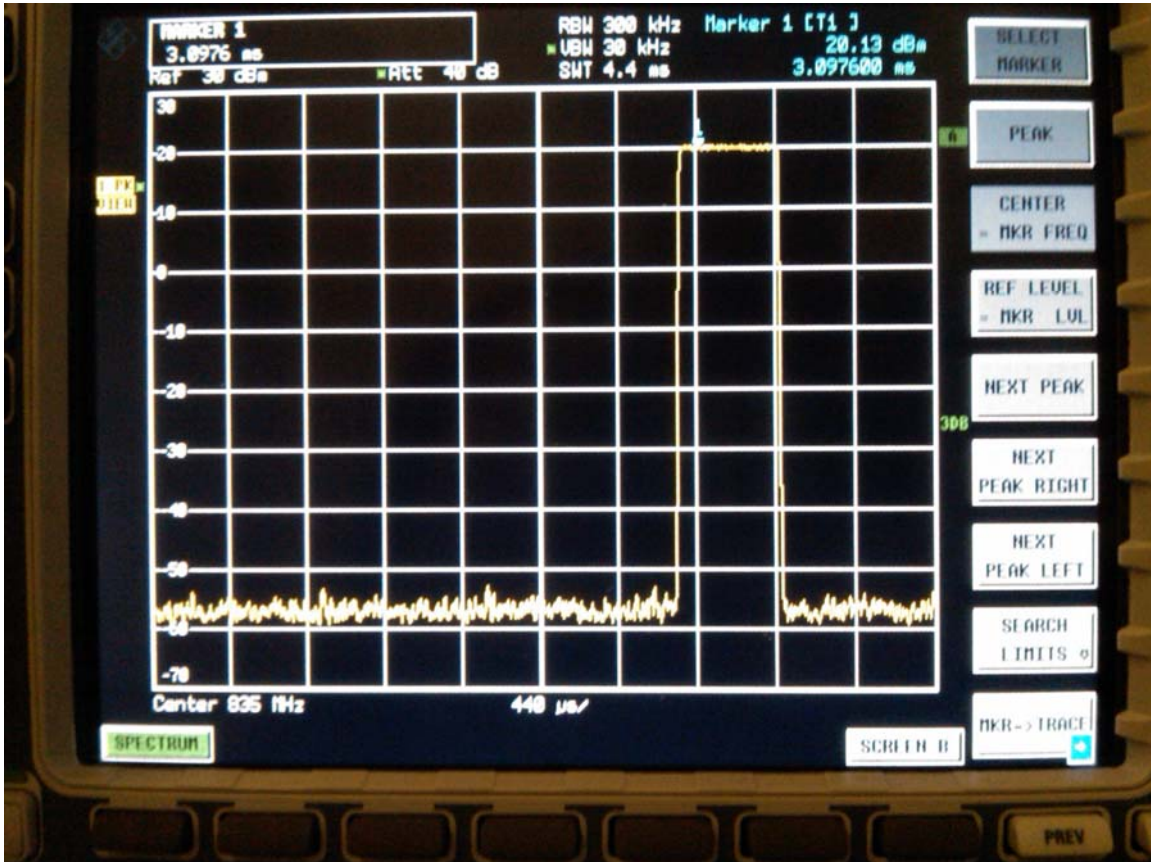

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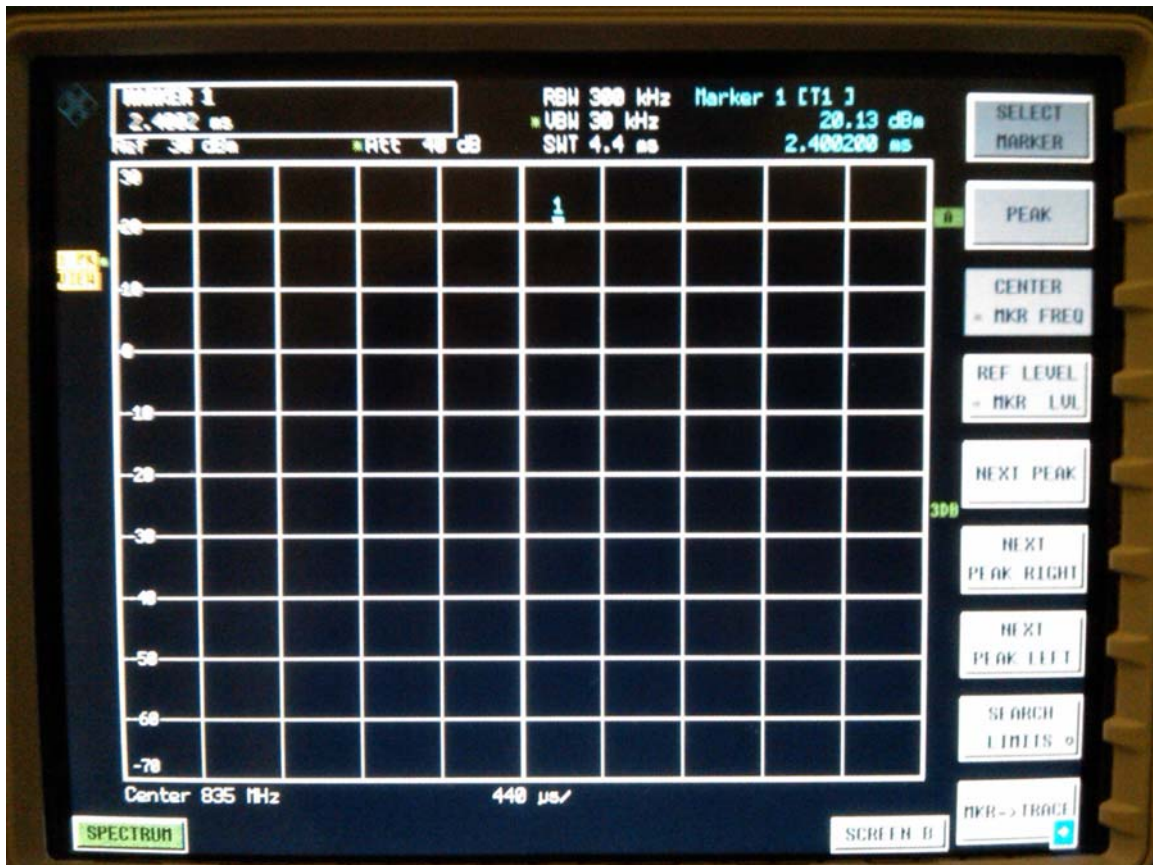
## Annex A: Measurement data and plots

### A.1 Spectrum analyser plots: GSM/CDMA/UMTS, CW, 80%AM, signals




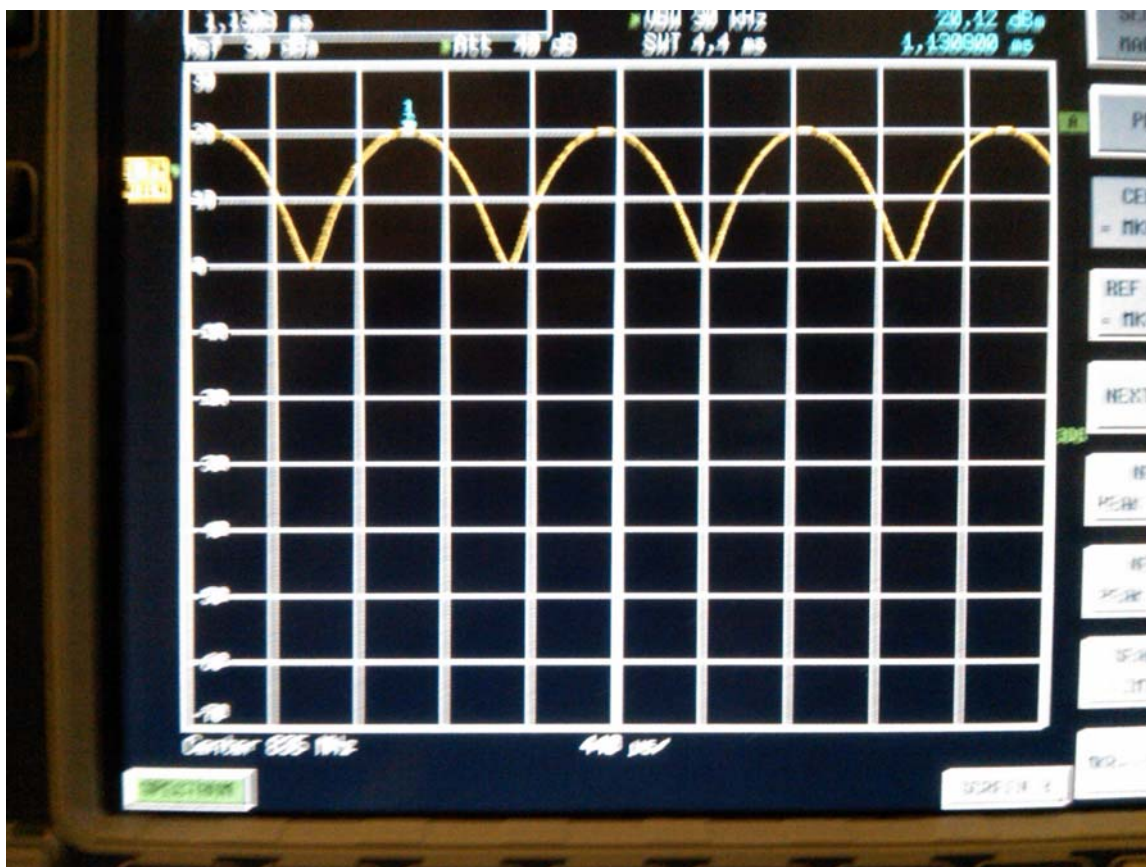
GSM 835 MHz

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CW 835 MHz

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**AM 80% 835 MHz**

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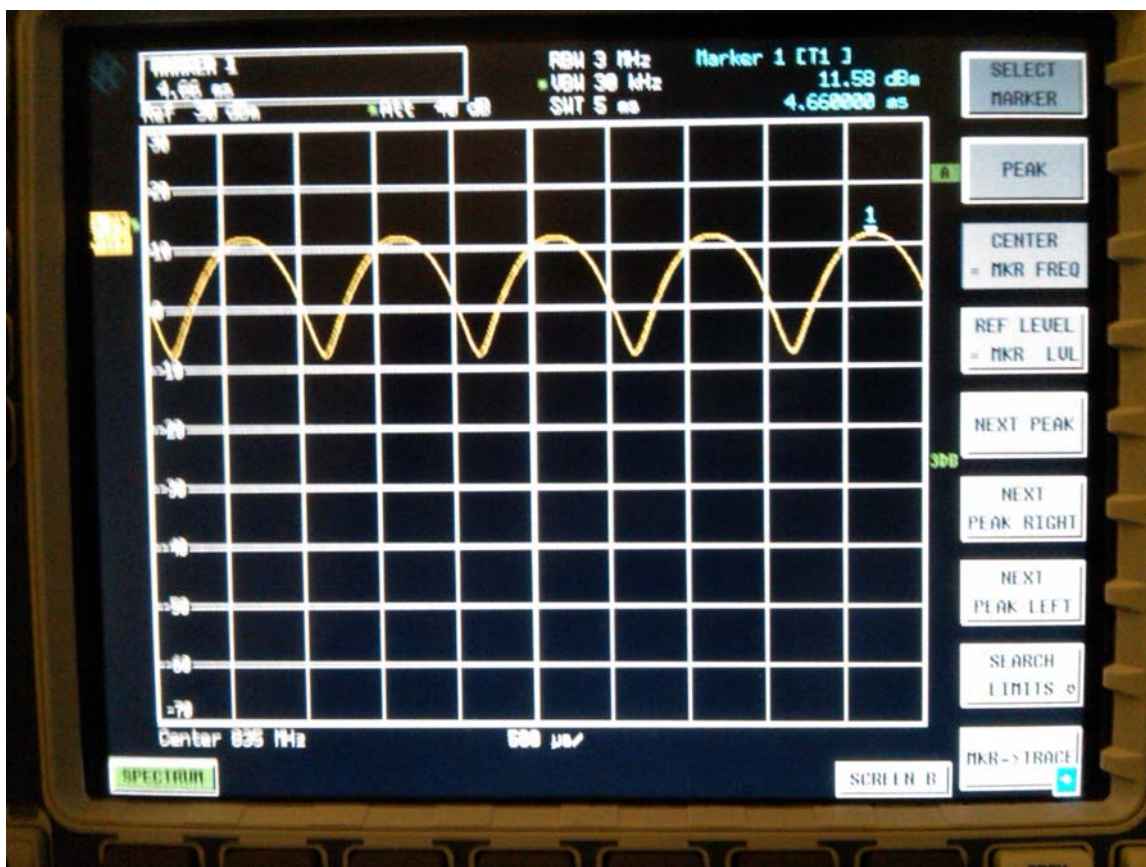
CDMA 835 MHz

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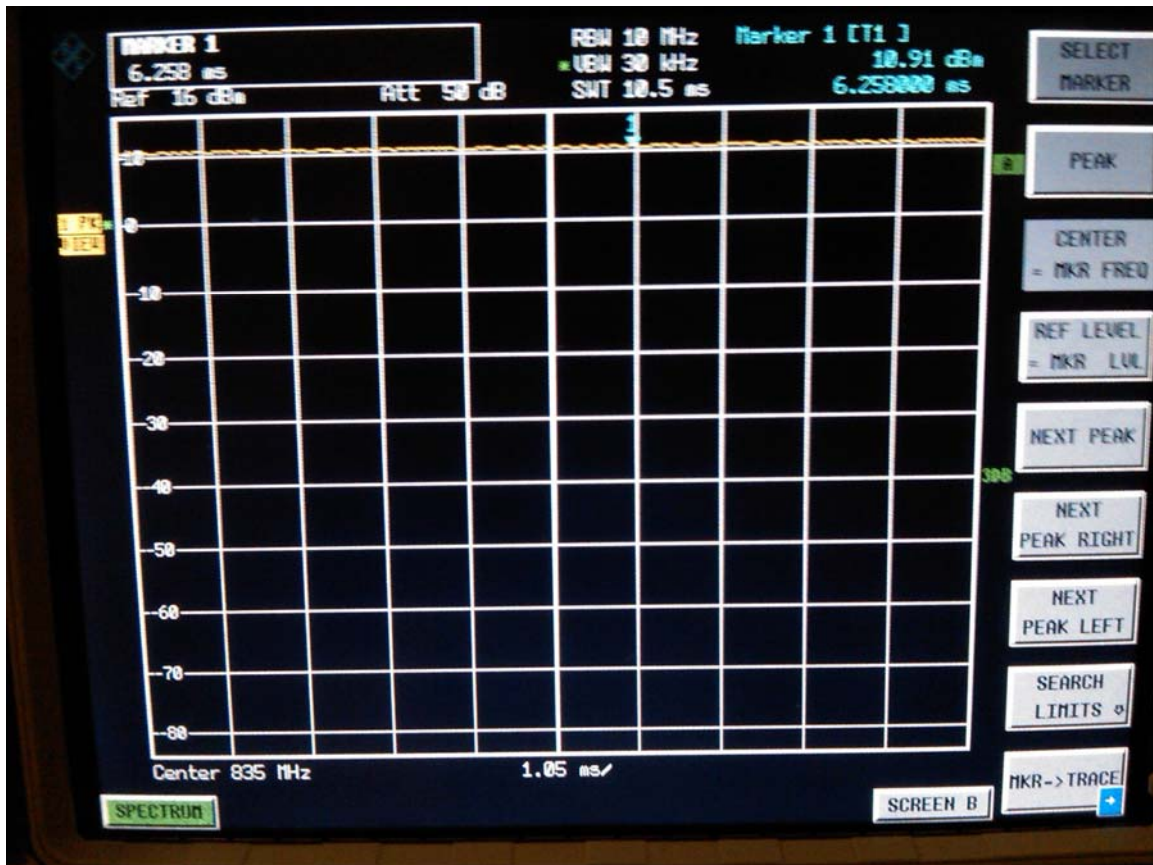
CW 835 MHz

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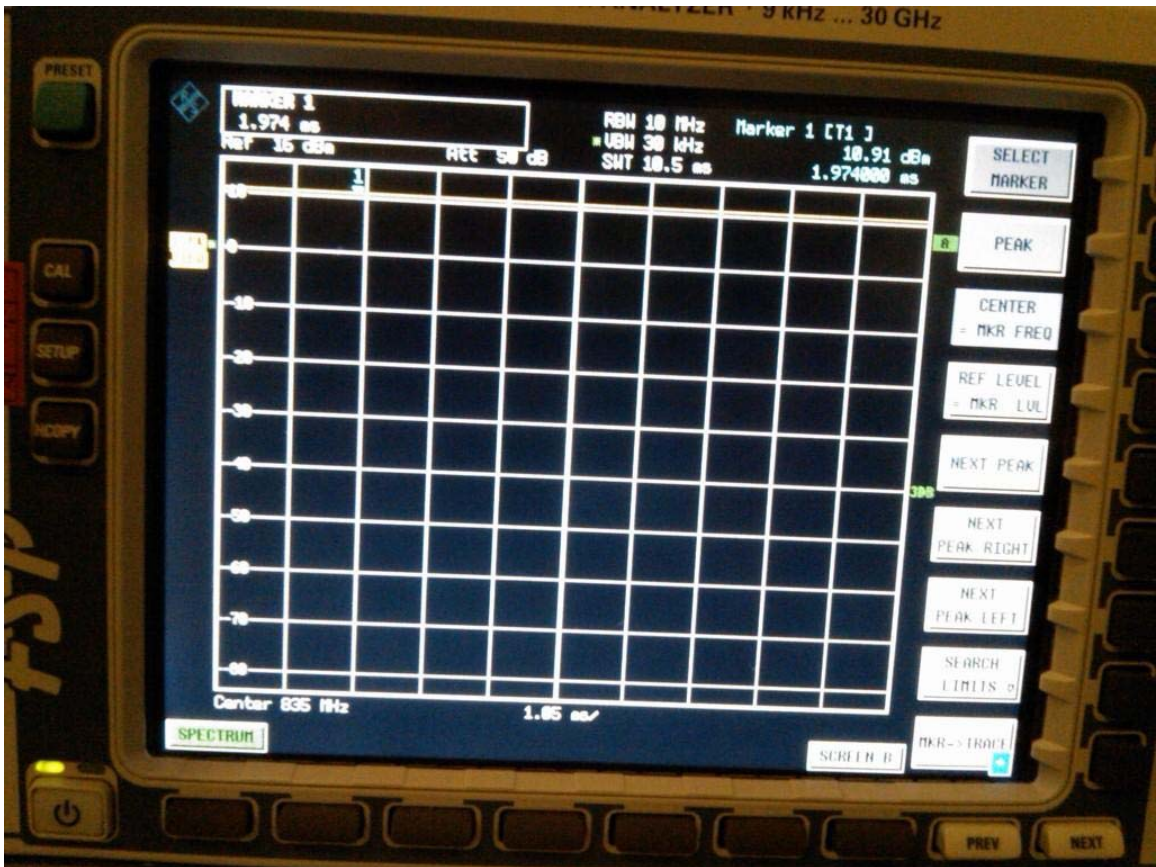
**AM 80% 835 MHz**

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UMTS 835 MHz

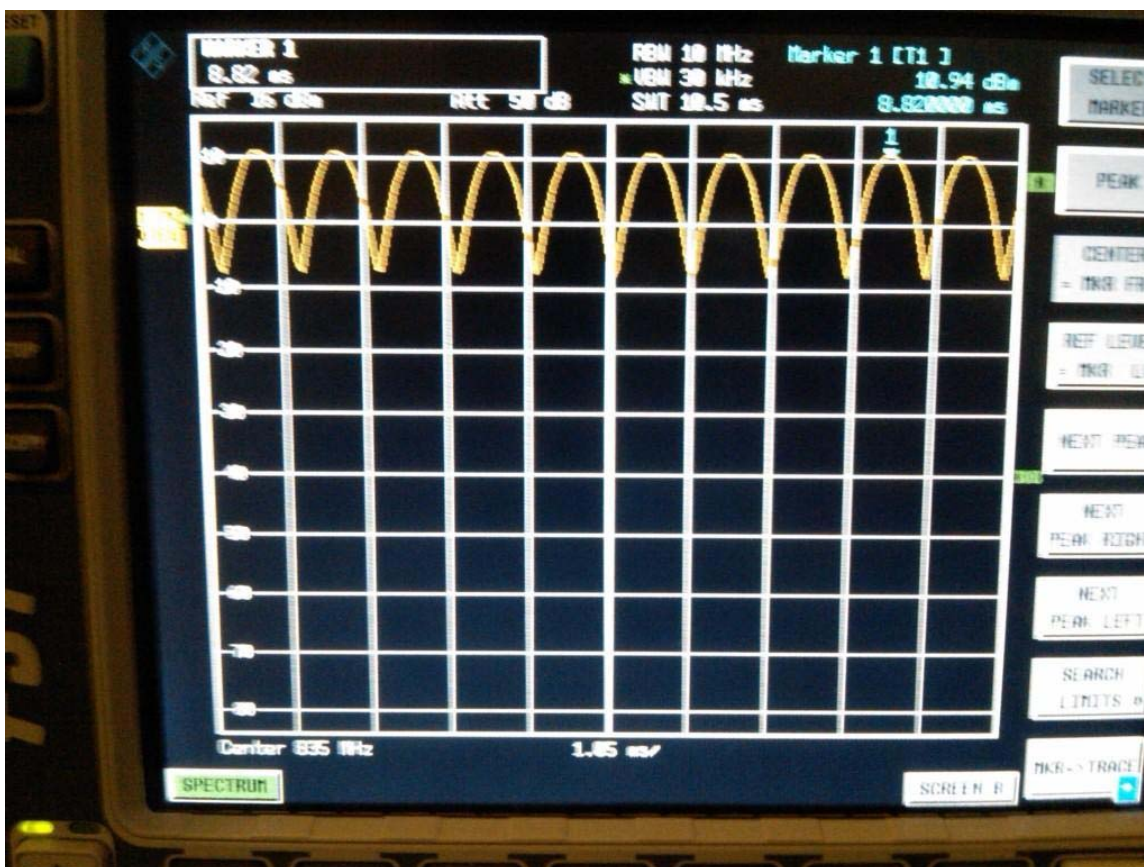
	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDH71CW/RDP71UW</b>		Page <b>8 (286)</b>
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CW 835 MHz



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AM 80% 835 MHz

Author Data  
**Daoud Attayi**

Dates of Test  
**Jan. 12-19, 2011**  
**Feb. 28-Mar. 01, 2011**

Report No  
**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW**  
**L6ARDP70UW**



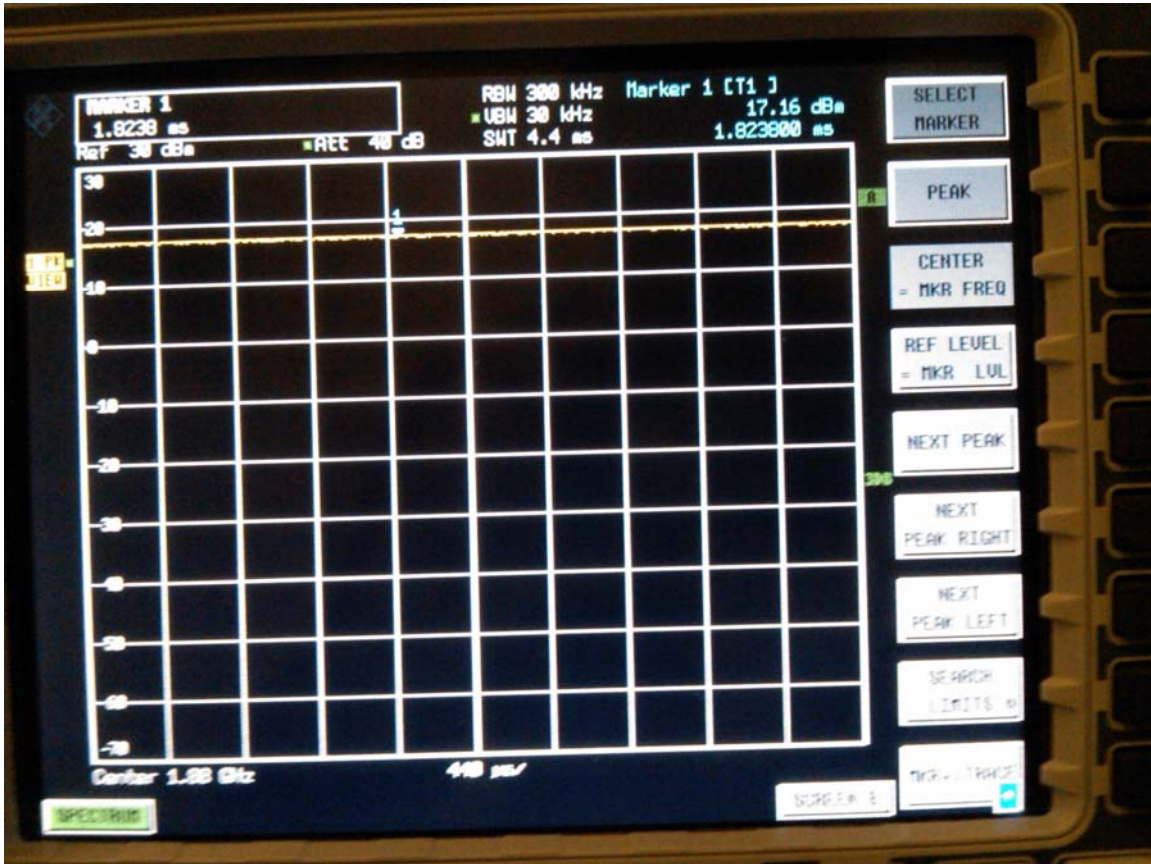
**GSM 1880 MHz**

Author Data  
**Daoud Attayi**


Dates of Test  
**Jan. 12-19, 2011**  
**Feb. 28-Mar. 01, 2011**

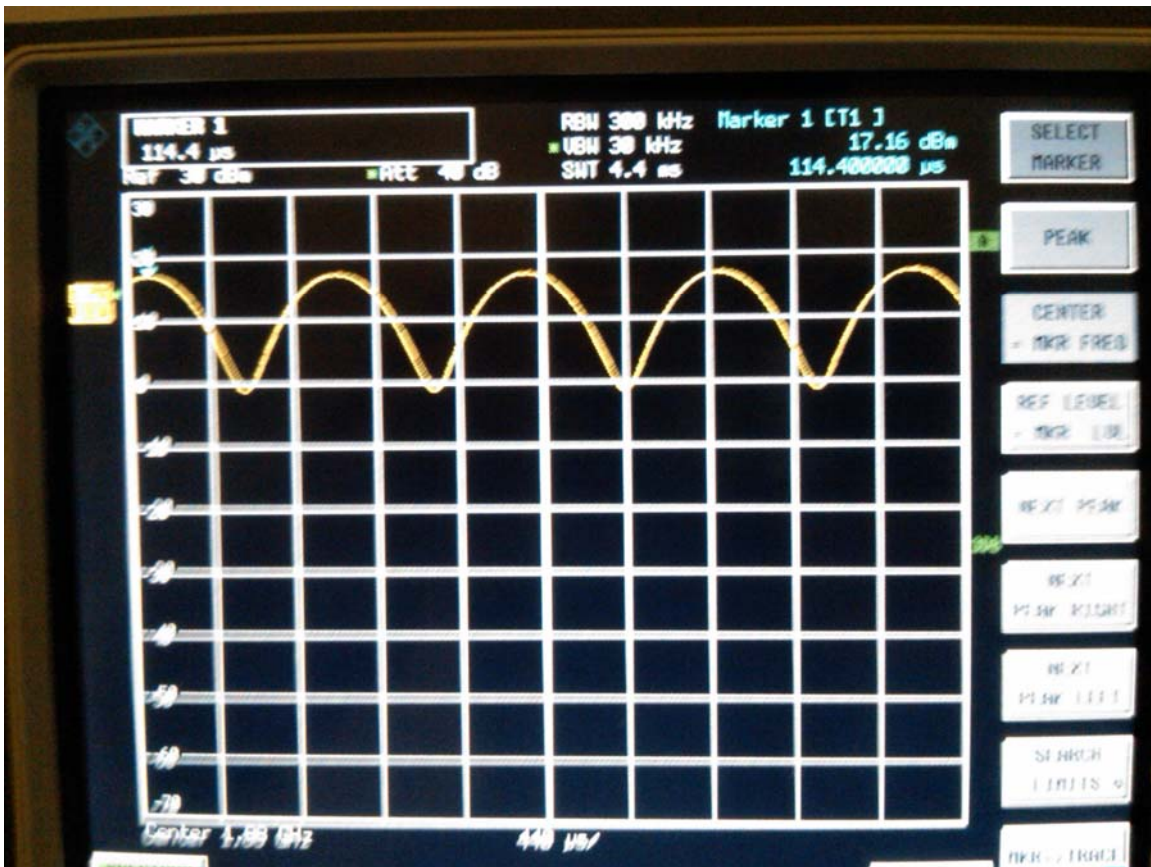
Report No  
**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW**  
**L6ARDP70UW**




**CW 1880 MHz**

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AM 80 % 1880 MHz

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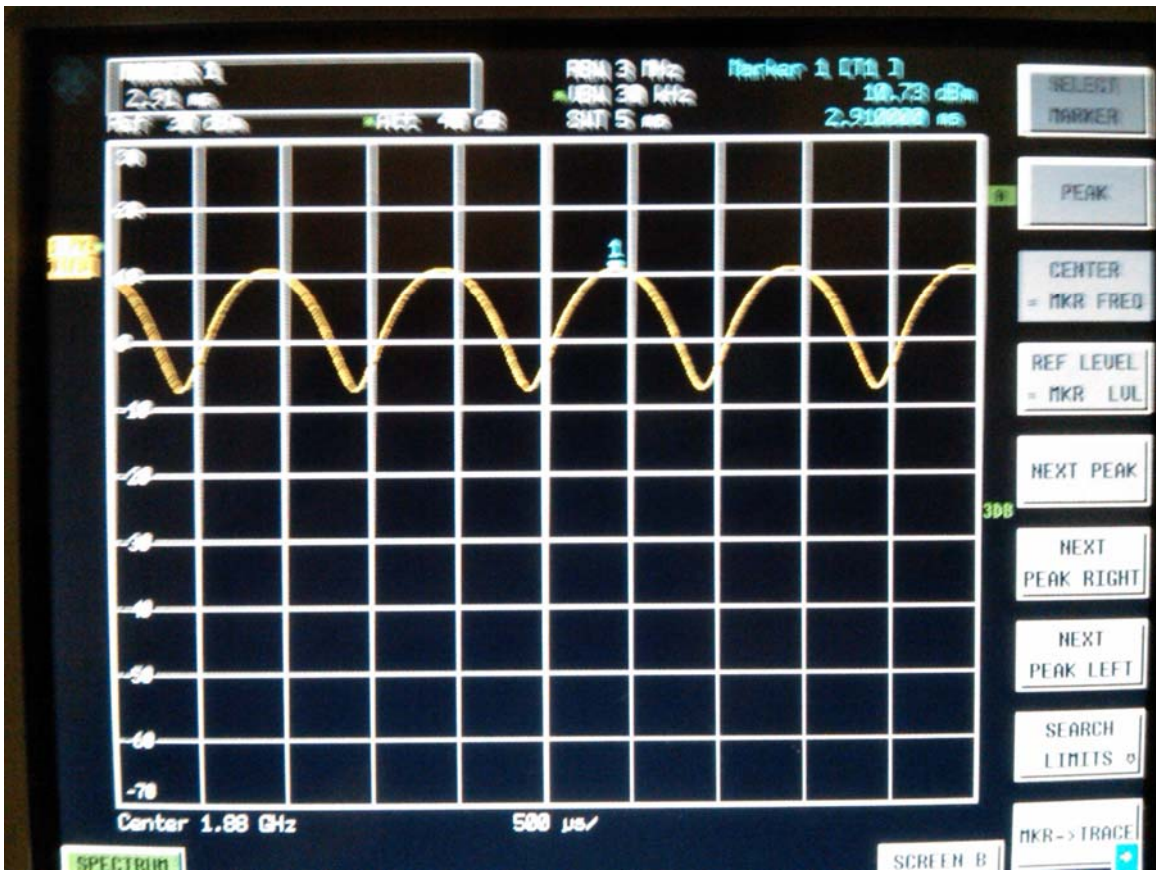
CDMA 1880 MHz

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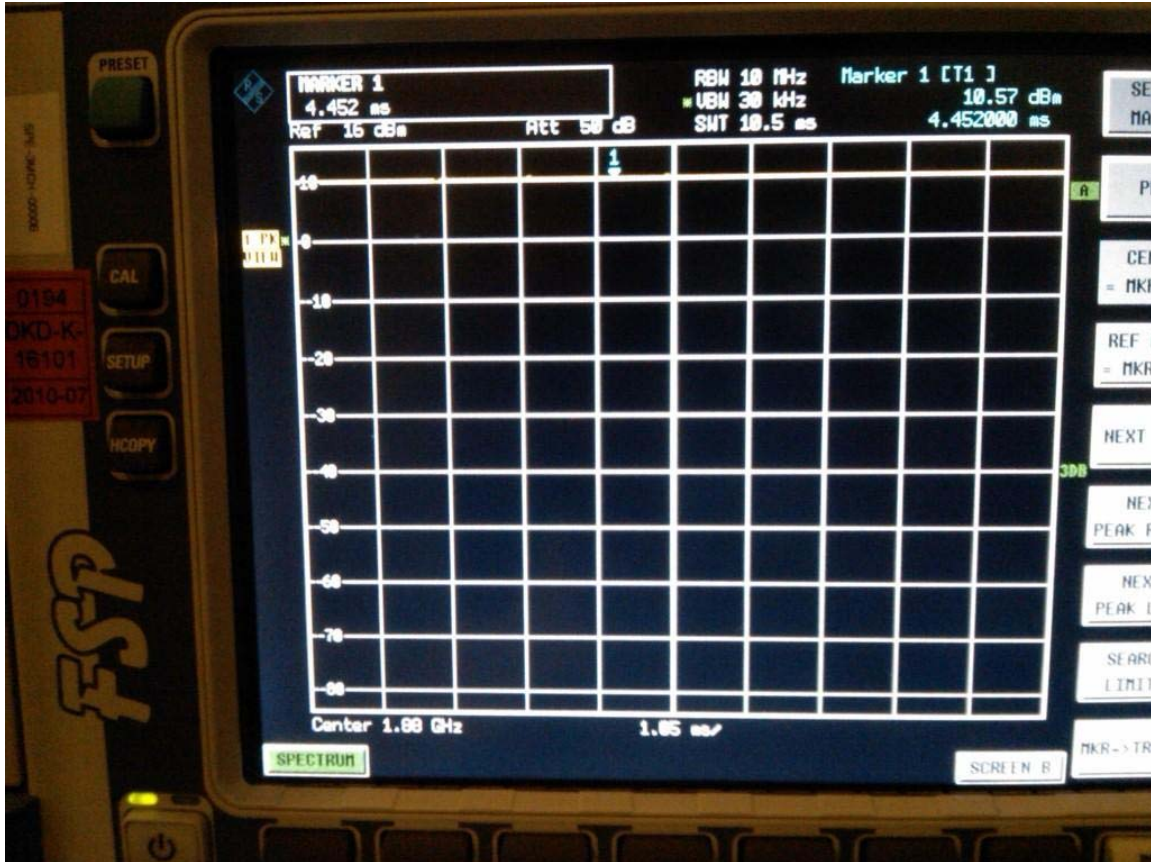
CW 1880 MHz

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDH71CW/RDP71UW</b>		Page <b>15 (286)</b>
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AM 80 % 1880 MHz

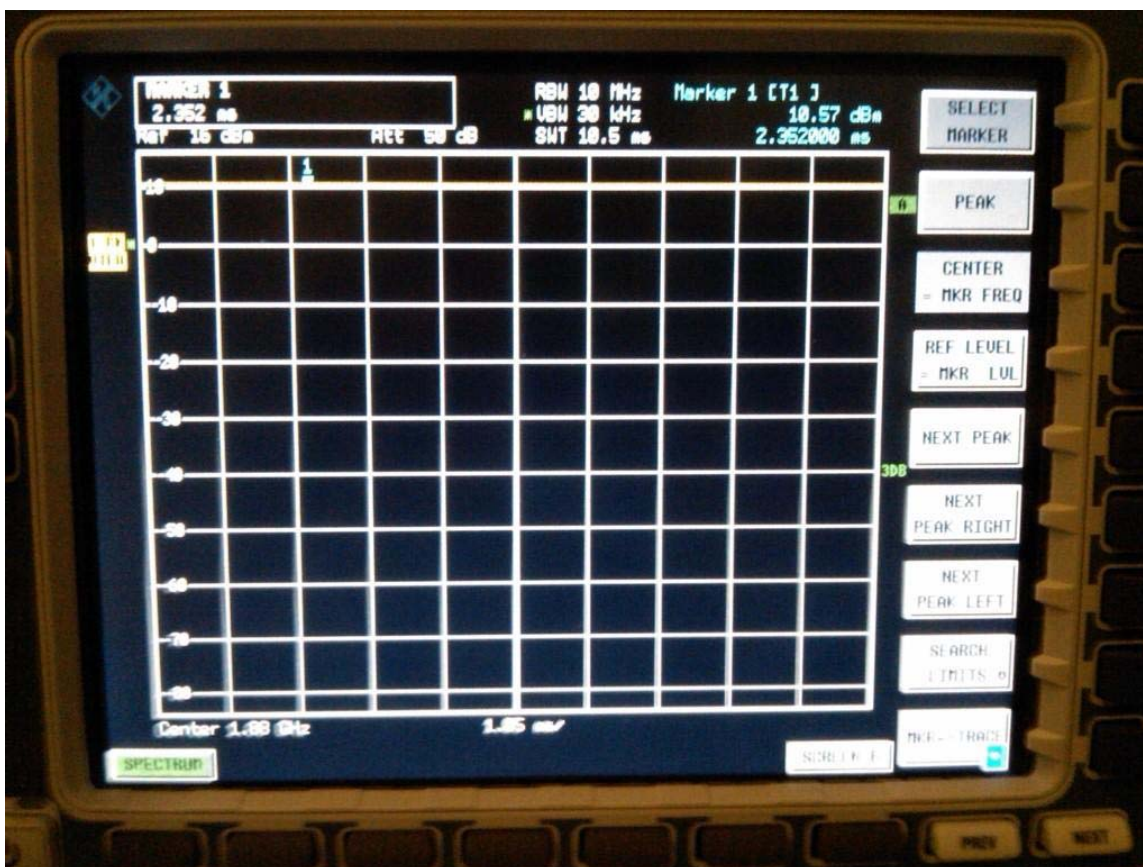
	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDH71CW/RDP71UW</b>		Page <b>16 (286)</b>
	Author Data <b>Daoud Attayi</b>	Dates of Test <b>Jan. 12-19, 2011</b> <b>Feb. 28-Mar. 01, 2011</b>	Report No <b>RTS-2605-1102-02A</b>




UMTS 1880 MHz

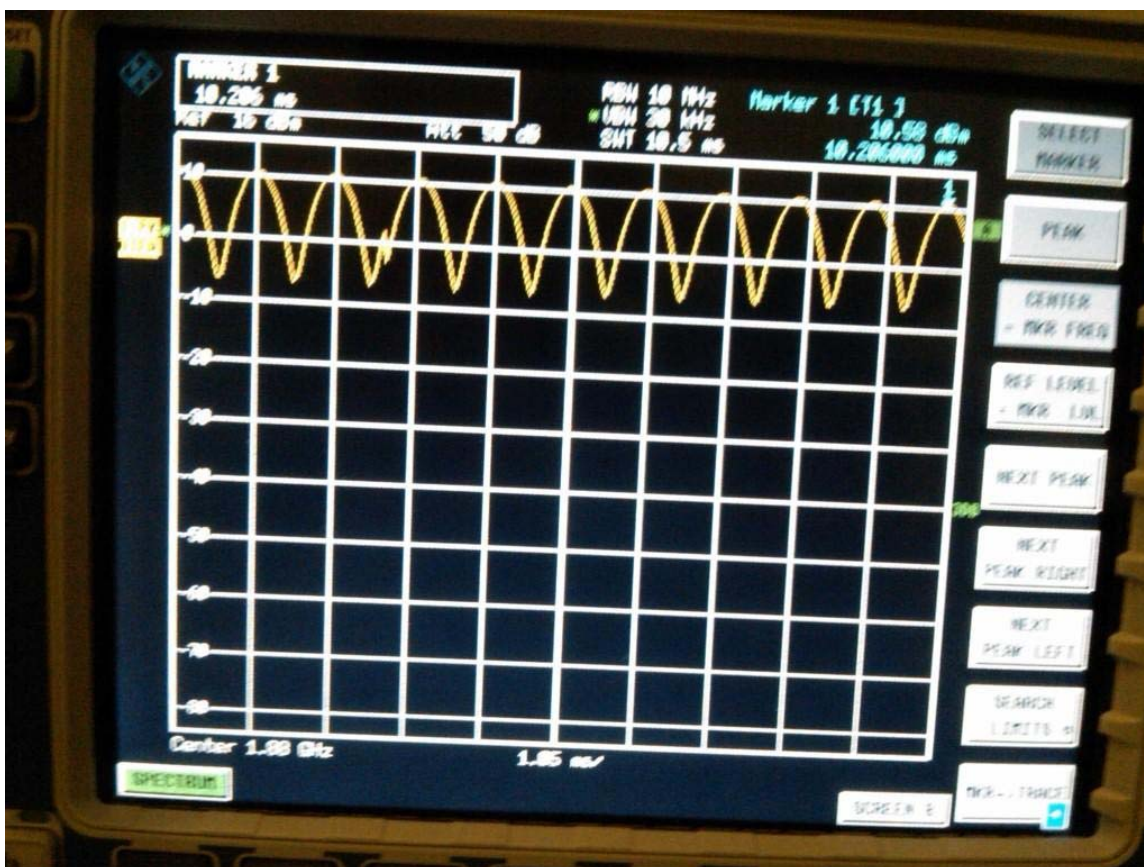


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CW 1880 MHz


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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: 1/12/2011 12:39:57 PM

Test Laboratory: RIM Testing Services

HAC\_E\_Dipole\_835MHz

**DUT: HAC-Dipole 835 MHz; Type: D835V3**

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - measurement distance from the probe sensor center to**

**CD835 Dipole = 10mm/Hearing Aid Compatibility Test (5x37x1):**

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 110.5 V/m; Power Drift = -0.014 dB

Maximum value of Total (measured) = 168.0 V/m

**E Scan - measurement distance from the probe sensor center to**

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**CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1):**

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

Maximum value of peak Total field = 169.7 V/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

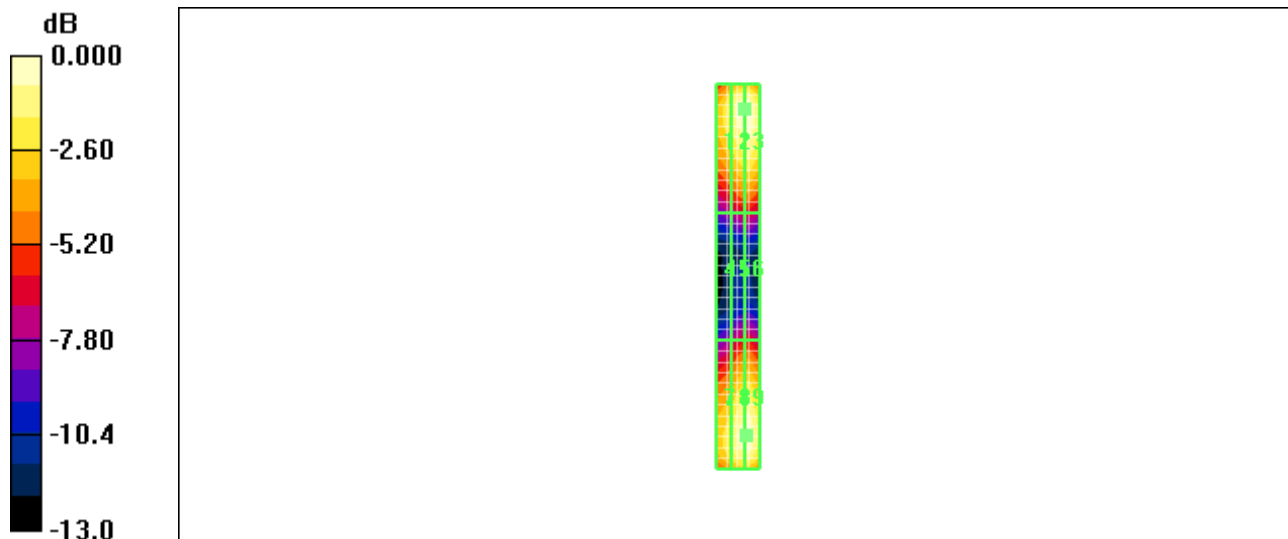
Reference Value = 110.5 V/m; Power Drift = -0.014 dB

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


Peak E-field in V/m

Grid 1	Grid 2	Grid 3
<b>143.5 M4</b>	<b>169.7 M4</b>	<b>169.7 M4</b>
Grid 4	Grid 5	Grid 6
<b>70.5 M4</b>	<b>84.9 M4</b>	<b>85.0 M4</b>
Grid 7	Grid 8	Grid 9
<b>137.9 M4</b>	<b>166.2 M4</b>	<b>166.5 M4</b>

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0 dB = 169.7V/m

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Date/Time: 1/19/2011 11:06:12 AM

Test Laboratory: RIM Testing Services

HAC\_E\_Dipole\_835MHz\_GSM\_mod

**DUT: HAC-Dipole 835 MHz; Type: D835V3**

Communication System: GSM 850; Frequency: 835 MHz; Duty Cycle: 1:8.3

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (5x37x1):**

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 39.7 V/m; Power Drift = -0.029 dB

Maximum value of Total (measured) = 54.5 V/m

**E Scan - measurement distance from the probe sensor center to**

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**CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1):**

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

Maximum value of peak Total field = 55.1 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 39.7 V/m; Power Drift = -0.029 dB

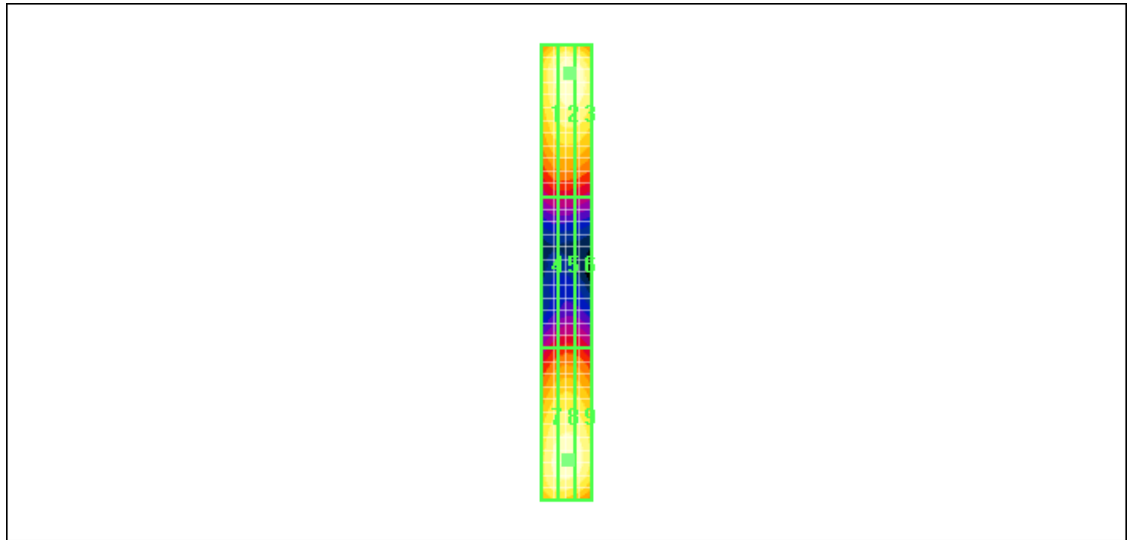
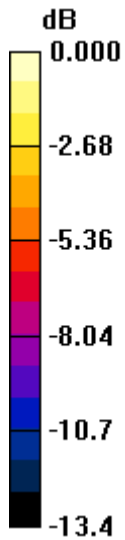
**Hearing Aid Near-Field Category: M4 (AWF -5 dB)**

Peak E-field in V/m


Grid 1 <b>52.0 M4</b>	Grid 2 <b>55.1 M4</b>	Grid 3 <b>54.5 M4</b>
Grid 4 <b>27.5 M4</b>	Grid 5 <b>28.6 M4</b>	Grid 6 <b>28.1 M4</b>
Grid 7 <b>52.3 M4</b>	Grid 8 <b>53.6 M4</b>	Grid 9 <b>53.2 M4</b>



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0 dB = 55.1V/m

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Date/Time: 1/19/2011 11:22:25 AM

Test Laboratory: RIM Testing Services

HAC\_E\_Dipole\_835MHz\_CW\_GSM\_mod

**DUT: HAC-Dipole 835 MHz; Type: D835V3**

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (5x37x1):**

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 115.7 V/m; Power Drift = 0.021 dB

Maximum value of Total (measured) = 158.6 V/m

**E Scan - measurement distance from the probe sensor center to**

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**CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1):**

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

Maximum value of peak Total field = 159.9 V/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

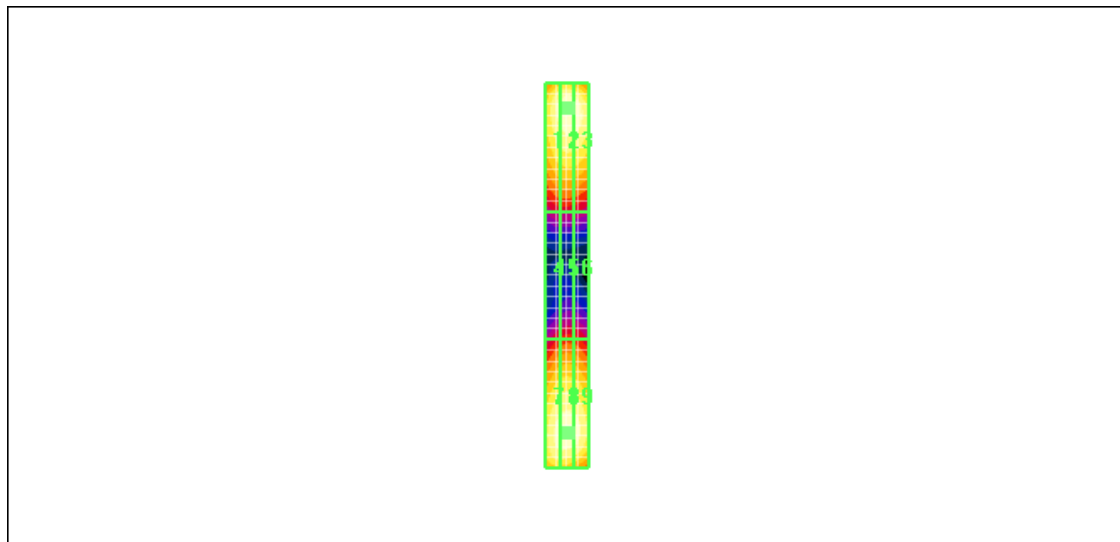
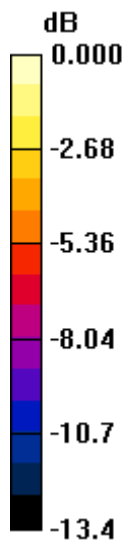
Reference Value = 115.7 V/m; Power Drift = 0.021 dB

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


Peak E-field in V/m

Grid 1 <b>151.8 M4</b>	Grid 2 <b>159.9 M4</b>	Grid 3 <b>157.4 M4</b>
Grid 4 <b>80.7 M4</b>	Grid 5 <b>83.6 M4</b>	Grid 6 <b>82.6 M4</b>
Grid 7 <b>151.7 M4</b>	Grid 8 <b>154.5 M4</b>	Grid 9 <b>153.0 M4</b>

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0 dB = 159.9V/m

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Date/Time: 1/19/2011 11:32:23 AM

Test Laboratory: RIM Testing Services

HAC\_E\_Dipole\_835MHz\_AM80%\_GSM\_mod

**DUT: HAC-Dipole 835 MHz; Type: D835V3**

Communication System: AM 80%; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm 2/Hearing Aid Compatibility Test (5x5x1):**

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 72.4 V/m; Power Drift = 0.041 dB

Maximum value of Total (measured) = 80.7 V/m

**E Scan - measurement distance from the probe sensor center to**

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**CD835 Dipole = 10mm 2/Hearing Aid Compatibility Test (41x41x1):**

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

Maximum value of peak Total field = 81.1 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 72.4 V/m; Power Drift = 0.041 dB

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

Peak E-field in V/m

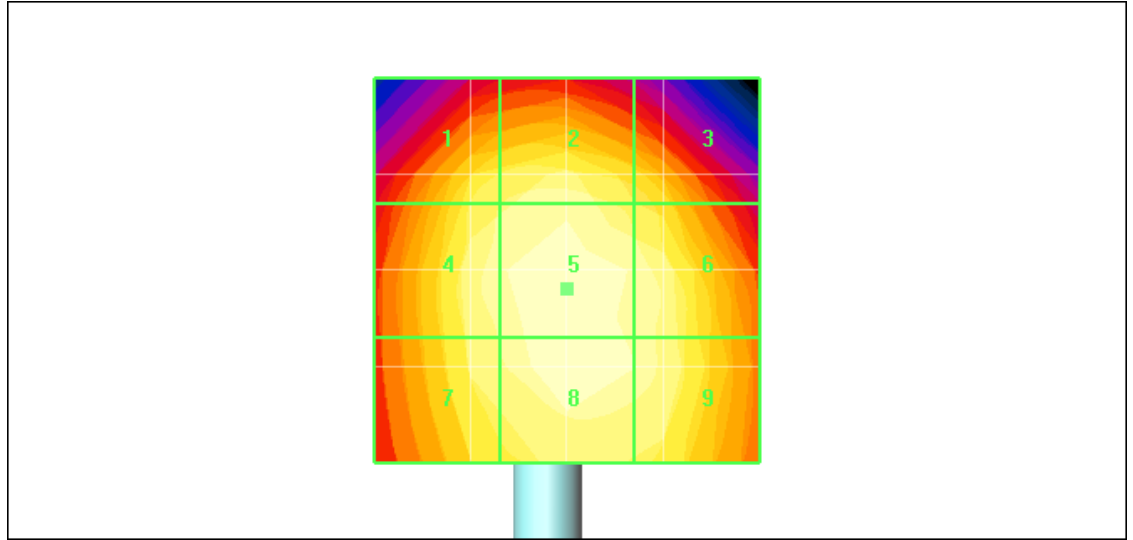
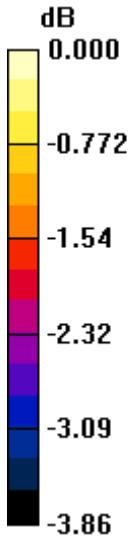
Grid 1 <b>78.7 M4</b>	Grid 2 <b>80.0 M4</b>	Grid 3 <b>77.9 M4</b>
Grid 4 <b>79.8 M4</b>	Grid 5 <b>81.1 M4</b>	Grid 6 <b>80.3 M4</b>
Grid 7 <b>78.8 M4</b>	Grid 8 <b>80.3 M4</b>	Grid 9 <b>79.7 M4</b>

Author Data  
**Daoud Attayi**


Dates of Test  
**Jan. 12-19, 2011**  
**Feb. 28-Mar. 01, 2011**

Report No  
**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW**  
**L6ARDP70UW**



0 dB = 81.1V/m

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Date/Time: 1/19/2011 11:14:50 AM

Test Laboratory: RIM Testing Services

HAC\_E\_Dipole\_835MHz\_CDMA\_mod

**DUT: HAC-Dipole 835 MHz; Type: D835V3**

Communication System: CDMA 800; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm 2/Hearing Aid Compatibility Test (5x5x1):**

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

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 43.0 V/m; Power Drift = -0.052 dB

Maximum value of Total (measured) = 48.4 V/m

**E Scan - measurement distance from the probe sensor center to**



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**CD835 Dipole = 10mm 2/Hearing Aid Compatibility Test (41x41x1):**

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

Maximum value of peak Total field = 48.7 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 43.0 V/m; Power Drift = -0.052 dB

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

Peak E-field in V/m

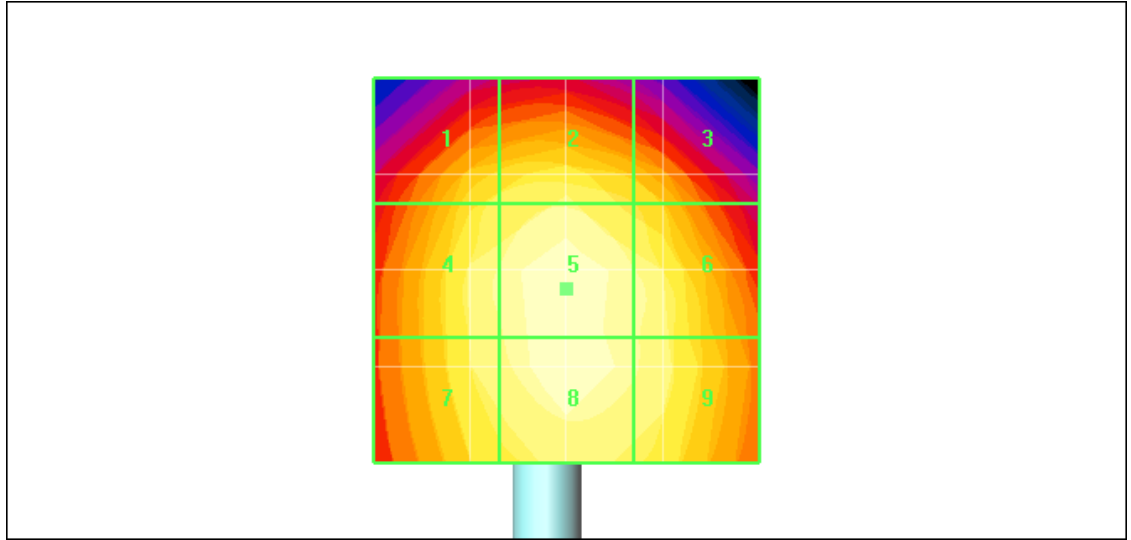
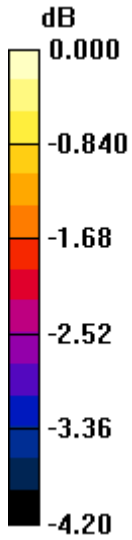
Grid 1 <b>46.0 M4</b>	Grid 2 <b>47.0 M4</b>	Grid 3 <b>45.7 M4</b>
Grid 4 <b>47.4 M4</b>	Grid 5 <b>48.7 M4</b>	Grid 6 <b>47.6 M4</b>
Grid 7 <b>47.0 M4</b>	Grid 8 <b>48.2 M4</b>	Grid 9 <b>47.3 M4</b>

Author Data  
**Daoud Attayi**


Dates of Test  
**Jan. 12-19, 2011  
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FCC ID  
**L6ARDH70CW  
 L6ARDP70UW**



0 dB = 48.7V/m

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Date/Time: 1/19/2011 11:36:21 AM

Test Laboratory: RIM Testing Services

HAC\_E\_Dipole\_835MHz\_CW\_CDMA\_mod

**DUT: HAC-Dipole 835 MHz; Type: D835V3**

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm 2/Hearing Aid Compatibility Test (5x5x1):**

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 44.6 V/m; Power Drift = -0.104 dB

Maximum value of Total (measured) = 49.0 V/m

**E Scan - measurement distance from the probe sensor center to**

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**CD835 Dipole = 10mm 2/Hearing Aid Compatibility Test (41x41x1):**

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

Maximum value of peak Total field = 49.2 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 44.6 V/m; Power Drift = -0.104 dB

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

Peak E-field in V/m

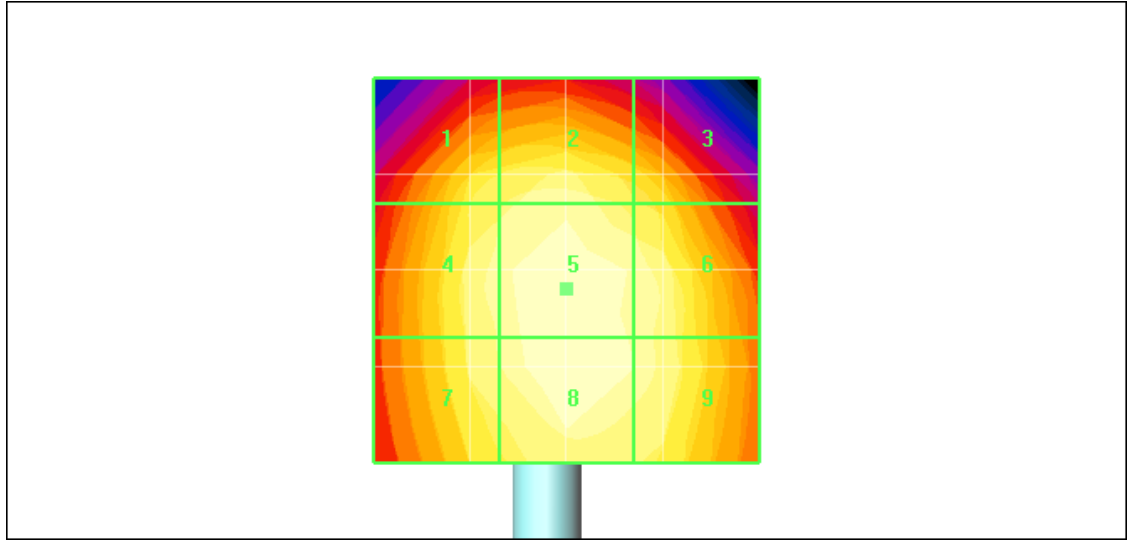
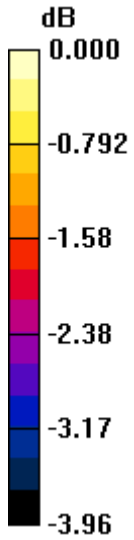
Grid 1 <b>47.6 M4</b>	Grid 2 <b>48.5 M4</b>	Grid 3 <b>47.3 M4</b>
Grid 4 <b>48.3 M4</b>	Grid 5 <b>49.2 M4</b>	Grid 6 <b>48.7 M4</b>
Grid 7 <b>47.8 M4</b>	Grid 8 <b>48.8 M4</b>	Grid 9 <b>48.4 M4</b>

Author Data  
**Daoud Attayi**


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**Jan. 12-19, 2011**  
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**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW**  
**L6ARDP70UW**



0 dB = 49.2V/m

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Date/Time: 1/19/2011 11:41:20 AM

Test Laboratory: RIM Testing Services

HAC\_E\_Dipole\_835MHz\_AM80%\_CDMA

**DUT: HAC-Dipole 835 MHz; Type: D835V3**

Communication System: AM 80%; Frequency: 835 MHz;Duty Cycle: 1:1

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm 2/Hearing Aid Compatibility Test (5x5x1):**

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 28.3 V/m; Power Drift = -0.092 dB

Maximum value of Total (measured) = 31.1 V/m

**E Scan - measurement distance from the probe sensor center to**

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**CD835 Dipole = 10mm 2/Hearing Aid Compatibility Test (41x41x1):**

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

Maximum value of peak Total field = 31.3 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 28.3 V/m; Power Drift = -0.092 dB

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

Peak E-field in V/m

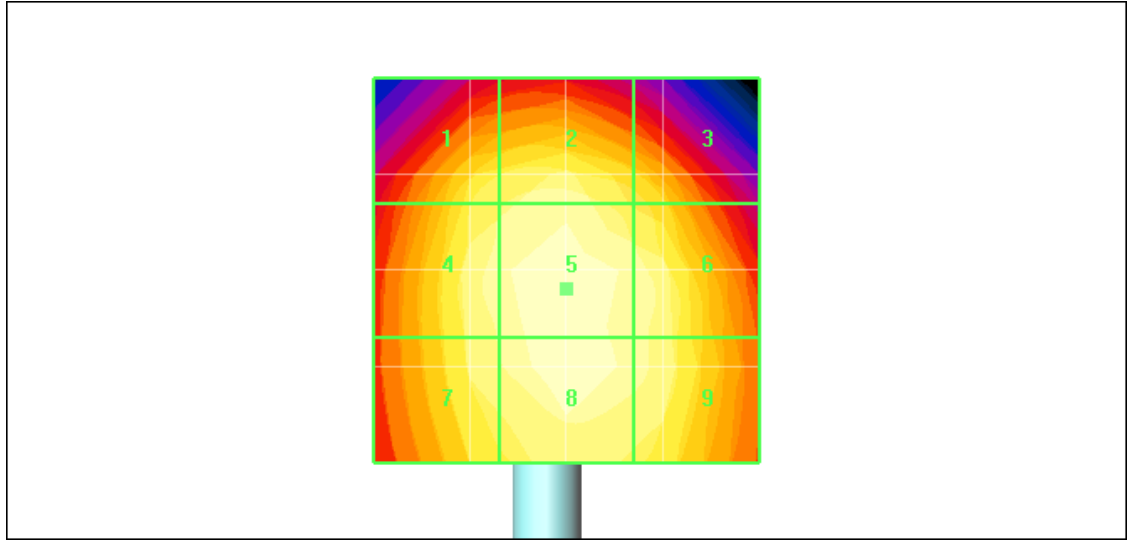
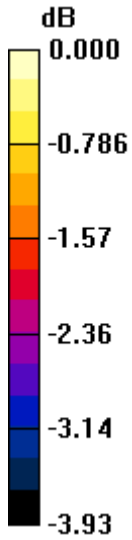
Grid 1 <b>30.3 M4</b>	Grid 2 <b>30.9 M4</b>	Grid 3 <b>29.9 M4</b>
Grid 4 <b>30.8 M4</b>	Grid 5 <b>31.3 M4</b>	Grid 6 <b>30.9 M4</b>
Grid 7 <b>30.4 M4</b>	Grid 8 <b>30.9 M4</b>	Grid 9 <b>30.7 M4</b>

Author Data  
**Daoud Attayi**

Dates of Test  
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Report No  
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FCC ID  
**L6ARDH70CW  
 L6ARDP70UW**



0 dB = 31.3V/m



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Date/Time: 1/12/2011 2:35:41 PM

Test Laboratory: RIM Testing Services

HAC\_E\_Dipole\_1880MHz

**DUT: HAC Dipole 1880 MHz; Type: CD1880V3**

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

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (5x19x1):**

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 128.4 V/m; Power Drift = -0.030 dB

Maximum value of Total (measured) = 126.3 V/m

**E Scan - measurement distance from the probe sensor center to**

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**CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):**

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

Maximum value of peak Total field = 127.8 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 128.4 V/m; Power Drift = -0.030 dB

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

Peak E-field in V/m

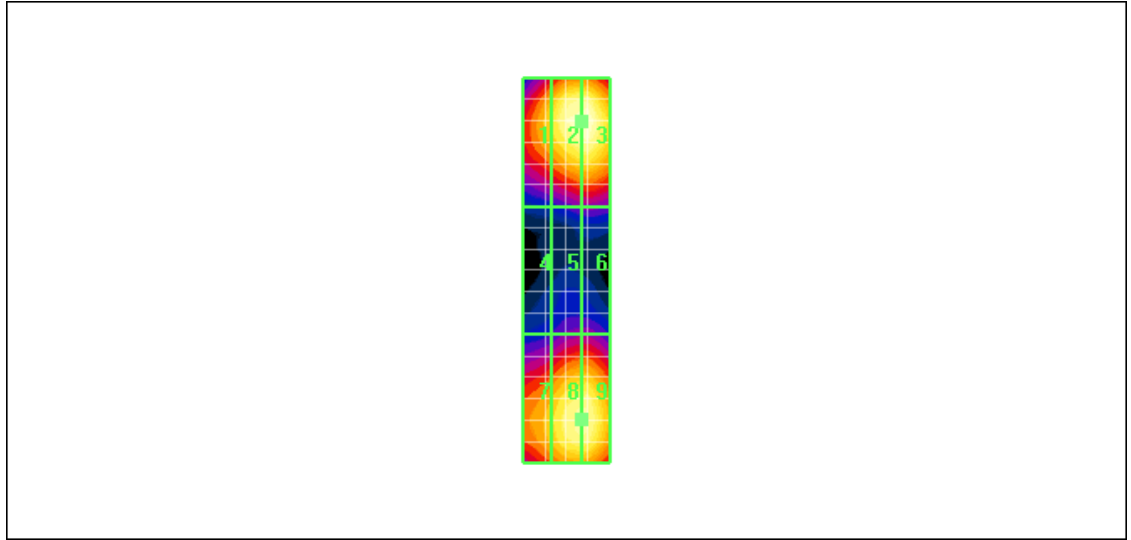
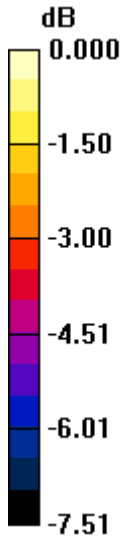
Grid 1 <b>109.1 M3</b>	Grid 2 <b>127.8 M2</b>	Grid 3 <b>127.8 M2</b>
Grid 4 <b>68.3 M3</b>	Grid 5 <b>75.8 M3</b>	Grid 6 <b>75.8 M3</b>
Grid 7 <b>106.5 M3</b>	Grid 8 <b>123.0 M2</b>	Grid 9 <b>123.0 M2</b>

Author Data  
**Daoud Attayi**


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FCC ID  
**L6ARDH70CW  
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0 dB = 127.8V/m

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Date/Time: 1/19/2011 11:49:05 AM

Test Laboratory: RIM Testing Services

HAC\_E\_Dipole\_1880MHz\_GSM\_mod

**DUT: HAC Dipole 1880 MHz; Type: CD1880V3**

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (5x19x1):**

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 30.3 V/m; Power Drift = -0.038 dB

Maximum value of Total (measured) = 29.7 V/m

**E Scan - measurement distance from the probe sensor center to**

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**CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):**

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

Maximum value of peak Total field = 30.2 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 30.3 V/m; Power Drift = -0.038 dB

**Hearing Aid Near-Field Category: M4 (AWF -5 dB)**

Peak E-field in V/m

Grid 1 <b>28.7 M4</b>	Grid 2 <b>30.2 M4</b>	Grid 3 <b>29.5 M4</b>
Grid 4 <b>19.0 M4</b>	Grid 5 <b>19.9 M4</b>	Grid 6 <b>19.4 M4</b>
Grid 7 <b>29.6 M4</b>	Grid 8 <b>30.0 M4</b>	Grid 9 <b>29.0 M4</b>



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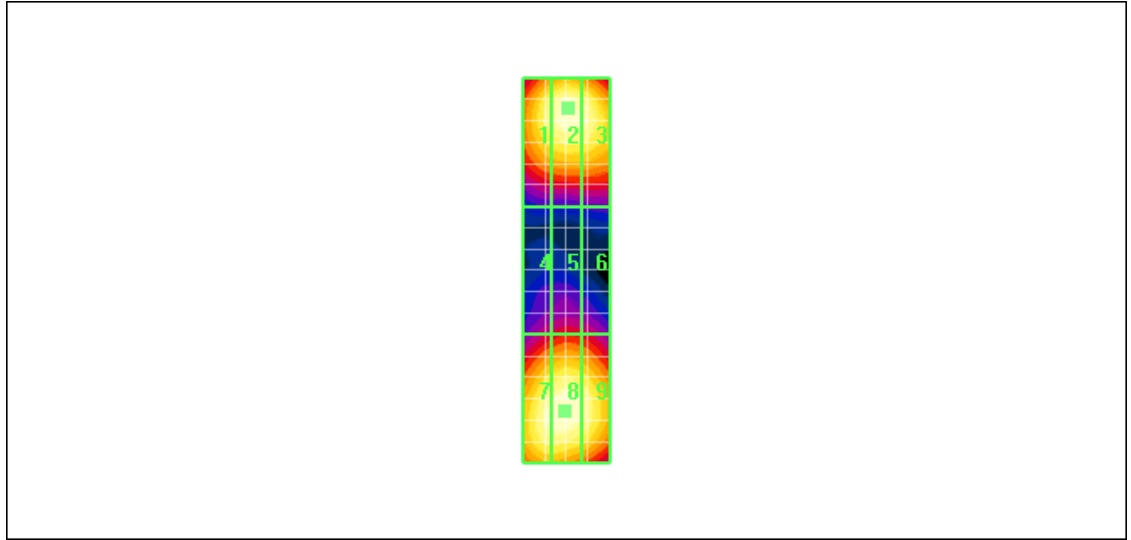
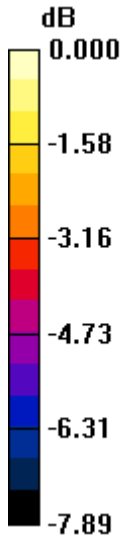
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Author Data  
**Daoud Attayi**


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FCC ID  
**L6ARDH70CW  
L6ARDP70UW**



0 dB = 30.2V/m

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Date/Time: 1/19/2011 12:06:18 PM

Test Laboratory: RIM Testing Services

HAC\_E\_Dipole\_1880MHz\_CW\_GSM\_mod

**DUT: HAC Dipole 1880 MHz; Type: CD1880V3**

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

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (5x19x1):**

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 86.9 V/m; Power Drift = 0.001 dB

Maximum value of Total (measured) = 86.8 V/m

**E Scan - measurement distance from the probe sensor center to**

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**CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):**

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

Maximum value of peak Total field = 87.6 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 86.9 V/m; Power Drift = 0.001 dB

**Hearing Aid Near-Field Category: M3 (AWF 0 dB)**

Peak E-field in V/m

Grid 1 <b>83.8 M3</b>	Grid 2 <b>87.6 M3</b>	Grid 3 <b>85.3 M3</b>
Grid 4 <b>54.9 M4</b>	Grid 5 <b>56.9 M4</b>	Grid 6 <b>55.8 M4</b>
Grid 7 <b>84.5 M3</b>	Grid 8 <b>85.4 M3</b>	Grid 9 <b>83.1 M3</b>





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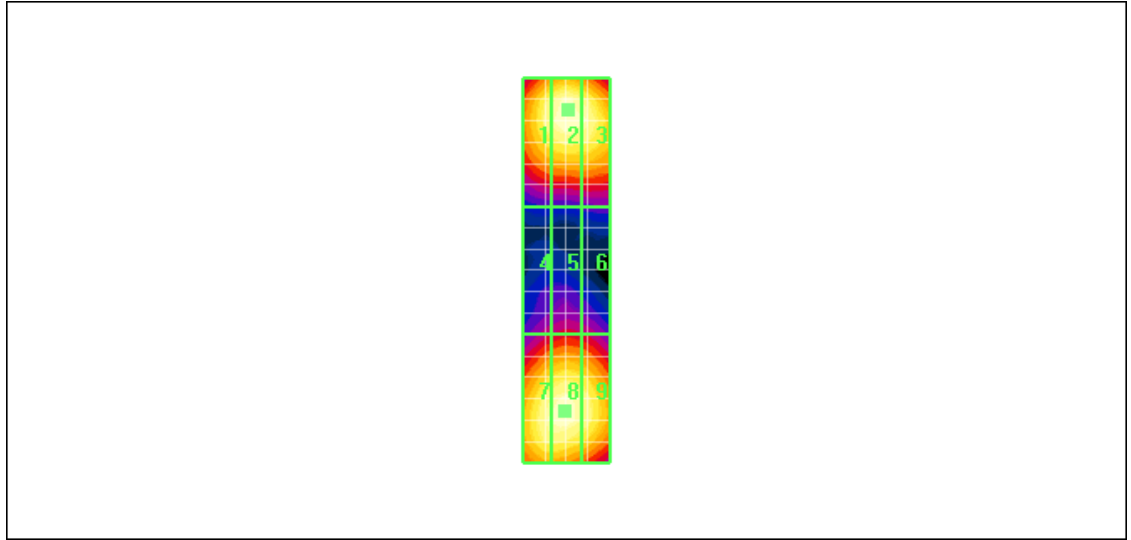
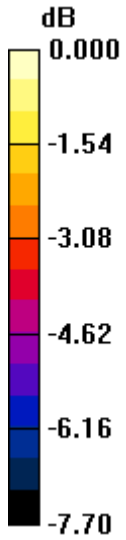
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Author Data  
**Daoud Attayi**


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**L6ARDH70CW  
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0 dB = 87.6V/m

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Date/Time: 1/19/2011 12:14:44 PM

Test Laboratory: RIM Testing Services

HAC\_E\_Dipole\_1880MHz\_AM80%\_GSM

**DUT: HAC Dipole 1880 MHz; Type: CD1880V3**

Communication System: AM 80%; Frequency: 1880 MHz;Duty Cycle: 1:1

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - measurement distance from the probe sensor center to**

**CD1880 Dipole = 10mm 2/Hearing Aid Compatibility Test (5x5x1):**

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 55.5 V/m; Power Drift = 0.016 dB

Maximum value of Total (measured) = 44.8 V/m

**E Scan - measurement distance from the probe sensor center to**

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**CD1880 Dipole = 10mm 2/Hearing Aid Compatibility Test (41x41x1):**

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

Maximum value of peak Total field = 45.2 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 55.5 V/m; Power Drift = 0.016 dB

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

Peak E-field in V/m

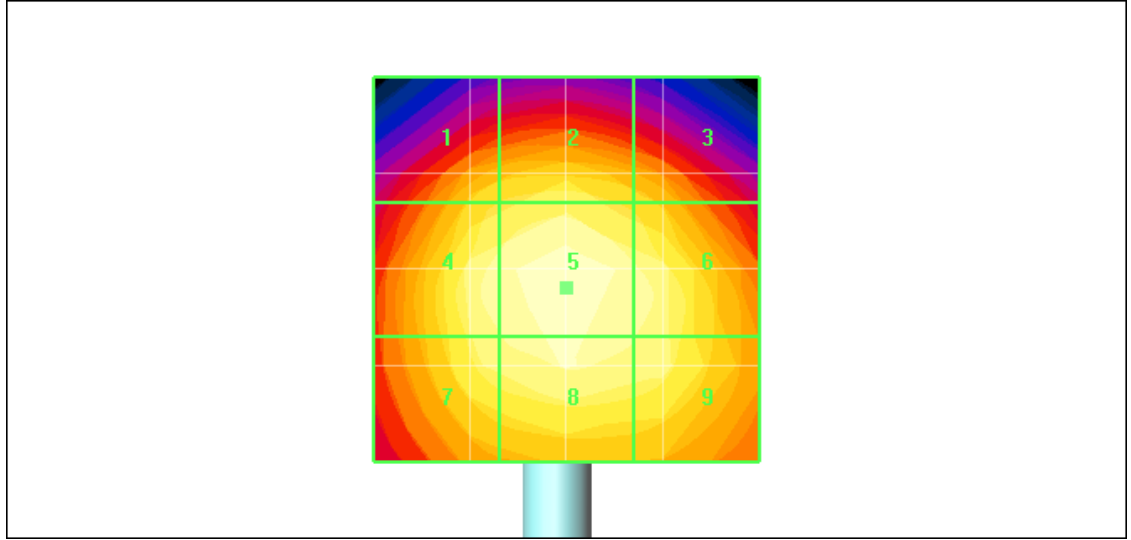
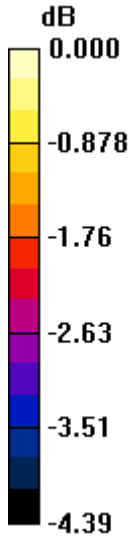
Grid 1 <b>42.3 M4</b>	Grid 2 <b>43.1 M4</b>	Grid 3 <b>41.8 M4</b>
Grid 4 <b>44.4 M4</b>	Grid 5 <b>45.2 M4</b>	Grid 6 <b>44.3 M4</b>
Grid 7 <b>43.6 M4</b>	Grid 8 <b>44.4 M4</b>	Grid 9 <b>43.8 M4</b>

Author Data  
**Daoud Attayi**


Dates of Test  
**Jan. 12-19, 2011**  
**Feb. 28-Mar. 01, 2011**

Report No  
**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW**  
**L6ARDP70UW**



0 dB = 45.2V/m

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Date/Time: 1/19/2011 12:29:07 PM

Test Laboratory: RIM Testing Services

HAC\_E\_Dipole\_1880MHz\_CDMA\_mod

**DUT: HAC Dipole 1880 MHz; Type: CD1880V3**

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (5x19x1):**

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 43.0 V/m; Power Drift = -0.010 dB

Maximum value of Total (measured) = 41.9 V/m

**E Scan - measurement distance from the probe sensor center to**

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**CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):**

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

Maximum value of peak Total field = 42.2 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 43.0 V/m; Power Drift = -0.010 dB

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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
<b>39.9 M4</b>	<b>41.6 M4</b>	<b>40.7 M4</b>
Grid 4	Grid 5	Grid 6
<b>26.7 M4</b>	<b>27.8 M4</b>	<b>27.2 M4</b>
Grid 7	Grid 8	Grid 9
<b>41.5 M4</b>	<b>42.2 M4</b>	<b>41.0 M4</b>

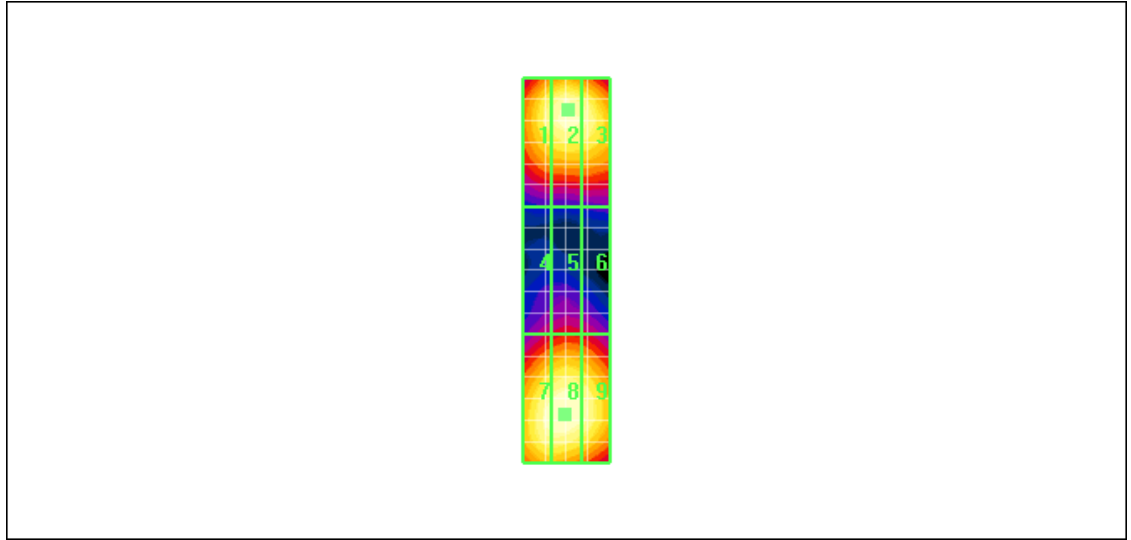
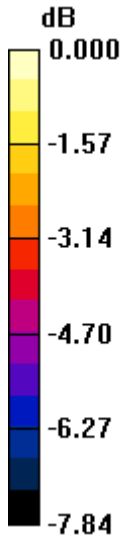


Author Data  
**Daoud Attayi**


Dates of Test  
**Jan. 12-19, 2011  
Feb. 28-Mar. 01, 2011**

Report No  
**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW  
L6ARDP70UW**



0 dB = 42.2V/m

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Date/Time: 1/19/2011 1:40:16 PM

Test Laboratory: RIM Testing Services

HAC\_E\_Dipole\_1880MHz\_CW\_CDMA\_mod

**DUT: HAC Dipole 1880 MHz; Type: CD1880V3**

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

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (5x19x1):**

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

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 42.2 V/m; Power Drift = -0.002 dB

Maximum value of Total (measured) = 41.8 V/m

**E Scan - measurement distance from the probe sensor center to**



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**CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):**

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

Maximum value of peak Total field = 42.1 V/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

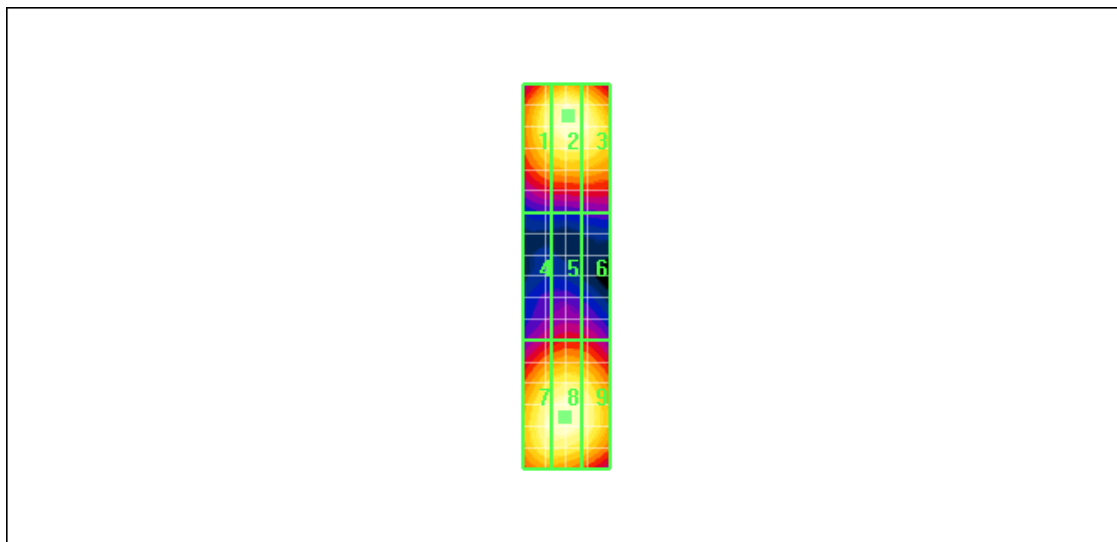
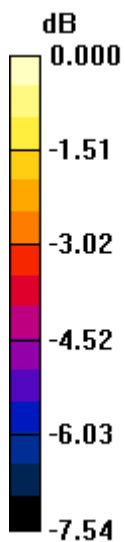
Reference Value = 42.2 V/m; Power Drift = -0.002 dB

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


Peak E-field in V/m

Grid 1 <b>40.1 M4</b>	Grid 2 <b>42.1 M4</b>	Grid 3 <b>41.2 M4</b>
Grid 4 <b>27.2 M4</b>	Grid 5 <b>28.2 M4</b>	Grid 6 <b>27.9 M4</b>
Grid 7 <b>41.1 M4</b>	Grid 8 <b>41.6 M4</b>	Grid 9 <b>40.8 M4</b>

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0 dB = 42.1V/m

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Date/Time: 1/19/2011 1:45:51 PM

Test Laboratory: RIM Testing Services

HAC\_E\_Dipole\_1880MHz\_AM80%\_CDMA

**DUT: HAC Dipole 1880 MHz; Type: CD1880V3**

Communication System: AM 80%; Frequency: 1880 MHz;Duty Cycle: 1:1

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - measurement distance from the probe sensor center to**

**CD1880 Dipole = 10mm 2/Hearing Aid Compatibility Test (5x5x1):**

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 27.0 V/m; Power Drift = 0.044 dB

Maximum value of Total (measured) = 21.7 V/m

**E Scan - measurement distance from the probe sensor center to**

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**CD1880 Dipole = 10mm 2/Hearing Aid Compatibility Test (41x41x1):**

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

Maximum value of peak Total field = 22.0 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 27.0 V/m; Power Drift = 0.044 dB

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

Peak E-field in V/m

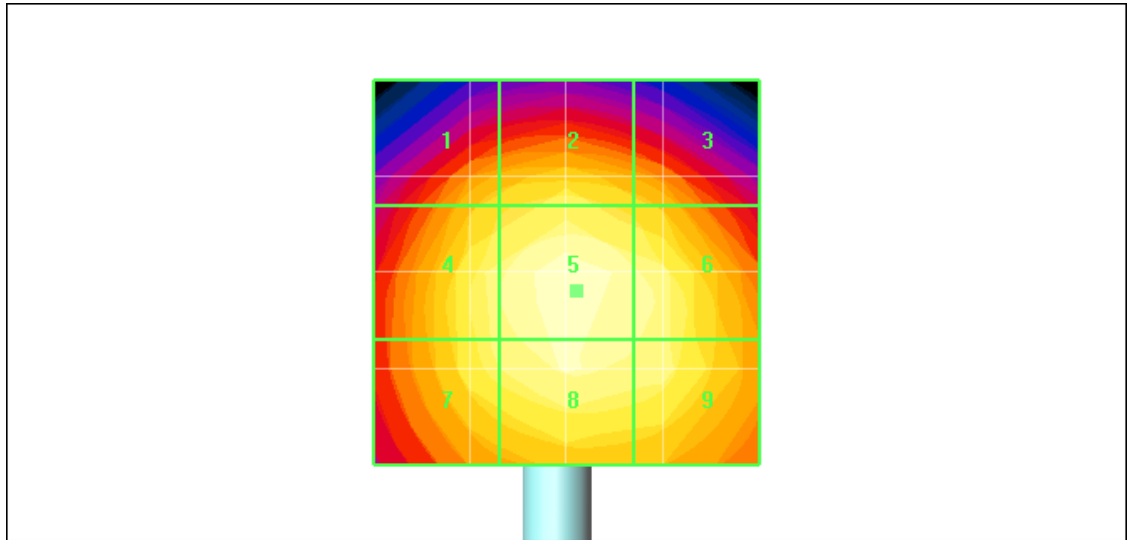
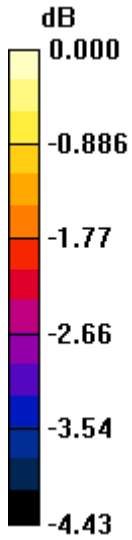
Grid 1 <b>20.4 M4</b>	Grid 2 <b>20.9 M4</b>	Grid 3 <b>20.3 M4</b>
Grid 4 <b>21.3 M4</b>	Grid 5 <b>22.0 M4</b>	Grid 6 <b>21.5 M4</b>
Grid 7 <b>21.0 M4</b>	Grid 8 <b>21.6 M4</b>	Grid 9 <b>21.3 M4</b>

Author Data  
**Daoud Attayi**


Dates of Test  
**Jan. 12-19, 2011  
Feb. 28-Mar. 01, 2011**

Report No  
**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW  
L6ARDP70UW**



0 dB = 22.0V/m

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Date/Time: 1/12/2011 3:55:25 PM

Test Laboratory: RIM Testing Services

HAC\_H\_Dipole\_835MHz

**DUT: HAC-Dipole 835 MHz; Type: D835V3**

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (5x11x1):**

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.497 A/m; Power Drift = -0.014 dB

Maximum value of Total (measured) = 0.466 A/m

**H Scan - measurement distance from the probe sensor center to**

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**CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x101x1):**

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

Maximum value of peak Total field = 0.467 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.497 A/m; Power Drift = -0.014 dB

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

Peak H-field in A/m

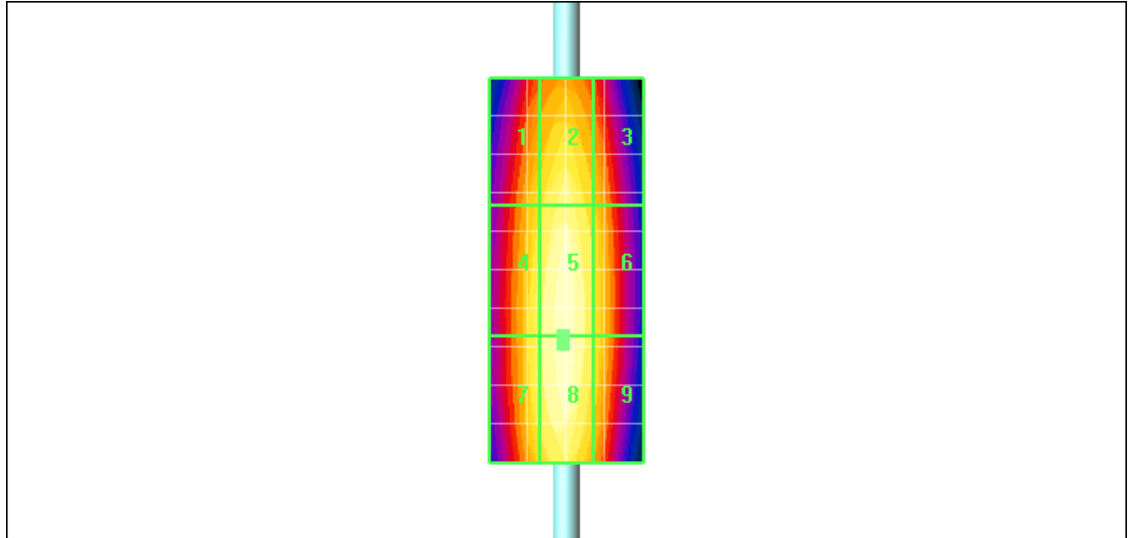
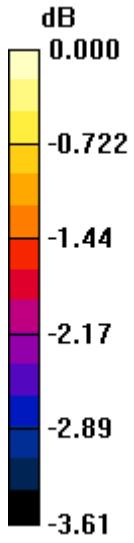
Grid 1 <b>0.437 M4</b>	Grid 2 <b>0.450 M4</b>	Grid 3 <b>0.432 M4</b>
Grid 4 <b>0.450 M4</b>	Grid 5 <b>0.467 M4</b>	Grid 6 <b>0.444 M4</b>
Grid 7 <b>0.450 M4</b>	Grid 8 <b>0.467 M4</b>	Grid 9 <b>0.443 M4</b>

Author Data  
**Daoud Attayi**

Dates of Test  
**Jan. 12-19, 2011**  
**Feb. 28-Mar. 01, 2011**


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**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW**  
**L6ARDP70UW**



0 dB = 0.467A/m



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Date/Time: 1/19/2011 3:04:45 PM

Test Laboratory: RIM Testing Services

HAC\_H\_Dipole\_835MHz\_GSM\_mod

**DUT: HAC-Dipole 835 MHz; Type: D835V3**

Communication System: GSM 850; Frequency: 835 MHz; Duty Cycle: 1:8.3

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

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (5x11x1):**

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.174 A/m; Power Drift = -0.012 dB

Maximum value of Total (measured) = 0.164 A/m

**H Scan - measurement distance from the probe sensor center to**

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**CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x101x1):**

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

Maximum value of peak Total field = 0.164 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.174 A/m; Power Drift = -0.012 dB

**Hearing Aid Near-Field Category: M4 (AWF -5 dB)**

Peak H-field in A/m

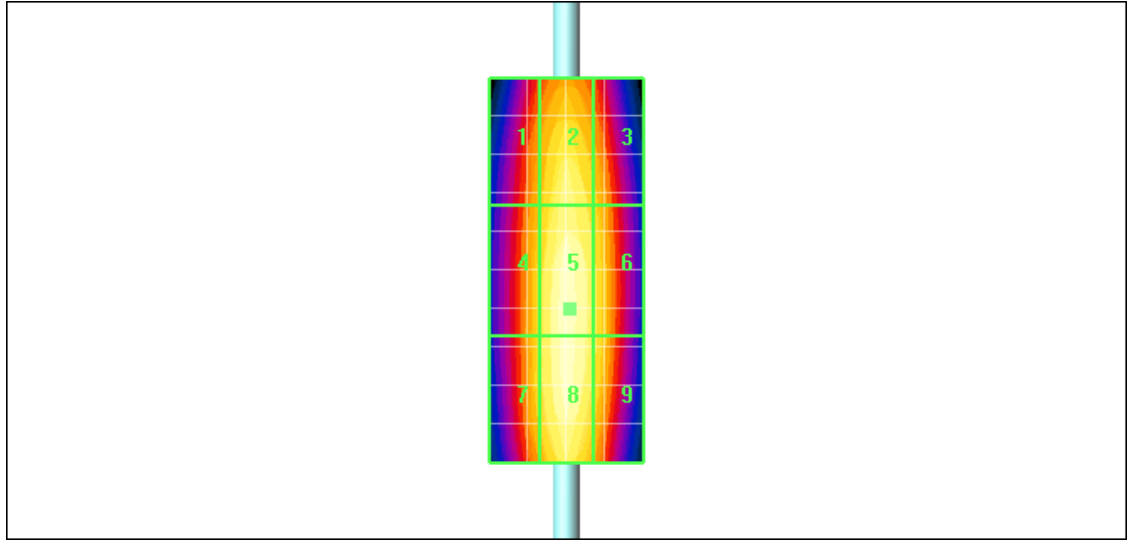
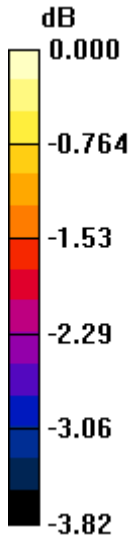
Grid 1 <b>0.148 M4</b>	Grid 2 <b>0.158 M4</b>	Grid 3 <b>0.152 M4</b>
Grid 4 <b>0.153 M4</b>	Grid 5 <b>0.164 M4</b>	Grid 6 <b>0.157 M4</b>
Grid 7 <b>0.153 M4</b>	Grid 8 <b>0.163 M4</b>	Grid 9 <b>0.157 M4</b>

Author Data  
**Daoud Attayi**


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**Jan. 12-19, 2011**  
**Feb. 28-Mar. 01, 2011**

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**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW**  
**L6ARDP70UW**



0 dB = 0.164A/m

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Date/Time: 1/19/2011 3:29:53 PM

Test Laboratory: RIM Testing Services

HAC\_H\_Dipole\_835MHz\_CW\_GSM\_mod

**DUT: HAC-Dipole 835 MHz; Type: D835V3**

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (5x11x1):**

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.483 A/m; Power Drift = -0.026 dB

Maximum value of Total (measured) = 0.458 A/m

**H Scan - measurement distance from the probe sensor center to**

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**CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x101x1):**

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

Maximum value of peak Total field = 0.458 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.483 A/m; Power Drift = -0.026 dB

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

Peak H-field in A/m

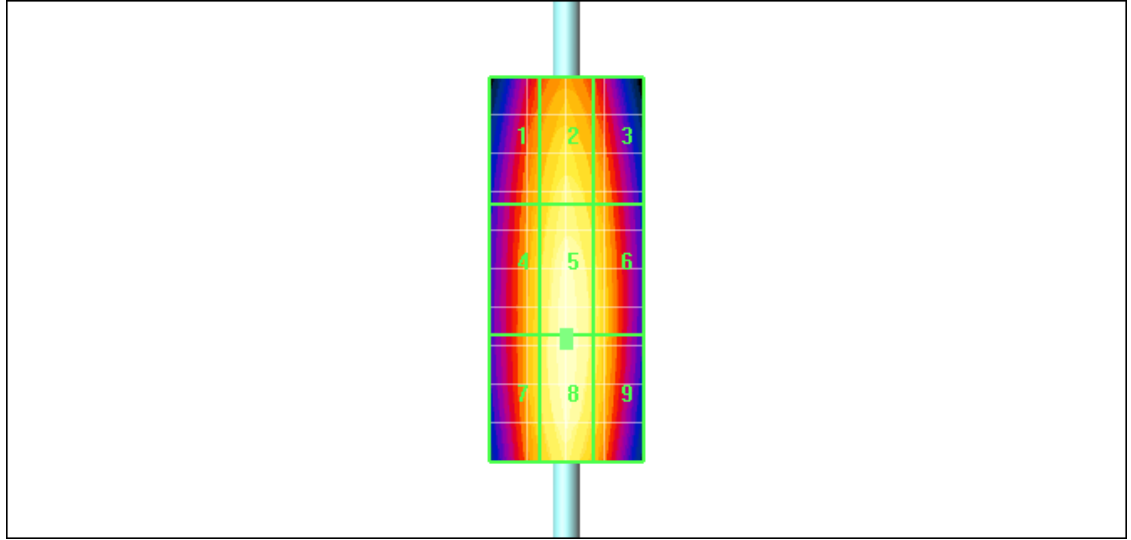
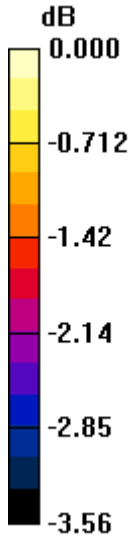
Grid 1 <b>0.422 M4</b>	Grid 2 <b>0.441 M4</b>	Grid 3 <b>0.426 M4</b>
Grid 4 <b>0.433 M4</b>	Grid 5 <b>0.458 M4</b>	Grid 6 <b>0.441 M4</b>
Grid 7 <b>0.435 M4</b>	Grid 8 <b>0.458 M4</b>	Grid 9 <b>0.441 M4</b>

Author Data  
**Daoud Attayi**


Dates of Test  
**Jan. 12-19, 2011  
Feb. 28-Mar. 01, 2011**

Report No  
**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW  
L6ARDP70UW**



0 dB = 0.458A/m

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Date/Time: 1/19/2011 3:50:53 PM

Test Laboratory: RIM Testing Services

HAC\_H\_Dipole\_835MHz\_AM80%\_GSM\_mod

**DUT: HAC-Dipole 835 MHz; Type: D835V3**

Communication System: AM 80%; Frequency: 835 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - measurement distance from the probe sensor center to**

**CD835 Dipole = 10mm/Hearing Aid Compatibility Test (5x11x1):**

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.306 A/m; Power Drift = -0.043 dB

Maximum value of Total (measured) = 0.289 A/m

**H Scan - measurement distance from the probe sensor center to**

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**CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x101x1):**

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

Maximum value of peak Total field = 0.289 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.306 A/m; Power Drift = -0.043 dB

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

Peak H-field in A/m

Grid 1 <b>0.270 M4</b>	Grid 2 <b>0.280 M4</b>	Grid 3 <b>0.268 M4</b>
Grid 4 <b>0.276 M4</b>	Grid 5 <b>0.289 M4</b>	Grid 6 <b>0.277 M4</b>
Grid 7 <b>0.276 M4</b>	Grid 8 <b>0.289 M4</b>	Grid 9 <b>0.277 M4</b>

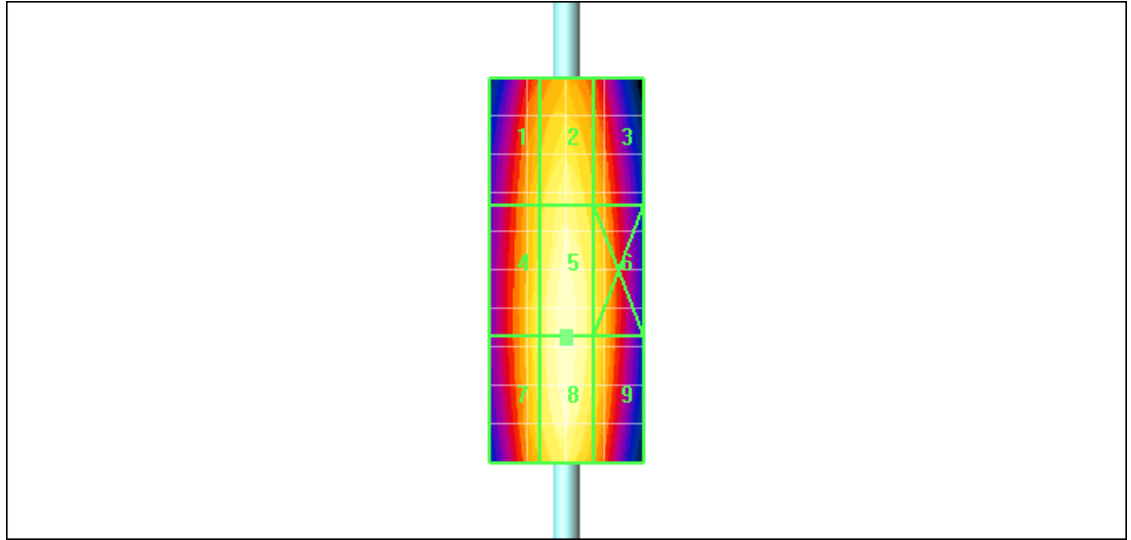
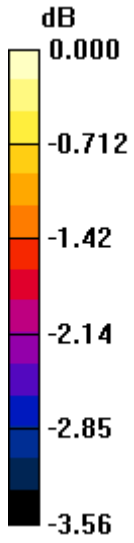


Author Data  
**Daoud Attayi**


Dates of Test  
**Jan. 12-19, 2011  
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FCC ID  
**L6ARDH70CW  
L6ARDP70UW**



0 dB = 0.289A/m

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Date/Time: 1/19/2011 3:13:22 PM

Test Laboratory: RIM Testing Services

HAC\_H\_Dipole\_835MHz\_CDMA\_mod

**DUT: HAC-Dipole 835 MHz; Type: D835V3**

Communication System: CDMA 800; Frequency: 835 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (5x11x1):**

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.179 A/m; Power Drift = -0.011 dB

Maximum value of Total (measured) = 0.169 A/m

**H Scan - measurement distance from the probe sensor center to**

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**CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x101x1):**

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

Maximum value of peak Total field = 0.170 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.179 A/m; Power Drift = -0.011 dB

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

Peak H-field in A/m

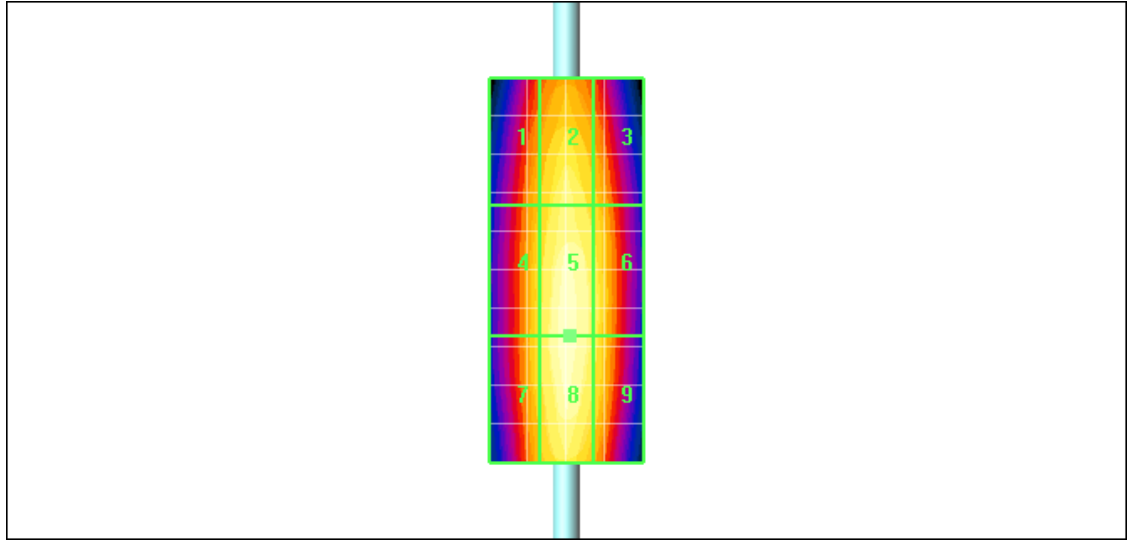
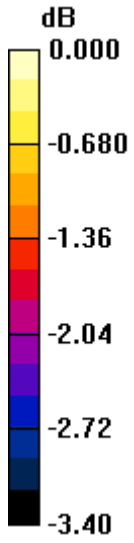
Grid 1 <b>0.157 M4</b>	Grid 2 <b>0.164 M4</b>	Grid 3 <b>0.159 M4</b>
Grid 4 <b>0.161 M4</b>	Grid 5 <b>0.170 M4</b>	Grid 6 <b>0.164 M4</b>
Grid 7 <b>0.161 M4</b>	Grid 8 <b>0.170 M4</b>	Grid 9 <b>0.164 M4</b>

Author Data  
**Daoud Attayi**


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**Jan. 12-19, 2011**  
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Report No  
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FCC ID  
**L6ARDH70CW**  
**L6ARDP70UW**



0 dB = 0.170A/m

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Date/Time: 1/19/2011 3:58:56 PM

Test Laboratory: RIM Testing Services

HAC\_H\_Dipole\_835MHz\_CW\_CDMA\_mod

**DUT: HAC-Dipole 835 MHz; Type: D835V3**

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (5x11x1):**

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.181 A/m; Power Drift = -0.057 dB

Maximum value of Total (measured) = 0.172 A/m

**H Scan - measurement distance from the probe sensor center to**

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**CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x101x1):**

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

Maximum value of peak Total field = 0.172 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.181 A/m; Power Drift = -0.057 dB

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

Peak H-field in A/m

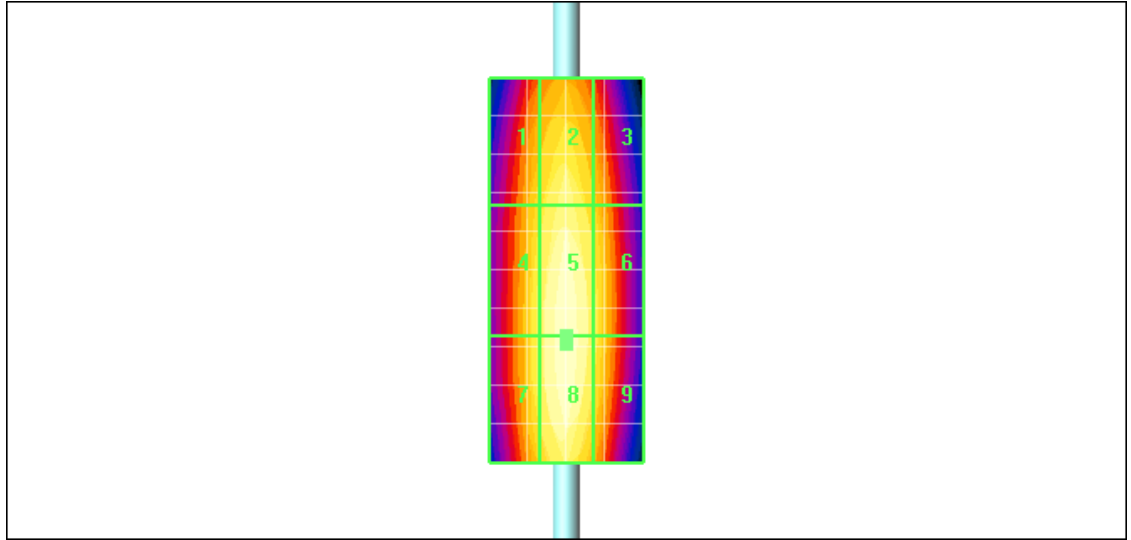
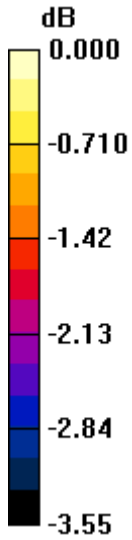
Grid 1 <b>0.161 M4</b>	Grid 2 <b>0.166 M4</b>	Grid 3 <b>0.160 M4</b>
Grid 4 <b>0.165 M4</b>	Grid 5 <b>0.172 M4</b>	Grid 6 <b>0.165 M4</b>
Grid 7 <b>0.165 M4</b>	Grid 8 <b>0.172 M4</b>	Grid 9 <b>0.165 M4</b>

Author Data  
**Daoud Attayi**


Dates of Test  
**Jan. 12-19, 2011**  
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Report No  
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FCC ID  
**L6ARDH70CW**  
**L6ARDP70UW**



0 dB = 0.172A/m

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Date/Time: 1/19/2011 3:54:05 PM

Test Laboratory: RIM Testing Services

HAC\_H\_Dipole\_835MHz\_AM80%\_CDMA\_mod

**DUT: HAC-Dipole 835 MHz; Type: D835V3**

Communication System: AM 80%; Frequency: 835 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (5x11x1):**

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

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.116 A/m; Power Drift = -0.014 dB

Maximum value of Total (measured) = 0.110 A/m

**H Scan - measurement distance from the probe sensor center to**



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**CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x101x1):**

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

Maximum value of peak Total field = 0.110 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.116 A/m; Power Drift = -0.014 dB

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

Peak H-field in A/m

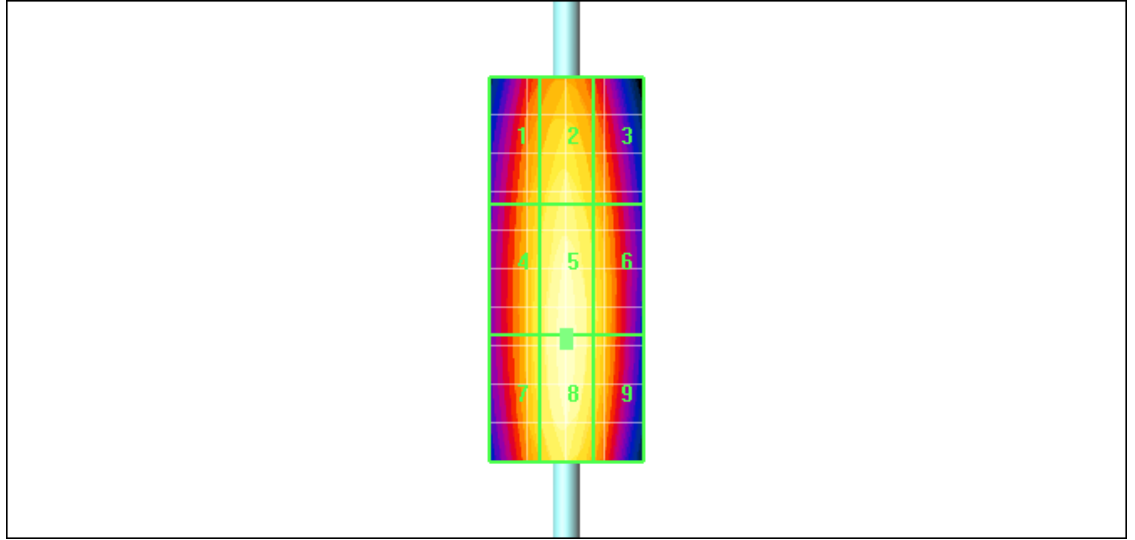
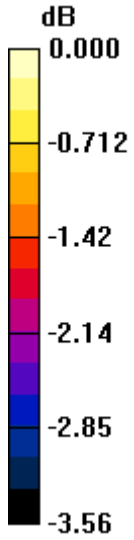
Grid 1 <b>0.103 M4</b>	Grid 2 <b>0.106 M4</b>	Grid 3 <b>0.102 M4</b>
Grid 4 <b>0.105 M4</b>	Grid 5 <b>0.110 M4</b>	Grid 6 <b>0.105 M4</b>
Grid 7 <b>0.105 M4</b>	Grid 8 <b>0.110 M4</b>	Grid 9 <b>0.105 M4</b>

Author Data  
**Daoud Attayi**


Dates of Test  
**Jan. 12-19, 2011  
Feb. 28-Mar. 01, 2011**

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**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW  
L6ARDP70UW**



0 dB = 0.110A/m

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Date/Time: 1/13/2011 2:49:30 PM

Test Laboratory: RIM Testing Services

HAC\_H\_Dipole\_1880MHz\_

**DUT: HAC Dipole 1880 MHz; Type: CD1880V3**

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

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

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (5x11x1):**

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.478 A/m; Power Drift = 0.007 dB

Maximum value of Total (measured) = 0.449 A/m

**H Scan - measurement distance from the probe sensor center to**

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**CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x101x1):**

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

Maximum value of peak Total field = 0.450 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.478 A/m; Power Drift = 0.007 dB

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

Peak H-field in A/m

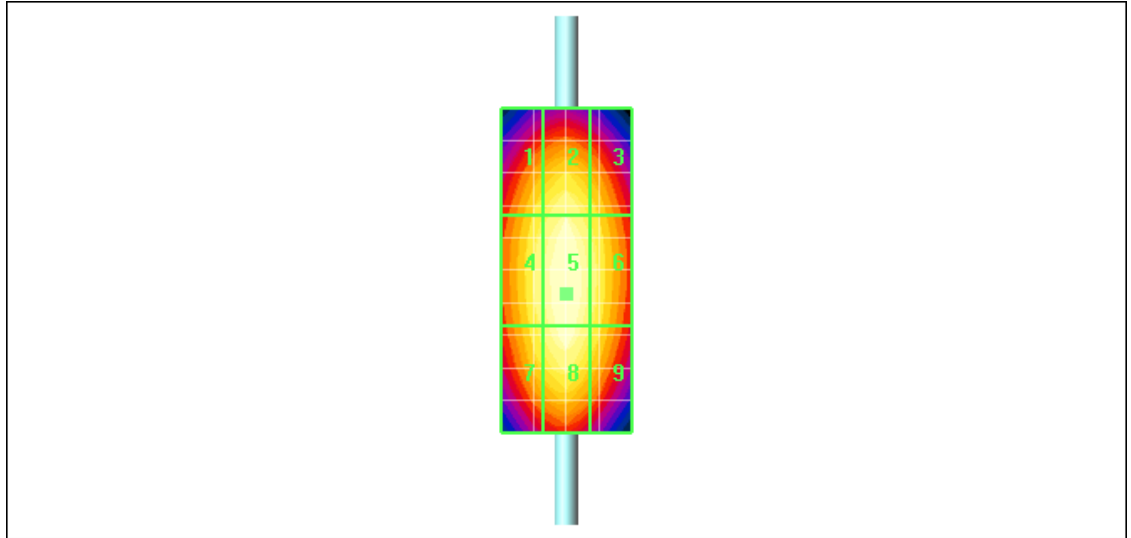
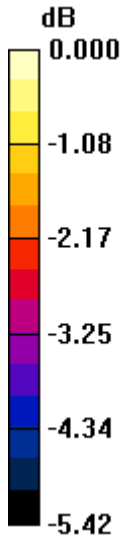
Grid 1 <b>0.416 M2</b>	Grid 2 <b>0.432 M2</b>	Grid 3 <b>0.413 M2</b>
Grid 4 <b>0.433 M2</b>	Grid 5 <b>0.450 M2</b>	Grid 6 <b>0.430 M2</b>
Grid 7 <b>0.425 M2</b>	Grid 8 <b>0.444 M2</b>	Grid 9 <b>0.422 M2</b>

Author Data  
**Daoud Attayi**


Dates of Test  
**Jan. 12-19, 2011**  
**Feb. 28-Mar. 01, 2011**

Report No  
**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW**  
**L6ARDP70UW**



0 dB = 0.450A/m

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Date/Time: 1/19/2011 2:23:57 PM

Test Laboratory: RIM Testing Services

HAC\_H\_Dipole\_1880MHz\_GSM\_mod

**DUT: HAC Dipole 1880 MHz; Type: CD1880V3**

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

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

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (5x9x1):**

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.131 A/m; Power Drift = -0.040 dB

Maximum value of Total (measured) = 0.122 A/m

**H Scan - measurement distance from the probe sensor center to**

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**CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x81x1):**

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

Maximum value of peak Total field = 0.122 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.131 A/m; Power Drift = -0.040 dB

**Hearing Aid Near-Field Category: M4 (AWF -5 dB)**

Peak H-field in A/m

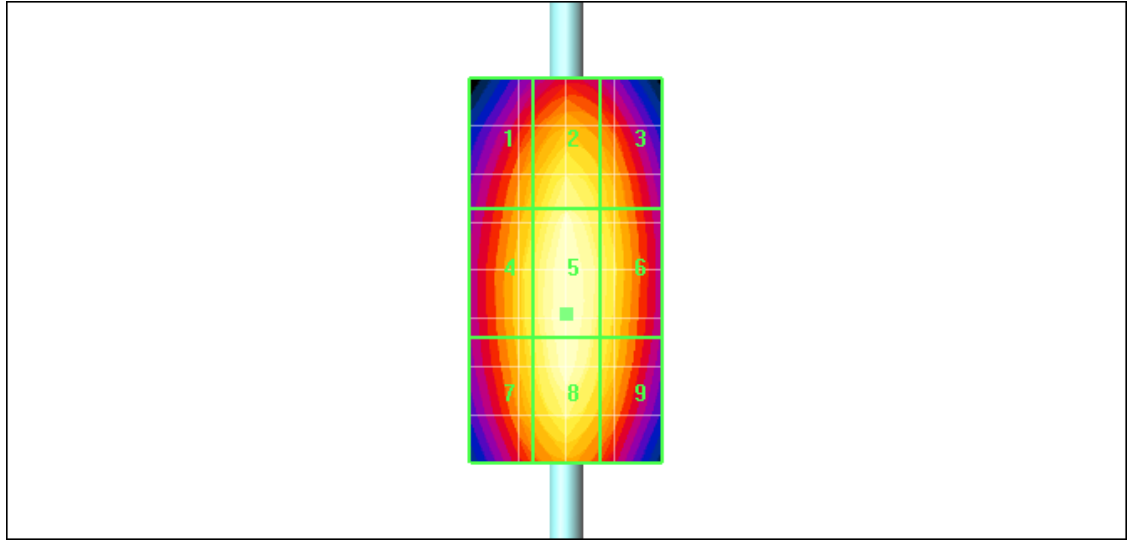
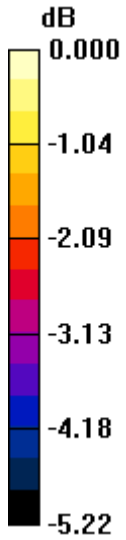
Grid 1 <b>0.108 M4</b>	Grid 2 <b>0.117 M4</b>	Grid 3 <b>0.111 M4</b>
Grid 4 <b>0.113 M4</b>	Grid 5 <b>0.122 M4</b>	Grid 6 <b>0.116 M4</b>
Grid 7 <b>0.112 M4</b>	Grid 8 <b>0.121 M4</b>	Grid 9 <b>0.114 M4</b>

Author Data  
**Daoud Attayi**

Dates of Test  
**Jan. 12-19, 2011  
 Feb. 28-Mar. 01, 2011**


Report No  
**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW  
 L6ARDP70UW**



0 dB = 0.122A/m



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Date/Time: 1/19/2011 2:01:09 PM

Test Laboratory: RIM Testing Services

HAC\_H\_Dipole\_1880MHz\_CW\_GSM\_mod

**DUT: HAC Dipole 1880 MHz; Type: CD1880V3**

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

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

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (5x5x1):**

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.325 A/m; Power Drift = -0.041 dB

Maximum value of Total (measured) = 0.306 A/m

**H Scan - measurement distance from the probe sensor center to**

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**CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x41x1):**

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

Maximum value of peak Total field = 0.308 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.325 A/m; Power Drift = -0.041 dB

**Hearing Aid Near-Field Category: M3 (AWF 0 dB)**

Peak H-field in A/m

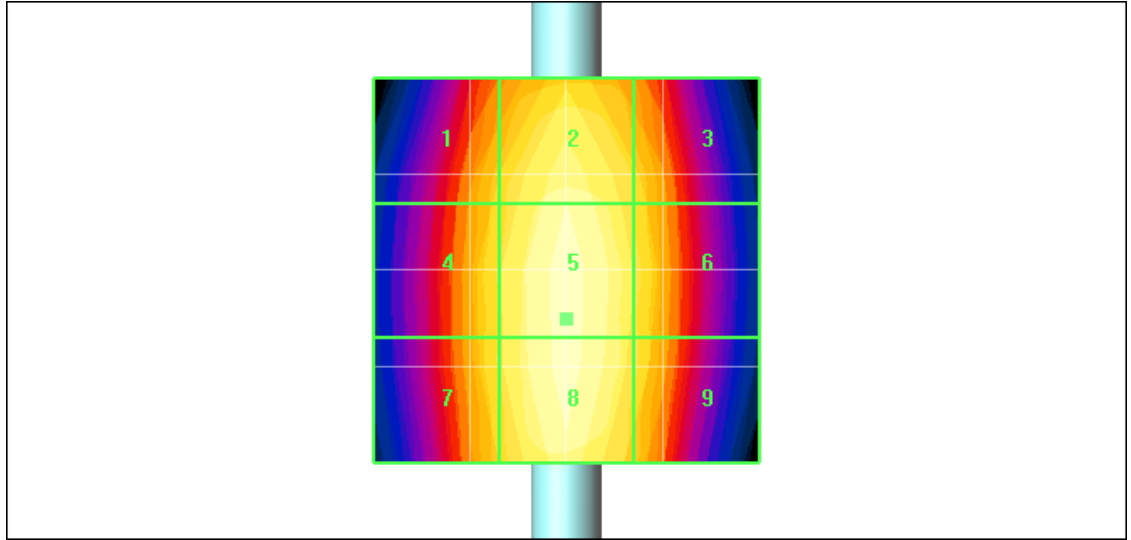
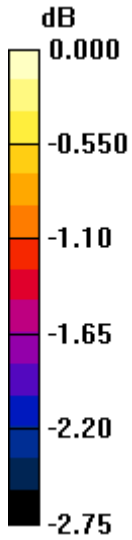
Grid 1 <b>0.293 M3</b>	Grid 2 <b>0.304 M3</b>	Grid 3 <b>0.296 M3</b>
Grid 4 <b>0.296 M3</b>	Grid 5 <b>0.308 M3</b>	Grid 6 <b>0.299 M3</b>
Grid 7 <b>0.296 M3</b>	Grid 8 <b>0.307 M3</b>	Grid 9 <b>0.298 M3</b>

Author Data  
**Daoud Attayi**


Dates of Test  
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FCC ID  
**L6ARDH70CW  
 L6ARDP70UW**



0 dB = 0.308A/m

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Date/Time: 1/19/2011 2:05:06 PM

Test Laboratory: RIM Testing Services

HAC\_H\_Dipole\_1880MHz\_AM80%\_GSM\_mod

**DUT: HAC Dipole 1880 MHz; Type: CD1880V3**

Communication System: AM 80%; Frequency: 1880 MHz;Duty Cycle: 1:1

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

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (5x9x1):**

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.211 A/m; Power Drift = -0.008 dB

Maximum value of Total (measured) = 0.198 A/m

**H Scan - measurement distance from the probe sensor center to**

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**CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x81x1):**

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

Maximum value of peak Total field = 0.199 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.211 A/m; Power Drift = -0.008 dB

**Hearing Aid Near-Field Category: M3 (AWF 0 dB)**

Peak H-field in A/m

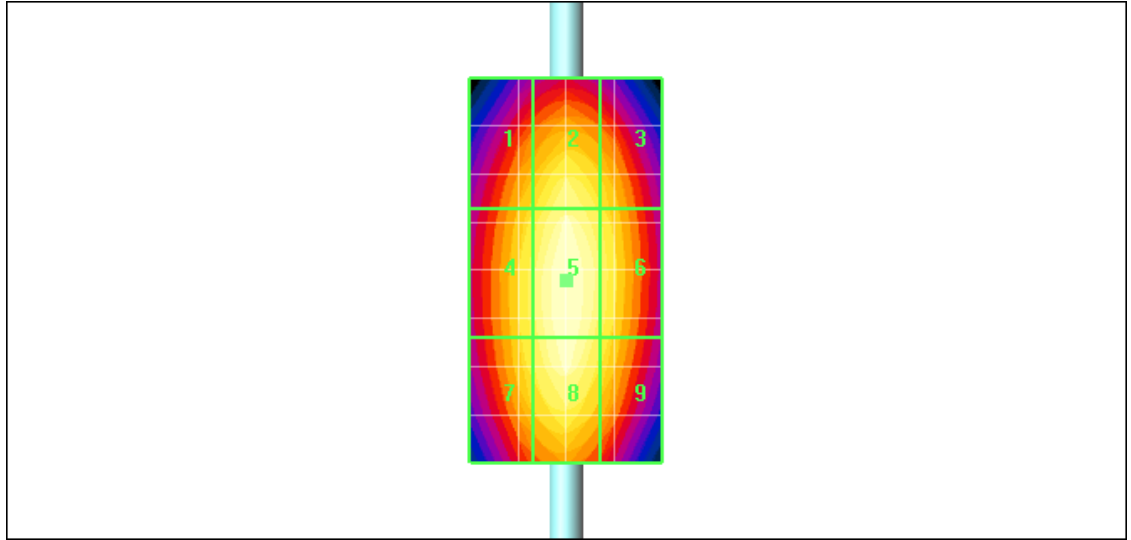
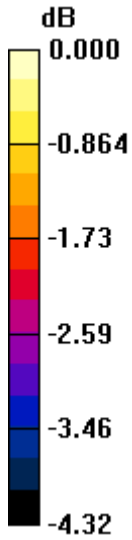
Grid 1 <b>0.182 M4</b>	Grid 2 <b>0.191 M3</b>	Grid 3 <b>0.185 M4</b>
Grid 4 <b>0.189 M4</b>	Grid 5 <b>0.199 M3</b>	Grid 6 <b>0.190 M3</b>
Grid 7 <b>0.187 M4</b>	Grid 8 <b>0.196 M3</b>	Grid 9 <b>0.187 M4</b>

Author Data  
**Daoud Attayi**


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**L6ARDH70CW  
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0 dB = 0.199A/m

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Date/Time: 1/19/2011 2:40:36 PM

Test Laboratory: RIM Testing Services

HAC\_H\_Dipole\_1880MHz\_CDMA\_mod

**DUT: HAC Dipole 1880 MHz; Type: CD1880V3**

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (5x9x1):**

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.109 A/m; Power Drift = 0.002 dB

Maximum value of Total (measured) = 0.102 A/m

**H Scan - measurement distance from the probe sensor center to**

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**CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x81x1):**

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

Maximum value of peak Total field = 0.103 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.109 A/m; Power Drift = 0.002 dB

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

Peak H-field in A/m

Grid 1 <b>0.093 M4</b>	Grid 2 <b>0.101 M4</b>	Grid 3 <b>0.097 M4</b>
Grid 4 <b>0.100 M4</b>	Grid 5 <b>0.103 M4</b>	Grid 6 <b>0.102 M4</b>
Grid 7 <b>0.098 M4</b>	Grid 8 <b>0.102 M4</b>	Grid 9 <b>0.097 M4</b>

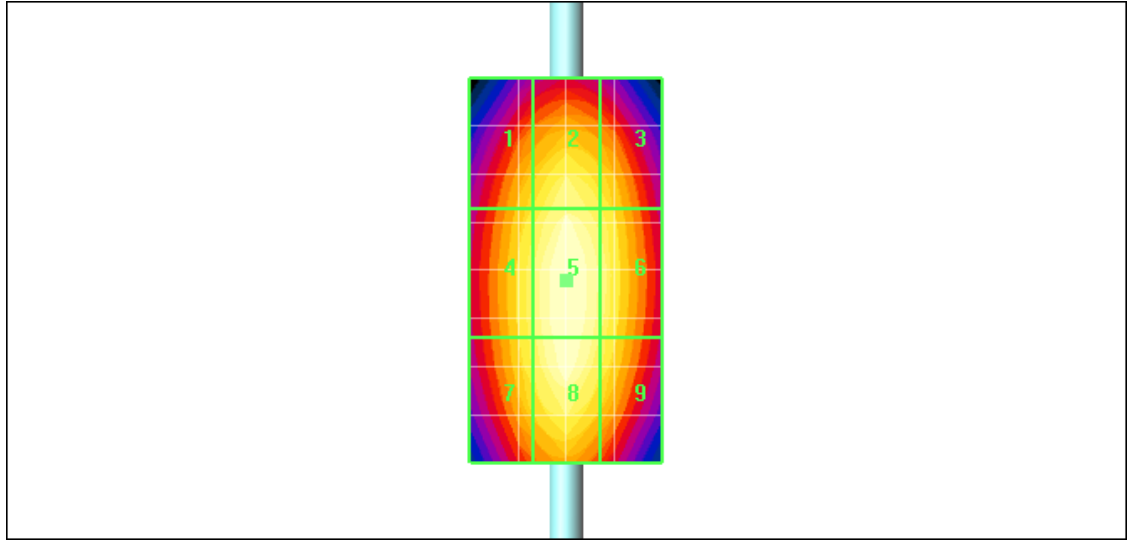
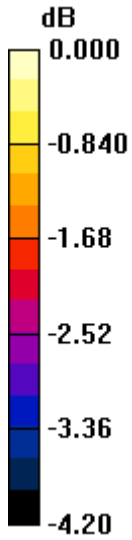


Author Data  
**Daoud Attayi**


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FCC ID  
**L6ARDH70CW  
 L6ARDP70UW**



0 dB = 0.111A/m

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Test Laboratory: RIM Testing Services

HAC\_H\_Dipole\_1880MHz\_CW\_CDMA\_mod

**DUT: HAC Dipole 1880 MHz; Type: CD1880V3**

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

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

Phantom section: RF Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (5x9x1):**

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.117 A/m; Power Drift = 0.014 dB

Maximum value of Total (measured) = 0.111 A/m

**H Scan - measurement distance from the probe sensor center to**

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**CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x81x1):**

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

Maximum value of peak Total field = 0.111 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.117 A/m; Power Drift = 0.014 dB

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

Peak H-field in A/m

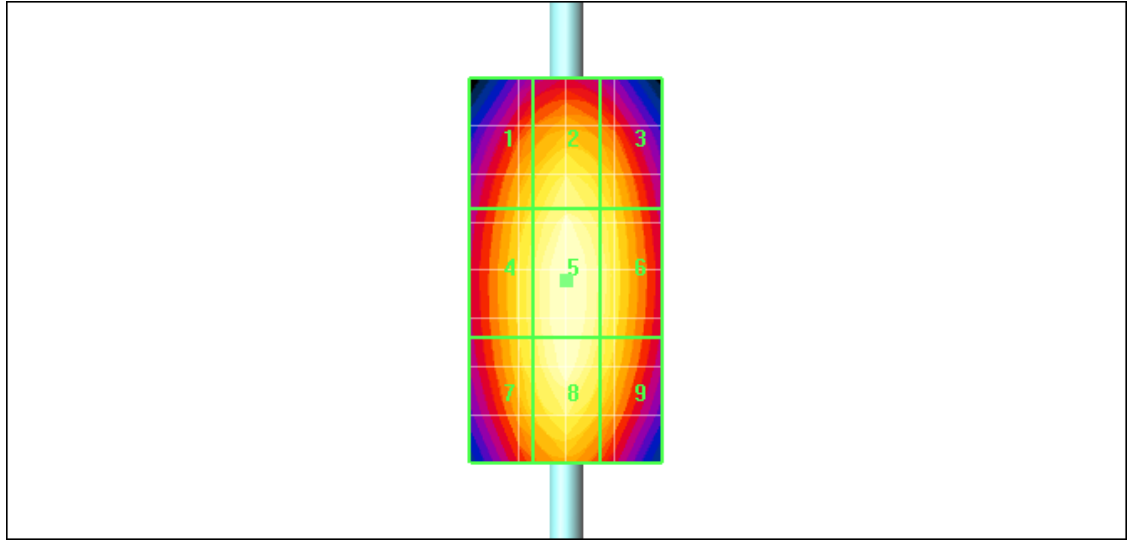
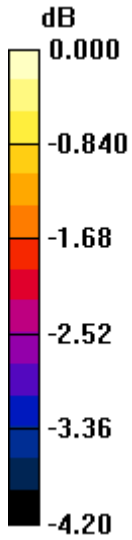
Grid 1 <b>0.102 M4</b>	Grid 2 <b>0.107 M4</b>	Grid 3 <b>0.104 M4</b>
Grid 4 <b>0.106 M4</b>	Grid 5 <b>0.111 M4</b>	Grid 6 <b>0.107 M4</b>
Grid 7 <b>0.105 M4</b>	Grid 8 <b>0.110 M4</b>	Grid 9 <b>0.106 M4</b>

Author Data  
**Daoud Attayi**


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0 dB = 0.111A/m

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Date/Time: 1/19/2011 2:54:42 PM

Test Laboratory: RIM Testing Services

HAC\_H\_Dipole\_1880MHz\_AM80%\_CDMA\_mod

**DUT: HAC Dipole 1880 MHz; Type: CD1880V3**

Communication System: AM 80%; Frequency: 1880 MHz;Duty Cycle: 1:1

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

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (5x9x1):**

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.084 A/m; Power Drift = 0.004 dB

Maximum value of Total (measured) = 0.080 A/m

**H Scan - measurement distance from the probe sensor center to**

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**CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x81x1):**

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

Maximum value of peak Total field = 0.080 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.084 A/m; Power Drift = 0.004 dB

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

Peak H-field in A/m

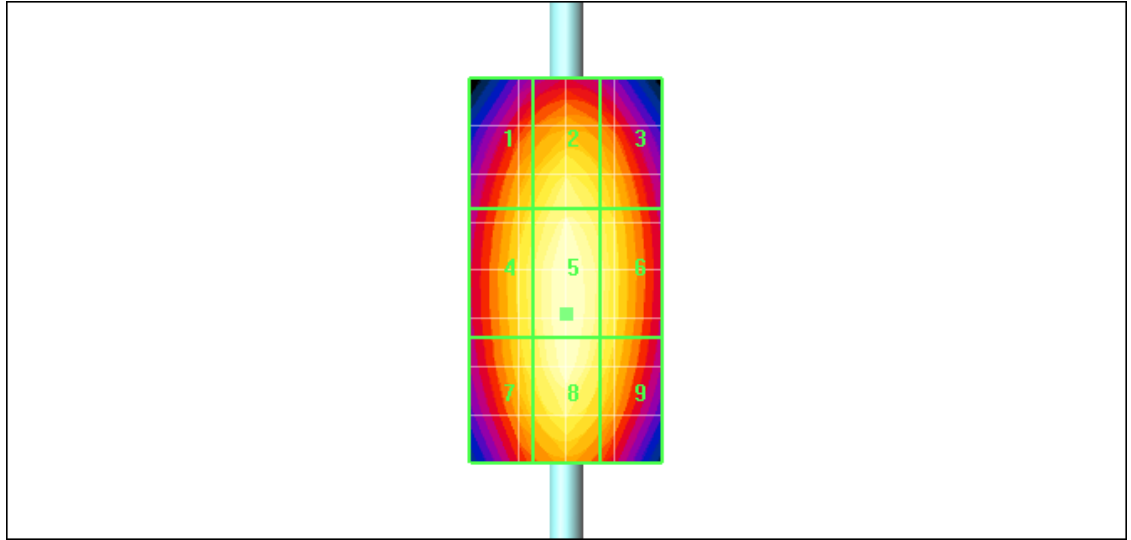
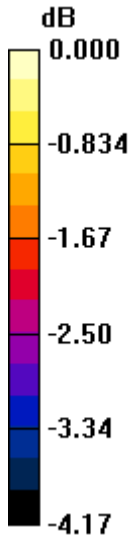
Grid 1 <b>0.074 M4</b>	Grid 2 <b>0.077 M4</b>	Grid 3 <b>0.075 M4</b>
Grid 4 <b>0.076 M4</b>	Grid 5 <b>0.080 M4</b>	Grid 6 <b>0.077 M4</b>
Grid 7 <b>0.076 M4</b>	Grid 8 <b>0.079 M4</b>	Grid 9 <b>0.076 M4</b>

Author Data  
**Daoud Attayi**


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FCC ID  
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 L6ARDP70UW**



0 dB = 0.080A/m

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Date/Time: 2/28/2011 12:29:19 PM

Test Laboratory: RIM Testing Services

HAC RF\_E-Field\_validation\_835 MHz

**DUT: HAC-Dipole 835 MHz; Type: D835V3**

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
- Sensor-Surface: 0mm (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 CD835 Dipole = 10mm/Hearing Aid**

**Compatibility Test (5x37x1):** Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 121.9 V/m; Power Drift = -0.07 dB

Maximum value of Total (measured) = 164.8 V/m

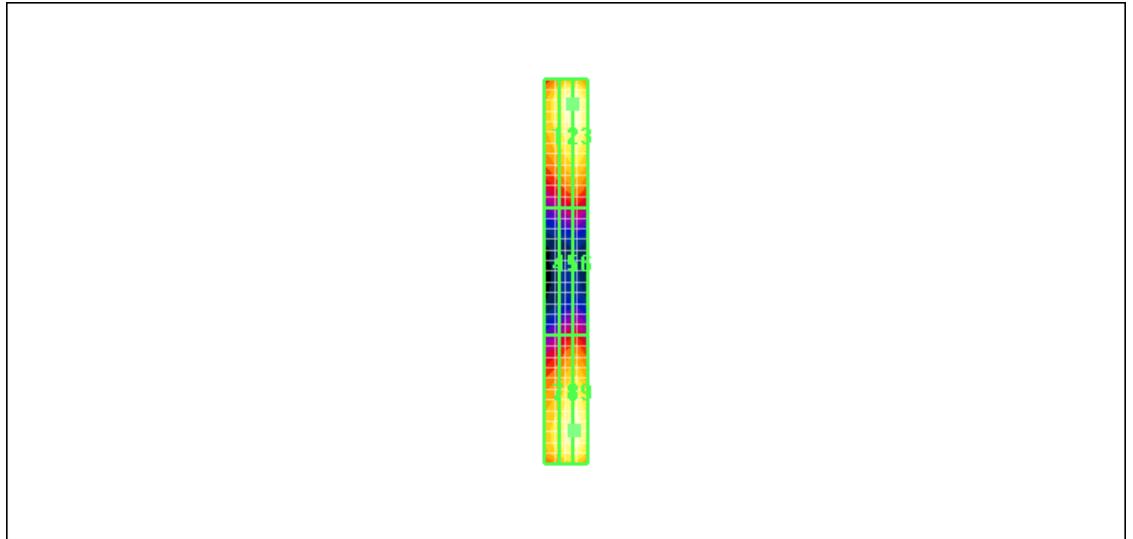
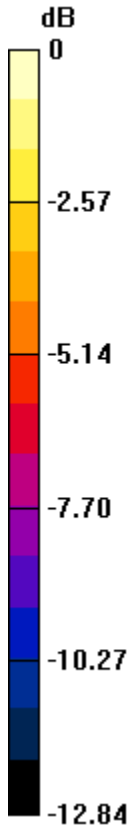


Author Data  
**Daoud Attayi**


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0 dB = 164.8V/m

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Date/Time: 2/28/2011 1:07:46 PM

Test Laboratory: RIM Testing Services

**DUT: HAC-Dipole 835 MHz; Type: D835V3**

Communication System: WCDMA FDD V; 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: 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 CD835 Dipole = 10mm/Hearing Aid**

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

Maximum value of peak Total field = 56.944 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm


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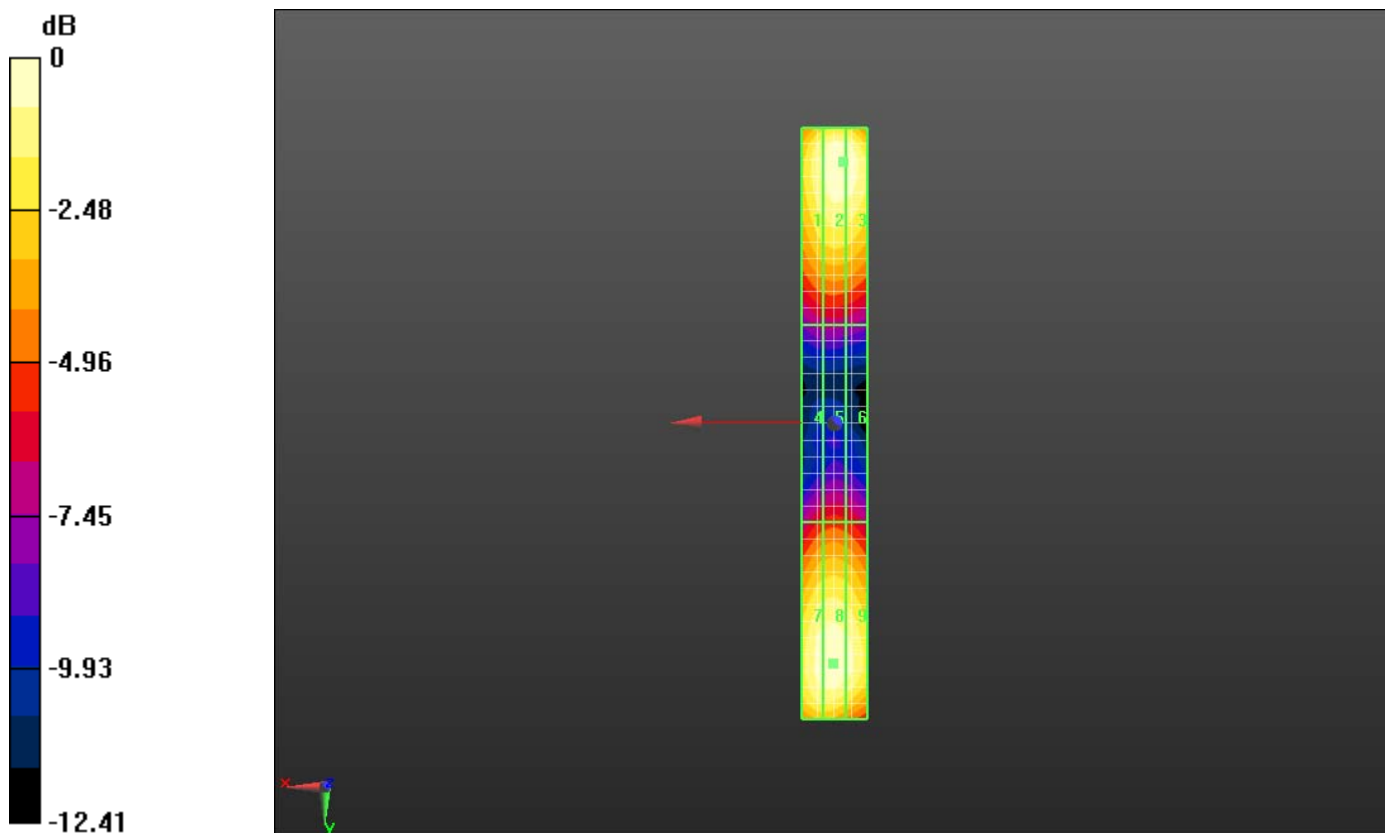
Reference Value = 42.995 V/m; Power Drift = 0.01 dB

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


Peak E-field in V/m

Grid 1 <b>53.505 M4</b>	Grid 2 <b>56.944 M4</b>	Grid 3 <b>56.718 M4</b>
Grid 4 <b>30.372 M4</b>	Grid 5 <b>31.039 M4</b>	Grid 6 <b>30.245 M4</b>
Grid 7 <b>54.971 M4</b>	Grid 8 <b>56.115 M4</b>	Grid 9 <b>54.501 M4</b>

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0 dB = 56.940V/m

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Date/Time: 2/28/2011 12:43:40 PM

Test Laboratory: RIM Testing Services

**DUT: HAC-Dipole 835 MHz; Type: D835V3**

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
- 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 = 57.608 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

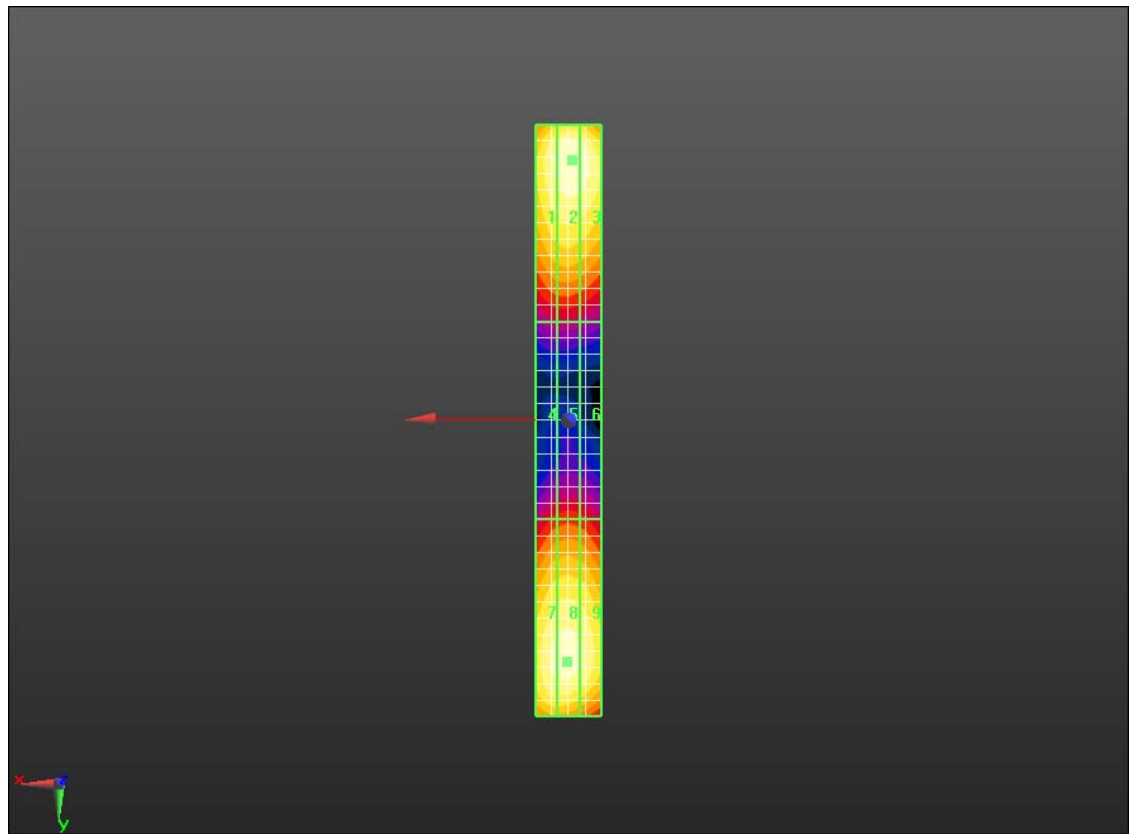
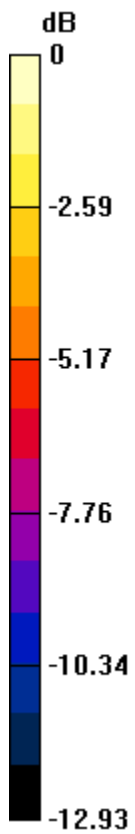
Reference Value = 42.622 V/m; Power Drift = -0.06 dB


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

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Peak E-field in V/m

Grid 1 <b>54.388 M4</b>	Grid 2 <b>57.608 M4</b>	Grid 3 <b>56.620 M4</b>
Grid 4 <b>30.355 M4</b>	Grid 5 <b>30.943 M4</b>	Grid 6 <b>30.261 M4</b>
Grid 7 <b>54.334 M4</b>	Grid 8 <b>55.102 M4</b>	Grid 9 <b>53.476 M4</b>



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Date/Time: 2/28/2011 12:54:03 PM

Test Laboratory: RIM Testing Services

**DUT: HAC-Dipole 835 MHz; Type: D835V3**

Communication System: AM 80%; 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
- 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 CD835 Dipole = 10mm/Hearing Aid**

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


Maximum value of peak Total field = 37.106 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 26.469 V/m; Power Drift = 0.17 dB

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

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Peak E-field in V/m

Grid 1  <b>35.158 M4</b>	Grid 2  <b>37.106 M4</b>	Grid 3  <b>36.227 M4</b>
Grid 4  <b>19.445 M4</b>	Grid 5  <b>19.878 M4</b>	Grid 6  <b>19.259 M4</b>
Grid 7  <b>34.812 M4</b>	Grid 8  <b>35.203 M4</b>	Grid 9  <b>34.158 M4</b>

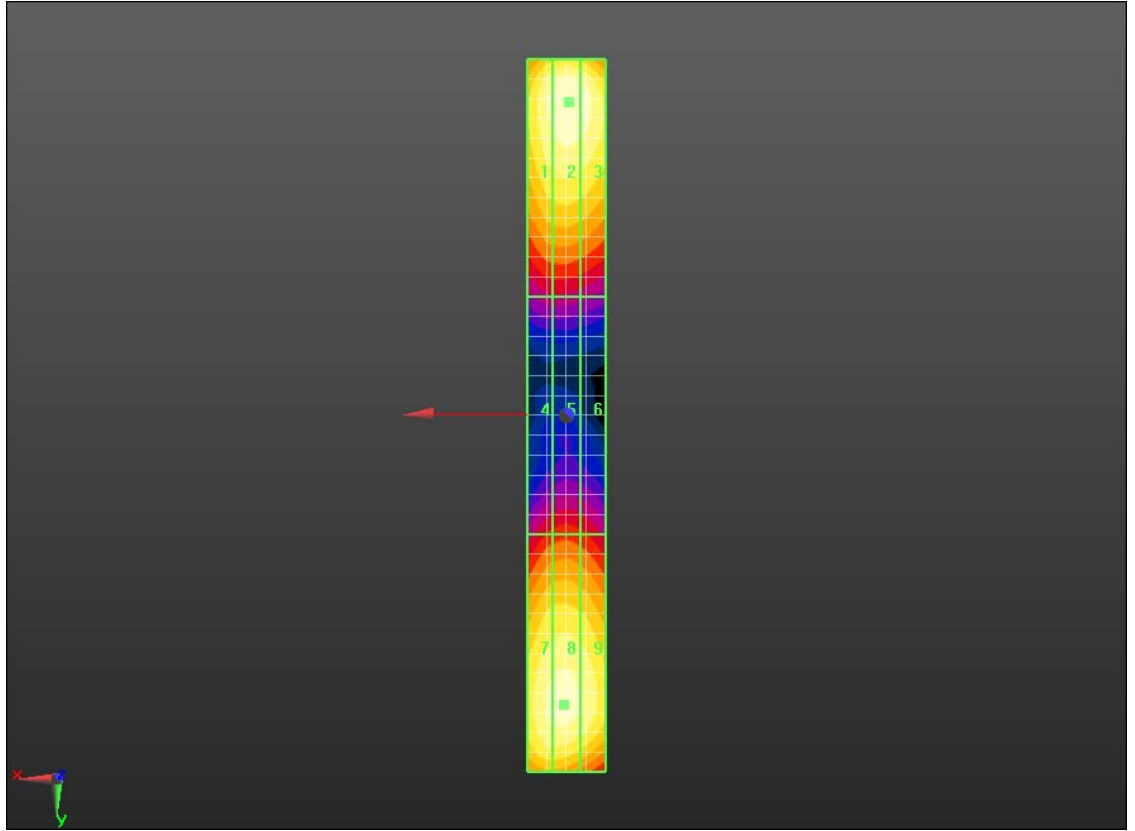
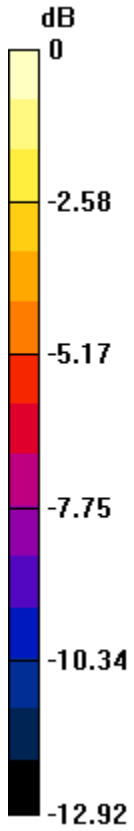


Author Data  
**Daoud Attayi**


Dates of Test  
**Jan. 12-19, 2011**  
**Feb. 28-Mar. 01, 2011**

Report No  
**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW**  
**L6ARDP70UW**



0 dB = 37.110V/m

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Date/Time: 2/28/2011 3:08:59 PM

Test Laboratory: RIM Testing Services

**DUT: HAC Dipole 1880 MHz; Type: CD1880V3**

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: DASYS5 (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 = 132.7 V/m


Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 120.8 V/m; Power Drift = -0.02 dB

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

Peak E-field in V/m

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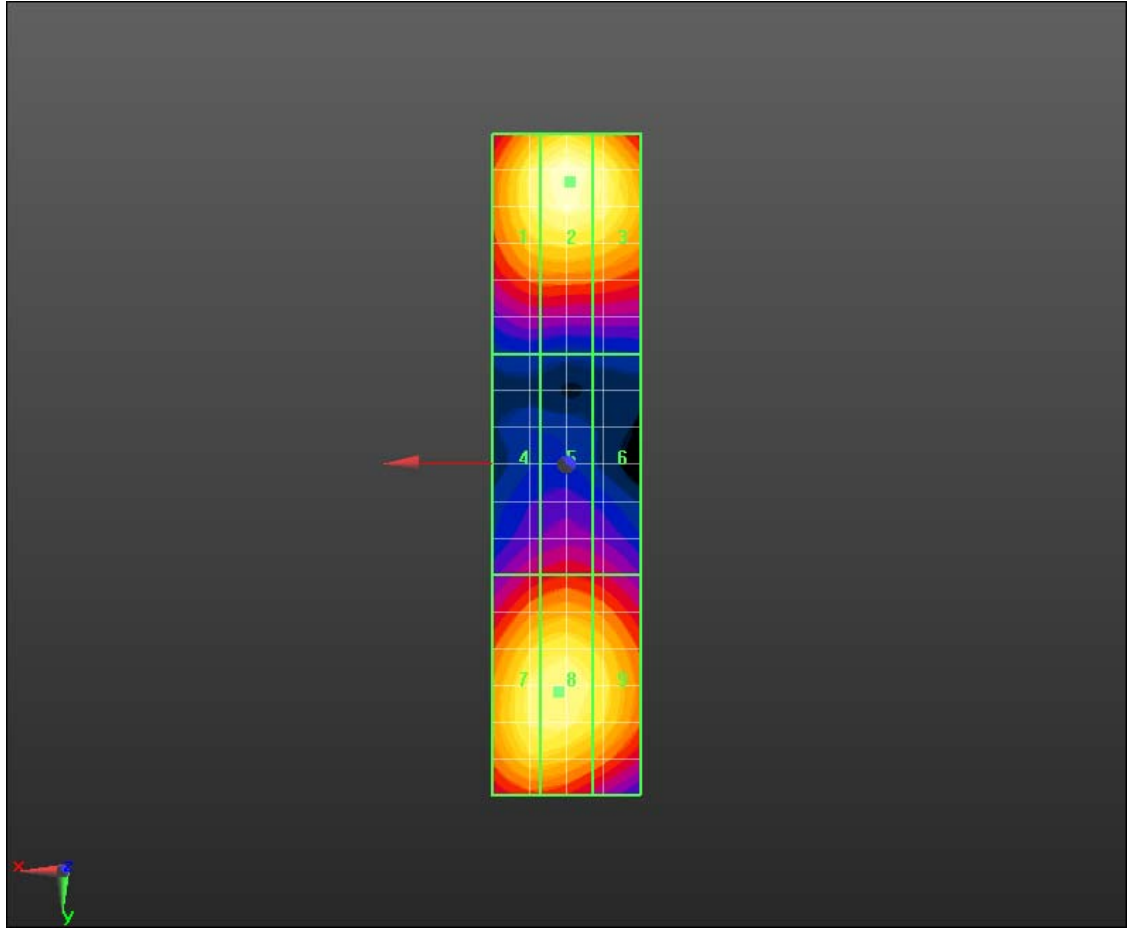
Grid 1  <b>126.7 M2</b>	Grid 2  <b>132.7 M2</b>	Grid 3  <b>128.5 M2</b>
Grid 4  <b>86.778 M3</b>	Grid 5  <b>89.711 M3</b>	Grid 6  <b>87.123 M3</b>
Grid 7  <b>123.6 M2</b>	Grid 8  <b>124.4 M2</b>	Grid 9  <b>119.5 M2</b>

Author Data  
**Daoud Attayi**


Dates of Test  
**Jan. 12-19, 2011**  
**Feb. 28-Mar. 01, 2011**

Report No  
**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW**  
**L6ARDP70UW**



0 dB = 132.7V/m

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Date/Time: 2/28/2011 2:07:15 PM

Test Laboratory: RIM Testing Services

HAC RF\_E-Field\_PMF\_UMTS\_band\_II\_1880 MHz

**DUT: HAC Dipole 1880 MHz; Type: CD1880V3**

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: 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 = 38.483 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

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Reference Value = 35.028 V/m; Power Drift = 0.10 dB

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

Peak E-field in V/m

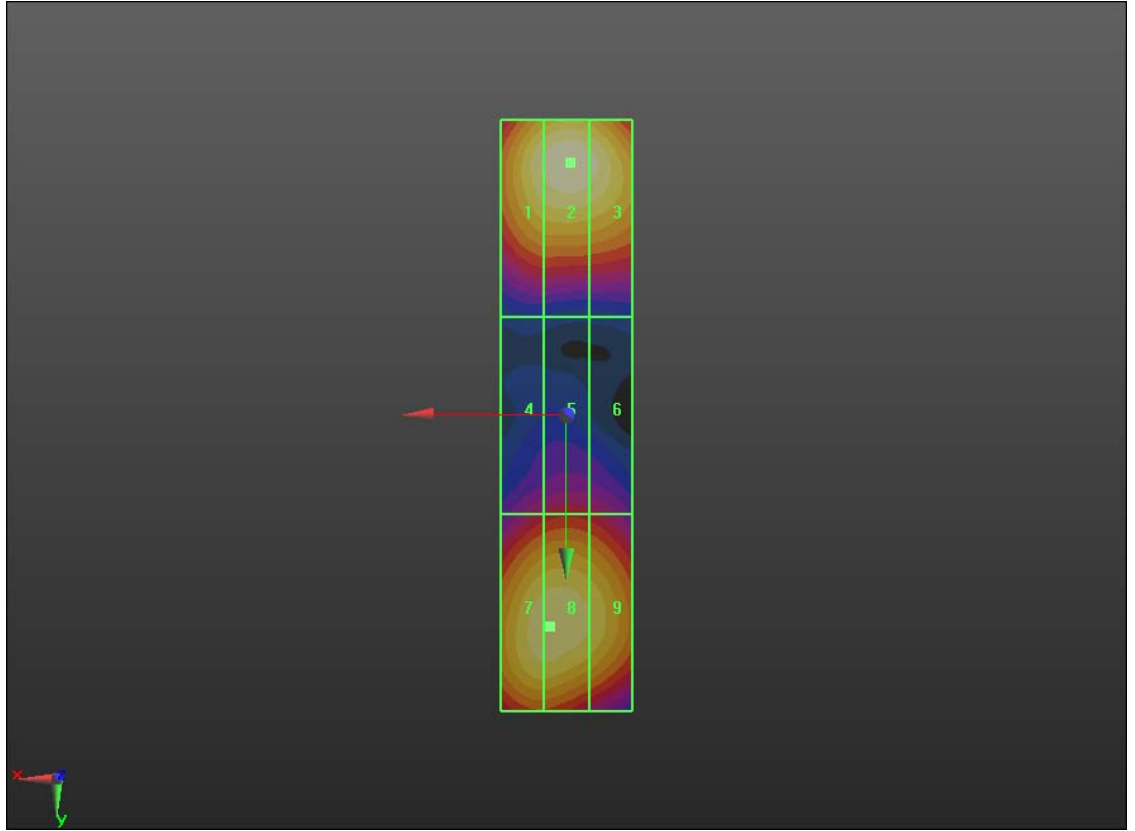
Grid 1 <b>36.706 M4</b>	Grid 2 <b>38.483 M4</b>	Grid 3 <b>37.337 M4</b>
Grid 4 <b>24.878 M4</b>	Grid 5 <b>25.643 M4</b>	Grid 6 <b>25.076 M4</b>
Grid 7 <b>35.871 M4</b>	Grid 8 <b>35.988 M4</b>	Grid 9 <b>34.479 M4</b>

Author Data  
**Daoud Attayi**


Dates of Test  
**Jan. 12-19, 2011  
 Feb. 28-Mar. 01, 2011**

Report No  
**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW  
 L6ARDP70UW**



0 dB = 38.480V/m

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Date/Time: 2/28/2011 2:16:59 PM

Test Laboratory: RIM Testing Services

HAC RF\_E-Field\_PMF\_CW1880 MHz

**DUT: HAC Dipole 1880 MHz; Type: CD1880V3**

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: DASYS5 (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: 0mm (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 (5x19x1):** Measurement grid: dx=5mm, dy=5mm


Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 38.861 V/m; Power Drift = 0.02 dB

Maximum value of Total (measured) = 42.392 V/m



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Date/Time: 2/28/2011 2:16:59 PM

Test Laboratory: RIM Testing Services

**DUT: HAC Dipole 1880 MHz; Type: CD1880V3**

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: DASYS5 (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 = 43.024 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 38.861 V/m; Power Drift = 0.02 dB

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

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Peak E-field in V/m

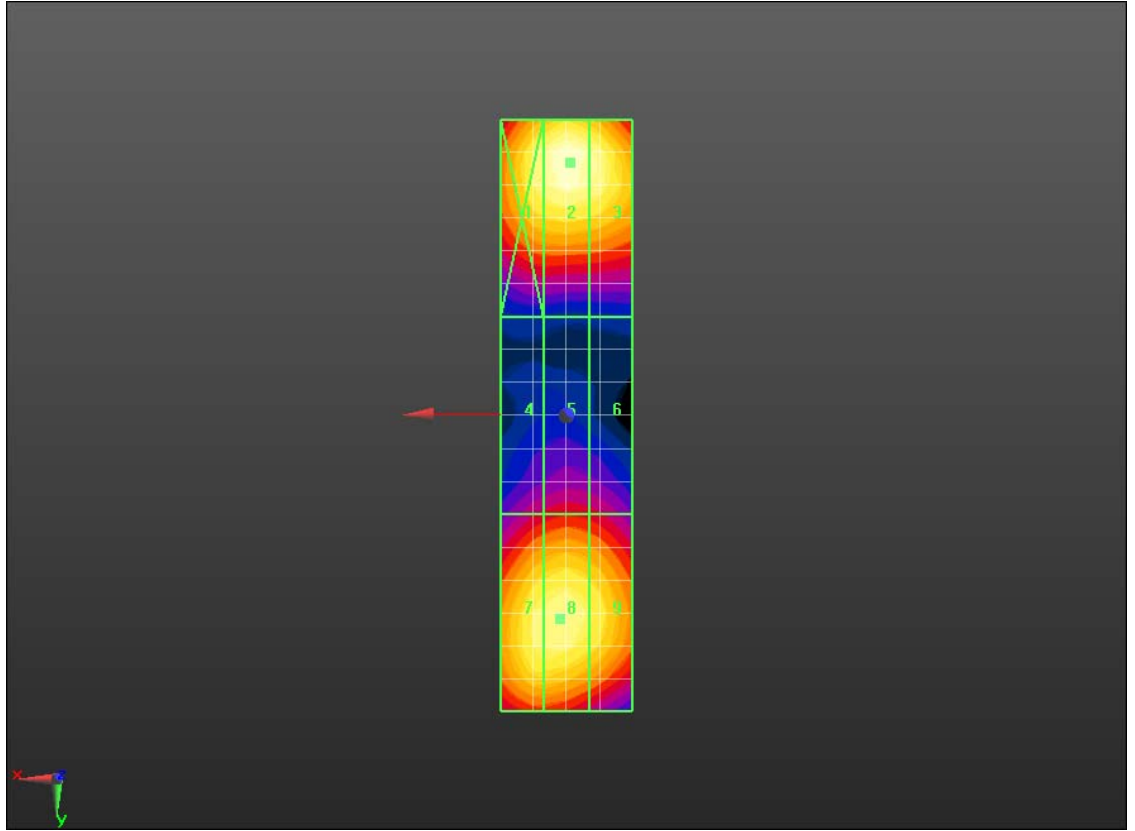
Grid 1  <b>40.897 M4</b>	Grid 2  <b>43.024 M4</b>	Grid 3  <b>41.671 M4</b>
Grid 4  <b>27.919 M4</b>	Grid 5  <b>28.886 M4</b>	Grid 6  <b>28.274 M4</b>
Grid 7  <b>39.759 M4</b>	Grid 8  <b>40.082 M4</b>	Grid 9  <b>38.641 M4</b>

Author Data  
**Daoud Attayi**


Dates of Test  
**Jan. 12-19, 2011**  
**Feb. 28-Mar. 01, 2011**

Report No  
**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW**  
**L6ARDP70UW**



0 dB = 43.020V/m

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Date/Time: 2/28/2011 2:21:55 PM

Test Laboratory: RIM Testing Services

**DUT: HAC Dipole AM 80%\_1880 MHz; Type: CD1880V3**

Communication System: AM 80%; 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
- 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 = 27.543 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 25.024 V/m; Power Drift = -0.0069 dB

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

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Peak E-field in V/m

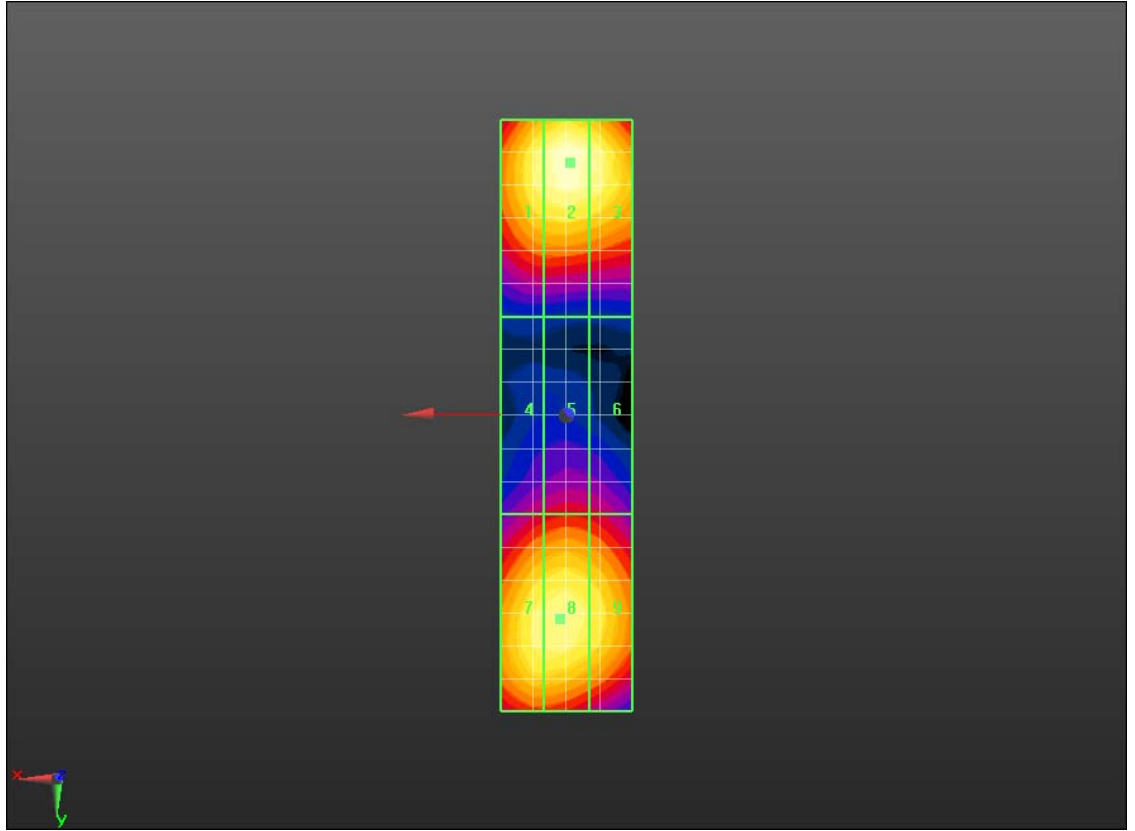
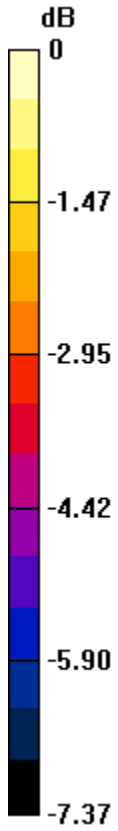
Grid 1 <b>26.151 M4</b>	Grid 2 <b>27.543 M4</b>	Grid 3 <b>26.639 M4</b>
Grid 4 <b>17.904 M4</b>	Grid 5 <b>18.574 M4</b>	Grid 6 <b>18.189 M4</b>
Grid 7 <b>25.506 M4</b>	Grid 8 <b>25.701 M4</b>	Grid 9 <b>24.770 M4</b>

Author Data  
**Daoud Attayi**


Dates of Test  
**Jan. 12-19, 2011**  
**Feb. 28-Mar. 01, 2011**

Report No  
**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW**  
**L6ARDP70UW**



0 dB = 27.540V/m

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Date/Time: 2/28/2011 3:55:23 PM

Test Laboratory: RIM Testing Services

HAC RF\_H-Field\_validation\_835 MHz

**DUT: HAC-Dipole 835 MHz; Type: D835V3**

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: DASYS5 (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: DASYS2, 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 = 0.478 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

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Reference Value = 0.507 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>0.432 M4</b>	Grid 2 <b>0.453 M4</b>	Grid 3 <b>0.435 M4</b>
Grid 4 <b>0.452 M4</b>	Grid 5 <b>0.478 M4</b>	Grid 6 <b>0.456 M4</b>
Grid 7 <b>0.450 M4</b>	Grid 8 <b>0.472 M4</b>	Grid 9 <b>0.444 M4</b>

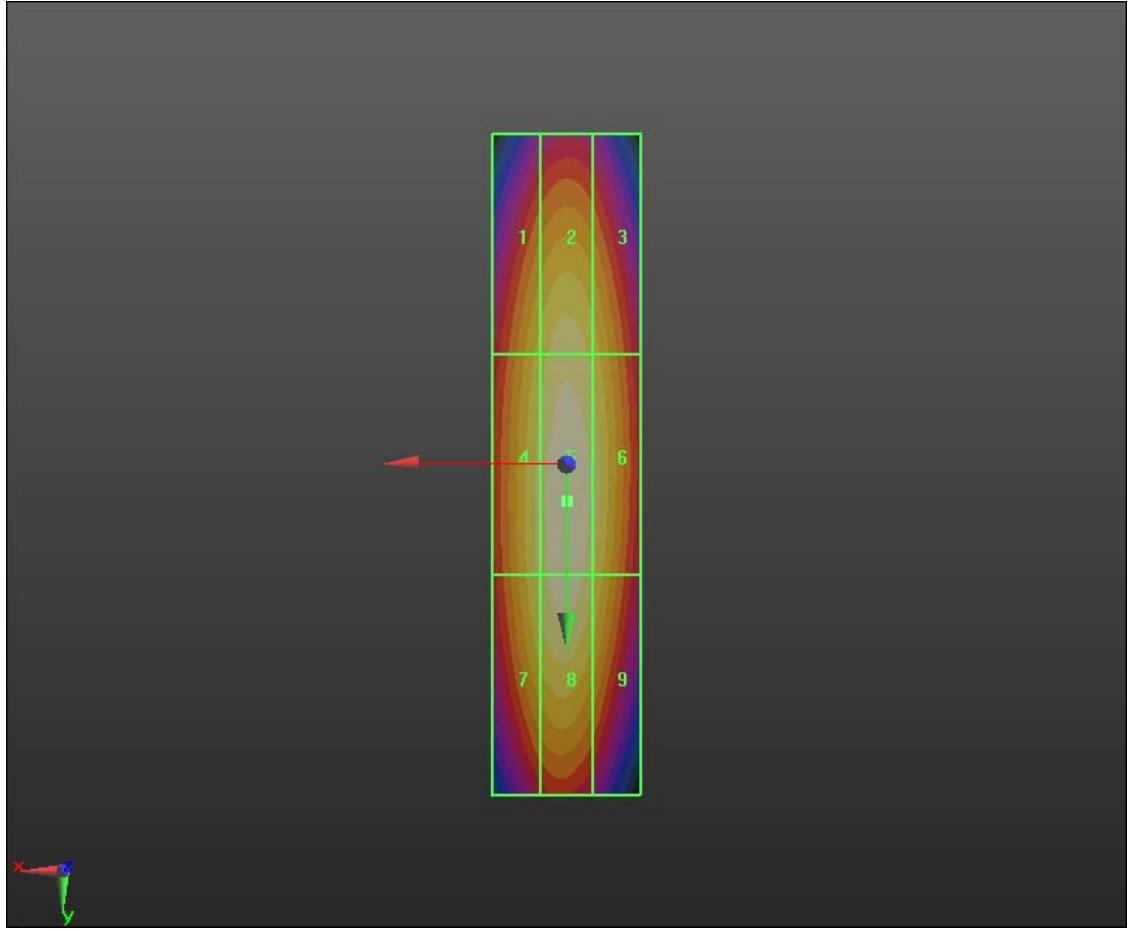


Author Data  
**Daoud Attayi**


Dates of Test  
**Jan. 12-19, 2011**  
**Feb. 28-Mar. 01, 2011**

Report No  
**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW**  
**L6ARDP70UW**



0 dB = 0.480A/m

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Date/Time: 2/28/2011 3:32:16 PM

Test Laboratory: RIM Testing Services

HAC RF\_H-Field\_PMF\_UMTS\_band V\_835 MHz

**DUT: HAC-Dipole 835 MHz; Type: D835V3**

Communication System: WCDMA FDD V; 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 = 0.168 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

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	Author Data <b>Daoud Attayi</b>	Dates of Test <b>Jan. 12-19, 2011</b> <b>Feb. 28-Mar. 01, 2011</b>	Report No <b>RTS-2605-1102-02A</b>

Reference Value = 0.178 A/m; Power Drift = 0.23 dB

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

Peak H-field in A/m

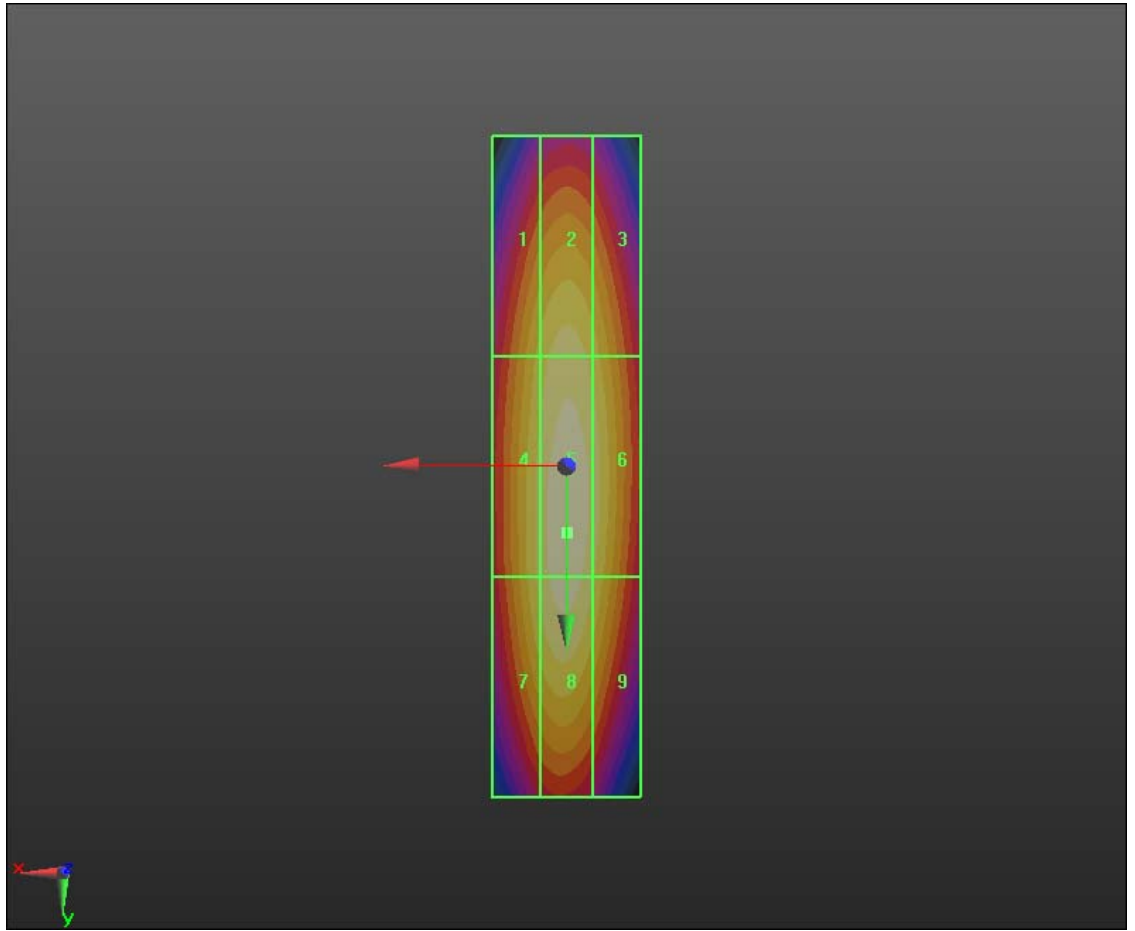
Grid 1 <b>0.153 M4</b>	Grid 2 <b>0.160 M4</b>	Grid 3 <b>0.154 M4</b>
Grid 4 <b>0.160 M4</b>	Grid 5 <b>0.168 M4</b>	Grid 6 <b>0.161 M4</b>
Grid 7 <b>0.159 M4</b>	Grid 8 <b>0.166 M4</b>	Grid 9 <b>0.157 M4</b>

Author Data  
**Daoud Attayi**


Dates of Test  
**Jan. 12-19, 2011**  
**Feb. 28-Mar. 01, 2011**

Report No  
**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW**  
**L6ARDP70UW**



0 dB = 0.170A/m

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Date/Time: 2/28/2011 3:41:08 PM

Test Laboratory: RIM Testing Services

HAC RF\_H-Field\_PMF\_CW835 MHz

**DUT: HAC-Dipole 835 MHz; Type: D835V3**

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
- 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 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 = 0.166 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

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Reference Value = 0.177 A/m; Power Drift = -0.10 dB

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

Peak H-field in A/m

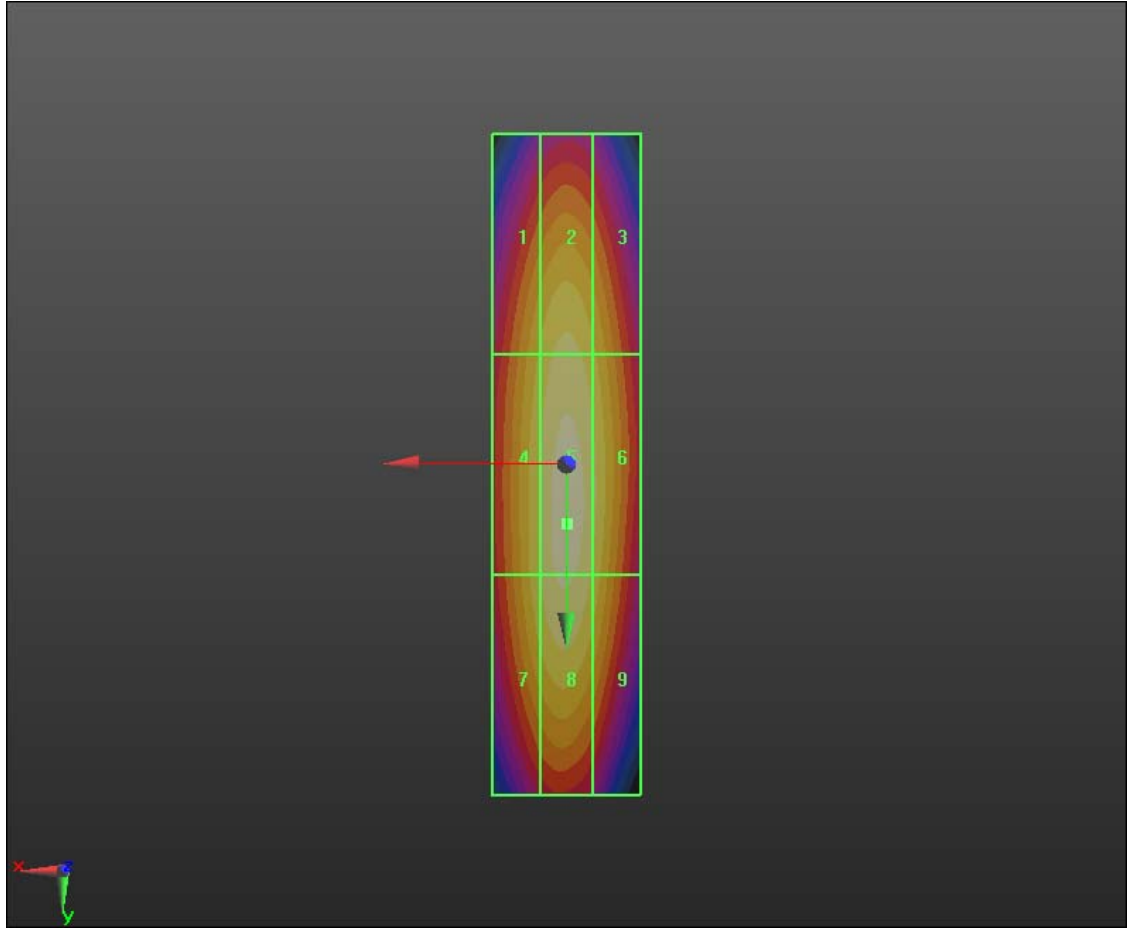
Grid 1 <b>0.151 M4</b>	Grid 2 <b>0.158 M4</b>	Grid 3 <b>0.151 M4</b>
Grid 4 <b>0.157 M4</b>	Grid 5 <b>0.166 M4</b>	Grid 6 <b>0.159 M4</b>
Grid 7 <b>0.156 M4</b>	Grid 8 <b>0.164 M4</b>	Grid 9 <b>0.155 M4</b>

Author Data  
**Daoud Attayi**


Dates of Test  
**Jan. 12-19, 2011**  
**Feb. 28-Mar. 01, 2011**

Report No  
**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW**  
**L6ARDP70UW**



0 dB = 0.170A/m

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Date/Time: 2/28/2011 3:45:30 PM

Test Laboratory: RIM Testing Services

HAC RF\_H-Field\_PMF\_AM80%835 MHz

**DUT: HAC-Dipole 835 MHz; Type: D835V3**

Communication System: AM 80%; 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
- 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 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 = 0.106 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm



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Reference Value = 0.113 A/m; Power Drift = 0.0097 dB

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

Peak H-field in A/m

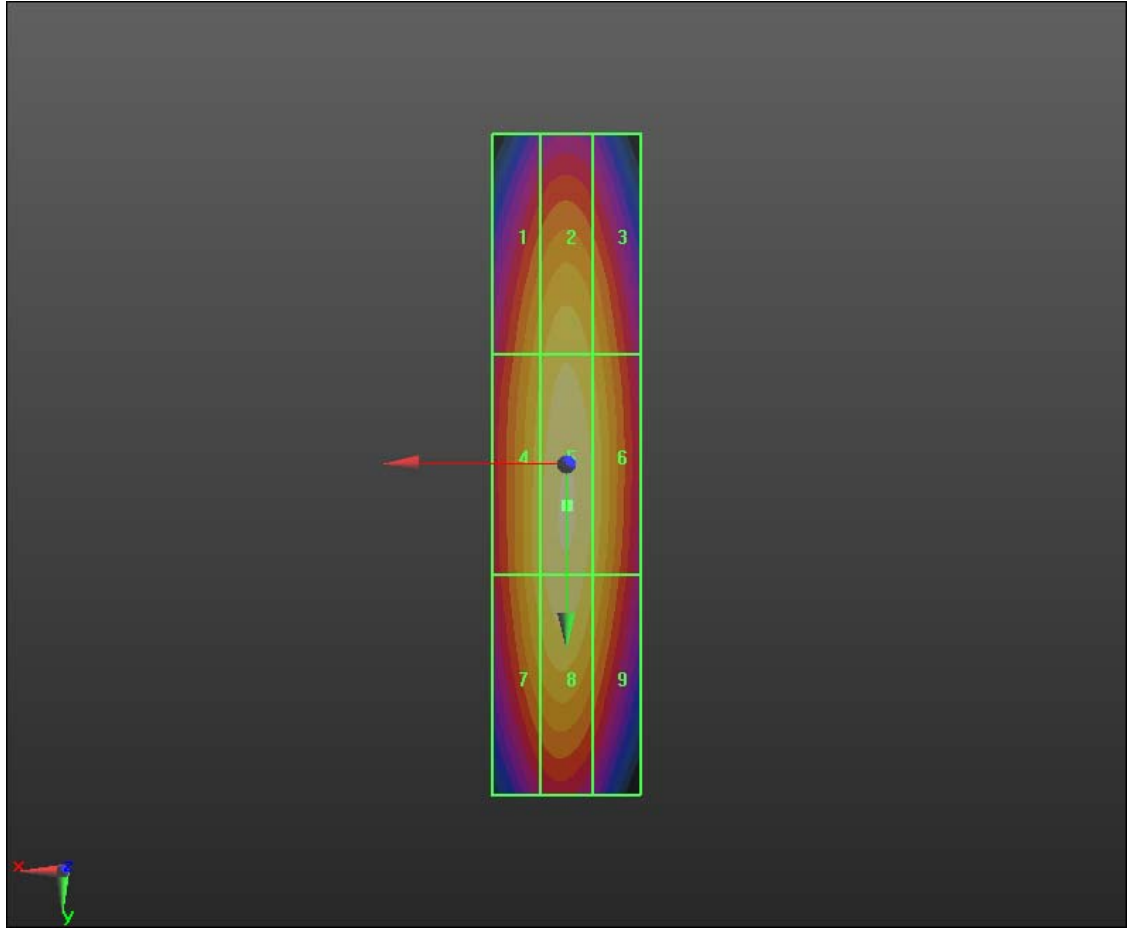
Grid 1	Grid 2	Grid 3
<b>0.096 M4</b>	<b>0.100 M4</b>	<b>0.096 M4</b>
Grid 4	Grid 5	Grid 6
<b>0.100 M4</b>	<b>0.106 M4</b>	<b>0.101 M4</b>
Grid 7	Grid 8	Grid 9
<b>0.100 M4</b>	<b>0.104 M4</b>	<b>0.098 M4</b>

Author Data  
**Daoud Attayi**


Dates of Test  
**Jan. 12-19, 2011**  
**Feb. 28-Mar. 01, 2011**

Report No  
**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW**  
**L6ARDP70UW**



0 dB = 0.110A/m

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Date/Time: 2/28/2011 3:21:34 PM

Test Laboratory: RIM Testing Services

HAC RF\_H-Field\_validation\_1880 MHz

**DUT: HAC Dipole 1880 MHz; Type: CD1880V3**

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
- 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 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 = 0.455 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

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Reference Value = 0.483 A/m; Power Drift = -0.0087 dB

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

Peak H-field in A/m

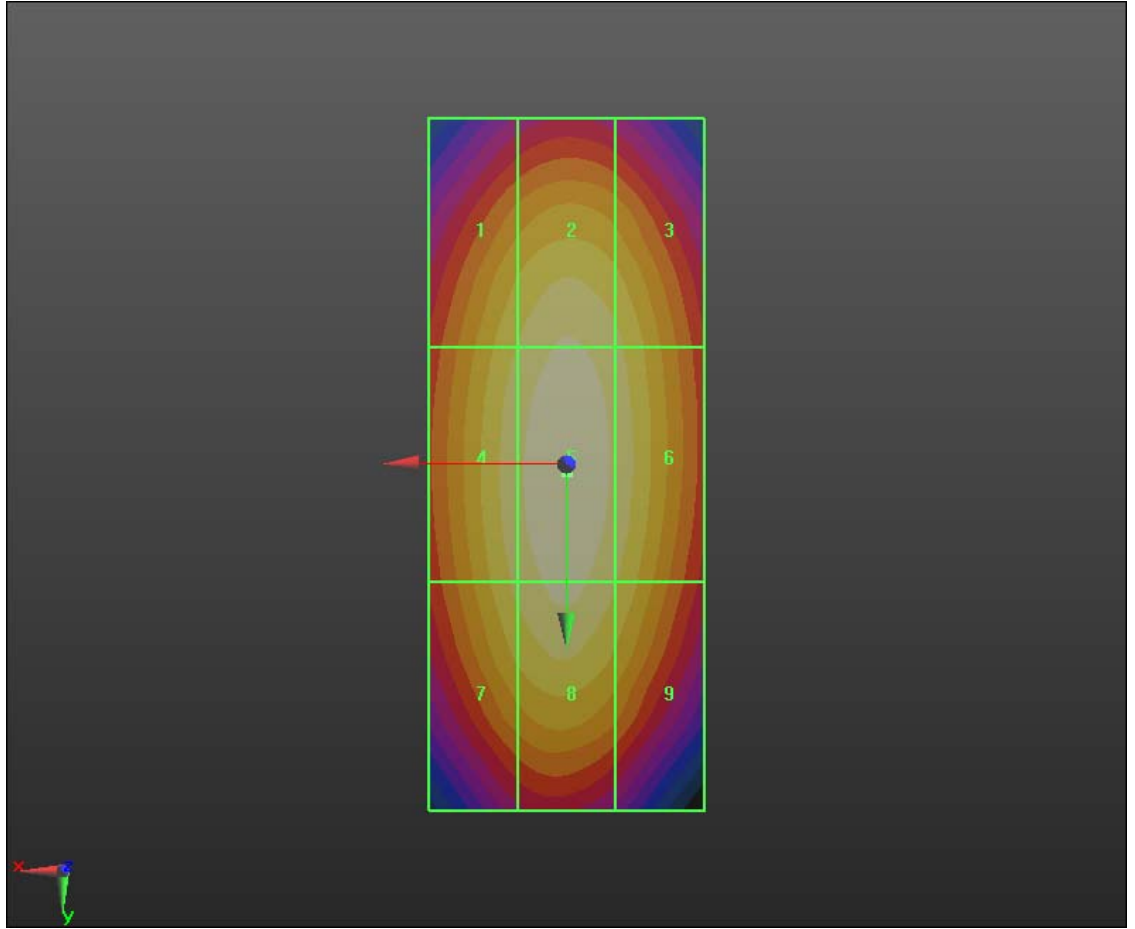
Grid 1 <b>0.424 M2</b>	Grid 2 <b>0.443 M2</b>	Grid 3 <b>0.428 M2</b>
Grid 4 <b>0.437 M2</b>	Grid 5 <b>0.455 M2</b>	Grid 6 <b>0.438 M2</b>
Grid 7 <b>0.428 M2</b>	Grid 8 <b>0.446 M2</b>	Grid 9 <b>0.424 M2</b>

Author Data  
**Daoud Attayi**


Dates of Test  
**Jan. 12-19, 2011**  
**Feb. 28-Mar. 01, 2011**

Report No  
**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW**  
**L6ARDP70UW**



0 dB = 0.460A/m

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Date/Time: 2/28/2011 2:57:08 PM

Test Laboratory: RIM Testing Services

HAC RF\_H-Field\_PMF\_UMTS\_band II\_1880 MHz

**DUT: HAC Dipole 1880 MHz; Type: CD1880V3**

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: 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 = 0.138 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

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Reference Value = 0.147 A/m; Power Drift = 0.04 dB

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

Peak H-field in A/m

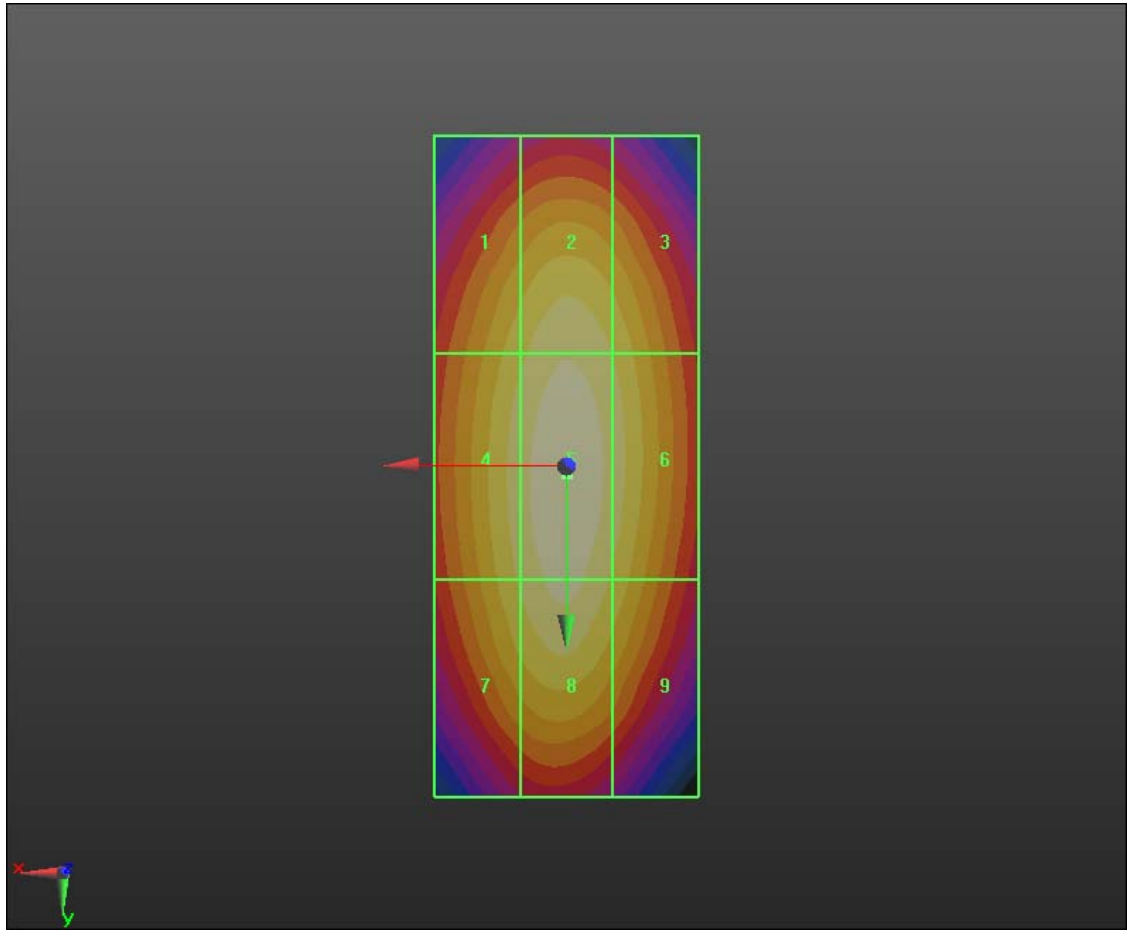
Grid 1 <b>0.127 M4</b>	Grid 2 <b>0.134 M4</b>	Grid 3 <b>0.128 M4</b>
Grid 4 <b>0.132 M4</b>	Grid 5 <b>0.138 M4</b>	Grid 6 <b>0.132 M4</b>
Grid 7 <b>0.129 M4</b>	Grid 8 <b>0.136 M4</b>	Grid 9 <b>0.127 M4</b>

Author Data  
**Daoud Attayi**

Dates of Test  
**Jan. 12-19, 2011**  
**Feb. 28-Mar. 01, 2011**


Report No  
**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW**  
**L6ARDP70UW**



0 dB = 0.140A/m



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Date/Time: 2/28/2011 2:40:44 PM

Test Laboratory: RIM Testing Services

HAC RF\_H-Field\_PMF\_CW1880 MHz

**DUT: HAC Dipole 1880 MHz; Type: CD1880V3**

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: TCoil 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: DASYS2, 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 = 0.155 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

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Reference Value = 0.163 A/m; Power Drift = 0.06 dB

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

Peak H-field in A/m

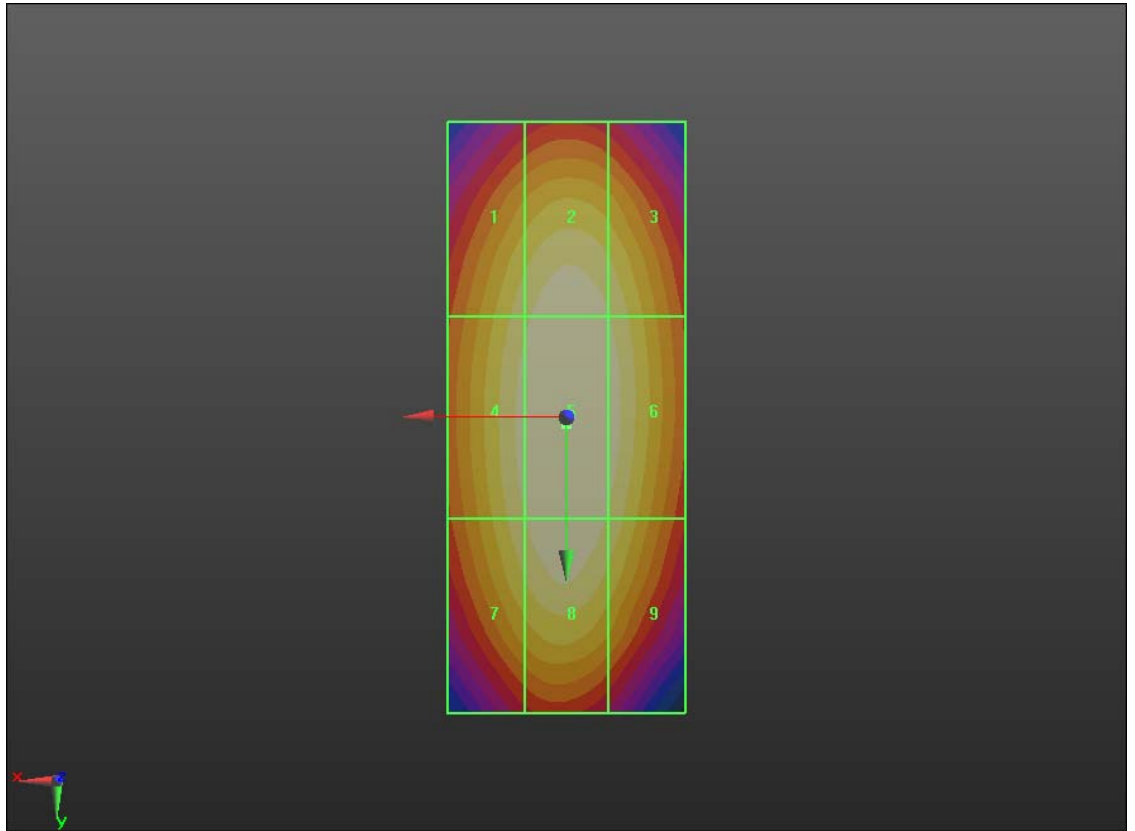
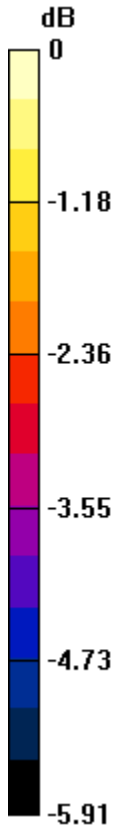
Grid 1 <b>0.142 M4</b>	Grid 2 <b>0.149 M4</b>	Grid 3 <b>0.144 M4</b>
Grid 4 <b>0.147 M4</b>	Grid 5 <b>0.155 M4</b>	Grid 6 <b>0.148 M4</b>
Grid 7 <b>0.143 M4</b>	Grid 8 <b>0.151 M4</b>	Grid 9 <b>0.143 M4</b>

Author Data  
**Daoud Attayi**


Dates of Test  
**Jan. 12-19, 2011  
Feb. 28-Mar. 01, 2011**

Report No  
**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW  
L6ARDP70UW**



0 dB = 0.150A/m

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Date/Time: 2/28/2011 2:44:44 PM

Test Laboratory: RIM Testing Services

HAC RF\_H-Field\_PMF\_AM80% 1880 MHz

**DUT: HAC Dipole 1880 MHz; Type: CD1880V3**

Communication System: AM 80%; 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: TCoil 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: DASYS2, 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 = 0.099 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

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Reference Value = 0.106 A/m; Power Drift = 0.0091 dB

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

Peak H-field in A/m

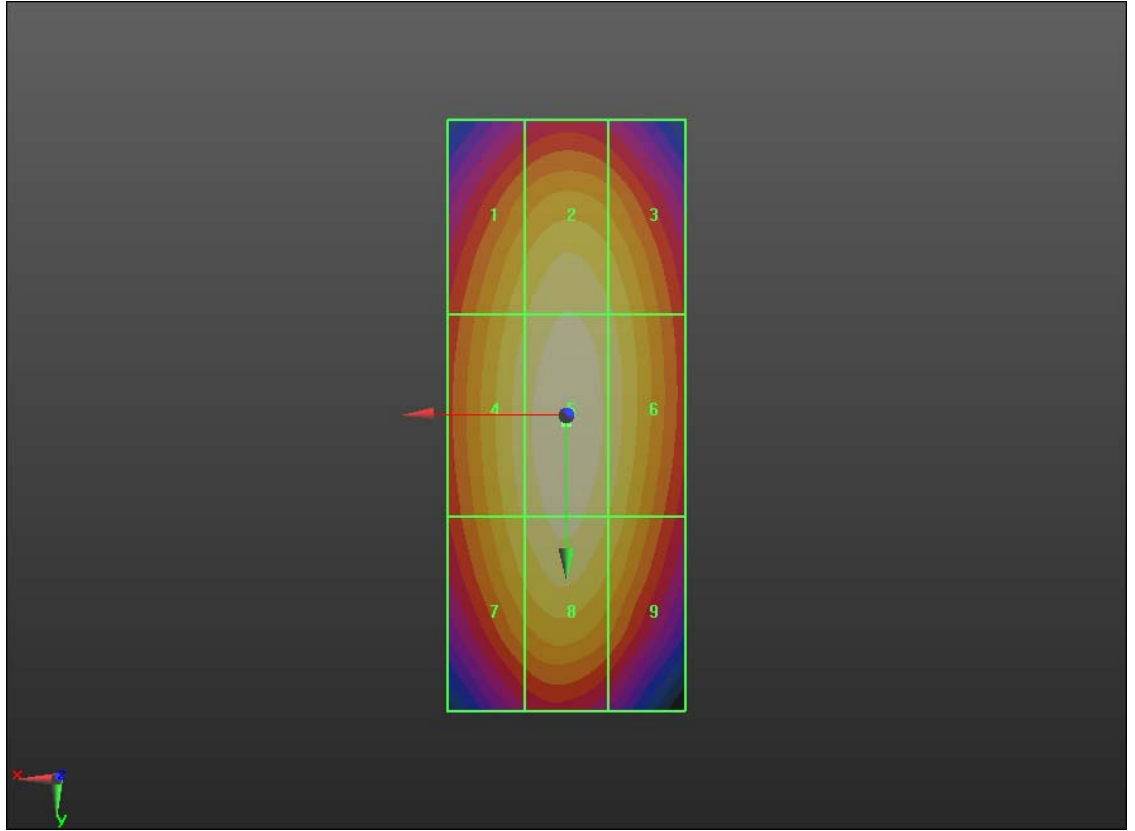
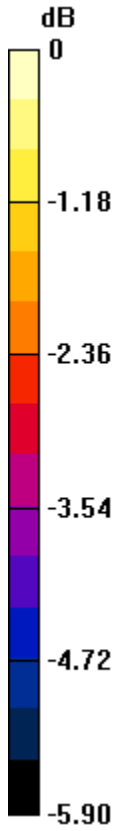
Grid 1 <b>0.091 M4</b>	Grid 2 <b>0.096 M4</b>	Grid 3 <b>0.092 M4</b>
Grid 4 <b>0.094 M4</b>	Grid 5 <b>0.099 M4</b>	Grid 6 <b>0.095 M4</b>
Grid 7 <b>0.092 M4</b>	Grid 8 <b>0.097 M4</b>	Grid 9 <b>0.091 M4</b>

Author Data  
**Daoud Attayi**


Dates of Test  
**Jan. 12-19, 2011**  
**Feb. 28-Mar. 01, 2011**

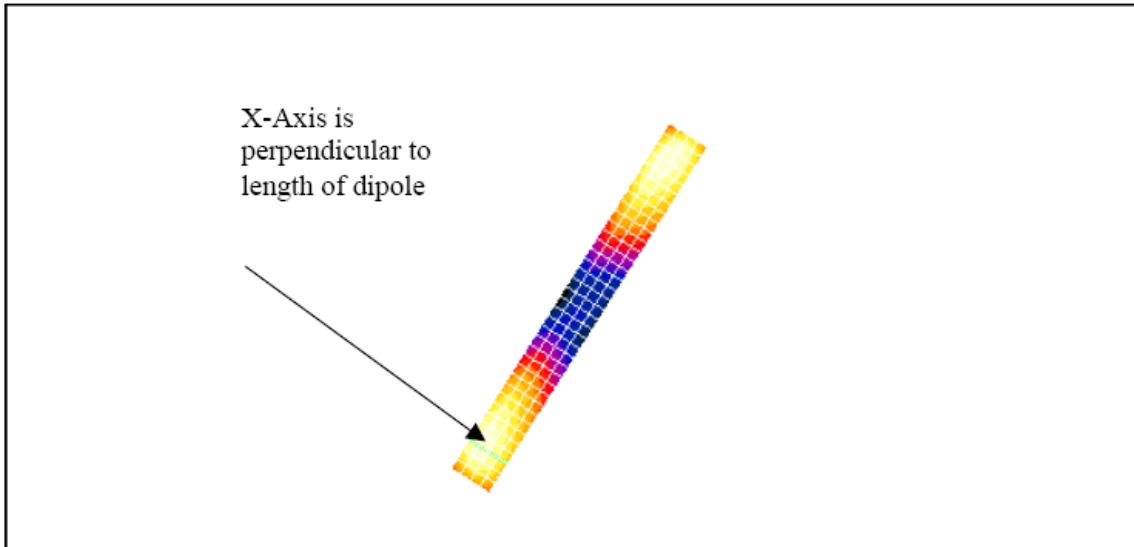
Report No  
**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW**  
**L6ARDP70UW**



0 dB = 0.100A/m


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

#### Comparison of 5mm and 2mm step sizes

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

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

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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/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

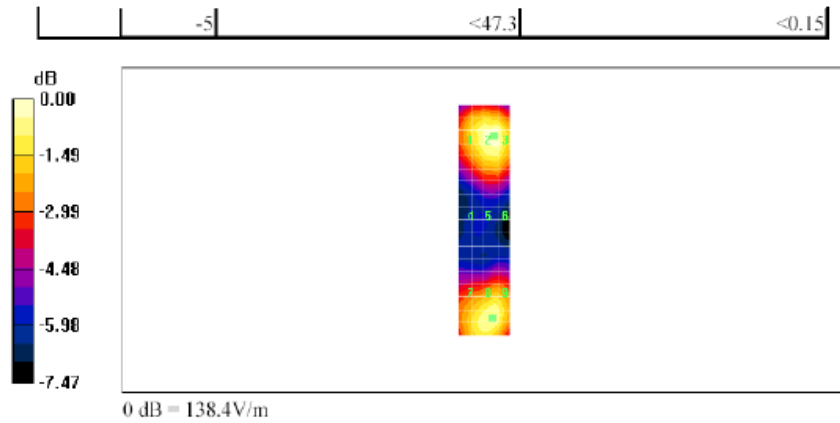
file://C:\Program%20Files\DASY4\Print\_Templates\Dipole%20Validation%201880%20... 14/07/2005




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

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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/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
<b>123.1</b>	<b>138.6</b>	<b>138.6</b>	<b>123.1</b>	<b>138.6</b>	<b>138.6</b>
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
<b>81.4</b>	<b>92.1</b>	<b>91.6</b>	<b>81.4</b>	<b>92.1</b>	<b>91.6</b>
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
<b>121.3</b>	<b>131.2</b>	<b>131.0</b>	<b>121.3</b>	<b>131.2</b>	<b>131.0</b>

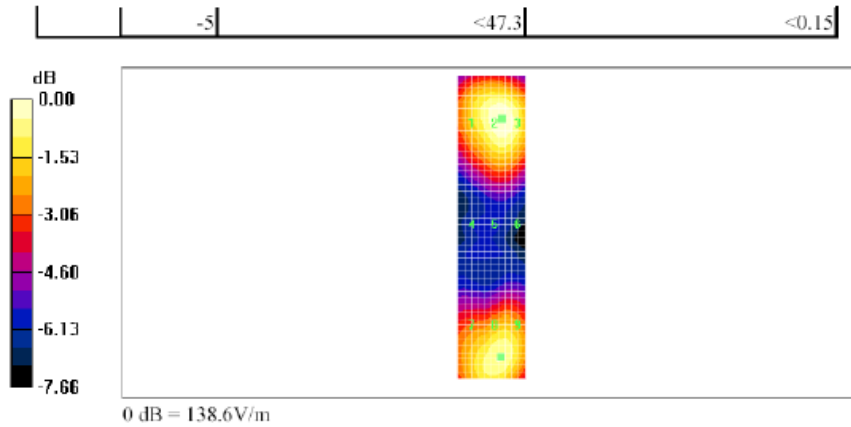
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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


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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/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>

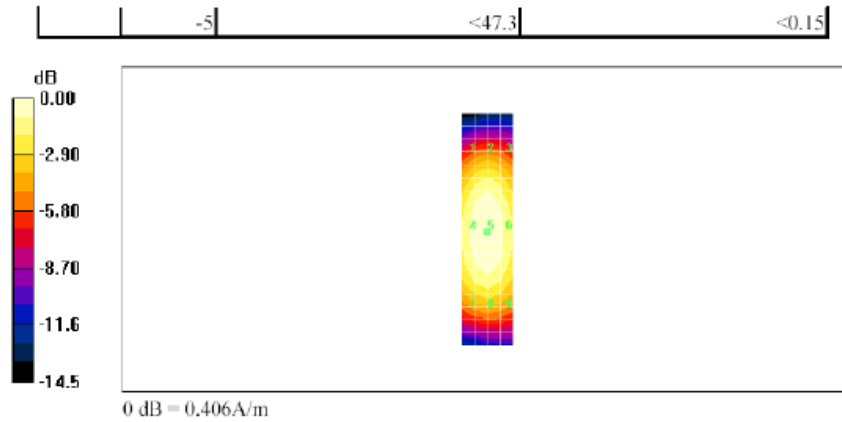
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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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/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>

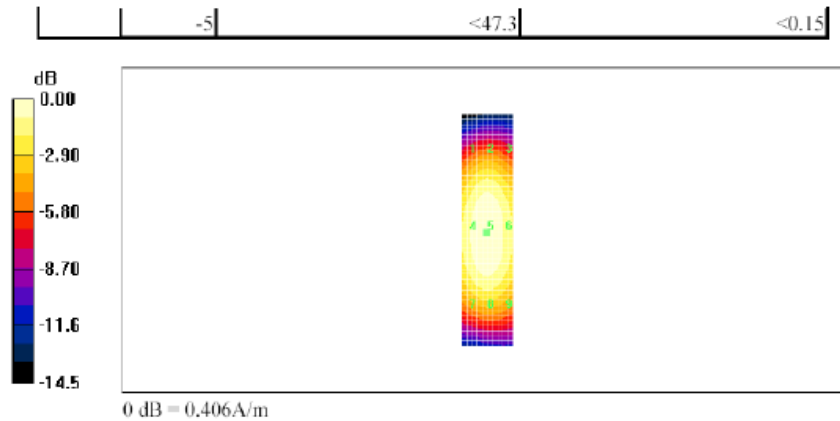
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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

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### A.3 RF emissions plots



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Date/Time: 1/19/2011 5:04:29 PM

Test Laboratory: RIM Testing Services

HAC\_E\_GSM850\_low\_chan

**DUT: BlackBerry Smartphone**

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - ER3D - 2007: 15 mm from Probe Center to the**

**Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:**

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 87.7 V/m; Power Drift = -0.180 dB

Maximum value of Total (measured) = 67.2 V/m

**E Scan - ER3D - 2007: 15 mm from Probe Center to the**

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 195.4 V/m

Probe Modulation Factor = 2.90

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 87.7 V/m; Power Drift = -0.180 dB

Hearing Aid Near-Field Category: **M3 (AWF -5 dB)**

Peak E-field in V/m

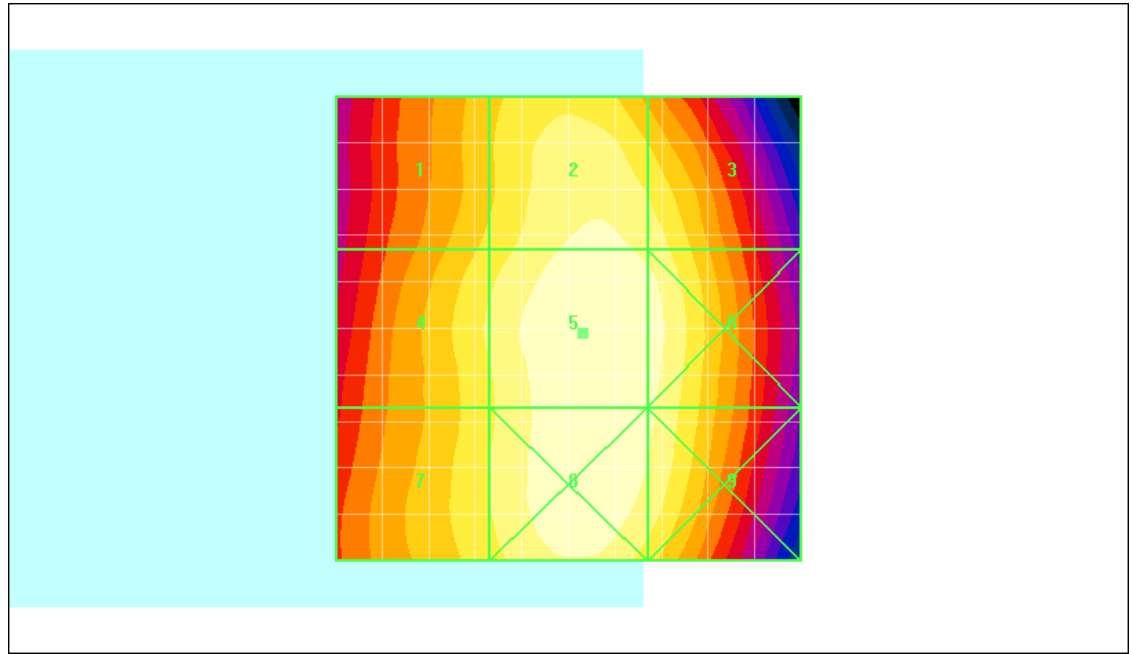
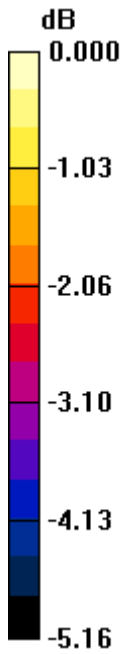
Grid 1 <b>176.0 M3</b>	Grid 2 <b>190.1 M3</b>	Grid 3 <b>186.0 M3</b>
Grid 4 <b>181.7 M3</b>	Grid 5 <b>195.4 M3</b>	Grid 6 <b>191.6 M3</b>
Grid 7 <b>180.8 M3</b>	Grid 8 <b>194.4 M3</b>	Grid 9 <b>189.5 M3</b>

Author Data  
**Daoud Attayi**


Dates of Test  
**Jan. 12-19, 2011**  
**Feb. 28-Mar. 01, 2011**

Report No  
**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW**  
**L6ARDP70UW**



0 dB = 195.4V/m

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Date/Time: 1/19/2011 5:11:37 PM

Test Laboratory: RIM Testing Services

HAC\_E\_GSM850\_mid\_chan

**DUT: BlackBerry Smartphone**

Communication System: GSM 850; Frequency: 836.8 MHz; Duty Cycle: 1:8.3

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - ER3D - 2007: 15 mm from Probe Center to the**

**Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:**

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 91.2 V/m; Power Drift = 0.212 dB

Maximum value of Total (measured) = 72.8 V/m

**E Scan - ER3D - 2007: 15 mm from Probe Center to the**

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 211.5 V/m

Probe Modulation Factor = 2.90

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 91.2 V/m; Power Drift = 0.212 dB

**Hearing Aid Near-Field Category: M3 (AWF -5 dB)**

Peak E-field in V/m

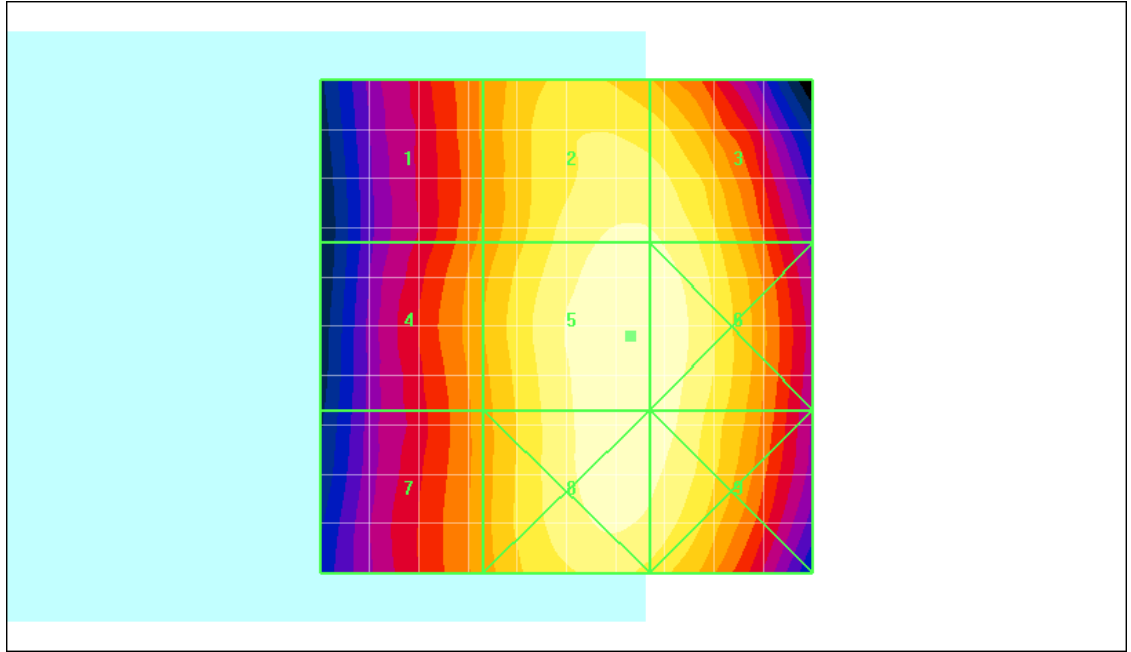
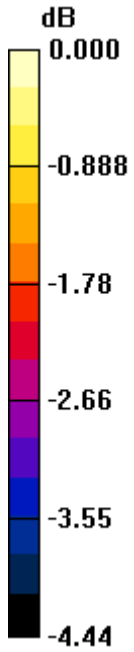
Grid 1	Grid 2	Grid 3
<b>180.3 M3</b>	<b>206.1 M3</b>	<b>205.7 M3</b>
Grid 4	Grid 5	Grid 6
<b>184.4 M3</b>	<b>211.5 M3</b>	<b>211.2 M3</b>
Grid 7	Grid 8	Grid 9
<b>182.1 M3</b>	<b>209.9 M3</b>	<b>209.0 M3</b>

Author Data  
**Daoud Attayi**


Dates of Test  
**Jan. 12-19, 2011**  
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**RTS-2605-1102-02A**

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**L6ARDP70UW**



0 dB = 211.5V/m

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Date/Time: 1/19/2011 5:18:04 PM

Test Laboratory: RIM Testing Services

HAC\_E\_GSM850\_high\_chan

**DUT: BlackBerry Smartphone**

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - ER3D - 2007: 15 mm from Probe Center to the**

**Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:**

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 96.9 V/m; Power Drift = -0.021 dB

Maximum value of Total (measured) = 76.7 V/m

**E Scan - ER3D - 2007: 15 mm from Probe Center to the**

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 223.9 V/m

Probe Modulation Factor = 2.90

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 96.9 V/m; Power Drift = -0.021 dB

**Hearing Aid Near-Field Category: M3 (AWF -5 dB)**

Peak E-field in V/m

Grid 1 <b>196.0 M3</b>	Grid 2 <b>221.1 M3</b>	Grid 3 <b>220.8 M3</b>
Grid 4 <b>192.0 M3</b>	Grid 5 <b>223.9 M3</b>	Grid 6 <b>223.7 M3</b>
Grid 7 <b>183.4 M3</b>	Grid 8 <b>217.6 M3</b>	Grid 9 <b>217.0 M3</b>

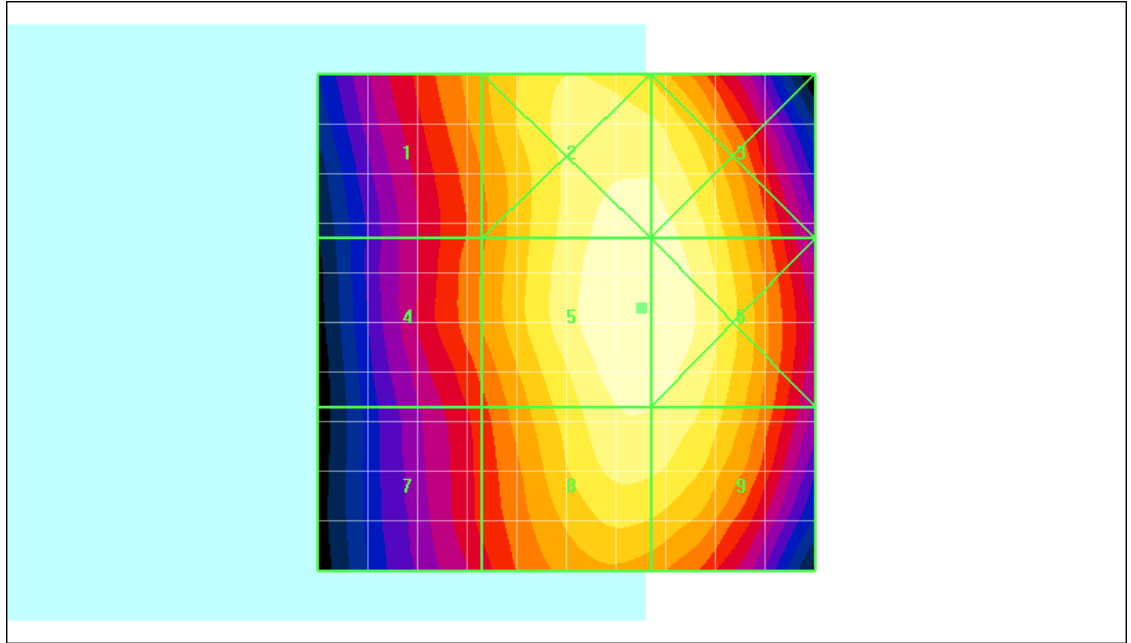
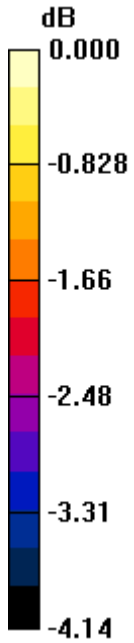


Author Data  
**Daoud Attayi**


Dates of Test  
**Jan. 12-19, 2011**  
**Feb. 28-Mar. 01, 2011**

Report No  
**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW**  
**L6ARDP70UW**



0 dB = 223.9V/m

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Date/Time: 1/19/2011 5:23:08 PM

Test Laboratory: RIM Testing Services

HAC\_E\_GSM850\_high\_chan\_Telecoil\_Center

**DUT: BlackBerry Smartphone**

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - ER3D - 2007: 15 mm from Probe Center to the**

**Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:**

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 96.4 V/m; Power Drift = -0.071 dB

Maximum value of Total (measured) = 77.1 V/m

**E Scan - ER3D - 2007: 15 mm from Probe Center to the**

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 222.4 V/m

Probe Modulation Factor = 2.90

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 96.4 V/m; Power Drift = -0.071 dB

Hearing Aid Near-Field Category: **M3 (AWF -5 dB)**

Peak E-field in V/m

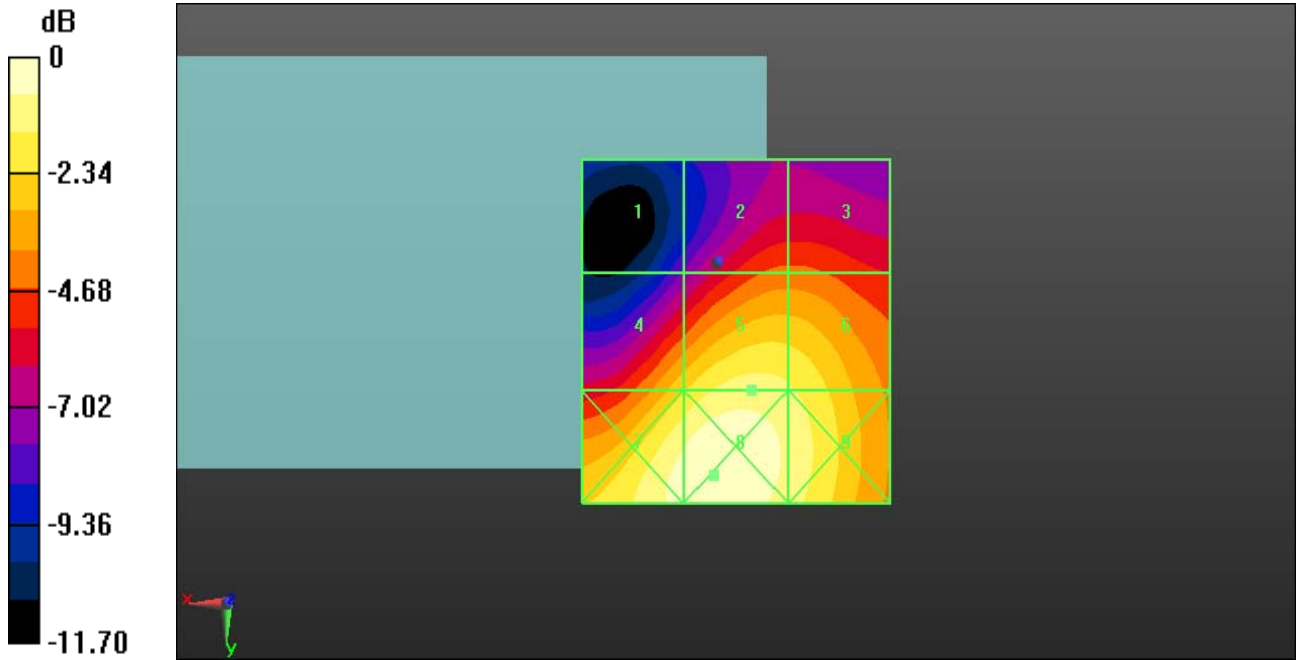
Grid 1 <b>183.5 M3</b>	Grid 2 <b>217.8 M3</b>	Grid 3 <b>218.5 M3</b>
Grid 4 <b>181.0 M3</b>	Grid 5 <b>222.4 M3</b>	Grid 6 <b>223.7 M3</b>
Grid 7 <b>174.8 M3</b>	Grid 8 <b>218.2 M3</b>	Grid 9 <b>219.9 M3</b>

Author Data  
**Daoud Attayi**


Dates of Test  
**Jan. 12-19, 2011**  
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**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW**  
**L6ARDP70UW**



0 dB = 223.7V/m

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Date/Time: 1/19/2011 5:28:49 PM

Test Laboratory: RIM Testing Services

HAC\_E\_GSM1900\_low\_chan

**DUT: BlackBerry Smartphone**

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - ER3D - 2007: 15 mm from Probe Center to the**

**Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:**

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 13.6 V/m; Power Drift = 0.040 dB

Maximum value of Total (measured) = 24.6 V/m

**E Scan - ER3D - 2007: 15 mm from Probe Center to the**

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 53.8 V/m

Probe Modulation Factor = 2.90

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 13.6 V/m; Power Drift = 0.040 dB

**Hearing Aid Near-Field Category: M3 (AWF -5 dB)**

Peak E-field in V/m

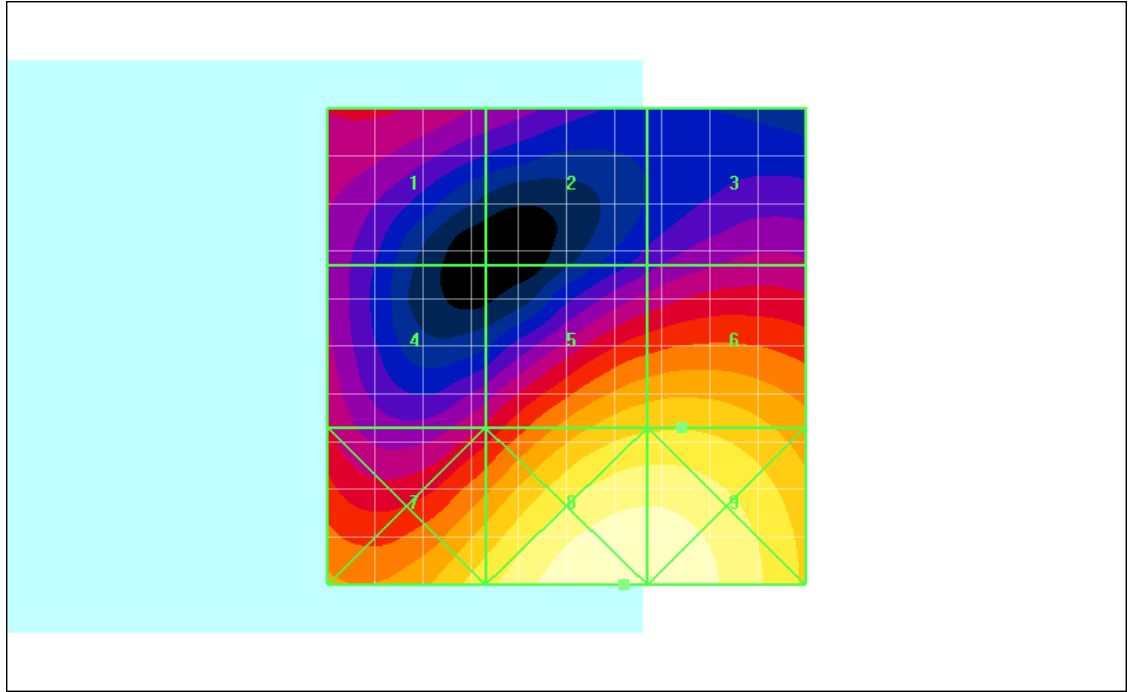
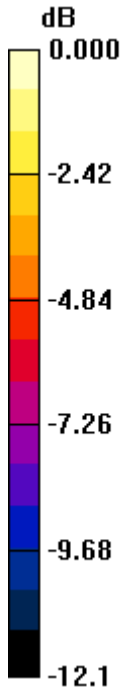
Grid 1 <b>34.7 M4</b>	Grid 2 <b>30.8 M4</b>	Grid 3 <b>32.2 M4</b>
Grid 4 <b>34.7 M4</b>	Grid 5 <b>53.3 M3</b>	Grid 6 <b>53.8 M3</b>
Grid 7 <b>57.6 M3</b>	Grid 8 <b>71.4 M3</b>	Grid 9 <b>70.9 M3</b>

Author Data  
**Daoud Attayi**


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FCC ID  
**L6ARDH70CW  
 L6ARDP70UW**



0 dB = 71.4V/m

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Date/Time: 1/19/2011 5:34:53 PM

Test Laboratory: RIM Testing Services

HAC\_E\_GSM1900\_mid\_chan

**DUT: BlackBerry Smartphone**

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - ER3D - 2007: 15 mm from Probe Center to the**

**Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:**

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 15.2 V/m; Power Drift = -0.099 dB

Maximum value of Total (measured) = 23.7 V/m

**E Scan - ER3D - 2007: 15 mm from Probe Center to the**

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



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dx=5mm, dy=5mm

Maximum value of peak Total field = 53.3 V/m

Probe Modulation Factor = 2.90

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 15.2 V/m; Power Drift = -0.099 dB

**Hearing Aid Near-Field Category: M3 (AWF -5 dB)**

Peak E-field in V/m

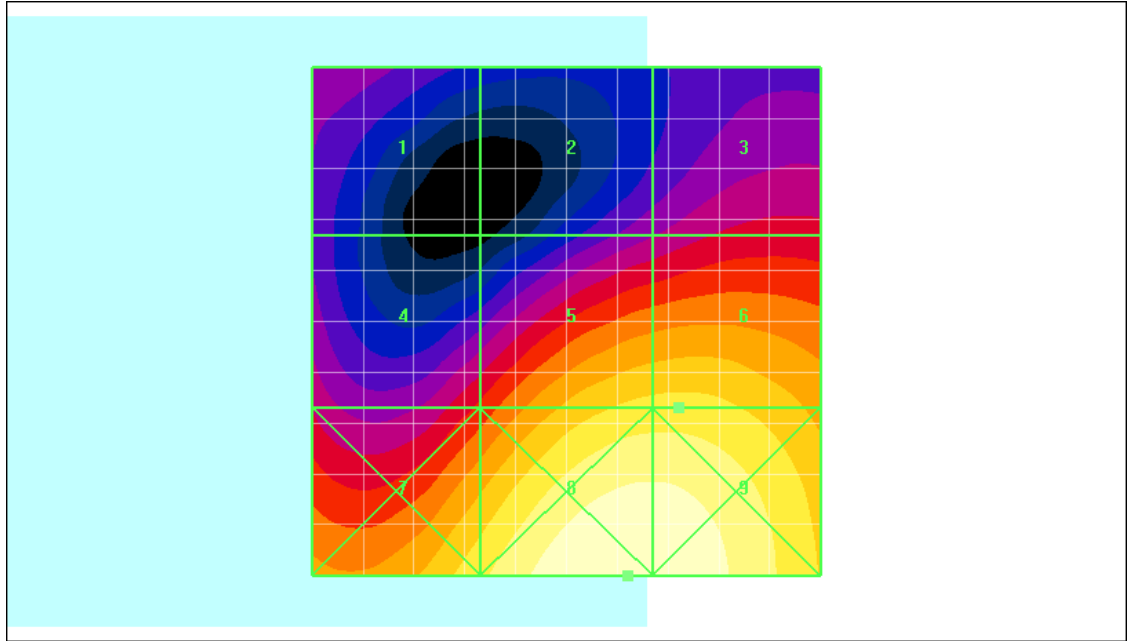
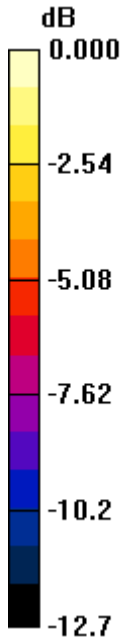
Grid 1 <b>28.3 M4</b>	Grid 2 <b>28.5 M4</b>	Grid 3 <b>32.9 M4</b>
Grid 4 <b>35.7 M4</b>	Grid 5 <b>53.1 M3</b>	Grid 6 <b>53.3 M3</b>
Grid 7 <b>55.1 M3</b>	Grid 8 <b>68.6 M3</b>	Grid 9 <b>68.0 M3</b>

Author Data  
**Daoud Attayi**


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FCC ID  
**L6ARDH70CW  
 L6ARDP70UW**



0 dB = 68.6V/m

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Date/Time: 1/19/2011 5:44:46 PM

Test Laboratory: RIM Testing Services

HAC\_E\_GSM1900\_high\_chan

**DUT: BlackBerry Smartphone**

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - ER3D - 2007: 15 mm from Probe Center to the**

**Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:**

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 15.6 V/m; Power Drift = -0.316 dB

Maximum value of Total (measured) = 22.7 V/m

**E Scan - ER3D - 2007: 15 mm from Probe Center to the**

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 52.5 V/m

Probe Modulation Factor = 2.90

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 15.6 V/m; Power Drift = -0.316 dB

Hearing Aid Near-Field Category: **M3 (AWF -5 dB)**

Peak E-field in V/m

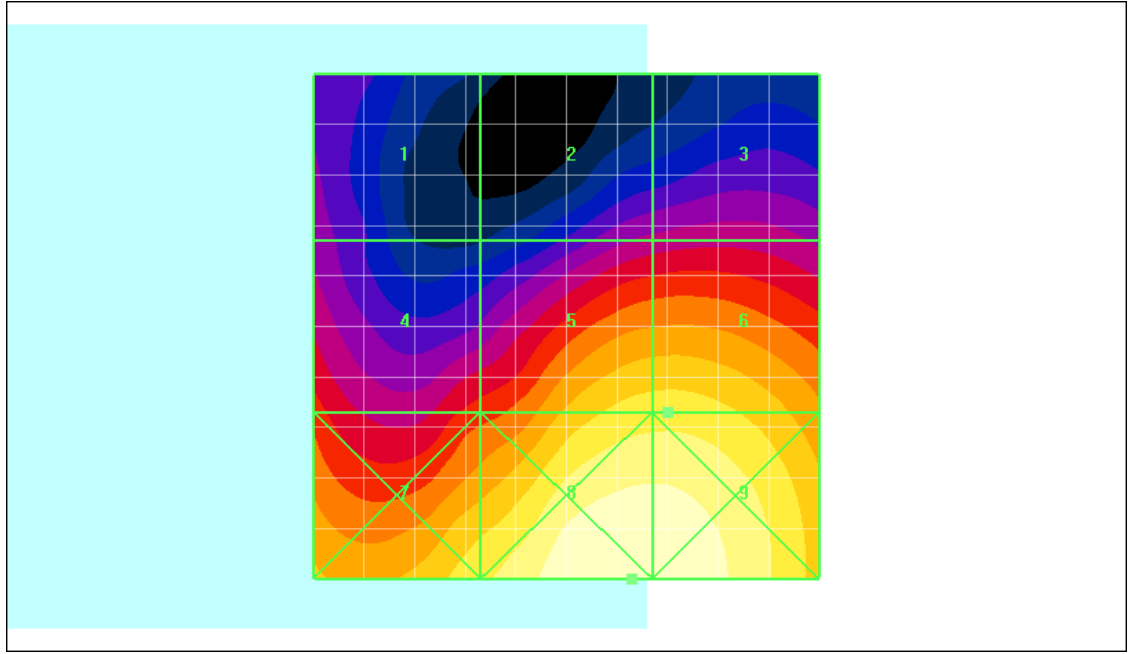
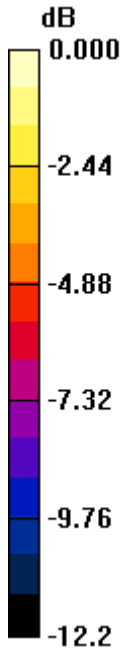
Grid 1 <b>27.4 M4</b>	Grid 2 <b>29.4 M4</b>	Grid 3 <b>30.5 M4</b>
Grid 4 <b>36.2 M4</b>	Grid 5 <b>52.4 M3</b>	Grid 6 <b>52.5 M3</b>
Grid 7 <b>53.5 M3</b>	Grid 8 <b>66.0 M3</b>	Grid 9 <b>65.7 M3</b>

Author Data  
**Daoud Attayi**


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FCC ID  
**L6ARDH70CW  
 L6ARDP70UW**



0 dB = 66.0V/m

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Date/Time: 1/19/2011 5:52:09 PM

Test Laboratory: RIM Testing Services

HAC\_E\_GSM1900\_low\_chan\_Telecoil\_Center

**DUT: BlackBerry Smartphone**

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - ER3D - 2007: 15 mm from Probe Center to the**

**Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:**

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 13.5 V/m; Power Drift = -0.186 dB

Maximum value of Total (measured) = 23.7 V/m

**E Scan - ER3D - 2007: 15 mm from Probe Center to the**

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 47.8 V/m

Probe Modulation Factor = 2.90

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 13.5 V/m; Power Drift = -0.186 dB

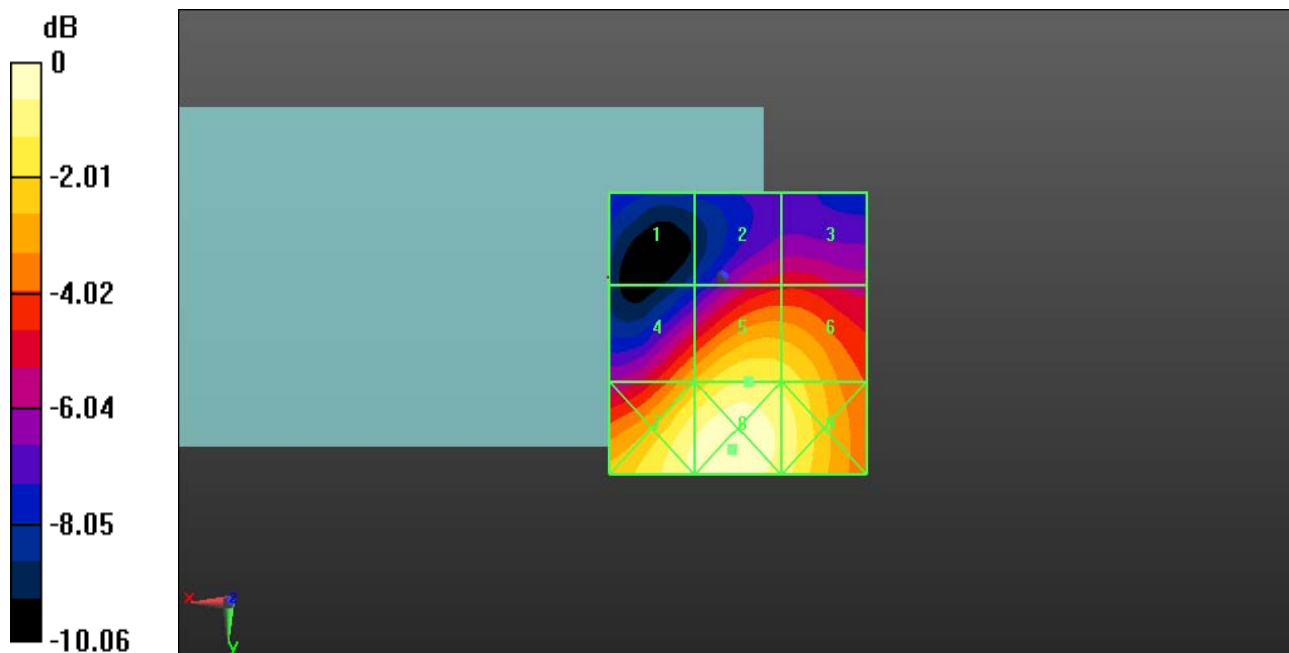
Hearing Aid Near-Field Category: **M3 (AWF -5 dB)**

Peak E-field in V/m


Grid 1 <b>34.2 M4</b>	Grid 2 <b>32.8 M4</b>	Grid 3 <b>29.7 M4</b>
Grid 4 <b>36.9 M4</b>	Grid 5 <b>45.5 M4</b>	Grid 6 <b>48.4 M3</b>
Grid 7 <b>47.8 M3</b>	Grid 8 <b>68.5 M3</b>	Grid 9 <b>68.9 M3</b>

0 dB = 68.9V/m

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Date/Time: 1/19/2011 6:55:12 PM

Test Laboratory: RIM Testing Services

HAC\_E\_CDMA800\_low\_chan

**DUT: BlackBerry Smartphone**

Communication System: CDMA 800; Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - ER3D - 2007: 15 mm from Probe Center to the**

**Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:**

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 30.4 V/m; Power Drift = 0.179 dB

Maximum value of Total (measured) = 27.0 V/m

**E Scan - ER3D - 2007: 15 mm from Probe Center to the**

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 27.3 V/m

Probe Modulation Factor = 1.01

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 30.4 V/m; Power Drift = 0.179 dB

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

Peak E-field in V/m

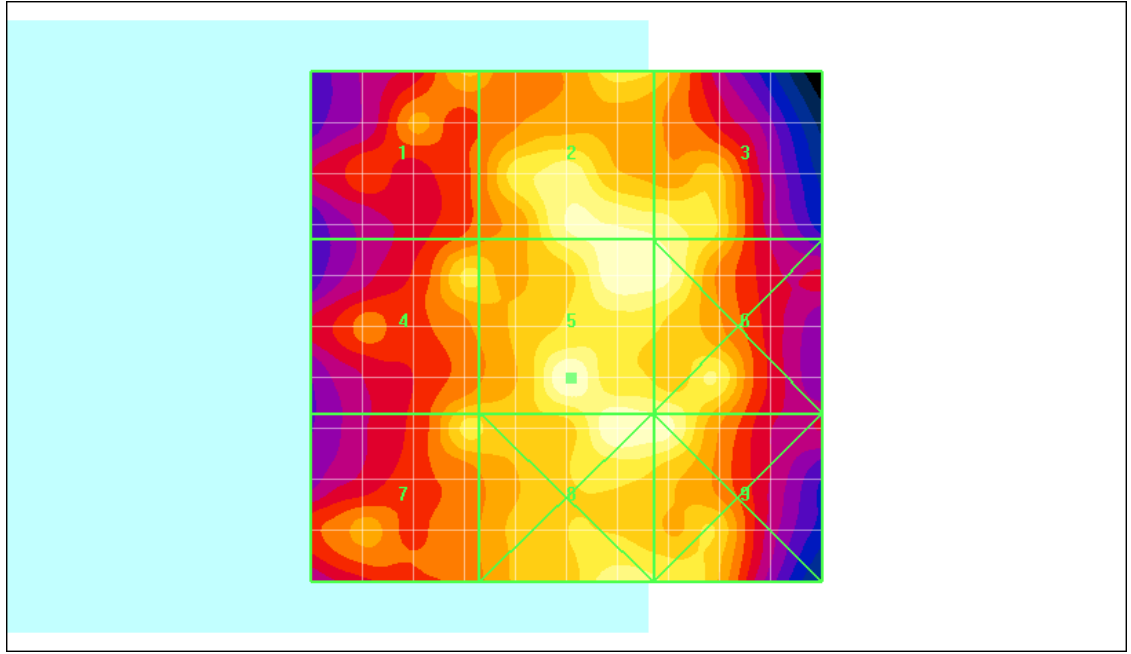
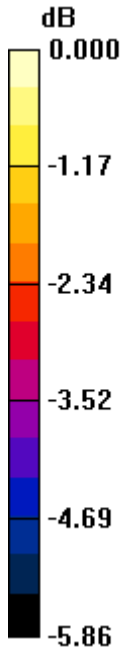
Grid 1 <b>23.1 M4</b>	Grid 2 <b>26.5 M4</b>	Grid 3 <b>26.3 M4</b>
Grid 4 <b>24.2 M4</b>	Grid 5 <b>27.3 M4</b>	Grid 6 <b>26.8 M4</b>
Grid 7 <b>24.2 M4</b>	Grid 8 <b>27.2 M4</b>	Grid 9 <b>26.7 M4</b>

Author Data  
**Daoud Attayi**


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FCC ID  
**L6ARDH70CW  
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0 dB = 27.3V/m

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Date/Time: 1/19/2011 6:59:51 PM

Test Laboratory: RIM Testing Services

HAC\_E\_CDMA800\_mid\_chan

**DUT: BlackBerry Smartphone**

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - ER3D - 2007: 15 mm from Probe Center to the**

**Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:**

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 34.5 V/m; Power Drift = -0.044 dB

Maximum value of Total (measured) = 27.1 V/m

**E Scan - ER3D - 2007: 15 mm from Probe Center to the**

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 27.3 V/m

Probe Modulation Factor = 1.01

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 34.5 V/m; Power Drift = -0.044 dB

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

Peak E-field in V/m

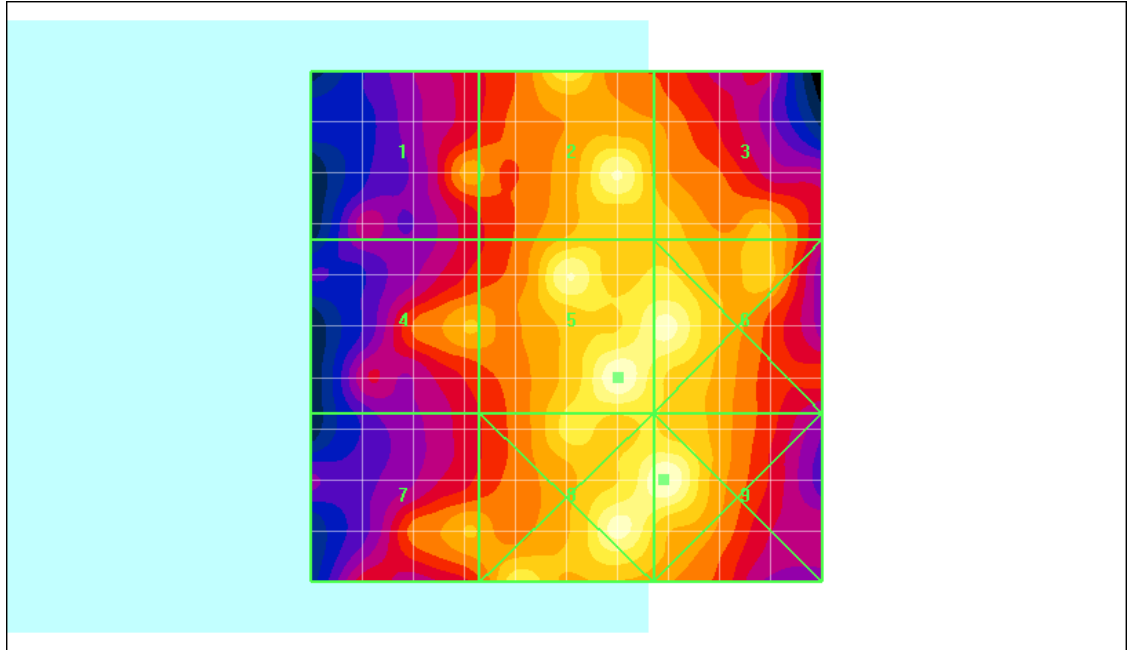
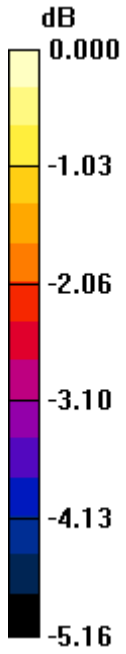
Grid 1 <b>23.0 M4</b>	Grid 2 <b>26.5 M4</b>	Grid 3 <b>23.9 M4</b>
Grid 4 <b>23.5 M4</b>	Grid 5 <b>27.3 M4</b>	Grid 6 <b>26.8 M4</b>
Grid 7 <b>23.5 M4</b>	Grid 8 <b>26.9 M4</b>	Grid 9 <b>27.4 M4</b>

Author Data  
**Daoud Attayi**


Dates of Test  
**Jan. 12-19, 2011**  
**Feb. 28-Mar. 01, 2011**

Report No  
**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW**  
**L6ARDP70UW**



0 dB = 27.4V/m

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Date/Time: 1/19/2011 7:04:41 PM

Test Laboratory: RIM Testing Services

HAC\_E\_CDMA800\_high\_chan

**DUT: BlackBerry Smartphone**

Communication System: CDMA 800; Frequency: 848.52 MHz; Duty Cycle: 1:1

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - ER3D - 2007: 15 mm from Probe Center to the**

**Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:**

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 29.1 V/m; Power Drift = -0.074 dB

Maximum value of Total (measured) = 26.1 V/m

**E Scan - ER3D - 2007: 15 mm from Probe Center to the**

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 26.4 V/m

Probe Modulation Factor = 1.01

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 29.1 V/m; Power Drift = -0.074 dB

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

Peak E-field in V/m

Grid 1 <b>20.9 M4</b>	Grid 2 <b>25.4 M4</b>	Grid 3 <b>24.8 M4</b>
Grid 4 <b>21.3 M4</b>	Grid 5 <b>26.4 M4</b>	Grid 6 <b>25.3 M4</b>
Grid 7 <b>21.7 M4</b>	Grid 8 <b>23.6 M4</b>	Grid 9 <b>24.1 M4</b>

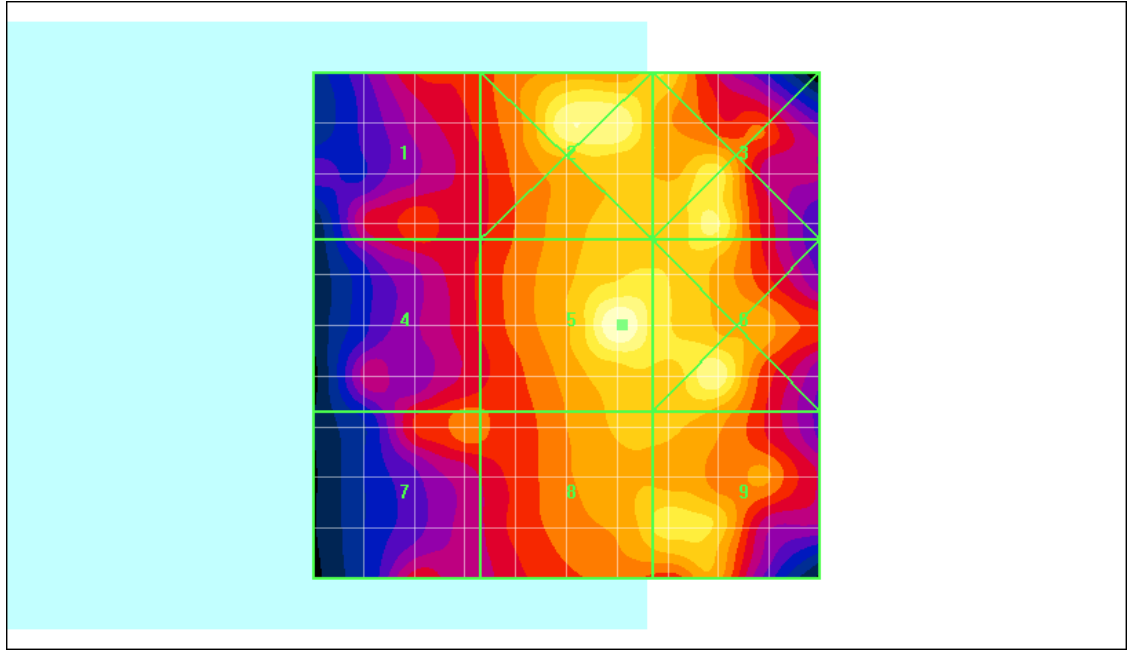
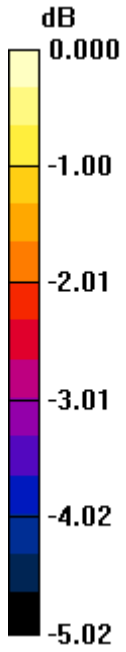


Author Data  
**Daoud Attayi**


Dates of Test  
**Jan. 12-19, 2011**  
**Feb. 28-Mar. 01, 2011**

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FCC ID  
**L6ARDH70CW**  
**L6ARDP70UW**



0 dB = 26.4V/m

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Date/Time: 1/19/2011 7:10:17 PM

Test Laboratory: RIM Testing Services

HAC\_E\_CDMA800\_mid\_chan\_Telecoil\_Center

**DUT: BlackBerry Smartphone**

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - ER3D - 2007: 15 mm from Probe Center to the**

**Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:**

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 30.6 V/m; Power Drift = 0.063 dB

Maximum value of Total (measured) = 27.1 V/m

**E Scan - ER3D - 2007: 15 mm from Probe Center to the**

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 27.1 V/m

Probe Modulation Factor = 1.01


Device Reference Point: 0.000, 0.000, -6.30 mm

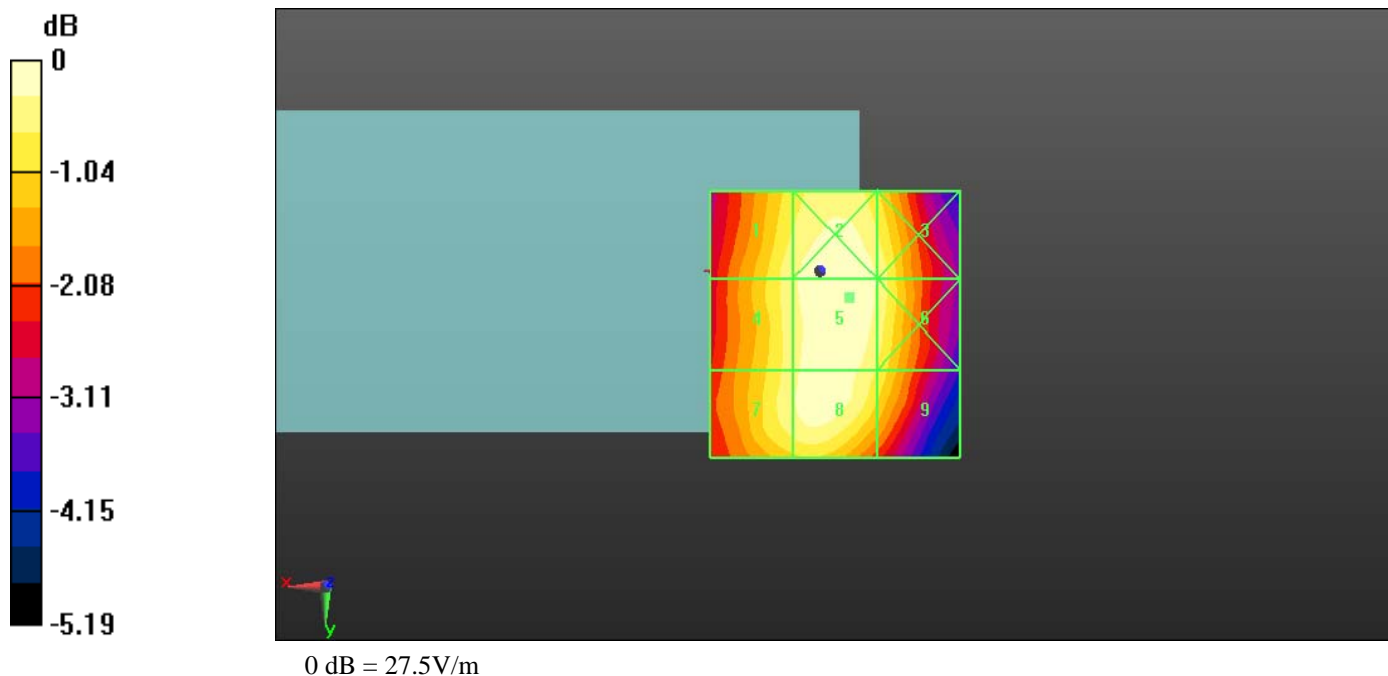
Reference Value = 30.6 V/m; Power Drift = 0.063 dB


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

Peak E-field in V/m

Grid 1 <b>22.7 M4</b>	Grid 2 <b>26.9 M4</b>	Grid 3 <b>26.7 M4</b>
Grid 4 <b>23.0 M4</b>	Grid 5 <b>27.1 M4</b>	Grid 6 <b>27.1 M4</b>
Grid 7 <b>23.5 M4</b>	Grid 8 <b>27.5 M4</b>	Grid 9 <b>27.4 M4</b>

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Date/Time: 1/19/2011 7:17:37 PM

Test Laboratory: RIM Testing Services

HAC\_E\_CDMA1900\_low\_chan

**DUT: BlackBerry Smartphone**

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - ER3D - 2007: 15 mm from Probe Center to the**

**Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:**

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 20.5 V/m; Power Drift = -0.338 dB

Maximum value of Total (measured) = 34.2 V/m

**E Scan - ER3D - 2007: 15 mm from Probe Center to the**

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 26.1 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 20.5 V/m; Power Drift = -0.338 dB

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

Peak E-field in V/m

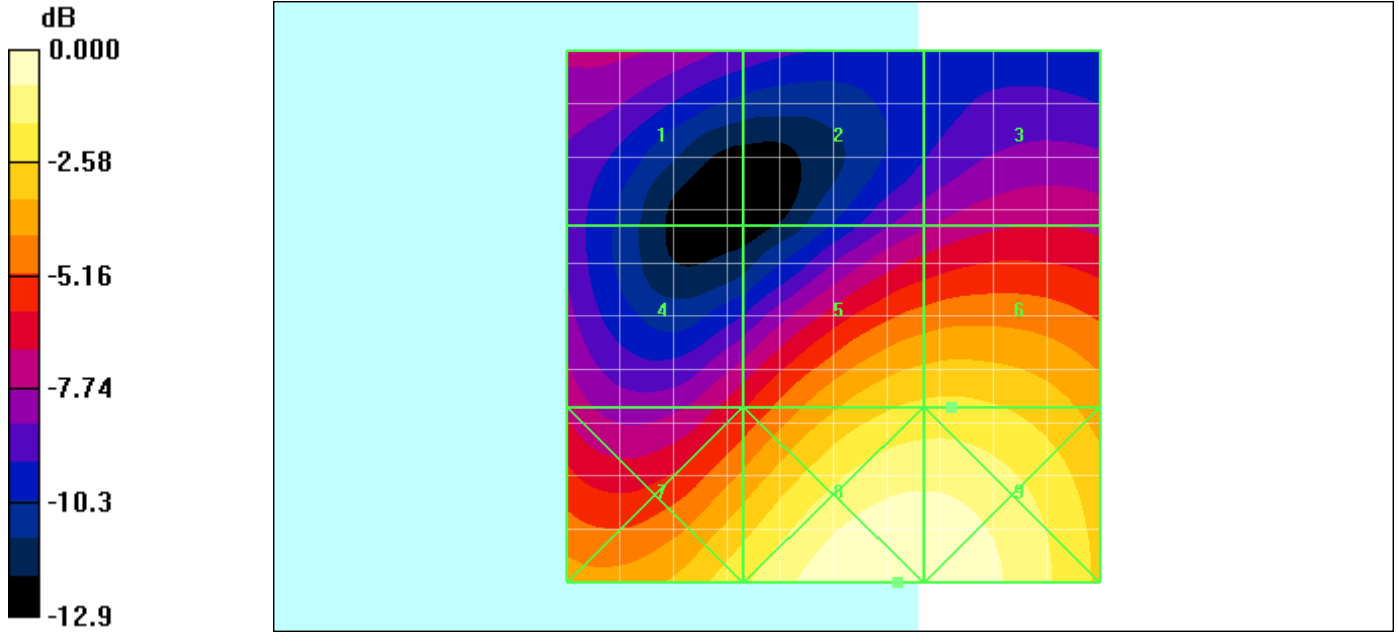
Grid 1 <b>14.5 M4</b>	Grid 2 <b>13.9 M4</b>	Grid 3 <b>15.6 M4</b>
Grid 4 <b>17.0 M4</b>	Grid 5 <b>26.0 M4</b>	Grid 6 <b>26.1 M4</b>
Grid 7 <b>27.6 M4</b>	Grid 8 <b>34.2 M4</b>	Grid 9 <b>34.0 M4</b>

Author Data  
**Daoud Attayi**


Dates of Test  
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Report No  
**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW**  
**L6ARDP70UW**



0 dB = 34.2V/m

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Date/Time: 1/19/2011 7:22:46 PM

Test Laboratory: RIM Testing Services

HAC\_E\_CDMA1900\_mid\_chan

**DUT: BlackBerry Smartphone**

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - ER3D - 2007: 15 mm from Probe Center to the**

**Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:**

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 20.3 V/m; Power Drift = 0.032 dB

Maximum value of Total (measured) = 32.4 V/m

**E Scan - ER3D - 2007: 15 mm from Probe Center to the**

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



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dx=5mm, dy=5mm

Maximum value of peak Total field = 25.0 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 20.3 V/m; Power Drift = 0.032 dB

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

Peak E-field in V/m

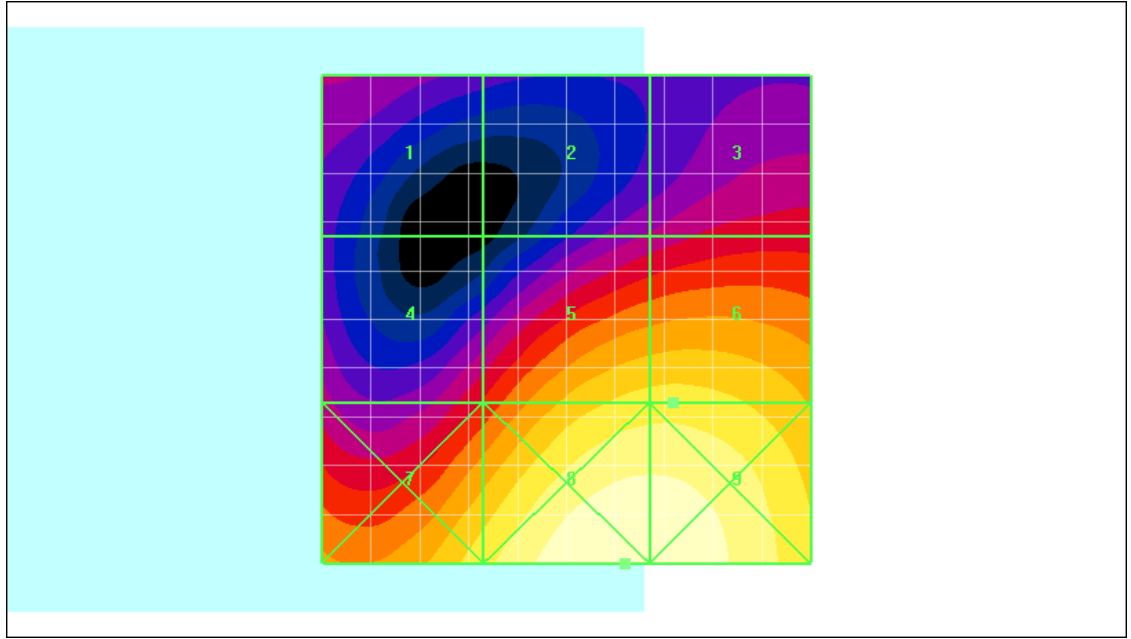
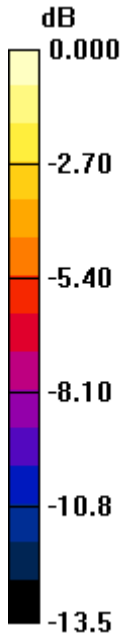
Grid 1 <b>13.0 M4</b>	Grid 2 <b>13.1 M4</b>	Grid 3 <b>15.1 M4</b>
Grid 4 <b>16.0 M4</b>	Grid 5 <b>24.8 M4</b>	Grid 6 <b>25.0 M4</b>
Grid 7 <b>25.5 M4</b>	Grid 8 <b>32.4 M4</b>	Grid 9 <b>32.1 M4</b>

Author Data  
**Daoud Attayi**


Dates of Test  
**Jan. 12-19, 2011  
 Feb. 28-Mar. 01, 2011**

Report No  
**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW  
 L6ARDP70UW**



0 dB = 32.4V/m

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Date/Time: 1/19/2011 7:27:06 PM

Test Laboratory: RIM Testing Services

HAC\_E\_CDMA1900\_high\_chan

**DUT: BlackBerry Smartphone**

Communication System: CDMA 1900; Frequency: 1908.5 MHz; Duty Cycle: 1:1

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - ER3D - 2007: 15 mm from Probe Center to the**

**Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:**

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 20.4 V/m; Power Drift = -0.143 dB

Maximum value of Total (measured) = 31.1 V/m

**E Scan - ER3D - 2007: 15 mm from Probe Center to the**

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 24.8 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 20.4 V/m; Power Drift = -0.143 dB

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

Peak E-field in V/m

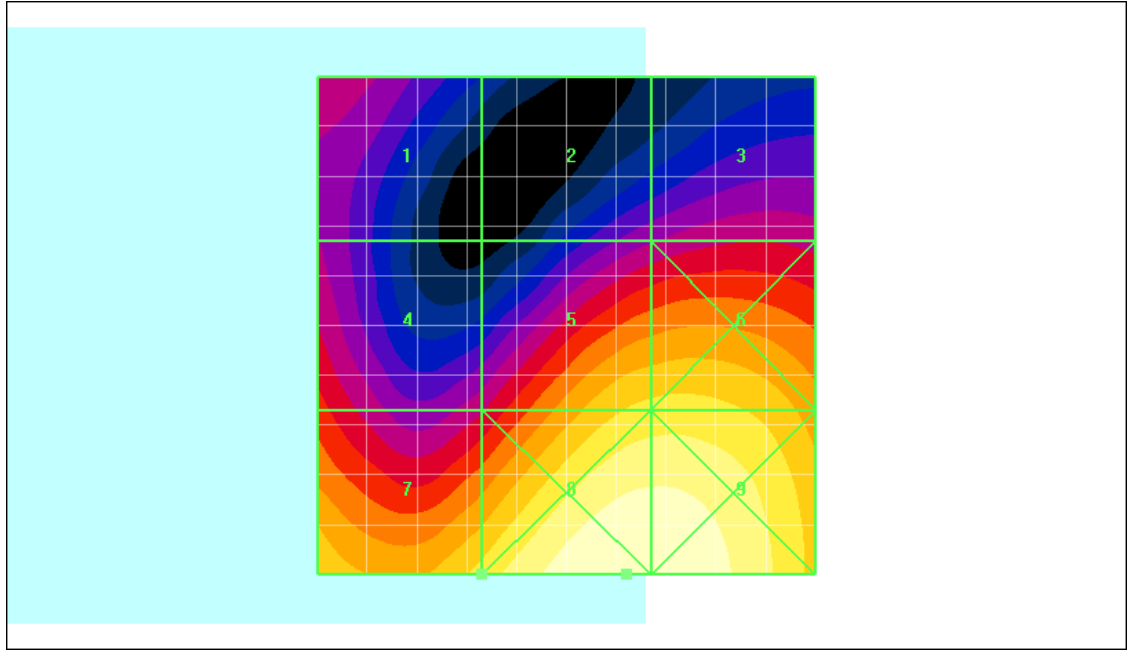
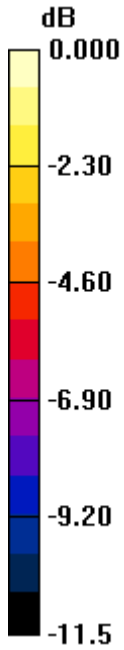
Grid 1 <b>14.8 M4</b>	Grid 2 <b>14.0 M4</b>	Grid 3 <b>15.4 M4</b>
Grid 4 <b>17.6 M4</b>	Grid 5 <b>24.6 M4</b>	Grid 6 <b>24.9 M4</b>
Grid 7 <b>24.8 M4</b>	Grid 8 <b>31.2 M4</b>	Grid 9 <b>31.0 M4</b>

Author Data  
**Daoud Attayi**


Dates of Test  
**Jan. 12-19, 2011  
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Report No  
**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW  
 L6ARDP70UW**



0 dB = 31.2V/m

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Date/Time: 1/19/2011 7:33:46 PM

Test Laboratory: RIM Testing Services

HAC\_E\_CDMA1900\_low\_chan\_Telecoil\_Center

**DUT: BlackBerry Smartphone**

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - ER3D - 2007: 15 mm from Probe Center to the**

**Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:**

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 18.9 V/m; Power Drift = -0.163 dB

Maximum value of Total (measured) = 30.4 V/m

**E Scan - ER3D - 2007: 15 mm from Probe Center to the**

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 21.2 V/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

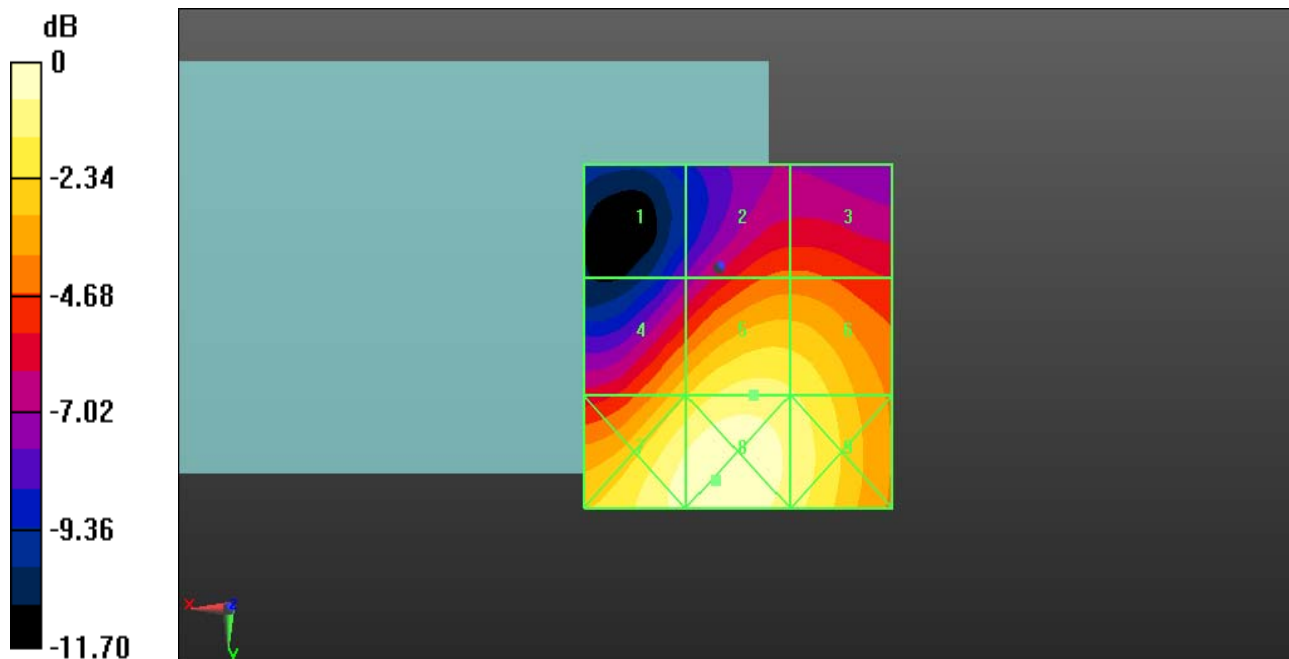
Reference Value = 18.9 V/m; Power Drift = -0.163 dB

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

Peak E-field in V/m


Grid 1 <b>15.1 M4</b>	Grid 2 <b>12.7 M4</b>	Grid 3 <b>12.8 M4</b>
Grid 4 <b>13.7 M4</b>	Grid 5 <b>21.1 M4</b>	Grid 6 <b>21.2 M4</b>
Grid 7 <b>24.0 M4</b>	Grid 8 <b>30.4 M4</b>	Grid 9 <b>30.1 M4</b>

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0 dB = 30.4V/m



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Date/Time: 1/19/2011 8:20:04 PM

Test Laboratory: RIM Testing Services

HAC\_H\_GSM850\_low\_chan

**DUT: BlackBerry Smartphone**

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:**

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.080 A/m; Power Drift = 0.097 dB

Maximum value of Total (measured) = 0.137 A/m

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 0.372 A/m

Probe Modulation Factor = 2.79

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.080 A/m; Power Drift = 0.097 dB

Hearing Aid Near-Field Category: **M4 (AWF -5 dB)**

Peak H-field in A/m

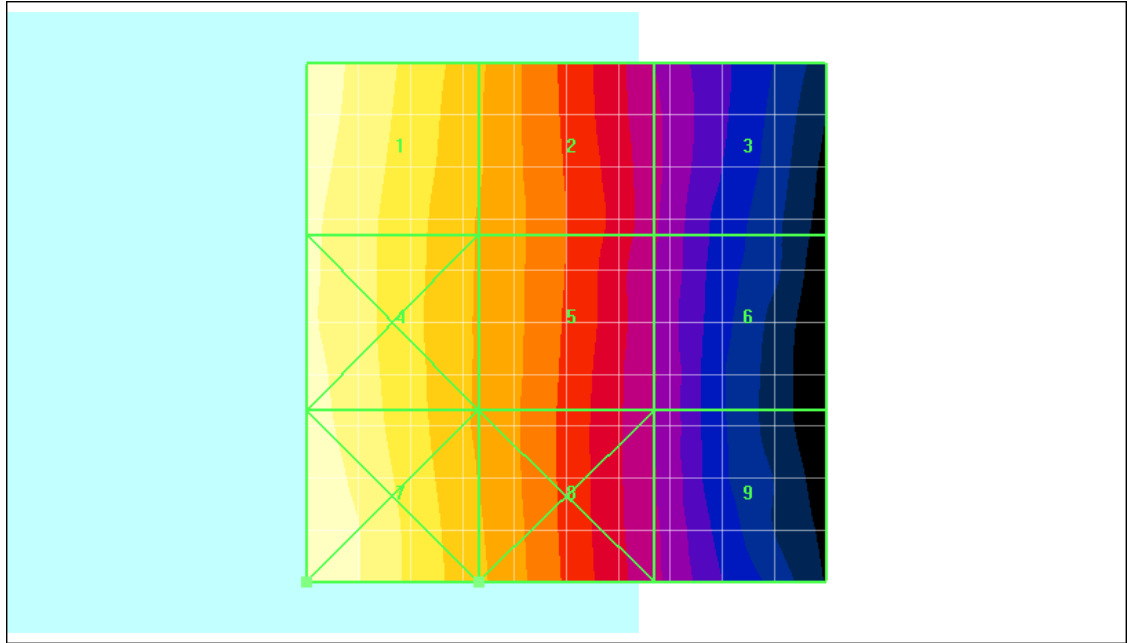
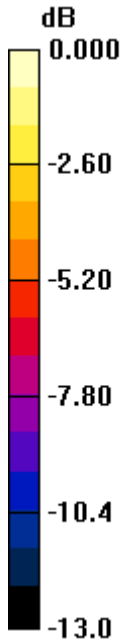
Grid 1 <b>0.372 M4</b>	Grid 2 <b>0.263 M4</b>	Grid 3 <b>0.161 M4</b>
Grid 4 <b>0.362 M4</b>	Grid 5 <b>0.256 M4</b>	Grid 6 <b>0.159 M4</b>
Grid 7 <b>0.383 M4</b>	Grid 8 <b>0.263 M4</b>	Grid 9 <b>0.160 M4</b>

Author Data  
**Daoud Attayi**


Dates of Test  
**Jan. 12-19, 2011**  
**Feb. 28-Mar. 01, 2011**

Report No  
**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW**  
**L6ARDP70UW**



0 dB = 0.383A/m

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Date/Time: 1/19/2011 8:25:45 PM

Test Laboratory: RIM Testing Services

HAC\_H\_GSM850\_mid\_chan

**DUT: BlackBerry Smartphone**

Communication System: GSM 850; Frequency: 836.8 MHz; Duty Cycle: 1:8.3

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the**

**Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:**

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.093 A/m; Power Drift = -0.224 dB

Maximum value of Total (measured) = 0.160 A/m

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the**

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 0.417 A/m

Probe Modulation Factor = 2.79

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.093 A/m; Power Drift = -0.224 dB

**Hearing Aid Near-Field Category: M4 (AWF -5 dB)**

Peak H-field in A/m

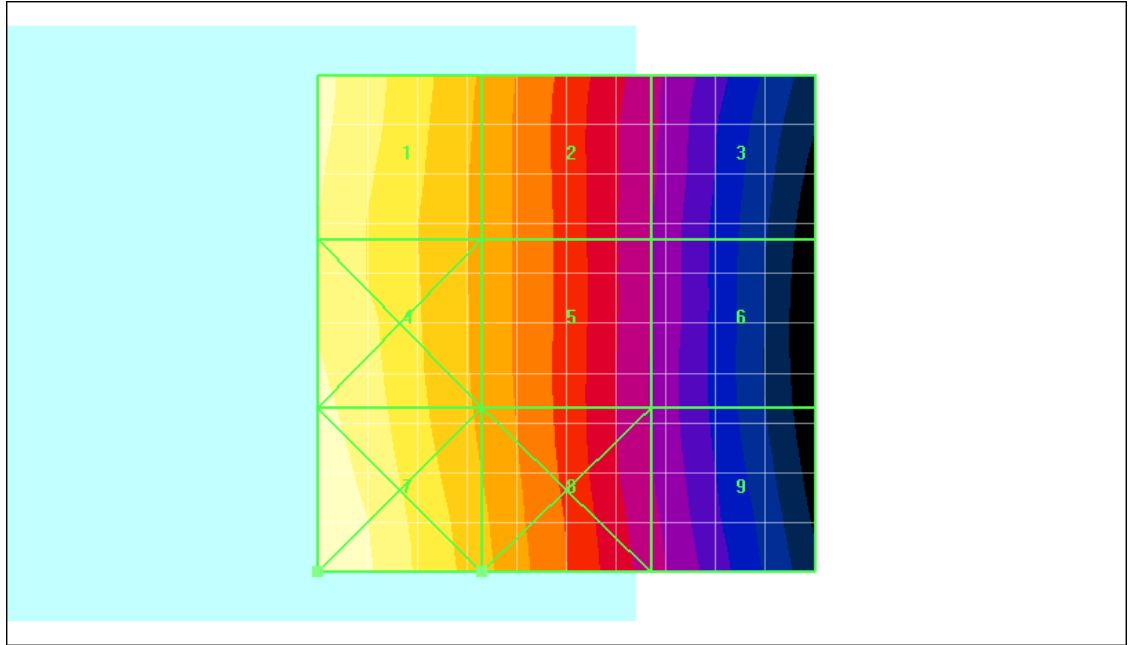
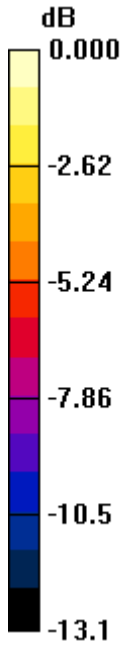
Grid 1 <b>0.417 M4</b>	Grid 2 <b>0.294 M4</b>	Grid 3 <b>0.187 M4</b>
Grid 4 <b>0.412 M4</b>	Grid 5 <b>0.292 M4</b>	Grid 6 <b>0.182 M4</b>
Grid 7 <b>0.445 M4</b>	Grid 8 <b>0.309 M4</b>	Grid 9 <b>0.190 M4</b>

Author Data  
**Daoud Attayi**


Dates of Test  
**Jan. 12-19, 2011**  
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**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW**  
**L6ARDP70UW**



0 dB = 0.445A/m

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Date/Time: 1/19/2011 8:31:02 PM

Test Laboratory: RIM Testing Services

HAC\_H\_GSM850\_high\_chan

**DUT: BlackBerry Smartphone**

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:**

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.115 A/m; Power Drift = 0.070 dB

Maximum value of Total (measured) = 0.191 A/m

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 0.533 A/m

Probe Modulation Factor = 2.79

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.115 A/m; Power Drift = 0.070 dB

**Hearing Aid Near-Field Category: M3 (AWF -5 dB)**

Peak H-field in A/m

Grid 1 <b>0.487 M3</b>	Grid 2 <b>0.360 M4</b>	Grid 3 <b>0.231 M4</b>
Grid 4 <b>0.498 M3</b>	Grid 5 <b>0.368 M4</b>	Grid 6 <b>0.245 M4</b>
Grid 7 <b>0.533 M3</b>	Grid 8 <b>0.390 M4</b>	Grid 9 <b>0.259 M4</b>

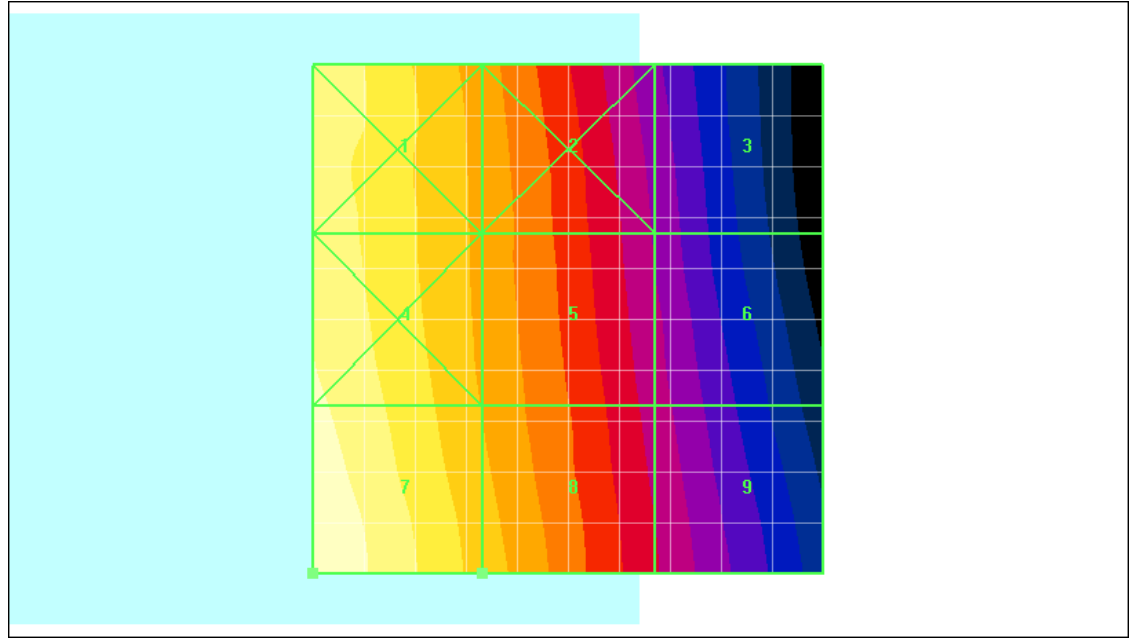
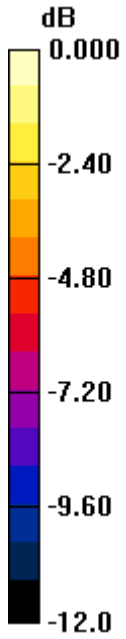


Author Data  
**Daoud Attayi**


Dates of Test  
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**Feb. 28-Mar. 01, 2011**

Report No  
**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW**  
**L6ARDP70UW**



0 dB = 0.533A/m

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Date/Time: 1/19/2011 8:35:34 PM

Test Laboratory: RIM Testing Services

HAC\_H\_GSM850\_high\_chan\_Telecoil\_Center

**DUT: BlackBerry Smartphone**

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the**

**Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:**

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.116 A/m; Power Drift = -0.077 dB

Maximum value of Total (measured) = 0.202 A/m

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the**

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 0.562 A/m

Probe Modulation Factor = 2.79

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.116 A/m; Power Drift = -0.077 dB

**Hearing Aid Near-Field Category: M3 (AWF -5 dB)**

Peak H-field in A/m

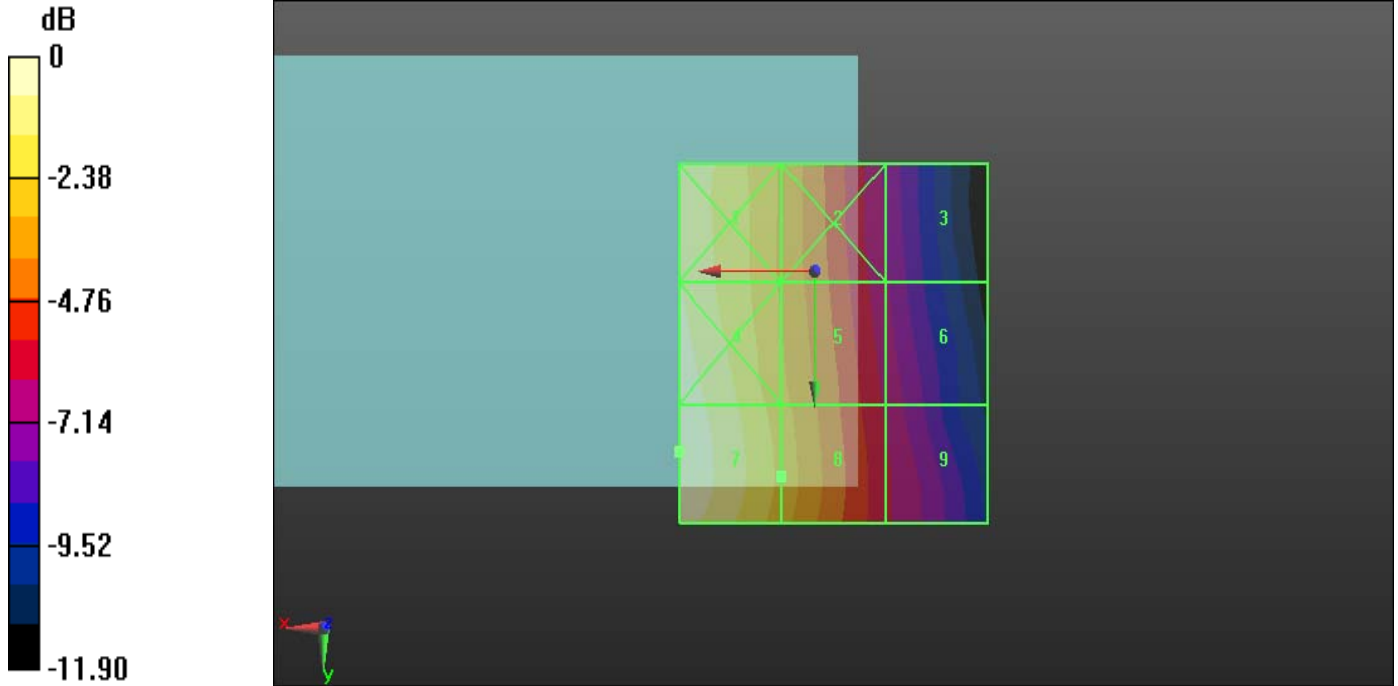
Grid 1 <b>0.509 M3</b>	Grid 2 <b>0.385 M4</b>	Grid 3 <b>0.258 M4</b>
Grid 4 <b>0.515 M3</b>	Grid 5 <b>0.395 M4</b>	Grid 6 <b>0.270 M4</b>
Grid 7 <b>0.562 M3</b>	Grid 8 <b>0.421 M4</b>	Grid 9 <b>0.282 M4</b>

Author Data  
**Daoud Attayi**


Dates of Test  
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**Feb. 28-Mar. 01, 2011**

Report No  
**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW**  
**L6ARDP70UW**



0 dB = 0.562A/m

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Date/Time: 1/19/2011 8:41:39 PM

Test Laboratory: RIM Testing Services

HAC\_H\_GSM1900\_low\_chan

**DUT: BlackBerry Smartphone**

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the**

**Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:**

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.065 A/m; Power Drift = 0.234 dB

Maximum value of Total (measured) = 0.080 A/m

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the**

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 0.152 A/m

Probe Modulation Factor = 2.52

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.065 A/m; Power Drift = 0.234 dB

**Hearing Aid Near-Field Category: M3 (AWF -5 dB)**

Peak H-field in A/m

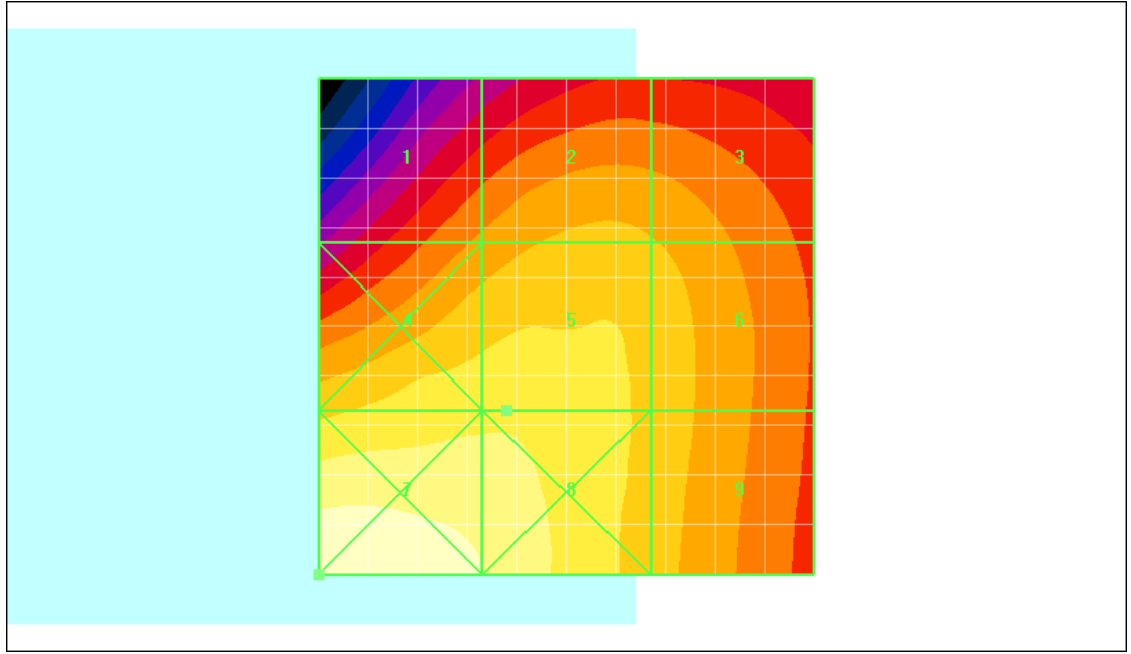
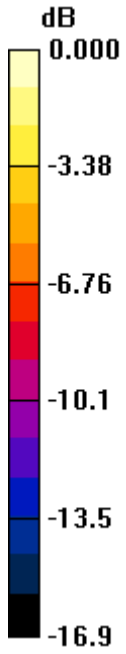
Grid 1 <b>0.109 M4</b>	Grid 2 <b>0.125 M4</b>	Grid 3 <b>0.122 M4</b>
Grid 4 <b>0.151 M3</b>	Grid 5 <b>0.152 M3</b>	Grid 6 <b>0.132 M4</b>
Grid 7 <b>0.202 M3</b>	Grid 8 <b>0.178 M3</b>	Grid 9 <b>0.132 M4</b>

Author Data  
**Daoud Attayi**


Dates of Test  
**Jan. 12-19, 2011  
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Report No  
**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW  
 L6ARDP70UW**



0 dB = 0.202A/m

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Date/Time: 1/19/2011 8:46:19 PM

Test Laboratory: RIM Testing Services

HAC\_H\_GSM1900\_mid\_chan

**DUT: BlackBerry Smartphone**

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the**

**Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:**

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 0.066 A/m; Power Drift = 0.052 dB

Maximum value of Total (measured) = 0.082 A/m

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the**

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



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dx=5mm, dy=5mm

Maximum value of peak Total field = 0.155 A/m

Probe Modulation Factor = 2.52

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.066 A/m; Power Drift = 0.052 dB

**Hearing Aid Near-Field Category: M3 (AWF -5 dB)**

Peak H-field in A/m

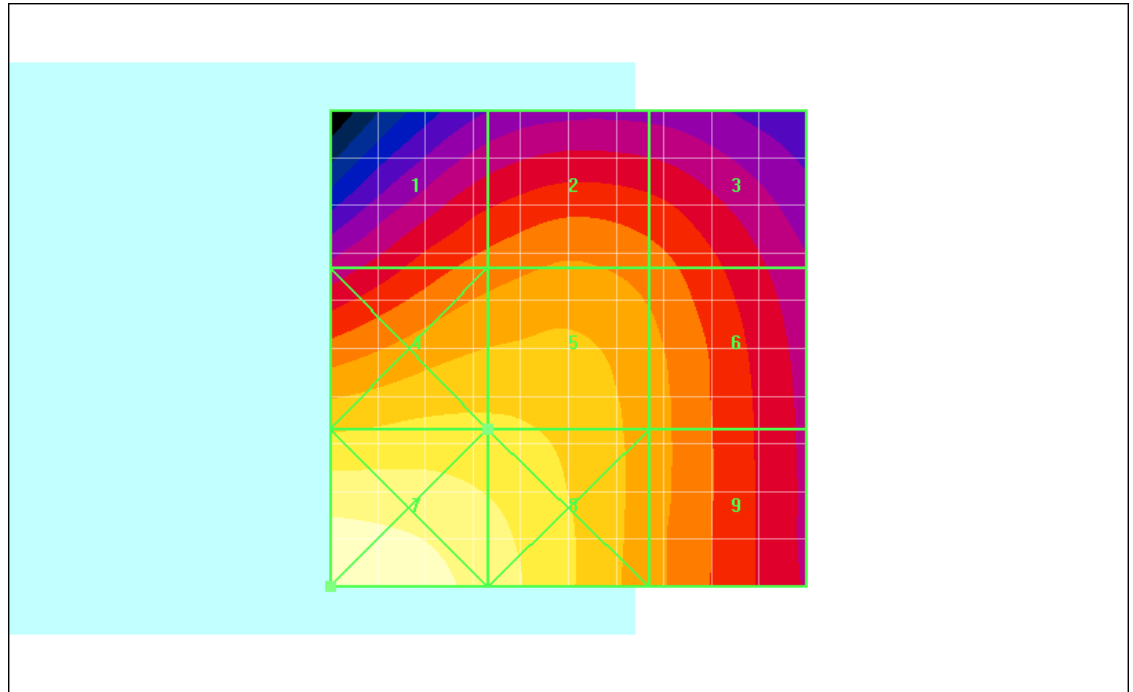
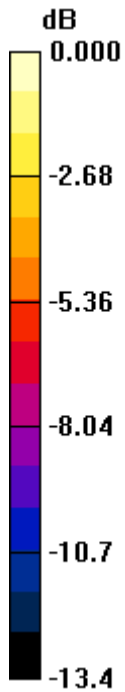
Grid 1 <b>0.117 M4</b>	Grid 2 <b>0.125 M4</b>	Grid 3 <b>0.117 M4</b>
Grid 4 <b>0.156 M3</b>	Grid 5 <b>0.155 M3</b>	Grid 6 <b>0.130 M4</b>
Grid 7 <b>0.206 M3</b>	Grid 8 <b>0.178 M3</b>	Grid 9 <b>0.130 M4</b>

Author Data  
**Daoud Attayi**


Dates of Test  
**Jan. 12-19, 2011**  
**Feb. 28-Mar. 01, 2011**

Report No  
**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW**  
**L6ARDP70UW**



0 dB = 0.206A/m

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Date/Time: 1/19/2011 8:50:41 PM

Test Laboratory: RIM Testing Services

HAC\_H\_GSM1900\_high\_chan

**DUT: BlackBerry Smartphone**

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the**

**Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:**

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.061 A/m; Power Drift = -0.032 dB

Maximum value of Total (measured) = 0.091 A/m

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the**

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 0.159 A/m

Probe Modulation Factor = 2.52

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.061 A/m; Power Drift = -0.032 dB

**Hearing Aid Near-Field Category: M3 (AWF -5 dB)**

Peak H-field in A/m

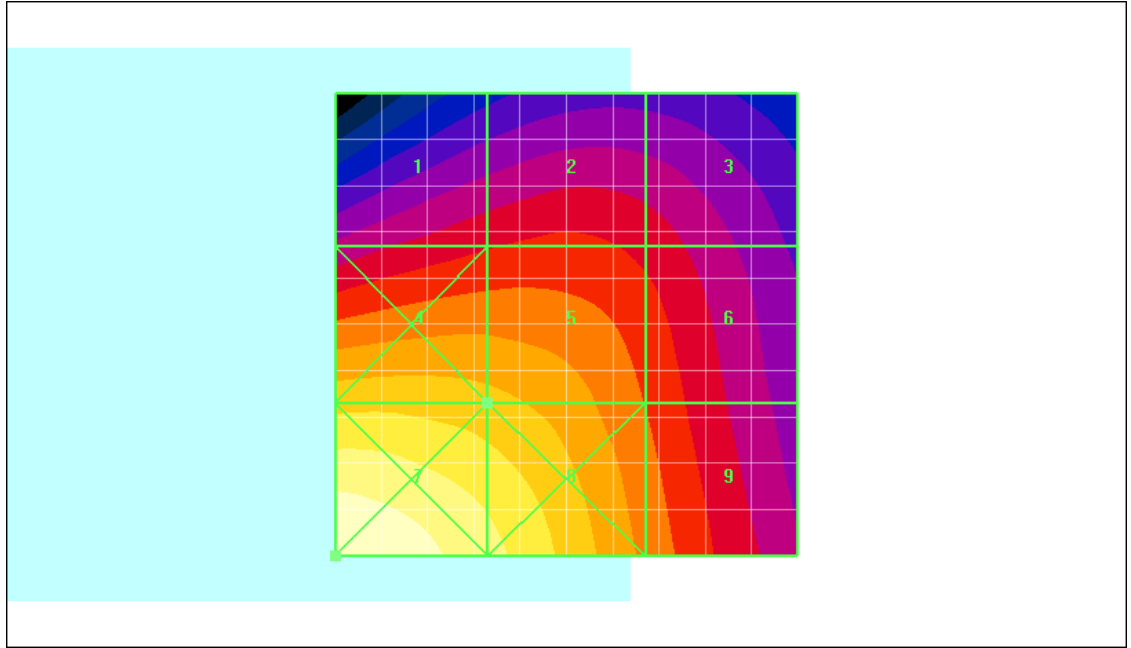
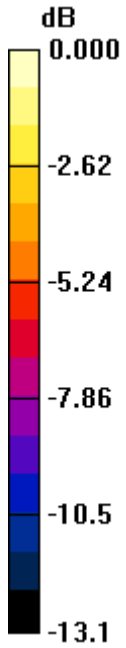
Grid 1	Grid 2	Grid 3
<b>0.113 M4</b>	<b>0.117 M4</b>	<b>0.110 M4</b>
Grid 4	Grid 5	Grid 6
<b>0.165 M3</b>	<b>0.159 M3</b>	<b>0.125 M4</b>
Grid 7	Grid 8	Grid 9
<b>0.229 M3</b>	<b>0.194 M3</b>	<b>0.136 M4</b>

Author Data  
**Daoud Attayi**


Dates of Test  
**Jan. 12-19, 2011**  
**Feb. 28-Mar. 01, 2011**

Report No  
**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW**  
**L6ARDP70UW**



0 dB = 0.229A/m

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Date/Time: 1/19/2011 8:56:42 PM

Test Laboratory: RIM Testing Services

HAC\_H\_GSM1900\_high\_chan\_Telecoil\_Center

**DUT: BlackBerry Smartphone**

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the**

**Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:**

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.061 A/m; Power Drift = -0.076 dB

Maximum value of Total (measured) = 0.087 A/m

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the**

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 0.153 A/m

Probe Modulation Factor = 2.52

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.061 A/m; Power Drift = -0.076 dB

**Hearing Aid Near-Field Category: M3 (AWF -5 dB)**

Peak H-field in A/m

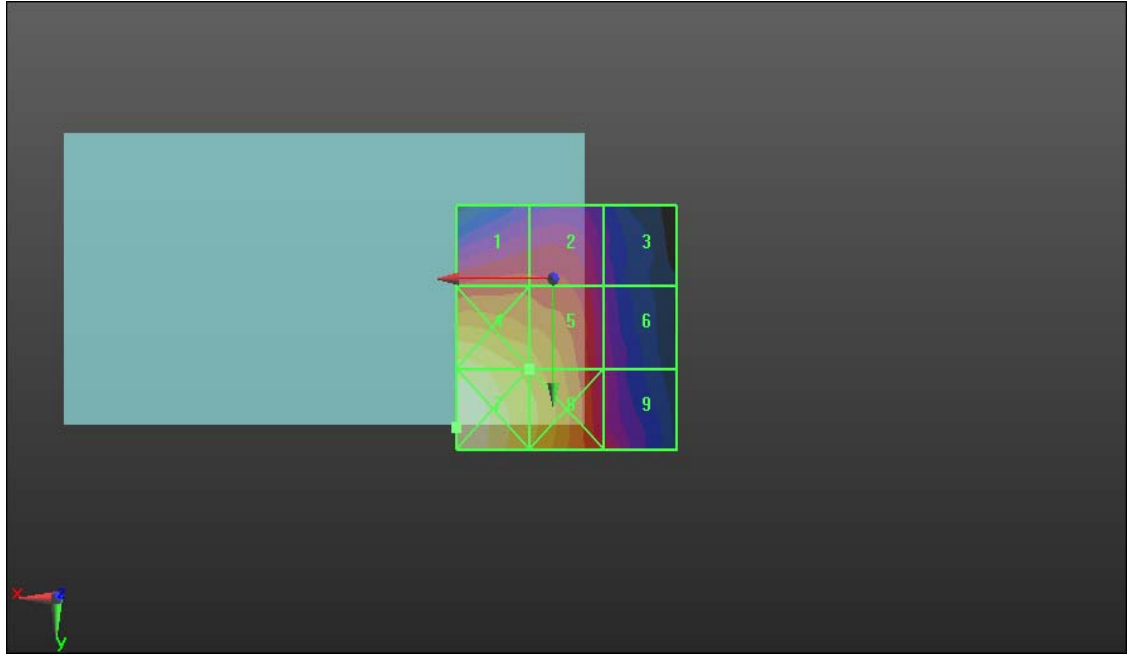
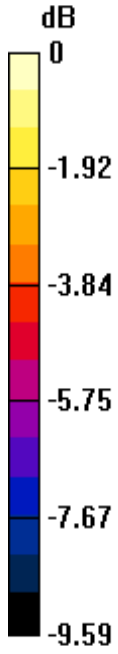
Grid 1 <b>0.103 M4</b>	Grid 2 <b>0.111 M4</b>	Grid 3 <b>0.111 M4</b>
Grid 4 <b>0.153 M3</b>	Grid 5 <b>0.153 M3</b>	Grid 6 <b>0.133 M4</b>
Grid 7 <b>0.220 M3</b>	Grid 8 <b>0.199 M3</b>	Grid 9 <b>0.146 M3</b>

Author Data  
**Daoud Attayi**

Dates of Test  
**Jan. 12-19, 2011**  
**Feb. 28-Mar. 01, 2011**


Report No  
**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW**  
**L6ARDP70UW**



0 dB = 0.220A/m



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Date/Time: 1/19/2011 9:04:35 PM

Test Laboratory: RIM Testing Services

HAC\_H\_CDMA800\_low\_chan

**DUT: BlackBerry Smartphone**

Communication System: CDMA 800; Frequency: 824.7 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the**

**Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:**

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.035 A/m; Power Drift = -0.804 dB

Maximum value of Total (measured) = 0.059 A/m

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the**

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 0.057 A/m

Probe Modulation Factor = 1.01

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.035 A/m; Power Drift = -0.804 dB

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

Peak H-field in A/m

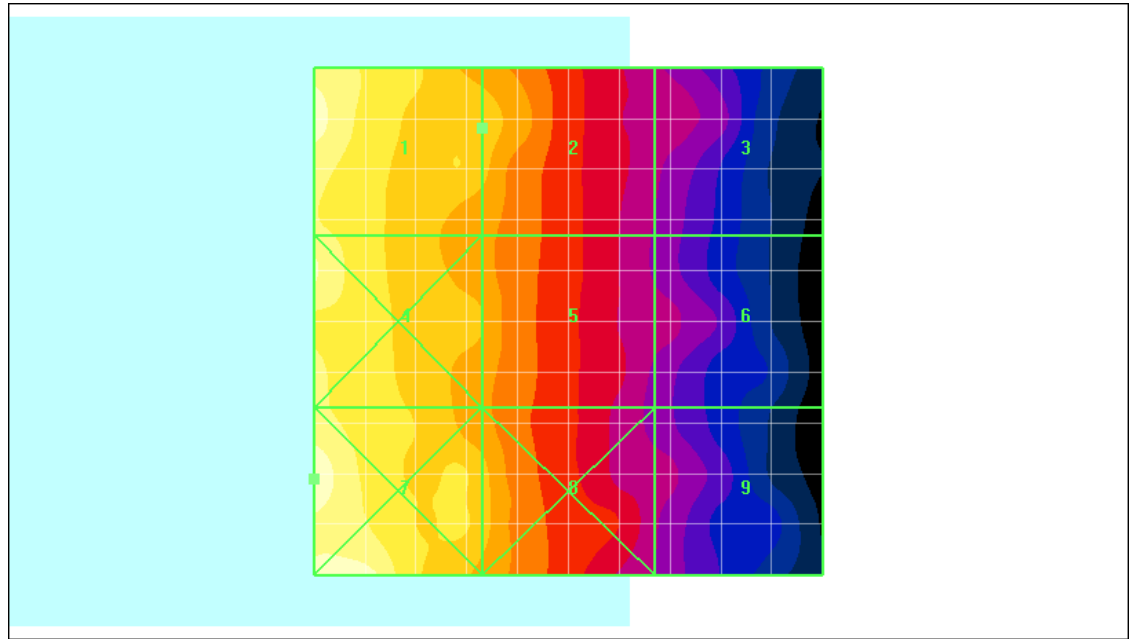
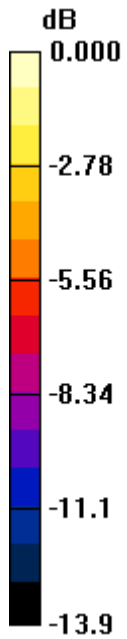
Grid 1 <b>0.057 M4</b>	Grid 2 <b>0.041 M4</b>	Grid 3 <b>0.025 M4</b>
Grid 4 <b>0.055 M4</b>	Grid 5 <b>0.040 M4</b>	Grid 6 <b>0.025 M4</b>
Grid 7 <b>0.060 M4</b>	Grid 8 <b>0.041 M4</b>	Grid 9 <b>0.025 M4</b>

Author Data  
**Daoud Attayi**


Dates of Test  
**Jan. 12-19, 2011**  
**Feb. 28-Mar. 01, 2011**

Report No  
**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW**  
**L6ARDP70UW**



0 dB = 0.060A/m

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Date/Time: 1/19/2011 9:08:52 PM

Test Laboratory: RIM Testing Services

HAC\_H\_CDMA800\_mid\_chan

**DUT: BlackBerry Smartphone**

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the**

**Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:**

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.035 A/m; Power Drift = -0.904 dB

Maximum value of Total (measured) = 0.053 A/m

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the**

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 0.051 A/m

Probe Modulation Factor = 1.01

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.035 A/m; Power Drift = -0.904 dB

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

Peak H-field in A/m

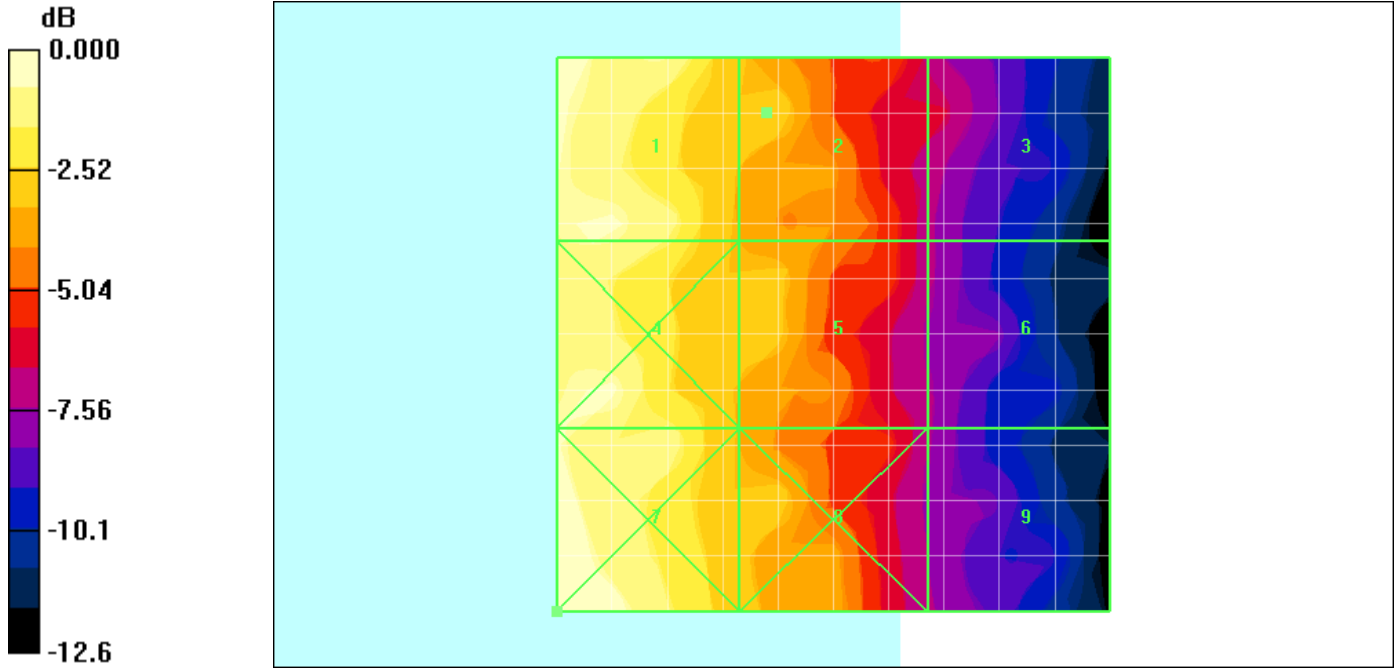
Grid 1 <b>0.051 M4</b>	Grid 2 <b>0.039 M4</b>	Grid 3 <b>0.026 M4</b>
Grid 4 <b>0.050 M4</b>	Grid 5 <b>0.038 M4</b>	Grid 6 <b>0.023 M4</b>
Grid 7 <b>0.053 M4</b>	Grid 8 <b>0.039 M4</b>	Grid 9 <b>0.023 M4</b>

Author Data  
**Daoud Attayi**


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**Jan. 12-19, 2011  
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FCC ID  
**L6ARDH70CW  
 L6ARDP70UW**



0 dB = 0.053A/m

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Date/Time: 1/19/2011 9:14:16 PM

Test Laboratory: RIM Testing Services

HAC\_H\_CDMA800\_high\_chan

**DUT: BlackBerry Smartphone**

Communication System: CDMA 800; Frequency: 848.52 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the**

**Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:**

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.034 A/m; Power Drift = 1.04 dB

Maximum value of Total (measured) = 0.062 A/m

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the**

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 0.053 A/m

Probe Modulation Factor = 1.01

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.034 A/m; Power Drift = 1.04 dB

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

Peak H-field in A/m

Grid 1 <b>0.053 M4</b>	Grid 2 <b>0.042 M4</b>	Grid 3 <b>0.028 M4</b>
Grid 4 <b>0.056 M4</b>	Grid 5 <b>0.042 M4</b>	Grid 6 <b>0.029 M4</b>
Grid 7 <b>0.063 M4</b>	Grid 8 <b>0.046 M4</b>	Grid 9 <b>0.028 M4</b>

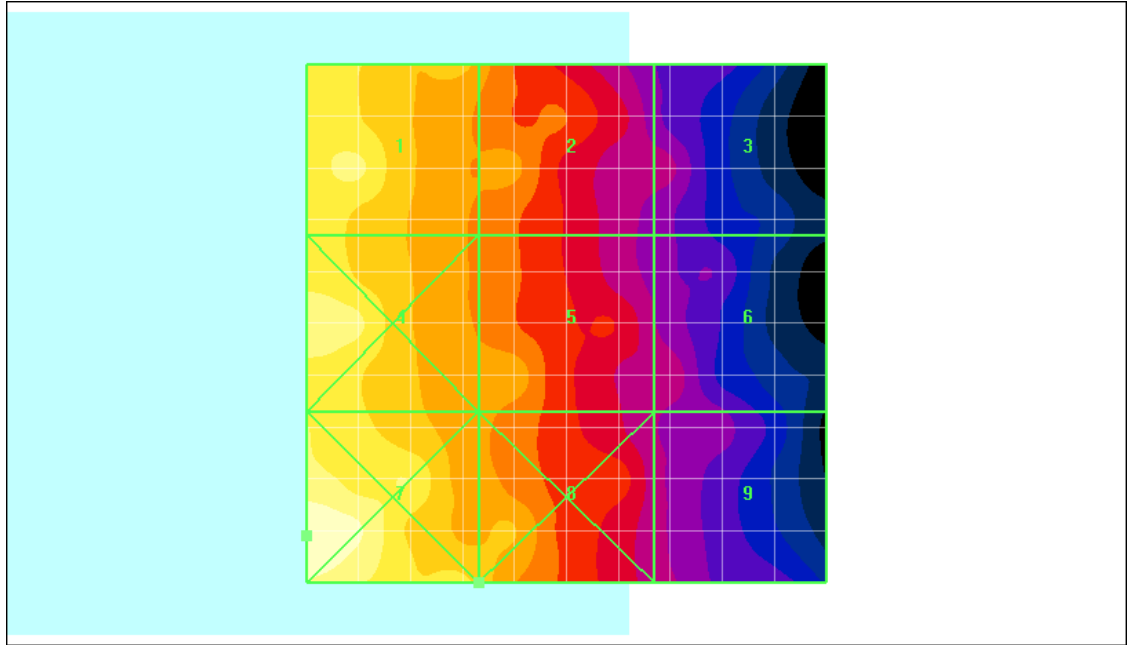
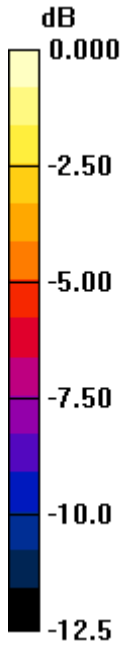


Author Data  
**Daoud Attayi**


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**Jan. 12-19, 2011**  
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**L6ARDH70CW**  
**L6ARDP70UW**



0 dB = 0.063A/m

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Date/Time: 1/19/2011 9:20:14 PM

Test Laboratory: RIM Testing Services

HAC\_H\_CDMA800\_low\_chan\_Telecoil\_Center

**DUT: BlackBerry Smartphone**

Communication System: CDMA 800; Frequency: 824.7 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the**

**Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:**

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.035 A/m; Power Drift = -0.835 dB

Maximum value of Total (measured) = 0.057 A/m

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the**

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 0.053 A/m

Probe Modulation Factor = 1.01

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.035 A/m; Power Drift = -0.835 dB

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

Peak H-field in A/m

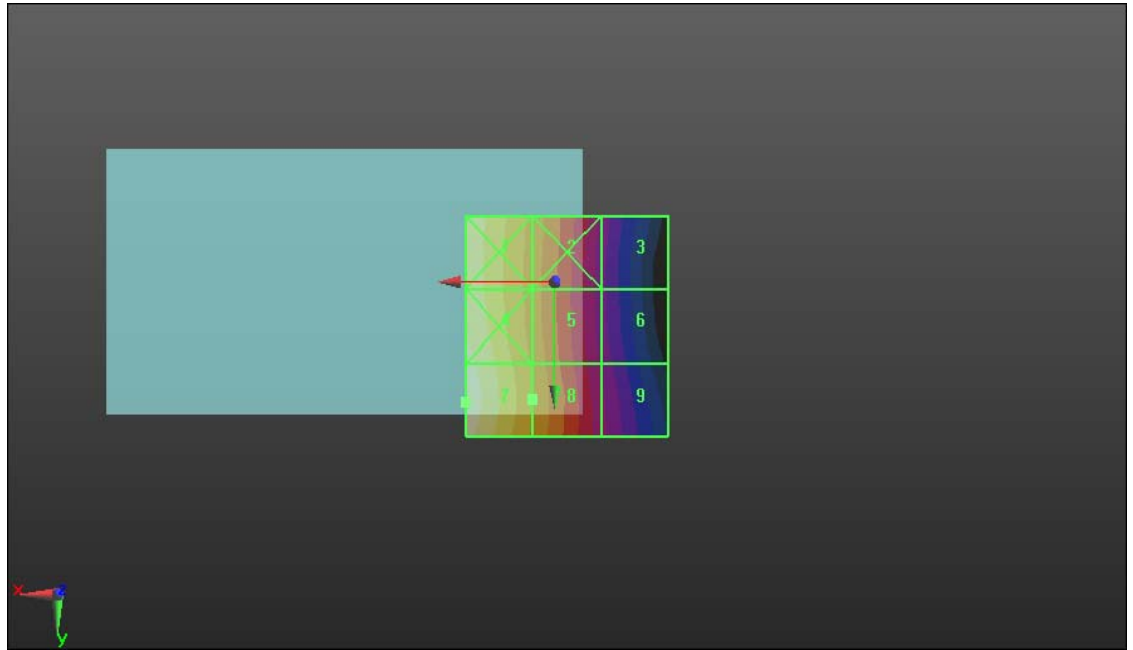
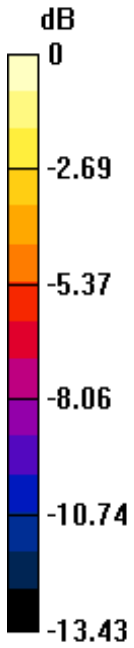
Grid 1 <b>0.053 M4</b>	Grid 2 <b>0.039 M4</b>	Grid 3 <b>0.027 M4</b>
Grid 4 <b>0.056 M4</b>	Grid 5 <b>0.039 M4</b>	Grid 6 <b>0.027 M4</b>
Grid 7 <b>0.058 M4</b>	Grid 8 <b>0.040 M4</b>	Grid 9 <b>0.026 M4</b>

Author Data  
**Daoud Attayi**


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FCC ID  
**L6ARDH70CW**  
**L6ARDP70UW**



0 dB = 0.058A/m

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Date/Time: 1/19/2011 9:26:27 PM

Test Laboratory: RIM Testing Services

HAC\_H\_CDMA1900\_low\_chan

**DUT: BlackBerry Smartphone**

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the**

**Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:**

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.032 A/m; Power Drift = 0.232 dB

Maximum value of Total (measured) = 0.038 A/m

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the**

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 0.031 A/m

Probe Modulation Factor = 1.08

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.032 A/m; Power Drift = 0.232 dB

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

Peak H-field in A/m

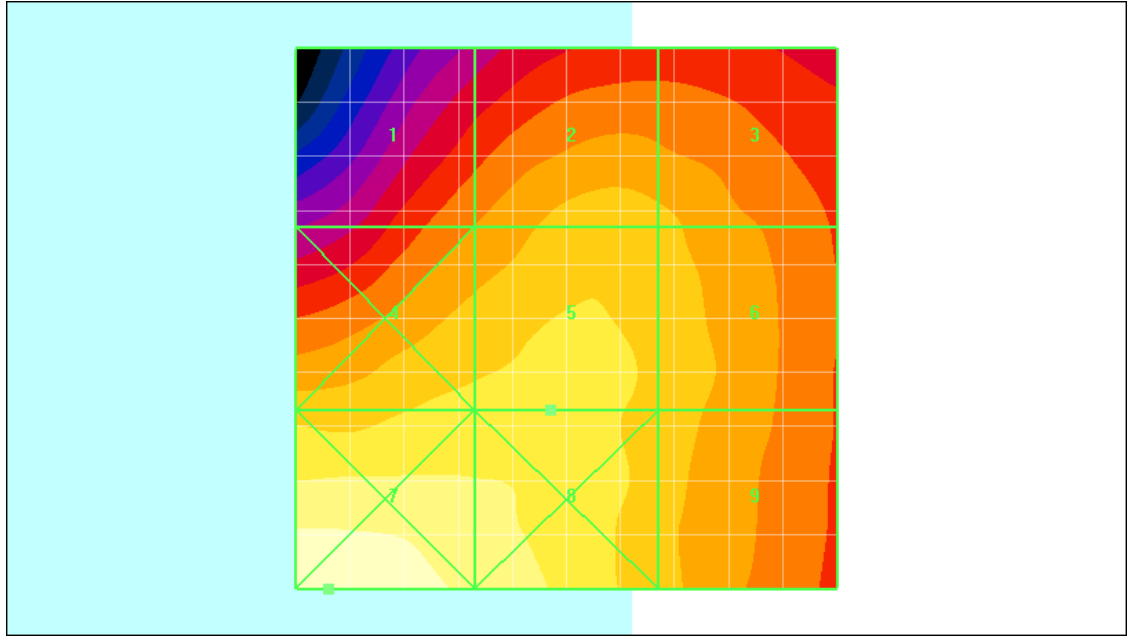
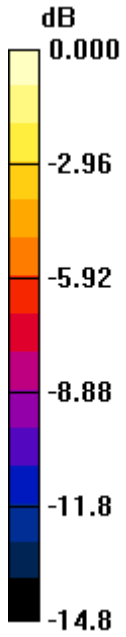
Grid 1 <b>0.023 M4</b>	Grid 2 <b>0.028 M4</b>	Grid 3 <b>0.027 M4</b>
Grid 4 <b>0.030 M4</b>	Grid 5 <b>0.031 M4</b>	Grid 6 <b>0.028 M4</b>
Grid 7 <b>0.041 M4</b>	Grid 8 <b>0.036 M4</b>	Grid 9 <b>0.028 M4</b>

Author Data  
**Daoud Attayi**


Dates of Test  
**Jan. 12-19, 2011  
 Feb. 28-Mar. 01, 2011**

Report No  
**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW  
 L6ARDP70UW**



0 dB = 0.041A/m

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Date/Time: 1/19/2011 9:32:46 PM

Test Laboratory: RIM Testing Services

HAC\_H\_CDMA1900\_mid\_chan

**DUT: BlackBerry Smartphone**

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the**

**Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:**

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 0.032 A/m; Power Drift = -0.069 dB

Maximum value of Total (measured) = 0.040 A/m

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the**

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



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dx=5mm, dy=5mm

Maximum value of peak Total field = 0.032 A/m

Probe Modulation Factor = 1.08

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.032 A/m; Power Drift = -0.069 dB

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

Peak H-field in A/m

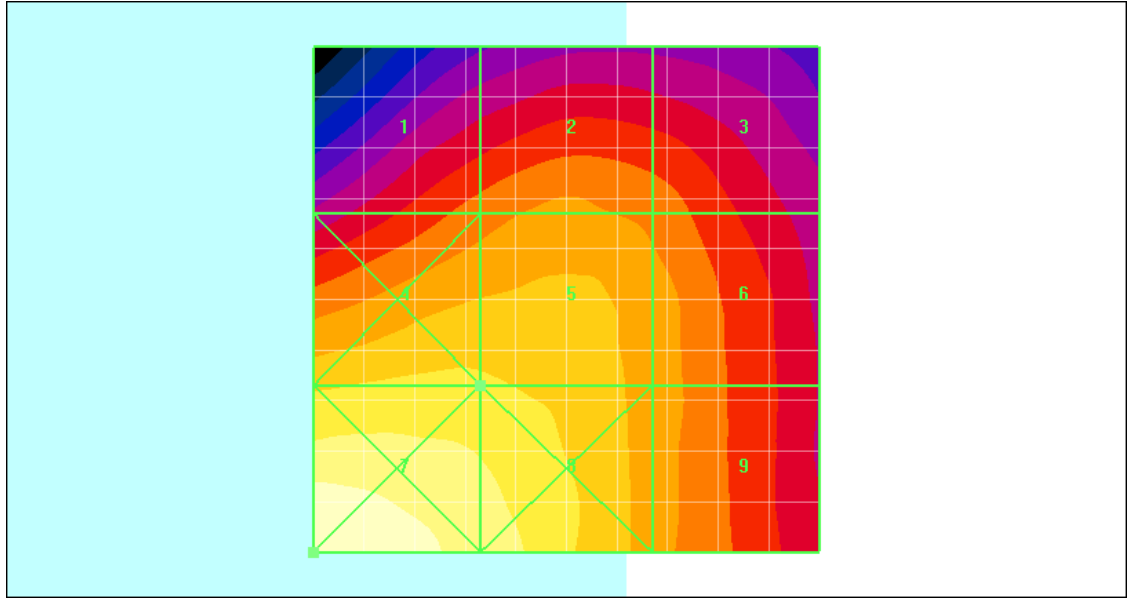
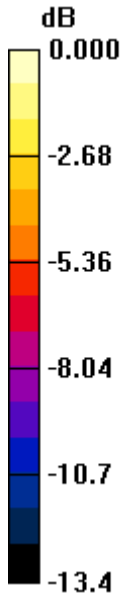
Grid 1 <b>0.024 M4</b>	Grid 2 <b>0.027 M4</b>	Grid 3 <b>0.025 M4</b>
Grid 4 <b>0.033 M4</b>	Grid 5 <b>0.032 M4</b>	Grid 6 <b>0.027 M4</b>
Grid 7 <b>0.043 M4</b>	Grid 8 <b>0.037 M4</b>	Grid 9 <b>0.027 M4</b>

Author Data  
**Daoud Attayi**


Dates of Test  
**Jan. 12-19, 2011  
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FCC ID  
**L6ARDH70CW  
 L6ARDP70UW**



0 dB = 0.043A/m

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Date/Time: 1/19/2011 9:37:14 PM

Test Laboratory: RIM Testing Services

HAC\_H\_CDMA1900\_high\_chan

**DUT: BlackBerry Smartphone**

Communication System: CDMA 1900; Frequency: 1908.5 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the**

**Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:**

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.030 A/m; Power Drift = -0.006 dB

Maximum value of Total (measured) = 0.044 A/m

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the**

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

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Author Data <b>Daoud Attayi</b>	Dates of Test <b>Jan. 12-19, 2011</b> <b>Feb. 28-Mar. 01, 2011</b>	Report No <b>RTS-2605-1102-02A</b>	FCC ID <b>L6ARDH70CW</b> <b>L6ARDP70UW</b>

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.034 A/m

Probe Modulation Factor = 1.08

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.030 A/m; Power Drift = -0.006 dB

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

Peak H-field in A/m

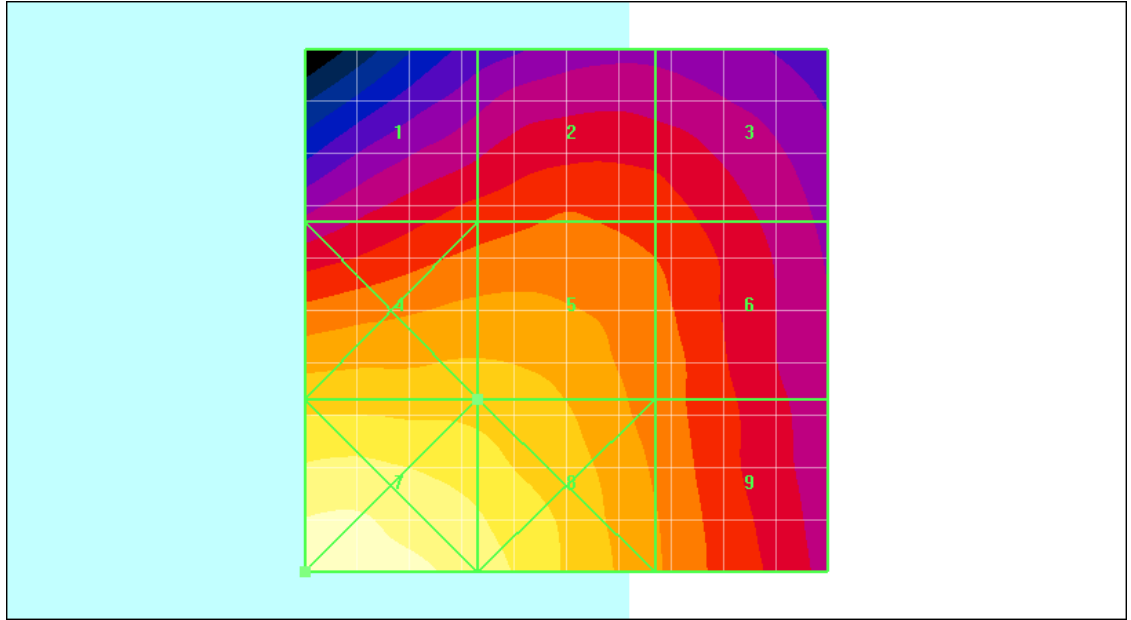
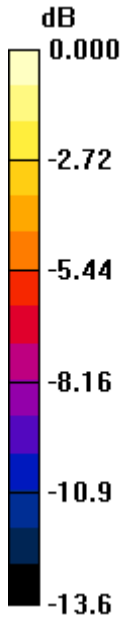
Grid 1 <b>0.024 M4</b>	Grid 2 <b>0.026 M4</b>	Grid 3 <b>0.025 M4</b>
Grid 4 <b>0.034 M4</b>	Grid 5 <b>0.034 M4</b>	Grid 6 <b>0.027 M4</b>
Grid 7 <b>0.048 M4</b>	Grid 8 <b>0.041 M4</b>	Grid 9 <b>0.029 M4</b>

Author Data  
**Daoud Attayi**


Dates of Test  
**Jan. 12-19, 2011**  
**Feb. 28-Mar. 01, 2011**

Report No  
**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW**  
**L6ARDP70UW**



0 dB = 0.048A/m

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Date/Time: 1/19/2011 9:42:28 PM

Test Laboratory: RIM Testing Services

HAC\_H\_CDMA1900\_high\_chan\_Telecoil\_Center

**DUT: BlackBerry Smartphone**

Communication System: CDMA 1900; Frequency: 1908.5 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the**

**Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:**

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.031 A/m; Power Drift = -0.179 dB

Maximum value of Total (measured) = 0.042 A/m

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the**

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 0.032 A/m

Probe Modulation Factor = 1.08


Device Reference Point: 0.000, 0.000, -6.30 mm

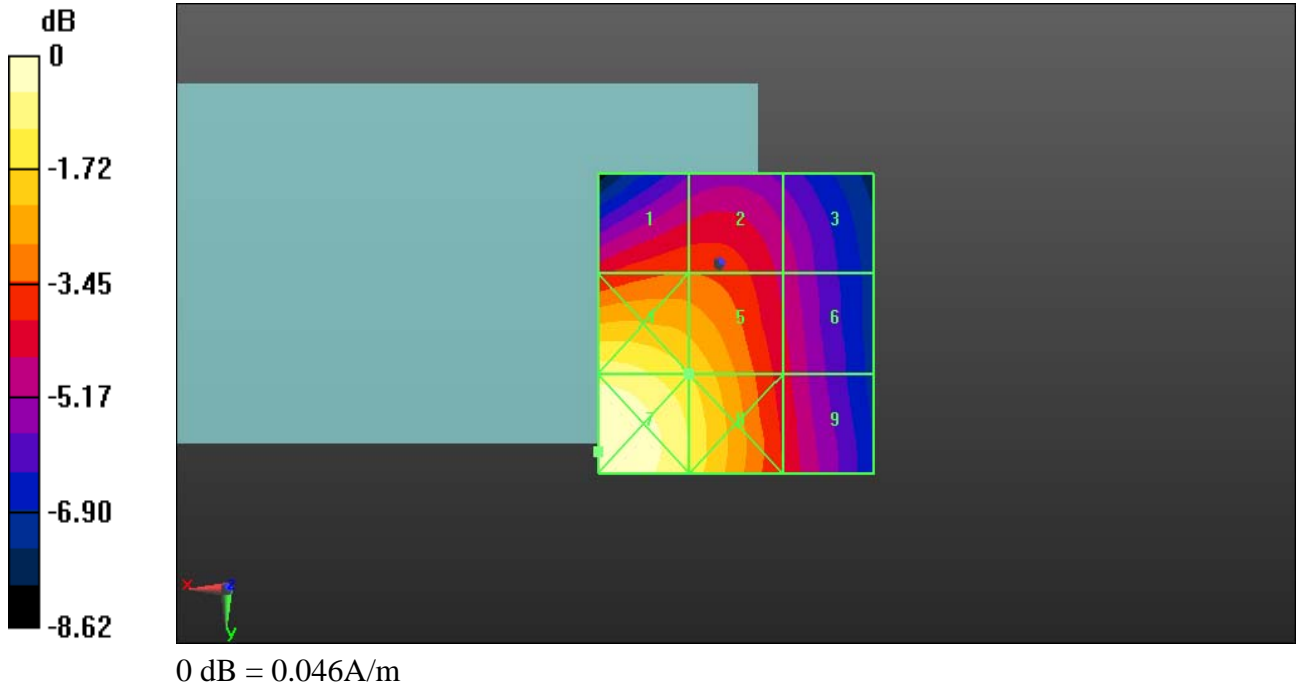
Reference Value = 0.031 A/m; Power Drift = -0.179 dB

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


Peak H-field in A/m

Grid 1 <b>0.023 M4</b>	Grid 2 <b>0.024 M4</b>	Grid 3 <b>0.023 M4</b>
Grid 4 <b>0.032 M4</b>	Grid 5 <b>0.032 M4</b>	Grid 6 <b>0.026 M4</b>
Grid 7 <b>0.046 M4</b>	Grid 8 <b>0.039 M4</b>	Grid 9 <b>0.027 M4</b>

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Date/Time: 3/1/2011 10:35:01 AM, Date/Time: 3/1/2011 10:40:03 AM,

Date/Time: 3/1/2011 10:44:13 AM

Test Laboratory: RIM Testing Services

HAC RF\_E-Field\_UMTS\_band\_V

**DUT: BlackBerry Smartphone; Type: Sample**

Communication System: WCDMA FDD V; Communication System Band:

Exported from older format (data unavailable - please correct).; Frequency: 826.4

MHz, Frequency: 836.4 MHz, Frequency: 846.6 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: DASYS5 (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)

**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 = 52.583 V/m

Probe Modulation Factor = 1.010

Device Reference Point: 0, 0, -6.3 mm

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Reference Value = 64.714 V/m; Power Drift = 0.01 dB

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

Peak E-field in V/m

Grid 1 <b>47.660 M4</b>	Grid 2 <b>52.032 M4</b>	Grid 3 <b>51.028 M4</b>
Grid 4 <b>48.222 M4</b>	Grid 5 <b>52.583 M4</b>	Grid 6 <b>51.734 M4</b>
Grid 7 <b>46.728 M4</b>	Grid 8 <b>51.373 M4</b>	Grid 9 <b>50.523 M4</b>

**Cursor:**

Total = 52.583 V/m  
E Category: M4  
Location: -4.5, -4, 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 = 52.821 V/m

Probe Modulation Factor = 1.010

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 64.504 V/m; Power Drift = 0.01 dB

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

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Peak E-field in V/m

Grid 1 <b>45.986 M4</b>	Grid 2 <b>52.317 M4</b>	Grid 3 <b>52.042 M4</b>
Grid 4 <b>46.920 M4</b>	Grid 5 <b>52.821 M4</b>	Grid 6 <b>52.685 M4</b>
Grid 7 <b>45.676 M4</b>	Grid 8 <b>51.678 M4</b>	Grid 9 <b>51.592 M4</b>

Total = 52.821 V/m  
E Category: M4  
Location: -5.5, -3.5, 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 = 61.736 V/m  
Probe Modulation Factor = 1.010  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 74.881 V/m; Power Drift = 0.08 dB

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<b>Daoud Attayi</b>	<b>Jan. 12-19, 2011</b> <b>Feb. 28-Mar. 01, 2011</b>	<b>RTS-2605-1102-02A</b>	<b>L6ARDH70CW</b> <b>L6ARDP70UW</b>

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

Peak E-field in V/m

Grid 1 <b>55.713</b> M4	Grid 2 <b>60.679</b> M4	Grid 3 <b>60.049</b> M4
Grid 4 <b>54.712</b> M4	Grid 5 <b>61.736</b> M4	Grid 6 <b>61.043</b> M4
Grid 7 <b>52.185</b> M4	Grid 8 <b>58.806</b> M4	Grid 9 <b>58.412</b> M4

**Cursor:**

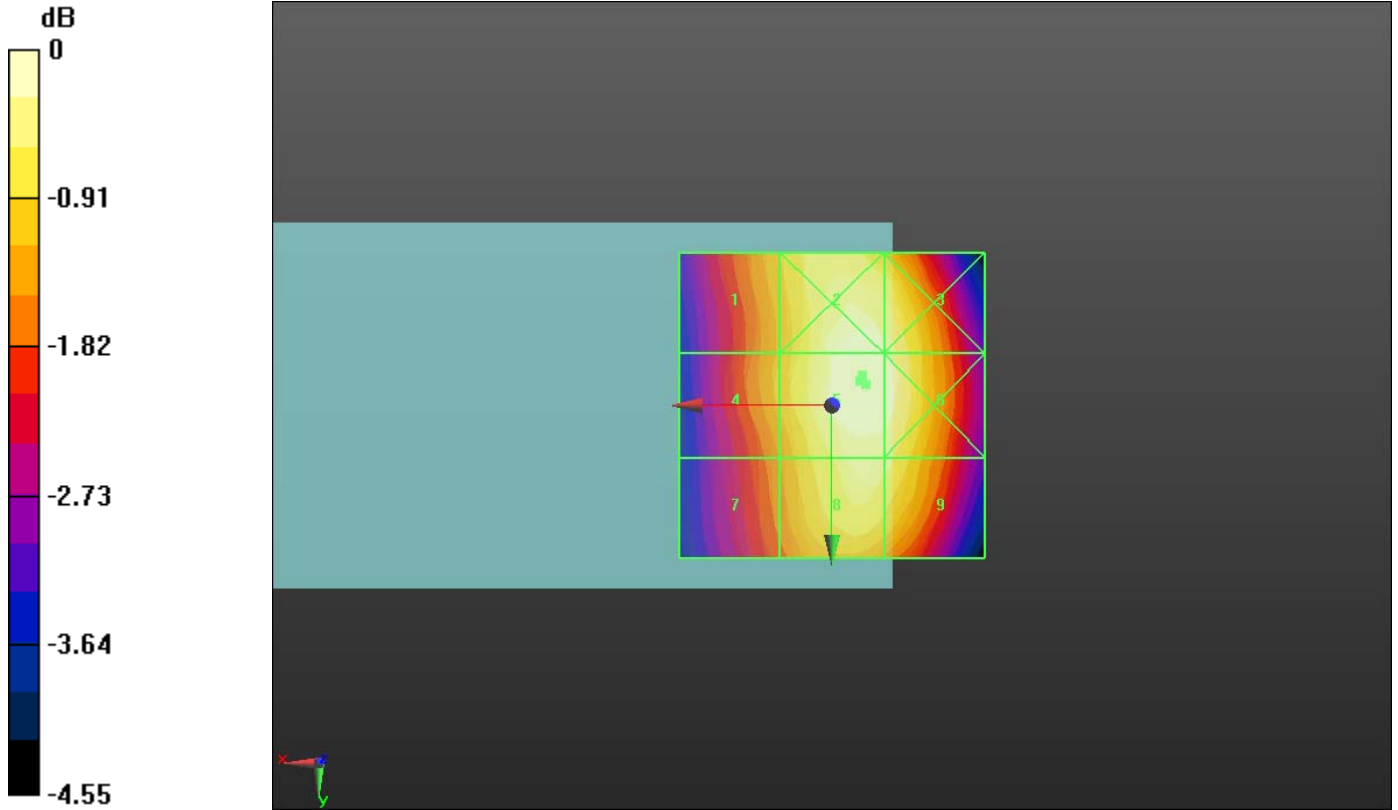
Total = 61.736 V/m  
E Category: M4  
Location: -5, -5, 8.7 mm

Author Data  
**Daoud Attayi**


Dates of Test  
**Jan. 12-19, 2011**  
**Feb. 28-Mar. 01, 2011**

Report No  
**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW**  
**L6ARDP70UW**



0 dB = 52.580V/m

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Date/Time: 3/1/2011 10:49:29 AM

Test Laboratory: RIM Testing Services

HAC RF\_E-Field\_UMTS\_band\_V

**DUT: BlackBerry Smartphone; Type: Sample**

Communication System: WCDMA FDD V; Communication System Band:

Exported from older format (data unavailable - please correct).; Frequency: 846.6 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)

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15**


**mm from Probe Center to the Device Telecoil cent/Hearing Aid**

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

Maximum value of peak Total field = 60.388 V/m

Probe Modulation Factor = 1.010

Device Reference Point: 0, 0, -6.3 mm

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Reference Value = 75.486 V/m; Power Drift = -0.07 dB

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

Peak E-field in V/m

Grid 1 <b>57.170 M4</b>	Grid 2 <b>61.145 M4</b>	Grid 3 <b>58.632 M4</b>
Grid 4 <b>56.145 M4</b>	Grid 5 <b>60.388 M4</b>	Grid 6 <b>57.980 M4</b>
Grid 7 <b>53.266 M4</b>	Grid 8 <b>56.485 M4</b>	Grid 9 <b>53.282 M4</b>

**Cursor:**

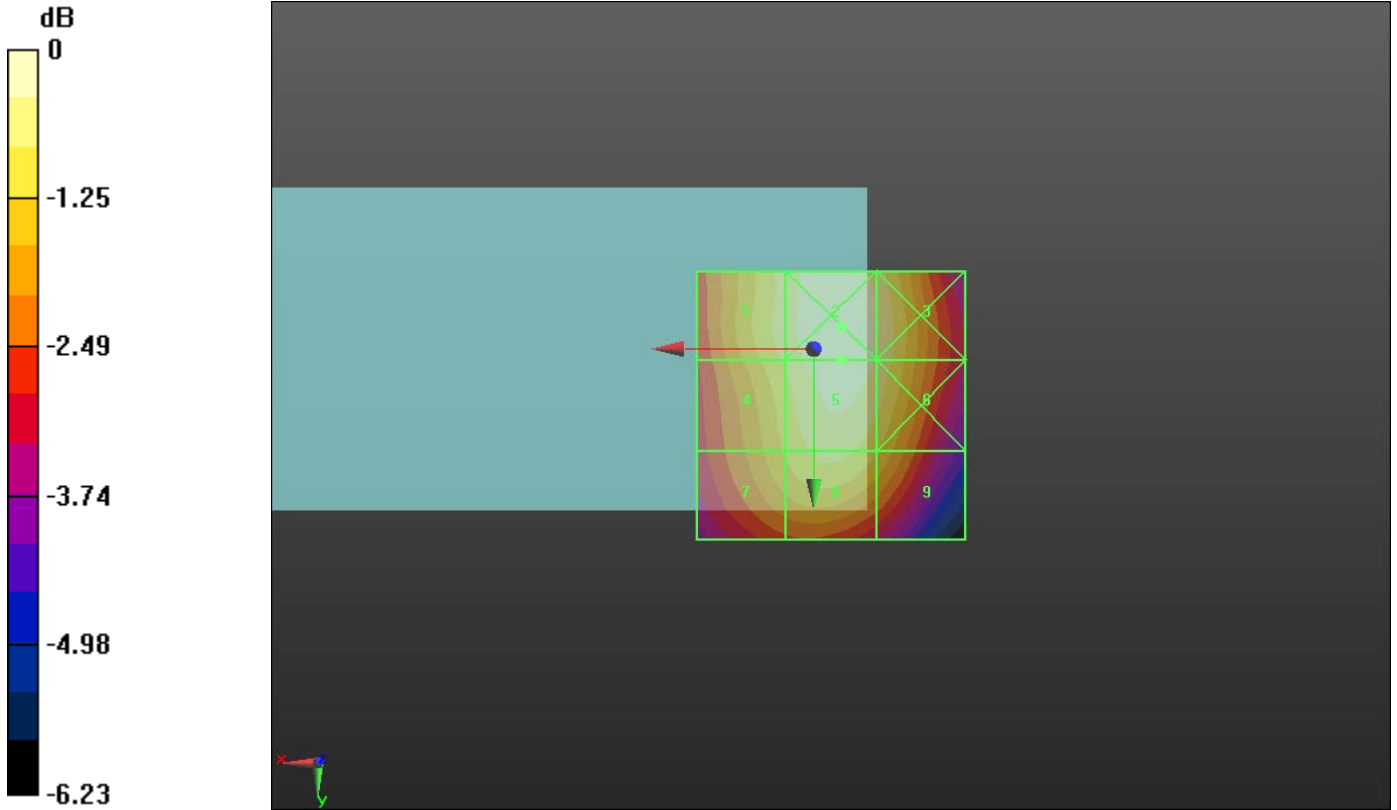
Total = 61.145 V/m  
E Category: M4  
Location: -5.2, -4, 8.7 mm

Author Data  
**Daoud Attayi**

Dates of Test  
**Jan. 12-19, 2011**  
**Feb. 28-Mar. 01, 2011**


Report No  
**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW**  
**L6ARDP70UW**



0 dB = 61.150V/m



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Date/Time: 3/1/2011 11:02:11 AM, Date/Time: 3/1/2011 11:07:14 AM,

Date/Time: 3/1/2011 11:11:37 AM

Test Laboratory: RIM Testing Services

HAC RF\_E-Field\_UMTS\_band\_II

**DUT: BlackBerry Smartphone; Type**

Communication System: WCDMA FDD II; Communication System Band:

Exported from older format (data unavailable - please correct).; Frequency: 1852.4 MHz, Frequency: 1880 MHz, Frequency: 1907.6 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: DASYS5 (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)

**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 = 30.010 V/m

Probe Modulation Factor = 1.120

Device Reference Point: 0, 0, -6.3 mm

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Reference Value = 19.777 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>18.239 M4</b>	Grid 2 <b>20.904 M4</b>	Grid 3 <b>22.582 M4</b>
Grid 4 <b>20.513 M4</b>	Grid 5 <b>29.636 M4</b>	Grid 6 <b>30.010 M4</b>
Grid 7 <b>32.994 M4</b>	Grid 8 <b>37.039 M4</b>	Grid 9 <b>36.418 M4</b>

**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 = 33.098 V/m  
Probe Modulation Factor = 1.120  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 22.386 V/m; Power Drift = -0.06 dB  
Hearing Aid Near-Field Category: **M4 (AWF 0 dB)**

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Peak E-field in V/m

Grid 1 <b>19.707 M4</b>	Grid 2 <b>22.672 M4</b>	Grid 3 <b>25.026 M4</b>
Grid 4 <b>21.951 M4</b>	Grid 5 <b>32.621 M4</b>	Grid 6 <b>33.098 M4</b>
Grid 7 <b>34.980 M4</b>	Grid 8 <b>40.051 M4</b>	Grid 9 <b>39.598 M4</b>

**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 = 35.333 V/m

Probe Modulation Factor = 1.120

Device Reference Point: 0, 0, -6.3 mm

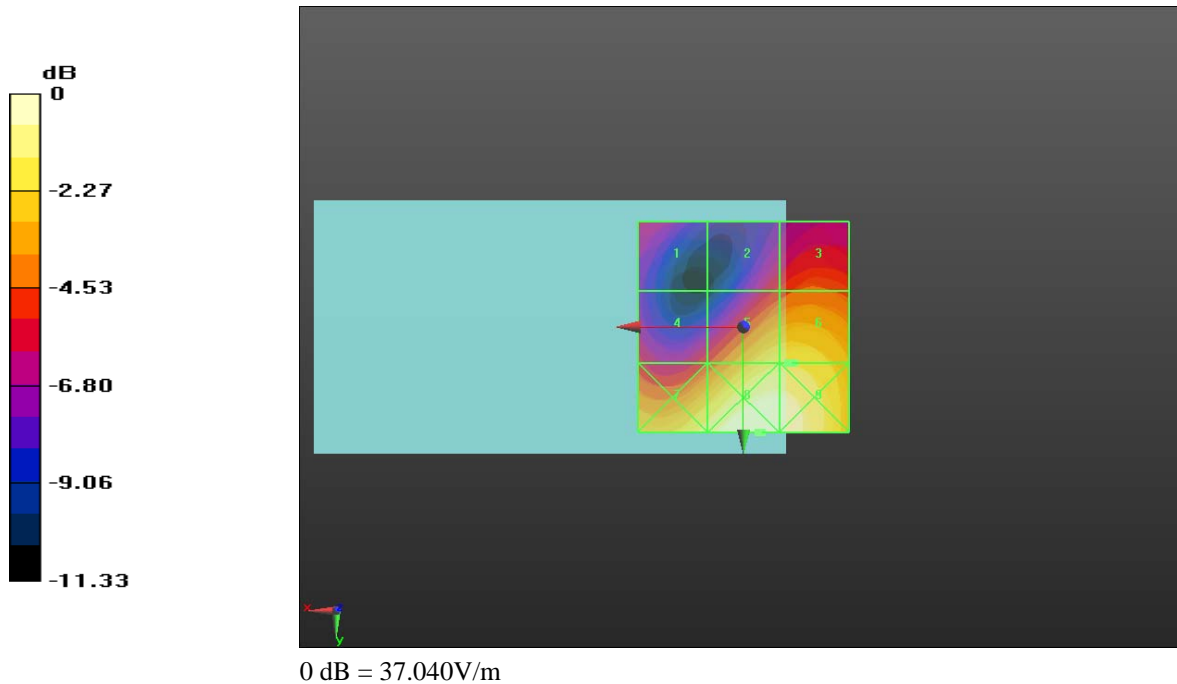
Reference Value = 26.282 V/m; Power Drift = 0.0066 dB


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

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Peak E-field in V/m

Grid 1 <b>21.198 M4</b>	Grid 2 <b>23.468 M4</b>	Grid 3 <b>25.389 M4</b>
Grid 4 <b>24.630 M4</b>	Grid 5 <b>35.187 M4</b>	Grid 6 <b>35.333 M4</b>
Grid 7 <b>37.167 M4</b>	Grid 8 <b>42.179 M4</b>	Grid 9 <b>41.288 M4</b>



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Date/Time: 3/1/2011 11:25:52 AM

Test Laboratory: RIM Testing Services

HAC RF\_E-Field\_UMTS\_band\_II

**DUT: BlackBerry Smartphone; Type: Sample**

Communication System: WCDMA FDD II; Communication System Band:

Exported from older format (data unavailable - please correct).; Frequency:

1907.6 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: 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)


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

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

Maximum value of peak Total field = 40.243 V/m

Probe Modulation Factor = 1.120

Device Reference Point: 0, 0, -6.3 mm

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Reference Value = 25.749 V/m; Power Drift = 0.19 dB

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

Peak E-field in V/m

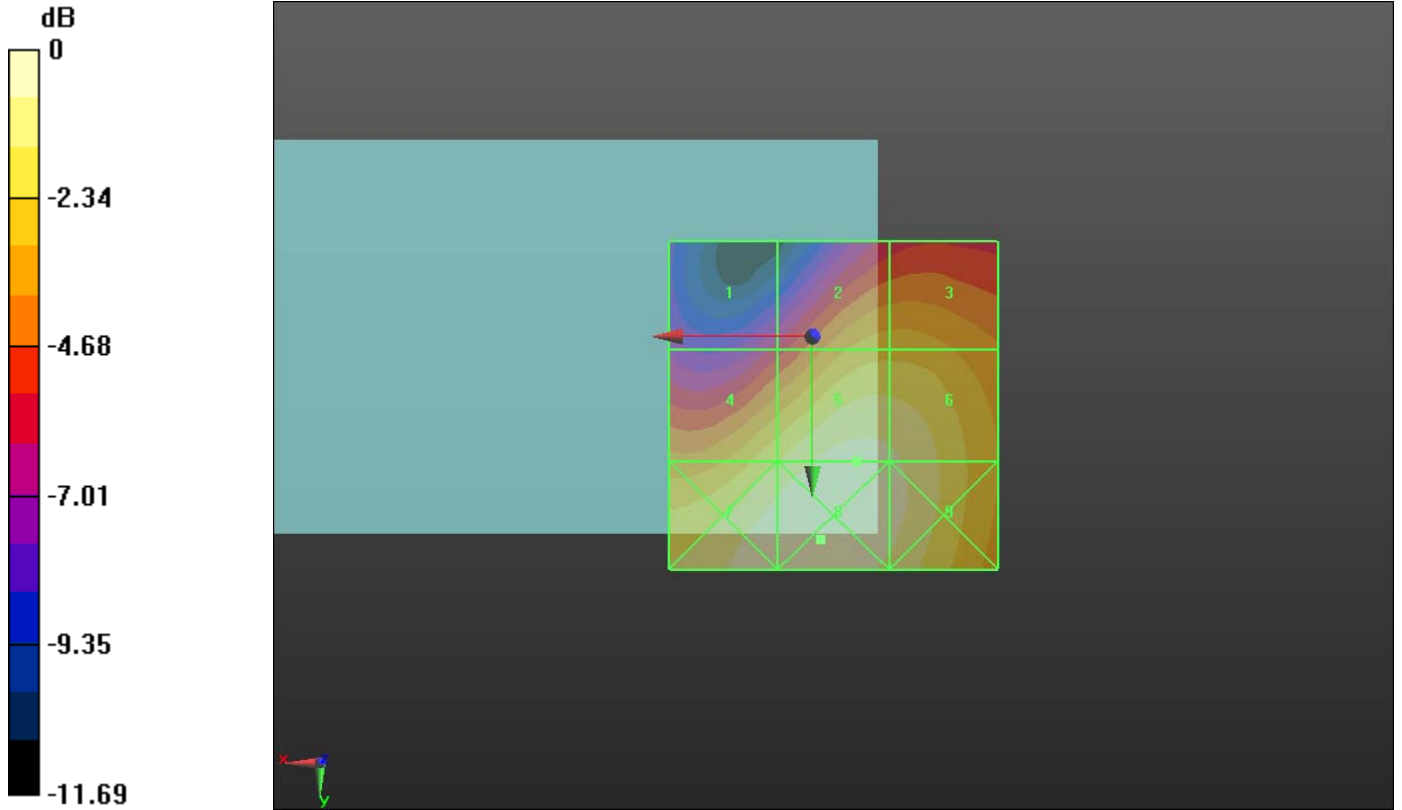
Grid 1  <b>21.556 M4</b>	Grid 2  <b>31.392 M4</b>	Grid 3  <b>31.432 M4</b>
Grid 4  <b>35.136 M4</b>	Grid 5  <b>40.243 M4</b>	Grid 6  <b>39.305 M4</b>
Grid 7  <b>41.463 M4</b>	Grid 8  <b>42.201 M4</b>	Grid 9  <b>39.966 M4</b>

Author Data  
**Daoud Attayi**


Dates of Test  
**Jan. 12-19, 2011  
 Feb. 28-Mar. 01, 2011**

Report No  
**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW  
 L6ARDP70UW**



0 dB = 42.200V/m

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Date/Time: 3/1/2011 11:49:04 AM, Date/Time: 3/1/2011 11:55:01 AM,

Date/Time: 3/1/2011 12:01:51 PM

Test Laboratory: RIM Testing Services

HAC RF\_H-Field\_UMTS\_band V

**DUT: BlackBerry Smartphone; Type: Sample**

Communication System: WCDMA FDD V; Communication System Band:

Exported from older format (data unavailable - please correct).; Frequency: 826.4

MHz, Frequency: 836.4 MHz, Frequency: 846.6 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: DASYS5 (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: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

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


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

Maximum value of peak Total field = 0.106 A/m

Probe Modulation Factor = 0.990

Device Reference Point: 0, 0, -6.3 mm



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Reference Value = 0.062 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>0.106 M4</b>	Grid 2 <b>0.076 M4</b>	Grid 3 <b>0.046 M4</b>
Grid 4 <b>0.105 M4</b>	Grid 5 <b>0.075 M4</b>	Grid 6 <b>0.046 M4</b>
Grid 7 <b>0.114 M4</b>	Grid 8 <b>0.081 M4</b>	Grid 9 <b>0.050 M4</b>


**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 = 0.109 A/m  
Probe Modulation Factor = 0.990  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 0.065 A/m; Power Drift = -0.07 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

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Peak H-field in A/m

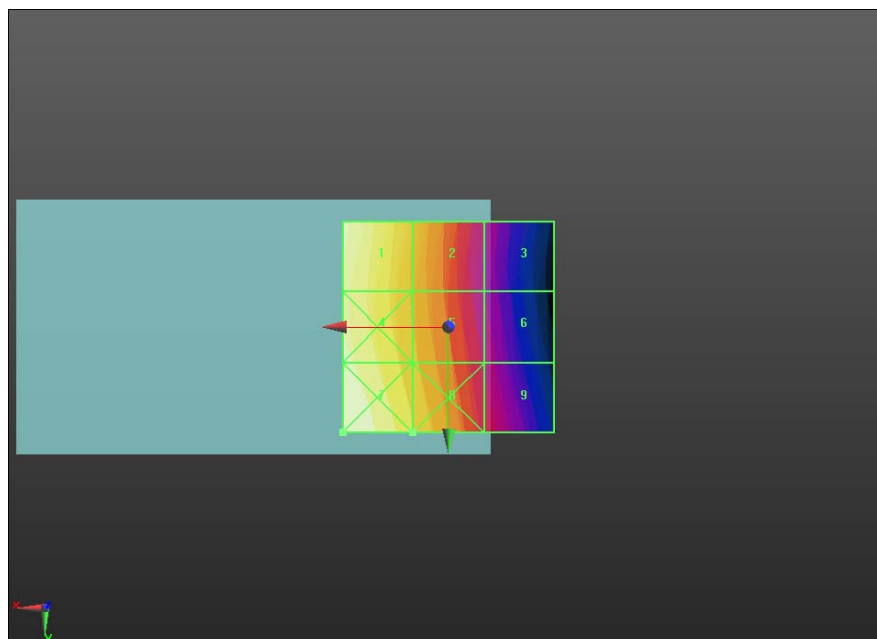
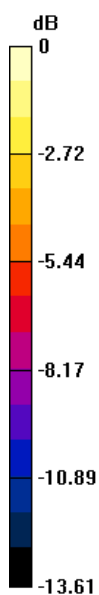
Grid 1 <b>0.109 M4</b>	Grid 2 <b>0.080 M4</b>	Grid 3 <b>0.050 M4</b>
Grid 4 <b>0.105 M4</b>	Grid 5 <b>0.077 M4</b>	Grid 6 <b>0.048 M4</b>
Grid 7 <b>0.114 M4</b>	Grid 8 <b>0.082 M4</b>	Grid 9 <b>0.051 M4</b>

**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 = 0.120 A/m  
Probe Modulation Factor = 0.990  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 0.077 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 <b>0.120 M4</b>	Grid 2 <b>0.089 M4</b>	Grid 3 <b>0.055 M4</b>
Grid 4 <b>0.122 M4</b>	Grid 5 <b>0.092 M4</b>	Grid 6 <b>0.060 M4</b>
Grid 7 <b>0.134 M4</b>	Grid 8 <b>0.099 M4</b>	Grid 9 <b>0.065 M4</b>



0 dB = 0.110A/m

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Date/Time: 3/1/2011 12:05:47 PM

Test Laboratory: RIM Testing Services

HAC RF\_H-Field\_UMTS\_band V

**DUT: BlackBerry Smartphone; Type: Sample**

Communication System: WCDMA FDD V; Communication System Band:

Exported from older format (data unavailable - please correct).; Frequency: 846.6

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)

**Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2 2 2/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.113 A/m

Probe Modulation Factor = 0.990

Device Reference Point: 0, 0, -6.3 mm

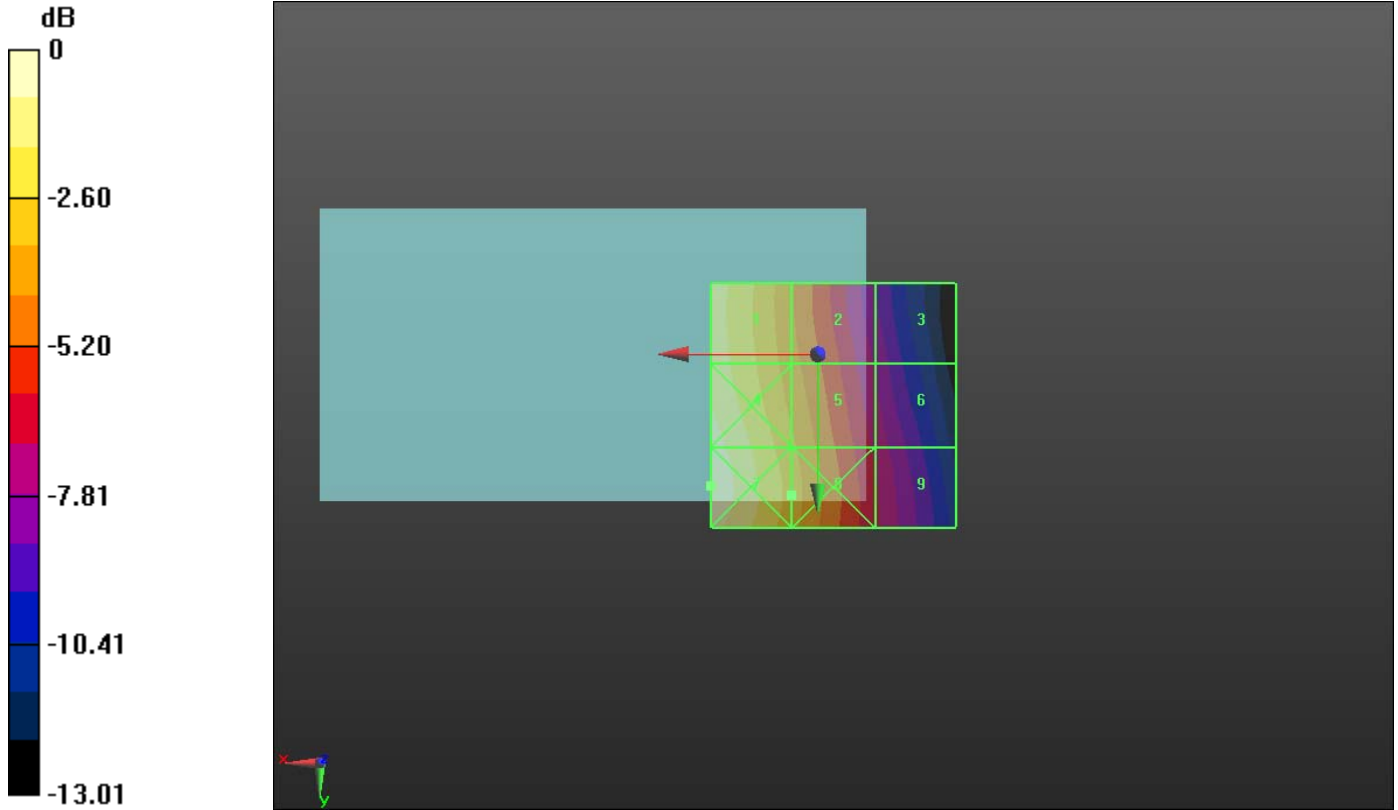
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Reference Value = 0.077 A/m; Power Drift = -0.06 dB


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

Peak H-field in A/m

Grid 1 <b>0.113 M4</b>	Grid 2 <b>0.082 M4</b>	Grid 3 <b>0.053 M4</b>
Grid 4 <b>0.124 M4</b>	Grid 5 <b>0.089 M4</b>	Grid 6 <b>0.057 M4</b>
Grid 7 <b>0.127 M4</b>	Grid 8 <b>0.092 M4</b>	Grid 9 <b>0.060 M4</b>



0 dB = 0.130A/m

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Date/Time: 3/1/2011 12:17:38 PM, Date/Time: 3/1/2011 12:21:56 PM,

Date/Time: 3/1/2011 12:39:06 PM

Test Laboratory: RIM Testing Services

HAC RF\_H-Field\_UMTS\_band II

**DUT: BlackBerry Smartphone; Type: Sample**

Communication System: WCDMA FDD II; Communication System Band:

Exported from older format (data unavailable - please correct).; Frequency: 1852.4 MHz, Frequency: 1880 MHz, Frequency: 1907.6 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: DASYS5 (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: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)


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

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

Maximum value of peak Total field = 0.096 A/m

Probe Modulation Factor = 1.120

Device Reference Point: 0, 0, -6.3 mm

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Reference Value = 0.092 A/m; Power Drift = -0.16 dB

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

Peak H-field in A/m

Grid 1 <b>0.075 M4</b>	Grid 2 <b>0.081 M4</b>	Grid 3 <b>0.077 M4</b>
Grid 4 <b>0.096 M4</b>	Grid 5 <b>0.096 M4</b>	Grid 6 <b>0.086 M4</b>
Grid 7 <b>0.124 M4</b>	Grid 8 <b>0.111 M4</b>	Grid 9 <b>0.088 M4</b>

**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 = 0.105 A/m


Probe Modulation Factor = 1.120

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)**




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Peak H-field in A/m

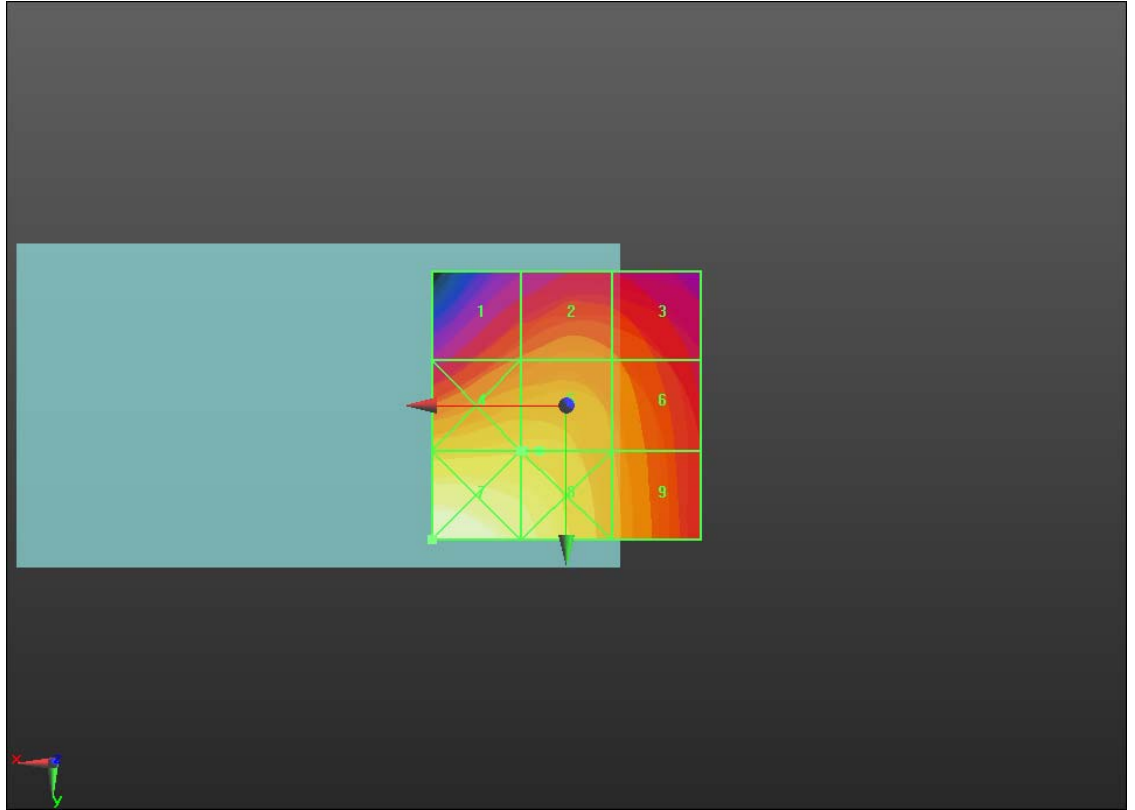
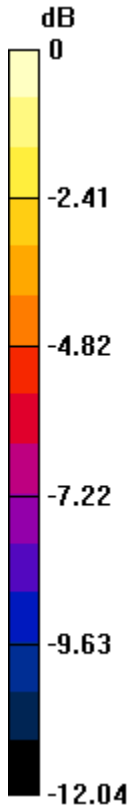
Grid 1  <b>0.079 M4</b>	Grid 2  <b>0.085 M4</b>	Grid 3  <b>0.082 M4</b>
Grid 4  <b>0.105 M4</b>	Grid 5  <b>0.105 M4</b>	Grid 6  <b>0.095 M4</b>
Grid 7  <b>0.140 M4</b>	Grid 8  <b>0.124 M4</b>	Grid 9  <b>0.097 M4</b>

**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 = 0.112 A/m  
Probe Modulation Factor = 1.120  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 0.100 A/m; Power Drift = 0.07 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**


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Peak H-field in A/m

Grid 1 <b>0.088 M4</b>	Grid 2 <b>0.092 M4</b>	Grid 3 <b>0.088 M4</b>
Grid 4 <b>0.113 M4</b>	Grid 5 <b>0.112 M4</b>	Grid 6 <b>0.095 M4</b>
Grid 7 <b>0.149 M4</b>	Grid 8 <b>0.131 M4</b>	Grid 9 <b>0.098 M4</b>



0 dB = 0.120A/m

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Date/Time: 3/1/2011 12:45:24 PM

Test Laboratory: RIM Testing Services

HAC RF\_H-Field\_UMTS\_band II

**DUT: BlackBerry Smartphone; Type: Sample**

Communication System: WCDMA FDD II; Communication System Band:

Exported from older format (data unavailable - please correct).; Frequency:

1907.6 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: DASYS5 (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)

**Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2 2 2/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.122 A/m

Probe Modulation Factor = 1.120

Device Reference Point: 0, 0, -6.3 mm

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Reference Value = 0.102 A/m; Power Drift = -0.16 dB

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

Peak H-field in A/m

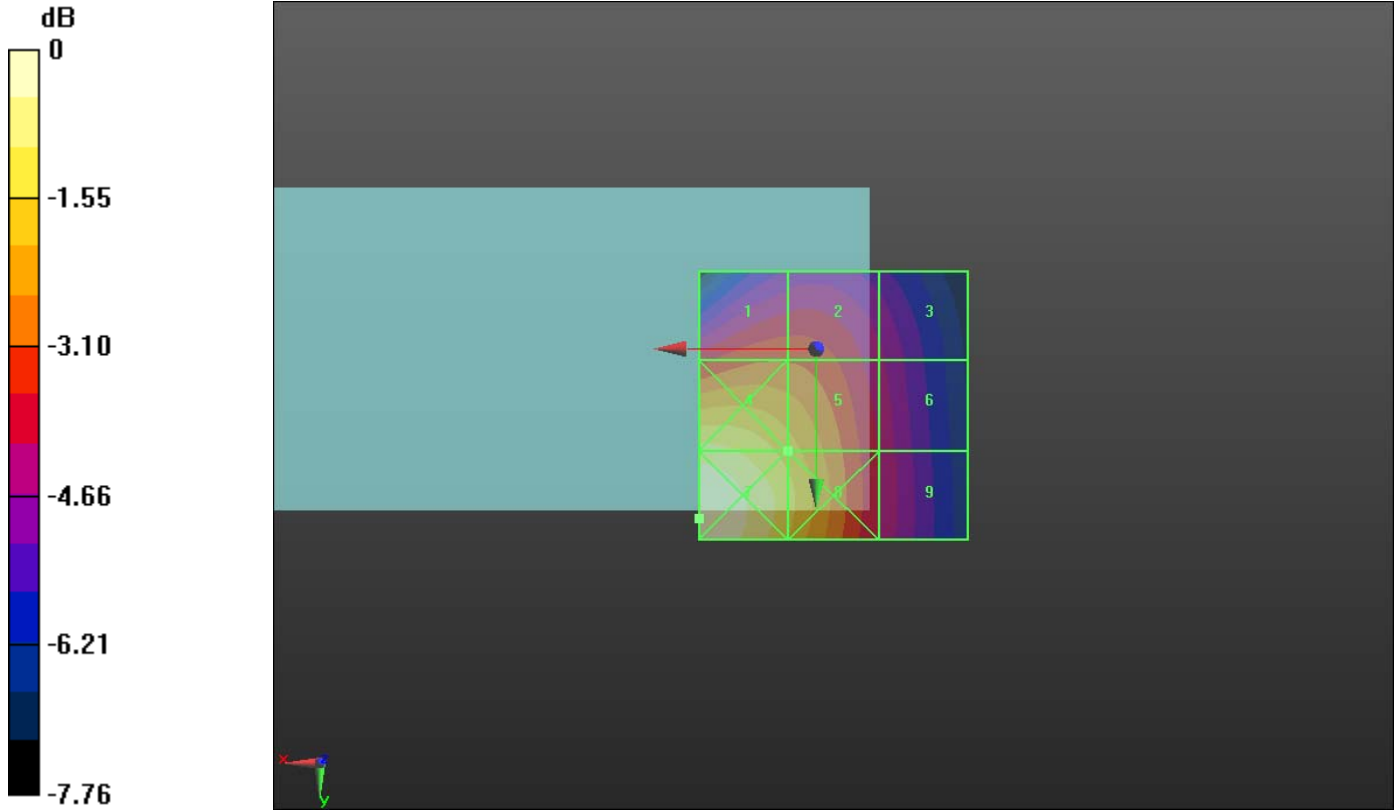
Grid 1 <b>0.105</b> M <b>4</b>	Grid 2 <b>0.104</b> M <b>4</b>	Grid 3 <b>0.089</b> M <b>4</b>
Grid 4 <b>0.137</b> M <b>4</b>	Grid 5 <b>0.122</b> M <b>4</b>	Grid 6 <b>0.093</b> M <b>4</b>
Grid 7 <b>0.153</b> M <b>4</b>	Grid 8 <b>0.129</b> M <b>4</b>	Grid 9 <b>0.094</b> M <b>4</b>

Author Data  
**Daoud Attayi**

Dates of Test  
**Jan. 12-19, 2011**  
**Feb. 28-Mar. 01, 2011**

Report No  
**RTS-2605-1102-02A**

FCC ID  
**L6ARDH70CW**  
**L6ARDP70UW**



0 dB = 0.150A/m