
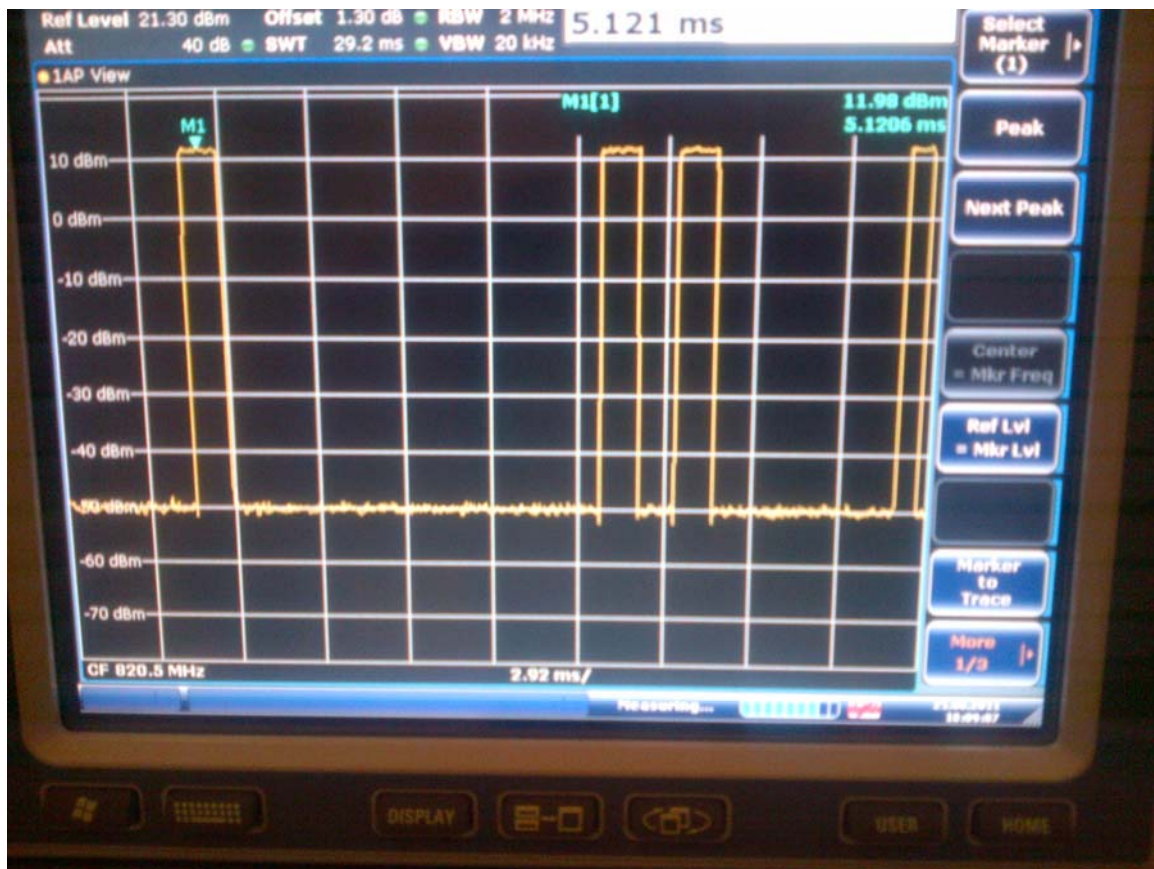
	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDS41CW		Page 1 (106)
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Annex A: Measurement data and plots

A.1 Spectrum analyser plots: CDMA, CW, 80%AM, signals

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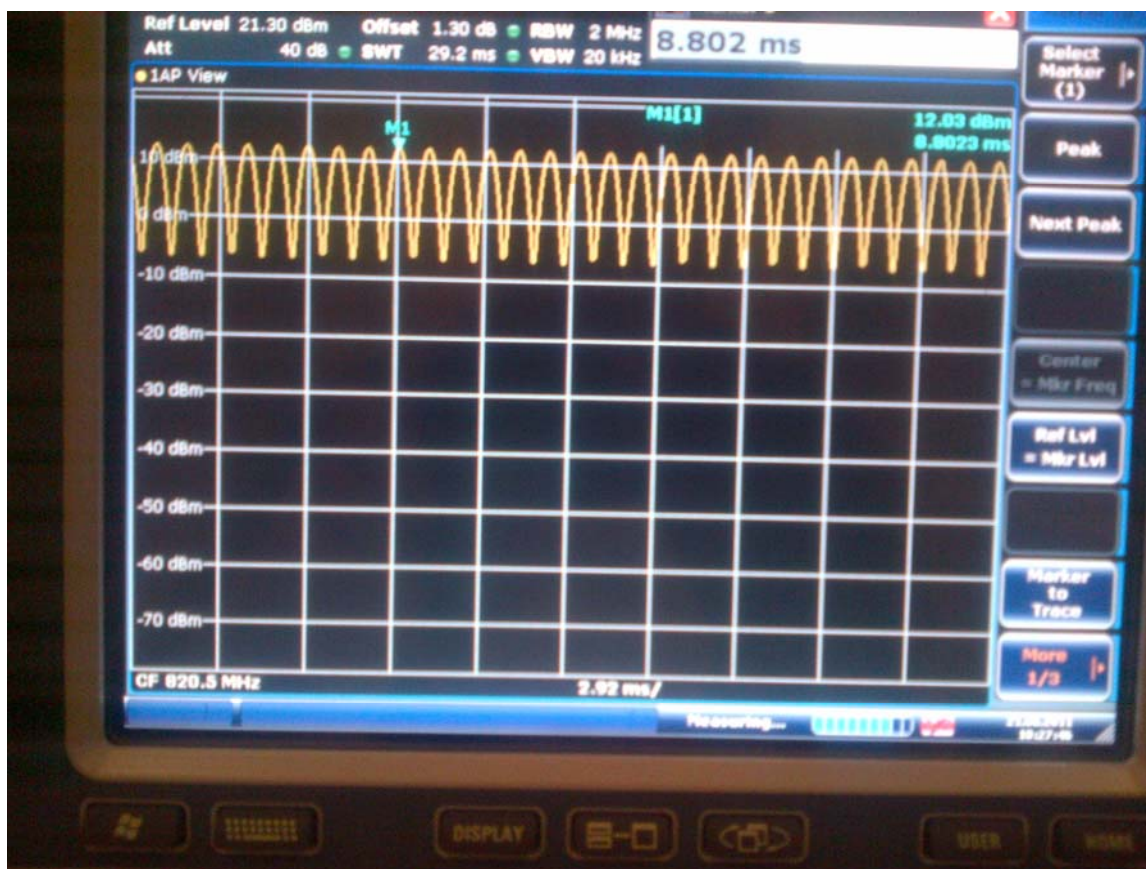
CDMA BC10 800 MHz 1/8th

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CW 800 MHz

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AM 80% 800 MHz

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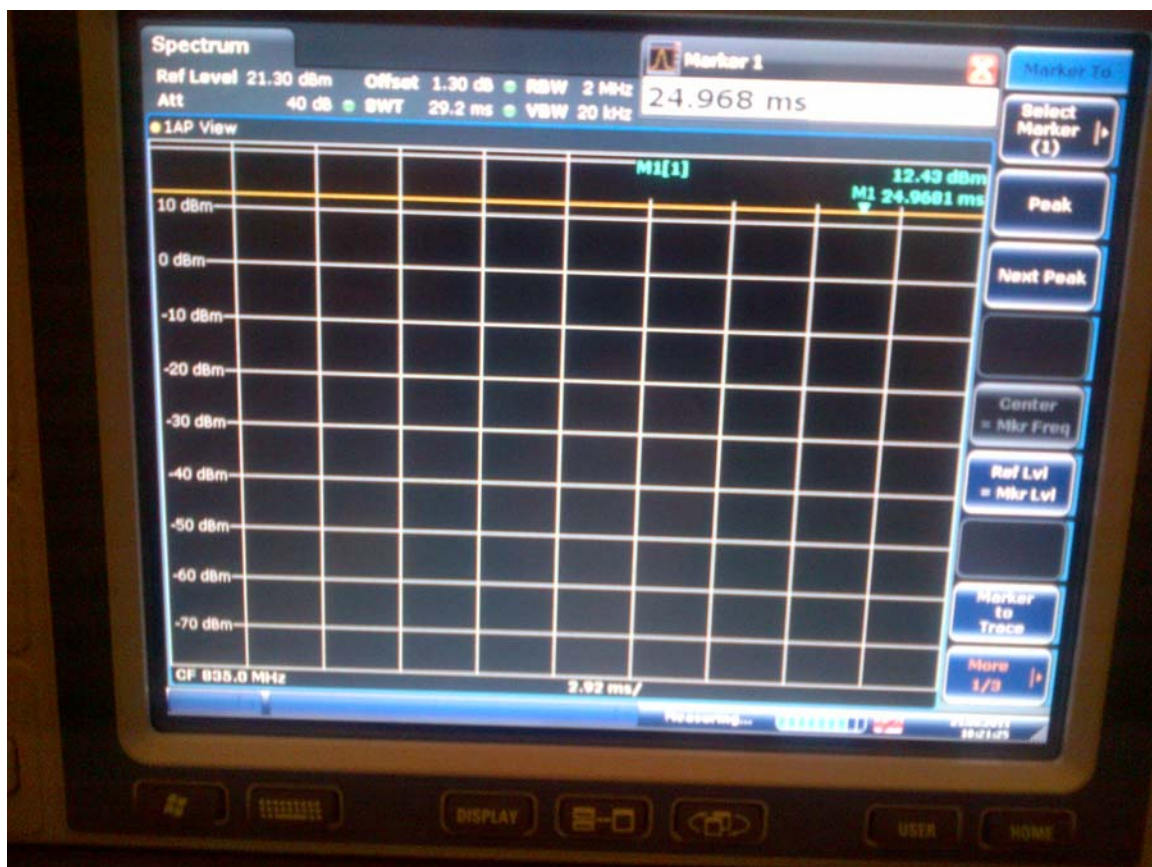
CDMA Cell 835 MHz

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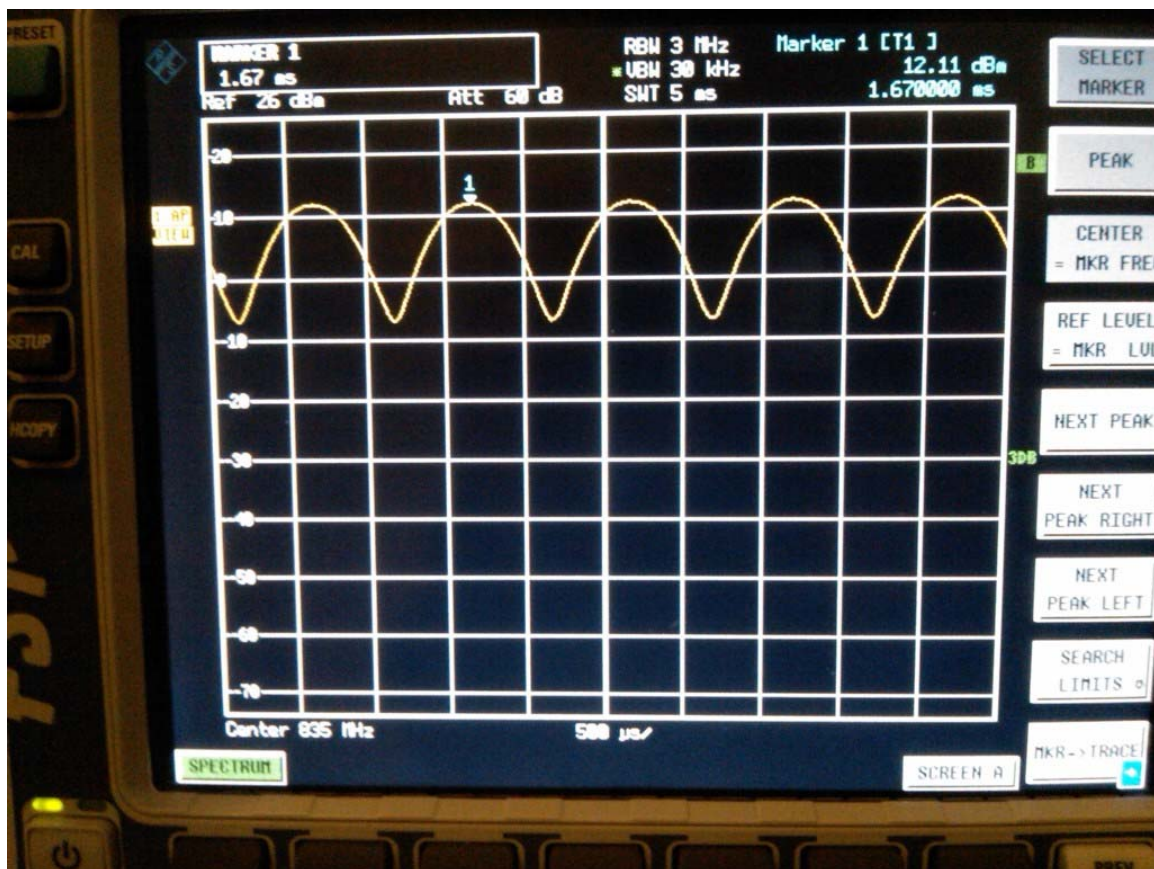
CDMA Cell 835 MHz 1/8th

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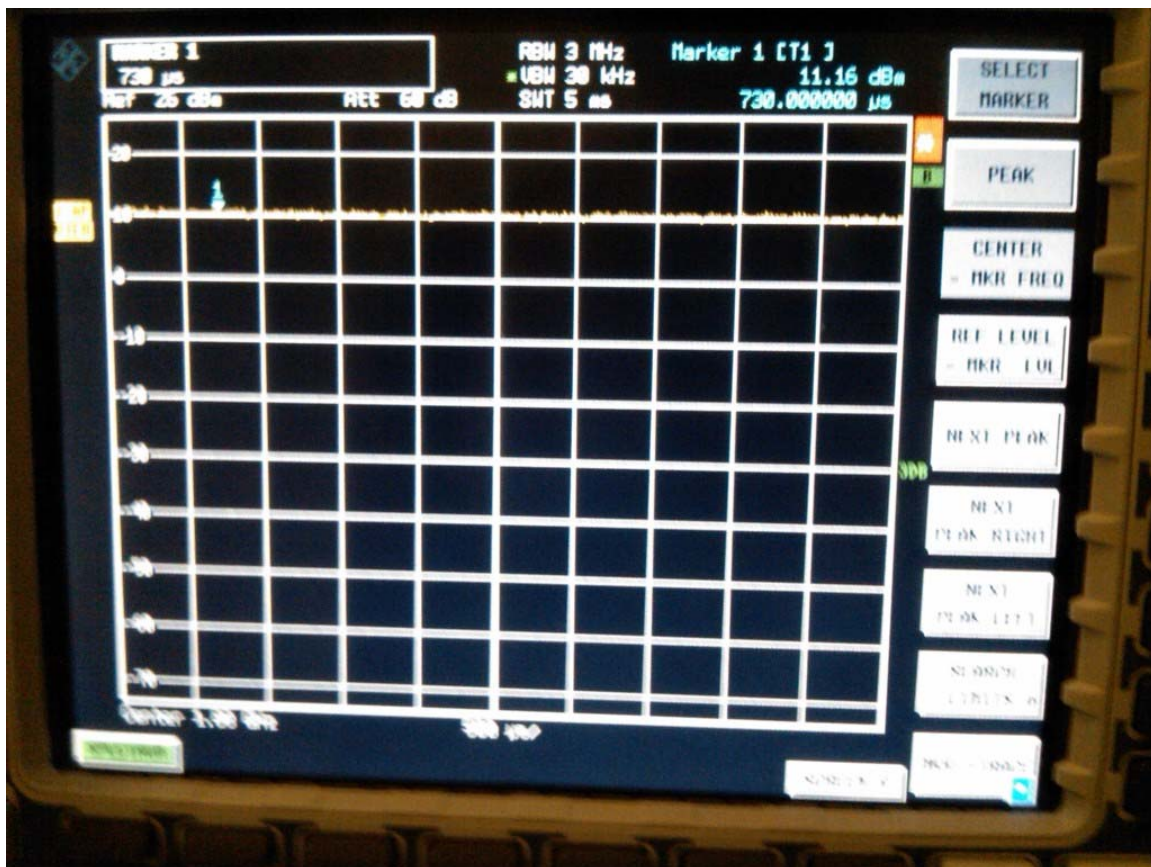
CW 835 MHz

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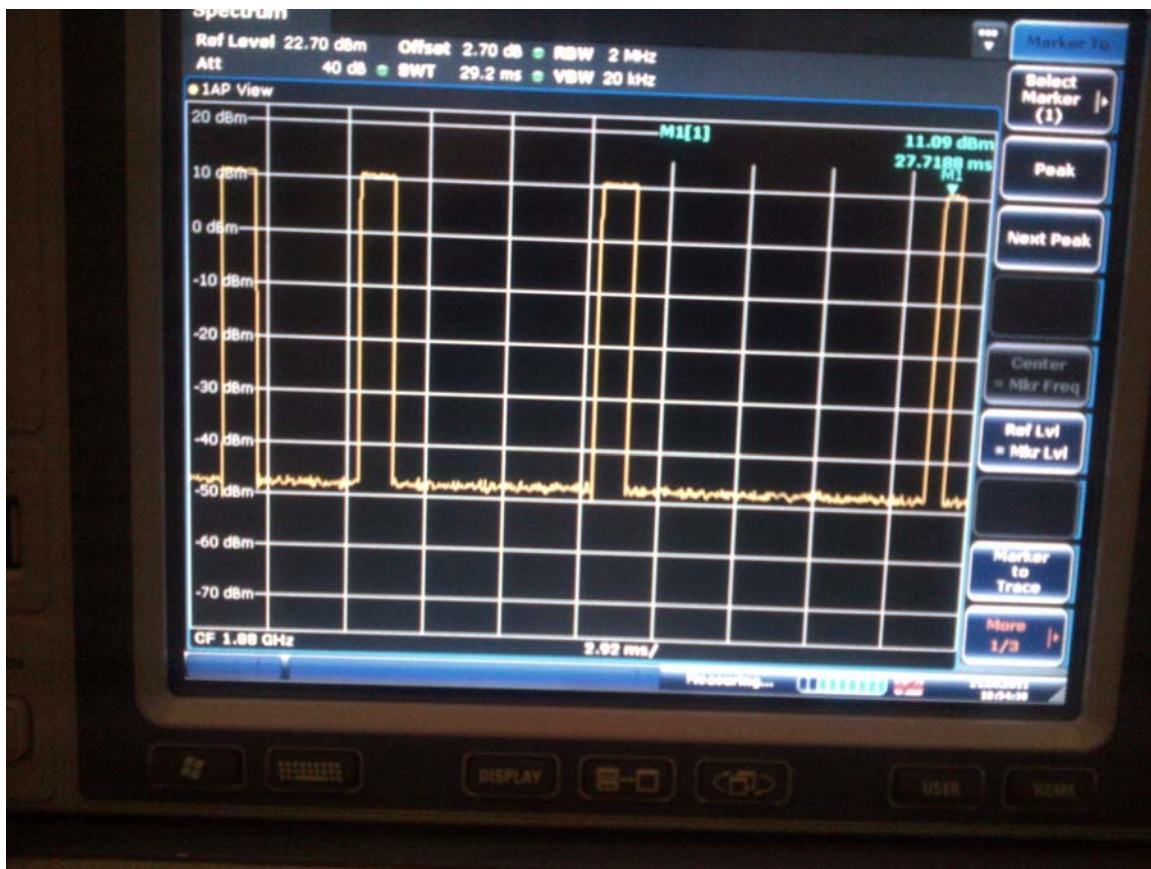
AM 80% 835 MHz

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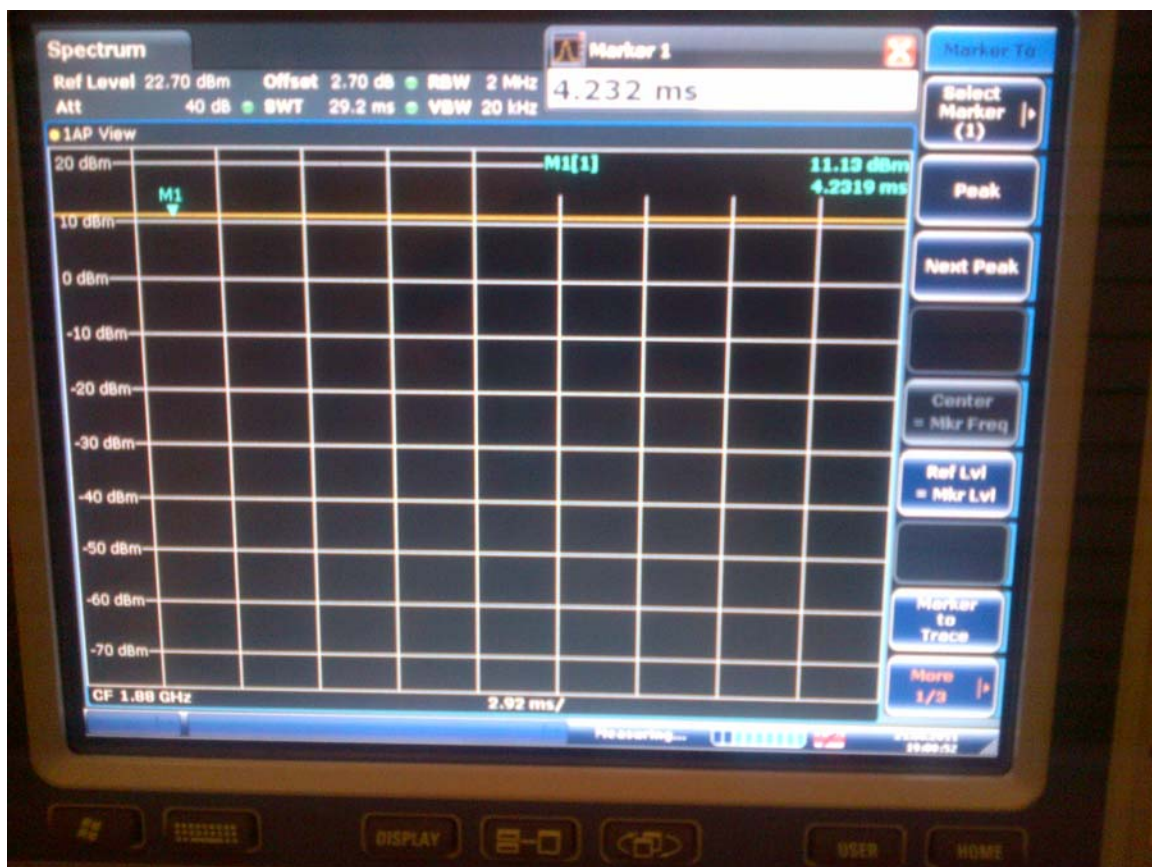
CDMA 1880 MHz

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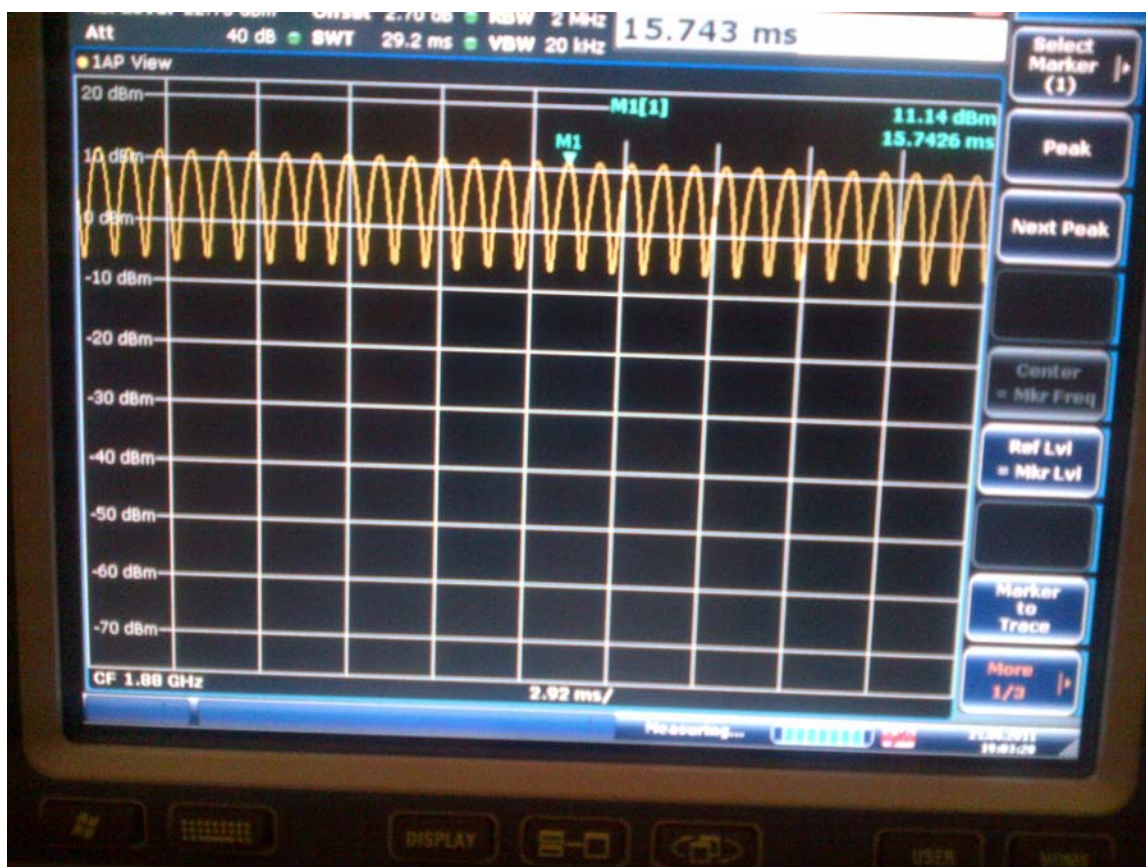
CDMA 1880 MHz 1/8 th

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CW 1880 MHz


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AM 80 % 1880 MHz

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A.2 Dipole validation and probe modulation factor plots

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Date/Time: 6/21/2011 3:33:41 PM, Date/Time: 6/21/2011 4:08:39 PM,
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 Date/Time: 6/21/2011 4:36:36 PM, Date/Time: 6/21/2011 4:42:31 PM,
 Date/Time: 6/21/2011 5:10:27 PM

Test Laboratory: RIM Testing Services


HAC RF_E-Field_validation_PMF_835 MHz

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 32E4DBBB

Communication System: CW, Communication System: CDMA 850,
 Communication System: CDMA 800; Communication System Band: D835 (835.0
 MHz), Communication System Band: CDMA 2000 Cellular, Communication
 System Band: CDMA 2000 BC 10 ; Frequency: 835 MHz, Frequency: 820.5
 MHz; Communication System PAR: 0, Communication System PAR: 9.19 dB
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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Dipole E-Field measurement/E Scan _CW_20dB_Validation -
measurement distance from the probe sensor center to CD835 Dipole
= 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid:
dx=5mm, dy=5mm
Maximum value of peak Total field = 157.1 V/m
Probe Modulation Factor = 1.000
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 120.5 V/m; Power Drift = 0.01 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1 150.7 M4	Grid 2 157.1 M4	Grid 3 154.2 M4
Grid 4 84.223 M4	Grid 5 87.459 M4	Grid 6 85.298 M4
Grid 7 151.8 M4	Grid 8 155.1 M4	Grid 9 152.4 M4

Cursor:

Total = 157.1 V/m
E Category: M4
Location: -0.5, -79, 4.7 mm

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Dipole E-Field measurement/E Scan _CW_CDMA835_PMF - measurement distance from the probe sensor center to CD835 Dipole = 10mm 2/Hearing Aid Compatibility Test (41x361x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 60.020 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 45.311 V/m; Power Drift = -0.13 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m


Grid 1 58.156 M4	Grid 2 60.020 M4	Grid 3 58.370 M4
Grid 4 31.911 M4	Grid 5 32.721 M4	Grid 6 32.052 M4
Grid 7 57.400 M4	Grid 8 58.565 M4	Grid 9 57.669 M4

Cursor:

Total = 60.020 V/m

E Category: M4

Location: 0, -79, 4.7 mm

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**Dipole E-Field measurement/E Scan _AM80%_CDMA835
_PMF - measurement distance from the probe sensor center
to CD835 Dipole = 10mm 2 2/Hearing Aid Compatibility Test**

(41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 37.844 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 28.705 V/m; Power Drift = -0.04 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m


Grid 1 36.315 M4	Grid 2 37.844 M4	Grid 3 37.101 M4
Grid 4 20.380 M4	Grid 5 21.197 M4	Grid 6 20.358 M4
Grid 7 36.696 M4	Grid 8 37.645 M4	Grid 9 36.579 M4

Cursor:

Total = 37.844 V/m

E Category: M4

Location: -0.5, -79, 4.7 mm

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**Dipole E-Field measurement/E Scan _CDMA835_1_8th_PMF
- measurement distance from the probe sensor center to
CD835 Dipole = 10mm 2 2 2/Hearing Aid Compatibility Test**

(41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 23.083 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 16.053 V/m; Power Drift = 0.10 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m


Grid 1 21.961 M4	Grid 2 22.888 M4	Grid 3 21.653 M4
Grid 4 11.102 M4	Grid 5 11.571 M4	Grid 6 11.296 M4
Grid 7 22.471 M4	Grid 8 23.083 M4	Grid 9 21.920 M4

Cursor:

Total = 23.083 V/m

E Category: M4

Location: 0, 74.5, 4.7 mm

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Dipole E-Field measurement/E Scan _CW_CDMA820_PMF - measurement distance from the probe sensor center to CD835 Dipole = 10mm 2 2/Hearing Aid Compatibility Test

(41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 55.263 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 42.373 V/m; Power Drift = -0.17 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m


Grid 1 53.183 M4	Grid 2 55.263 M4	Grid 3 54.275 M4
Grid 4 29.910 M4	Grid 5 30.477 M4	Grid 6 30.376 M4
Grid 7 51.934 M4	Grid 8 52.767 M4	Grid 9 52.285 M4

Cursor:

Total = 55.263 V/m

E Category: M4

Location: -0.5, -79, 4.7 mm

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Dipole E-Field measurement/E Scan

_AM80%_CDMA820_PMF - measurement distance from the probe sensor center to CD835 Dipole = 10mm 2 2 2/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 35.058 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 26.483 V/m; Power Drift = -0.09 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m


Grid 1 33.822 M4	Grid 2 35.058 M4	Grid 3 34.273 M4
Grid 4 18.915 M4	Grid 5 19.532 M4	Grid 6 19.355 M4
Grid 7 33.019 M4	Grid 8 33.776 M4	Grid 9 33.009 M4

Cursor:

Total = 35.058 V/m

E Category: M4

Location: -0.5, -79, 4.7 mm

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**Dipole E-Field measurement/E Scan _CDMA820_1_8th_PMF
- measurement distance from the probe sensor center to
CD835 Dipole = 10mm 2 2 2 2/Hearing Aid Compatibility Test**

(41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 23.238 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 15.381 V/m; Power Drift = -0.19 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m


Grid 1 21.017 M4	Grid 2 23.238 M4	Grid 3 22.443 M4
Grid 4 12.305 M4	Grid 5 12.231 M4	Grid 6 11.028 M4
Grid 7 19.779 M4	Grid 8 21.952 M4	Grid 9 21.211 M4

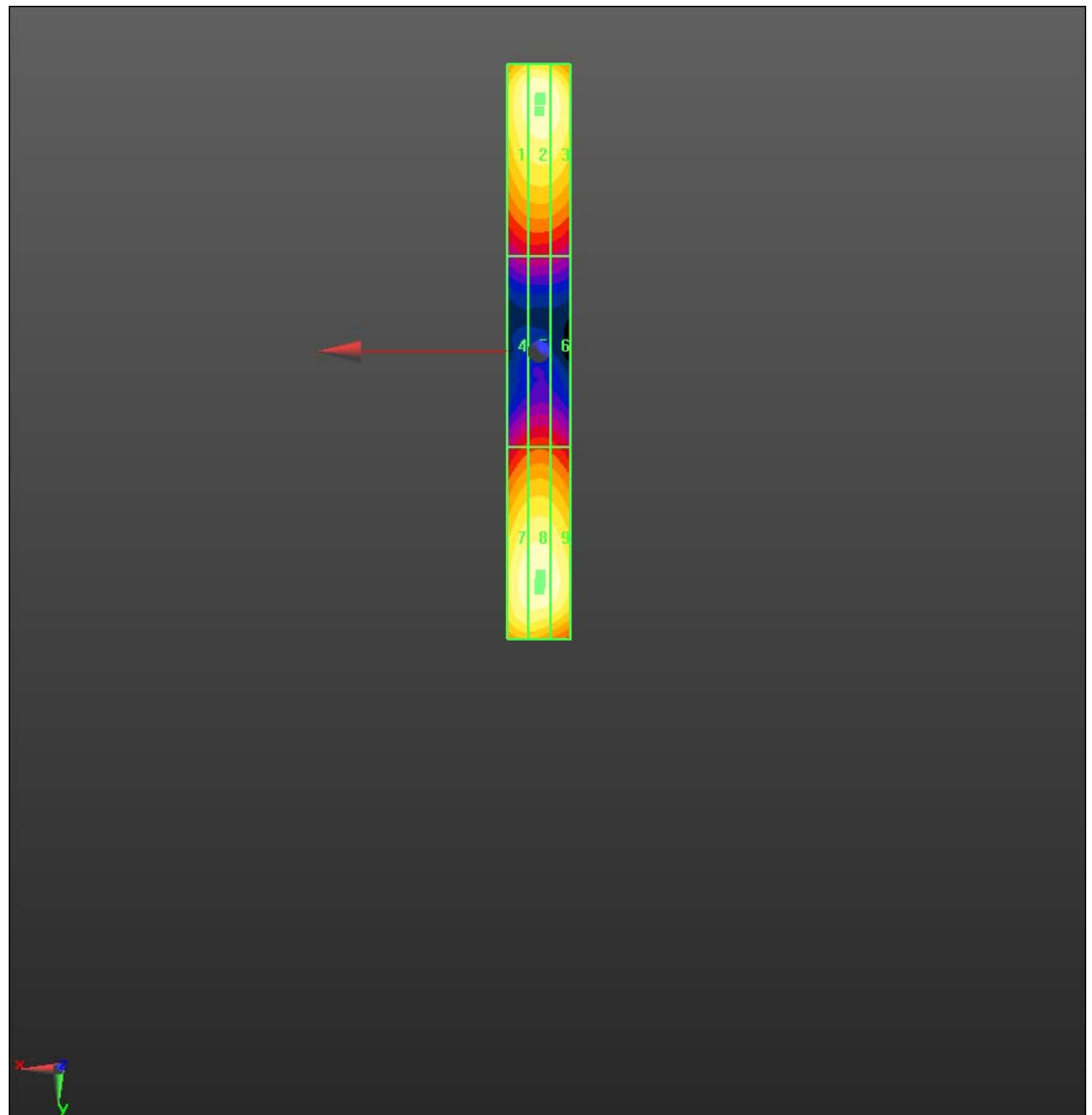
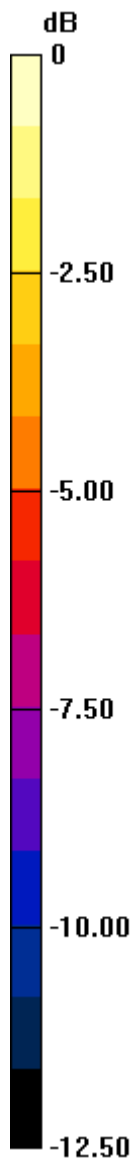
Cursor:

Total = 23.239 V/m


E Category: M4

Location: -0.5, -79.5, 4.7 mm

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0 dB = 157.1V/m

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Date/Time: 3/22/2011 2:51:34 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_PMF_CDMA_835 MHz

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: **32E4DBBB**

Communication System: CDMA 800; Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 835 MHz; Communication System PAR: 0 dB

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Phantom section: RF Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid

Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm


Maximum value of peak Total field = 63.653 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 45.492 V/m; Power Drift = 0.04 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

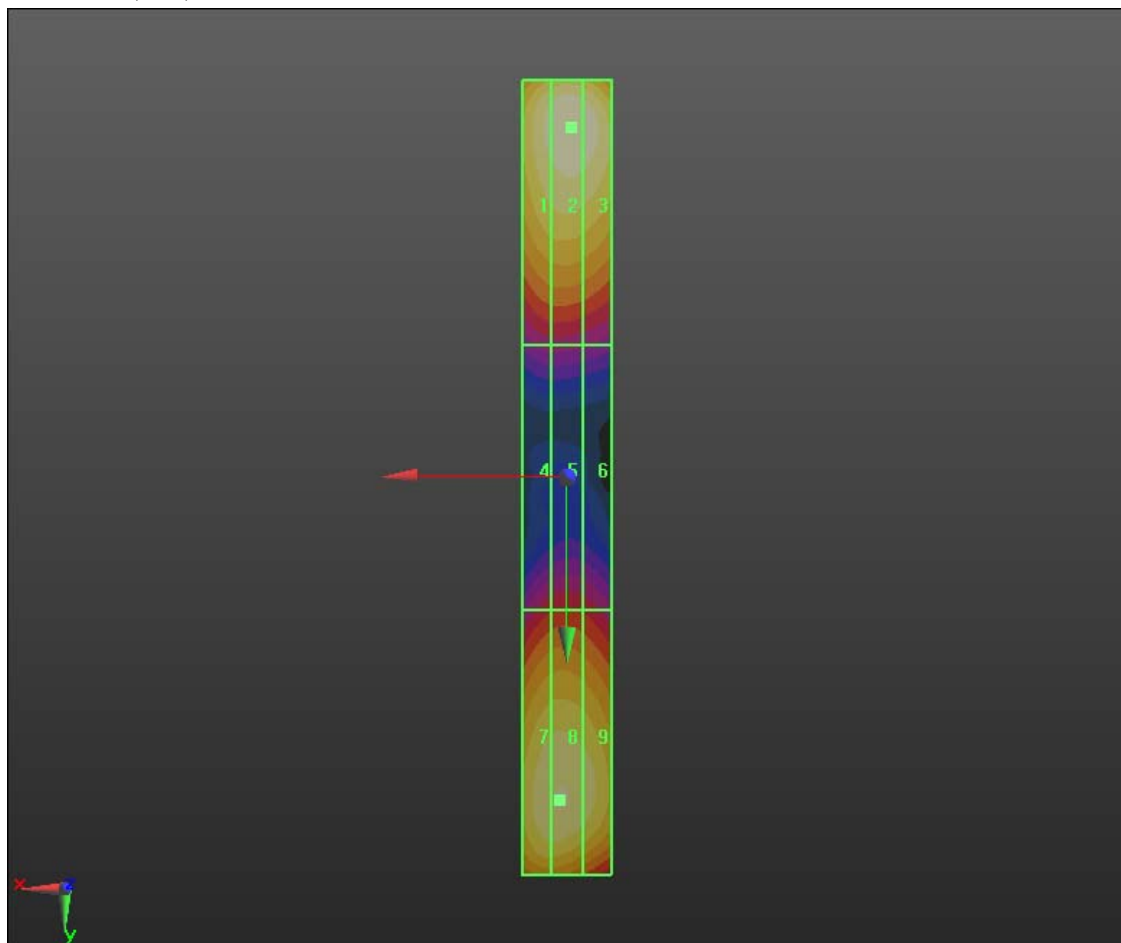
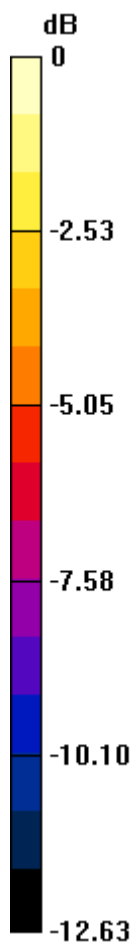
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Peak E-field in V/m


Grid 1 60.457 M4	Grid 2 63.653 M4	Grid 3 62.702 M4
Grid 4 32.119 M4	Grid 5 32.806 M4	Grid 6 32.009 M4
Grid 7 57.694 M4	Grid 8 58.081 M4	Grid 9 56.094 M4

Cursor:

Total = 63.653 V/m
E Category: M4
Location: -1, -79, 4.7 mm



0 dB = 63.650V/m

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Date/Time: 6/21/2011 5:35:48 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_validation_PMF_835 MHz_CDMA820

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: **32E4DBBB**

Communication System: CDMA 800; Communication System Band: CDMA 2000

BC 10 ; Frequency: 820.5 MHz;Communication System PAR: 0 dB

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan _CDMA820_PMF - measurement

distance from the probe sensor center to CD835 Dipole = 10mm 2 2 2

2 2/Hearing Aid Compatibility Test (41x361x1): Measurement grid:

dx=5mm, dy=5mm


Maximum value of peak Total field = 57.535 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 42.235 V/m; Power Drift = -0.03 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)


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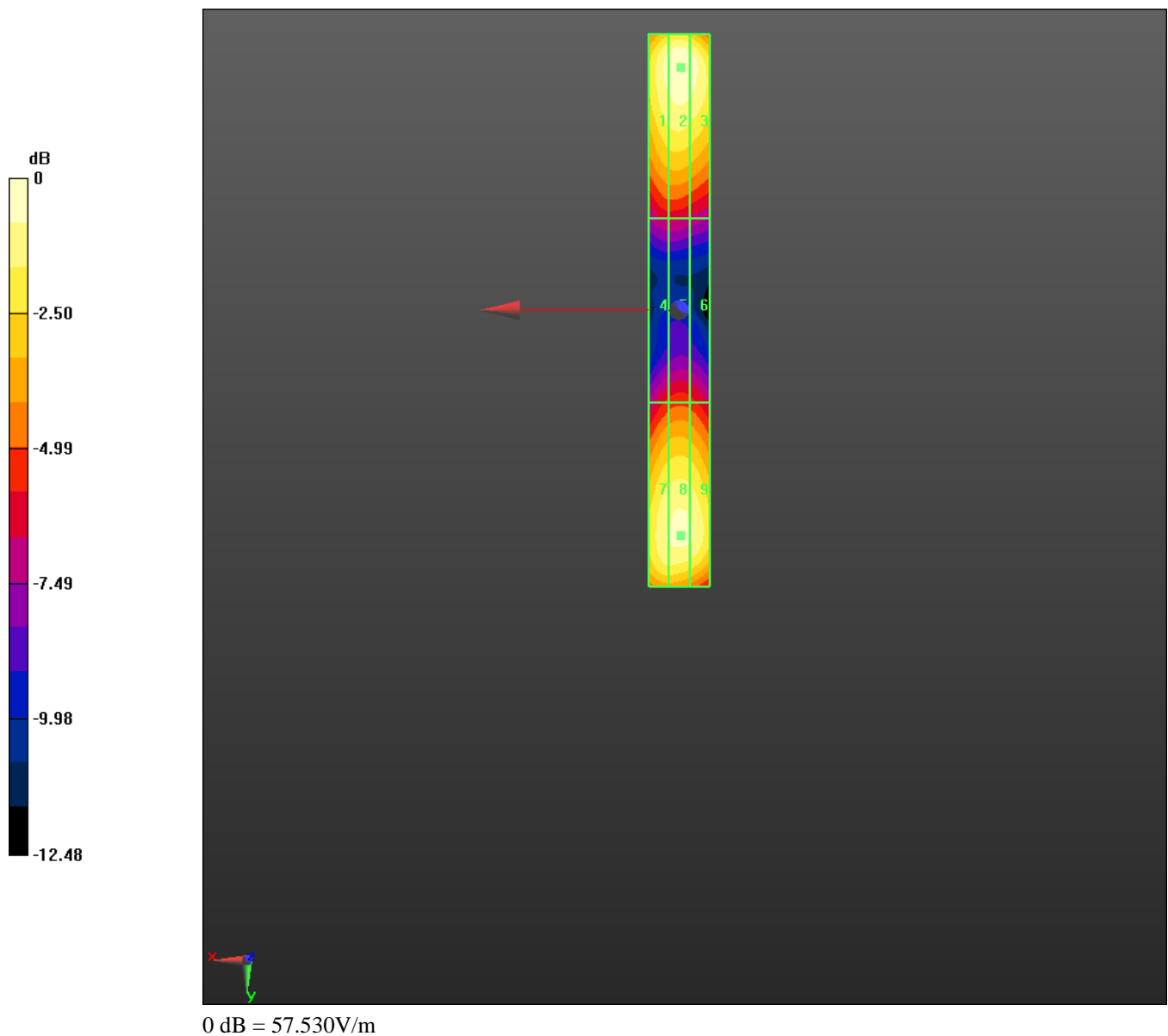
Peak E-field in V/m


Grid 1 54.607 M4	Grid 2 57.535 M4	Grid 3 56.112 M4
Grid 4 30.566 M4	Grid 5 31.704 M4	Grid 6 30.908 M4
Grid 7 52.593 M4	Grid 8 53.613 M4	Grid 9 53.191 M4

Cursor:

Total = 57.535 V/m
E Category: M4
Location: -0.5, -79, 4.7 mm

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Date/Time: 6/21/2011 5:50:59 PM, Date/Time: 6/21/2011 6:15:20 PM,
Date/Time: 6/21/2011 6:18:51 PM, Date/Time: 6/21/2011 6:28:10 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_validation_PMF_1880 MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 32E4DBBB

Communication System: CW, Communication System: CDMA 1900;

Communication System Band: D1900 (1900.0 MHz), Communication System
Band: CDMA 2000 PCS; Frequency: 1880 MHz; Communication System PAR: 0,
Communication System PAR: 9.19 dB


Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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Dipole E-Field measurement/E Scan - 1880_validation_measurement

distance from the probe sensor center to CD1880 Dipole =

10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 133.7 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 122.4 V/m; Power Drift = 0.04 dB

Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak E-field in V/m


Grid 1 128.8 M2	Grid 2 133.7 M2	Grid 3 127.5 M2
Grid 4 82.667 M3	Grid 5 87.106 M3	Grid 6 86.101 M3
Grid 7 120.7 M2	Grid 8 123.8 M2	Grid 9 121.9 M2

Cursor:

Total = 133.7 V/m

E Category: M2

Location: 0, -38, 4.7 mm

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Dipole E-Field measurement/E Scan -
CW_CDMA1900_measurement distance from the probe
sensor center to CD1880 Dipole = 10mm 2/Hearing Aid
Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 36.285 V/m
Probe Modulation Factor = 1.000
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 33.617 V/m; Power Drift = 0.04 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1 34.758 M4	Grid 2 36.285 M4	Grid 3 34.848 M4
Grid 4 22.360 M4	Grid 5 23.679 M4	Grid 6 23.521 M4
Grid 7 32.897 M4	Grid 8 33.681 M4	Grid 9 33.221 M4

Cursor:

Total = 36.285 V/m
E Category: M4
Location: 0, -38.5, 4.7 mm

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Author Data Andrew Becker	Dates of Test Mar. 22-23, June 19-22, 2011	Report No RTS-2604-1107-11	FCC ID L6ARDS40CW

**Dipole E-Field measurement/E Scan -
AM80%_CDMA1900_measurement distance from the probe
sensor center to CD1880 Dipole = 10mm 2 2/Hearing Aid**

Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 23.269 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 21.624 V/m; Power Drift = -0.02 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m


Grid 1 22.379 M4	Grid 2 23.269 M4	Grid 3 22.386 M4
Grid 4 14.427 M4	Grid 5 15.311 M4	Grid 6 15.198 M4
Grid 7 21.091 M4	Grid 8 21.728 M4	Grid 9 21.374 M4

Cursor:

Total = 23.269 V/m

E Category: M4

Location: 0, -38.5, 4.7 mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDS41CW		Page 33 (106)
Author Data Andrew Becker	Dates of Test Mar. 22-23, June 19-22, 2011	Report No RTS-2604-1107-11	FCC ID L6ARDS40CW


Dipole E-Field measurement/E Scan -
CDMA1900_1_8th_measurement distance from the probe sensor center to CD1880 Dipole = 10mm 2 2 2/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 14.129 V/m
Probe Modulation Factor = 1.000
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 13.323 V/m; Power Drift = -0.93 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

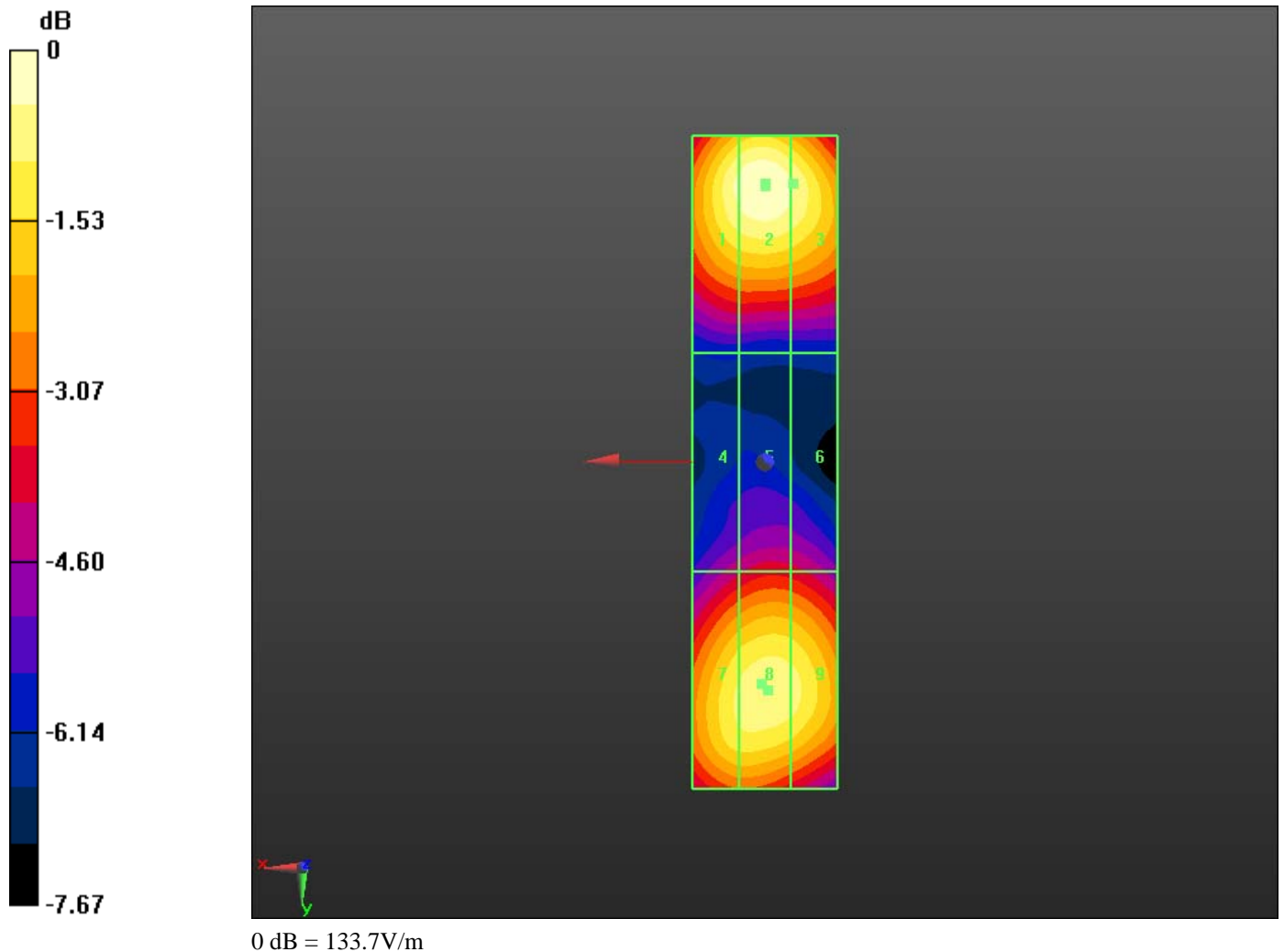
Peak E-field in V/m


Grid 1 12.459 M4	Grid 2 14.120 M4	Grid 3 14.129 M4
Grid 4 8.084 M4	Grid 5 8.555 M4	Grid 6 8.489 M4
Grid 7 13.250 M4	Grid 8 13.548 M4	Grid 9 12.104 M4

Cursor:

Total = 14.129 V/m
E Category: M4
Location: -4, -38.5, 4.7 mm

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Date/Time: 3/22/2011 3:54:49 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_PMF_CDMA_1880 MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: **32E4DBBB**

Communication System: WCDMA FDD II; Communication System Band:

Exported from older format (data unavailable - please correct).; Frequency: 1880 MHz; Communication System PAR: 0 dB

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Phantom section: RF Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid

Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm


Maximum value of peak Total field = 43.150 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 40.108 V/m; Power Drift = -0.01 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

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Peak E-field in V/m

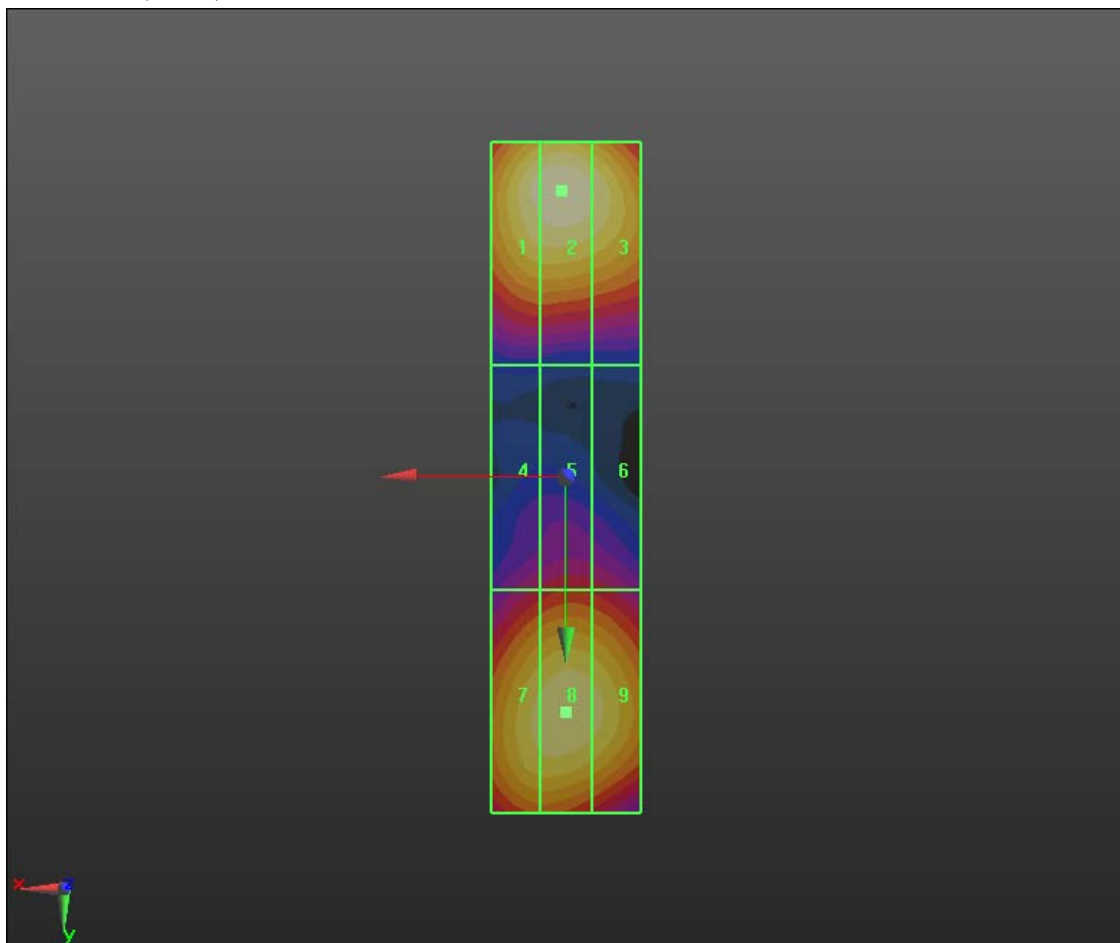
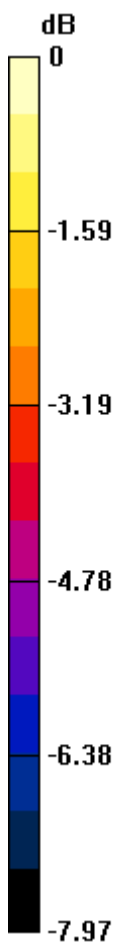
Grid 1 41.912 M4	Grid 2 43.150 M4	Grid 3 40.971 M4
Grid 4 26.905 M4	Grid 5 28.223 M4	Grid 6 27.711 M4
Grid 7 39.111 M4	Grid 8 40.205 M4	Grid 9 39.292 M4

Cursor:


Total = 43.150 V/m

E Category: M4

Location: 0.5, -38.5, 4.7 mm



0 dB = 43.150V/m

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Date/Time: 6/21/2011 7:48:33 PM, Date/Time: 6/21/2011 8:22:00 PM,
 Date/Time: 6/21/2011 8:16:49 PM, Date/Time: 6/21/2011 8:33:50 PM,
 Date/Time: 6/21/2011 8:40:52 PM, Date/Time: 6/21/2011 9:18:56 PM,
 Date/Time: 6/21/2011 9:00:35 PM, Date/Time: 6/21/2011 9:07:05 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_validation_PMF_835 MHz

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 32E4DBBB

Communication System: CW, Communication System: CDMA 800,
 Communication System: CDMA 850; Communication System Band: D835 (835.0
 MHz), Communication System Band: CDMA 2000 BC 10 , Communication
 System Band: CDMA 2000 Cellular; Frequency: 835 MHz, Frequency: 820.5
 MHz, Frequency: 836.52 MHz; Communication System PAR: 0, Communication
 System PAR: 9.19 dB


Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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Dipole H-Field measurement with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.479 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.509 A/m; Power Drift = -0.07 dB

Hearing Aid Near-Field Category: **M4 (AWF 0 dB)**

Peak H-field in A/m


Grid 1 0.393 M4	Grid 2 0.406 M4	Grid 3 0.381 M4
Grid 4 0.459 M4	Grid 5 0.479 M4	Grid 6 0.450 M4
Grid 7 0.419 M4	Grid 8 0.435 M4	Grid 9 0.399 M4

Cursor:

Total = 0.479 A/m

H Category: M4

Location: 0.5, 1.5, 4.7 mm

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Dipole H-Field measurement with H3DV6 probe/H Scan - CW_CDMA820_measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility

Test (41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.168 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.174 A/m; Power Drift = -0.13 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m


Grid 1 0.140 M4	Grid 2 0.145 M4	Grid 3 0.135 M4
Grid 4 0.160 M4	Grid 5 0.168 M4	Grid 6 0.156 M4
Grid 7 0.142 M4	Grid 8 0.148 M4	Grid 9 0.134 M4

Cursor:

Total = 0.168 A/m

H Category: M4

Location: 0.5, 4, 4.7 mm

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Dipole H-Field measurement with H3DV6 probe/H Scan - AM80%_CDMA820_measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid

Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.104 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.116 A/m; Power Drift = -0.34 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m


Grid 1 0.087 M4	Grid 2 0.090 M4	Grid 3 0.086 M4
Grid 4 0.100 M4	Grid 5 0.104 M4	Grid 6 0.099 M4
Grid 7 0.090 M4	Grid 8 0.093 M4	Grid 9 0.085 M4

Cursor:

Total = 0.104 A/m

H Category: M4

Location: 0.5, 3.5, 4.7 mm

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Dipole H-Field measurement with H3DV6 probe/H Scan - CDMA820_1_8th_measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid

Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.059 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.064 A/m; Power Drift = -0.03 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m


Grid 1 0.048 M4	Grid 2 0.050 M4	Grid 3 0.048 M4
Grid 4 0.056 M4	Grid 5 0.059 M4	Grid 6 0.056 M4
Grid 7 0.050 M4	Grid 8 0.051 M4	Grid 9 0.048 M4

Cursor:

Total = 0.059 A/m

H Category: M4

Location: 0, 0, 4.7 mm

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Dipole H-Field measurement with H3DV6 probe/H Scan - CDMA820_FR_measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility

Test (41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.170 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.178 A/m; Power Drift = 0.17 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m


Grid 1 0.140 M4	Grid 2 0.146 M4	Grid 3 0.140 M4
Grid 4 0.161 M4	Grid 5 0.170 M4	Grid 6 0.161 M4
Grid 7 0.143 M4	Grid 8 0.148 M4	Grid 9 0.138 M4

Cursor:

Total = 0.170 A/m

H Category: M4

Location: 0, 4, 4.7 mm

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Dipole H-Field measurement with H3DV6 probe/H Scan - CDMA835_1_8th_measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid

Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.064 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.067 A/m; Power Drift = -0.08 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m


Grid 1 0.052 M4	Grid 2 0.055 M4	Grid 3 0.052 M4
Grid 4 0.060 M4	Grid 5 0.064 M4	Grid 6 0.060 M4
Grid 7 0.055 M4	Grid 8 0.056 M4	Grid 9 0.052 M4

Cursor:

Total = 0.064 A/m

H Category: M4

Location: 0, 1, 4.7 mm

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Dipole H-Field measurement with H3DV6 probe/H Scan - CW_CDMA835_measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility

Test (41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.177 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.191 A/m; Power Drift = 0.0078 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m


Grid 1 0.145 M4	Grid 2 0.151 M4	Grid 3 0.144 M4
Grid 4 0.169 M4	Grid 5 0.177 M4	Grid 6 0.167 M4
Grid 7 0.154 M4	Grid 8 0.159 M4	Grid 9 0.146 M4

Cursor:

Total = 0.177 A/m

H Category: M4

Location: 0, 6, 4.7 mm

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Dipole H-Field measurement with H3DV6 probe/H Scan - AM80%_CDMA835_measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid

Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.114 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.120 A/m; Power Drift = 0.10 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m


Grid 1 0.093 M4	Grid 2 0.097 M4	Grid 3 0.092 M4
Grid 4 0.109 M4	Grid 5 0.114 M4	Grid 6 0.108 M4
Grid 7 0.100 M4	Grid 8 0.103 M4	Grid 9 0.095 M4

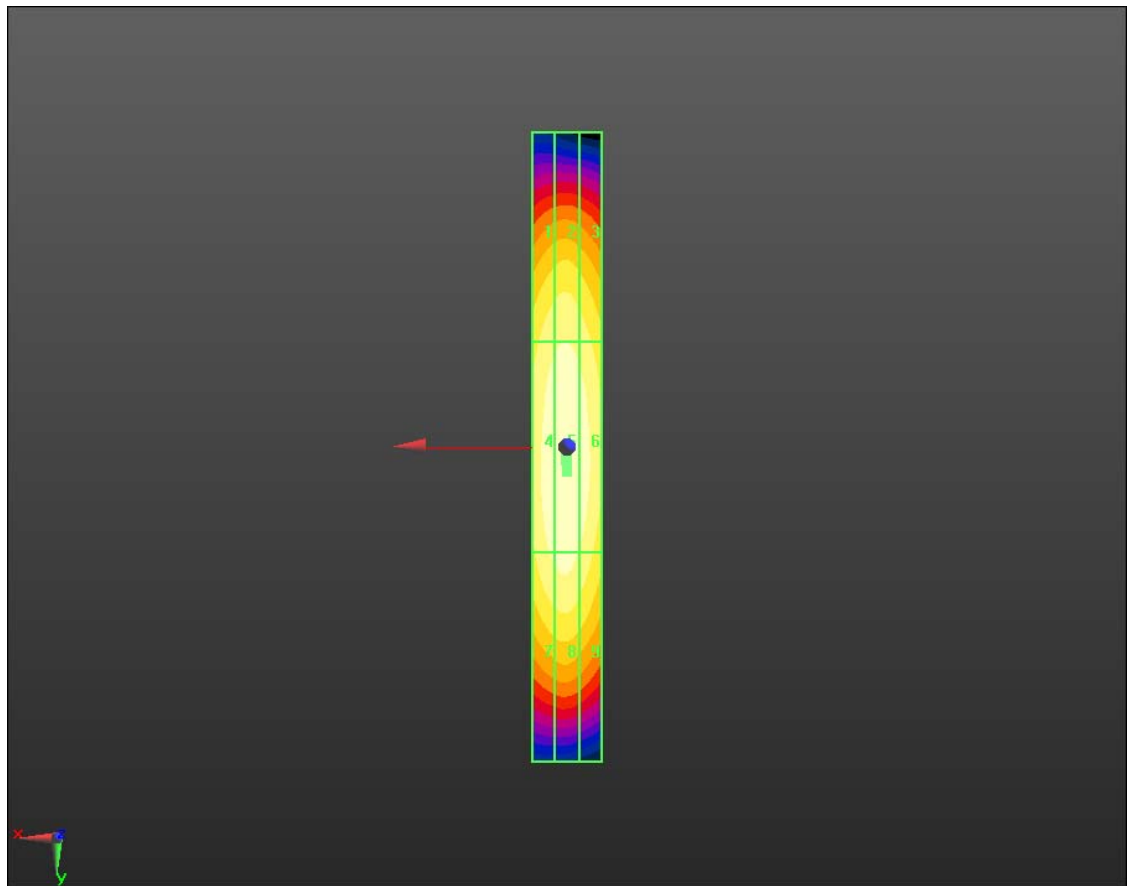
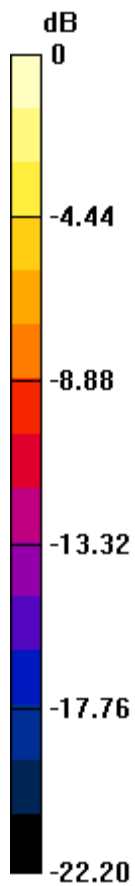
Cursor:

Total = 0.114 A/m


H Category: M4

Location: 0, 7, 4.7 mm

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0 dB = 0.480A/m

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Date/Time: 3/23/2011 3:11:51 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_PMF_CDMA_835 MHz

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: **32E4DBBB**

Communication System: CDMA 800; Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 835

MHz;Communication System PAR: 0 dB

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Phantom section: RF Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole H-Field measurement with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD835 Dipole =


10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.183 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

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Reference Value = 0.196 A/m; Power Drift = 0.01 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m


Grid 1 0.168 M4	Grid 2 0.176 M4	Grid 3 0.169 M4
Grid 4 0.173 M4	Grid 5 0.183 M4	Grid 6 0.175 M4
Grid 7 0.171 M4	Grid 8 0.180 M4	Grid 9 0.169 M4

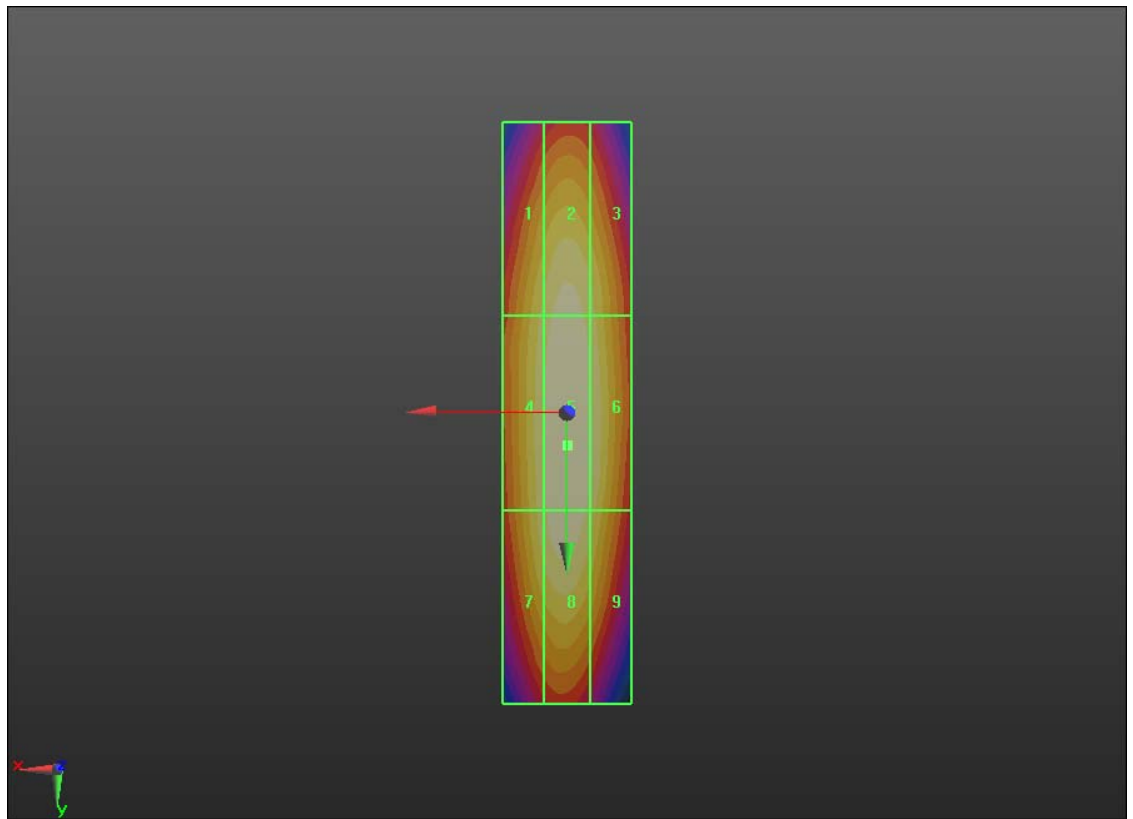
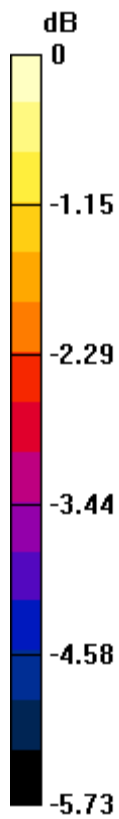
Cursor:

Total = 0.183 A/m


H Category: M4

Location: 0, 5, 4.7 mm

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0 dB = 0.180A/m

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Date/Time: 6/21/2011 7:14:02 PM, Date/Time: 6/21/2011 7:19:36 PM,
Date/Time: 6/21/2011 7:30:34 PM, Date/Time: 6/21/2011 7:37:59 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_validation_PMF_1880 MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 32E4DBBB

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Frequency: 1880 MHz; Communication System PAR: 0, Communication System PAR: 9.19 dB


Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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Dipole H-Field measurement with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD1880 Dipole =

10mm/Hearing Aid Compatibility Test (41x101x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.466 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.494 A/m; Power Drift = -0.06 dB

Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak H-field in A/m


Grid 1 0.429 M2	Grid 2 0.449 M2	Grid 3 0.431 M2
Grid 4 0.443 M2	Grid 5 0.466 M2	Grid 6 0.445 M2
Grid 7 0.434 M2	Grid 8 0.457 M2	Grid 9 0.433 M2

Cursor:

Total = 0.466 A/m

H Category: M2

Location: 0, 0.5, 4.7 mm

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Dipole H-Field measurement with H3DV6 probe/H Scan - CW_CDMA1900_measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid

Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.126 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.135 A/m; Power Drift = -0.02 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m


Grid 1 0.109 M4	Grid 2 0.113 M4	Grid 3 0.108 M4
Grid 4 0.121 M4	Grid 5 0.126 M4	Grid 6 0.120 M4
Grid 7 0.110 M4	Grid 8 0.116 M4	Grid 9 0.109 M4

Cursor:

Total = 0.126 A/m

H Category: M4

Location: 0, 2.5, 4.7 mm

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Dipole H-Field measurement with H3DV6 probe/H Scan - AM80%_CDMA1900_measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid

Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.081 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.086 A/m; Power Drift = -0.0042 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m


Grid 1 0.070 M4	Grid 2 0.073 M4	Grid 3 0.070 M4
Grid 4 0.077 M4	Grid 5 0.081 M4	Grid 6 0.077 M4
Grid 7 0.070 M4	Grid 8 0.074 M4	Grid 9 0.069 M4

Cursor:

Total = 0.081 A/m

H Category: M4

Location: 0, 3, 4.7 mm

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Dipole H-Field measurement with H3DV6 probe/H Scan - CDMA1900_1_8th_measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid

Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.051 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.050 A/m; Power Drift = -0.17 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m


Grid 1 0.040 M4	Grid 2 0.041 M4	Grid 3 0.038 M4
Grid 4 0.047 M4	Grid 5 0.051 M4	Grid 6 0.048 M4
Grid 7 0.040 M4	Grid 8 0.042 M4	Grid 9 0.040 M4

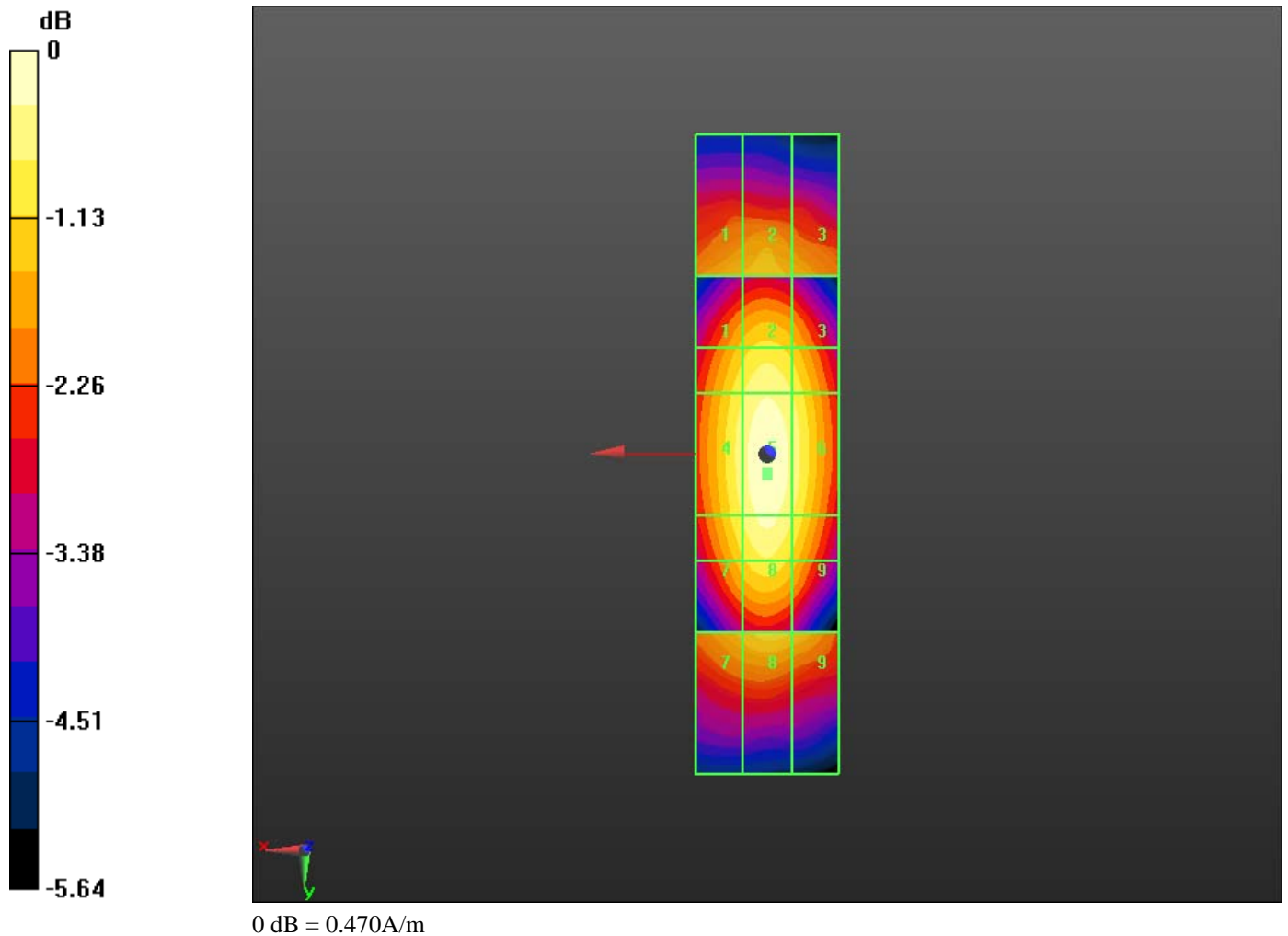
Cursor:


Total = 0.051 A/m

H Category: M4

Location: 0, 0, 4.7 mm

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Date/Time: 3/23/2011 1:10:44 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_PMF_CDMA_1880 MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: **32E4DBBB**

Communication System: CDMA 1900; Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 1880

MHz;Communication System PAR: 0 dB

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Phantom section: RF Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole H-Field measurement with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD1880 Dipole =


10mm/Hearing Aid Compatibility Test (41x101x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.154 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

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Reference Value = 0.165 A/m; Power Drift = -0.02 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m


Grid 1 0.143 M4	Grid 2 0.150 M4	Grid 3 0.145 M4
Grid 4 0.147 M4	Grid 5 0.154 M4	Grid 6 0.149 M4
Grid 7 0.144 M4	Grid 8 0.152 M4	Grid 9 0.145 M4

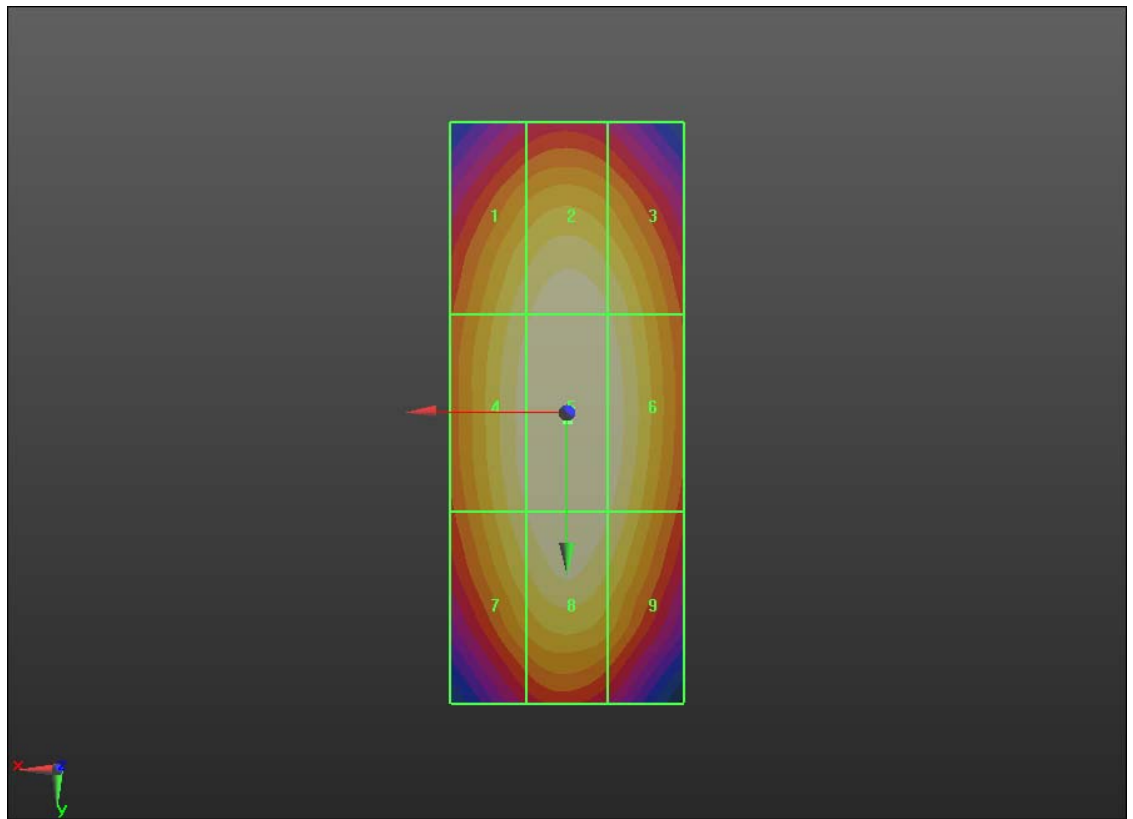
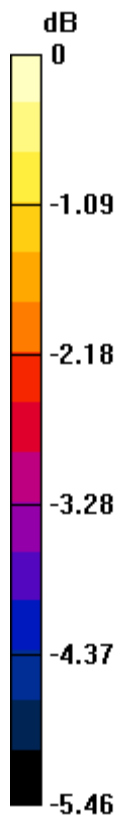
Cursor:

Total = 0.154 A/m


H Category: M4

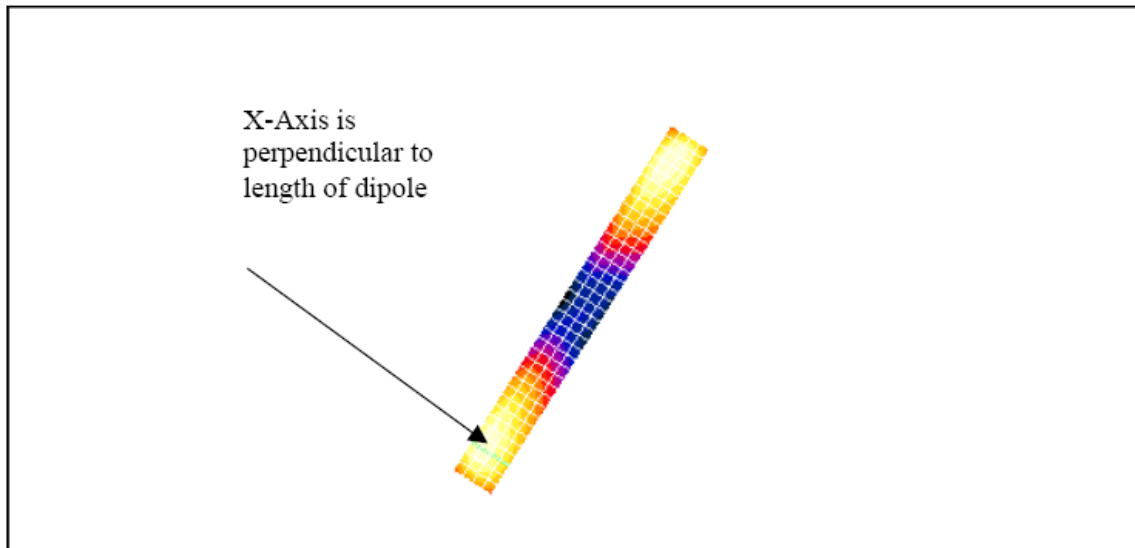
Location: 0, 0.5, 4.7 mm

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0 dB = 0.150A/m


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The green line in this figure shows the axis along which the points lie.

Comparison of 5mm and 2mm step sizes

An additional set of measurements was taken: dipole validations were performed using 5mm and 2mm step sizes. The delta between the two readings is insignificant for both field types (< 0.4% for E and 0% for H), demonstrating that 5mm is sufficient. The plots follow.

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Date/Time: 14/07/2005 11:35:24 AM

Lab: RIM Testing Services (RTS)

Dipole Validation 1880 MHz_E-Field 07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: H Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 10/12/2004
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

E Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (5x19x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of Total (measured) = 134.8 V/m

E Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (41x181x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of Total field (slot averaged) = 131.0 V/m


Hearing Aid Near-Field Category: M2 (AWF 0 dB)

E in V/m (Time averaged) E in V/m (Slot averaged)

Grid 1	Grid 2	Grid 3	Grid 1	Grid 2	Grid 3
123.2	138.1	138.4	123.2	138.1	138.4
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
80.9	92.3	92.2	80.9	92.3	92.2
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
119.8	131.0	130.7	119.8	131.0	130.7

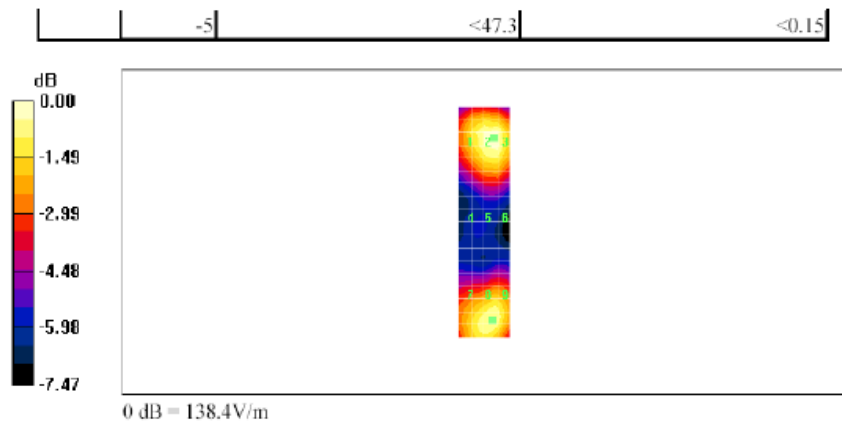
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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Date/Time: 14/07/2005 11:44:51 AM

Lab: RIM Testing Services (RTS)

Dipole Validation 1880 MHz_2mm step_E-Field 07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: H Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 10/12/2004
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

E Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (11x46x1):

Measurement grid: dx=2mm, dy=2mm

Maximum value of Total (measured) = 138.0 V/m

E Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (101x451x1):

Measurement grid: dx=2mm, dy=2mm

Maximum value of Total field (slot averaged) = 131.2 V/m


Hearing Aid Near-Field Category: M2 (AWF 0 dB)

E in V/m (Time averaged) E in V/m (Slot averaged)

Grid 1	Grid 2	Grid 3	Grid 1	Grid 2	Grid 3
123.1	138.6	138.6	123.1	138.6	138.6
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
81.4	92.1	91.6	81.4	92.1	91.6
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
121.3	131.2	131.0	121.3	131.2	131.0

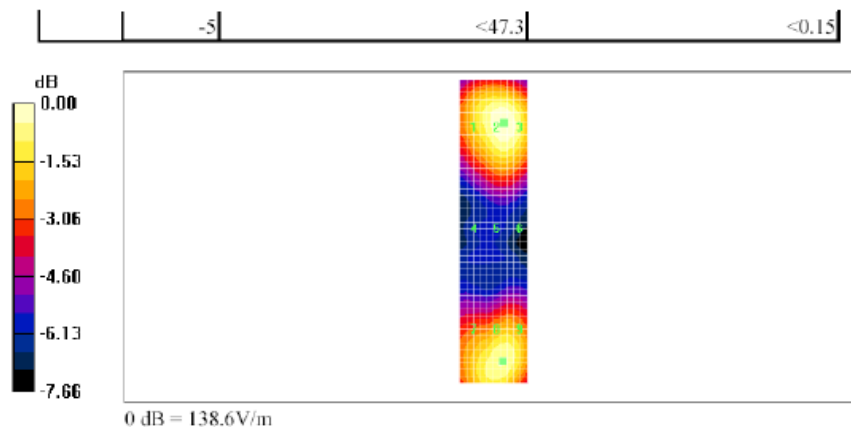
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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Lab: RIM Testing Services (RTS)

HAC_H_Dipole_CW 1880_5 mm step_07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: H Dipole Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 10/12/2004
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

H Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (5x19x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of Total (measured) = 0.406 A/m

H Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (41x181x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of Total field (slot averaged) = 0.406 A/m


Hearing Aid Near-Field Category: M2 (AWF 0 dB)

H in A/m (Time averaged) H in A/m (Slot averaged)

Grid 1	Grid 2	Grid 3	Grid 1	Grid 2	Grid 3
0.342	0.359	0.344	0.342	0.359	0.344
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
0.389	0.406	0.389	0.389	0.406	0.389
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
0.363	0.378	0.363	0.363	0.378	0.363

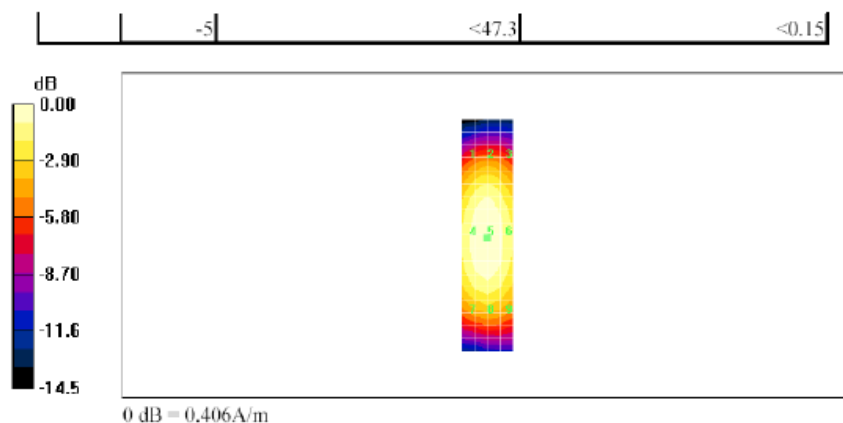
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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Lab: RIM Testing Services (RTS)

HAC_H_Dipole_CW 1880_2 mm step_07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: H Dipole Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 10/12/2004
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

H Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (11x46x1):

Measurement grid: dx=2mm, dy=2mm

Maximum value of Total (measured) = 0.406 A/m

H Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (101x451x1):

Measurement grid: dx=2mm, dy=2mm

Maximum value of Total field (slot averaged) = 0.406 A/m


Hearing Aid Near-Field Category: M2 (AWF 0 dB)

H in A/m (Time averaged) H in A/m (Slot averaged)

Grid 1	Grid 2	Grid 3	Grid 1	Grid 2	Grid 3
0.347	0.361	0.348	0.347	0.361	0.348
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
0.394	0.406	0.391	0.394	0.406	0.391
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
0.367	0.380	0.365	0.367	0.380	0.365

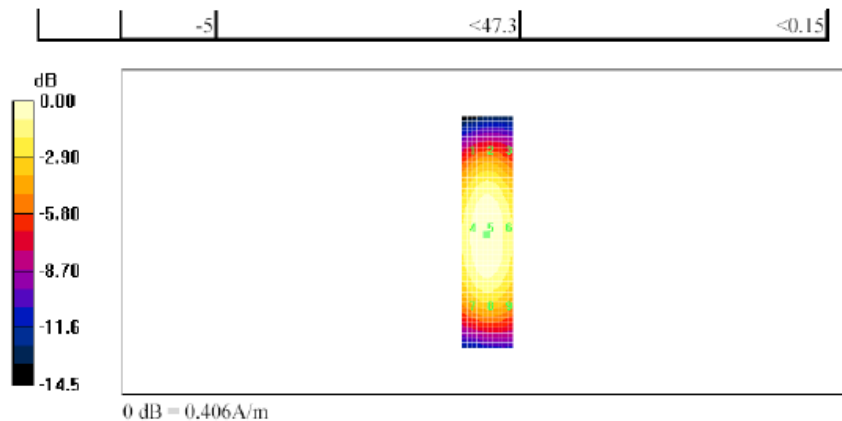
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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A.3 RF emissions plots

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Date/Time: 5/19/2011 10:44:51 PM, Date/Time: 5/19/2011 10:48:10 PM,
Date/Time: 5/19/2011 10:52:14 PM, Date/Time: 5/19/2011 11:16:30 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_CDMA800

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E4DBBB

Communication System: CDMA 800; Communication System Band: CDMA 2000
BC 10 ; Frequency: 817.9 MHz, Frequency: 820.5 MHz, Frequency: 823.1
MHz;Communication System PAR: 0 dB

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:


- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15
mm from Probe Center to the Device/Hearing Aid Compatibility Test
(101x101x1): Measurement grid: dx=5mm, dy=5mm**

Maximum value of peak Total field = 69.695 V/m

Probe Modulation Factor = 0.960

Device Reference Point: 0, 0, -6.3 mm

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Reference Value = 88.782 V/m; Power Drift = 0.03 dB

Hearing Aid Near-Field Category: **M4 (AWF 0 dB)**

Peak E-field in V/m

Grid 1 59.367 M4	Grid 2 67.296 M4	Grid 3 67.209 M4
Grid 4 61.544 M4	Grid 5 69.686 M4	Grid 6 69.604 M4
Grid 7 62.587 M4	Grid 8 69.695 M4	Grid 9 69.648 M4

Cursor:

Total = 69.695 V/m

E Category: M4

Location: -7.5, 9, 8.7 mm

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device 2/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 72.237 V/m

Probe Modulation Factor = 0.960


Device Reference Point: 0, 0, -6.3 mm

Reference Value = 91.762 V/m; Power Drift = -0.08 dB

Hearing Aid Near-Field Category: **M4 (AWF 0 dB)**

Peak E-field in V/m

Grid 1 61.120 M4	Grid 2 68.288 M4	Grid 3 68.203 M4
Grid 4 63.914 M4	Grid 5 71.499 M4	Grid 6 71.152 M4
Grid 7 65.842 M4	Grid 8 72.237 M4	Grid 9 71.518 M4

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Cursor:

Total = 72.237 V/m
E Category: M4
Location: -4.5, 14.5, 8.7 mm

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device 2 2/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 68.427 V/m
Probe Modulation Factor = 0.960
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 87.886 V/m; Power Drift = 0.0027 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1 59.025 M4	Grid 2 64.686 M4	Grid 3 64.440 M4
Grid 4 61.757 M4	Grid 5 68.148 M4	Grid 6 67.915 M4
Grid 7 63.211 M4	Grid 8 68.427 M4	Grid 9 68.071 M4


Cursor:

Total = 68.427 V/m
E Category: M4
Location: -4.5, 18.5, 8.7 mm

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device_1/8/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 62.084 V/m
Probe Modulation Factor = 2.380
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 31.151 V/m; Power Drift = 0.04 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

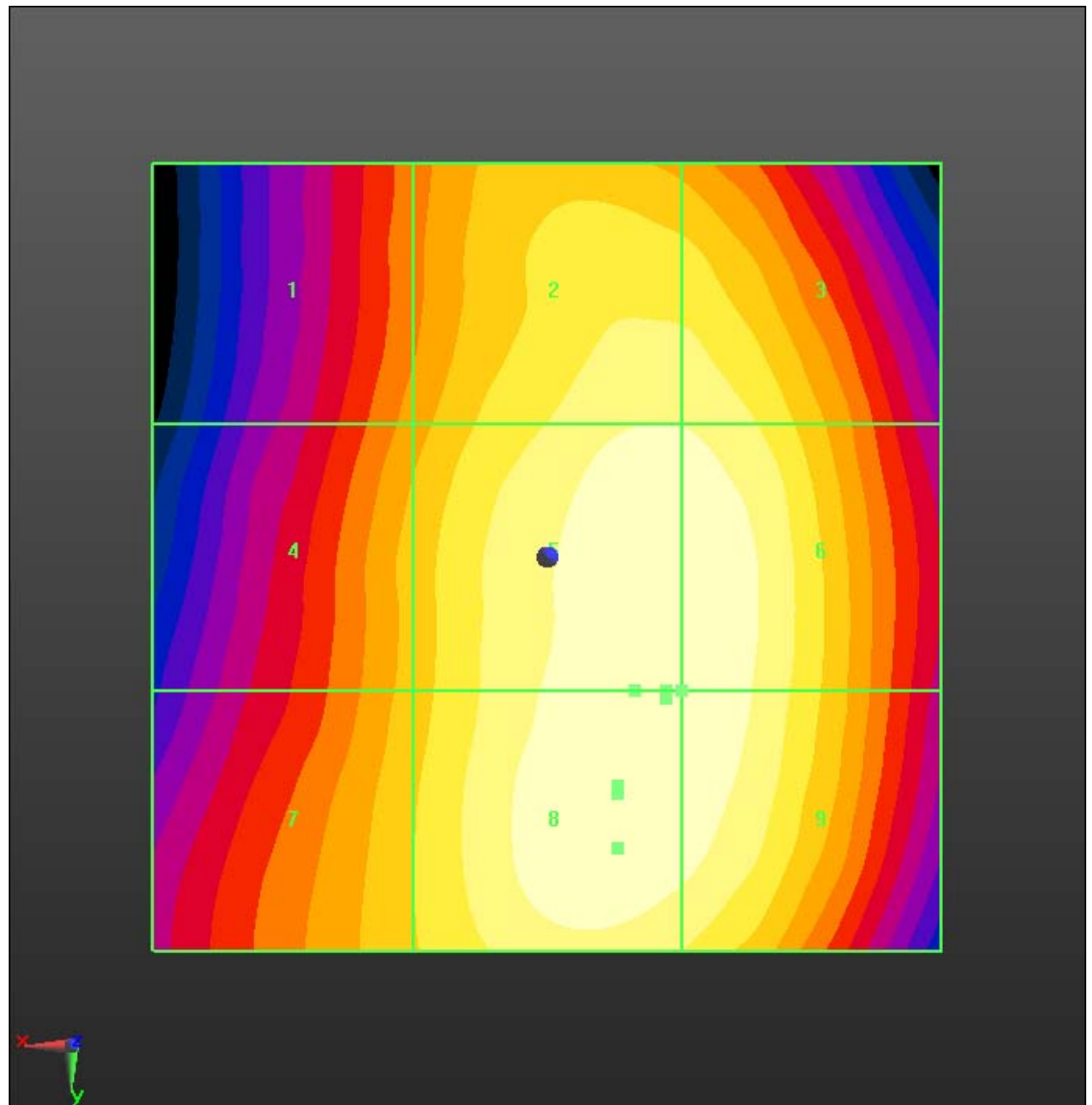
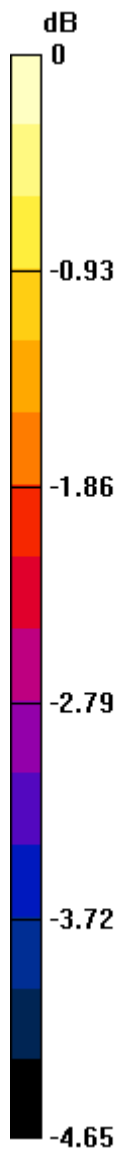
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Peak E-field in V/m


Grid 1 52.780 M4	Grid 2 59.313 M4	Grid 3 59.101 M4
Grid 4 55.344 M4	Grid 5 61.550 M4	Grid 6 61.550 M4
Grid 7 56.639 M4	Grid 8 62.084 M4	Grid 9 61.650 M4

Cursor:

Total = 62.084 V/m
E Category: M4
Location: -4.5, 15, 8.7 mm



0 dB = 69.690V/m

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Date/Time: 5/19/2011 11:20:37 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_CDMA800_telecoil

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E4DBBB

Communication System: CDMA 800; Communication System Band: CDMA 2000

BC 10 ; Frequency: 820.5 MHz;Communication System PAR: 0 dB

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Phantom section: RF Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device_telecoil/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 72.109 V/m


Probe Modulation Factor = 0.960

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 91.130 V/m; Power Drift = 0.06 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

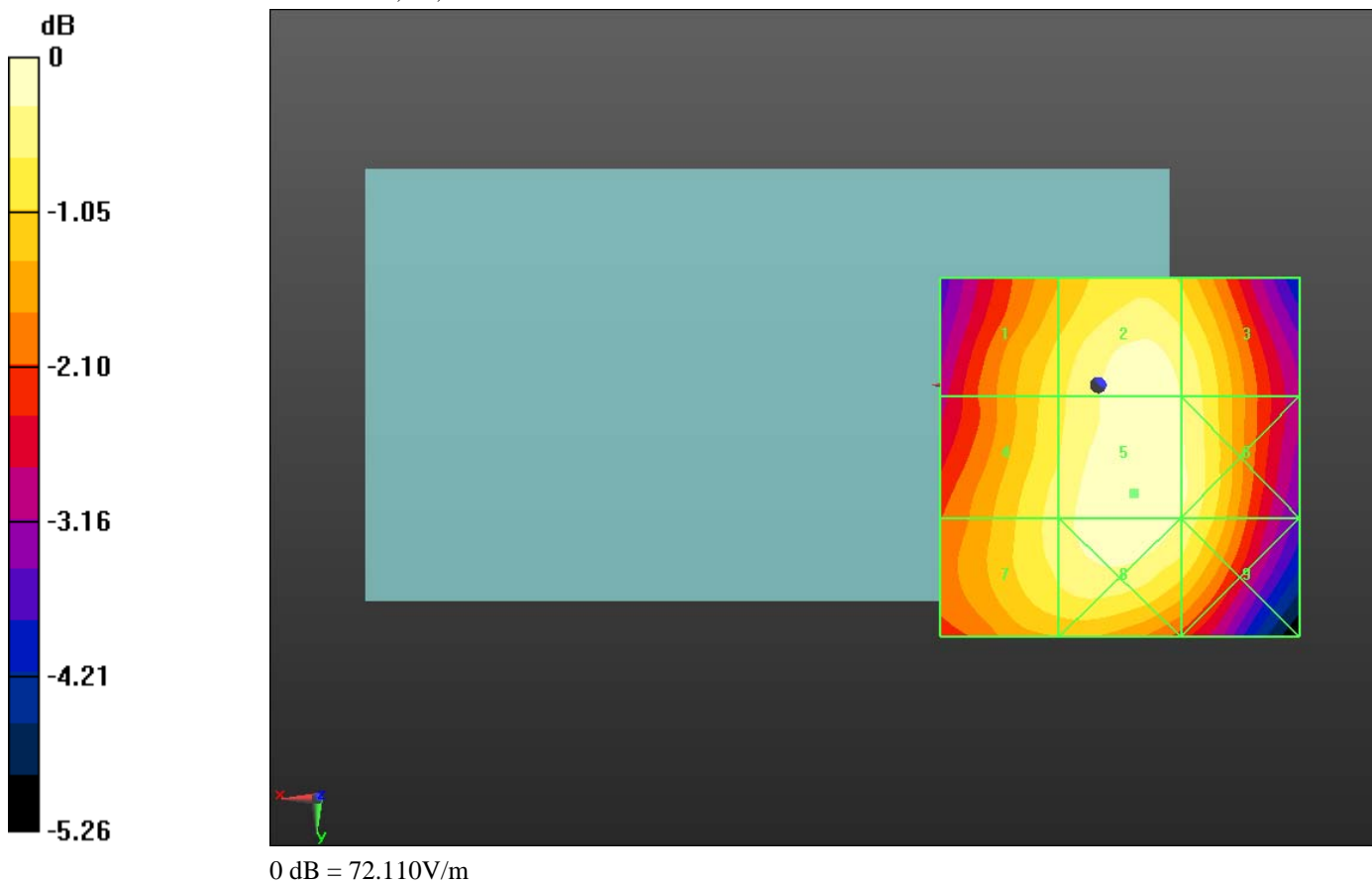
Peak E-field in V/m


	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDS41CW		Page 75 (106)
Author Data Andrew Becker	Dates of Test Mar. 22-23, June 19-22, 2011	Report No RTS-2604-1107-11	FCC ID L6ARDS40CW

Grid 1 65.858 M4	Grid 2 70.933 M4	Grid 3 69.246 M4
Grid 4 67.959 M4	Grid 5 72.109 M4	Grid 6 70.024 M4
Grid 7 67.979 M4	Grid 8 71.898 M4	Grid 9 68.979 M4

Cursor:

Total = 72.109 V/m
E Category: M4
Location: -5, 15, 8.7 mm



	Document			Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDS41CW			76 (106)
Author Data Andrew Becker	Dates of Test Mar. 22-23, June 19-22, 2011	Report No RTS-2604-1107-11	FCC ID L6ARDS40CW	

Date/Time: 5/19/2011 11:28:08 PM, Date/Time: 5/19/2011 11:38:13 PM,
Date/Time: 5/19/2011 11:42:45 PM, Date/Time: 5/19/2011 11:46:35 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_CDMA850

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E4DBBB

Communication System: CDMA 850; Communication System Band: CDMA 2000

Cellular; Frequency: 824.7 MHz, Frequency: 836.52 MHz, Frequency: 848.52

MHz;Communication System PAR: 0 dB

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Phantom section: RF Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)


Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 64.182 V/m

Probe Modulation Factor = 0.940

Device Reference Point: 0, 0, -6.3 mm

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Reference Value = 84.454 V/m; Power Drift = -0.05 dB

Hearing Aid Near-Field Category: **M4 (AWF 0 dB)**

Peak E-field in V/m

Grid 1 55.442 M4	Grid 2 61.401 M4	Grid 3 60.961 M4
Grid 4 57.624 M4	Grid 5 63.997 M4	Grid 6 63.307 M4
Grid 7 58.766 M4	Grid 8 64.182 M4	Grid 9 63.349 M4

Cursor:

Total = 64.182 V/m

E Category: M4

Location: -4.5, 13.5, 8.7 mm

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device 2/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 70.469 V/m

Probe Modulation Factor = 0.940


Device Reference Point: 0, 0, -6.3 mm

Reference Value = 87.913 V/m; Power Drift = 0.13 dB

Hearing Aid Near-Field Category: **M4 (AWF 0 dB)**

Peak E-field in V/m

Grid 1 55.938 M4	Grid 2 66.866 M4	Grid 3 66.866 M4
Grid 4 59.553 M4	Grid 5 70.469 M4	Grid 6 70.469 M4
Grid 7 61.805 M4	Grid 8 70.854 M4	Grid 9 70.849 M4

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Cursor:

Total = 70.854 V/m
E Category: M4
Location: -8, 15, 8.7 mm

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device 2 2/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 70.528 V/m
Probe Modulation Factor = 0.940
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 88.235 V/m; Power Drift = 0.07 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1 56.878 M4	Grid 2 67.418 M4	Grid 3 67.316 M4
Grid 4 59.661 M4	Grid 5 70.528 M4	Grid 6 70.528 M4
Grid 7 61.323 M4	Grid 8 70.928 M4	Grid 9 70.851 M4


Cursor:

Total = 70.928 V/m
E Category: M4
Location: -7, 14, 8.7 mm

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device_1/8/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 68.744 V/m
Probe Modulation Factor = 2.600
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 31.958 V/m; Power Drift = -0.20 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

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Peak E-field in V/m

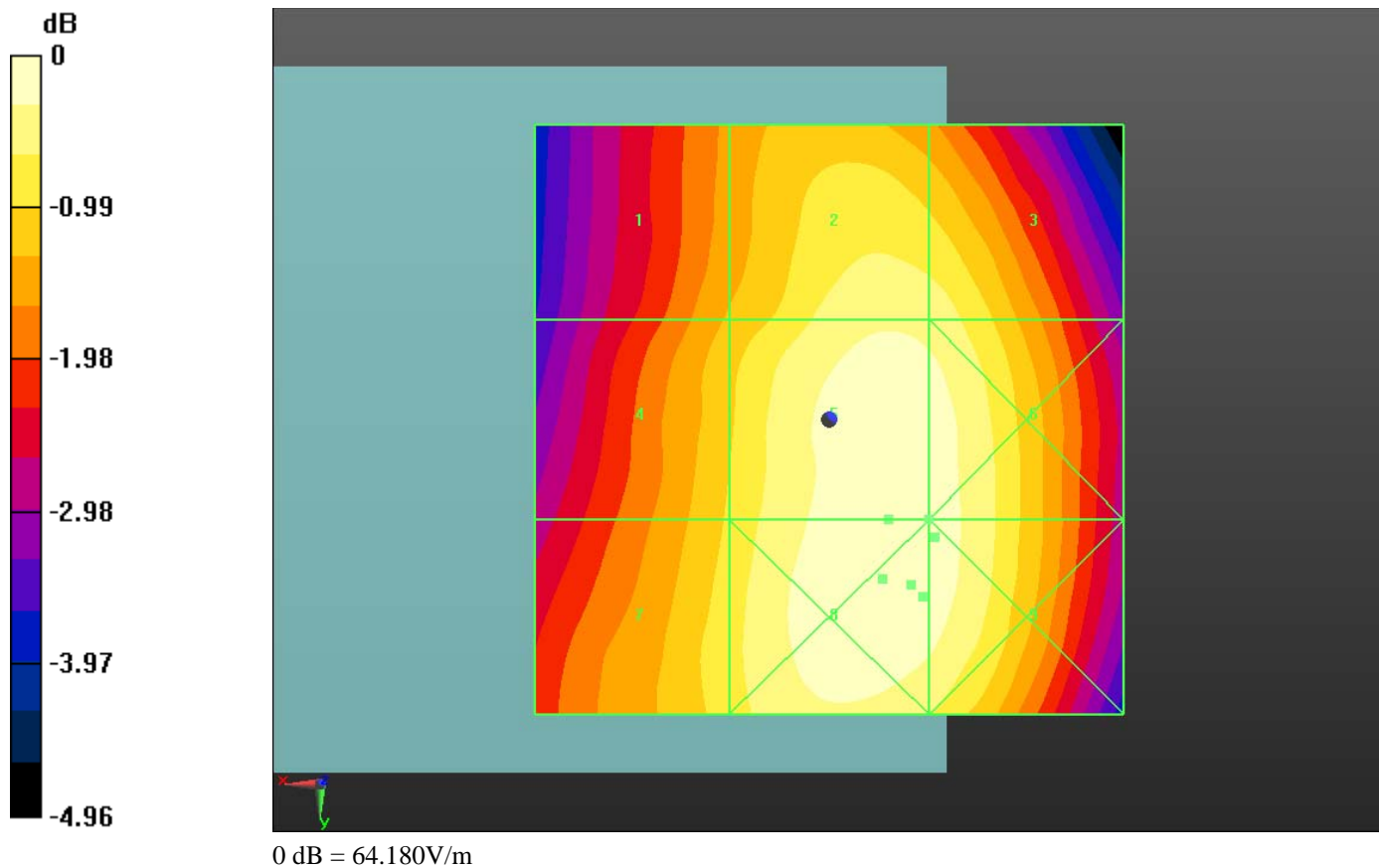
Grid 1 54.687 M4	Grid 2 64.654 M4	Grid 3 64.627 M4
Grid 4 57.183 M4	Grid 5 68.744 M4	Grid 6 68.824 M4
Grid 7 59.099 M4	Grid 8 68.888 M4	Grid 9 68.979 M4


Cursor:

Total = 68.979 V/m

E Category: M4

Location: -9, 10, 8.7 mm



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Date/Time: 5/19/2011 11:54:47 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_CDMA850_telecoil

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E4DBBB

Communication System: CDMA 850; Communication System Band: CDMA 2000

Cellular; Frequency: 848.52 MHz; Communication System PAR: 0 dB

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Phantom section: RF Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device_telecoil/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 72.339 V/m


Probe Modulation Factor = 0.940

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 92.569 V/m; Power Drift = -0.09 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

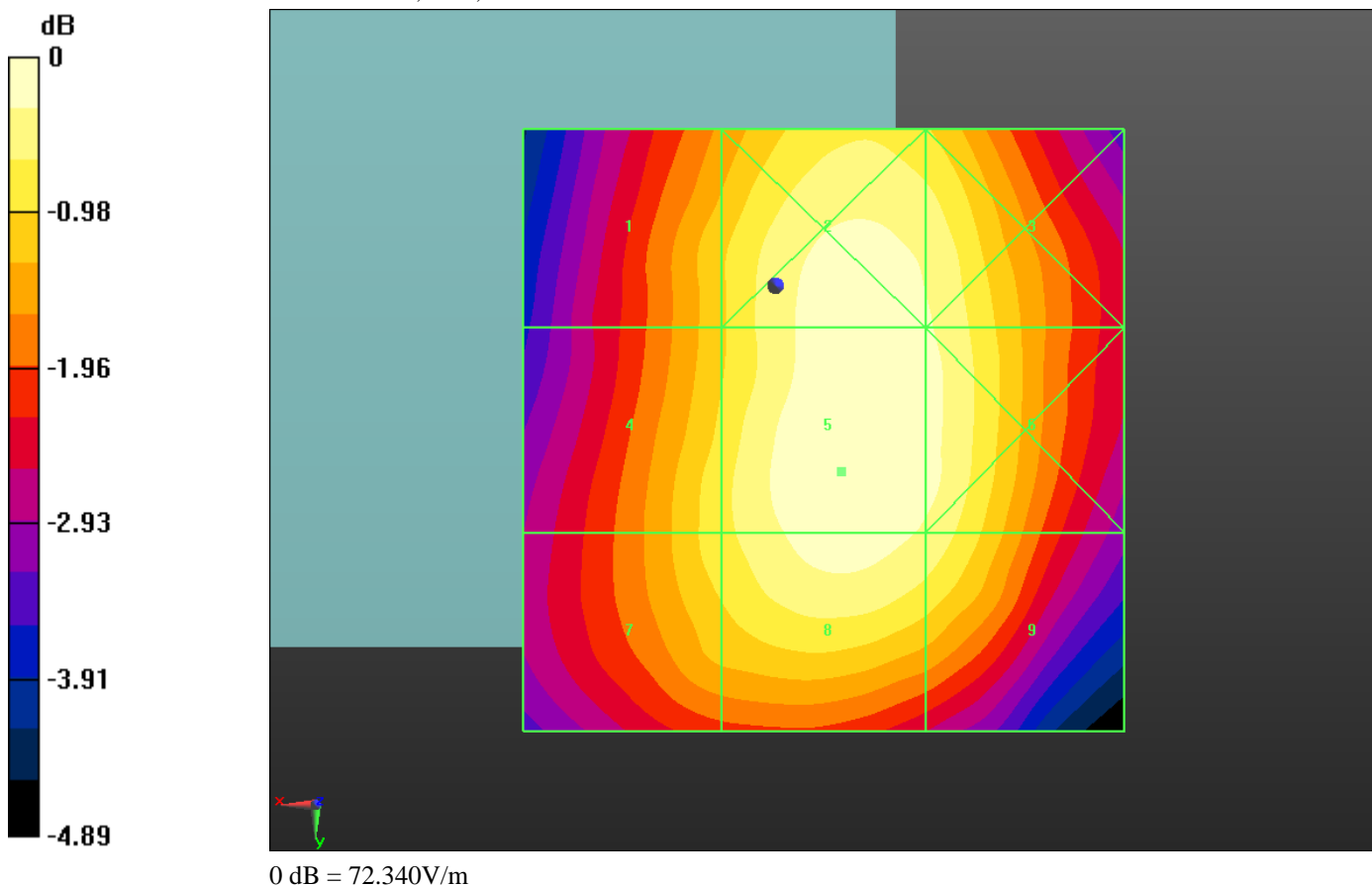
Peak E-field in V/m


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Author Data Andrew Becker	Dates of Test Mar. 22-23, June 19-22, 2011	Report No RTS-2604-1107-11	FCC ID L6ARDS40CW

Grid 1 64.373 M4	Grid 2 71.373 M4	Grid 3 70.073 M4
Grid 4 66.357 M4	Grid 5 72.339 M4	Grid 6 70.721 M4
Grid 7 66.280 M4	Grid 8 71.288 M4	Grid 9 69.255 M4

Cursor:

Total = 72.339 V/m
E Category: M4
Location: -5.5, 15.5, 8.7 mm



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Date/Time: 5/20/2011 12:04:47 AM, Date/Time: 5/20/2011 12:13:12 AM,
Date/Time: 5/20/2011 12:17:29 AM, Date/Time: 5/20/2011 12:22:54 AM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_CDMA1900

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E4DBBB

Communication System: CDMA 1900; Communication System Band: CDMA
2000 PCS; Frequency: 1851.25 MHz, Frequency: 1880 MHz, Frequency: 1908.5
MHz;Communication System PAR: 0 dB

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Phantom section: RF Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:


- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15
mm from Probe Center to the Device/Hearing Aid Compatibility Test
(101x101x1): Measurement grid: dx=5mm, dy=5mm**

Maximum value of peak Total field = 25.641 V/m

Probe Modulation Factor = 0.840

Device Reference Point: 0, 0, -6.3 mm

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Reference Value = 9.350 V/m; Power Drift = -0.29 dB

Hearing Aid Near-Field Category: **M4 (AWF 0 dB)**

Peak E-field in V/m

Grid 1 31.045 M4	Grid 2 32.529 M4	Grid 3 29.760 M4
Grid 4 12.400 M4	Grid 5 14.622 M4	Grid 6 14.745 M4
Grid 7 22.606 M4	Grid 8 25.641 M4	Grid 9 24.781 M4

Cursor:

Total = 32.528 V/m

E Category: M4

Location: 1.5, -25, 8.7 mm

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device 2/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 26.080 V/m

Probe Modulation Factor = 0.840


Device Reference Point: 0, 0, -6.3 mm

Reference Value = 11.511 V/m; Power Drift = 0.09 dB

Hearing Aid Near-Field Category: **M4 (AWF 0 dB)**

Peak E-field in V/m

Grid 1 28.505 M4	Grid 2 30.344 M4	Grid 3 29.415 M4
Grid 4 12.969 M4	Grid 5 16.006 M4	Grid 6 16.084 M4
Grid 7 23.569 M4	Grid 8 26.080 M4	Grid 9 25.249 M4

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Cursor:

Total = 30.344 V/m
E Category: M4
Location: -0.5, -25, 8.7 mm

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device 2 2/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 23.303 V/m
Probe Modulation Factor = 0.840
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 8.584 V/m; Power Drift = 0.11 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1 29.001 M4	Grid 2 31.611 M4	Grid 3 30.284 M4
Grid 4 10.160 M4	Grid 5 13.773 M4	Grid 6 14.386 M4
Grid 7 20.385 M4	Grid 8 23.303 M4	Grid 9 22.696 M4


Cursor:

Total = 31.611 V/m
E Category: M4
Location: -1, -25, 8.7 mm

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device_1/8/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 28.271 V/m
Probe Modulation Factor = 2.570
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 3.489 V/m; Power Drift = -1.01 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

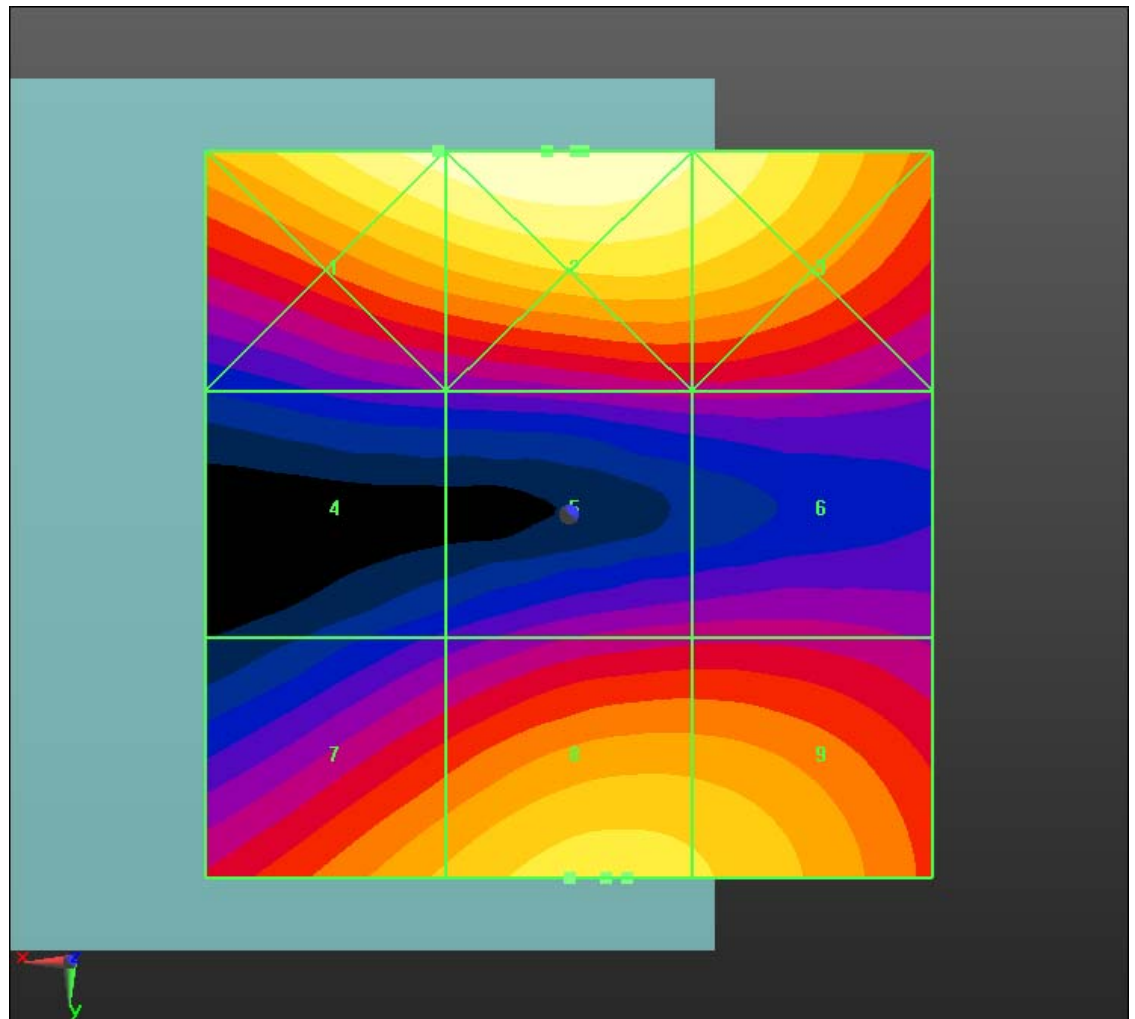
	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDS41CW		Page 85 (106)
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Peak E-field in V/m


Grid 1 33.539 M4	Grid 2 33.453 M4	Grid 3 29.051 M4
Grid 4 12.454 M4	Grid 5 14.652 M4	Grid 6 14.932 M4
Grid 7 22.829 M4	Grid 8 28.271 M4	Grid 9 23.759 M4

Cursor:

Total = 33.540 V/m
E Category: M4
Location: 9, -25, 8.7 mm



0 dB = 32.530V/m

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Date/Time: 5/20/2011 12:27:29 AM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_CDMA1900_telecoil

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E4DBBB

Communication System: CDMA 1900; Communication System Band: CDMA

2000 PCS; Frequency: 1851.25 MHz; Communication System PAR: 0 dB

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Phantom section: RF Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device_telecoil/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 24.474 V/m


Probe Modulation Factor = 0.840

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 8.472 V/m; Power Drift = 0.09 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

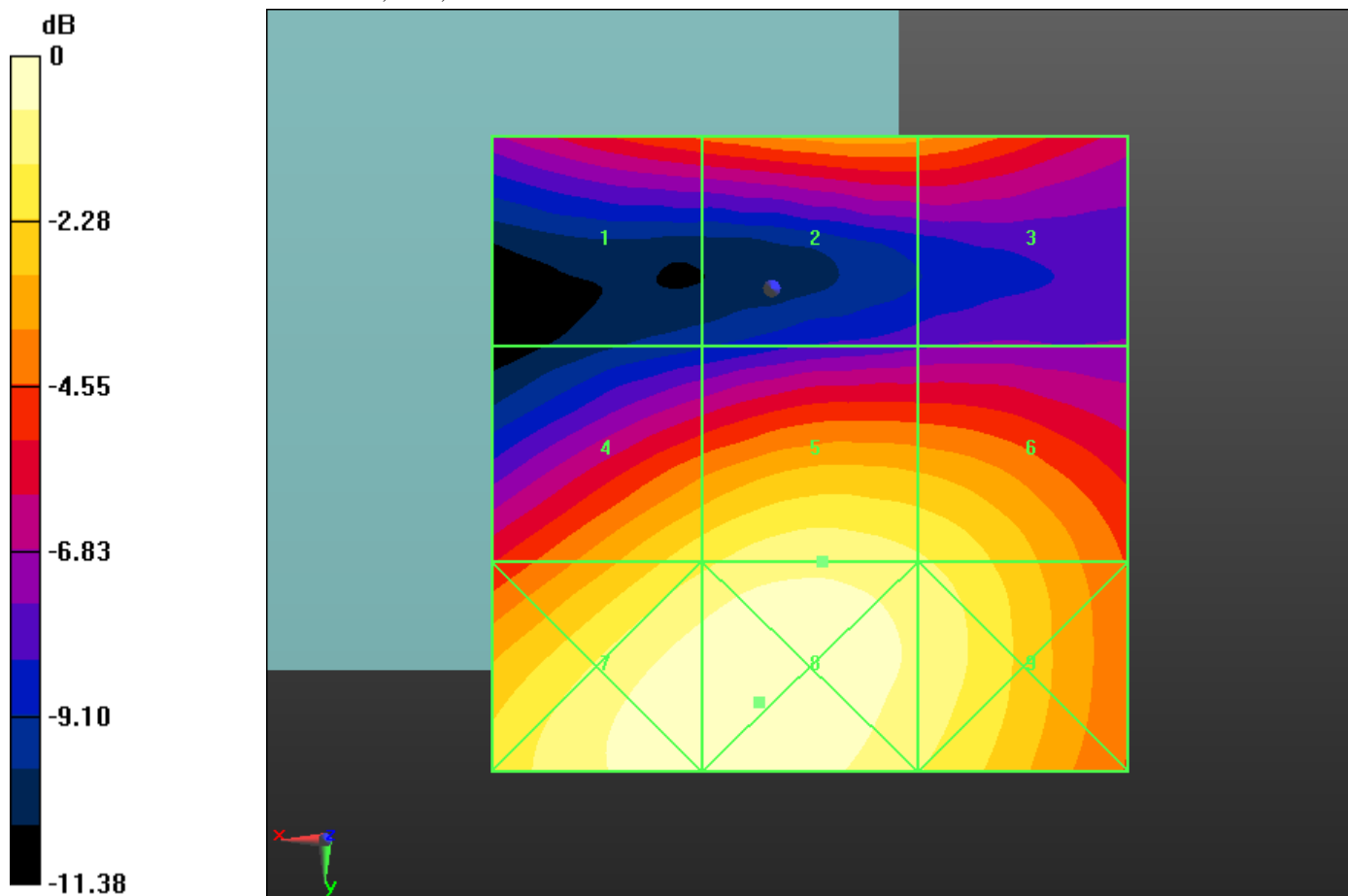
Peak E-field in V/m

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Author Data Andrew Becker	Dates of Test Mar. 22-23, June 19-22, 2011	Report No RTS-2604-1107-11	FCC ID L6ARDS40CW


Grid 1 16.694 M4	Grid 2 18.764 M4	Grid 3 18.314 M4
Grid 4 22.486 M4	Grid 5 24.474 M4	Grid 6 23.331 M4
Grid 7 27.028 M4	Grid 8 27.385 M4	Grid 9 24.788 M4

Cursor:

Total = 27.385 V/m
E Category: M4
Location: 1, 32.5, 8.7 mm



0 dB = 27.390V/m

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Date/Time: 5/20/2011 1:31:14 AM, Date/Time: 5/20/2011 1:34:48 AM,
Date/Time: 5/20/2011 1:38:34 AM, Date/Time: 5/20/2011 1:42:59 AM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_CDMA800

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E4DBBB

Communication System: CDMA 800; Communication System Band: CDMA 2000
BC 10 ; Frequency: 817.9 MHz, Frequency: 820.5 MHz, Frequency: 823.1
MHz;Communication System PAR: 0 dB

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 -
2007: 15 mm from Probe Center to the Device/Hearing Aid**

Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm


Maximum value of peak Total field = 0.160 A/m

Probe Modulation Factor = 0.990

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.095 A/m; Power Drift = 0.11 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

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Peak H-field in A/m

Grid 1 0.160 M4	Grid 2 0.116 M4	Grid 3 0.075 M4
Grid 4 0.148 M4	Grid 5 0.110 M4	Grid 6 0.073 M4
Grid 7 0.157 M4	Grid 8 0.118 M4	Grid 9 0.078 M4

Cursor:

Total = 0.160 A/m
H Category: M4
Location: 25, -25, 8.7 mm

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device

2/Hearing Aid Compatibility Test (101x101x1): Measurement grid:
dx=5mm, dy=5mm

Maximum value of peak Total field = 0.168 A/m

Probe Modulation Factor = 0.990


Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.103 A/m; Power Drift = -0.12 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.168 M4	Grid 2 0.120 M4	Grid 3 0.079 M4
Grid 4 0.154 M4	Grid 5 0.115 M4	Grid 6 0.077 M4
Grid 7 0.164 M4	Grid 8 0.122 M4	Grid 9 0.081 M4

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Cursor:

Total = 0.168 A/m
H Category: M4
Location: 25, -25, 8.7 mm

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2 2/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm
Maximum value of peak Total field = 0.162 A/m
Probe Modulation Factor = 0.990
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.097 A/m; Power Drift = -0.09 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.162 M4	Grid 2 0.114 M4	Grid 3 0.075 M4
Grid 4 0.148 M4	Grid 5 0.106 M4	Grid 6 0.070 M4
Grid 7 0.153 M4	Grid 8 0.112 M4	Grid 9 0.070 M4

Cursor:


Total = 0.162 A/m
H Category: M4
Location: 25, -25, 8.7 mm

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 1/8/Hearing Aid Compatibility Test (101x101x1): Measurement

grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 0.169 A/m
Probe Modulation Factor = 2.850
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.036 A/m; Power Drift = 0.12 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

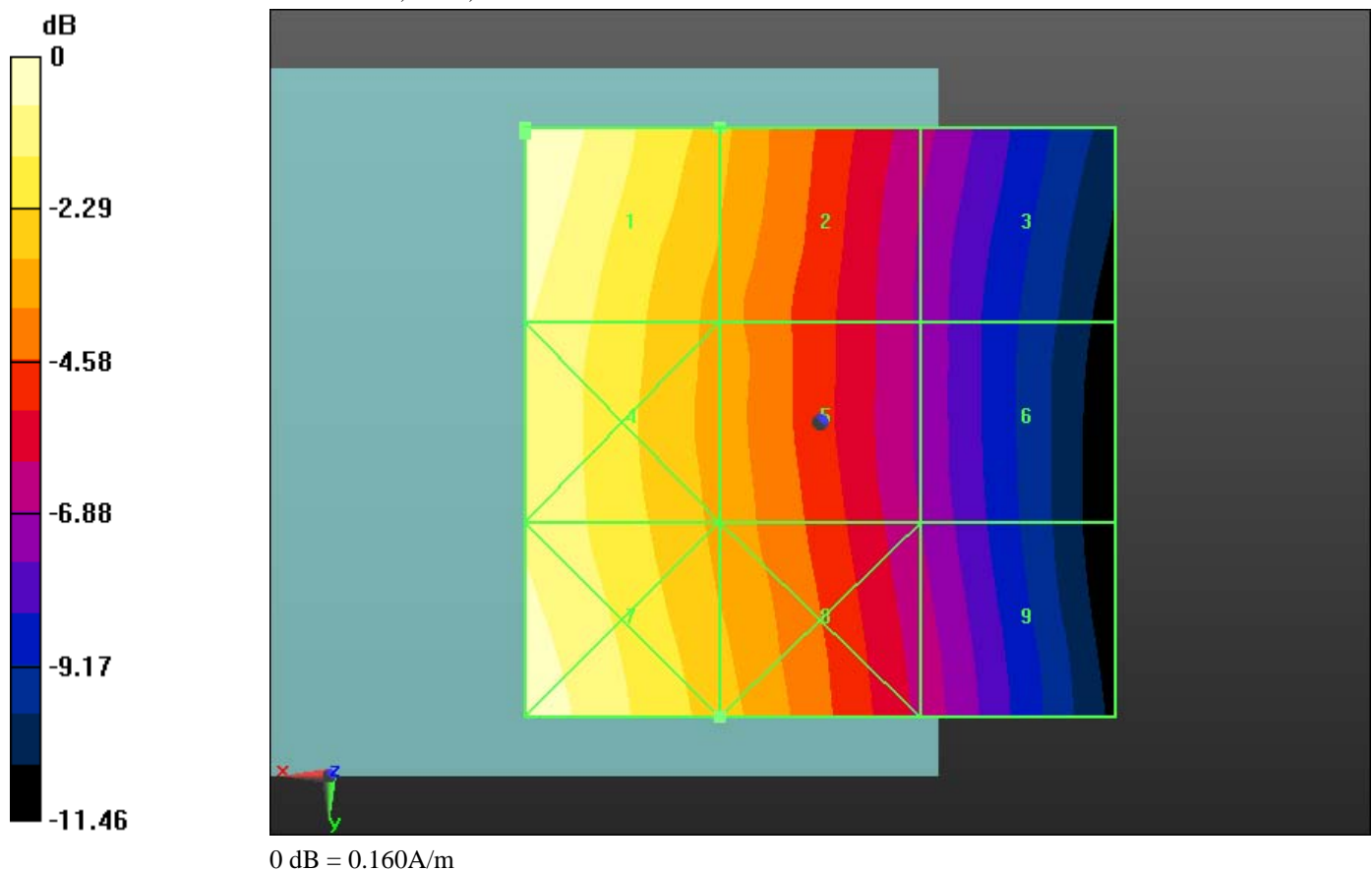
Peak H-field in A/m


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Author Data Andrew Becker	Dates of Test Mar. 22-23, June 19-22, 2011	Report No RTS-2604-1107-11	FCC ID L6ARDS40CW

Grid 1 0.169 M4	Grid 2 0.126 M4	Grid 3 0.081 M4
Grid 4 0.157 M4	Grid 5 0.119 M4	Grid 6 0.080 M4
Grid 7 0.168 M4	Grid 8 0.128 M4	Grid 9 0.084 M4

Cursor:

Total = 0.169 A/m
H Category: M4
Location: 25, -24.5, 8.7 mm



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Date/Time: 5/20/2011 1:49:19 AM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_CDMA800_telecoil

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E4DBBB

Communication System: CDMA 800; Communication System Band: CDMA 2000

BC 10 ; Frequency: 820.5 MHz;Communication System PAR: 0 dB

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device Telecoil/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.151 A/m


Probe Modulation Factor = 0.990

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.103 A/m; Power Drift = -0.07 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

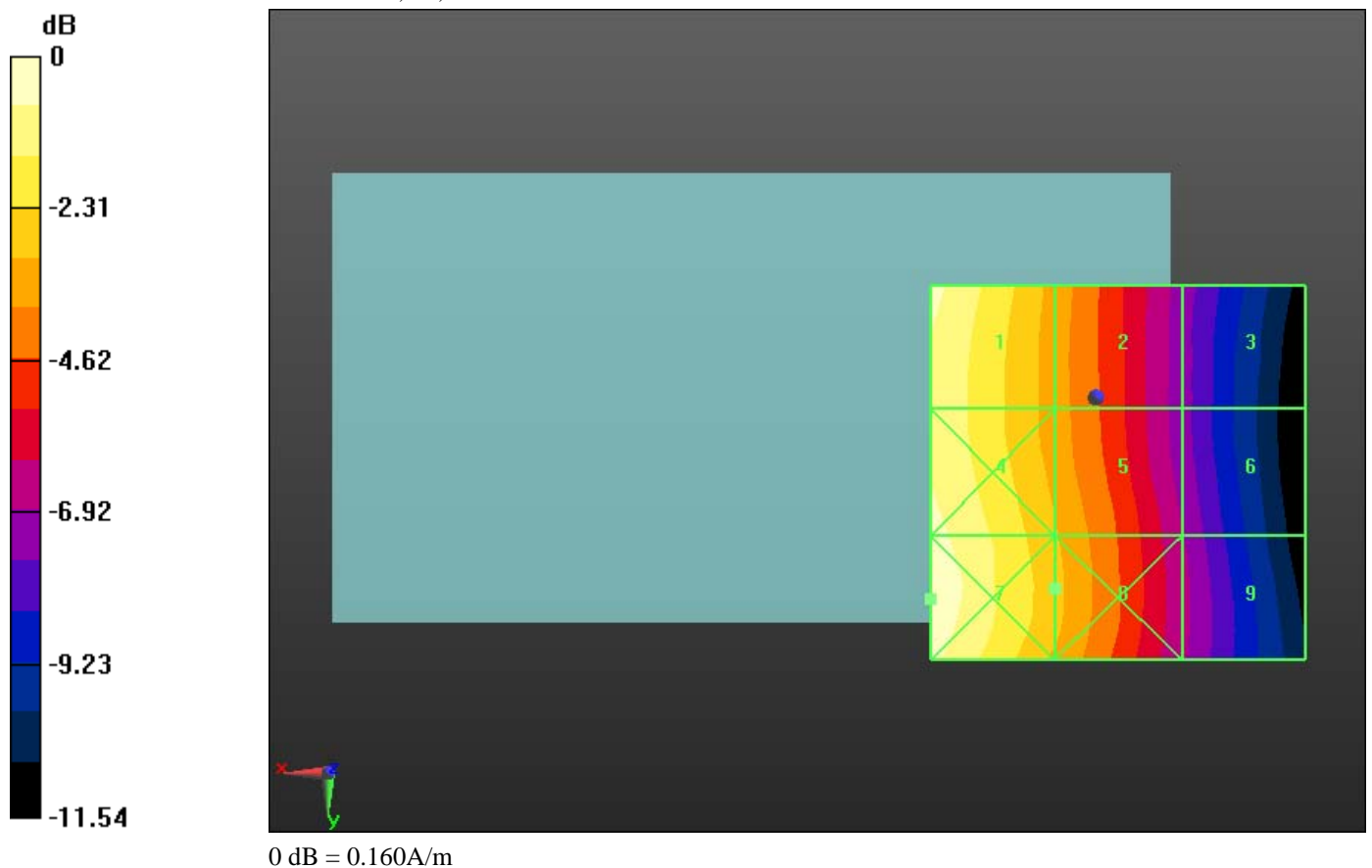
Peak H-field in A/m


	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDS41CW		Page 94 (106)
Author Data Andrew Becker	Dates of Test Mar. 22-23, June 19-22, 2011	Report No RTS-2604-1107-11	FCC ID L6ARDS40CW

Grid 1 0.151 M4	Grid 2 0.109 M4	Grid 3 0.070 M4
Grid 4 0.151 M4	Grid 5 0.114 M4	Grid 6 0.073 M4
Grid 7 0.156 M4	Grid 8 0.116 M4	Grid 9 0.075 M4

Cursor:

Total = 0.156 A/m
H Category: M4
Location: 22, 27, 8.7 mm



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Author Data Andrew Becker	Dates of Test Mar. 22-23, June 19-22, 2011	Report No RTS-2604-1107-11	FCC ID L6ARDS40CW

Date/Time: 5/20/2011 1:07:17 AM, Date/Time: 5/20/2011 1:11:24 AM,
Date/Time: 5/20/2011 1:15:24 AM, Date/Time: 5/20/2011 1:20:06 AM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_CDMA850

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E4DBBB

Communication System: CDMA 850; Communication System Band: CDMA 2000

Cellular; Frequency: 824.7 MHz, Frequency: 836.52 MHz, Frequency: 848.52

MHz;Communication System PAR: 0 dB

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Phantom section: RF Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 -

2007: 15 mm from Probe Center to the Device/Hearing Aid

Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm


Maximum value of peak Total field = 0.159 A/m

Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.093 A/m; Power Drift = -0.38 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

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Peak H-field in A/m

Grid 1 0.159 M4	Grid 2 0.109 M4	Grid 3 0.069 M4
Grid 4 0.144 M4	Grid 5 0.100 M4	Grid 6 0.063 M4
Grid 7 0.144 M4	Grid 8 0.105 M4	Grid 9 0.065 M4

Cursor:

Total = 0.159 A/m
H Category: M4
Location: 25, -25, 8.7 mm

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device

2/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.168 A/m

Probe Modulation Factor = 0.970


Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.112 A/m; Power Drift = 0.03 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.168 M4	Grid 2 0.124 M4	Grid 3 0.084 M4
Grid 4 0.154 M4	Grid 5 0.119 M4	Grid 6 0.080 M4
Grid 7 0.165 M4	Grid 8 0.126 M4	Grid 9 0.082 M4

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Cursor:

Total = 0.168 A/m
H Category: M4
Location: 25, -25, 8.7 mm

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2 2/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.171 A/m

Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.122 A/m; Power Drift = 0.09 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.171 M4	Grid 2 0.128 M4	Grid 3 0.085 M4
Grid 4 0.169 M4	Grid 5 0.135 M4	Grid 6 0.095 M4
Grid 7 0.185 M4	Grid 8 0.148 M4	Grid 9 0.102 M4

Cursor:

Total = 0.185 A/m
H Category: M4
Location: 25, 25, 8.7 mm

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 1/8/Hearing Aid Compatibility Test (101x101x1): Measurement

grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.178 A/m

Probe Modulation Factor = 2.760

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.044 A/m; Power Drift = 0.01 dB

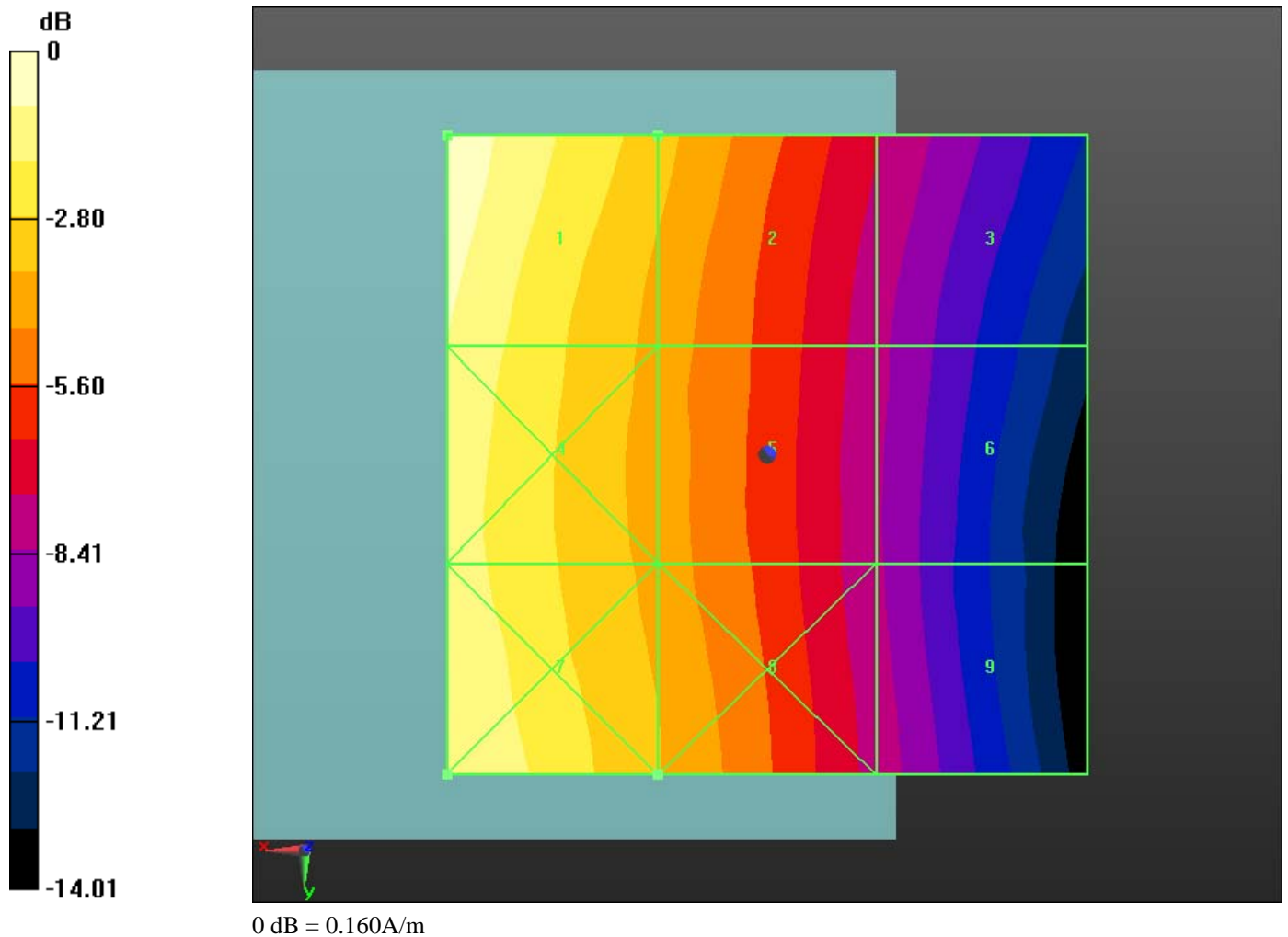
Hearing Aid Near-Field Category: M4 (AWF 0 dB)


Peak H-field in A/m

Grid 1 0.178 M4	Grid 2 0.128 M4	Grid 3 0.086 M4
Grid 4 0.172 M4	Grid 5 0.135 M4	Grid 6 0.095 M4
Grid 7 0.187 M4	Grid 8 0.149 M4	Grid 9 0.103 M4

Cursor:

Total = 0.187 A/m
H Category: M4
Location: 25, 25, 8.7 mm



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Author Data Andrew Becker	Dates of Test Mar. 22-23, June 19-22, 2011	Report No RTS-2604-1107-11	FCC ID L6ARDS40CW

Date/Time: 5/20/2011 1:24:23 AM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_CDMA850_Telecoil

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E4DBBB

Communication System: CDMA 850; Communication System Band: CDMA 2000

Cellular; Frequency: 848.52 MHz; Communication System PAR: 0 dB

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Phantom section: RF Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device Telecoil/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.178 A/m


Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.124 A/m; Power Drift = 0.02 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

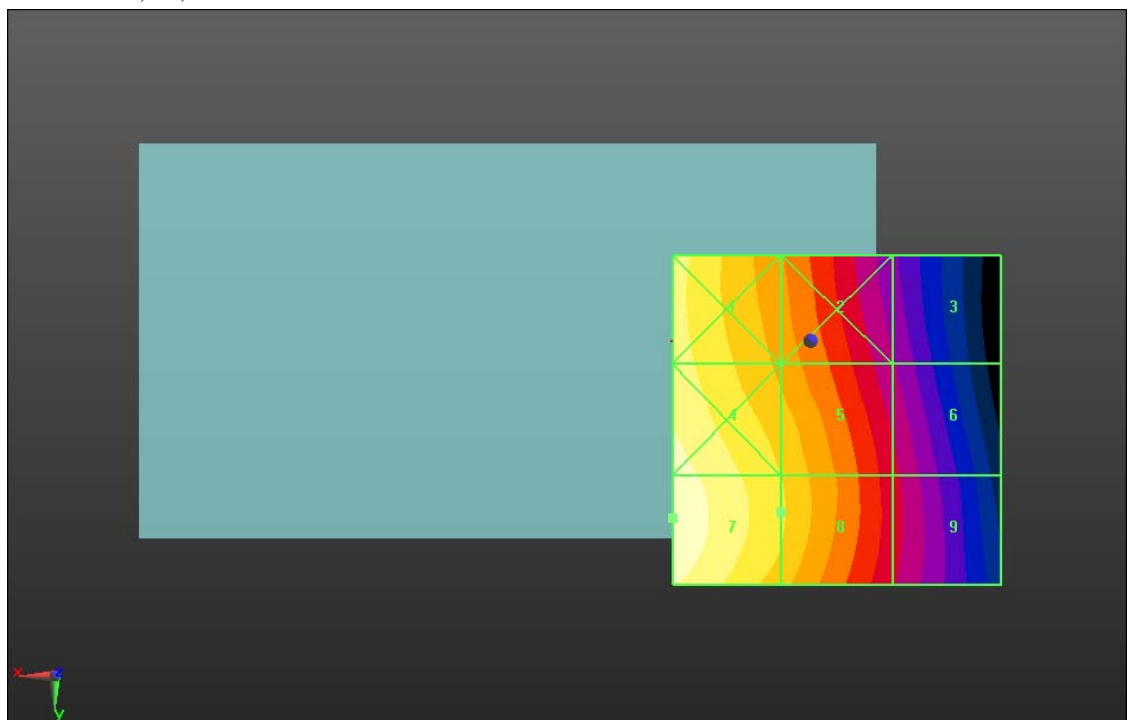
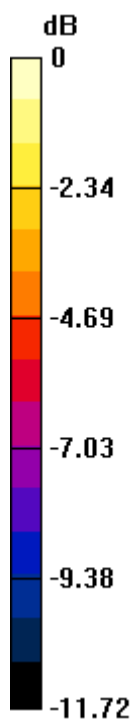
Peak H-field in A/m

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Grid 1 0.158 M4	Grid 2 0.123 M4	Grid 3 0.081 M4
Grid 4 0.173 M4	Grid 5 0.138 M4	Grid 6 0.091 M4
Grid 7 0.178 M4	Grid 8 0.140 M4	Grid 9 0.092 M4

Cursor:

Total = 0.178 A/m
H Category: M4
Location: 21, 27, 8.7 mm



0 dB = 0.180A/m

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Date/Time: 5/20/2011 12:38:10 AM, Date/Time: 5/20/2011 12:41:43 AM,
Date/Time: 5/20/2011 12:45:21 AM, Date/Time: 5/20/2011 12:50:35 AM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_CDMA1900

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E4DBBB

Communication System: CDMA 1900; Communication System Band: CDMA
2000 PCS; Frequency: 1851.25 MHz, Frequency: 1880 MHz, Frequency: 1908.5
MHz;Communication System PAR: 0 dB

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 -

2007: 15 mm from Probe Center to the Device/Hearing Aid

Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm


Maximum value of peak Total field = 0.069 A/m

Probe Modulation Factor = 0.820

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.094 A/m; Power Drift = 0.11 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

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Peak H-field in A/m

Grid 1 0.093 M4	Grid 2 0.071 M4	Grid 3 0.069 M4
Grid 4 0.056 M4	Grid 5 0.069 M4	Grid 6 0.069 M4
Grid 7 0.058 M4	Grid 8 0.057 M4	Grid 9 0.057 M4

Cursor:

Total = 0.093 A/m
H Category: M4
Location: 25, -25, 8.7 mm

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device

2/Hearing Aid Compatibility Test (101x101x1): Measurement grid:
dx=5mm, dy=5mm

Maximum value of peak Total field = 0.067 A/m

Probe Modulation Factor = 0.820


Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.088 A/m; Power Drift = 0.07 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.093 M4	Grid 2 0.074 M4	Grid 3 0.064 M4
Grid 4 0.056 M4	Grid 5 0.067 M4	Grid 6 0.064 M4
Grid 7 0.060 M4	Grid 8 0.054 M4	Grid 9 0.054 M4

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Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2

2/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.069 A/m

Probe Modulation Factor = 0.820

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.095 A/m; Power Drift = -0.05 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.092 M4	Grid 2 0.074 M4	Grid 3 0.066 M4
Grid 4 0.058 M4	Grid 5 0.069 M4	Grid 6 0.066 M4
Grid 7 0.056 M4	Grid 8 0.053 M4	Grid 9 0.052 M4

Cursor:

Total = 0.092 A/m

H Category: M4

Location: 25, -25, 8.7 mm

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device

1/8/Hearing Aid Compatibility Test (101x101x1): Measurement

grid: dx=5mm, dy=5mm


Maximum value of peak Total field = 0.069 A/m

Probe Modulation Factor = 2.470

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.034 A/m; Power Drift = -0.12 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

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Author Data Andrew Becker	Dates of Test Mar. 22-23, June 19-22, 2011	Report No RTS-2604-1107-11	FCC ID L6ARDS40CW

Peak H-field in A/m

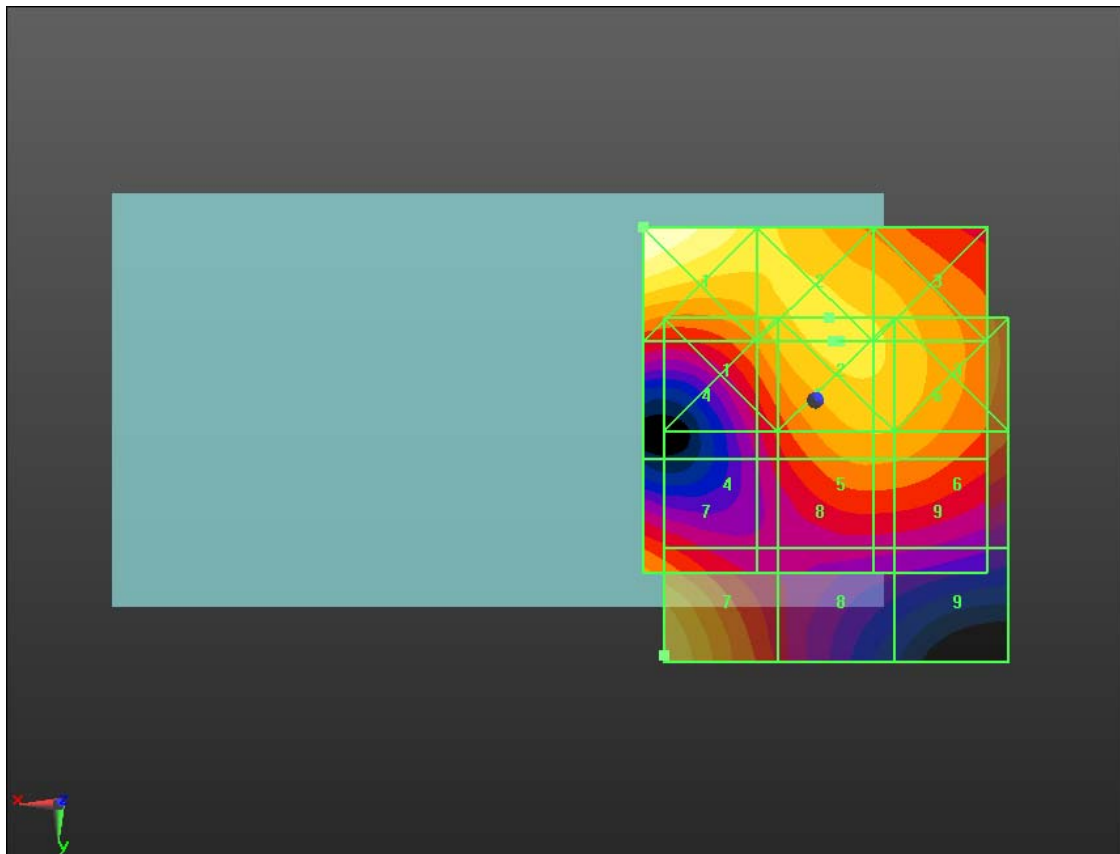
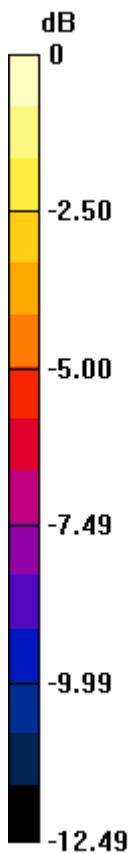
Grid 1 0.070 M4	Grid 2 0.075 M4	Grid 3 0.070 M4
Grid 4 0.051 M4	Grid 5 0.065 M4	Grid 6 0.064 M4
Grid 7 0.069 M4	Grid 8 0.045 M4	Grid 9 0.042 M4

Cursor:


Total = 0.075 A/m

H Category: M4

Location: -2, -12, 8.7 mm



0 dB = 0.090A/m

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Author Data Andrew Becker	Dates of Test Mar. 22-23, June 19-22, 2011	Report No RTS-2604-1107-11	FCC ID L6ARDS40CW

Date/Time: 5/20/2011 12:55:10 AM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_CDMA1900_Telecoil

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E4DBBB

Communication System: CDMA 1900; Communication System Band: CDMA

2000 PCS; Frequency: 1851.25 MHz; Communication System PAR: 0 dB

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Phantom section: RF Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 -

2007: 15 mm from Probe Center to the Device Telecoil/Hearing Aid

Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.070 A/m

Probe Modulation Factor = 0.820


Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.095 A/m; Power Drift = -0.03 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
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0.066 M4	0.070 M4	0.065 M4
Grid 4 0.048 M4	Grid 5 0.061 M4	Grid 6 0.060 M4
Grid 7 0.064 M4	Grid 8 0.042 M4	Grid 9 0.038 M4

Cursor:

Total = 0.070 A/m
H Category: M4
Location: -1, -12, 8.7 mm

