
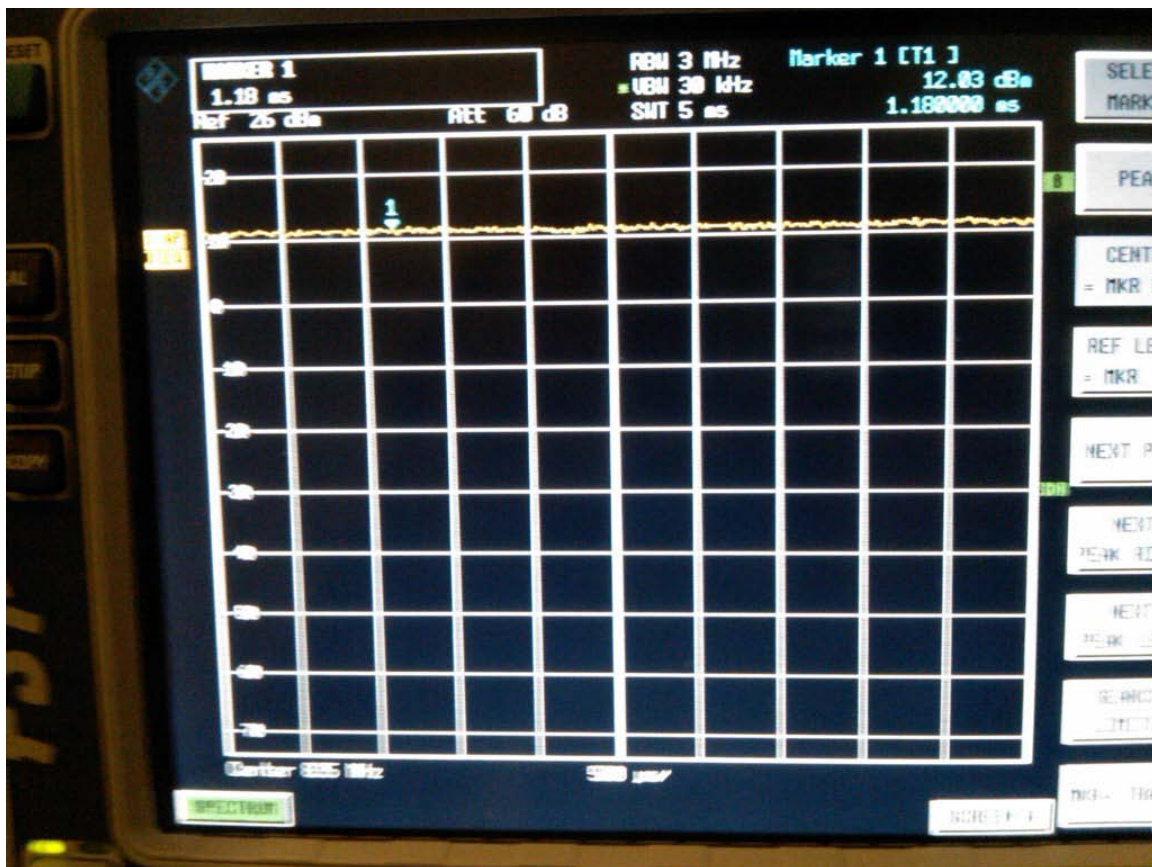
	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>1 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>


## **Annex A: Measurement data and plots**

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

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>2 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>




CDMA Cell 835 MHz

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>3 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>




CDMA Cell 835 MHz 1/8th

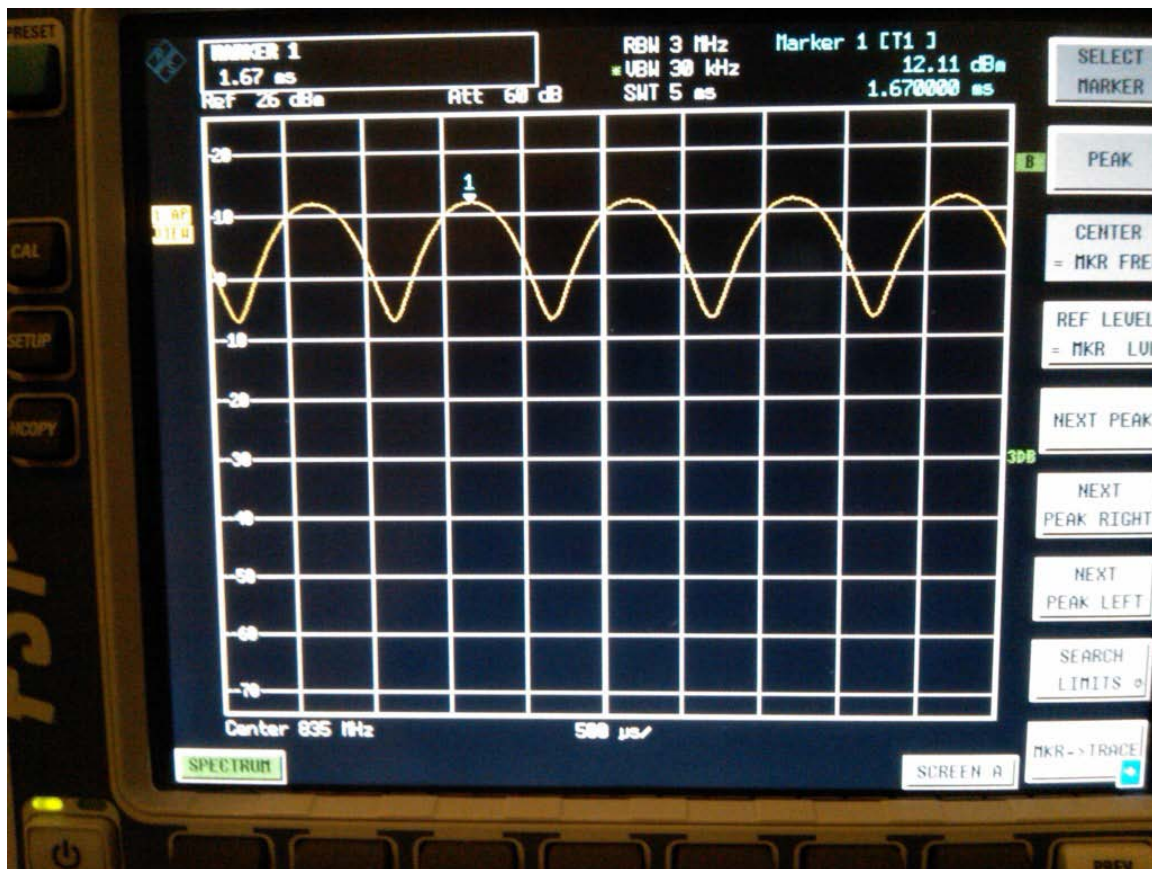
	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>4 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>




CW 835 MHz

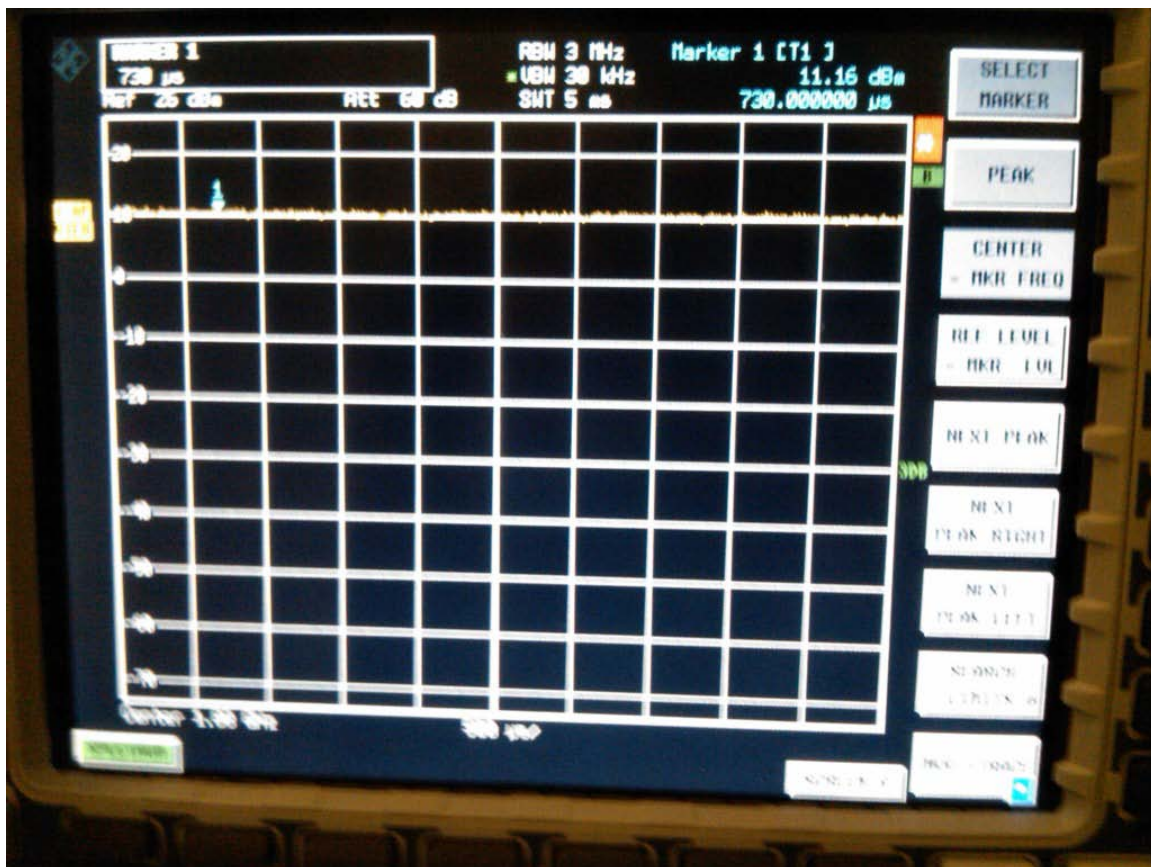


	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>5 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>




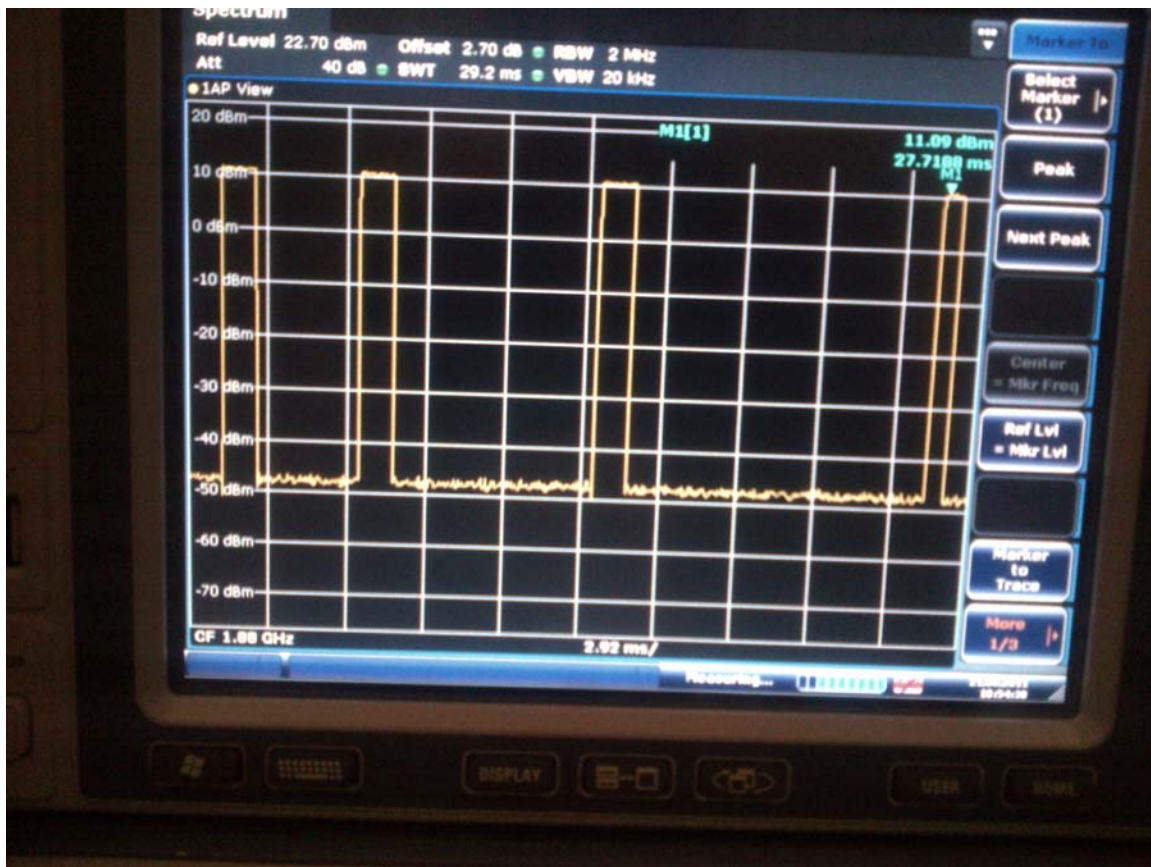
**AM 80% 835 MHz**

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>6 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>




**CDMA 1880 MHz**

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>7 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>



CDMA 1880 MHz 1/8 th




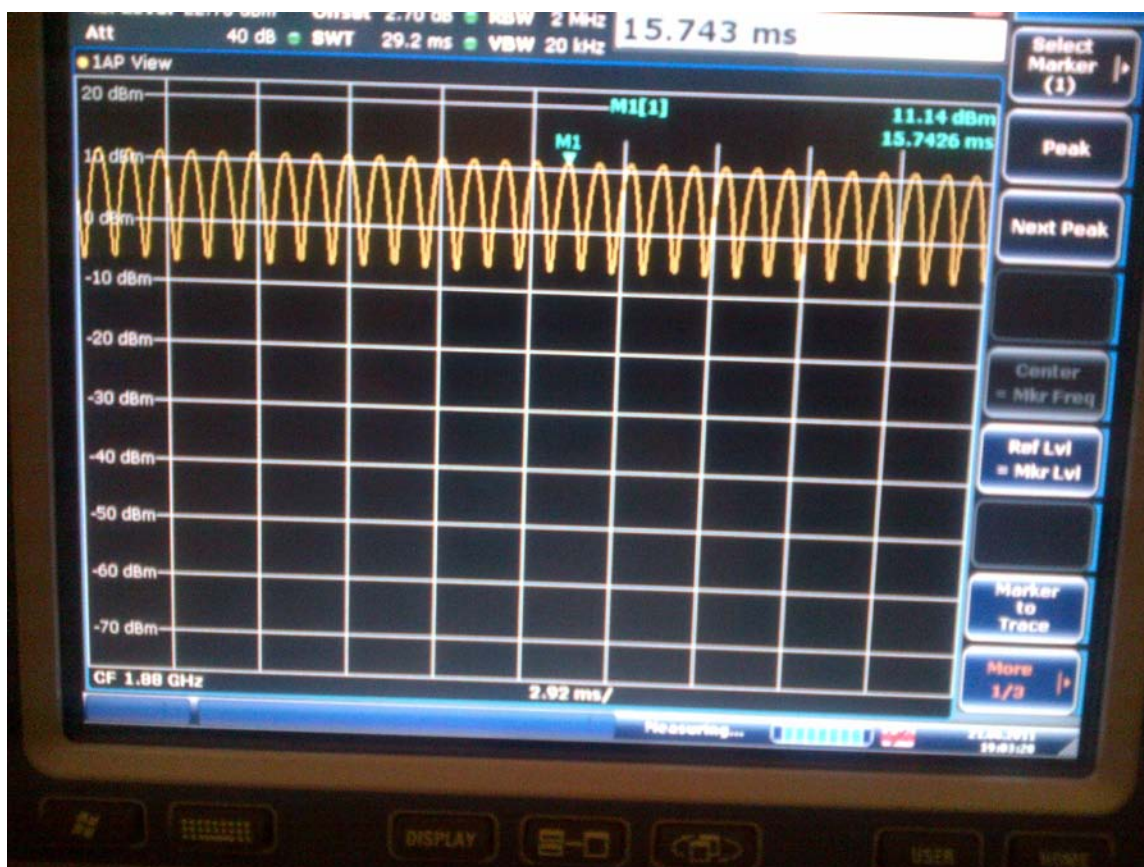
	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>8 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>




CW 1880 MHz




	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>9 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>



AM 80 % 1880 MHz

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>10 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

## A.2 Dipole validation and probe modulation factor plots

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>11 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

Date/Time: 6/21/2011 5:10:27 PM, Date/Time: 7/28/2011 2:17:53 PM

Test Laboratory: RIM Testing Services

HAC RF\_E-Field\_validation\_835 MHz\_07\_28\_11

**DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 32F66A09**

Communication System: CW; Communication System Band: D835 (835.0 MHz);

Frequency: 835 MHz; Communication System PAR: 0 dB

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

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
  - Modulation Compensation: **Not calibrated**
- 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 - 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 = 164.3 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm



	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>12 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

Reference Value = 119.3 V/m; Power Drift = 0.03 dB


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

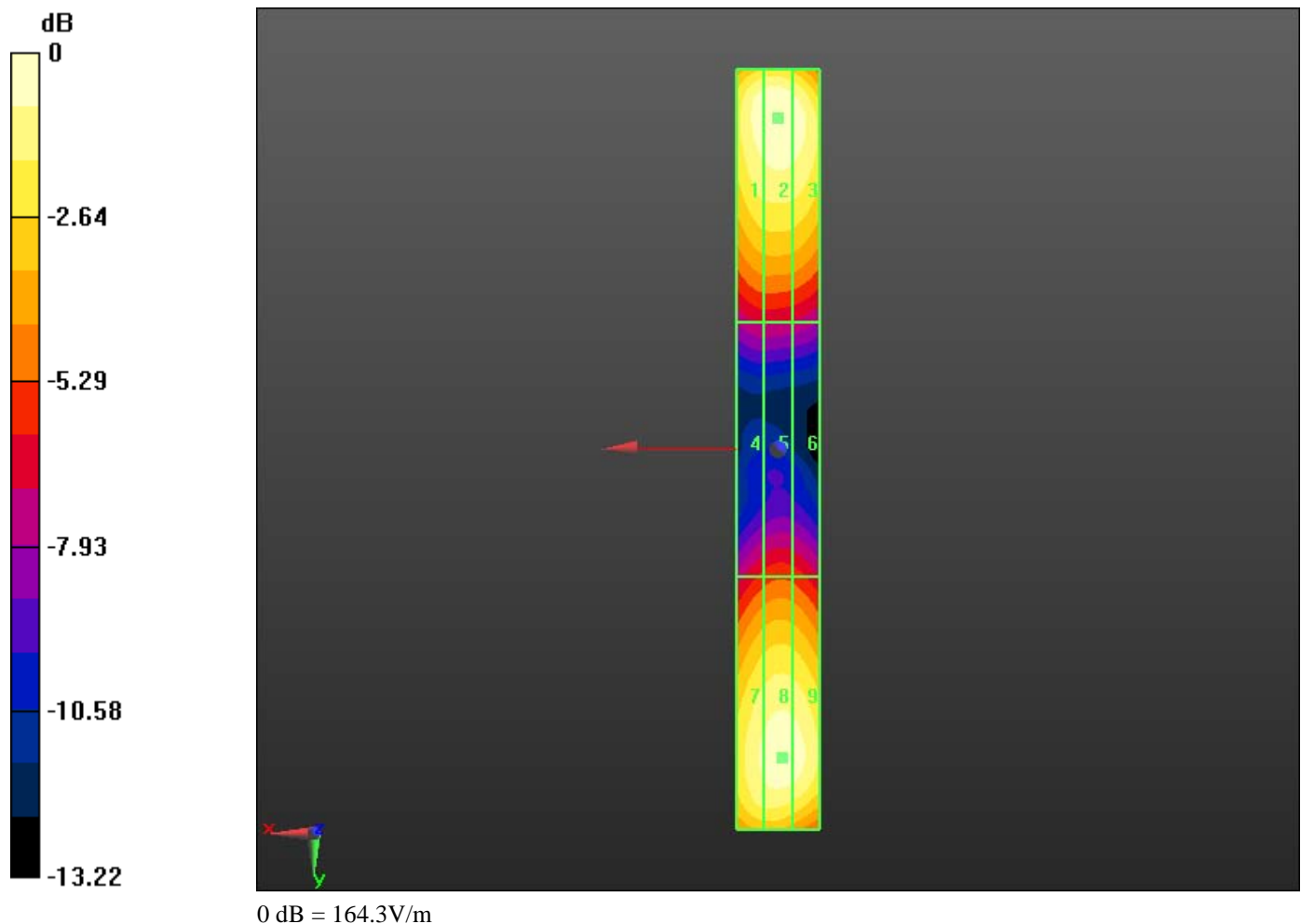
Peak E-field in V/m

Grid 1 <b>160.2</b> <b>M</b> <b>4</b>	Grid 2 <b>164.3</b> <b>M</b> <b>4</b>	Grid 3 <b>160.1</b> <b>M</b> <b>4</b>
Grid 4 <b>83.918</b> <b>M4</b>	Grid 5 <b>88.015</b> <b>M4</b>	Grid 6 <b>86.156</b> <b>M4</b>
Grid 7 <b>151.5</b> <b>M</b> <b>4</b>	Grid 8 <b>158.5</b> <b>M</b> <b>4</b>	Grid 9 <b>156.7</b> <b>M</b> <b>4</b>


**Cursor:**

Total = 164.3 V/m  
E Category: M4  
Location: 0, -78.5, 4.7 mm

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>13 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>



**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)**

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>14 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>


Peak E-field in V/m

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

**Cursor:**

Total = 60.020 V/m  
E Category: M4  
Location: 0, -79, 4.7 mm



	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>15 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

**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 <b>36.315</b> <b>M4</b>	Grid 2 <b>37.844</b> <b>M4</b>	Grid 3 <b>37.101</b> <b>M4</b>
Grid 4 <b>20.380</b> <b>M4</b>	Grid 5 <b>21.197</b> <b>M4</b>	Grid 6 <b>20.358</b> <b>M4</b>
Grid 7 <b>36.696</b> <b>M4</b>	Grid 8 <b>37.645</b> <b>M4</b>	Grid 9 <b>36.579</b> <b>M4</b>

**Cursor:**

Total = 37.844 V/m

E Category: M4

Location: -0.5, -79, 4.7 mm

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>16 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

**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 <b>21.961</b> <b>M4</b>	Grid 2 <b>22.888</b> <b>M4</b>	Grid 3 <b>21.653</b> <b>M4</b>
Grid 4 <b>11.102</b> <b>M4</b>	Grid 5 <b>11.571</b> <b>M4</b>	Grid 6 <b>11.296</b> <b>M4</b>
Grid 7 <b>22.471</b> <b>M4</b>	Grid 8 <b>23.083</b> <b>M4</b>	Grid 9 <b>21.920</b> <b>M4</b>

**Cursor:**

Total = 23.083 V/m

E Category: M4

Location: 0, 74.5, 4.7 mm

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>17 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

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/m<sup>3</sup>

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



	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>18 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

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


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

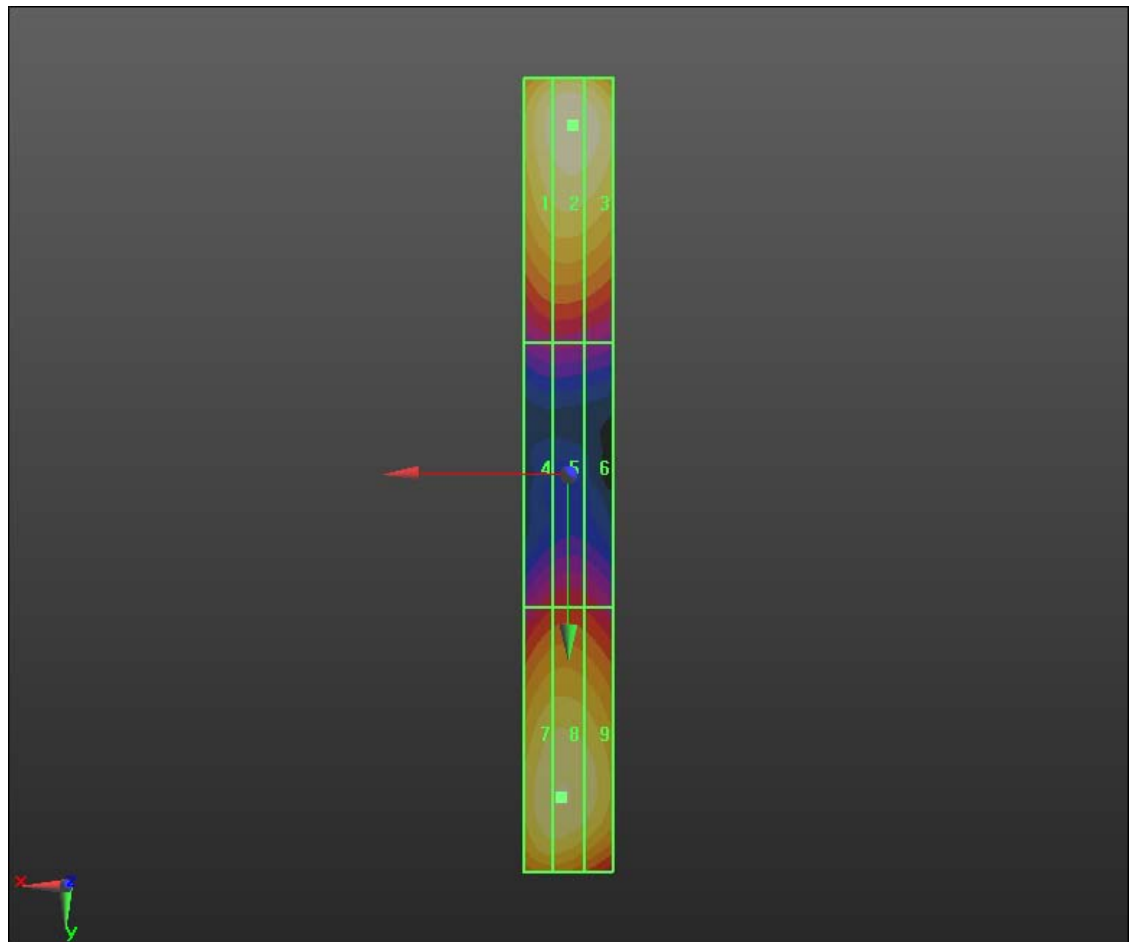
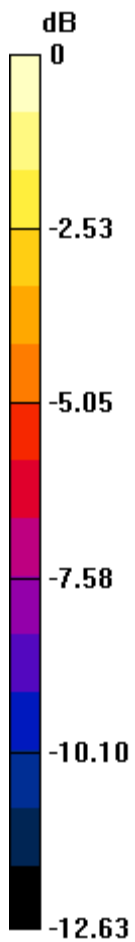
Peak E-field in V/m

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

**Cursor:**


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

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>19 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>



0 dB = 63.650V/m

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

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>20 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

Date/Time: 6/21/2011 6:28:10 PM, Date/Time: 7/28/2011 2:35:18 PM

Test Laboratory: RIM Testing Services

HAC RF\_E-Field\_validation\_1880 MHz\_07\_28\_11

**DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 32F66A09**

Communication System: CW; Communication System Band: D1900 (1900.0

MHz); Frequency: 1880 MHz; Communication System PAR: 0 dB

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

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
  - Modulation Compensation: **Not calibrated**
- 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 - 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 = 129.3 V/m


Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 121.3 V/m; Power Drift = 0.03 dB

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



	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>21 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

Peak E-field in V/m


Grid 1 <b>126.4</b> M 2	Grid 2 <b>129.3</b> M 2	Grid 3 <b>123.2</b> M 2
Grid 4 <b>82.402</b> M3	Grid 5 <b>86.640</b> M3	Grid 6 <b>85.561</b> M3
Grid 7 <b>119.3</b> M 2	Grid 8 <b>122.4</b> M 2	Grid 9 <b>120.1</b> M 2

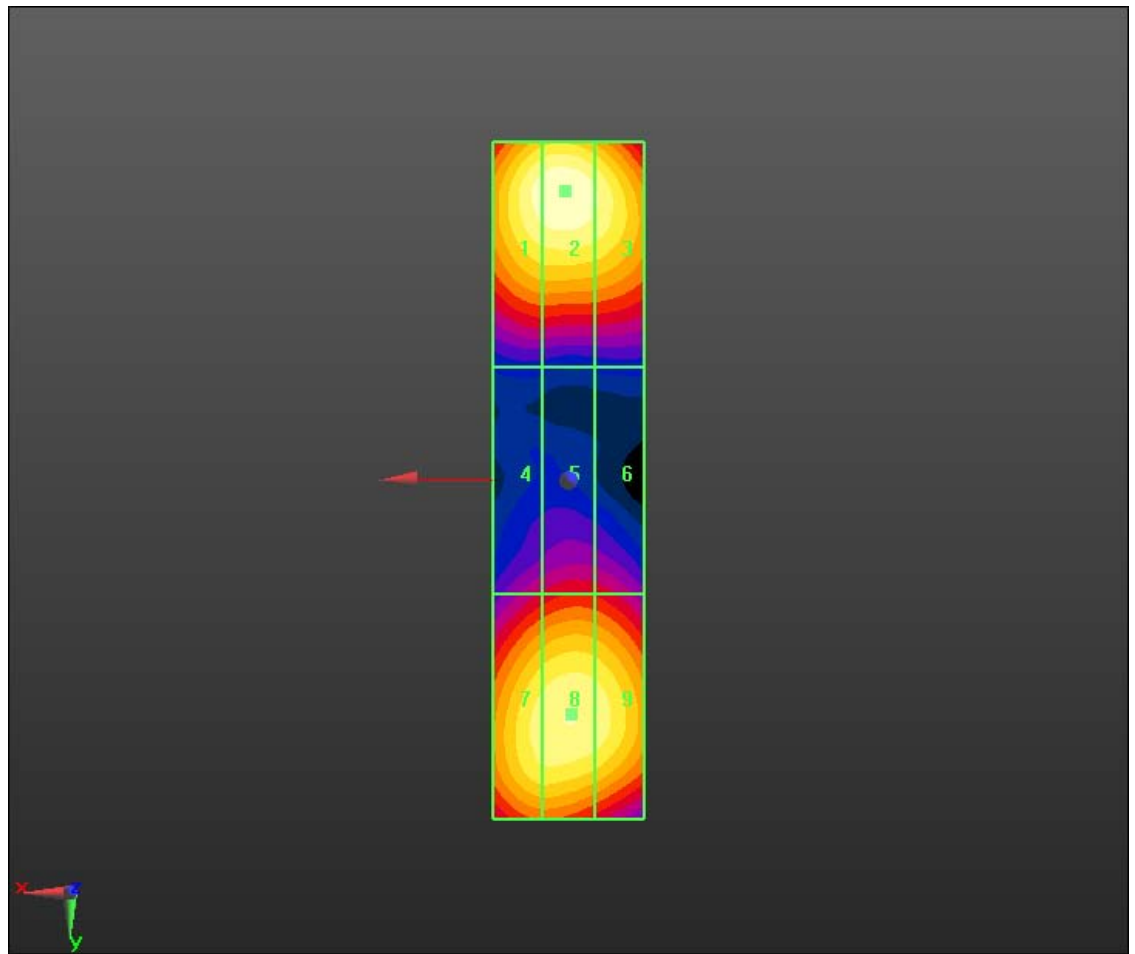
**Cursor:**

Total = 129.3 V/m


E Category: M2

Location: 0.5, -38.5, 4.7 mm

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>22 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>



0 dB = 129.3V/m

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>23 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

### 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 <b>34.758</b> <b>M4</b>	Grid 2 <b>36.285</b> <b>M4</b>	Grid 3 <b>34.848</b> <b>M4</b>
Grid 4 <b>22.360</b> <b>M4</b>	Grid 5 <b>23.679</b> <b>M4</b>	Grid 6 <b>23.521</b> <b>M4</b>
Grid 7 <b>32.897</b> <b>M4</b>	Grid 8 <b>33.681</b> <b>M4</b>	Grid 9 <b>33.221</b> <b>M4</b>

#### Cursor:

Total = 36.285 V/m

E Category: M4

Location: 0, -38.5, 4.7 mm

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>24 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

**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 <b>22.379</b> <b>M4</b>	Grid 2 <b>23.269</b> <b>M4</b>	Grid 3 <b>22.386</b> <b>M4</b>
Grid 4 <b>14.427</b> <b>M4</b>	Grid 5 <b>15.311</b> <b>M4</b>	Grid 6 <b>15.198</b> <b>M4</b>
Grid 7 <b>21.091</b> <b>M4</b>	Grid 8 <b>21.728</b> <b>M4</b>	Grid 9 <b>21.374</b> <b>M4</b>

**Cursor:**

Total = 23.269 V/m

E Category: M4

Location: 0, -38.5, 4.7 mm

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>25 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

**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 <b>12.459</b> <b>M4</b>	Grid 2 <b>14.120</b> <b>M4</b>	Grid 3 <b>14.129</b> <b>M4</b>
Grid 4 <b>8.084</b> <b>M4</b>	Grid 5 <b>8.555</b> <b>M4</b>	Grid 6 <b>8.489</b> <b>M4</b>
Grid 7 <b>13.250</b> <b>M4</b>	Grid 8 <b>13.548</b> <b>M4</b>	Grid 9 <b>12.104</b> <b>M4</b>

**Cursor:**

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



	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>26 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

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/m<sup>3</sup>

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: DASYS2, 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)**

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>27 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

Peak E-field in V/m

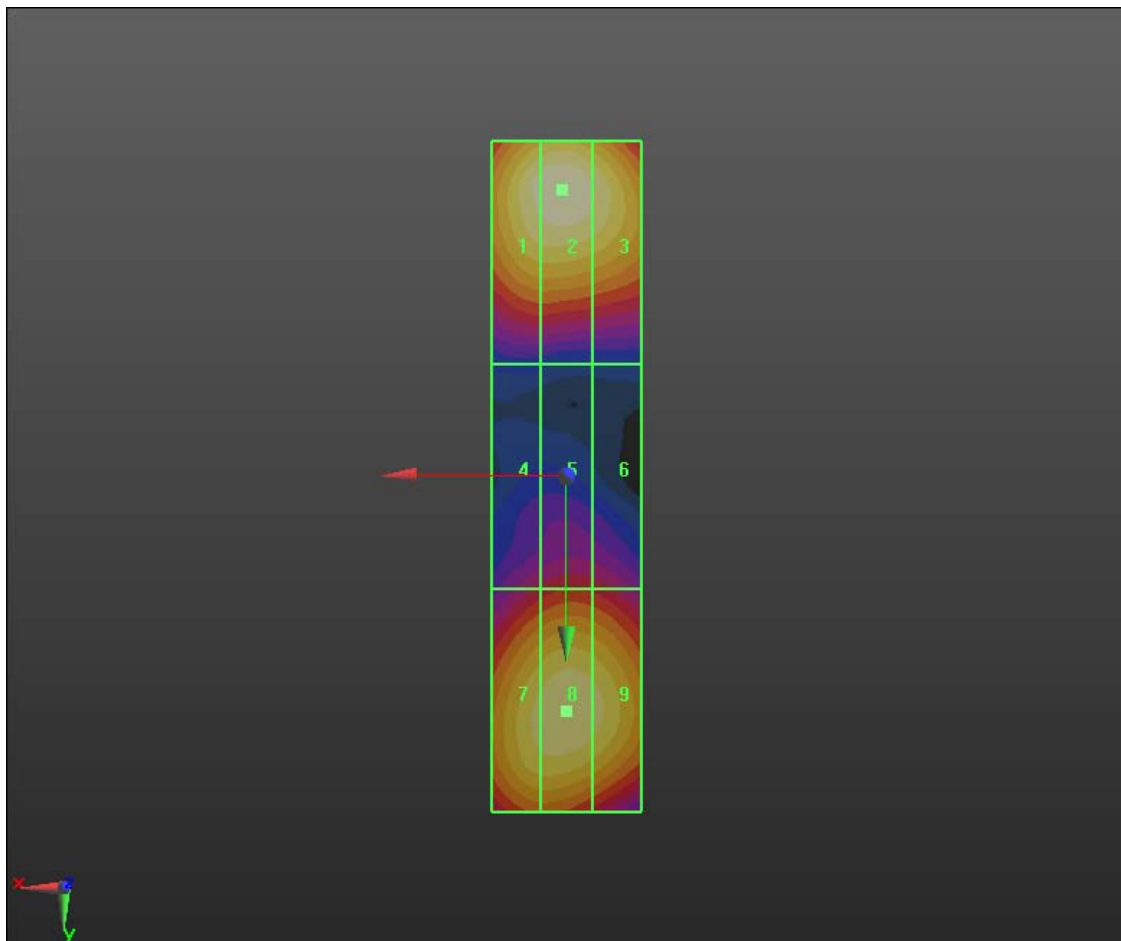
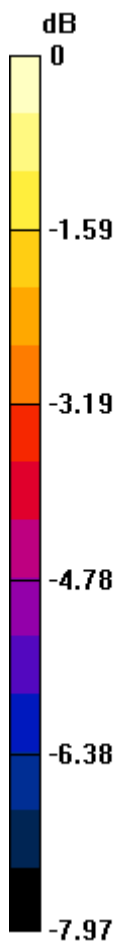
Grid 1 <b>41.912</b> <b>M4</b>	Grid 2 <b>43.150</b> <b>M4</b>	Grid 3 <b>40.971</b> <b>M4</b>
Grid 4 <b>26.905</b> <b>M4</b>	Grid 5 <b>28.223</b> <b>M4</b>	Grid 6 <b>27.711</b> <b>M4</b>
Grid 7 <b>39.111</b> <b>M4</b>	Grid 8 <b>40.205</b> <b>M4</b>	Grid 9 <b>39.292</b> <b>M4</b>

Cursor:


Total = 43.150 V/m

E Category: M4

Location: 0.5, -38.5, 4.7 mm



0 dB = 43.150V/m

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>28 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

Date/Time: 6/21/2011 9:07:05 PM, Date/Time: 7/28/2011 4:42:32 PM

Test Laboratory: RIM Testing Services

HAC RF\_H-Field\_validation\_835 MHz\_07\_28\_11

**DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 32F66A09**

Communication System: CW; Communication System Band: D835 (835.0 MHz);

Frequency: 835 MHz; Communication System PAR: 0 dB

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
  - Modulation Compensation: **Not calibrated**
- 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 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 = 0.486 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>29 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

Reference Value = 0.518 A/m; Power Drift = 0.0044 dB

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

Peak H-field in A/m


Grid 1 <b>0.444</b> M 4	Grid 2 <b>0.460</b> M 4	Grid 3 <b>0.445</b> M 4
Grid 4 <b>0.467</b> M 4	Grid 5 <b>0.486</b> M 4	Grid 6 <b>0.462</b> M 4
Grid 7 <b>0.466</b> M 4	Grid 8 <b>0.481</b> M 4	Grid 9 <b>0.448</b> M 4

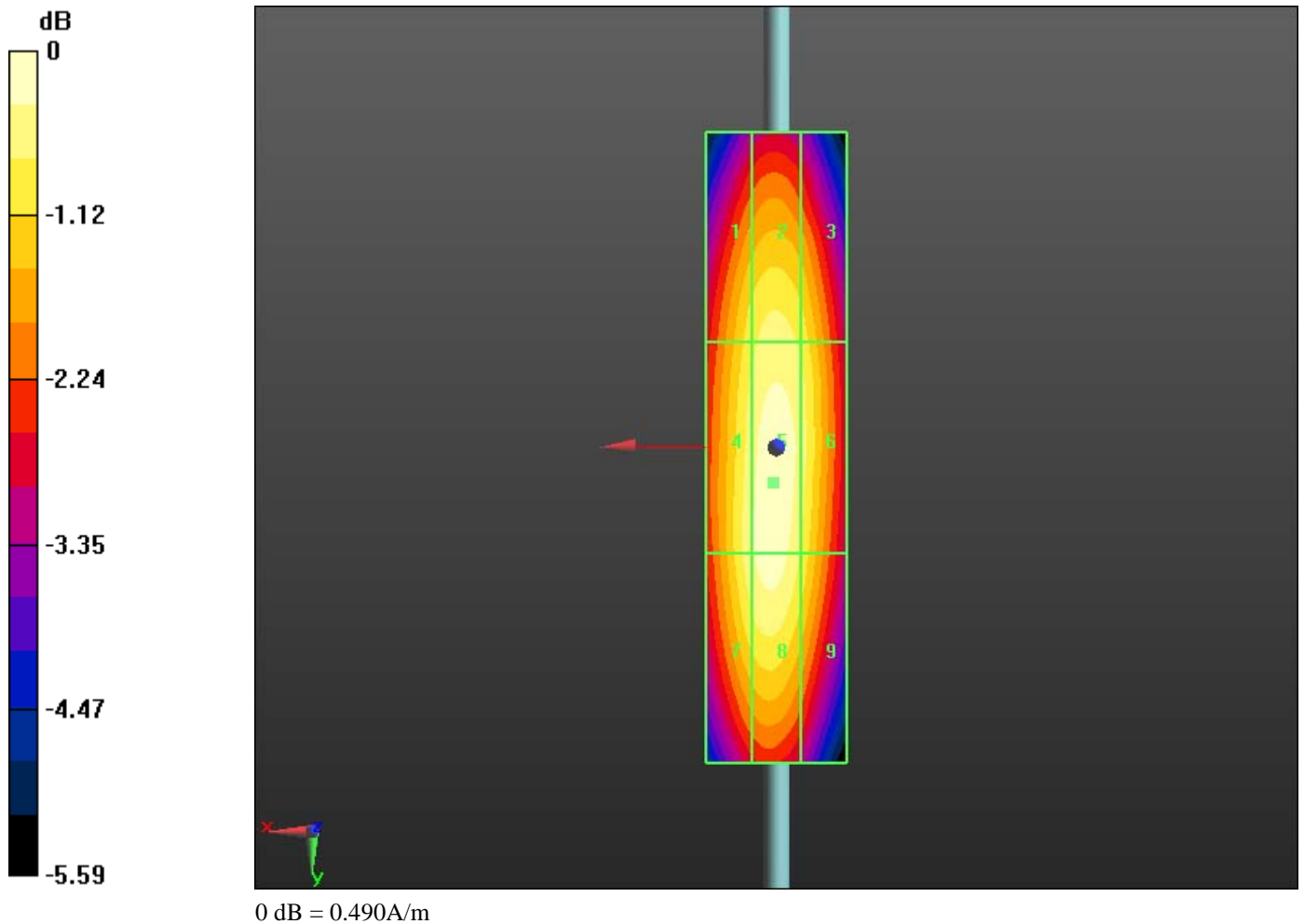
**Cursor:**

Total = 0.486 A/m


H Category: M4

Location: 0.5, 5, 4.7 mm

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>30 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>





	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>31 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

**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 <b>0.052</b> <b>M4</b>	Grid 2 <b>0.055</b> <b>M4</b>	Grid 3 <b>0.052</b> <b>M4</b>
Grid 4 <b>0.060</b> <b>M4</b>	Grid 5 <b>0.064</b> <b>M4</b>	Grid 6 <b>0.060</b> <b>M4</b>
Grid 7 <b>0.055</b> <b>M4</b>	Grid 8 <b>0.056</b> <b>M4</b>	Grid 9 <b>0.052</b> <b>M4</b>

**Cursor:**

Total = 0.064 A/m

H Category: M4

Location: 0, 1, 4.7 mm

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>32 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

**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 <b>0.145</b> <b>M4</b>	Grid 2 <b>0.151</b> <b>M4</b>	Grid 3 <b>0.144</b> <b>M4</b>
Grid 4 <b>0.169</b> <b>M4</b>	Grid 5 <b>0.177</b> <b>M4</b>	Grid 6 <b>0.167</b> <b>M4</b>
Grid 7 <b>0.154</b> <b>M4</b>	Grid 8 <b>0.159</b> <b>M4</b>	Grid 9 <b>0.146</b> <b>M4</b>

**Cursor:**

Total = 0.177 A/m

H Category: M4

Location: 0, 6, 4.7 mm

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>33 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

**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 <b>0.093</b> <b>M4</b>	Grid 2 <b>0.097</b> <b>M4</b>	Grid 3 <b>0.092</b> <b>M4</b>
Grid 4 <b>0.109</b> <b>M4</b>	Grid 5 <b>0.114</b> <b>M4</b>	Grid 6 <b>0.108</b> <b>M4</b>
Grid 7 <b>0.100</b> <b>M4</b>	Grid 8 <b>0.103</b> <b>M4</b>	Grid 9 <b>0.095</b> <b>M4</b>

**Cursor:**

Total = 0.114 A/m

H Category: M4

Location: 0, 7, 4.7 mm

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>34 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

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/m<sup>3</sup>

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

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>35 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

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 <b>0.168</b> <b>M4</b>	Grid 2 <b>0.176</b> <b>M4</b>	Grid 3 <b>0.169</b> <b>M4</b>
Grid 4 <b>0.173</b> <b>M4</b>	Grid 5 <b>0.183</b> <b>M4</b>	Grid 6 <b>0.175</b> <b>M4</b>
Grid 7 <b>0.171</b> <b>M4</b>	Grid 8 <b>0.180</b> <b>M4</b>	Grid 9 <b>0.169</b> <b>M4</b>


**Cursor:**

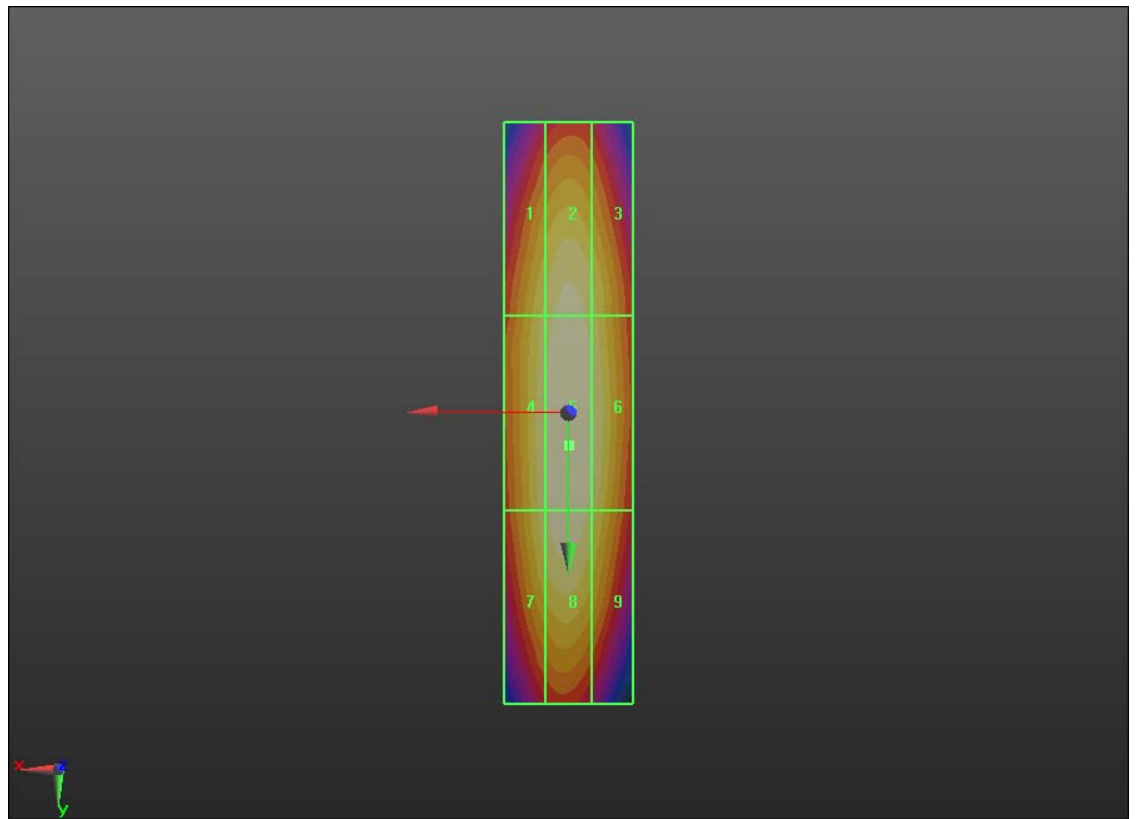
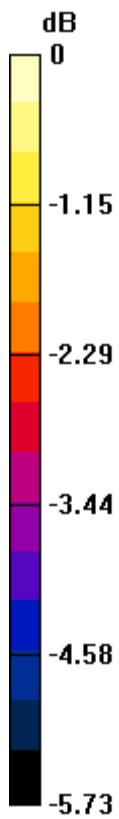
Total = 0.183 A/m

H Category: M4


Location: 0, 5, 4.7 mm



	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>36 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>



0 dB = 0.180A/m

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>37 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

Date/Time: 6/21/2011 7:37:59 PM, Date/Time: 7/28/2011 4:53:10 PM

Test Laboratory: RIM Testing Services

HAC RF\_H-Field\_validation\_1880 MHz\_07\_28\_11

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: **32F66A09**

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

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
  - Modulation Compensation: **Not calibrated**
- 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 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 = 0.461 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>38 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

Reference Value = 0.489 A/m; Power Drift = 0.04 dB

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

Peak H-field in A/m

Grid 1 <b>0.425</b> M 2	Grid 2 <b>0.442</b> M 2	Grid 3 <b>0.425</b> M 2
Grid 4 <b>0.441</b> M 2	Grid 5 <b>0.461</b> M 2	Grid 6 <b>0.440</b> M 2
Grid 7 <b>0.432</b> M 2	Grid 8 <b>0.453</b> M 2	Grid 9 <b>0.428</b> M 2

**Cursor:**

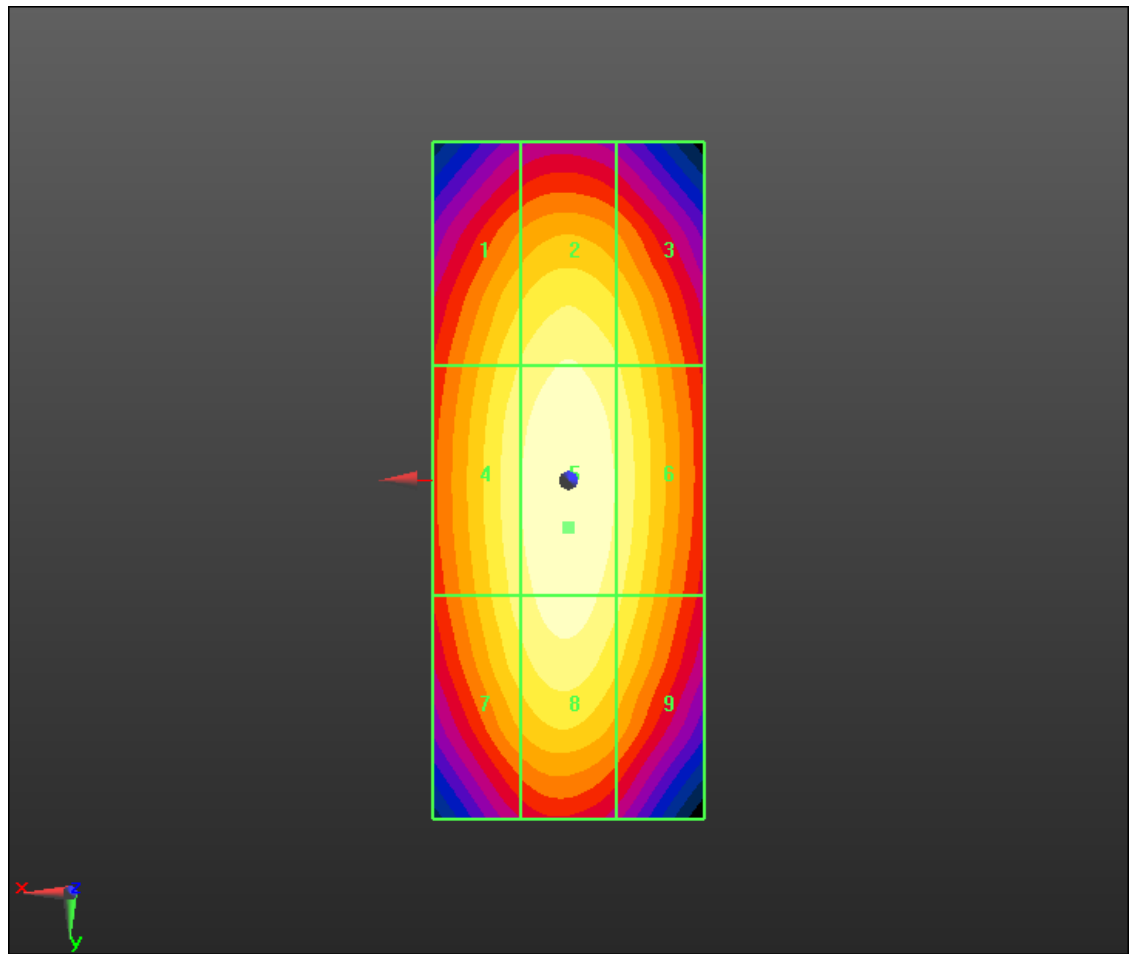
Total = 0.461 A/m  
H Category: M2  
Location: 0, 3.5, 4.7 mm

Author Data  
**Hang Wang**


Dates of Test  
**July 28, Aug 4, 2011**

Report No  
**RTS-2604-1108-06**

FCC ID  
**L6ARDZ20CW**



0 dB = 0.460A/m

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>40 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

**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 <b>0.109</b> <b>M4</b>	Grid 2 <b>0.113</b> <b>M4</b>	Grid 3 <b>0.108</b> <b>M4</b>
Grid 4 <b>0.121</b> <b>M4</b>	Grid 5 <b>0.126</b> <b>M4</b>	Grid 6 <b>0.120</b> <b>M4</b>
Grid 7 <b>0.110</b> <b>M4</b>	Grid 8 <b>0.116</b> <b>M4</b>	Grid 9 <b>0.109</b> <b>M4</b>


**Cursor:**

Total = 0.126 A/m

H Category: M4

Location: 0, 2.5, 4.7 mm



	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>41 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

**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 <b>0.070</b> <b>M4</b>	Grid 2 <b>0.073</b> <b>M4</b>	Grid 3 <b>0.070</b> <b>M4</b>
Grid 4 <b>0.077</b> <b>M4</b>	Grid 5 <b>0.081</b> <b>M4</b>	Grid 6 <b>0.077</b> <b>M4</b>
Grid 7 <b>0.070</b> <b>M4</b>	Grid 8 <b>0.074</b> <b>M4</b>	Grid 9 <b>0.069</b> <b>M4</b>

**Cursor:**

Total = 0.081 A/m

H Category: M4

Location: 0, 3, 4.7 mm

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>42 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

**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 <b>0.040</b> <b>M4</b>	Grid 2 <b>0.041</b> <b>M4</b>	Grid 3 <b>0.038</b> <b>M4</b>
Grid 4 <b>0.047</b> <b>M4</b>	Grid 5 <b>0.051</b> <b>M4</b>	Grid 6 <b>0.048</b> <b>M4</b>
Grid 7 <b>0.040</b> <b>M4</b>	Grid 8 <b>0.042</b> <b>M4</b>	Grid 9 <b>0.040</b> <b>M4</b>

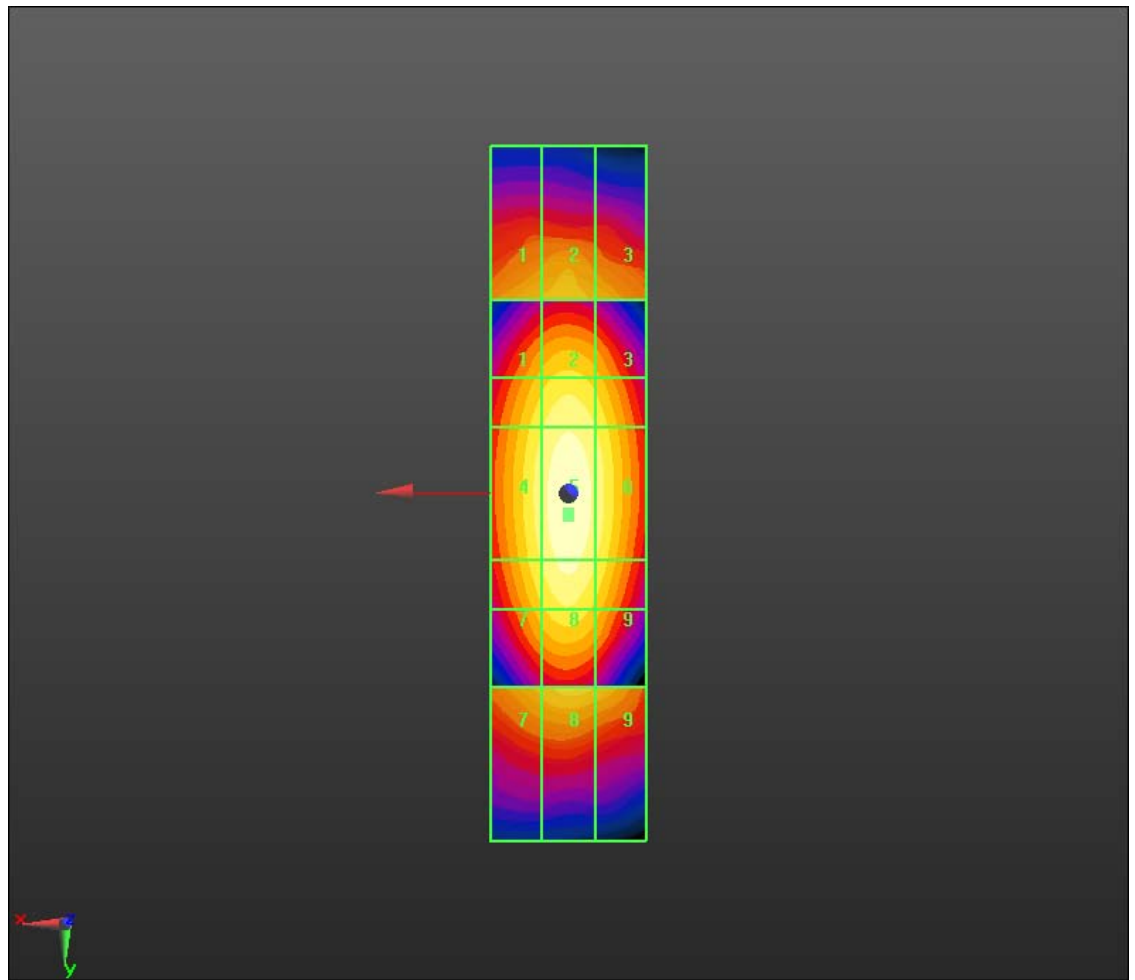
**Cursor:**

Total = 0.051 A/m


H Category: M4

Location: 0, 0, 4.7 mm

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>43 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>



0 dB = 0.470A/m

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>44 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

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/m<sup>3</sup>

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

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>45 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

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 <b>0.143</b> <b>M4</b>	Grid 2 <b>0.150</b> <b>M4</b>	Grid 3 <b>0.145</b> <b>M4</b>
Grid 4 <b>0.147</b> <b>M4</b>	Grid 5 <b>0.154</b> <b>M4</b>	Grid 6 <b>0.149</b> <b>M4</b>
Grid 7 <b>0.144</b> <b>M4</b>	Grid 8 <b>0.152</b> <b>M4</b>	Grid 9 <b>0.145</b> <b>M4</b>

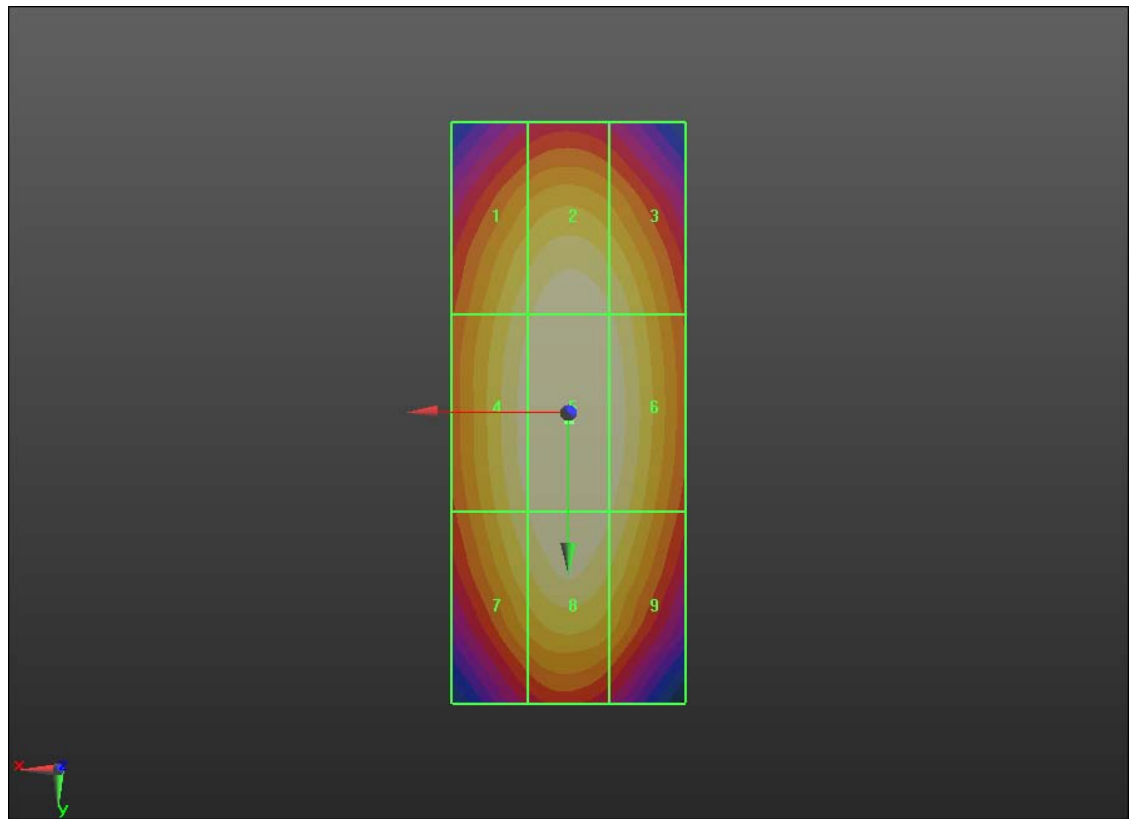
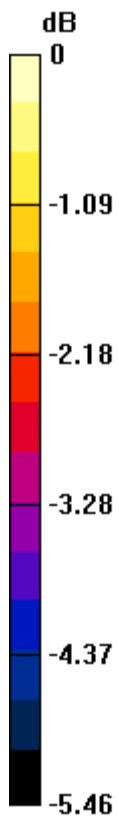
**Cursor:**

Total = 0.154 A/m


H Category: M4

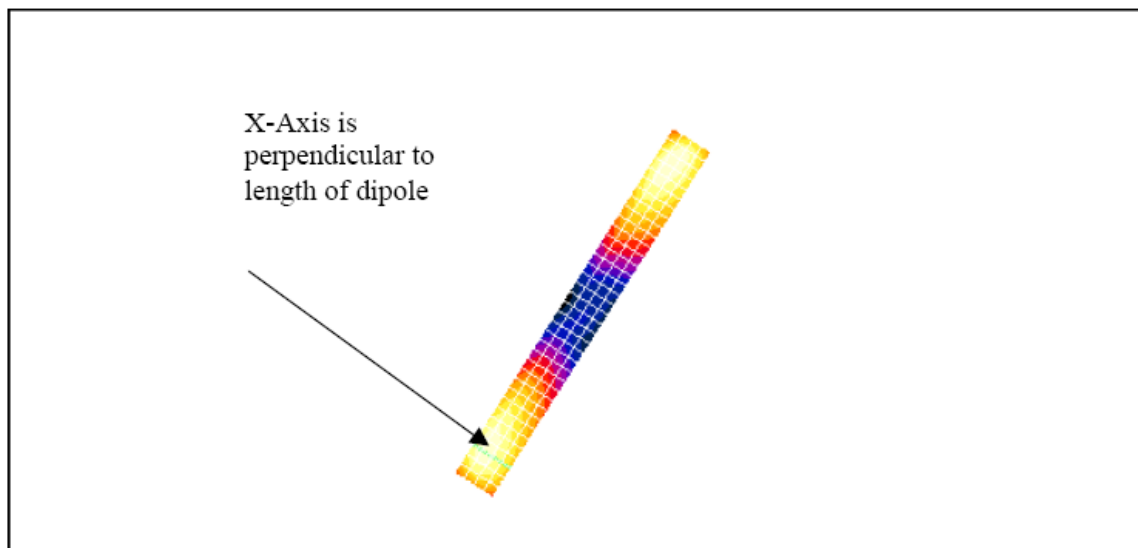
Location: 0, 0.5, 4.7 mm

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>46 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>



0 dB = 0.150A/m

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>47 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>




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.



	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>48 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

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

Page 1 of 2

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/m<sup>3</sup>

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

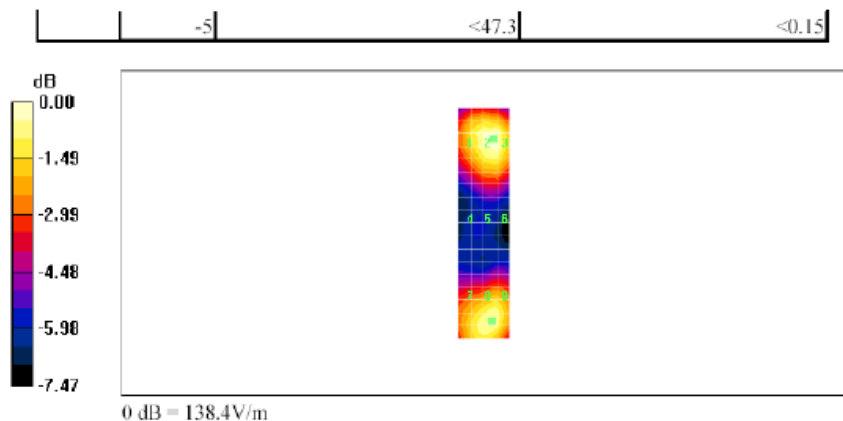
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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


	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>49 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

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

Page 2 of 2



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

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>50 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

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

Page 1 of 2

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/m<sup>3</sup>

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

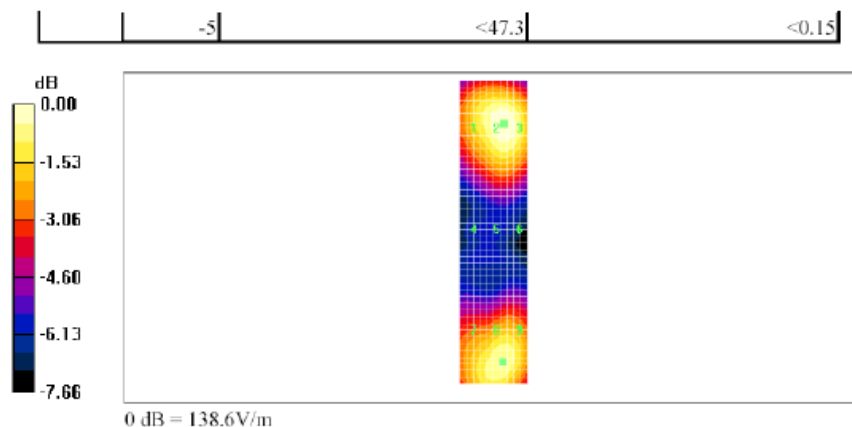
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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


	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>51 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

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

Page 2 of 2



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

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>52 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

Date/Time: 14/07/2005 12:43:02 PM

Page 1 of 2

Date/Time: 14/07/2005 12:43:02 PM

**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/m<sup>3</sup>

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
<b>0.342</b>	<b>0.359</b>	<b>0.344</b>	<b>0.342</b>	<b>0.359</b>	<b>0.344</b>
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
<b>0.389</b>	<b>0.406</b>	<b>0.389</b>	<b>0.389</b>	<b>0.406</b>	<b>0.389</b>
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
<b>0.363</b>	<b>0.378</b>	<b>0.363</b>	<b>0.363</b>	<b>0.378</b>	<b>0.363</b>

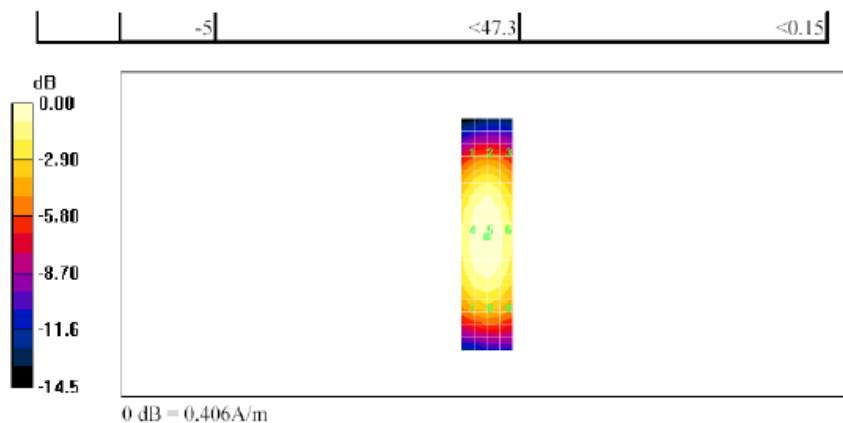
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

file://C:\Program%20Files\DASY4\Print\_Templates\HAC\_H\_Dipole\_CW%201880\_5%... 14/07/2005


	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>53 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

Date/Time: 14/07/2005 12:43:02 PM

Page 2 of 2



file://C:\Program%20Files\DASY4\Print\_Templates\HAC\_H\_Dipole\_CW%201880\_5%... 14/07/2005

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>54 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

Date/Time: 14/07/2005 12:53:40 PM

Page 1 of 2

Date/Time: 14/07/2005 12:53:40 PM

**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/m<sup>3</sup>

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
<b>0.347</b>	<b>0.361</b>	<b>0.348</b>	<b>0.347</b>	<b>0.361</b>	<b>0.348</b>
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
<b>0.394</b>	<b>0.406</b>	<b>0.391</b>	<b>0.394</b>	<b>0.406</b>	<b>0.391</b>
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
<b>0.367</b>	<b>0.380</b>	<b>0.365</b>	<b>0.367</b>	<b>0.380</b>	<b>0.365</b>

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

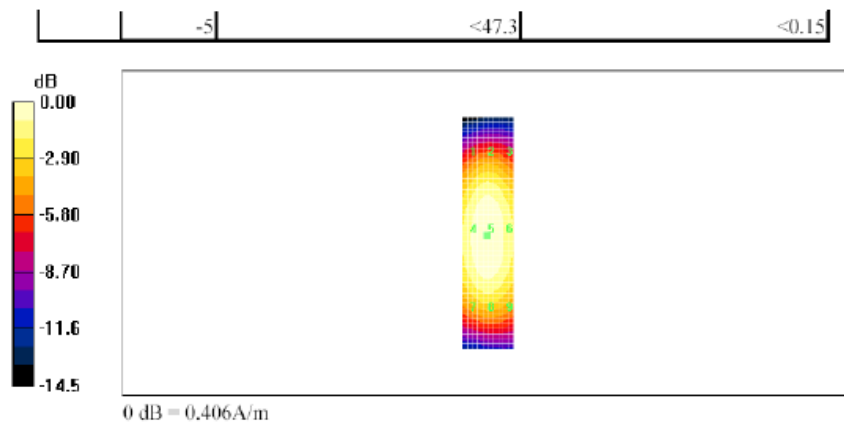
file://C:\Program%20Files\DASY4\Print\_Templates\HAC\_H\_Dipole\_CW%201880\_2%... 14/07/2005




	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>55 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

Date/Time: 14/07/2005 12:53:40 PM


Page 2 of 2



file://C:\Program%20Files\DASY4\Print\_Templates\HAC\_H\_Dipole\_CW%201880\_2%... 14/07/2005

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test  Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>56 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

### A.3 RF emissions plots

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>57 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

Date/Time: 7/28/2011 3:00:54 PM

Test Laboratory: RIM Testing Services

HAC RF\_E-Field\_CDMA850

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32F66A09**

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/m<sup>3</sup>

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
  - Modulation Compensation: **Not calibrated**
- 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: 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/Hearing Aid Compatibility**

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

Maximum value of peak Total field = 65.139 V/m

Probe Modulation Factor = 0.940

Device Reference Point: 0, 0, -6.3 mm

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>58 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

Reference Value = 85.715 V/m; Power Drift = -0.03 dB

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

Peak E-field in V/m

Grid 1 <b>55.867</b> <b>M4</b>	Grid 2 <b>61.981</b> <b>M4</b>	Grid 3 <b>61.540</b> <b>M4</b>
Grid 4 <b>58.350</b> <b>M4</b>	Grid 5 <b>65.139</b> <b>M4</b>	Grid 6 <b>64.542</b> <b>M4</b>
Grid 7 <b>59.989</b> <b>M4</b>	Grid 8 <b>65.225</b> <b>M4</b>	Grid 9 <b>64.595</b> <b>M4</b>

**Cursor:**

Total = 65.225 V/m

E Category: M4

Location: -4.5, 10, 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 = 70.350 V/m

Probe Modulation Factor = 0.940


Device Reference Point: 0, 0, -6.3 mm

Reference Value = 90.637 V/m; Power Drift = 0.12 dB

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

Peak E-field in V/m

Grid 1 <b>56.538</b> <b>M4</b>	Grid 2 <b>65.553</b> <b>M4</b>	Grid 3 <b>65.423</b> <b>M4</b>
Grid 4 <b>60.935</b> <b>M4</b>	Grid 5 <b>70.350</b> <b>M4</b>	Grid 6 <b>69.864</b> <b>M4</b>
Grid 7 <b>63.602</b> <b>M4</b>	Grid 8 <b>71.311</b> <b>M4</b>	Grid 9 <b>71.087</b> <b>M4</b>

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>59 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

**Cursor:**

Total = 71.311 V/m  
E Category: M4  
Location: -6, 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 = 69.254 V/m  
Probe Modulation Factor = 0.940  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 89.096 V/m; Power Drift = 0.03 dB

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

Peak E-field in V/m

Grid 1 <b>56.213</b> M4	Grid 2 <b>66.620</b> M4	Grid 3 <b>66.434</b> M4
Grid 4 <b>58.169</b> M4	Grid 5 <b>69.254</b> M4	Grid 6 <b>69.153</b> M4
Grid 7 <b>59.132</b> M4	Grid 8 <b>69.568</b> M4	Grid 9 <b>69.439</b> M4


**Cursor:**

Total = 69.568 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 = 78.330 V/m  
Probe Modulation Factor = 2.600  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 36.261 V/m; Power Drift = 0.12 dB

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

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>60 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

Peak E-field in V/m

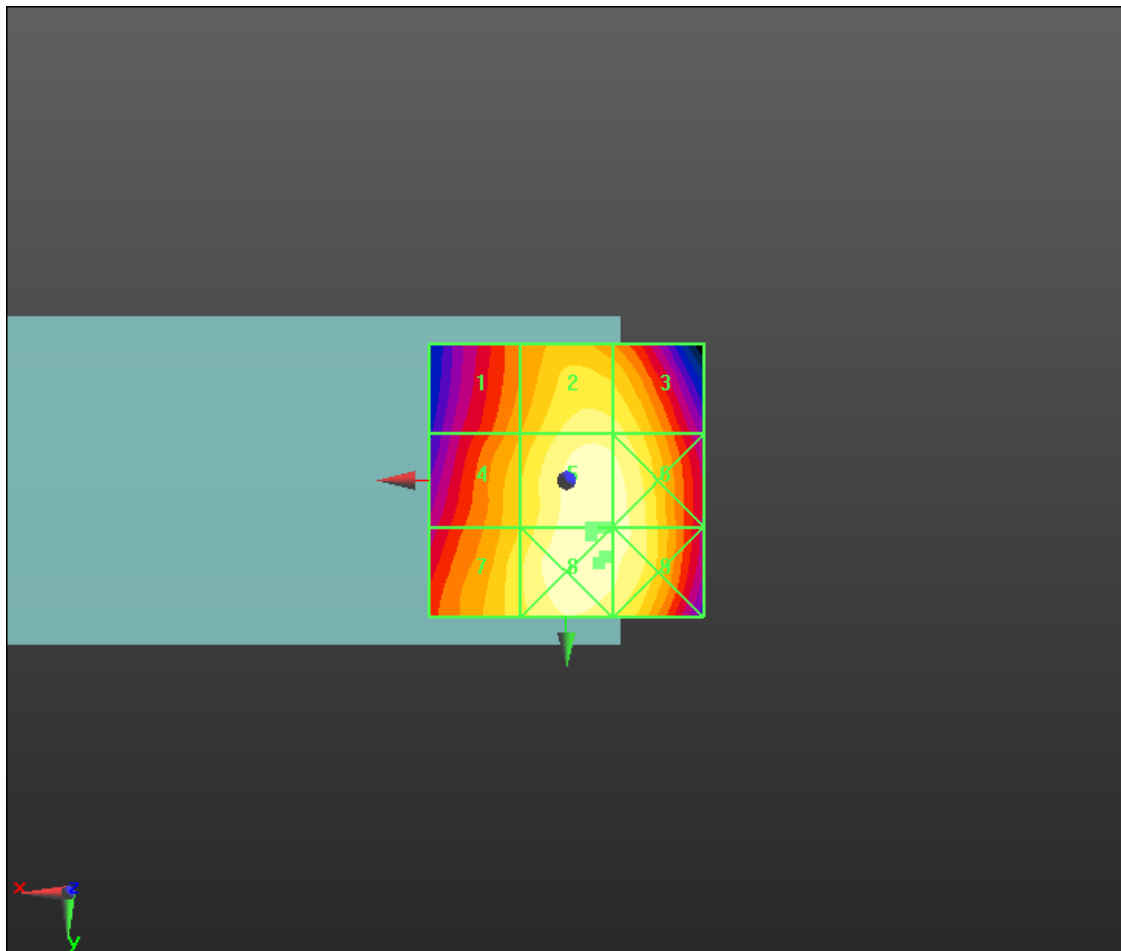
Grid 1 <b>59.862</b> <b>M4</b>	Grid 2 <b>68.661</b> <b>M4</b>	Grid 3 <b>69.916</b> <b>M4</b>
Grid 4 <b>64.634</b> <b>M4</b>	Grid 5 <b>78.330</b> <b>M4</b>	Grid 6 <b>76.225</b> <b>M4</b>
Grid 7 <b>70.990</b> <b>M4</b>	Grid 8 <b>79.106</b> <b>M4</b>	Grid 9 <b>77.712</b> <b>M4</b>


Cursor:

Total = 79.106 V/m

E Category: M4

Location: -4.5, 10, 8.7 mm



	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>61 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

0 dB = 65.220V/m

Date/Time: 7/28/2011 3:25:23 PM

Test Laboratory: RIM Testing Services

HAC RF\_E-Field\_CDMA850\_telecoil

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32F66A09**

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/m<sup>3</sup>

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
  - Modulation Compensation: **Not calibrated**
- 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 = 79.886 V/m

Probe Modulation Factor = 2.600



	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>62 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 32.726 V/m; Power Drift = 0.89 dB

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

Peak E-field in V/m


Grid 1 <b>65.825</b> <b>M4</b>	Grid 2 <b>76.418</b> <b>M4</b>	Grid 3 <b>67.521</b> <b>M4</b>
Grid 4 <b>73.135</b> <b>M4</b>	Grid 5 <b>79.886</b> <b>M4</b>	Grid 6 <b>69.191</b> <b>M4</b>
Grid 7 <b>67.207</b> <b>M4</b>	Grid 8 <b>78.816</b> <b>M4</b>	Grid 9 <b>68.085</b> <b>M4</b>

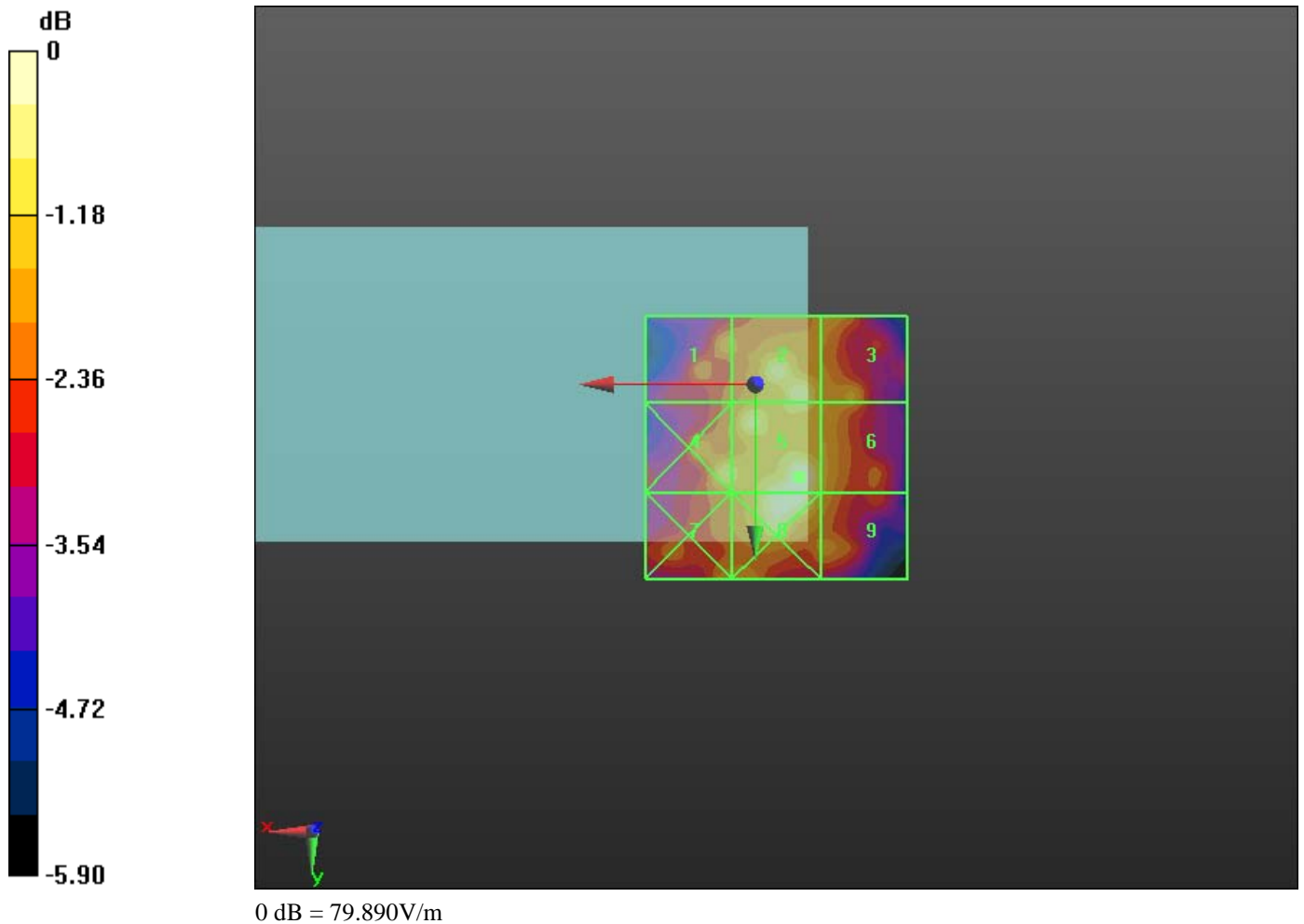
**Cursor:**


Total = 79.886 V/m

E Category: M4

Location: -8.5, 17.5, 8.7 mm

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>63 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>



	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>64 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

Date/Time: 7/28/2011 3:51:31 PM

Test Laboratory: RIM Testing Services

HAC RF\_E-Field\_CDMA1900

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32F66A09**

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/m<sup>3</sup>

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
  - Modulation Compensation: **Not calibrated**
- 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 = 34.464 V/m

Probe Modulation Factor = 0.940

Device Reference Point: 0, 0, -6.3 mm

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>65 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

Reference Value = 25.058 V/m; Power Drift = 0.04 dB

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

Peak E-field in V/m

Grid 1 <b>34.357</b> <b>M4</b>	Grid 2 <b>33.904</b> <b>M4</b>	Grid 3 <b>25.551</b> <b>M4</b>
Grid 4 <b>20.157</b> <b>M4</b>	Grid 5 <b>33.560</b> <b>M4</b>	Grid 6 <b>34.515</b> <b>M4</b>
Grid 7 <b>34.464</b> <b>M4</b>	Grid 8 <b>44.662</b> <b>M4</b>	Grid 9 <b>44.493</b> <b>M4</b>

**Cursor:**

Total = 44.662 V/m

E Category: M4

Location: -6.5, 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 = 31.873 V/m

Probe Modulation Factor = 0.940


Device Reference Point: 0, 0, -6.3 mm

Reference Value = 26.421 V/m; Power Drift = -0.12 dB

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

Peak E-field in V/m

Grid 1 <b>31.360</b> <b>M4</b>	Grid 2 <b>31.137</b> <b>M4</b>	Grid 3 <b>25.599</b> <b>M4</b>
Grid 4 <b>18.652</b> <b>M4</b>	Grid 5 <b>31.873</b> <b>M4</b>	Grid 6 <b>32.365</b> <b>M4</b>
Grid 7 <b>30.255</b> <b>M4</b>	Grid 8 <b>40.998</b> <b>M4</b>	Grid 9 <b>40.890</b> <b>M4</b>

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>66 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

**Cursor:**

Total = 40.998 V/m  
E Category: M4  
Location: -6.5, 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 = 31.757 V/m  
Probe Modulation Factor = 0.940  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 25.480 V/m; Power Drift = 0.02 dB

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

Peak E-field in V/m

Grid 1 <b>31.757</b> <b>M4</b>	Grid 2 <b>31.733</b> <b>M4</b>	Grid 3 <b>27.180</b> <b>M4</b>
Grid 4 <b>18.675</b> <b>M4</b>	Grid 5 <b>30.423</b> <b>M4</b>	Grid 6 <b>30.808</b> <b>M4</b>
Grid 7 <b>30.578</b> <b>M4</b>	Grid 8 <b>39.056</b> <b>M4</b>	Grid 9 <b>38.853</b> <b>M4</b>


**Cursor:**

Total = 39.056 V/m  
E Category: M4  
Location: -6, 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 = 37.367 V/m  
Probe Modulation Factor = 2.570  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 9.391 V/m; Power Drift = 0.65 dB

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

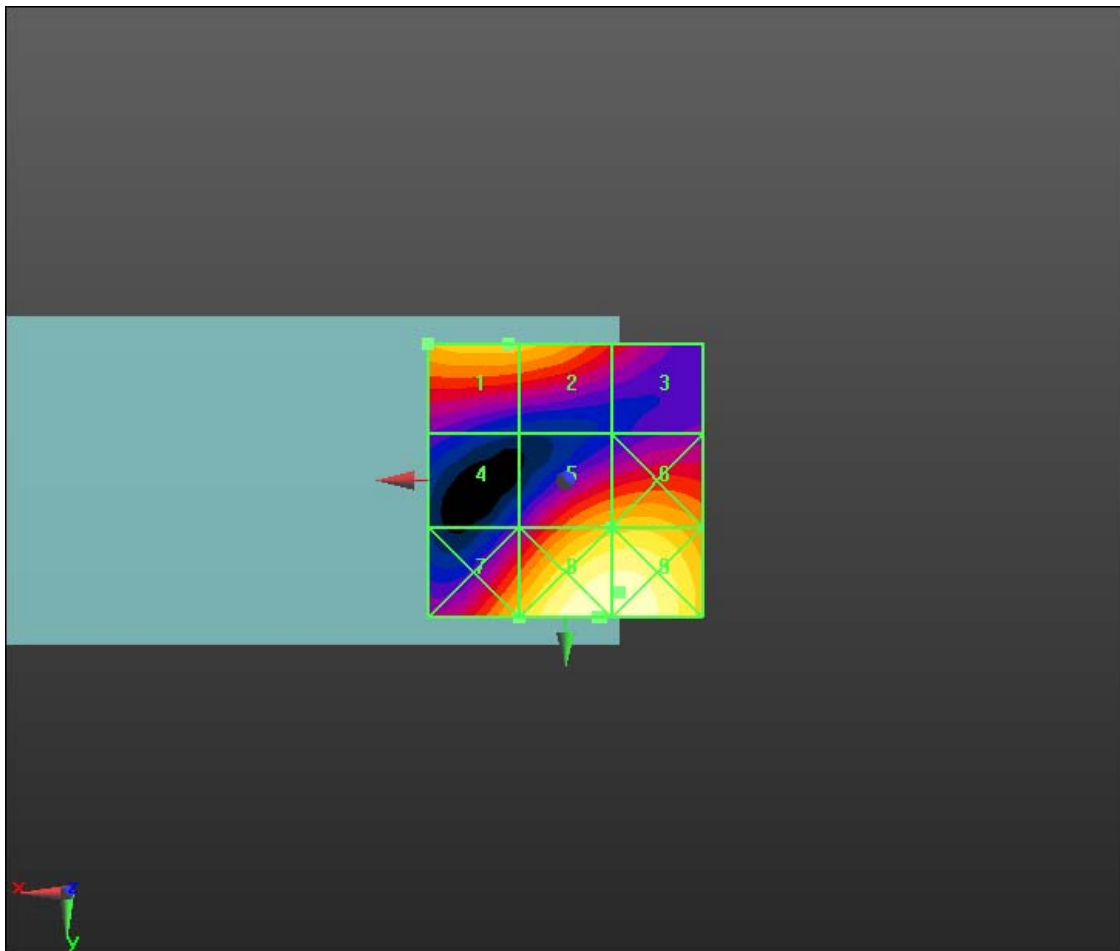
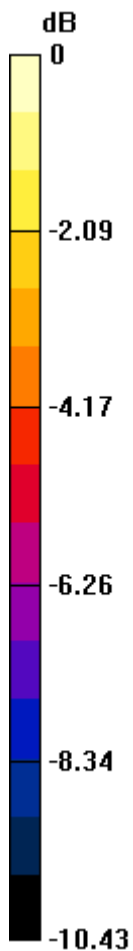
	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>67 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>


Peak E-field in V/m

Grid 1 <b>37.367</b> <b>M4</b>	Grid 2 <b>35.851</b> <b>M4</b>	Grid 3 <b>23.957</b> <b>M4</b>
Grid 4 <b>20.213</b> <b>M4</b>	Grid 5 <b>32.764</b> <b>M4</b>	Grid 6 <b>33.806</b> <b>M4</b>
Grid 7 <b>34.189</b> <b>M4</b>	Grid 8 <b>45.493</b> <b>M4</b>	Grid 9 <b>46.550</b> <b>M4</b>

Cursor:

Total = 46.550 V/m  
E Category: M4  
Location: -10, 20.5, 8.7 mm



	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>68 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

0 dB = 44.660V/m

Date/Time: 7/28/2011 4:14:41 PM

Test Laboratory: RIM Testing Services

HAC RF\_E-Field\_CDMA1900\_telecoil

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32F66A09**

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/m<sup>3</sup>

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
  - Modulation Compensation: **Not calibrated**
- 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 = 47.657 V/m

Probe Modulation Factor = 2.570

Device Reference Point: 0, 0, -6.3 mm



	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>69 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

Reference Value = 9.172 V/m; Power Drift = -0.31 dB

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

Peak E-field in V/m


Grid 1 <b>21.170</b> <b>M4</b>	Grid 2 <b>30.097</b> <b>M4</b>	Grid 3 <b>30.501</b> <b>M4</b>
Grid 4 <b>33.987</b> <b>M4</b>	Grid 5 <b>47.657</b> <b>M4</b>	Grid 6 <b>42.628</b> <b>M4</b>
Grid 7 <b>39.717</b> <b>M4</b>	Grid 8 <b>49.226</b> <b>M4</b>	Grid 9 <b>43.983</b> <b>M4</b>

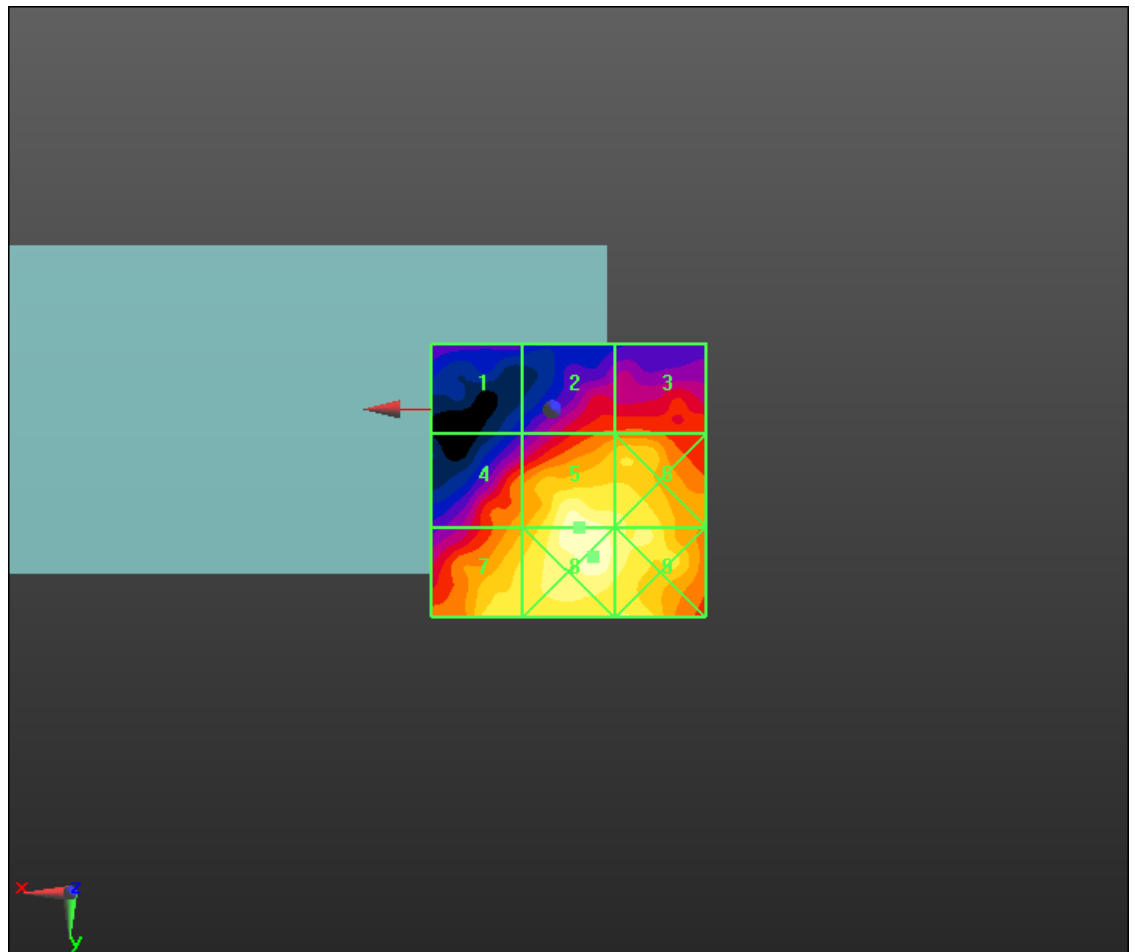
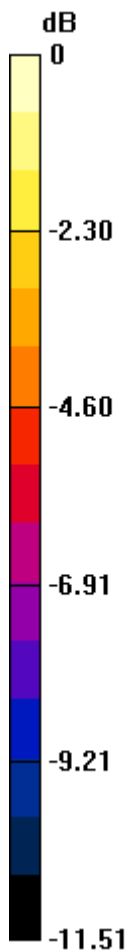
**Cursor:**

Total = 49.226 V/m


E Category: M4

Location: -7.5, 27, 8.7 mm

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>70 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>



0 dB = 49.230V/m

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>71 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

Date/Time: 7/28/2011 5:31:01 PM

Test Laboratory: RIM Testing Services

HAC RF\_H-Field\_CDMA850

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32F66A09**

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/m<sup>3</sup>

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
  - Modulation Compensation: **Not calibrated**
- 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 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 = 0.146 A/m

Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>72 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

Reference Value = 0.086 A/m; Power Drift = 0.09 dB

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


Peak H-field in A/m

Grid 1 <b>0.146</b> <b>M</b> <b>4</b>	Grid 2 <b>0.103</b> <b>M</b> <b>4</b>	Grid 3 <b>0.064</b> <b>M</b> <b>4</b>
Grid 4 <b>0.137</b> <b>M</b> <b>4</b>	Grid 5 <b>0.099</b> <b>M</b> <b>4</b>	Grid 6 <b>0.062</b> <b>M</b> <b>4</b>
Grid 7 <b>0.147</b> <b>M</b> <b>4</b>	Grid 8 <b>0.107</b> <b>M</b> <b>4</b>	Grid 9 <b>0.067</b> <b>M</b> <b>4</b>

**Cursor:**

Total = 0.147 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 = 0.159 A/m  
Probe Modulation Factor = 0.970  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 0.107 A/m; Power Drift = -0.03 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>73 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>


Peak H-field in A/m

Grid 1 <b>0.159</b> M 4	Grid 2 <b>0.116</b> M 4	Grid 3 <b>0.077</b> M 4
Grid 4 <b>0.150</b> M 4	Grid 5 <b>0.116</b> M 4	Grid 6 <b>0.078</b> M 4
Grid 7 <b>0.168</b> M 4	Grid 8 <b>0.127</b> M 4	Grid 9 <b>0.082</b> M 4

**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 = 0.157 A/m  
Probe Modulation Factor = 0.970  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 0.106 A/m; Power Drift = -0.05 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>74 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>


Peak H-field in A/m

Grid 1 <b>0.157</b> M 4	Grid 2 <b>0.113</b> M 4	Grid 3 <b>0.073</b> M 4
Grid 4 <b>0.156</b> M 4	Grid 5 <b>0.122</b> M 4	Grid 6 <b>0.085</b> M 4
Grid 7 <b>0.177</b> M 4	Grid 8 <b>0.141</b> M 4	Grid 9 <b>0.098</b> M 4

**Cursor:**

Total = 0.177 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 = 0.170 A/m  
Probe Modulation Factor = 2.760  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 0.039 A/m; Power Drift = 0.14 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>75 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

Peak H-field in A/m


Grid 1 <b>0.170</b> M 4	Grid 2 <b>0.121</b> M 4	Grid 3 <b>0.087</b> M 4
Grid 4 <b>0.166</b> M 4	Grid 5 <b>0.139</b> M 4	Grid 6 <b>0.091</b> M 4
Grid 7 <b>0.196</b> M 4	Grid 8 <b>0.162</b> M 4	Grid 9 <b>0.116</b> M 4

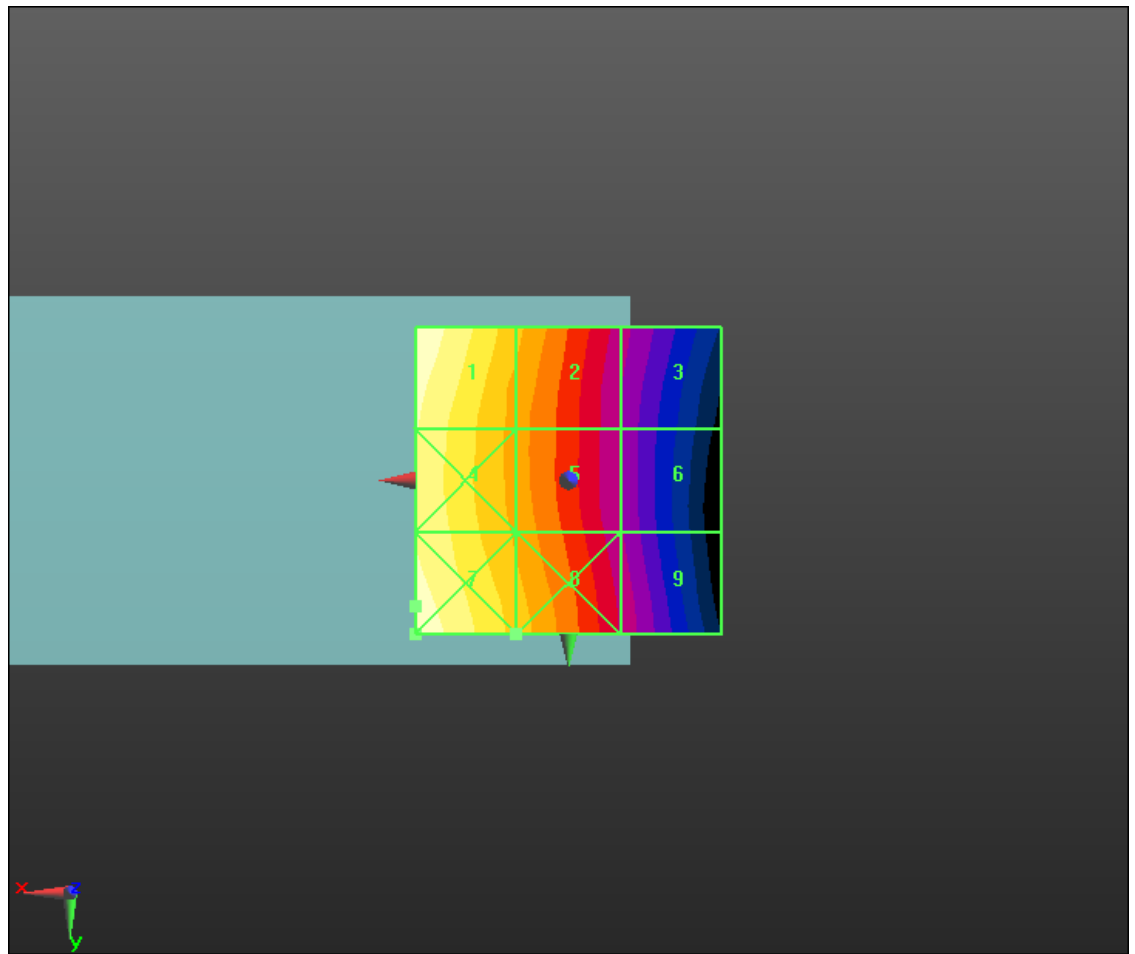
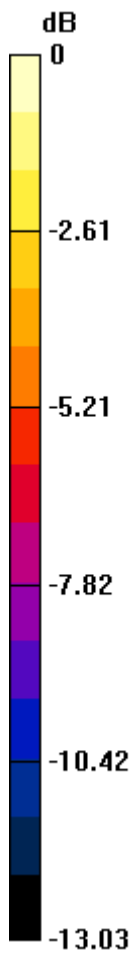
**Cursor:**

Total = 0.196 A/m

H Category: M4


Location: 25, 20.5, 8.7 mm

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>76 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>



0 dB = 0.150A/m



	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>77 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

Date/Time: 7/28/2011 5:39:42 PM

Test Laboratory: RIM Testing Services

HAC RF\_H-Field\_CDMA850\_telecoil

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32F66A09**

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/m<sup>3</sup>

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
  - Modulation Compensation: **Not calibrated**
- 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 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 = 0.165 A/m

Probe Modulation Factor = 2.760

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.039 A/m; Power Drift = 0.37 dB

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


	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>78 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

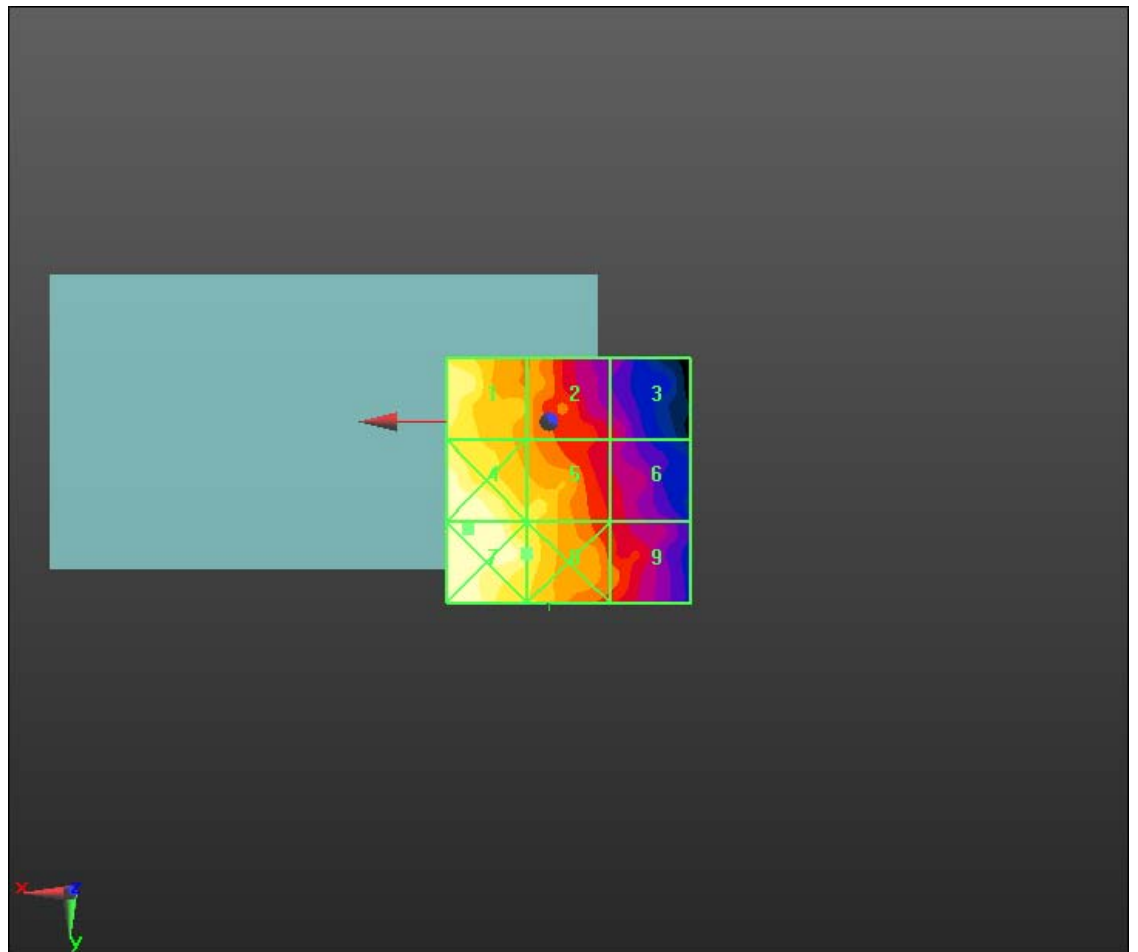
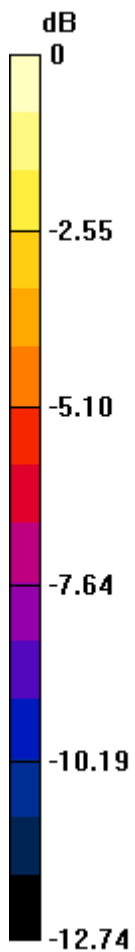
Peak H-field in A/m

Grid 1 <b>0.165</b> M 4	Grid 2 <b>0.121</b> M 4	Grid 3 <b>0.085</b> M 4
Grid 4 <b>0.182</b> M 4	Grid 5 <b>0.138</b> M 4	Grid 6 <b>0.091</b> M 4
Grid 7 <b>0.183</b> M 4	Grid 8 <b>0.153</b> M 4	Grid 9 <b>0.106</b> M 4


**Cursor:**

Total = 0.183 A/m  
H Category: M4  
Location: 16.5, 22, 8.7 mm

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>79 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>



0 dB = 0.180A/m

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>80 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

Date/Time: 8/4/2011 11:42:01 AM

Test Laboratory: RIM Testing Services

HAC RF\_H-Field\_CDMA1900

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32F66A09**

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/m<sup>3</sup>

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
  - Modulation Compensation: **Not calibrated**
- 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 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 = 0.096 A/m

Probe Modulation Factor = 0.820

Device Reference Point: 0, 0, -6.3 mm

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>81 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

Reference Value = 0.137 A/m; Power Drift = -0.08 dB

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


Peak H-field in A/m

Grid 1 <b>0.085</b> M 4	Grid 2 <b>0.096</b> M 4	Grid 3 <b>0.094</b> M 4
Grid 4 <b>0.083</b> M 4	Grid 5 <b>0.096</b> M 4	Grid 6 <b>0.095</b> M 4
Grid 7 <b>0.115</b> M 4	Grid 8 <b>0.097</b> M 4	Grid 9 <b>0.083</b> M 4

**Cursor:**

Total = 0.115 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 = 0.088 A/m  
Probe Modulation Factor = 0.820  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 0.122 A/m; Power Drift = 0.03 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>82 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

Peak H-field in A/m

Grid 1 <b>0.087</b> M 4	Grid 2 <b>0.088</b> M 4	Grid 3 <b>0.084</b> M 4
Grid 4 <b>0.079</b> M 4	Grid 5 <b>0.088</b> M 4	Grid 6 <b>0.085</b> M 4
Grid 7 <b>0.109</b> M 4	Grid 8 <b>0.095</b> M 4	Grid 9 <b>0.076</b> M 4

**Cursor:**

Total = 0.109 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 = 0.088 A/m

Probe Modulation Factor = 0.820

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.123 A/m; Power Drift = -0.07 dB

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

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>83 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>


Peak H-field in A/m

Grid 1 <b>0.084</b> M 4	Grid 2 <b>0.088</b> M 4	Grid 3 <b>0.084</b> M 4
Grid 4 <b>0.080</b> M 4	Grid 5 <b>0.088</b> M 4	Grid 6 <b>0.085</b> M 4
Grid 7 <b>0.110</b> M 4	Grid 8 <b>0.092</b> M 4	Grid 9 <b>0.073</b> M 4

**Cursor:**

Total = 0.110 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 = 0.117 A/m  
Probe Modulation Factor = 2.470  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 0.050 A/m; Power Drift = 6.27 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>84 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>


Peak H-field in A/m

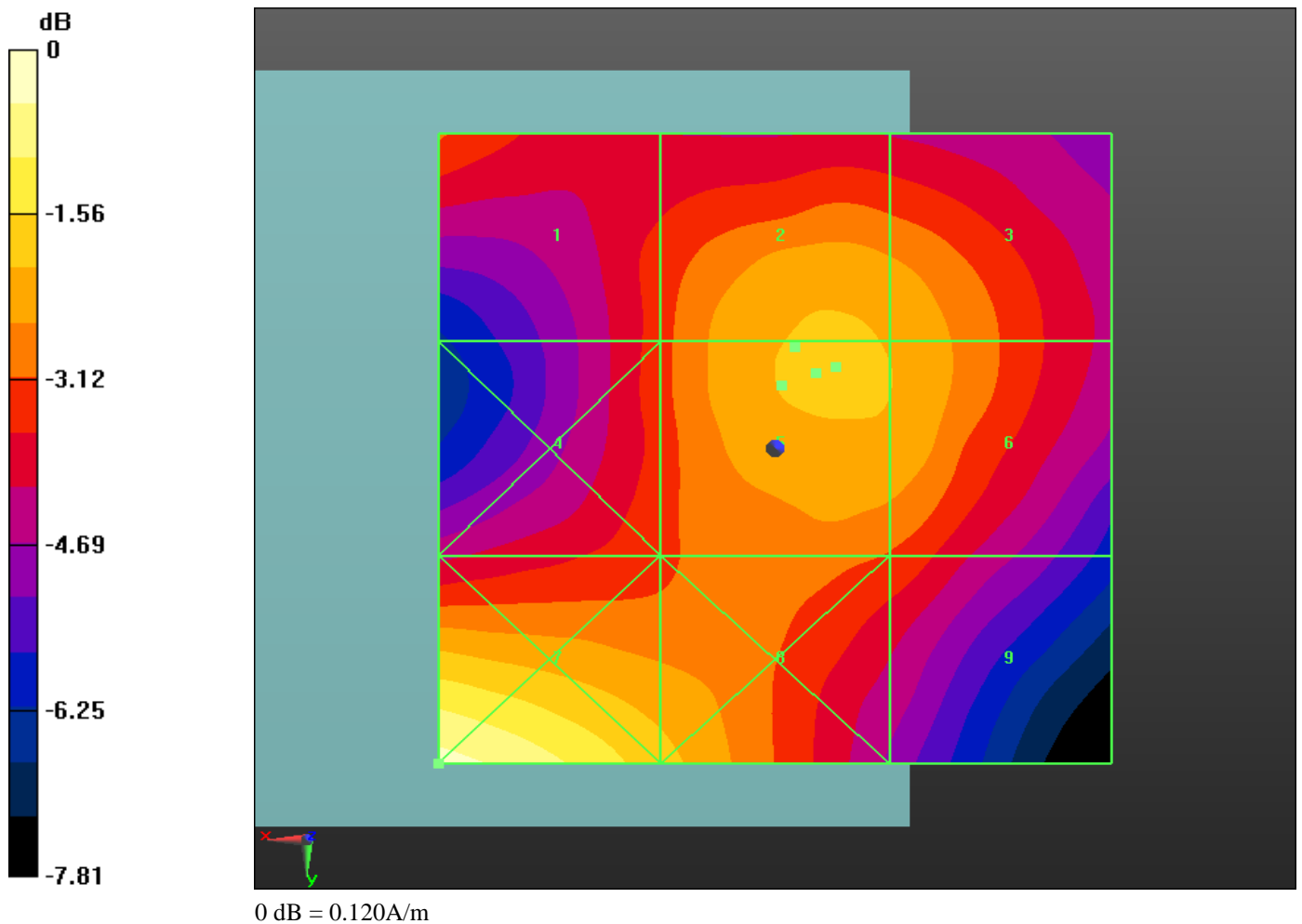
Grid 1 <b>0.094</b> M 4	Grid 2 <b>0.109</b> M 4	Grid 3 <b>0.111</b> M 4
Grid 4 <b>0.100</b> M 4	Grid 5 <b>0.117</b> M 4	Grid 6 <b>0.112</b> M 4
Grid 7 <b>0.135</b> M 4	Grid 8 <b>0.109</b> M 4	Grid 9 <b>0.091</b> M 4


**Cursor:**

Total = 0.135 A/m  
H Category: M4  
Location: 25, 25, 8.7 mm



	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>85 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>



	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>86 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

Date/Time: 7/28/2011 6:07:29 PM

Test Laboratory: RIM Testing Services

HAC RF\_H-Field\_CDMA1900\_Telecoil

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32F66A09**

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/m<sup>3</sup>

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
  - Modulation Compensation: **Not calibrated**
- 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 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 = 0.125 A/m

Probe Modulation Factor = 2.470

Device Reference Point: 0, 0, -6.3 mm

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDZ21CW</b>		Page <b>87 (88)</b>
Author Data <b>Hang Wang</b>	Dates of Test <b>July 28, Aug 4, 2011</b>	Report No <b>RTS-2604-1108-06</b>	FCC ID <b>L6ARDZ20CW</b>

Reference Value = 0.048 A/m; Power Drift = 7.44 dB

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

Peak H-field in A/m

Grid 1 <b>0.100</b> M 4	Grid 2 <b>0.102</b> M 4	Grid 3 <b>0.168</b> M 4
Grid 4 <b>0.111</b> M 4	Grid 5 <b>0.096</b> M 4	Grid 6 <b>0.134</b> M 4
Grid 7 <b>0.125</b> M 4	Grid 8 <b>0.099</b> M 4	Grid 9 <b>0.078</b> M 4

**Cursor:**

Total = 0.168 A/m

H Category: M4

Location: -28, -12, 8.7 mm

Author Data

**Hang Wang**

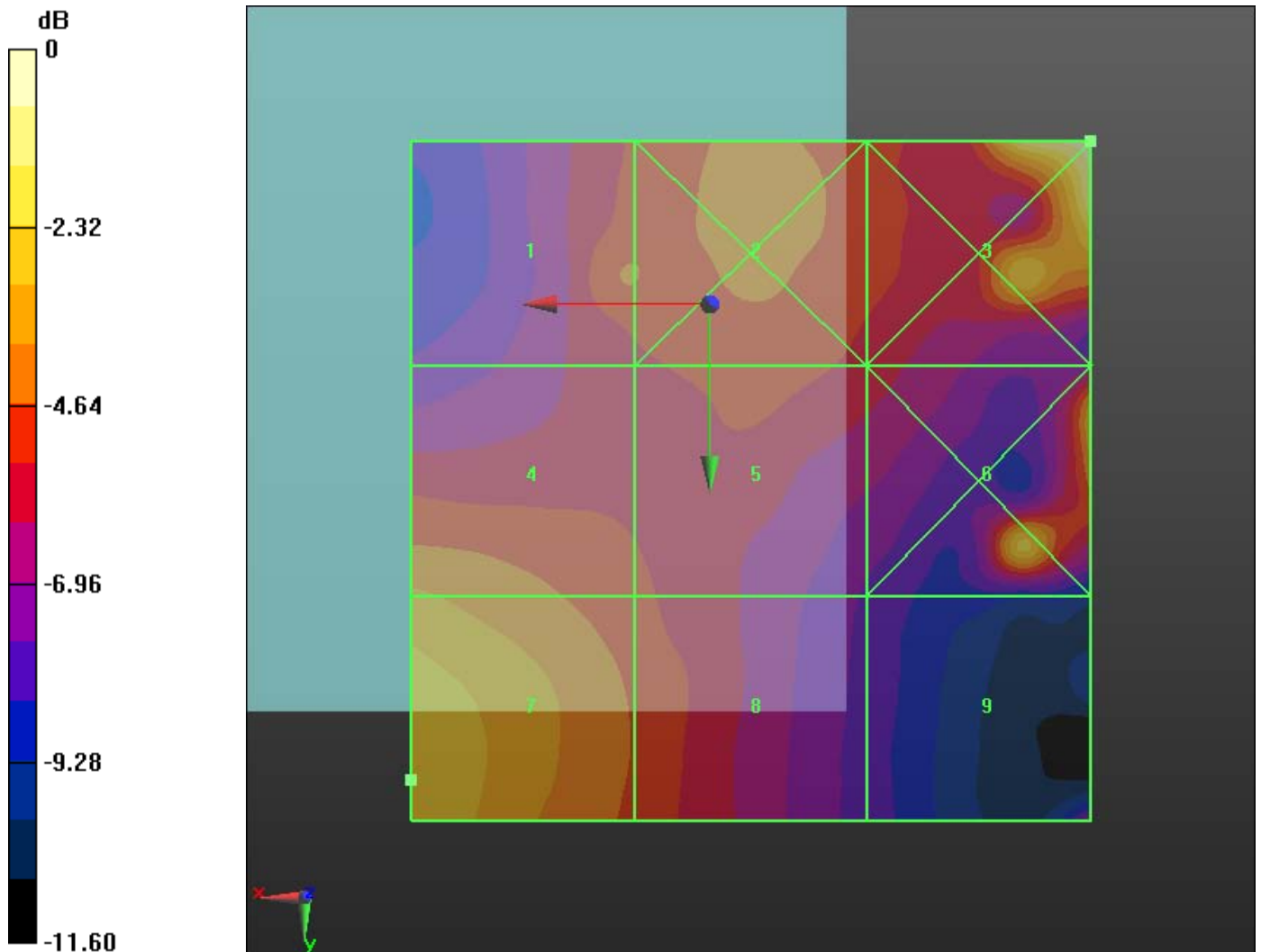
Dates of Test

**July 28, Aug 4, 2011**

Report No

**RTS-2604-1108-06**

FCC ID

**L6ARDZ20CW**


0 dB = 0.170A/m