RTS RIM Testing Services	Annex A to Hearing Aid Cor Report for BlackBerry® Sma			Page 1(50)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20CW	

Annex A: Measurement data and plots

RTS RIM Testing Services	Annex A to Hearing Aid Cor Report for BlackBerry® Small			Page 2(50)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20	CW

A.3 RF emission field plots

For plots where the probe was rotated, an arrow is drawn to showing location of the probe rotation after the exclusion block.

RTS RIM Testing Services	Annex A to Hearing Aid Cor Report for BlackBerry® Small			Page 3(50)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08 RTS-0943-0801-03 L6ARBU20CW			CW

Date/Time: 18/12/2007 4:51:45 PM

Test Laboratory: RTS

File Name: HAC E CDMA800 spkr cent low chan RC1 SO2.da4

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

Program Name: HAC E Device

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

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

Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 SN2285; ConvF(1, 1, 1); Calibrated: 12/03/2007
 Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007
 Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid:

dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 74.0 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 80.2 V/m; Power Drift = -0.014 dB

Maximum value of Total (measured) = 73.6 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 59.1 V/m

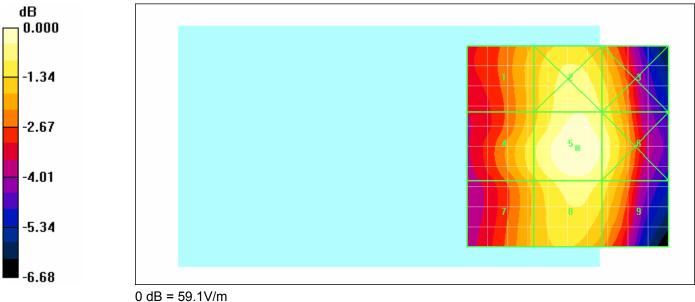
Probe Modulation Factor = 0.800

Reference Value = 80.2 V/m; Power Drift = -0.014 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid	Grid	Grid
49.8	56.2	53.3
Grid	Grid	Grid
52.9	59.1	55.8
Grid	Grid	Grid

RTS RIM Testing Services	Annex A to Hearing Aid Con Report for BlackBerry® Smar			Page 4(50)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20	CW



RTS RIM Testing Services	Annex A to Hearing Aid Cor Report for BlackBerry® Small			Page 5(50)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20	CW

Date/Time: 18/12/2007 4:59:47 PM

Test Laboratory: RTS

File Name: HAC E CDMA800 spkr cent mid chan RC1 SO2.da4

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

Program Name: HAC E Device

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

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

Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 SN2285; ConvF(1, 1, 1); Calibrated: 12/03/2007
 Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007
 Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid:

dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 77.3 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 85.1 V/m; Power Drift = -0.157 dB

Maximum value of Total (measured) = 77.6 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 62.3 V/m

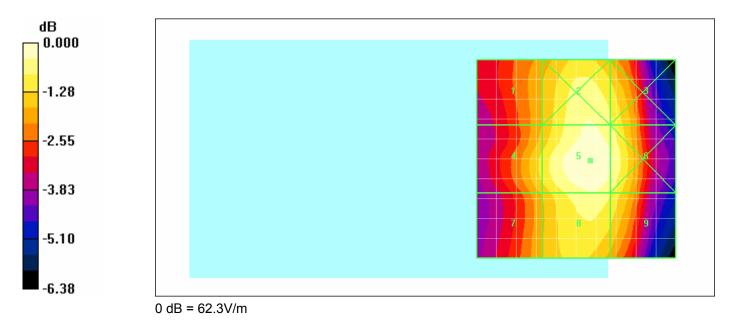
Probe Modulation Factor = 0.800

Reference Value = 85.1 V/m; Power Drift = -0.157 dB

Peak E-field in V/m

Grid	Grid	Grid
51.5	59.5	57.4
Grid	Grid	Grid
54.9	62.3	60.0
Grid	Grid	Grid

RTS RIM Testing Services	Annex A to Hearing Aid Con Report for BlackBerry® Smar			Page 6(50)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20	CW



RTS RIM Testing Services	Annex A to Hearing Aid Cor Report for BlackBerry® Small			Page 7(50)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20	CW

Date/Time: 18/12/2007 4:09:42 PM

Test Laboratory: RTS

File Name: HAC E CDMA800 spkr cent high chan RC1 SO2.da4

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

Program Name: HAC E Device

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

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

Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 SN2285; ConvF(1, 1, 1); Calibrated: 12/03/2007
 Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007 Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid:

dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 81.0 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 87.0 V/m; Power Drift = 0.020 dB

Maximum value of Total (measured) = 80.6 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 64.7 V/m

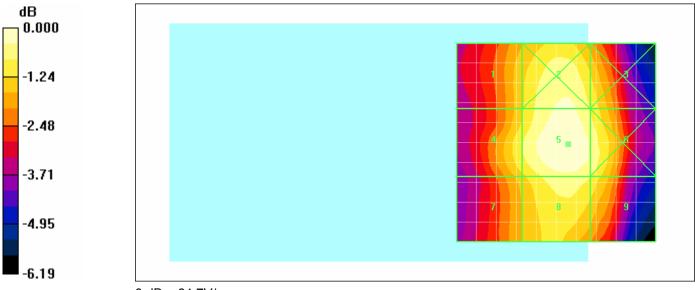
Probe Modulation Factor = 0.800

Reference Value = 87.0 V/m; Power Drift = 0.020 dB

Peak E-field in V/m

Grid	Grid	Grid
55.9	62.3	58.8
Grid	Grid	Grid
58.8	64.7	61.5
Grid	Grid	Grid

RTS RIM Testing Services	Annex A to Hearing Aid Con Report for BlackBerry® Smar	-		Page 8(50)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20	CW



RTS RIM Testing Services	Annex A to Hearing Aid Cor Report for BlackBerry® Small			Page 9(50)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20CW	

Date/Time: 07/01/2008 9:49:17 AM

Test Laboratory: RTS

File Name: HAC E CDMA800 spkr cent high chan RC1 SO3 1/8th 01 07 08.da4

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

Program Name: HAC E Device

Communication System: CDMA 800; Frequency: 848.52 MHz; Duty Cycle: 1:8

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

Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 SN2285; ConvF(1, 1, 1); Calibrated: 12/03/2007
 Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007
 Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid:

dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 38.6 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 43.3 V/m; Power Drift = 0.018 dB

Maximum value of Total (measured) = 42.0 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 88.6 V/m

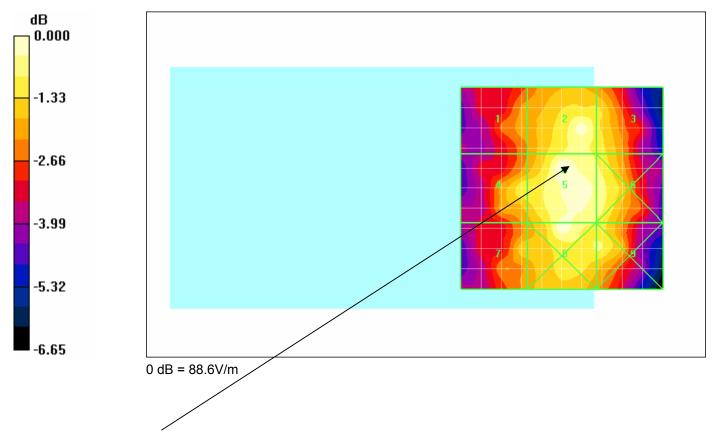
Probe Modulation Factor = 2.10

Reference Value = 43.3 V/m; Power Drift = 0.018 dB

Peak E-field in V/m

Grid	Grid	Grid
71.8	85.8	79.3
Grid	Grid	Grid
79.9	88.6	83.3
Grid	Grid	Grid

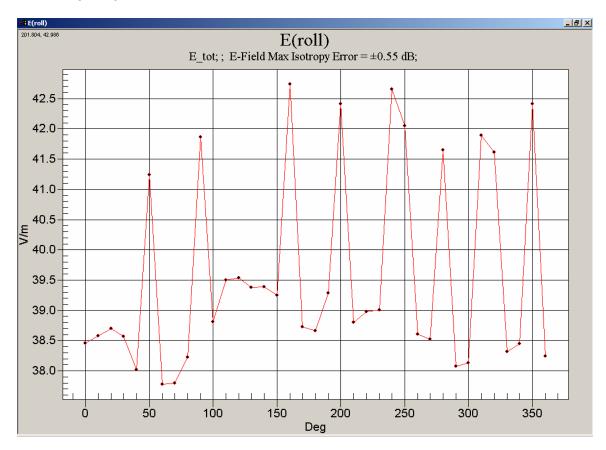
RTS RIM Testing Services	Annex A to Hearing Aid Con Report for BlackBerry® Smar			Page 10(50)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20	CW



Location of the probe rotation after applying exclusion blocks

RTS RIM Testing Services	Annex A to Hearing Aid Con Report for BlackBerry® Smar			Page 11(50)
Author Data	Dates of Test Report No FCC ID			
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20	CW

E (delta) = (E max - E at zero degress) * PMF = (42.8 - 38.4) * 2.10 = 4.4 * 2.10 = 9.24 V/m



RTS RIM Testing Services	Annex A to Hearing Aid Cor Report for BlackBerry® Small			Page 12(50)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20	CW

Date/Time: 19/12/2007 5:19:25 PM

Test Laboratory: RTS

File Name: HAC E CDMA1900 spkr cent low chan RC1 SO2 FR.da4

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

Program Name: HAC E Device

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1

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

Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 SN2285; ConvF(1, 1, 1); Calibrated: 12/03/2007
 Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007
 Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid:

dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 46.6 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 25.6 V/m; Power Drift = 0.033 dB

Maximum value of Total (measured) = 47.9 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 45.8 V/m

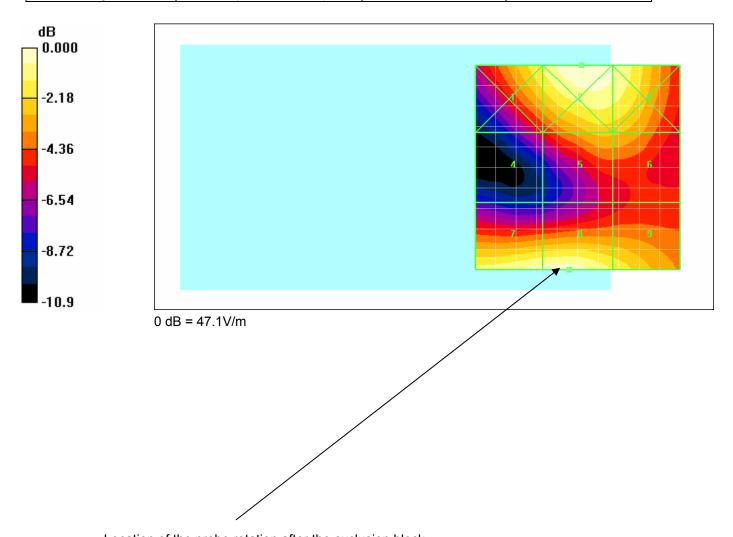
Probe Modulation Factor = 0.980

Reference Value = 25.6 V/m; Power Drift = 0.033 dB

Peak E-field in V/m

Grid	Grid	Grid
40.6	47.1	44.1
Grid	Grid	Grid
25.8	34.7	34.4
Grid	Grid	Grid

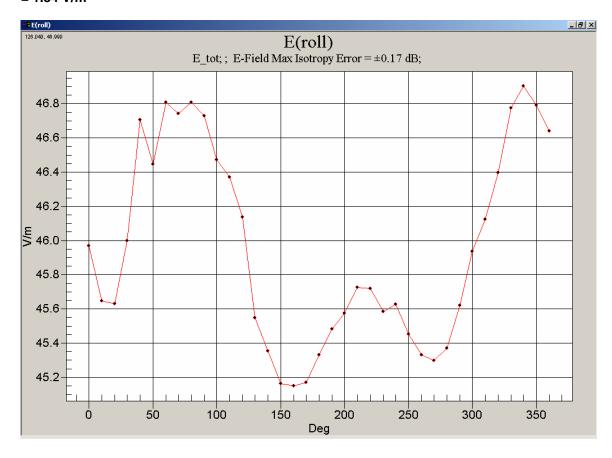
RTS RIM Testing Services	Annex A to Hearing Aid Con Report for BlackBerry® Smar			Page 13(50)
Author Data	Dates of Test Report No FCC ID			
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20	CW



Location of the probe rotation after the exclusion block

RTS RIM Testing Services	Annex A to Hearing Aid Con Report for BlackBerry® Smar			Page 14(50)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20	CW

E (delta) = (E max - E at zero degress) * PMF = (46.80 - 45.95) *1.58 = 0.85 * 1.58 = 1.34 V/m



RTS RIM Testing Services	Annex A to Hearing Aid Cor Report for BlackBerry® Small			Page 15(50)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20	CW

Date/Time: 18/12/2007 9:18:21 PM

Test Laboratory: RTS

File Name: HAC E CDMA1900 spkr cent mid chan RC1 SO2 FR.da4

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

Program Name: HAC E Device

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

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

Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 SN2285; ConvF(1, 1, 1); Calibrated: 12/03/2007
 Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007
 Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid:

dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 38.7 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 21.2 V/m; Power Drift = 0.117 dB

Maximum value of Total (measured) = 48.9 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 38.2 V/m

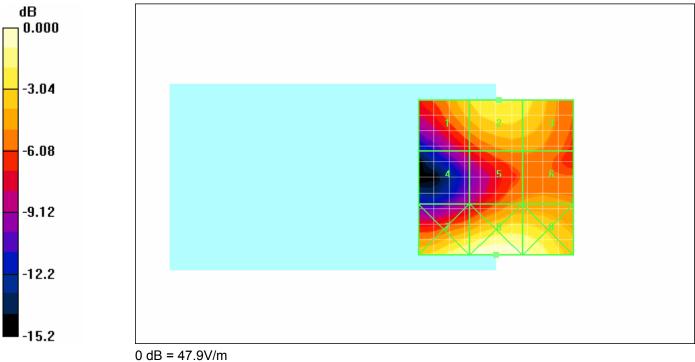
Probe Modulation Factor = 0.980

Reference Value = 21.2 V/m; Power Drift = 0.117 dB

Peak E-field in V/m

Grid	Grid	Grid
34.1	38.2	35.8
Grid	Grid	Grid
20.8	27.5	27.9
Grid	Grid	Grid

RTS RIM Testing Services	Annex A to Hearing Aid Cor Report for BlackBerry® Smar			Page 16(50)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20	CW



RTS RIM Testing Services	Annex A to Hearing Aid Con Report for BlackBerry® Smar			Page 17(50)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20	CW

Date/Time: 18/12/2007 9:03:16 PM

Test Laboratory: RTS

File Name: HAC E CDMA1900 spkr cent high chan RC1 SO2 FR.da4

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

Program Name: HAC E Device

Communication System: CDMA 1900; Frequency: 1908.5 MHz; Duty Cycle: 1:1

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

Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 SN2285; ConvF(1, 1, 1); Calibrated: 12/03/2007
 Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007 Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid:

dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 34.9 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 18.8 V/m; Power Drift = -0.126 dB

Maximum value of Total (measured) = 49.7 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 34.0 V/m

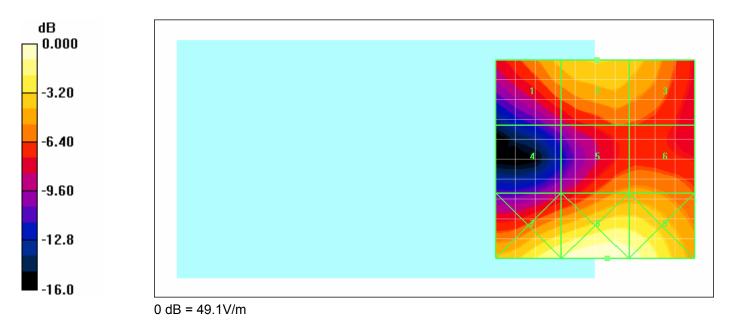
Probe Modulation Factor = 0.980

Reference Value = 18.8 V/m; Power Drift = -0.126 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid	Grid	Grid
31.2	34.0	32.0
Grid	Grid	Grid
17.9	27.6	27.7
Grid	Grid	Grid

RTS RIM Testing Services	Annex A to Hearing Aid Cor Report for BlackBerry® Small			Page 18(50)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20	CW



RTS RIM Testing Services	Annex A to Hearing Aid Cor Report for BlackBerry® Small			Page 19(50)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20	CW

Date/Time: 18/12/2007 10:00:41 PM

Test Laboratory: RTS

File Name: HAC E CDMA1900 spkr cent low chan RC3 SO3 FR.da4

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

Program Name: HAC E Device

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1

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

Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 SN2285; ConvF(1, 1, 1); Calibrated: 12/03/2007
 Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007
 Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid:

dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 38.0 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 21.7 V/m; Power Drift = -0.040 dB

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

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 36.8 V/m

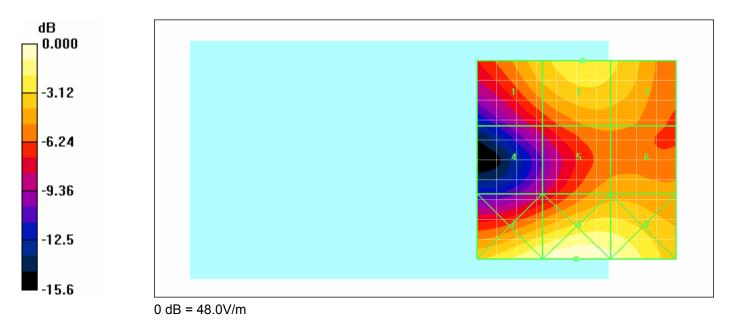
Probe Modulation Factor = 0.980

Reference Value = 21.7 V/m; Power Drift = -0.040 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid	Grid	Grid
32.8	36.8	34.7
Grid	Grid	Grid
20.4	28.5	28.8
Grid	Grid	Grid

RTS RIM Testing Services	Annex A to Hearing Aid Con Report for BlackBerry® Smar			Page 20(50)
Author Data	Dates of Test Report No FCC ID			
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20	CW



RTS RIM Testing Services	Annex A to Hearing Aid Con Report for BlackBerry® Smar			Page 21(50)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20	CW

Date/Time: 18/12/2007 9:52:25 PM

Test Laboratory: RTS

File Name: HAC E CDMA1900 spkr cent low chan RC3 SO2 FR.da4

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

Program Name: HAC E Device

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1

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

Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 SN2285; ConvF(1, 1, 1); Calibrated: 12/03/2007
 Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007 Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid:

dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 37.5 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 21.4 V/m; Power Drift = 0.295 dB

Maximum value of Total (measured) = 49.8 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 36.3 V/m

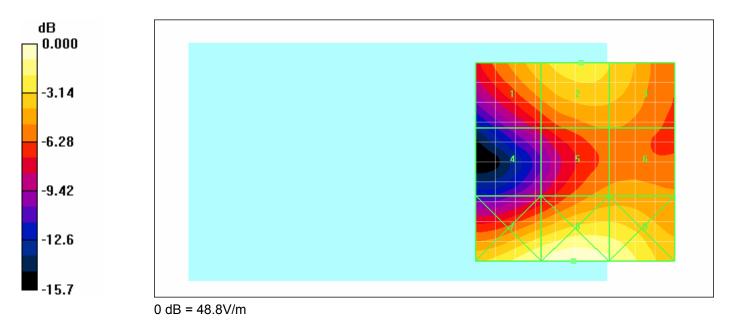
Probe Modulation Factor = 0.980

Reference Value = 21.4 V/m; Power Drift = 0.295 dB

Peak E-field in V/m

Grid	Grid	Grid
33.1	36.3	34.3
Grid	Grid	Grid
20.2	28.3	28.7
Grid	Grid	Grid

RTS RIM Testing Services	Annex A to Hearing Aid Con Report for BlackBerry® Smar			Page 22(50)
Author Data	Dates of Test Report No FCC ID			
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20	CW



RTS RIM Testing Services	Annex A to Hearing Aid Cor Report for BlackBerry® Small			Page 23(50)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20	CW

Date/Time: 18/12/2007 9:44:09 PM

Test Laboratory: RTS

File Name: HAC E CDMA1900 spkr cent low chan RC2 SO9 FR.da4

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

Program Name: HAC E Device

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1

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

Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 SN2285; ConvF(1, 1, 1); Calibrated: 12/03/2007
 Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007 Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid:

dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 37.4 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 21.6 V/m; Power Drift = 0.103 dB

Maximum value of Total (measured) = 49.2 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 36.3 V/m

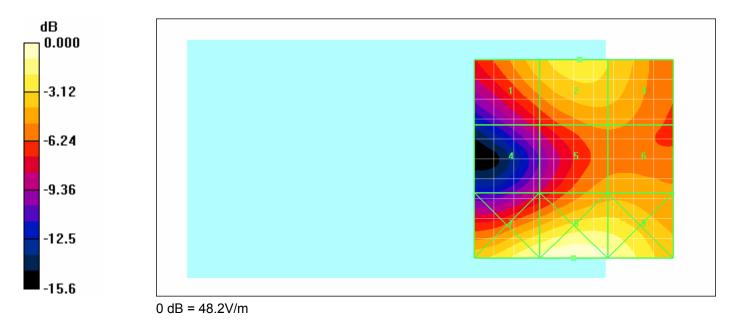
Probe Modulation Factor = 0.980

Reference Value = 21.6 V/m; Power Drift = 0.103 dB

Peak E-field in V/m

Grid	Grid	Grid
32.7	36.3	33.9
Grid	Grid	Grid
20.1	28.5	28.8
Grid	Grid	Grid

RTS RIM Testing Services	Annex A to Hearing Aid Con Report for BlackBerry® Smar	-		Page 24(50)
Author Data	Dates of Test Report No FCC ID			
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20	CW



RTS RIM Testing Services	Annex A to Hearing Aid Cor Report for BlackBerry® Small			Page 25(50)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20	CW

Date/Time: 07/01/2008 9:38:39 AM

Test Laboratory: RTS

File Name: HAC E CDMA1900 spkr cent low chan RC1 SO3 1/8th 01 07 08.da4

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

Program Name: HAC E Device

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:8

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

Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 SN2285; ConvF(1, 1, 1); Calibrated: 12/03/2007
 Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007
 Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid:

dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 15.0 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 8.20 V/m; Power Drift = 0.175 dB

Maximum value of Total (measured) = 18.9 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 40.3 V/m

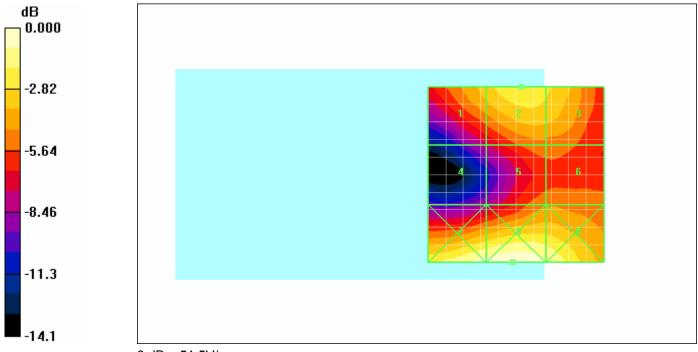
Probe Modulation Factor = 2.72

Reference Value = 8.20 V/m; Power Drift = 0.175 dB

Peak E-field in V/m

Grid	Grid	Grid
35.5	40.3	38.1
Grid	Grid	Grid
21.4	29.4	29.7
Grid	Grid	Grid

RTS RIM Testing Services	Annex A to Hearing Aid Con Report for BlackBerry® Smar			Page 26(50)
Author Data	Dates of Test Report No FCC ID			
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20	CW



0 dB = 51.5V/m

RTS RIM Testing Services	Annex A to Hearing Aid Cor Report for BlackBerry® Small			Page 27(50)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20	CW

Date/Time: 18/12/2007 5:57:05 PM

Test Laboratory: RTS

File Name: HAC H CDMA800 spkr cent low chan RC1 SO2 FR.da4

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

Program Name: HAC H Device

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

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

Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/09/2008

- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007
 Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 0.073 A/m; Power Drift = 0.023 dB Maximum value of Total (measured) = 0.146 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement

grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 0.144 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 0.095 A/m

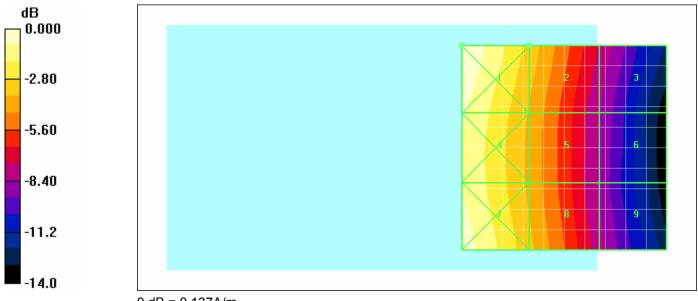
Probe Modulation Factor = 0.940

Reference Value = 0.073 A/m; Power Drift = 0.023 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid	Grid	Grid
0.137	0.095	0.058
Grid	Grid	Grid
0.125	0.088	0.053
Grid	Grid	Grid

RTS RIM Testing Services	Annex A to Hearing Aid Con Report for BlackBerry® Smar			Page 28(50)
Author Data	Dates of Test Report No FCC ID			
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20	CW



RTS RIM Testing Services	Annex A to Hearing Aid Cor Report for BlackBerry® Small			Page 29(50)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20	CW

Date/Time: 18/12/2007 6:04:49 PM

Test Laboratory: RTS

File Name: HAC H CDMA800 spkr cent mid chan RC1 SO2 FR.da4

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

Program Name: HAC H Device

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

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

Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/09/2008

- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007
 Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 0.078 A/m; Power Drift = -0.055 dB Maximum value of Total (measured) = 0.151 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement

grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 0.150 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 0.099 A/m

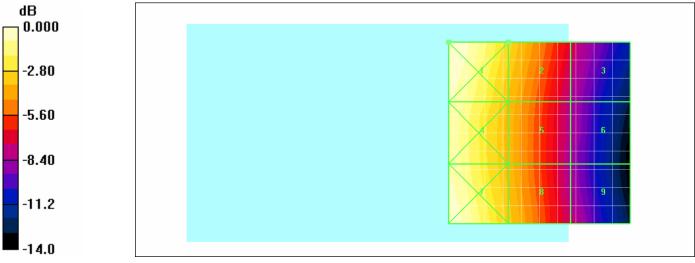
Probe Modulation Factor = 0.940

Reference Value = 0.078 A/m; Power Drift = -0.055 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid	Grid	Grid
0.142	0.099	0.060
Grid	Grid	Grid
0.130	0.092	0.055
Grid	Grid	Grid

RTS RIM Testing Services	Annex A to Hearing Aid Con Report for BlackBerry® Smar			Page 30(50)
Author Data	Dates of Test Report No FCC ID			
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20	CW



0 dB = 0.142A/m

RTS RIM Testing Services	Annex A to Hearing Aid Cor Report for BlackBerry® Small			Page 31(50)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20	CW

Date/Time: 18/12/2007 5:16:50 PM

Test Laboratory: RTS

File Name: HAC H CDMA800 spkr cent high chan RC1 SO2 FR.da4

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

Program Name: HAC H Device

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

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

Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/09/2008

- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007
 Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 0.085 A/m; Power Drift = -0.110 dB Maximum value of Total (measured) = 0.161 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement

grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 0.159 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 0.106 A/m

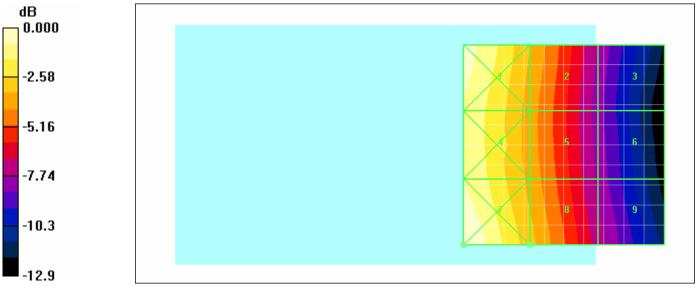
Probe Modulation Factor = 0.940

Reference Value = 0.085 A/m; Power Drift = -0.110 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid	Grid	Grid
0.144	0.102	0.062
Grid	Grid	Grid
0.137	0.099	0.061
Grid	Grid	Grid

RTS RIM Testing Services	Annex A to Hearing Aid Con Report for BlackBerry® Smar			Page 32(50)
Author Data	Dates of Test Report No FCC ID			
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20	CW



RTS RIM Testing Services	Annex A to Hearing Aid Cor Report for BlackBerry® Small			Page 33(50)
Author Data	Dates of Test Report No FCC ID			
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20	CW

Date/Time: 07/01/2008 10:40:44 AM

Test Laboratory: RTS

File Name: HAC H CDMA800 spkr cent high chan RC1 SO3 1/8th 01 07 08.da4

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

Program Name: HAC H Device

Communication System: CDMA 800; Frequency: 848.52 MHz; Duty Cycle: 1:8

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

Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/09/2008

- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn472; Calibrated: 07/03/2007 Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 0.034 A/m; Power Drift = 0.183 dB Maximum value of Total (measured) = 0.070 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement

grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 0.065 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.168 A/m

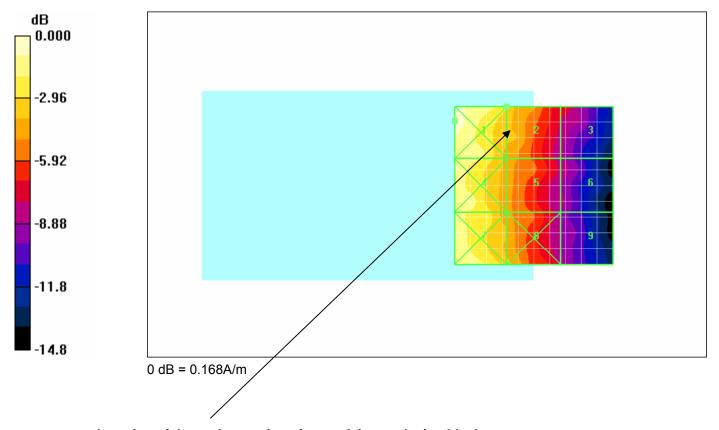
Probe Modulation Factor = 2.41

Reference Value = 0.034 A/m; Power Drift = 0.183 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

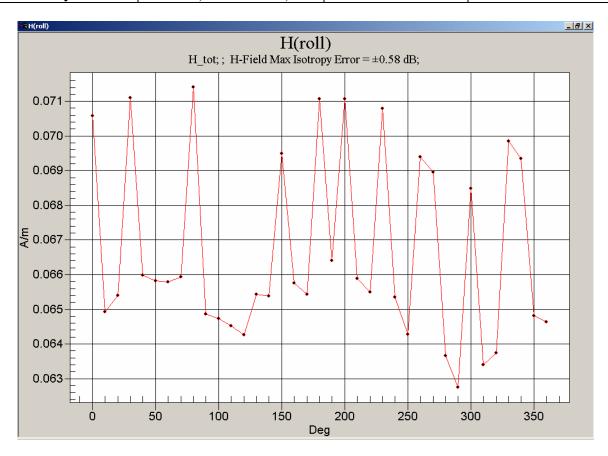
Grid	Grid	Grid
1	2	3
0.168	0.121	0.075
Grid	Grid	Grid
4	5	6
0.154	0.103	0.066
Grid	Grid	Grid
7	8	9

RTS RIM Testing Services	Annex A to Hearing Aid Con Report for BlackBerry® Smar			Page 34(50)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20	CW



Location of the probe rotation after applying exclusion blocks

RTS RIM Testing Services	Annex A to Hearing Aid Con Report for BlackBerry® Smar			Page 35(50)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20	CW



RTS RIM Testing Services	Annex A to Hearing Aid Cor Report for BlackBerry® Small			Page 36(50)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20	CW

Date/Time: 18/12/2007 6:52:17 PM

Test Laboratory: RTS

File Name: HAC H CDMA1900 spkr cent low chan RC1 SO2 FR.da4

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

Program Name: HAC H Device

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1

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

Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/09/2008

- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007
 Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 0.108 A/m; Power Drift = 0.200 dB Maximum value of Total (measured) = 0.114 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 0.111 A/m

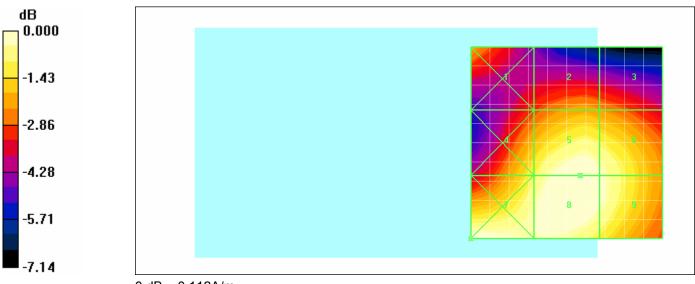
Probe Modulation Factor = 0.980

Reference Value = 0.108 A/m; Power Drift = 0.200 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid	Grid	Grid
0.088	0.088	0.086
Grid	Grid	Grid
0.099	0.110	0.107
Grid	Grid	Grid

RTS RIM Testing Services	Annex A to Hearing Aid Con Report for BlackBerry® Smar			Page 37(50)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20	CW



RTS RIM Testing Services	Annex A to Hearing Aid Cor Report for BlackBerry® Small			Page 38(50)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20	CW

Date/Time: 18/12/2007 7:09:14 PM

Test Laboratory: RTS

File Name: HAC H CDMA1900 spkr cent mid chan RC1 SO2 FR.da4

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

Program Name: HAC H Device

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

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

Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/09/2008

- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007
 Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 0.105 A/m; Power Drift = 0.050 dB Maximum value of Total (measured) = 0.134 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 0.105 A/m

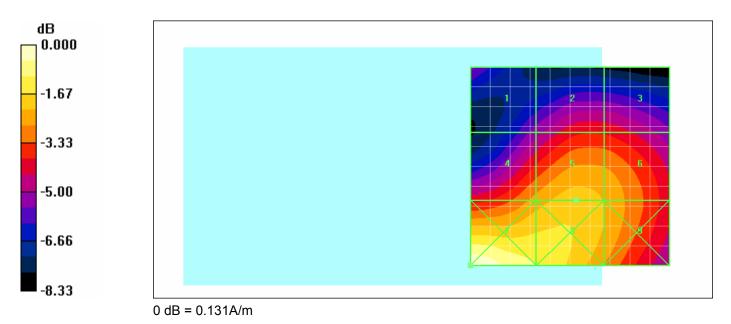
Probe Modulation Factor = 0.980

Reference Value = 0.105 A/m; Power Drift = 0.050 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid	Grid	Grid
0.072	0.084	0.083
Grid	Grid	Grid
0.098	0.105	0.101
Grid	Grid	Grid

RTS RIM Testing Services	Annex A to Hearing Aid Con Report for BlackBerry® Smar			Page 39(50)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20	CW



Date/Time: 18/12/2007 6:31:56 PM

Test Laboratory: RTS

File Name: HAC H CDMA1900 spkr cent high chan RC1 SO2 FR.da4

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

Program Name: HAC H Device

Communication System: CDMA 1900; Frequency: 1908.5 MHz; Duty Cycle: 1:1

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

Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/09/2008

- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007 Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 0.103 A/m; Power Drift = 0.139 dB Maximum value of Total (measured) = 0.133 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement

grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 0.135 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 0.103 A/m

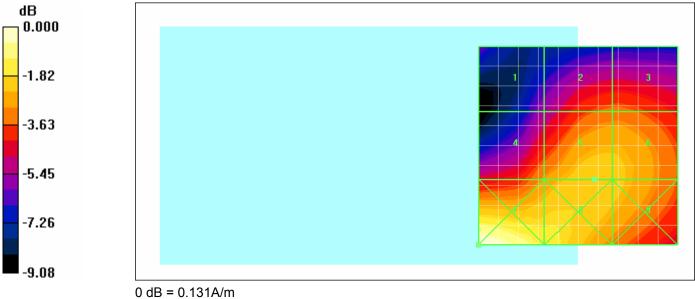
Probe Modulation Factor = 0.980

Reference Value = 0.103 A/m; Power Drift = 0.139 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid	Grid	Grid
0.070	0.088	0.088
Grid	Grid	Grid
0.093	0.103	0.101
Grid	Grid	Grid

RTS RIM Testing Services	Annex A to Hearing Aid Con Report for BlackBerry® Smar			Page 41(50)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20	CW



RIM Testing Services

Annex A to Hearing Aid Compatibility RF Emissions Test
Report for BlackBerry® Smartphone Model RBU21CW

Author Data
Dates of Test
Daoud Attayi

Dates of Test
Date

Date/Time: 18/12/2007 8:31:14 PM

Test Laboratory: RTS

File Name: HAC H CDMA1900 spkr cent low chan RC3 SO2 FR.da4

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

Program Name: HAC H Device

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1

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

Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/09/2008

- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007 Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 0.107 A/m; Power Drift = -0.050 dB Maximum value of Total (measured) = 0.141 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement

grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 0.138 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 0.109 A/m

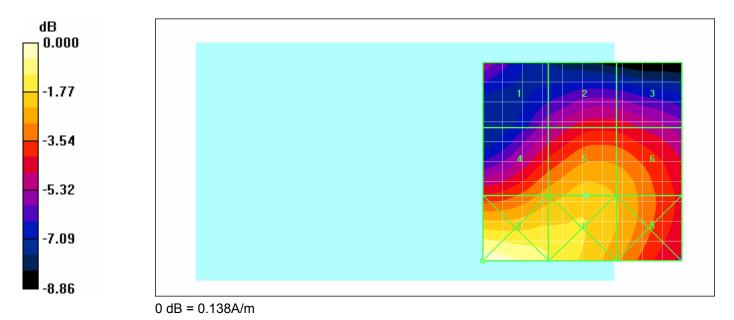
Probe Modulation Factor = 0.980

Reference Value = 0.107 A/m; Power Drift = -0.050 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid	Grid	Grid
0.075	0.085	0.084
Grid	Grid	Grid
0.102	0.109	0.105
Grid	Grid	Grid

RTS RIM Testing Services	Annex A to Hearing Aid Con Report for BlackBerry® Smar			Page 43(50)
Author Data	Dates of Test Report No FCC ID			
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20	CW



RTS RIM Testing Services	Annex A to Hearing Aid Cor Report for BlackBerry® Small			Page 44(50)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20	CW

Date/Time: 18/12/2007 8:41:48 PM

Test Laboratory: RTS

File Name: HAC H CDMA1900 spkr cent low chan RC3 SO3 FR.da4

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

Program Name: HAC H Device

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1

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

Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/09/2008

- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007 Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 0.108 A/m; Power Drift = -0.064 dB Maximum value of Total (measured) = 0.140 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement

grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 0.139 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 0.109 A/m

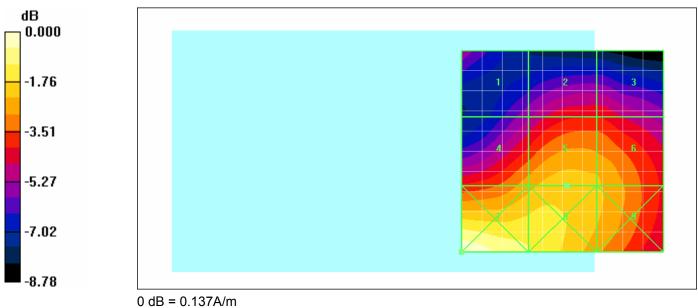
Probe Modulation Factor = 0.980

Reference Value = 0.108 A/m; Power Drift = -0.064 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid	Grid	Grid
0.075	0.086	0.086
Grid	Grid	Grid
0.102	0.109	0.106
Grid	Grid	Grid

RTS RIM Testing Services	Annex A to Hearing Aid Con Report for BlackBerry® Smar			Page 45(50)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20	CW



RIM Testing Services

Annex A to Hearing Aid Compatibility RF Emissions Test
Report for BlackBerry® Smartphone Model RBU21CW

Author Data
Dates of Test
Daoud Attayi

Dates of Test
Daoud Attayi

Dates of Test
Date

Date/Time: 18/12/2007 7:49:39 PM

Test Laboratory: RTS

File Name: HAC H CDMA1900 spkr cent low chan RC2 SO9 FR.da4

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

Program Name: HAC H Device

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1

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

Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/09/2008

- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007 Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 0.105 A/m; Power Drift = 0.040 dB Maximum value of Total (measured) = 0.136 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement

grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 0.137 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 0.106 A/m

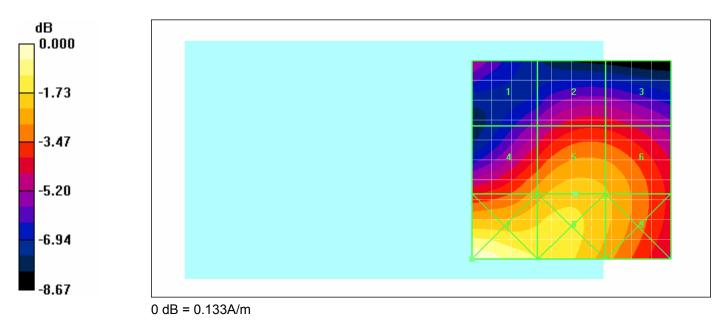
Probe Modulation Factor = 0.980

Reference Value = 0.105 A/m; Power Drift = 0.040 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid	Grid	Grid
0.074	0.083	0.082
Grid	Grid	Grid
0.099	0.106	0.103
Grid	Grid	Grid

RTS RIM Testing Services	Annex A to Hearing Aid Con Report for BlackBerry® Smar			Page 47(50)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20CW	



RTS RIM Testing Services	Annex A to Hearing Aid Cor Report for BlackBerry® Small			Page 48(50)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20CW	

Date/Time: 07/01/2008 11:00:39 AM

Test Laboratory: RTS

File Name: HAC H CDMA1900 spkr cent low chan RC1 SO3 1/8th 01 07 08.da4

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

Program Name: HAC H Device

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:8

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

Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 09/11/2007

- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007
 Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 0.047 A/m; Power Drift = -0.025 dB Maximum value of Total (measured) = 0.048 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 0.115 A/m

Probe Modulation Factor = 2.40

Reference Value = 0.047 A/m; Power Drift = -0.025 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

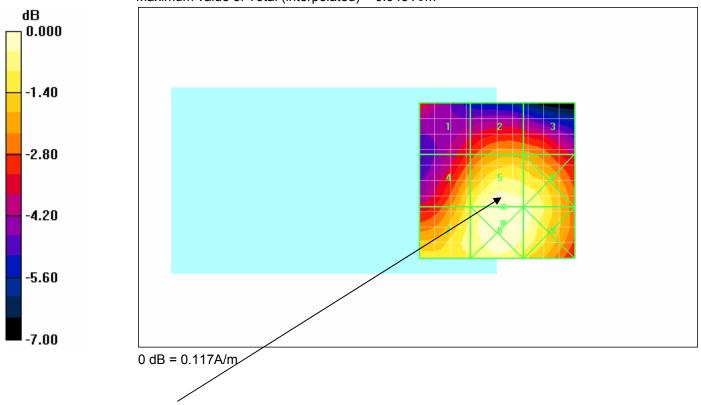
Peak H-field in A/m

Grid	Grid	Grid
0.083	0.093	0.092
Grid	Grid	Grid
0.104	0.115	0.113
Grid	Grid	Grid

RTS RIM Testing Services	Annex A to Hearing Aid Con Report for BlackBerry® Smar			Page 49(50)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20CW	

H Scan - H3DV5 probe tip 10mm above Device Reference/Z Scan (1x1x31):

Measurement grid: dx=20mm, dy=20mm, dz=5mm Maximum value of Total (interpolated) = 0.048 A/m



Location of the probe rotation after applying exclusion blocks

E (delta) = (H max - H at zero degress) * PMF = (0.0497 - 0.0487) * 2.40 = 0.001 * 2.40 = 0.002 A/m

RTS RIM Testing Services	Annex A to Hearing Aid Con Report for BlackBerry® Smar			Page 50(50)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	08-24 Dec, 07 and 07 Jan, 08	RTS-0943-0801-03	L6ARBU20CW	

