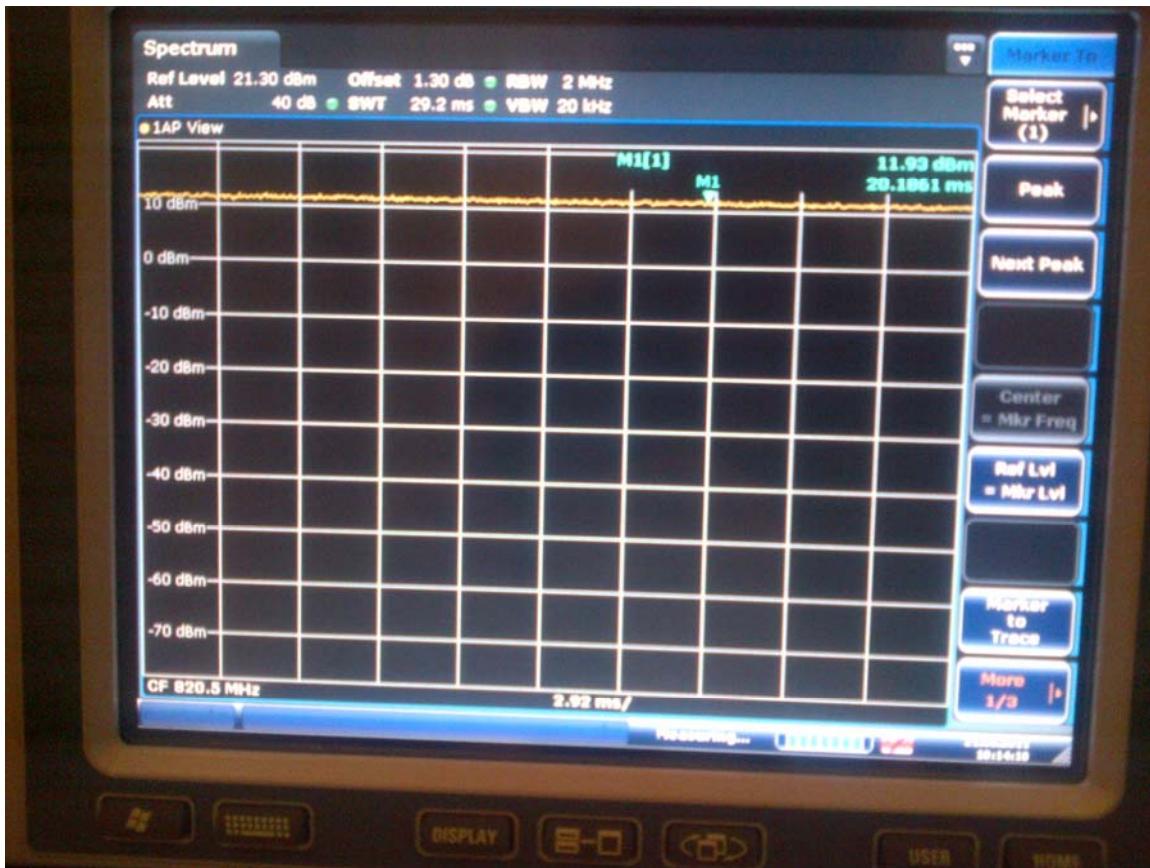


	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDS41CW	Page 1 (106)
Author Data Andrew Becker	Dates of Test Mar. 22-23, June 19-22, 2011	Report No RTS-2604-1107-11

Annex A: Measurement data and plots

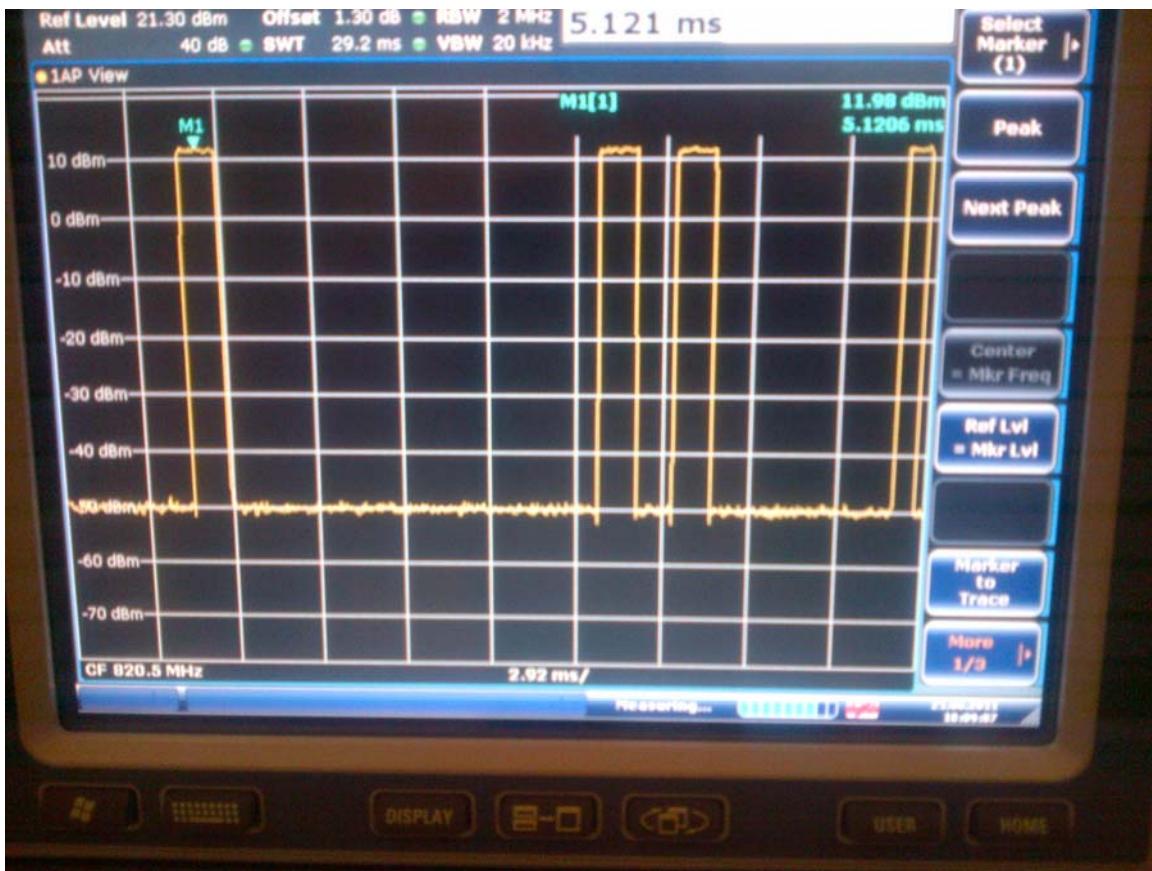
A.1 Spectrum analyser plots: CDMA, CW, 80%AM, signals

Author Data Andrew Becker	Dates of Test Mar. 22-23, June 19-22, 2011	Report No RTS-2604-1107-11	FCC ID L6ARDS40CW
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CDMA BC10 800 MHz

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CDMA BC10 800 MHz 1/8th



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**CW 800 MHz**



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Andrew Becker

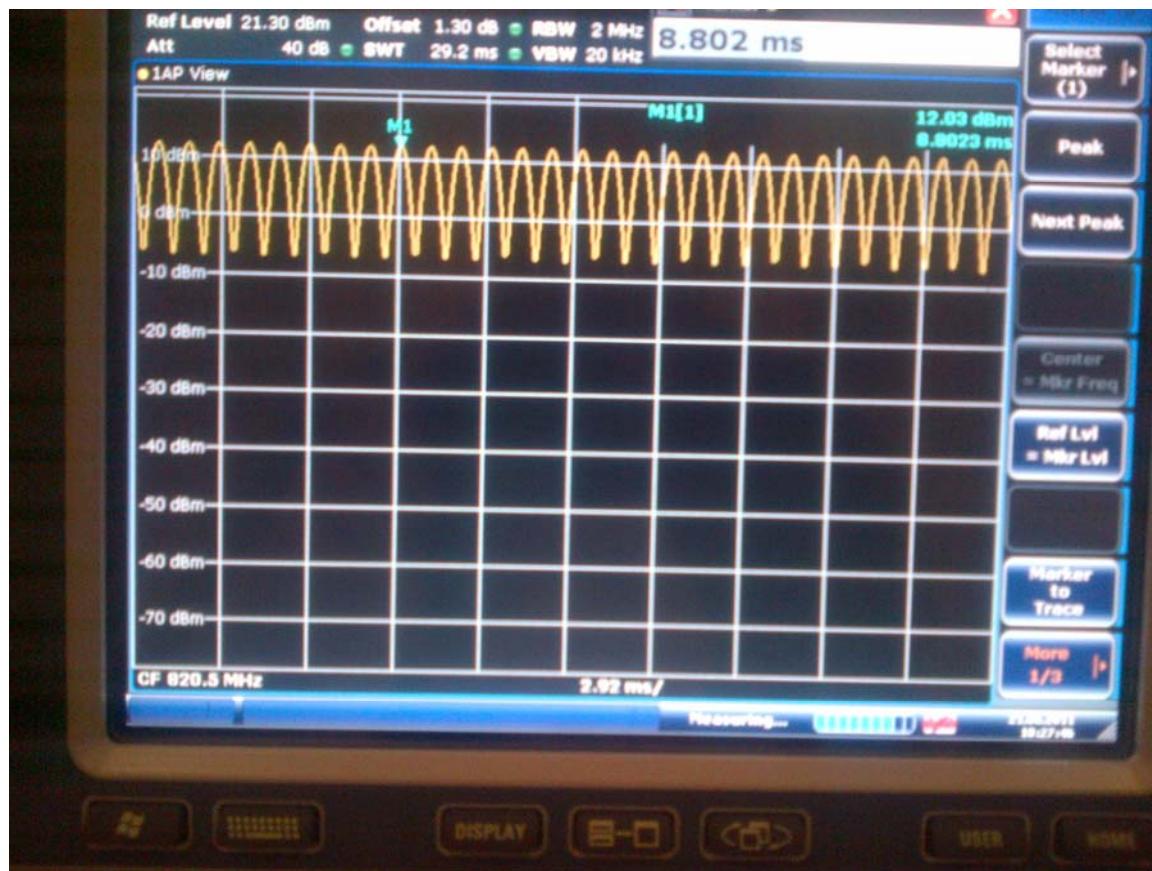
Dates of Test

Mar. 22-23, June 19-22, 2011

Report No

RTS-2604-1107-11

FCC ID

L6ARDS40CW**AM 80% 800 MHz**

Author Data
Andrew Becker

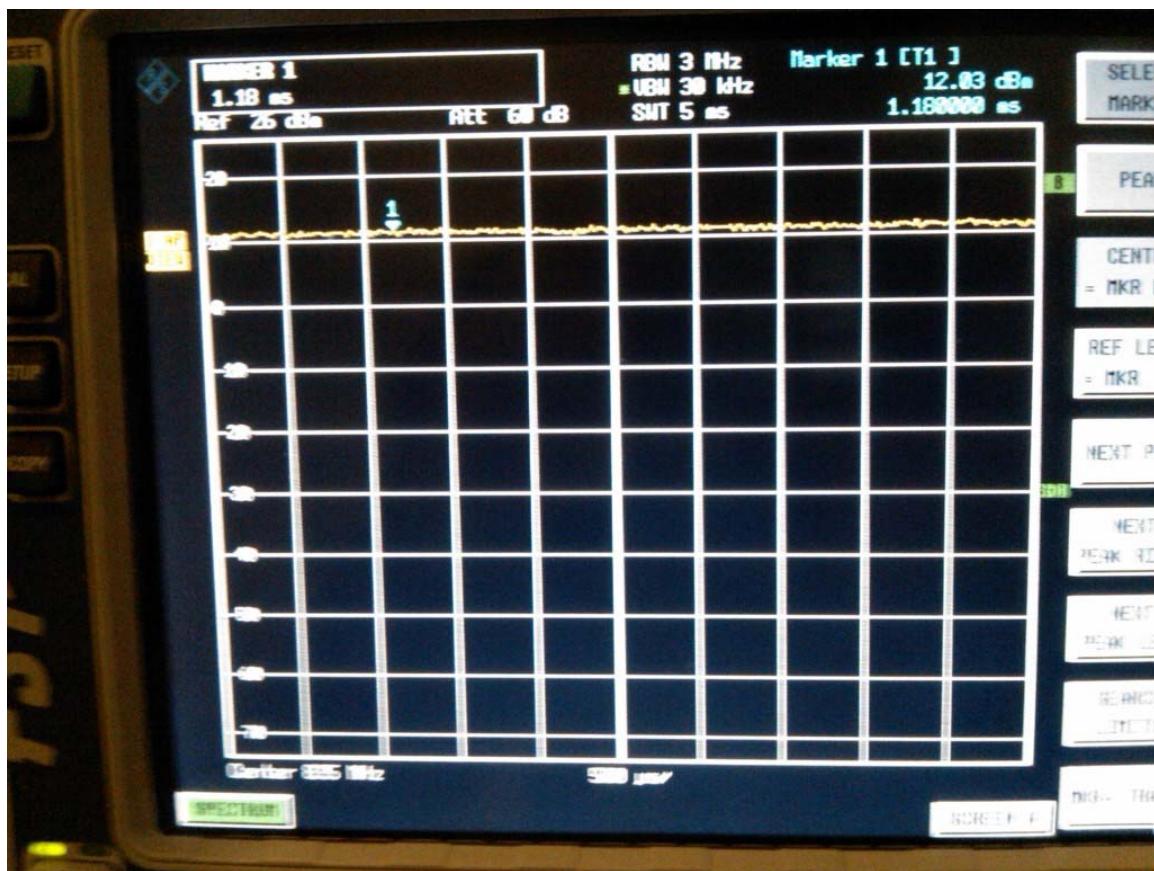
Dates of Test

Mar. 22-23, June 19-22, 2011

Report No

RTS-2604-1107-11

FCC ID

L6ARDS40CW**CDMA Cell 835 MHz**

Author Data
Andrew Becker

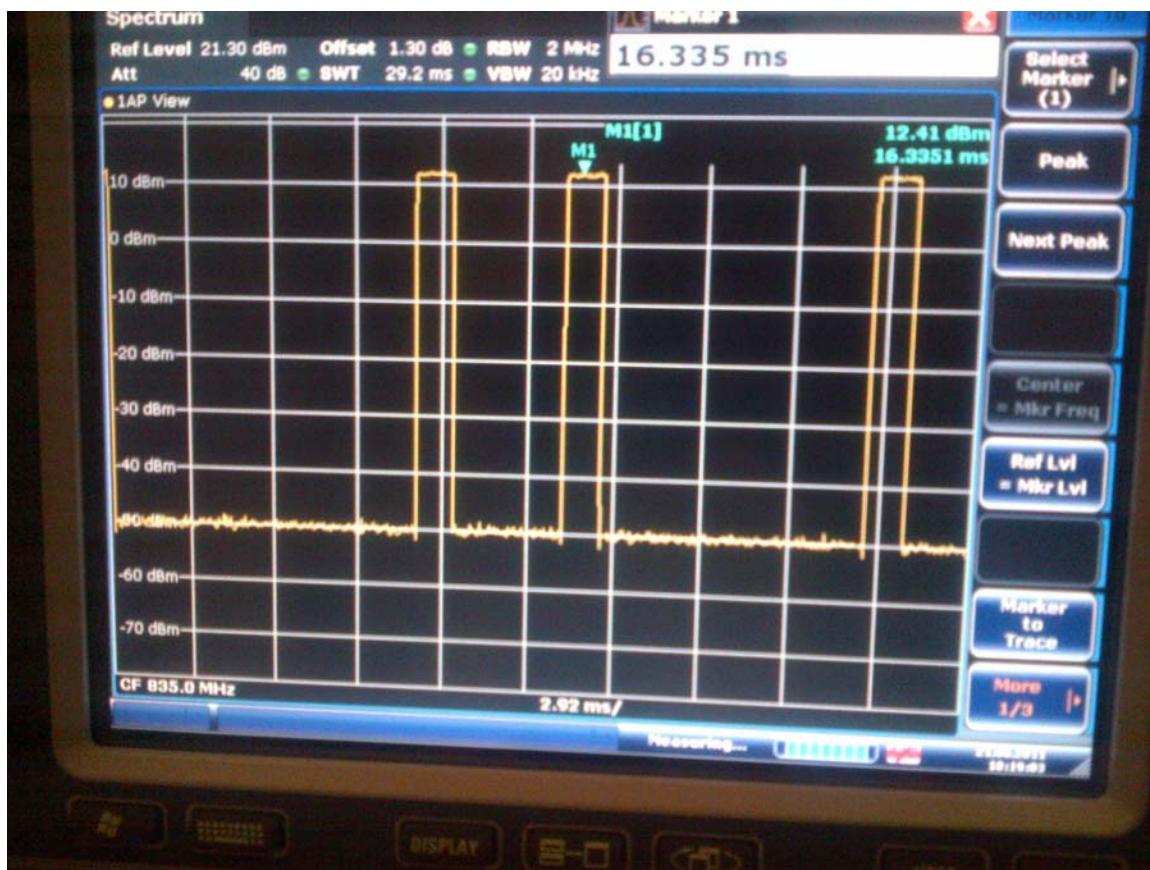
Dates of Test

Mar. 22-23, June 19-22, 2011

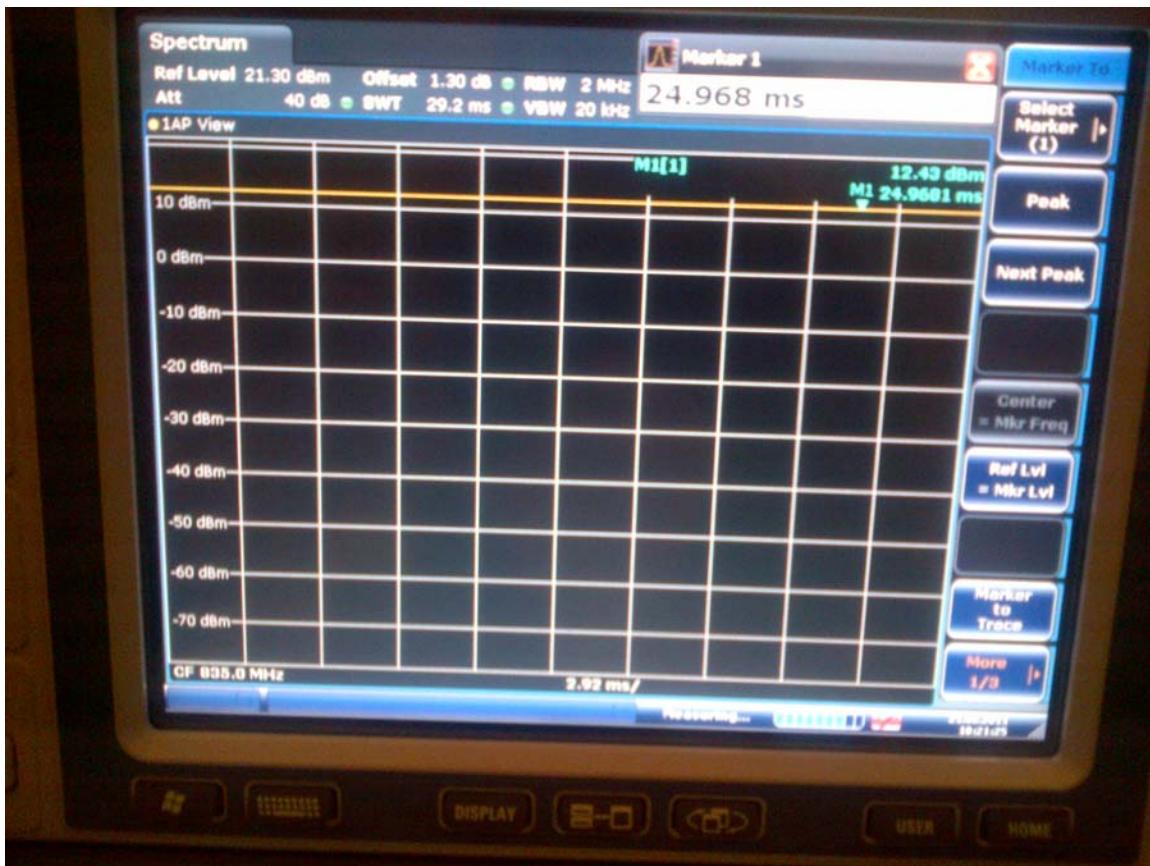
Report No

RTS-2604-1107-11

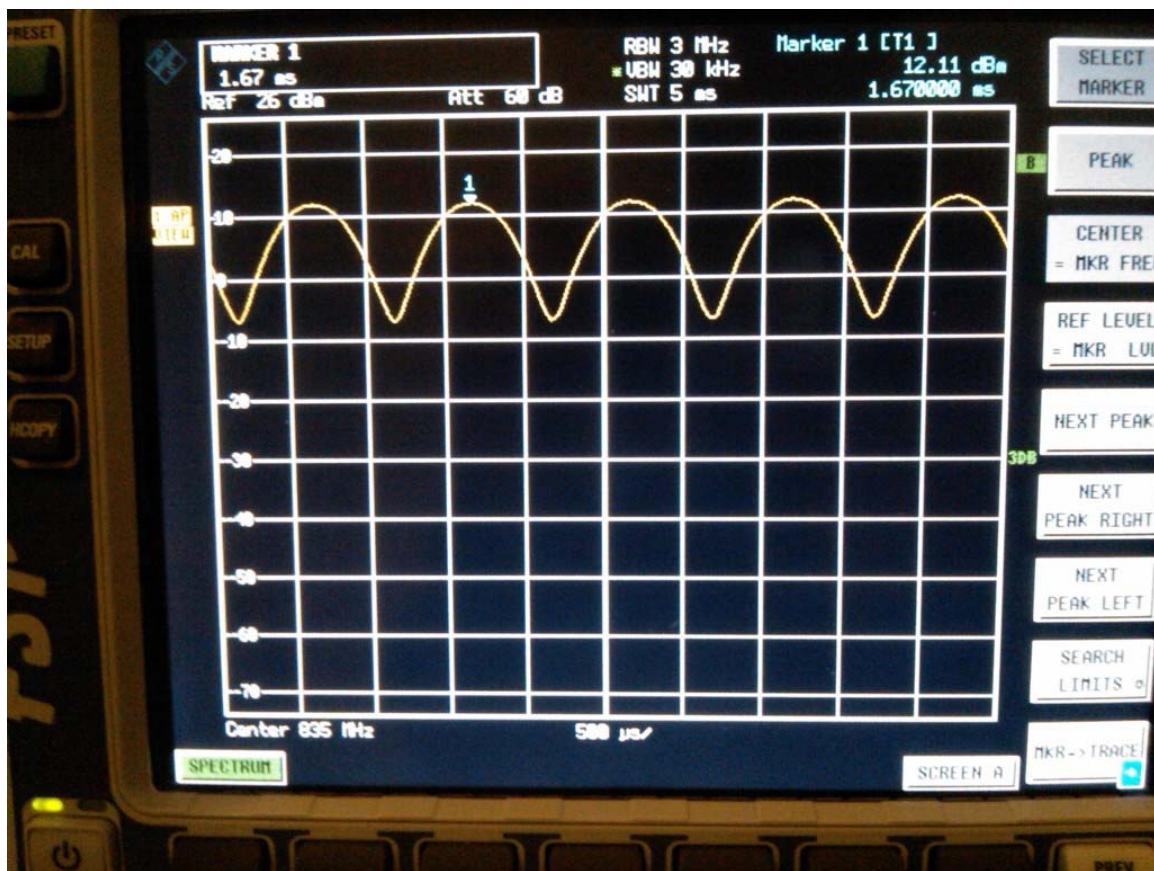
FCC ID

L6ARDSD40CW
CDMA Cell 835 MHz 1/8th

Author Data Andrew Becker	Dates of Test Mar. 22-23, June 19-22, 2011	Report No RTS-2604-1107-11	FCC ID L6ARDs40CW
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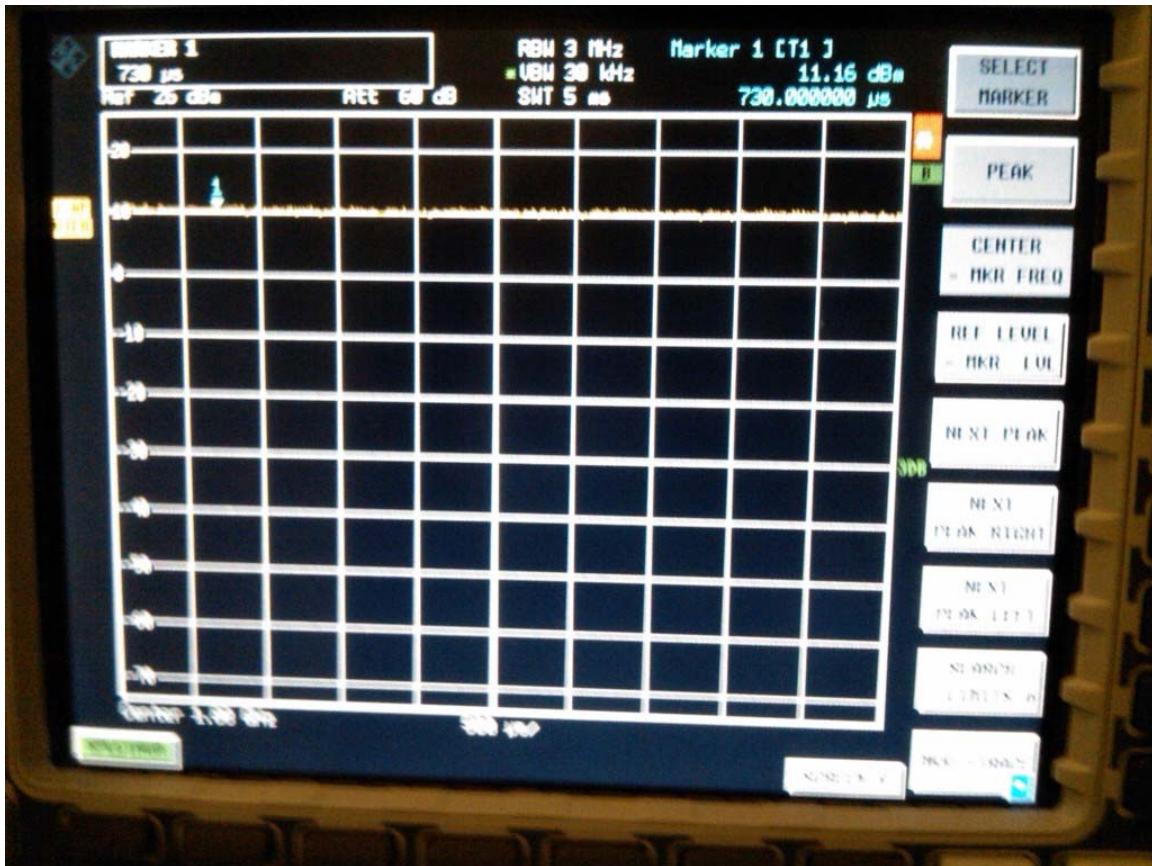
**CW 835 MHz**

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AM 80% 835 MHz

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CDMA 1880 MHz

Author Data
Andrew Becker

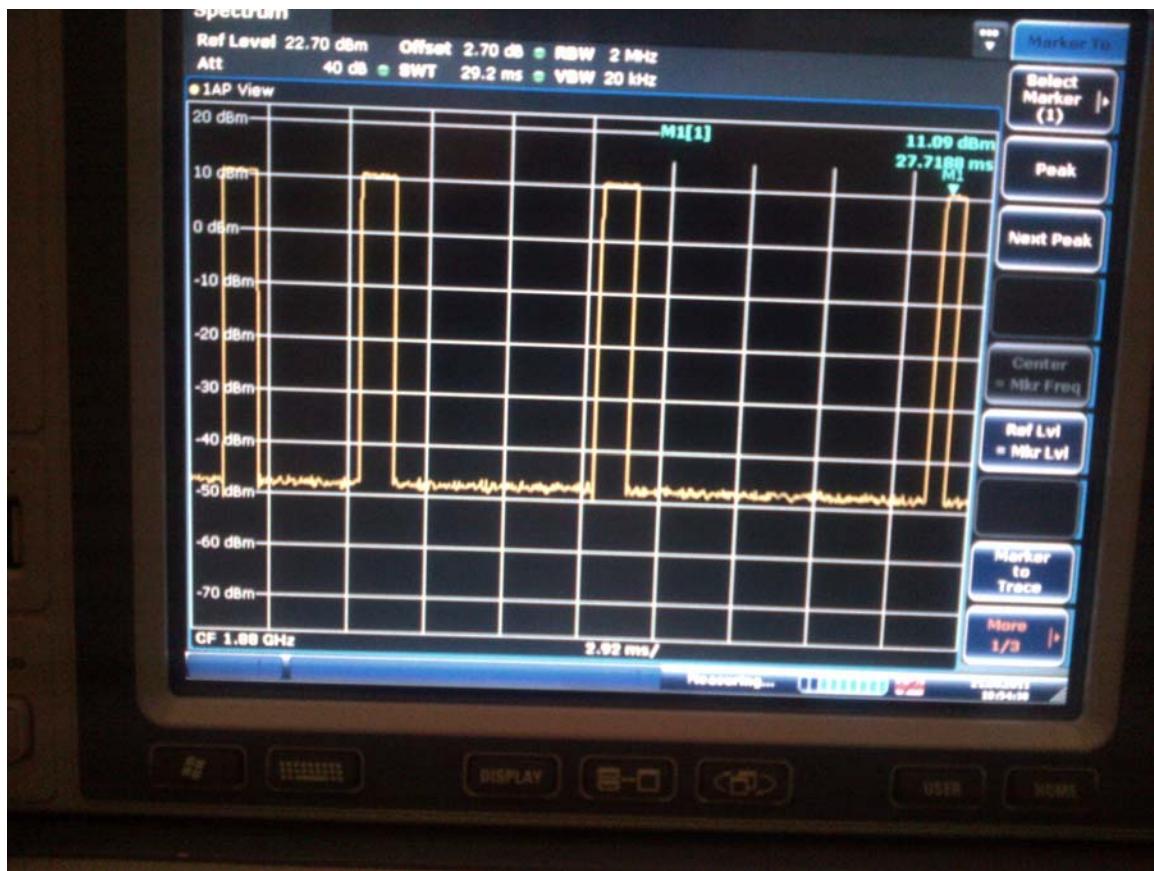
Dates of Test

Mar. 22-23, June 19-22, 2011

Report No

RTS-2604-1107-11

FCC ID

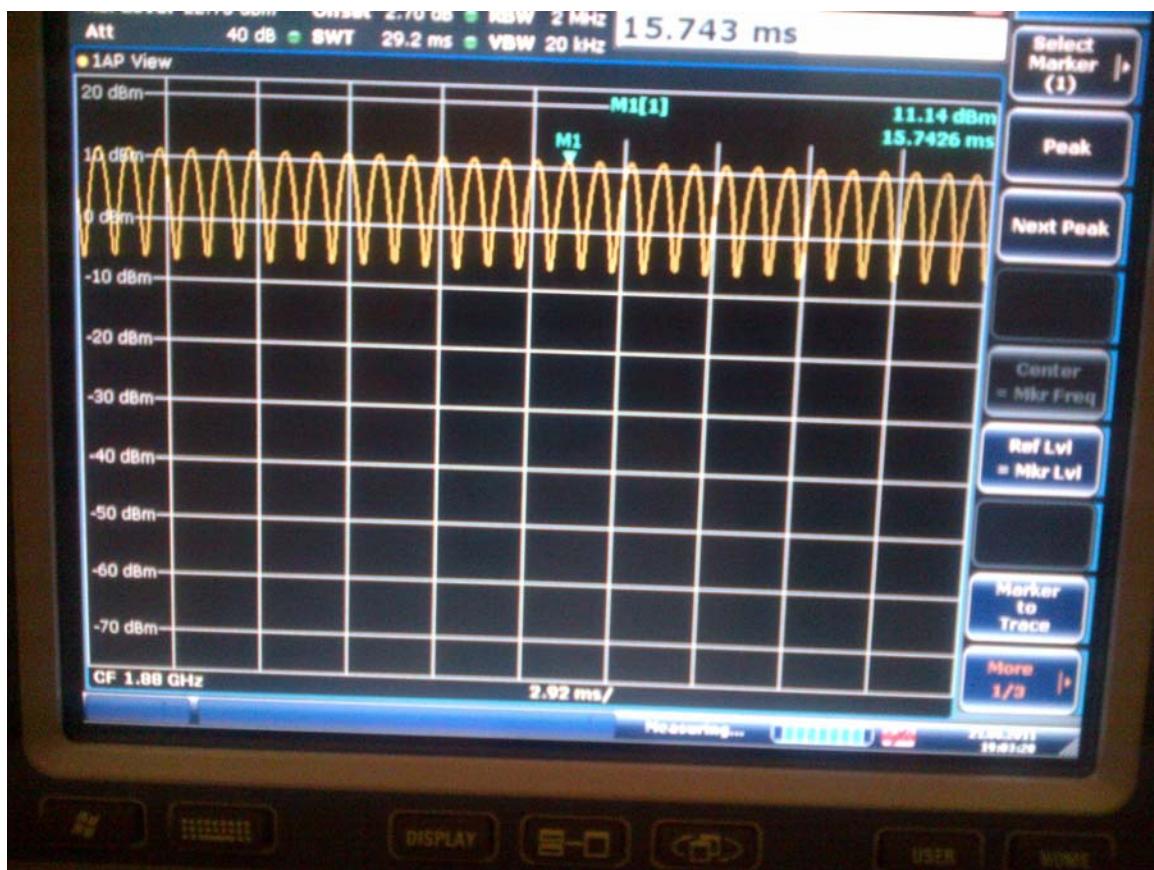
L6ARDS40CW**CDMA 1880 MHz 1/8 th**

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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

 Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDS41CW		
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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

Author Data

Andrew Becker

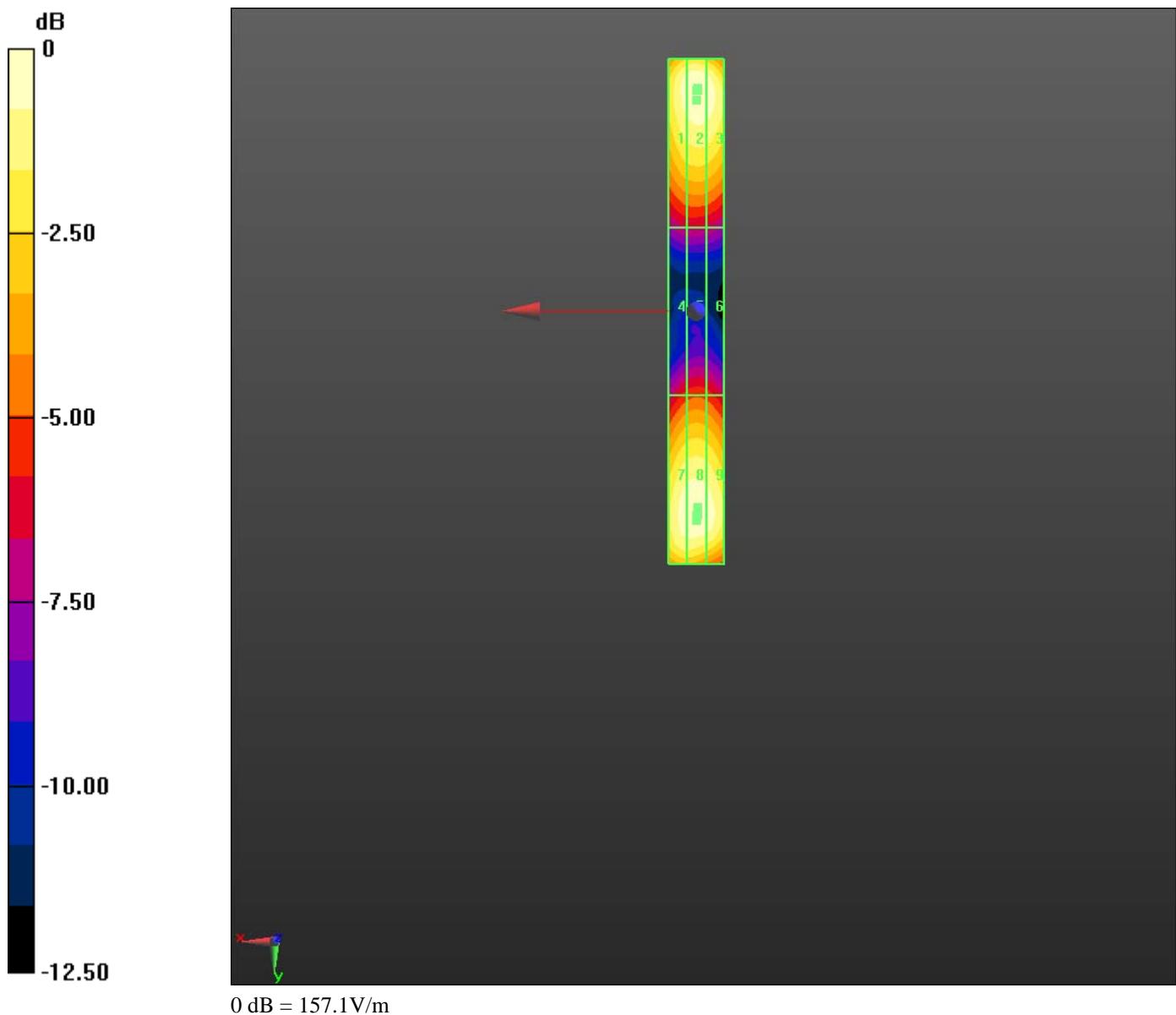
Dates of Test

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FCC ID

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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: 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: 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)

Author Data
Andrew Becker

Dates of Test

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Report No

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FCC ID

L6ARDS40CW

Peak E-field in V/m

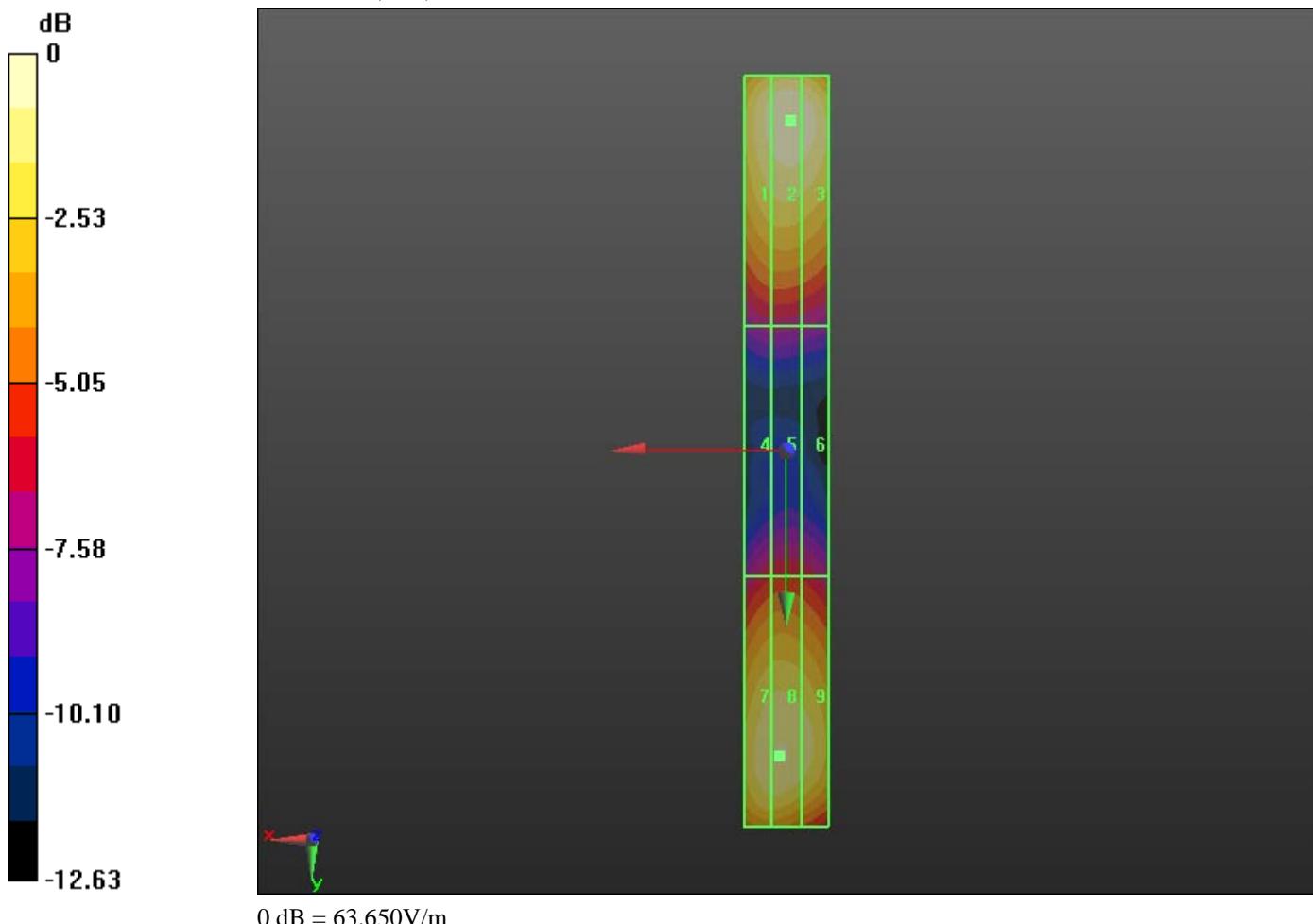
Grid 1 60.457 M4	Grid 2 63.653 M4	Grid 3 62.702 M4
Grid 4 32.119 M4	Grid 5 32.806 M4	Grid 6 32.009 M4
Grid 7 57.694 M4	Grid 8 58.081 M4	Grid 9 56.094 M4

Cursor:

Total = 63.653 V/m

E Category: M4

Location: -1, -79, 4.7 mm



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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

Author Data
Andrew Becker

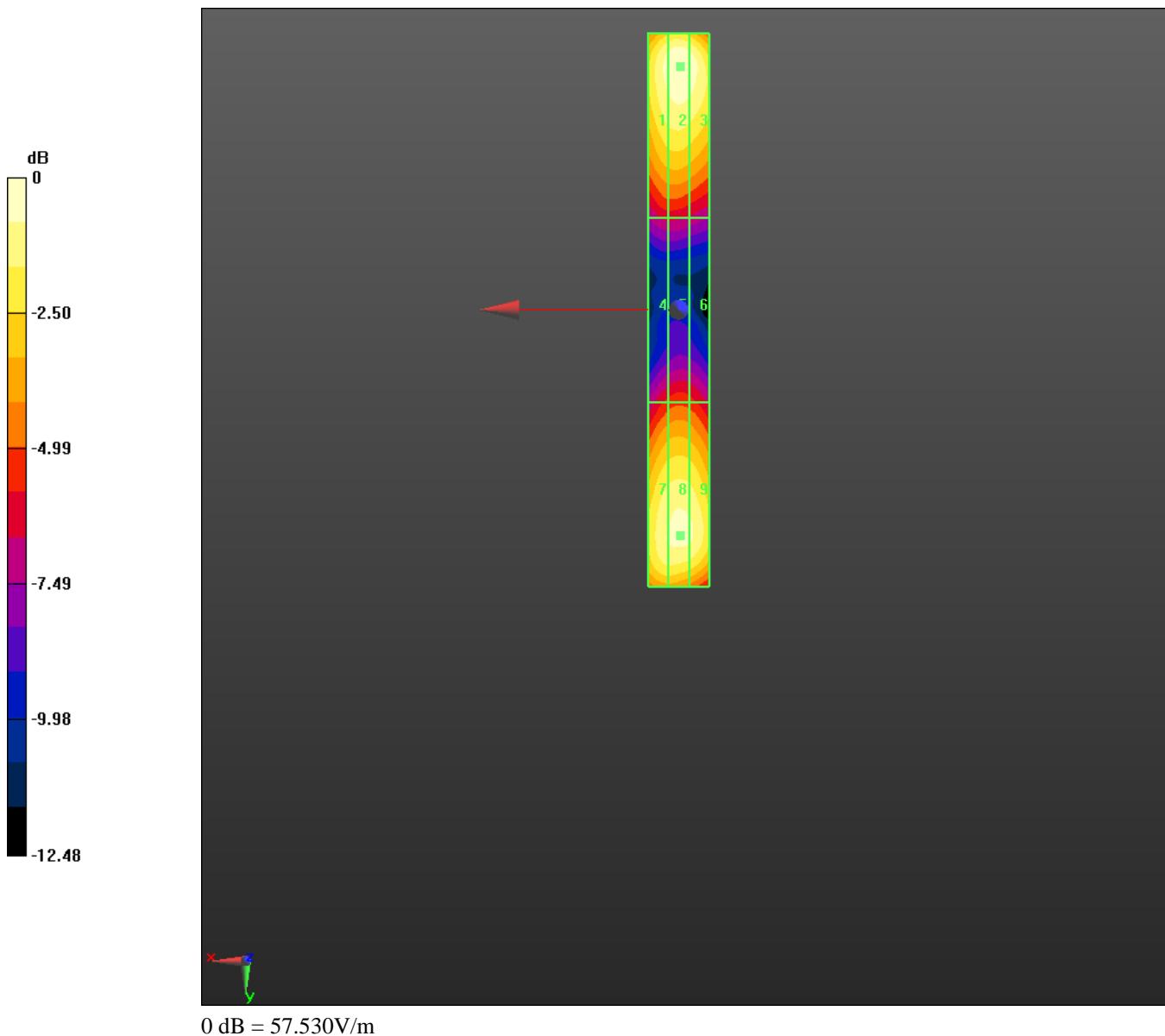
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Date/Time: 6/21/2011 5:50:59 PM, Date/Time: 6/21/2011 6:15:20 PM,
Date/Time: 6/21/2011 6:18:51 PM, Date/Time: 6/21/2011 6:28:10 PM

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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**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

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

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

Author Data

Andrew Becker

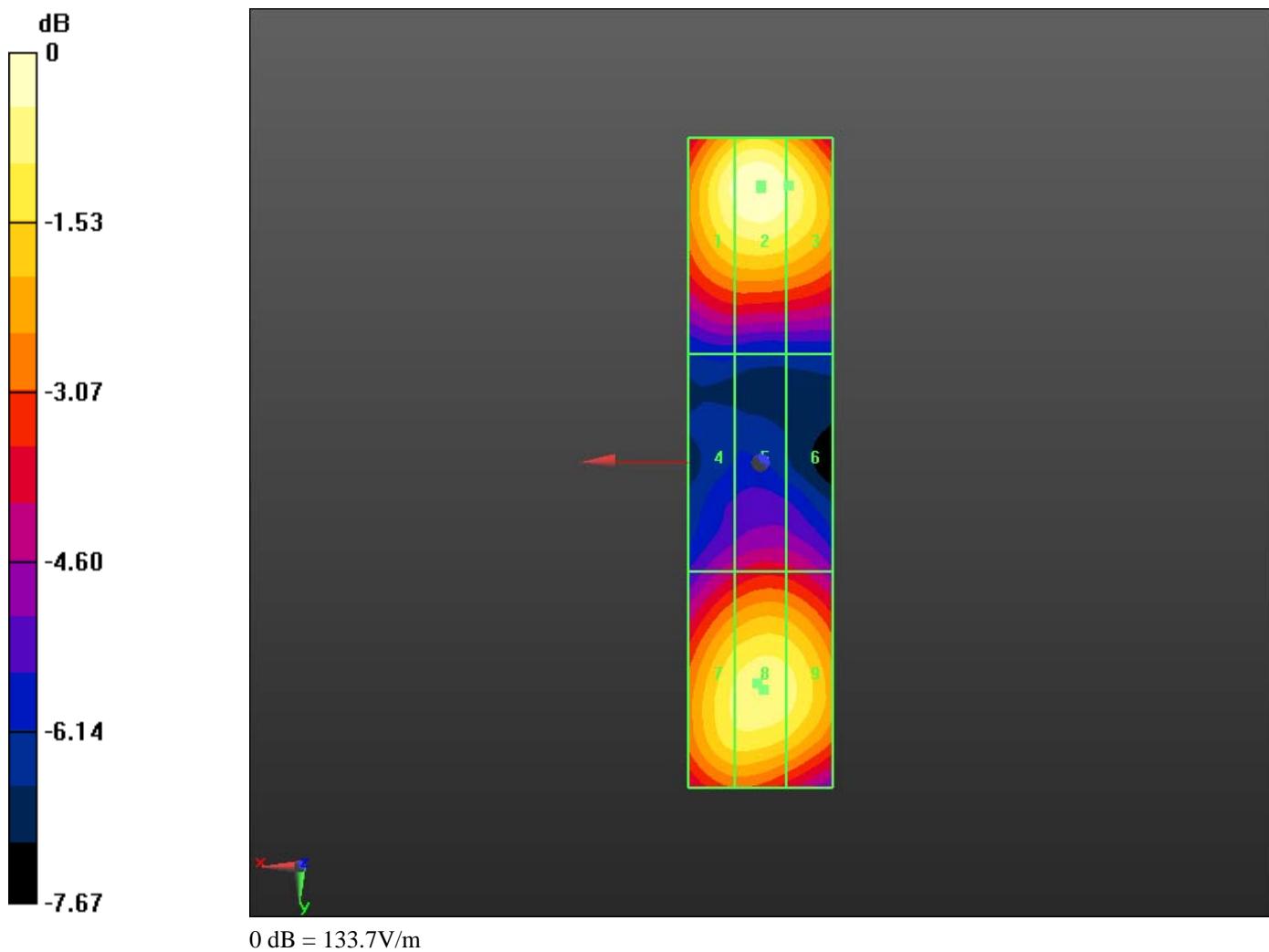
Dates of Test

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FCC ID

L6ARDS40CW

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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: 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: 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)

Author Data
Andrew Becker

Dates of Test

Mar. 22-23, June 19-22, 2011

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Peak E-field in V/m

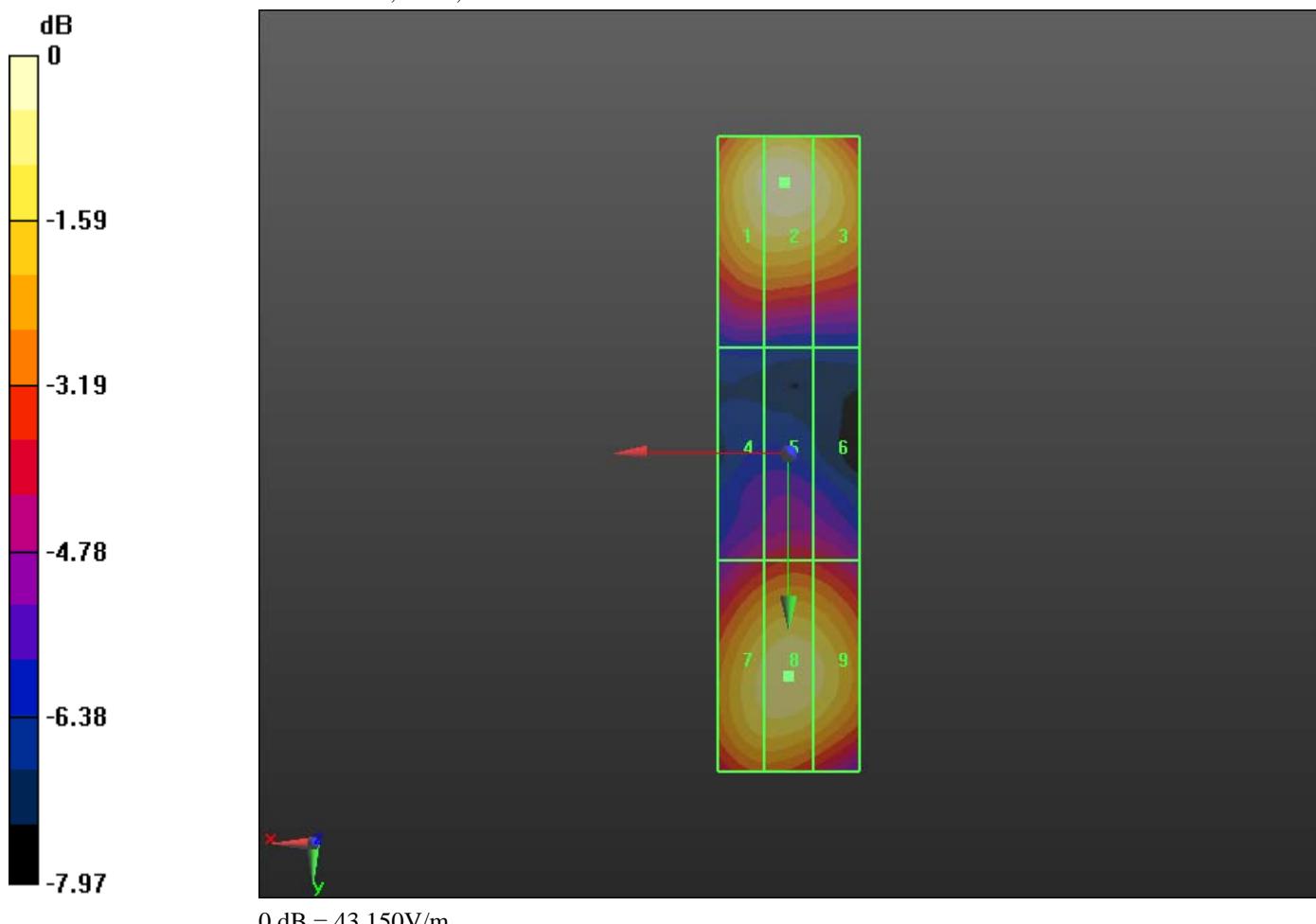
Grid 1 41.912 M4	Grid 2 43.150 M4	Grid 3 40.971 M4
Grid 4 26.905 M4	Grid 5 28.223 M4	Grid 6 27.711 M4
Grid 7 39.111 M4	Grid 8 40.205 M4	Grid 9 39.292 M4

Cursor:

Total = 43.150 V/m

E Category: M4

Location: 0.5, -38.5, 4.7 mm



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

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

**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

Author Data

Andrew Becker

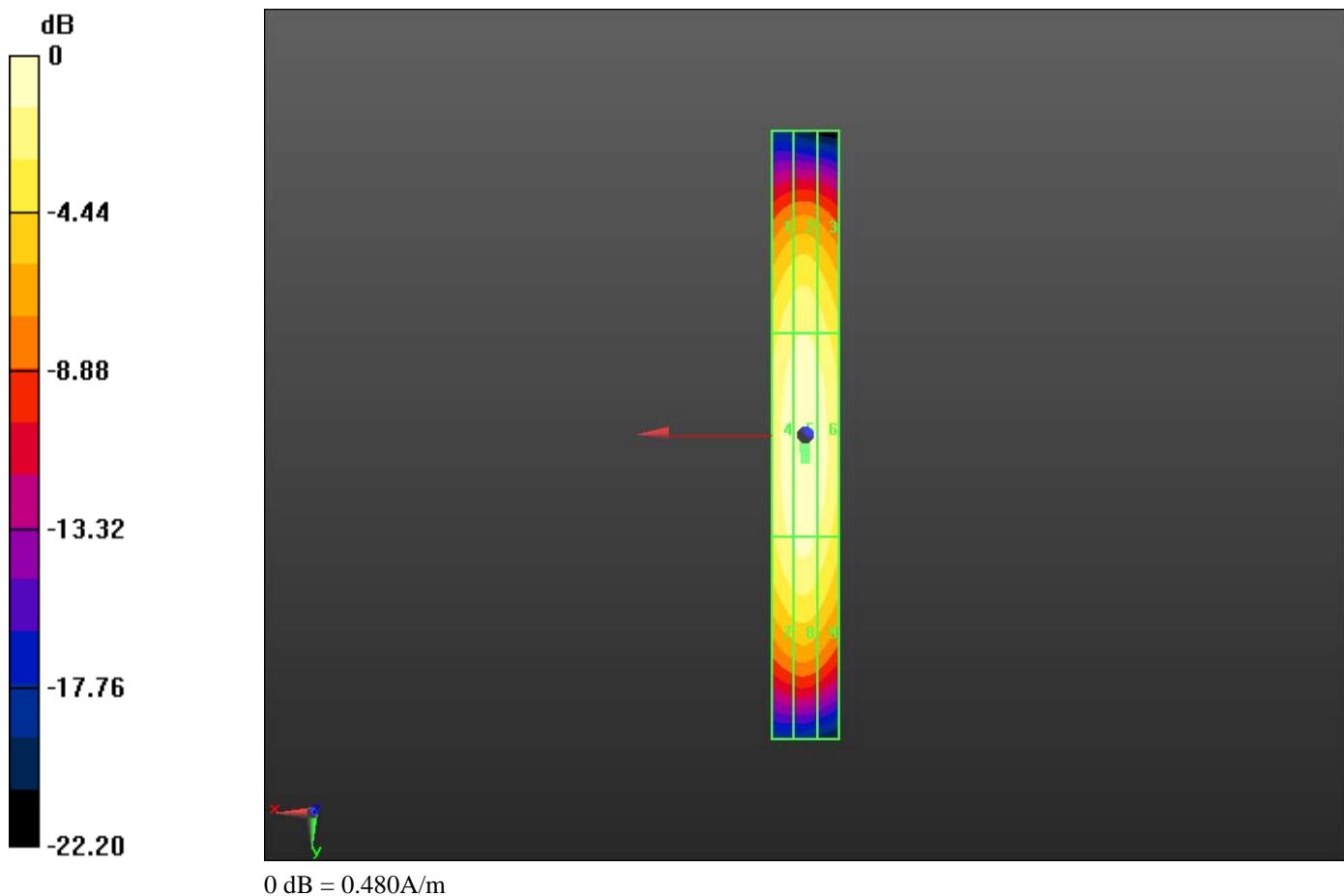
Dates of Test

Mar. 22-23, June 19-22, 2011

Report No

RTS-2604-1107-11

FCC ID

L6ARDS40CW

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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: DASY5 (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

Author Data

Andrew Becker

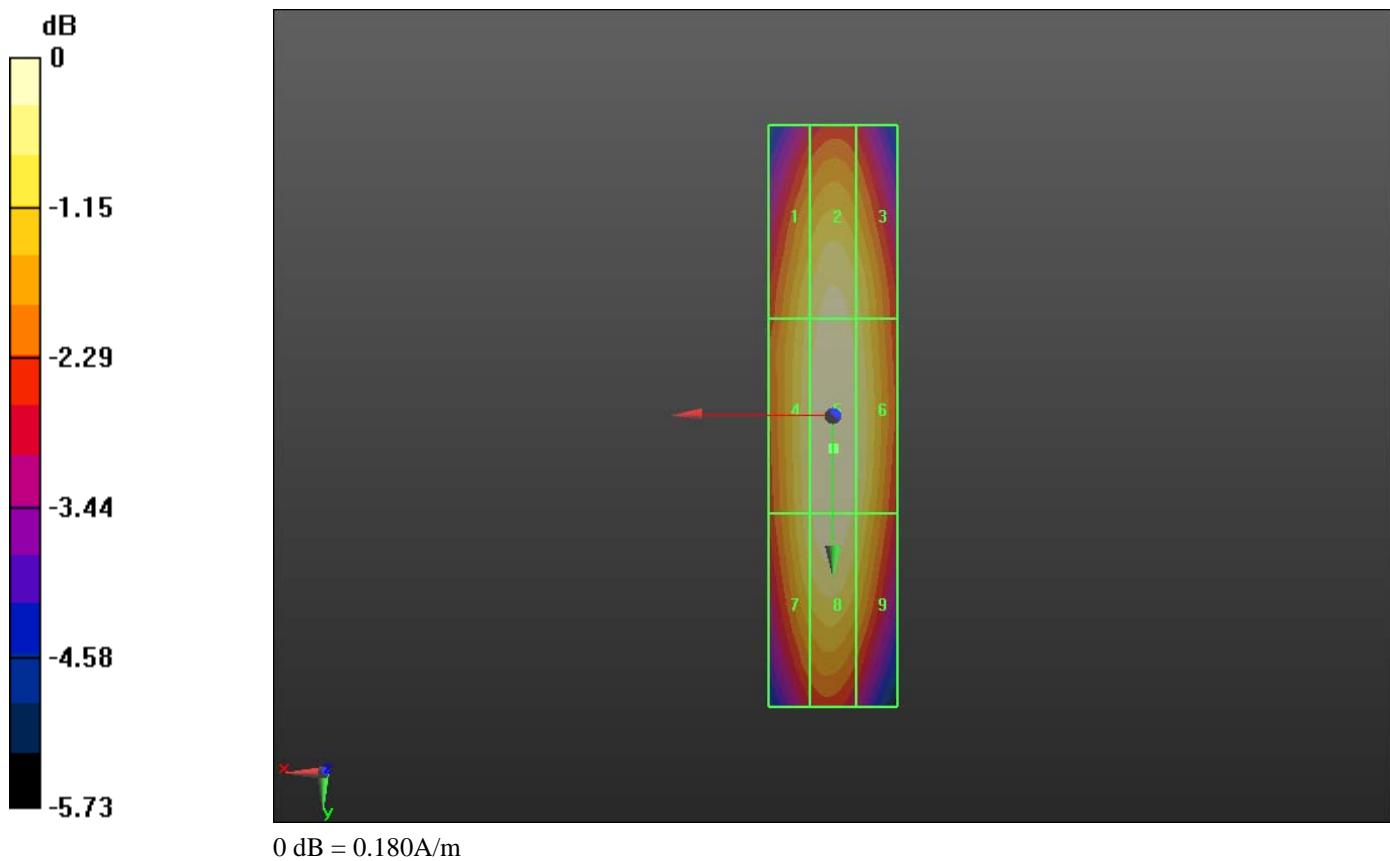
Dates of Test

Mar. 22-23, June 19-22, 2011

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FCC ID

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 <p>Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDS41CW</p>			Page 50 (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: 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

Author Data

Andrew Becker

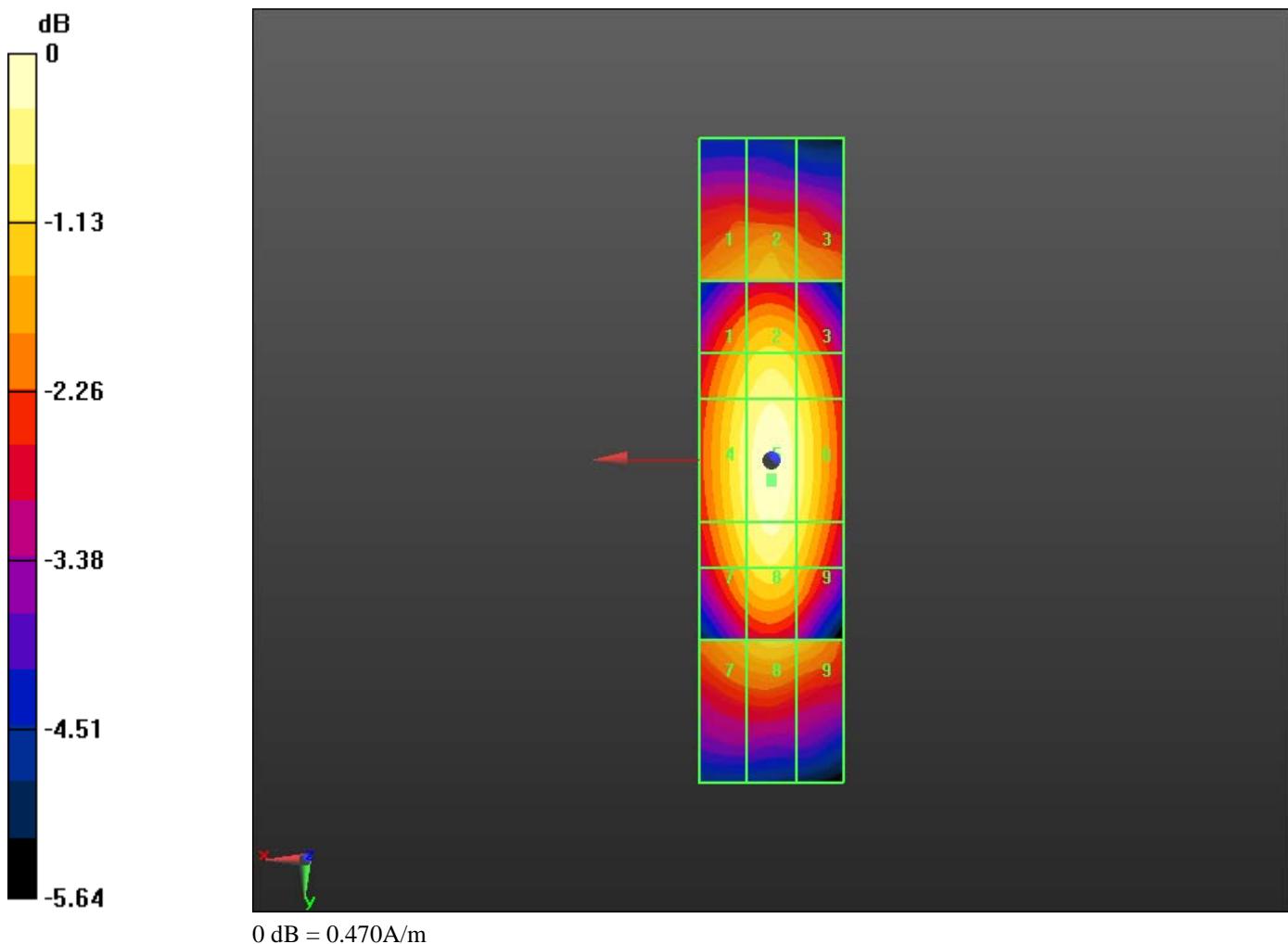
Dates of Test

Mar. 22-23, June 19-22, 2011

Report No

RTS-2604-1107-11

FCC ID

L6ARDS40CW

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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: DASY5 (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

Author Data

Andrew Becker

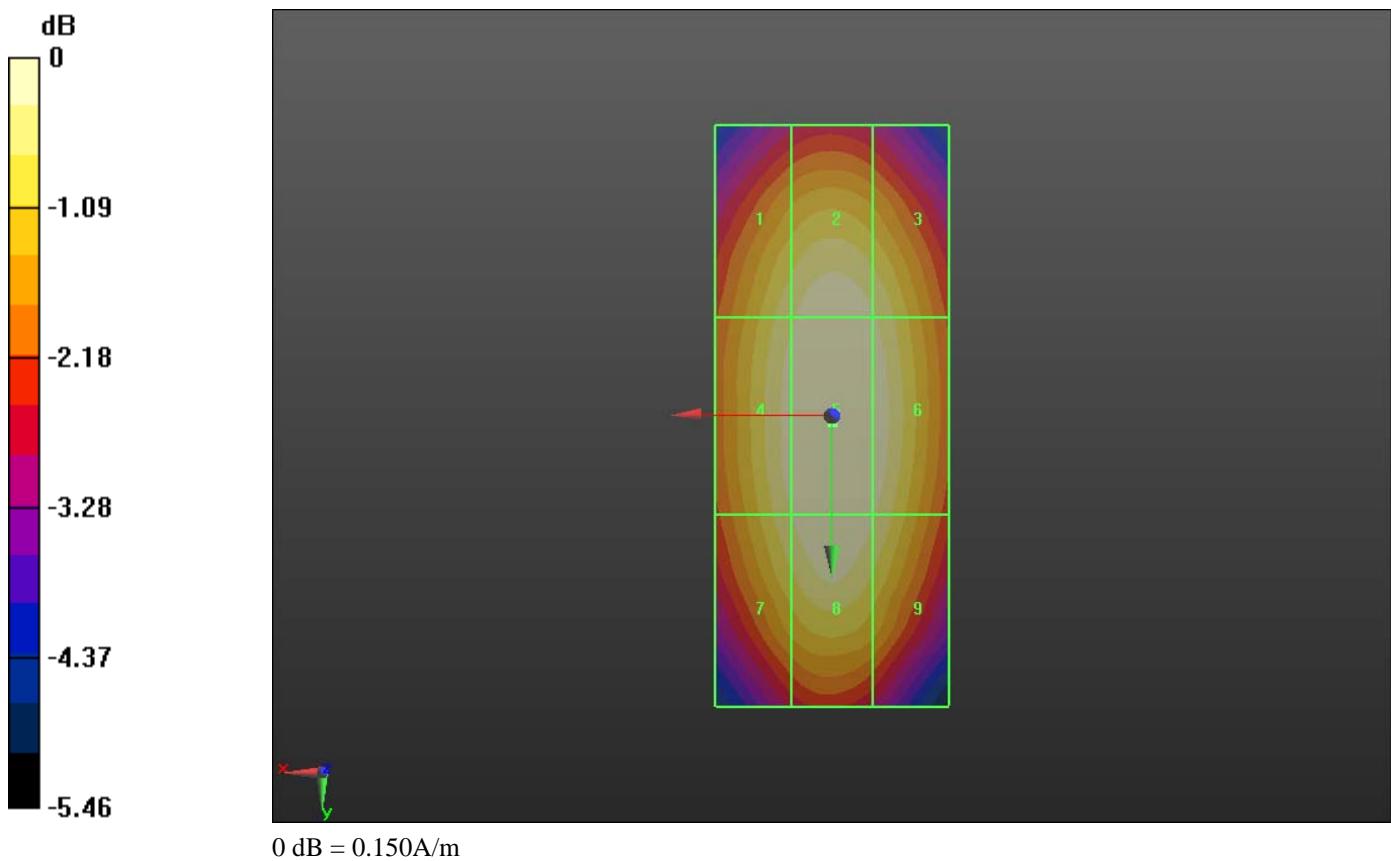
Dates of Test

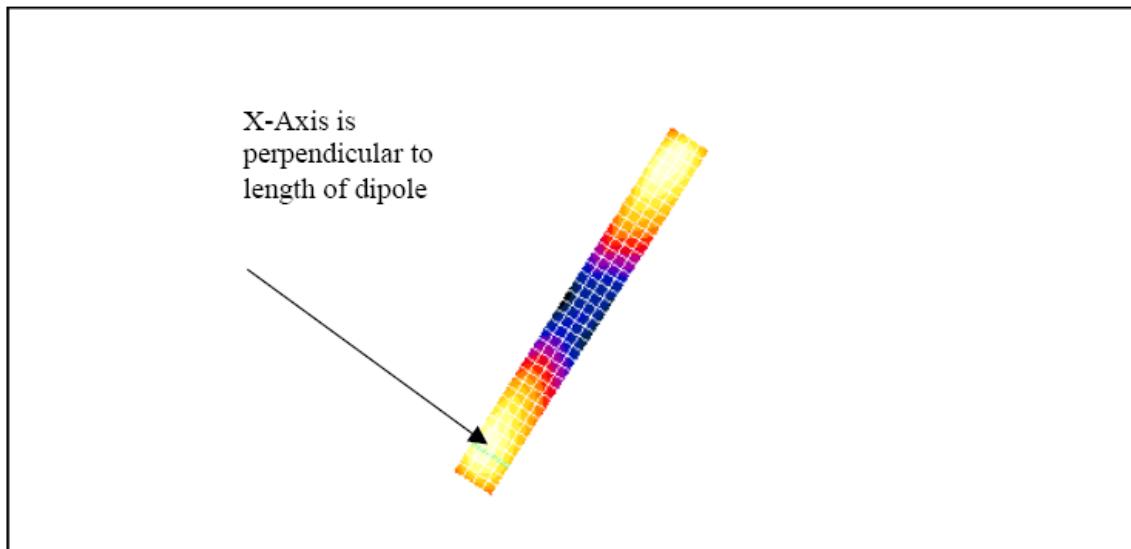
Mar. 22-23, June 19-22, 2011

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RTS-2604-1107-11

FCC ID

L6ARDS40CW



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
80.9	92.3	92.2	80.9	92.3	92.2
119.8	131.0	130.7	119.8	131.0	130.7

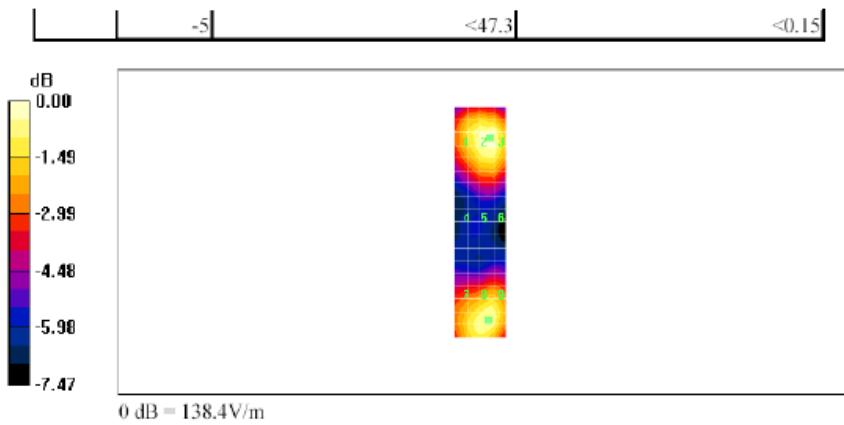
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

file:///C:/Program%20Files/DASY4/Print_Templates/Dipole%20Validation%201880%20... 14/07/2005

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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
81.4	92.1	91.6	81.4	92.1	91.6
121.3	131.2	131.0	121.3	131.2	131.0

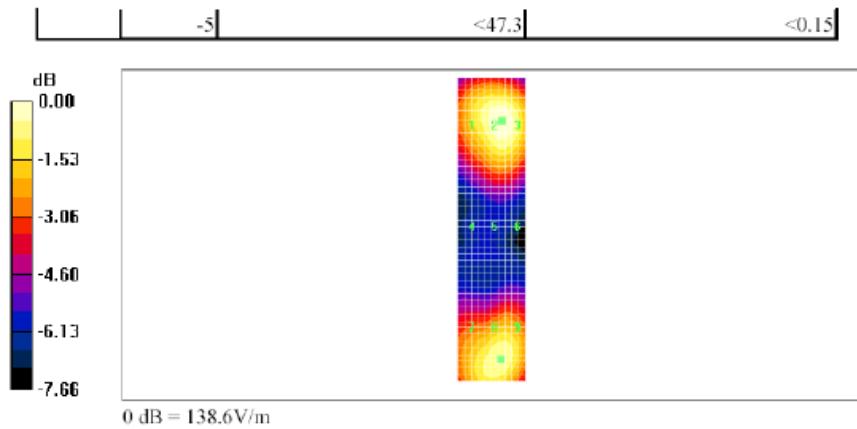
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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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
0.389	0.406	0.389	0.389	0.406	0.389
0.363	0.378	0.363	0.363	0.378	0.363

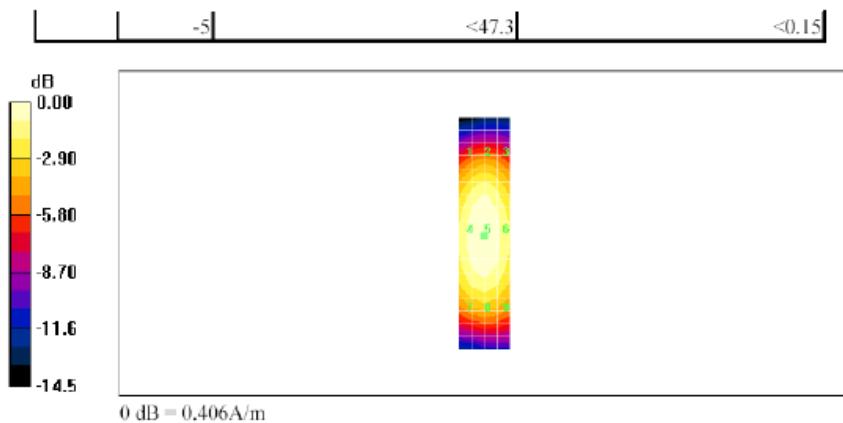
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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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
0.394	0.406	0.391	0.394	0.406	0.391
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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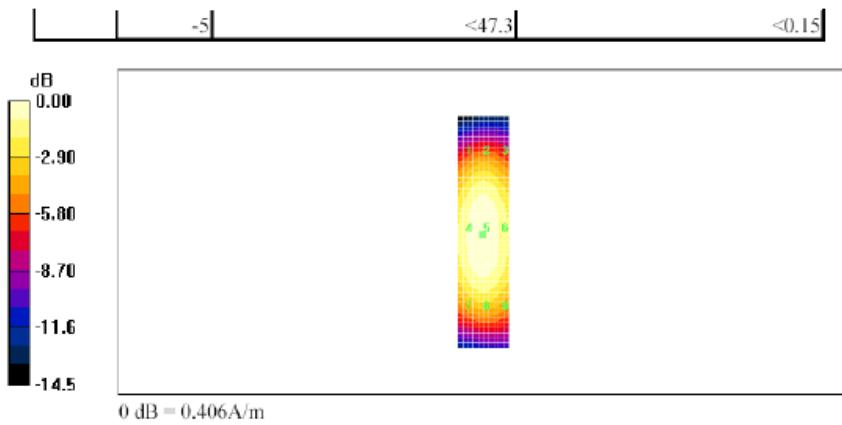
RTS-2604-1107-11

FCC ID

L6ARDS40CW

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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

Author Data

Andrew Becker

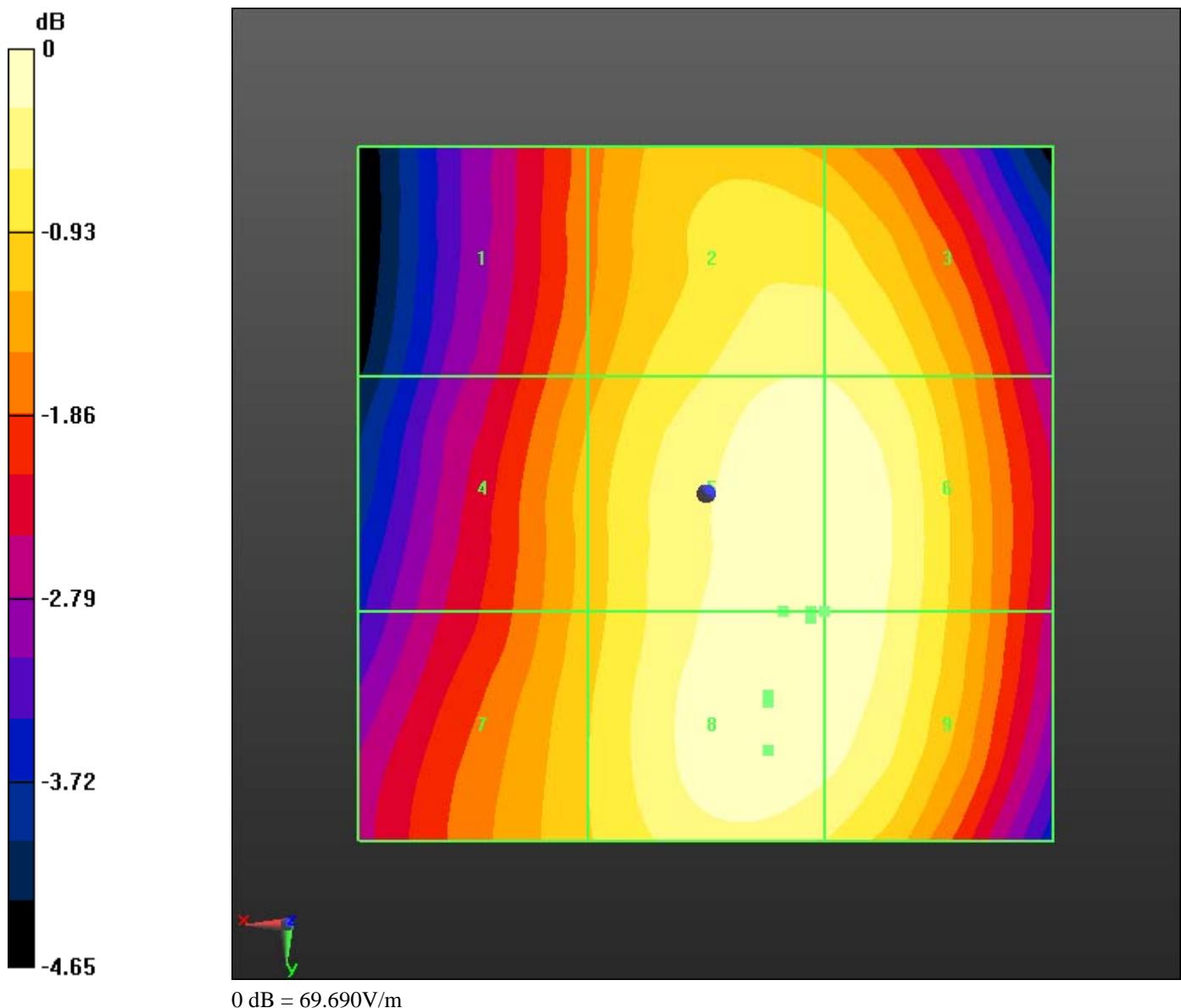
Dates of Test

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FCC ID

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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: 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_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

Author Data
Andrew Becker

Dates of Test

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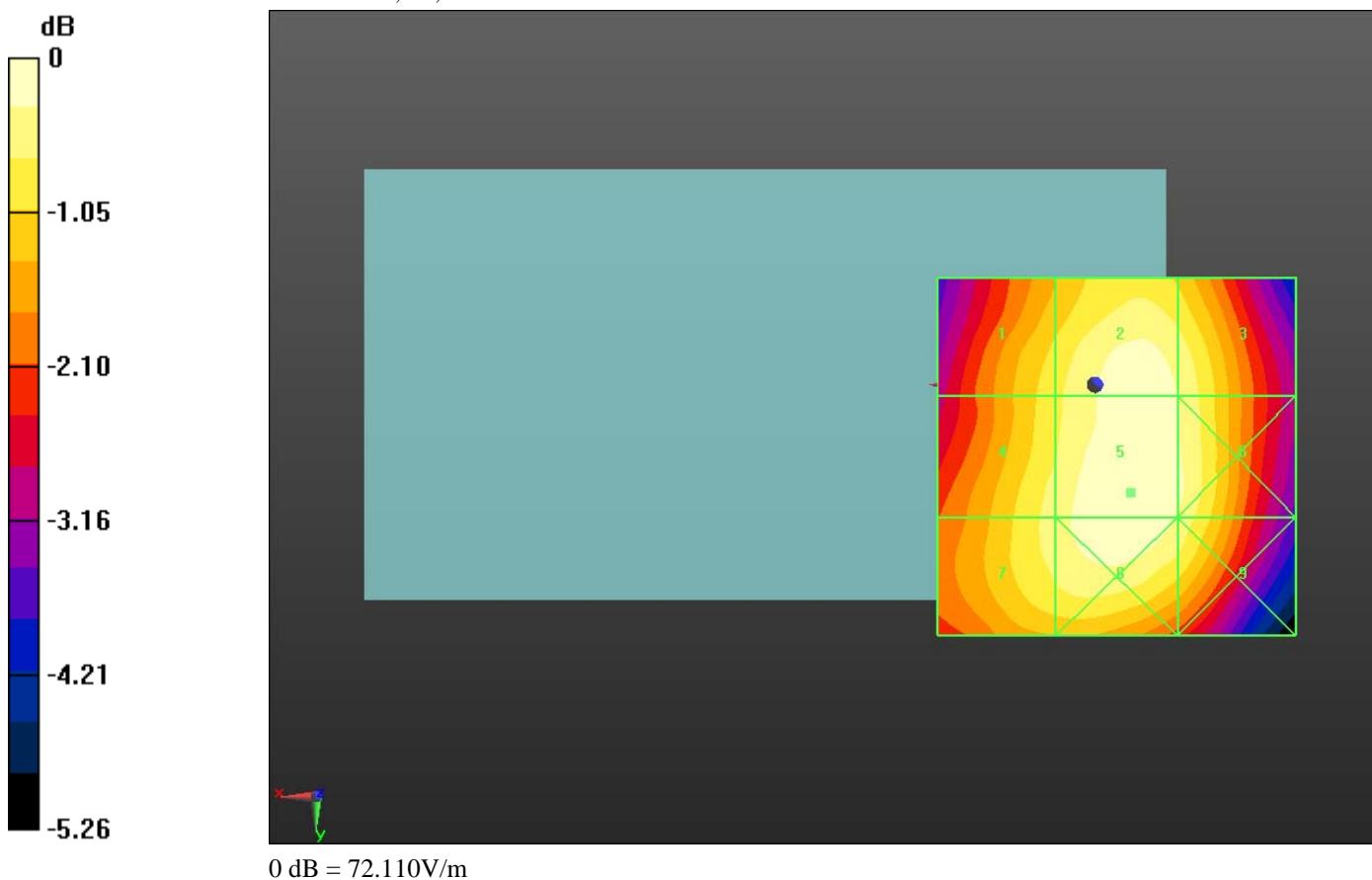
Grid 1 65.858 M4	Grid 2 70.933 M4	Grid 3 69.246 M4
Grid 4 67.959 M4	Grid 5 72.109 M4	Grid 6 70.024 M4
Grid 7 67.979 M4	Grid 8 71.898 M4	Grid 9 68.979 M4

Cursor:

Total = 72.109 V/m

E Category: M4

Location: -5, 15, 8.7 mm



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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: 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 = 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)

Author Data
Andrew Becker

Dates of Test

Mar. 22-23, June 19-22, 2011

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FCC ID

L6ARDS40CW

Peak E-field in V/m

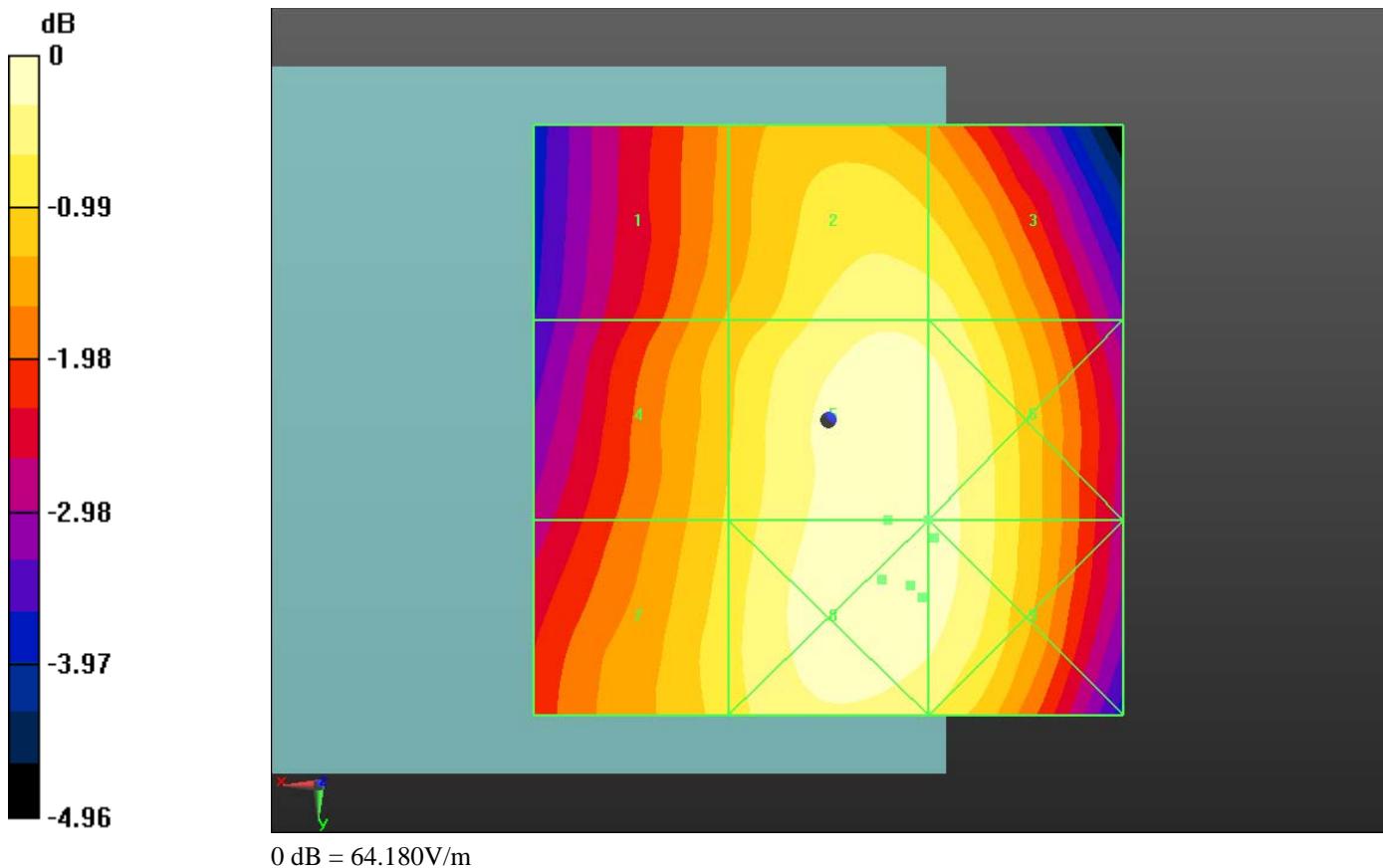
Grid 1 54.687 M4	Grid 2 64.654 M4	Grid 3 64.627 M4
Grid 4 57.183 M4	Grid 5 68.744 M4	Grid 6 68.824 M4
Grid 7 59.099 M4	Grid 8 68.888 M4	Grid 9 68.979 M4

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: 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_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

Author Data
Andrew Becker

Dates of Test

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FCC ID

L6ARDS40CW

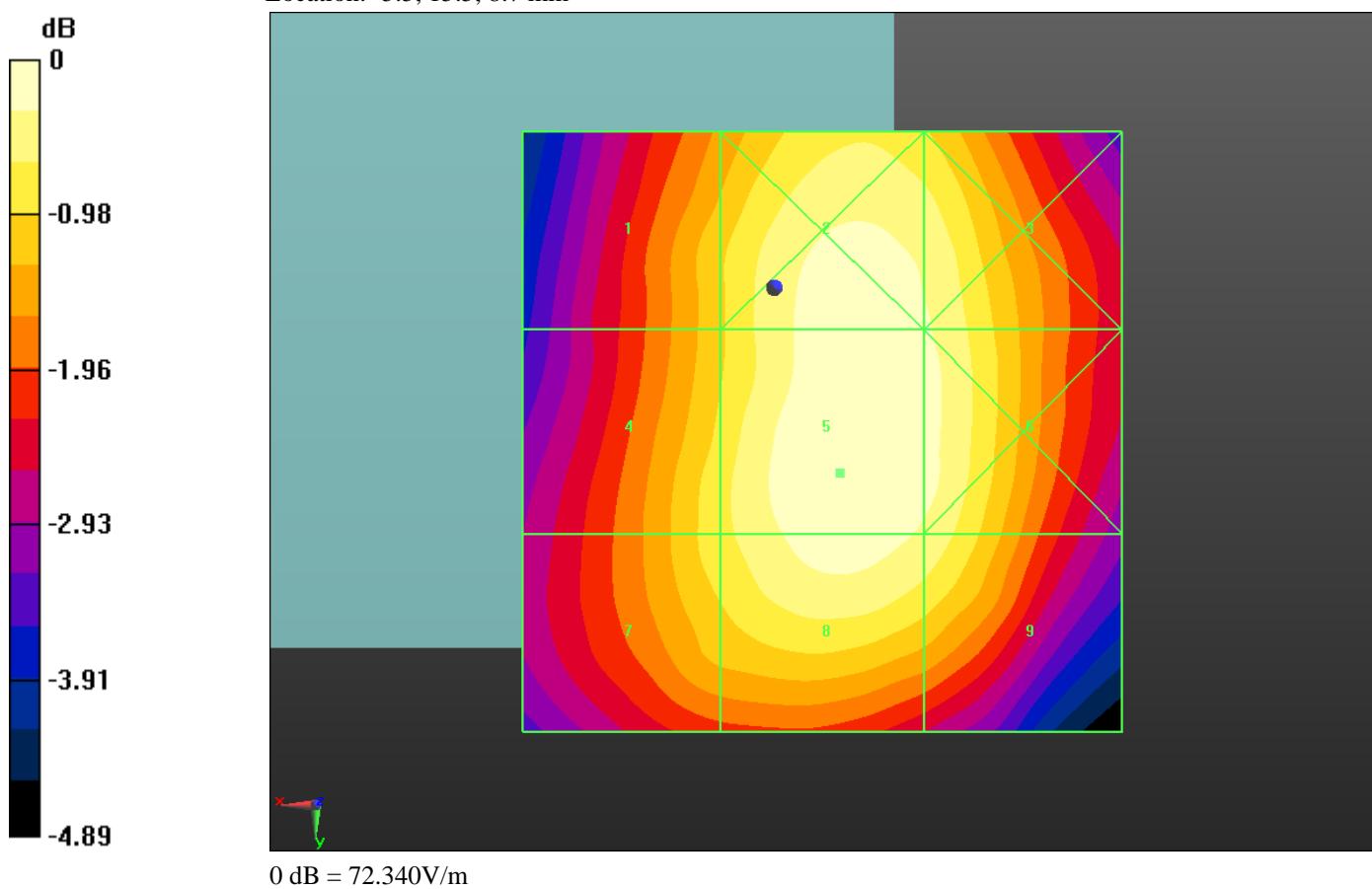
Grid 1 64.373 M4	Grid 2 71.373 M4	Grid 3 70.073 M4
Grid 4 66.357 M4	Grid 5 72.339 M4	Grid 6 70.721 M4
Grid 7 66.280 M4	Grid 8 71.288 M4	Grid 9 69.255 M4

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: 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)

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)

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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

Author Data

Andrew Becker

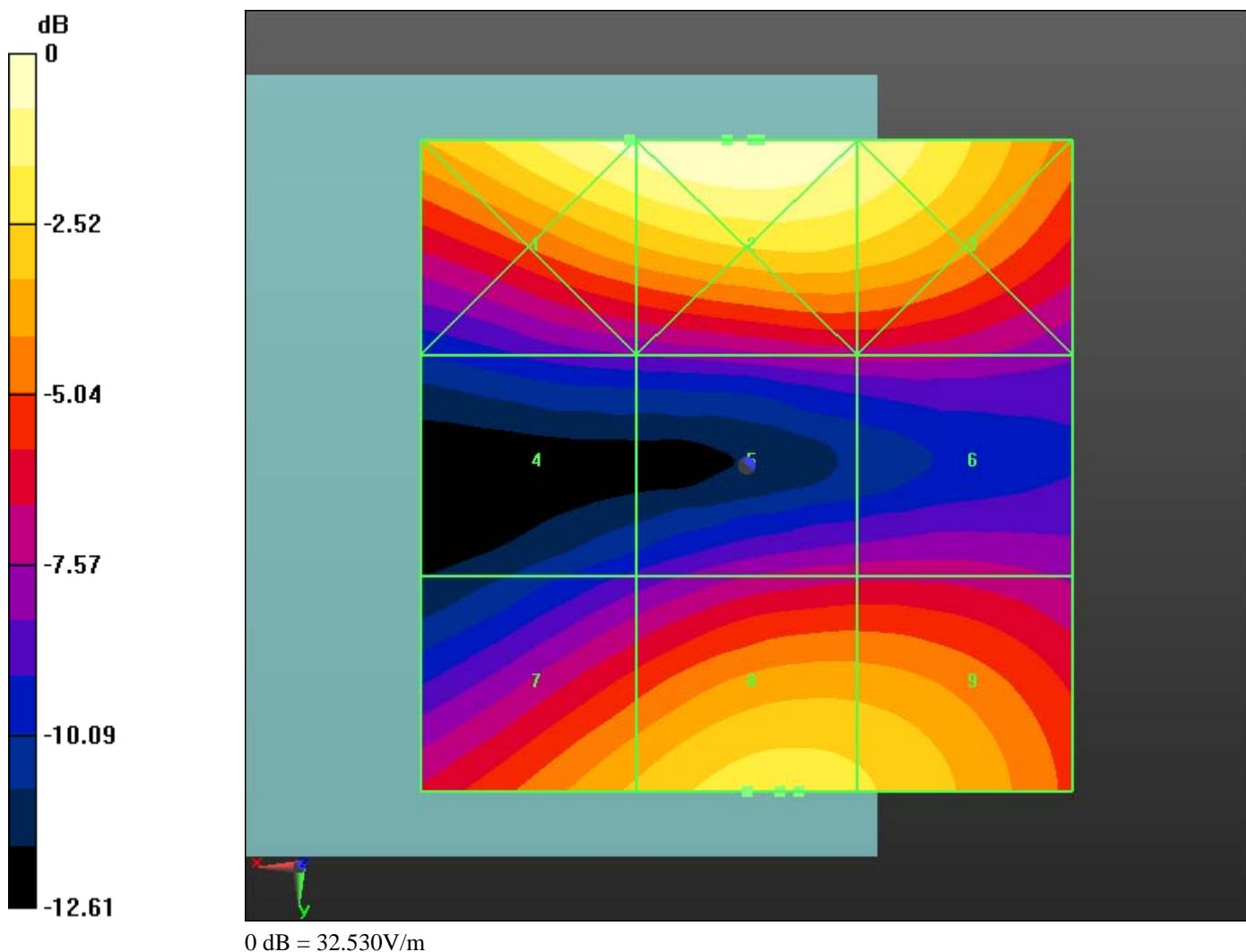
Dates of Test

Mar. 22-23, June 19-22, 2011

Report No

RTS-2604-1107-11

FCC ID

L6ARDS40CW

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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: 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)

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

Author Data
Andrew Becker

Dates of Test

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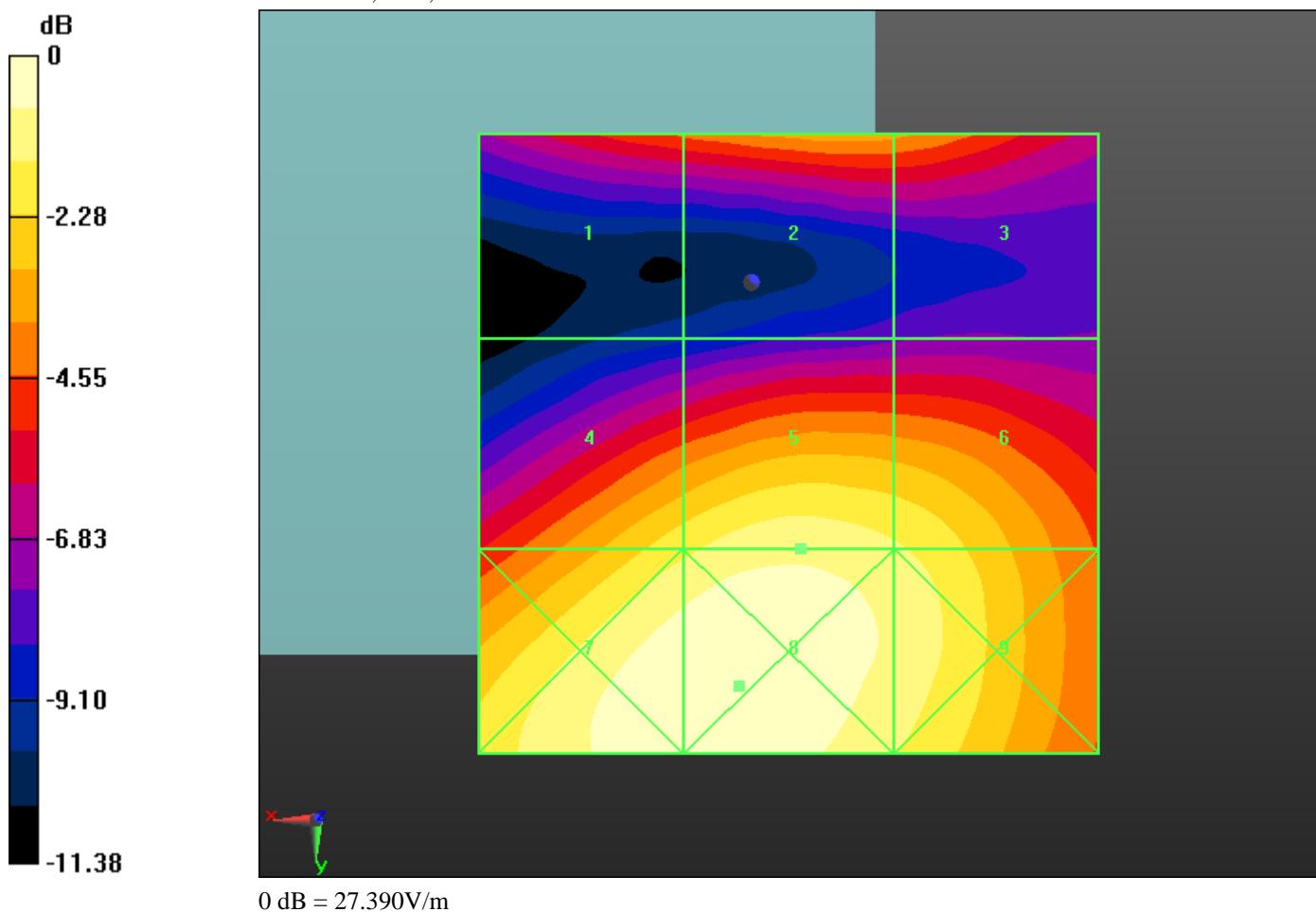
Grid 1 16.694 M4	Grid 2 18.764 M4	Grid 3 18.314 M4
Grid 4 22.486 M4	Grid 5 24.474 M4	Grid 6 23.331 M4
Grid 7 27.028 M4	Grid 8 27.385 M4	Grid 9 24.788 M4

Cursor:

Total = 27.385 V/m

E Category: M4

Location: 1, 32.5, 8.7 mm



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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

Author Data
Andrew Becker

Dates of Test

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FCC ID

L6ARDS40CW

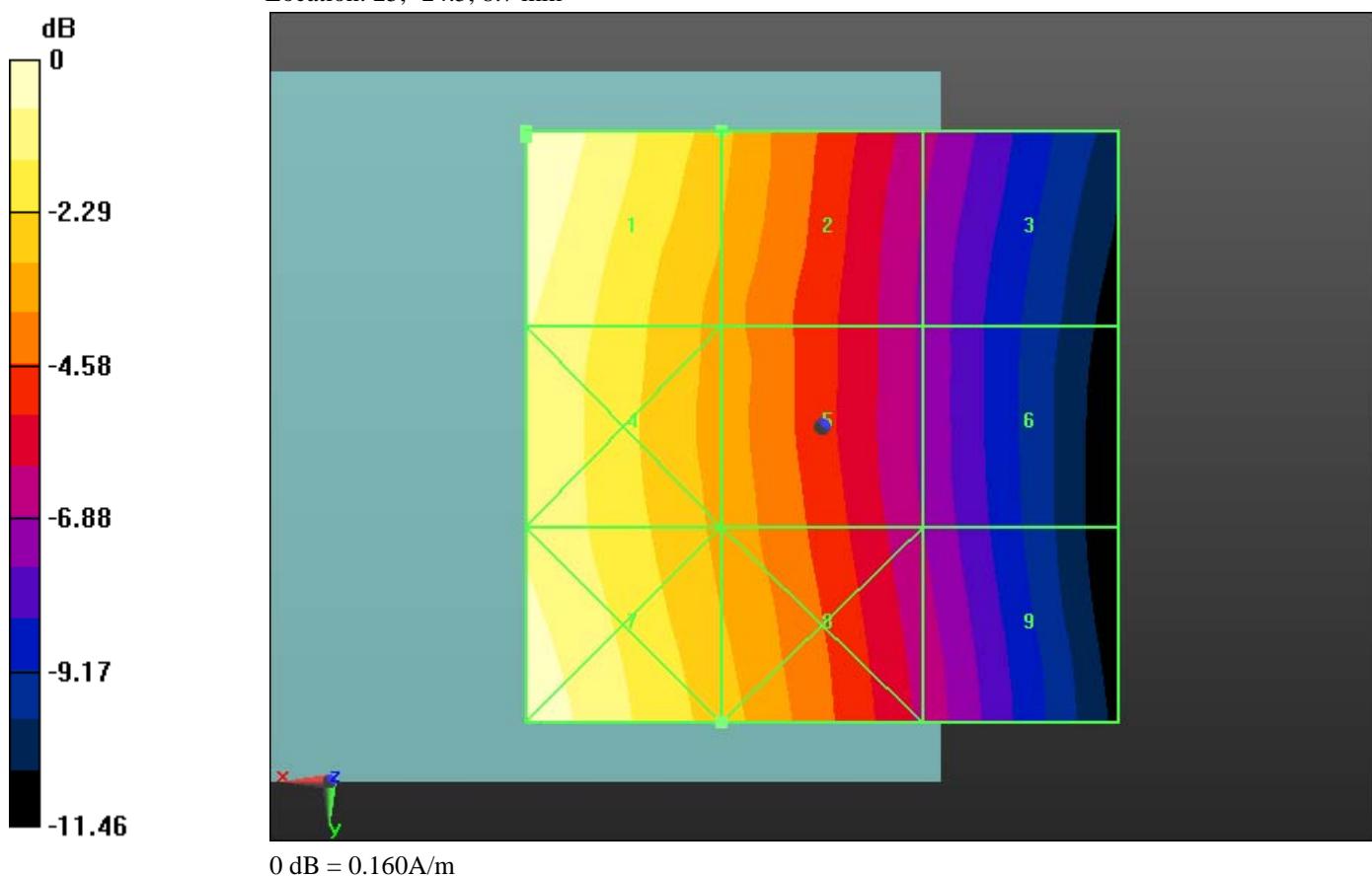
Grid 1 0.169 M4	Grid 2 0.126 M4	Grid 3 0.081 M4
Grid 4 0.157 M4	Grid 5 0.119 M4	Grid 6 0.080 M4
Grid 7 0.168 M4	Grid 8 0.128 M4	Grid 9 0.084 M4

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

Author Data
Andrew Becker

Dates of Test

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Report No

RTS-2604-1107-11

FCC ID

L6ARDS40CW

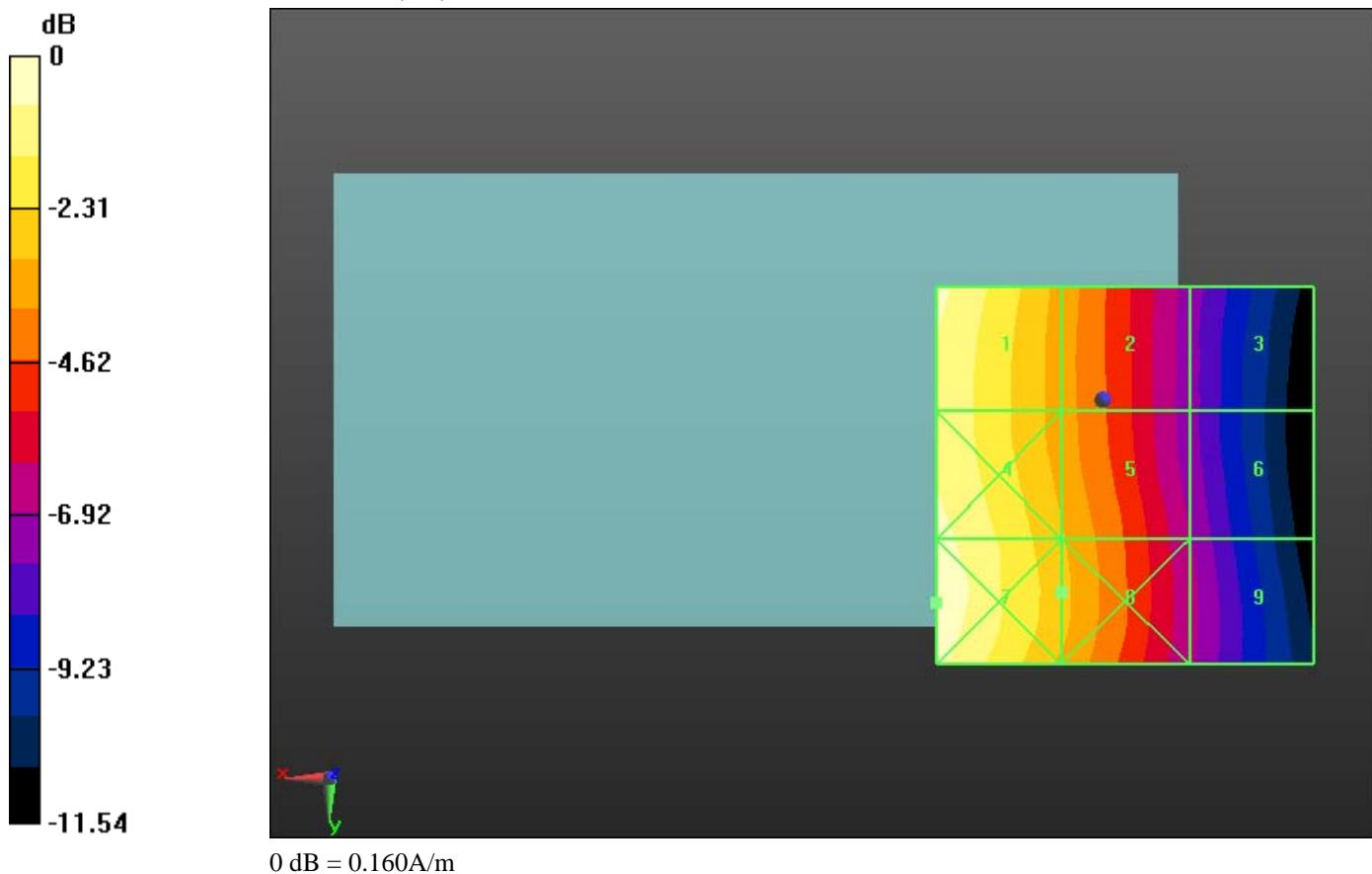
Grid 1 0.151 M4	Grid 2 0.109 M4	Grid 3 0.070 M4
Grid 4 0.151 M4	Grid 5 0.114 M4	Grid 6 0.073 M4
Grid 7 0.156 M4	Grid 8 0.116 M4	Grid 9 0.075 M4

Cursor:

Total = 0.156 A/m

H Category: M4

Location: 22, 27, 8.7 mm



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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: 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 = 0.159 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

Author Data
Andrew Becker

Dates of Test

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L6ARDS40CW

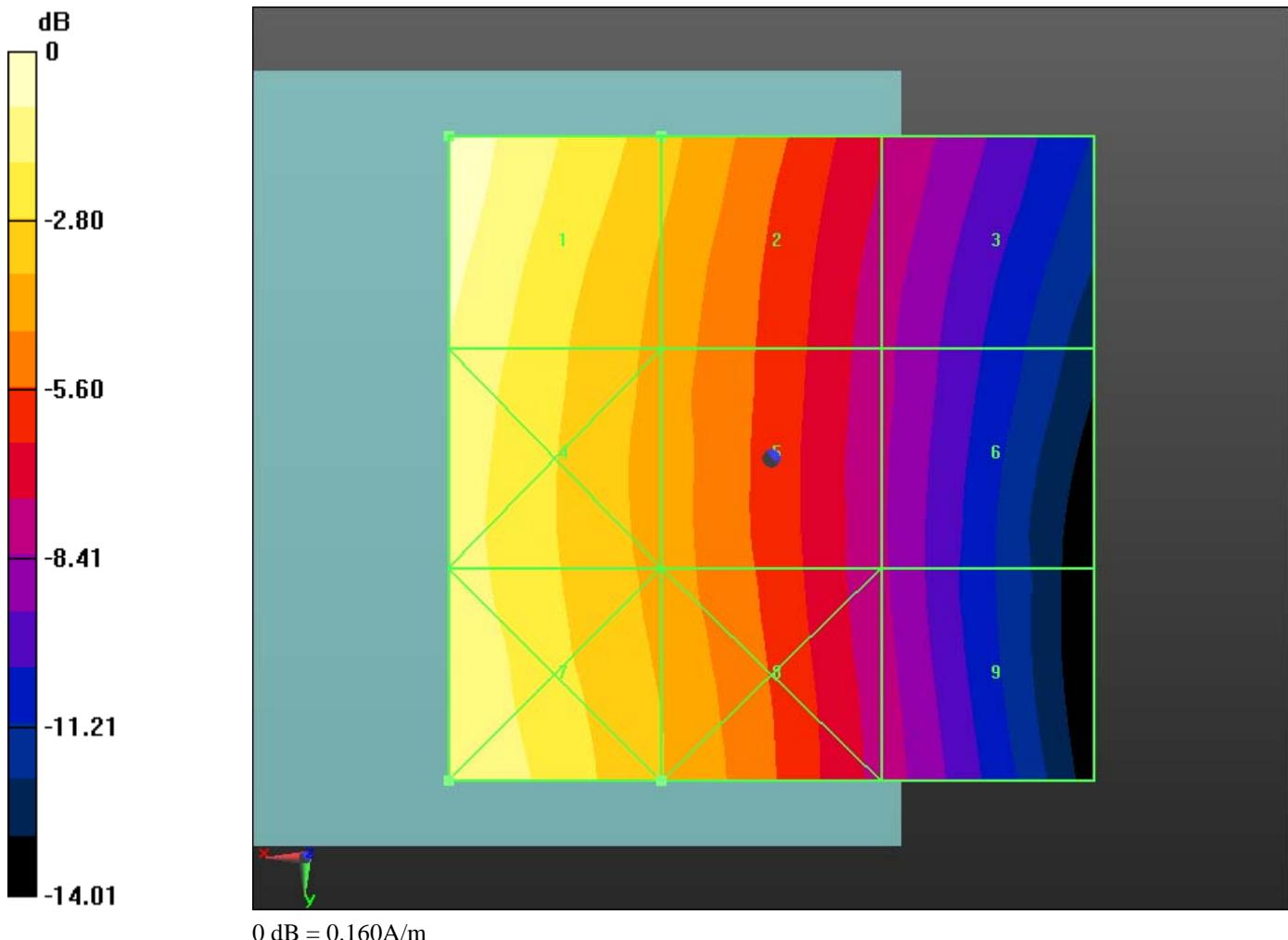
Grid 1 0.178 M4	Grid 2 0.128 M4	Grid 3 0.086 M4
Grid 4 0.172 M4	Grid 5 0.135 M4	Grid 6 0.095 M4
Grid 7 0.187 M4	Grid 8 0.149 M4	Grid 9 0.103 M4

Cursor:

Total = 0.187 A/m

H Category: M4

Location: 25, 25, 8.7 mm



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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: 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 = 0.178 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

Author Data
Andrew Becker

Dates of Test

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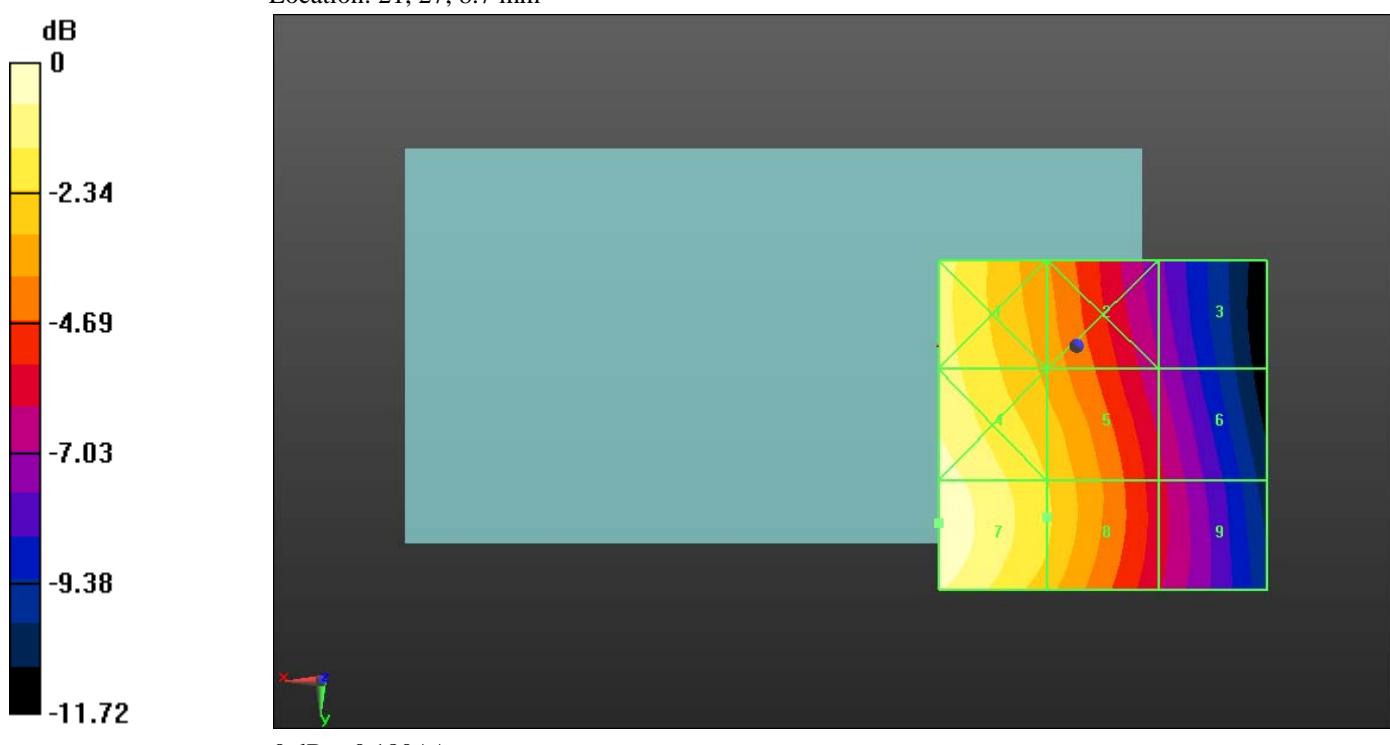
Grid 1 0.158 M4	Grid 2 0.123 M4	Grid 3 0.081 M4
Grid 4 0.173 M4	Grid 5 0.138 M4	Grid 6 0.091 M4
Grid 7 0.178 M4	Grid 8 0.140 M4	Grid 9 0.092 M4

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)

Author Data
Andrew Becker

Dates of Test

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Report No

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FCC ID

L6ARDS40CW
Peak H-field in A/m

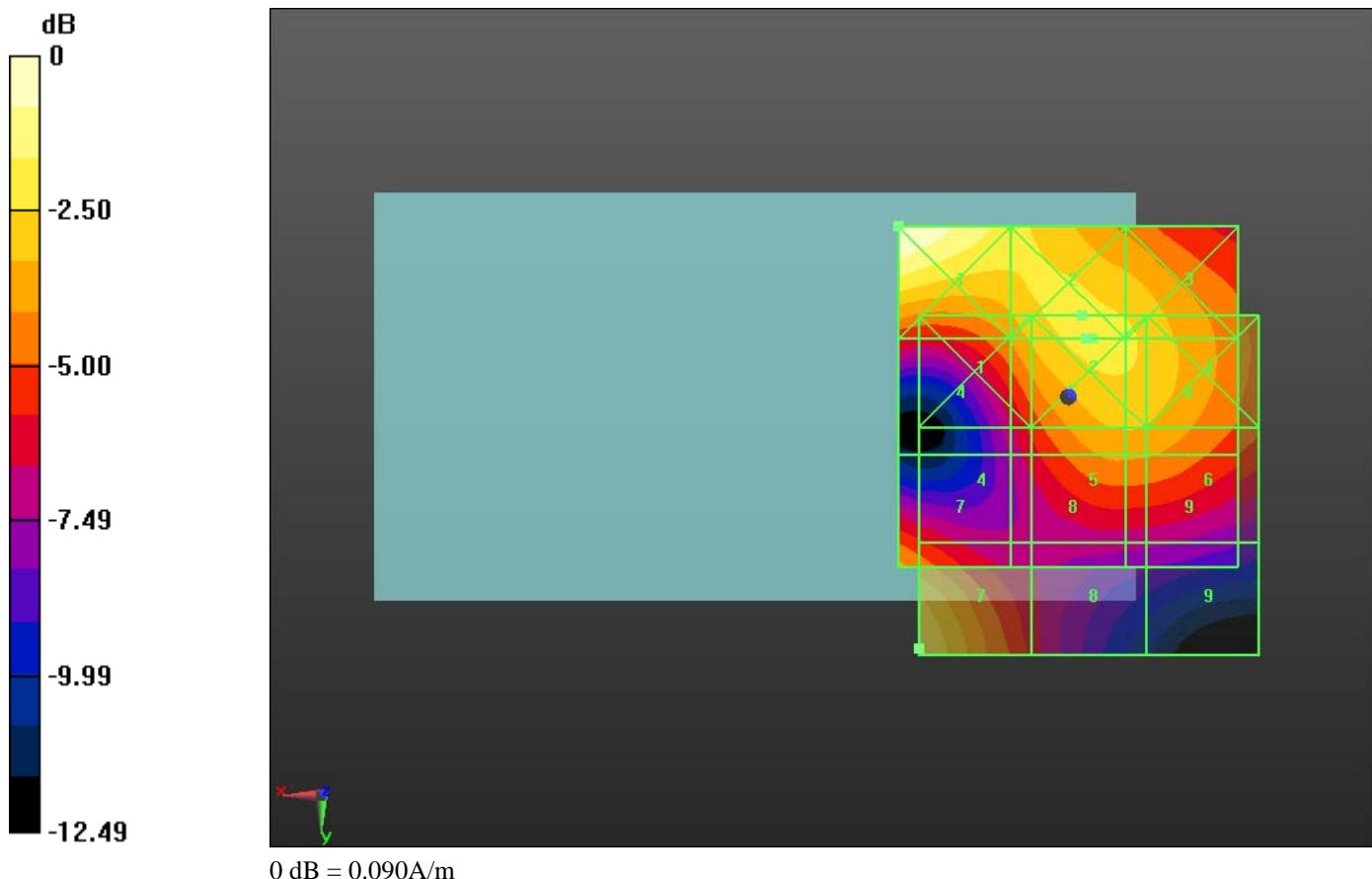
Grid 1 0.070 M4	Grid 2 0.075 M4	Grid 3 0.070 M4
Grid 4 0.051 M4	Grid 5 0.065 M4	Grid 6 0.064 M4
Grid 7 0.069 M4	Grid 8 0.045 M4	Grid 9 0.042 M4

Cursor:

Total = 0.075 A/m

H Category: M4

Location: -2, -12, 8.7 mm



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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: 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 = 0.070 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

