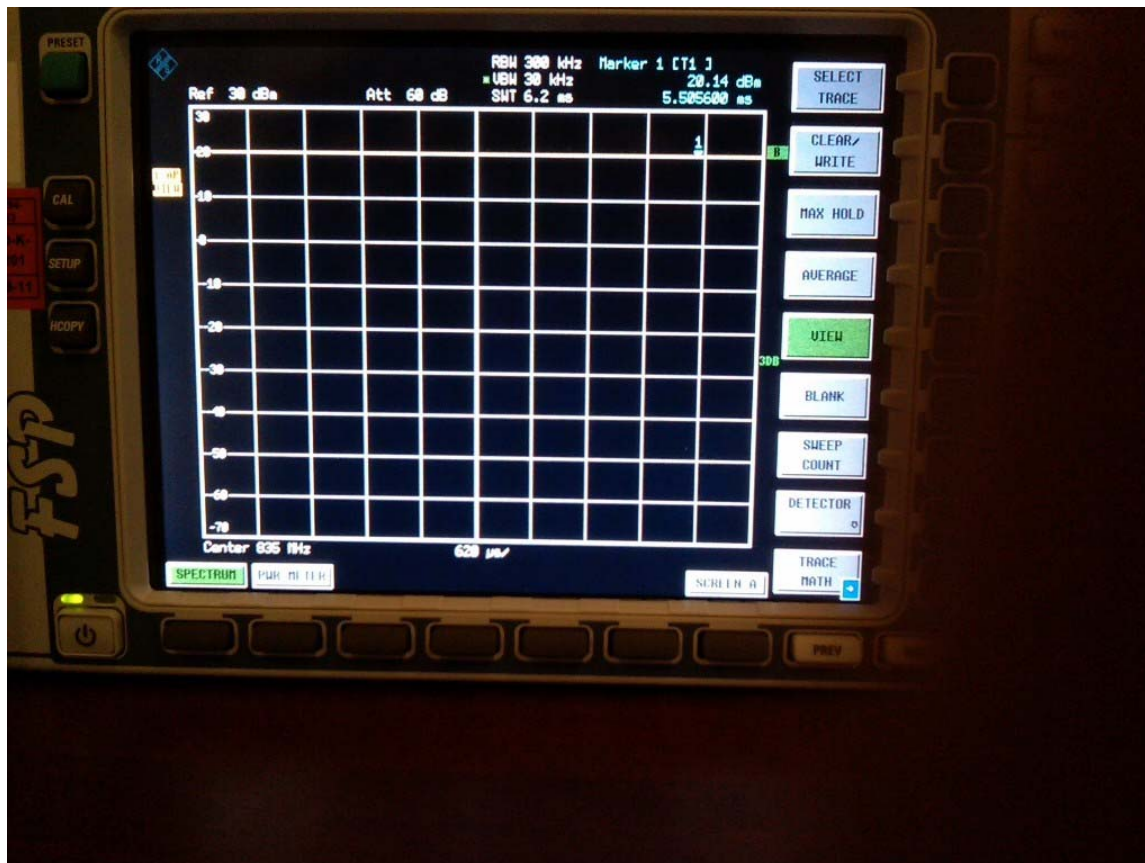

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCV71UW		Page 1 (128)
Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

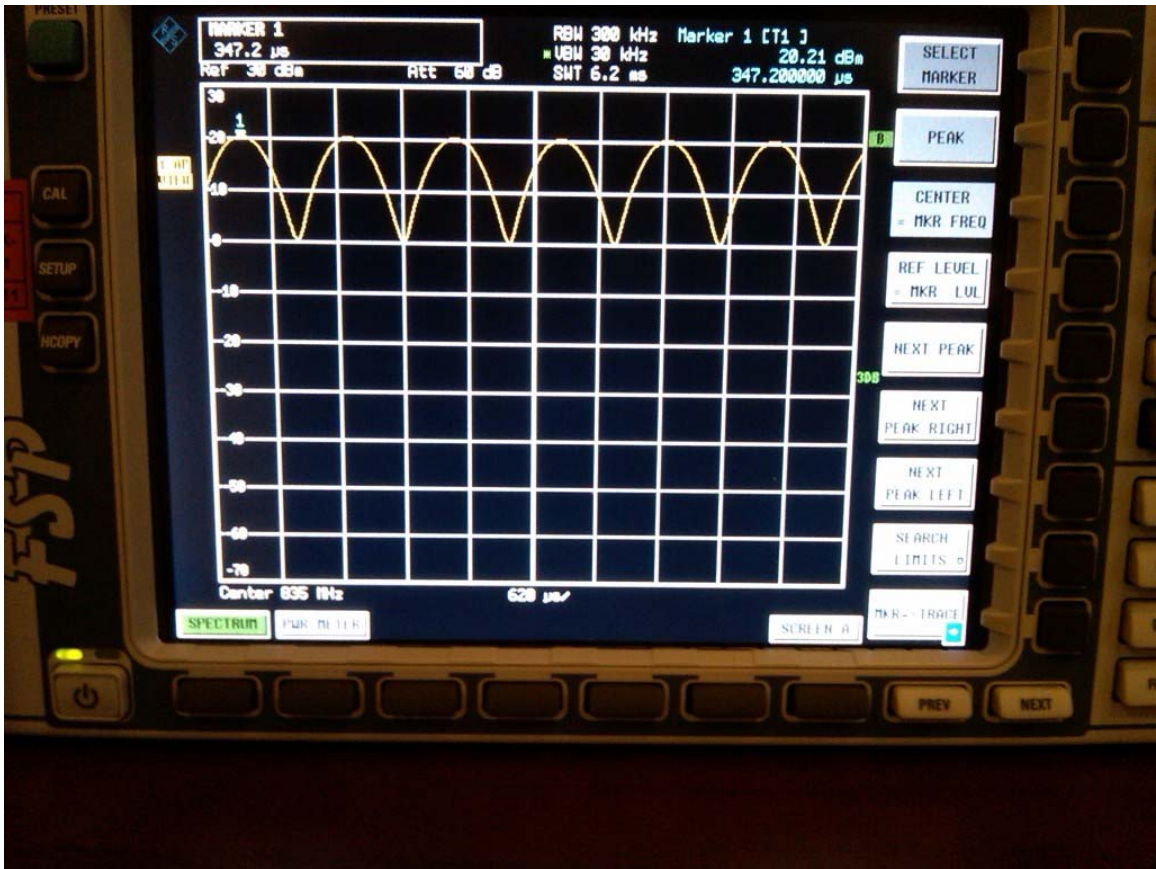
Annex A: Measurement data and plots

A.1 Spectrum analyser plots: CW, 80%AM, GSM and WCDMA signals




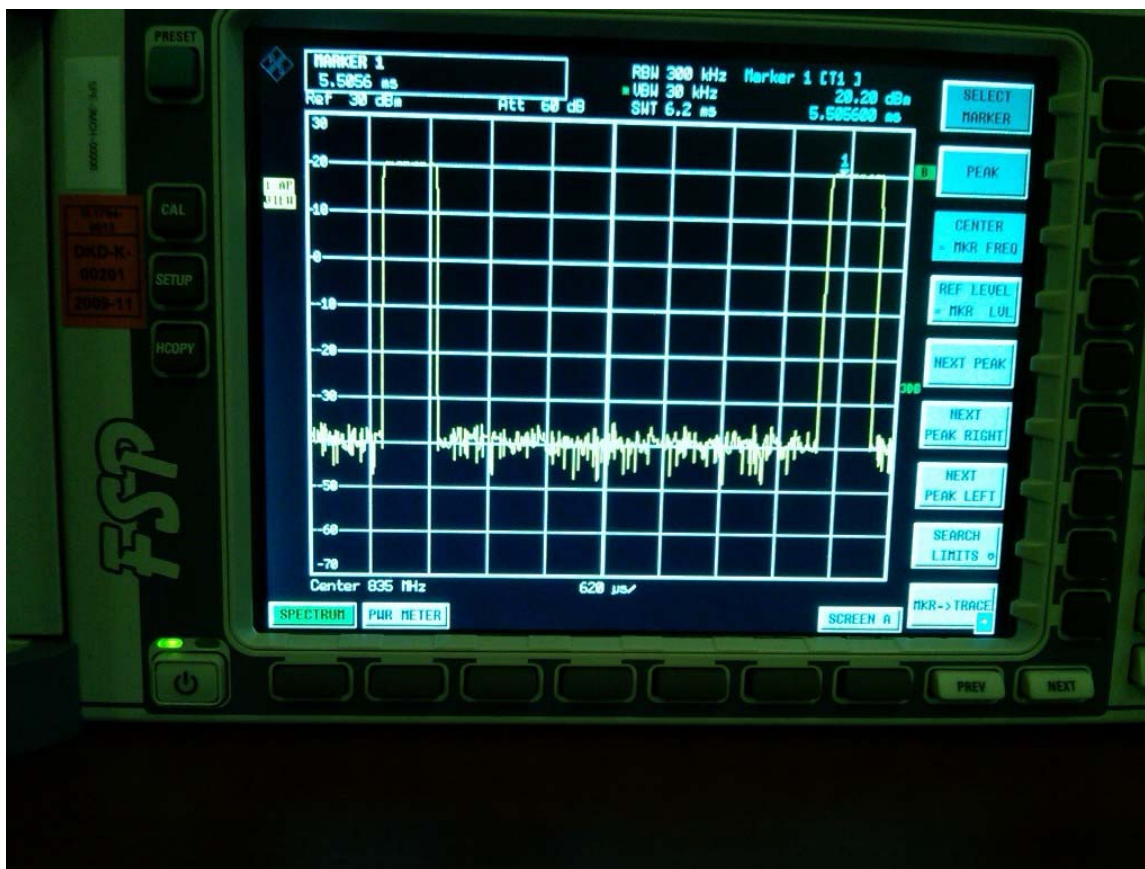
0 Hz Span CW Plot (835MHz)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCV71UW		Page 2 (128)
Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW




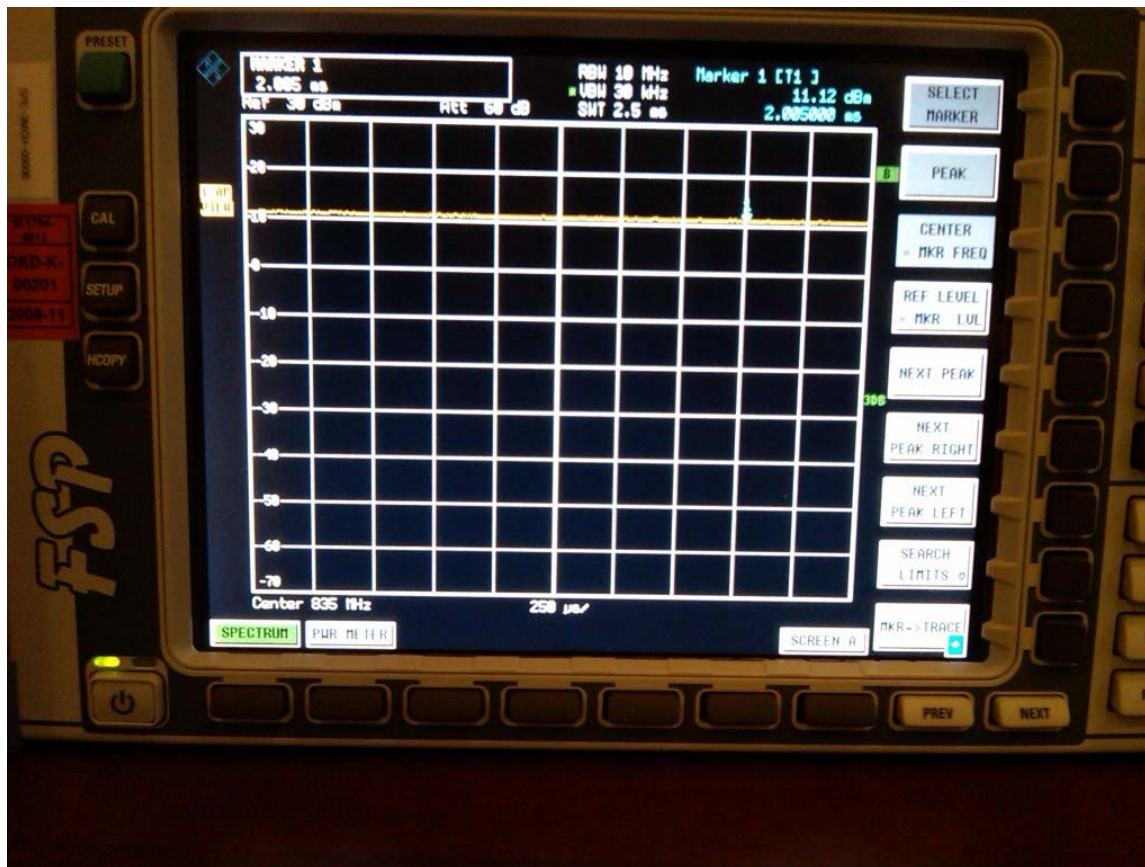
0 Hz Span 80% AM Plot (835MHz)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCV71UW		Page 3 (128)
Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW




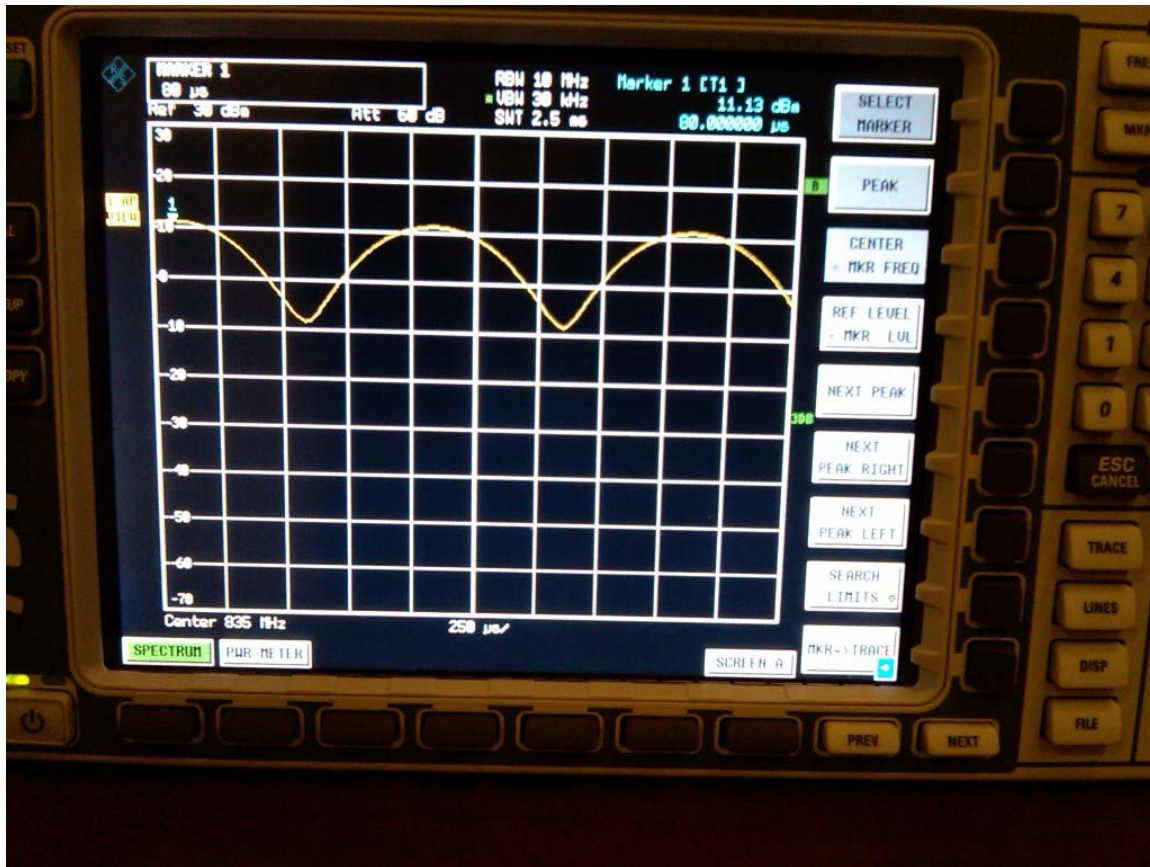
0 Hz Span GSM (835MHz)

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW




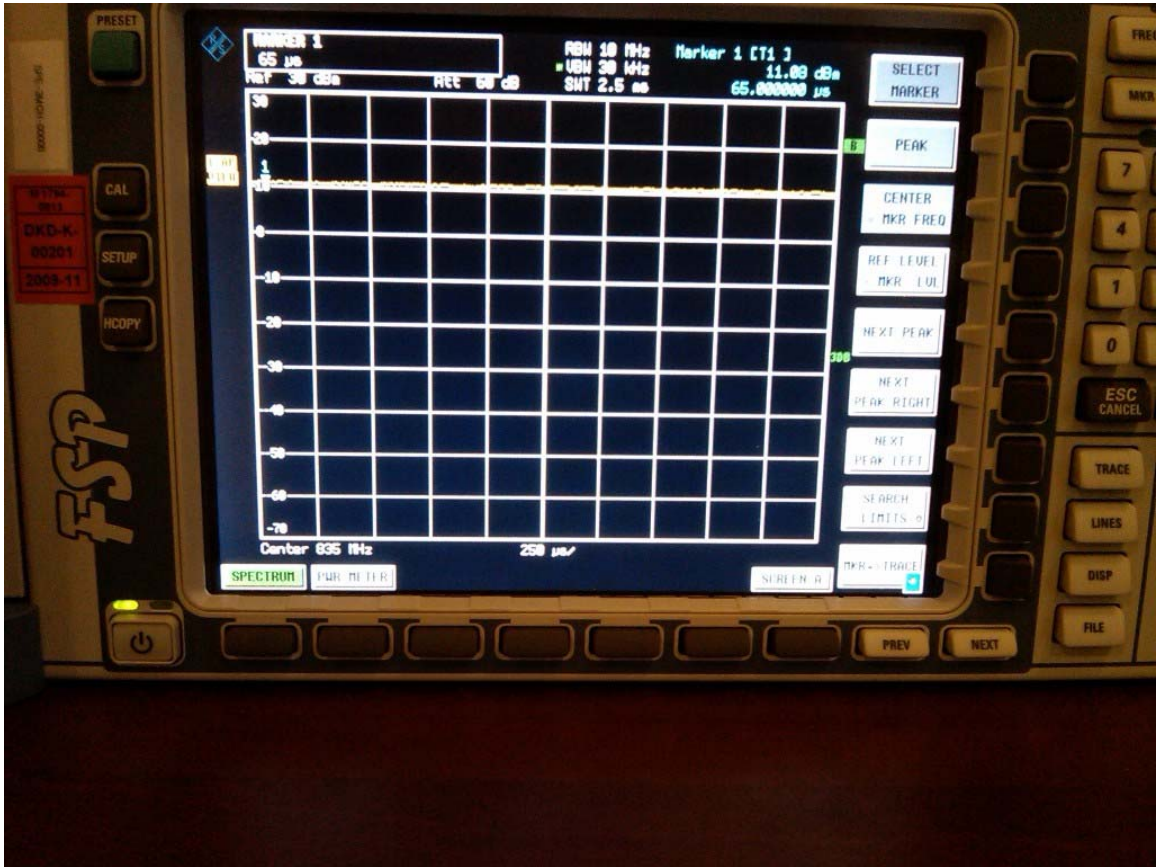
0 Hz Span CW Plot (835MHz)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCV71UW		Page 5 (128)
Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW




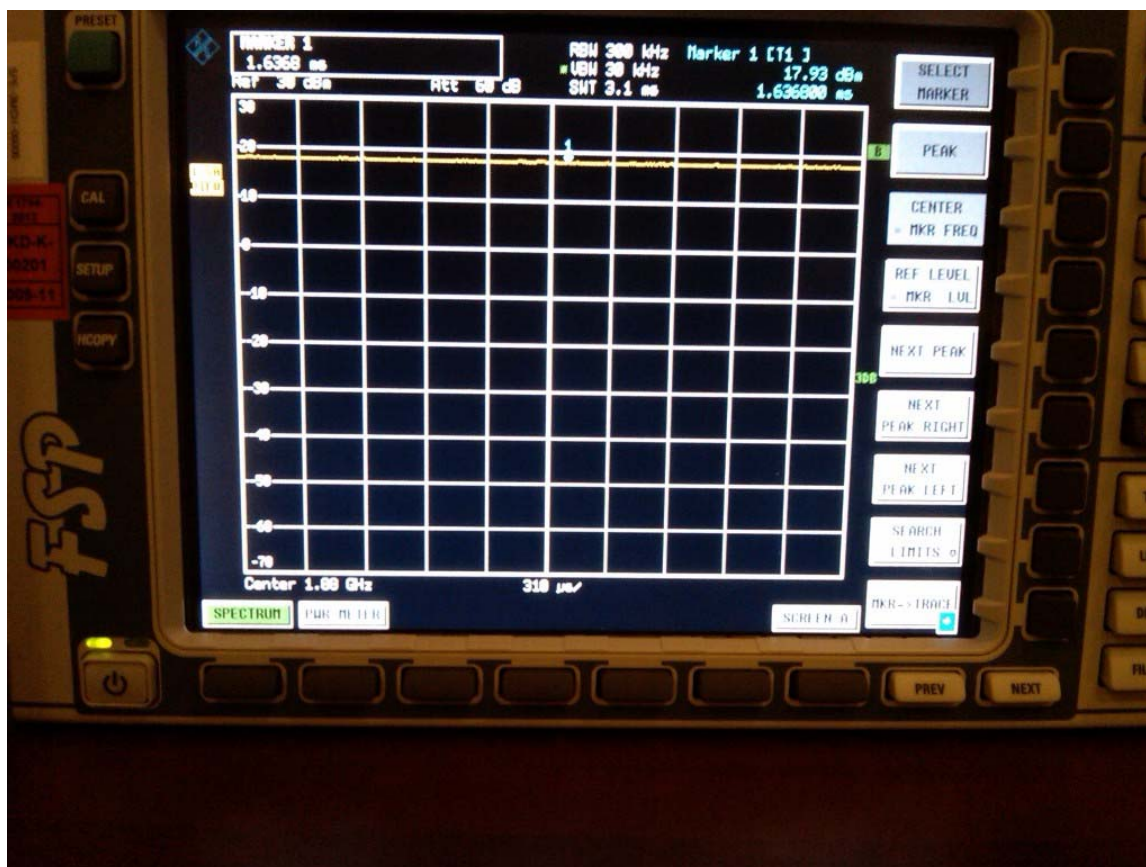
0 Hz Span 80% AM Plot (835MHz)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCV71UW		Page 6 (128)
Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW




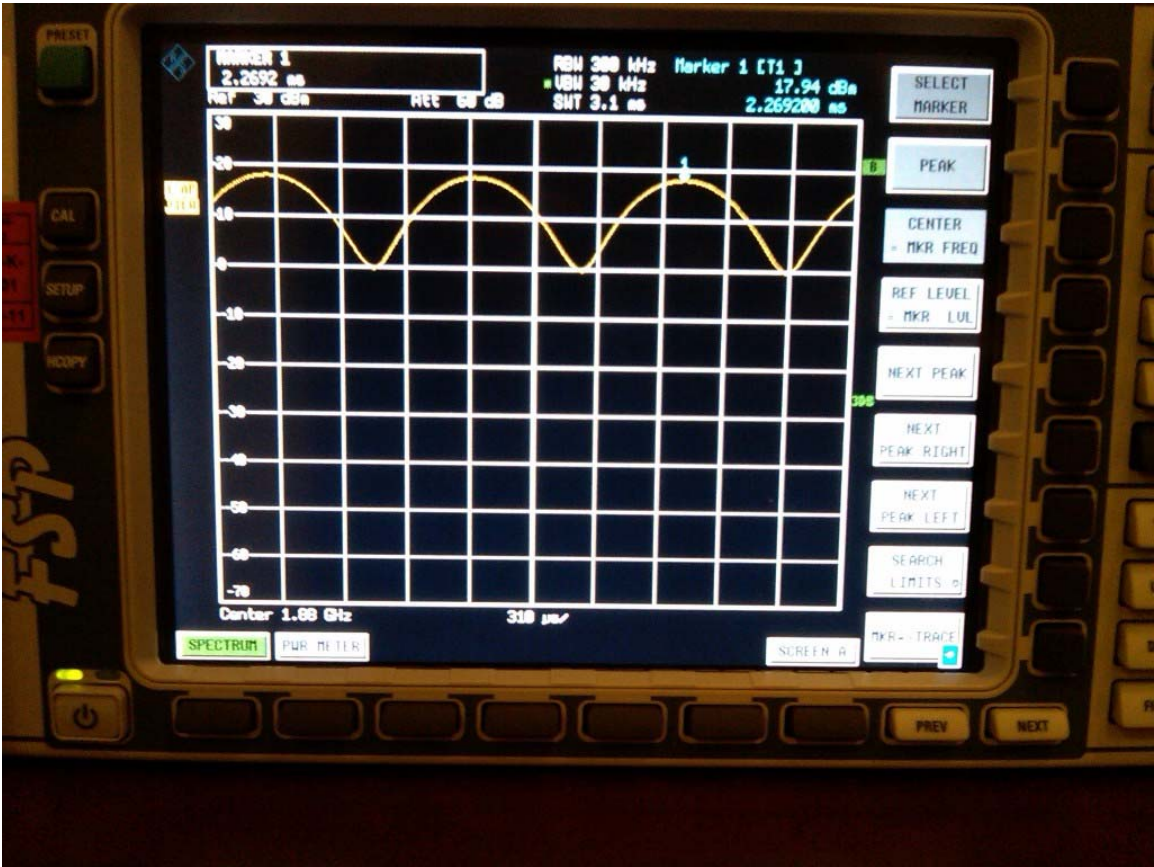
0 Hz Span WCDMA (835MHz)

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Author Data	Dates of Test	Report No	FCC ID	
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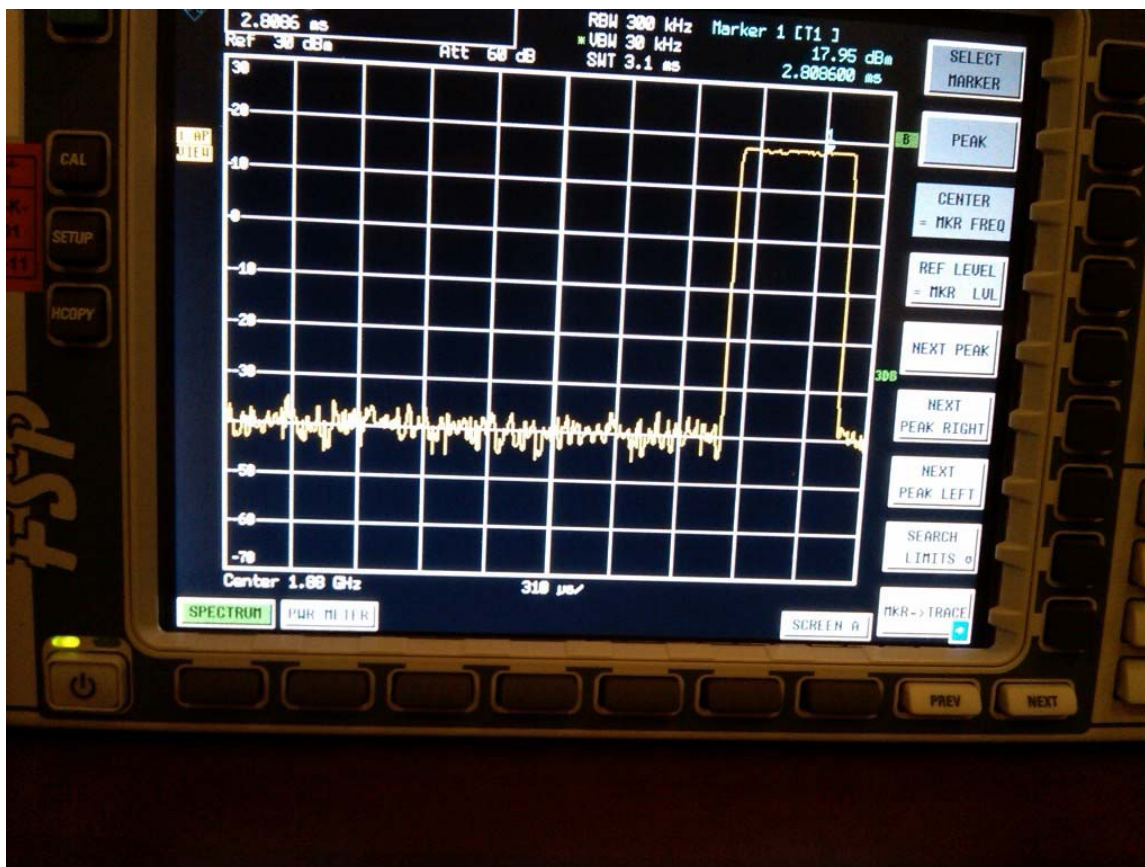
0 Hz Span CW Plot (1880MHz)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCV71UW		Page 8 (128)
Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW




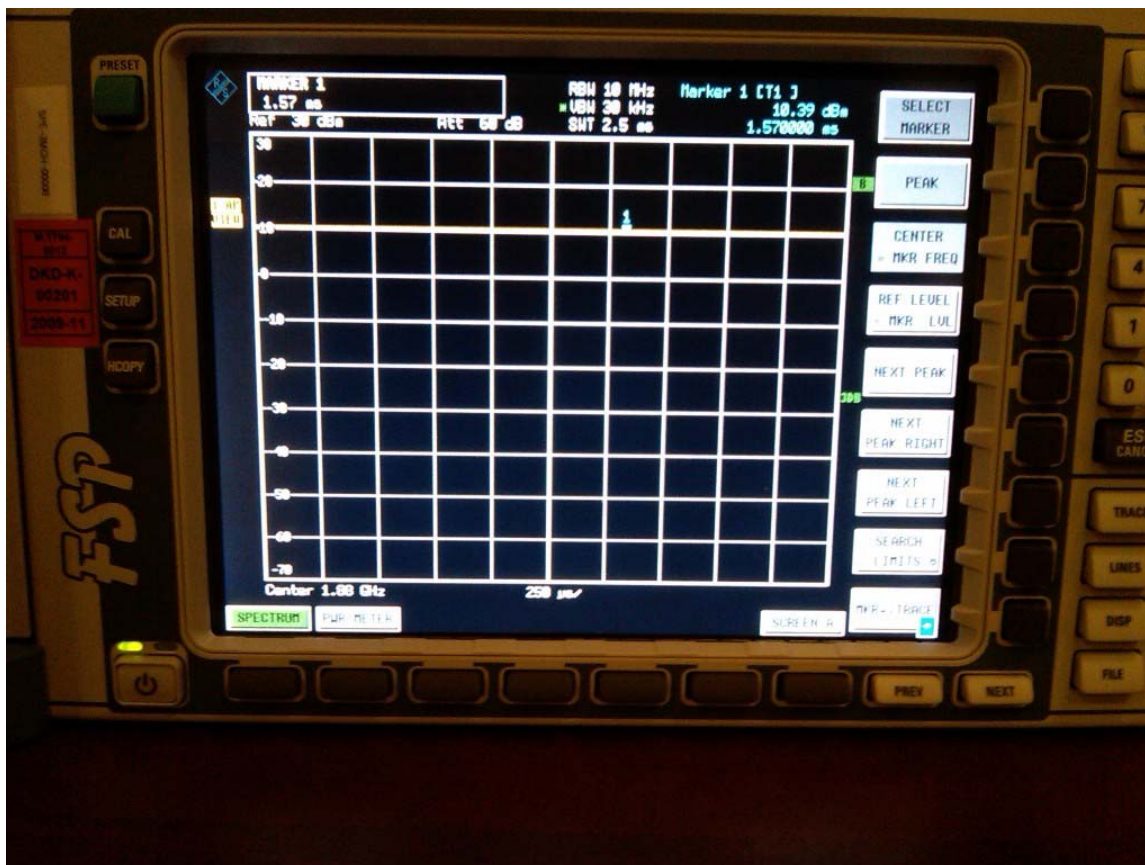
0 Hz Span 80% AM Plot (1880MHz)

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW




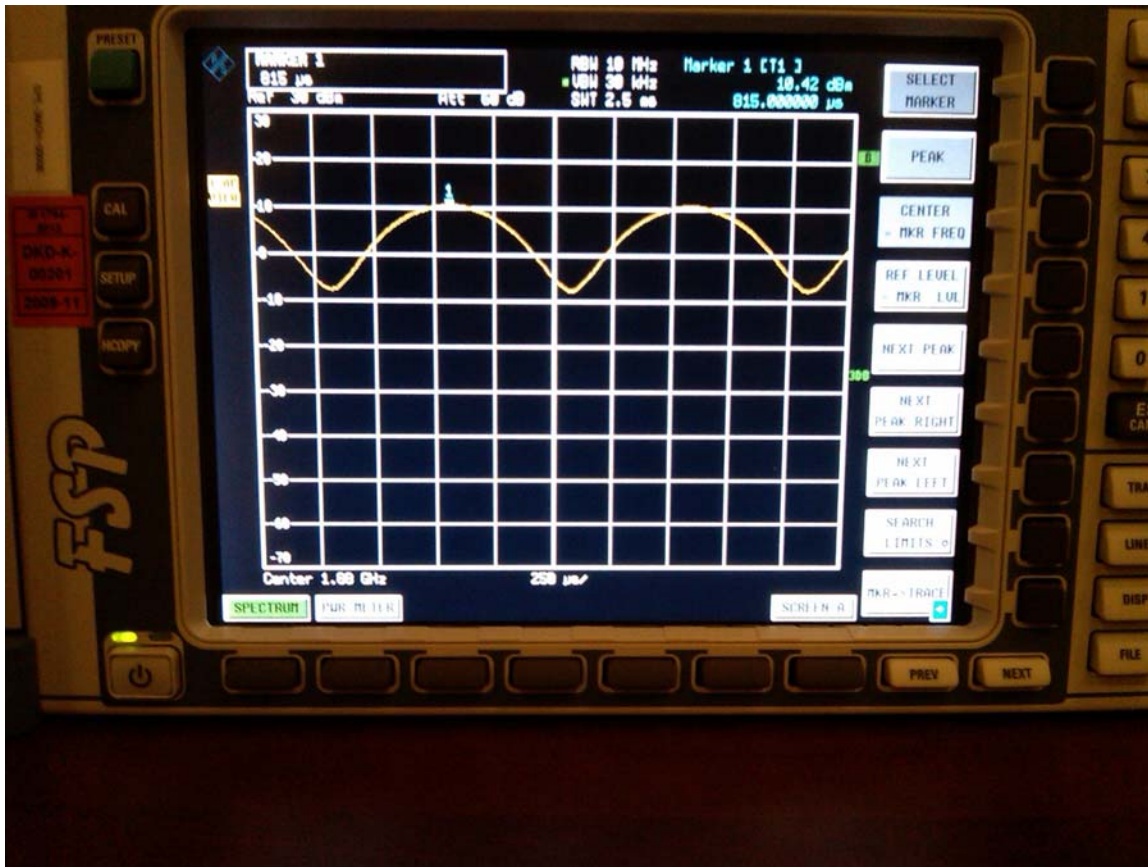
0 Hz Span GSM (1880MHz)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCV71UW		Page 10 (128)
Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW




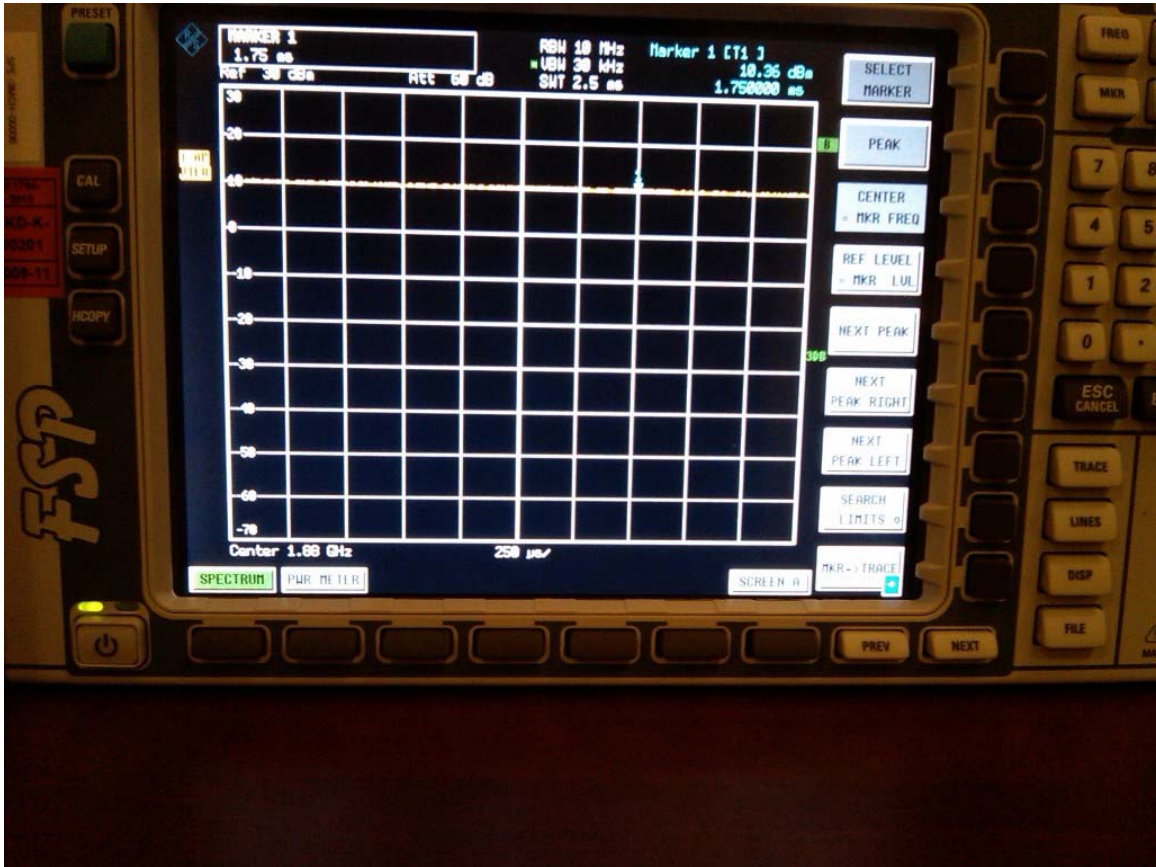
0 Hz Span CW Plot (1880MHz)

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0 Hz Span 80% AM Plot (1880MHz)


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0 Hz Span WCDMA (1880MHz)

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A.2 Dipole validation and probe modulation factor plots

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Date/Time: 2/26/2010 5:37:12 PM

Test Laboratory: RIM Testing Services

File Name: [HAC_E_Dipole_835MHz_da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: **Not Specified**

Program Name: HAC RF E Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 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 = 128.0 V/m; Power Drift = 0.027 dB

Maximum value of Total (measured) = 174.7 V/m

E Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid:

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

dx=5mm, dy=5mm

Maximum value of peak Total field = 177.7 V/m

Probe Modulation Factor = 1.00

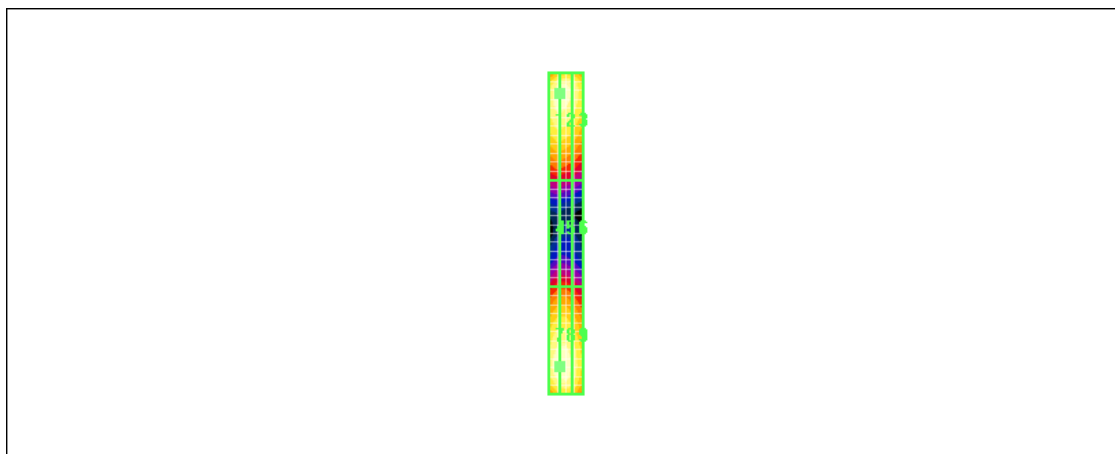
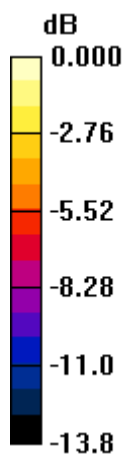
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 128.0 V/m; Power Drift = 0.027 dB


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

Peak E-field in V/m

Grid 1 173.7 M4	Grid 2 173.7 M4	Grid 3 161.2 M4
Grid 4 92.7 M4	Grid 5 93.3 M4	Grid 6 86.1 M4
Grid 7 177.7 M4	Grid 8 177.7 M4	Grid 9 158.8 M4



0 dB = 177.7V/m

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Date/Time: 3/4/2010 11:41:24 AM

Test Laboratory: RIM Testing Services

File Name: [HAC_E_Dipole_835MHz_CW_GSM_mod.da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: Not Specified

Program Name: HAC RF E Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 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 = 108.1 V/m; Power Drift = -0.048 dB

Maximum value of Total (measured) = 169.4 V/m

E Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid:

dx=5mm, dy=5mm

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Maximum value of peak Total field = 170.3 V/m

Probe Modulation Factor = 1.00

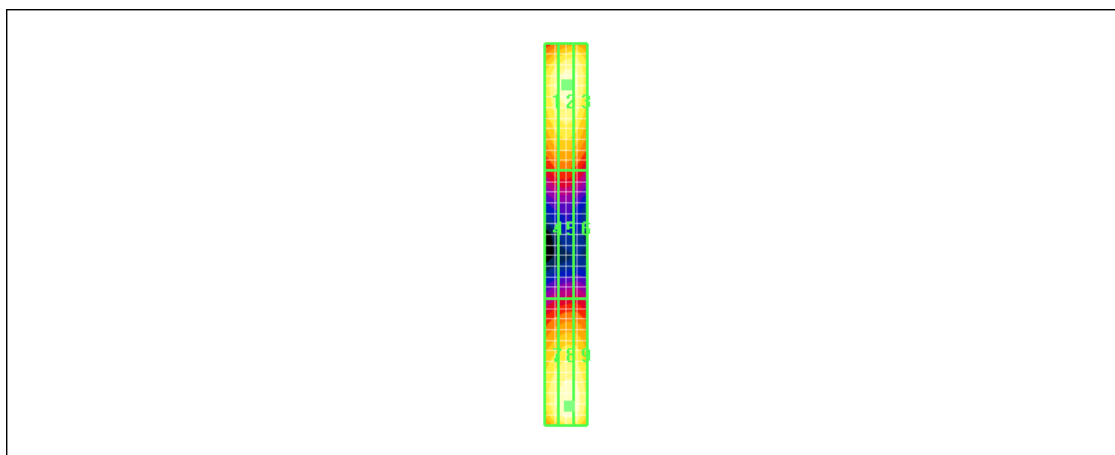
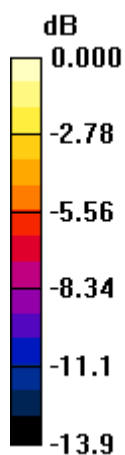
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 108.1 V/m; Power Drift = -0.048 dB


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

Peak E-field in V/m

Grid 1 157.1 M4	Grid 2 163.3 M4	Grid 3 160.3 M4
Grid 4 89.5 M4	Grid 5 90.8 M4	Grid 6 87.2 M4
Grid 7 160.0 M4	Grid 8 170.3 M4	Grid 9 167.8 M4



0 dB = 170.3V/m

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Date/Time: 3/4/2010 12:47:29 PM

Test Laboratory: RIM Testing Services

File Name: [HAC_E_Dipole_835MHz_AM80%_GSM_modda4.da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: **Not Specified**

Program Name: HAC RF E Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 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 = 69.5 V/m; Power Drift = 0.031 dB

Maximum value of Total (measured) = 108.6 V/m

E Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid:

dx=5mm, dy=5mm

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Author Data
Daoud Attayi

Dates of Test
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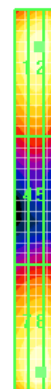
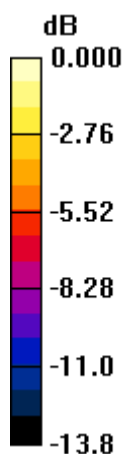
FCC ID
L6ARCV70UW

Probe Modulation Factor = 1.00


Reference Value = 69.5 V/m; Power Drift = 0.031 dB

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

Grid 1	Grid 2	Grid 3
102.8 M4	106.6 M4	105.8 M4
Grid 4	Grid 5	Grid 6
58.2 M4	59.2 M4	57.5 M4
Grid 7	Grid 8	Grid 9
102.7 M4	109.6 M4	108.5 M4



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Date/Time: 3/4/2010 11:06:08 AM

Test Laboratory: RIM Testing Services

File Name: [HAC_E_Dipole_835MHz_GSM_mod.da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: Not Specified

Program Name: HAC RF E Dipole

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/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 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 = 37.8 V/m; Power Drift = -0.093 dB

Maximum value of Total (measured) = 58.6 V/m

E Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid:

dx=5mm, dy=5mm

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Maximum value of peak Total field = 58.8 V/m

Probe Modulation Factor = 1.00

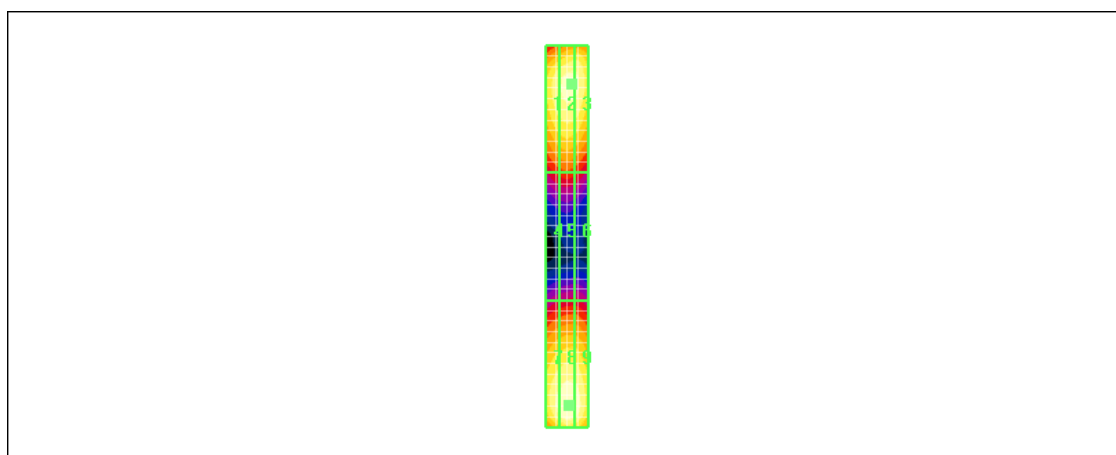
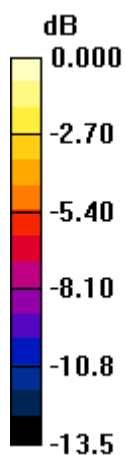
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 37.8 V/m; Power Drift = -0.093 dB


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

Peak E-field in V/m

Grid 1 53.2 M4	Grid 2 55.7 M4	Grid 3 55.4 M4
Grid 4 30.1 M4	Grid 5 30.9 M4	Grid 6 29.9 M4
Grid 7 55.9 M4	Grid 8 58.8 M4	Grid 9 57.7 M4



0 dB = 58.8V/m

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Date/Time: 3/4/2010 12:58:46 PM

Test Laboratory: RIM Testing Services

File Name: [HAC_E_Dipole_835MHz_CW_WCDMA_mod.da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: **Not Specified**

Program Name: HAC RF E Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 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 = 45.5 V/m; Power Drift = 0.013 dB

Maximum value of Total (measured) = 62.9 V/m

E Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid:

dx=5mm, dy=5mm

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Author Data

Dates of Test	Test 1	Test 2	Test 3	Test 4	Test 5	Test 6	Test 7	Test 8	Test 9	Test 10	Test 11	Test 12	Test 13	Test 14	Test 15	Test 16	Test 17	Test 18	Test 19	Test 20	Test 21	Test 22	Test 23	Test 24	Test 25	Test 26	Test 27	Test 28	Test 29	Test 30	Test 31	Test 32	Test 33	Test 34	Test 35	Test 36	Test 37	Test 38	Test 39	Test 40	Test 41	Test 42	Test 43	Test 44	Test 45	Test 46	Test 47	Test 48	Test 49	Test 50	Test 51	Test 52	Test 53	Test 54	Test 55	Test 56	Test 57	Test 58	Test 59	Test 60	Test 61	Test 62	Test 63	Test 64	Test 65	Test 66	Test 67	Test 68	Test 69	Test 70	Test 71	Test 72	Test 73	Test 74	Test 75	Test 76	Test 77	Test 78	Test 79	Test 80	Test 81	Test 82	Test 83	Test 84	Test 85	Test 86	Test 87	Test 88	Test 89	Test 90	Test 91	Test 92	Test 93	Test 94	Test 95	Test 96	Test 97	Test 98	Test 99	Test 100																																																																																																												
1/1/2020	1/2/2020	1/3/2020	1/4/2020	1/5/2020	1/6/2020	1/7/2020	1/8/2020	1/9/2020	1/10/2020	1/11/2020	1/12/2020	1/13/2020	1/14/2020	1/15/2020	1/16/2020	1/17/2020	1/18/2020	1/19/2020	1/20/2020	1/21/2020	1/22/2020	1/23/2020	1/24/2020	1/25/2020	1/26/2020	1/27/2020	1/28/2020	1/29/2020	1/30/2020	1/31/2020	2/1/2020	2/2/2020	2/3/2020	2/4/2020	2/5/2020	2/6/2020	2/7/2020	2/8/2020	2/9/2020	2/10/2020	2/11/2020	2/12/2020	2/13/2020	2/14/2020	2/15/2020	2/16/2020	2/17/2020	2/18/2020	2/19/2020	2/20/2020	2/21/2020	2/22/2020	2/23/2020	2/24/2020	2/25/2020	2/26/2020	2/27/2020	2/28/2020	2/29/2020	3/1/2020	3/2/2020	3/3/2020	3/4/2020	3/5/2020	3/6/2020	3/7/2020	3/8/2020	3/9/2020	3/10/2020	3/11/2020	3/12/2020	3/13/2020	3/14/2020	3/15/2020	3/16/2020	3/17/2020	3/18/2020	3/19/2020	3/20/2020	3/21/2020	3/22/2020	3/23/2020	3/24/2020	3/25/2020	3/26/2020	3/27/2020	3/28/2020	3/29/2020	3/30/2020	3/31/2020	4/1/2020	4/2/2020	4/3/2020	4/4/2020	4/5/2020	4/6/2020	4/7/2020	4/8/2020	4/9/2020	4/10/2020	4/11/2020	4/12/2020	4/13/2020	4/14/2020	4/15/2020	4/16/2020	4/17/2020	4/18/2020	4/19/2020	4/20/2020	4/21/2020	4/22/2020	4/23/2020	4/24/2020	4/25/2020	4/26/2020	4/27/2020	4/28/2020	4/29/2020	4/30/2020	5/1/2020	5/2/2020	5/3/2020	5/4/2020	5/5/2020	5/6/2020	5/7/2020	5/8/2020	5/9/2020	5/10/2020	5/11/2020	5/12/2020	5/13/2020	5/14/2020	5/15/2020	5/16/2020	5/17/2020	5/18/2020	5/19/2020	5/20/2020	5/21/2020	5/22/2020	5/23/2020	5/24/2020	5/25/2020	5/26/2020	5/27/2020	5/28/2020	5/29/2020	5/30/2020	5/31/2020	6/1/2020	6/2/2020	6/3/2020	6/4/2020	6/5/2020	6/6/2020	6/7/2020	6/8/2020	6/9/2020	6/10/2020	6/11/2020	6/12/2020	6/13/2020	6/14/2020	6/15/2020	6/16/2020	6/17/2020	6/18/2020	6/19/2020	6/20/2020	6/21/2020	6/22/2020	6/23/2020	6/24/2020	6/25/2020	6/26/2020	6/27/2020	6/28/2020	6/29/2020	6/30/2020	7/1/2020	7/2/2020	7/3/2020	7/4/2020	7/5/2020	7/6/2020	7/7/2020	7/8/2020	7/9/2020	7/10/2020	7/11/2020	7/12/2020	7/13/2020	7/14/2020	7/15/2020	7/16/2020	7/17/2020	7/18/2020	7/19/2020	7/20/2020	7/21/2020	7/22/2020	7/23/2020	7/24/2020	7/25/2020	7/26/2020	7/27/2020</

Report No

FCC ID

Maximum value of peak Total field = 64.7 V/m

Device Reference Point: 0.000, 0.000, -6.30 mm

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

Grid 1	Grid 2	Grid 3
64.7 M4	64.7 M4	59.7 M4
Grid 4	Grid 5	Grid 6
32.7 M4	32.9 M4	30.6 M4
Grid 7	Grid 8	Grid 9
60.4 M4	60.9 M4	56.1 M4

Grid 2

Grid 3

64.7 M4

64.7 M4

59.7 M4

Grid 4

Grid 5

Grid 6

32.7 M4

32.9 M4

30.6 M4

Grid 7

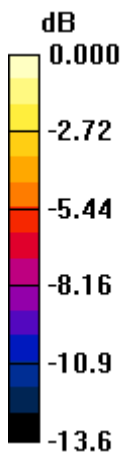
Grid 8

Grid 9

60.4 M4

60.9 M4

56.1 M4



0.000

-2.72

-5.44


-8.16

-10.9

-13.6



0 dB = 64.7V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCV71UW		Page 24 (128)
Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Date/Time: 3/4/2010 1:06:20 PM

Test Laboratory: RIM Testing Services

File Name: [HAC_E_Dipole_835MHz_AM80%_WCDMA.da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: Not Specified

Program Name: HAC RF E Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 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 = 29.0 V/m; Power Drift = 0.032 dB

Maximum value of Total (measured) = 39.7 V/m

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 = 40.7 V/m

Probe Modulation Factor = 1.00

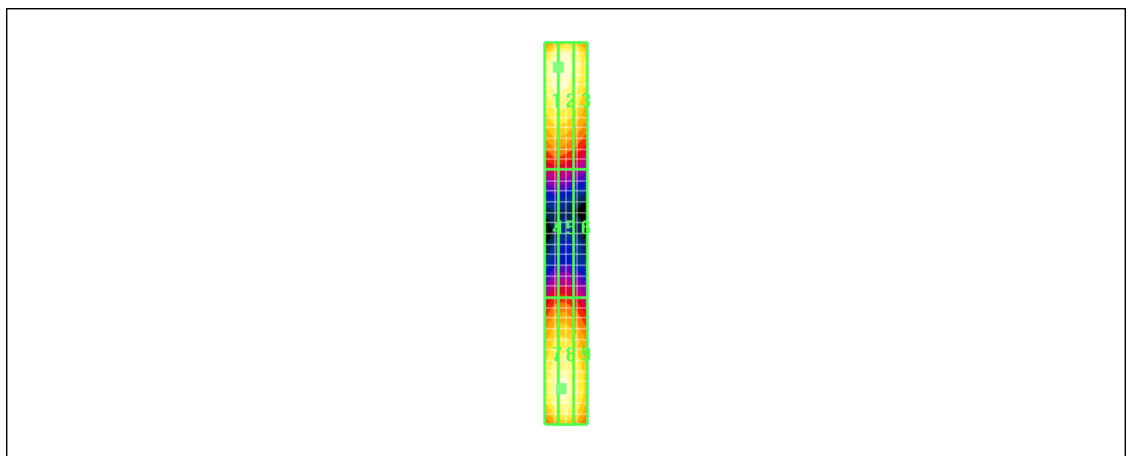
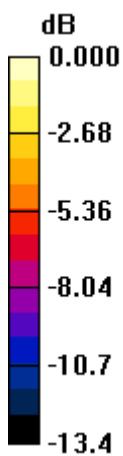
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 29.0 V/m; Power Drift = 0.032 dB


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

Peak E-field in V/m

Grid 1 40.7 M4	Grid 2 40.7 M4	Grid 3 37.8 M4
Grid 4 20.8 M4	Grid 5 20.9 M4	Grid 6 19.6 M4
Grid 7 38.4 M4	Grid 8 38.6 M4	Grid 9 35.5 M4



0 dB = 40.7V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCV71UW		Page 26 (128)
Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Date/Time: 3/4/2010 11:18:41 AM

Test Laboratory: RIM Testing Services

File Name: [HAC_E_Dipole_835MHz_WCDMA_mod.da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: Not Specified

Program Name: HAC RF E Dipole

Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 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 = 38.7 V/m; Power Drift = 0.038 dB

Maximum value of Total (measured) = 61.4 V/m

E Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid:

dx=5mm, dy=5mm

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Maximum value of peak Total field = 61.5 V/m

Probe Modulation Factor = 1.00

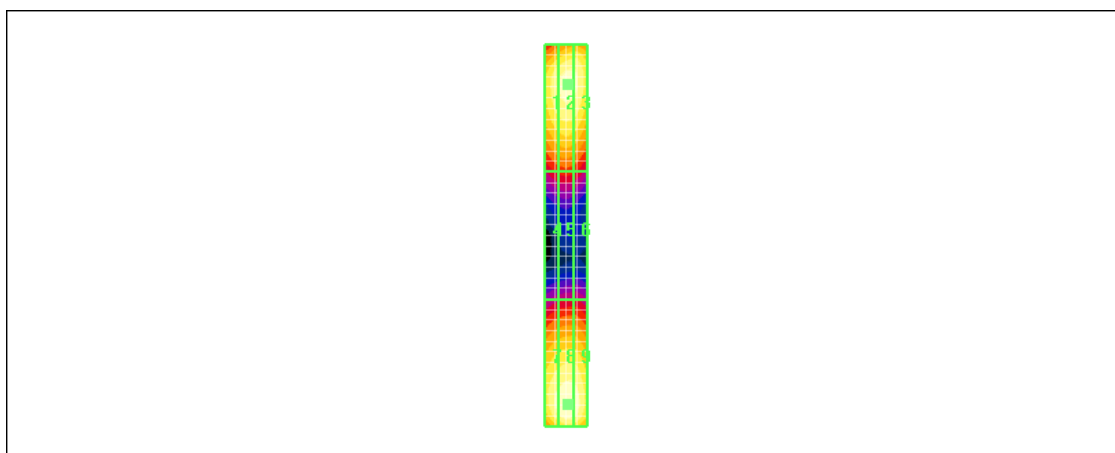
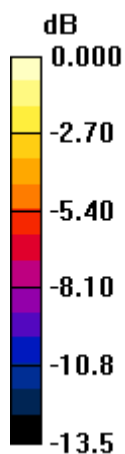
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 38.7 V/m; Power Drift = 0.038 dB


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

Peak E-field in V/m

Grid 1 56.0 M4	Grid 2 58.6 M4	Grid 3 58.0 M4
Grid 4 30.9 M4	Grid 5 31.6 M4	Grid 6 30.7 M4
Grid 7 58.7 M4	Grid 8 61.5 M4	Grid 9 60.3 M4



0 dB = 61.5V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCV71UW		Page 28 (128)
Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Date/Time: 2/26/2010 5:31:16 PM

Test Laboratory: RIM Testing Services

File Name: [HAC_E_Dipole_1880MHz.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: Not Specified

Program Name: HAC RF E Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 = 138.0 V/m; Power Drift = -0.068 dB

Maximum value of Total (measured) = 128.6 V/m

E Scan - measurement distance from the probe sensor center to CD1880

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

dx=5mm, dy=5mm

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Maximum value of peak Total field = 131.5 V/m

Probe Modulation Factor = 1.00

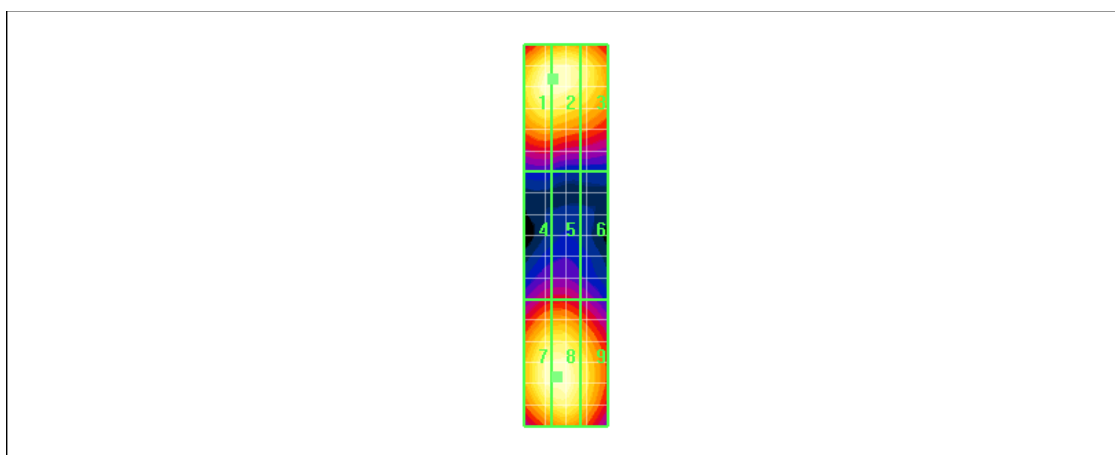
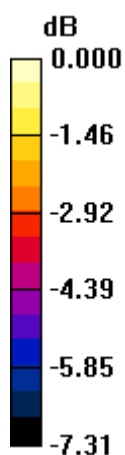
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 138.0 V/m; Power Drift = -0.068 dB


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

Peak E-field in V/m

Grid 1 131.2 M2	Grid 2 131.5 M2	Grid 3 123.6 M2
Grid 4 86.6 M3	Grid 5 87.2 M3	Grid 6 81.3 M3
Grid 7 129.7 M2	Grid 8 130.5 M2	Grid 9 119.6 M2



0 dB = 131.5V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCV71UW		Page 30 (128)
Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Date/Time: 3/4/2010 2:26:01 PM

Test Laboratory: RIM Testing Services

File Name: [HAC_E_Dipole_1880MHz_CW_GSM_mod.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: Not Specified

Program Name: HAC RF E Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 = 105.6 V/m; Power Drift = -0.024 dB

Maximum value of Total (measured) = 99.7 V/m

E Scan - measurement distance from the probe sensor center to CD1880

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

dx=5mm, dy=5mm

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Maximum value of peak Total field = 100.9 V/m

Probe Modulation Factor = 1.00

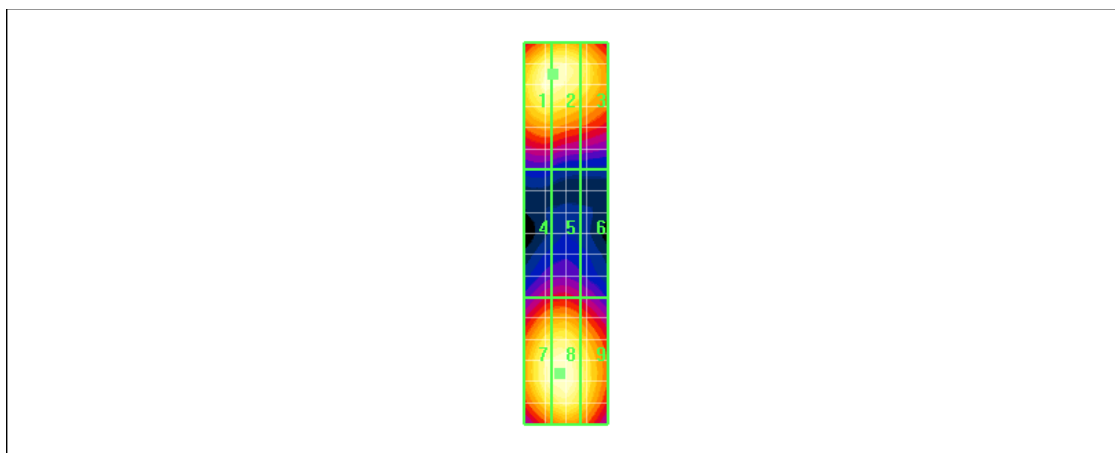
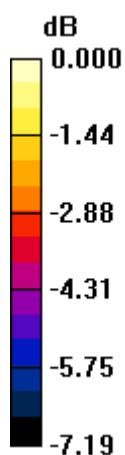
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 105.6 V/m; Power Drift = -0.024 dB


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

Peak E-field in V/m

Grid 1 99.7 M3	Grid 2 99.8 M3	Grid 3 92.6 M3
Grid 4 66.5 M3	Grid 5 67.4 M3	Grid 6 63.5 M3
Grid 7 99.5 M3	Grid 8 100.9 M3	Grid 9 93.6 M3



0 dB = 100.9V/m

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Date/Time: 3/4/2010 2:32:58 PM

Test Laboratory: RIM Testing Services

File Name: [HAC_E_Dipole_1880MHz_AM80%_GSM.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: Not Specified

Program Name: HAC RF E Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 = 66.9 V/m; Power Drift = -0.043 dB

Maximum value of Total (measured) = 63.3 V/m

E Scan - measurement distance from the probe sensor center to CD1880

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

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCV71UW		Page 33 (128)
Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

dx=5mm, dy=5mm

Maximum value of peak Total field = 63.9 V/m

Probe Modulation Factor = 1.00

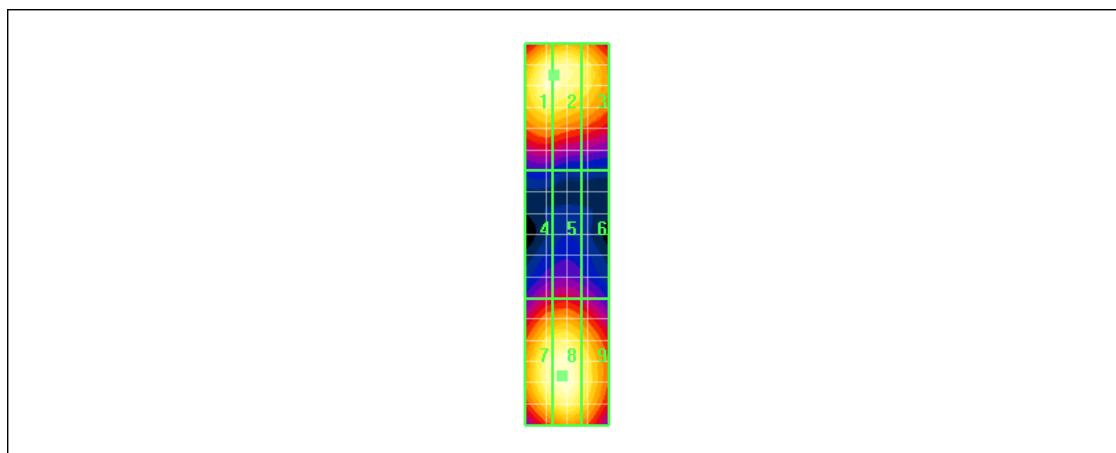
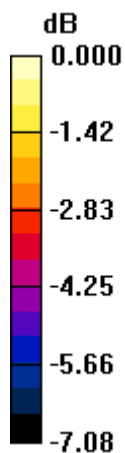
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 66.9 V/m; Power Drift = -0.043 dB


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

Peak E-field in V/m

Grid 1 62.8 M4	Grid 2 62.8 M4	Grid 3 58.7 M4
Grid 4 42.1 M4	Grid 5 42.8 M4	Grid 6 40.4 M4
Grid 7 62.7 M4	Grid 8 63.9 M3	Grid 9 59.5 M4



0 dB = 63.9V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCV71UW		Page 34 (128)
Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Date/Time: 3/4/2010 1:58:33 PM

Test Laboratory: RIM Testing Services

File Name: [HAC_E_Dipole_1880MHz_GSM_mod.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: **Not Specified**

Program Name: HAC RF H3DV6 Dipole

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/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 (5x19x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 19.1 V/m; Power Drift = -0.041 dB

Maximum value of Total (measured) = 36.3 V/m

H Scan - measurement distance from the probe sensor center to CD1880

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

dx=5mm, dy=5mm

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	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCV71UW			35 (128)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	Feb. 26-Mar. 04, 2010	RTS-2474-1003-01	L6ARCV70UW	

Maximum value of peak Total field = 36.8 V/m

Probe Modulation Factor = 1.00

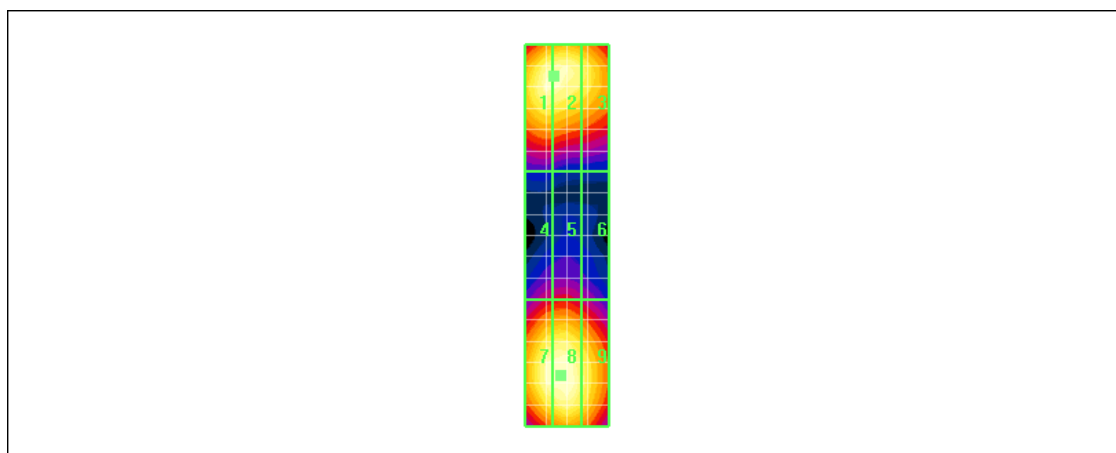
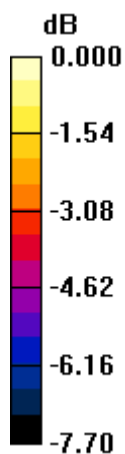
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 19.1 V/m; Power Drift = -0.041 dB


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

Peak E-field in V/m

Grid 1 36.1 M4	Grid 2 36.1 M4	Grid 3 33.5 M4
Grid 4 23.6 M4	Grid 5 24.0 M4	Grid 6 22.4 M4
Grid 7 36.4 M4	Grid 8 36.8 M4	Grid 9 33.8 M4



0 dB = 36.8V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCV71UW		Page 36 (128)
Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Date/Time: 3/4/2010 2:39:01 PM

Test Laboratory: RIM Testing Services

File Name: [HAC_E_Dipole_1880MHz_CW_WCDMA_mod.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: Not Specified

Program Name: HAC RF E Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 = 44.9 V/m; Power Drift = 0.016 dB

Maximum value of Total (measured) = 42.2 V/m

E Scan - measurement distance from the probe sensor center to CD1880

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

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

dx=5mm, dy=5mm

Maximum value of peak Total field = 42.7 V/m

Probe Modulation Factor = 1.00

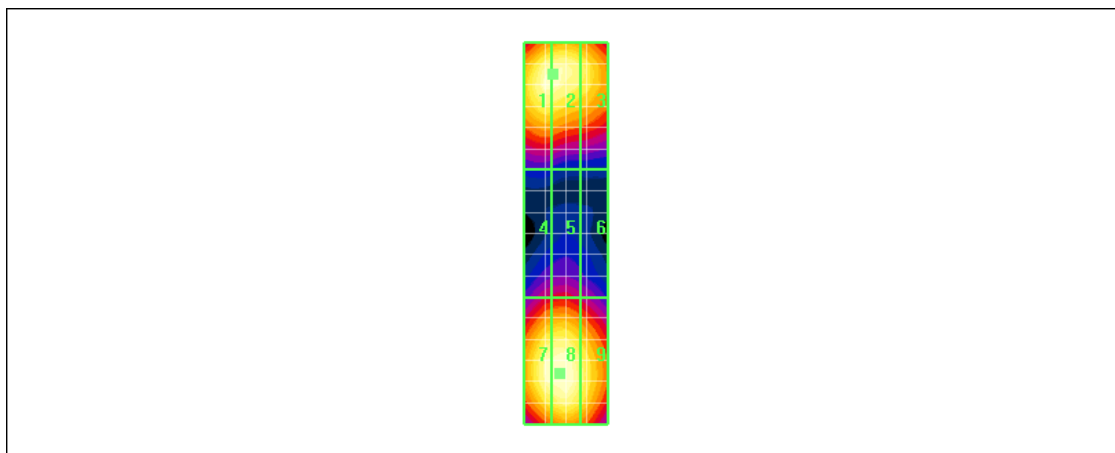
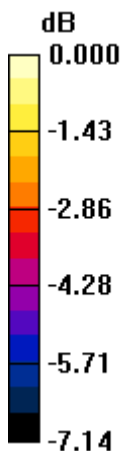
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 44.9 V/m; Power Drift = 0.016 dB


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

Peak E-field in V/m

Grid 1 42.0 M4	Grid 2 42.0 M4	Grid 3 39.2 M4
Grid 4 28.3 M4	Grid 5 28.7 M4	Grid 6 26.9 M4
Grid 7 42.2 M4	Grid 8 42.7 M4	Grid 9 39.6 M4



0 dB = 42.7V/m

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Date/Time: 3/4/2010 2:43:38 PM

Test Laboratory: RIM Testing Services

File Name: [HAC_E_Dipole_1880MHz_AM80%_WCDMA.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: Not Specified

Program Name: HAC RF E Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 = 28.9 V/m; Power Drift = 0.055 dB

Maximum value of Total (measured) = 27.2 V/m

E Scan - measurement distance from the probe sensor center to CD1880

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 27.4 V/m

Probe Modulation Factor = 1.00

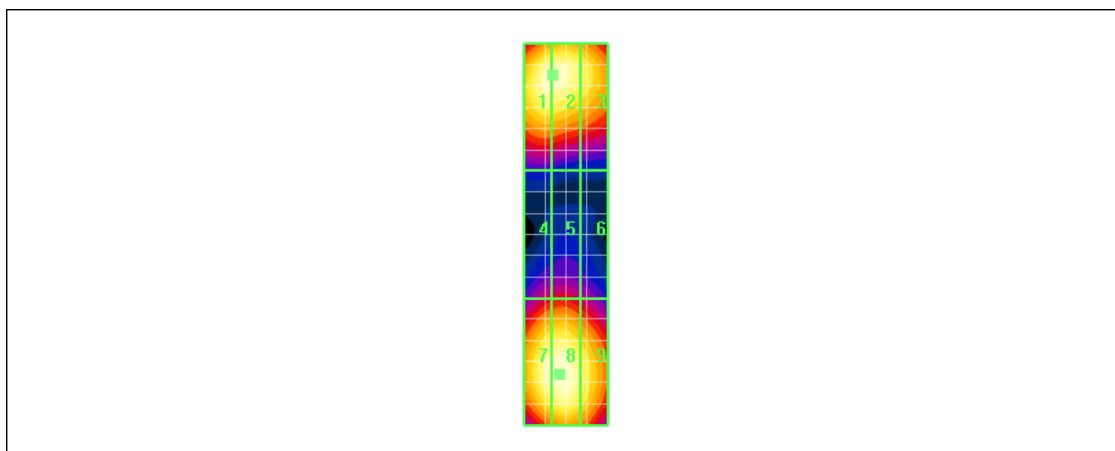
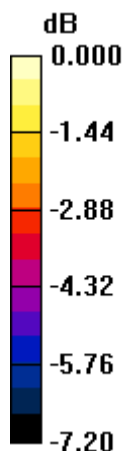
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 28.9 V/m; Power Drift = 0.055 dB


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

Peak E-field in V/m

Grid 1 27.0 M4	Grid 2 27.1 M4	Grid 3 25.2 M4
Grid 4 18.2 M4	Grid 5 18.5 M4	Grid 6 17.3 M4
Grid 7 27.0 M4	Grid 8 27.4 M4	Grid 9 25.4 M4



0 dB = 27.4V/m

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Date/Time: 3/4/2010 2:05:47 PM

Test Laboratory: RIM Testing Services

File Name: [HAC_E_Dipole_1880MHz_WCDMA_mod.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: **Not Specified**

Program Name: HAC RF H3DV6 Dipole

Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 (5x19x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 24.1 V/m; Power Drift = 0.004 dB

Maximum value of Total (measured) = 45.9 V/m

H Scan - measurement distance from the probe sensor center to CD1880

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

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

dx=5mm, dy=5mm

Maximum value of peak Total field = 46.5 V/m

Probe Modulation Factor = 1.00

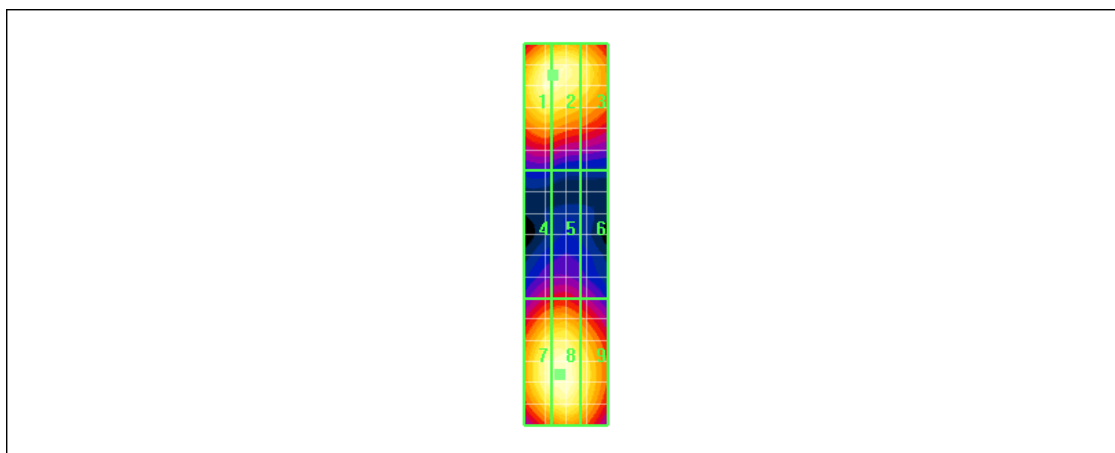
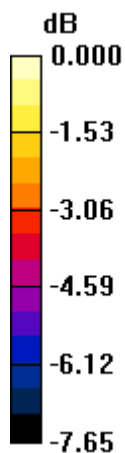
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 24.1 V/m; Power Drift = 0.004 dB


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

Peak E-field in V/m

Grid 1 45.5 M4	Grid 2 45.6 M4	Grid 3 42.4 M4
Grid 4 30.2 M4	Grid 5 30.7 M4	Grid 6 28.6 M4
Grid 7 45.8 M4	Grid 8 46.5 M4	Grid 9 42.7 M4



0 dB = 46.5V/m

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Date/Time: 3/1/2010 9:24:08 AM

Test Laboratory: RIM Testing Services

File Name: [HAC_H_Dipole_835MHz.da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: **Not Specified**

Program Name: HAC RF H3DV6 Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 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 = 0.523 A/m; Power Drift = -0.122 dB

Maximum value of Total (measured) = 0.492 A/m

H Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid:

dx=5mm, dy=5mm

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Maximum value of peak Total field = 0.492 A/m

Probe Modulation Factor = 1.00

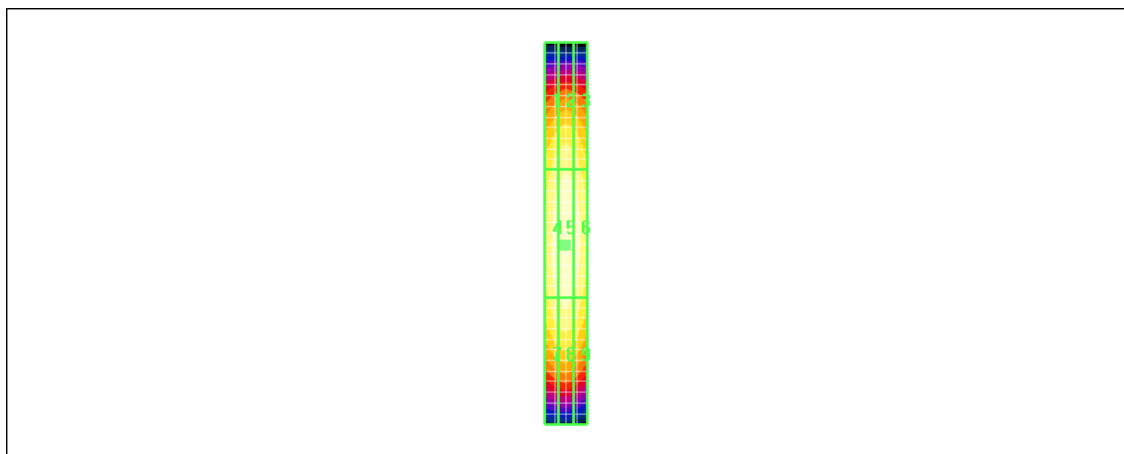
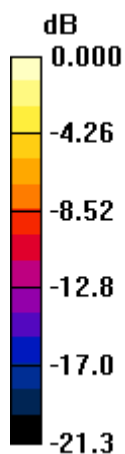
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.523 A/m; Power Drift = -0.122 dB


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

Peak H-field in A/m

Grid 1 0.397 M4	Grid 2 0.416 M4	Grid 3 0.397 M4
Grid 4 0.466 M4	Grid 5 0.492 M4	Grid 6 0.469 M4
Grid 7 0.426 M4	Grid 8 0.444 M4	Grid 9 0.417 M4



0 dB = 0.492A/m

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Date/Time: 3/4/2010 4:23:41 PM

Test Laboratory: RIM Testing Services

File Name: [HAC_H_Dipole_835MHz_CW_GSM_mod.da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: **Not Specified**

Program Name: HAC RF H3DV6 Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 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 = 0.546 A/m; Power Drift = 0.046 dB

Maximum value of Total (measured) = 0.518 A/m

H Scan - measurement distance from the probe sensor center to CD835

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

dx=5mm, dy=5mm

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Maximum value of peak Total field = 0.518 A/m

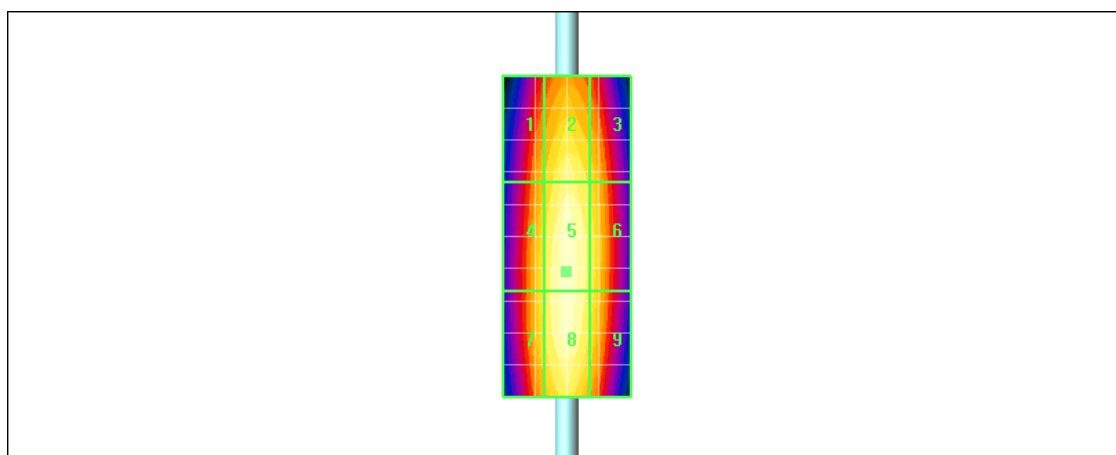
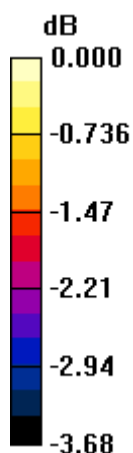
Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 0.546 A/m; Power Drift = 0.046 dB

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

Grid 1 0.476 M4	Grid 2 0.501 M4	Grid 3 0.486 M4
Grid 4 0.494 M4	Grid 5 0.518 M4	Grid 6 0.498 M4
Grid 7 0.494 M4	Grid 8 0.518 M4	Grid 9 0.496 M4



0 dB = 0.518A/m

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Date/Time: 3/4/2010 4:28:17 PM

Test Laboratory: RIM Testing Services

File Name: [HAC_H_Dipole_835MHz_AM80%_mod.da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: Not Specified

Program Name: HAC RF H3DV6 Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 CD835

Dipole = 10mm/Hearing Aid Compatibility Test (5x13x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 0.354 A/m; Power Drift = 0.082 dB

Maximum value of Total (measured) = 0.335 A/m

H Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm/Hearing Aid Compatibility Test (41x121x1): Measurement grid:

dx=5mm, dy=5mm

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Maximum value of peak Total field = 0.335 A/m

Probe Modulation Factor = 1.00

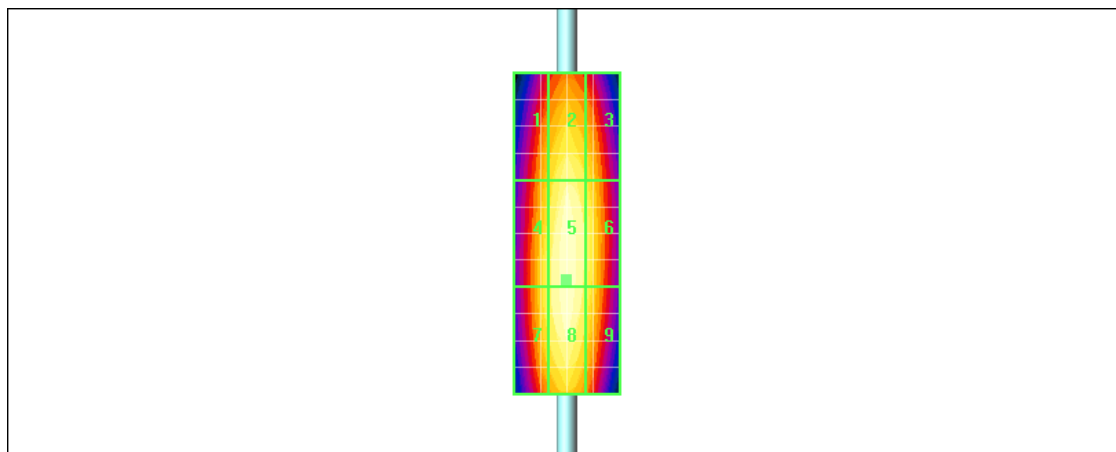
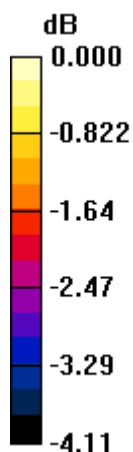
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.354 A/m; Power Drift = 0.082 dB


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

Peak H-field in A/m

Grid 1 0.307 M4	Grid 2 0.324 M4	Grid 3 0.314 M4
Grid 4 0.321 M4	Grid 5 0.335 M4	Grid 6 0.323 M4
Grid 7 0.321 M4	Grid 8 0.335 M4	Grid 9 0.320 M4



0 dB = 0.335A/m

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Date/Time: 3/4/2010 4:00:04 PM

Test Laboratory: RIM Testing Services

File Name: [HAC_H_Dipole_835MHz_GSM_mod.da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: **Not Specified**

Program Name: HAC RF H3DV6 Dipole

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/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 CD835

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 = 0.198 A/m; Power Drift = 0.024 dB

Maximum value of Total (measured) = 0.185 A/m

H Scan - measurement distance from the probe sensor center to CD835

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 0.185 A/m

Probe Modulation Factor = 1.00

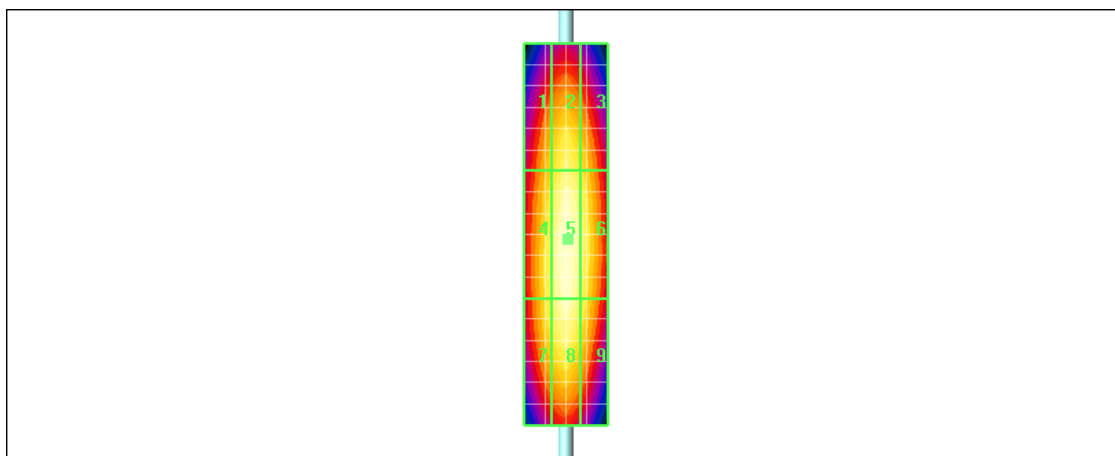
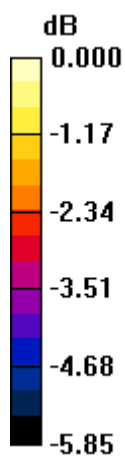
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.198 A/m; Power Drift = 0.024 dB


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

Peak H-field in A/m

Grid 1 0.162 M4	Grid 2 0.172 M4	Grid 3 0.166 M4
Grid 4 0.173 M4	Grid 5 0.185 M4	Grid 6 0.176 M4
Grid 7 0.171 M4	Grid 8 0.182 M4	Grid 9 0.172 M4



0 dB = 0.185A/m

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Date/Time: 3/4/2010 4:32:13 PM

Test Laboratory: RIM Testing Services

File Name: [HAC_H_Dipole_835MHz_CW_WCDMA_mod.da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: **Not Specified**

Program Name: HAC RF H3DV6 Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 CD835

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 = 0.196 A/m; Power Drift = 0.031 dB

Maximum value of Total (measured) = 0.182 A/m

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 = 0.182 A/m

Probe Modulation Factor = 1.00

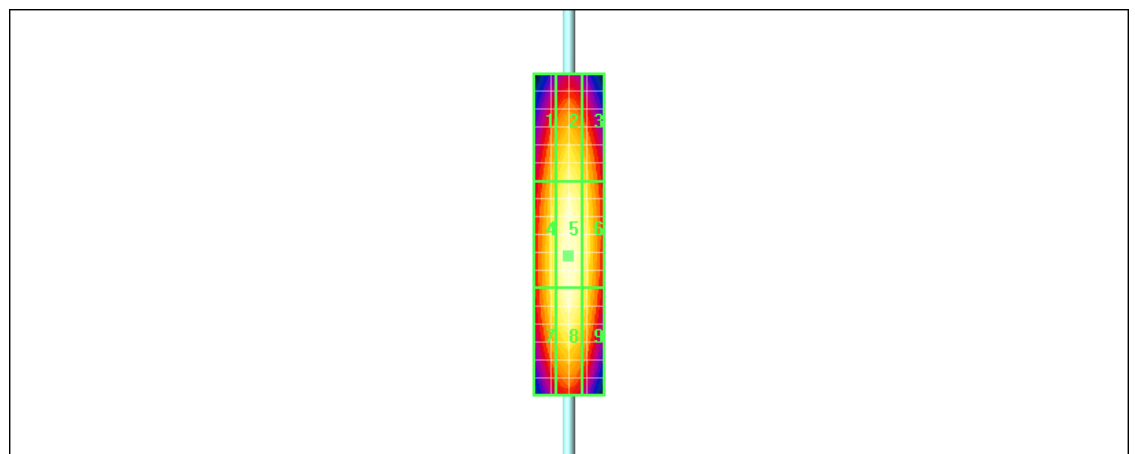
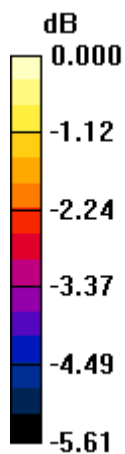
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.196 A/m; Power Drift = 0.031 dB


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

Peak H-field in A/m

Grid 1 0.162 M4	Grid 2 0.171 M4	Grid 3 0.165 M4
Grid 4 0.173 M4	Grid 5 0.182 M4	Grid 6 0.174 M4
Grid 7 0.172 M4	Grid 8 0.180 M4	Grid 9 0.171 M4



0 dB = 0.182A/m

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Date/Time: 3/4/2010 4:42:45 PM

Test Laboratory: RIM Testing Services

File Name: [HAC_H_Dipole_835MHz_AM80%_WCDMA_mod.da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: **Not Specified**

Program Name: HAC RF H3DV6 Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 CD835

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 = 0.120 A/m; Power Drift = 0.140 dB

Maximum value of Total (measured) = 0.115 A/m

H Scan - measurement distance from the probe sensor center to CD835

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

dx=5mm, dy=5mm

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Maximum value of peak Total field = 0.115 A/m

Probe Modulation Factor = 1.00

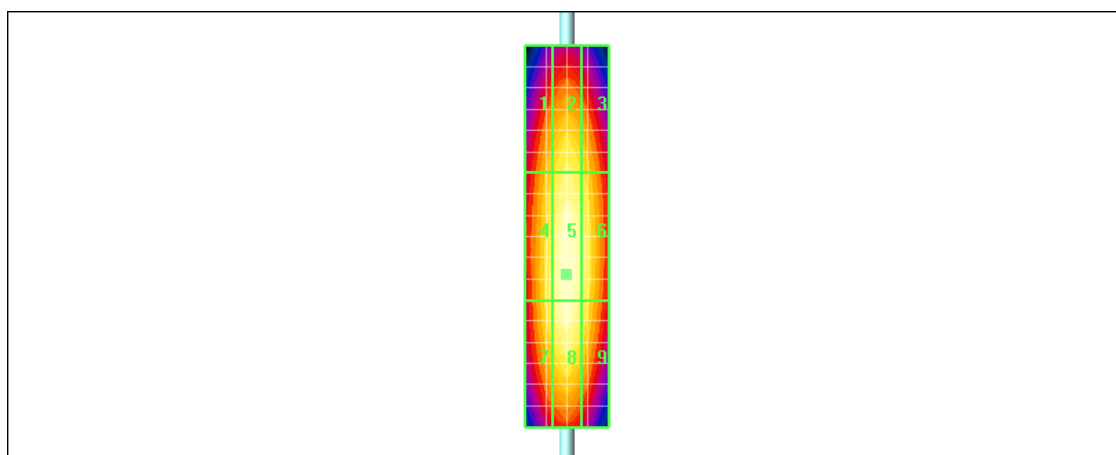
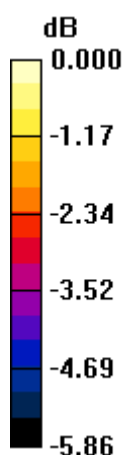
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.120 A/m; Power Drift = 0.140 dB


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

Peak H-field in A/m

Grid 1 0.102 M4	Grid 2 0.107 M4	Grid 3 0.103 M4
Grid 4 0.108 M4	Grid 5 0.115 M4	Grid 6 0.109 M4
Grid 7 0.108 M4	Grid 8 0.114 M4	Grid 9 0.108 M4



0 dB = 0.115A/m

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Date/Time: 3/4/2010 4:06:09 PM

Test Laboratory: RIM Testing Services

File Name: [HAC_H_Dipole_835MHz_WCDMA_mod.da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: Not Specified

Program Name: HAC RF H3DV6 Dipole

Communication System: WCDMA FDD V; Frequency: 835 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 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 = 0.195 A/m; Power Drift = 0.053 dB

Maximum value of Total (measured) = 0.181 A/m

H Scan - measurement distance from the probe sensor center to CD835

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

dx=5mm, dy=5mm

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Maximum value of peak Total field = 0.181 A/m

Probe Modulation Factor = 1.00

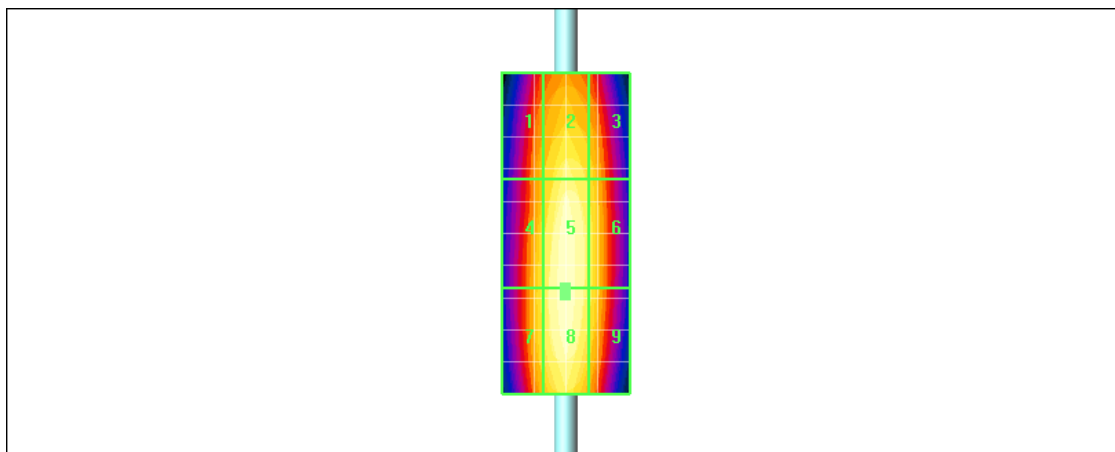
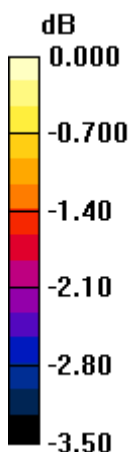
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.195 A/m; Power Drift = 0.053 dB


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

Peak H-field in A/m

Grid 1 0.167 M4	Grid 2 0.174 M4	Grid 3 0.171 M4
Grid 4 0.173 M4	Grid 5 0.181 M4	Grid 6 0.175 M4
Grid 7 0.174 M4	Grid 8 0.181 M4	Grid 9 0.174 M4



0 dB = 0.181A/m

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Date/Time: 3/1/2010 9:32:45 AM

Test Laboratory: RIM Testing Services

File Name: [HAC_H_Dipole_1880MHz.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: Not Specified

Program Name: HAC RF H3DV6 Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 (5x19x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 0.493 A/m; Power Drift = -0.036 dB

Maximum value of Total (measured) = 0.464 A/m

H Scan - measurement distance from the probe sensor center to CD1880

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

dx=5mm, dy=5mm

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Maximum value of peak Total field = 0.464 A/m

Probe Modulation Factor = 1.00

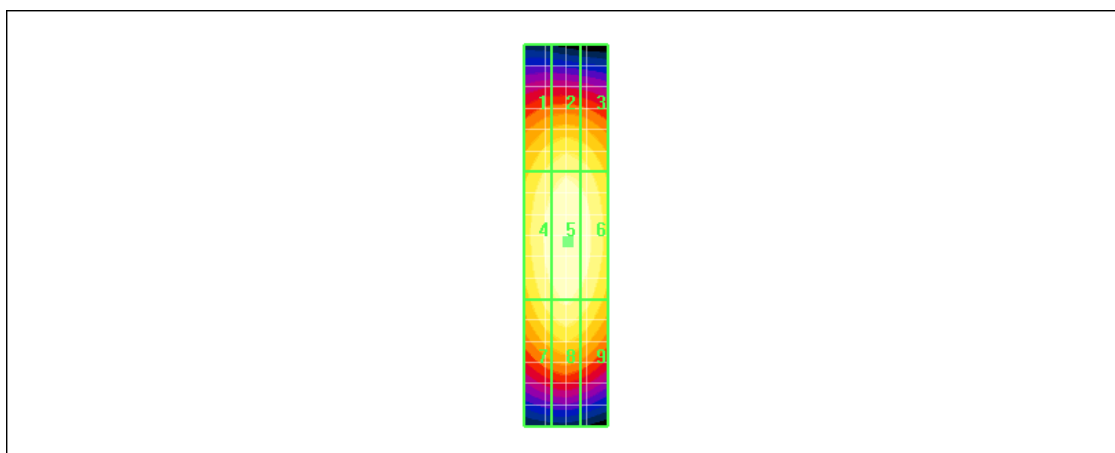
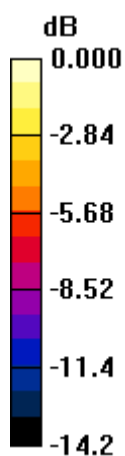
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.493 A/m; Power Drift = -0.036 dB


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

Peak H-field in A/m

Grid 1 0.391 M2	Grid 2 0.410 M2	Grid 3 0.398 M2
Grid 4 0.438 M2	Grid 5 0.464 M2	Grid 6 0.446 M2
Grid 7 0.403 M2	Grid 8 0.427 M2	Grid 9 0.405 M2



0 dB = 0.464A/m

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Date/Time: 3/4/2010 3:36:14 PM

Test Laboratory: RIM Testing Services

File Name: [HAC_H_Dipole_1880MHz_CW_GSM_mod.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: **Not Specified**

Program Name: HAC RF H3DV6 Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 (5x10x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 0.384 A/m; Power Drift = 0.005 dB

Maximum value of Total (measured) = 0.362 A/m

H Scan - measurement distance from the probe sensor center to CD1880

Dipole = 10mm/Hearing Aid Compatibility Test (41x91x1): Measurement grid:

dx=5mm, dy=5mm

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Maximum value of peak Total field = 0.362 A/m

Probe Modulation Factor = 1.00

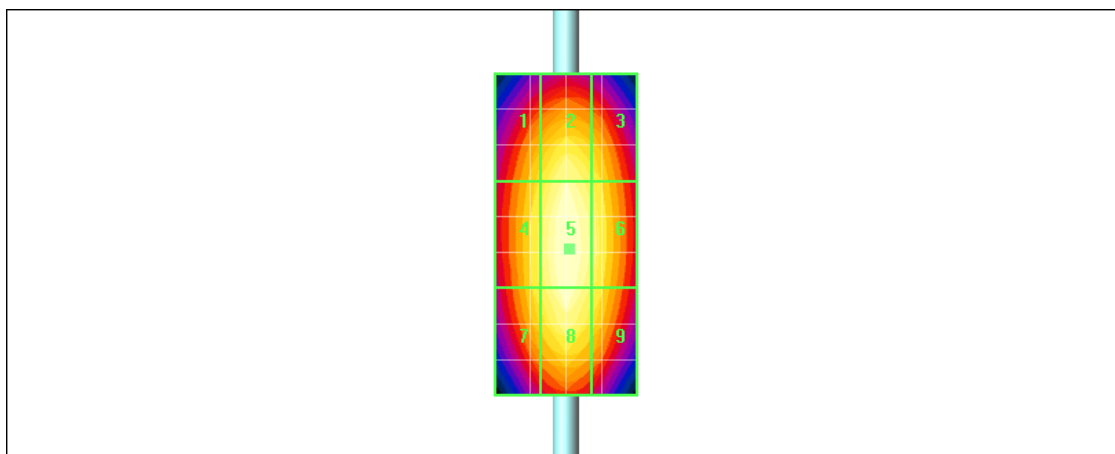
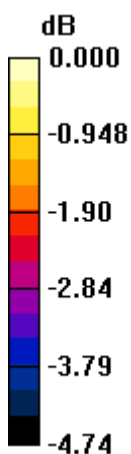
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.384 A/m; Power Drift = 0.005 dB


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

Peak H-field in A/m

Grid 1 0.331 M3	Grid 2 0.350 M2	Grid 3 0.338 M3
Grid 4 0.341 M2	Grid 5 0.362 M2	Grid 6 0.348 M2
Grid 7 0.339 M3	Grid 8 0.357 M2	Grid 9 0.342 M2



0 dB = 0.362A/m

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Date/Time: 3/4/2010 3:40:18 PM

Test Laboratory: RIM Testing Services

File Name: [HAC_H_Dipole_1880MHz_AM80%_GSM_mod.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: Not Specified

Program Name: HAC RF H3DV6 Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 (5x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 0.249 A/m; Power Drift = 0.016 dB

Maximum value of Total (measured) = 0.234 A/m

H Scan - measurement distance from the probe sensor center to CD1880

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

dx=5mm, dy=5mm

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Maximum value of peak Total field = 0.234 A/m

Probe Modulation Factor = 1.00

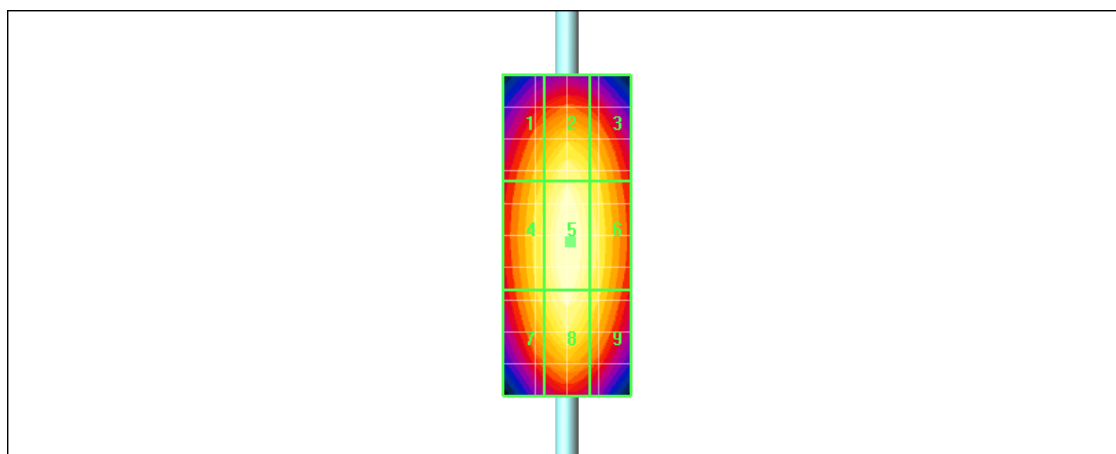
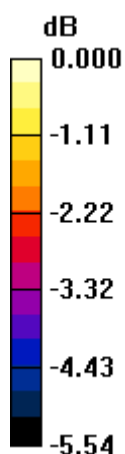
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.249 A/m; Power Drift = 0.016 dB


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

Peak H-field in A/m

Grid 1 0.210 M3	Grid 2 0.224 M3	Grid 3 0.216 M3
Grid 4 0.219 M3	Grid 5 0.234 M3	Grid 6 0.223 M3
Grid 7 0.215 M3	Grid 8 0.229 M3	Grid 9 0.218 M3



0 dB = 0.234A/m

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Date/Time: 3/4/2010 3:28:50 PM

Test Laboratory: RIM Testing Services

File Name: [HAC_H_Dipole_1880MHz_GSM_mod.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: **Not Specified**

Program Name: HAC RF H3DV6 Dipole

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/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 (5x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 0.145 A/m; Power Drift = 0.018 dB

Maximum value of Total (measured) = 0.134 A/m

H Scan - measurement distance from the probe sensor center to CD1880

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

dx=5mm, dy=5mm

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Maximum value of peak Total field = 0.134 A/m

Probe Modulation Factor = 1.00

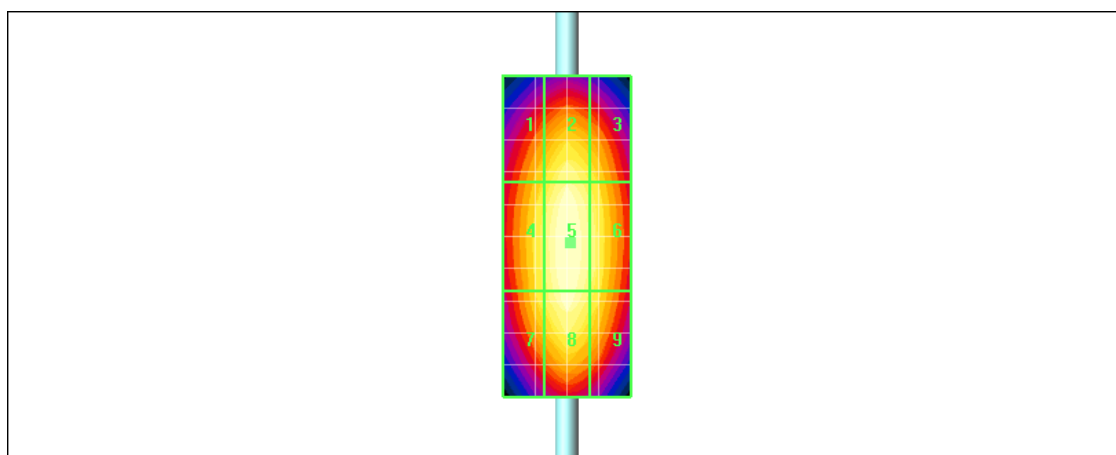
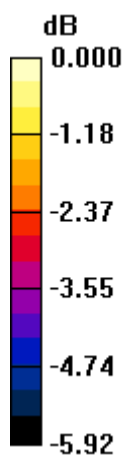
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.145 A/m; Power Drift = 0.018 dB


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

Peak H-field in A/m

Grid 1 0.119 M4	Grid 2 0.128 M4	Grid 3 0.122 M4
Grid 4 0.126 M4	Grid 5 0.134 M4	Grid 6 0.128 M4
Grid 7 0.124 M4	Grid 8 0.132 M4	Grid 9 0.125 M4



0 dB = 0.134A/m

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Date/Time: 3/4/2010 3:43:53 PM

Test Laboratory: RIM Testing Services

File Name: [HAC_H_Dipole_1880MHz_CW_WCDMA_mod.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: Not Specified

Program Name: HAC RF H3DV6 Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 (5x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 0.164 A/m; Power Drift = 0.026 dB

Maximum value of Total (measured) = 0.153 A/m

H Scan - measurement distance from the probe sensor center to CD1880

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

dx=5mm, dy=5mm

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Maximum value of peak Total field = 0.154 A/m

Probe Modulation Factor = 1.00

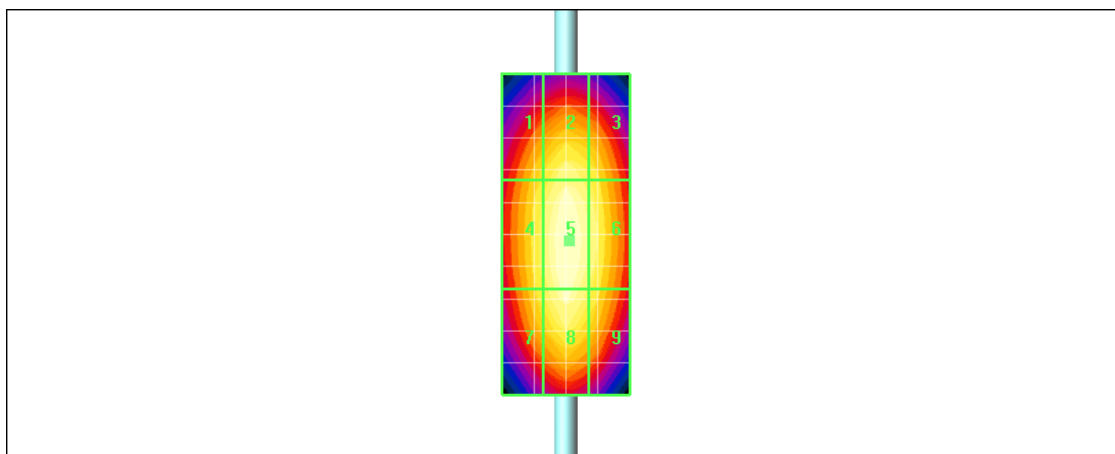
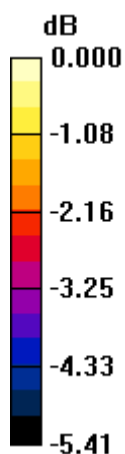
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.164 A/m; Power Drift = 0.026 dB


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

Peak H-field in A/m

Grid 1 0.139 M4	Grid 2 0.147 M4	Grid 3 0.143 M4
Grid 4 0.145 M4	Grid 5 0.154 M4	Grid 6 0.148 M4
Grid 7 0.142 M4	Grid 8 0.150 M4	Grid 9 0.144 M4



0 dB = 0.154A/m

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Date/Time: 3/4/2010 3:47:16 PM

Test Laboratory: RIM Testing Services

File Name: [HAC_H_Dipole_1880MHz_AM80%_WCDMA_mod.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: **Not Specified**

Program Name: HAC RF H3DV6 Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 (5x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.104 A/m; Power Drift = 0.005 dB

Maximum value of Total (measured) = 0.098 A/m

H Scan - measurement distance from the probe sensor center to CD1880

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 0.098 A/m

Probe Modulation Factor = 1.00

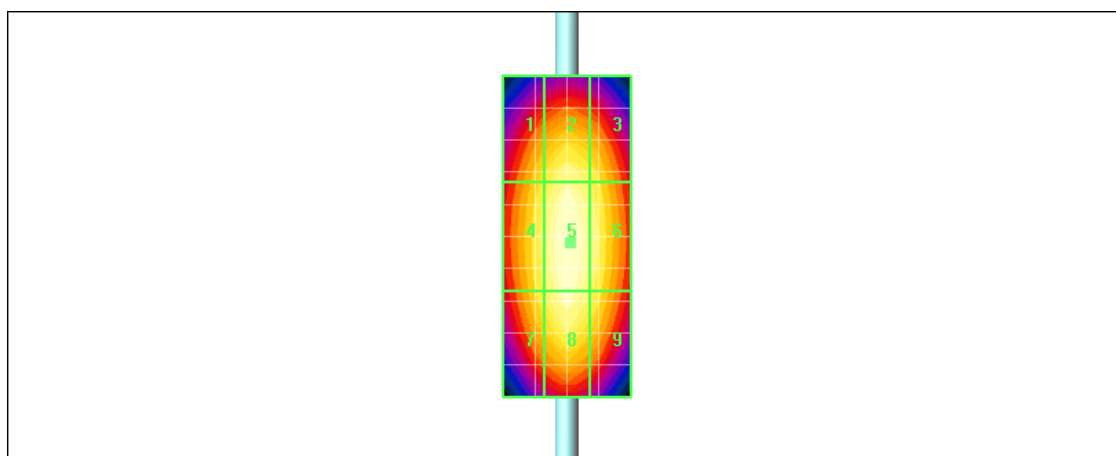
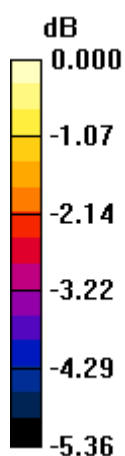
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.104 A/m; Power Drift = 0.005 dB


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

Peak H-field in A/m

Grid 1 0.089 M4	Grid 2 0.094 M4	Grid 3 0.091 M4
Grid 4 0.093 M4	Grid 5 0.098 M4	Grid 6 0.094 M4
Grid 7 0.091 M4	Grid 8 0.096 M4	Grid 9 0.092 M4



0 dB = 0.098A/m

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Date/Time: 3/4/2010 3:23:31 PM

Test Laboratory: RIM Testing Services

File Name: [HAC_H_Dipole_1880MHz_WCDMA_mod.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: **Not Specified**

Program Name: HAC RF H3DV6 Dipole

Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 (5x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 0.168 A/m; Power Drift = -0.004 dB

Maximum value of Total (measured) = 0.160 A/m

H Scan - measurement distance from the probe sensor center to CD1880

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

dx=5mm, dy=5mm

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Maximum value of peak Total field = 0.160 A/m

Probe Modulation Factor = 1.00

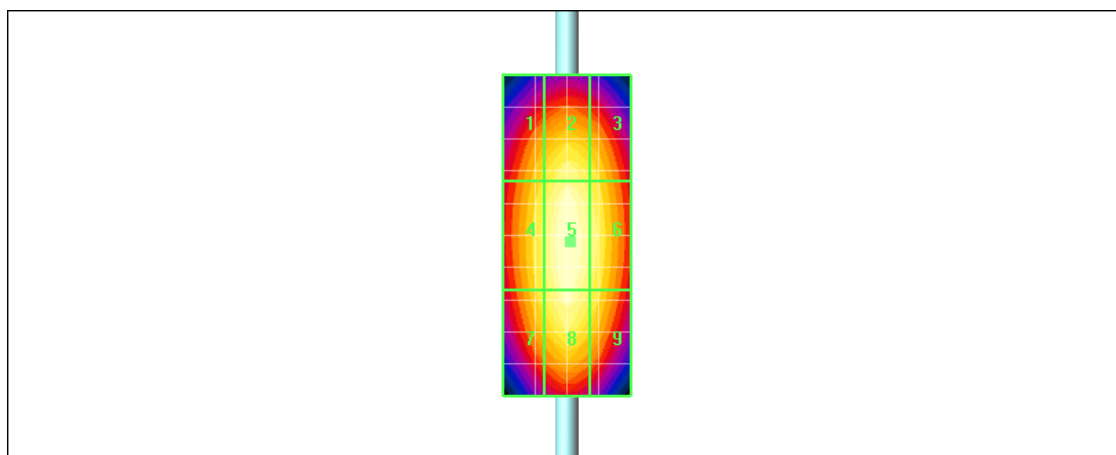
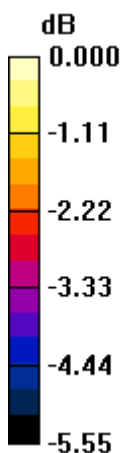
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.168 A/m; Power Drift = -0.004 dB


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

Peak H-field in A/m

Grid 1 0.144 M4	Grid 2 0.153 M4	Grid 3 0.147 M4
Grid 4 0.150 M4	Grid 5 0.160 M4	Grid 6 0.153 M4
Grid 7 0.147 M4	Grid 8 0.156 M4	Grid 9 0.149 M4

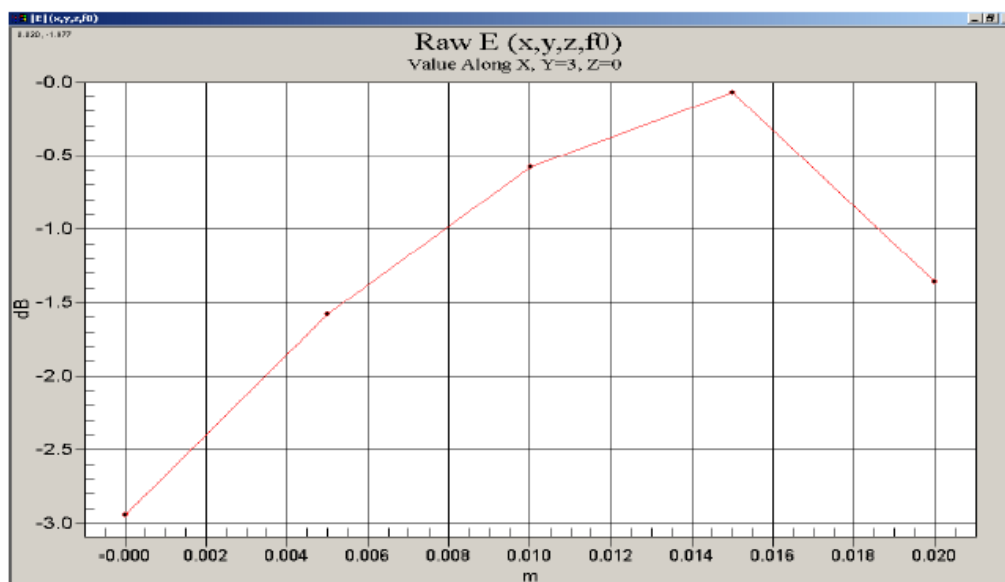


0 dB = 0.160A/m

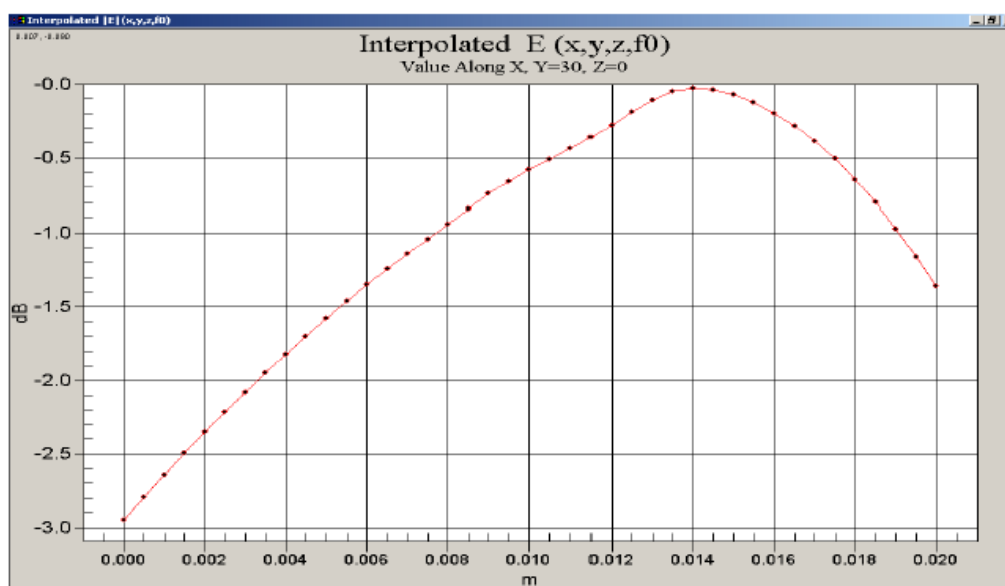
	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCV71UW		Page 70 (128)
	Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01
		FCC ID L6ARCV70UW	

Justification of Step Size and Interpolation


This section demonstrates that a 5mm step size with interpolation provides sufficient resolution for RF emissions measurements. The DASY 4 uses interpolation algorithms to derive 9 interpolated points between every measured point.

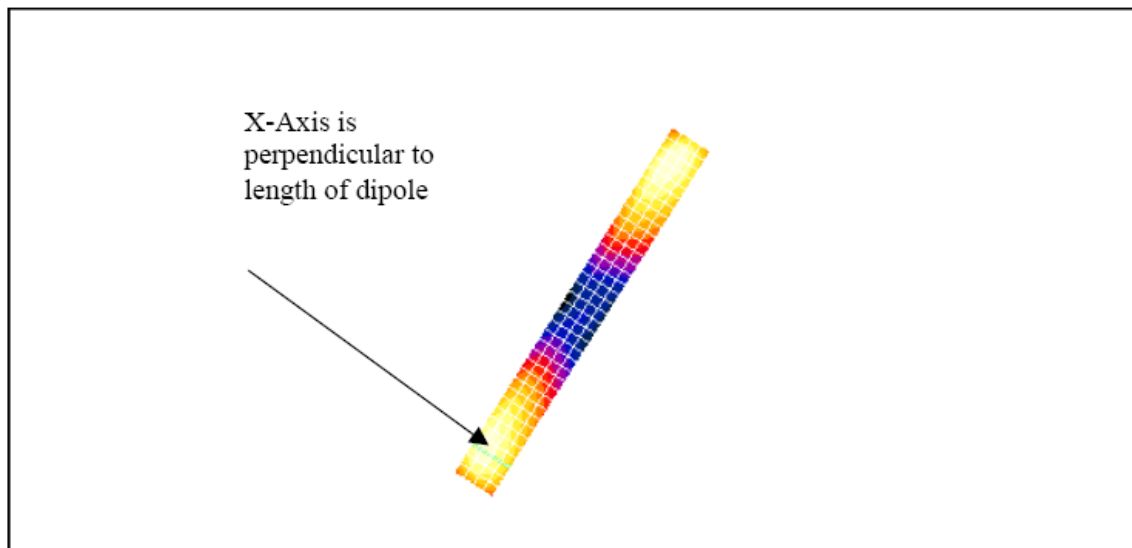


The figure above shows the raw measured field strength perpendicular to the length of the validation dipole. The TCB guidance slides require the 3dB width to be much larger than the step size. The width between -3dB points is > 21mm, at least 4 times the step size.



This figure shows the interpolated field strength perpendicular to the dipole. The interpolated points follow the raw points with no inconsistencies.


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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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Lab: RIM Testing Services (RTS)

Dipole Validation 1880 MHz_E-Field 07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³
Phantom section: H Device Section

DASY4 Configuration:

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

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

Measurement grid: dx=5mm, dy=5mm
Maximum value of Total (measured) = 134.8 V/m

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

Measurement grid: dx=5mm, dy=5mm
Maximum value of Total field (slot averaged) = 131.0 V/m


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

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

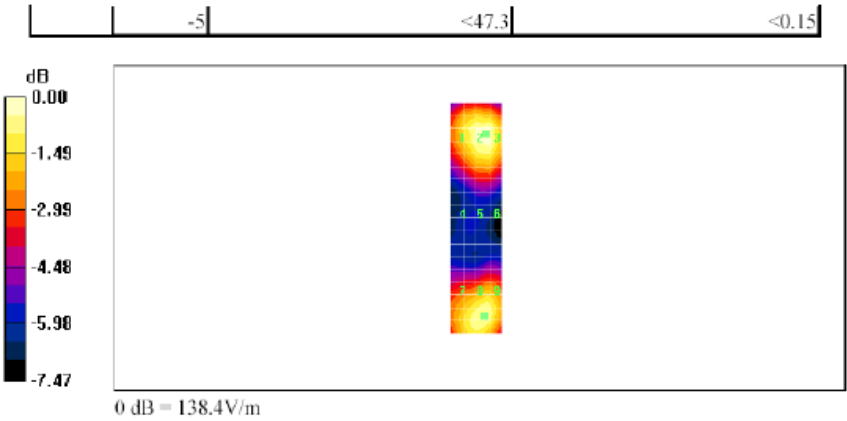
Grid 1	Grid 2	Grid 3	Grid 1	Grid 2	Grid 3
123.2	138.1	138.4	123.2	138.1	138.4
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
80.9	92.3	92.2	80.9	92.3	92.2
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
119.8	131.0	130.7	119.8	131.0	130.7

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


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

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Lab: RIM Testing Services (RTS)

Dipole Validation 1880 MHz_2mm step_E-Field 07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

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

Phantom section: H Device Section

DASY4 Configuration:

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

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

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

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

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

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

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


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

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

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

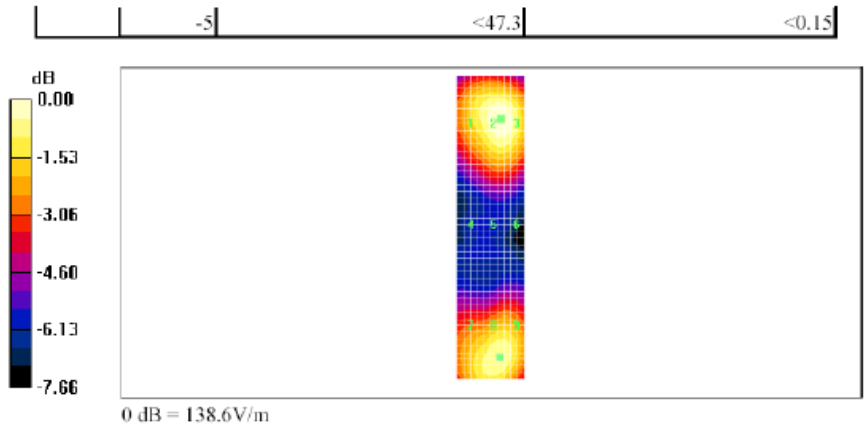
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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


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

Lab: RIM Testing Services (RTS)

HAC_H_Dipole_CW 1880_5 mm step_07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

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

Phantom section: H Dipole Section

DASY4 Configuration:

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

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

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

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

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

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

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


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

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

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

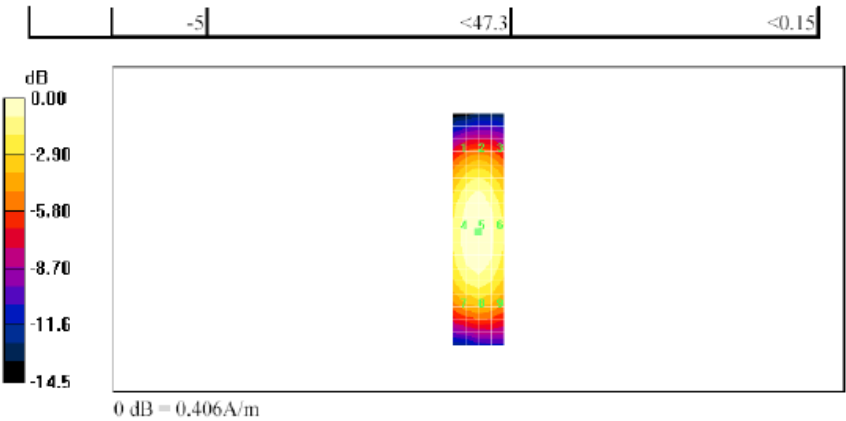
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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Lab: RIM Testing Services (RTS)

HAC_H_Dipole_CW 1880_2 mm step_07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

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

Phantom section: H Dipole Section

DASY4 Configuration:

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

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

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

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

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

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

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


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

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

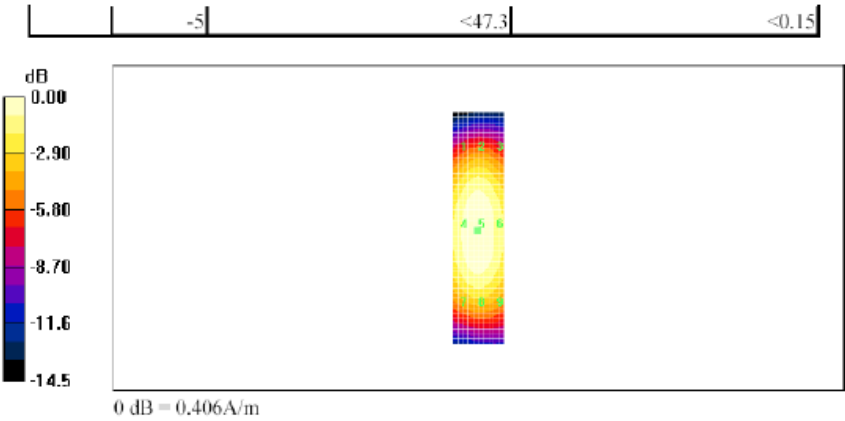
Grid 1	Grid 2	Grid 3	Grid 1	Grid 2	Grid 3
0.347	0.361	0.348	0.347	0.361	0.348
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
0.394	0.406	0.391	0.394	0.406	0.391
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
0.367	0.380	0.365	0.367	0.380	0.365

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


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file:///C:/Program%20Files/DASY4/Print_Templates/HAC_H_Dipole_CW%201880_2%... 14/07/2005

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Date/Time: 2/26/2010 3:08:29 PM

Test Laboratory: RIM Testing Services

File Name: [HAC_E_GSM_850_low_chan.da4](#)

DUT: BlackBerry Smartphone;

Program Name: HAC RF ER3D Device

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/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 = 90.3 V/m; Power Drift = -0.061 dB

Maximum value of Total (measured) = 69.0 V/m

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 = 200.3 V/m

Probe Modulation Factor = 2.90

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Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 90.3 V/m; Power Drift = -0.061 dB

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

Peak E-field in V/m

Grid 1 190.1 M3	Grid 2 198.0 M3	Grid 3 189.2 M3
Grid 4 192.4 M3	Grid 5 200.3 M3	Grid 6 191.6 M3
Grid 7 186.2 M3	Grid 8 195.1 M3	Grid 9 184.2 M3

Author Data

Daoud Attayi

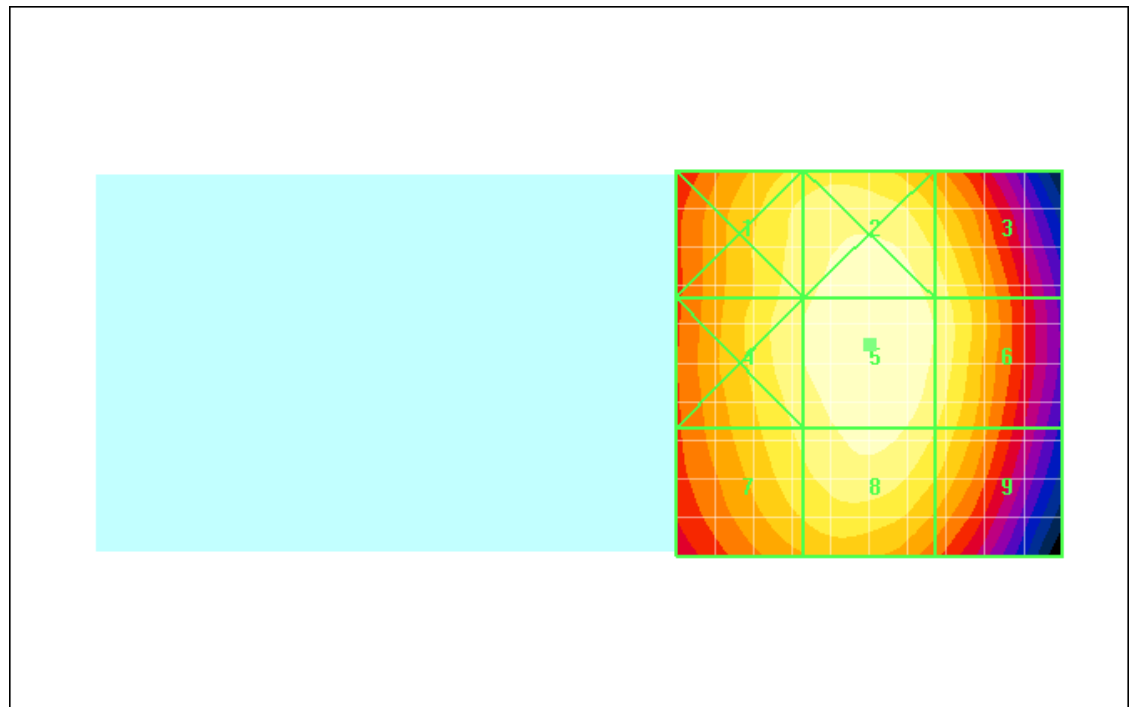
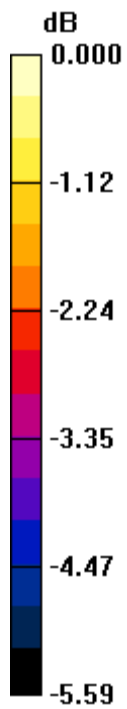
Dates of Test

Feb. 26-Mar. 04, 2010


Report No

RTS-2474-1003-01

FCC ID

L6ARCV70UW


0 dB = 200.3V/m

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Date/Time: 2/26/2010 3:16:20 PM

Test Laboratory: RIM Testing Services

File Name: [HAC_E_GSM_850_mid chan.da4](#)

DUT: BlackBerry Smartphone;

Program Name: HAC RF ER3D Device

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/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 = 101.0 V/m; Power Drift = 0.110 dB

Maximum value of Total (measured) = 78.1 V/m

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 = 227.4 V/m

Probe Modulation Factor = 2.90

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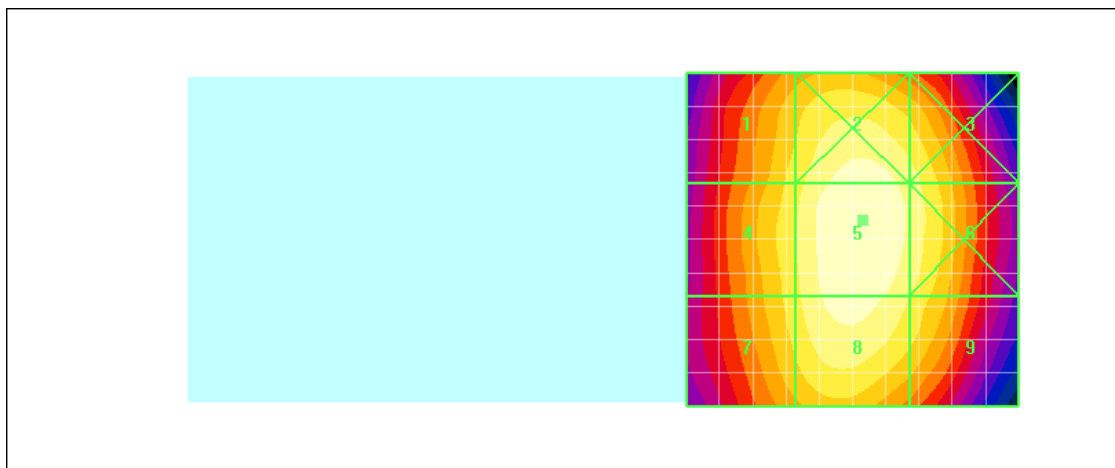
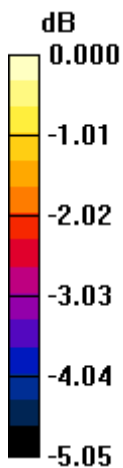
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 101.0 V/m; Power Drift = 0.110 dB


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

Peak E-field in V/m

Grid 1 207.3 M3	Grid 2 223.4 M3	Grid 3 214.9 M3
Grid 4 210.8 M3	Grid 5 227.4 M3	Grid 6 217.6 M3
Grid 7 208.3 M3	Grid 8 222.6 M3	Grid 9 210.9 M3



0 dB = 227.4V/m

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Date/Time: 2/26/2010 3:21:57 PM

Test Laboratory: RIM Testing Services

File Name: [HAC_E_GSM_850_high chan.da4](#)

DUT: BlackBerry Smartphone;

Program Name: HAC RF ER3D Device

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/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 = 101.8 V/m; Power Drift = 0.170 dB

Maximum value of Total (measured) = 79.7 V/m

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 = 233.6 V/m

Probe Modulation Factor = 2.90

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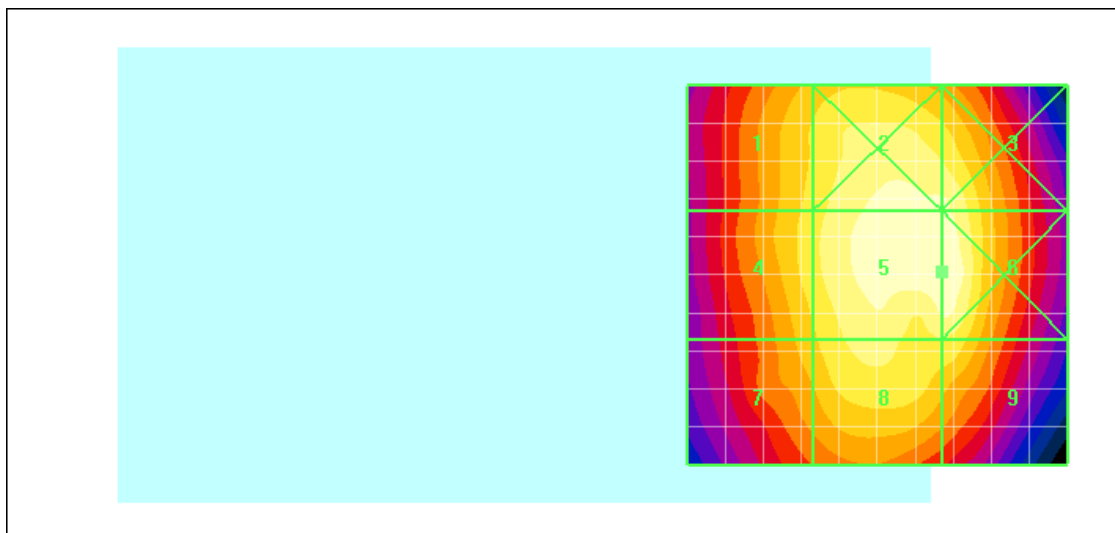
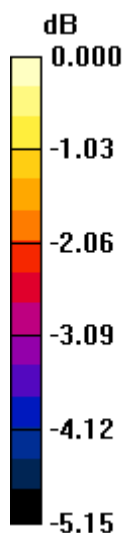
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 101.8 V/m; Power Drift = 0.170 dB


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

Peak E-field in V/m

Grid 1 211.6 M3	Grid 2 227.5 M3	Grid 3 226.8 M3
Grid 4 213.5 M3	Grid 5 233.6 M3	Grid 6 233.6 M3
Grid 7 206.0 M3	Grid 8 220.1 M3	Grid 9 215.9 M3



0 dB = 233.6V/m

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Date/Time: 2/26/2010 3:53:30 PM

Test Laboratory: RIM Testing Services

File Name: [HAC_E_UMTS_band_V_850_low_chan.da4](#)

DUT: BlackBerry Smartphone;

Program Name: HAC RF ER3D Device

Communication System: WCDMA FDD V; Frequency: 826.4 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 = 109.5 V/m; Power Drift = -0.011 dB

Maximum value of Total (measured) = 83.9 V/m

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 = 88.4 V/m

Probe Modulation Factor = 1.05

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

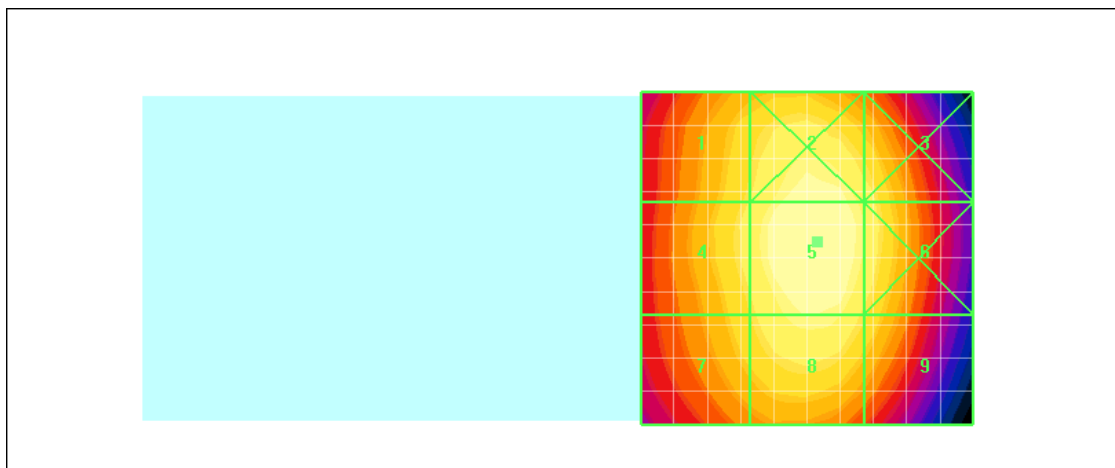
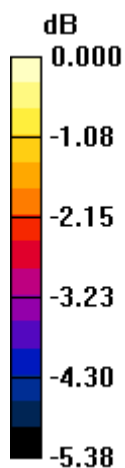
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 109.5 V/m; Power Drift = -0.011 dB


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

Peak E-field in V/m

Grid 1 82.4 M4	Grid 2 87.1 M4	Grid 3 84.1 M4
Grid 4 83.6 M4	Grid 5 88.4 M4	Grid 6 85.0 M4
Grid 7 81.5 M4	Grid 8 85.8 M4	Grid 9 82.0 M4



0 dB = 88.4V/m

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Date/Time: 2/26/2010 3:59:30 PM

Test Laboratory: RIM Testing Services

File Name: [HAC_E_UMTS_band_V_850_mid_chan.da4](#)

DUT: BlackBerry Smartphone;

Program Name: HAC RF ER3D Device

Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 = 120.8 V/m; Power Drift = 0.021 dB

Maximum value of Total (measured) = 93.3 V/m

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 = 98.3 V/m

Probe Modulation Factor = 1.05

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

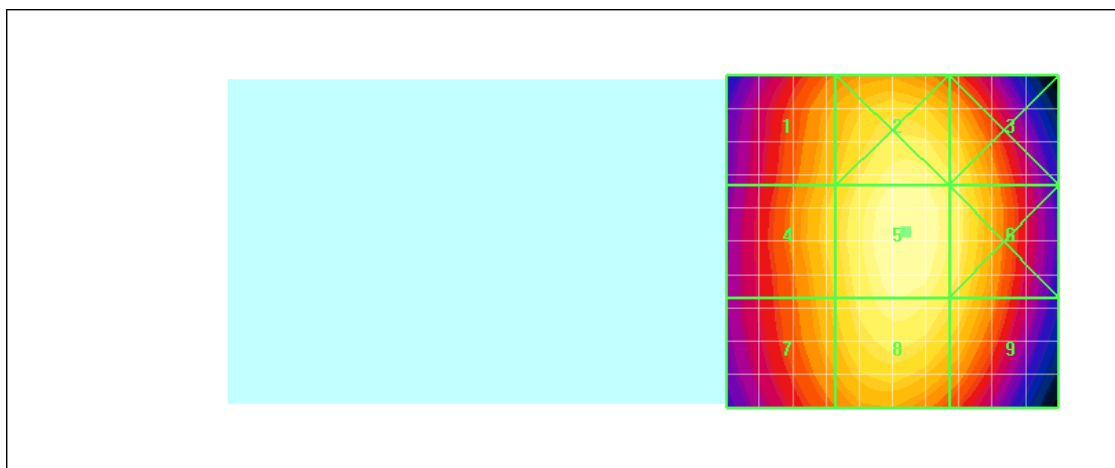
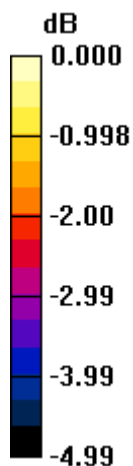
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 120.8 V/m; Power Drift = 0.021 dB


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

Peak E-field in V/m

Grid 1 88.8 M4	Grid 2 96.4 M4	Grid 3 93.7 M4
Grid 4 90.6 M4	Grid 5 98.3 M4	Grid 6 95.0 M4
Grid 7 89.0 M4	Grid 8 96.0 M4	Grid 9 92.4 M4



0 dB = 98.3V/m

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Date/Time: 2/26/2010 4:04:31 PM

Test Laboratory: RIM Testing Services

File Name: [HAC_E_UMTS_band_V_850_high_chan.da4](#)

DUT: BlackBerry Smartphone;

Program Name: HAC RF ER3D Device

Communication System: WCDMA FDD V; Frequency: 846.6 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 = 120.7 V/m; Power Drift = -0.063 dB

Maximum value of Total (measured) = 92.2 V/m

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 = 97.1 V/m

Probe Modulation Factor = 1.05

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	Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

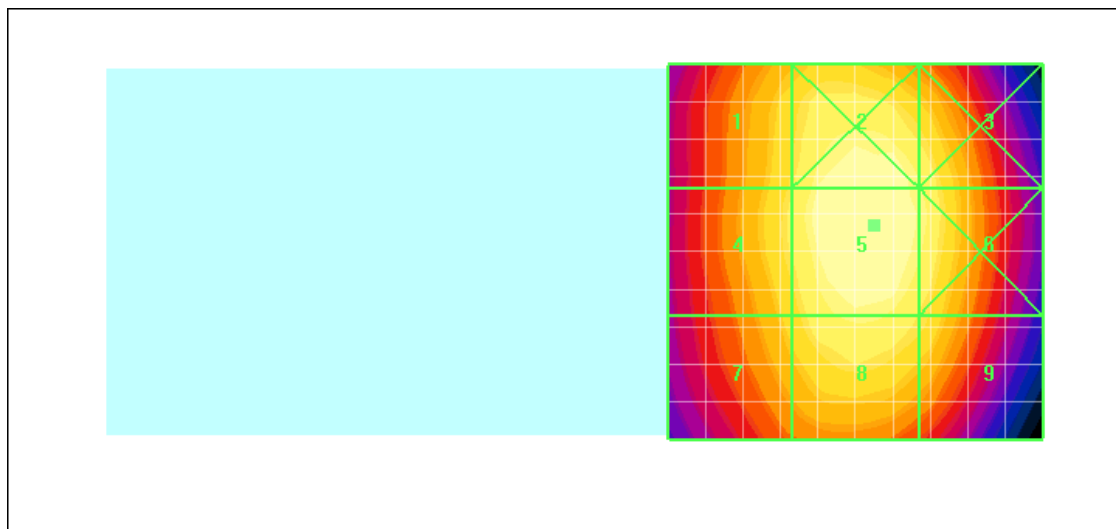
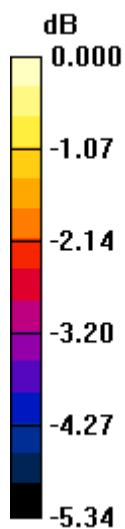
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 120.7 V/m; Power Drift = -0.063 dB


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

Peak E-field in V/m

Grid 1 90.2 M4	Grid 2 96.5 M4	Grid 3 93.5 M4
Grid 4 91.1 M4	Grid 5 97.1 M4	Grid 6 94.3 M4
Grid 7 88.2 M4	Grid 8 93.7 M4	Grid 9 90.8 M4



0 dB = 97.1V/m

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Date/Time: 2/26/2010 3:32:11 PM

Test Laboratory: RIM Testing Services

File Name: [HAC_E_GSM_1900_low_chan.da4](#)

DUT: BlackBerry Smartphone;

Program Name: HAC RF ER3D Device

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/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 = 17.2 V/m; Power Drift = -0.028 dB

Maximum value of Total (measured) = 23.4 V/m

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 = 51.4 V/m

Probe Modulation Factor = 2.74

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Daoud Attayi	Feb. 26-Mar. 04, 2010	RTS-2474-1003-01	L6ARCV70UW	

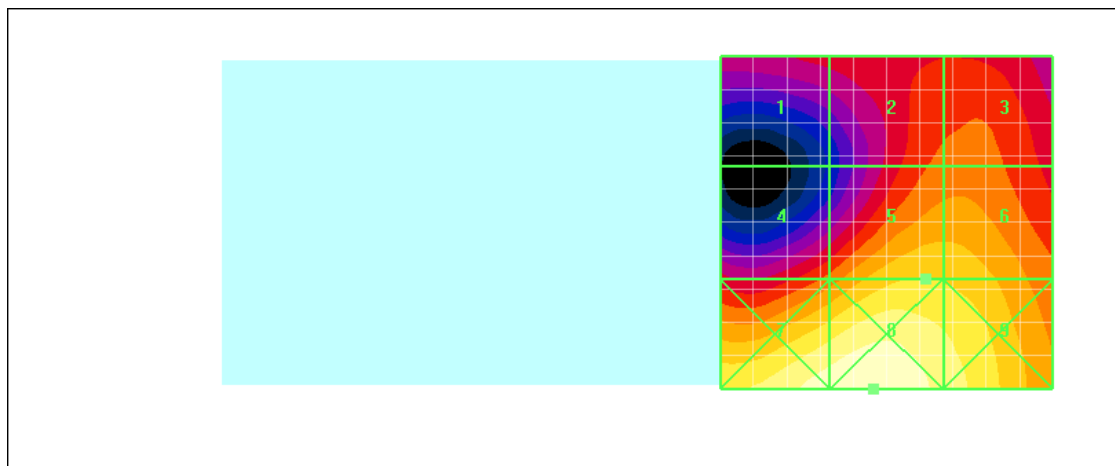
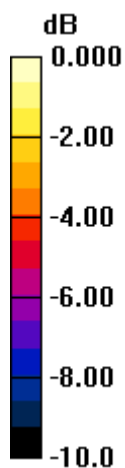
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 17.2 V/m; Power Drift = -0.028 dB


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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
36.0 M4	41.8 M4	42.4 M4
Grid 4	Grid 5	Grid 6
42.1 M4	51.4 M3	50.9 M3
Grid 7	Grid 8	Grid 9
62.7 M3	64.4 M3	58.1 M3



0 dB = 64.4V/m

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Date/Time: 2/26/2010 3:37:36 PM

Test Laboratory: RIM Testing Services

File Name: [HAC_E_GSM_1900_mid_chan.da4](#)

DUT: BlackBerry Smartphone; Type: Clamshell; Serial: Not Specified

Program Name: HAC RF ER3D Device

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/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 = 16.8 V/m; Power Drift = -0.054 dB

Maximum value of Total (measured) = 26.0 V/m

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 = 54.6 V/m

Probe Modulation Factor = 2.74

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Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	Feb. 26-Mar. 04, 2010	RTS-2474-1003-01	L6ARCV70UW	

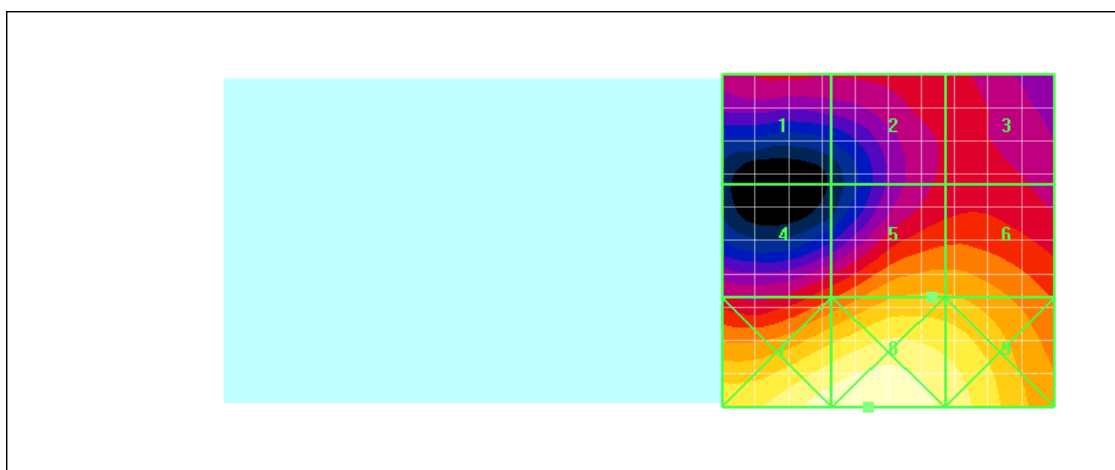
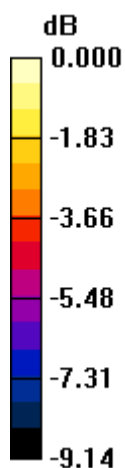
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 16.8 V/m; Power Drift = -0.054 dB


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

Peak E-field in V/m

Grid 1 41.4 M4	Grid 2 41.7 M4	Grid 3 42.3 M4
Grid 4 46.5 M4	Grid 5 54.6 M3	Grid 6 54.5 M3
Grid 7 69.6 M3	Grid 8 71.4 M3	Grid 9 65.5 M3



0 dB = 71.4V/m

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Date/Time: 2/26/2010 3:44:50 PM

Test Laboratory: RIM Testing Services

File Name: [HAC_E_GSM_1900_high_chan.da4](#)

DUT: BlackBerry Smartphone;

Program Name: HAC RF ER3D Device

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/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 = 13.9 V/m; Power Drift = -0.063 dB

Maximum value of Total (measured) = 25.6 V/m

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 = 51.5 V/m

Probe Modulation Factor = 2.74

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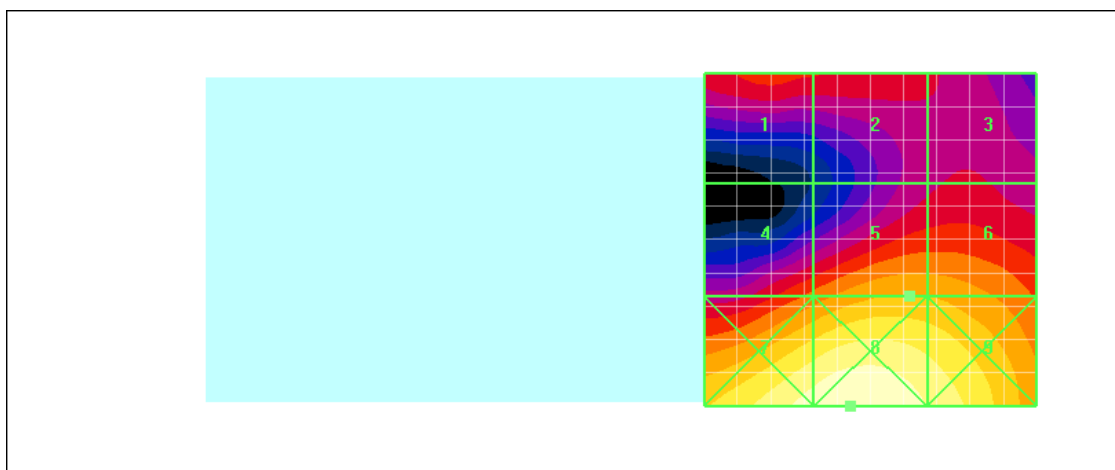
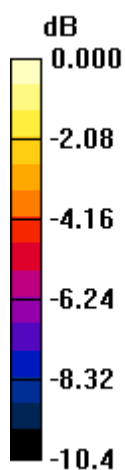
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 13.9 V/m; Power Drift = -0.063 dB


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

Peak E-field in V/m

Grid 1 41.9 M4	Grid 2 40.7 M4	Grid 3 37.9 M4
Grid 4 45.2 M4	Grid 5 51.5 M3	Grid 6 51.2 M3
Grid 7 67.8 M3	Grid 8 70.5 M3	Grid 9 65.1 M3



0 dB = 70.5V/m

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Date/Time: 2/26/2010 4:32:58 PM

Test Laboratory: RIM Testing Services

File Name: [HAC_E_UMTS_band_II_1900_low_chan.da4](#)

DUT: BlackBerry Smartphone;

Program Name: HAC RF ER3D Device

Communication System: WCDMA FDD II; Frequency: 1852.4 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 = -0.068 dB

Maximum value of Total (measured) = 28.7 V/m

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 = 21.4 V/m

Probe Modulation Factor = 0.920

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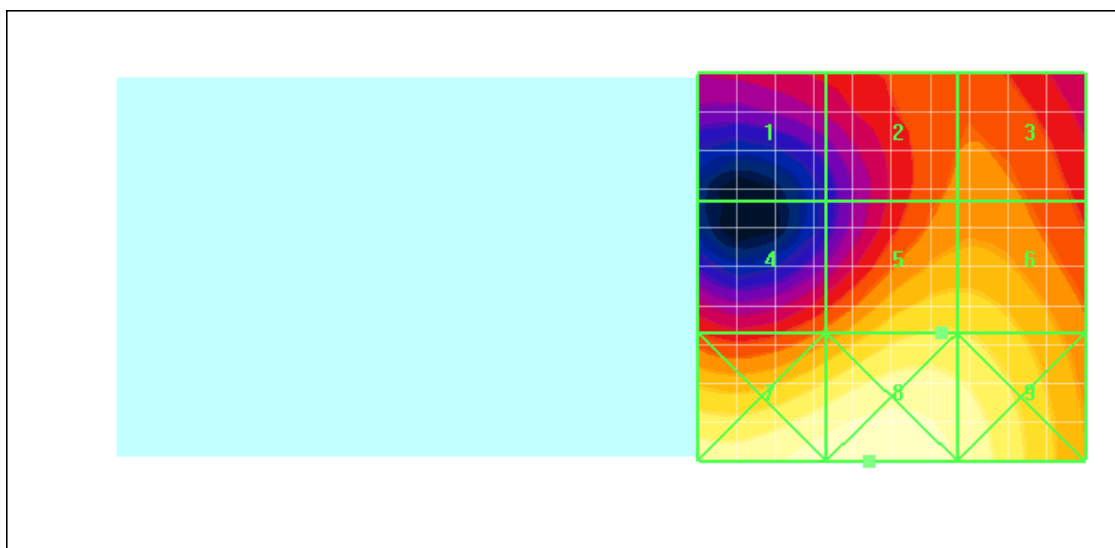
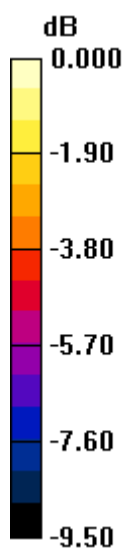
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 20.4 V/m; Power Drift = -0.068 dB


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

Peak E-field in V/m

Grid 1 15.0 M4	Grid 2 17.4 M4	Grid 3 17.6 M4
Grid 4 17.5 M4	Grid 5 21.4 M4	Grid 6 21.3 M4
Grid 7 25.9 M4	Grid 8 26.5 M4	Grid 9 24.4 M4



0 dB = 26.5V/m

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Date/Time: 2/26/2010 4:47:38 PM

Test Laboratory: RIM Testing Services

File Name: [HAC_E_UMTS_band_II_1900_mid_chan.da4](#)

DUT: BlackBerry Smartphone;

Program Name: HAC RF ER3D Device

Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 = 17.6 V/m; Power Drift = 0.059 dB

Maximum value of Total (measured) = 27.6 V/m

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 = 19.7 V/m

Probe Modulation Factor = 0.920

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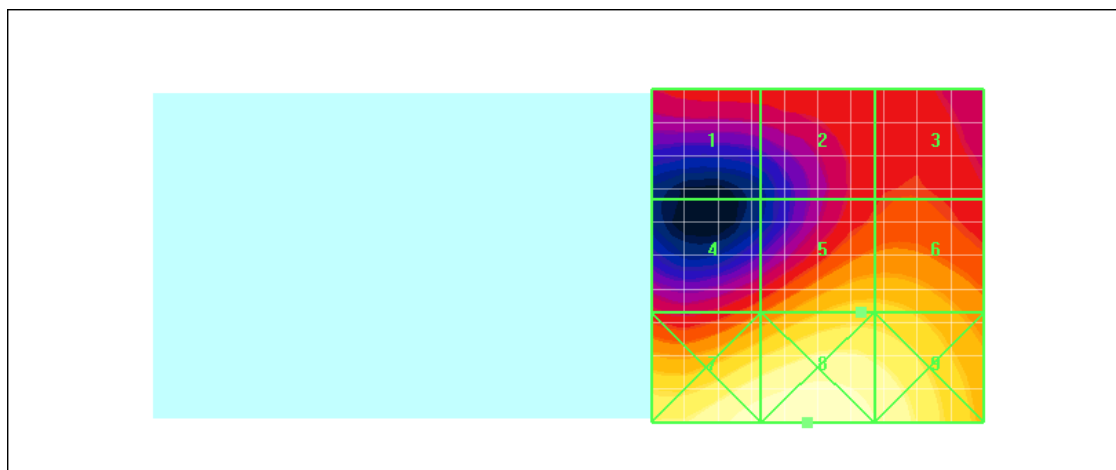
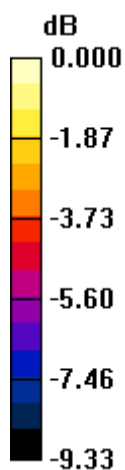
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 17.6 V/m; Power Drift = 0.059 dB


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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
15.0 M4	15.2 M4	15.5 M4
Grid 4	Grid 5	Grid 6
16.4 M4	19.7 M4	19.6 M4
Grid 7	Grid 8	Grid 9
24.9 M4	25.4 M4	23.7 M4



0 dB = 25.4V/m

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Date/Time: 2/26/2010 4:53:26 PM

Test Laboratory: RIM Testing Services

File Name: [HAC_E_UMTS_band_II_1900_high_chan.da4](#)

DUT: BlackBerry Smartphone;

Program Name: HAC RF ER3D Device

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 = 14.7 V/m; Power Drift = 0.093 dB

Maximum value of Total (measured) = 28.2 V/m

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 = 18.3 V/m

Probe Modulation Factor = 0.920

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	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCV71UW			104 (128)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	Feb. 26-Mar. 04, 2010	RTS-2474-1003-01	L6ARCV70UW	

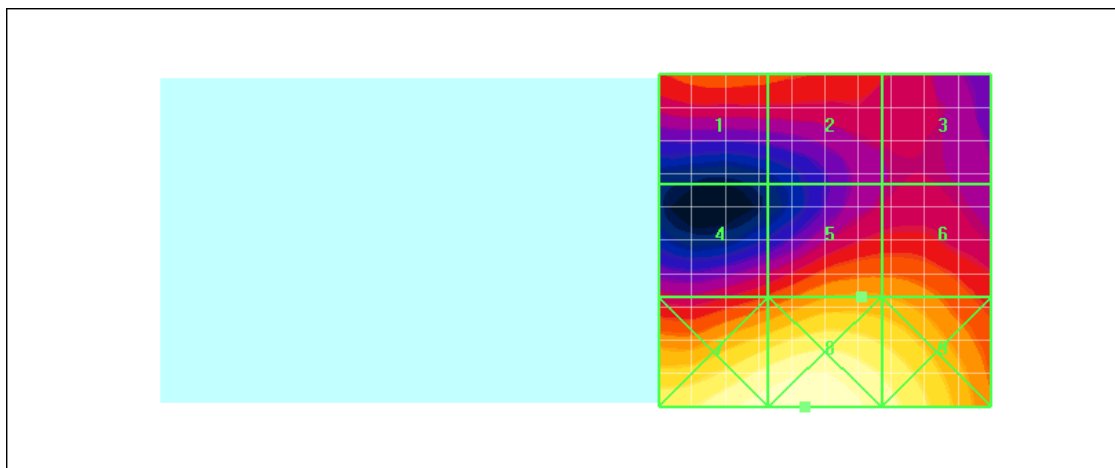
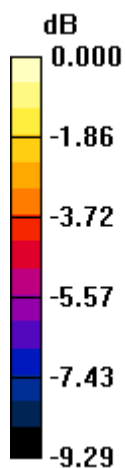
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 14.7 V/m; Power Drift = 0.093 dB


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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
16.5 M4	16.2 M4	14.7 M4
Grid 4	Grid 5	Grid 6
15.9 M4	18.3 M4	18.2 M4
Grid 7	Grid 8	Grid 9
25.3 M4	26.0 M4	23.4 M4



0 dB = 26.0V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCV71UW		Page 105 (128)
Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Date/Time: 3/1/2010 10:00:49 AM

Test Laboratory: RIM Testing Services

File Name: [HAC_H_GSM_850_low_chan.da4](#)

DUT: BlackBerry Smartphone;

Program Name: HAC RF H3DV6 Device

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/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 = 0.085 A/m; Power Drift = -0.020 dB

Maximum value of Total (measured) = 0.167 A/m

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 = 0.320 A/m

Probe Modulation Factor = 2.80

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

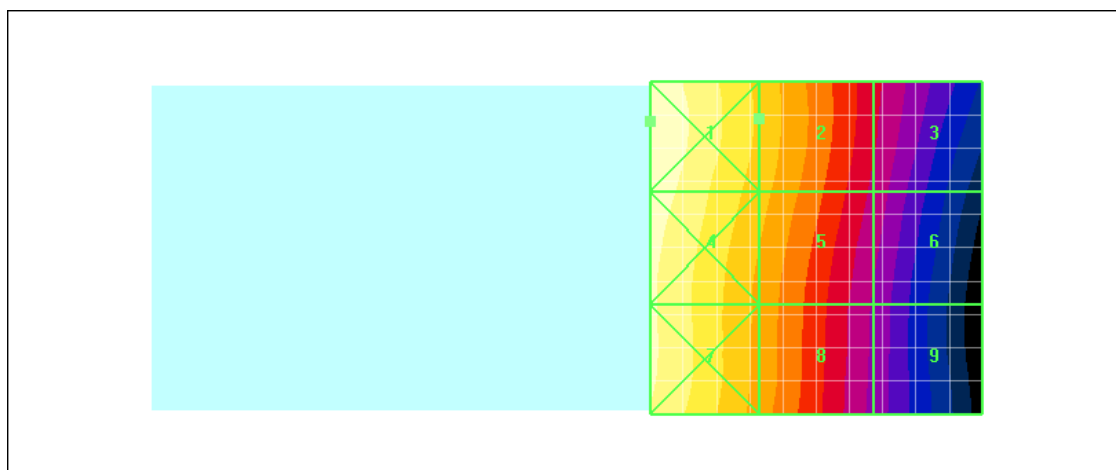
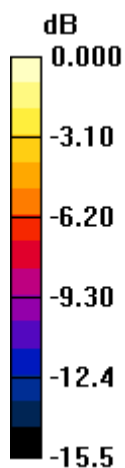
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.085 A/m; Power Drift = -0.020 dB


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

Peak H-field in A/m

Grid 1 0.467 M3	Grid 2 0.320 M4	Grid 3 0.189 M4
Grid 4 0.447 M4	Grid 5 0.305 M4	Grid 6 0.176 M4
Grid 7 0.425 M4	Grid 8 0.281 M4	Grid 9 0.159 M4



0 dB = 0.467 A/m

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Date/Time: 3/1/2010 10:08:53 AM

Test Laboratory: RIM Testing Services

File Name: [HAC_H_GSM_850_mid_chan.da4](#)

DUT: BlackBerry Smartphone;

Program Name: HAC RF H3DV6 Device

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/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 = 0.103 A/m; Power Drift = 0.151 dB

Maximum value of Total (measured) = 0.186 A/m

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 = 0.372 A/m

Probe Modulation Factor = 2.80

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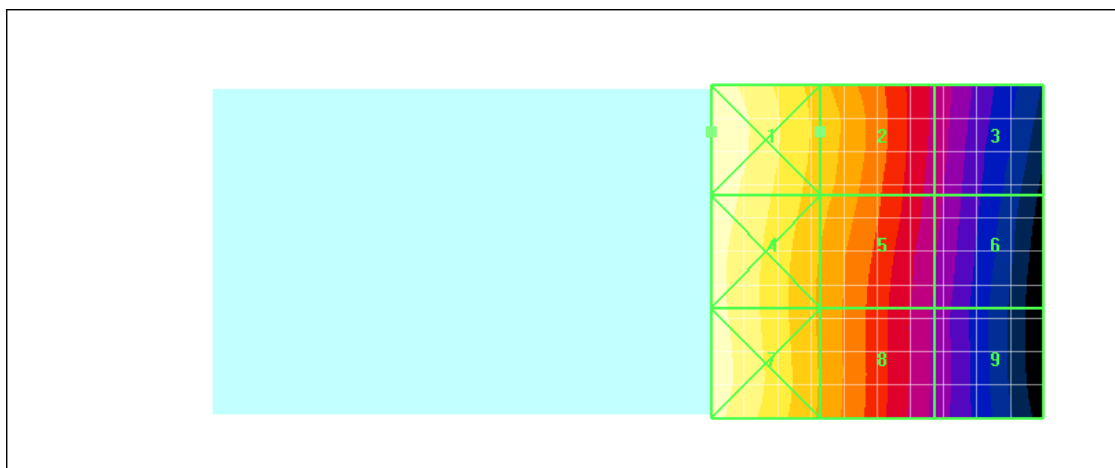
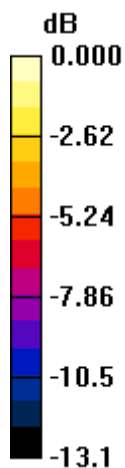
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.103 A/m; Power Drift = 0.151 dB


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

Peak H-field in A/m

Grid 1 0.521 M3	Grid 2 0.372 M4	Grid 3 0.229 M4
Grid 4 0.506 M3	Grid 5 0.361 M4	Grid 6 0.222 M4
Grid 7 0.502 M3	Grid 8 0.346 M4	Grid 9 0.209 M4



0 dB = 0.521A/m

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Date/Time: 3/1/2010 10:15:03 AM

Test Laboratory: RIM Testing Services

File Name: [HAC_H_GSM_850_high_chan.da4](#)

DUT: BlackBerry Smartphone;

Program Name: HAC RF H3DV6 Device

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/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 = 0.117 A/m; Power Drift = -0.034 dB

Maximum value of Total (measured) = 0.195 A/m

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 = 0.389 A/m

Probe Modulation Factor = 2.80

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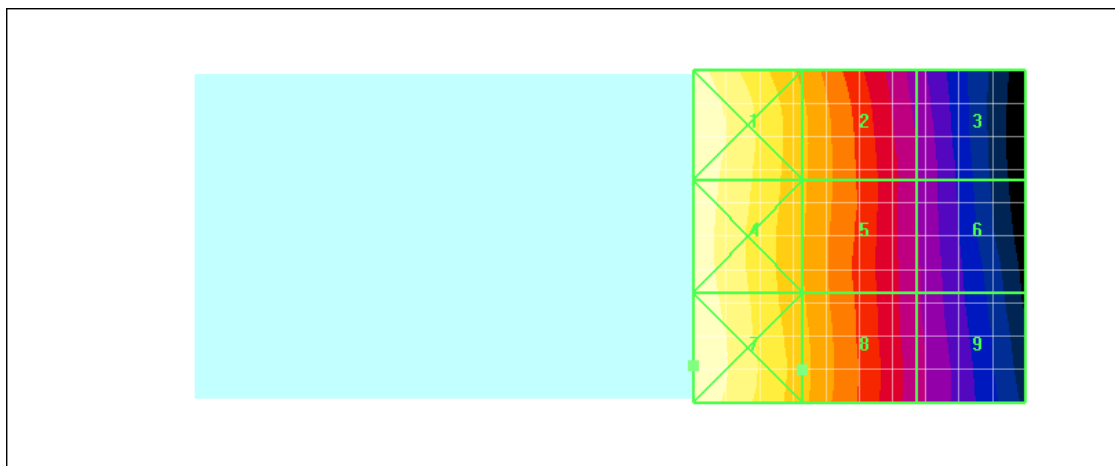
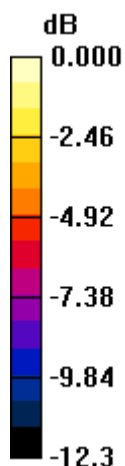
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.117 A/m; Power Drift = -0.034 dB


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

Peak H-field in A/m

Grid 1 0.543 M3	Grid 2 0.384 M4	Grid 3 0.238 M4
Grid 4 0.534 M3	Grid 5 0.381 M4	Grid 6 0.239 M4
Grid 7 0.547 M3	Grid 8 0.389 M4	Grid 9 0.244 M4



0 dB = 0.547A/m

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Date/Time: 3/1/2010 10:52:11 AM

Test Laboratory: RIM Testing Services

File Name: [HAC_H_UMTS_band_V_850_low_chan.da4](#)

DUT: BlackBerry Smartphone;

Program Name: HAC RF H3DV6 Device

Communication System: WCDMA FDD V; Frequency: 826.4 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 = 0.106 A/m; Power Drift = 0.016 dB

Maximum value of Total (measured) = 0.193 A/m

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 = 0.137 A/m

Probe Modulation Factor = 1.01

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

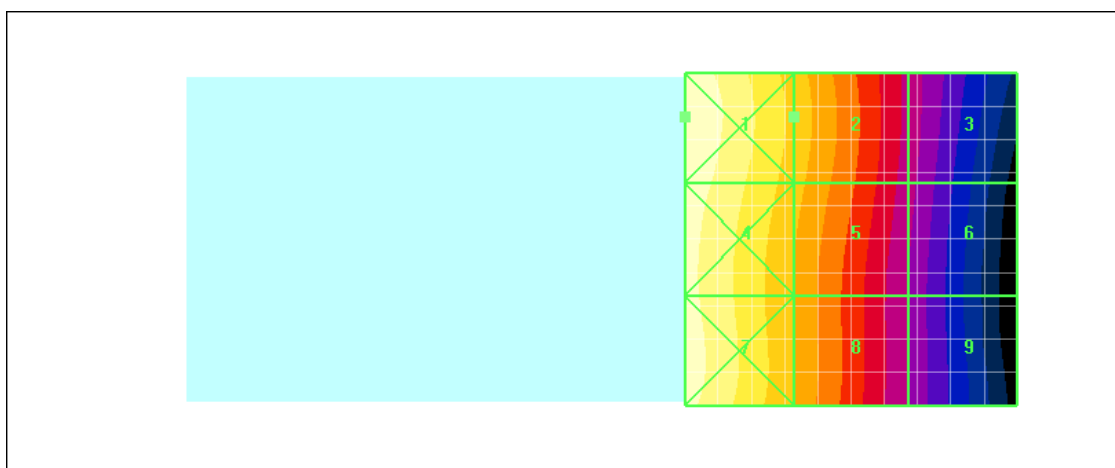
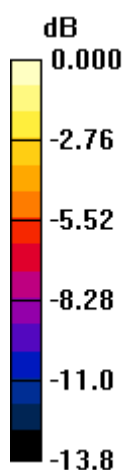
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.106 A/m; Power Drift = 0.016 dB


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

Peak H-field in A/m

Grid 1 0.195 M4	Grid 2 0.137 M4	Grid 3 0.081 M4
Grid 4 0.189 M4	Grid 5 0.133 M4	Grid 6 0.079 M4
Grid 7 0.186 M4	Grid 8 0.128 M4	Grid 9 0.075 M4



0 dB = 0.195A/m

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Date/Time: 3/1/2010 10:57:22 AM

Test Laboratory: RIM Testing Services

File Name: [HAC_H_UMTS_band_V_850_mid_chan.da4](#)

DUT: BlackBerry Smartphone;

Program Name: HAC RF H3DV6 Device

Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 = 0.121 A/m; Power Drift = -0.016 dB

Maximum value of Total (measured) = 0.216 A/m

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 = 0.156 A/m

Probe Modulation Factor = 1.01

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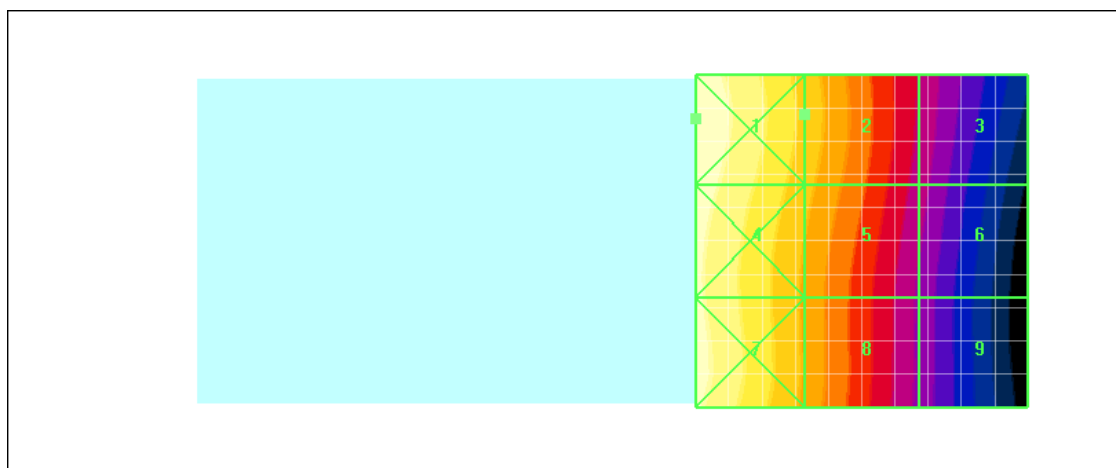
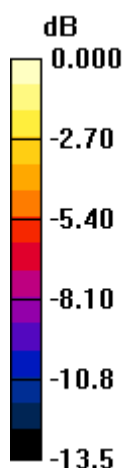
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.121 A/m; Power Drift = -0.016 dB


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

Peak H-field in A/m

Grid 1 0.218 M4	Grid 2 0.156 M4	Grid 3 0.095 M4
Grid 4 0.210 M4	Grid 5 0.150 M4	Grid 6 0.092 M4
Grid 7 0.207 M4	Grid 8 0.143 M4	Grid 9 0.085 M4



0 dB = 0.218A/m

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Date/Time: 3/1/2010 11:03:10 AM

Test Laboratory: RIM Testing Services

File Name: [HAC_H_UMTS_band_V_850_high_chan.da4](#)

DUT: BlackBerry Smartphone;

Program Name: HAC RF H3DV6 Device

Communication System: WCDMA FDD V; Frequency: 846.6 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 = 0.119 A/m; Power Drift = 0.083 dB

Maximum value of Total (measured) = 0.213 A/m

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

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Maximum value of peak Total field = 0.154 A/m

Probe Modulation Factor = 1.01

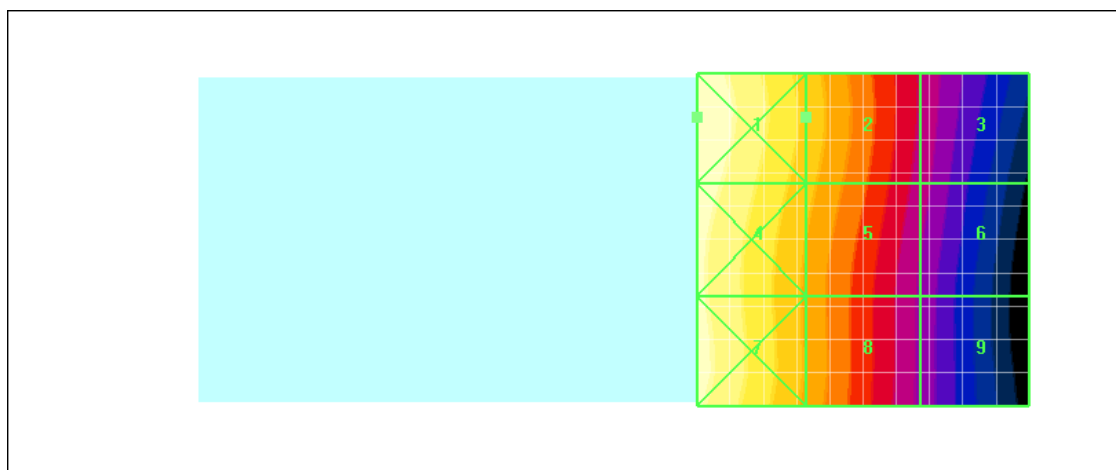
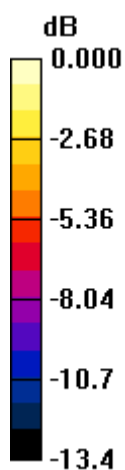
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.119 A/m; Power Drift = 0.083 dB


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

Peak H-field in A/m

Grid 1 0.215 M4	Grid 2 0.154 M4	Grid 3 0.094 M4
Grid 4 0.207 M4	Grid 5 0.149 M4	Grid 6 0.091 M4
Grid 7 0.204 M4	Grid 8 0.142 M4	Grid 9 0.085 M4



0 dB = 0.215A/m

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Date/Time: 3/1/2010 10:24:01 AM

Test Laboratory: RIM Testing Services

File Name: [HAC_H_GSM_1900_low_chan.da4](#)

DUT: BlackBerry Smartphone;

Program Name: HAC RF H3DV6 Device

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/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 = 0.053 A/m; Power Drift = -0.109 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: dx=5mm, dy=5mm

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Maximum value of peak Total field = 0.156 A/m

Probe Modulation Factor = 2.70

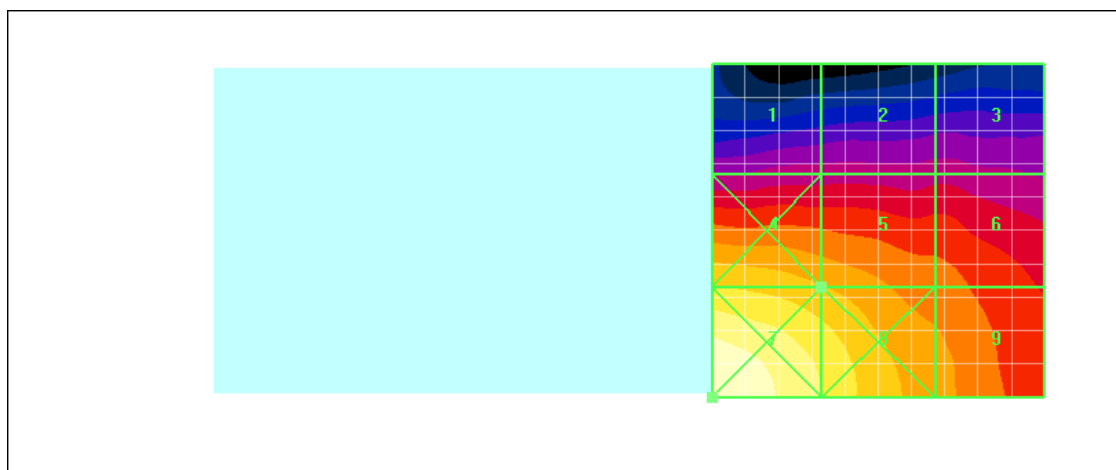
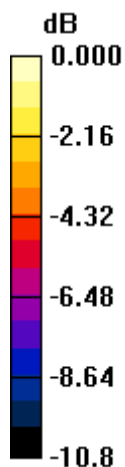
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.053 A/m; Power Drift = -0.109 dB


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

Peak H-field in A/m

Grid 1 0.107 M4	Grid 2 0.108 M4	Grid 3 0.108 M4
Grid 4 0.170 M3	Grid 5 0.156 M3	Grid 6 0.138 M4
Grid 7 0.216 M3	Grid 8 0.183 M3	Grid 9 0.148 M3



0 dB = 0.216A/m

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Date/Time: 3/1/2010 10:29:10 AM

Test Laboratory: RIM Testing Services

File Name: [HAC_H_GSM_1900_mid_chan.da4](#)

DUT: BlackBerry Smartphone;

Program Name: HAC RF H3DV6 Device

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/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 = 0.059 A/m; Power Drift = 0.108 dB

Maximum value of Total (measured) = 0.090 A/m

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

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Maximum value of peak Total field = 0.168 A/m

Probe Modulation Factor = 2.70

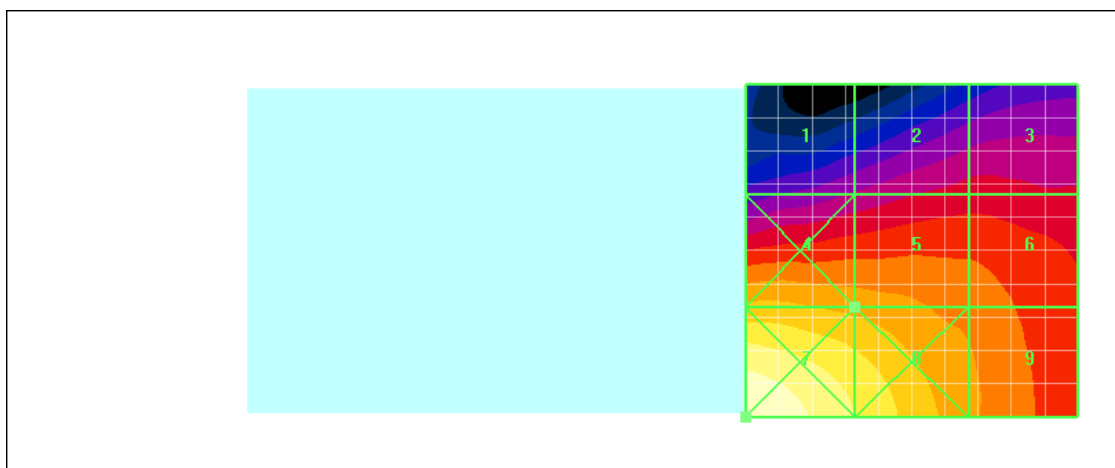
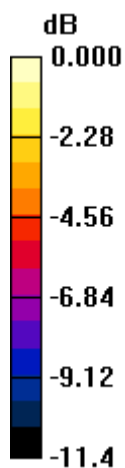
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.059 A/m; Power Drift = 0.108 dB


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

Peak H-field in A/m

Grid 1 0.113 M4	Grid 2 0.127 M4	Grid 3 0.127 M4
Grid 4 0.177 M3	Grid 5 0.168 M3	Grid 6 0.154 M3
Grid 7 0.244 M3	Grid 8 0.205 M3	Grid 9 0.161 M3



0 dB = 0.244A/m

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Date/Time: 3/1/2010 10:34:53 AM

Test Laboratory: RIM Testing Services

File Name: [HAC_H_GSM_1900_high_chan.da4](#)

DUT: BlackBerry Smartphone;

Program Name: HAC RF H3DV6 Device

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/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 = 0.052 A/m; Power Drift = 0.157 dB

Maximum value of Total (measured) = 0.095 A/m

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 = 0.161 A/m

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Probe Modulation Factor = 2.70

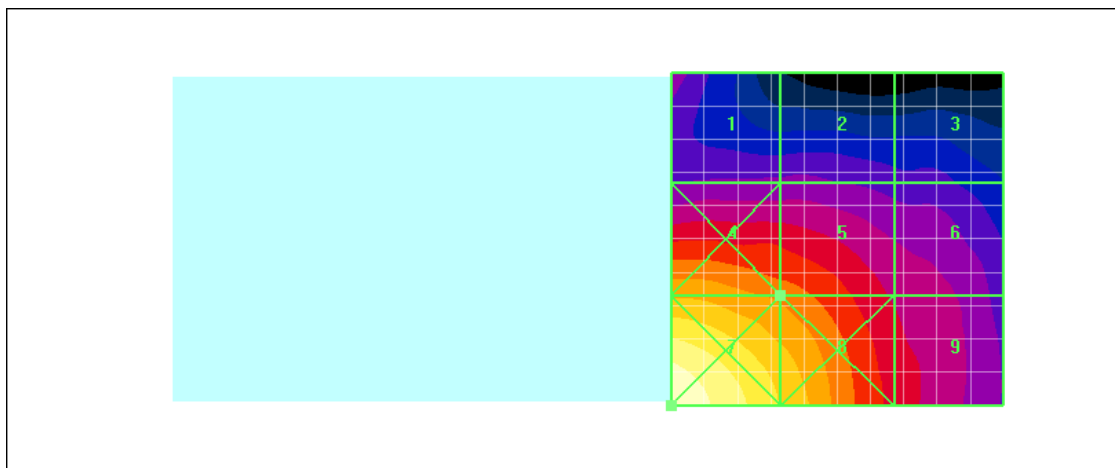
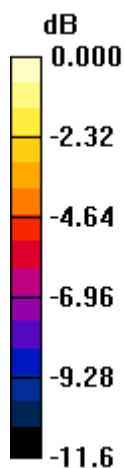
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.052 A/m; Power Drift = 0.157 dB


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

Peak H-field in A/m

Grid 1 0.115 M4	Grid 2 0.109 M4	Grid 3 0.102 M4
Grid 4 0.179 M3	Grid 5 0.161 M3	Grid 6 0.125 M4
Grid 7 0.258 M2	Grid 8 0.197 M3	Grid 9 0.135 M4



0 dB = 0.258A/m

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Date/Time: 3/1/2010 11:10:53 AM

Test Laboratory: RIM Testing Services

File Name: [HAC_H_UMTS_band_II_1900_low_chan.da4](#)

DUT: BlackBerry Smartphone;

Program Name: HAC RF H3DV6 Device

Communication System: WCDMA FDD II; Frequency: 1852.4 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 = 0.067 A/m; Power Drift = 0.070 dB

Maximum value of Total (measured) = 0.097 A/m

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 = 0.070 A/m

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Probe Modulation Factor = 0.960

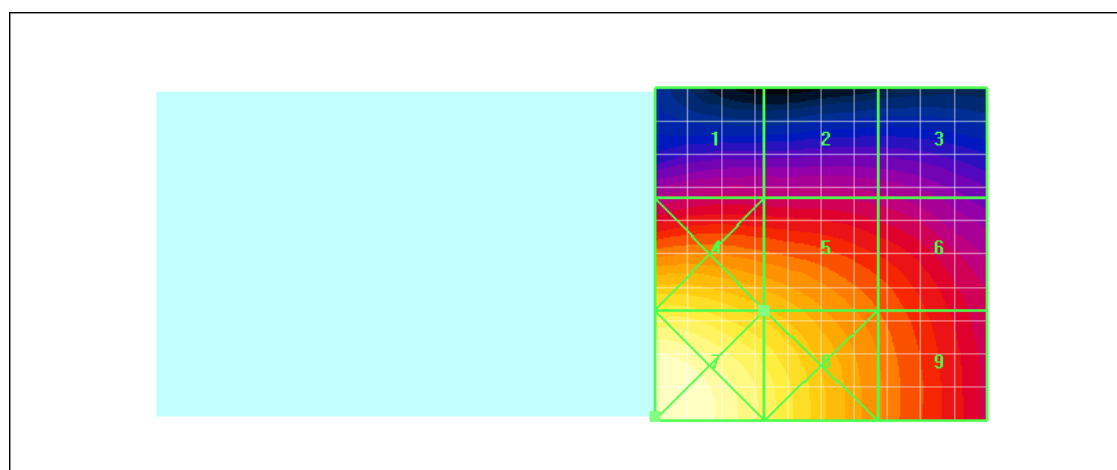
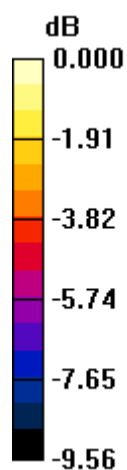
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.067 A/m; Power Drift = 0.070 dB


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

Peak H-field in A/m

Grid 1 0.051 M4	Grid 2 0.050 M4	Grid 3 0.049 M4
Grid 4 0.076 M4	Grid 5 0.070 M4	Grid 6 0.060 M4
Grid 7 0.093 M4	Grid 8 0.079 M4	Grid 9 0.063 M4



0 dB = 0.093A/m

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Date/Time: 3/1/2010 11:17:11 AM

Test Laboratory: RIM Testing Services

File Name: [HAC_H_UMTS_band_II_1900_mid_chan.da4](#)

DUT: BlackBerry Smartphone;

Program Name: HAC RF H3DV6 Device

Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 = -0.031 dB

Maximum value of Total (measured) = 0.097 A/m

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 = 0.067 A/m

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Probe Modulation Factor = 0.960

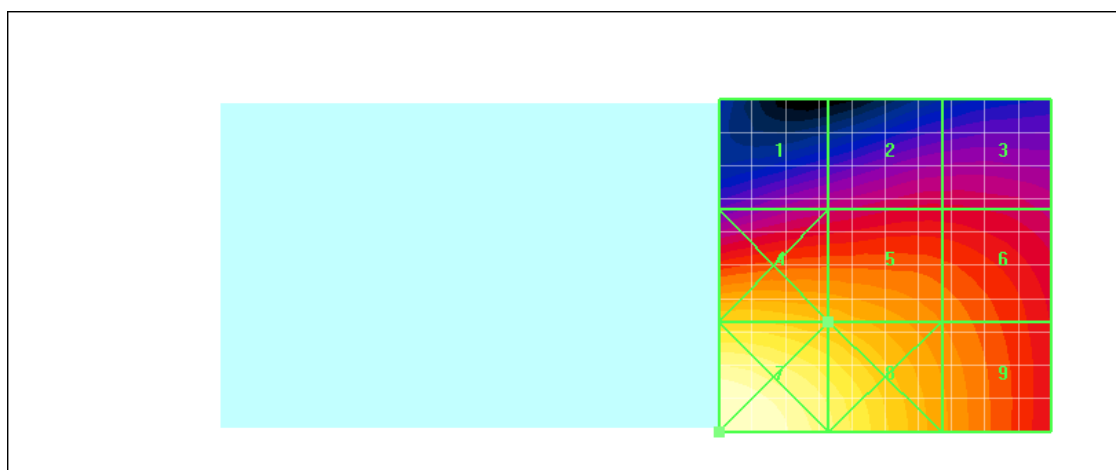
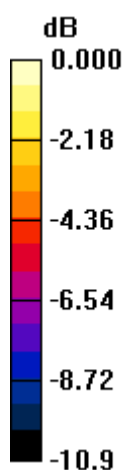
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.065 A/m; Power Drift = -0.031 dB


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

Peak H-field in A/m

Grid 1 0.045 M4	Grid 2 0.048 M4	Grid 3 0.048 M4
Grid 4 0.070 M4	Grid 5 0.067 M4	Grid 6 0.059 M4
Grid 7 0.093 M4	Grid 8 0.080 M4	Grid 9 0.062 M4



0 dB = 0.093A/m

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Date/Time: 3/1/2010 11:23:32 AM

Test Laboratory: RIM Testing Services

File Name: [HAC_H_UMTS_band_II_1900_high_chan.da4](#)

DUT: BlackBerry Smartphone;

Program Name: HAC RF H3DV6 Device

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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 = -0.119 dB

Maximum value of Total (measured) = 0.098 A/m

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 = 0.062 A/m

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Author Data Daoud Attayi	Dates of Test Feb. 26-Mar. 04, 2010	Report No RTS-2474-1003-01	FCC ID L6ARCV70UW

Probe Modulation Factor = 0.960

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.061 A/m; Power Drift = -0.119 dB

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

Peak H-field in A/m

Grid 1 0.044 M4	Grid 2 0.043 M4	Grid 3 0.043 M4
Grid 4 0.068 M4	Grid 5 0.062 M4	Grid 6 0.052 M4
Grid 7 0.094 M4	Grid 8 0.075 M4	Grid 9 0.054 M4

