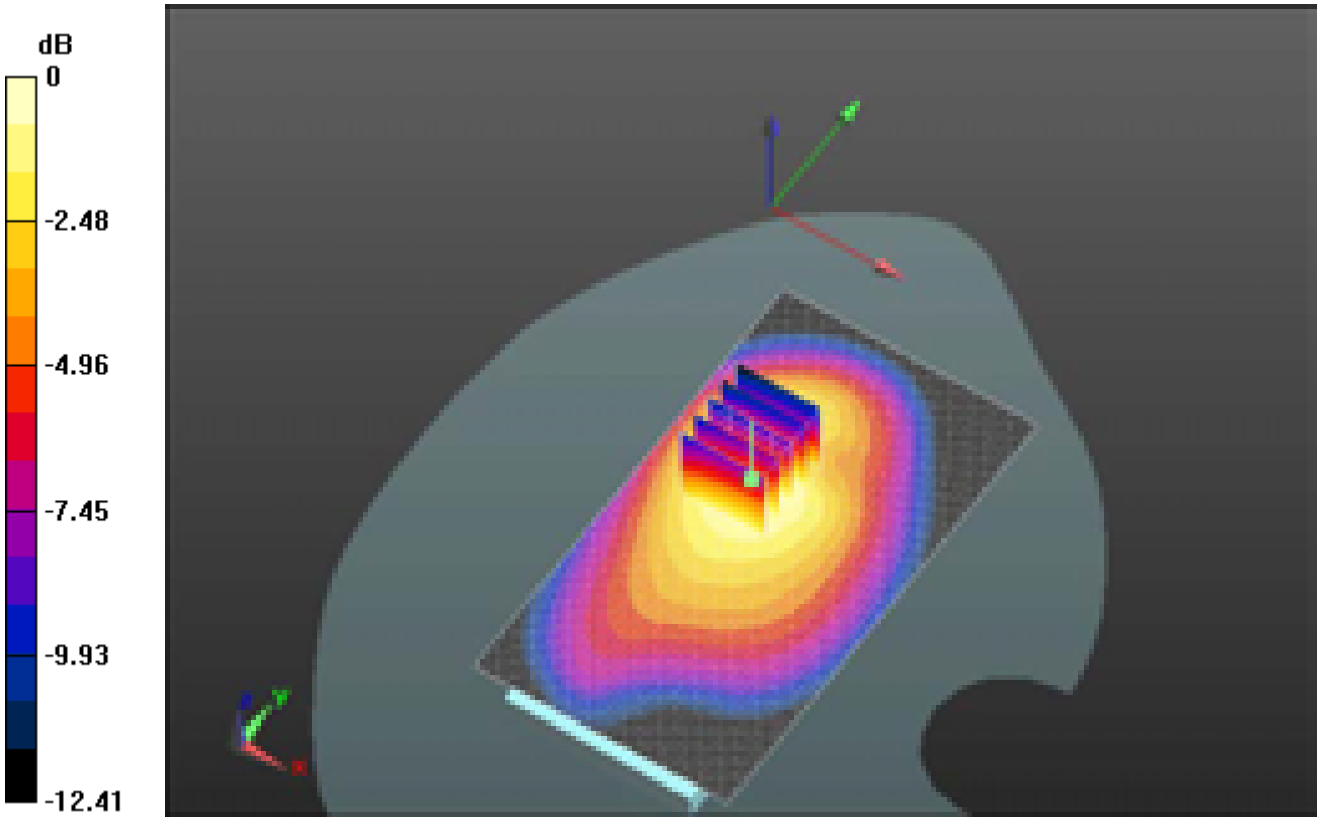

0 dB = 0.740mW/g = -2.62 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_17_mid_chan_QPSK_RB_1_Offset_49 _amb_temp_24.0_liq_temp_22.8C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A8C7018

Communication System: LTE; Frequency: 710 MHz
Medium parameters used: f = 710 MHz; σ = 0.918 mho/m; ε_r = 54.657; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.27, 6.27, 6.27); 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) = 1.023 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 23.644 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 1.3610
SAR(1 g) = 0.876 mW/g; SAR(10 g) = 0.582 mW/g
Maximum value of SAR (measured) = 1.018 mW/g

Configuration/Touch position -/Zoom Scan 2 (5x5x7) (7x9x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 23.644 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 1.3280
SAR(1 g) = 0.864 mW/g; SAR(10 g) = 0.576 mW/g
Maximum value of SAR (measured) = 1.003 mW/g

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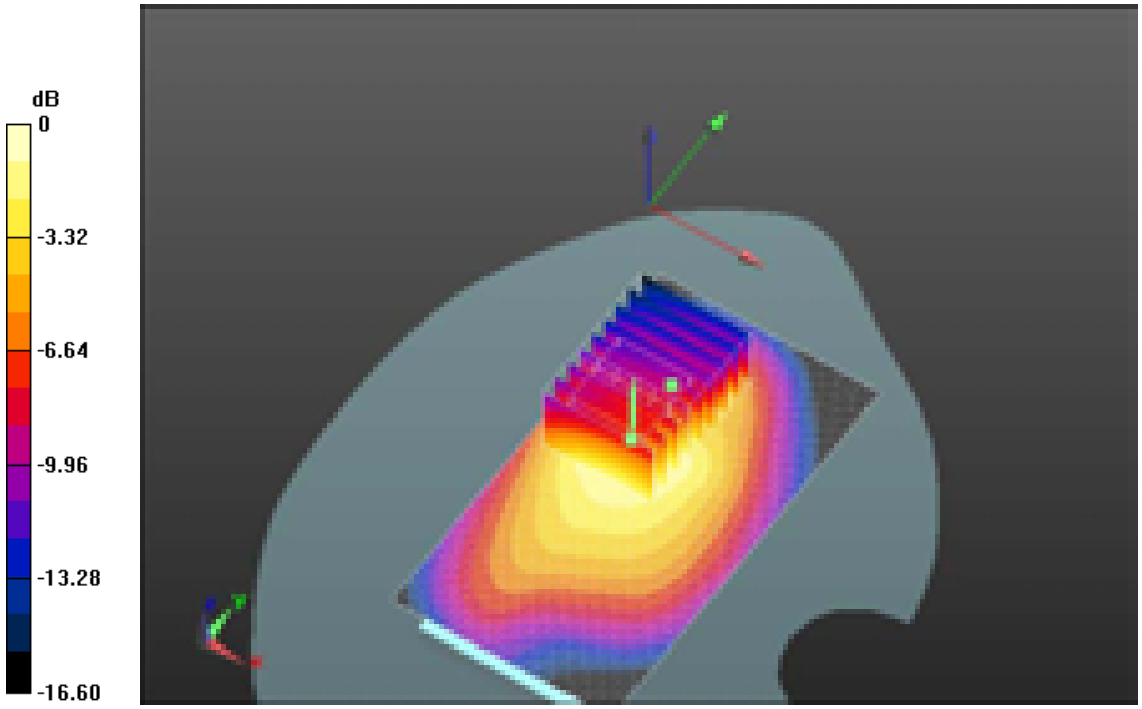

0 dB = 1.000mW/g = 0 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_17_high_chan_QPSK_RB_1_Offset_49_amb_temp_24.1_liq_temp_22.7C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A8C7018

Communication System: LTE 700_Band 17; Frequency: 716 MHz
Medium parameters used (interpolated): f = 716 MHz; σ = 0.921 mho/m; ε_r = 54.589; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.27, 6.27, 6.27); 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) = 0.566 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 17.592 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.7340
SAR(1 g) = 0.483 mW/g; SAR(10 g) = 0.321 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.564 mW/g

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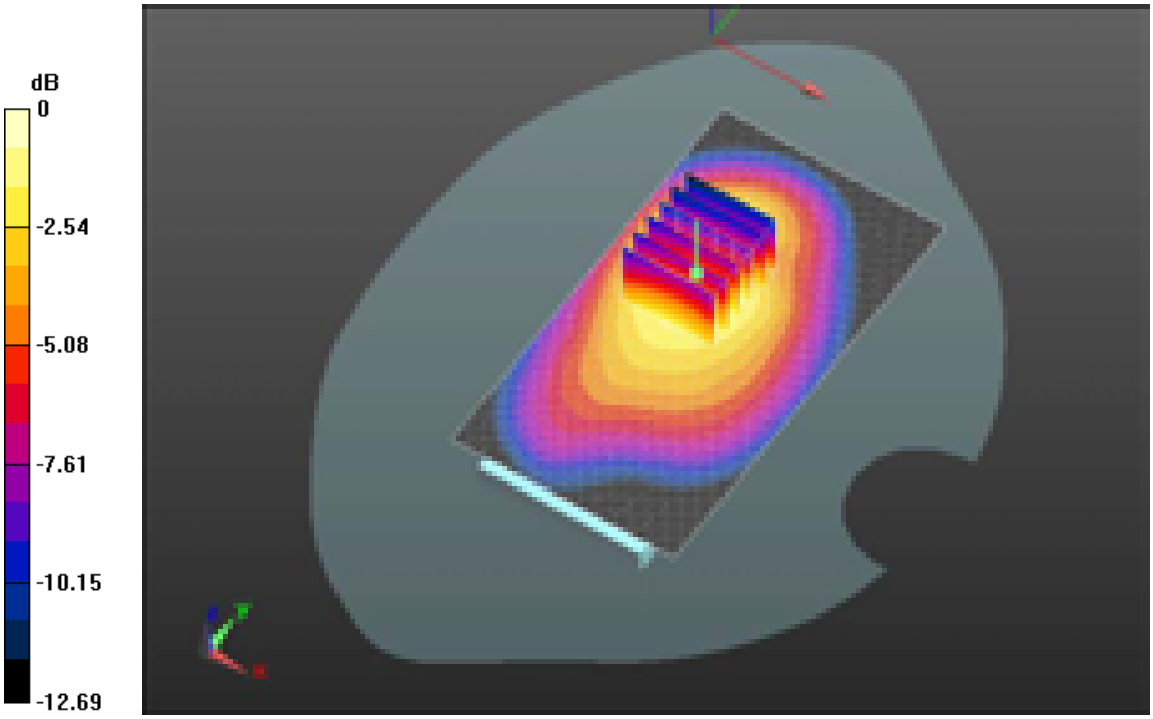

0 dB = 0.560mW/g = -5.04 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_5_mid_chan_QPSK_RB_25_Offset_0_amb_temp_22.6_liq_temp_21.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A20270D

Communication System: LTE; Frequency: 836.5 MHz
Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.979 mho/m; ε_r = 52.752; 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) = 0.773 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 24.748 V/m; Power Drift = -0.0087 dB
Peak SAR (extrapolated) = 0.9310
SAR(1 g) = 0.679 mW/g; SAR(10 g) = 0.497 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.765 mW/g

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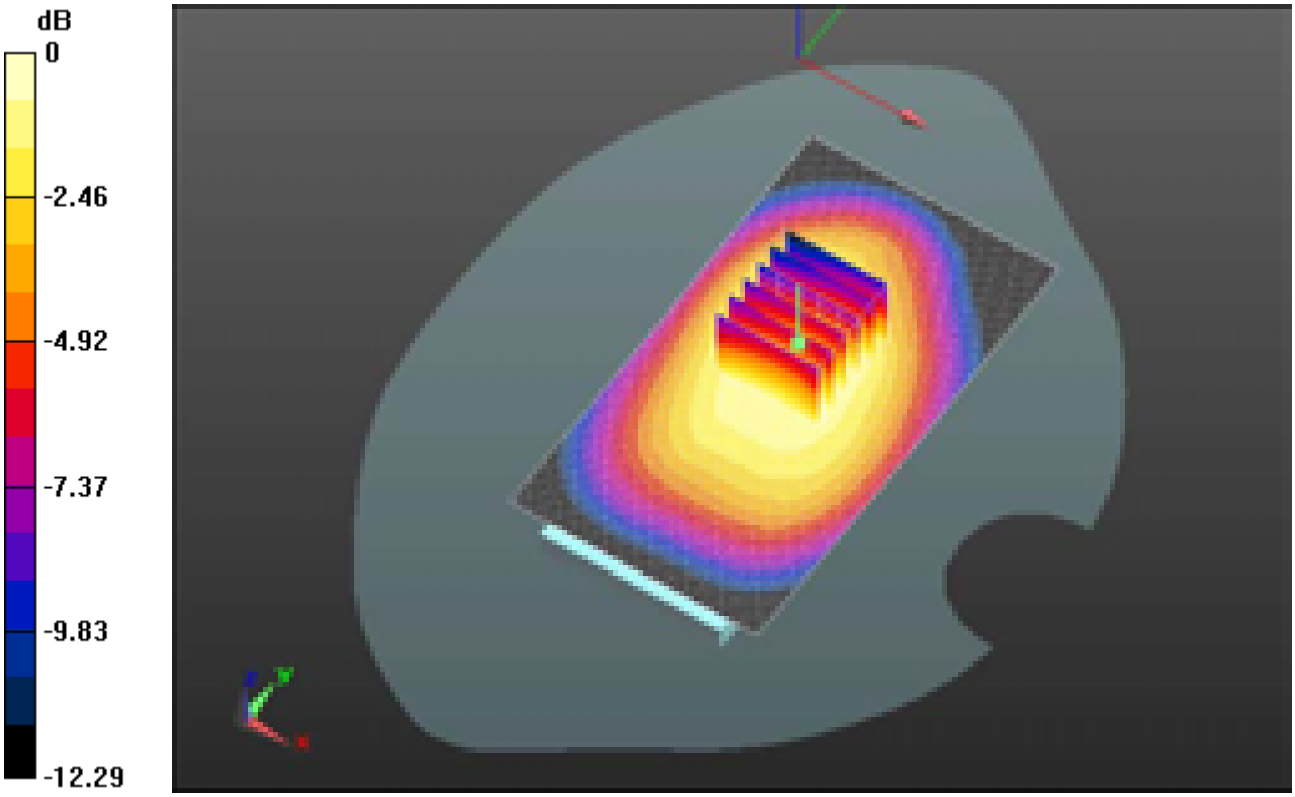

0 dB = 0.770mW/g = -2.27 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_5_mid_chan_QPSK_RB_1_Offset_0_amb_temp_22.2_liq_temp_21.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A20270D

Communication System: LTE; Frequency: 836.5 MHz
Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.979 mho/m; ε_r = 52.752; 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) = 0.883 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 26.724 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 1.0220
SAR(1 g) = 0.766 mW/g; SAR(10 g) = 0.565 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.852 mW/g

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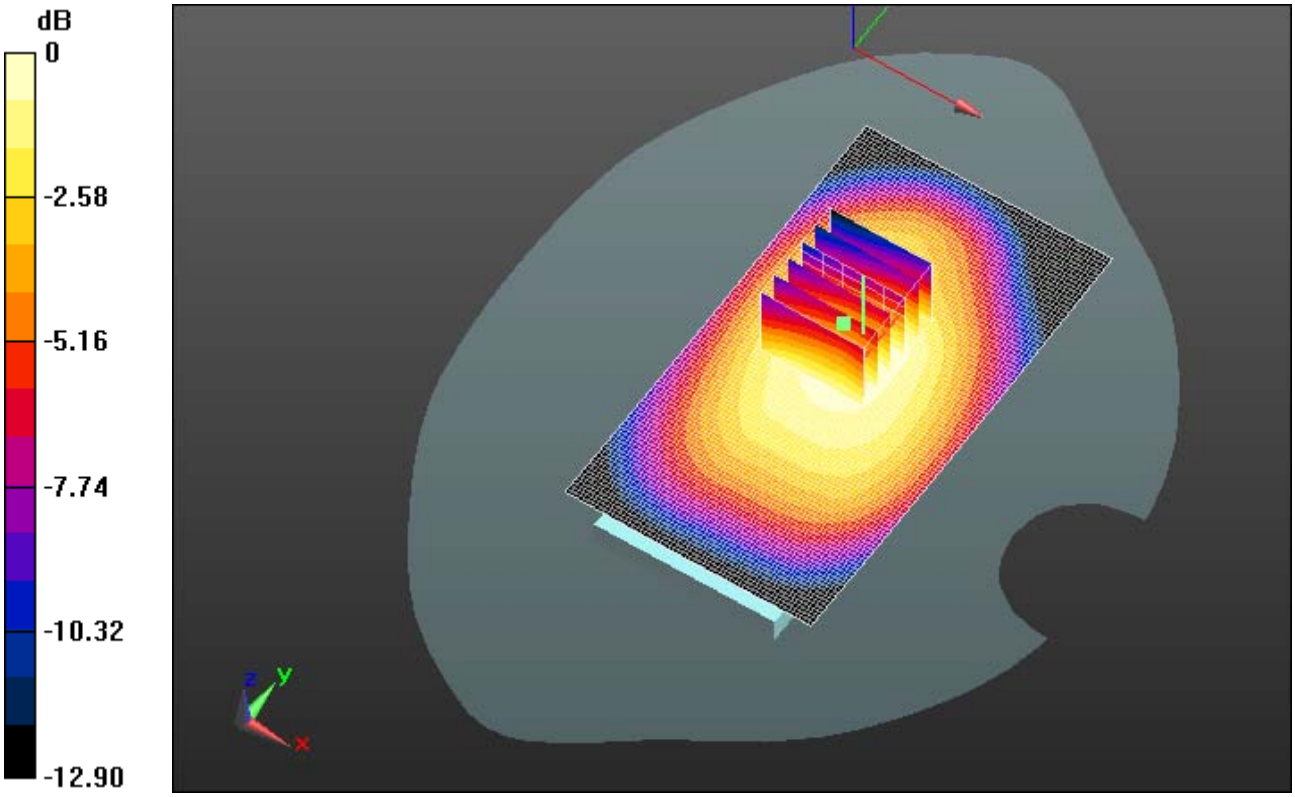

0 dB = 0.850mW/g = -1.41 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_5_mid_chan_QPSK_RB_1_Offset_49_amb_temp_22.7_liq_temp_21.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A20270D

Communication System: LTE; Frequency: 836.5 MHz
Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.979 mho/m; ε_r = 52.752; 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) = 0.893 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 26.483 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 1.0710
SAR(1 g) = 0.774 mW/g; SAR(10 g) = 0.568 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.855 mW/g

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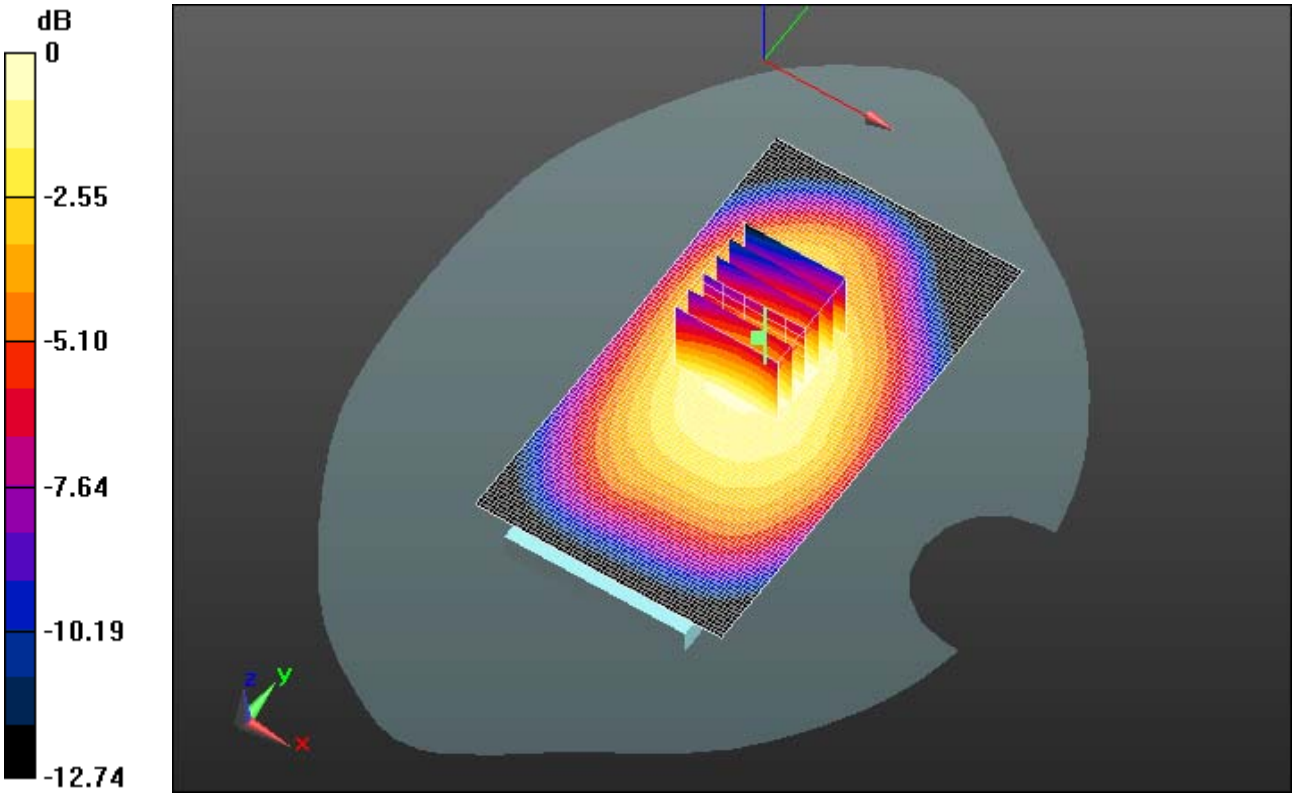

0 dB = 0.850mW/g = -1.41 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_5_mid_chan_16QAM_RB_30_Offset_0_amb_temp_22.4_liq_temp_21.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A20270D

Communication System: LTE; Frequency: 836.5 MHz
Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.979 mho/m; ε_r = 52.752; 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) = 0.628 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 22.789 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.7770
SAR(1 g) = 0.554 mW/g; SAR(10 g) = 0.405 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.621 mW/g

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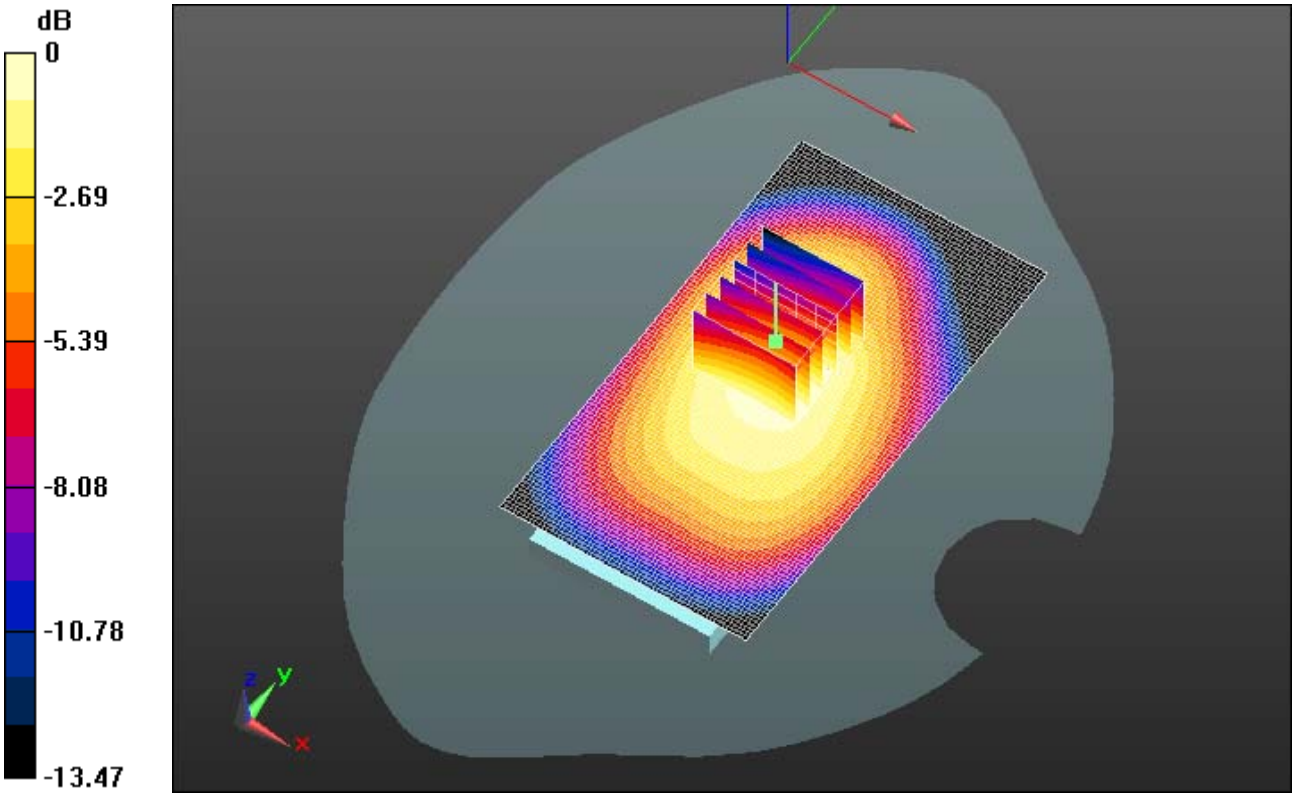

0 dB = 0.620mW/g = -4.15 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_5_mid_chan_16QAM_RB_1_Offset_0_amb_temp_22.5_liq_temp_21.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A20270D

Communication System: LTE; Frequency: 836.5 MHz
Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.979 mho/m; ε_r = 52.752; 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) = 0.693 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 23.744 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.8240
SAR(1 g) = 0.591 mW/g; SAR(10 g) = 0.443 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.659 mW/g

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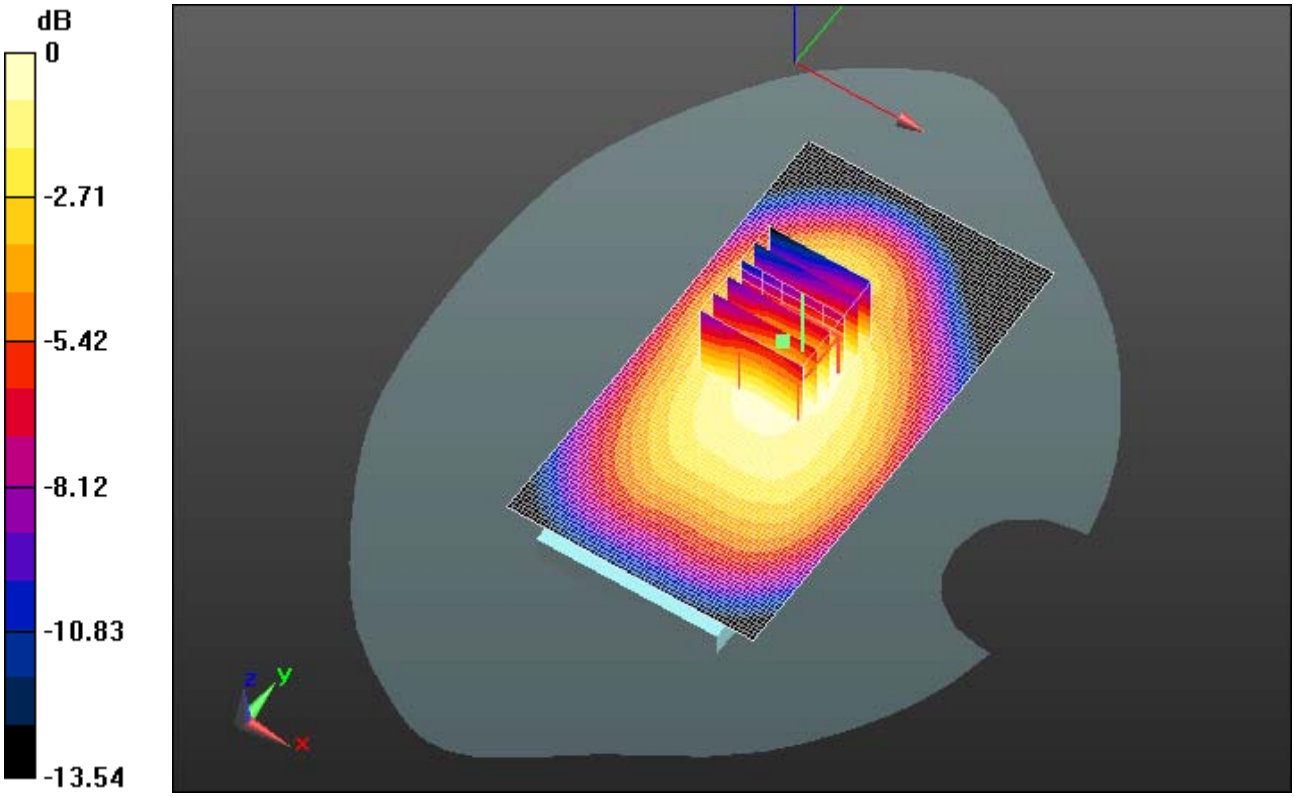

0 dB = 0.660mW/g = -3.61 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_5_mid_chan_16QAM_RB_1_Offset_49_amb_temp_22.9_liq_temp_21.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A20270D

Communication System: LTE; Frequency: 836.5 MHz
Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.979 mho/m; ε_r = 52.752; 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) = 0.685 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 23.973 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.9400
SAR(1 g) = 0.614 mW/g; SAR(10 g) = 0.440 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.711 mW/g

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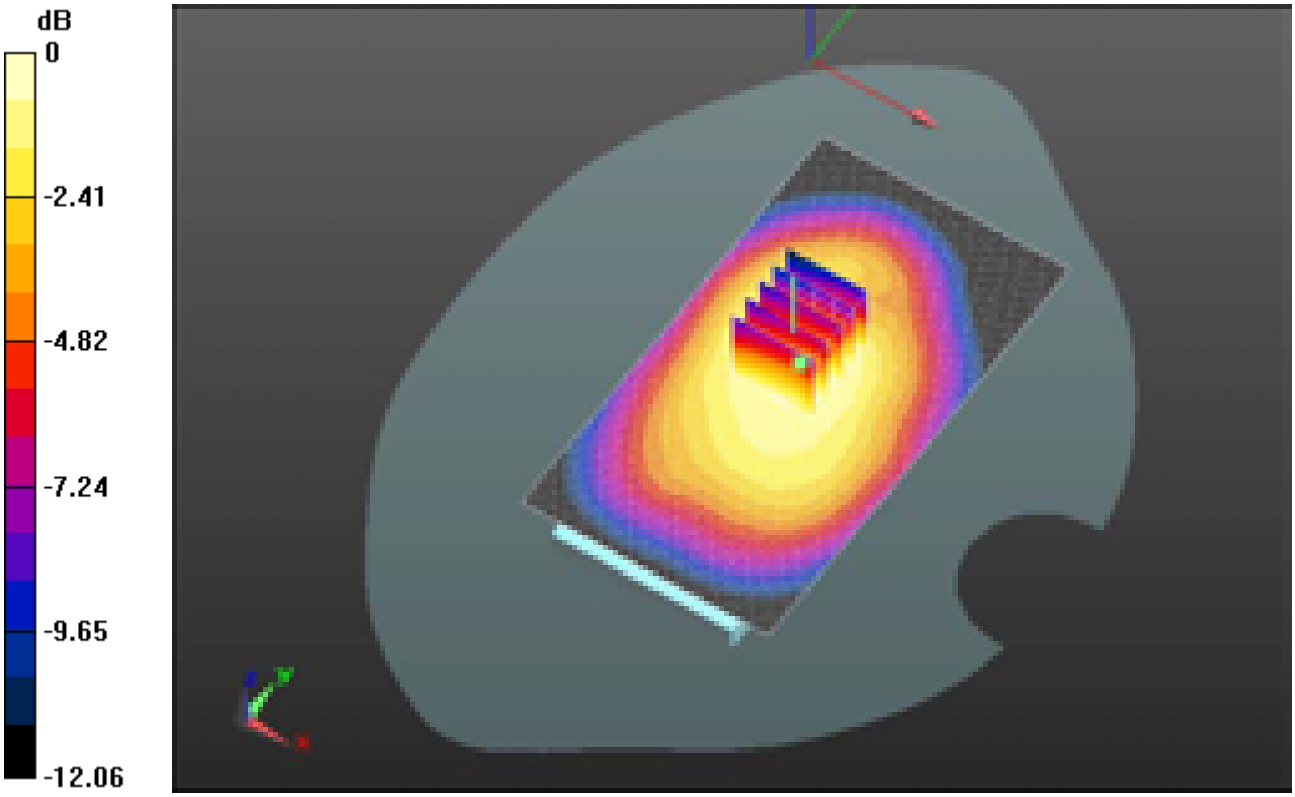

0 dB = 0.710mW/g = -2.97 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Front_LTE_5_mid_chan_QPSK_RB_1_Offset_49_amb_temp_22.9_liq_temp_21.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A20270D

Communication System: LTE; Frequency: 836.5 MHz
Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.979 mho/m; ε_r = 52.752; 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) = 0.892 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 26.353 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 1.0810
SAR(1 g) = 0.783 mW/g; SAR(10 g) = 0.573 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.882 mW/g

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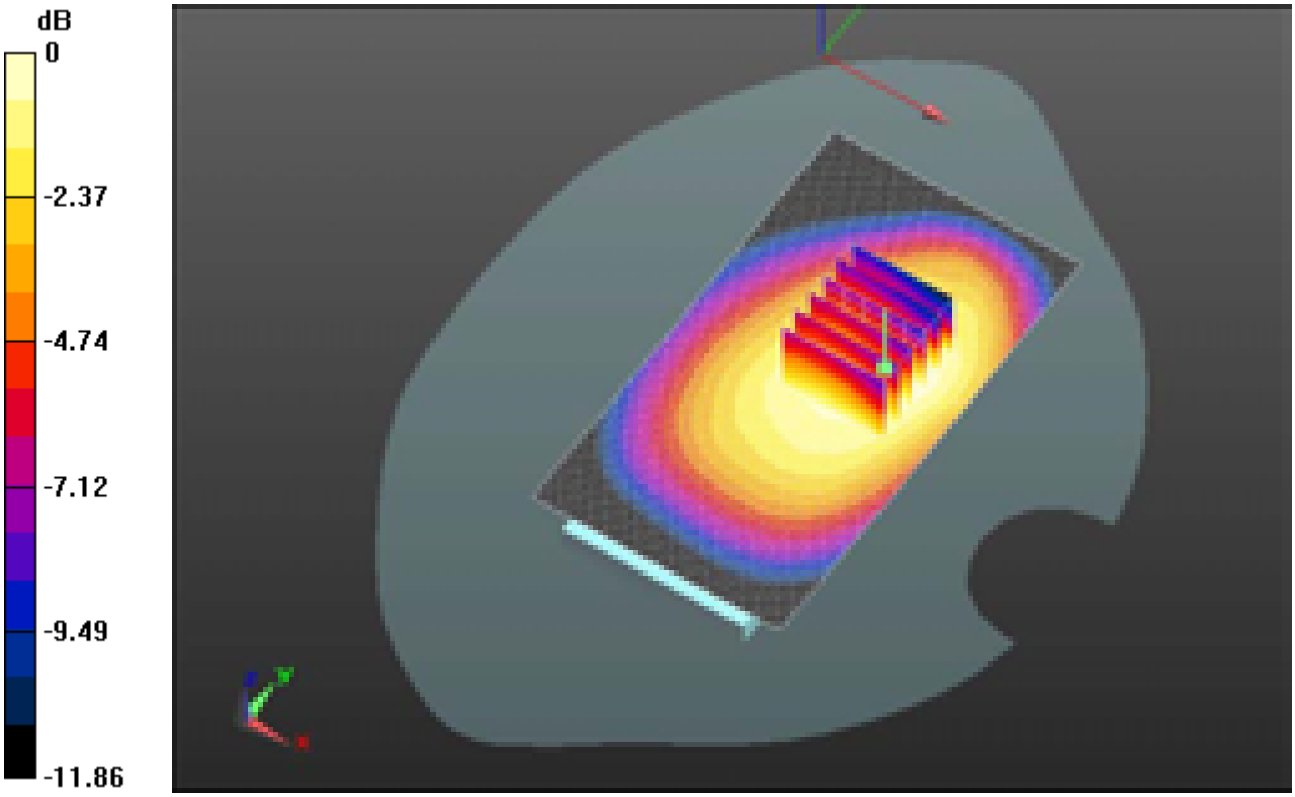

0 dB = 0.880mW/g = -1.11 dB mW/g

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Date/Time: 6/8/2012 4:09:01 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Left_LTE_5_mid_chan_QPSK_RB_1_Offset_49_amb_temp_23.2_liq_temp_21.3C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A20270D

Communication System: LTE; Frequency: 836.5 MHz
Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.979 mho/m; ε_r = 52.752; 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) = 0.654 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 27.198 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 0.8090
SAR(1 g) = 0.576 mW/g; SAR(10 g) = 0.393 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.660 mW/g

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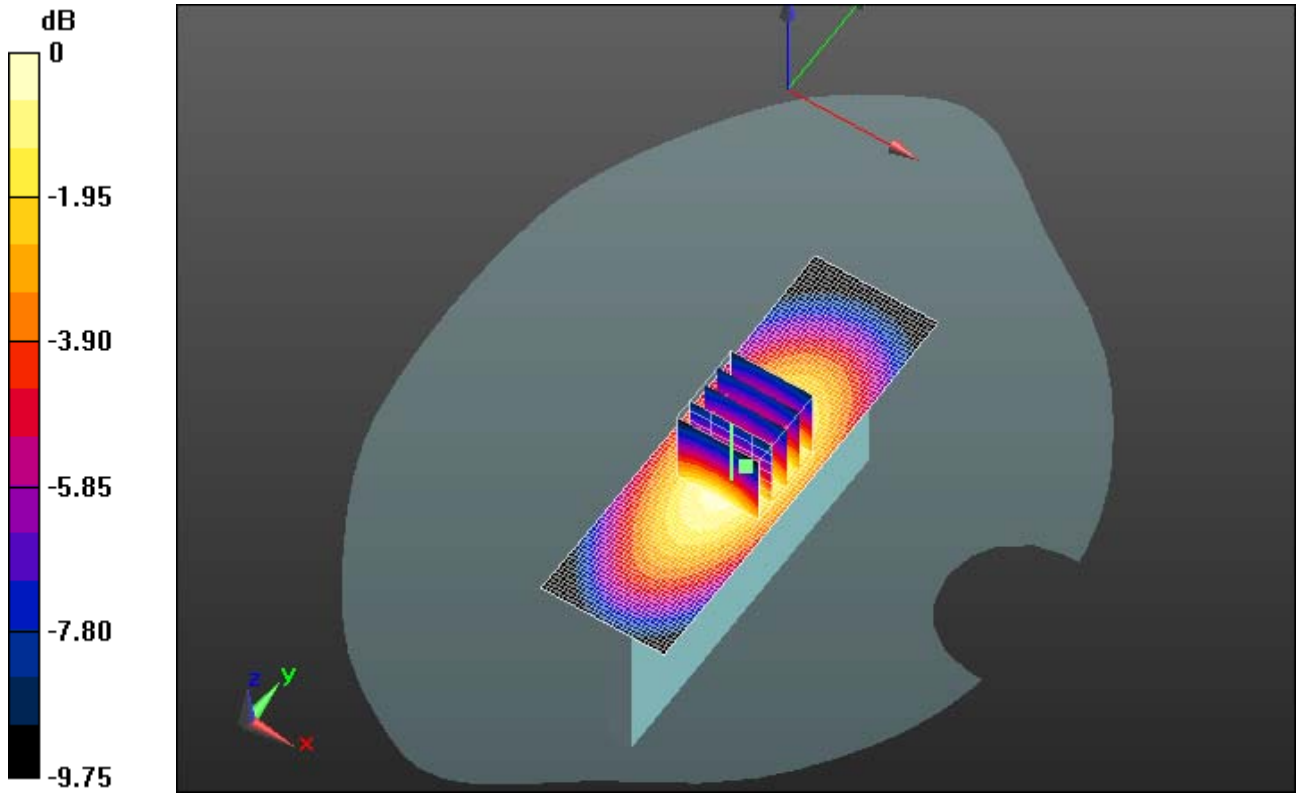

0 dB = 0.660mW/g = -3.61 dB mW/g

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Date/Time: 6/8/2012 4:23:18 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Right_LTE_5_mid_chan_QPSK_RB_1_Offset_49_amb_temp_23.4_liq_temp_21.3C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A20270D

Communication System: LTE; Frequency: 836.5 MHz
Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.979 mho/m; ε_r = 52.752; 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) = 0.890 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 31.032 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.1110
SAR(1 g) = 0.784 mW/g; SAR(10 g) = 0.536 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.900 mW/g

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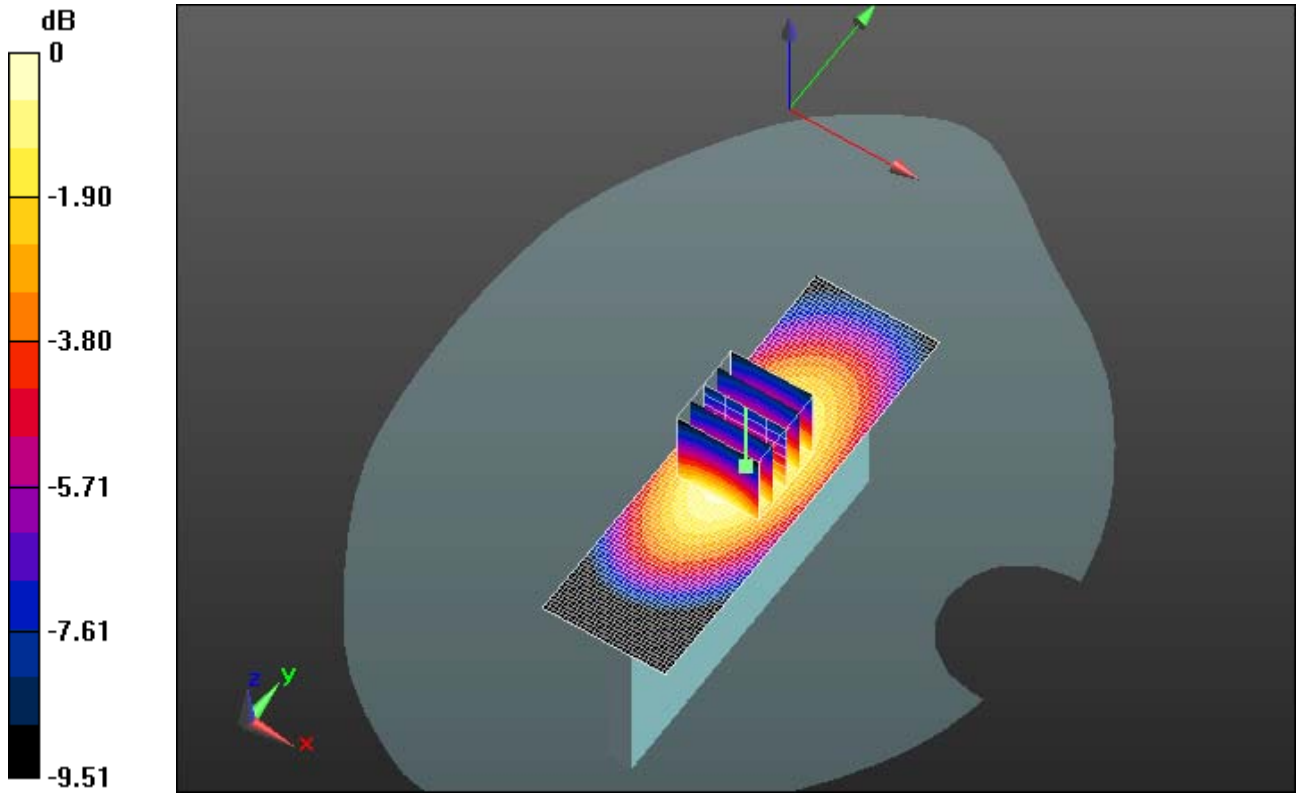

0 dB = 0.900mW/g = -0.92 dB mW/g

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Date/Time: 6/8/2012 4:57:21 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Bottom_LTE_5_mid_chan_QPSK_RB_1_Offset_49_amb_temp_23.2_liq_temp_21.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A20270D

Communication System: LTE; Frequency: 836.5 MHz
Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.979 mho/m; ε_r = 52.752; 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) = 0.225 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 15.050 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.3680
SAR(1 g) = 0.199 mW/g; SAR(10 g) = 0.105 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.247 mW/g

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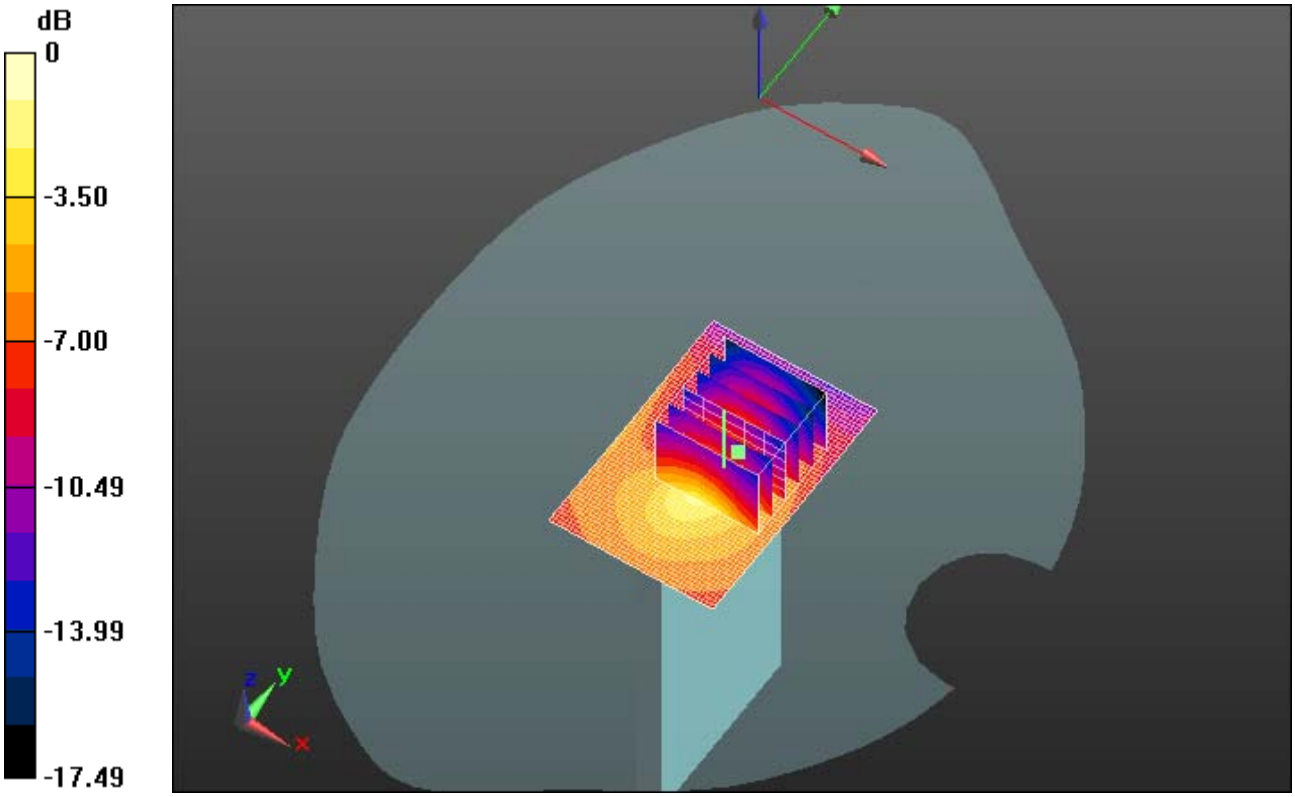

0 dB = 0.250mW/g = -12.04 dB mW/g

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Date/Time: 6/8/2012 12:46:21 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Front_Headset_LTE_5_mid_chan_QPSK_RB_1_Offset_49_amb_temp_22.9_liq_temp_21.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A20270D

Communication System: LTE; Frequency: 836.5 MHz
Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.979 mho/m; ε_r = 52.752; 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) = 0.826 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 24.580 V/m; Power Drift = -0.18 dB
Peak SAR (extrapolated) = 1.0130
SAR(1 g) = 0.714 mW/g; SAR(10 g) = 0.511 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.831 mW/g

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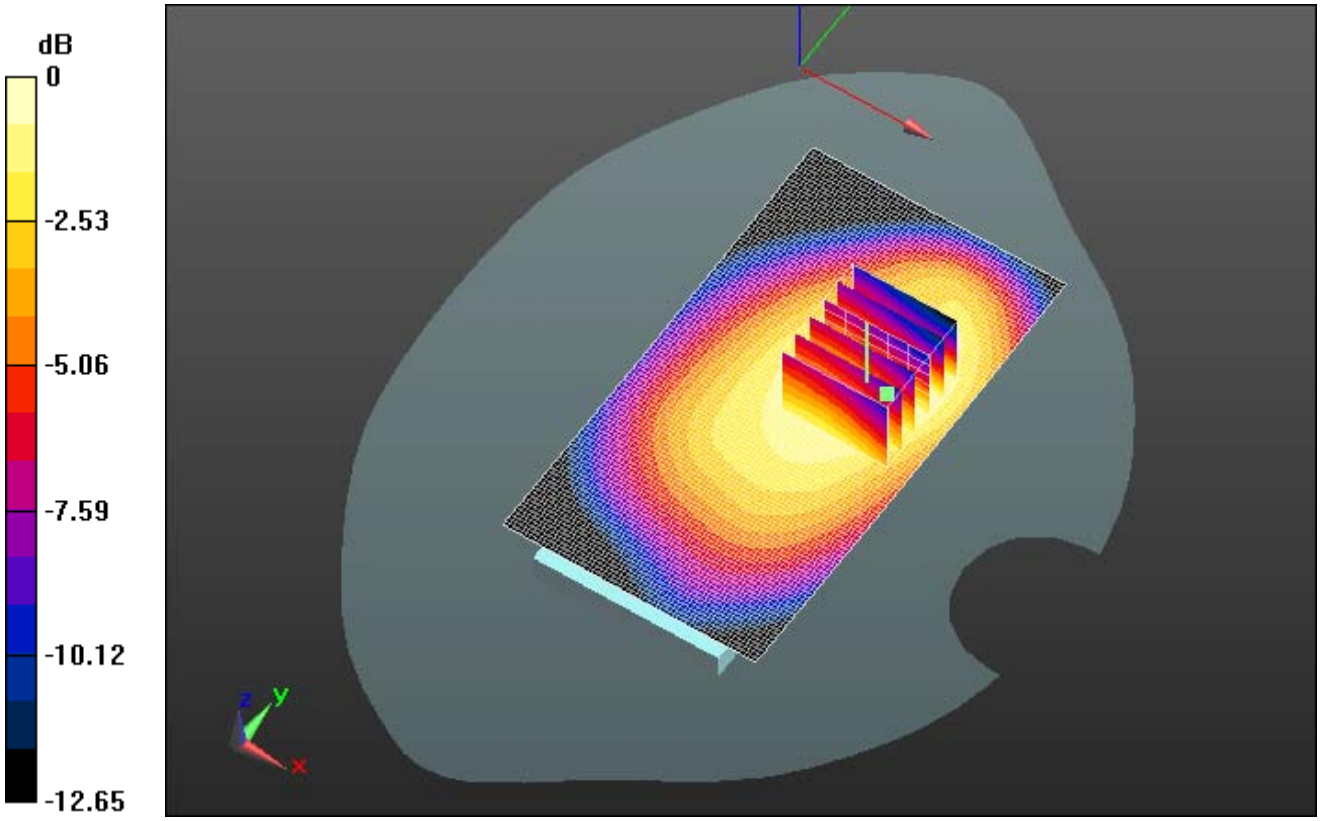

0 dB = 0.830mW/g = -1.62 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Front_LTE_5_mid_chan_QPSK_RB_1_Offset_49_amb_temp_24.4_liq_temp_22.5C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A8C7018

Communication System: LTE 5; Frequency: 836.5 MHz
Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.949 mho/m; ε_r = 52.967; 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) = 0.740 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 25.178 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 0.9270
SAR(1 g) = 0.666 mW/g; SAR(10 g) = 0.493 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.741 mW/g

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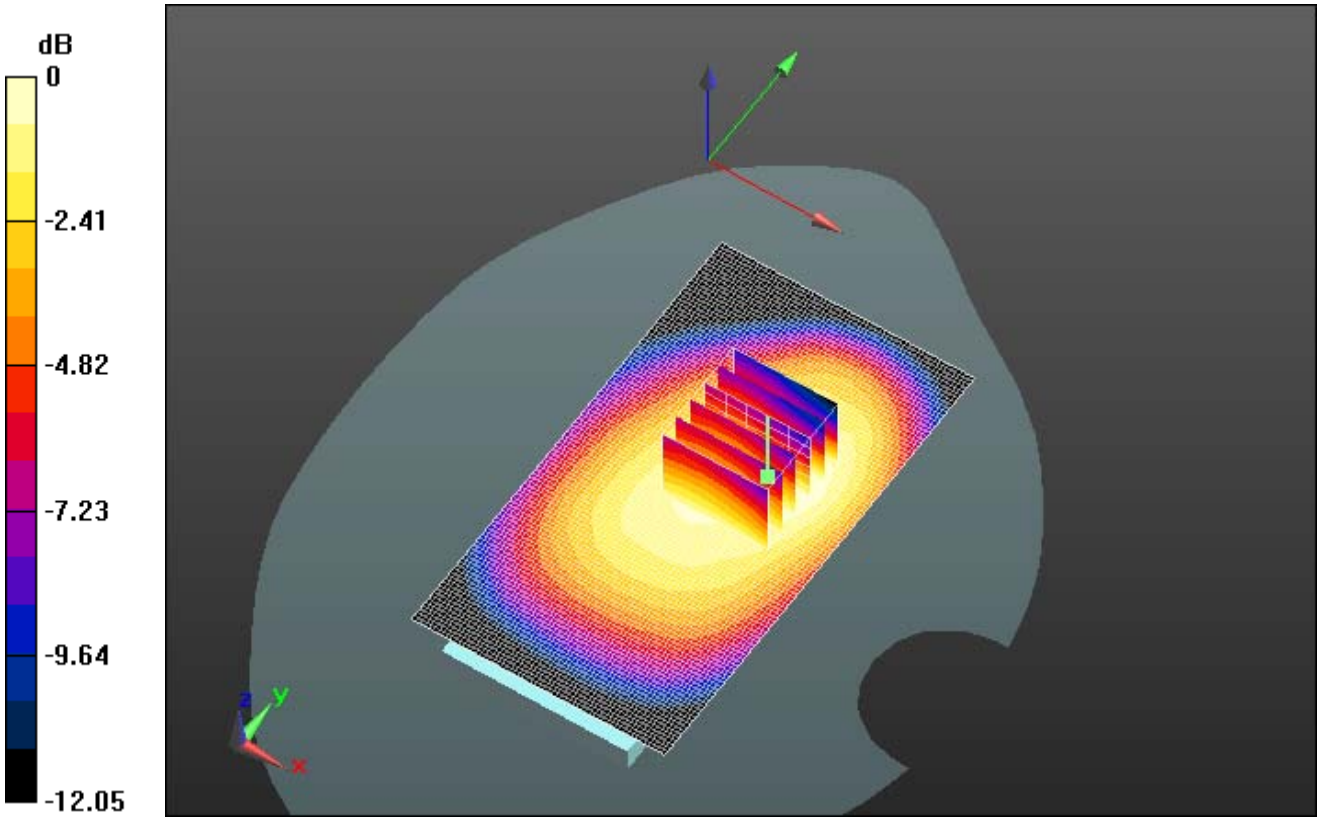

0 dB = 0.740mW/g = -2.62 dB mW/g

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Date/Time: 6/7/2012 1:57:42 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_EDGE850_mid_chan_amb_temp_22.7_liq_temp_21.1C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A20270D

Communication System: EDGE 850 (2slots); Frequency: 836.8 MHz
Medium parameters used (interpolated): f = 836.8 MHz; σ = 0.979 mho/m; ε_r = 52.747; 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) = 0.844 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 26.152 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 1.0280
SAR(1 g) = 0.729 mW/g; SAR(10 g) = 0.527 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.825 mW/g

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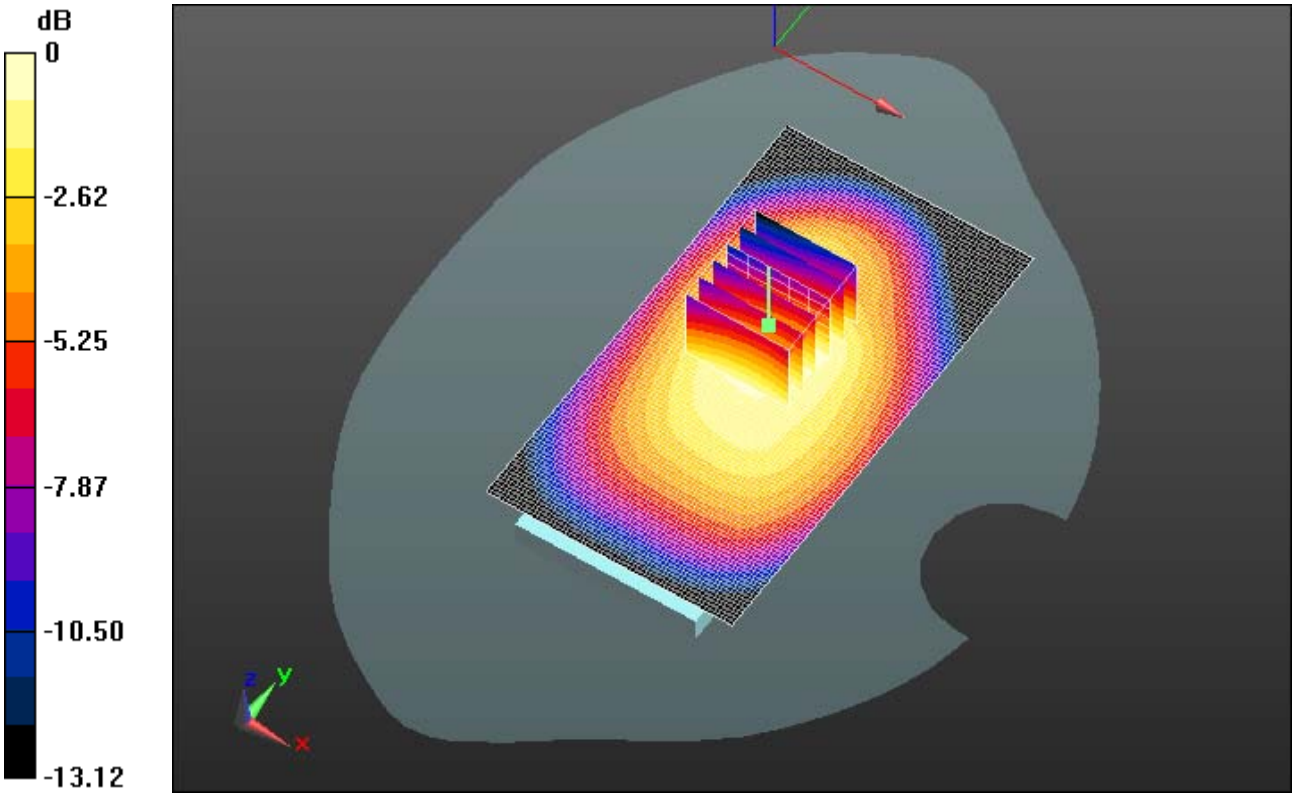

0 dB = 0.830mW/g = -1.62 dB mW/g

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Date/Time: 6/7/2012 2:30:25 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Front_GPRS850_mid_chan_amb_temp_23.0_liq_temp_21.5C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A20270D

Communication System: GPRS 850; Frequency: 836.8 MHz
Medium parameters used (interpolated): f = 836.8 MHz; σ = 0.979 mho/m; ε_r = 52.747; 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) = 0.880 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 26.240 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 1.0370
SAR(1 g) = 0.756 mW/g; SAR(10 g) = 0.555 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.847 mW/g

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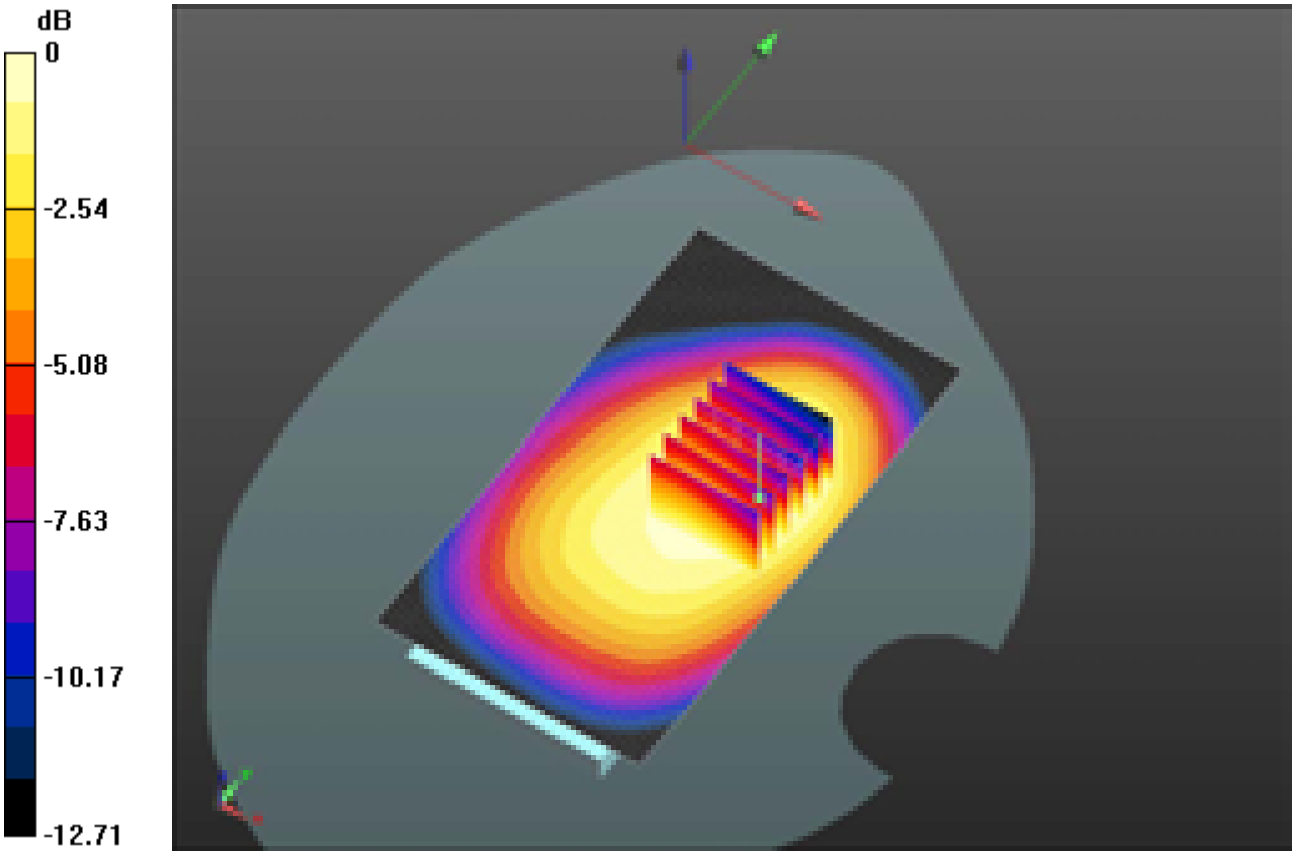

0 dB = 0.850mW/g = -1.41 dB mW/g

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Date/Time: 6/7/2012 4:21:16 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Left_GPRS850_mid_chan_amb_temp_23.0C_liq_temp_21.5C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A20270D

Communication System: GPRS 850; Frequency: 836.8 MHz
Medium parameters used (interpolated): f = 836.8 MHz; σ = 0.979 mho/m; ε_r = 52.747; 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) = 0.519 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 23.844 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.6390
SAR(1 g) = 0.458 mW/g; SAR(10 g) = 0.316 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.522 mW/g

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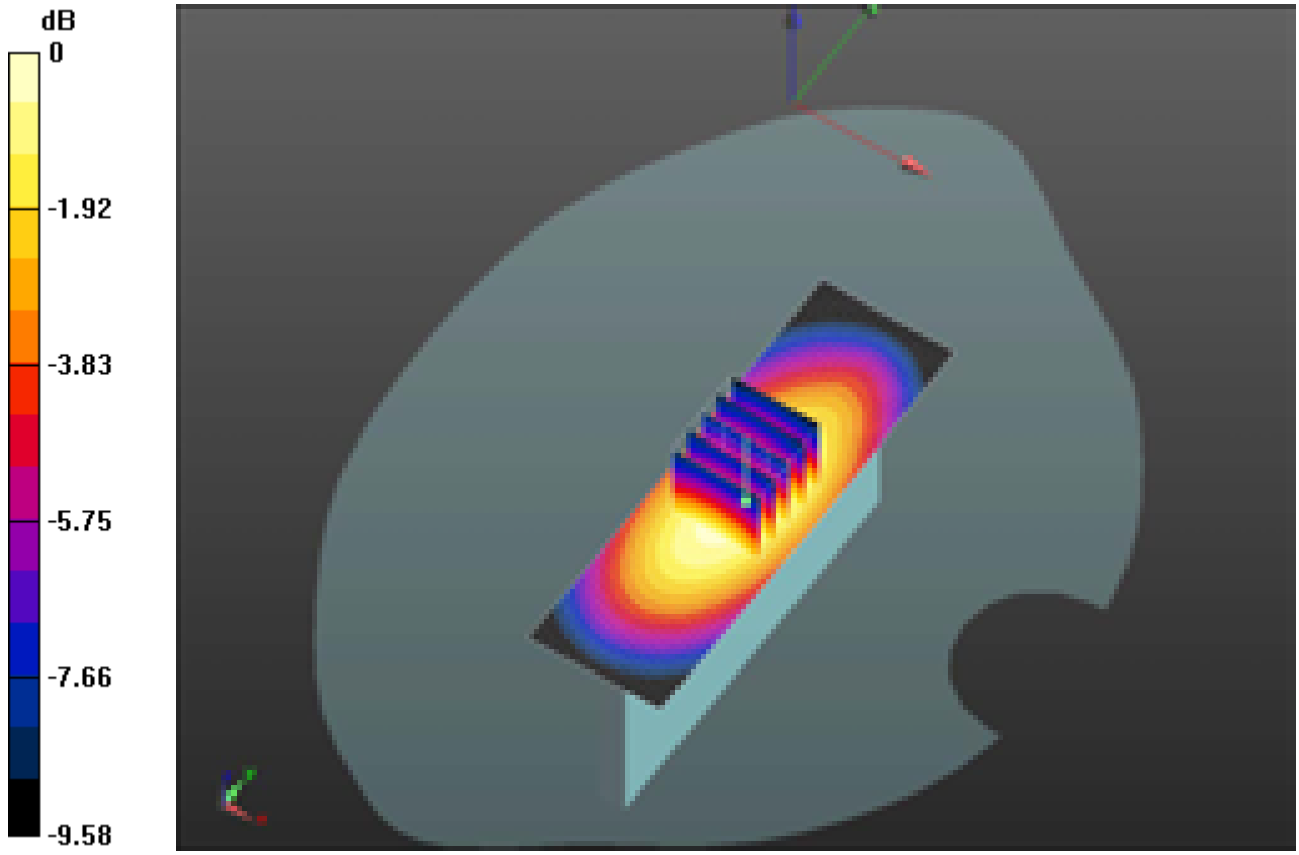

0 dB = 0.520mW/g = -5.68 dB mW/g

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Date/Time: 6/7/2012 4:06:33 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Right_GPRS850_mid_chan_amb_temp_23.0C_liq_temp_21.6C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A20270D

Communication System: GPRS 850; Frequency: 836.8 MHz
Medium parameters used (interpolated): f = 836.8 MHz; σ = 0.979 mho/m; ε_r = 52.747; 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) = 0.773 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 28.461 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.9590
SAR(1 g) = 0.683 mW/g; SAR(10 g) = 0.468 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.786 mW/g

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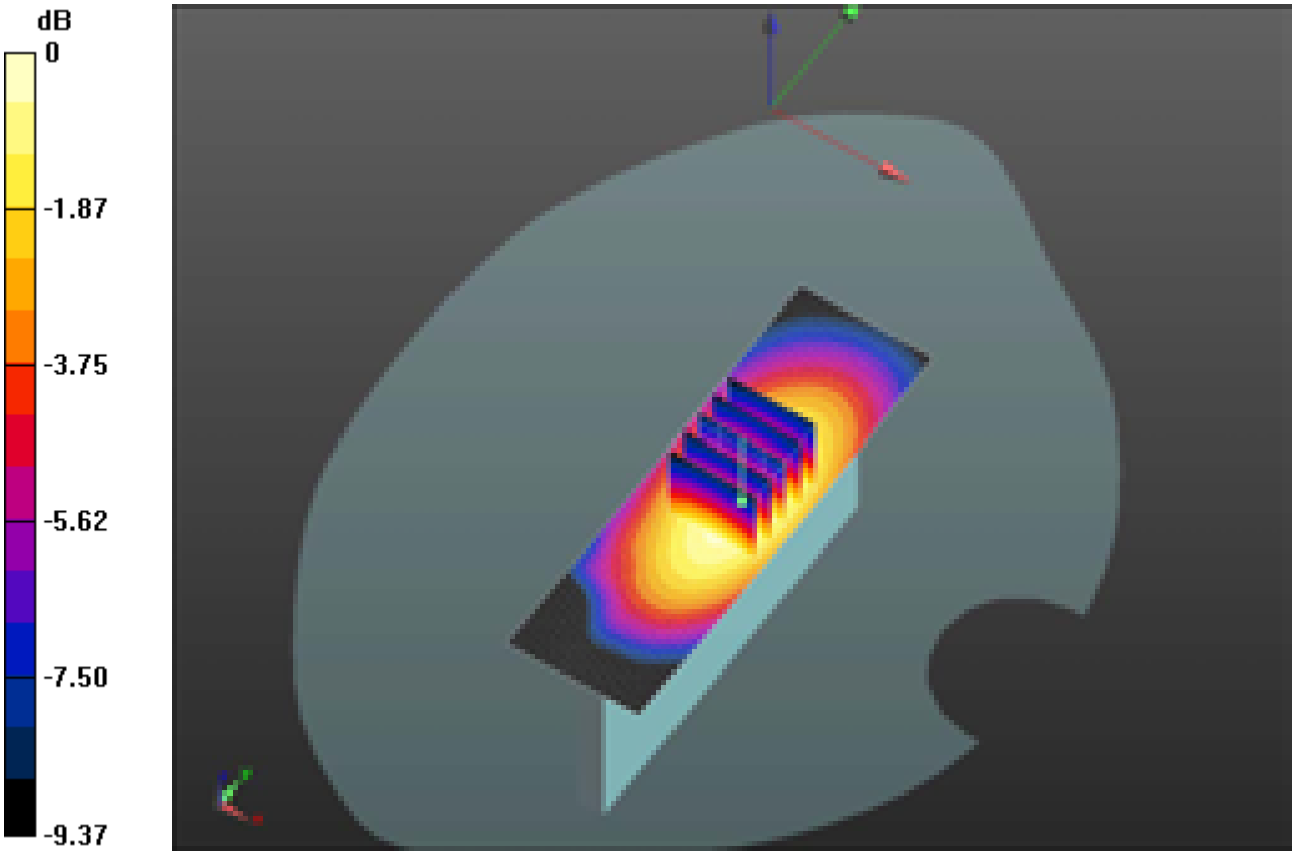

0 dB = 0.790mW/g = -2.05 dB mW/g

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Date/Time: 6/7/2012 4:39:01 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Bottom_GPRS850_mid_chan_amb_temp_23.0_liq_temp_21.4C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A20270D

Communication System: GPRS 850; Frequency: 836.8 MHz
Medium parameters used (interpolated): f = 836.8 MHz; σ = 0.979 mho/m; ε_r = 52.747; 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) = 0.281 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 16.907 V/m; Power Drift = -0.40 dB
Peak SAR (extrapolated) = 0.4020
SAR(1 g) = 0.213 mW/g; SAR(10 g) = 0.112 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.274 mW/g

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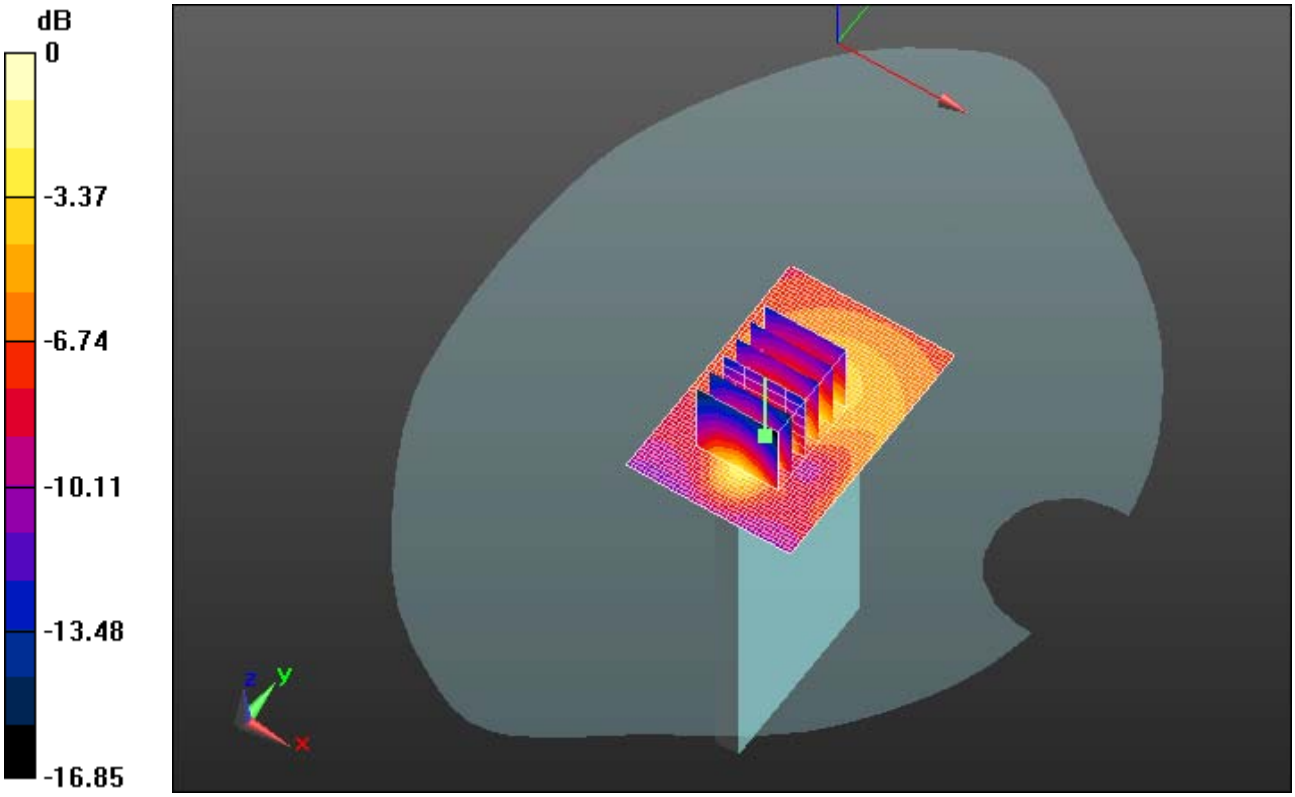

0 dB = 0.270mW/g = -11.37 dB mW/g

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Date/Time: 6/7/2012 5:02:26 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Front_Headset_GPRS850_mid_chan_amb_temp_23.1_liq_temp_21.5C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A20270D

Communication System: GPRS 850; Frequency: 836.8 MHz
Medium parameters used (interpolated): f = 836.8 MHz; σ = 0.979 mho/m; ε_r = 52.747; 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) = 0.787 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 23.323 V/m; Power Drift = 1.4e-005 dB
Peak SAR (extrapolated) = 0.9150
SAR(1 g) = 0.656 mW/g; SAR(10 g) = 0.469 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.737 mW/g

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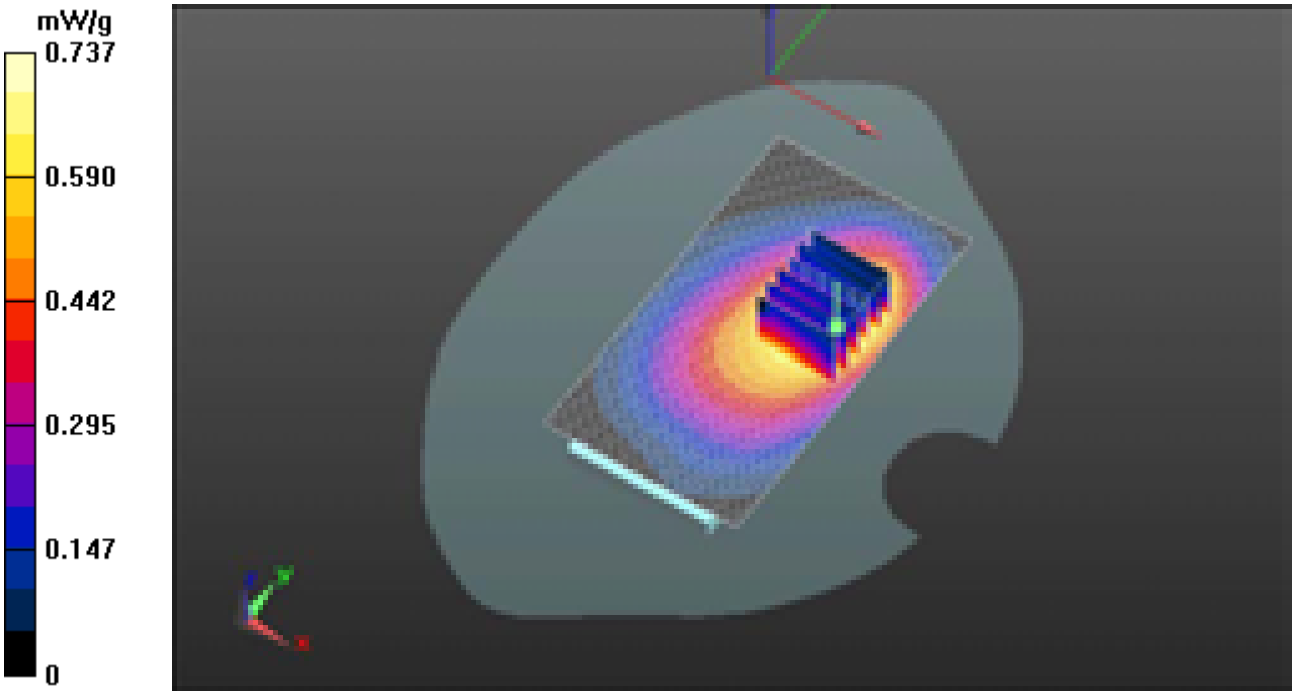

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Date/Time: 6/7/2012 12:49:26 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_EDGE850_3-slots_mid_chan_amb_temp_23.3_liq_temp_21.1C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A20270D

Communication System: EDGE 850 (3 slots); Frequency: 836.8 MHz
Medium parameters used (interpolated): f = 836.8 MHz; σ = 0.979 mho/m; ε_r = 52.747; 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) = 0.820 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 25.628 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 0.9840
SAR(1 g) = 0.712 mW/g; SAR(10 g) = 0.517 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.789 mW/g

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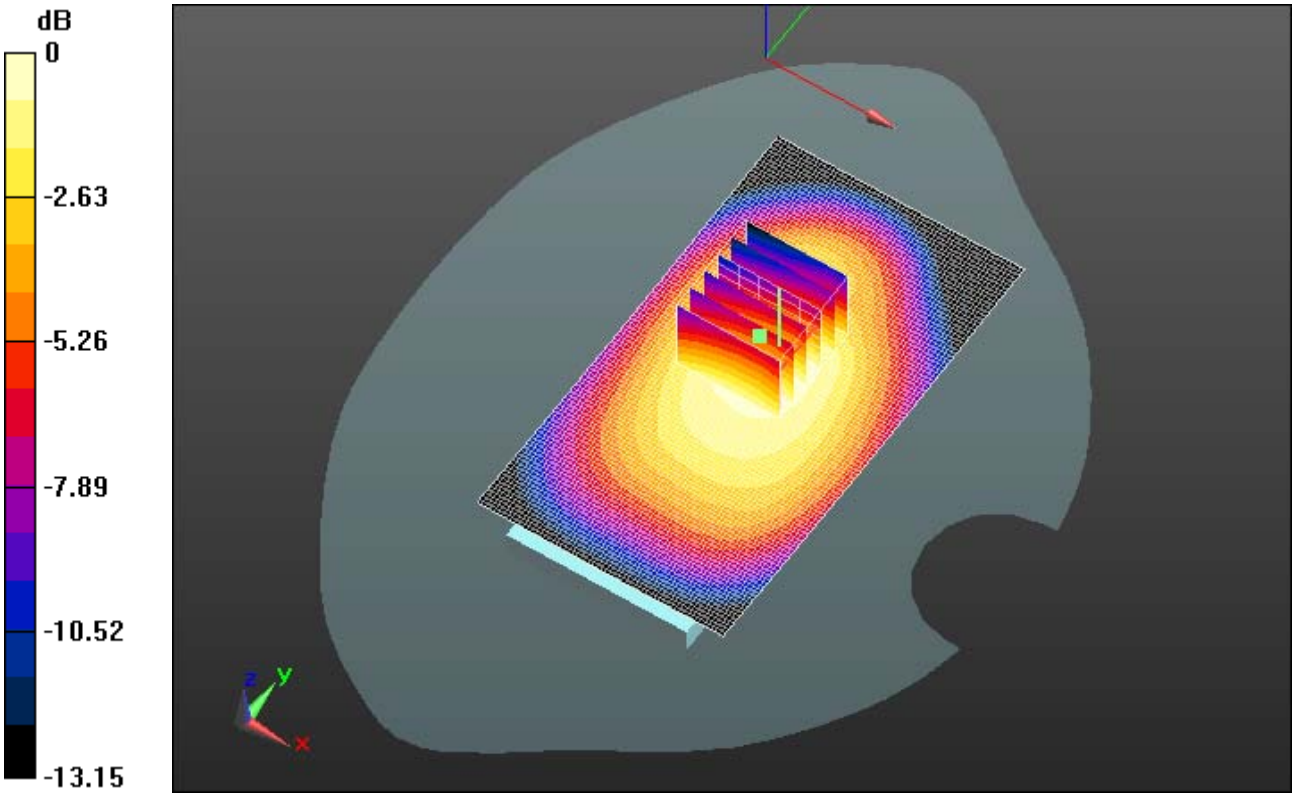

0 dB = 0.790mW/g = -2.05 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_EDGE850_4-slots_mid_chan_amb_temp_23.3_liq_temp_21.1C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A20270D

Communication System: EDGE 850 (4 slots); Frequency: 836.8 MHz
Medium parameters used (interpolated): f = 836.8 MHz; σ = 0.979 mho/m; ε_r = 52.747; 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) = 0.663 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 24.054 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.8330
SAR(1 g) = 0.587 mW/g; SAR(10 g) = 0.430 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.660 mW/g

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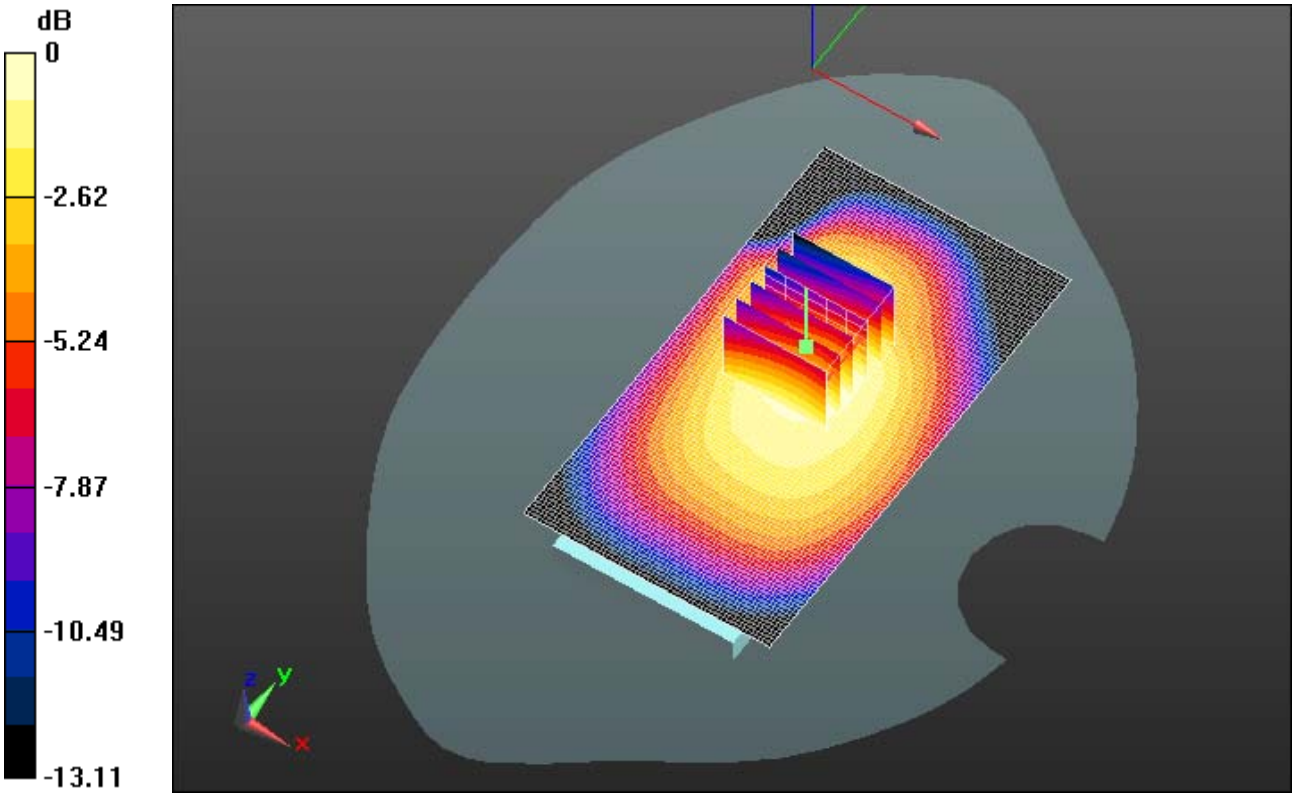

0 dB = 0.660mW/g = -3.61 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Front_GPRS850_mid_chan_amb_temp_23.9_liq_temp_22.4C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A8C7018

Communication System: GPRS 850; Frequency: 836.8 MHz
Medium parameters used (interpolated): f = 836.8 MHz; σ = 0.976 mho/m; ε_r = 54.207; 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) = 0.980 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 28.268 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 1.2620
SAR(1 g) = 0.848 mW/g; SAR(10 g) = 0.607 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.960 mW/g

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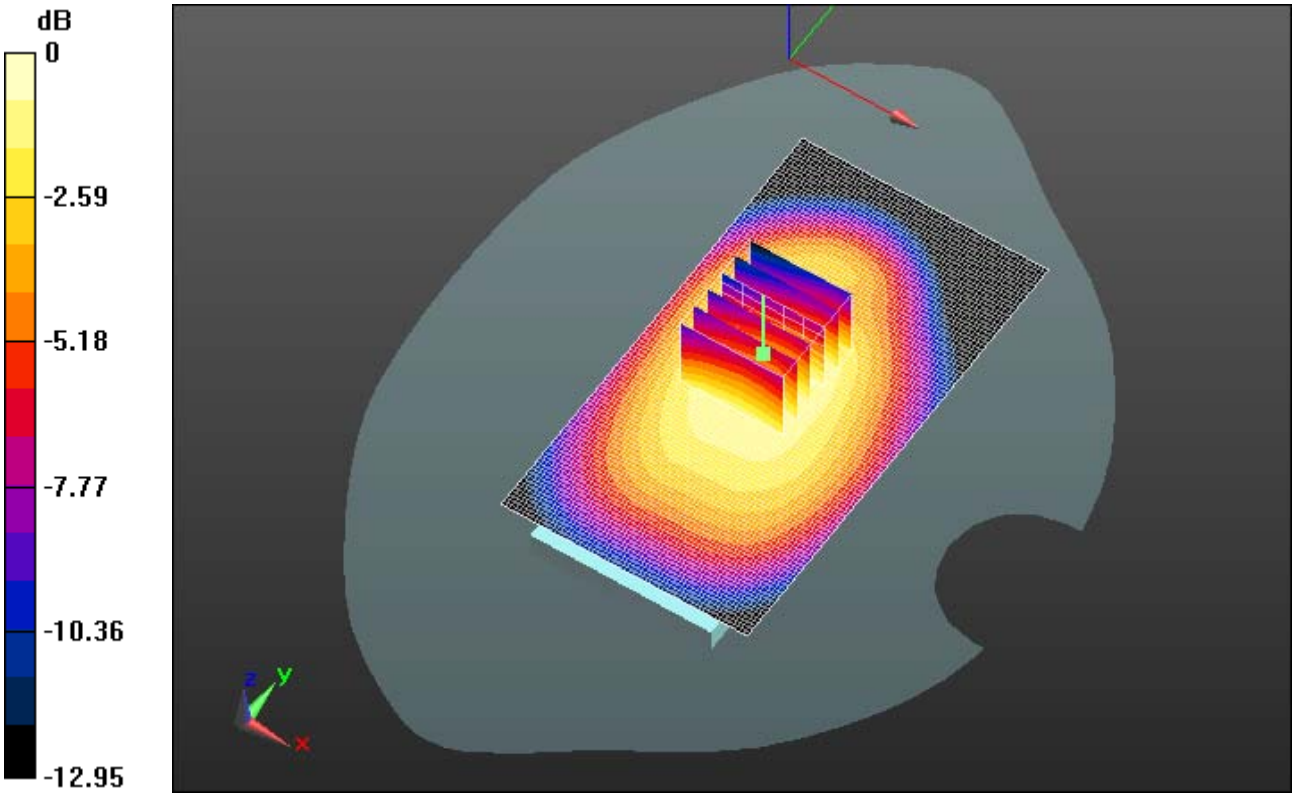

0 dB = 0.960mW/g = -0.35 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_UMTS_Band_V_low_chan_amb_temp_23.1 _liq_temp_21.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A20270D

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) = 0.979 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 28.300 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 1.2210
SAR(1 g) = 0.866 mW/g; SAR(10 g) = 0.625 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.975 mW/g

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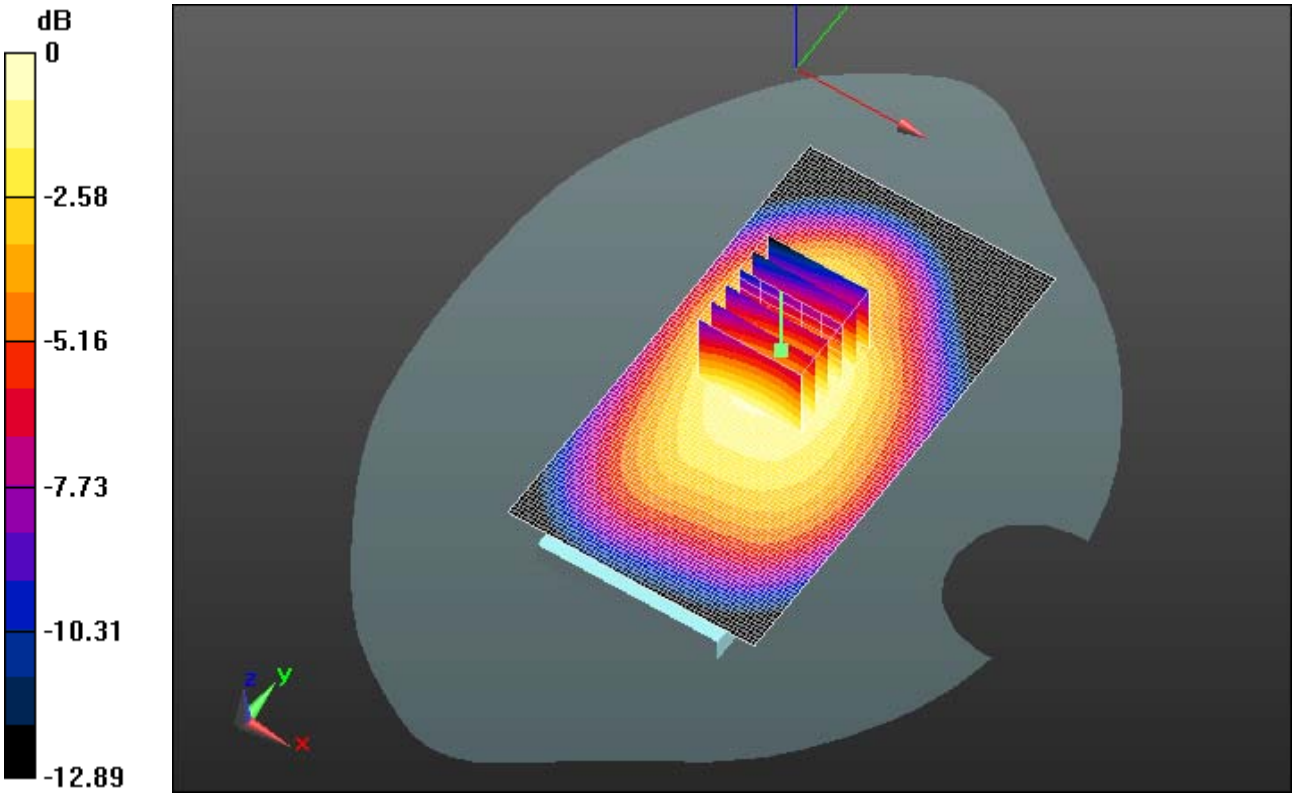

0 dB = 0.970mW/g = -0.26 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_UMTS_Band_V_mid_chan_amb_temp_23.2_liq_temp_21.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A20270D

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) = 1.026 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 29.132 V/m; Power Drift = -0.0077 dB
Peak SAR (extrapolated) = 1.2910
SAR(1 g) = 0.912 mW/g; SAR(10 g) = 0.660 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.039 mW/g

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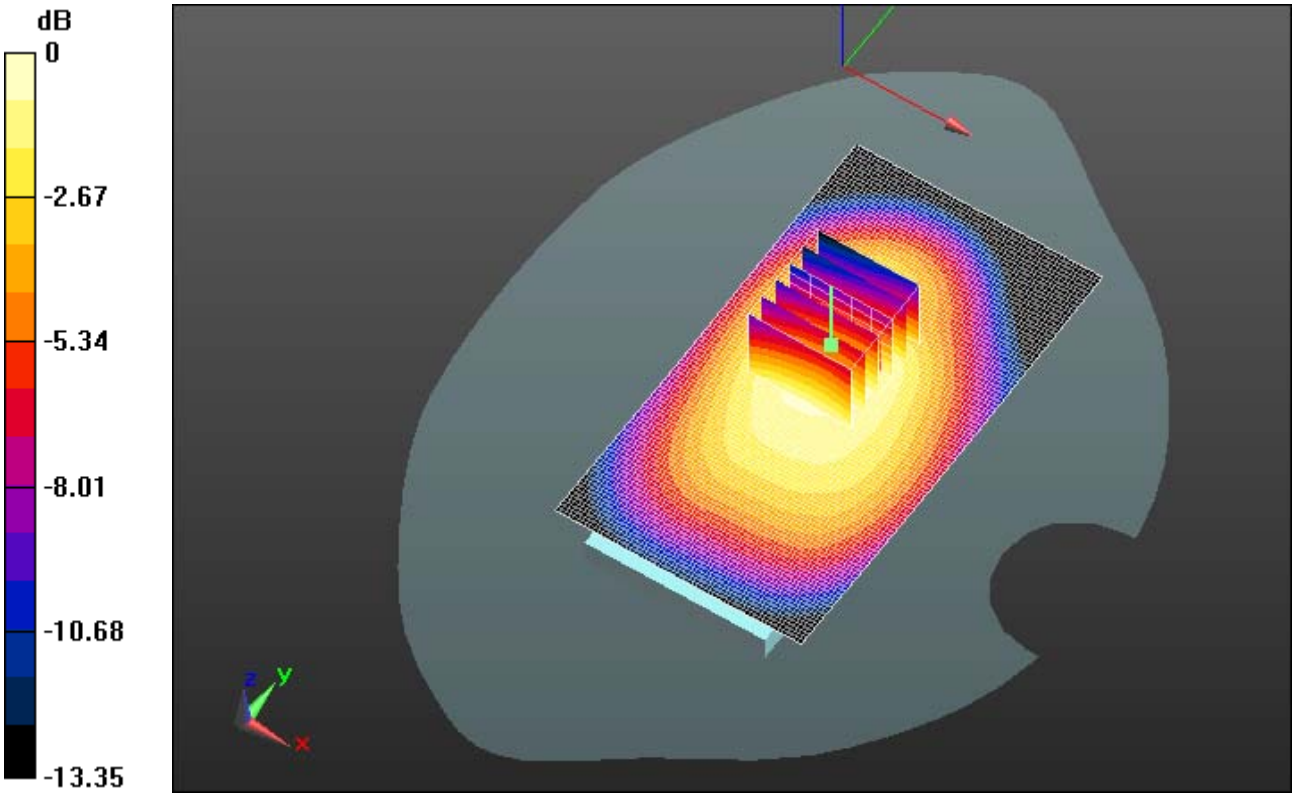

0 dB = 1.040mW/g = 0.34 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_UMTS_Band_V_high_chan_amb_temp_23.3_liq_temp_21.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A20270D

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) = 0.753 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 25.104 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.9510
SAR(1 g) = 0.667 mW/g; SAR(10 g) = 0.487 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.758 mW/g

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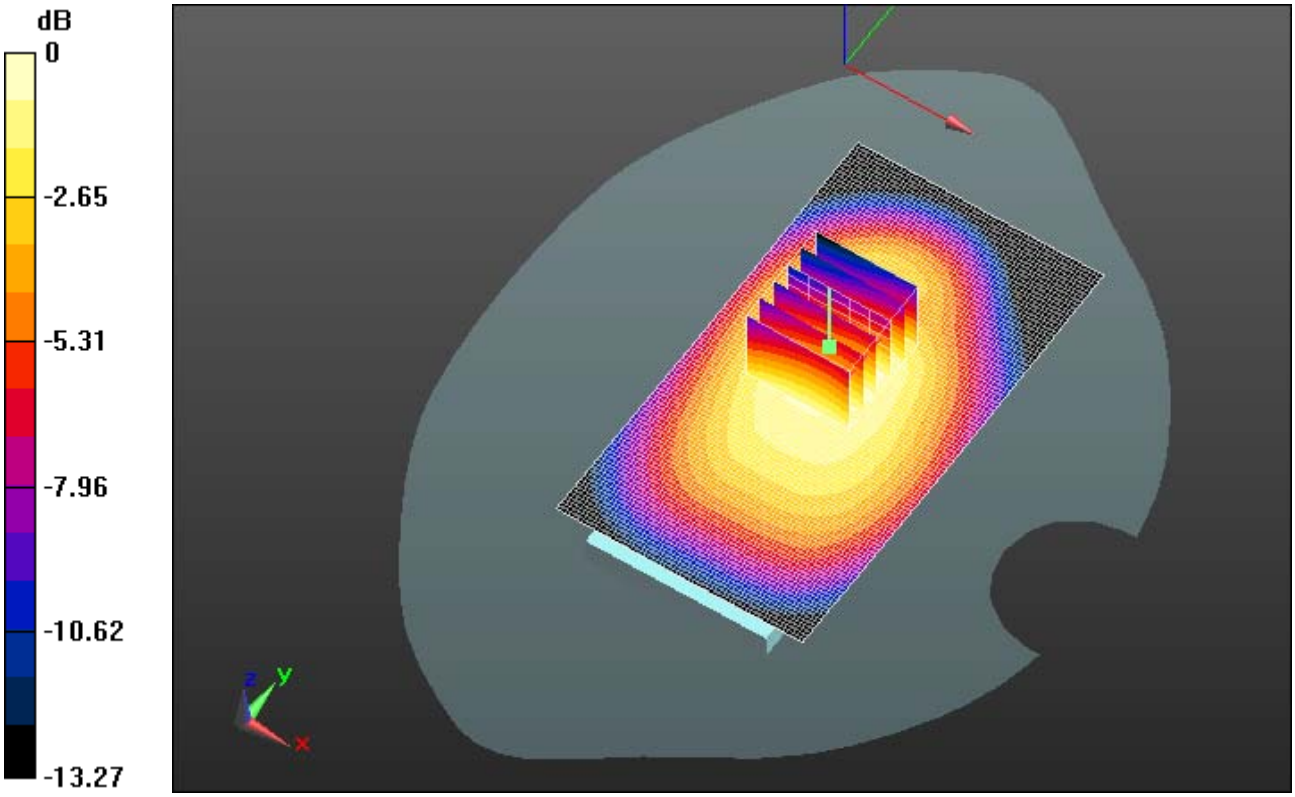

0 dB = 0.760mW/g = -2.38 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Front_UMTS_Band_V_low_chan_amb_temp_23.3 _liq_temp_21.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A20270D

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) = 0.913 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 28.185 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 1.1140
SAR(1 g) = 0.829 mW/g; SAR(10 g) = 0.610 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.930 mW/g

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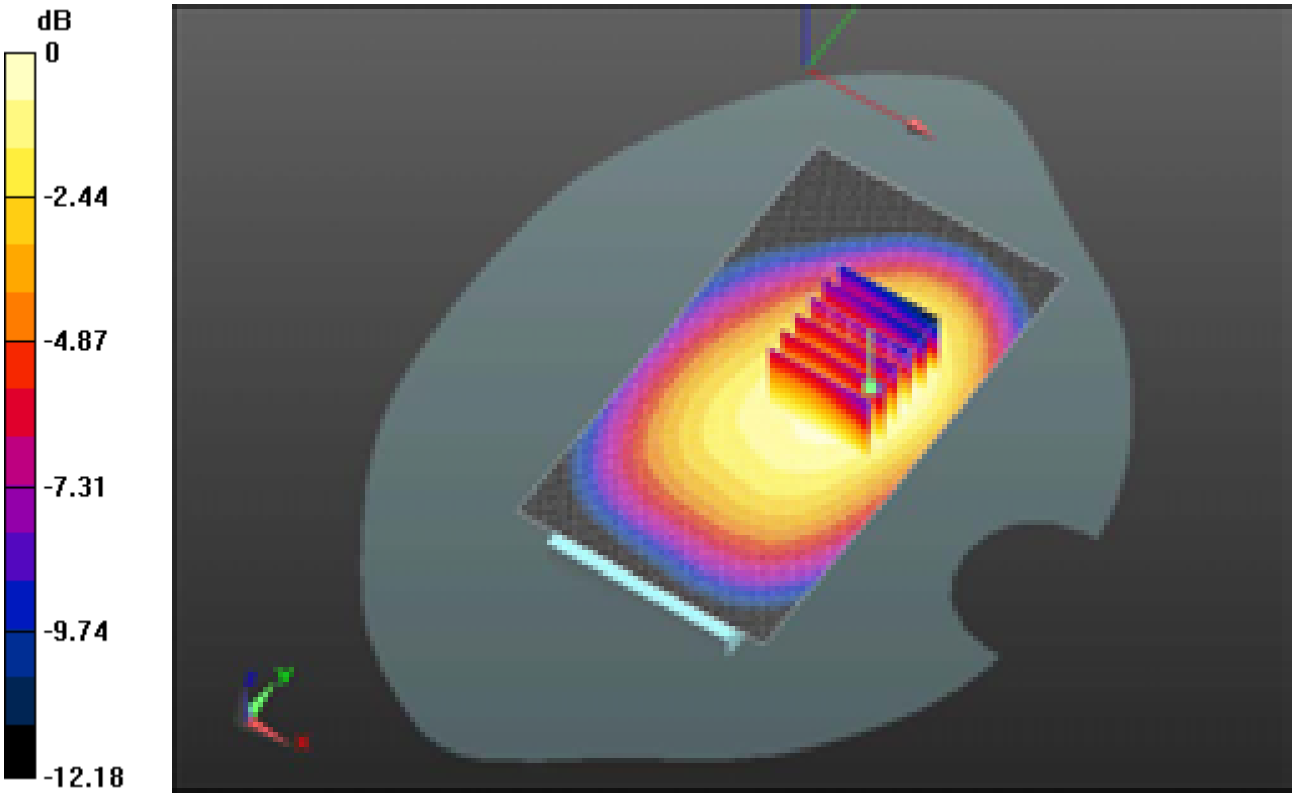

0 dB = 0.930mW/g = -0.63 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Front_UMTS_Band_V_mid_chan_amb_temp_23.0_liq_temp_21.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A20270D

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) = 0.969 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 28.385 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 1.1690
SAR(1 g) = 0.872 mW/g; SAR(10 g) = 0.644 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.979 mW/g

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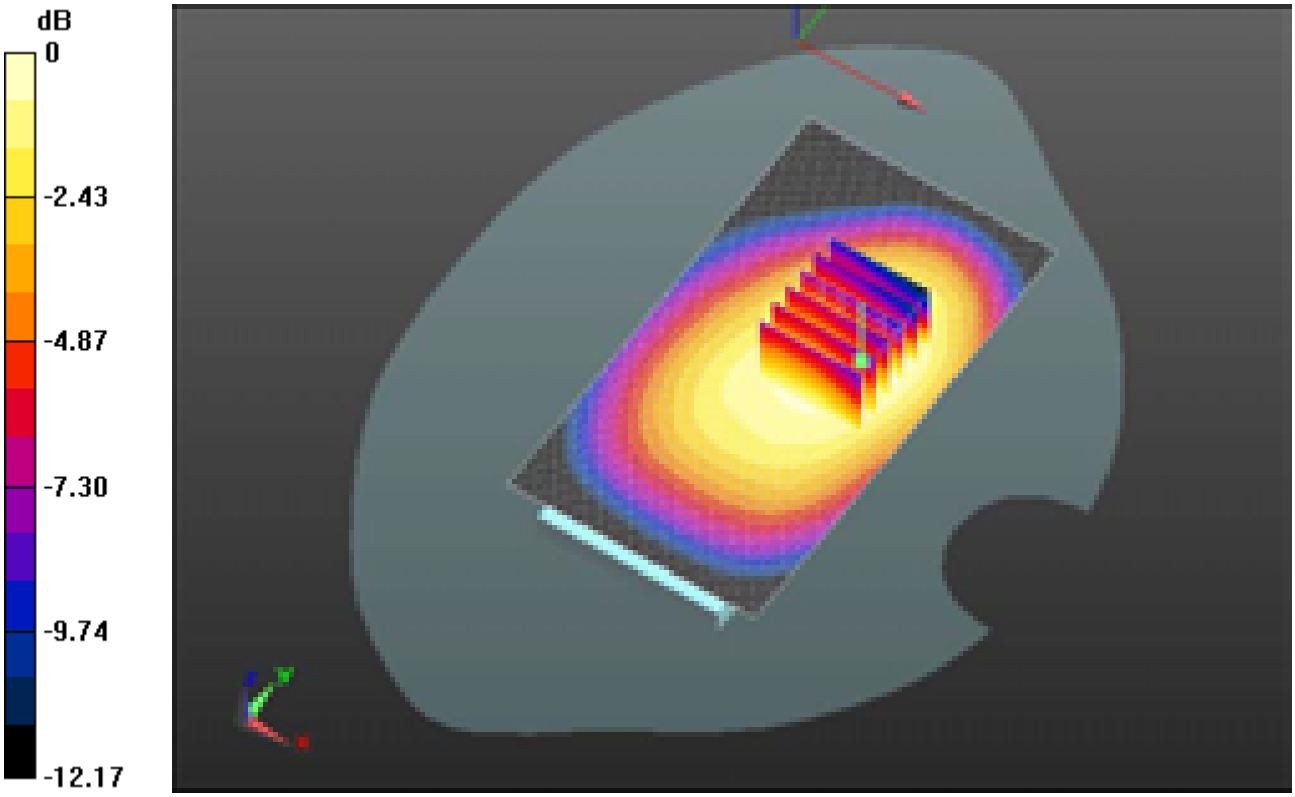

0 dB = 0.980mW/g = -0.18 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Front_UMTS_Band_V_high_chan_amb_temp_23.3_liq_temp_21.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A20270D

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) = 0.732 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 25.012 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.8700
SAR(1 g) = 0.649 mW/g; SAR(10 g) = 0.480 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.720 mW/g

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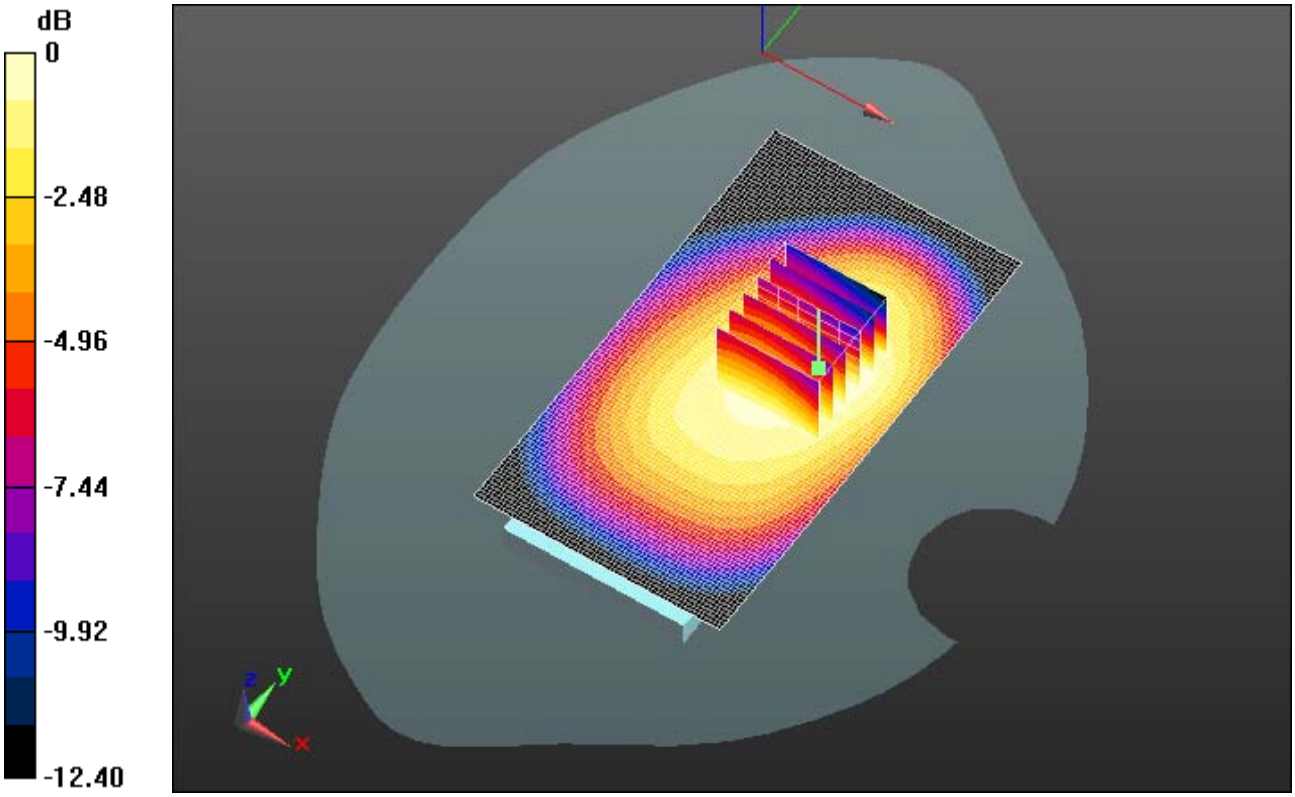

0 dB = 0.720mW/g = -2.85 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Left_UMTS_Band_V_mid_chan_amb_temp_23.1C _liq_temp_21.2C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A20270D

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) = 0.644 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 26.641 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.8090
SAR(1 g) = 0.579 mW/g; SAR(10 g) = 0.397 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.666 mW/g

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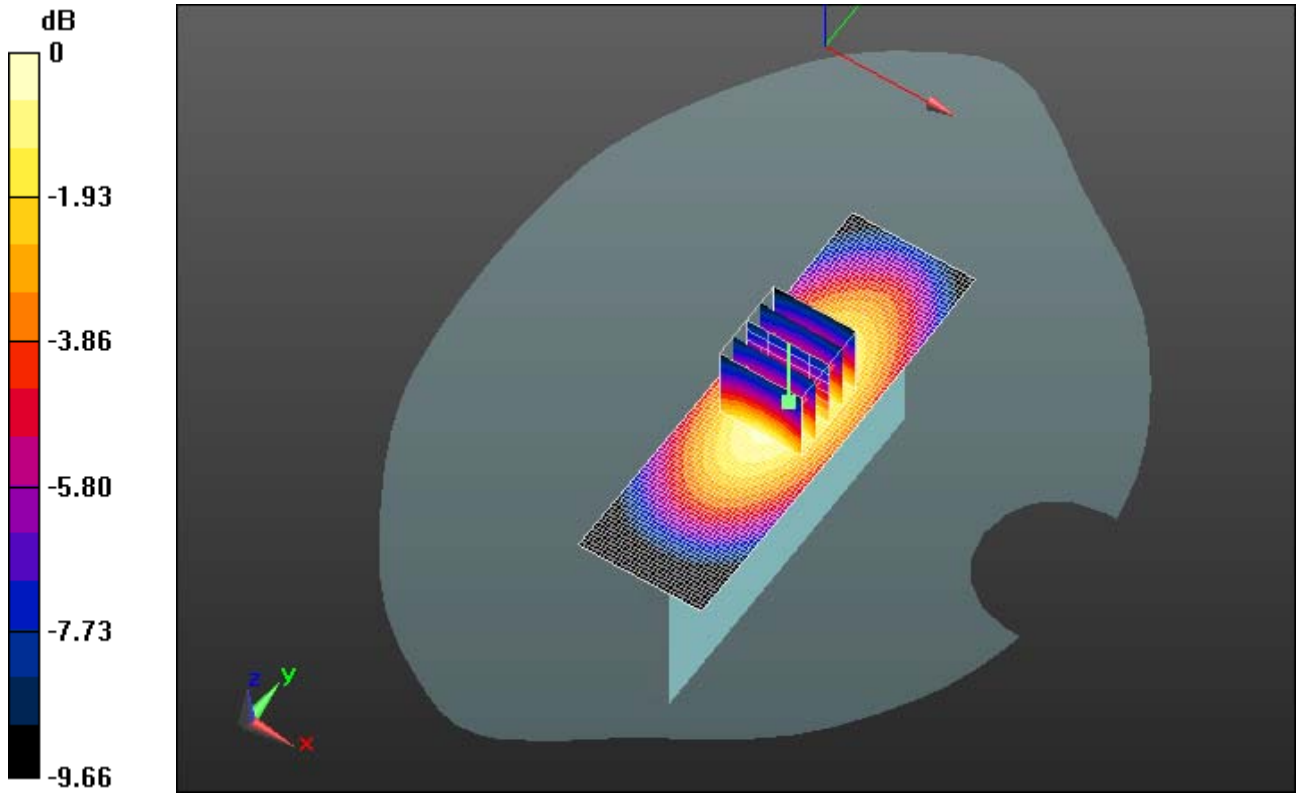

0 dB = 0.670mW/g = -3.48 dB mW/g

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Date/Time: 6/5/2012 10:11:32 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Right_UMTS_Band_V_mid_chan_amb_temp_22.8 C_liq_temp_21.2C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A20270D

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) = 0.902 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 30.950 V/m; Power Drift = 0.0076 dB
Peak SAR (extrapolated) = 1.1000
SAR(1 g) = 0.790 mW/g; SAR(10 g) = 0.548 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.901 mW/g

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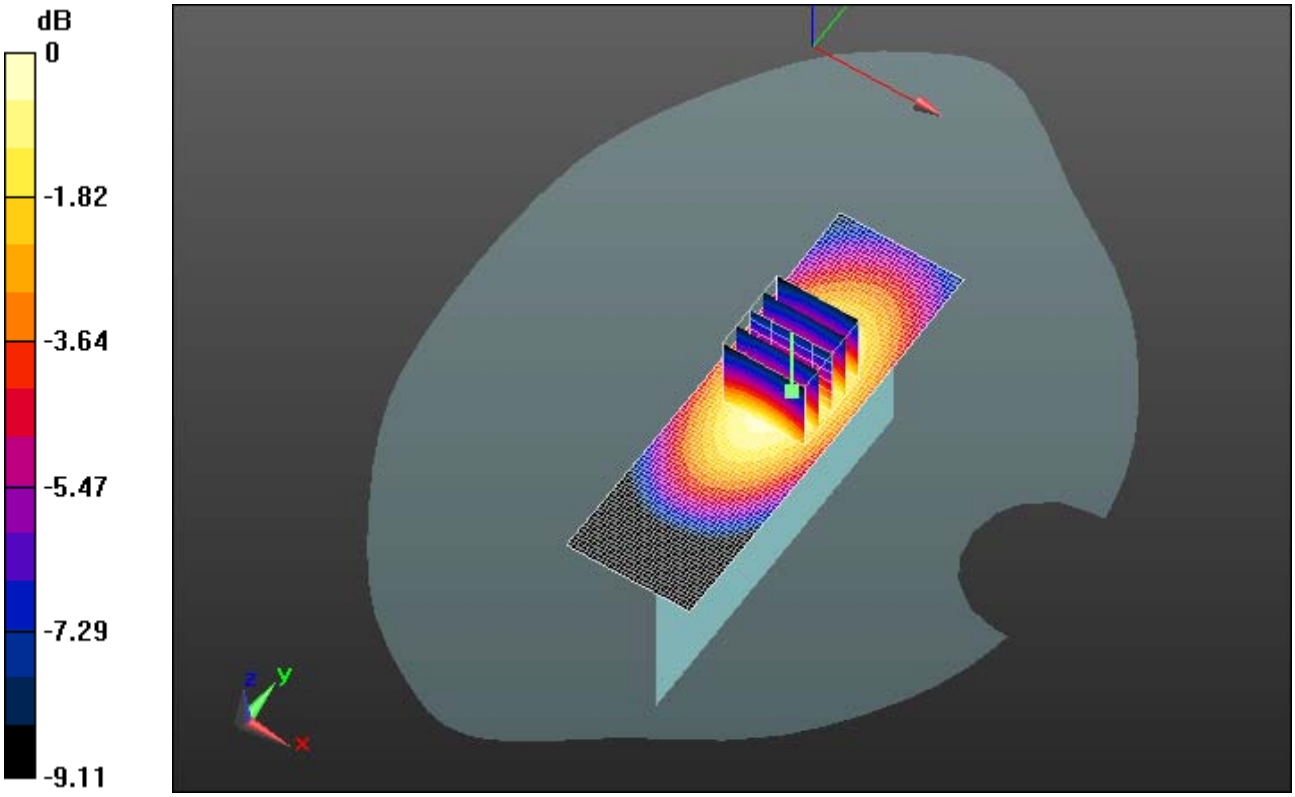

0 dB = 0.900mW/g = -0.92 dB mW/g

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Date/Time: 6/5/2012 9:49:01 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Bottom_UMTS_Band_V_mid_chan_amb_temp_22.8_liq_temp_21.2C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A20270D

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) = 0.234 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 16.127 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.3540
SAR(1 g) = 0.196 mW/g; SAR(10 g) = 0.107 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.248 mW/g

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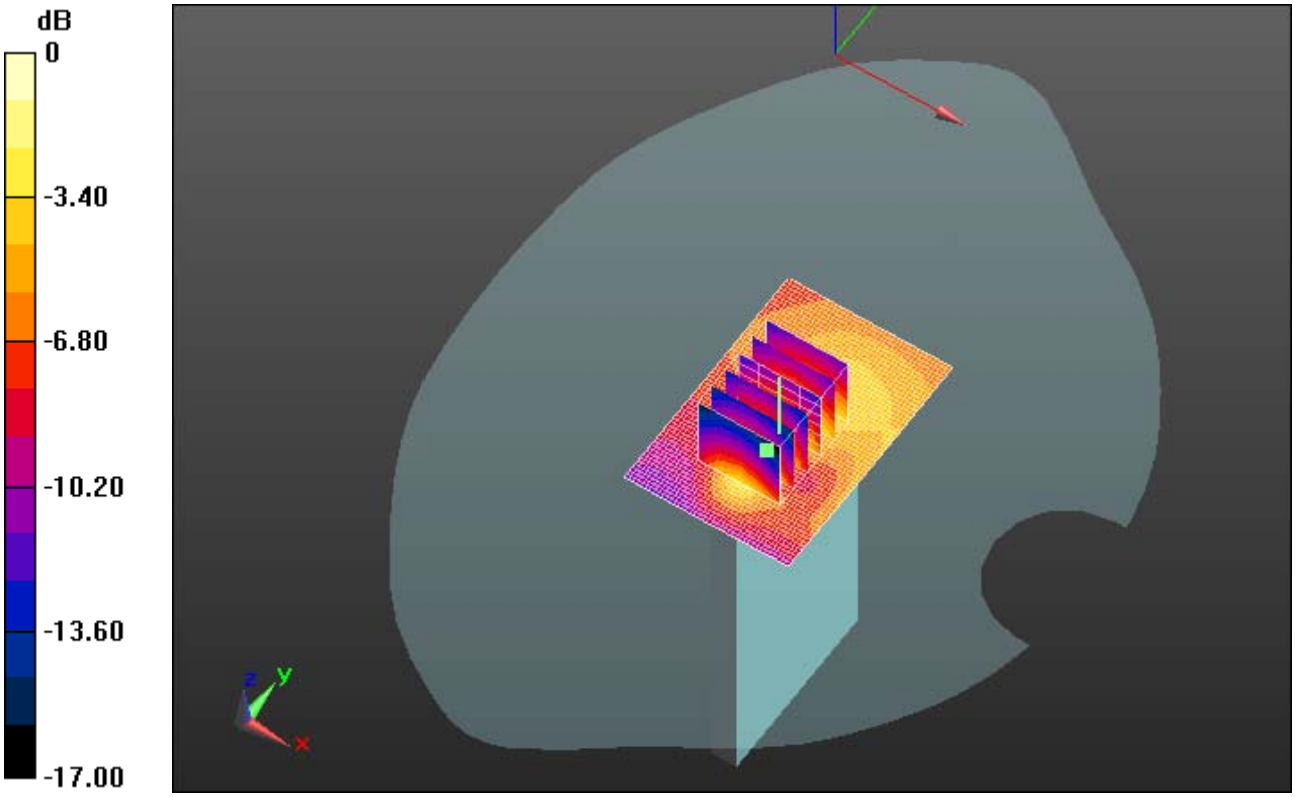

0 dB = 0.250mW/g = -12.04 dB mW/g

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Date/Time: 6/6/2012 2:05:30 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_Headset_UMTS_Band_V_mid_chan_amb_temp_23.3_liq_temp_21.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A20270D

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) = 0.935 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 25.642 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.1400
SAR(1 g) = 0.804 mW/g; SAR(10 g) = 0.573 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.903 mW/g

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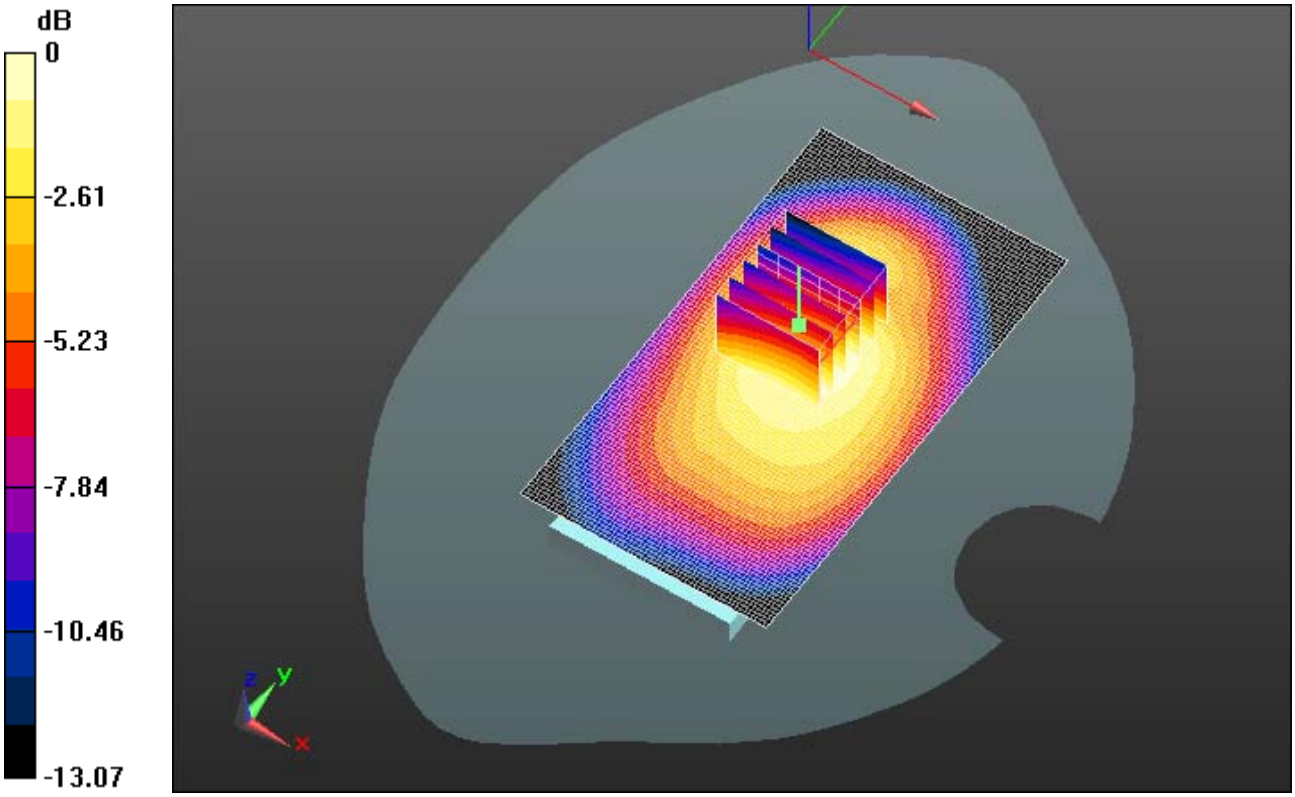

0 dB = 0.900mW/g = -0.92 dB mW/g

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Date/Time: 9/21/2012 1:41:15 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_UMTS_Band_V_mid_chan_amb_temp_23.9_liq_temp_22.4C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A8C7018

Communication System: WCDMA FDD V; Frequency: 836.4 MHz
Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.975 mho/m; ε_r = 54.209; 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) = 0.892 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 27.218 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 1.1090
SAR(1 g) = 0.783 mW/g; SAR(10 g) = 0.569 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.877 mW/g

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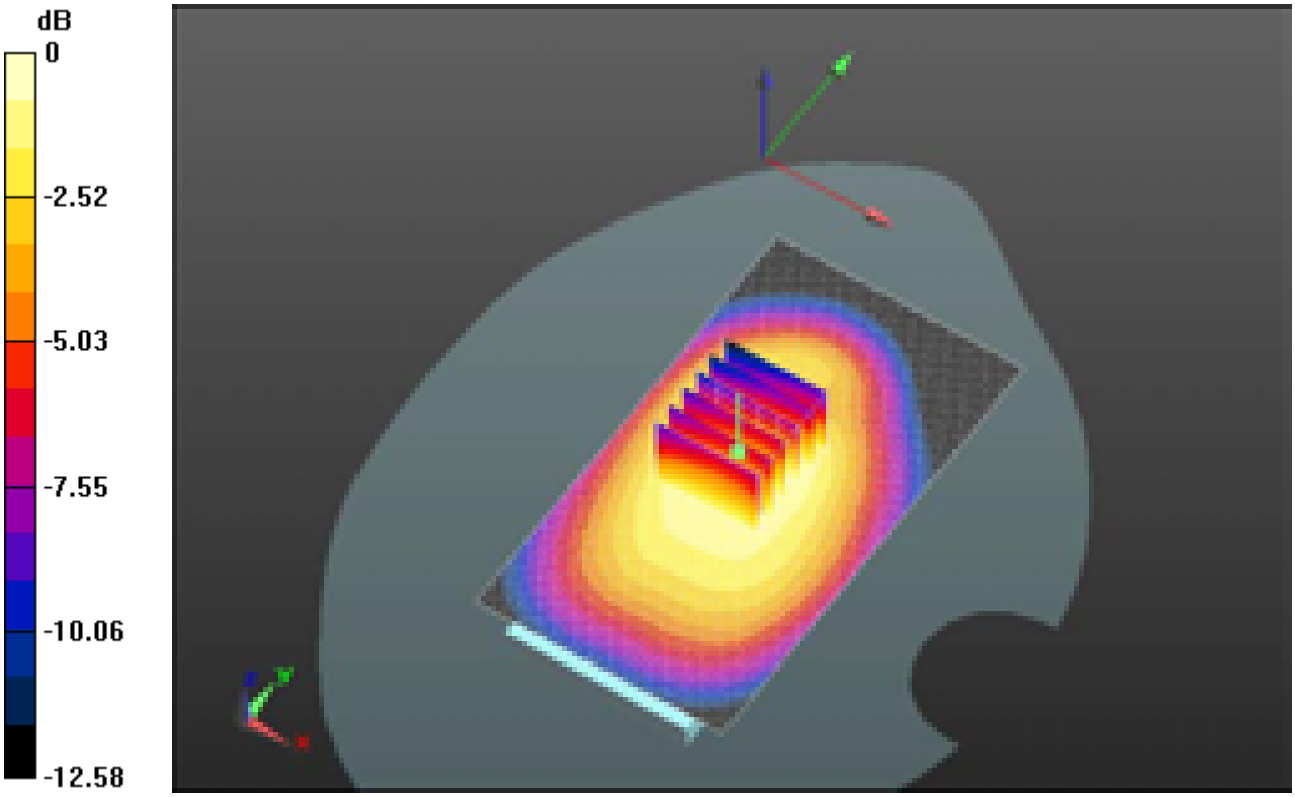

0 dB = 0.880mW/g = -1.11 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_4_mid_chan_QPSK_RB_1_Offset_0_amb_temp_23.5_liq_temp_21.4C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A211C01

Communication System: LTE; Frequency: 1732.5 MHz
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.51 mho/m; ε_r = 51.287; 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) = 1.919 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 12.640 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 2.5230
SAR(1 g) = 1.5 mW/g; SAR(10 g) = 0.909 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.829 mW/g

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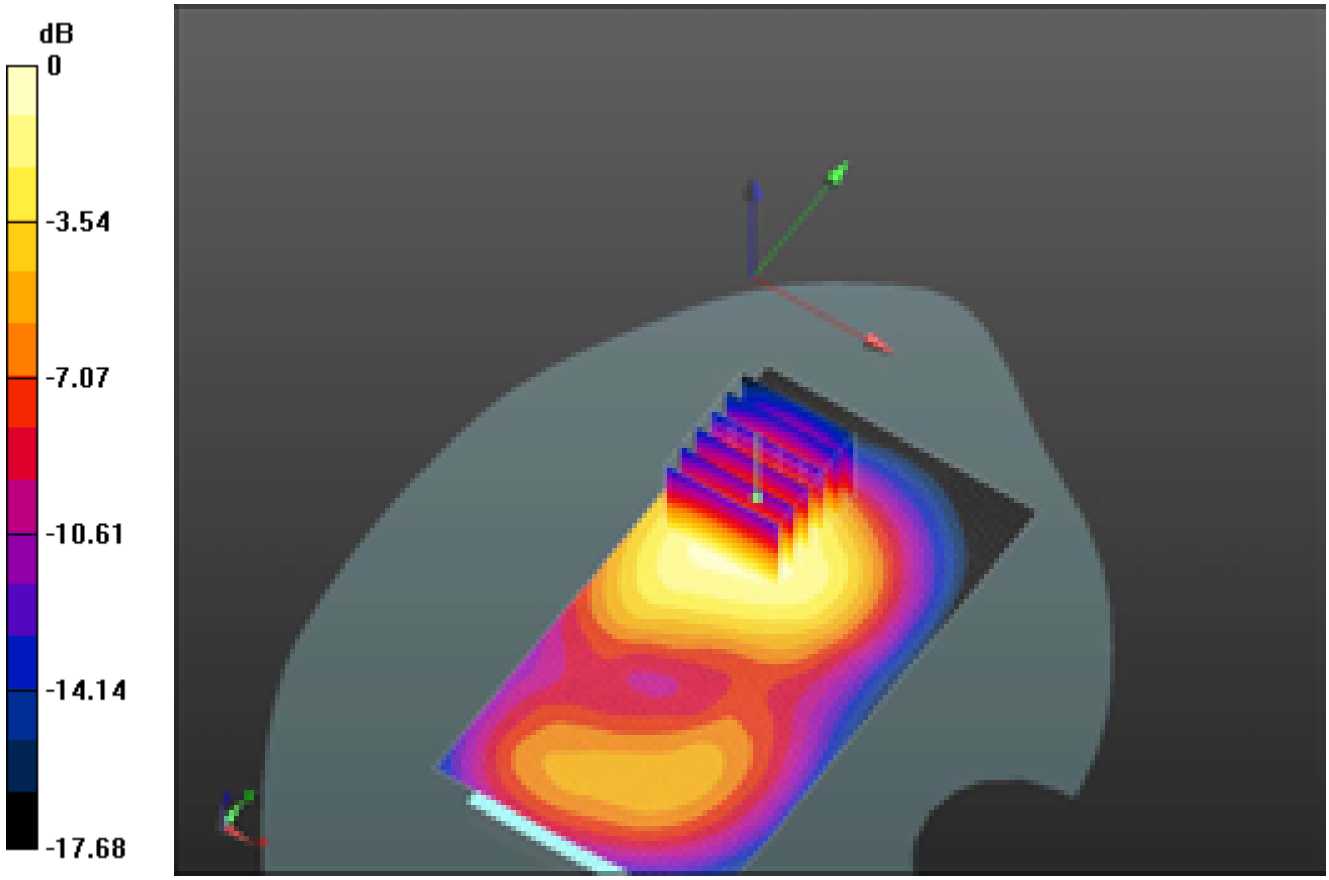

0 dB = 1.830mW/g = 5.25 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_4_mid_chan_QPSK_RB_1_Offset_99_amb_temp_22.8_liq_temp_21.6C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A211C01

Communication System: LTE; Frequency: 1732.5 MHz
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.51 mho/m; ε_r = 51.287; 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) = 1.738 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 12.047 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 2.3260
SAR(1 g) = 1.36 mW/g; SAR(10 g) = 0.805 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.689 mW/g

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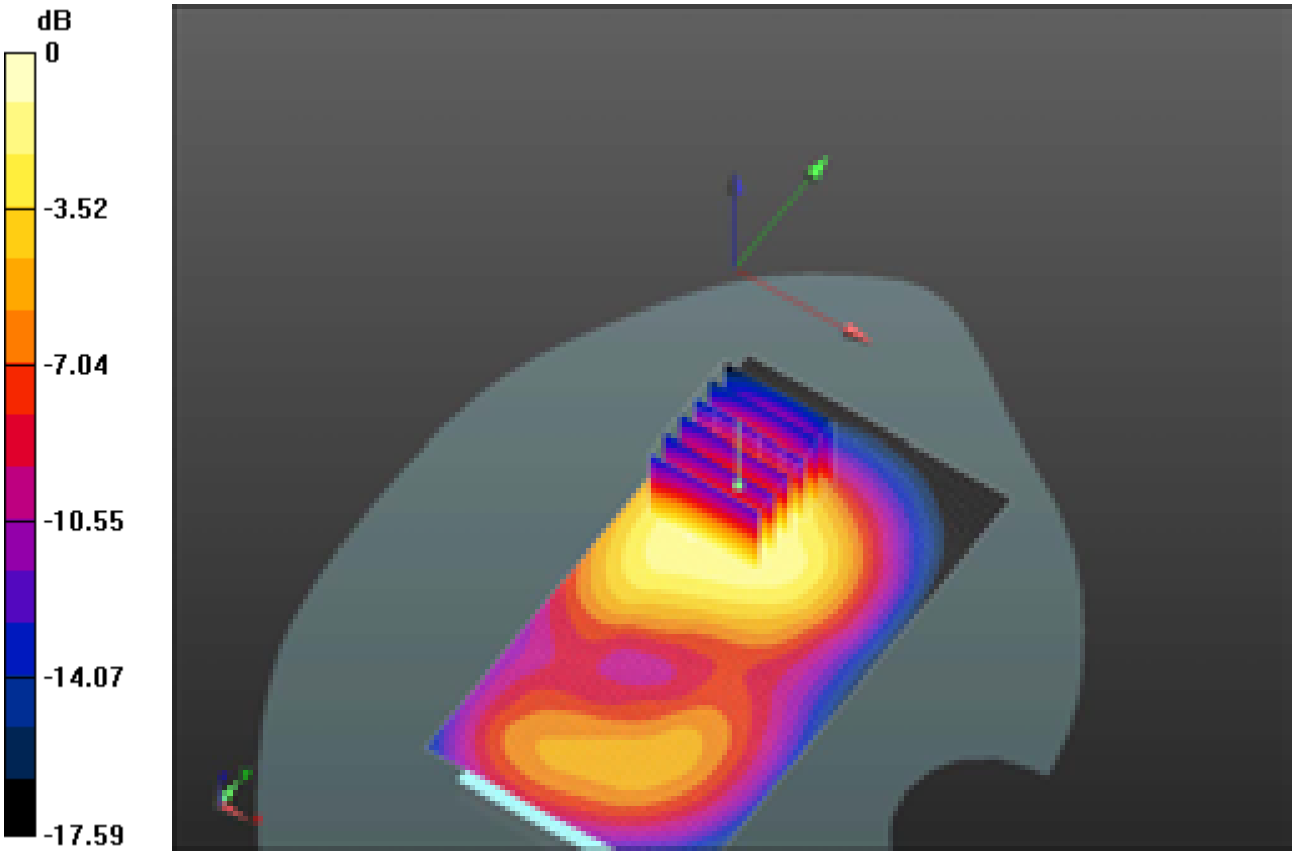

0 dB = 1.690mW/g = 4.56 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_4_mid_chan_QPSK_RB_50_Offset_0_amb_temp_22.8_liq_temp_21.4C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A211C01

Communication System: LTE; Frequency: 1732.5 MHz
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.51 mho/m; ε_r = 51.287; 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) = 1.561 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 12.612 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 1.9530
SAR(1 g) = 1.14 mW/g; SAR(10 g) = 0.671 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.331 mW/g

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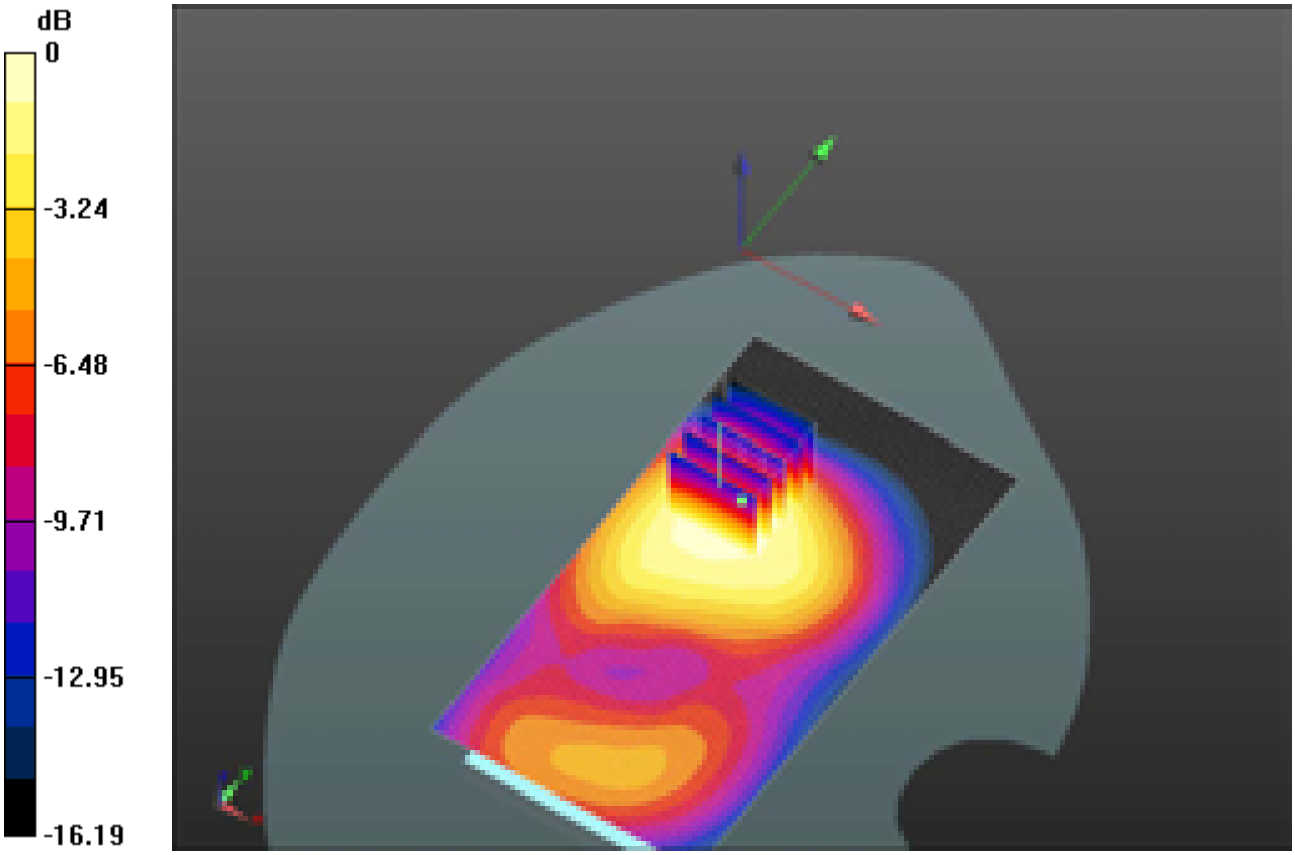

0 dB = 1.330mW/g = 2.48 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_4_mid_chan_16QAM_RB_1_Offset_0_amb_temp_23.0_liq_temp_21.7C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A211C01

Communication System: LTE; Frequency: 1732.5 MHz
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.51 mho/m; ε_r = 51.287; 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) = 1.446 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 10.544 V/m; Power Drift = -0.28 dB
Peak SAR (extrapolated) = 1.7470
SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.634 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.243 mW/g

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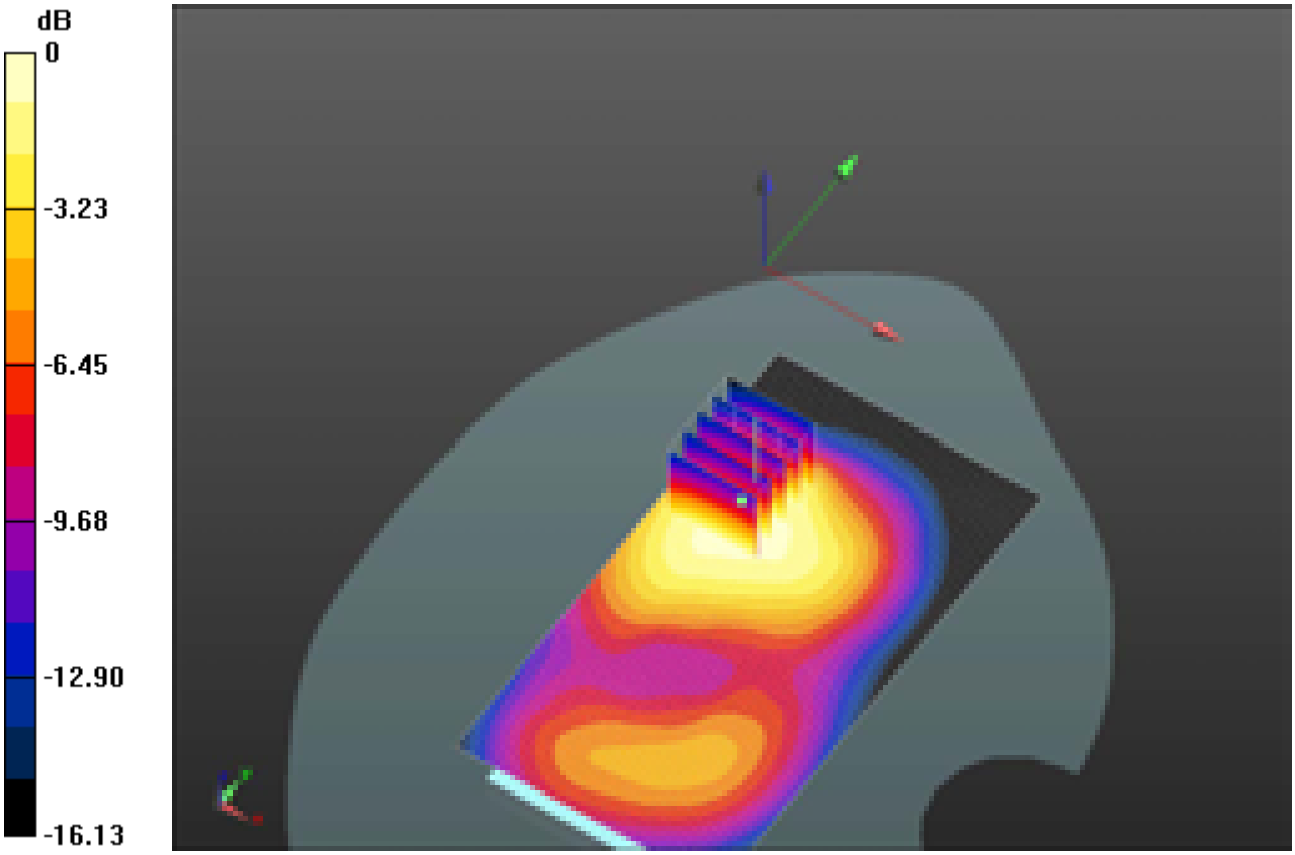

0 dB = 1.240mW/g = 1.87 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_4_mid_chan_16QAM_RB_1_Offset_99_amb_temp_22.9_liq_temp_21.3C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A211C01

Communication System: LTE; Frequency: 1732.5 MHz
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.51 mho/m; ε_r = 51.287; 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) = 1.499 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 11.667 V/m; Power Drift = -0.29 dB
Peak SAR (extrapolated) = 1.9700
SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.692 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.443 mW/g

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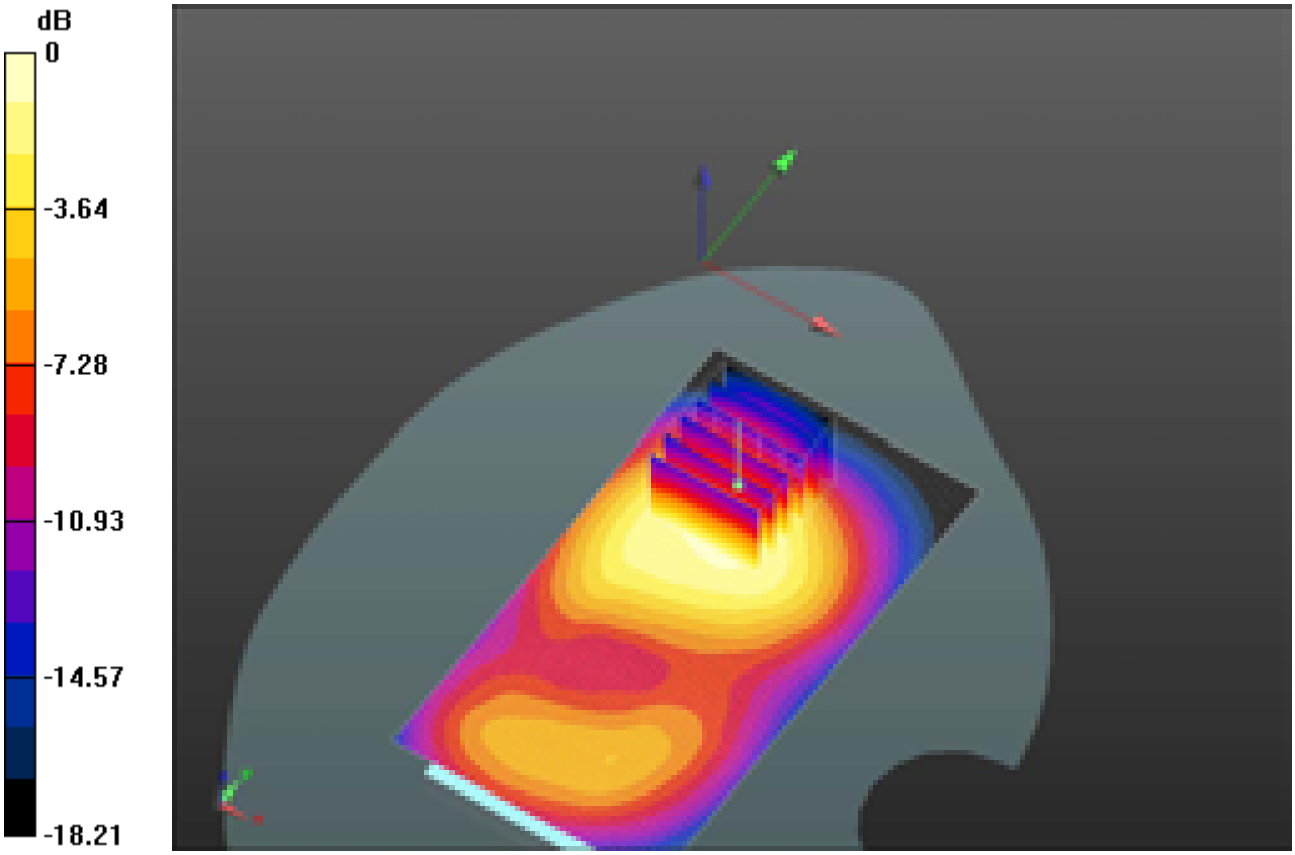

0 dB = 1.440mW/g = 3.17 dB mW/g

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Date/Time: 6/14/2012 3:41:18 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_4_mid_chan_16QAM_RB_75_Offset_0_amb_temp_22.7_liq_temp_21.6C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A211C01

Communication System: LTE; Frequency: 1732.5 MHz
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.51 mho/m; ε_r = 51.287; 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) = 1.389 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 10.282 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.7160
SAR(1 g) = 0.996 mW/g; SAR(10 g) = 0.593 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.189 mW/g

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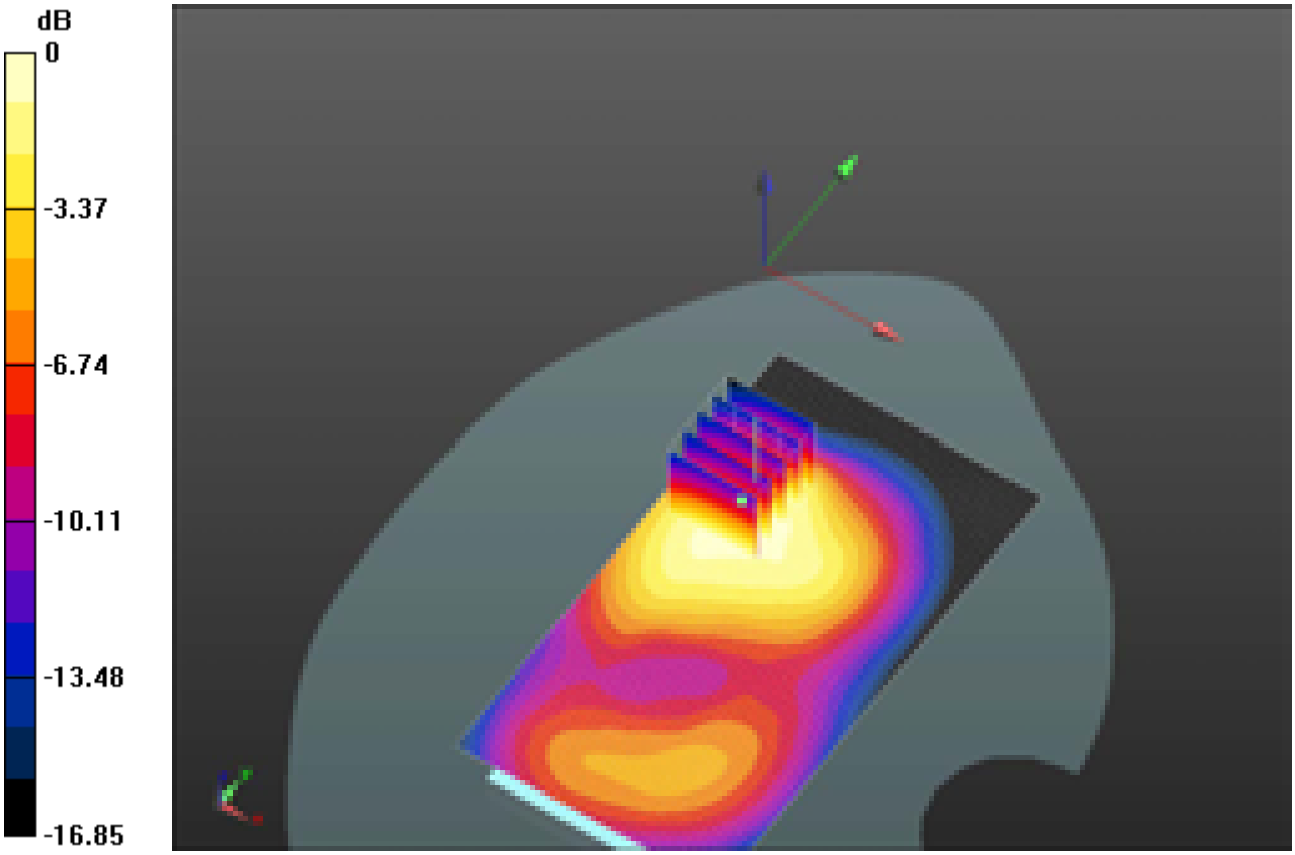

0 dB = 1.190mW/g = 1.51 dB mW/g

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Date/Time: 6/14/2012 4:02:10 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Front_LTE_4_mid_chan_QPSK_RB_1_Offset_0_amb_temp_23.1_liq_temp_21.8C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A211C01

Communication System: LTE; Frequency: 1732.5 MHz
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.51 mho/m; ε_r = 51.287; 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) = 1.312 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 11.073 V/m; Power Drift = -0.21 dB
Peak SAR (extrapolated) = 1.6120
SAR(1 g) = 1.02 mW/g; SAR(10 g) = 0.652 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.203 mW/g

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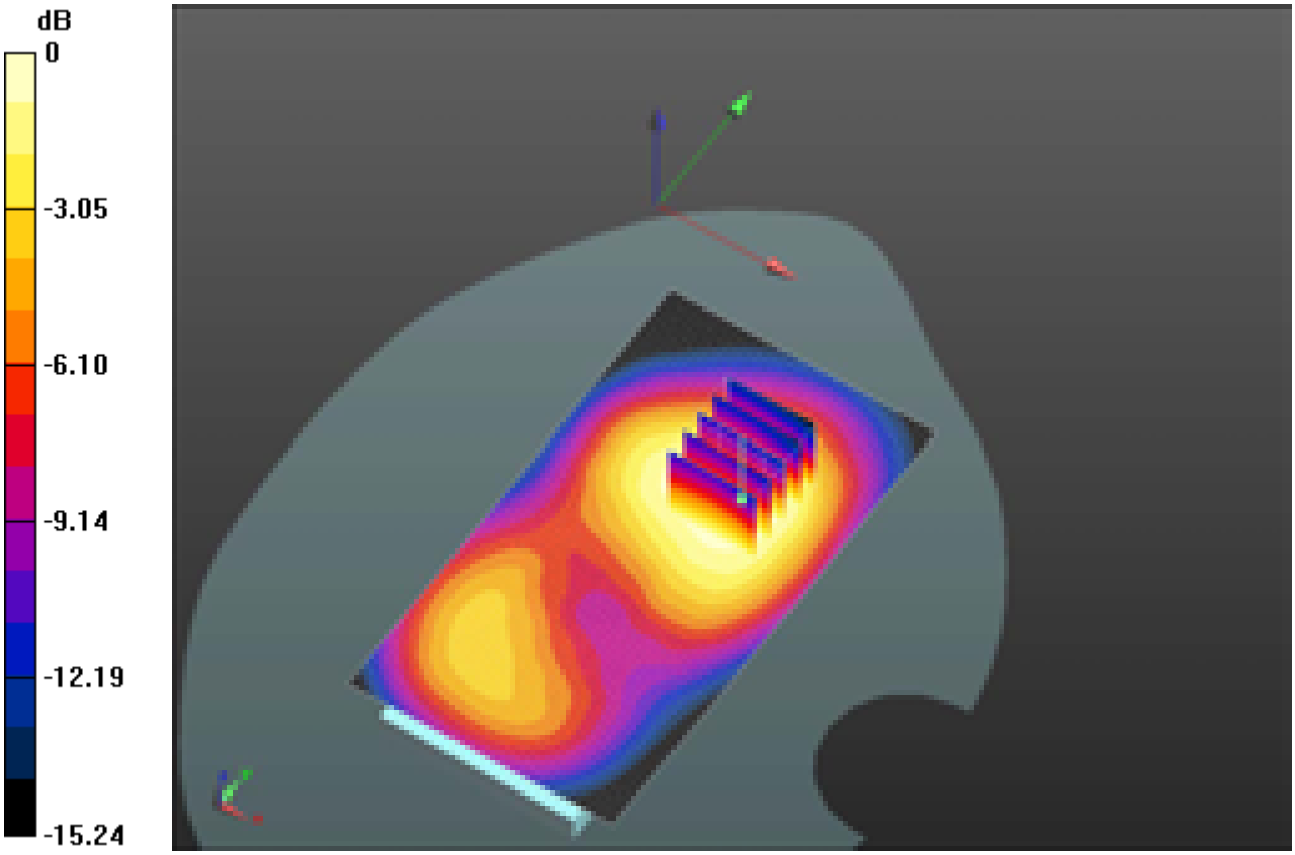

0 dB = 1.200mW/g = 1.58 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Left_ LTE_4_mid_chan_QPSK_RB_1_Offset_0 _amb_temp_22.6C_liq_temp_21.3C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A211C01

Communication System: LTE; Frequency: 1732.5 MHz
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.51 mho/m; ε_r = 51.287; 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

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.659 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 14.275 V/m; Power Drift = 0.22 dB
Peak SAR (extrapolated) = 0.8710
SAR(1 g) = 0.528 mW/g; SAR(10 g) = 0.303 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.643 mW/g

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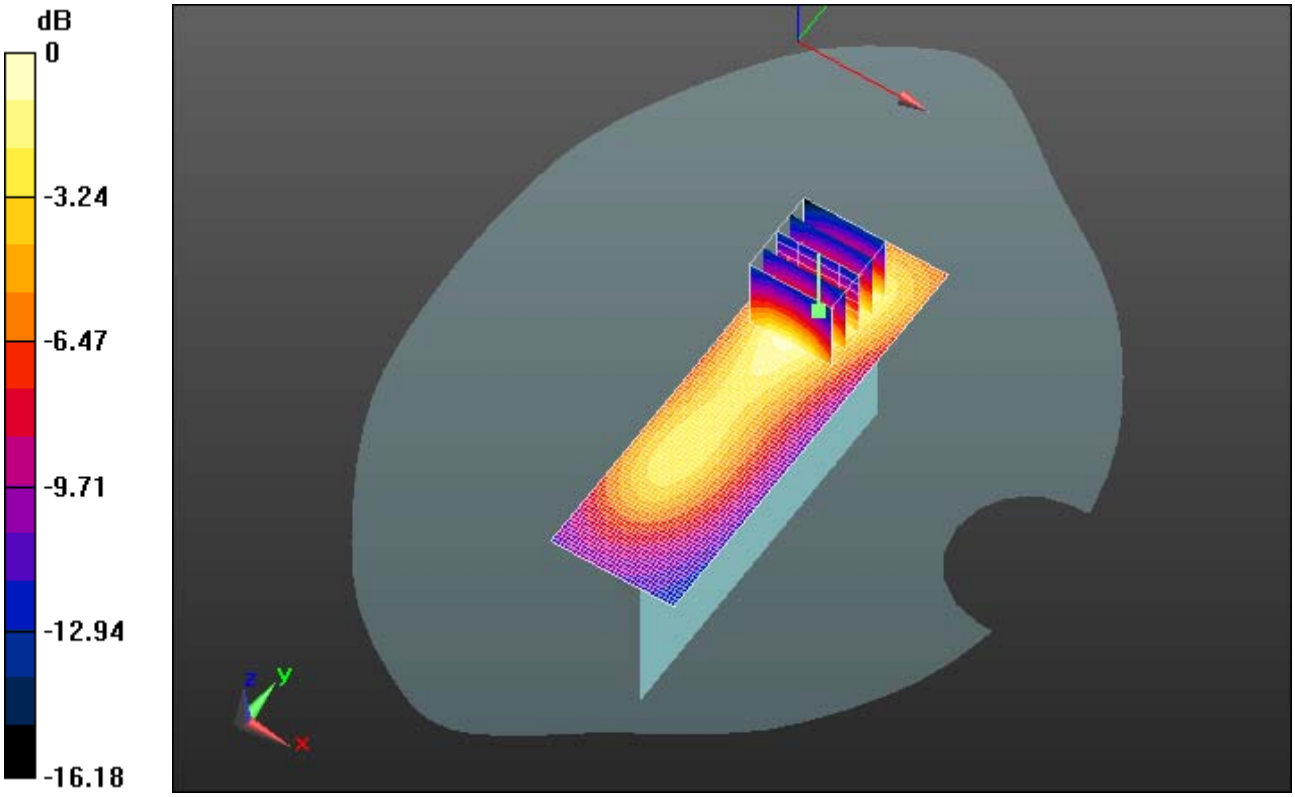

0 dB = 0.640mW/g = -3.88 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Right_LTE_4_mid_chan_amb_temp_22.9C_liq_temp_21.4C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A211C01

Communication System: LTE; Frequency: 1732.5 MHz
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.51 mho/m; ε_r = 51.287; 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

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.348 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 12.933 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.4470
SAR(1 g) = 0.279 mW/g; SAR(10 g) = 0.164 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.337 mW/g

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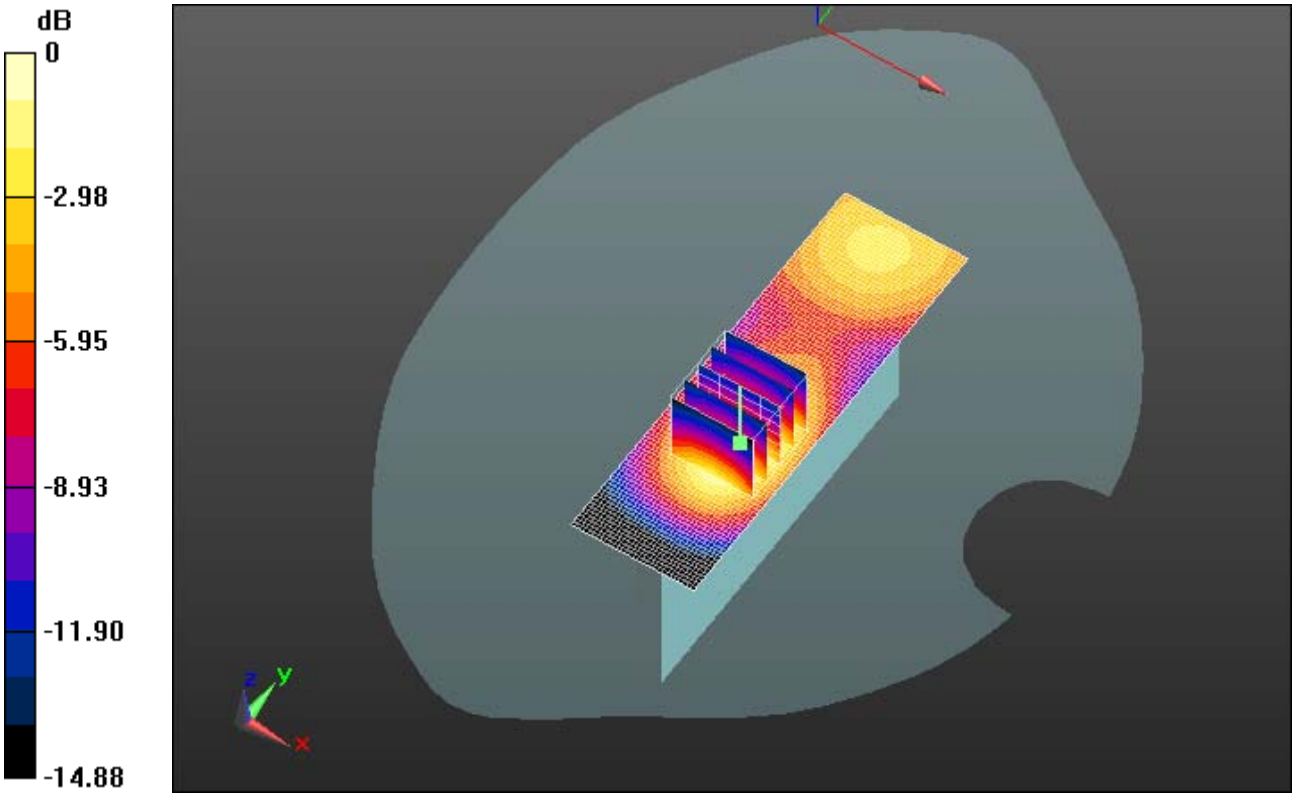

0 dB = 0.340mW/g = -9.37 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Bottom_LTE_4_mid_chan_QPSK_RB_1_Offset_0_amb_temp_22.6_liq_temp_21.3C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A211C01

Communication System: LTE; Frequency: 1732.5 MHz
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.51 mho/m; ε_r = 51.287; 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 (31x81x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.688 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 20.827 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.9220
SAR(1 g) = 0.558 mW/g; SAR(10 g) = 0.324 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.684 mW/g

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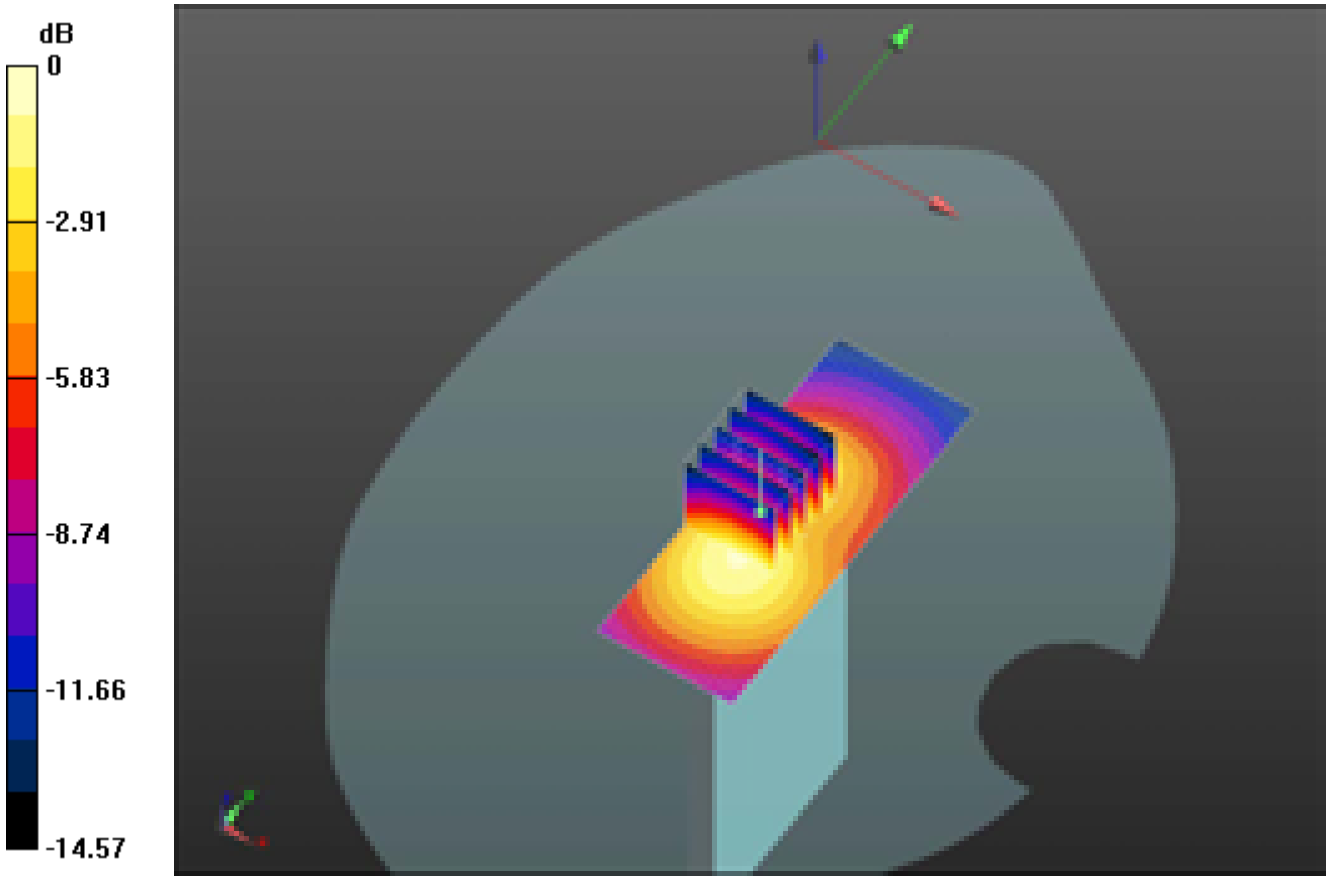

0 dB = 0.680mW/g = -3.35 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_4_low_chan_QPSK_RB_1_Offset_0_amb_temp_22.5_liq_temp_21.4C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A211C01

Communication System: LTE; Frequency: 1720 MHz
Medium parameters used: f = 1720 MHz; σ = 1.495 mho/m; ε_r = 51.37; 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) = 1.822 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 12.502 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 2.3750
SAR(1 g) = 1.42 mW/g; SAR(10 g) = 0.874 mW/g
Maximum value of SAR (measured) = 1.727 mW/g

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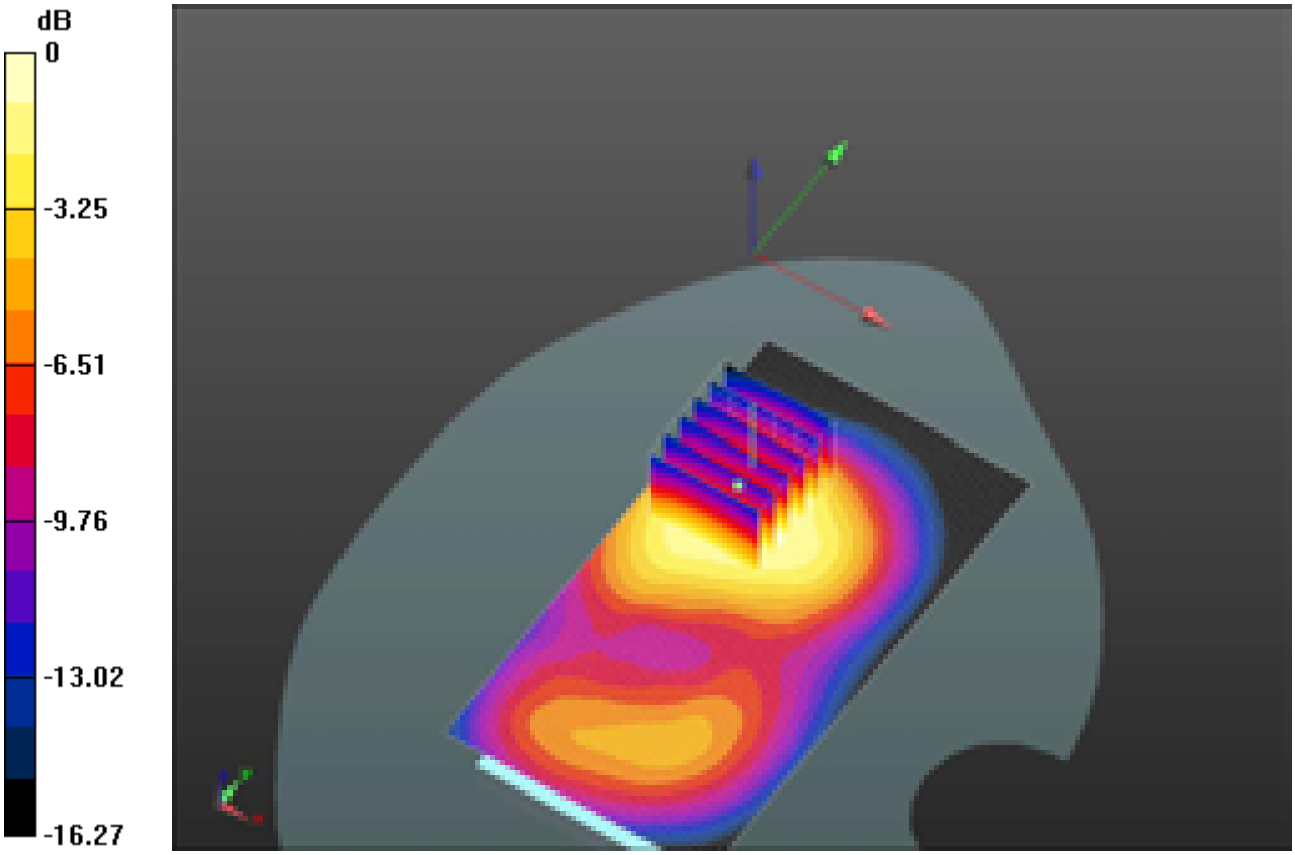

0 dB = 1.730mW/g = 4.76 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_4_high_chan_QPSK_RB_1_Offset_0_amb_temp_22.7_liq_temp_21.3C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A211C01

Communication System: LTE; Frequency: 1745 MHz
Medium parameters used: f = 1745 MHz; σ = 1.52 mho/m; ε_r = 51.238; 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) = 1.732 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 11.875 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 2.3640
SAR(1 g) = 1.38 mW/g; SAR(10 g) = 0.822 mW/g
Maximum value of SAR (measured) = 1.711 mW/g

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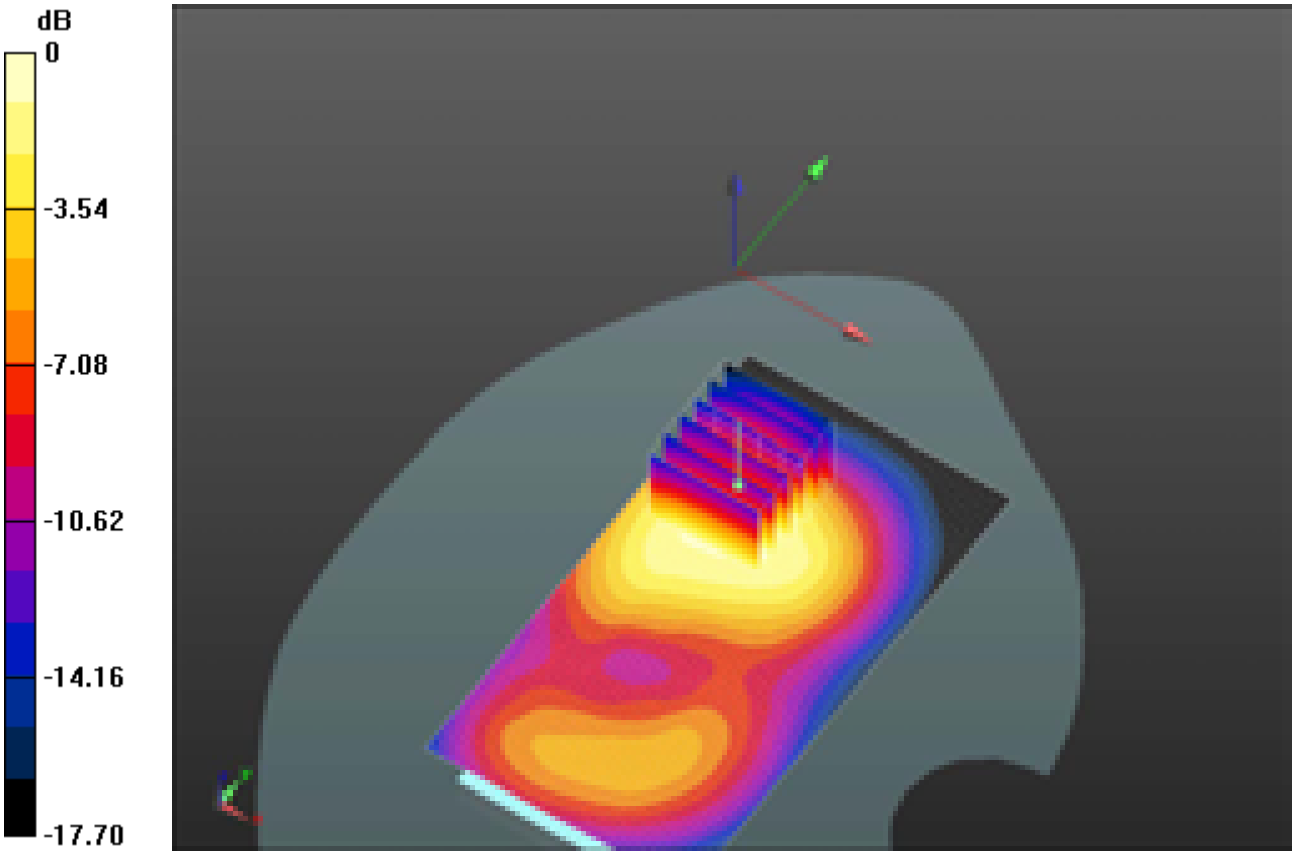

0 dB = 1.710mW/g = 4.66 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_HS_Back_LTE_4_mid_chan_QPSK_RB_1_Offset_0_amb_temp_23.0_liq_temp_21.6C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A211C01

Communication System: LTE; Frequency: 1732.5 MHz
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.51 mho/m; ε_r = 51.287; 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) = 1.832 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 12.387 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 2.3380
SAR(1 g) = 1.41 mW/g; SAR(10 g) = 0.861 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.728 mW/g

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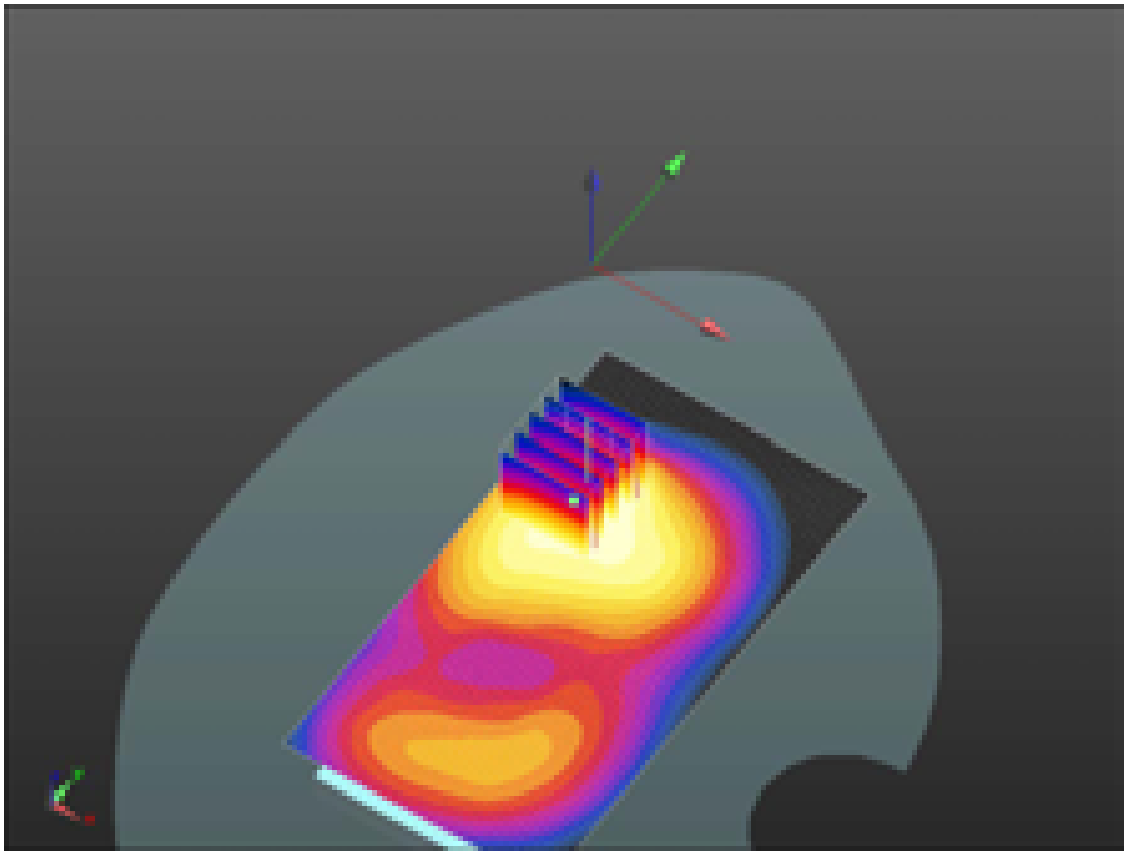

0 dB = 1.730mW/g = 4.76 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_4_mid_chan_QPSK_BW_15_RB_1_Offset_0_amb_temp_23.2_liq_temp_21.9C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A20270D

Communication System: LTE; Frequency: 1732.5 MHz
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.484 mho/m; ε_r = 50.989; 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) = 1.989 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 13.595 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 2.5190
SAR(1 g) = 1.48 mW/g; SAR(10 g) = 0.892 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.723 mW/g

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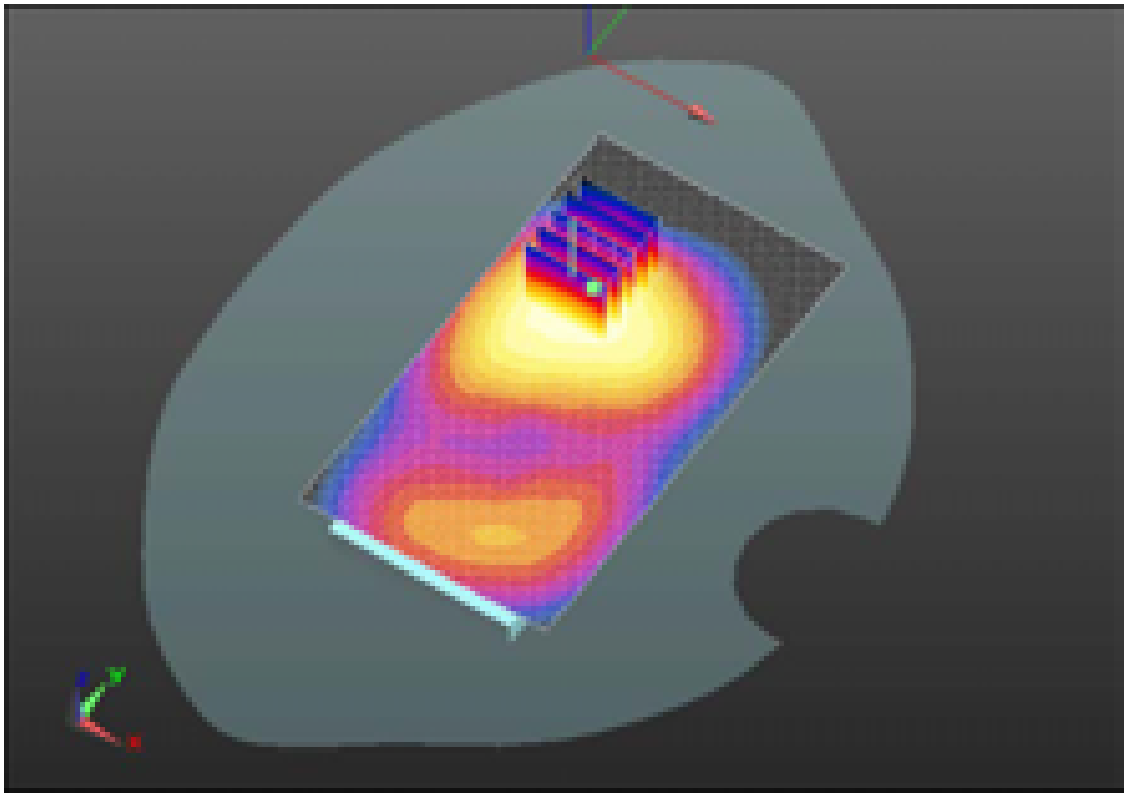

0 dB = 1.720mW/g = 4.71 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_4_mid_chan_QPSK_BW_10_RB_1_Offset_0_amb_temp_23.2_liq_temp_21.9C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A20270D

Communication System: LTE; Frequency: 1732.5 MHz
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.484 mho/m; ε_r = 50.989; 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) = 2.241 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 12.032 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 2.4780
SAR(1 g) = 1.49 mW/g; SAR(10 g) = 0.894 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.777 mW/g

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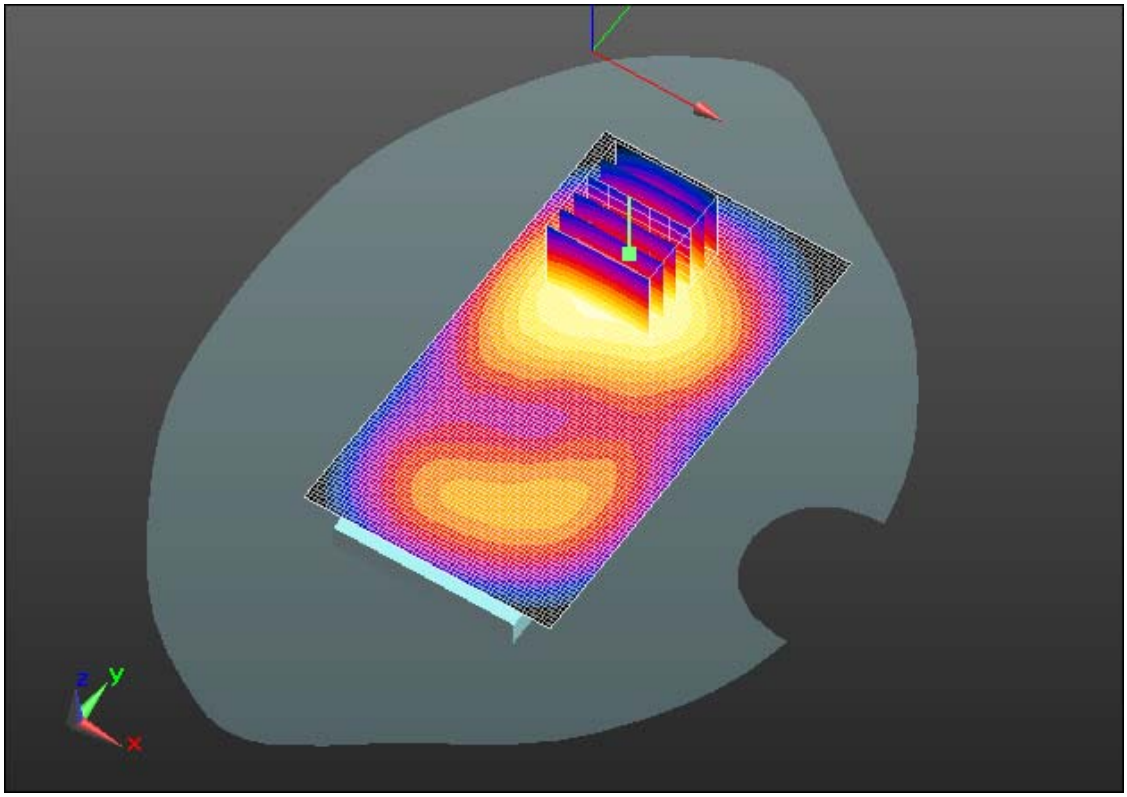

0 dB = 1.780mW/g = 5.01 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_4_mid_chan_QPSK_BW_5_RB_1_Offset_0_amb_temp_22.9_liq_temp_21.9C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A20270D

Communication System: LTE; Frequency: 1732.5 MHz
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.484 mho/m; ε_r = 50.989; 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) = 2.198 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 11.772 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 2.5130
SAR(1 g) = 1.49 mW/g; SAR(10 g) = 0.895 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.797 mW/g

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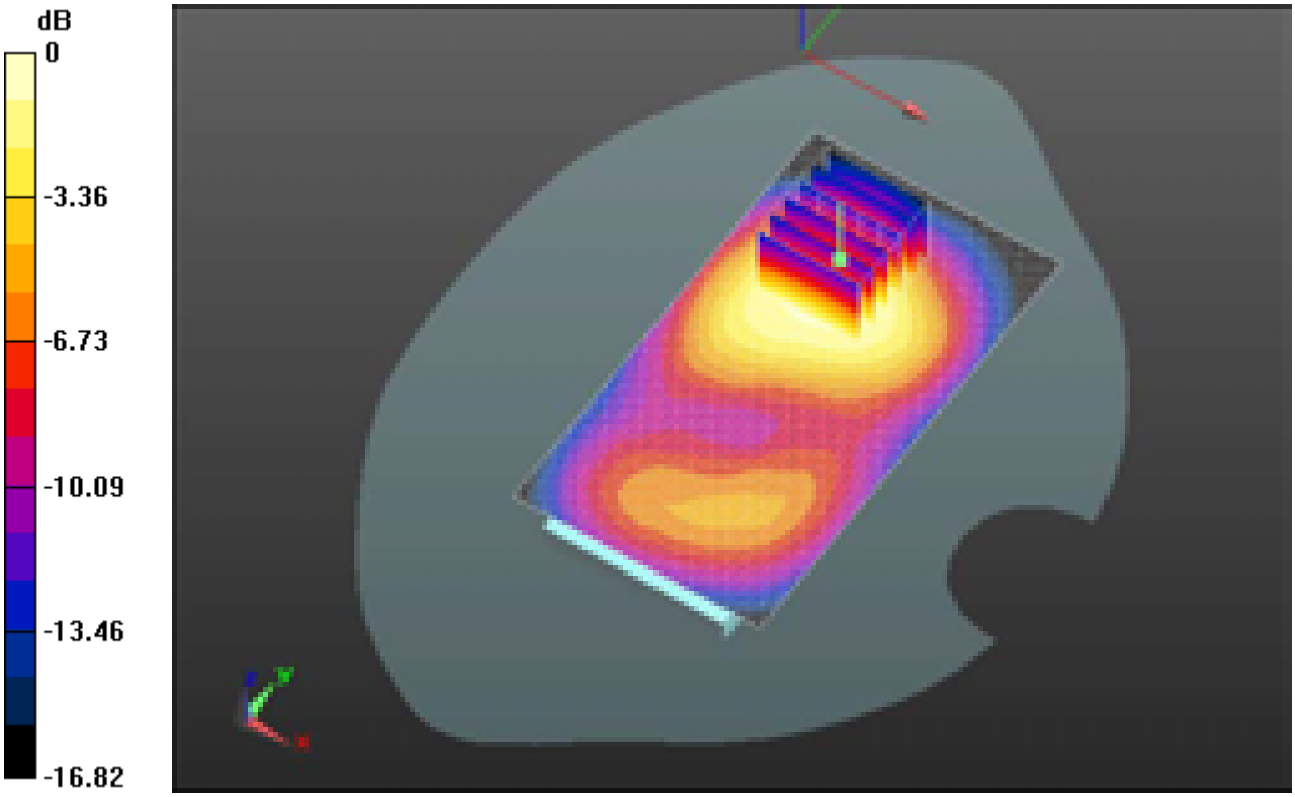

0 dB = 1.800mW/g = 5.11 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_4_mid_chan_QPSK_BW_3_RB_1_Offset_0_amb_temp_22.7_liq_temp_21.9C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A20270D

Communication System: LTE; Frequency: 1732.5 MHz
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.484 mho/m; ε_r = 50.989; 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) = 2.228 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 11.731 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 2.5150
SAR(1 g) = 1.5 mW/g; SAR(10 g) = 0.899 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.801 mW/g

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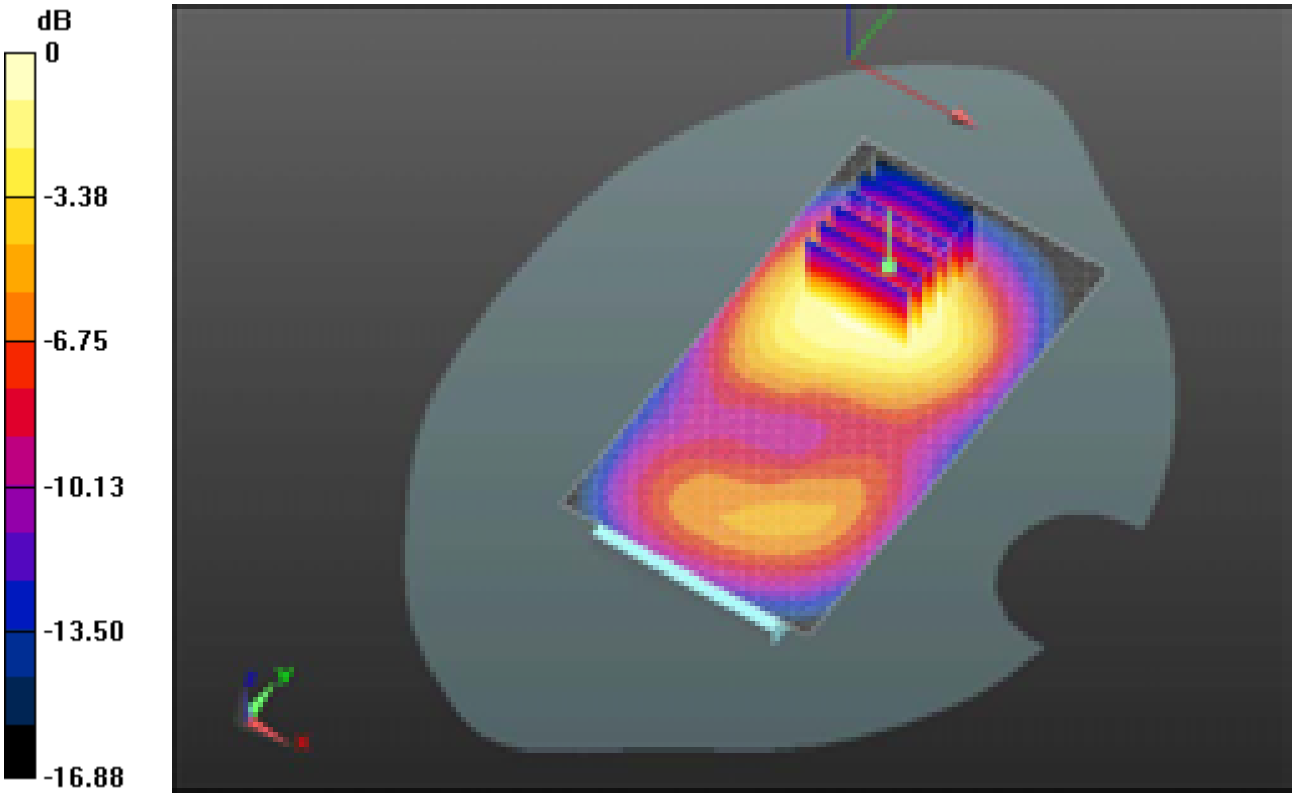

0 dB = 1.800mW/g = 5.11 dB mW/g

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Date/Time: 6/18/2012 8:36:09 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_4_mid_chan_QPSK_BW_1.4_RB_1_Offset_0_amb_temp_22.7_liq_temp_21.9C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A20270D

Communication System: LTE; Frequency: 1732.5 MHz
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.484 mho/m; ε_r = 50.989; 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) = 2.239 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 11.651 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 2.5200
SAR(1 g) = 1.5 mW/g; SAR(10 g) = 0.902 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.801 mW/g

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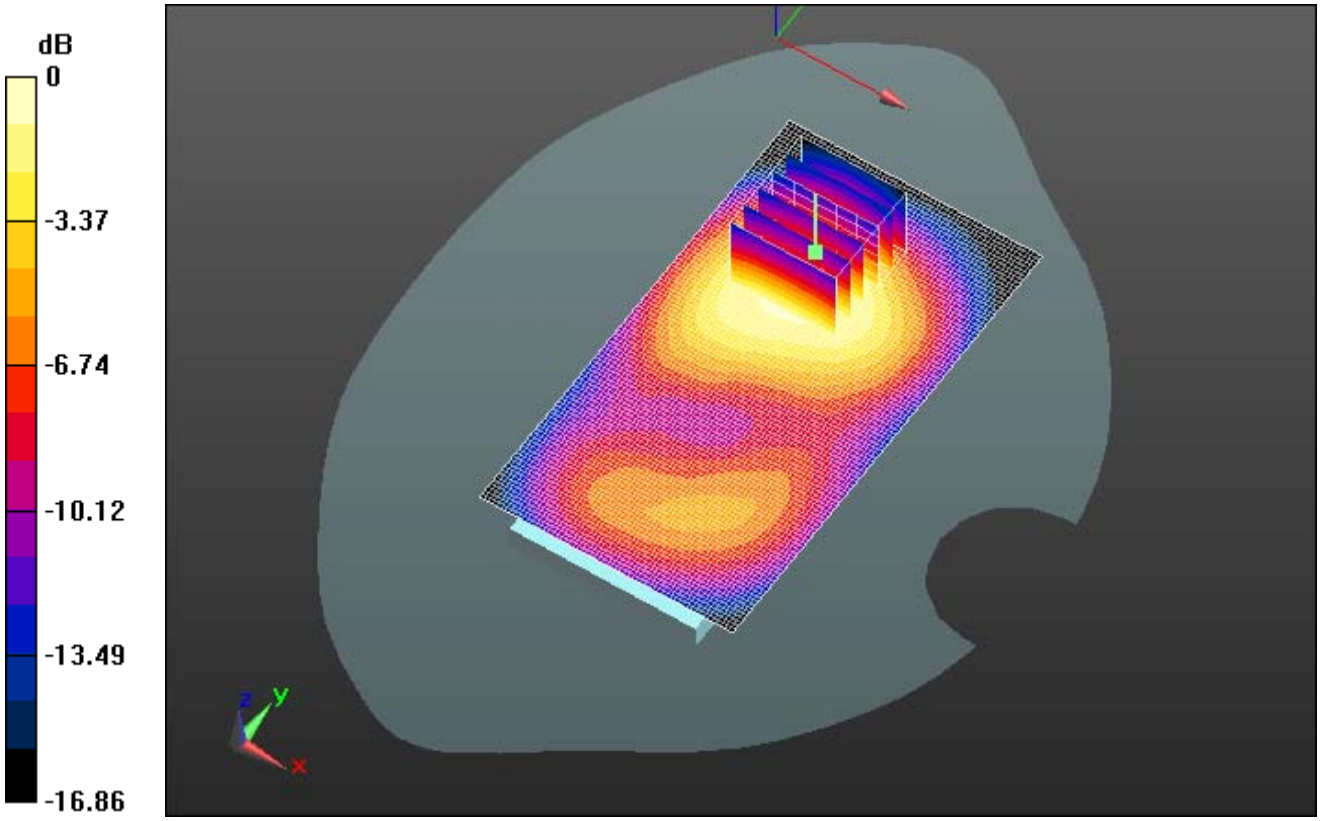

0 dB = 1.800mW/g = 5.11 dB mW/g

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Date/Time: 6/18/2012 9:21:26 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_4_mid_chan_QPSK_BW_20_RB_100_Offset_0_amb_temp_22.6_liq_temp_21.9C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A20270D

Communication System: LTE; Frequency: 1732.5 MHz
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.484 mho/m; ε_r = 50.989; 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) = 1.684 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 11.984 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 2.2910
SAR(1 g) = 1.29 mW/g; SAR(10 g) = 0.764 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.561 mW/g

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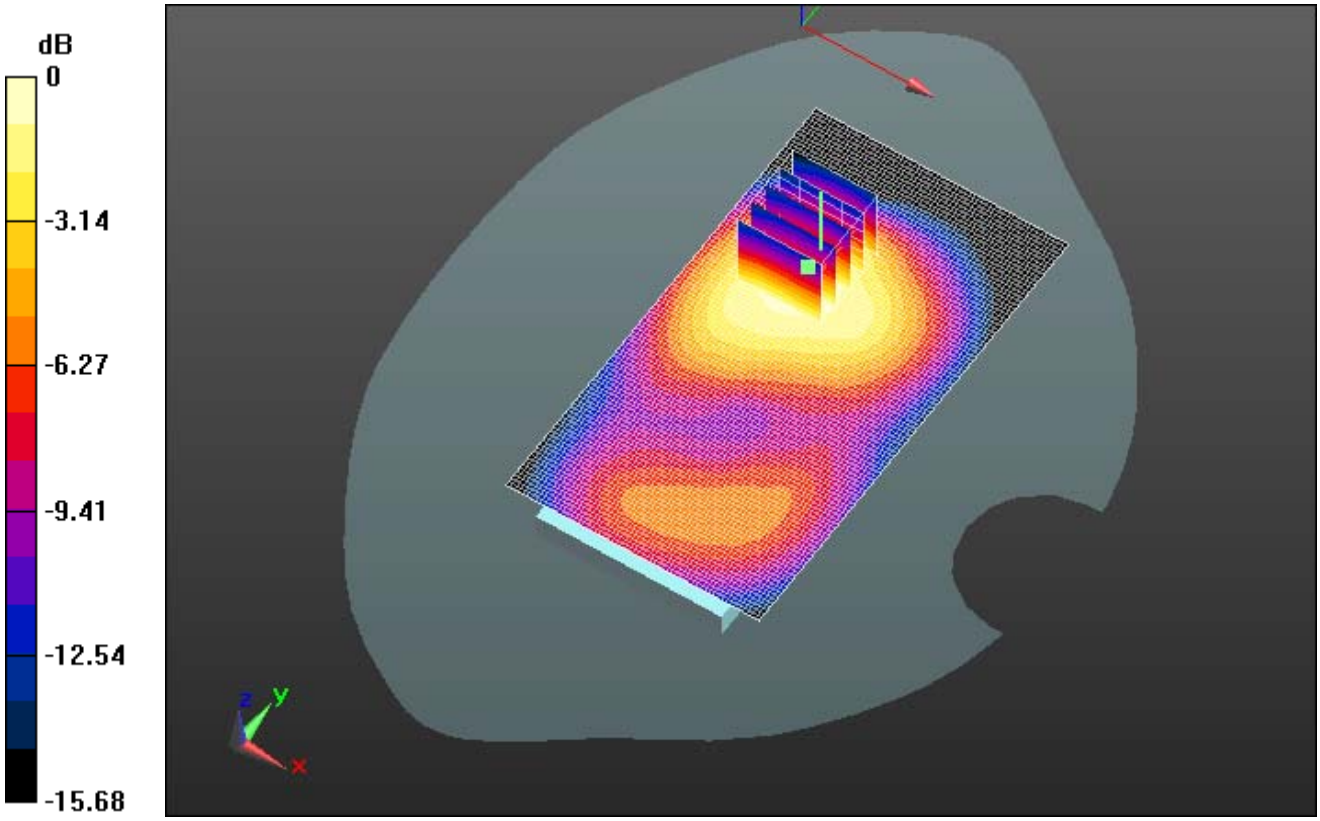

0 dB = 1.560mW/g = 3.86 dB mW/g

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Date/Time: 10/25/2012 9:02:13 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_4_mid_chan_QPSK_RB_1_Offset_0_amb_temp_23.2_liq_temp_21.8C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A8C7018

Communication System: LTE; Frequency: 1732.5 MHz
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.503 mho/m; ε_r = 51.292; 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) = 1.310 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 10.970 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.7540
SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.630 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.216 mW/g

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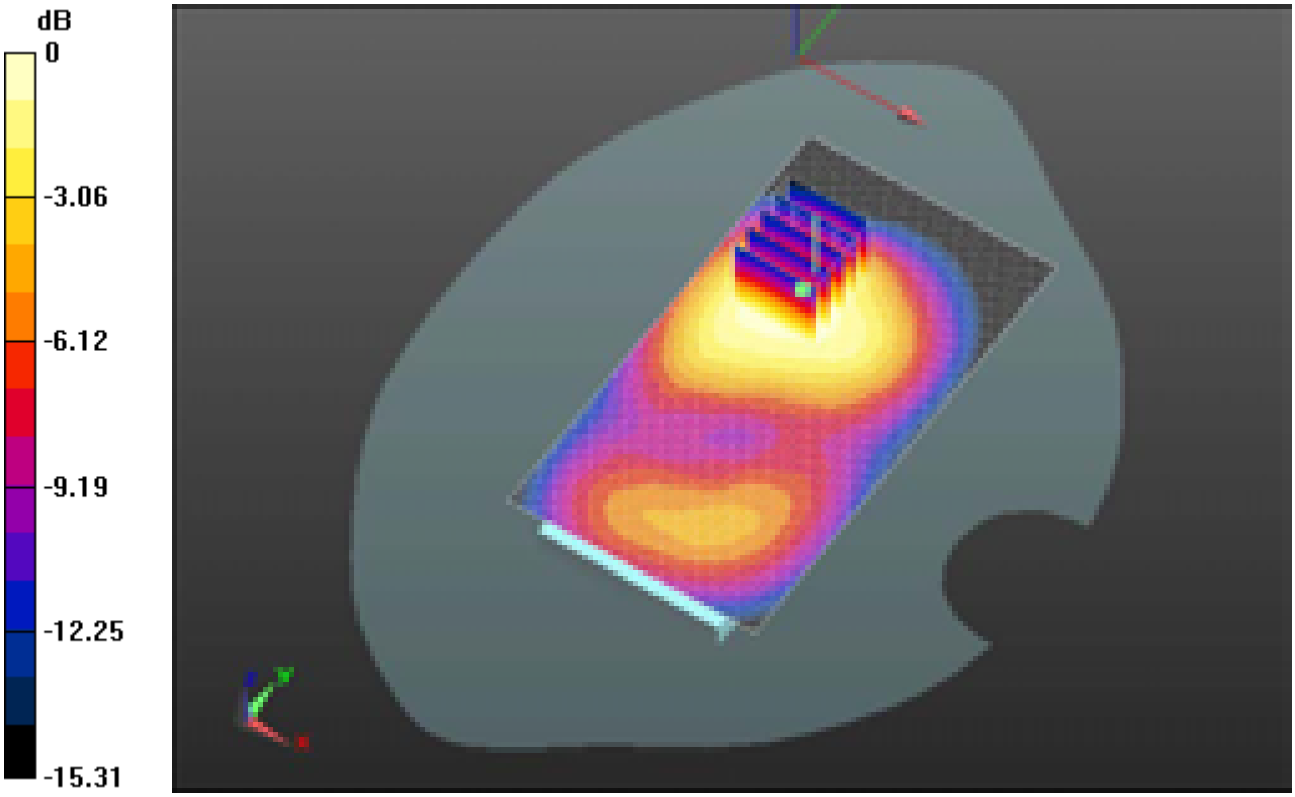

0 dB = 1.220mW/g = 1.73 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_4_mid_chan_QPSK_RB_1_Offset_99_amb_temp_23.2_liq_temp_21.8C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A8C7018

Communication System: LTE; Frequency: 1732.5 MHz
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.503 mho/m; ε_r = 51.292; 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) = 1.243 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 10.678 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 1.7030
SAR(1 g) = 0.977 mW/g; SAR(10 g) = 0.580 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.171 mW/g

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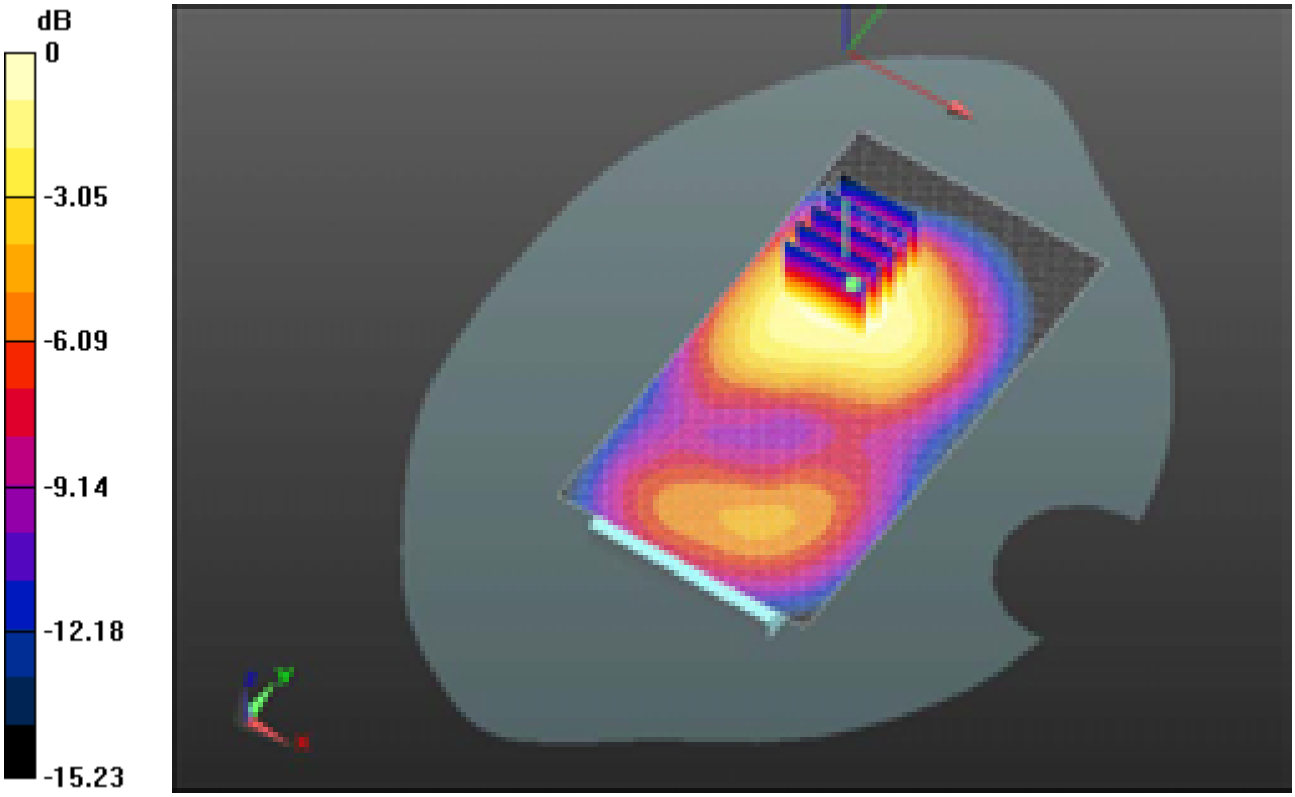

0 dB = 1.170mW/g = 1.36 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_4_mid_chan_QPSK_RB_50_Offset_0_amb_temp_23.2_liq_temp_21.8C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A8C7018

Communication System: LTE; Frequency: 1732.5 MHz
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.503 mho/m; ε_r = 51.292; 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) = 1.315 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 11.023 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.7900
SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.632 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.232 mW/g

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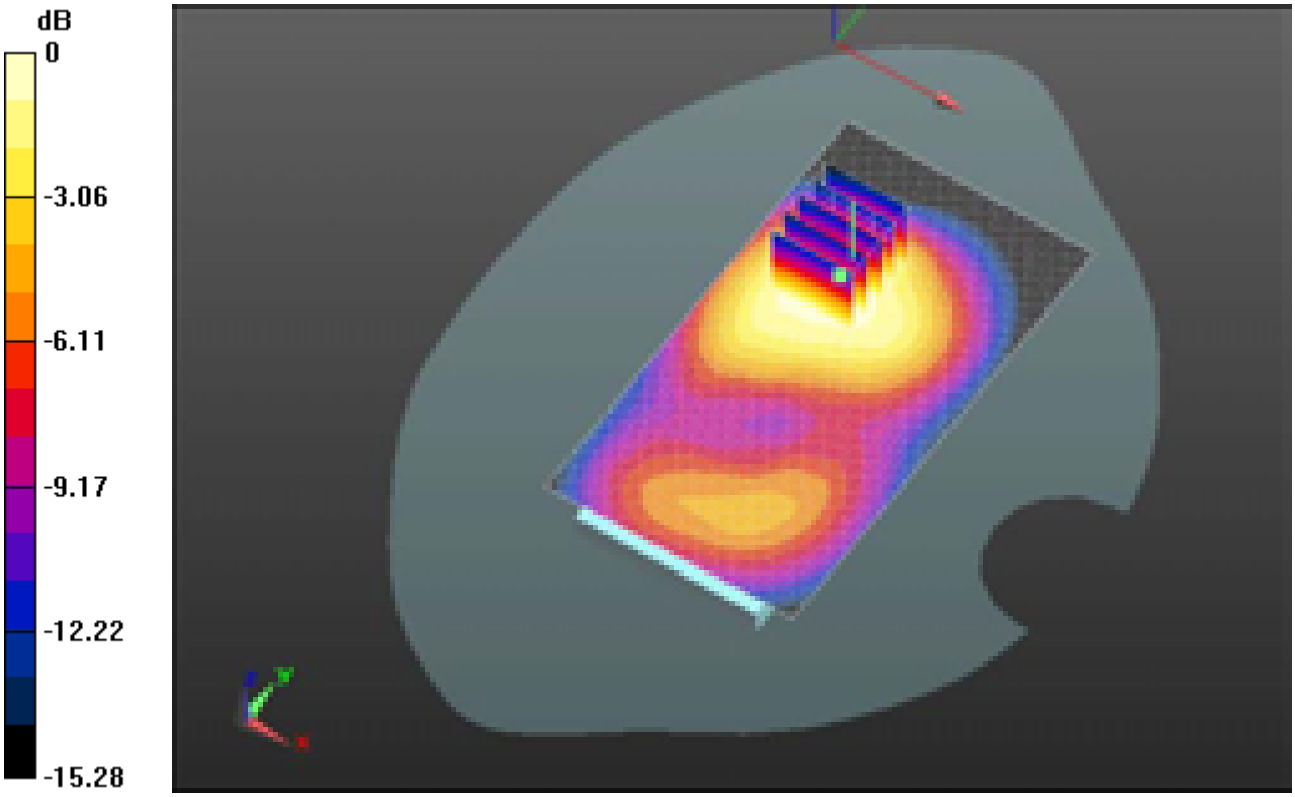

0 dB = 1.230mW/g = 1.80 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_4_mid_chan_16QAM_RB_1_Offset_0_amb_temp_22.9_liq_temp_21.8C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A8C7018

Communication System: LTE; Frequency: 1732.5 MHz
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.503 mho/m; ε_r = 51.292; 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) = 1.347 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 10.849 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 1.8490
SAR(1 g) = 1.08 mW/g; SAR(10 g) = 0.651 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.300 mW/g

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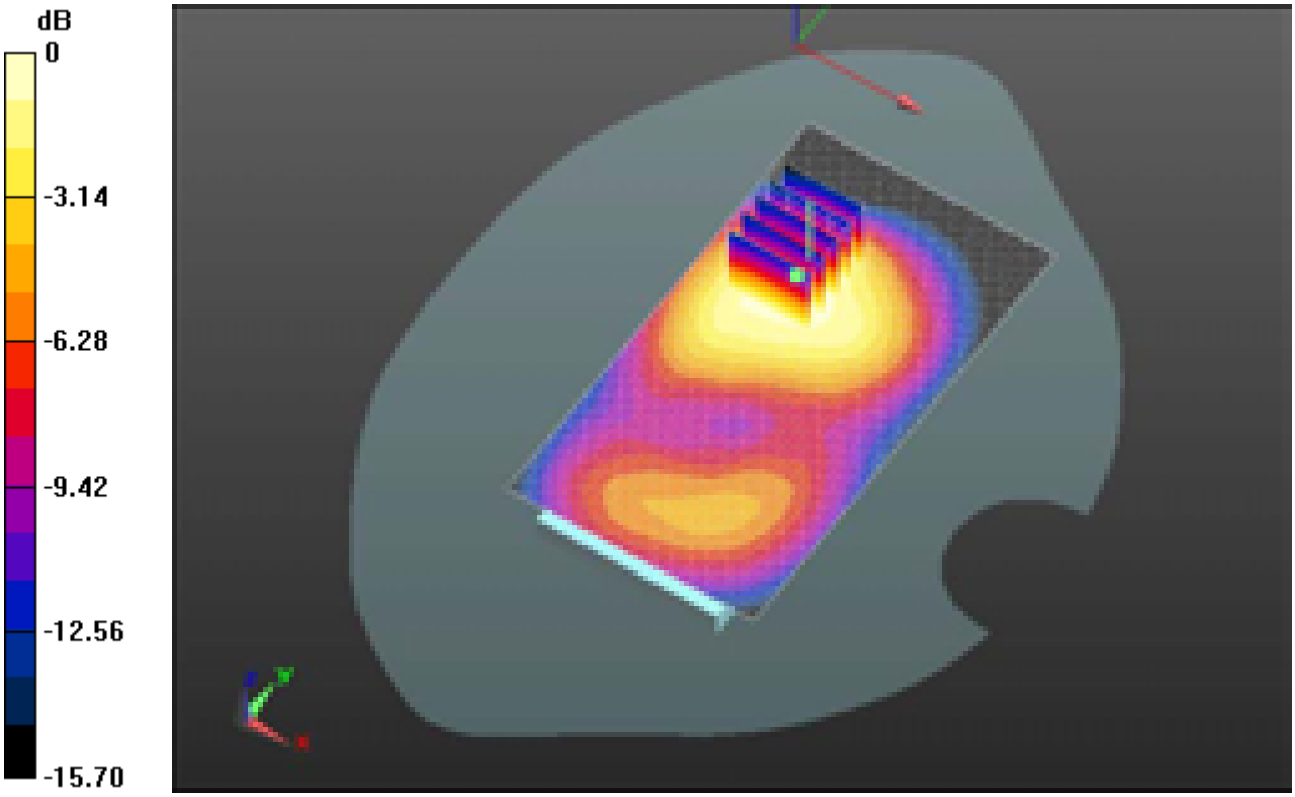

0 dB = 1.300mW/g = 2.28 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_4_mid_chan_16QAM_RB_1_Offset_99_amb_temp_22.9_liq_temp_21.8C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A8C7018

Communication System: LTE; Frequency: 1732.5 MHz
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.503 mho/m; ε_r = 51.292; 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) = 1.277 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 10.714 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.7820
SAR(1 g) = 1.06 mW/g; SAR(10 g) = 0.630 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.248 mW/g

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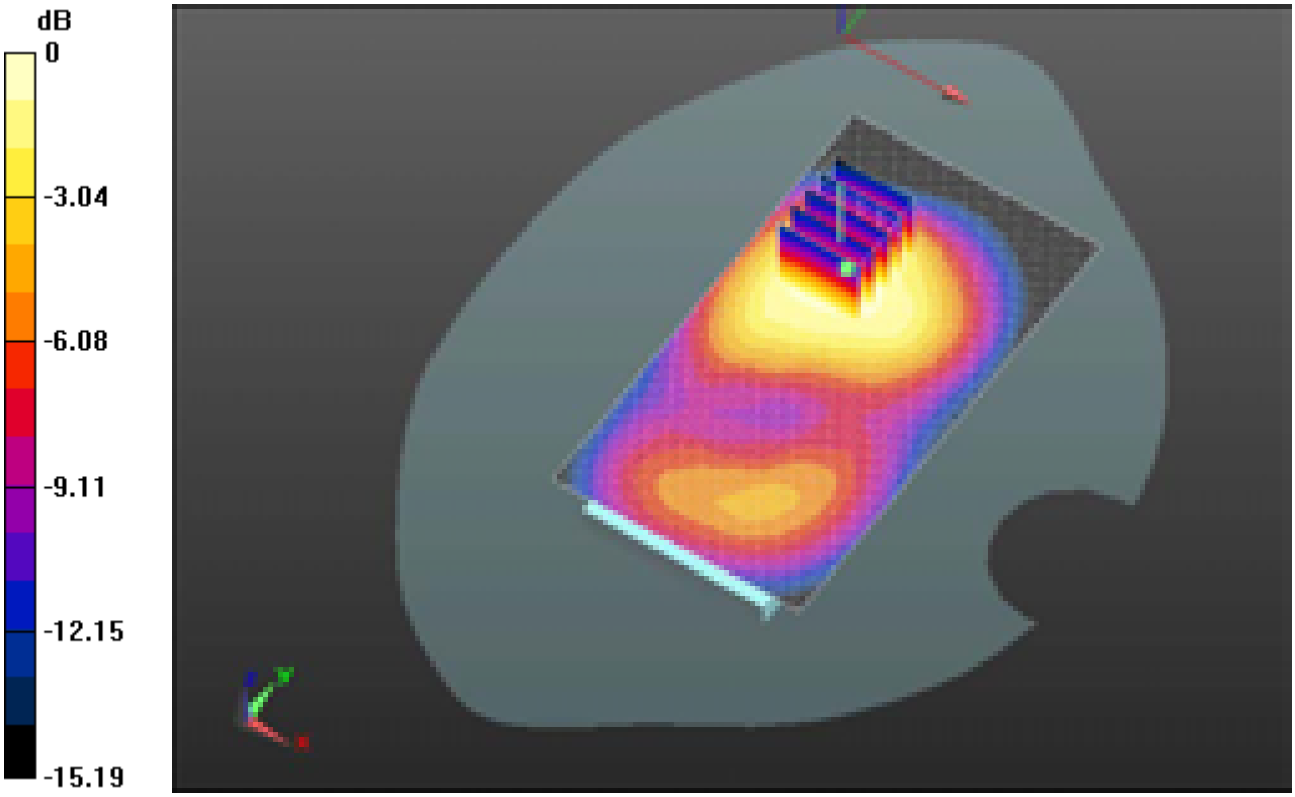

0 dB = 1.250mW/g = 1.94 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_4_mid_chan_16QAM_RB_75_Offset_0_amb_temp_23.2_liq_temp_21.8C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A8C7018

Communication System: LTE; Frequency: 1732.5 MHz
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.503 mho/m; ε_r = 51.292; 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) = 1.283 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 10.901 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 1.8160
SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.622 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.240 mW/g

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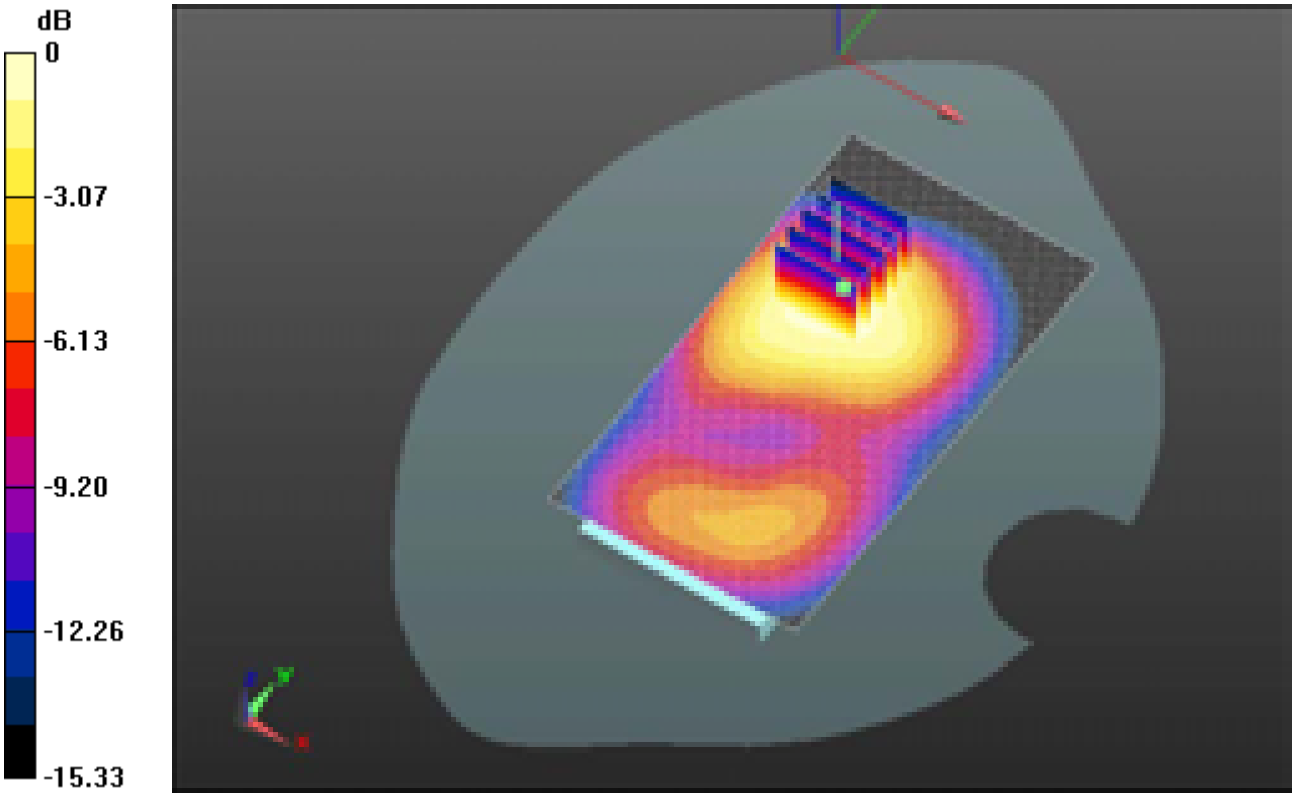

0 dB = 1.240mW/g = 1.87 dB mW/g

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Date/Time: 10/26/2012 1:43:14 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_4_low_chan_16QAM_RB_1_Offset_0_amb_temp_22.9_liq_temp_21.8C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A8C7018

Communication System: LTE 1800_Band 4; Frequency: 1720 MHz
Medium parameters used: f = 1720 MHz; σ = 1.494 mho/m; ε_r = 51.296; 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) = 1.332 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 10.930 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 1.8060
SAR(1 g) = 1.06 mW/g; SAR(10 g) = 0.638 mW/g
Maximum value of SAR (measured) = 1.229 mW/g

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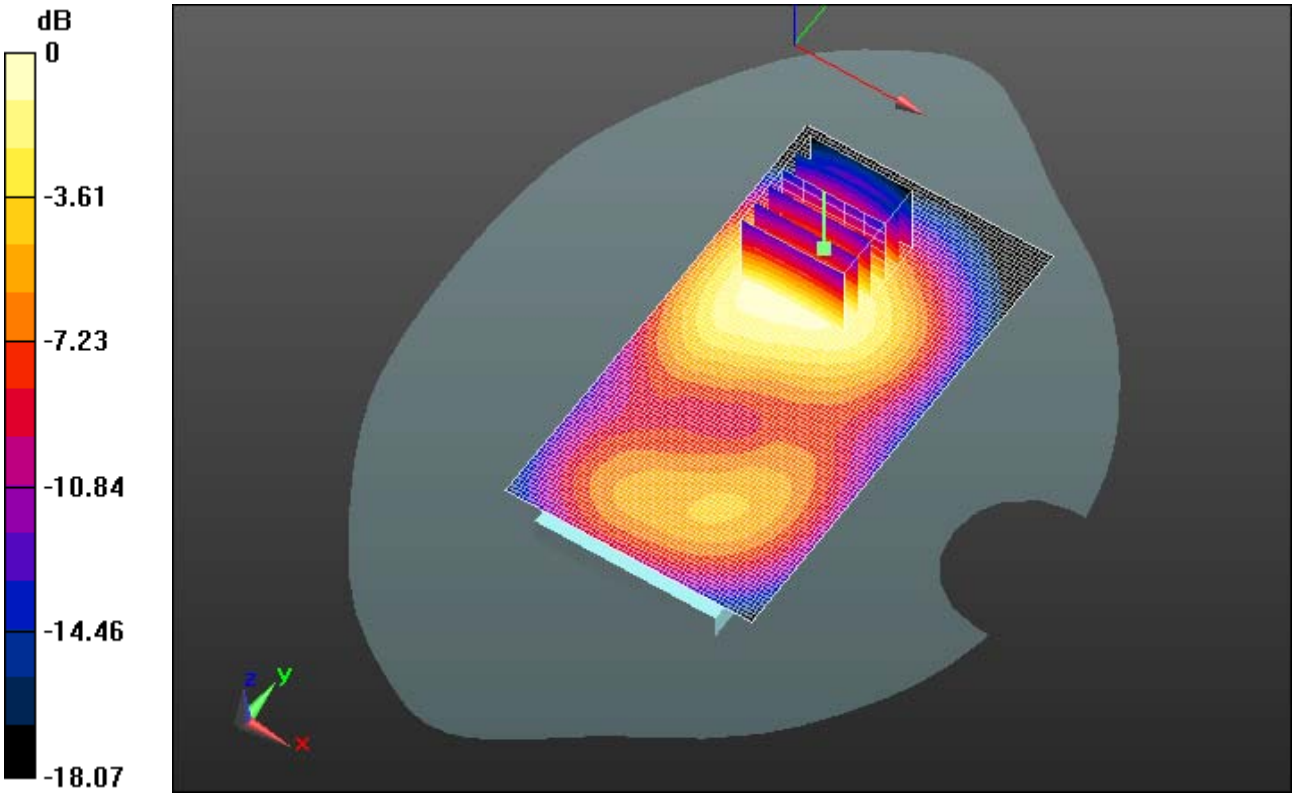

0 dB = 1.230mW/g = 1.80 dB mW/g

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Date/Time: 10/26/2012 2:05:51 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_4_high_chan_16QAM_RB_1_Offset_0_amb_temp_22.8_liq_temp_21.8C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A8C7018

Communication System: LTE 1800_Band 4; Frequency: 1749 MHz
Medium parameters used (interpolated): f = 1749 MHz; σ = 1.522 mho/m; ε_r = 51.297; 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) = 1.232 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 10.047 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.5970
SAR(1 g) = 0.944 mW/g; SAR(10 g) = 0.555 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.141 mW/g

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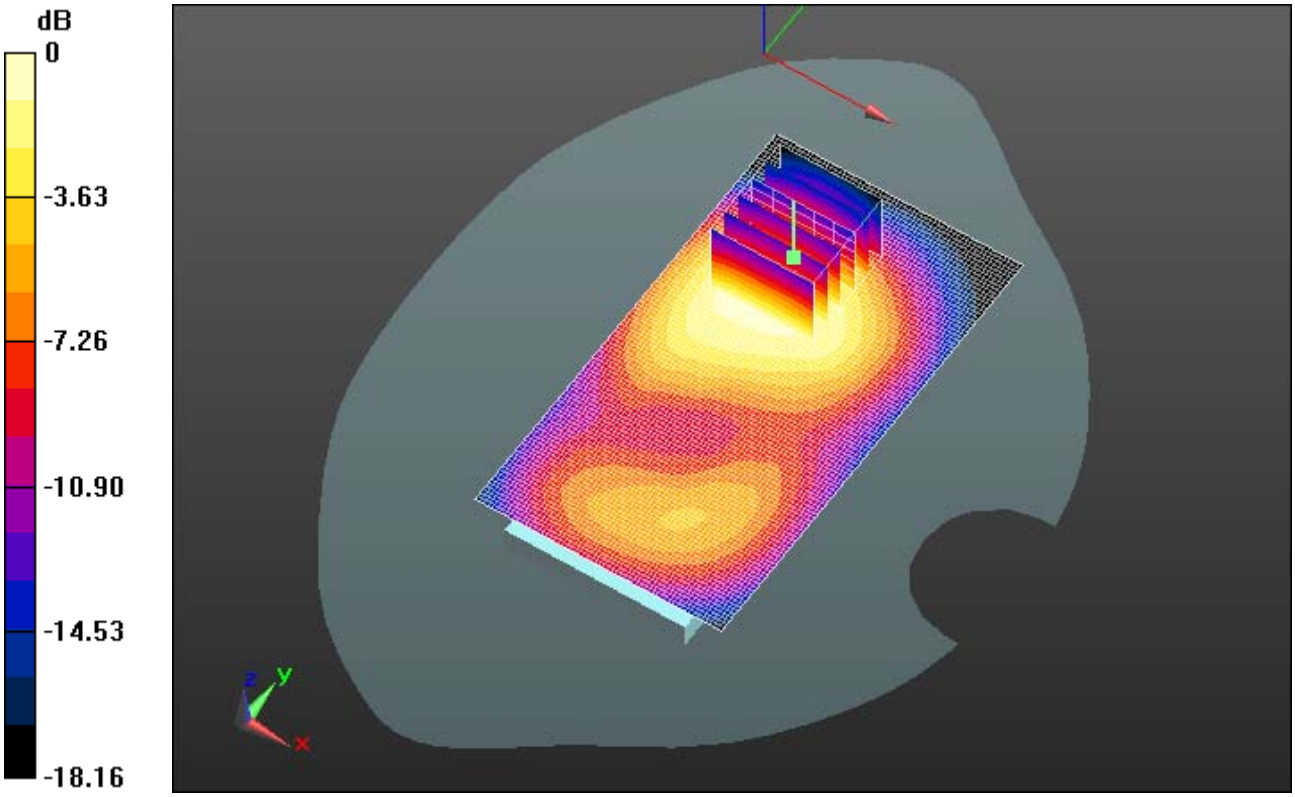

0 dB = 1.140mW/g = 1.14 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Left_LTE_4_mid_chan_16QAM_RB_1_Offset_0_amb_temp_22.9_liq_temp_22.2C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A8C7018

Communication System: LTE 1800_Band 4; Frequency: 1732.5 MHz
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.503 mho/m; ε_r = 51.292; 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

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.574 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 14.525 V/m; Power Drift = 0.19 dB
Peak SAR (extrapolated) = 0.7510
SAR(1 g) = 0.450 mW/g; SAR(10 g) = 0.258 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.546 mW/g

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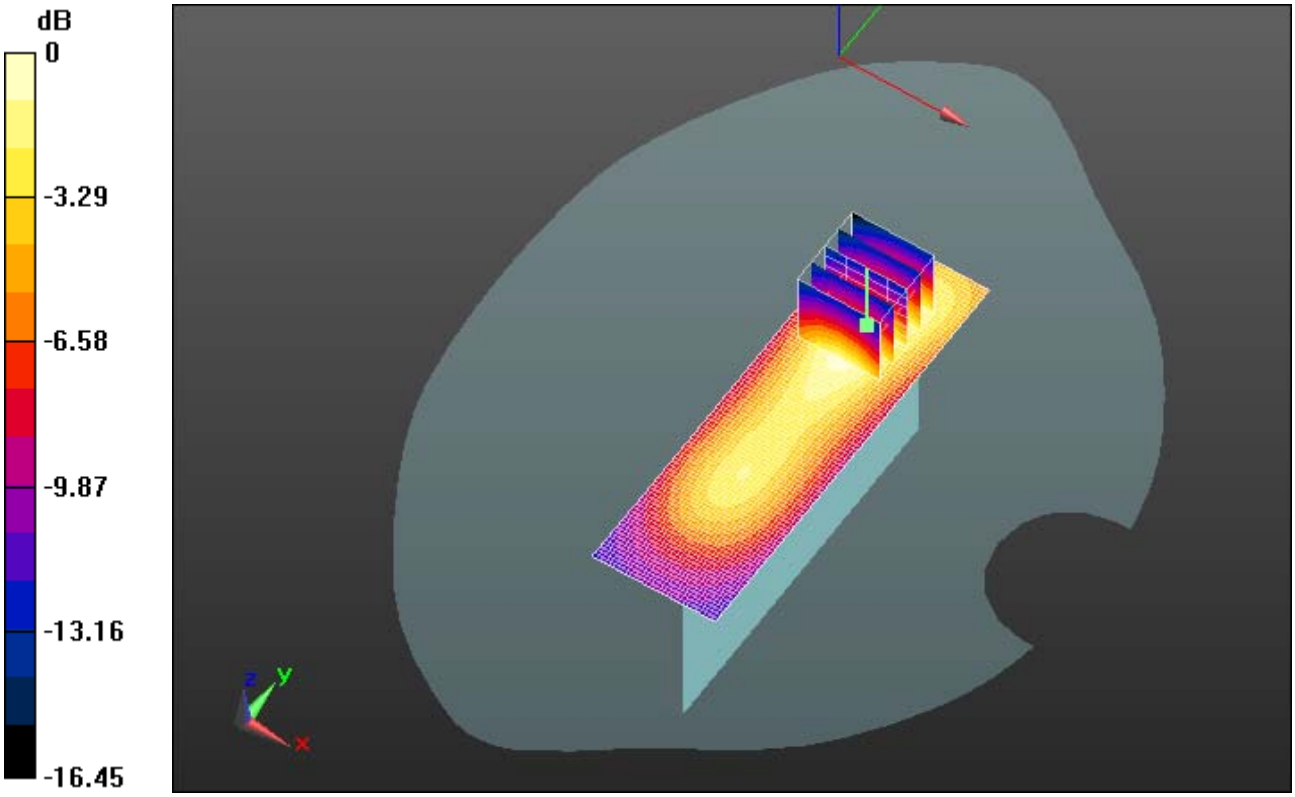

0 dB = 0.550mW/g = -5.19 dB mW/g

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Date/Time: 10/26/2012 2:07:54 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Right_LTE_4_mid_chan_16QAM_RB_1_Offset_0

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A8C7018

Communication System: LTE 1800_Band 4; Frequency: 1732.5 MHz
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.503 mho/m; ε_r = 51.292; 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

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.273 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 10.525 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.3560
SAR(1 g) = 0.221 mW/g; SAR(10 g) = 0.130 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.266 mW/g

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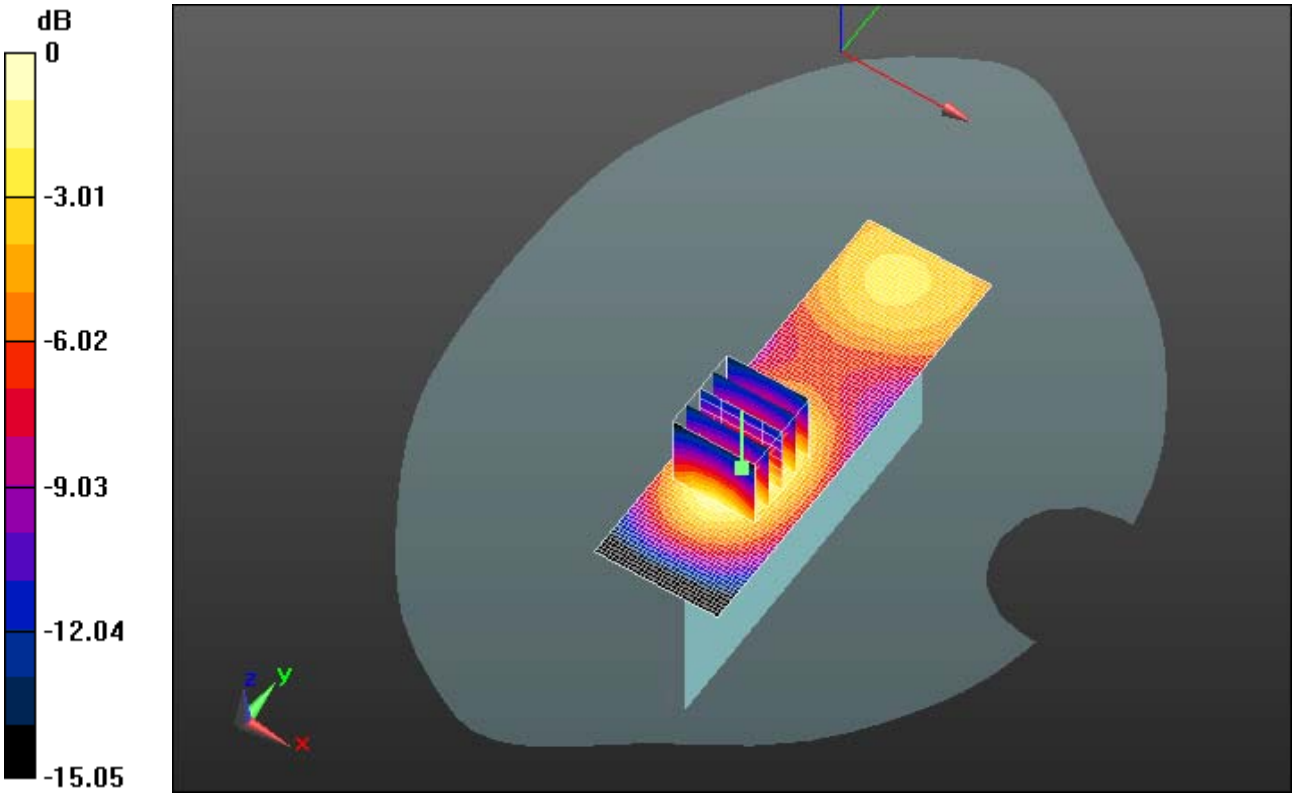

0 dB = 0.270mW/g = -11.37 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Bottom_LTE_4_mid_chan_16QAM_RB_1_Offset_0_amb_temp_22.9_liq_temp_22.4C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A8C7018

Communication System: LTE Band 4; Frequency: 1732.6 MHz
Medium parameters used (interpolated): f = 1732.6 MHz; σ = 1.503 mho/m; ε_r = 51.29; 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) = 0.596 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 19.646 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.8490
SAR(1 g) = 0.502 mW/g; SAR(10 g) = 0.283 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.621 mW/g

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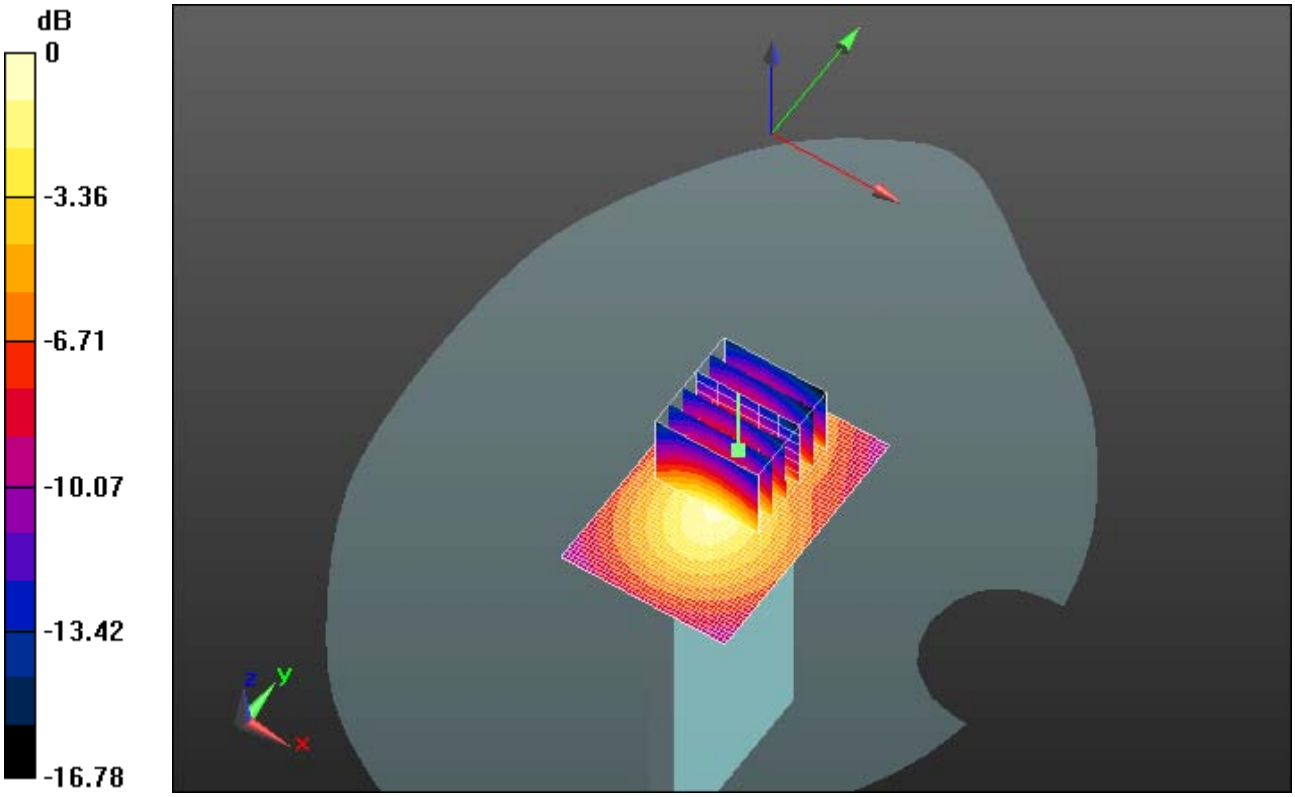

0 dB = 0.620mW/g = -4.15 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_HS_Back_LTE_4_mid_chan_16QAM_RB_1_Offset_0_amb_temp_22.9_liq_temp_21.8C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A8C7018

Communication System: LTE; Frequency: 1732.5 MHz
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.503 mho/m; ε_r = 51.292; 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) = 1.414 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 10.613 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 1.8830
SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.662 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.322 mW/g

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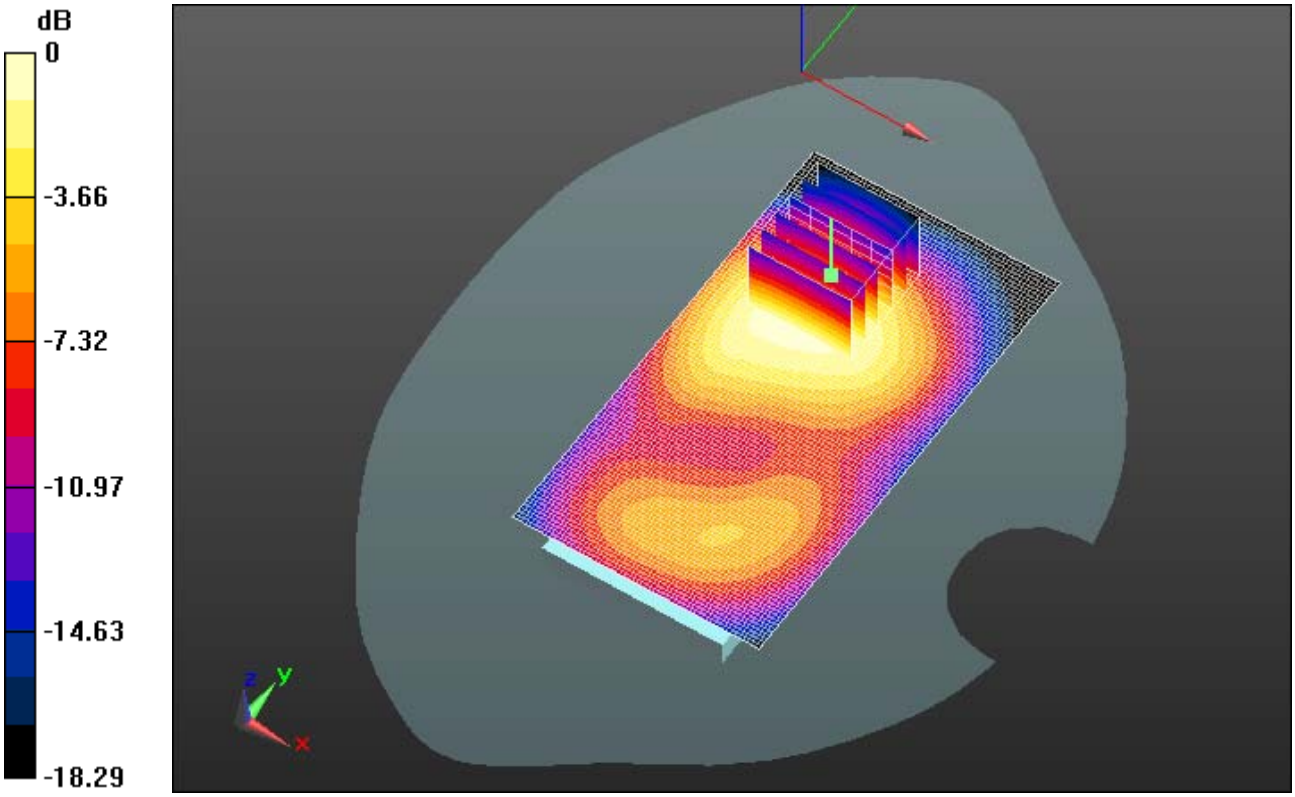

0 dB = 1.320mW/g = 2.41 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_2_mid_chan_QPSK_RB_1_Offset_0_Amb_temp_23.0_liq_temp_21.4C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A211C01

Communication System: LTE ; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.523 mho/m; ε_r = 50.843; 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) = 1.688 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 17.623 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 2.4260
SAR(1 g) = 1.36 mW/g; SAR(10 g) = 0.708 mW/g
Maximum value of SAR (measured) = 1.675 mW/g

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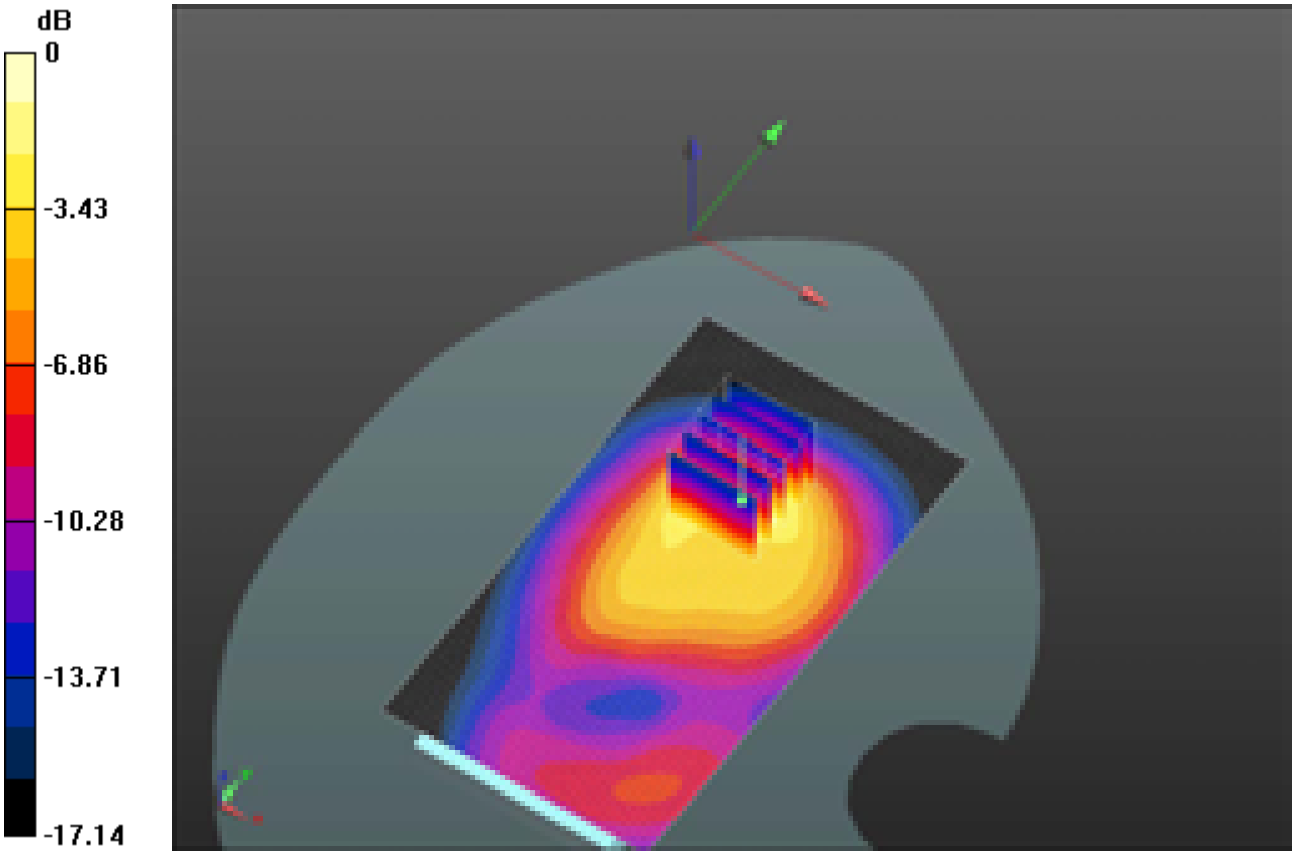

0 dB = 1.680mW/g = 4.51 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_2_mid_chan_QPSK_RB_1_Offset_99_amb_temp_23.1_liq_temp_21.7C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A211C01

Communication System: LTE ; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.523 mho/m; ε_r = 50.843; 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) = 1.665 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 17.425 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 2.3780
SAR(1 g) = 1.33 mW/g; SAR(10 g) = 0.690 mW/g
Maximum value of SAR (measured) = 1.650 mW/g

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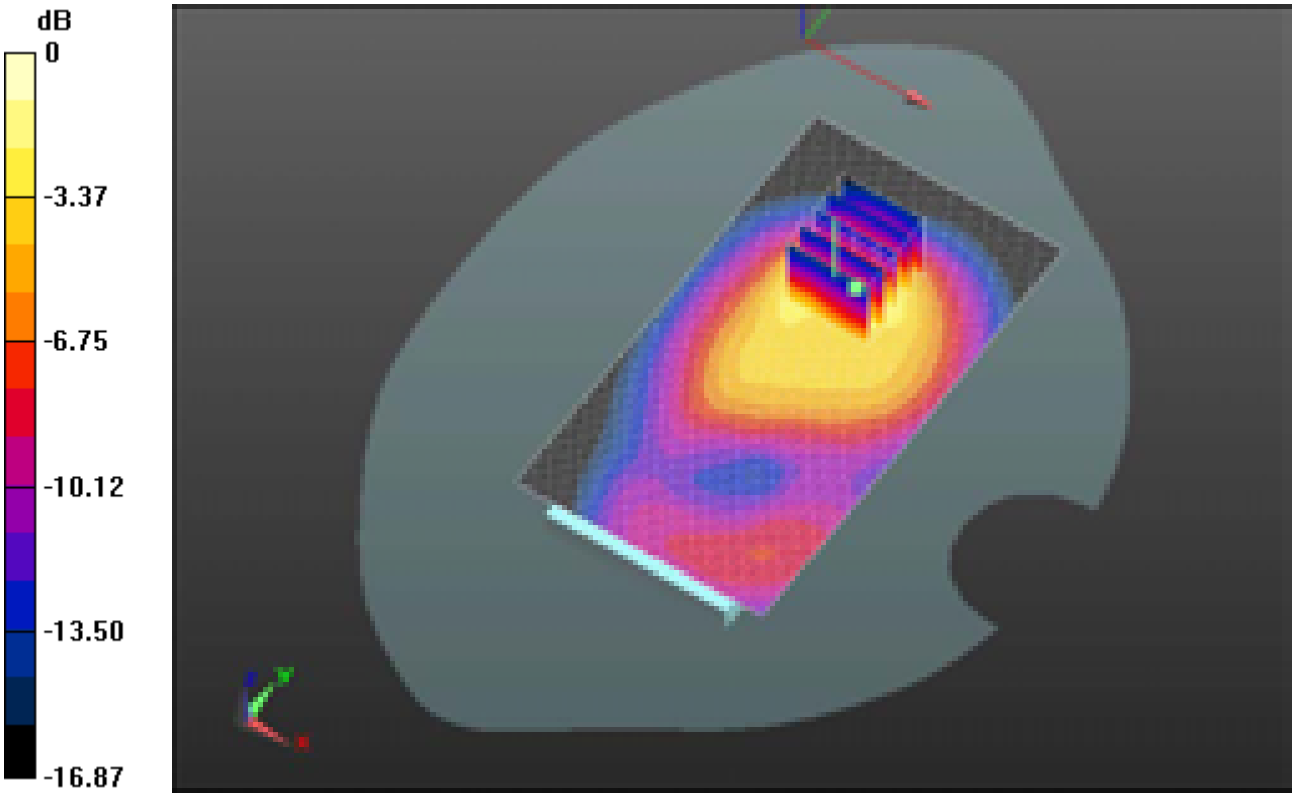

0 dB = 1.650mW/g = 4.35 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_2_mid_chan_QPSK_RB_50_Offset_0_amb_temp_23.1_liq_temp_21.8C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A211C01

Communication System: LTE ; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.523 mho/m; ε_r = 50.843; 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) = 1.443 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 16.359 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 2.0630
SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.604 mW/g
Maximum value of SAR (measured) = 1.413 mW/g

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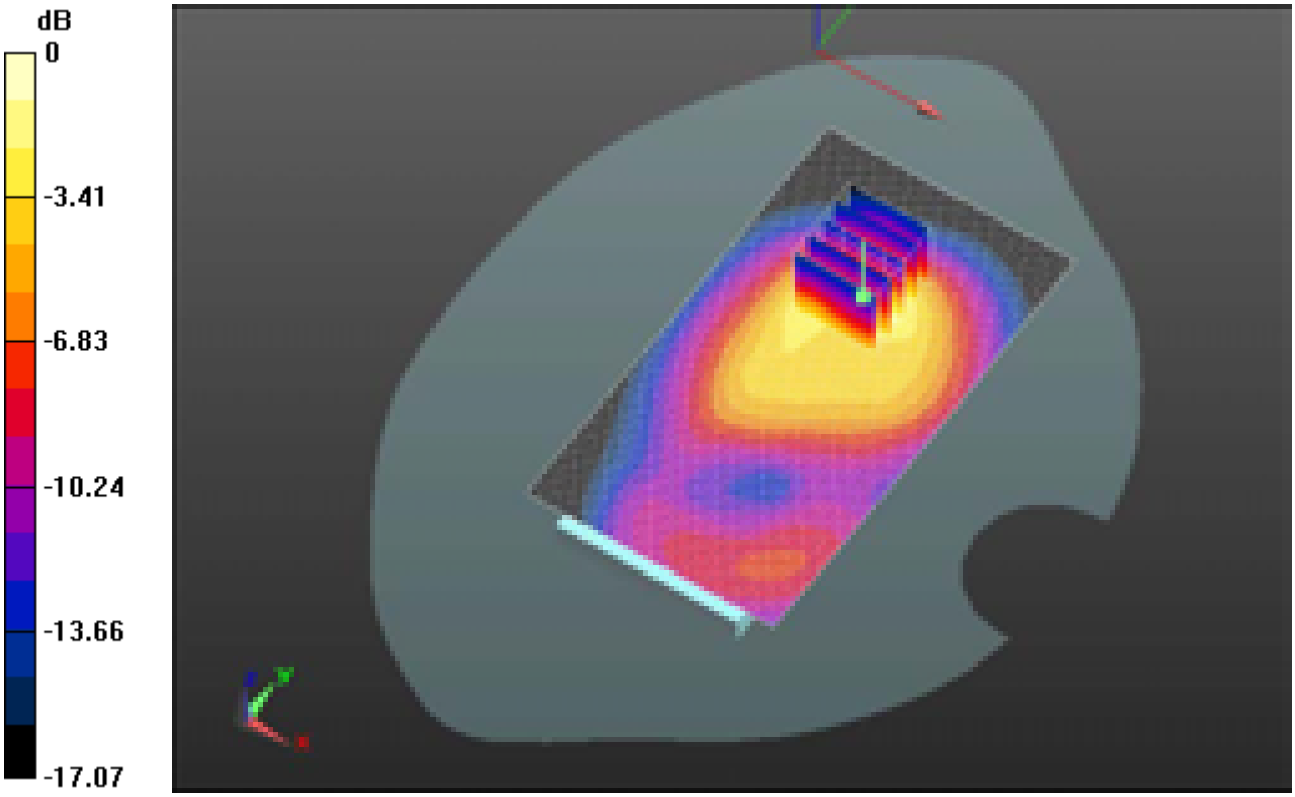

0 dB = 1.410mW/g = 2.98 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_2_mid_chan_16QAM_RB_1_Offset_0_amb_temp_23.1_liq_temp_21.4C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A211C01

Communication System: LTE; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.523 mho/m; ε_r = 50.843; 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) = 1.307 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 8.833 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 1.6790
SAR(1 g) = 0.973 mW/g; SAR(10 g) = 0.512 mW/g
Maximum value of SAR (measured) = 1.232 mW/g

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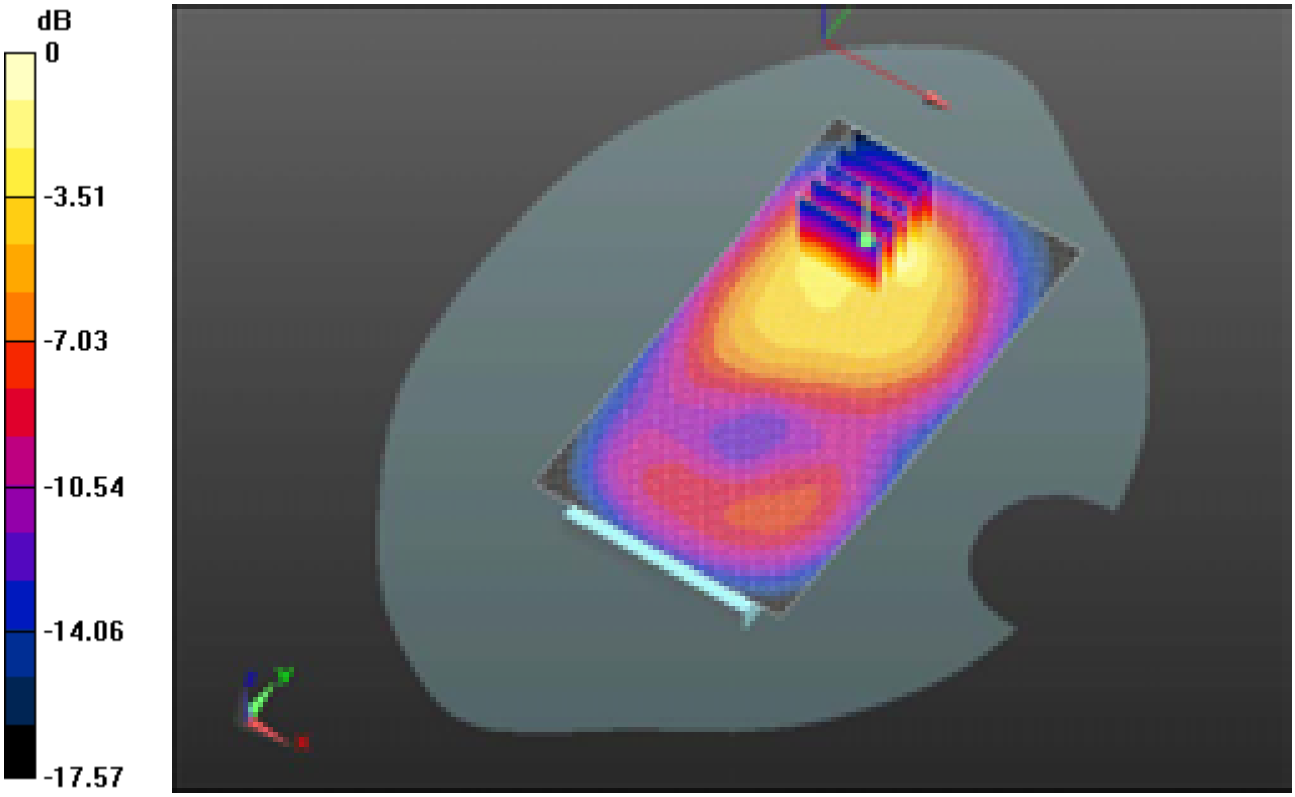

0 dB = 1.230mW/g = 1.80 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_2_mid_chan_16QAM_RB_1_Offset_99_amb_temp_22.8_liq_temp_21.4C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A211C01

Communication System: LTE; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.523 mho/m; ε_r = 50.843; 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) = 1.453 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 8.854 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 2.0670
SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.569 mW/g
Maximum value of SAR (measured) = 1.422 mW/g

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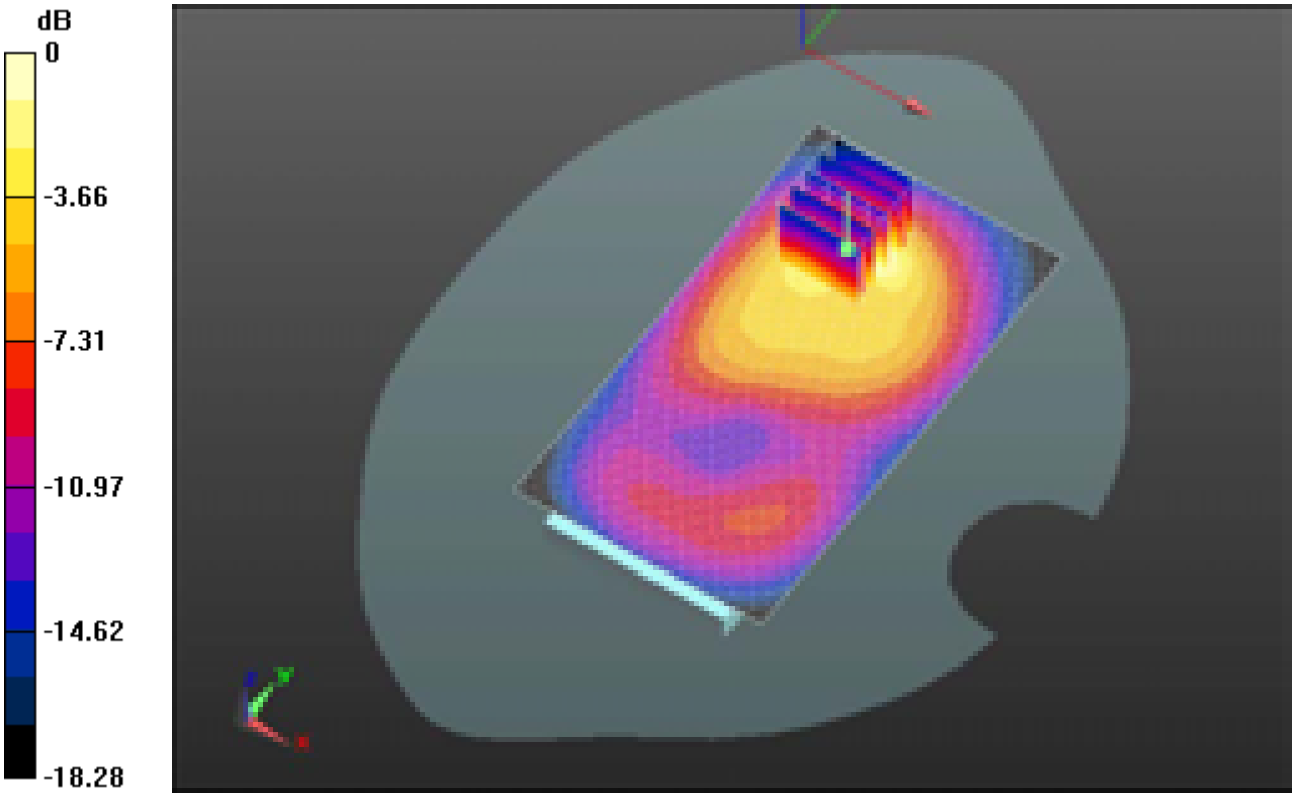

0 dB = 1.420mW/g = 3.05 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_2_mid_chan_16QAM_RB_75_Offset_0_amb_temp_22.6_liq_temp_21.4C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A211C01

Communication System: LTE; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.523 mho/m; ε_r = 50.843; 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) = 1.031 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 9.034 V/m; Power Drift = -0.0036 dB
Peak SAR (extrapolated) = 1.4220
SAR(1 g) = 0.799 mW/g; SAR(10 g) = 0.424 mW/g
Maximum value of SAR (measured) = 1.025 mW/g

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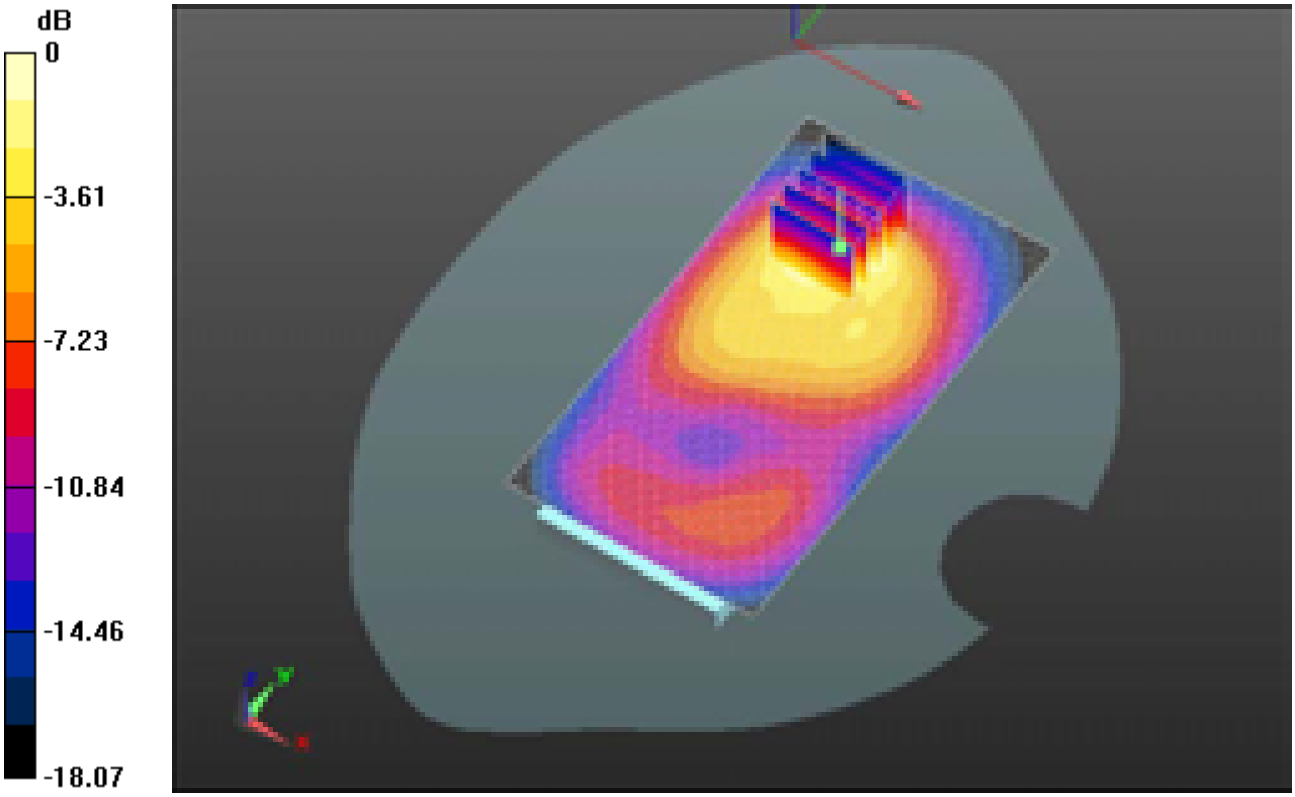

0 dB = 1.020mW/g = 0.17 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_2_low_chan_QPSK_RB_1_Offset_0_amb_temp_23.0_liq_temp_21.4C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A211C01

Communication System: LTE; Frequency: 1860 MHz
Medium parameters used: f = 1860 MHz; σ = 1.499 mho/m; ε_r = 50.873; 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) = 1.353 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 16.568 V/m; Power Drift = -0.23 dB
Peak SAR (extrapolated) = 1.9480
SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.584 mW/g
Maximum value of SAR (measured) = 1.300 mW/g

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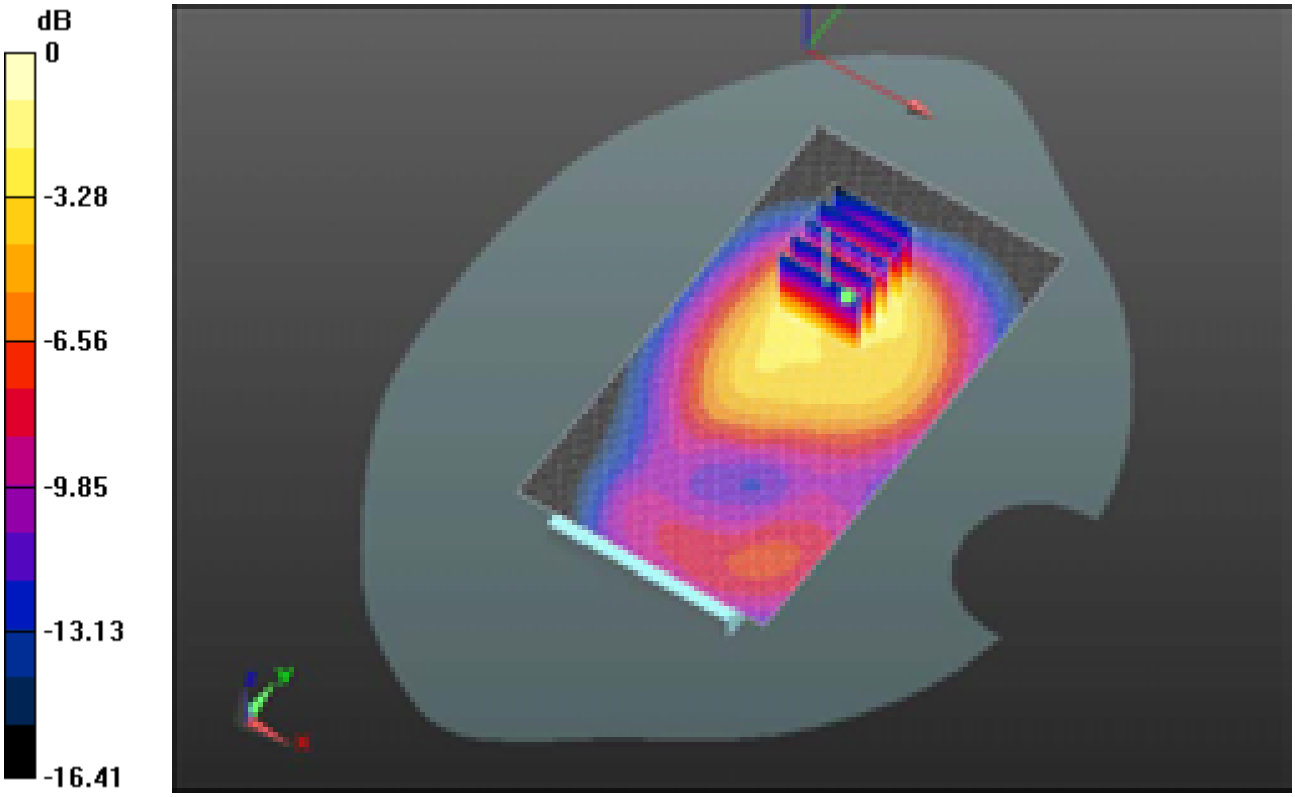

0 dB = 1.300mW/g = 2.28 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_2_high_chan_QPSK_RB_1_Offset_0_amb_temp_23.1_liq_temp_21.4C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A211C01

Communication System: LTE; Frequency: 1900 MHz
Medium parameters used: f = 1900 MHz; σ = 1.547 mho/m; ε_r = 50.764; 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) = 1.691 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 9.546 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 2.2950
SAR(1 g) = 1.26 mW/g; SAR(10 g) = 0.641 mW/g
Maximum value of SAR (measured) = 1.604 mW/g

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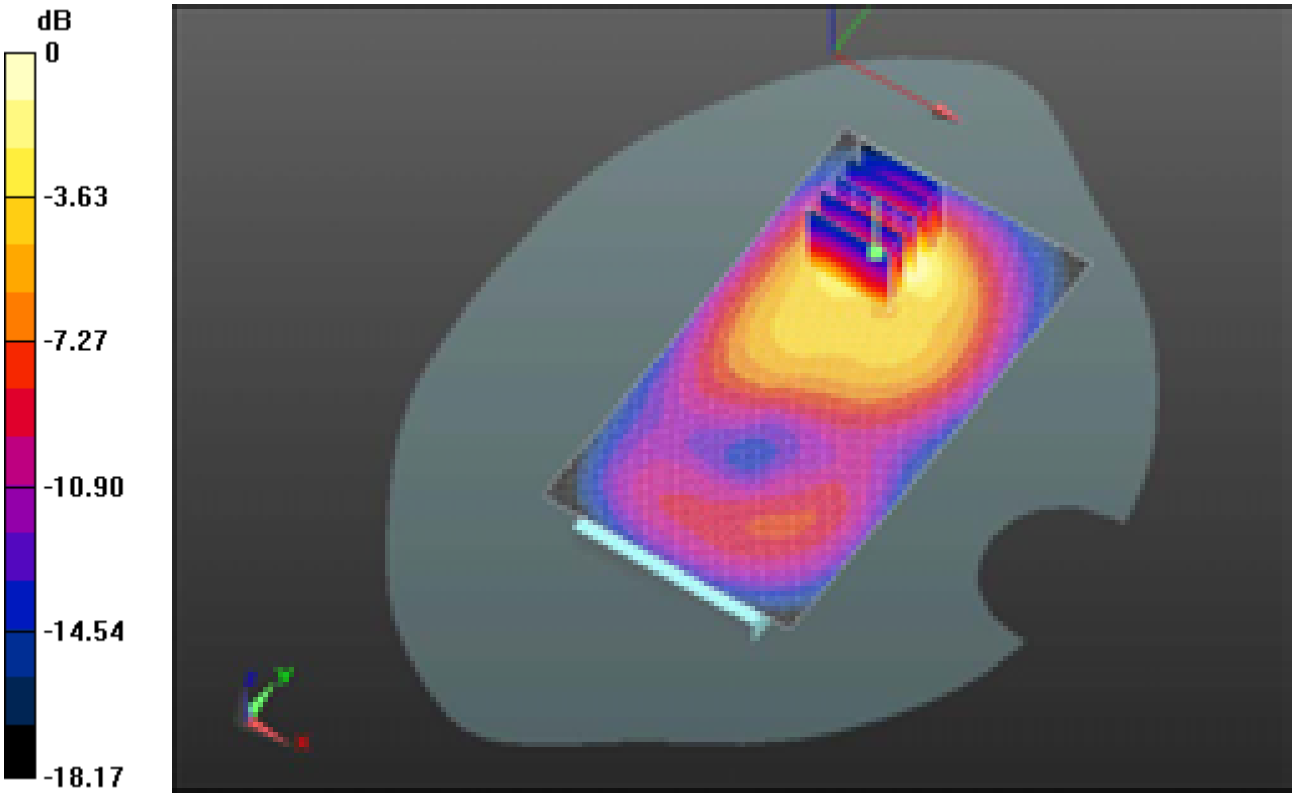

0 dB = 1.600mW/g = 4.08 dB mW/g

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Date/Time: 6/11/2012 10:27:49 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Front_LTE_2_mid_chan_QPSK_RB_1_Offset_0_amb_temp_22.8_liq_temp_21.4C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A211C01

Communication System: LTE; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.523 mho/m; ε_r = 50.843; 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) = 0.661 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 8.385 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.8420
SAR(1 g) = 0.537 mW/g; SAR(10 g) = 0.321 mW/g
Maximum value of SAR (measured) = 0.624 mW/g

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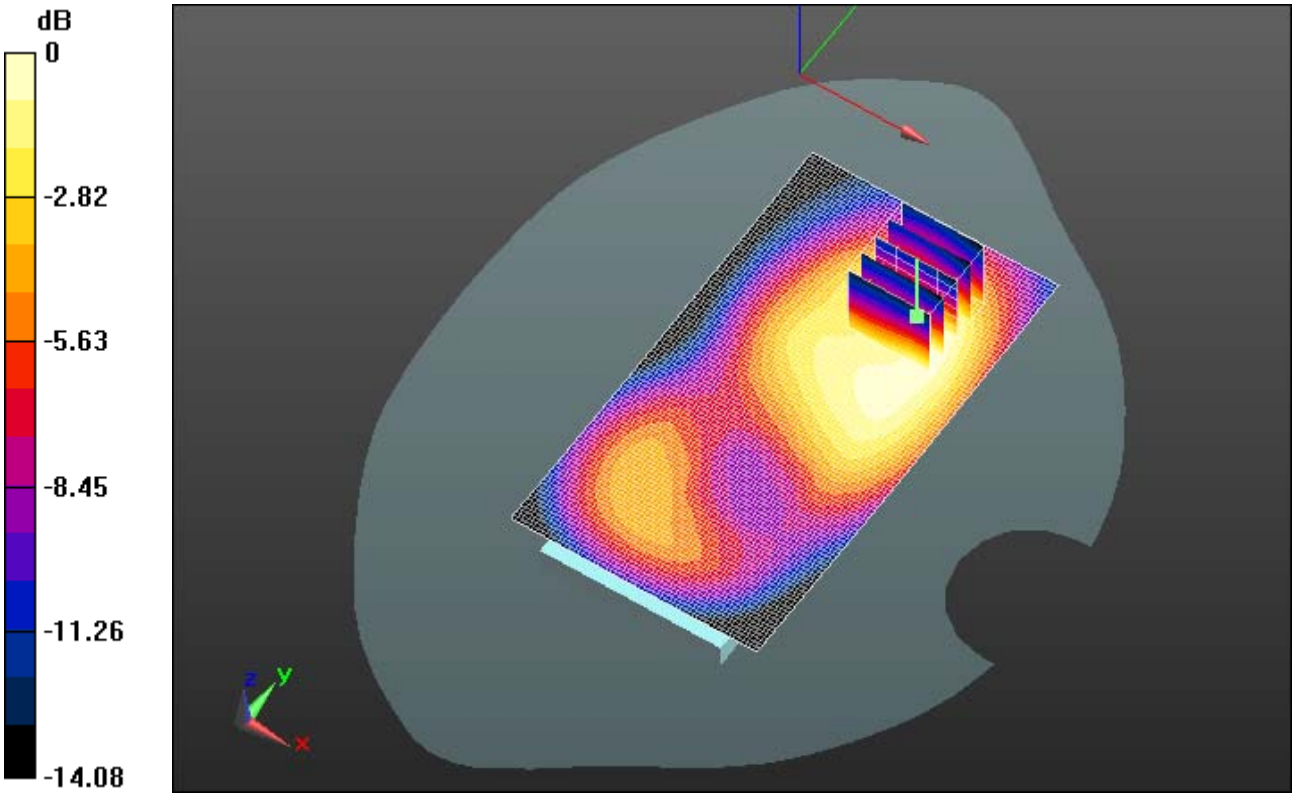

0 dB = 0.620mW/g = -4.15 dB mW/g

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Date/Time: 6/12/2012 1:00:31 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Left_LTE_2_mid_chan_QPSK_RB_1_Offset_0_amb_temp_22.7_liq_temp_21.5C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A20270D

Communication System: LTE; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.523 mho/m; ε_r = 50.843; 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) = 0.427 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 12.343 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.5720
SAR(1 g) = 0.339 mW/g; SAR(10 g) = 0.190 mW/g
Maximum value of SAR (measured) = 0.415 mW/g

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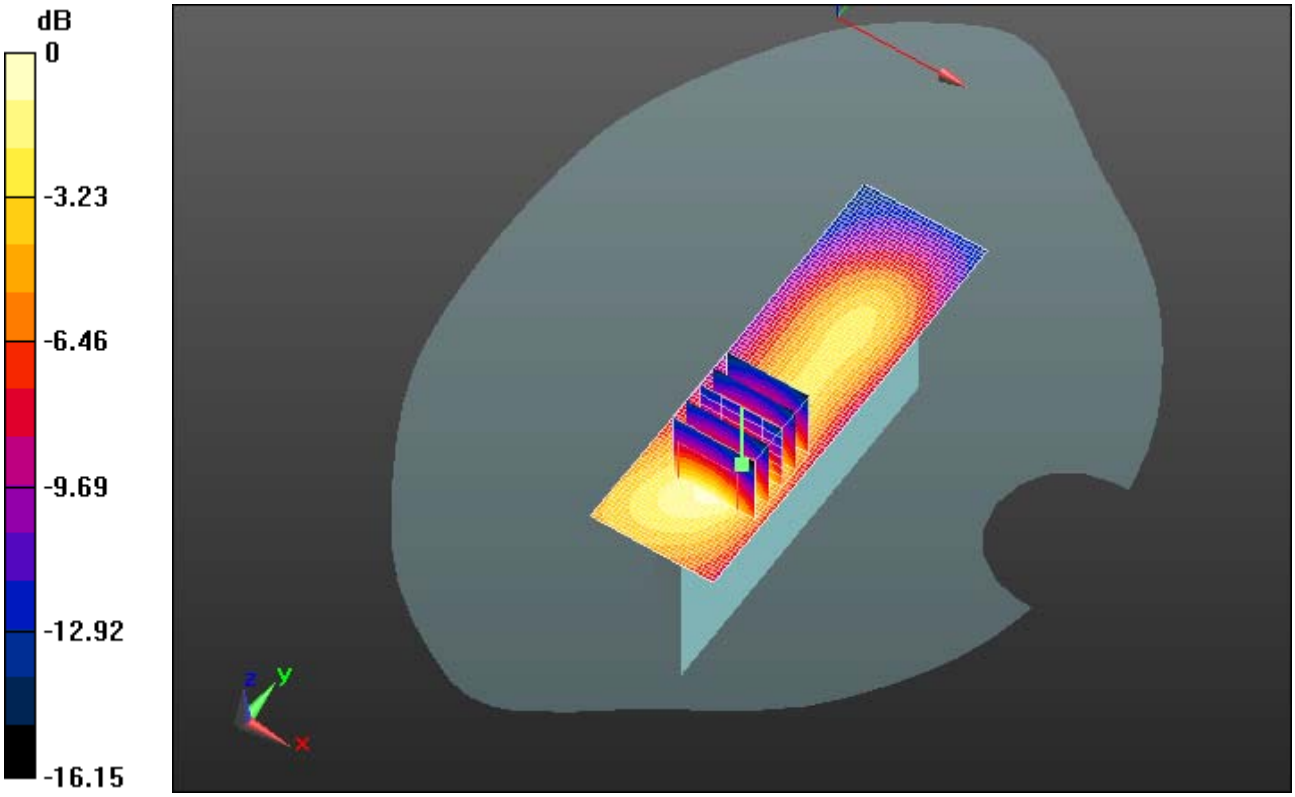

0 dB = 0.410mW/g = -7.74 dB mW/g

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Date/Time: 6/12/2012 1:13:46 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Right_LTE_2_mid_chan_QPSK_RB_1_Offset_0_amb_temp_23.1_liq_temp_21.5C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A20270D

Communication System: LTE; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.523 mho/m; ε_r = 50.843; 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) = 0.210 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 10.233 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.2790
SAR(1 g) = 0.174 mW/g; SAR(10 g) = 0.100 mW/g
Maximum value of SAR (measured) = 0.211 mW/g

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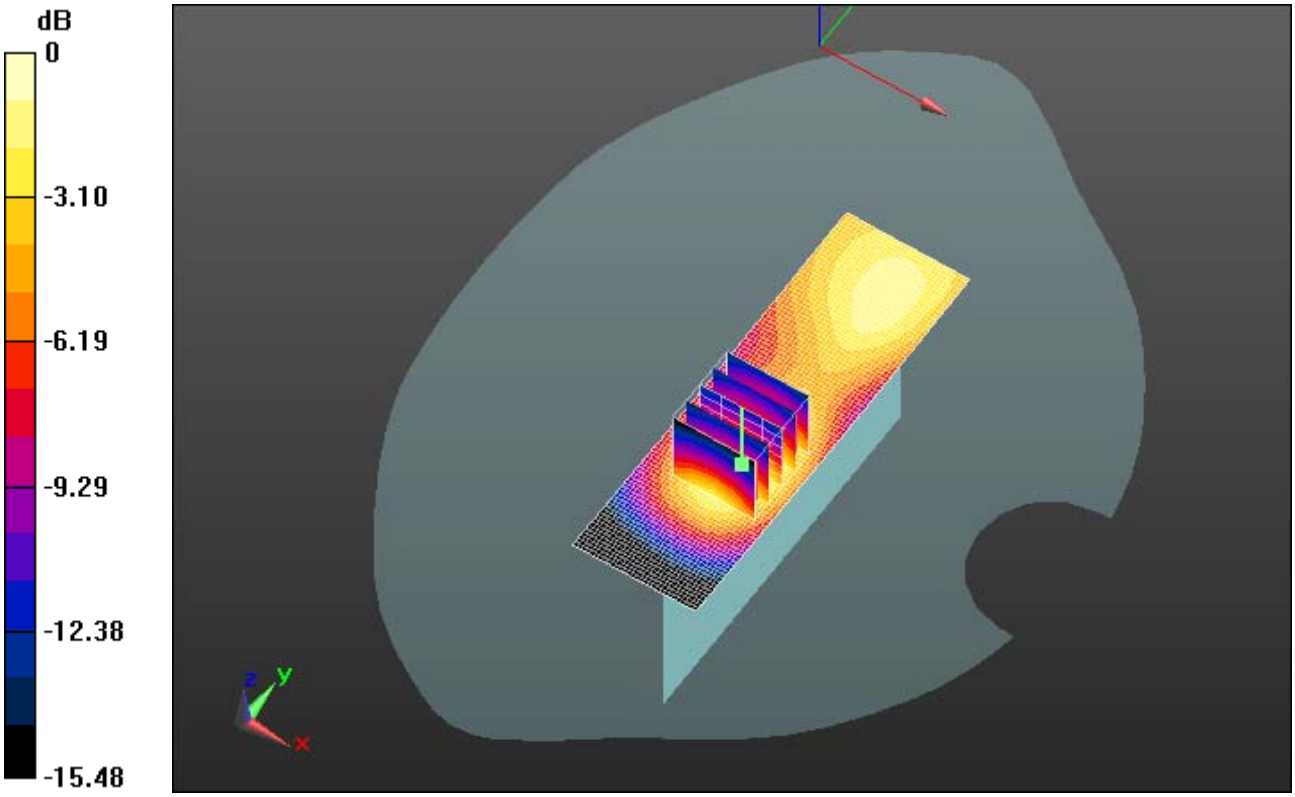

0 dB = 0.210mW/g = -13.56 dB mW/g

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Date/Time: 6/12/2012 12:32:17 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Bottom_LTE_2_low_chan_QPSK_RB_1_Offset_0_amb_temp_23.0_liq_temp_21.4C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A211C01

Communication System: LTE; Frequency: 1860 MHz
Medium parameters used: f = 1860 MHz; σ = 1.499 mho/m; ε_r = 50.873; 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) = 0.978 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 24.841 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 1.3950
SAR(1 g) = 0.838 mW/g; SAR(10 g) = 0.467 mW/g
Maximum value of SAR (measured) = 1.048 mW/g

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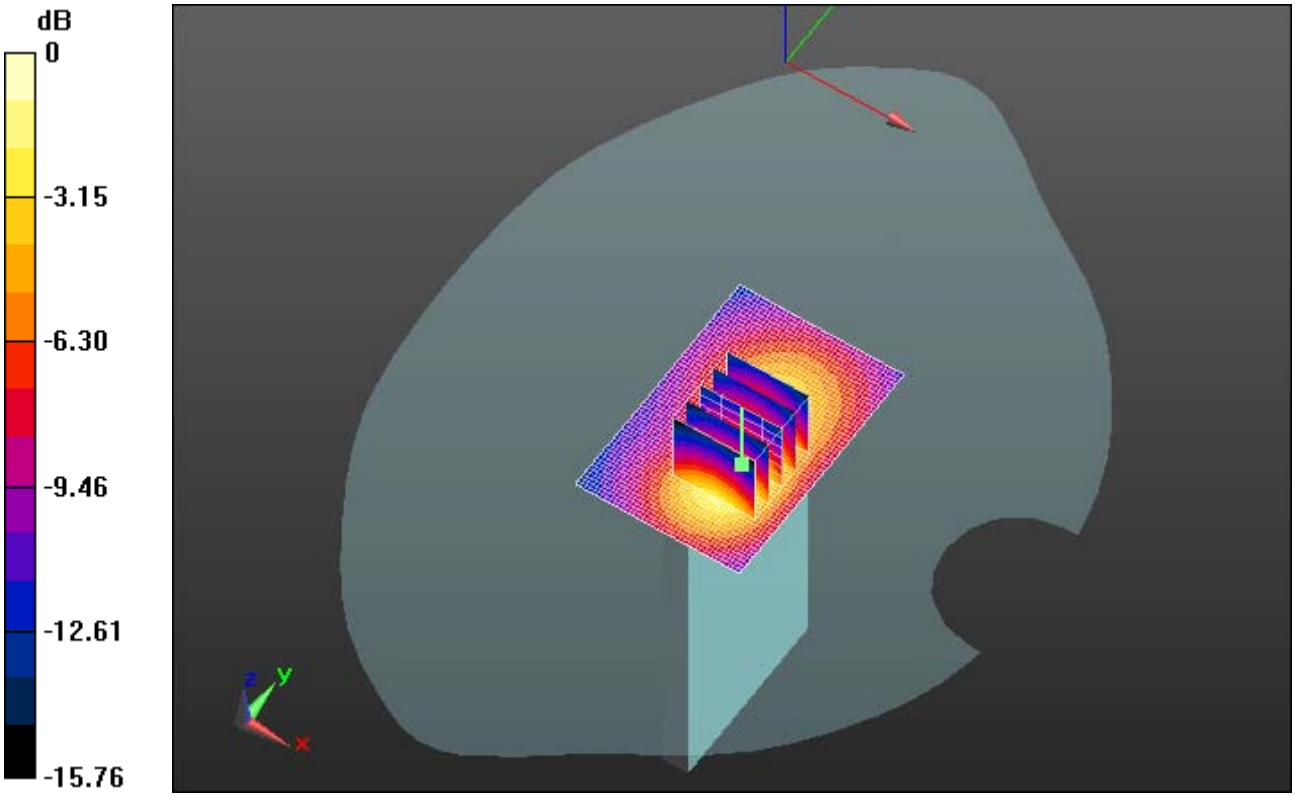

0 dB = 1.050mW/g = 0.42 dB mW/g

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Date/Time: 6/11/2012 11:51:56 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Bottom_LTE_2_mid_chan_QPSK_RB_1_Offset_0_amb_temp_22.7_liq_temp_21.4C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A211C01

Communication System: LTE; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.523 mho/m; ε_r = 50.843; 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) = 0.972 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 24.550 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 1.4300
SAR(1 g) = 0.831 mW/g; SAR(10 g) = 0.456 mW/g
Maximum value of SAR (measured) = 1.058 mW/g

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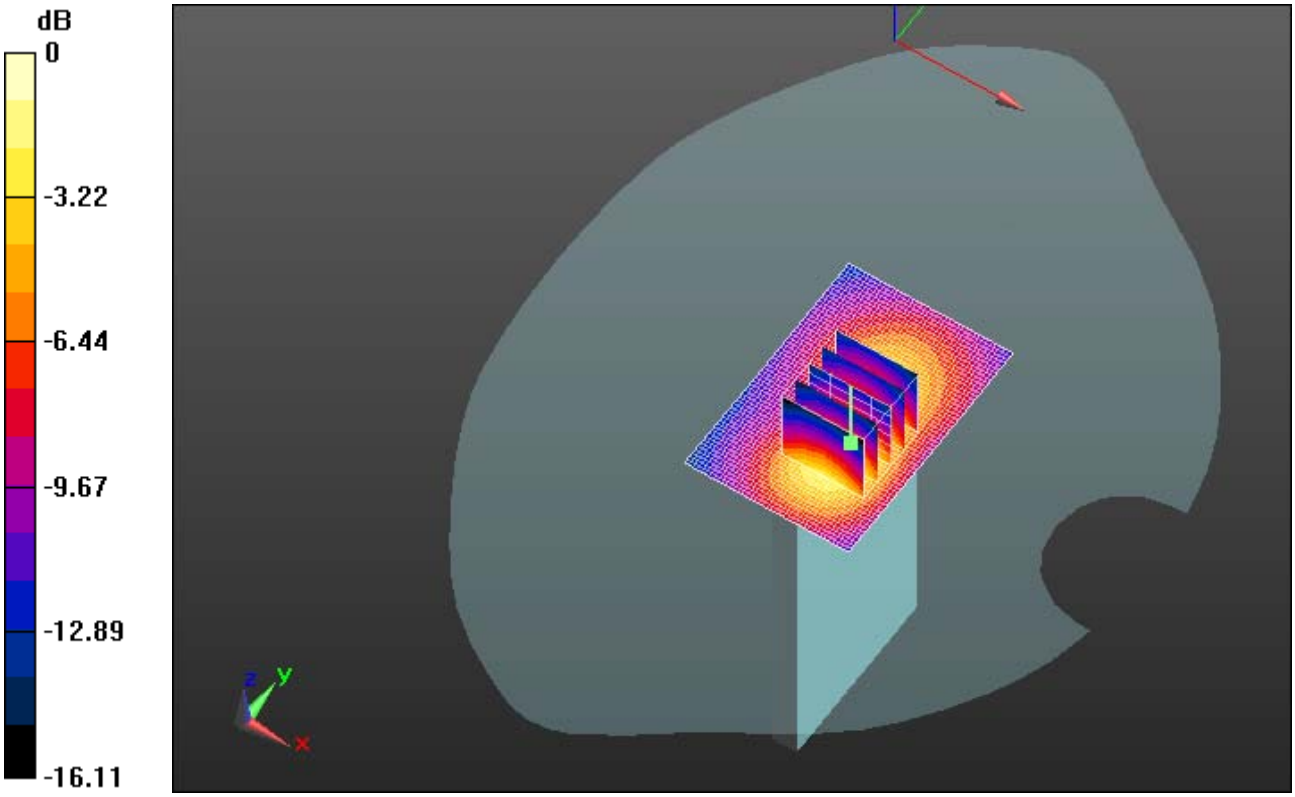

0 dB = 1.060mW/g = 0.51 dB mW/g

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Date/Time: 6/12/2012 12:44:03 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Bottom_LTE_2_high_chan_QPSK_RB_1_Offset_0_amb_temp_22.8_liq_temp_21.4C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A211C01

Communication System: LTE; Frequency: 1900 MHz
Medium parameters used: f = 1900 MHz; σ = 1.547 mho/m; ε_r = 50.764; 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) = 1.061 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 25.172 V/m; Power Drift = 0.0025 dB
Peak SAR (extrapolated) = 1.5140
SAR(1 g) = 0.895 mW/g; SAR(10 g) = 0.488 mW/g
Maximum value of SAR (measured) = 1.126 mW/g

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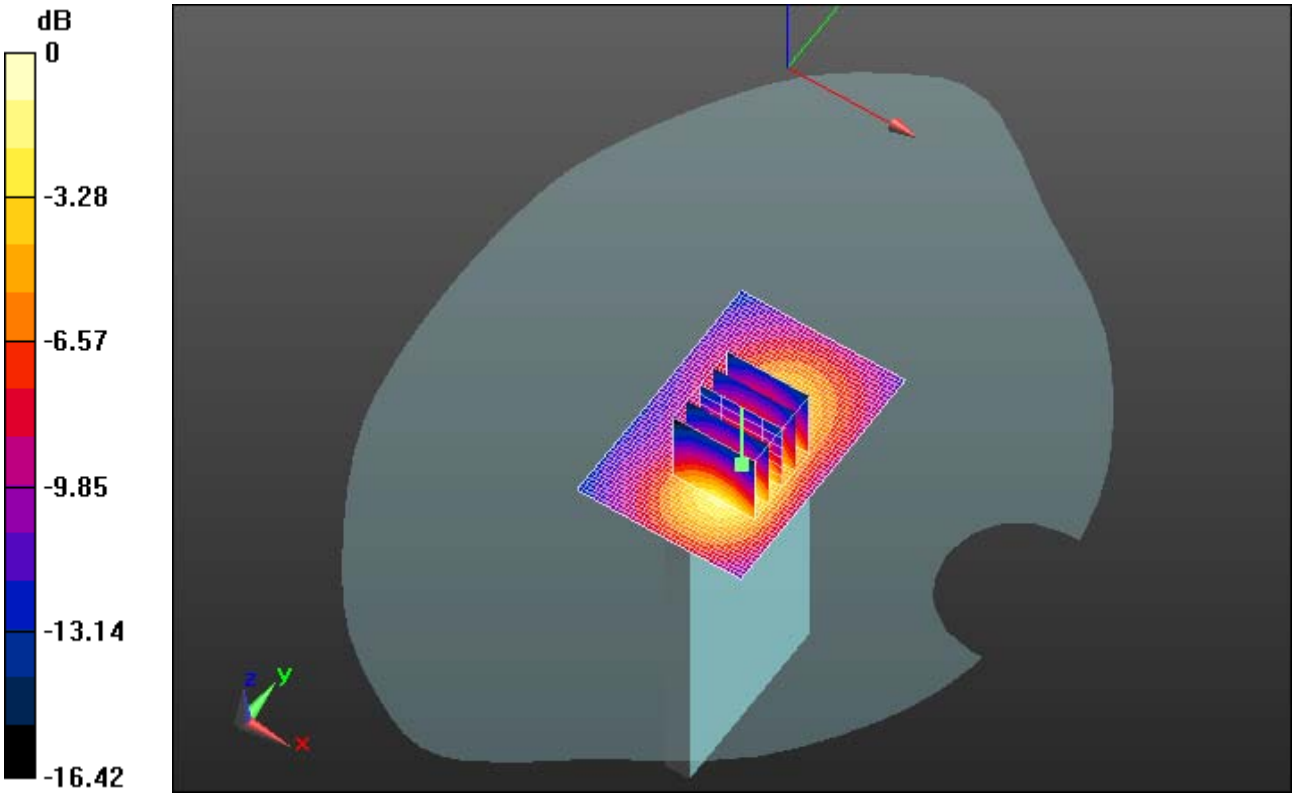

0 dB = 1.130mW/g = 1.06 dB mW/g

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Date/Time: 6/12/2012 2:22:56 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_Headset_LTE_2_mid_chan_QPSK_RB_1_Offset_0_amb_temp_23.2_liq_temp_21.4C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A20270D

Communication System: LTE; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.523 mho/m; ε_r = 50.843; 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) = 1.786 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 14.575 V/m; Power Drift = -0.27 dB
Peak SAR (extrapolated) = 2.3220
SAR(1 g) = 1.28 mW/g; SAR(10 g) = 0.663 mW/g
Maximum value of SAR (measured) = 1.577 mW/g

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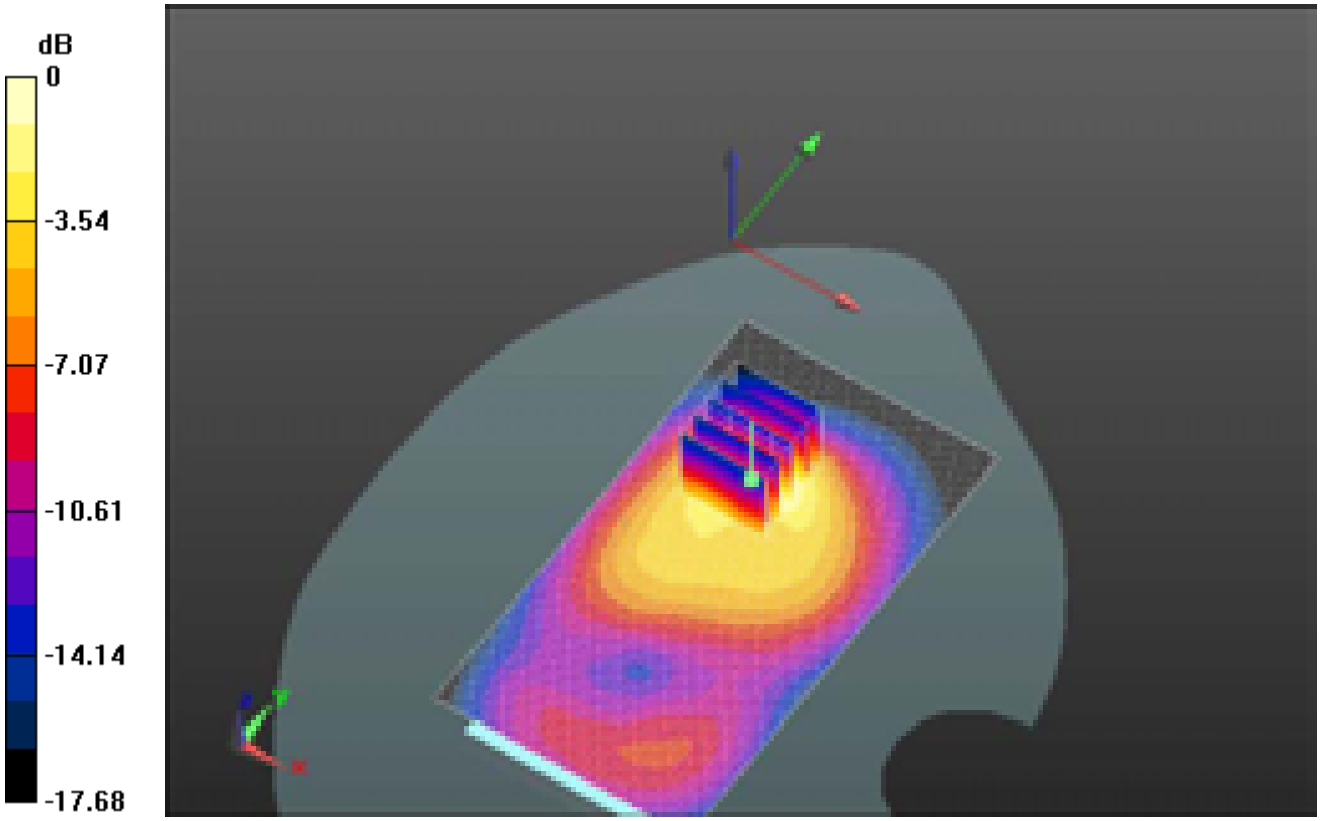

0 dB = 1.580mW/g = 3.97 dB mW/g

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Date/Time: 9/27/2012 3:57:31 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_2_mid_chan_QPSK_RB_1_Offset_0_amb_temp_23.7_liq_temp_22.6C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A8C7018

Communication System: LTE ; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.568 mho/m; ε_r = 51.052; 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) = 1.626 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 12.365 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 2.6070
SAR(1 g) = 1.45 mW/g; SAR(10 g) = 0.762 mW/g
Maximum value of SAR (measured) = 1.804 mW/g

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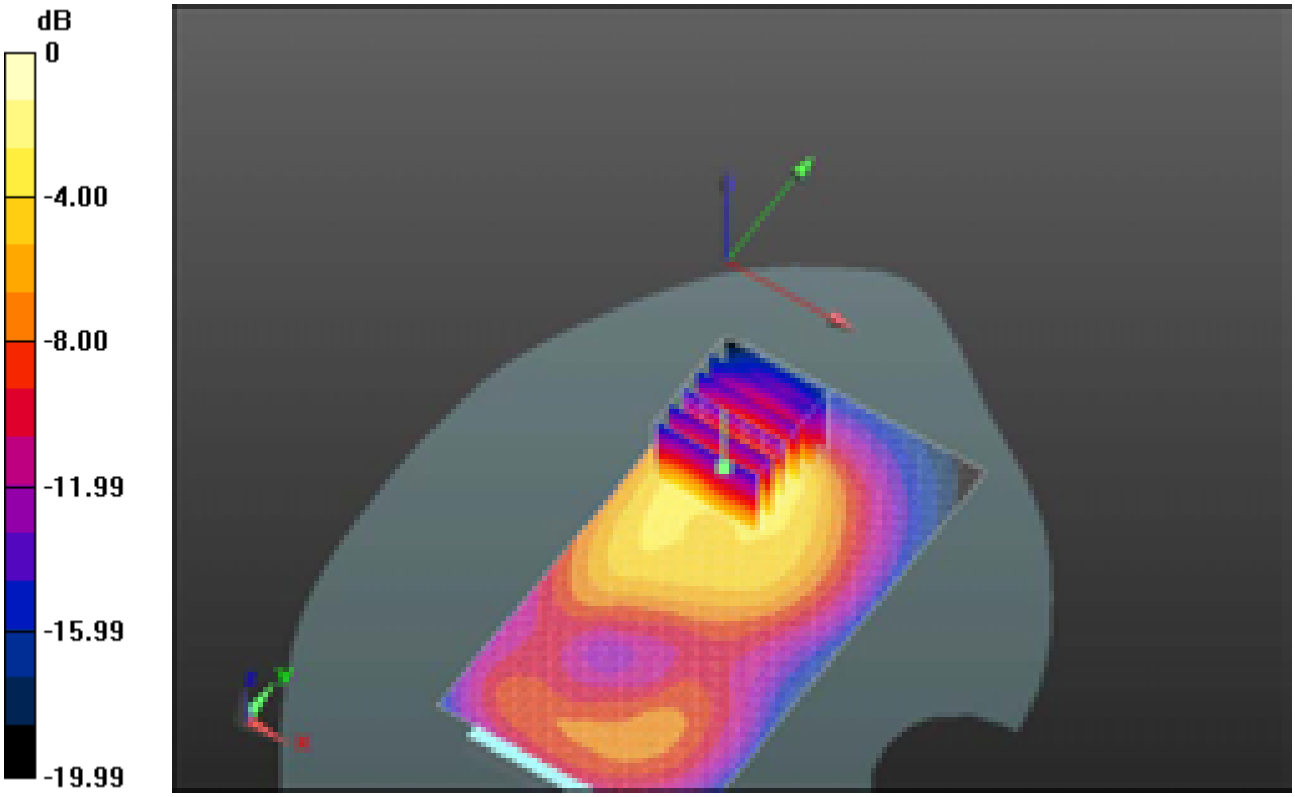

0 dB = 1.800mW/g = 5.11 dB mW/g

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Date/Time: 10/23/2012 10:50:26 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_2_mid_chan_QPSK_RB_1_Offset_0_amb_temp_23.8_liq_temp_22.9C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A8C7018

Communication System: LTE 1900_Band 2; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.485 mho/m; ε_r = 51.584; 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) = 1.398 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 9.737 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 1.9940
SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.574 mW/g
Maximum value of SAR (measured) = 1.405 mW/g

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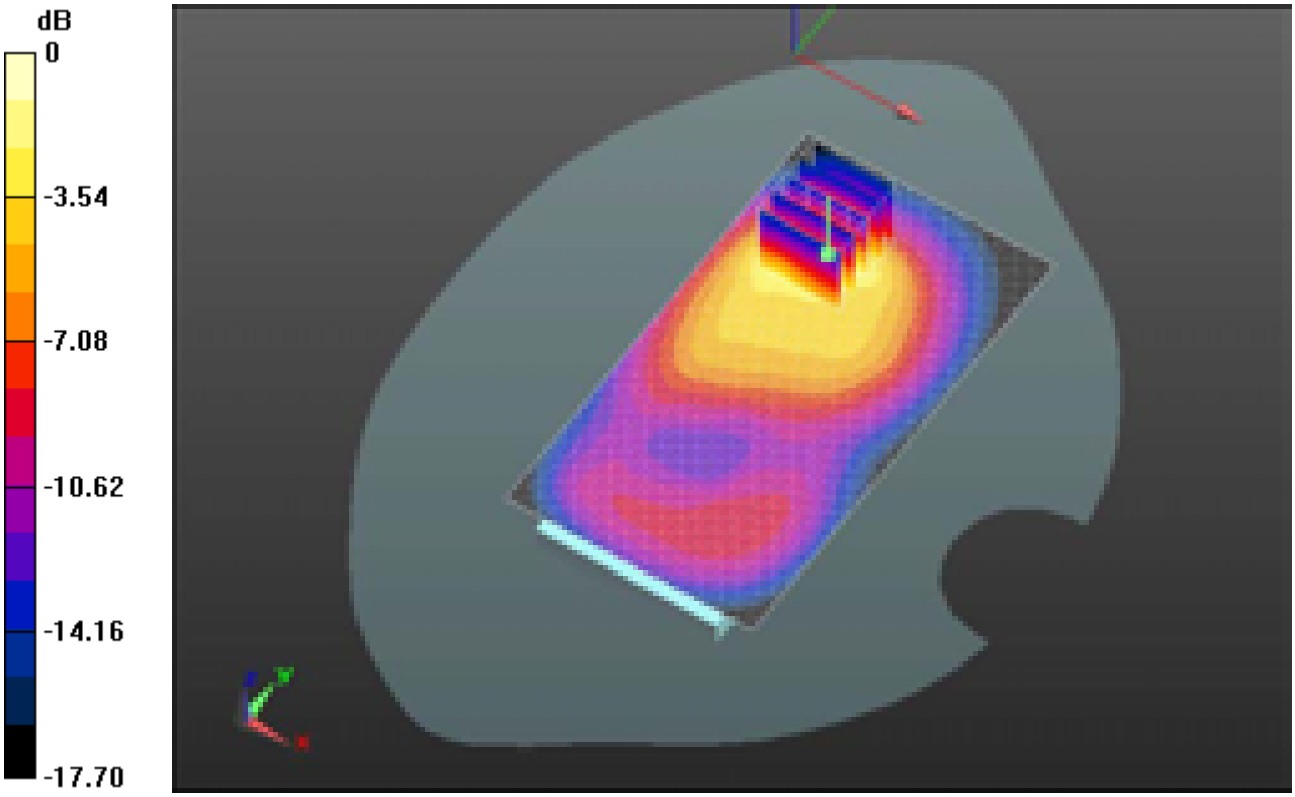

0 dB = 1.410mW/g = 2.98 dB mW/g

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Date/Time: 6/13/2012 2:53:39 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_GPRS1900_low_chan_amb_temp_22.6_liq_temp_21.4C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A211C01

Communication System: GPRS 1900; Frequency: 1850.2 MHz
Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.506 mho/m; ε_r = 50.949; 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) = 1.382 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 13.244 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 1.7850
SAR(1 g) = 0.983 mW/g; SAR(10 g) = 0.515 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.197 mW/g

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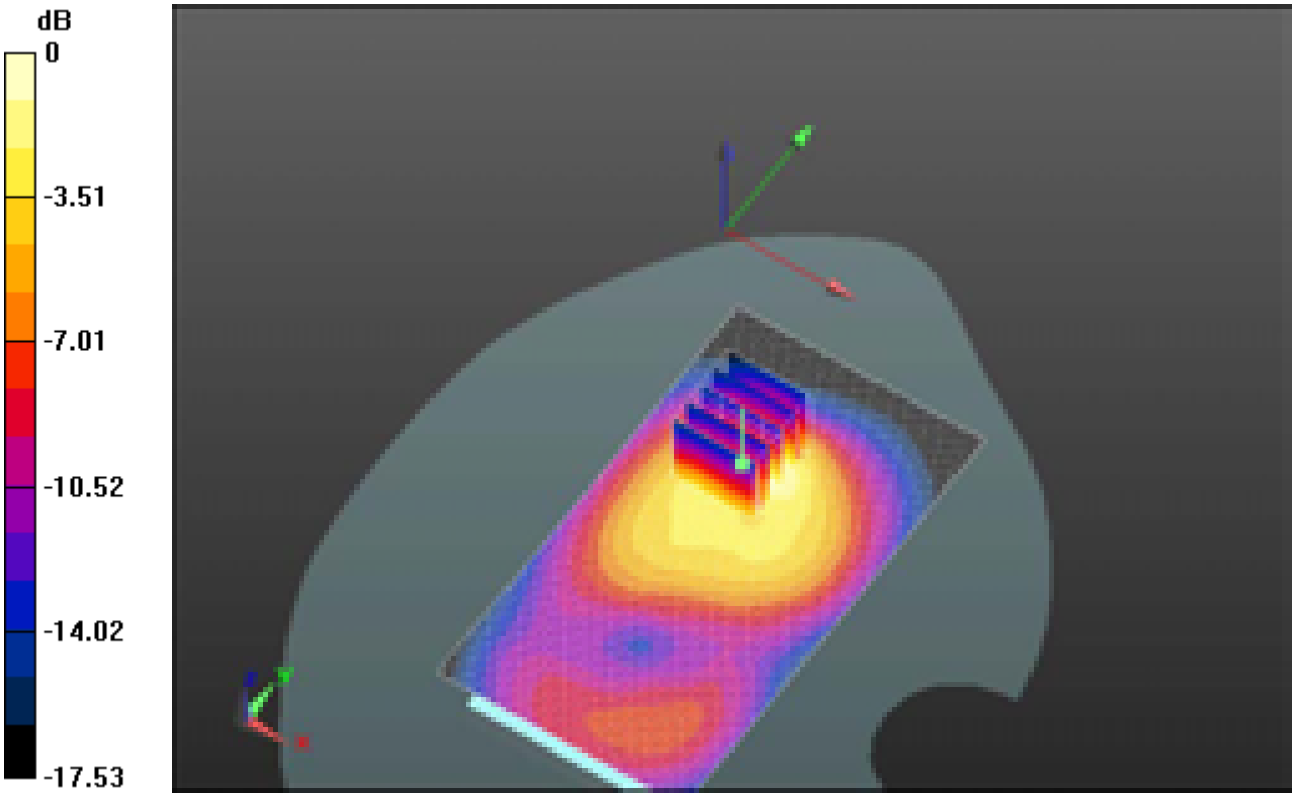

0 dB = 1.200mW/g = 1.58 dB mW/g

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Date/Time: 6/13/2012 2:35:36 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_GPRS1900_mid_chan_amb_temp_23.1_liq_temp_21.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A211C01

Communication System: GPRS 1900; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.54 mho/m; ε_r = 50.837; 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) = 1.357 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 12.975 V/m; Power Drift = -0.22 dB
Peak SAR (extrapolated) = 1.7690
SAR(1 g) = 0.972 mW/g; SAR(10 g) = 0.500 mW/g
Maximum value of SAR (measured) = 1.226 mW/g

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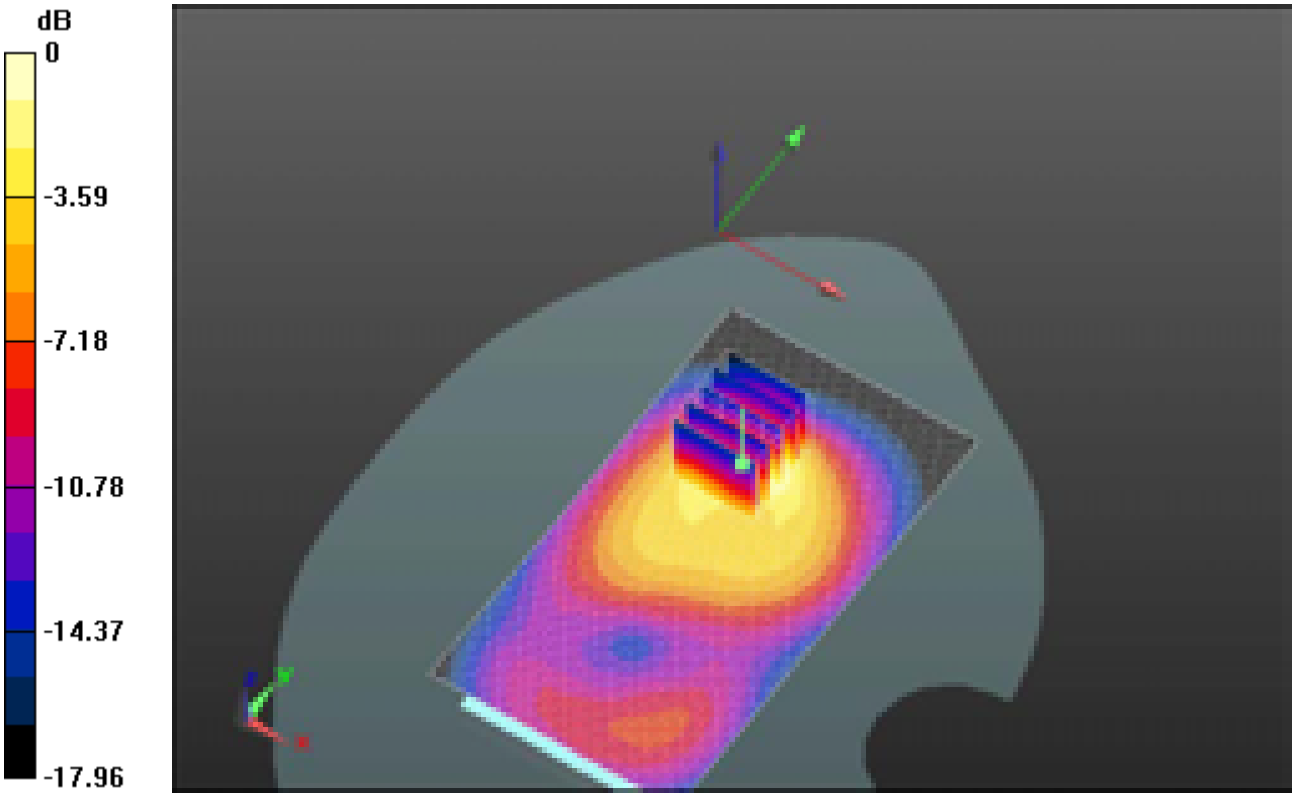

0 dB = 1.230mW/g = 1.80 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_GPRS1900_high_chan_amb_temp_22.5_liq_temp_21.4C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A211C01

Communication System: GPRS 1900; Frequency: 1909.8 MHz
Medium parameters used: f = 1910 MHz; σ = 1.575 mho/m; ε_r = 50.701; 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) = 1.413 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 12.278 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 1.9730
SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.517 mW/g
Maximum value of SAR (measured) = 1.297 mW/g

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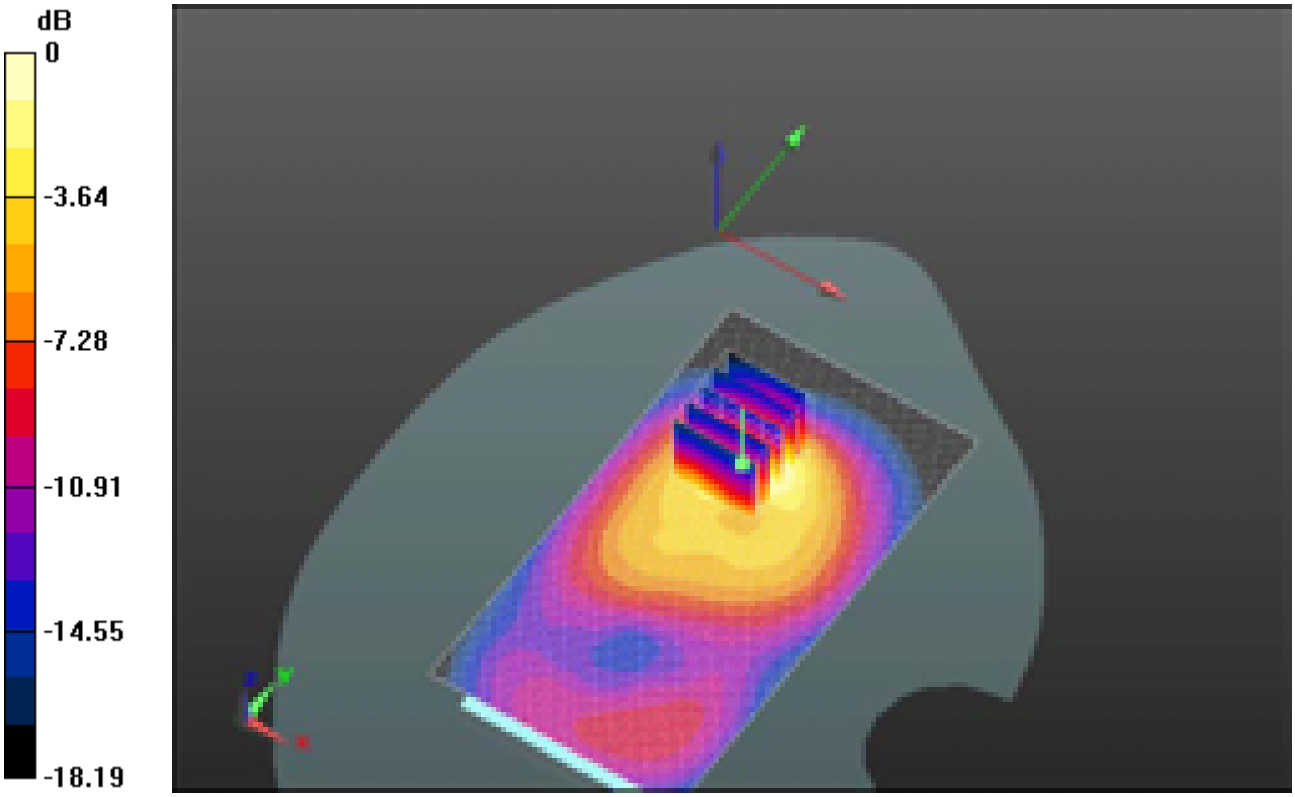

0 dB = 1.300mW/g = 2.28 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Front_GPRS1900_mid_chan_amb_temp_22.5_liq_temp_21.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A211C01

Communication System: GPRS 1900; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.54 mho/m; ε_r = 50.837; 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) = 0.487 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 8.903 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.6960
SAR(1 g) = 0.429 mW/g; SAR(10 g) = 0.250 mW/g
Maximum value of SAR (measured) = 0.521 mW/g

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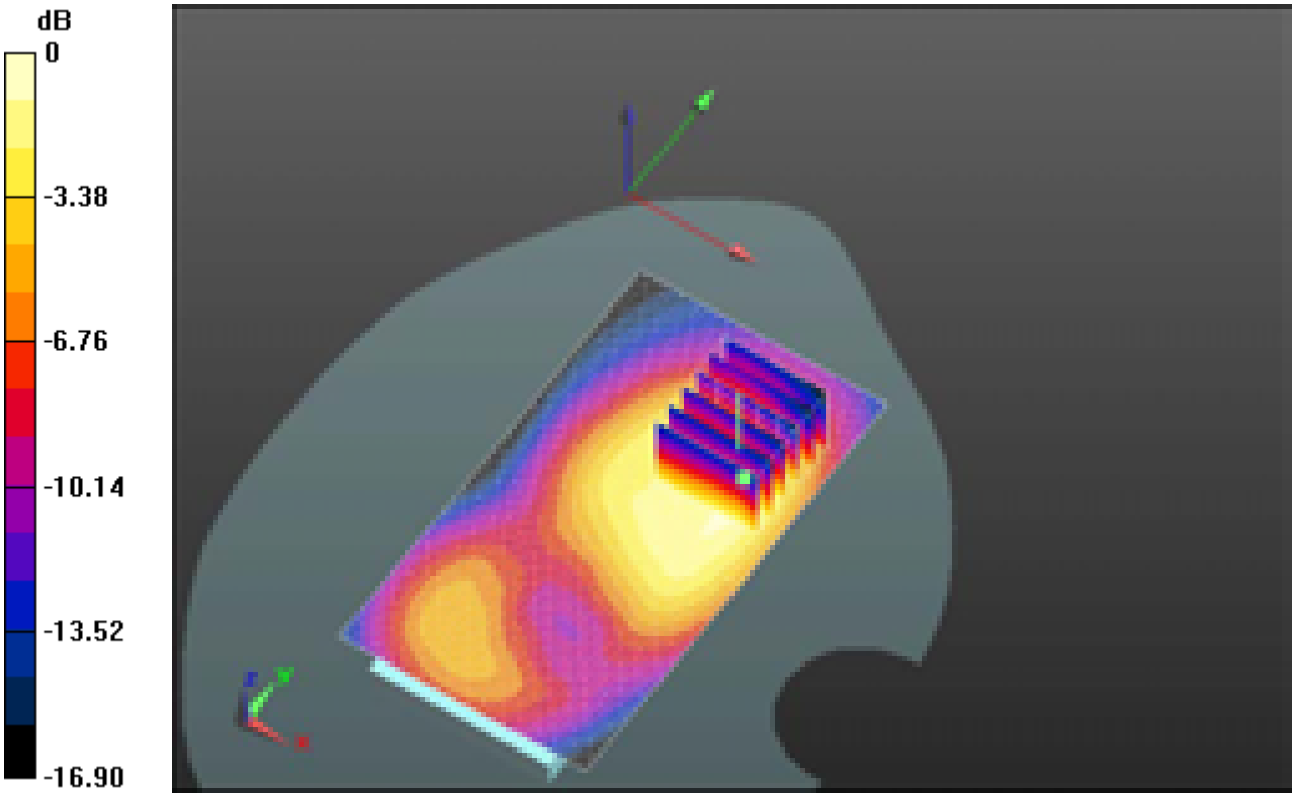

0 dB = 0.520mW/g = -5.68 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Left_GPRS1900_mid_chan_amb_temp_22.5C_liq_temp_21.5C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A20270D

Communication System: GPRS 1900; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.54 mho/m; ε_r = 50.837; 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) = 0.277 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 10.388 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.4010
SAR(1 g) = 0.234 mW/g; SAR(10 g) = 0.129 mW/g
Maximum value of SAR (measured) = 0.294 mW/g

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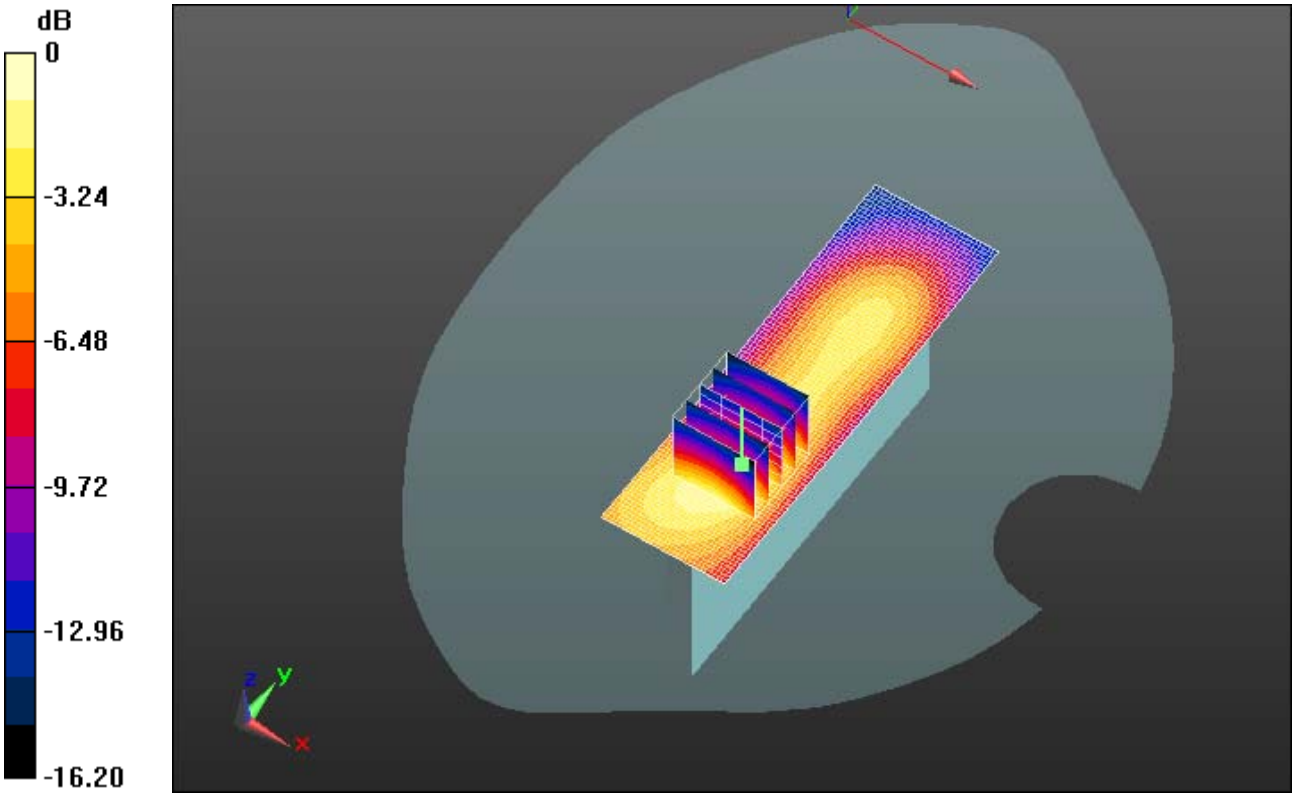

0 dB = 0.290mW/g = -10.75 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Right_GPRS1900_mid_chan_amb_temp_22.7C_liq_temp_21.5C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A20270D

Communication System: GPRS 1900; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.54 mho/m; ε_r = 50.837; 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) = 0.125 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 7.116 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 0.1640
SAR(1 g) = 0.100 mW/g; SAR(10 g) = 0.059 mW/g
Maximum value of SAR (measured) = 0.122 mW/g

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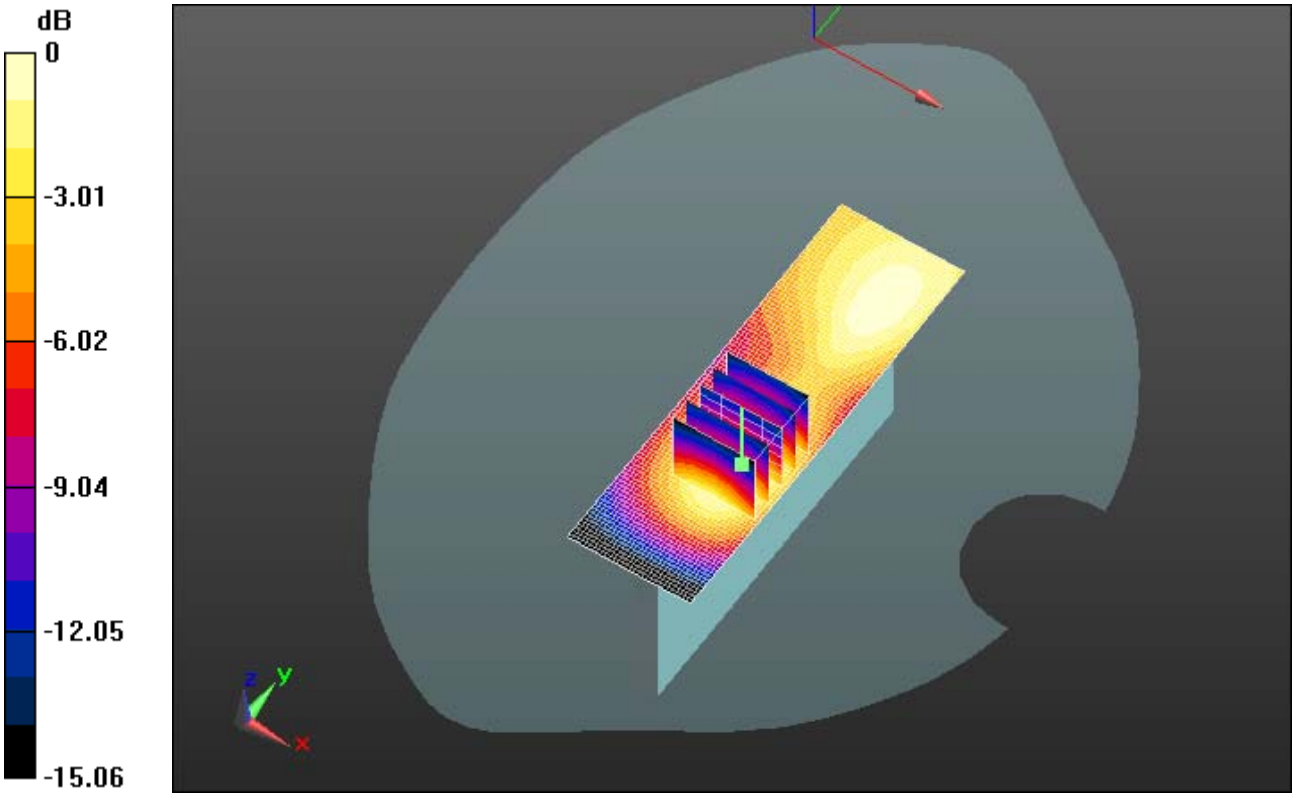

0 dB = 0.120mW/g = -18.42 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Bottom_GPRS1900_mid_chan_amb_temp_22.5_liq_temp_21.4C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A20270D

Communication System: GPRS 1900; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.54 mho/m; ε_r = 50.837; 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) = 0.731 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 21.915 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 1.0510
SAR(1 g) = 0.600 mW/g; SAR(10 g) = 0.326 mW/g
Maximum value of SAR (measured) = 0.756 mW/g

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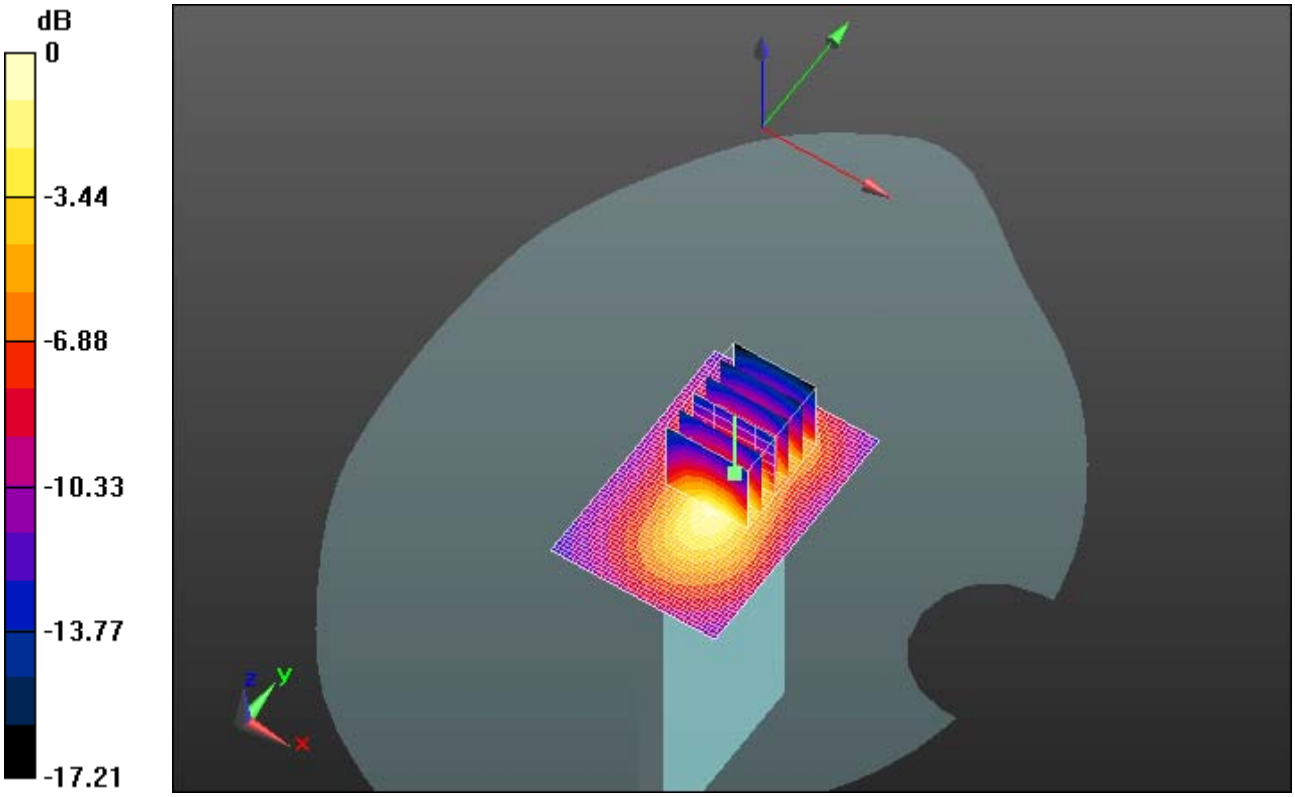

0 dB = 0.760mW/g = -2.38 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_Headset_GPRS1900_high_chan_amb_temp_22.5_liq_temp_21.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A211C01

Communication System: GPRS 1900; Frequency: 1909.8 MHz
Medium parameters used: f = 1910 MHz; σ = 1.575 mho/m; ε_r = 50.701; 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) = 1.394 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 12.355 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.9260
SAR(1 g) = 1.02 mW/g; SAR(10 g) = 0.508 mW/g
Maximum value of SAR (measured) = 1.274 mW/g

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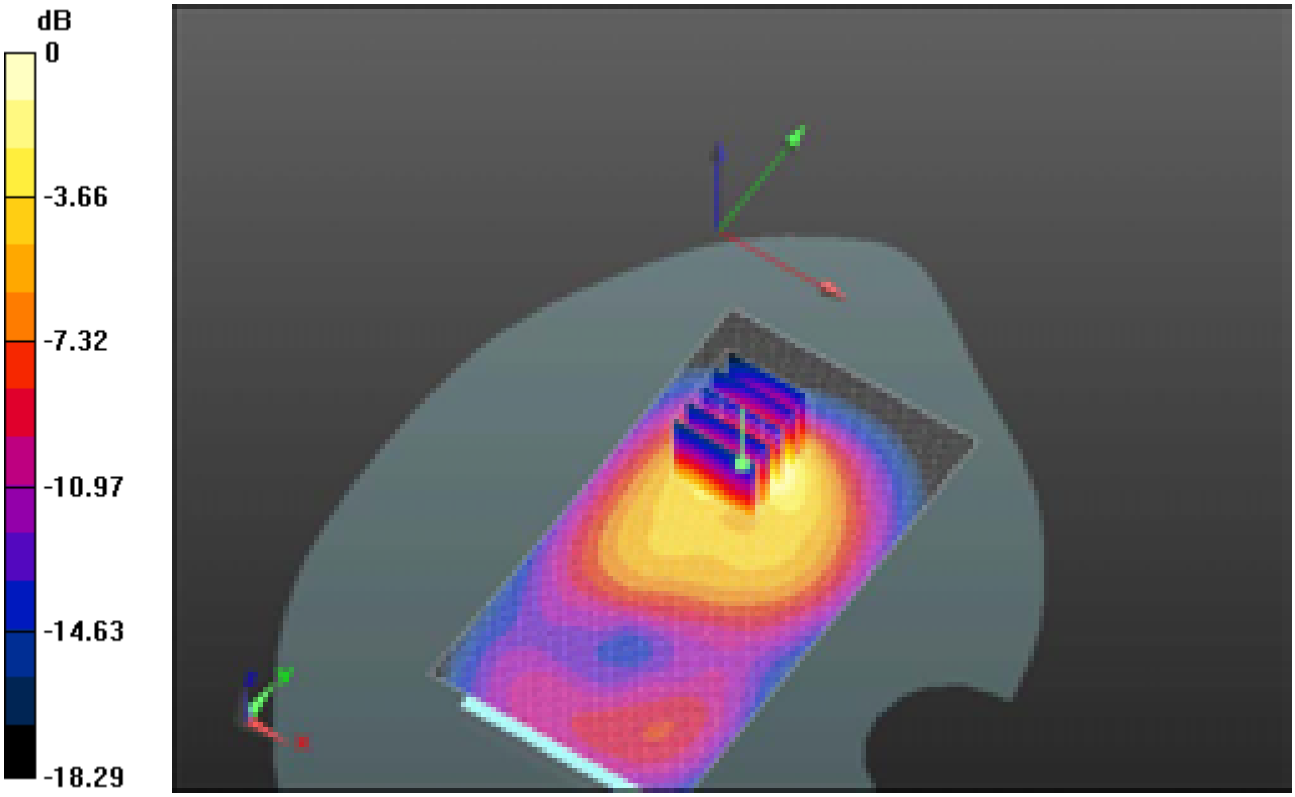

0 dB = 1.270mW/g = 2.08 dB mW/g

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Date/Time: 6/13/2012 4:28:16 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_GPRS1900_3slots_high_chan_amb_temp_22.5_liq_temp_21.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A211C01

Communication System: GPRS 1900 (3-slots); Frequency: 1909.8 MHz
Medium parameters used: f = 1910 MHz; σ = 1.575 mho/m; ε_r = 50.701; 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) = 0.896 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 9.860 V/m; Power Drift = 0.0067 dB
Peak SAR (extrapolated) = 1.3220
SAR(1 g) = 0.728 mW/g; SAR(10 g) = 0.374 mW/g
Maximum value of SAR (measured) = 0.922 mW/g

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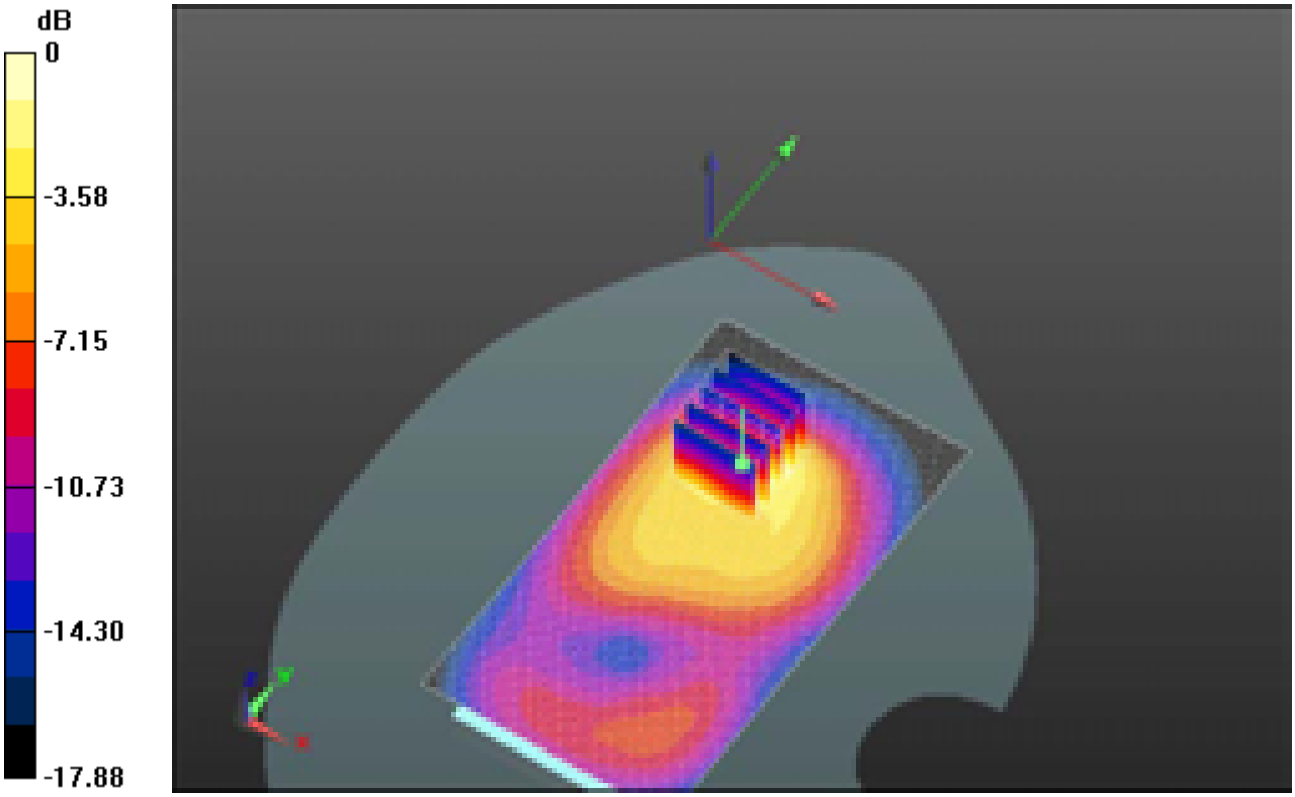

0 dB = 0.920mW/g = -0.72 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_GPRS1900_4-slots_high_chan_ amb_temp_22.5_liq_temp_21.4C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A211C01

Communication System: GPRS 1900 (4-slots); Frequency: 1909.8 MHz
Medium parameters used: f = 1910 MHz; σ = 1.575 mho/m; ε_r = 50.701; 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) = 1.027 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 10.680 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 1.5280
SAR(1 g) = 0.836 mW/g; SAR(10 g) = 0.429 mW/g
Maximum value of SAR (measured) = 1.043 mW/g

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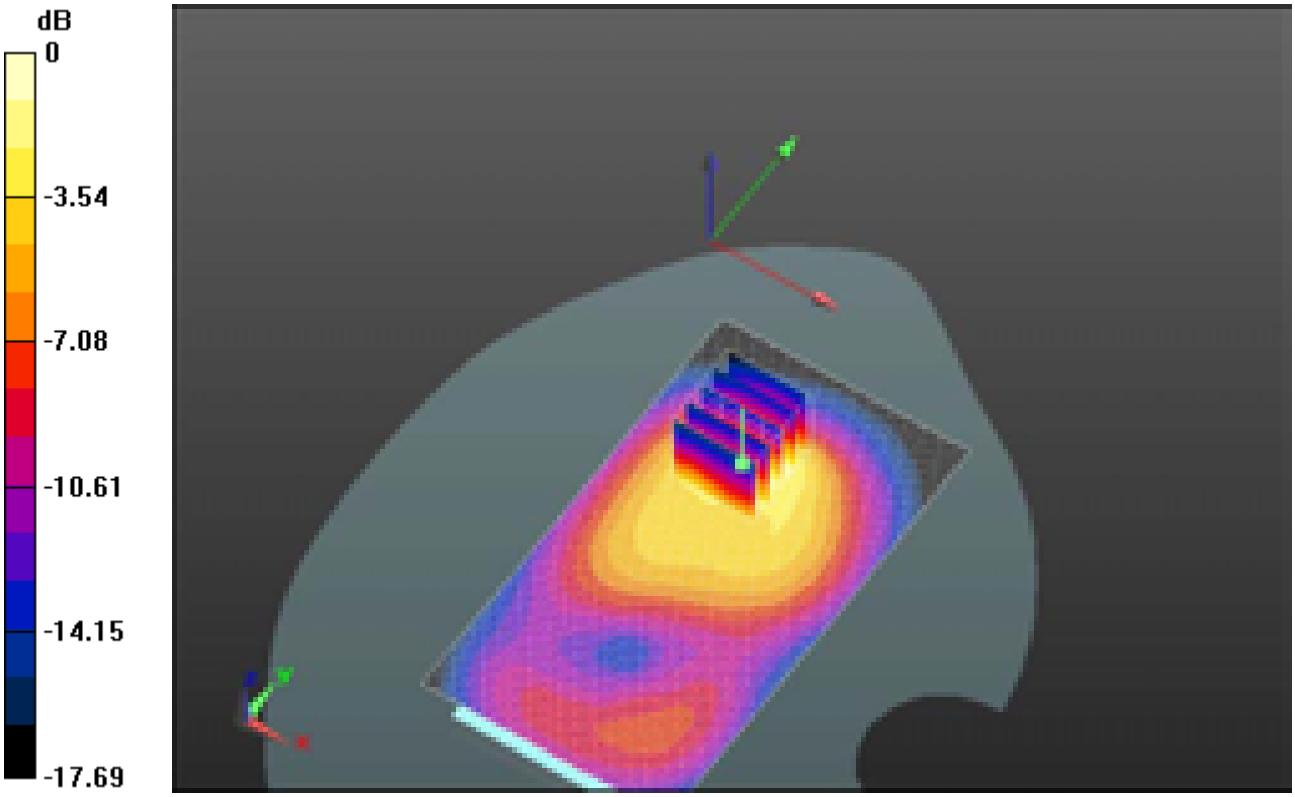

0 dB = 1.040mW/g = 0.34 dB mW/g

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Date/Time: 9/28/2012 12:28:09 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_GPRS1900_high_chan_amb_temp_23.8_liq_temp_21.4C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A8C7018

Communication System: GPRS 1900; Frequency: 1909.8 MHz
Medium parameters used: f = 1910 MHz; σ = 1.593 mho/m; ε_r = 50.906; 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) = 1.504 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 8.737 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 2.0890
SAR(1 g) = 1.13 mW/g; SAR(10 g) = 0.576 mW/g
Maximum value of SAR (measured) = 1.490 mW/g

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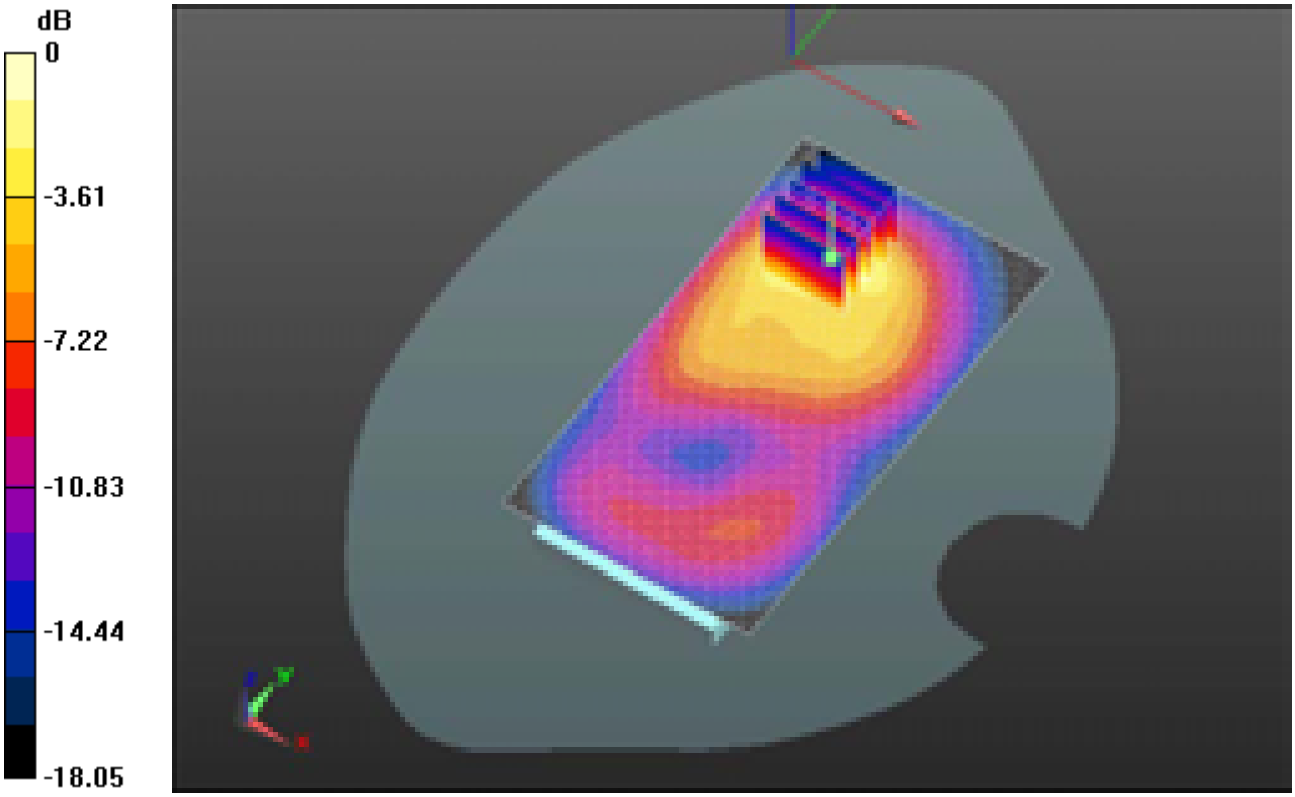

0 dB = 1.490mW/g = 3.46 dB mW/g

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Date/Time: 6/12/2012 4:12:03 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_UMTS_Band_II_low_chan_amb_temp_22.6_liq_temp_21.4C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A20270D

Communication System: WCDMA FDD II; Frequency: 1852.4 MHz
Medium parameters used (interpolated): f = 1852.4 MHz; σ = 1.491 mho/m; ε_r = 50.891; 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) = 1.846 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 16.704 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 2.5050
SAR(1 g) = 1.37 mW/g; SAR(10 g) = 0.714 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.778 mW/g

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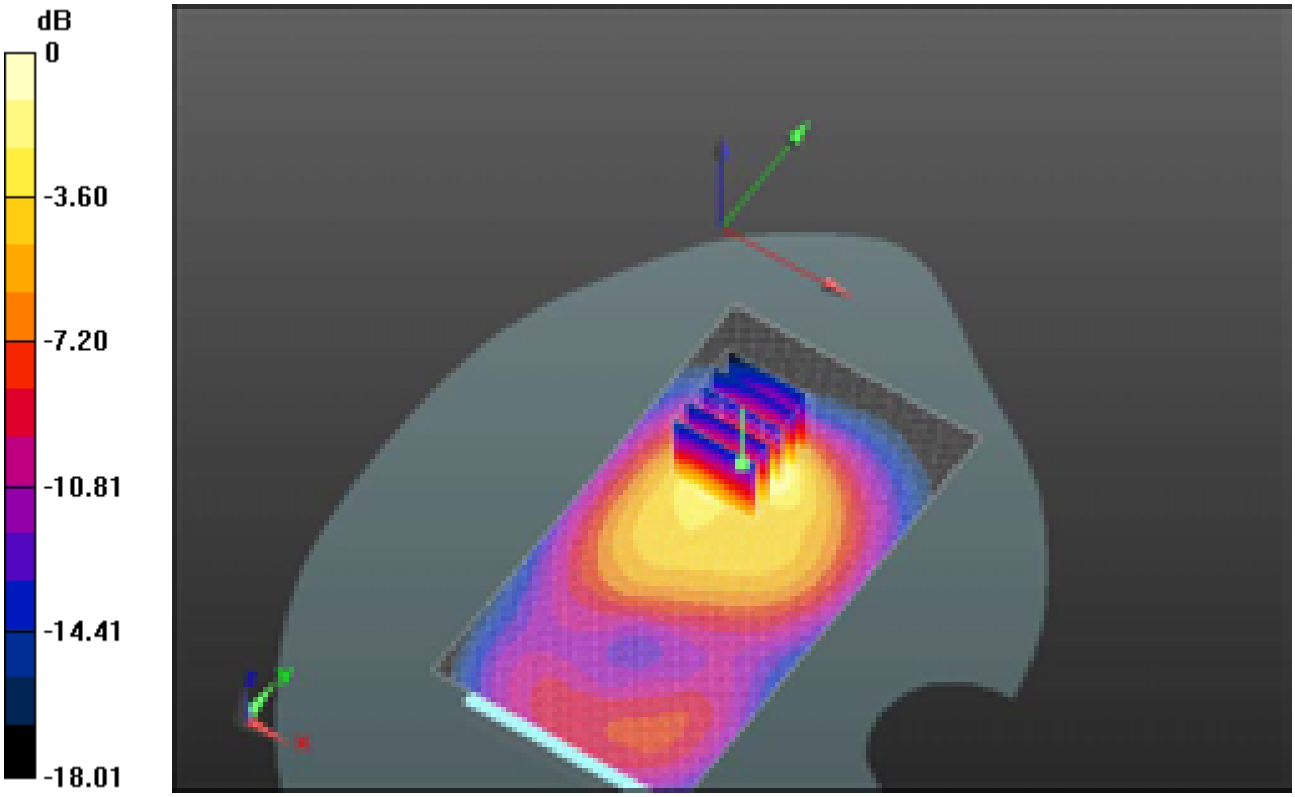

0 dB = 1.780mW/g = 5.01 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_UMTS_Band_II_mid_chan_amb_temp_22.3 _liq_temp_21.4C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A20270D

Communication System: WCDMA FDD II; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.523 mho/m; ε_r = 50.843; 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) = 1.726 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 15.347 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 2.3320
SAR(1 g) = 1.27 mW/g; SAR(10 g) = 0.656 mW/g
Maximum value of SAR (measured) = 1.622 mW/g

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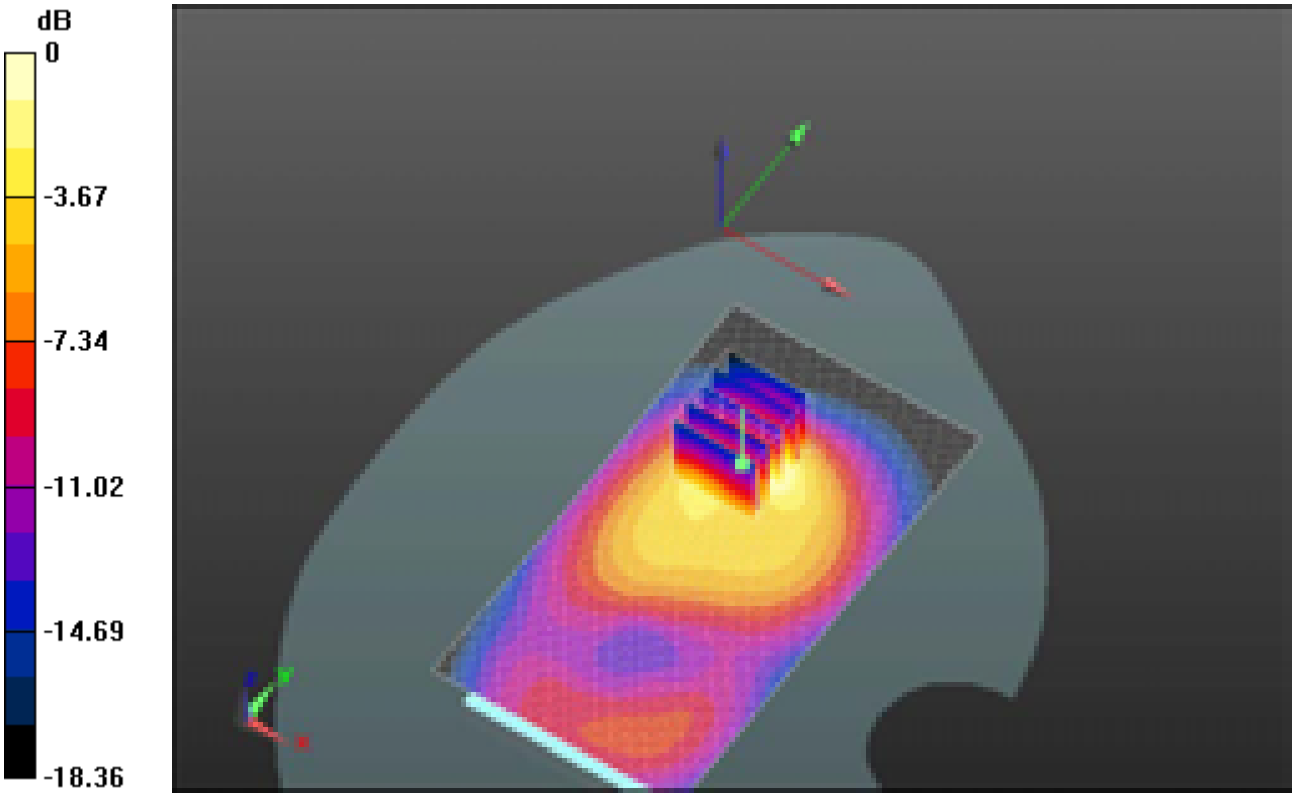

0 dB = 1.620mW/g = 4.19 dB mW/g

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Date/Time: 6/12/2012 4:29:21 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_UMTS_Band_II_high_chan_amb_temp_22.3 _liq_temp_21.4C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A20270D

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz
Medium parameters used (interpolated): f = 1907.6 MHz; σ = 1.556 mho/m; ε_r = 50.725; 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) = 1.848 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 15.153 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 2.6740
SAR(1 g) = 1.43 mW/g; SAR(10 g) = 0.712 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.838 mW/g

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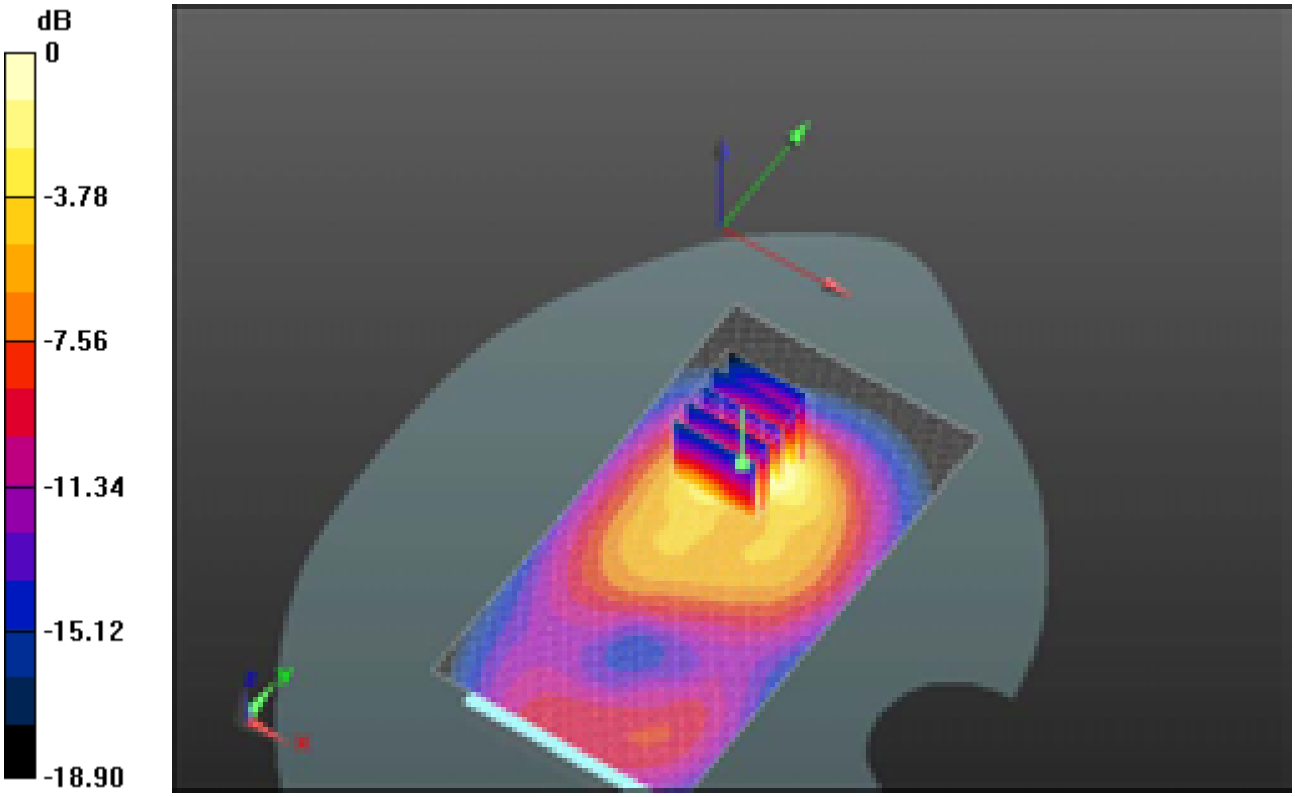

0 dB = 1.840mW/g = 5.30 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Left_UMTS_Band_II_mid_chan_amb_temp_22.9C _liq_temp_21.4C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A20270D

Communication System: WCDMA FDD II; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.523 mho/m; ε_r = 50.843; 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) = 0.443 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 13.053 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.6740
SAR(1 g) = 0.387 mW/g; SAR(10 g) = 0.210 mW/g
Maximum value of SAR (measured) = 0.493 mW/g

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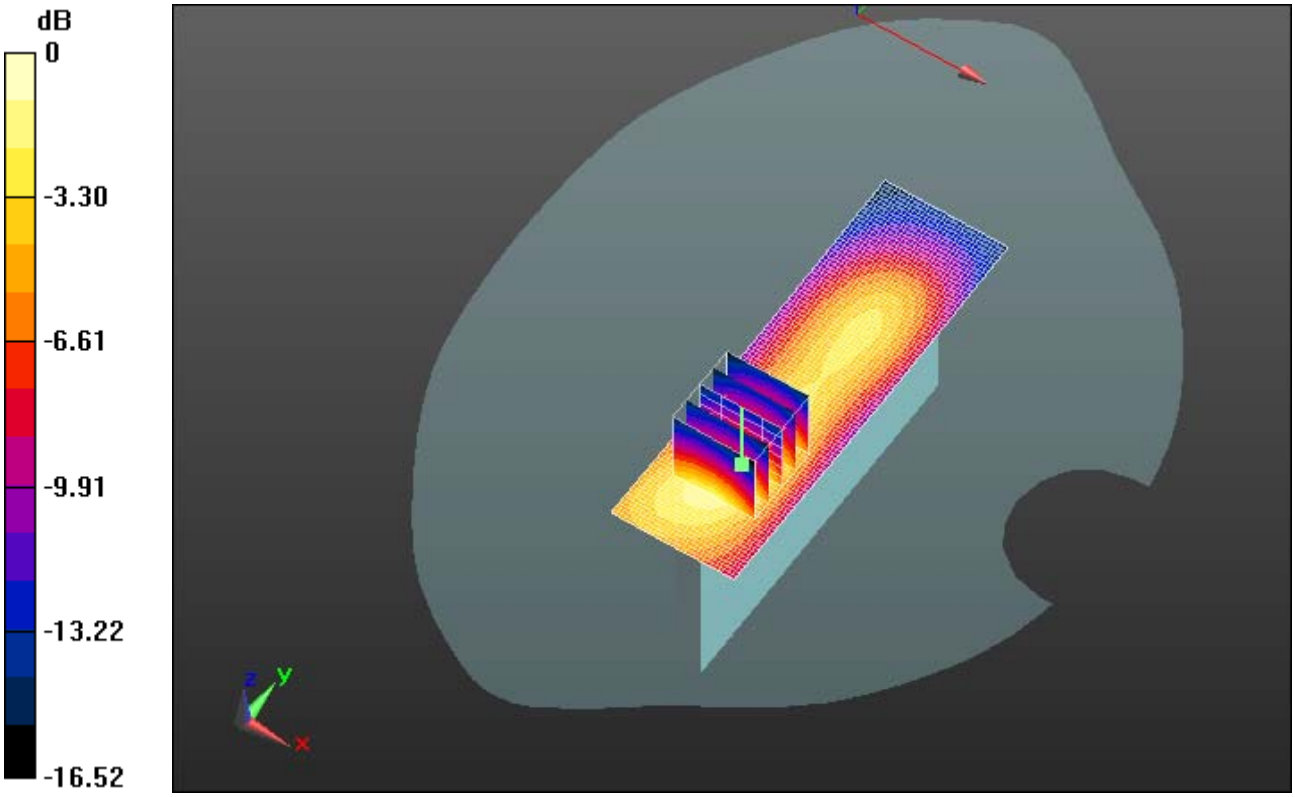

0 dB = 0.490mW/g = -6.20 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Right_UMTS_Band_II_mid_chan_amb_temp_22.5 C_liq_temp_21.4C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A20270D

Communication System: WCDMA FDD II; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.523 mho/m; ε_r = 50.843; 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) = 0.186 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 9.420 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.2430
SAR(1 g) = 0.150 mW/g; SAR(10 g) = 0.088 mW/g
Maximum value of SAR (measured) = 0.183 mW/g

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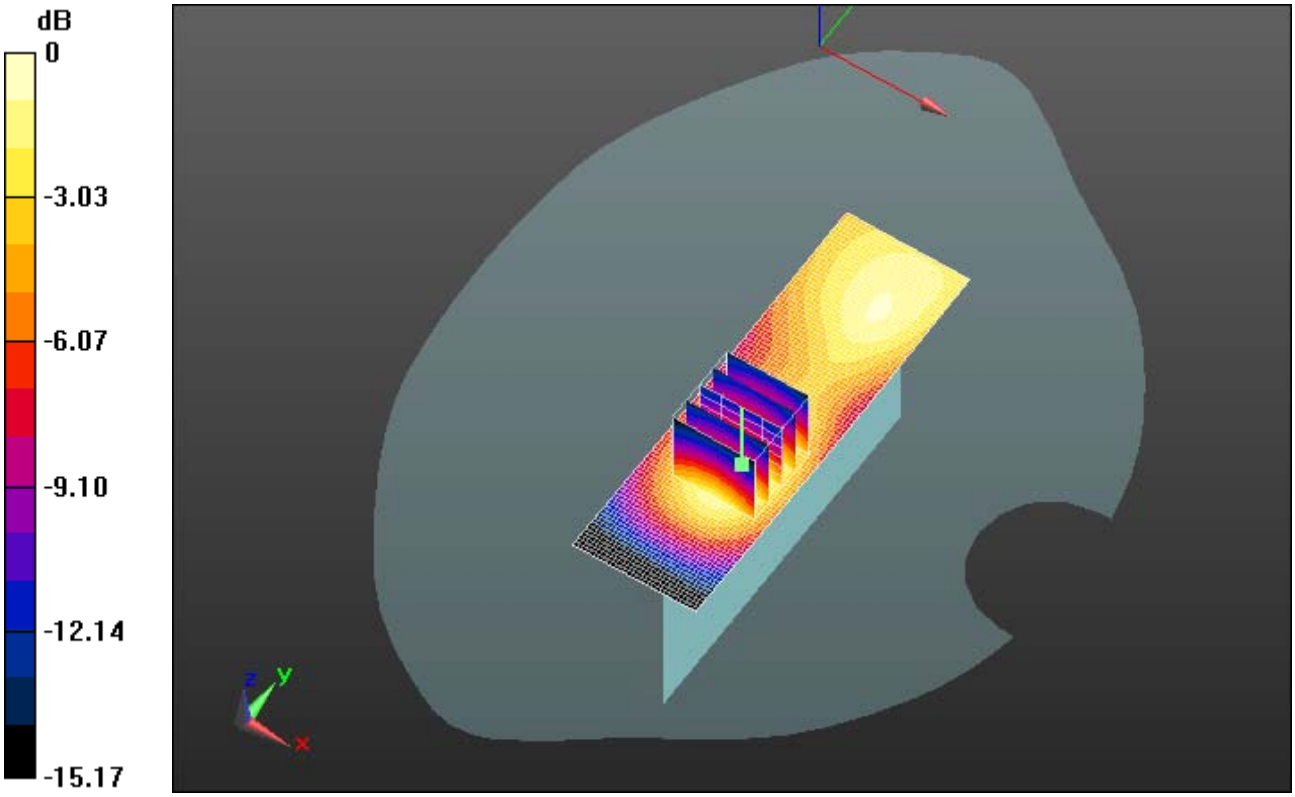

0 dB = 0.180mW/g = -14.89 dB mW/g

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Date/Time: 6/12/2012 6:52:41 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Bottom_UMTS_Band_II_mid_chan_amb_temp_22.2_liq_temp_21.4C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A20270D

Communication System: WCDMA FDD II; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.523 mho/m; ε_r = 50.843; 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) = 0.783 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 23.384 V/m; Power Drift = -0.0062 dB
Peak SAR (extrapolated) = 1.0780
SAR(1 g) = 0.642 mW/g; SAR(10 g) = 0.357 mW/g
Maximum value of SAR (measured) = 0.794 mW/g

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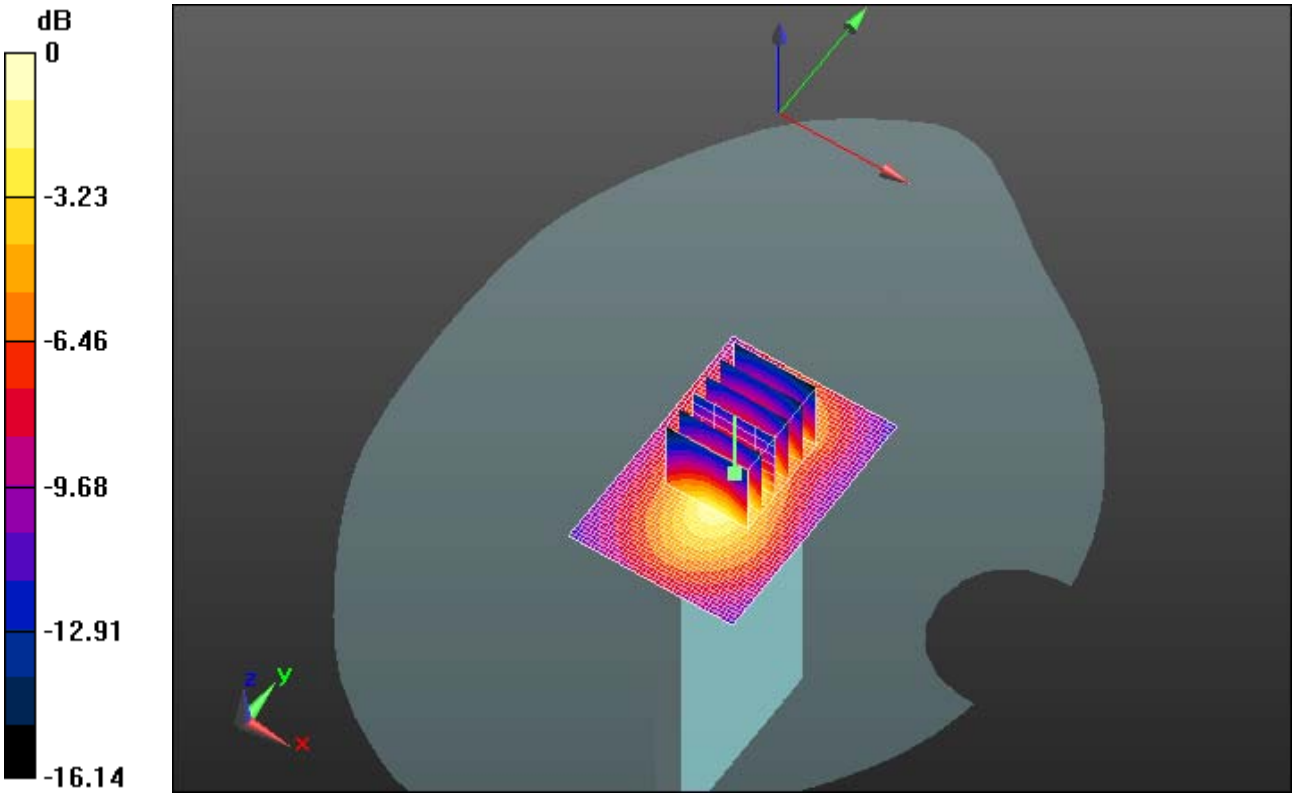

0 dB = 0.790mW/g = -2.05 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_Headset_UMTS_Band_II_mid_chan_amb_temp_22.4_liq_temp_21.4C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A20270D

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz
Medium parameters used (interpolated): f = 1907.6 MHz; σ = 1.556 mho/m; ε_r = 50.725; 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) = 1.838 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 14.294 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 2.4900
SAR(1 g) = 1.36 mW/g; SAR(10 g) = 0.690 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.733 mW/g

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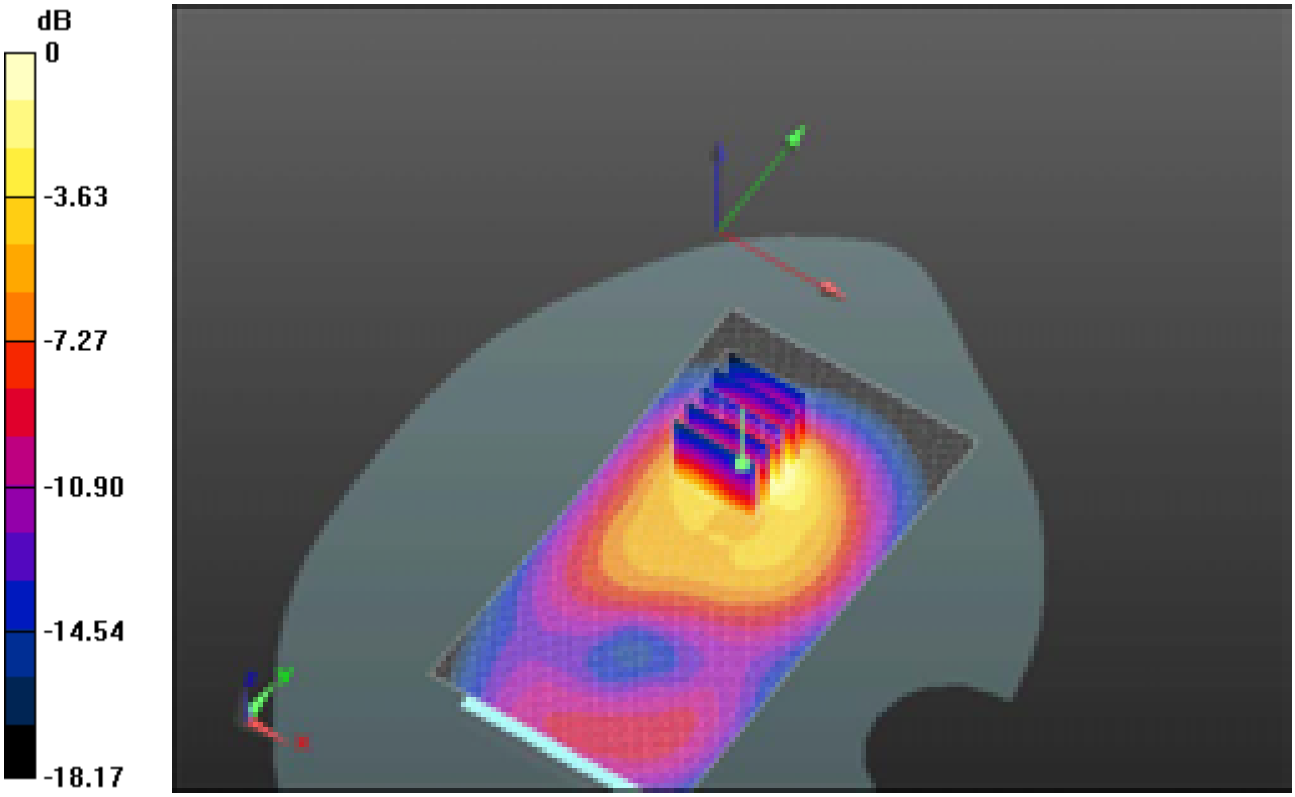

0 dB = 1.730mW/g = 4.76 dB mW/g

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Date/Time: 10/23/2012 10:03:20 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_UMTS_Band_II_high_chan_amb_temp_23.8_liq_temp_22.9C_T3

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A8C7018

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz
Medium parameters used (interpolated): f = 1907.6 MHz; σ = 1.517 mho/m; ε_r = 51.569; 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) = 1.783 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 9.360 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 2.4090
SAR(1 g) = 1.34 mW/g; SAR(10 g) = 0.692 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.712 mW/g

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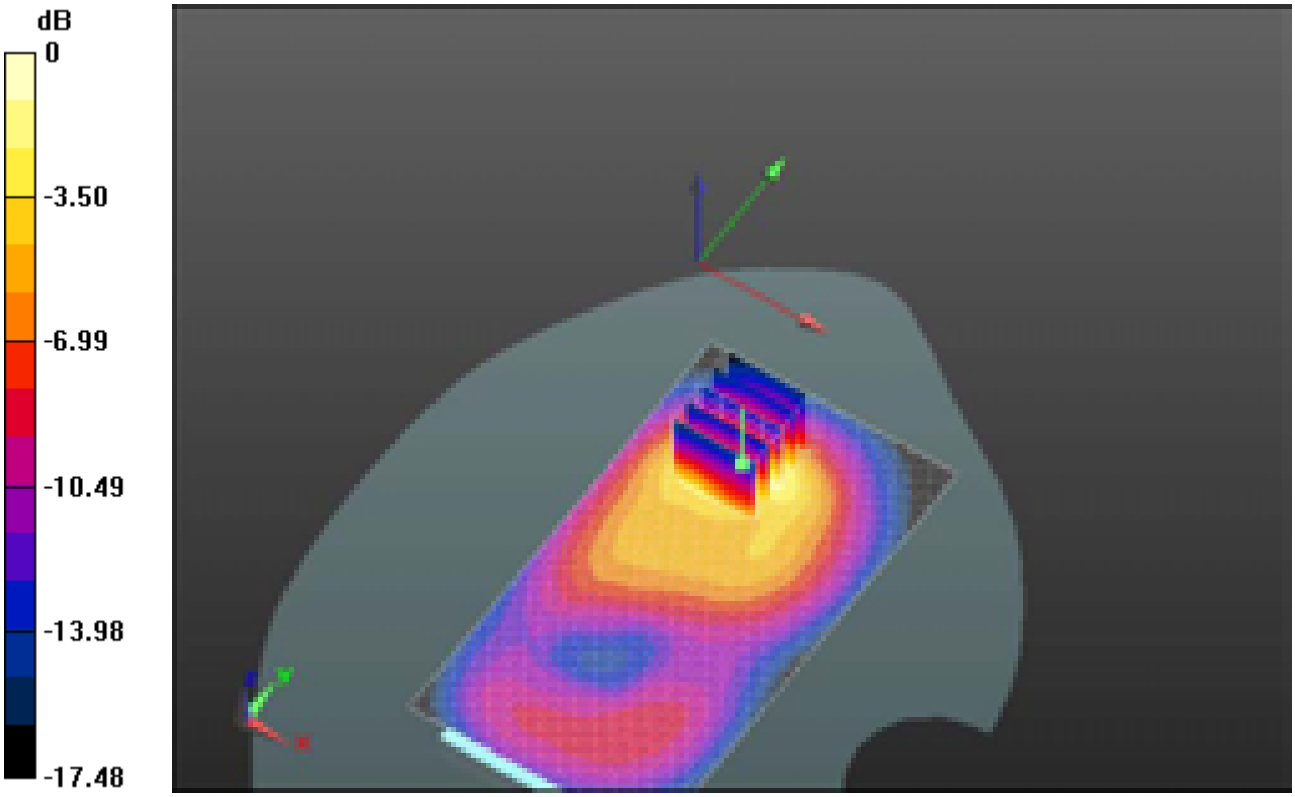

0 dB = 1.710mW/g = 4.66 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_802.11b_mid_chan_amb_temp_23.6_liq_temp_22.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A211C01

Communication System: 802.11 b (2450); Frequency: 2437 MHz
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.899 mho/m; ε_r = 52.043; 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) = 0.503 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 3.974 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 1.0740
SAR(1 g) = 0.483 mW/g; SAR(10 g) = 0.204 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.620 mW/g

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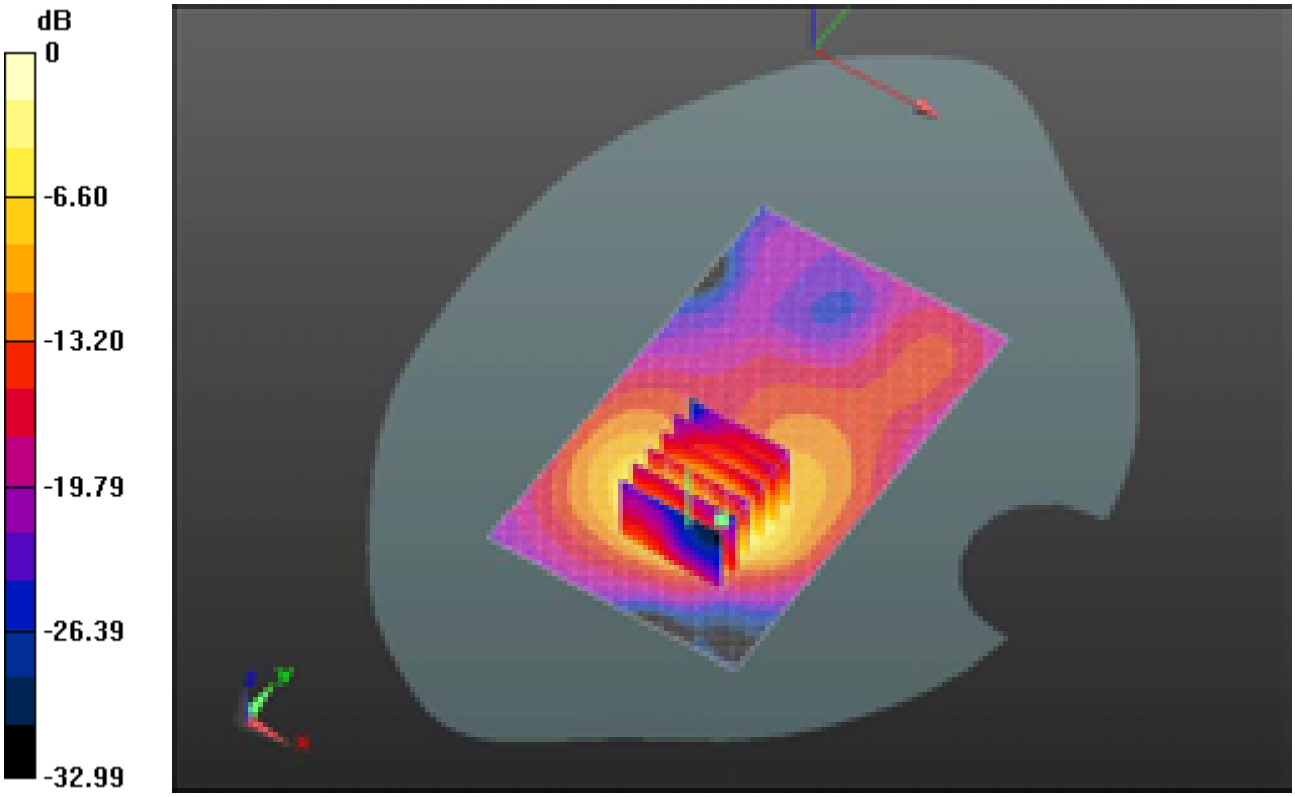

0 dB = 0.620mW/g = -4.15 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Front_802.11b_mid_chan_amb_temp_22.9_liq_temp_22.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A211C01

Communication System: 802.11 b (2450); Frequency: 2437 MHz
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.899 mho/m; ε_r = 52.043; 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) = 0.087 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 3.296 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.1330
SAR(1 g) = 0.068 mW/g; SAR(10 g) = 0.035 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.087 mW/g

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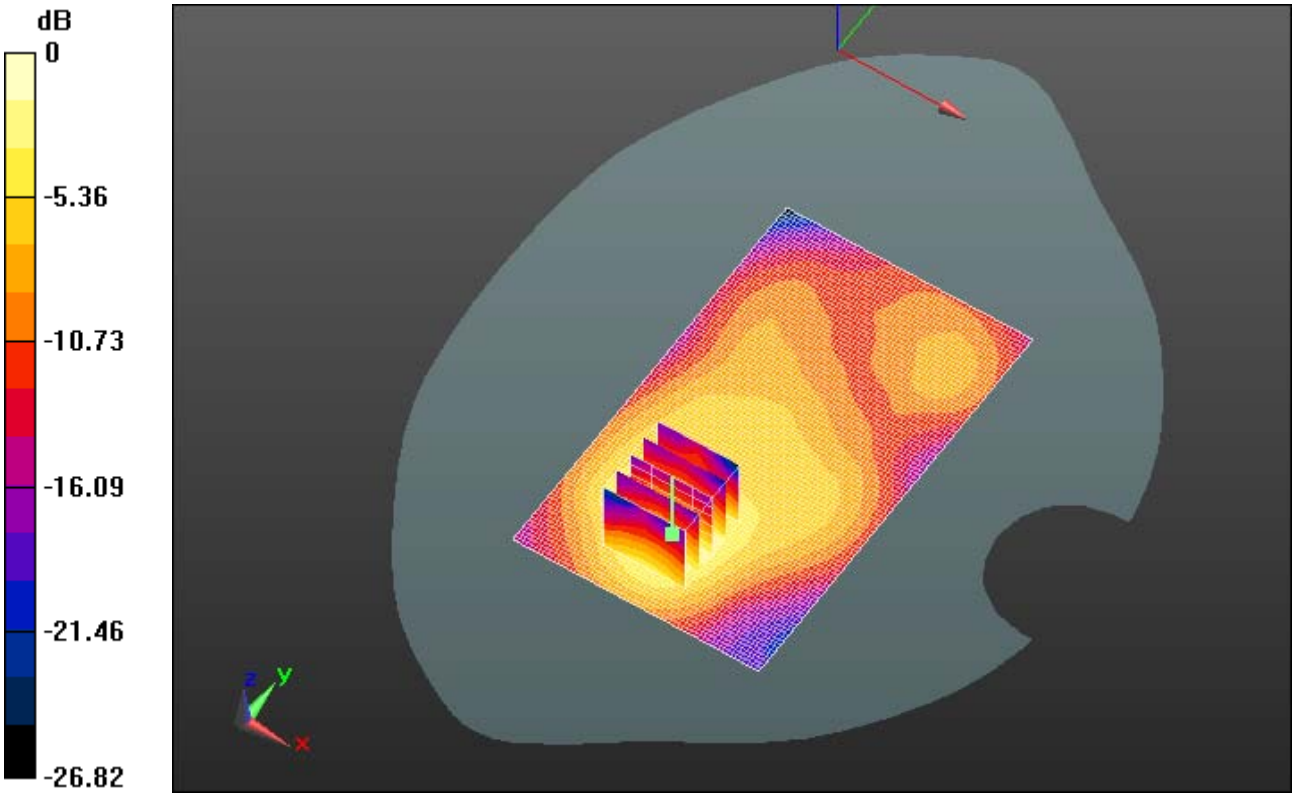

0 dB = 0.090mW/g = -20.92 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Left_802.11b_mid_chan_amb_temp_22.9_liq_temp_22.3C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A211C01

Communication System: 802.11 b (2450); Frequency: 2437 MHz
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.899 mho/m; ε_r = 52.043; 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) = 0.023 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 2.021 V/m; Power Drift = 0.36 dB
Peak SAR (extrapolated) = 0.0390
SAR(1 g) = 0.020 mW/g; SAR(10 g) = 0.011 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.025 mW/g

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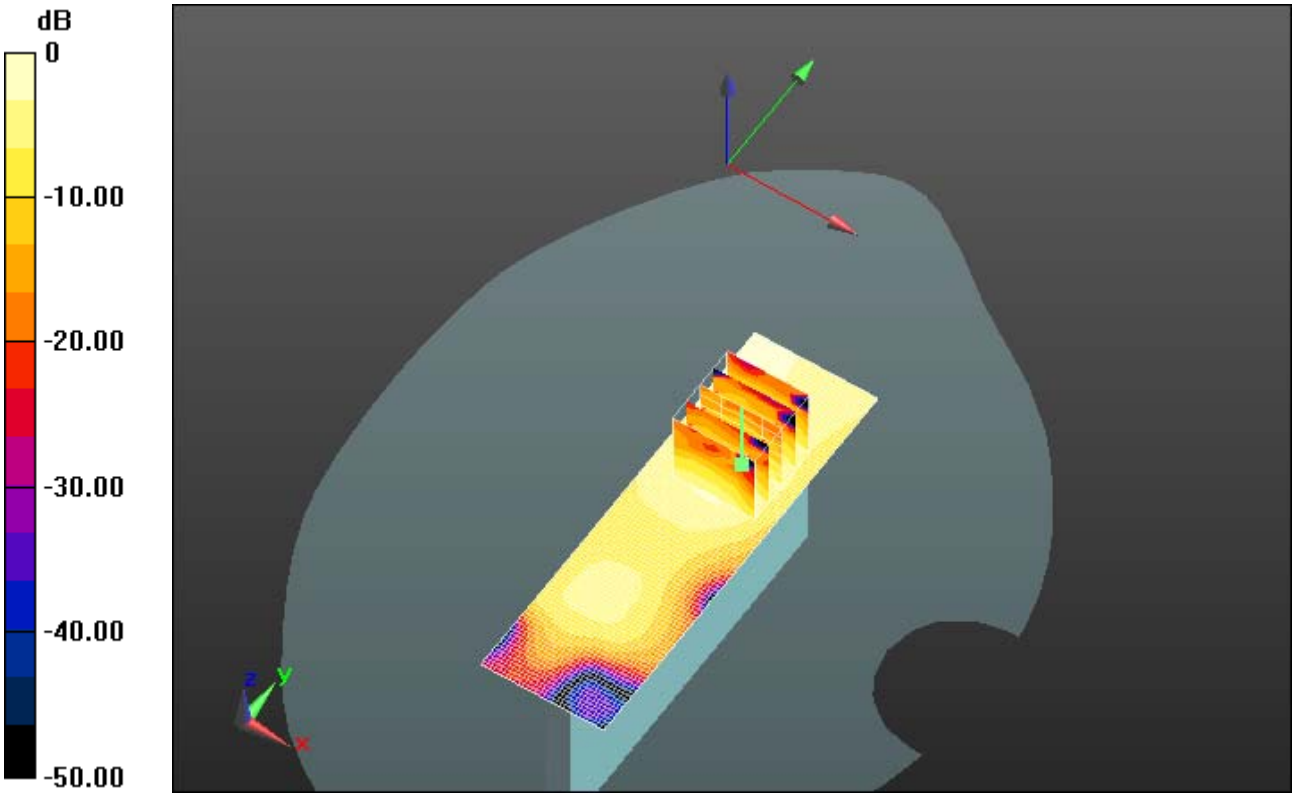

0 dB = 0.030mW/g = -30.46 dB mW/g

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Date/Time: 6/21/2012 2:07:15 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Right_802.11b_mid_chan_amb_temp_22.4_liq_temp_22.3C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A211C01

Communication System: 802.11 b (2450); Frequency: 2437 MHz
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.899 mho/m; ε_r = 52.043; 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) = 0.026 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 2.689 V/m; Power Drift = 0.19 dB
Peak SAR (extrapolated) = 0.0380
SAR(1 g) = 0.021 mW/g; SAR(10 g) = 0.012 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.025 mW/g

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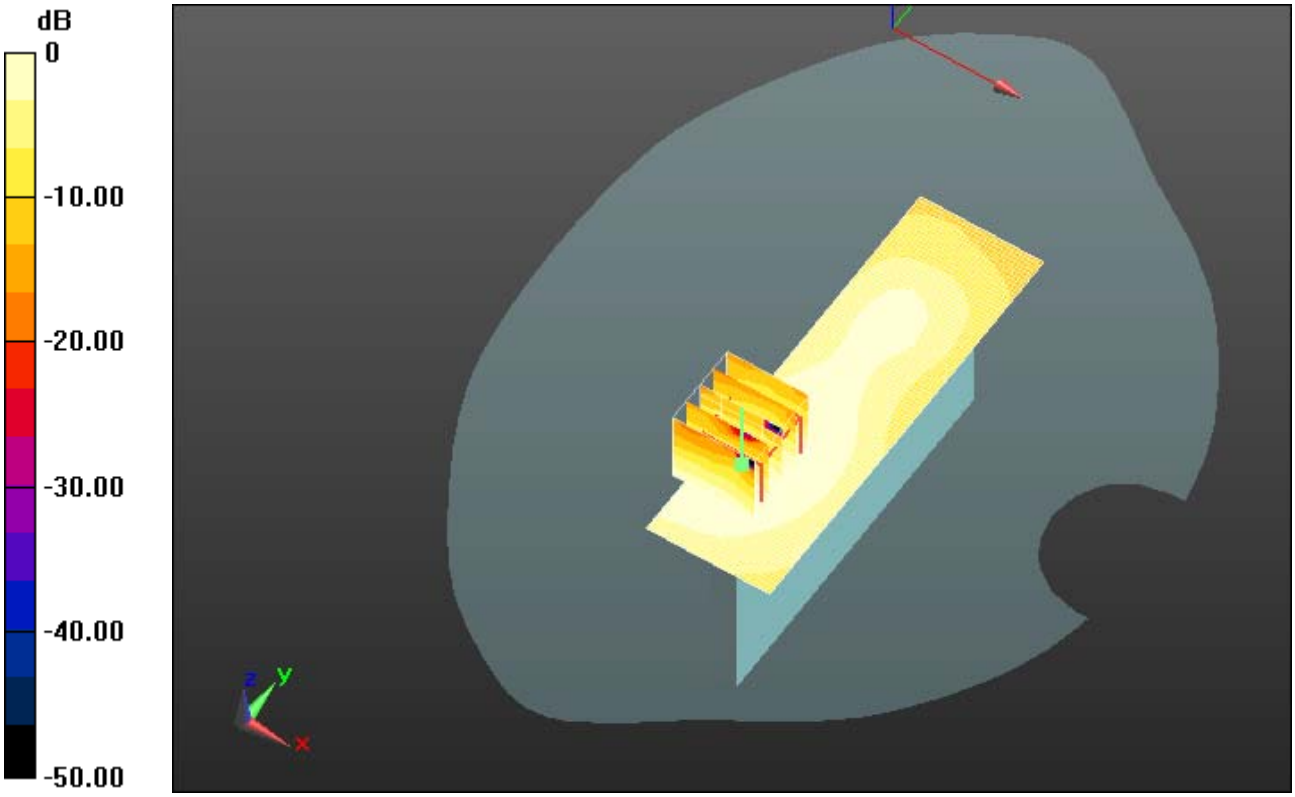

0 dB = 0.020mW/g = -33.98 dB mW/g

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Date/Time: 6/21/2012 12:49:38 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Top_802.11b_mid_chan_amb_temp_22.7_liq_temp_22.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A211C01

Communication System: 802.11 b (2450); Frequency: 2437 MHz
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.899 mho/m; ε_r = 52.043; 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) = 0.095 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 6.424 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.1270
SAR(1 g) = 0.069 mW/g; SAR(10 g) = 0.038 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.085 mW/g

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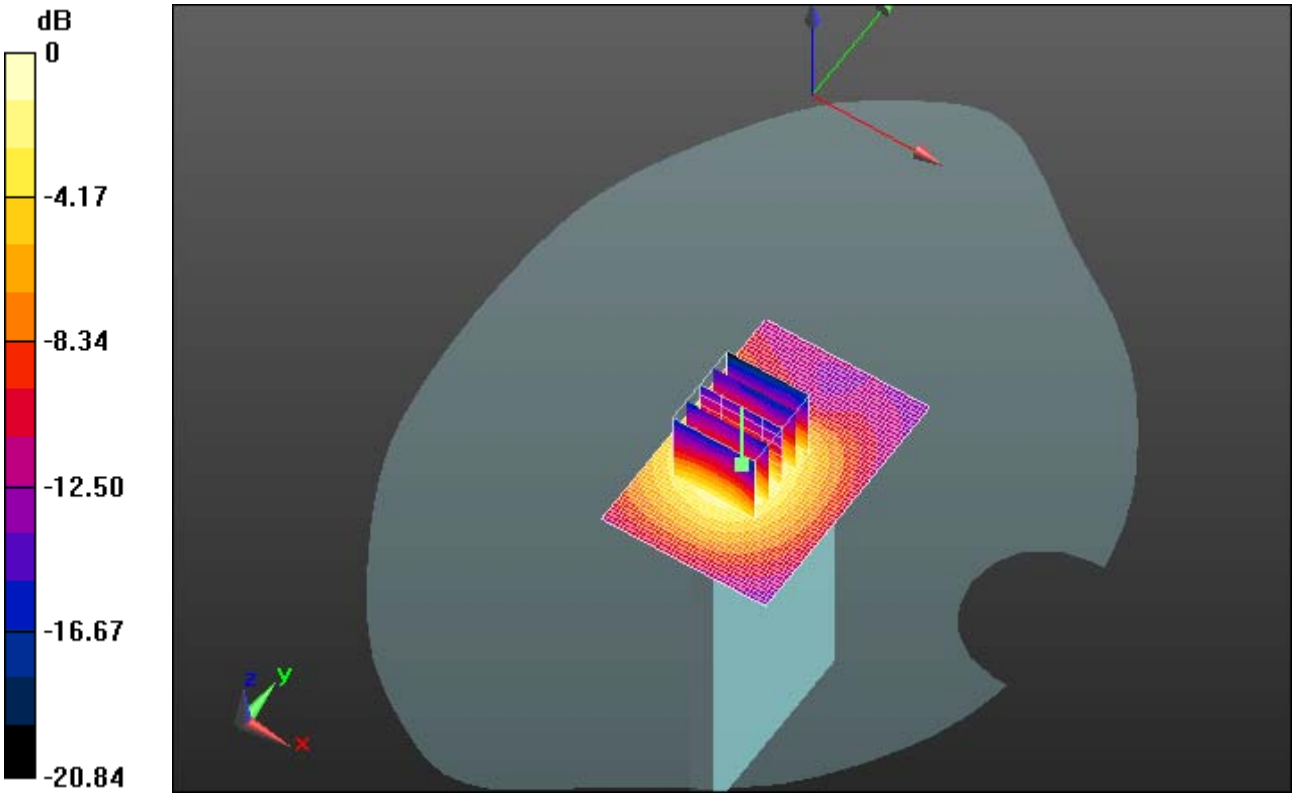

0 dB = 0.090mW/g = -20.92 dB mW/g

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Date/Time: 6/21/2012 2:32:12 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_Headset_802.11b_mid_chan_amb_temp_22.8_liq_temp_22.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A211C01

Communication System: 802.11 b (2450); Frequency: 2437 MHz
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.899 mho/m; ε_r = 52.043; 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) = 0.406 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 2.709 V/m; Power Drift = 0.21 dB
Peak SAR (extrapolated) = 0.8810
SAR(1 g) = 0.398 mW/g; SAR(10 g) = 0.170 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.514 mW/g

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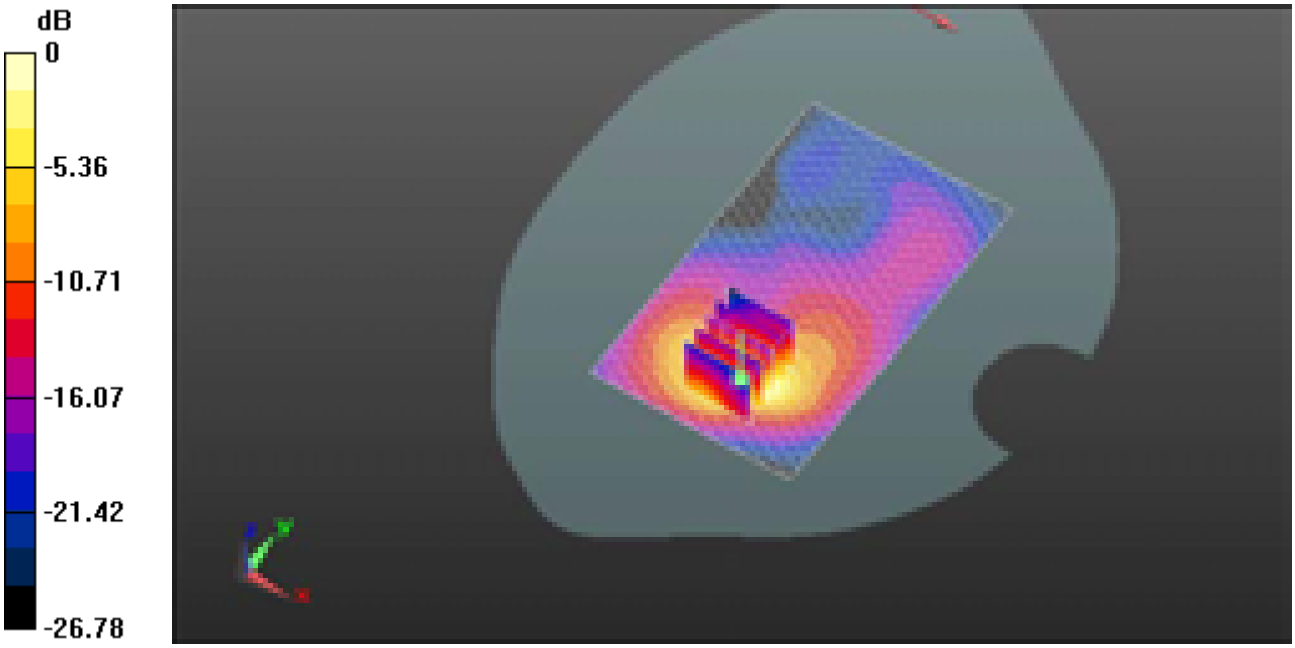

0 dB = 0.510mW/g = -5.85 dB mW/g

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Date/Time: 9/13/2012 11:50:23 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_802.11b_low_chan

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A8C7018

Communication System: 802.11 b (2450); Frequency: 2412 MHz
Medium parameters used (interpolated): f = 2412 MHz; σ = 1.866 mho/m; ε_r = 52.901; 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) = 0.774 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 3.922 V/m; Power Drift = 0.0063 dB
Peak SAR (extrapolated) = 1.9630
SAR(1 g) = 0.816 mW/g; SAR(10 g) = 0.325 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.031 mW/g

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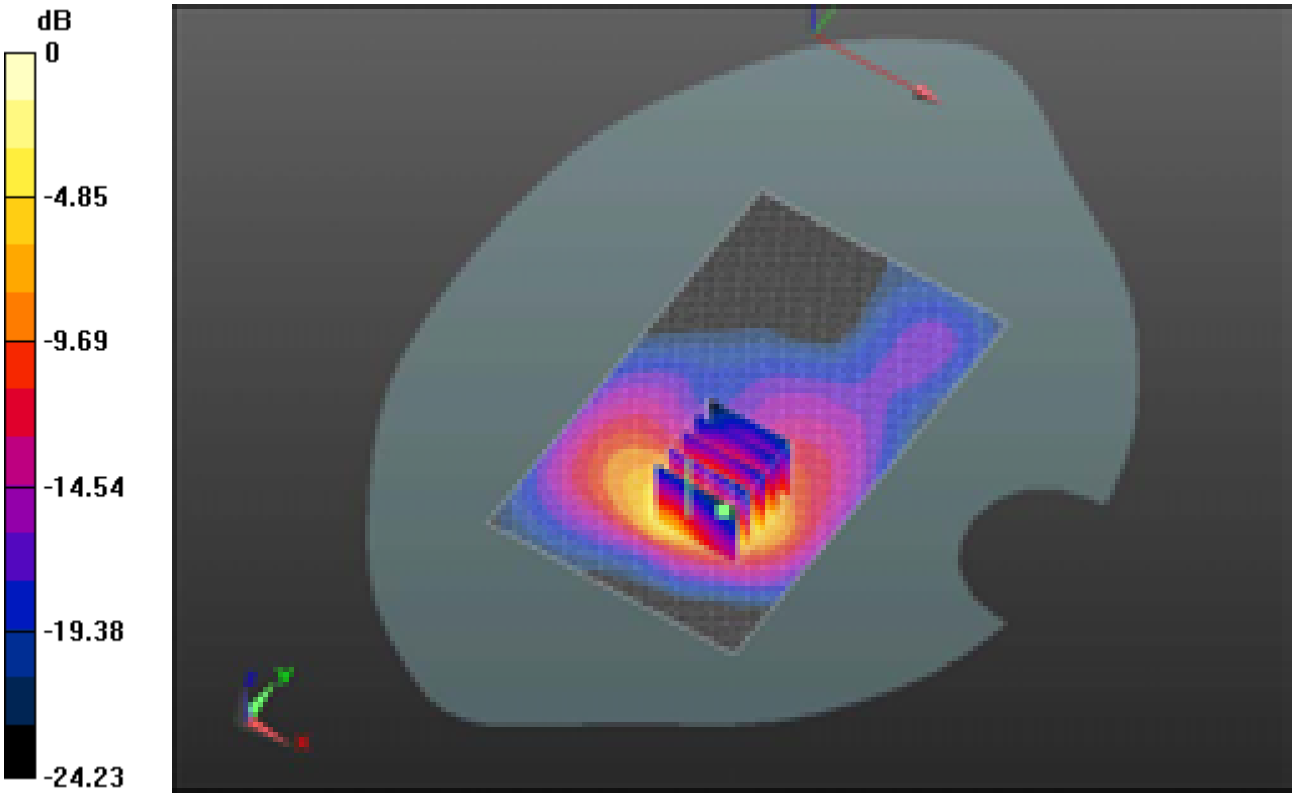

0 dB = 1.030mW/g = 0.26 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_802.11b_mid_chan_amb_temp_23.8_liq_temp_21.2C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A8C7018

Communication System: 802.11 b (2450); Frequency: 2437 MHz
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.896 mho/m; ε_r = 52.825; 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) = 0.793 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 3.695 V/m; Power Drift = 0.26 dB
Peak SAR (extrapolated) = 1.9610
SAR(1 g) = 0.816 mW/g; SAR(10 g) = 0.320 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.000 mW/g

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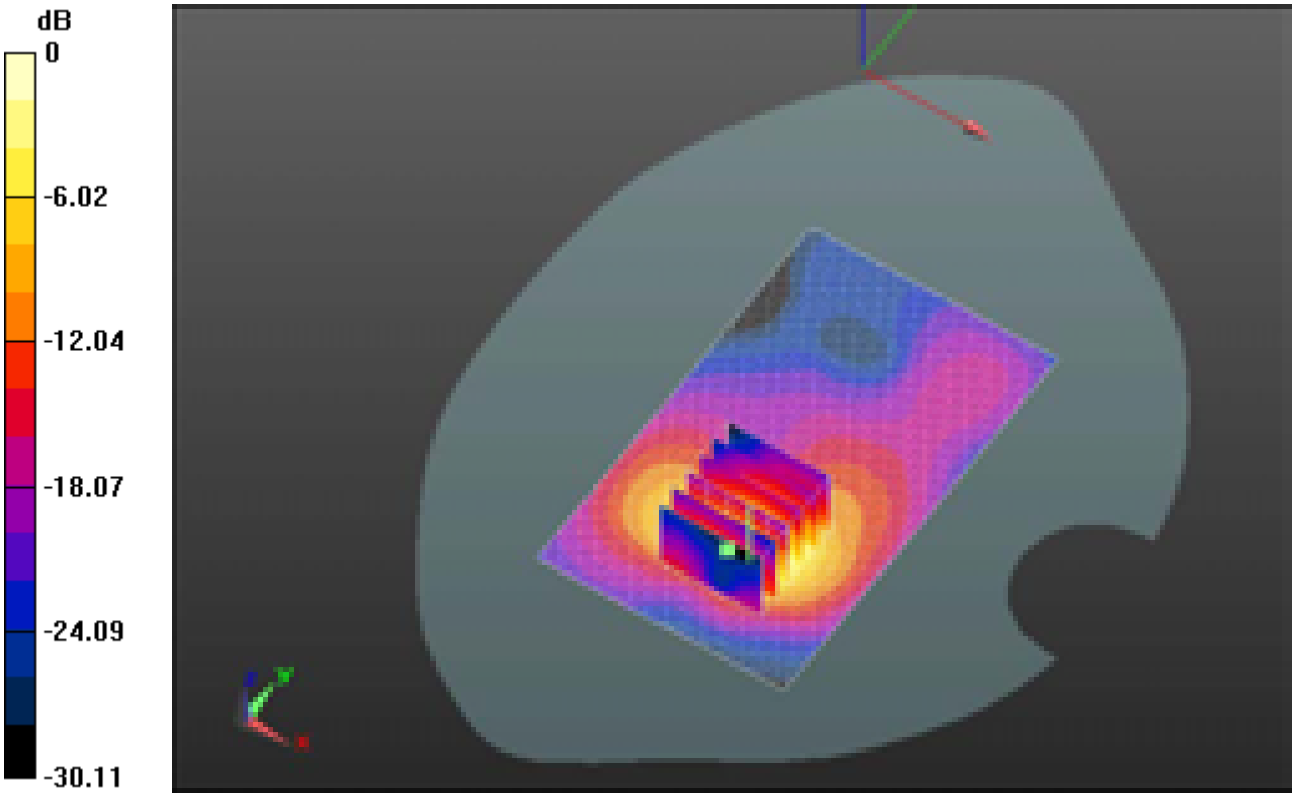

0 dB = 1.000mW/g = 0 dB mW/g

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Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_802.11b_high_chan_amb_temp_23.3_liq_temp_21.1C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A8C7018

Communication System: 802.11 b (2450); Frequency: 2462 MHz
Medium parameters used (interpolated): f = 2462 MHz; σ = 1.926 mho/m; ε_r = 52.718; 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) = 0.833 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 4.398 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 1.9040
SAR(1 g) = 0.803 mW/g; SAR(10 g) = 0.323 mW/g

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

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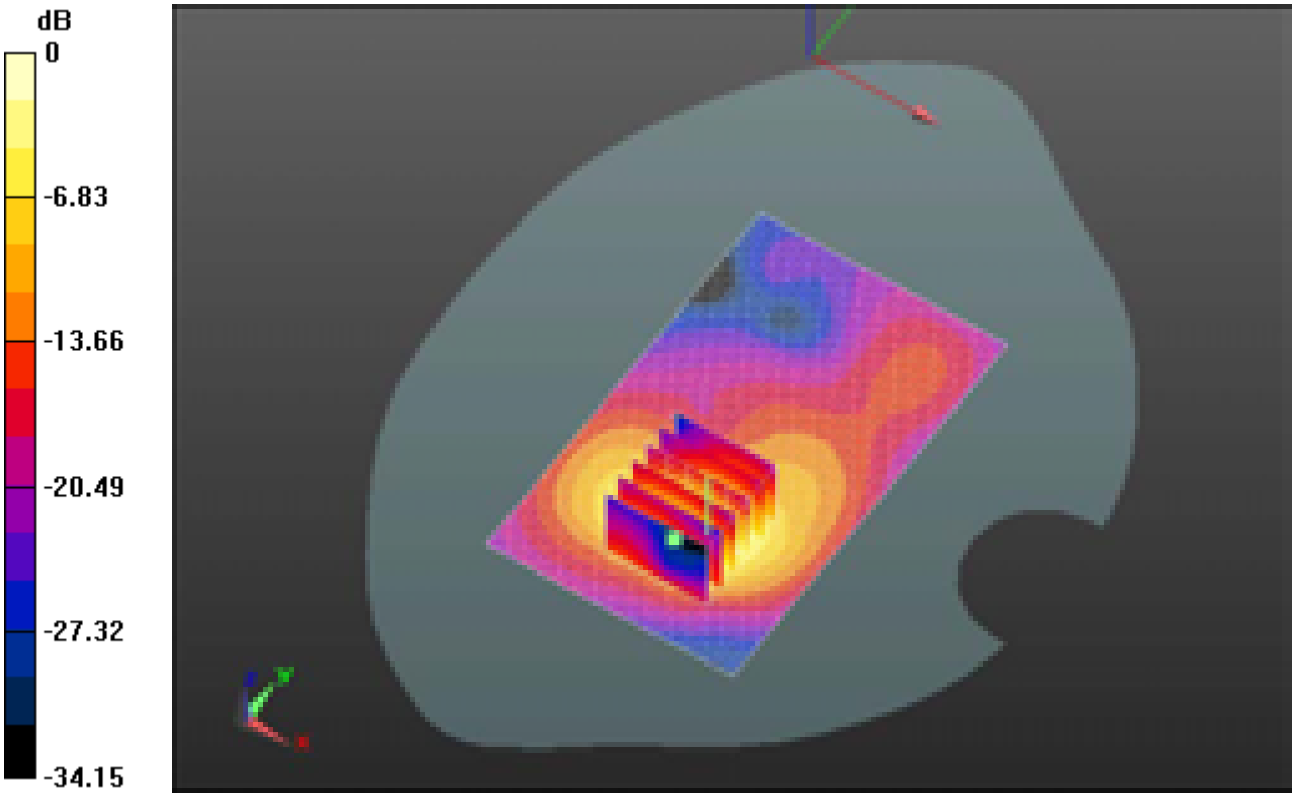

0 dB = 0.960mW/g = -0.35 dB mW/g

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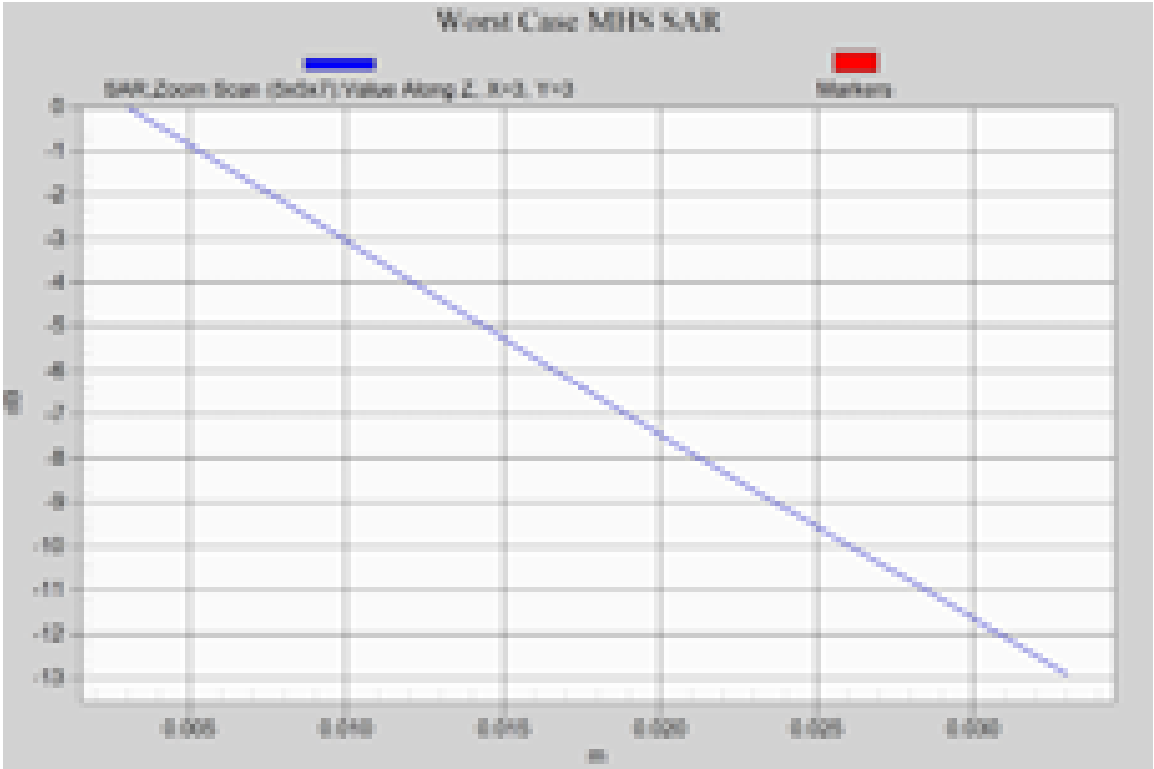
Z axis plot for the worst case body configuration



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