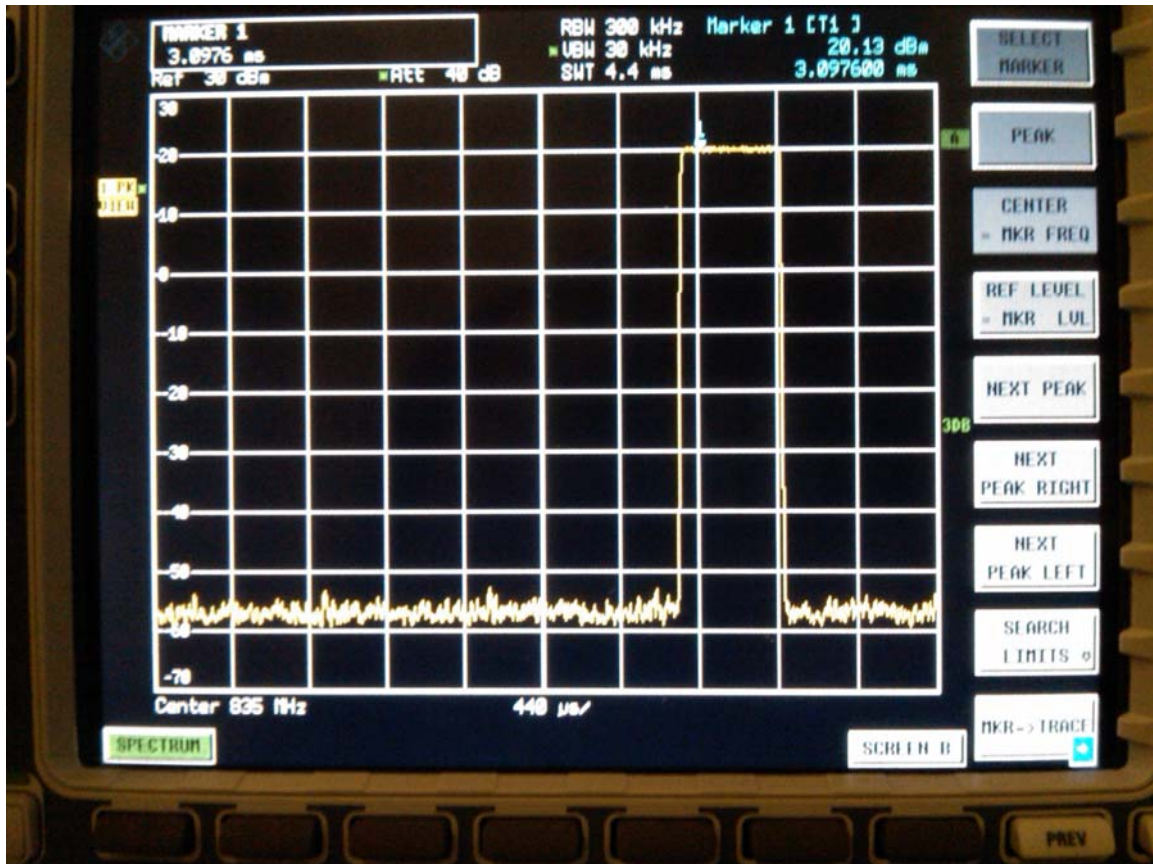

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDH71CW/RDQ71UW		Page 1 (234)
Author Data Daoud Attayi	Dates of Test Jan. 12-19, 2011 April 05-06, 2011	Report No RTS-2605-1102-02B	FCC ID L6ARDH70CW L6ARDQ70UW

Annex A: Measurement data and plots

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




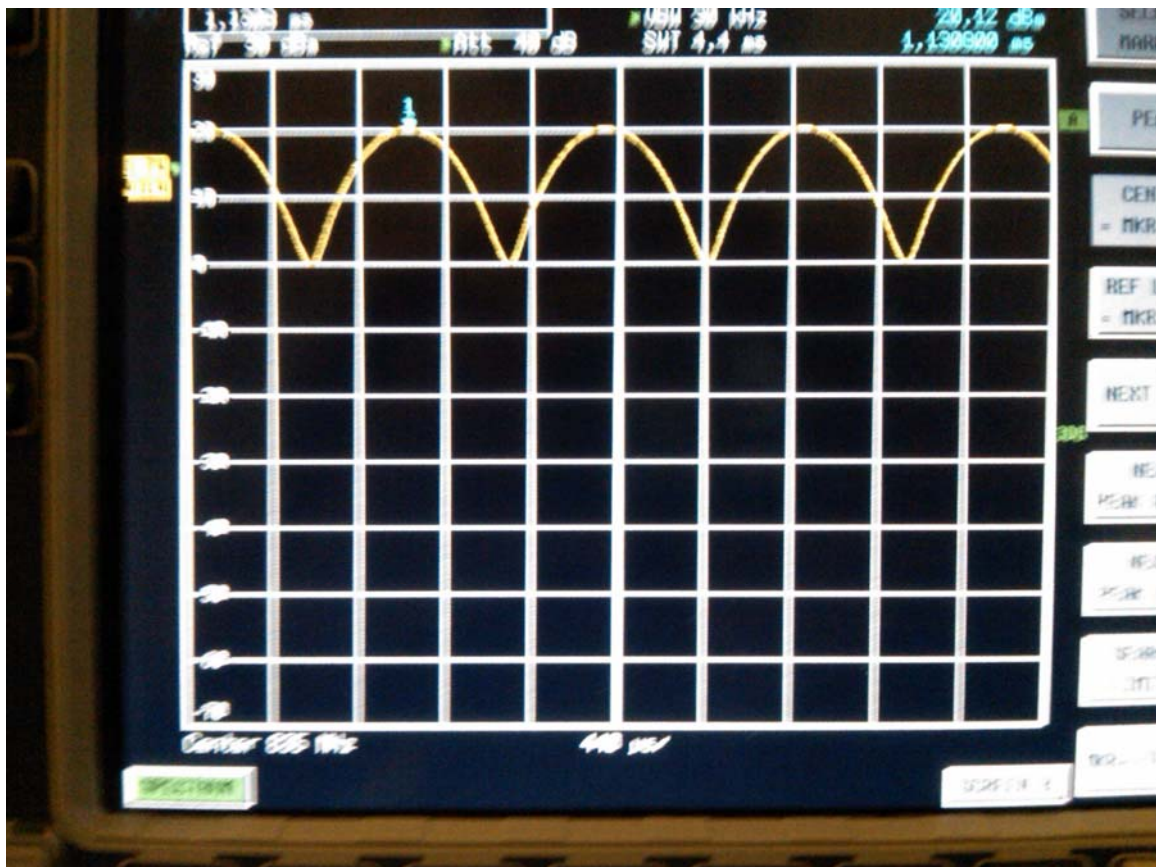
GSM 835 MHz

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Author Data Daoud Attayi	Dates of Test Jan. 12-19, 2011 April 05-06, 2011	Report No RTS-2605-1102-02B	FCC ID L6ARDH70CW L6ARDQ70UW




CW 835 MHz

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AM 80% 835 MHz

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Author Data Daoud Attayi	Dates of Test Jan. 12-19, 2011 April 05-06, 2011	Report No RTS-2605-1102-02B	FCC ID L6ARDH70CW L6ARDQ70UW




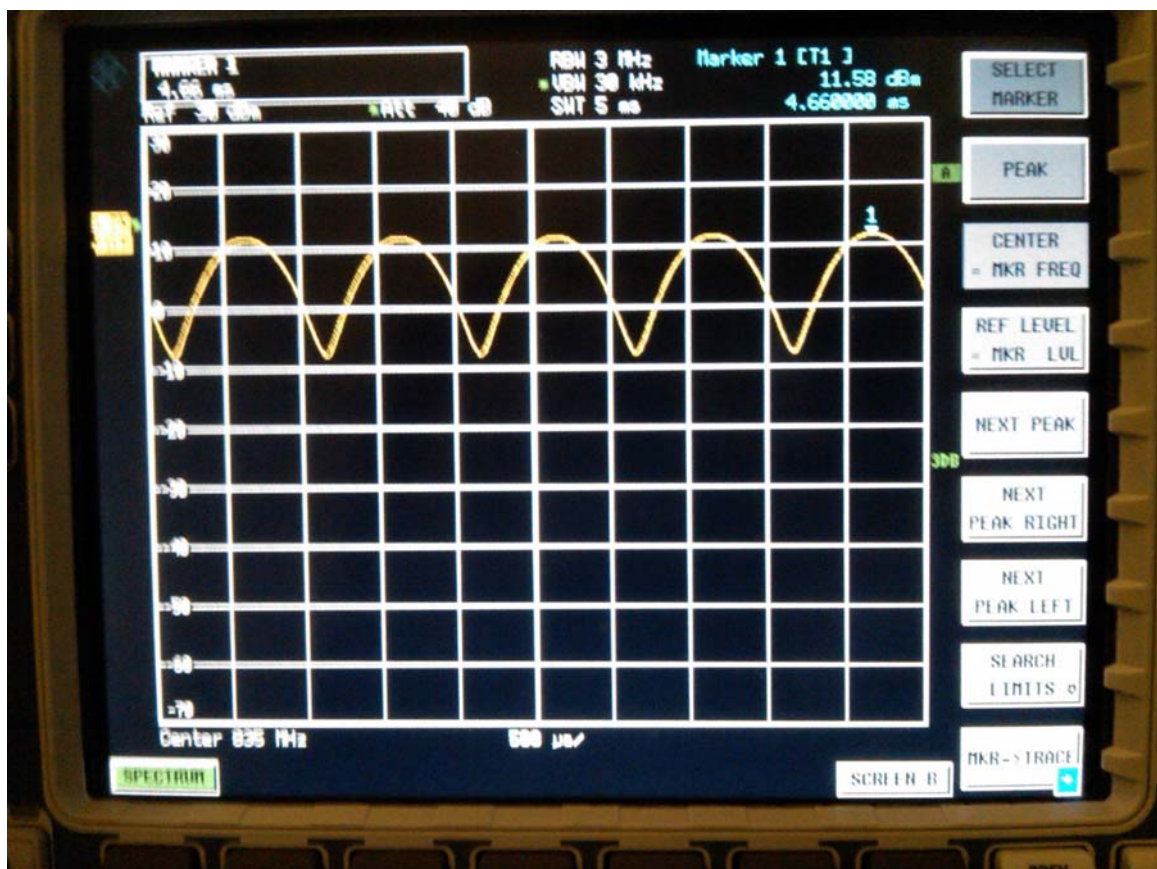
CDMA 835 MHz

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CW 835 MHz

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Author Data Daoud Attayi	Dates of Test Jan. 12-19, 2011 April 05-06, 2011	Report No RTS-2605-1102-02B	FCC ID L6ARDH70CW L6ARDQ70UW




AM 80% 835 MHz

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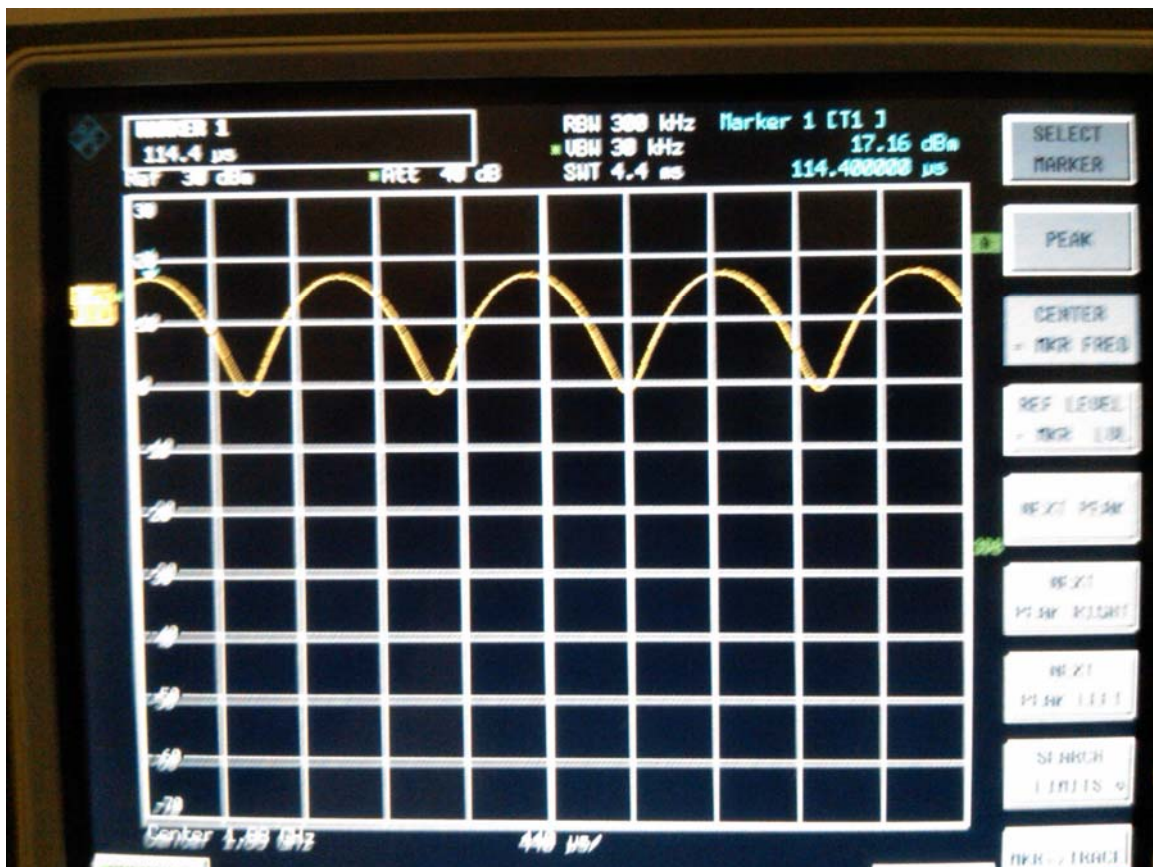
GSM 1880 MHz

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CW 1880 MHz

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AM 80 % 1880 MHz

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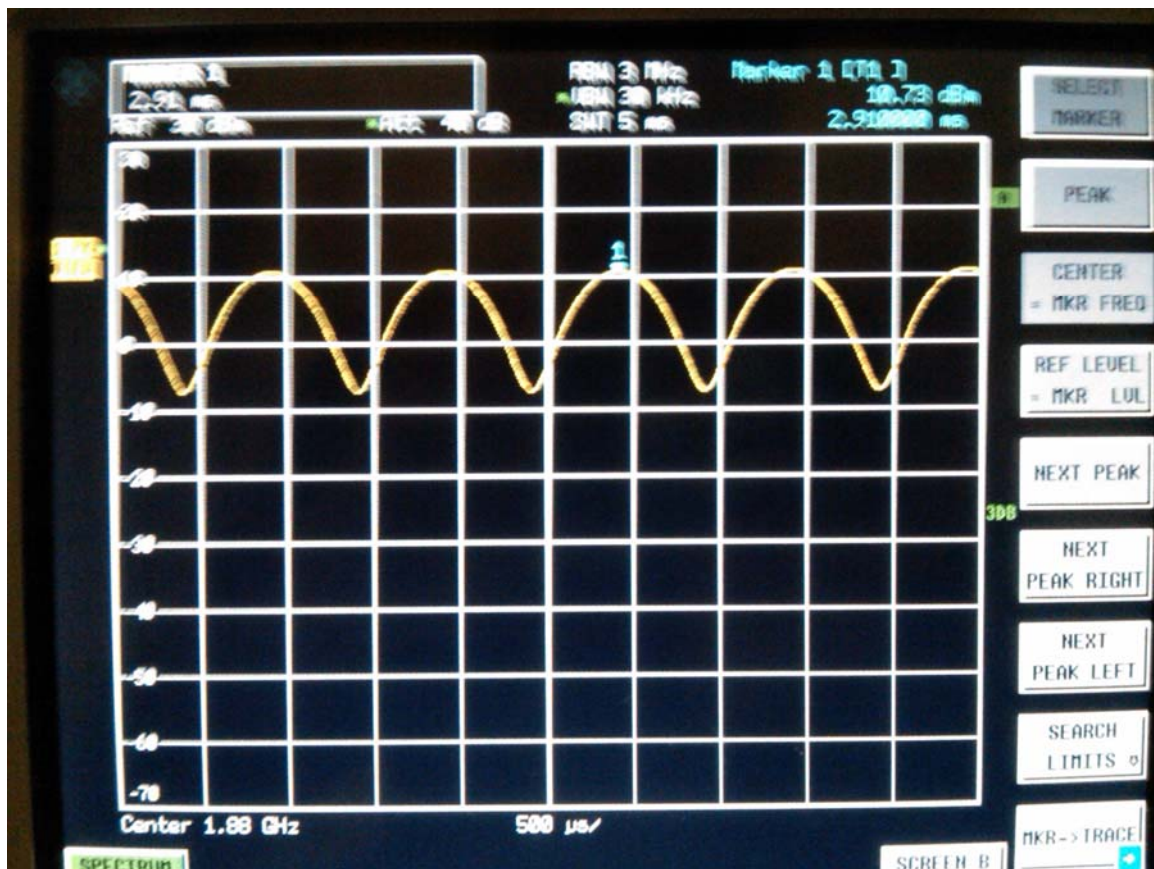
CDMA 1880 MHz

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Author Data Daoud Attayi	Dates of Test Jan. 12-19, 2011 April 05-06, 2011	Report No RTS-2605-1102-02B	FCC ID L6ARDH70CW L6ARDQ70UW




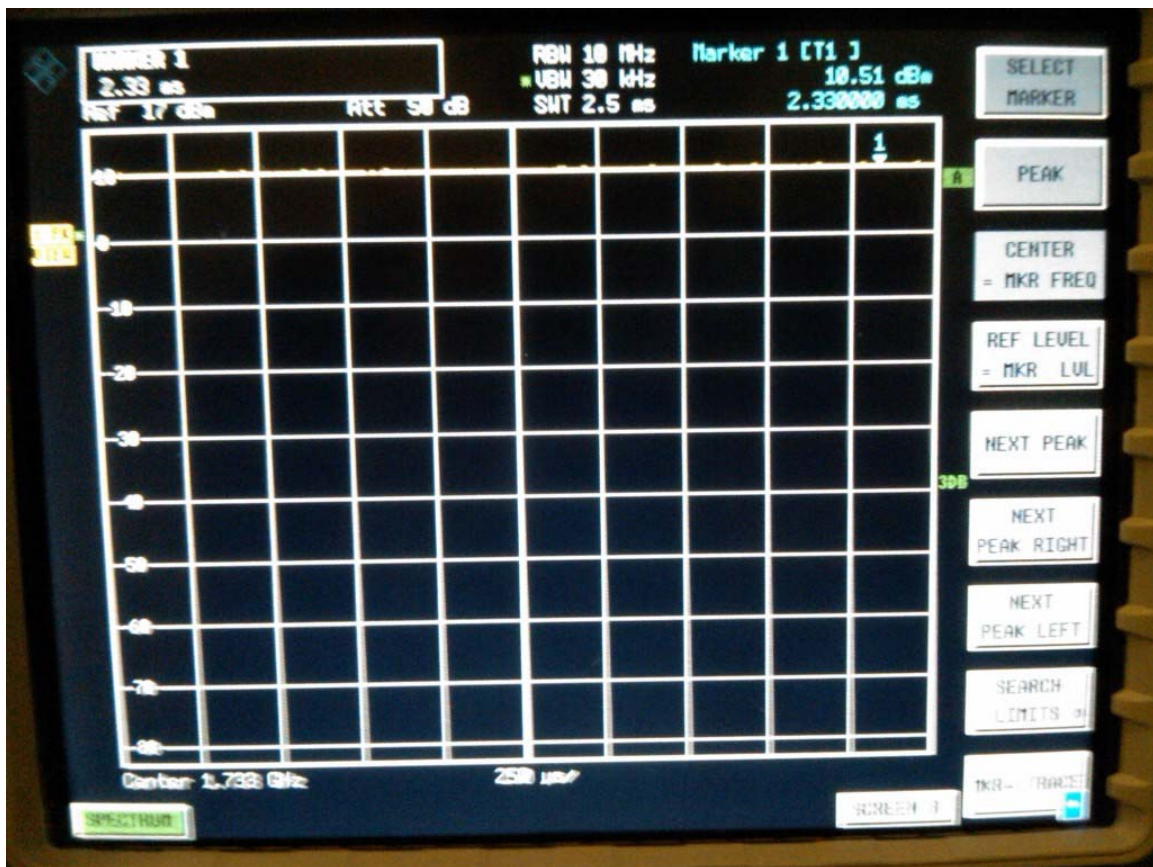
CW 1880 MHz

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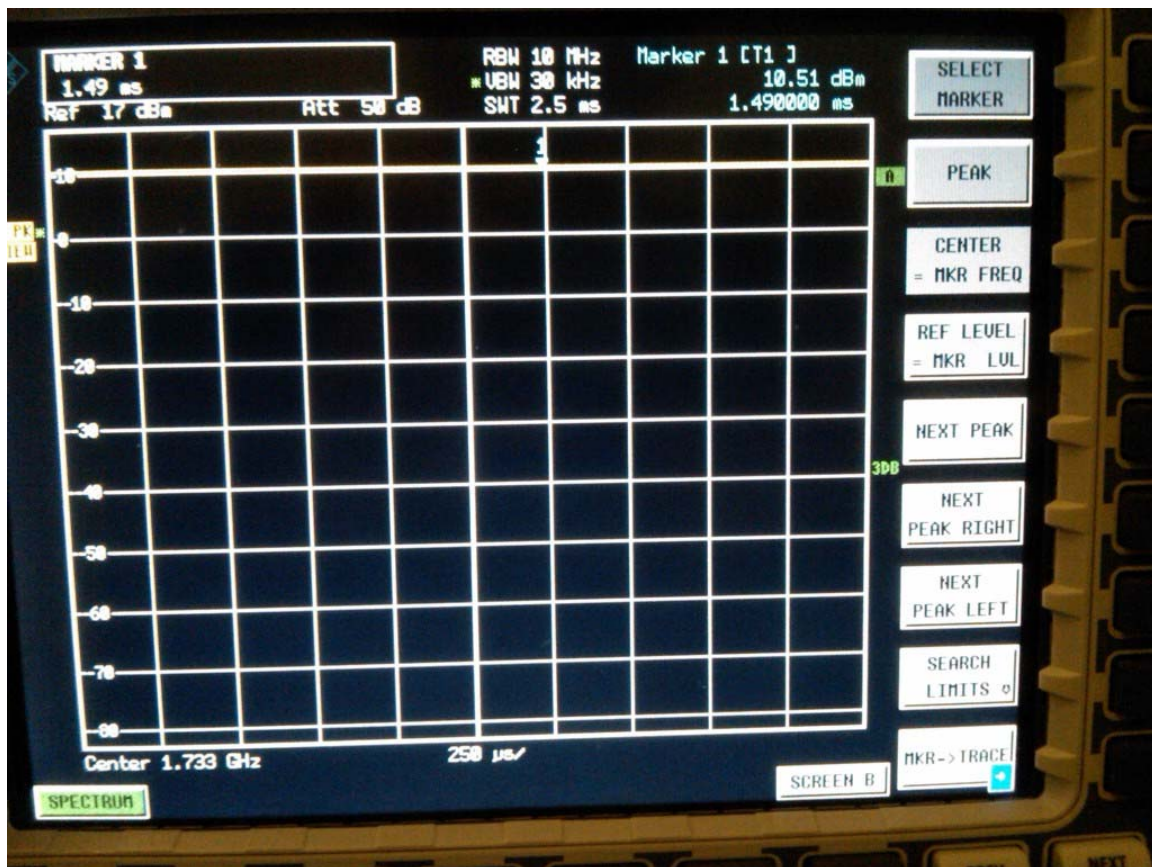
AM 80 % 1880 MHz

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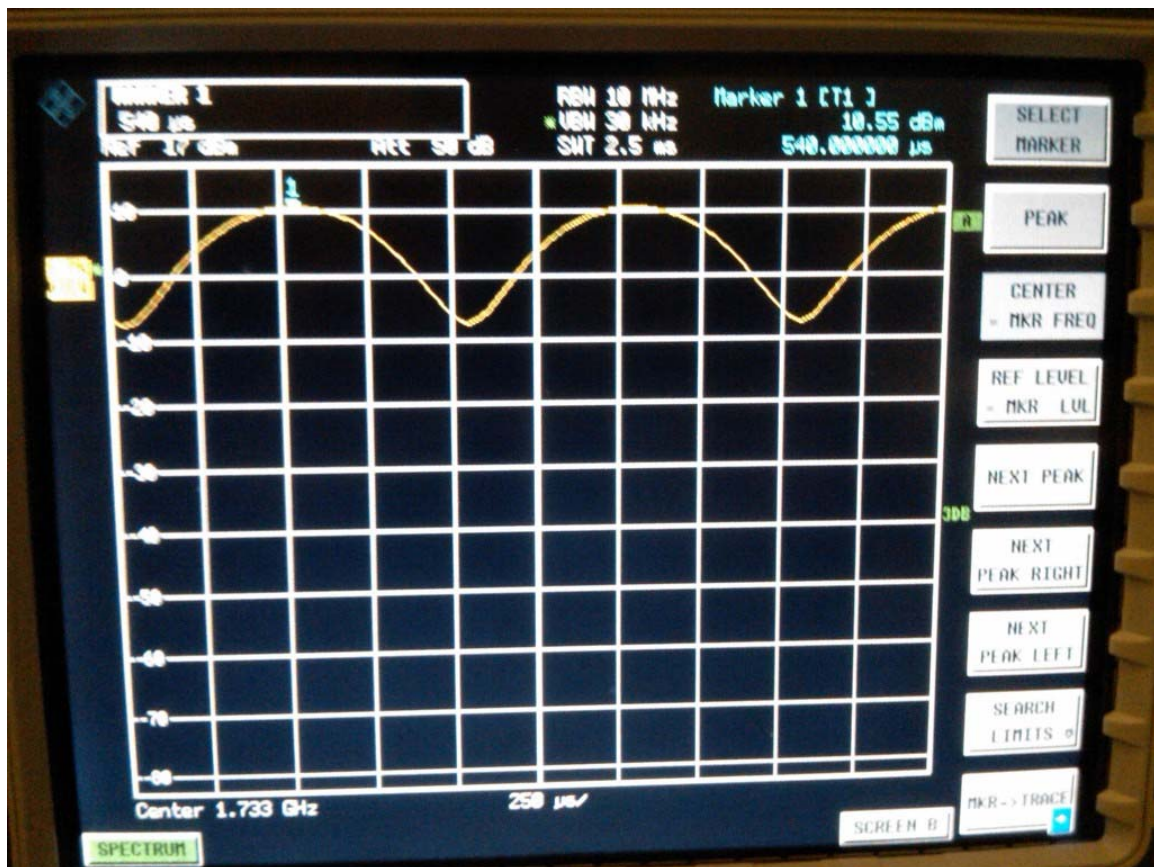
UMTS 1733 MHz

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CW 1733 MHz


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AM 80% 1733 MHz

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A.2 Dipole validation and probe modulation factor plots

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

Test Laboratory: RIM Testing Services

HAC_E_Dipole_835MHz

DUT: HAC-Dipole 835 MHz; Type: D835V3

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

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

Phantom section: RF Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

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

E Scan - measurement distance from the probe sensor center to

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

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

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

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

E Scan - measurement distance from the probe sensor center to

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

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

Maximum value of peak Total field = 169.7 V/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

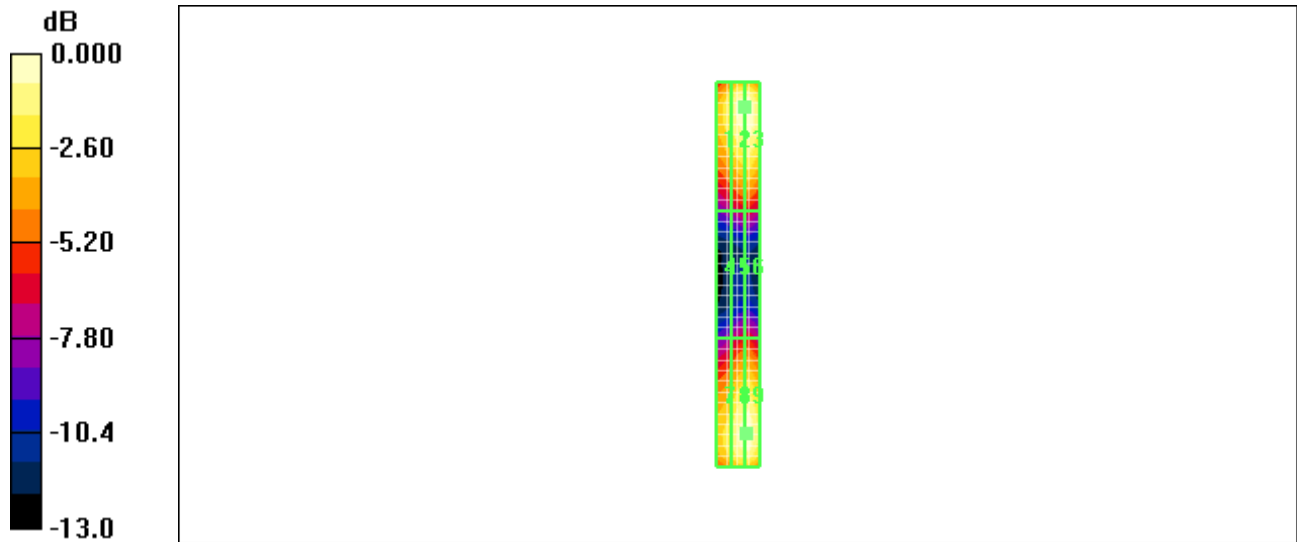
Reference Value = 110.5 V/m; Power Drift = -0.014 dB

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


Peak E-field in V/m

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

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0 dB = 169.7V/m

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

Test Laboratory: RIM Testing Services

HAC_E_Dipole_835MHz_GSM_mod

DUT: HAC-Dipole 835 MHz; Type: D835V3

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

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

Phantom section: RF Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

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

E Scan - measurement distance from the probe sensor center to

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

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

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

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

E Scan - measurement distance from the probe sensor center to

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

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

Maximum value of peak Total field = 55.1 V/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

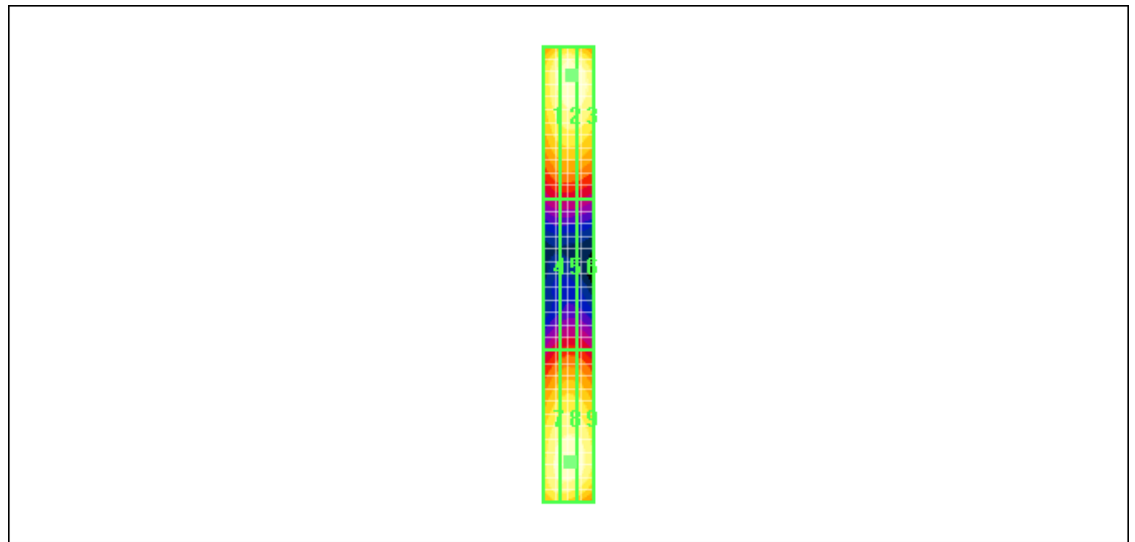
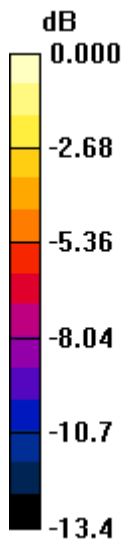
Reference Value = 39.7 V/m; Power Drift = -0.029 dB

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


Peak E-field in V/m

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

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0 dB = 55.1V/m

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

Test Laboratory: RIM Testing Services

HAC_E_Dipole_835MHz_CW_GSM_mod

DUT: HAC-Dipole 835 MHz; Type: D835V3

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

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

Phantom section: RF Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

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

E Scan - measurement distance from the probe sensor center to

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

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

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

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

E Scan - measurement distance from the probe sensor center to

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

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

Maximum value of peak Total field = 159.9 V/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

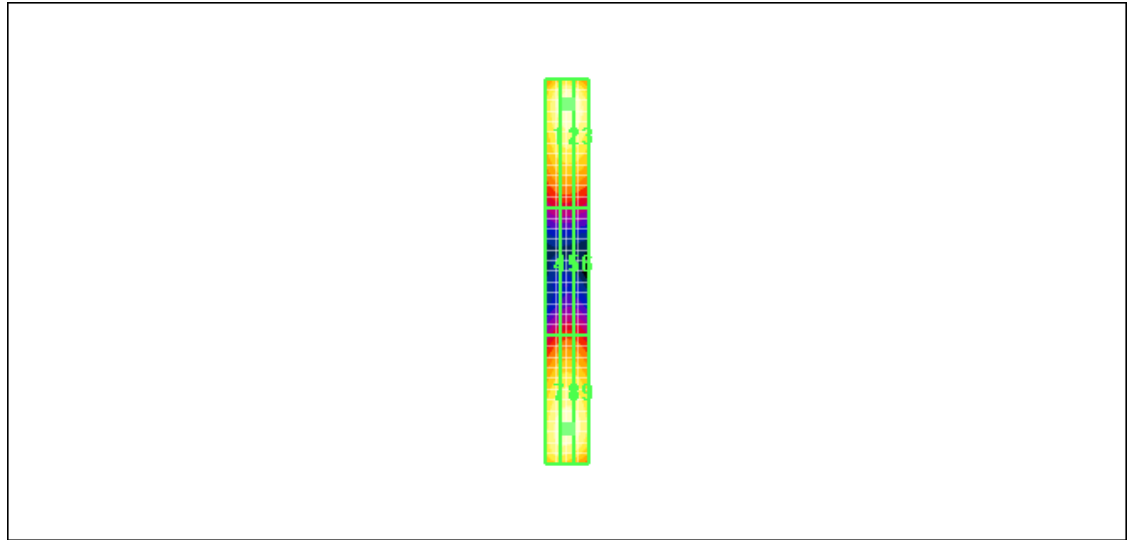
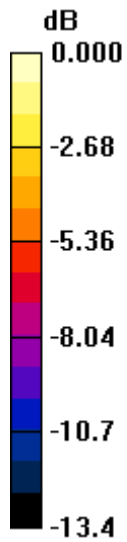
Reference Value = 115.7 V/m; Power Drift = 0.021 dB

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


Peak E-field in V/m

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

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0 dB = 159.9V/m

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

Test Laboratory: RIM Testing Services

HAC_E_Dipole_835MHz_AM80%_GSM_mod

DUT: HAC-Dipole 835 MHz; Type: D835V3

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

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

Phantom section: RF Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

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

E Scan - measurement distance from the probe sensor center to

CD835 Dipole = 10mm 2/Hearing Aid Compatibility Test (5x5x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

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

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

E Scan - measurement distance from the probe sensor center to

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

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

Maximum value of peak Total field = 81.1 V/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

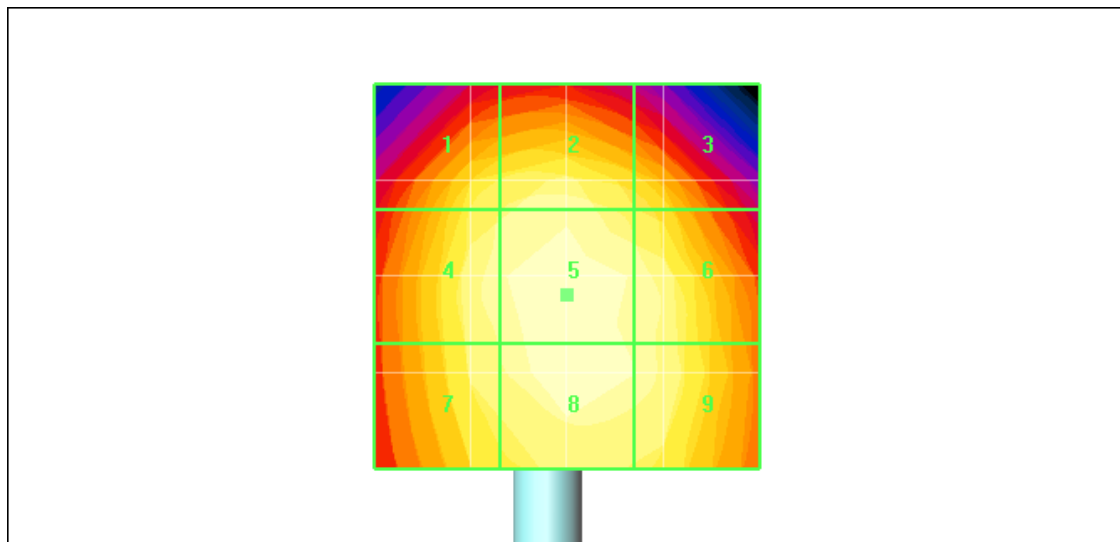
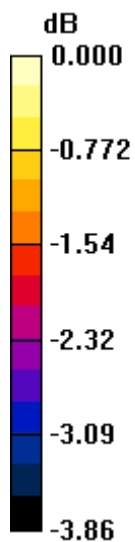
Reference Value = 72.4 V/m; Power Drift = 0.041 dB

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


Peak E-field in V/m

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

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0 dB = 81.1V/m

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

Test Laboratory: RIM Testing Services

HAC_E_Dipole_835MHz_CDMA_mod

DUT: HAC-Dipole 835 MHz; Type: D835V3

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

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

Phantom section: RF Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

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

E Scan - measurement distance from the probe sensor center to

CD835 Dipole = 10mm 2/Hearing Aid Compatibility Test (5x5x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

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

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

E Scan - measurement distance from the probe sensor center to

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

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

Maximum value of peak Total field = 48.7 V/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

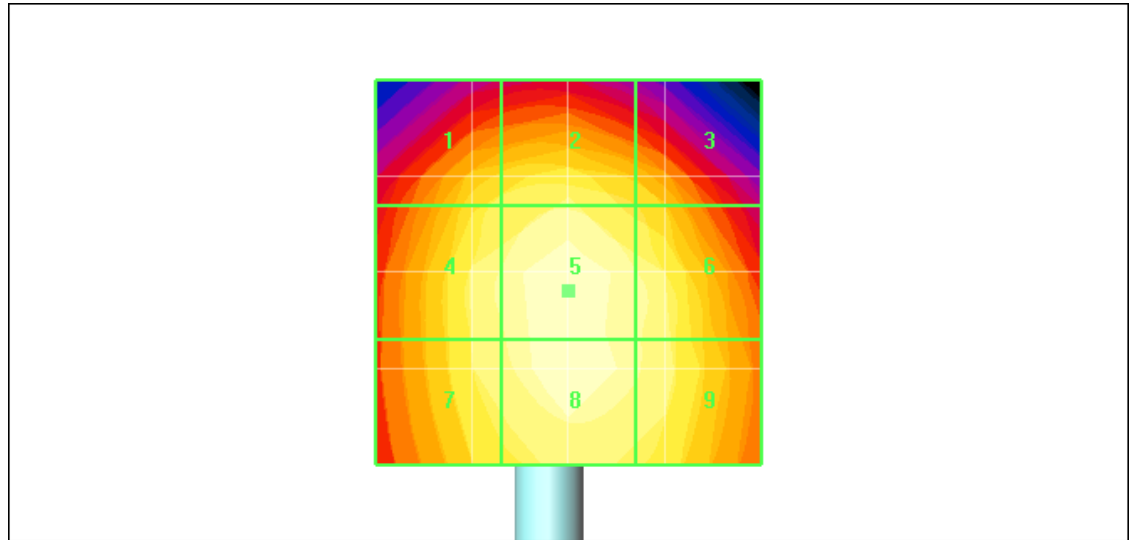
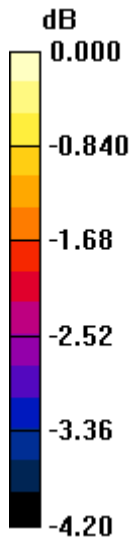
Reference Value = 43.0 V/m; Power Drift = -0.052 dB

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


Peak E-field in V/m

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

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0 dB = 48.7V/m

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

Test Laboratory: RIM Testing Services

HAC_E_Dipole_835MHz_CW_CDMA_mod

DUT: HAC-Dipole 835 MHz; Type: D835V3

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

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

Phantom section: RF Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

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

E Scan - measurement distance from the probe sensor center to

CD835 Dipole = 10mm 2/Hearing Aid Compatibility Test (5x5x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

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

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

E Scan - measurement distance from the probe sensor center to

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDH71CW/RDQ71UW		Page 33 (234)
Author Data Daoud Attayi	Dates of Test Jan. 12-19, 2011 April 05-06, 2011	Report No RTS-2605-1102-02B	FCC ID L6ARDH70CW L6ARDQ70UW

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

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

Maximum value of peak Total field = 49.2 V/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

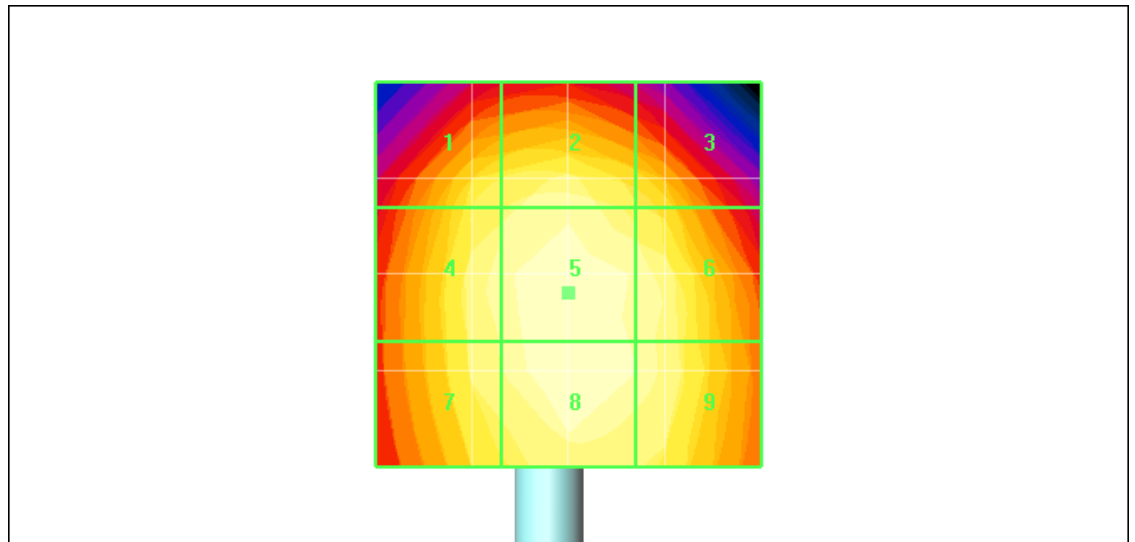
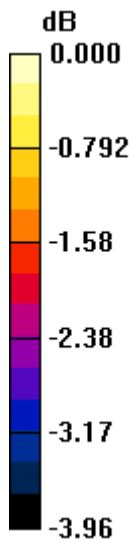
Reference Value = 44.6 V/m; Power Drift = -0.104 dB

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


Peak E-field in V/m

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

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Author Data Daoud Attayi	Dates of Test Jan. 12-19, 2011 April 05-06, 2011	Report No RTS-2605-1102-02B	FCC ID L6ARDH70CW L6ARDQ70UW	



0 dB = 49.2V/m

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

Test Laboratory: RIM Testing Services

HAC_E_Dipole_835MHz_AM80%_CDMA

DUT: HAC-Dipole 835 MHz; Type: D835V3

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

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

Phantom section: RF Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

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

E Scan - measurement distance from the probe sensor center to

CD835 Dipole = 10mm 2/Hearing Aid Compatibility Test (5x5x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

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

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

E Scan - measurement distance from the probe sensor center to

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

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

Maximum value of peak Total field = 31.3 V/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

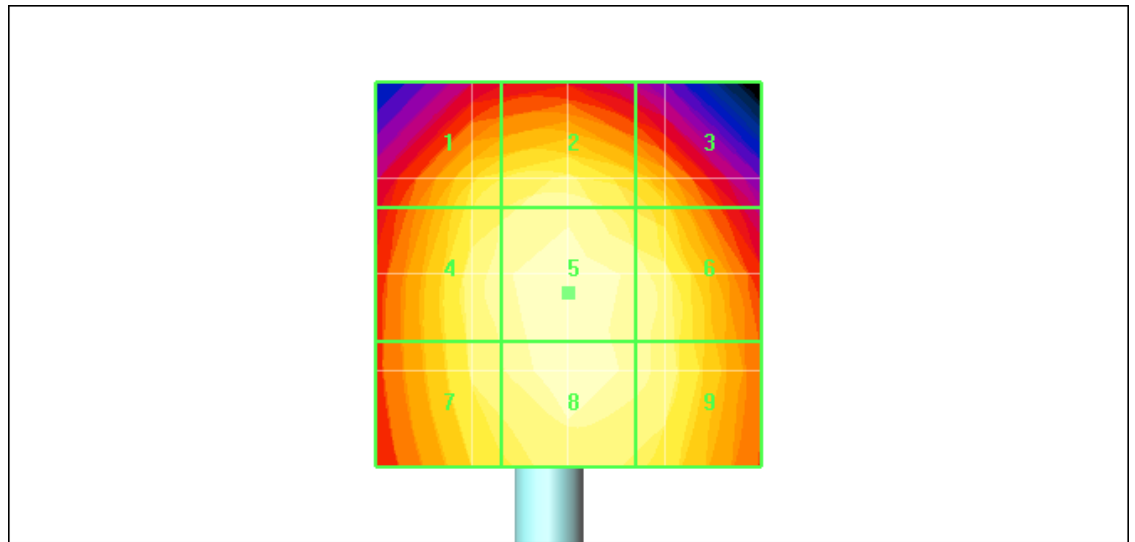
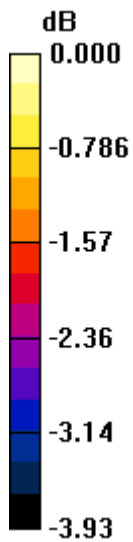
Reference Value = 28.3 V/m; Power Drift = -0.092 dB

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


Peak E-field in V/m

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

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0 dB = 31.3V/m

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

Test Laboratory: RIM Testing Services

HAC_E_Dipole_1880MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

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

Phantom section: RF Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

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

E Scan - measurement distance from the probe sensor center to

CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (5x19x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

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

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

E Scan - measurement distance from the probe sensor center to

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

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

Maximum value of peak Total field = 127.8 V/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

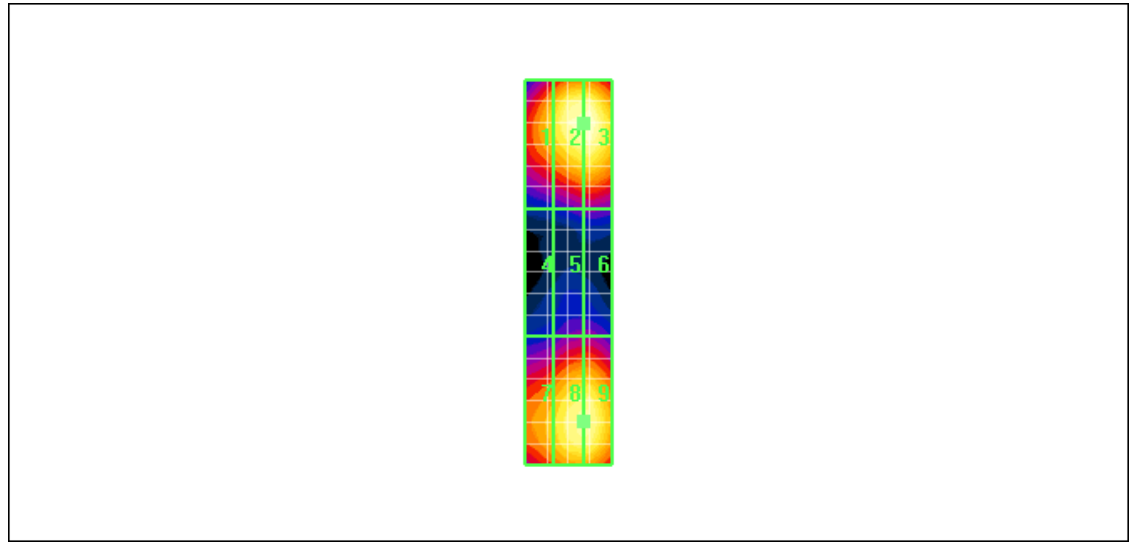
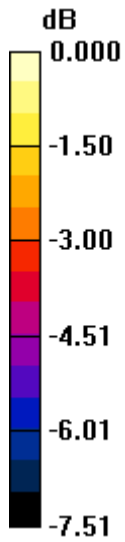
Reference Value = 128.4 V/m; Power Drift = -0.030 dB

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


Peak E-field in V/m

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

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Author Data Daoud Attayi	Dates of Test Jan. 12-19, 2011 April 05-06, 2011	Report No RTS-2605-1102-02B	FCC ID L6ARDH70CW L6ARDQ70UW



0 dB = 127.8V/m

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

Test Laboratory: RIM Testing Services

HAC_E_Dipole_1880MHz_GSM_mod

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

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

Phantom section: RF Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

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

E Scan - measurement distance from the probe sensor center to

CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (5x19x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

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

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

E Scan - measurement distance from the probe sensor center to

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

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

Maximum value of peak Total field = 30.2 V/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

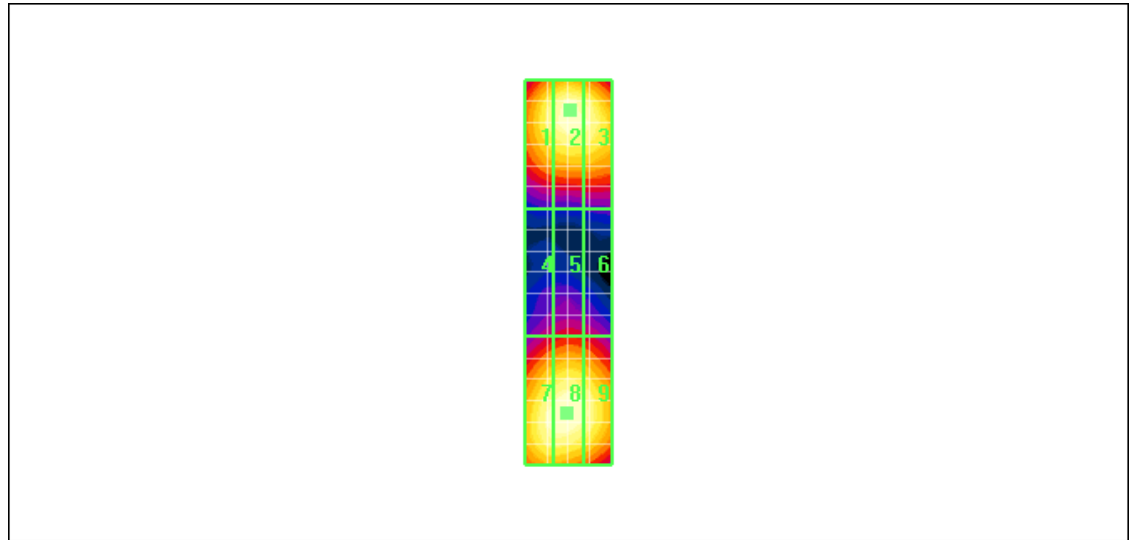
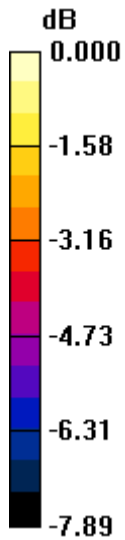
Reference Value = 30.3 V/m; Power Drift = -0.038 dB

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


Peak E-field in V/m

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

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0 dB = 30.2V/m

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

Test Laboratory: RIM Testing Services

HAC_E_Dipole_1880MHz_CW_GSM_mod

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

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

Phantom section: RF Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

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

E Scan - measurement distance from the probe sensor center to

CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (5x19x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

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

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

E Scan - measurement distance from the probe sensor center to

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Author Data Daoud Attayi	Dates of Test Jan. 12-19, 2011 April 05-06, 2011	Report No RTS-2605-1102-02B	FCC ID L6ARDH70CW L6ARDQ70UW

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

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

Maximum value of peak Total field = 87.6 V/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

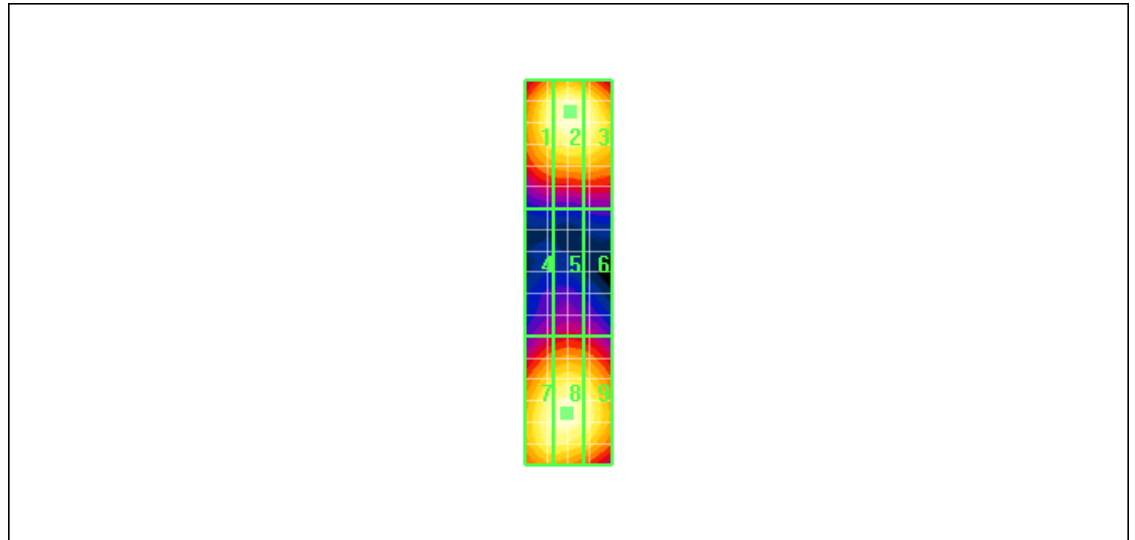
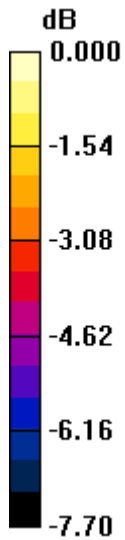
Reference Value = 86.9 V/m; Power Drift = 0.001 dB

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


Peak E-field in V/m

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

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0 dB = 87.6V/m

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

Test Laboratory: RIM Testing Services

HAC_E_Dipole_1880MHz_AM80%_GSM

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

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

Phantom section: RF Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

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

E Scan - measurement distance from the probe sensor center to

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

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

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

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

E Scan - measurement distance from the probe sensor center to

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

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

Maximum value of peak Total field = 45.2 V/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

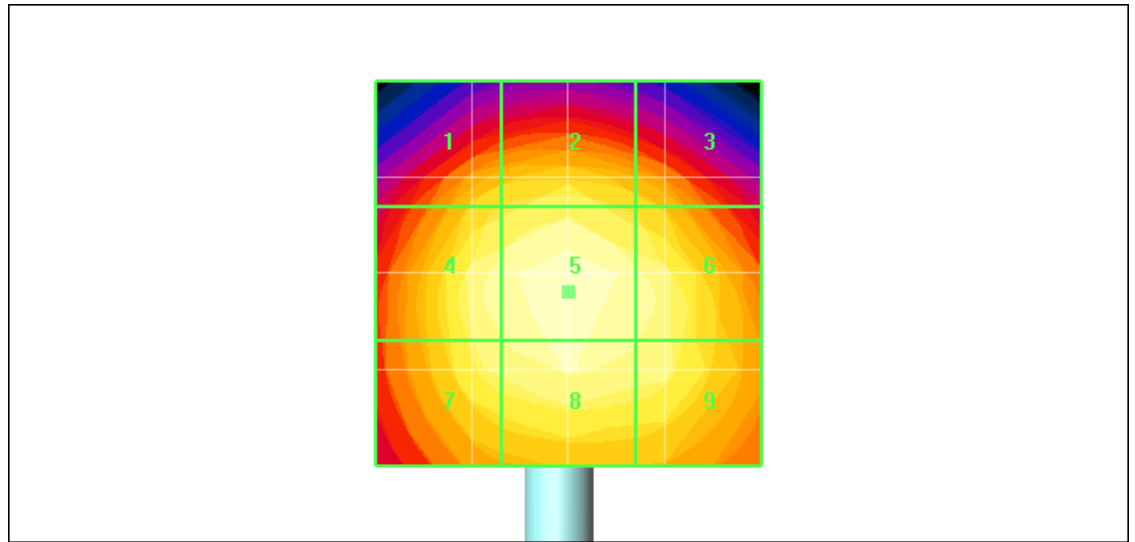
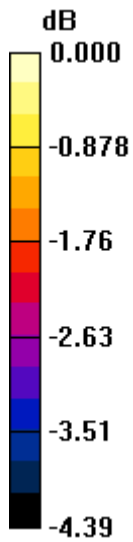
Reference Value = 55.5 V/m; Power Drift = 0.016 dB

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


Peak E-field in V/m

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

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0 dB = 45.2V/m

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

Test Laboratory: RIM Testing Services

HAC_E_Dipole_1880MHz_CDMA_mod

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

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

Phantom section: RF Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

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

E Scan - measurement distance from the probe sensor center to

CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (5x19x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

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

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

E Scan - measurement distance from the probe sensor center to

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Author Data Daoud Attayi	Dates of Test Jan. 12-19, 2011 April 05-06, 2011	Report No RTS-2605-1102-02B	FCC ID L6ARDH70CW L6ARDQ70UW

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

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

Maximum value of peak Total field = 42.2 V/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

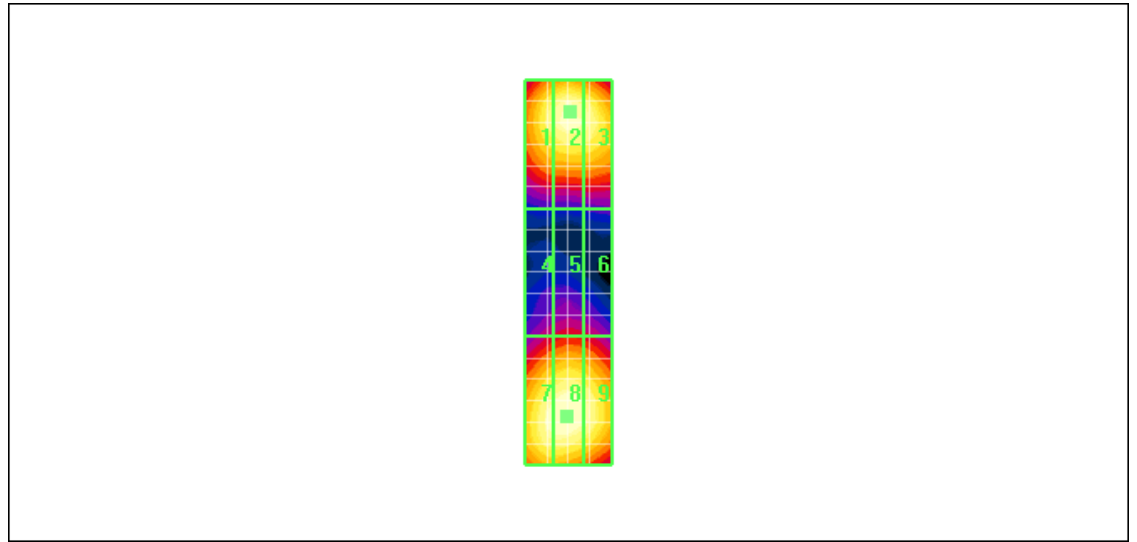
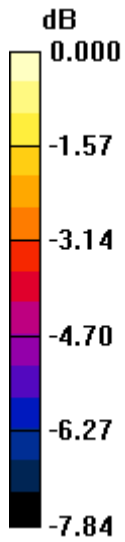
Reference Value = 43.0 V/m; Power Drift = -0.010 dB

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


Peak E-field in V/m

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

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0 dB = 42.2V/m

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

Test Laboratory: RIM Testing Services

HAC_E_Dipole_1880MHz_CW_CDMA_mod

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

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

Phantom section: RF Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

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

E Scan - measurement distance from the probe sensor center to

CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (5x19x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

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

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

E Scan - measurement distance from the probe sensor center to

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

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

Maximum value of peak Total field = 42.1 V/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

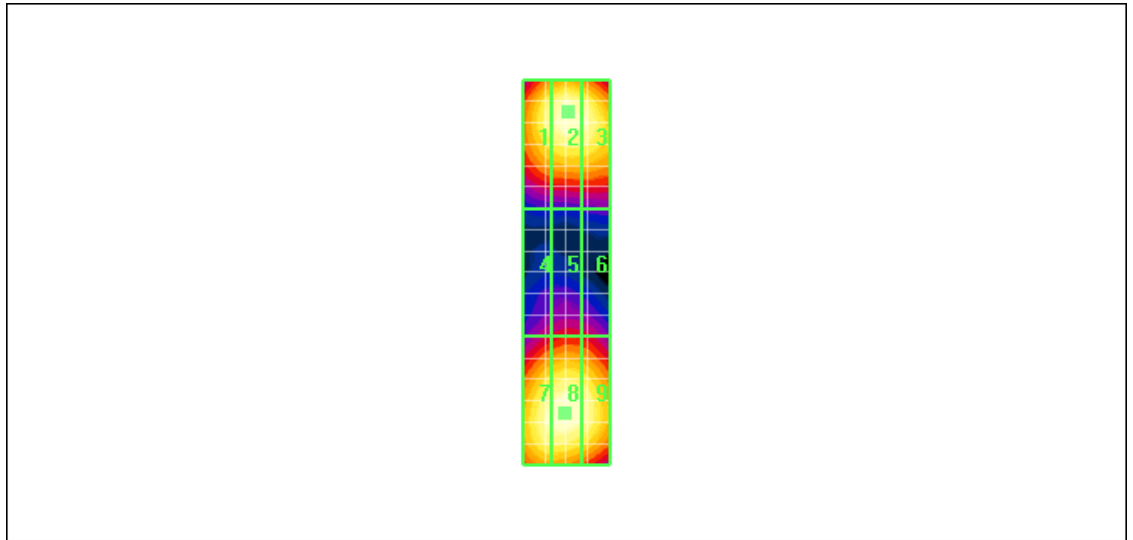
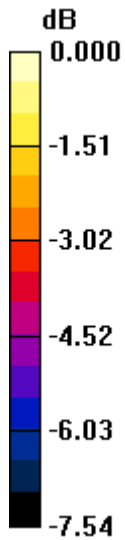
Reference Value = 42.2 V/m; Power Drift = -0.002 dB

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


Peak E-field in V/m

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

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Author Data Daoud Attayi	Dates of Test Jan. 12-19, 2011 April 05-06, 2011	Report No RTS-2605-1102-02B	FCC ID L6ARDH70CW L6ARDQ70UW



0 dB = 42.1V/m

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

Test Laboratory: RIM Testing Services

HAC_E_Dipole_1880MHz_AM80%_CDMA

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

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

Phantom section: RF Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

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

E Scan - measurement distance from the probe sensor center to

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

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

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

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

E Scan - measurement distance from the probe sensor center to

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

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

Maximum value of peak Total field = 22.0 V/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

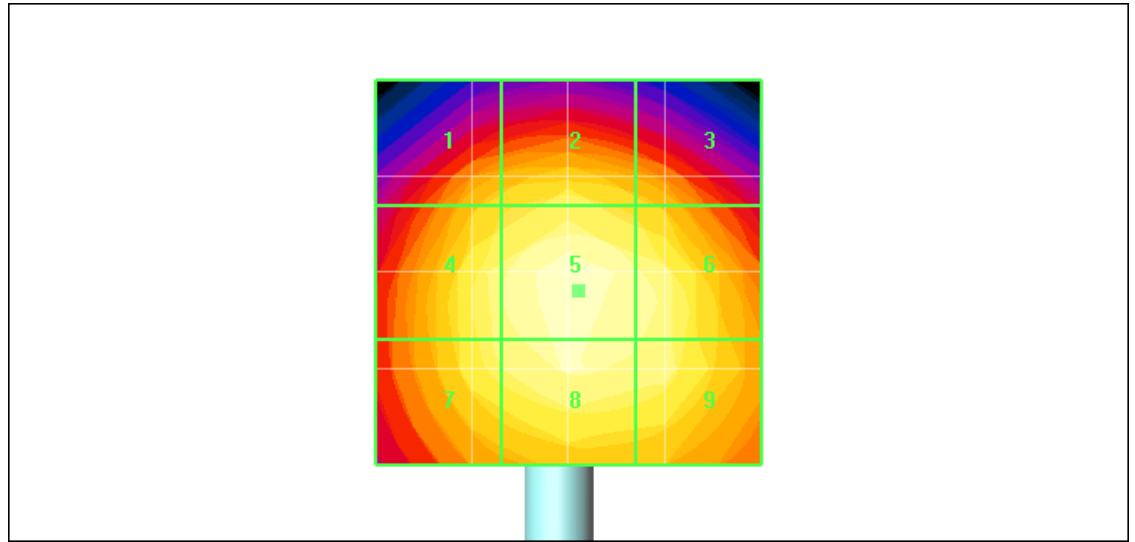
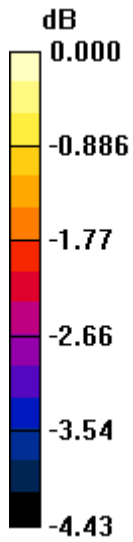
Reference Value = 27.0 V/m; Power Drift = 0.044 dB

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


Peak E-field in V/m

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

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0 dB = 22.0V/m

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

Test Laboratory: RIM Testing Services

HAC_H_Dipole_835MHz

DUT: HAC-Dipole 835 MHz; Type: D835V3

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

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

Phantom section: RF Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

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

H Scan - measurement distance from the probe sensor center to

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

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

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

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

H Scan - measurement distance from the probe sensor center to

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

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

Maximum value of peak Total field = 0.467 A/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

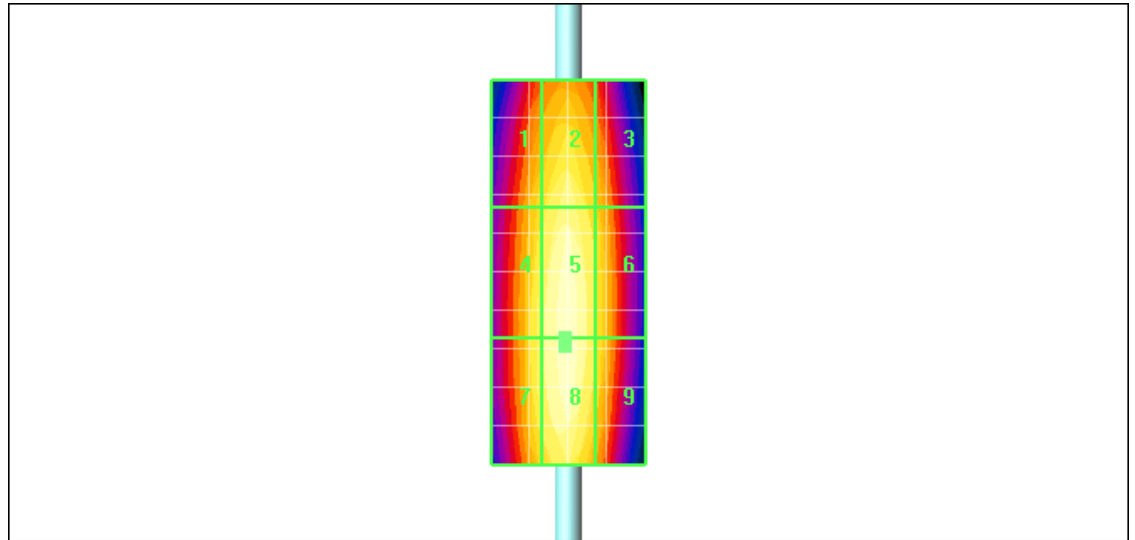
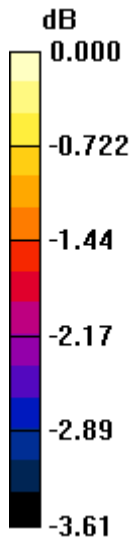
Reference Value = 0.497 A/m; Power Drift = -0.014 dB

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


Peak H-field in A/m

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

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0 dB = 0.467A/m

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

Test Laboratory: RIM Testing Services

HAC_H_Dipole_835MHz_GSM_mod

DUT: HAC-Dipole 835 MHz; Type: D835V3

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

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

Phantom section: RF Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

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

H Scan - measurement distance from the probe sensor center to

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

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

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

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

H Scan - measurement distance from the probe sensor center to

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

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

Maximum value of peak Total field = 0.164 A/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

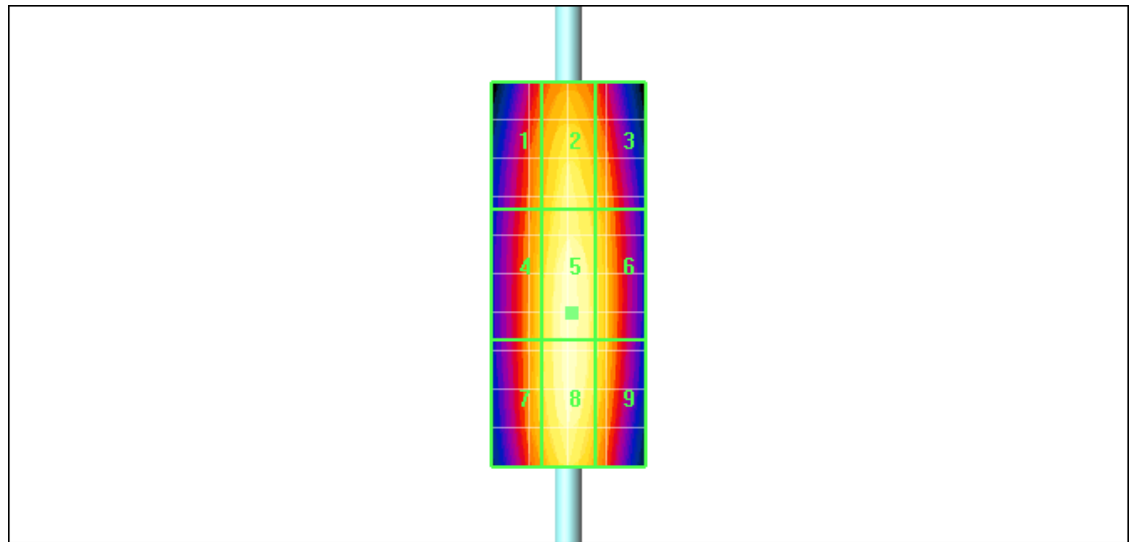
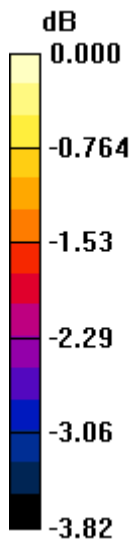
Reference Value = 0.174 A/m; Power Drift = -0.012 dB

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


Peak H-field in A/m

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

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0 dB = 0.164A/m

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

Test Laboratory: RIM Testing Services

HAC_H_Dipole_835MHz_CW_GSM_mod

DUT: HAC-Dipole 835 MHz; Type: D835V3

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

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

Phantom section: RF Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

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

H Scan - measurement distance from the probe sensor center to

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

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

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

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

H Scan - measurement distance from the probe sensor center to

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

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

Maximum value of peak Total field = 0.458 A/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

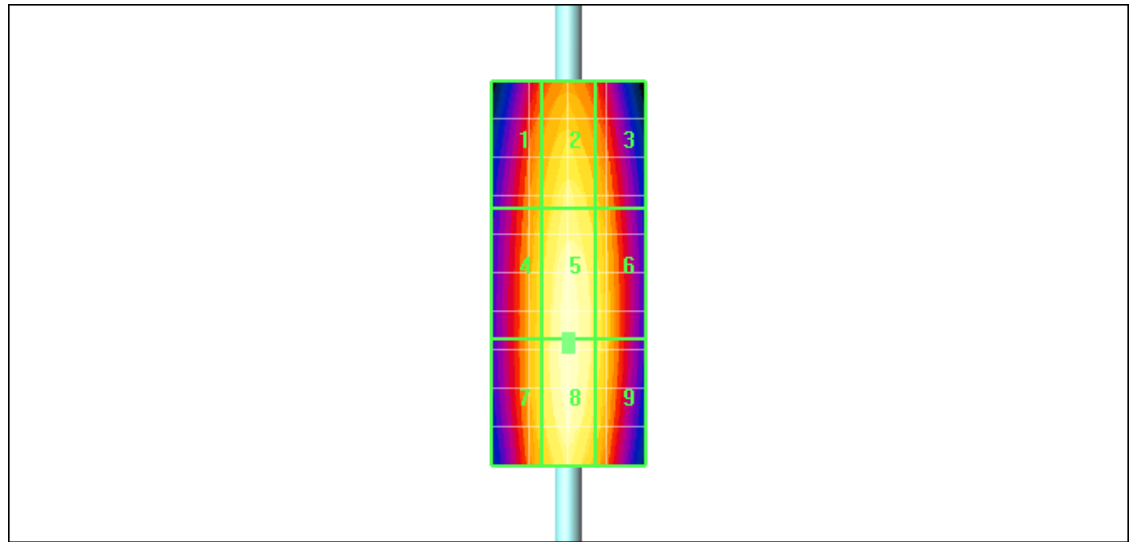
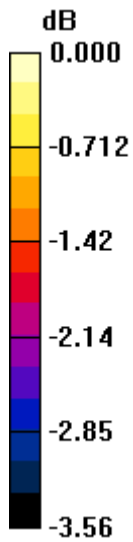
Reference Value = 0.483 A/m; Power Drift = -0.026 dB

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


Peak H-field in A/m

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

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0 dB = 0.458A/m

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

Test Laboratory: RIM Testing Services

HAC_H_Dipole_835MHz_AM80%_GSM_mod

DUT: HAC-Dipole 835 MHz; Type: D835V3

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

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

Phantom section: RF Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

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

H Scan - measurement distance from the probe sensor center to

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

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

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

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

H Scan - measurement distance from the probe sensor center to

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

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

Maximum value of peak Total field = 0.289 A/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

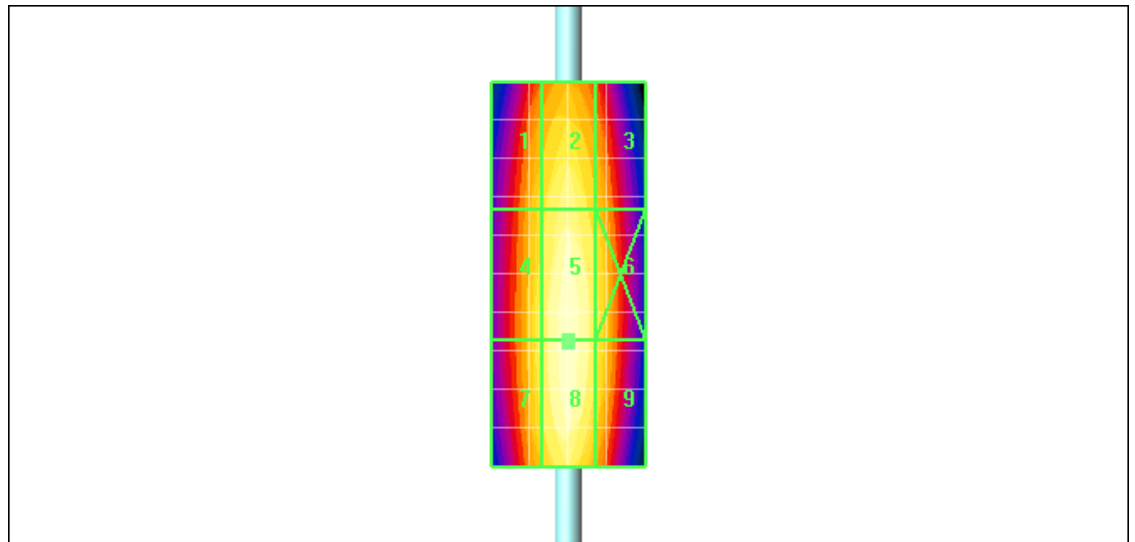
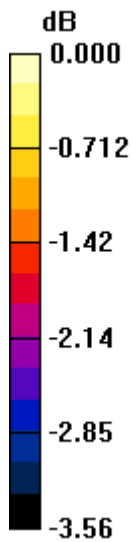
Reference Value = 0.306 A/m; Power Drift = -0.043 dB

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


Peak H-field in A/m

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

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0 dB = 0.289A/m

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

Test Laboratory: RIM Testing Services

HAC_H_Dipole_835MHz_CDMA_mod

DUT: HAC-Dipole 835 MHz; Type: D835V3

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

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

Phantom section: RF Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

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

H Scan - measurement distance from the probe sensor center to

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

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

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

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

H Scan - measurement distance from the probe sensor center to

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

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

Maximum value of peak Total field = 0.170 A/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

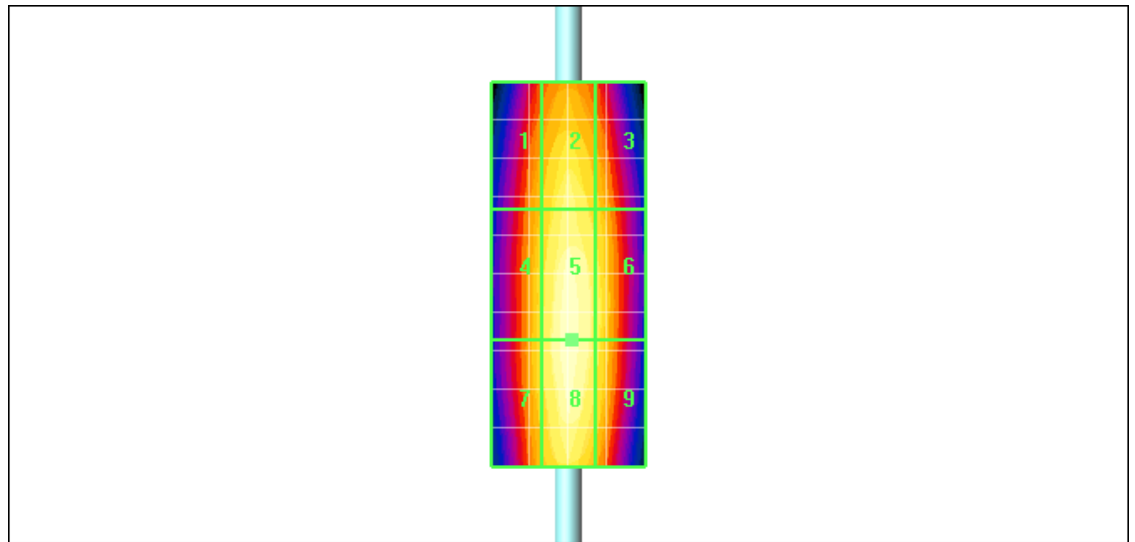
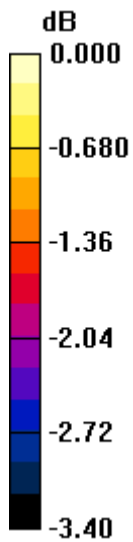
Reference Value = 0.179 A/m; Power Drift = -0.011 dB

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


Peak H-field in A/m

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

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0 dB = 0.170A/m

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

Test Laboratory: RIM Testing Services

HAC_H_Dipole_835MHz_CW_CDMA_mod

DUT: HAC-Dipole 835 MHz; Type: D835V3

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

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

Phantom section: RF Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

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

H Scan - measurement distance from the probe sensor center to

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

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

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

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

H Scan - measurement distance from the probe sensor center to

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

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

Maximum value of peak Total field = 0.172 A/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

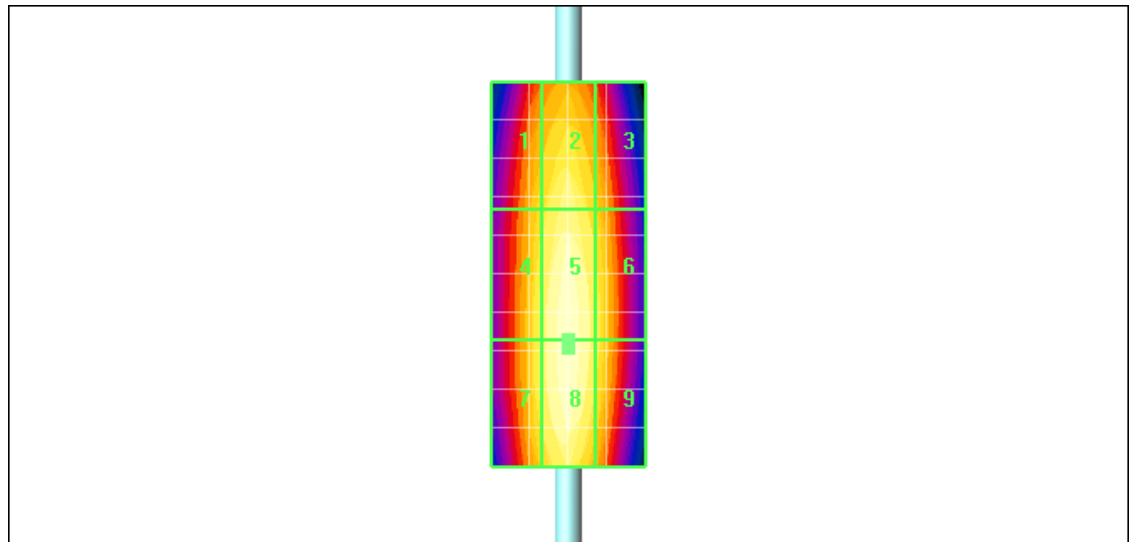
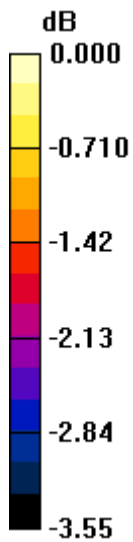
Reference Value = 0.181 A/m; Power Drift = -0.057 dB

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


Peak H-field in A/m

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

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0 dB = 0.172A/m

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

Test Laboratory: RIM Testing Services

HAC_H_Dipole_835MHz_AM80%_CDMA_mod

DUT: HAC-Dipole 835 MHz; Type: D835V3

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

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

Phantom section: RF Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

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

H Scan - measurement distance from the probe sensor center to

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

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

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

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

H Scan - measurement distance from the probe sensor center to

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Author Data Daoud Attayi	Dates of Test Jan. 12-19, 2011 April 05-06, 2011	Report No RTS-2605-1102-02B	FCC ID L6ARDH70CW L6ARDQ70UW

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

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

Maximum value of peak Total field = 0.110 A/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

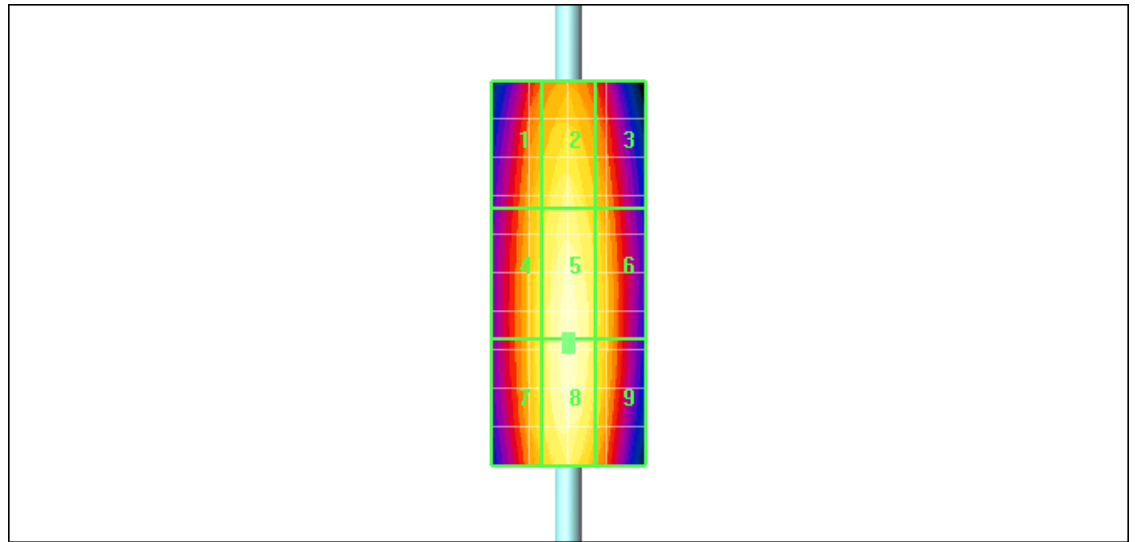
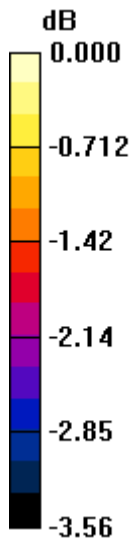
Reference Value = 0.116 A/m; Power Drift = -0.014 dB

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


Peak H-field in A/m

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

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0 dB = 0.110A/m

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

Test Laboratory: RIM Testing Services

HAC_H_Dipole_1880MHz_

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

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

Phantom section: RF Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

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

H Scan - measurement distance from the probe sensor center to

CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (5x11x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

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

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

H Scan - measurement distance from the probe sensor center to

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

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

Maximum value of peak Total field = 0.450 A/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

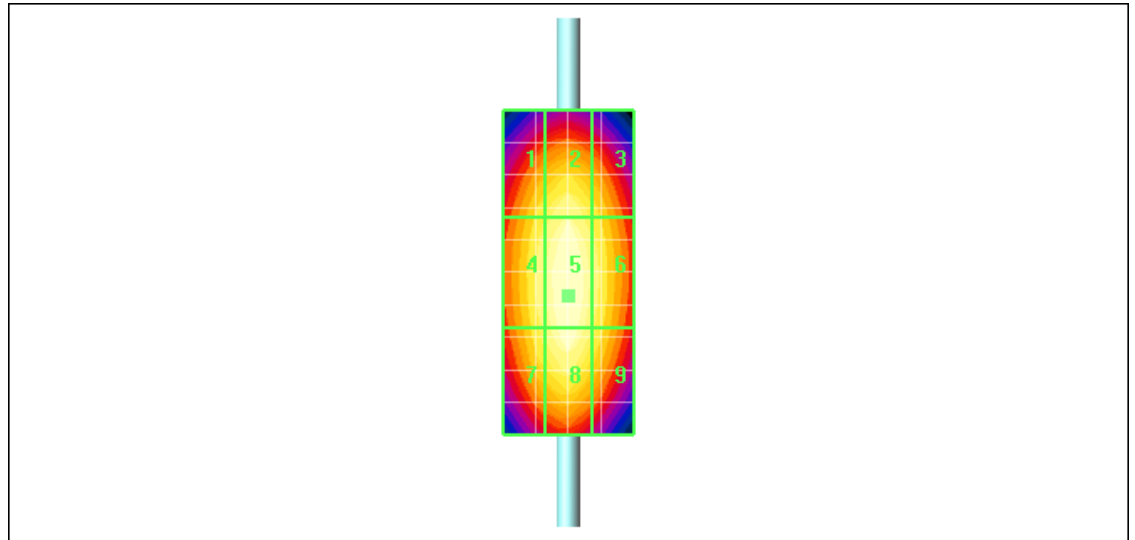
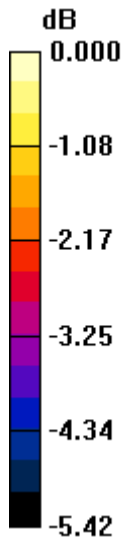
Reference Value = 0.478 A/m; Power Drift = 0.007 dB

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


Peak H-field in A/m

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

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0 dB = 0.450A/m

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

Test Laboratory: RIM Testing Services

HAC_H_Dipole_1880MHz_GSM_mod

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

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

Phantom section: RF Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

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

H Scan - measurement distance from the probe sensor center to

CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (5x9x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

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

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

H Scan - measurement distance from the probe sensor center to

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

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

Maximum value of peak Total field = 0.122 A/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

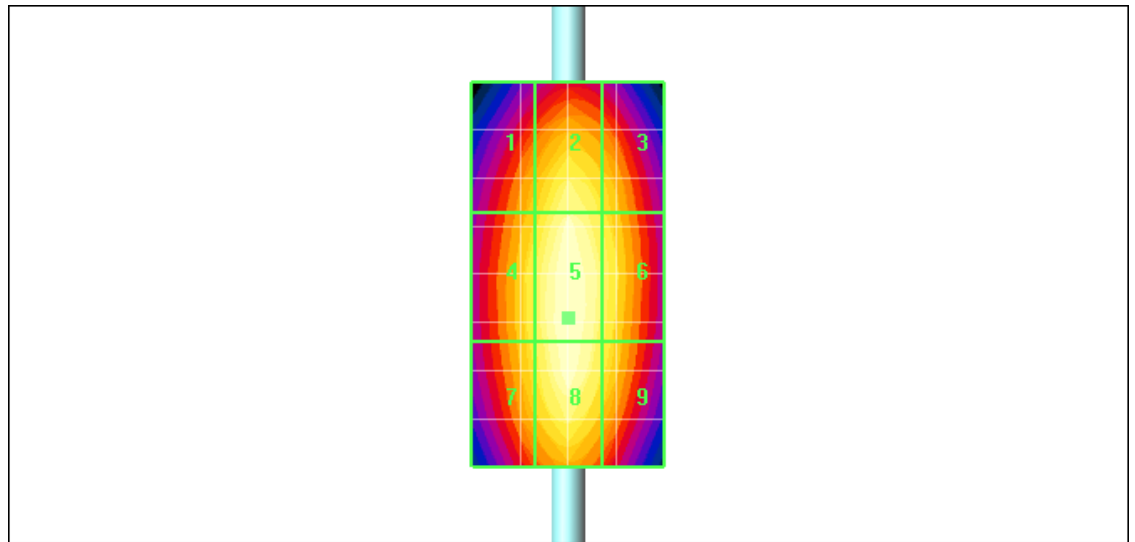
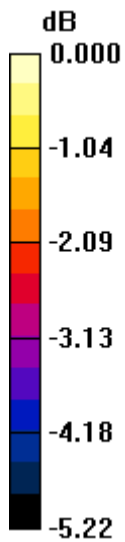
Reference Value = 0.131 A/m; Power Drift = -0.040 dB

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


Peak H-field in A/m

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

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0 dB = 0.122A/m

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

Test Laboratory: RIM Testing Services

HAC_H_Dipole_1880MHz_CW_GSM_mod

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

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

Phantom section: RF Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

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

H Scan - measurement distance from the probe sensor center to

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

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

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

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

H Scan - measurement distance from the probe sensor center to

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

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

Maximum value of peak Total field = 0.308 A/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

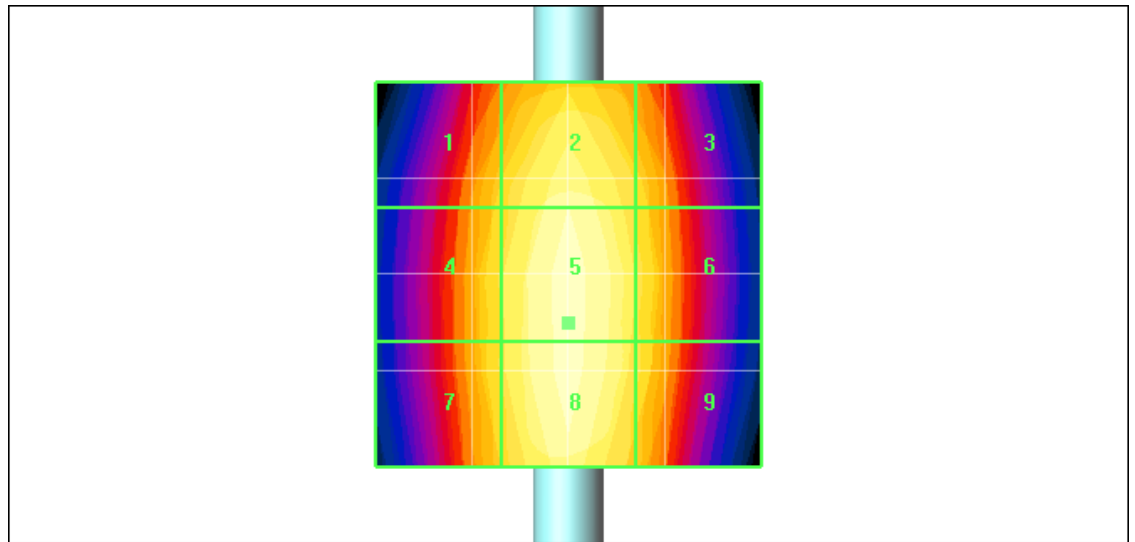
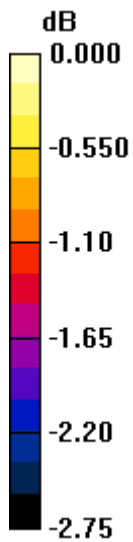
Reference Value = 0.325 A/m; Power Drift = -0.041 dB

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


Peak H-field in A/m

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

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0 dB = 0.308A/m

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

Test Laboratory: RIM Testing Services

HAC_H_Dipole_1880MHz_AM80%_GSM_mod

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

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

Phantom section: RF Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

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

H Scan - measurement distance from the probe sensor center to

CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (5x9x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

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

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

H Scan - measurement distance from the probe sensor center to

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

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

Maximum value of peak Total field = 0.199 A/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

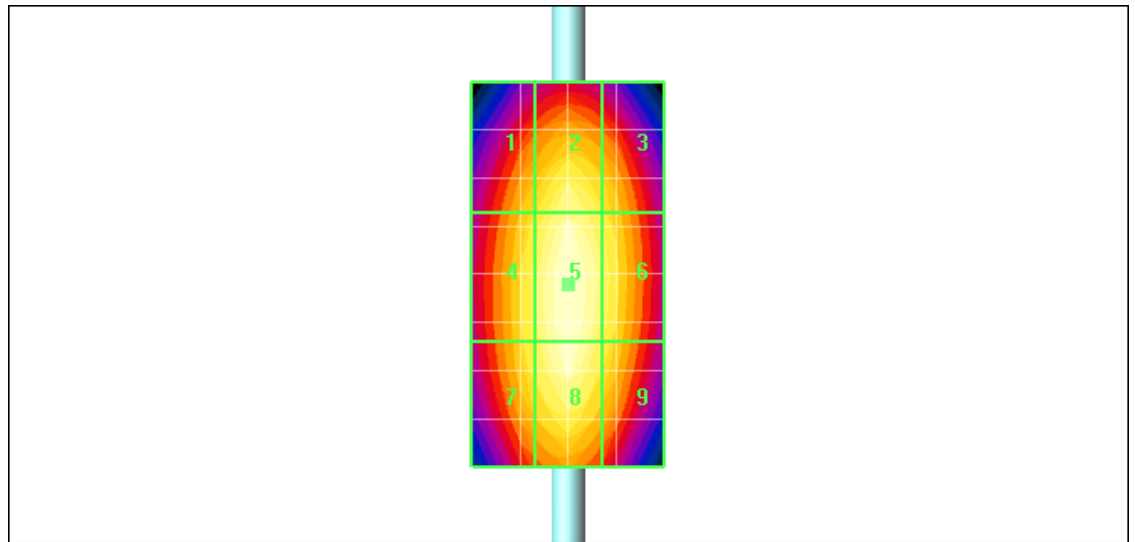
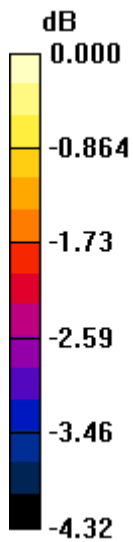
Reference Value = 0.211 A/m; Power Drift = -0.008 dB

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


Peak H-field in A/m

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

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0 dB = 0.199A/m

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

Test Laboratory: RIM Testing Services

HAC_H_Dipole_1880MHz_CDMA_mod

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

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

Phantom section: RF Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

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

H Scan - measurement distance from the probe sensor center to

CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (5x9x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

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

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

H Scan - measurement distance from the probe sensor center to

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

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

Maximum value of peak Total field = 0.103 A/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

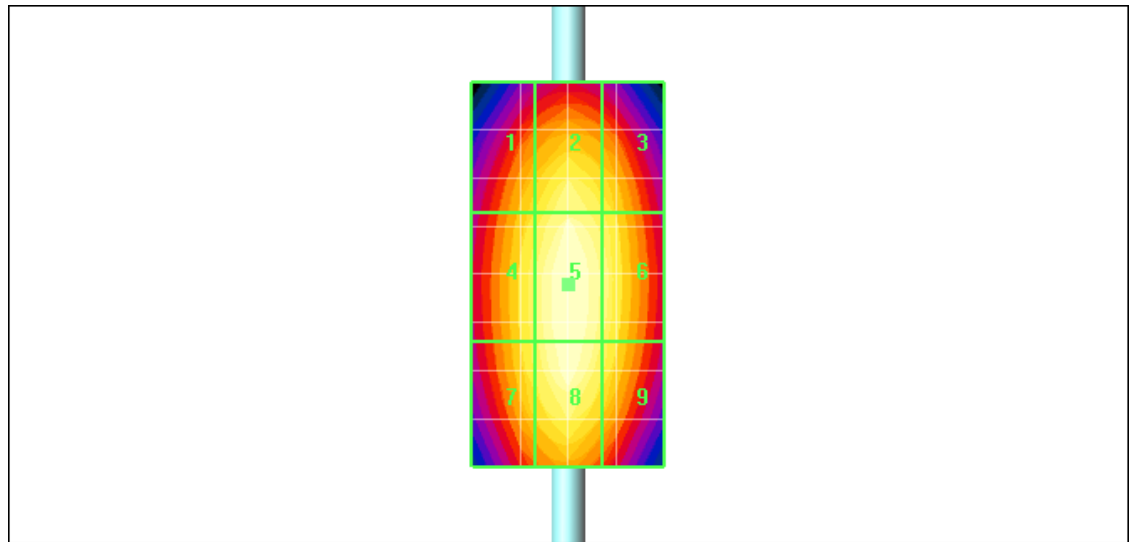
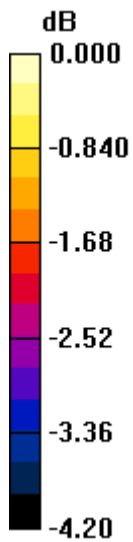
Reference Value = 0.109 A/m; Power Drift = 0.002 dB

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


Peak H-field in A/m

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

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0 dB = 0.111A/m

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Date/Time: 1/19/2011 2:51:37 PM

Test Laboratory: RIM Testing Services

HAC_H_Dipole_1880MHz_CW_CDMA_mod

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

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

Phantom section: RF Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

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

H Scan - measurement distance from the probe sensor center to

CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (5x9x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

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

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

H Scan - measurement distance from the probe sensor center to

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

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

Maximum value of peak Total field = 0.111 A/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

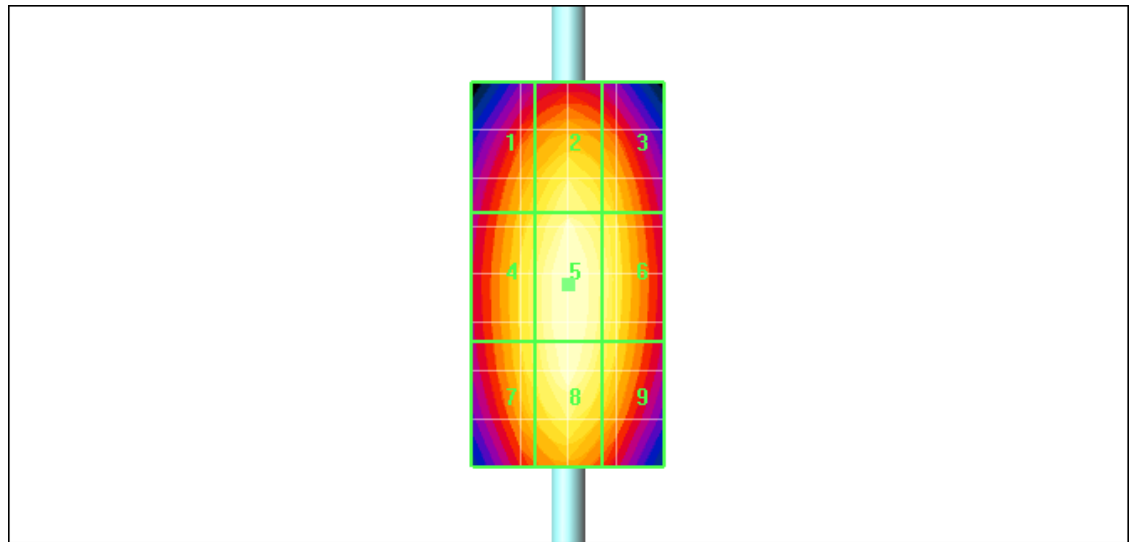
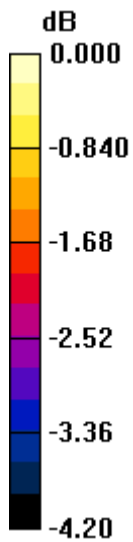
Reference Value = 0.117 A/m; Power Drift = 0.014 dB

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


Peak H-field in A/m

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

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0 dB = 0.111A/m

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

Test Laboratory: RIM Testing Services

HAC_H_Dipole_1880MHz_AM80%_CDMA_mod

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

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

Phantom section: RF Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

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

H Scan - measurement distance from the probe sensor center to

CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (5x9x1):

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


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

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

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

H Scan - measurement distance from the probe sensor center to

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

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

Maximum value of peak Total field = 0.080 A/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

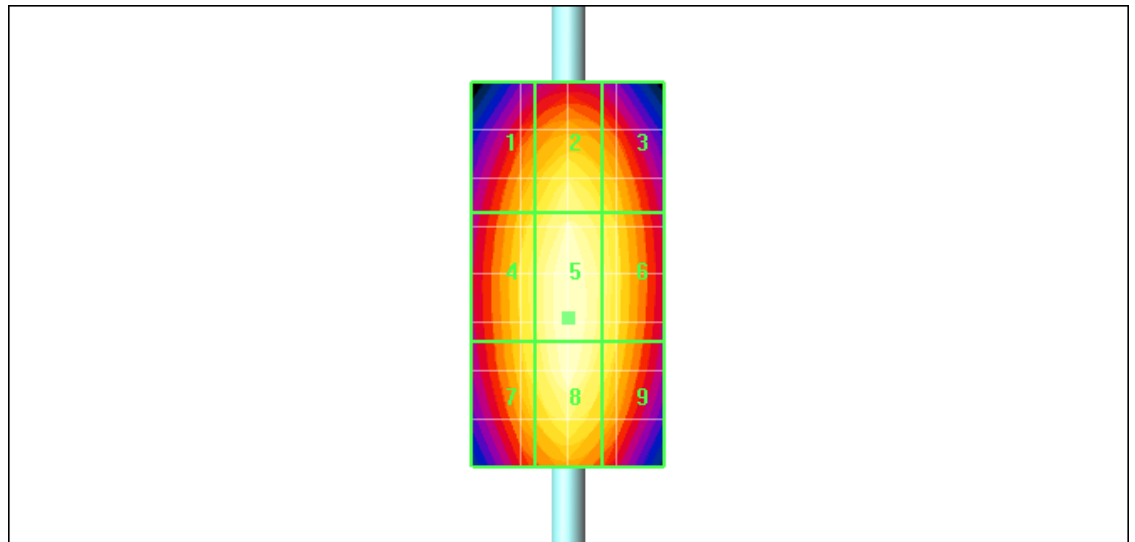
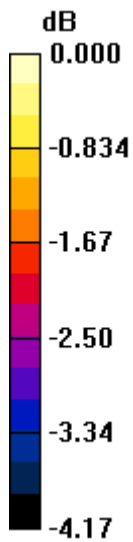
Reference Value = 0.084 A/m; Power Drift = 0.004 dB

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


Peak H-field in A/m

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

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0 dB = 0.080A/m

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Date/Time: 4/5/2011 4:01:05 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_validation_1880 MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid

Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm


Maximum value of peak Total field = 133.4 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

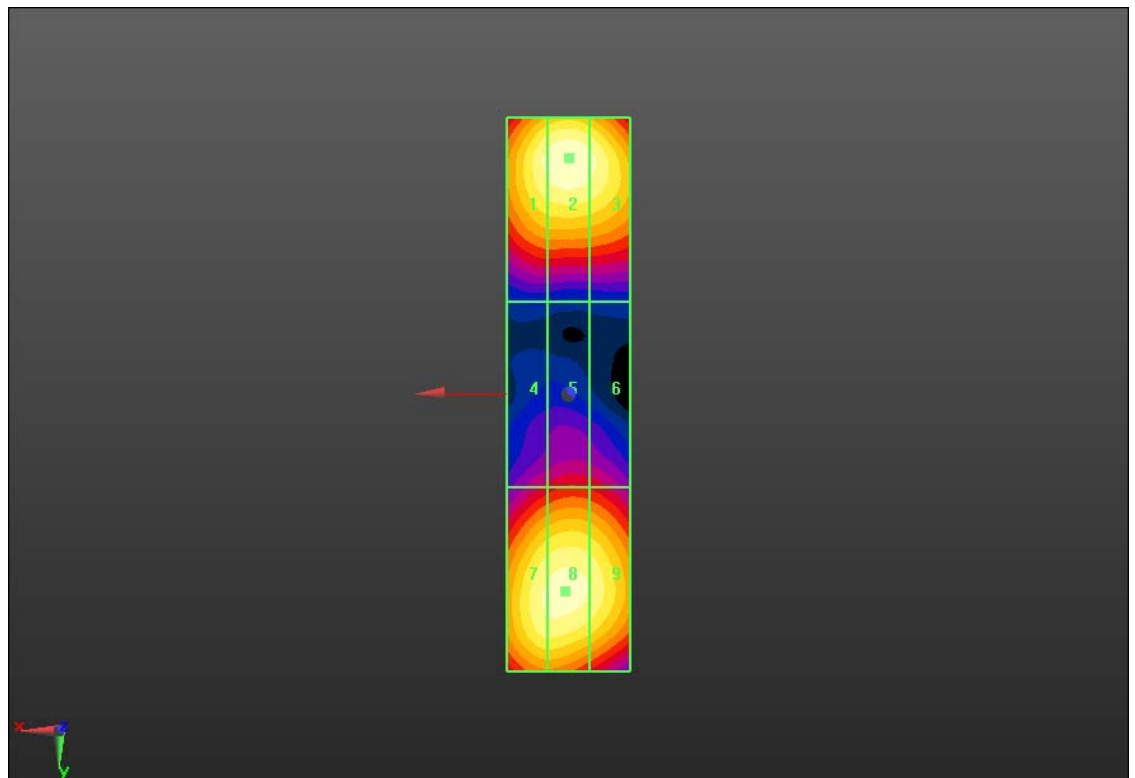
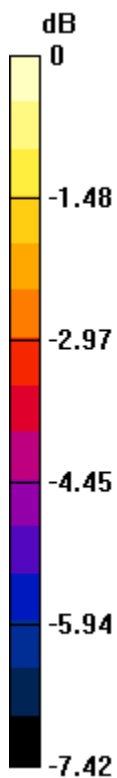
Reference Value = 128.7 V/m; Power Drift = 0.02 dB

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


	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDH71CW/RDQ71UW		102 (234)
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Peak E-field in V/m

Grid 1 128.3 M2	Grid 2 133.4 M2	Grid 3 128.8 M2
Grid 4 86.427 M3	Grid 5 90.378 M3	Grid 6 88.820 M3
Grid 7 127.6 M2	Grid 8 129.5 M2	Grid 9 125.5 M2



0 dB = 133.4V/m

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Date/Time: 4/5/2011 3:15:31 PM, Date/Time: 4/5/2011 3:35:37 PM, Date/Time:
4/5/2011 3:50:05 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_1733 MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: WCDMA FDD IV, Communication System: CW,
Communication System: AM80%; Communication System Band: 1733;
Frequency: 1732.6 MHz, Frequency: 1733 MHz;Communication System PAR: 0
dB

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


Phantom section: RF Section

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

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Dipole WCDMA 1733 E-Field measurement/E Scan - measurement
distance from the probe sensor center to CD1880 Dipole =
10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid:
dx=5mm, dy=5mm**

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Maximum value of peak Total field = 45.953 V/m

Probe Modulation Factor = 1.000


Device Reference Point: 0, 0, -6.3 mm

Reference Value = 45.671 V/m; Power Drift = 0.0022 dB

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

Peak E-field in V/m

Grid 1 44.309 M4	Grid 2 45.897 M4	Grid 3 43.942 M4
Grid 4 32.194 M4	Grid 5 33.381 M4	Grid 6 32.650 M4
Grid 7 45.541 M4	Grid 8 45.953 M4	Grid 9 44.163 M4

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Dipole E-Field CW 1733 MHz_PMF measurement/E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm 2/Hearing Aid Compatibility Test

(41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 44.684 V/m

Probe Modulation Factor = 1.000


Device Reference Point: 0, 0, -6.3 mm

Reference Value = 44.777 V/m; Power Drift = -0.03 dB

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

Peak E-field in V/m

Grid 1 42.576 M4	Grid 2 44.154 M4	Grid 3 42.558 M4
Grid 4 31.220 M4	Grid 5 32.494 M4	Grid 6 31.749 M4
Grid 7 44.140 M4	Grid 8 44.684 M4	Grid 9 42.994 M4

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**Dipole AM80%_1733 MHz_E-Field measurement/E Scan -
measurement distance from the probe sensor center to
CD1880 Dipole = 10mm 2 2/Hearing Aid Compatibility Test**

(41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 28.697 V/m

Probe Modulation Factor = 1.000


Device Reference Point: 0, 0, -6.3 mm

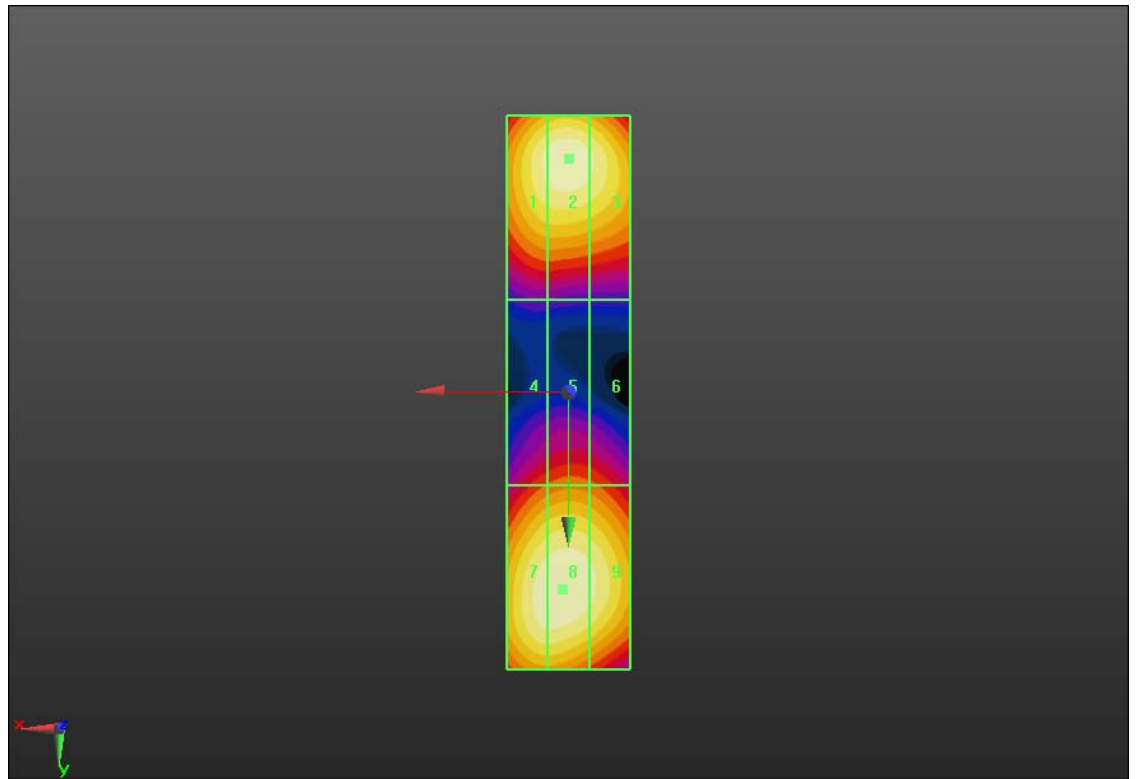
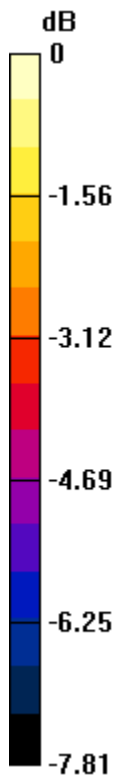
Reference Value = 28.666 V/m; Power Drift = -0.03 dB

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


Peak E-field in V/m

Grid 1 27.579 M4	Grid 2 28.576 M4	Grid 3 27.503 M4
Grid 4 20.034 M4	Grid 5 20.866 M4	Grid 6 20.402 M4
Grid 7 28.387 M4	Grid 8 28.697 M4	Grid 9 27.712 M4

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0 dB = 45.950V/m

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Date/Time: 4/5/2011 4:45:41 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_validation_1880 MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole H-Field measurement with H3DV6 probe/H Scan - measurement

distance from the probe sensor center to CD1880 Dipole =


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

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.476 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm


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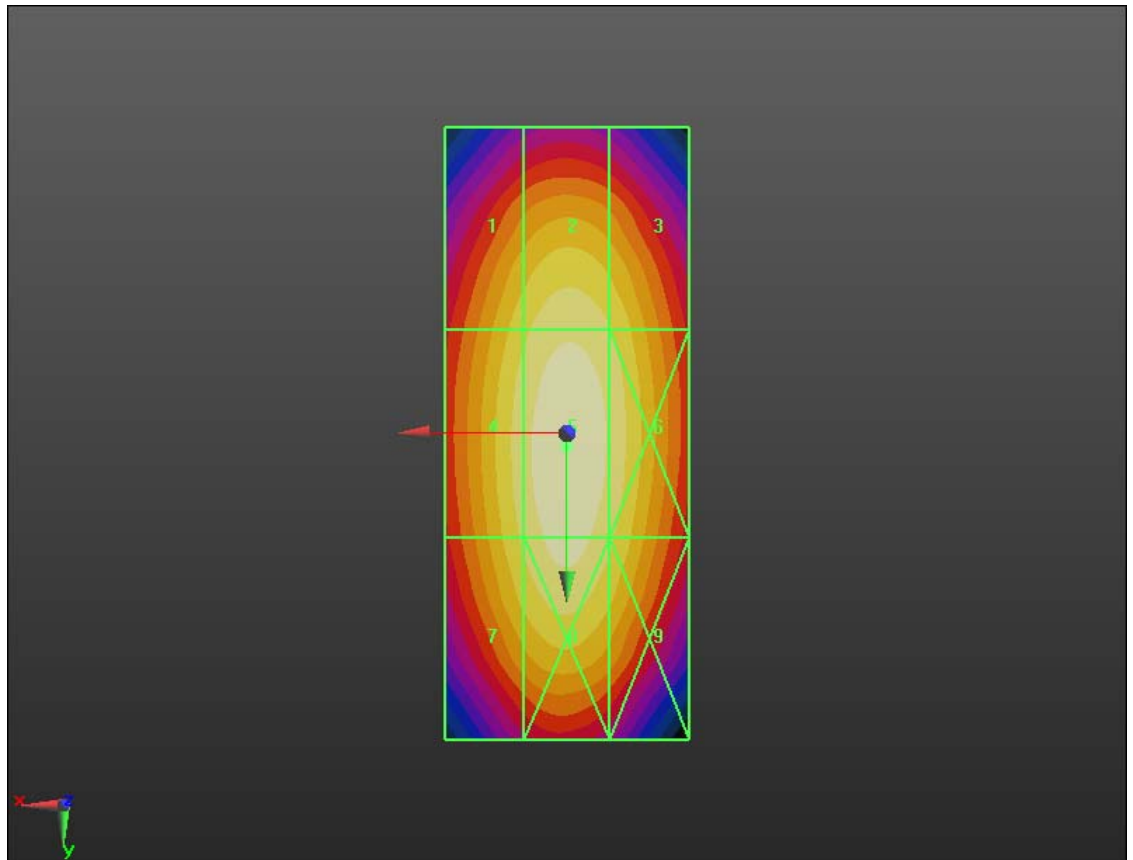
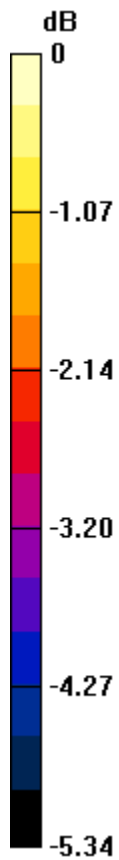
Reference Value = 0.502 A/m; Power Drift = 0.04 dB

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


Peak H-field in A/m

Grid 1 0.438 M2	Grid 2 0.458 M2	Grid 3 0.443 M2
Grid 4 0.455 M2	Grid 5 0.476 M2	Grid 6 0.458 M2
Grid 7 0.447 M2	Grid 8 0.469 M2	Grid 9 0.447 M2

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0 dB = 0.480A/m

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Date/Time: 4/5/2011 4:22:30 PM, Date/Time: 4/5/2011 4:37:10 PM, Date/Time: 4/5/2011 4:40:56 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_1733 MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: WCDMA FDD IV, Communication System: CW,
Communication System: AM80%; Communication System Band: Exported from
older format (data unavailable - please correct)., Communication System Band:
D1800 (1800.0 MHz); Frequency: 1732.6 MHz, Frequency: 1733

MHz;Communication System PAR: 0 dB

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

Phantom section: RF Section

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


DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Dipole WCDMA 1733 MHz_PMF_H-Field meausrement with H3DV6
probe/H Scan - measurement distance from the probe sensor center to
CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x101x1):**

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

Maximum value of peak Total field = 0.165 A/m

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Probe Modulation Factor = 1.000


Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.175 A/m; Power Drift = -0.0064 dB

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

Peak H-field in A/m

Grid 1 0.148 M4	Grid 2 0.156 M4	Grid 3 0.151 M4
Grid 4 0.156 M4	Grid 5 0.165 M4	Grid 6 0.159 M4
Grid 7 0.151 M4	Grid 8 0.160 M4	Grid 9 0.153 M4

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Dipole CW 1733_PMF_H-Field meausrement with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm 2/Hearing Aid

Compatibility Test (41x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.160 A/m

Probe Modulation Factor = 1.000


Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.172 A/m; Power Drift = -0.08 dB

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

Peak H-field in A/m

Grid 1 0.144 M4	Grid 2 0.151 M4	Grid 3 0.147 M4
Grid 4 0.152 M4	Grid 5 0.160 M4	Grid 6 0.155 M4
Grid 7 0.148 M4	Grid 8 0.156 M4	Grid 9 0.149 M4

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Dipole AM80% 1733_PMF_H-Field meaurement with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm 2 2/Hearing Aid

Compatibility Test (41x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.102 A/m

Probe Modulation Factor = 1.000


Device Reference Point: 0, 0, -6.3 mm

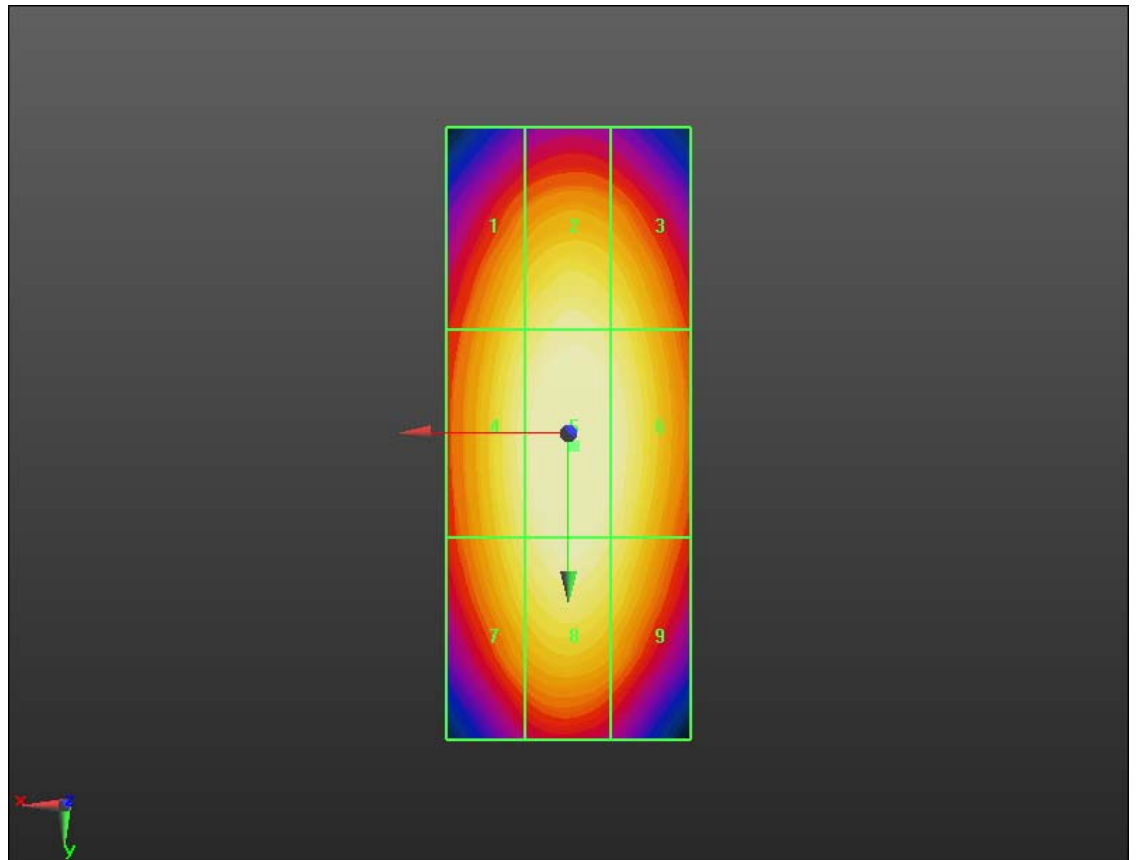
Reference Value = 0.110 A/m; Power Drift = -0.04 dB

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


Peak H-field in A/m

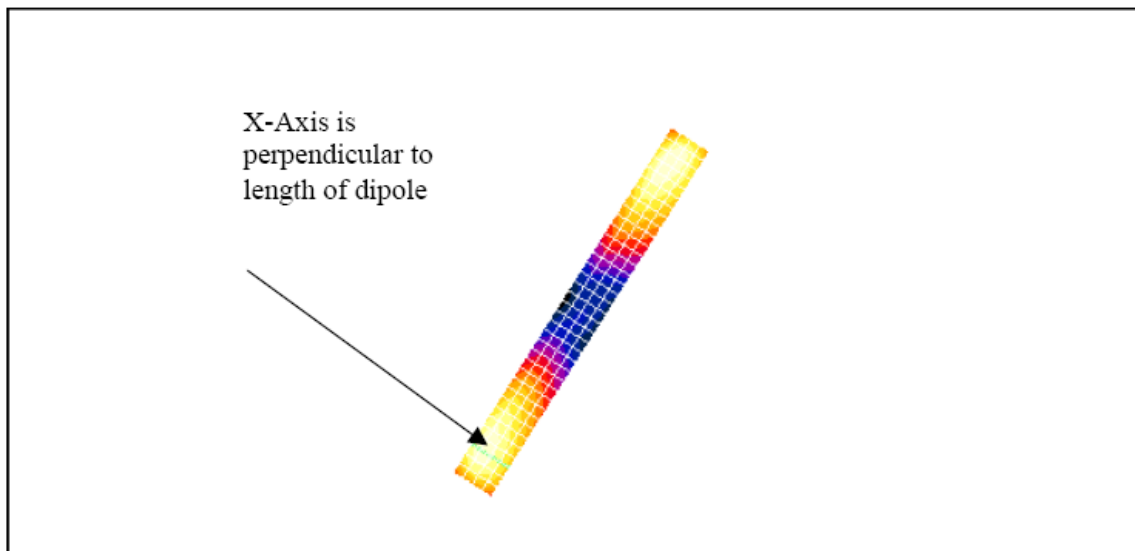
Grid 1 0.091 M4	Grid 2 0.097 M4	Grid 3 0.093 M4
Grid 4 0.096 M4	Grid 5 0.102 M4	Grid 6 0.098 M4
Grid 7 0.093 M4	Grid 8 0.099 M4	Grid 9 0.094 M4

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0 dB = 0.160A/m


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

Comparison of 5mm and 2mm step sizes

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

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

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

Lab: RIM Testing Services (RTS)

Dipole Validation 1880 MHz_E-Field 07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

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

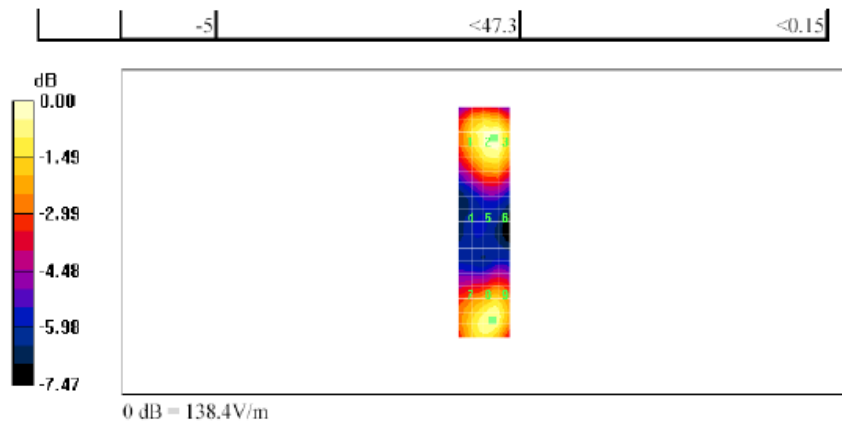
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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

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

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

Lab: RIM Testing Services (RTS)

Dipole Validation 1880 MHz_2mm step_E-Field 07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

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

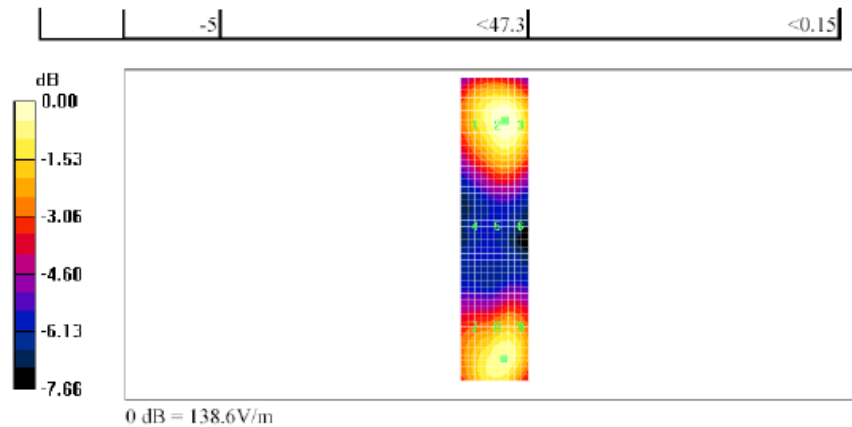
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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

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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

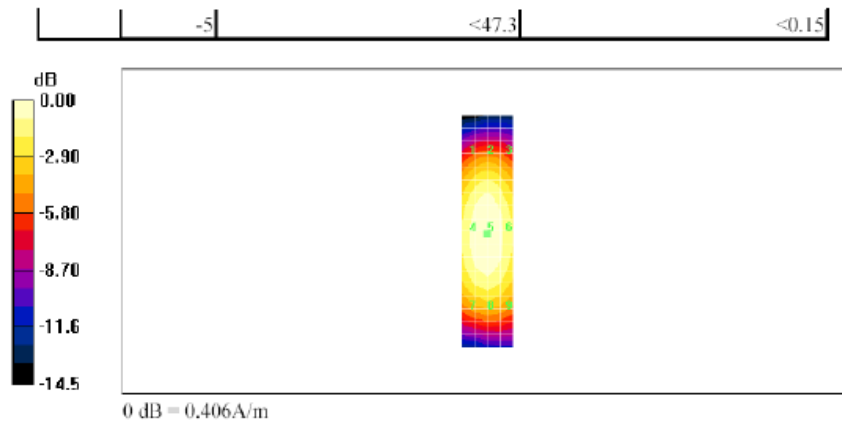
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

file://C:\Program%20Files\DASY4\Print_Templates\HAC_H_Dipole_CW%201880_5%... 14/07/2005


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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

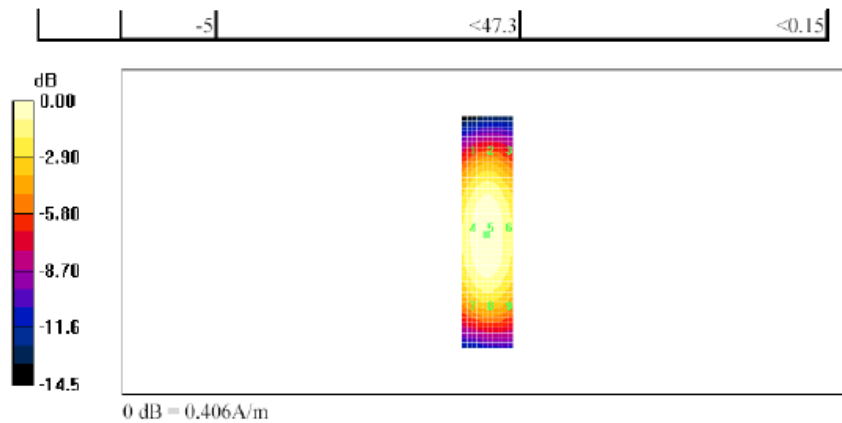
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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A.3 RF emissions plots

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

Test Laboratory: RIM Testing Services

HAC_E_GSM850_low_chan

DUT: BlackBerry Smartphone

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

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

Phantom section: RF Section

DASY4 Configuration:

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

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

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

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

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

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dx=5mm, dy=5mm

Maximum value of peak Total field = 195.4 V/m

Probe Modulation Factor = 2.90


Device Reference Point: 0.000, 0.000, -6.30 mm

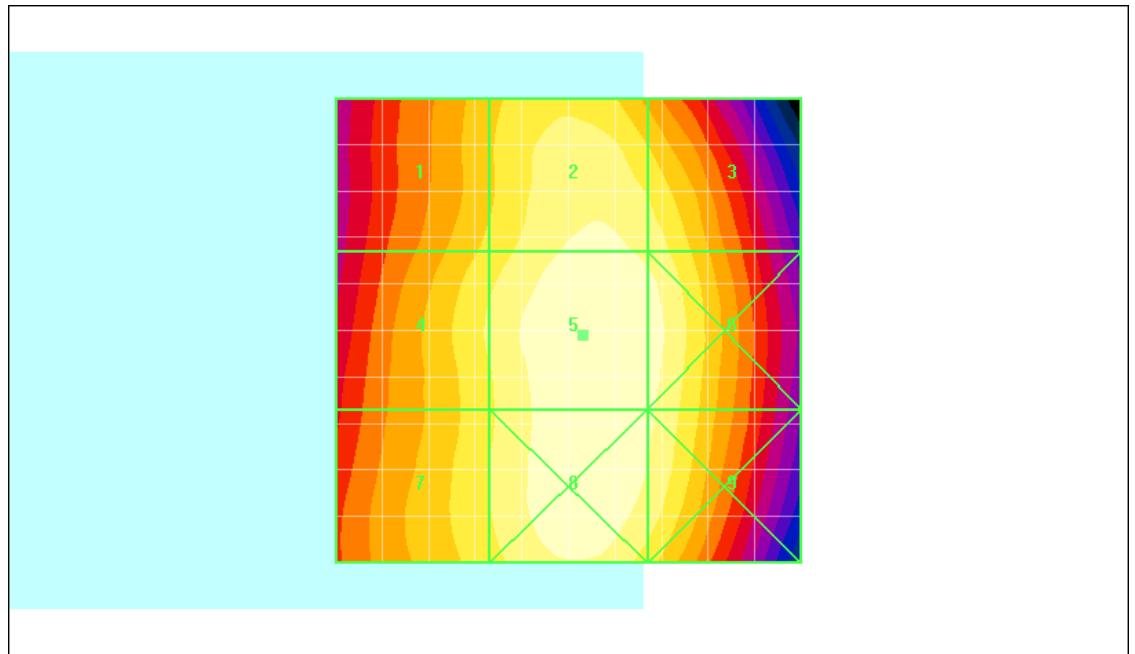
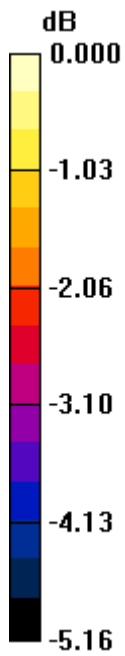
Reference Value = 87.7 V/m; Power Drift = -0.180 dB

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


Peak E-field in V/m

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

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0 dB = 195.4V/m

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

Test Laboratory: RIM Testing Services

HAC_E_GSM850_mid_chan

DUT: BlackBerry Smartphone

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

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

Phantom section: RF Section

DASY4 Configuration:

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

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

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

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

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

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

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 211.5 V/m

Probe Modulation Factor = 2.90


Device Reference Point: 0.000, 0.000, -6.30 mm

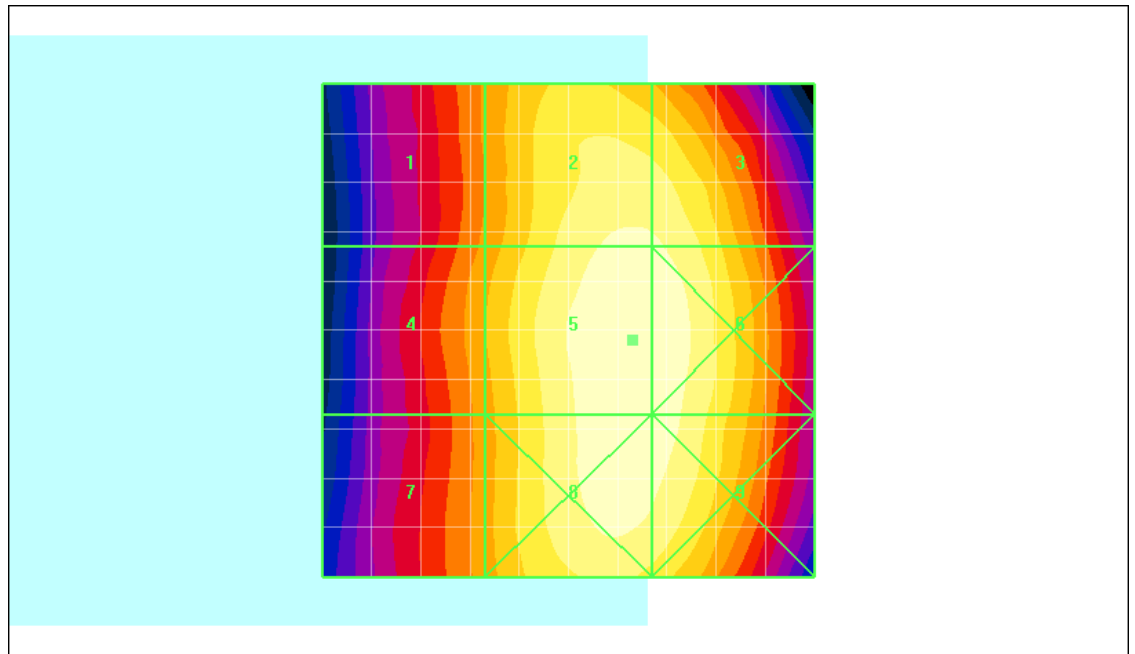
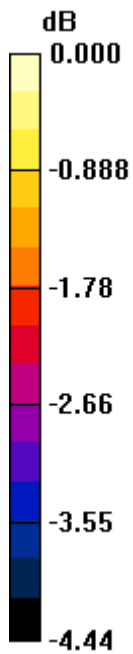
Reference Value = 91.2 V/m; Power Drift = 0.212 dB

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


Peak E-field in V/m

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

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0 dB = 211.5V/m

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

Test Laboratory: RIM Testing Services

HAC_E_GSM850_high_chan

DUT: BlackBerry Smartphone

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

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

Phantom section: RF Section

DASY4 Configuration:

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

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

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

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

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

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

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 223.9 V/m

Probe Modulation Factor = 2.90


Device Reference Point: 0.000, 0.000, -6.30 mm

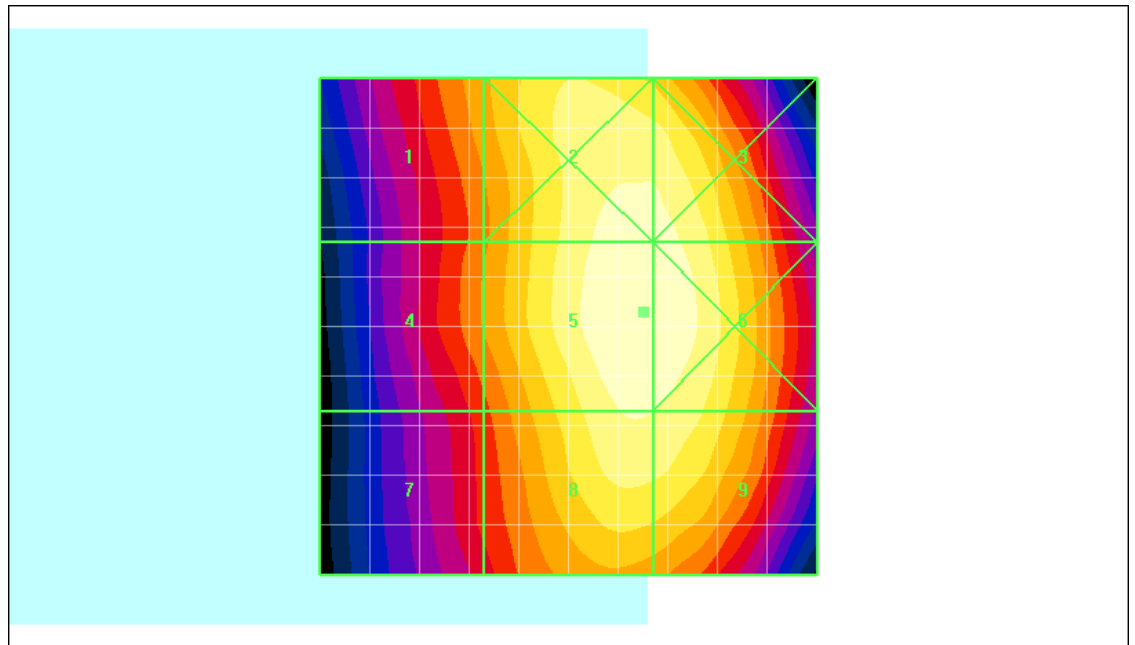
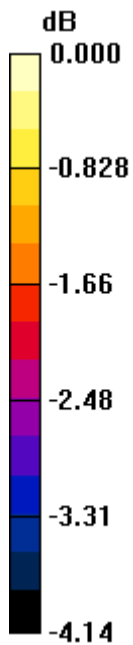
Reference Value = 96.9 V/m; Power Drift = -0.021 dB

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


Peak E-field in V/m

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

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0 dB = 223.9V/m

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

Test Laboratory: RIM Testing Services

HAC_E_GSM850_high_chan_Telecoil_Center

DUT: BlackBerry Smartphone

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

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

Phantom section: RF Section

DASY4 Configuration:

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

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

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

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

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

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

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 222.4 V/m

Probe Modulation Factor = 2.90


Device Reference Point: 0.000, 0.000, -6.30 mm

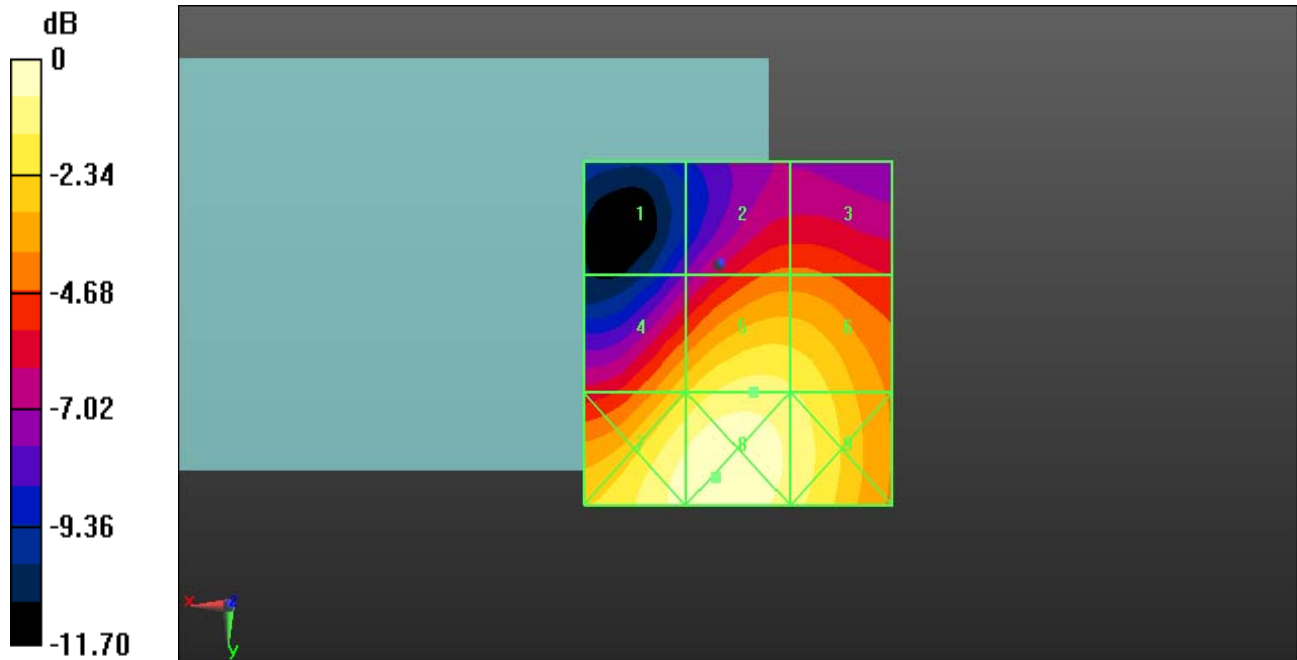
Reference Value = 96.4 V/m; Power Drift = -0.071 dB

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


Peak E-field in V/m

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

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0 dB = 223.7V/m

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

Test Laboratory: RIM Testing Services

HAC_E_GSM1900_low_chan

DUT: BlackBerry Smartphone

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

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

Phantom section: RF Section

DASY4 Configuration:

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

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

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

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

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

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dx=5mm, dy=5mm

Maximum value of peak Total field = 53.8 V/m

Probe Modulation Factor = 2.90


Device Reference Point: 0.000, 0.000, -6.30 mm

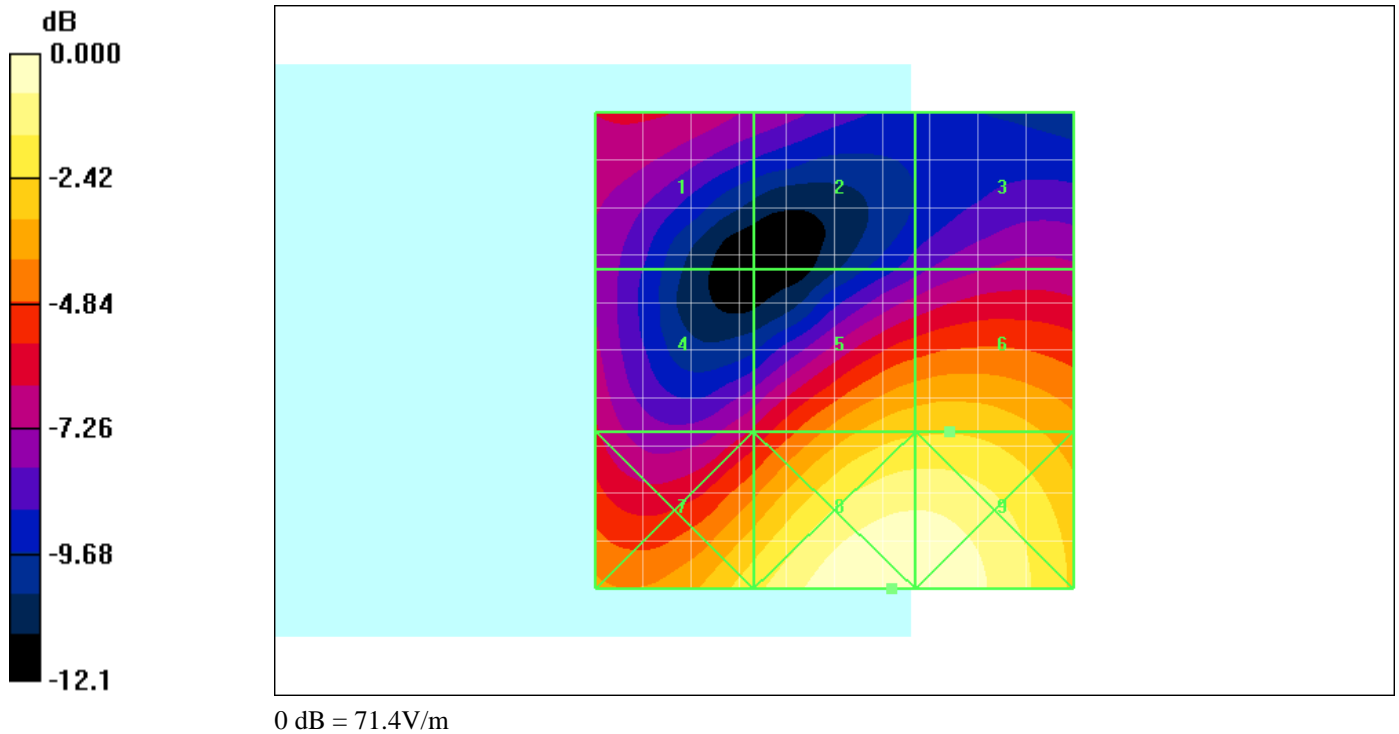
Reference Value = 13.6 V/m; Power Drift = 0.040 dB


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

Peak E-field in V/m

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

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

Test Laboratory: RIM Testing Services

HAC_E_GSM1900_mid_chan

DUT: BlackBerry Smartphone

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

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

Phantom section: RF Section

DASY4 Configuration:

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

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

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

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

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

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

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 53.3 V/m

Probe Modulation Factor = 2.90


Device Reference Point: 0.000, 0.000, -6.30 mm

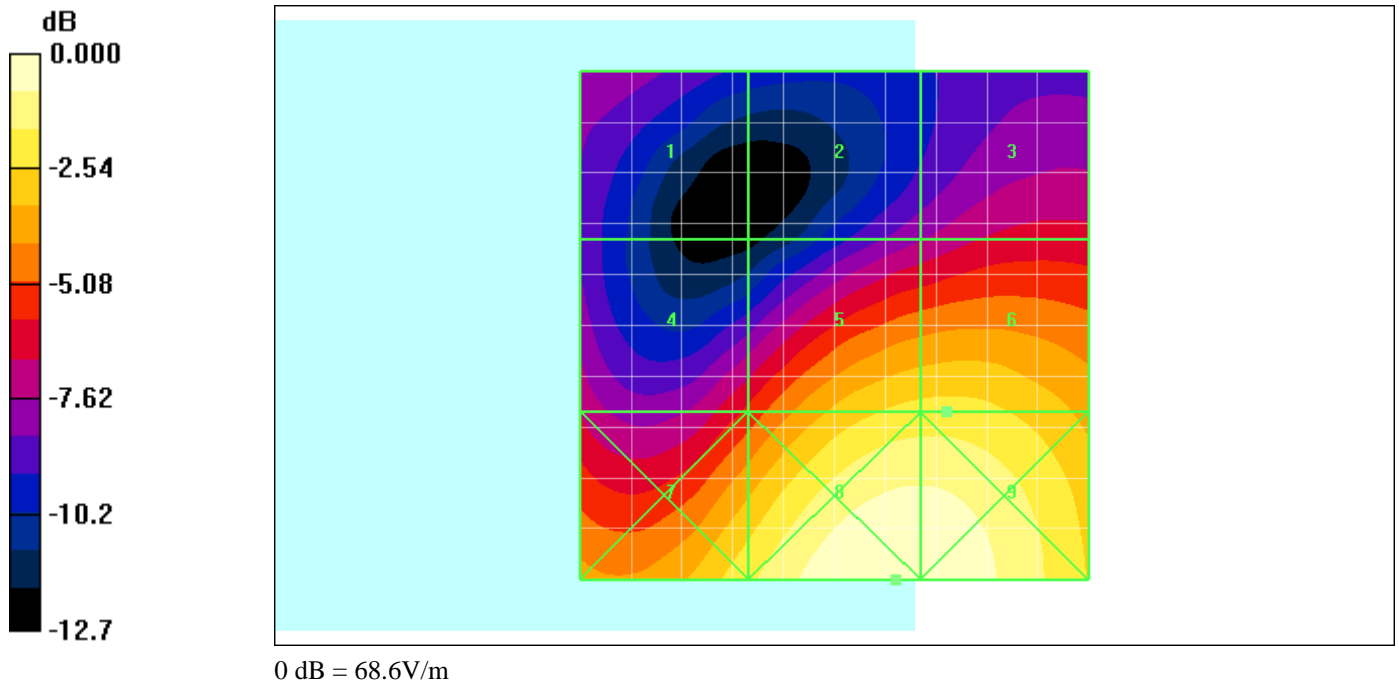
Reference Value = 15.2 V/m; Power Drift = -0.099 dB


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

Peak E-field in V/m

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

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

Test Laboratory: RIM Testing Services

HAC_E_GSM1900_high_chan

DUT: BlackBerry Smartphone

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

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

Phantom section: RF Section

DASY4 Configuration:

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

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

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

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

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

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

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 52.5 V/m

Probe Modulation Factor = 2.90


Device Reference Point: 0.000, 0.000, -6.30 mm

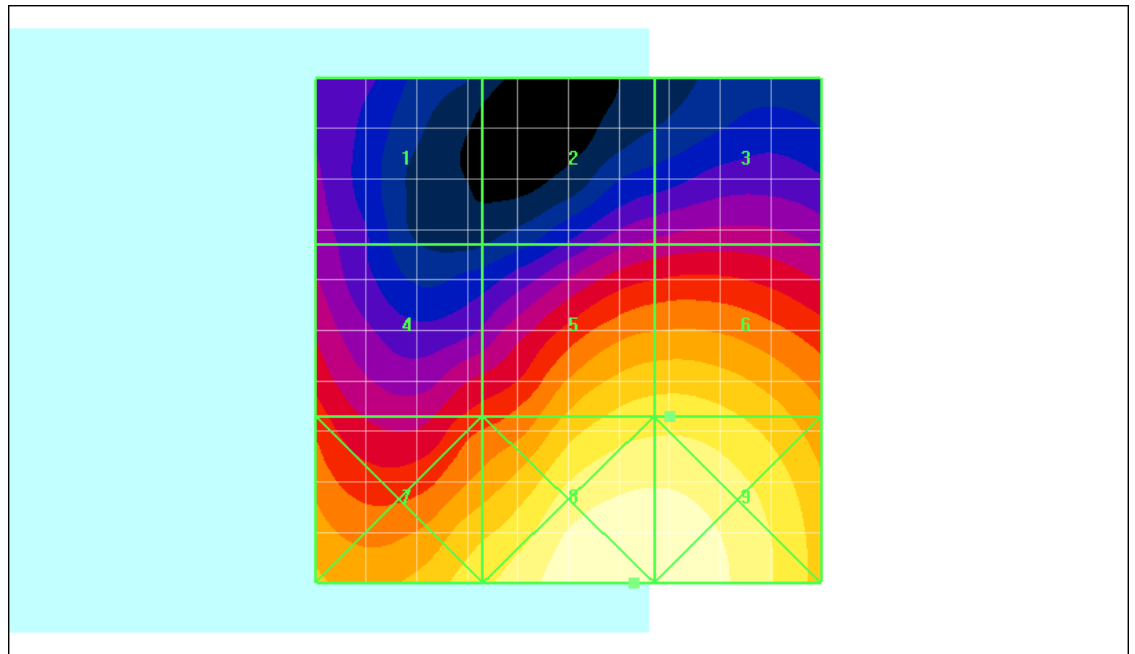
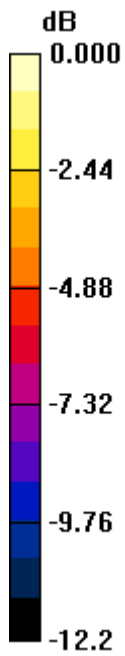
Reference Value = 15.6 V/m; Power Drift = -0.316 dB

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


Peak E-field in V/m

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

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0 dB = 66.0V/m

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

Test Laboratory: RIM Testing Services

HAC_E_GSM1900_low_chan_Telecoil_Center

DUT: BlackBerry Smartphone

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

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

Phantom section: RF Section

DASY4 Configuration:

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

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

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

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

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

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

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 47.8 V/m

Probe Modulation Factor = 2.90

Device Reference Point: 0.000, 0.000, -6.30 mm


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

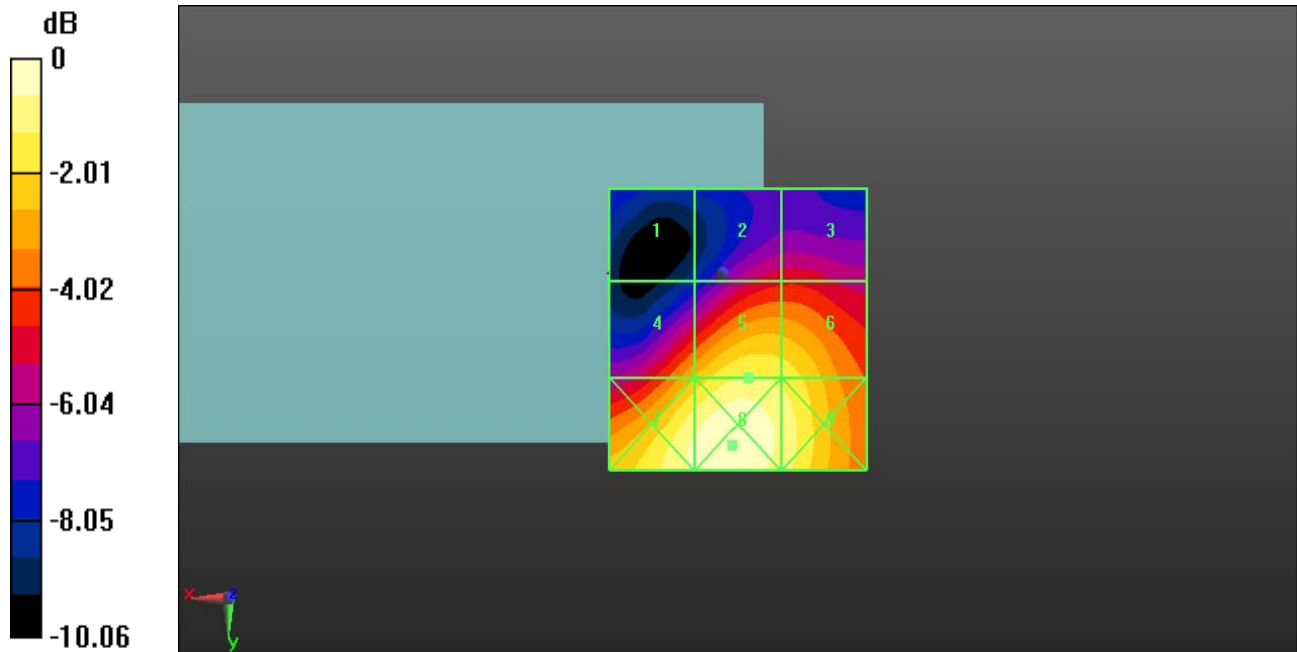
Hearing Aid Near-Field Category: M3 (AWF -5 dB)


Peak E-field in V/m

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

0 dB = 68.9V/m

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

Test Laboratory: RIM Testing Services

HAC_E_CDMA800_low_chan

DUT: BlackBerry Smartphone

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

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

Phantom section: RF Section

DASY4 Configuration:

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

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

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

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

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

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

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 27.3 V/m

Probe Modulation Factor = 1.01


Device Reference Point: 0.000, 0.000, -6.30 mm

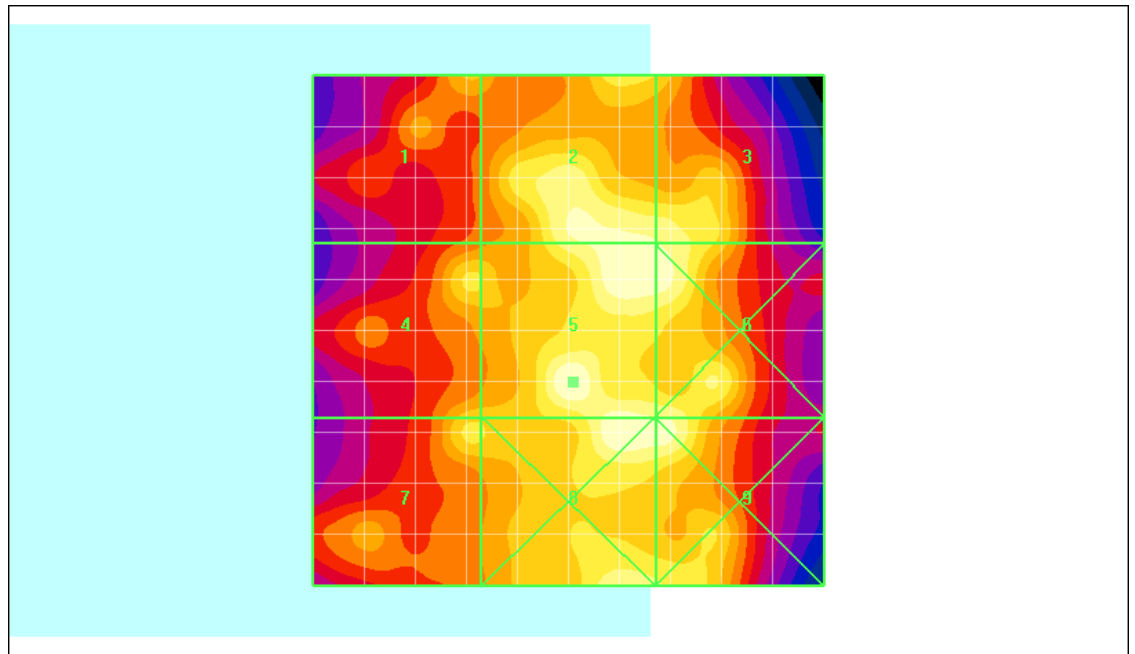
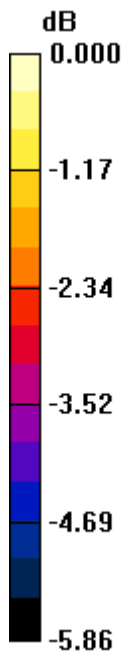
Reference Value = 30.4 V/m; Power Drift = 0.179 dB

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


Peak E-field in V/m

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

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0 dB = 27.3V/m

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

Test Laboratory: RIM Testing Services

HAC_E_CDMA800_mid_chan

DUT: BlackBerry Smartphone

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

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

Phantom section: RF Section

DASY4 Configuration:

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

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

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

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

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

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

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 27.3 V/m

Probe Modulation Factor = 1.01


Device Reference Point: 0.000, 0.000, -6.30 mm

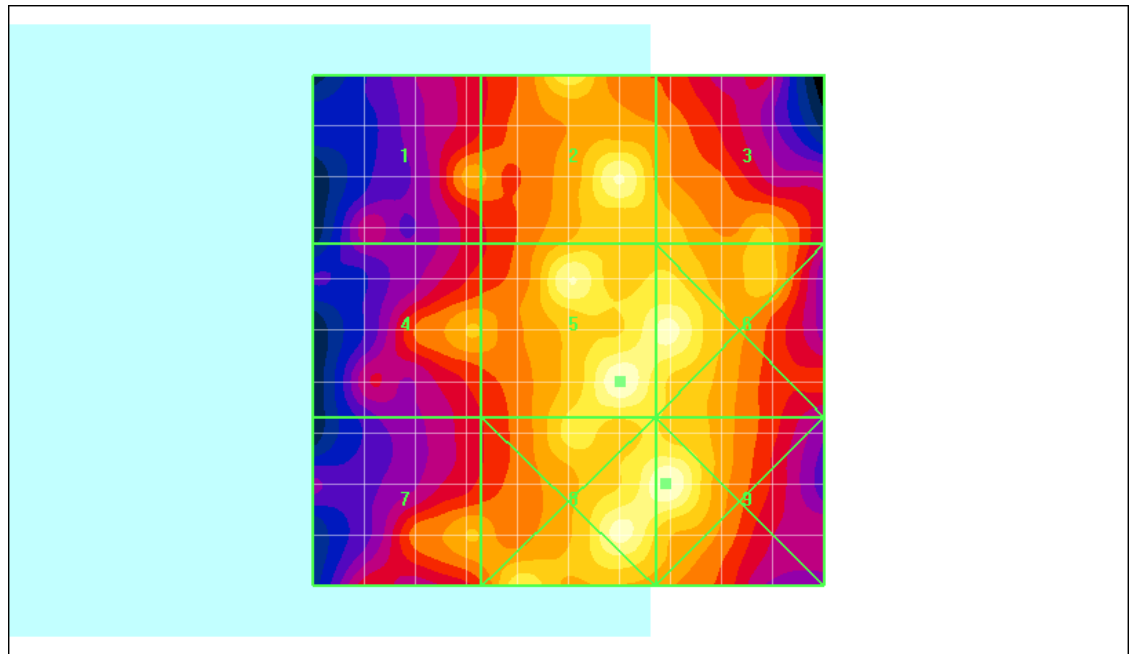
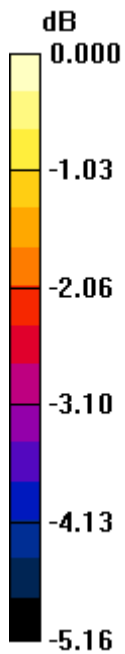
Reference Value = 34.5 V/m; Power Drift = -0.044 dB

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


Peak E-field in V/m

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

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0 dB = 27.4V/m

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

Test Laboratory: RIM Testing Services

HAC_E_CDMA800_high_chan

DUT: BlackBerry Smartphone

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

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

Phantom section: RF Section

DASY4 Configuration:

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

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

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

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

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

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

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 26.4 V/m

Probe Modulation Factor = 1.01


Device Reference Point: 0.000, 0.000, -6.30 mm

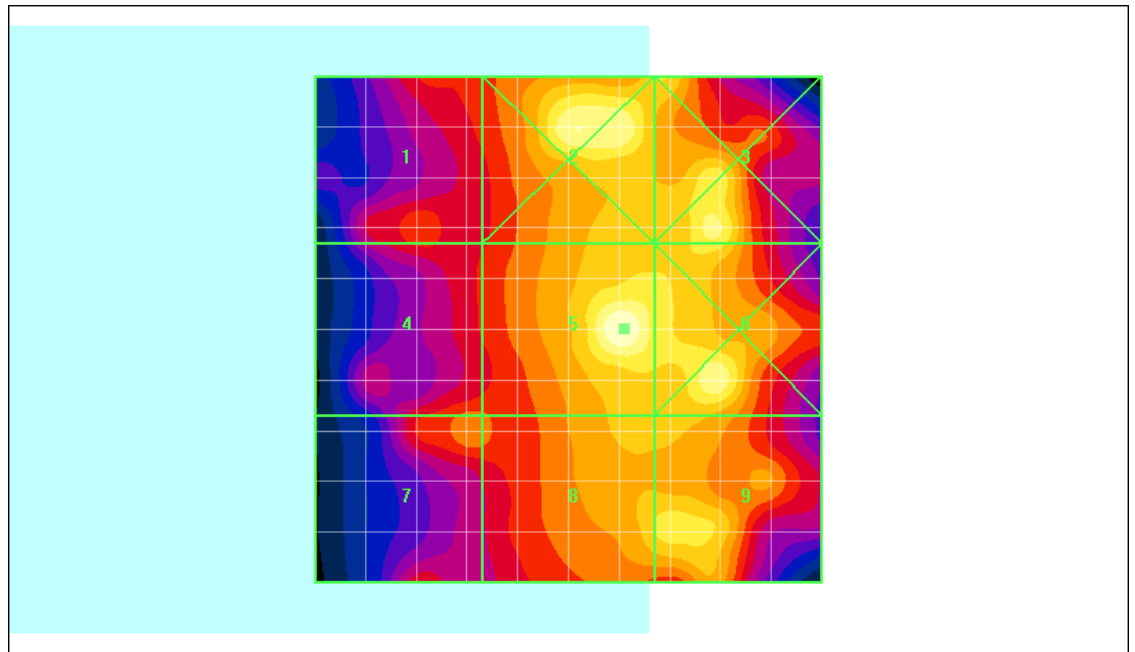
Reference Value = 29.1 V/m; Power Drift = -0.074 dB

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


Peak E-field in V/m

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

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0 dB = 26.4V/m

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

Test Laboratory: RIM Testing Services

HAC_E_CDMA800_mid_chan_Telecoil_Center

DUT: BlackBerry Smartphone

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

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

Phantom section: RF Section

DASY4 Configuration:

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

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

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

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

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

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

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 27.1 V/m

Probe Modulation Factor = 1.01


Device Reference Point: 0.000, 0.000, -6.30 mm

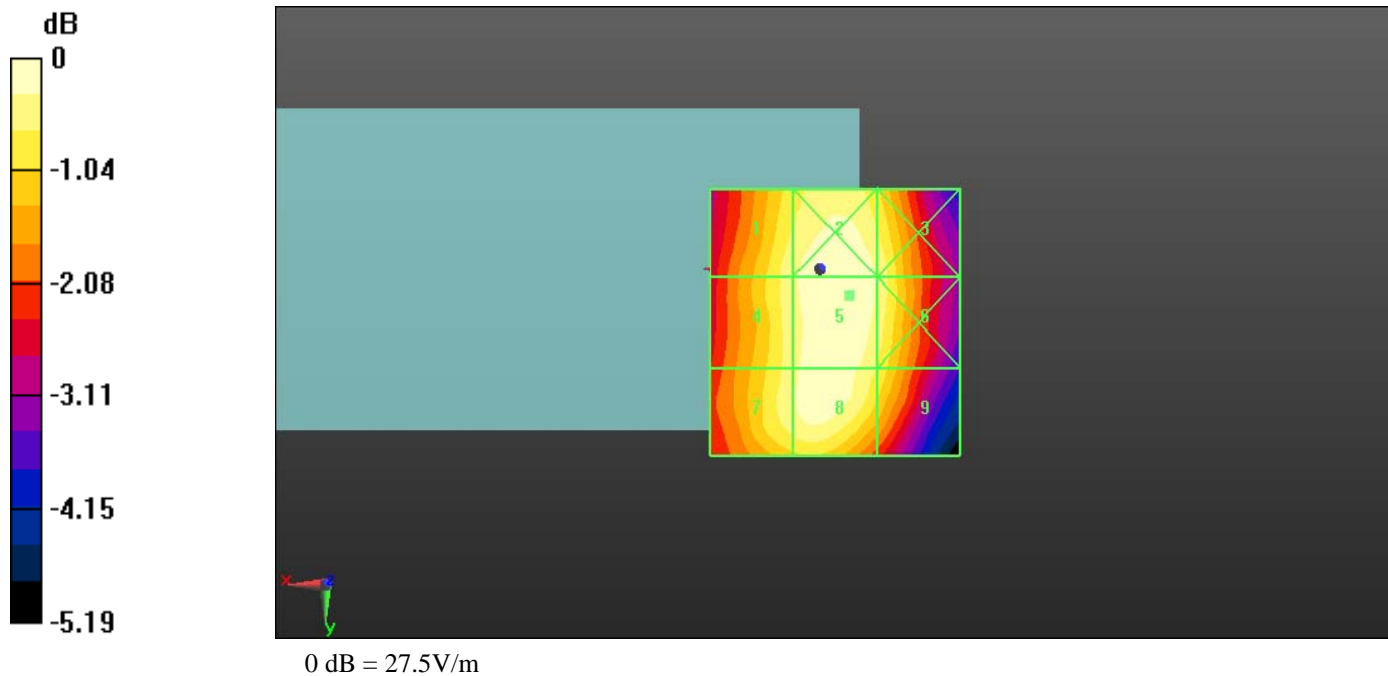
Reference Value = 30.6 V/m; Power Drift = 0.063 dB


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

Peak E-field in V/m

Grid 1 22.7 M4	Grid 2 26.9 M4	Grid 3 26.7 M4
Grid 4 23.0 M4	Grid 5 27.1 M4	Grid 6 27.1 M4
Grid 7 23.5 M4	Grid 8 27.5 M4	Grid 9 27.4 M4

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Date/Time: 1/19/2011 7:17:37 PM

Test Laboratory: RIM Testing Services

HAC_E_CDMA1900_low_chan

DUT: BlackBerry Smartphone

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

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

Phantom section: RF Section

DASY4 Configuration:

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

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

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 20.5 V/m; Power Drift = -0.338 dB

Maximum value of Total (measured) = 34.2 V/m

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

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 26.1 V/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

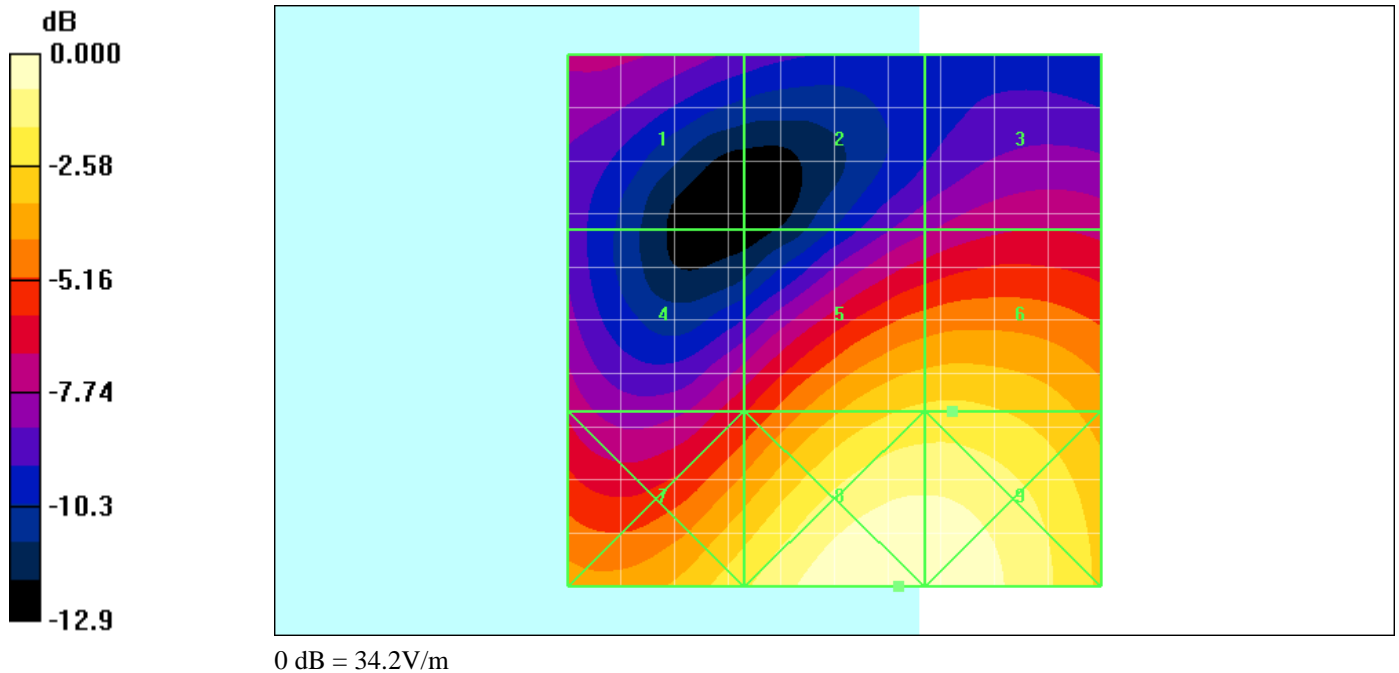
Reference Value = 20.5 V/m; Power Drift = -0.338 dB


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

Peak E-field in V/m

Grid 1 14.5 M4	Grid 2 13.9 M4	Grid 3 15.6 M4
Grid 4 17.0 M4	Grid 5 26.0 M4	Grid 6 26.1 M4
Grid 7 27.6 M4	Grid 8 34.2 M4	Grid 9 34.0 M4

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Date/Time: 1/19/2011 7:22:46 PM

Test Laboratory: RIM Testing Services

HAC_E_CDMA1900_mid_chan

DUT: BlackBerry Smartphone

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

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

Phantom section: RF Section

DASY4 Configuration:

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

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

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 20.3 V/m; Power Drift = 0.032 dB

Maximum value of Total (measured) = 32.4 V/m

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

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 25.0 V/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

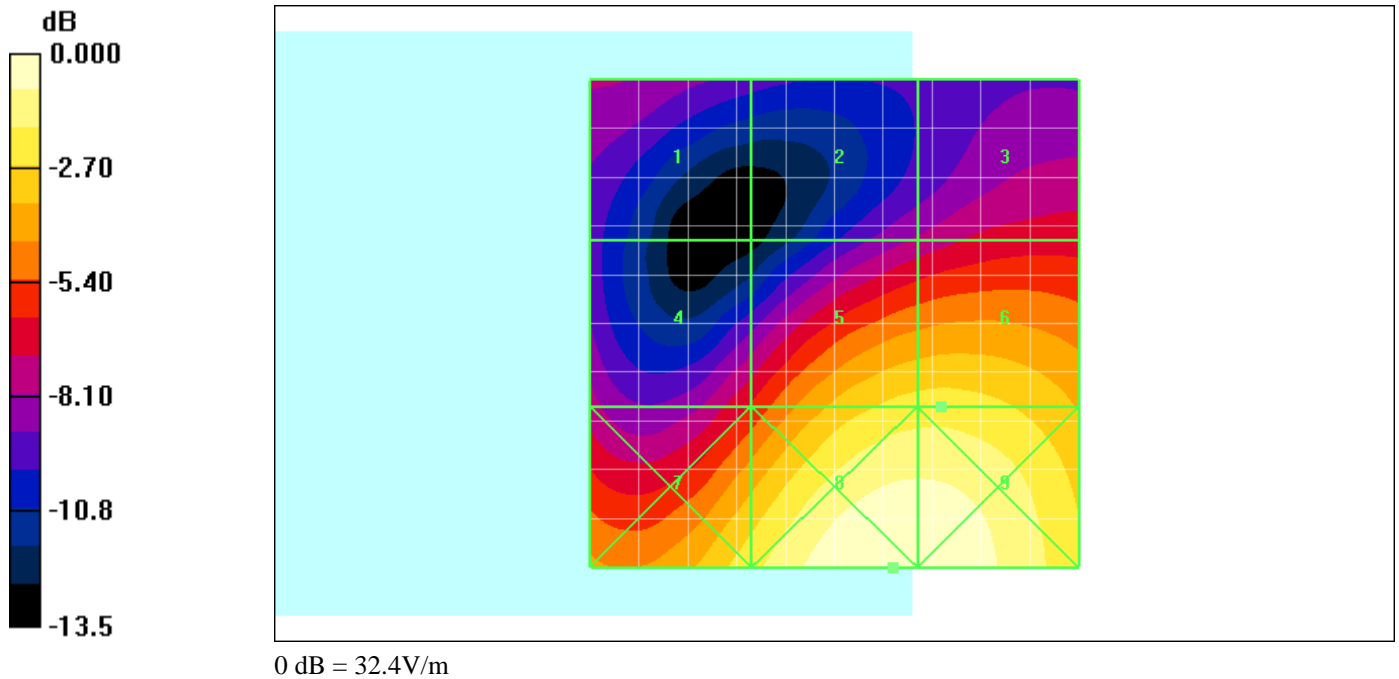
Reference Value = 20.3 V/m; Power Drift = 0.032 dB


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

Peak E-field in V/m

Grid 1 13.0 M4	Grid 2 13.1 M4	Grid 3 15.1 M4
Grid 4 16.0 M4	Grid 5 24.8 M4	Grid 6 25.0 M4
Grid 7 25.5 M4	Grid 8 32.4 M4	Grid 9 32.1 M4

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Date/Time: 1/19/2011 7:27:06 PM

Test Laboratory: RIM Testing Services

HAC_E_CDMA1900_high_chan

DUT: BlackBerry Smartphone

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

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

Phantom section: RF Section

DASY4 Configuration:

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

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

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 20.4 V/m; Power Drift = -0.143 dB

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

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

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 24.8 V/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

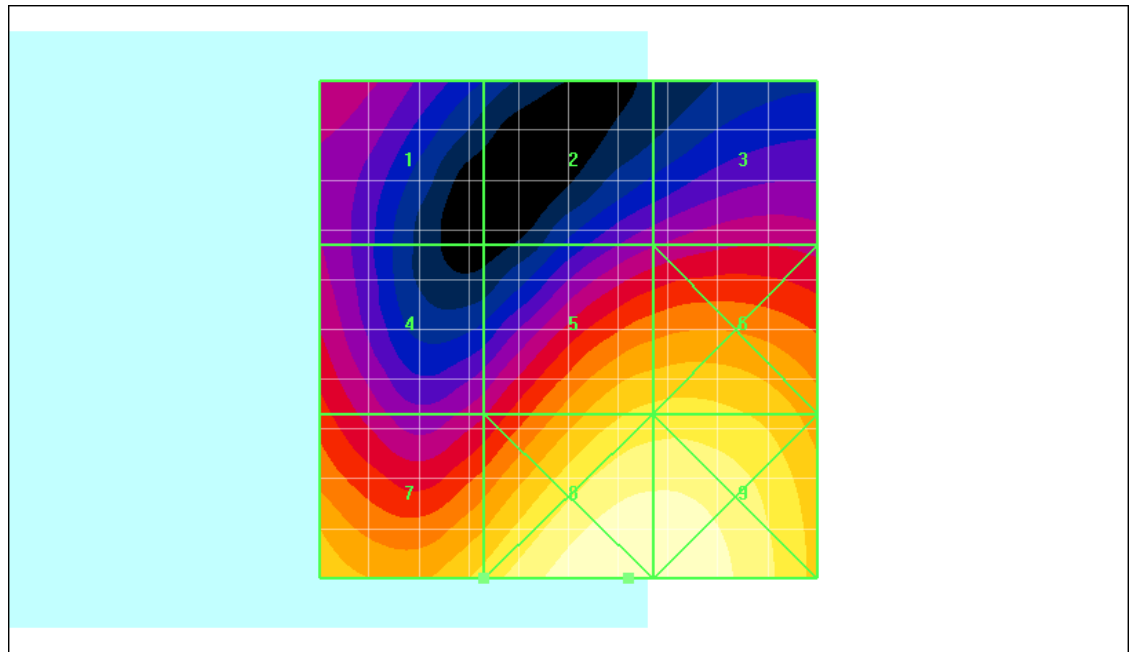
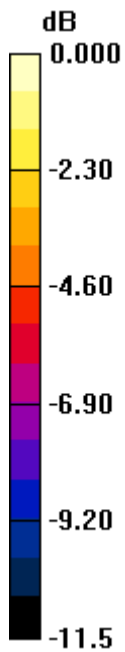
Reference Value = 20.4 V/m; Power Drift = -0.143 dB

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


Peak E-field in V/m

Grid 1 14.8 M4	Grid 2 14.0 M4	Grid 3 15.4 M4
Grid 4 17.6 M4	Grid 5 24.6 M4	Grid 6 24.9 M4
Grid 7 24.8 M4	Grid 8 31.2 M4	Grid 9 31.0 M4

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0 dB = 31.2V/m

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Date/Time: 1/19/2011 7:33:46 PM

Test Laboratory: RIM Testing Services

HAC_E_CDMA1900_low_chan_Telecoil_Center

DUT: BlackBerry Smartphone

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

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

Phantom section: RF Section

DASY4 Configuration:

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

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

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 18.9 V/m; Power Drift = -0.163 dB

Maximum value of Total (measured) = 30.4 V/m

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

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 21.2 V/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

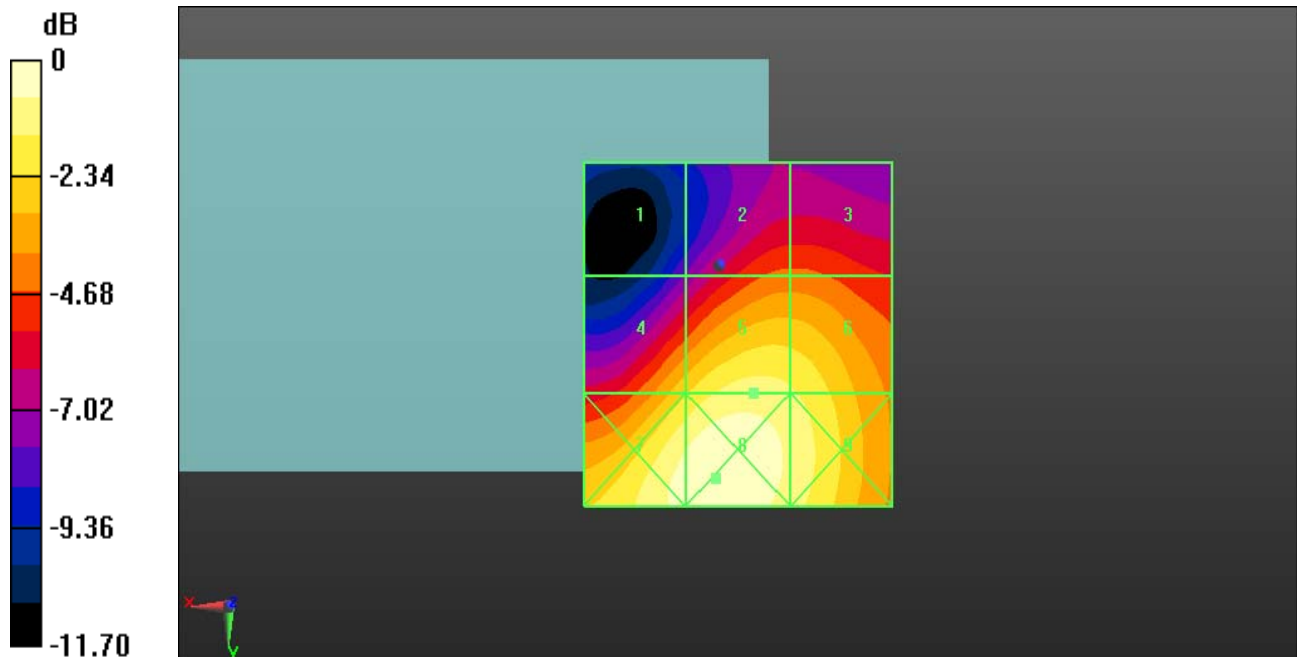
Reference Value = 18.9 V/m; Power Drift = -0.163 dB

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


Peak E-field in V/m

Grid 1 15.1 M4	Grid 2 12.7 M4	Grid 3 12.8 M4
Grid 4 13.7 M4	Grid 5 21.1 M4	Grid 6 21.2 M4
Grid 7 24.0 M4	Grid 8 30.4 M4	Grid 9 30.1 M4

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0 dB = 30.4V/m

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Date/Time: 1/19/2011 8:20:04 PM

Test Laboratory: RIM Testing Services

HAC_H_GSM850_low_chan

DUT: BlackBerry Smartphone

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

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

Phantom section: RF Section

DASY4 Configuration:

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

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.080 A/m; Power Drift = 0.097 dB

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

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 0.372 A/m

Probe Modulation Factor = 2.79


Device Reference Point: 0.000, 0.000, -6.30 mm

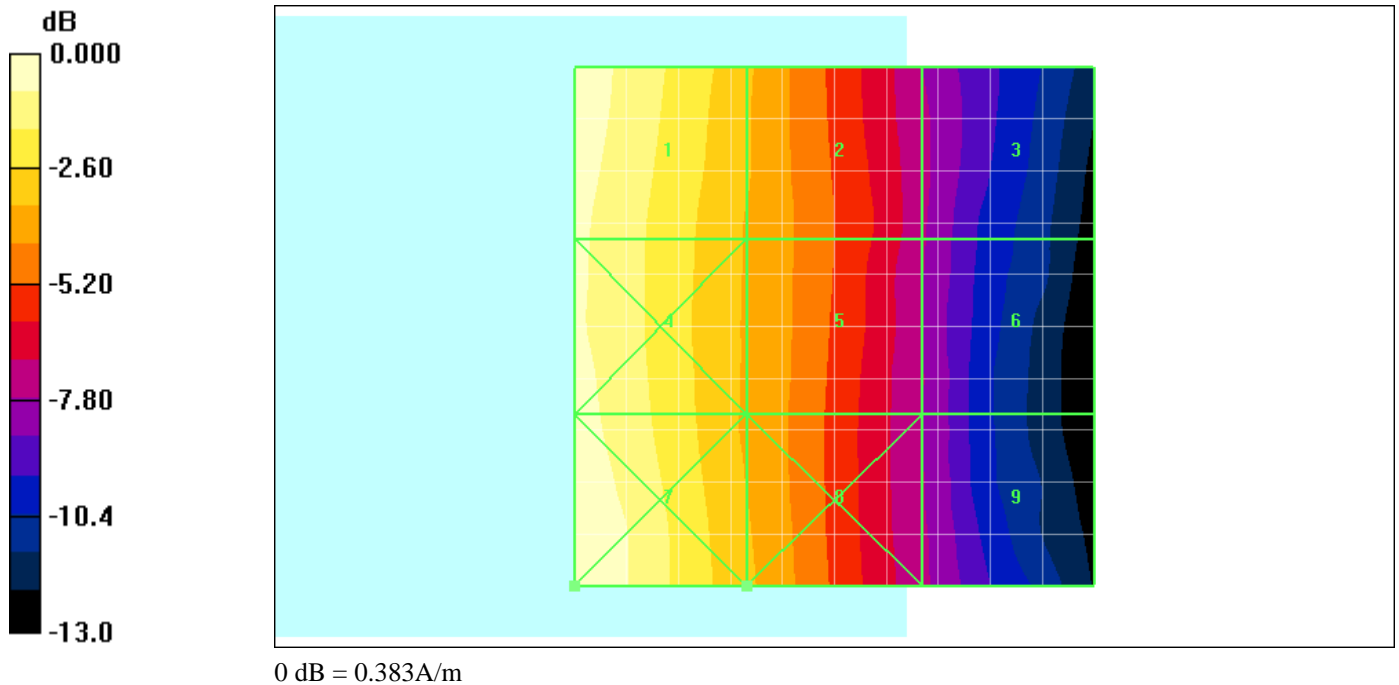
Reference Value = 0.080 A/m; Power Drift = 0.097 dB


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

Peak H-field in A/m

Grid 1 0.372 M4	Grid 2 0.263 M4	Grid 3 0.161 M4
Grid 4 0.362 M4	Grid 5 0.256 M4	Grid 6 0.159 M4
Grid 7 0.383 M4	Grid 8 0.263 M4	Grid 9 0.160 M4

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Date/Time: 1/19/2011 8:25:45 PM

Test Laboratory: RIM Testing Services

HAC_H_GSM850_mid_chan

DUT: BlackBerry Smartphone

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

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

Phantom section: RF Section

DASY4 Configuration:

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

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.093 A/m; Power Drift = -0.224 dB

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

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 0.417 A/m

Probe Modulation Factor = 2.79


Device Reference Point: 0.000, 0.000, -6.30 mm

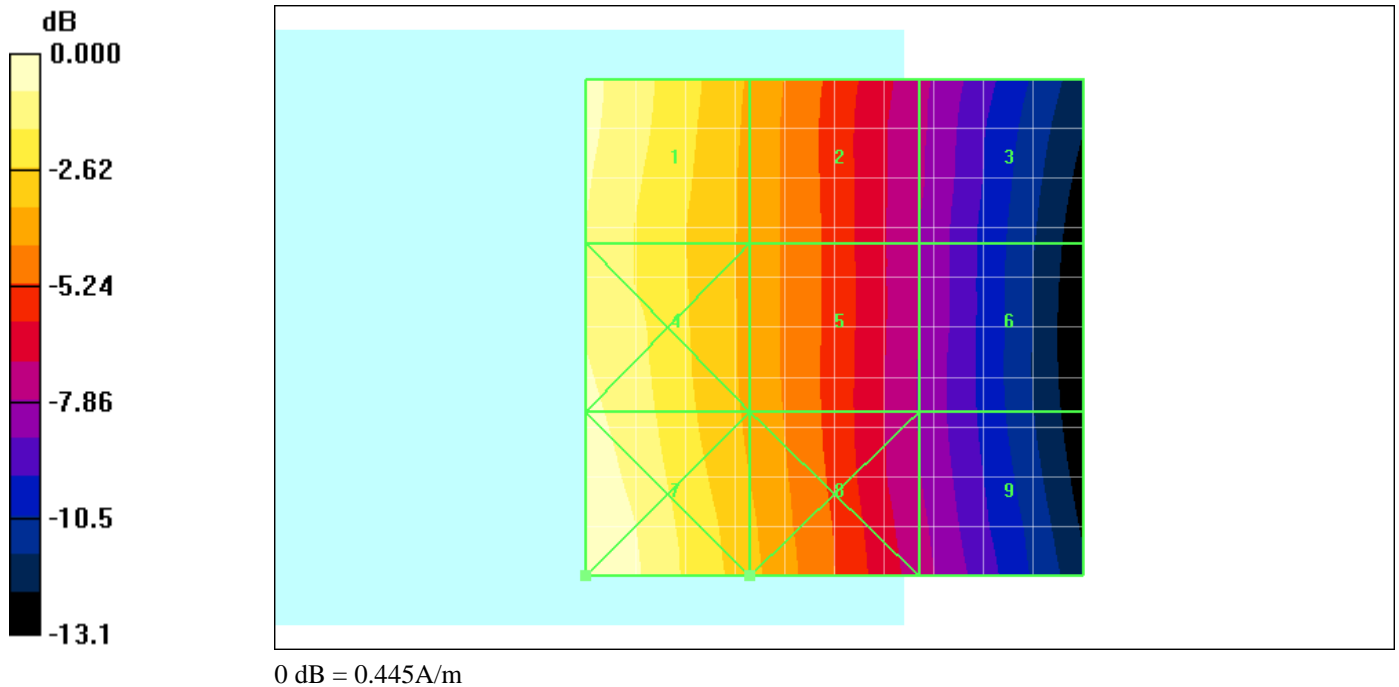
Reference Value = 0.093 A/m; Power Drift = -0.224 dB


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

Peak H-field in A/m

Grid 1 0.417 M4	Grid 2 0.294 M4	Grid 3 0.187 M4
Grid 4 0.412 M4	Grid 5 0.292 M4	Grid 6 0.182 M4
Grid 7 0.445 M4	Grid 8 0.309 M4	Grid 9 0.190 M4

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Date/Time: 1/19/2011 8:31:02 PM

Test Laboratory: RIM Testing Services

HAC_H_GSM850_high_chan

DUT: BlackBerry Smartphone

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

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

Phantom section: RF Section

DASY4 Configuration:

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

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.115 A/m; Power Drift = 0.070 dB

Maximum value of Total (measured) = 0.191 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 0.533 A/m

Probe Modulation Factor = 2.79


Device Reference Point: 0.000, 0.000, -6.30 mm

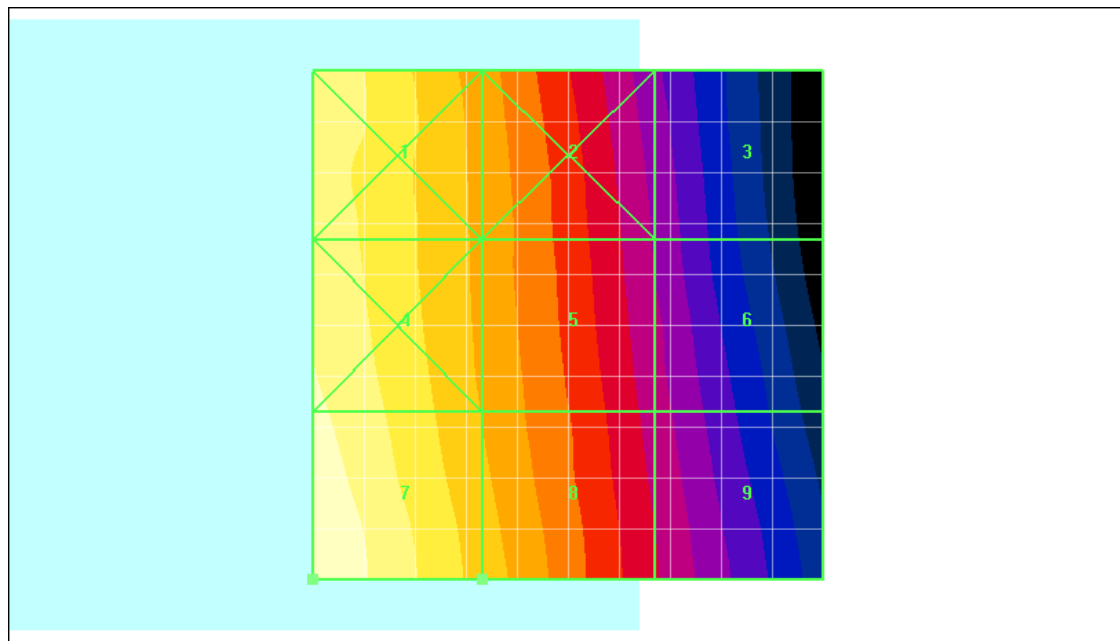
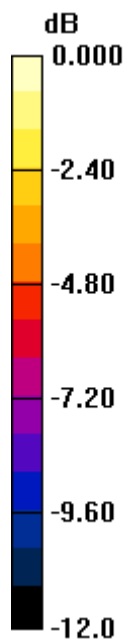
Reference Value = 0.115 A/m; Power Drift = 0.070 dB

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


Peak H-field in A/m

Grid 1 0.487 M3	Grid 2 0.360 M4	Grid 3 0.231 M4
Grid 4 0.498 M3	Grid 5 0.368 M4	Grid 6 0.245 M4
Grid 7 0.533 M3	Grid 8 0.390 M4	Grid 9 0.259 M4

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0 dB = 0.533A/m

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Date/Time: 1/19/2011 8:35:34 PM

Test Laboratory: RIM Testing Services

HAC_H_GSM850_high_chan_Telecoil_Center

DUT: BlackBerry Smartphone

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

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

Phantom section: RF Section

DASY4 Configuration:

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

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.116 A/m; Power Drift = -0.077 dB

Maximum value of Total (measured) = 0.202 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 0.562 A/m

Probe Modulation Factor = 2.79


Device Reference Point: 0.000, 0.000, -6.30 mm

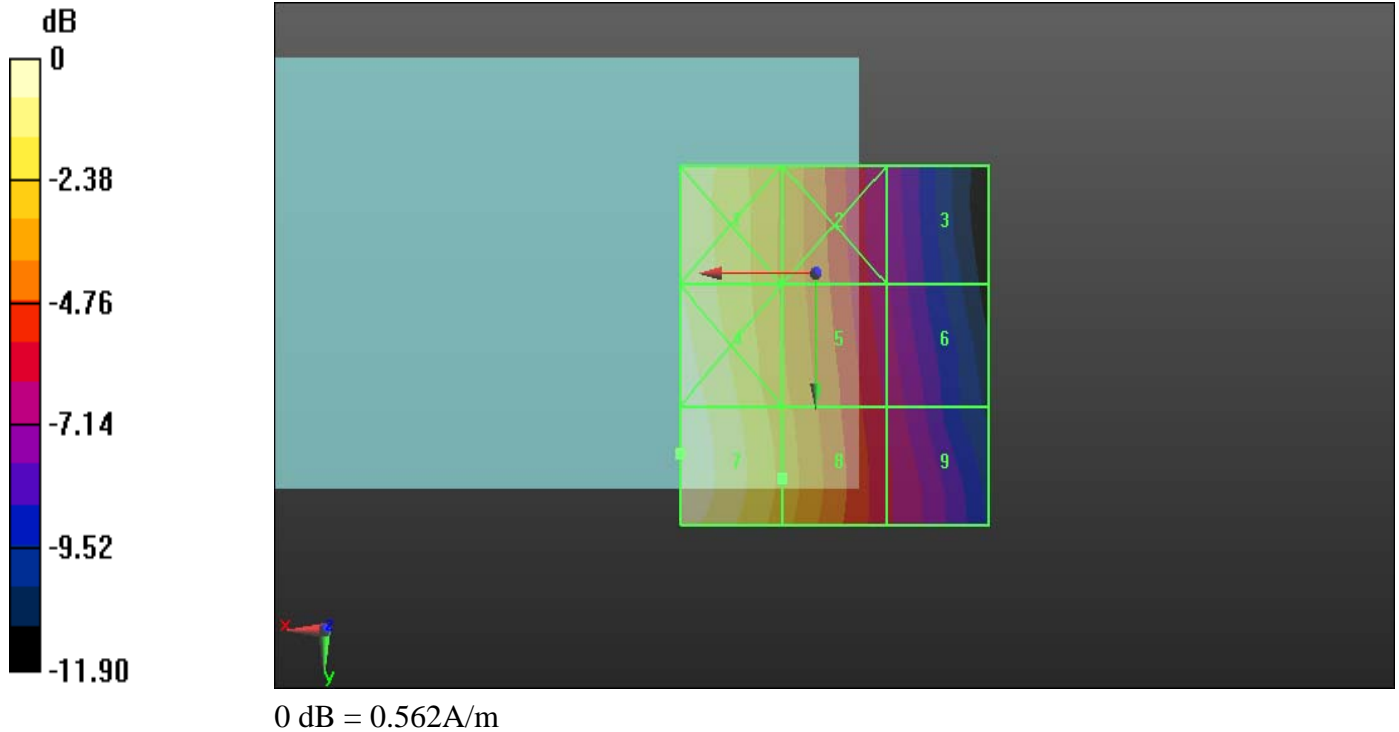
Reference Value = 0.116 A/m; Power Drift = -0.077 dB


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

Peak H-field in A/m

Grid 1 0.509 M3	Grid 2 0.385 M4	Grid 3 0.258 M4
Grid 4 0.515 M3	Grid 5 0.395 M4	Grid 6 0.270 M4
Grid 7 0.562 M3	Grid 8 0.421 M4	Grid 9 0.282 M4

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Date/Time: 1/19/2011 8:41:39 PM

Test Laboratory: RIM Testing Services

HAC_H_GSM1900_low_chan

DUT: BlackBerry Smartphone

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

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

Phantom section: RF Section

DASY4 Configuration:

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

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.065 A/m; Power Drift = 0.234 dB

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

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 0.152 A/m

Probe Modulation Factor = 2.52


Device Reference Point: 0.000, 0.000, -6.30 mm

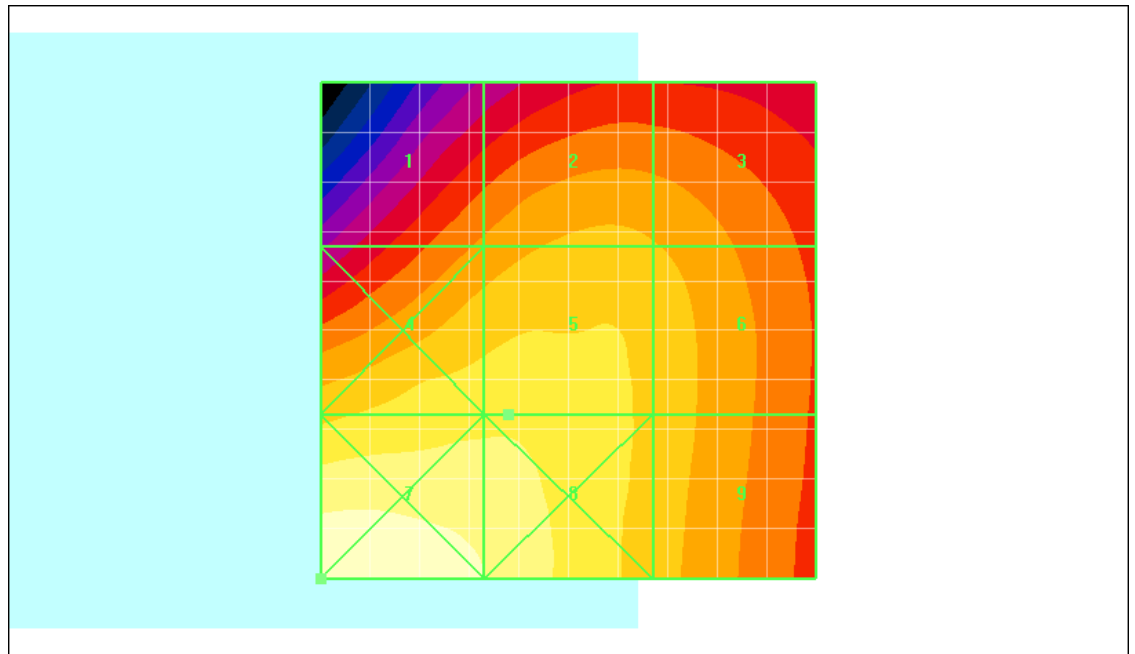
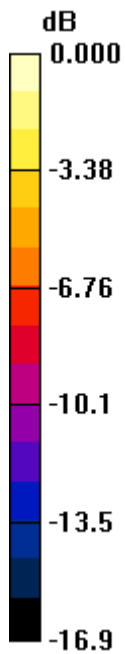
Reference Value = 0.065 A/m; Power Drift = 0.234 dB

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


Peak H-field in A/m

Grid 1 0.109 M4	Grid 2 0.125 M4	Grid 3 0.122 M4
Grid 4 0.151 M3	Grid 5 0.152 M3	Grid 6 0.132 M4
Grid 7 0.202 M3	Grid 8 0.178 M3	Grid 9 0.132 M4

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0 dB = 0.202A/m

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Date/Time: 1/19/2011 8:46:19 PM

Test Laboratory: RIM Testing Services

HAC_H_GSM1900_mid_chan

DUT: BlackBerry Smartphone

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

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

Phantom section: RF Section

DASY4 Configuration:

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

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.066 A/m; Power Drift = 0.052 dB

Maximum value of Total (measured) = 0.082 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 0.155 A/m

Probe Modulation Factor = 2.52


Device Reference Point: 0.000, 0.000, -6.30 mm

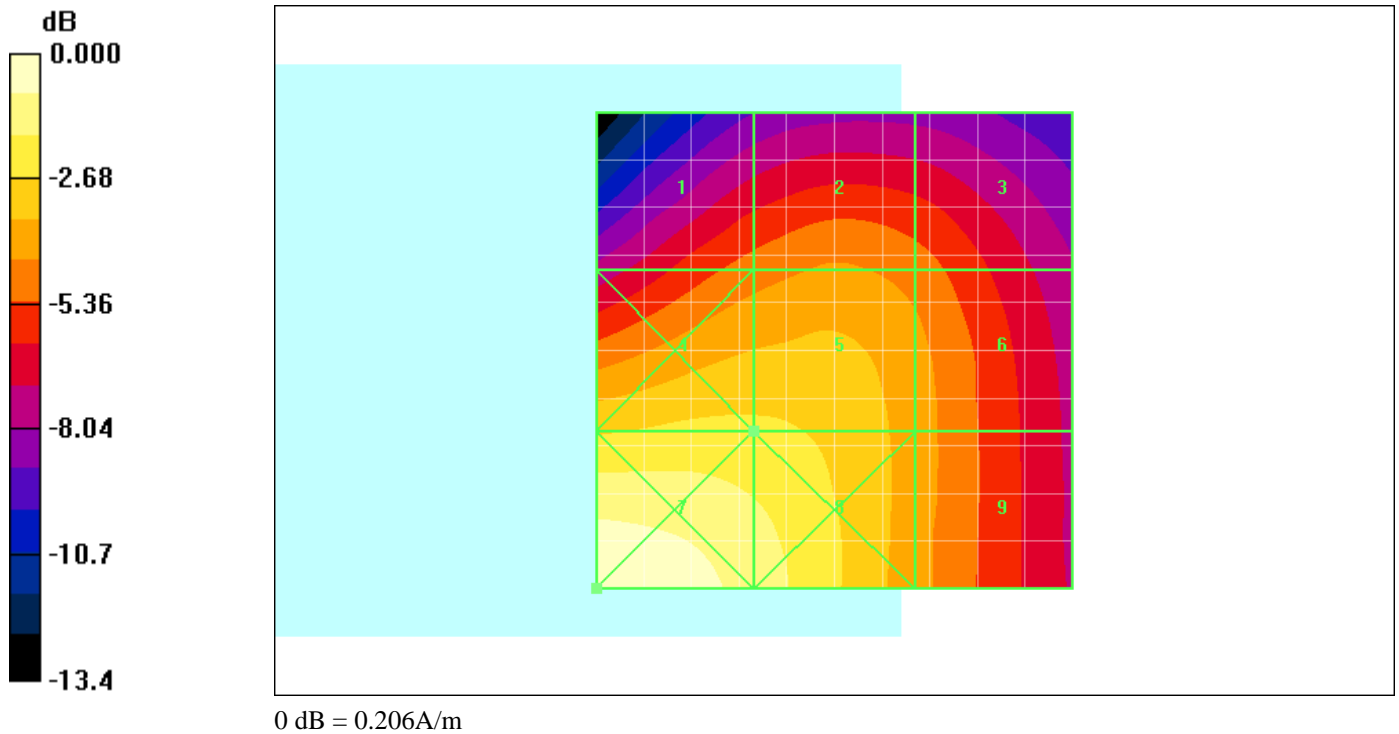
Reference Value = 0.066 A/m; Power Drift = 0.052 dB


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

Peak H-field in A/m

Grid 1 0.117 M4	Grid 2 0.125 M4	Grid 3 0.117 M4
Grid 4 0.156 M3	Grid 5 0.155 M3	Grid 6 0.130 M4
Grid 7 0.206 M3	Grid 8 0.178 M3	Grid 9 0.130 M4

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Date/Time: 1/19/2011 8:50:41 PM

Test Laboratory: RIM Testing Services

HAC_H_GSM1900_high_chan

DUT: BlackBerry Smartphone

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

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

Phantom section: RF Section

DASY4 Configuration:

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

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.061 A/m; Power Drift = -0.032 dB

Maximum value of Total (measured) = 0.091 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 0.159 A/m

Probe Modulation Factor = 2.52


Device Reference Point: 0.000, 0.000, -6.30 mm

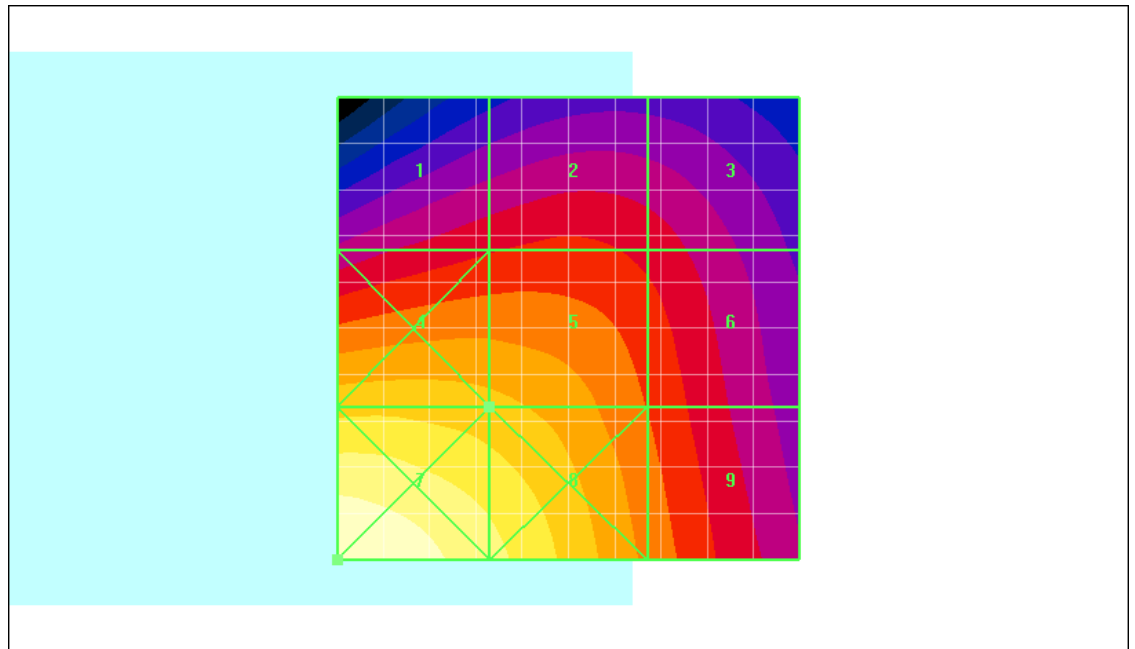
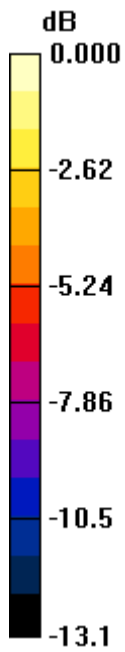
Reference Value = 0.061 A/m; Power Drift = -0.032 dB

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


Peak H-field in A/m

Grid 1 0.113 M4	Grid 2 0.117 M4	Grid 3 0.110 M4
Grid 4 0.165 M3	Grid 5 0.159 M3	Grid 6 0.125 M4
Grid 7 0.229 M3	Grid 8 0.194 M3	Grid 9 0.136 M4

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0 dB = 0.229A/m

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Date/Time: 1/19/2011 8:56:42 PM

Test Laboratory: RIM Testing Services

HAC_H_GSM1900_high_chan_Telecoil_Center

DUT: BlackBerry Smartphone

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

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

Phantom section: RF Section

DASY4 Configuration:

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

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.061 A/m; Power Drift = -0.076 dB

Maximum value of Total (measured) = 0.087 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 0.153 A/m

Probe Modulation Factor = 2.52


Device Reference Point: 0.000, 0.000, -6.30 mm

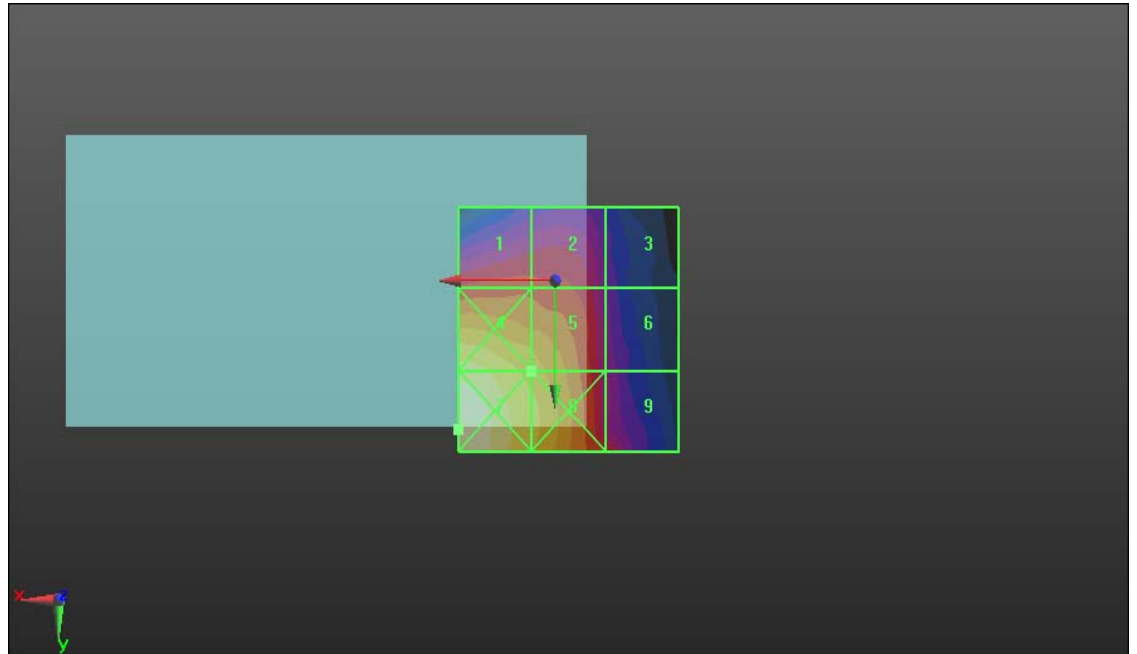
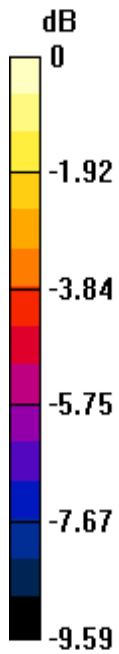
Reference Value = 0.061 A/m; Power Drift = -0.076 dB

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


Peak H-field in A/m

Grid 1 0.103 M4	Grid 2 0.111 M4	Grid 3 0.111 M4
Grid 4 0.153 M3	Grid 5 0.153 M3	Grid 6 0.133 M4
Grid 7 0.220 M3	Grid 8 0.199 M3	Grid 9 0.146 M3

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0 dB = 0.220A/m

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Date/Time: 1/19/2011 9:04:35 PM

Test Laboratory: RIM Testing Services

HAC_H_CDMA800_low_chan

DUT: BlackBerry Smartphone

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

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

Phantom section: RF Section

DASY4 Configuration:

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

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.035 A/m; Power Drift = -0.804 dB

Maximum value of Total (measured) = 0.059 A/m

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 0.057 A/m

Probe Modulation Factor = 1.01


Device Reference Point: 0.000, 0.000, -6.30 mm

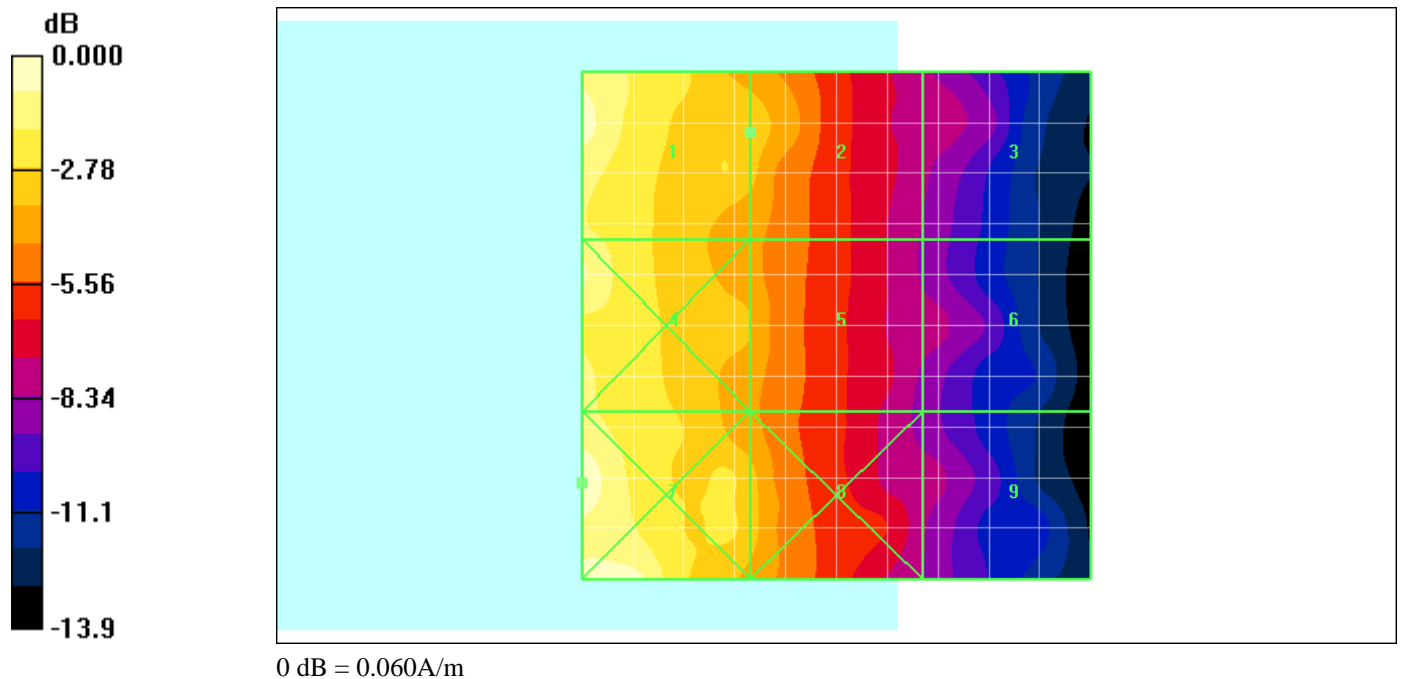
Reference Value = 0.035 A/m; Power Drift = -0.804 dB


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

Peak H-field in A/m

Grid 1 0.057 M4	Grid 2 0.041 M4	Grid 3 0.025 M4
Grid 4 0.055 M4	Grid 5 0.040 M4	Grid 6 0.025 M4
Grid 7 0.060 M4	Grid 8 0.041 M4	Grid 9 0.025 M4

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Date/Time: 1/19/2011 9:08:52 PM

Test Laboratory: RIM Testing Services

HAC_H_CDMA800_mid_chan

DUT: BlackBerry Smartphone

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

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

Phantom section: RF Section

DASY4 Configuration:

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

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.035 A/m; Power Drift = -0.904 dB

Maximum value of Total (measured) = 0.053 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 0.051 A/m

Probe Modulation Factor = 1.01


Device Reference Point: 0.000, 0.000, -6.30 mm

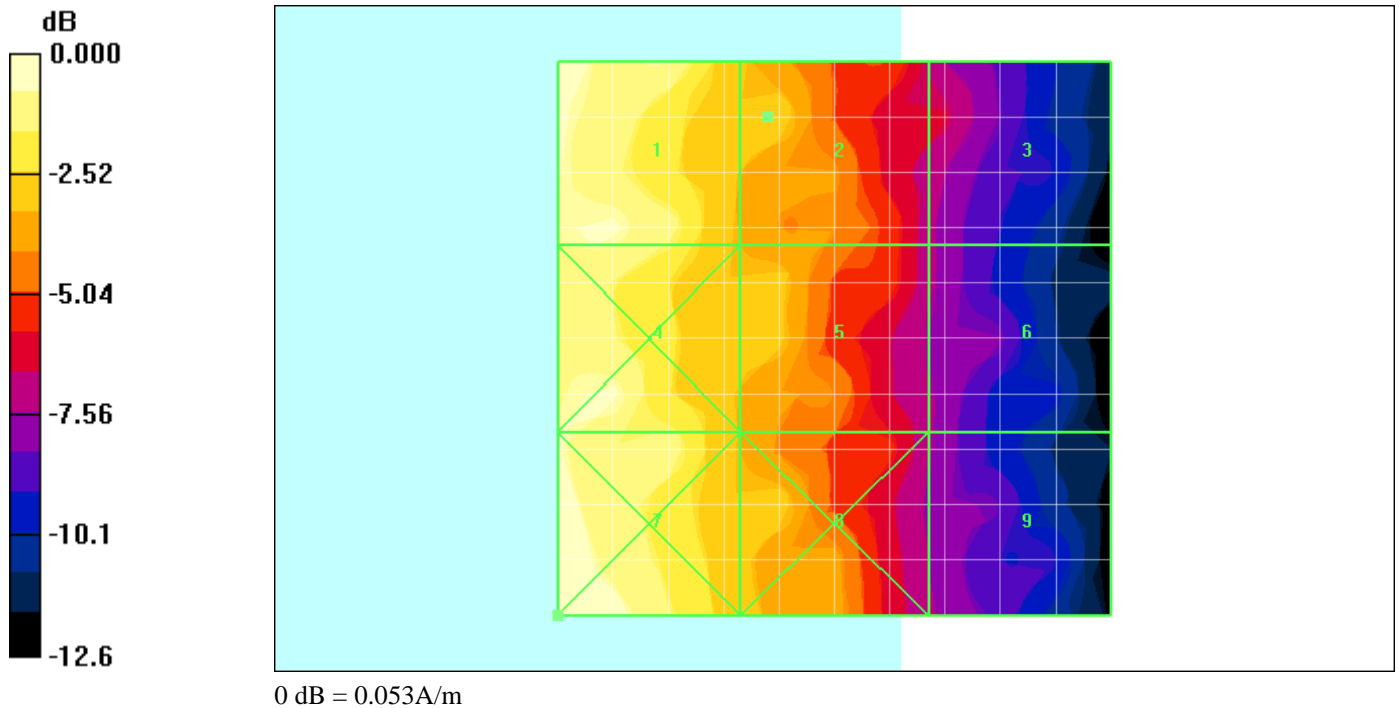
Reference Value = 0.035 A/m; Power Drift = -0.904 dB


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

Peak H-field in A/m

Grid 1 0.051 M4	Grid 2 0.039 M4	Grid 3 0.026 M4
Grid 4 0.050 M4	Grid 5 0.038 M4	Grid 6 0.023 M4
Grid 7 0.053 M4	Grid 8 0.039 M4	Grid 9 0.023 M4

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Date/Time: 1/19/2011 9:14:16 PM

Test Laboratory: RIM Testing Services

HAC_H_CDMA800_high_chan

DUT: BlackBerry Smartphone

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

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

Phantom section: RF Section

DASY4 Configuration:

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

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.034 A/m; Power Drift = 1.04 dB

Maximum value of Total (measured) = 0.062 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 0.053 A/m

Probe Modulation Factor = 1.01


Device Reference Point: 0.000, 0.000, -6.30 mm

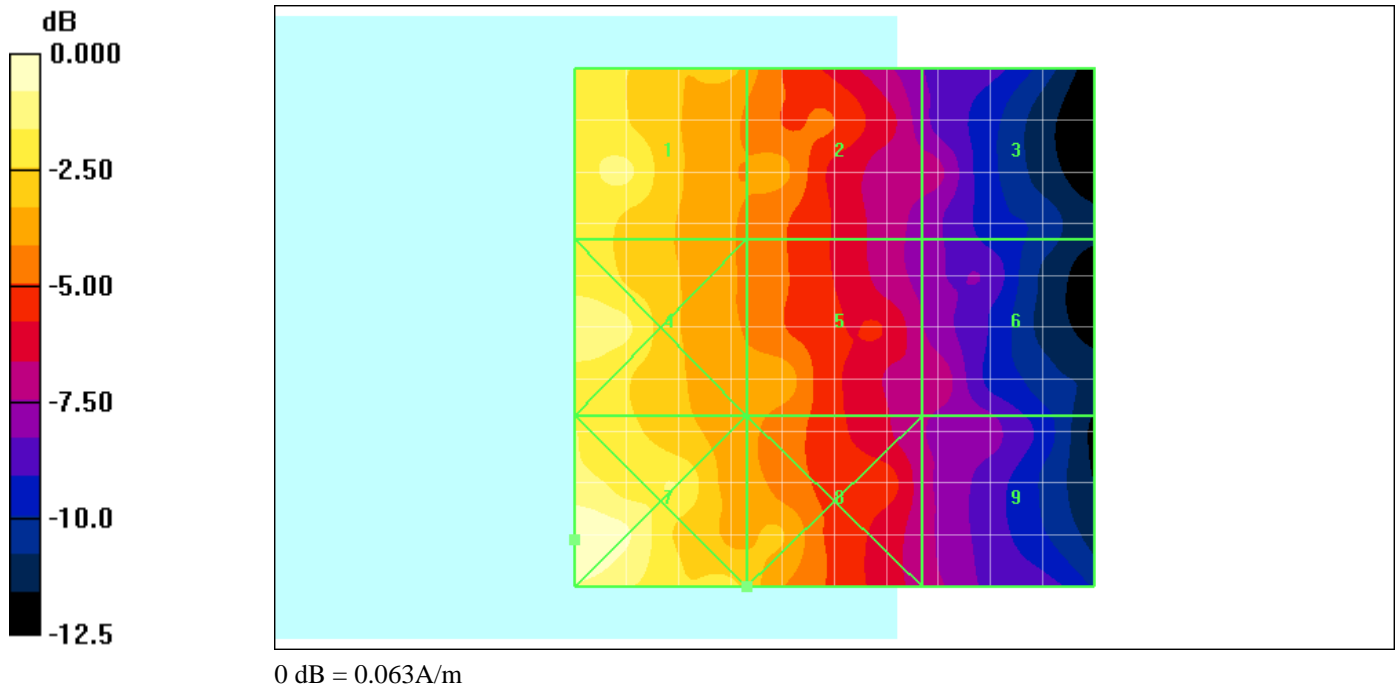
Reference Value = 0.034 A/m; Power Drift = 1.04 dB


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

Peak H-field in A/m

Grid 1 0.053 M4	Grid 2 0.042 M4	Grid 3 0.028 M4
Grid 4 0.056 M4	Grid 5 0.042 M4	Grid 6 0.029 M4
Grid 7 0.063 M4	Grid 8 0.046 M4	Grid 9 0.028 M4

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Date/Time: 1/19/2011 9:20:14 PM

Test Laboratory: RIM Testing Services

HAC_H_CDMA800_low_chan_Telecoil_Center

DUT: BlackBerry Smartphone

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

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

Phantom section: RF Section

DASY4 Configuration:

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

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.035 A/m; Power Drift = -0.835 dB

Maximum value of Total (measured) = 0.057 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 0.053 A/m

Probe Modulation Factor = 1.01


Device Reference Point: 0.000, 0.000, -6.30 mm

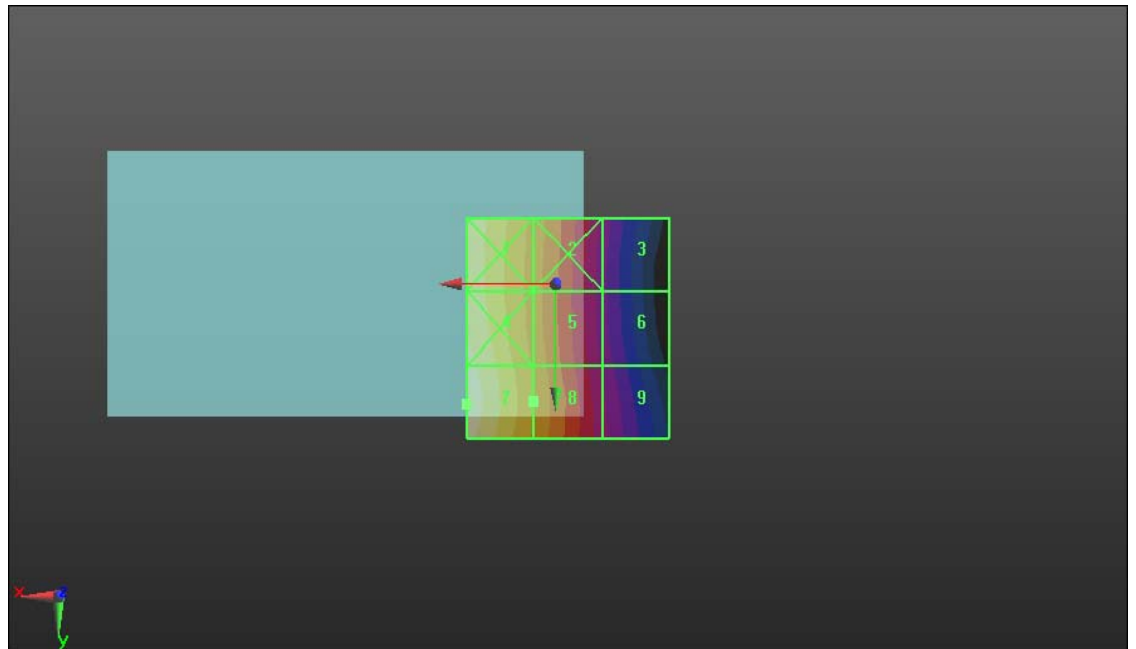
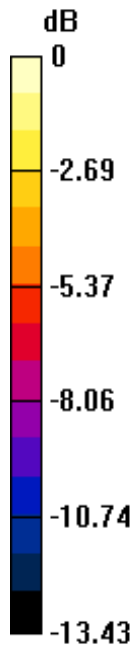
Reference Value = 0.035 A/m; Power Drift = -0.835 dB

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


Peak H-field in A/m

Grid 1 0.053 M4	Grid 2 0.039 M4	Grid 3 0.027 M4
Grid 4 0.056 M4	Grid 5 0.039 M4	Grid 6 0.027 M4
Grid 7 0.058 M4	Grid 8 0.040 M4	Grid 9 0.026 M4

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0 dB = 0.058A/m

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Date/Time: 1/19/2011 9:26:27 PM

Test Laboratory: RIM Testing Services

HAC_H_CDMA1900_low_chan

DUT: BlackBerry Smartphone

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

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

Phantom section: RF Section

DASY4 Configuration:

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

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.032 A/m; Power Drift = 0.232 dB

Maximum value of Total (measured) = 0.038 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 0.031 A/m

Probe Modulation Factor = 1.08


Device Reference Point: 0.000, 0.000, -6.30 mm

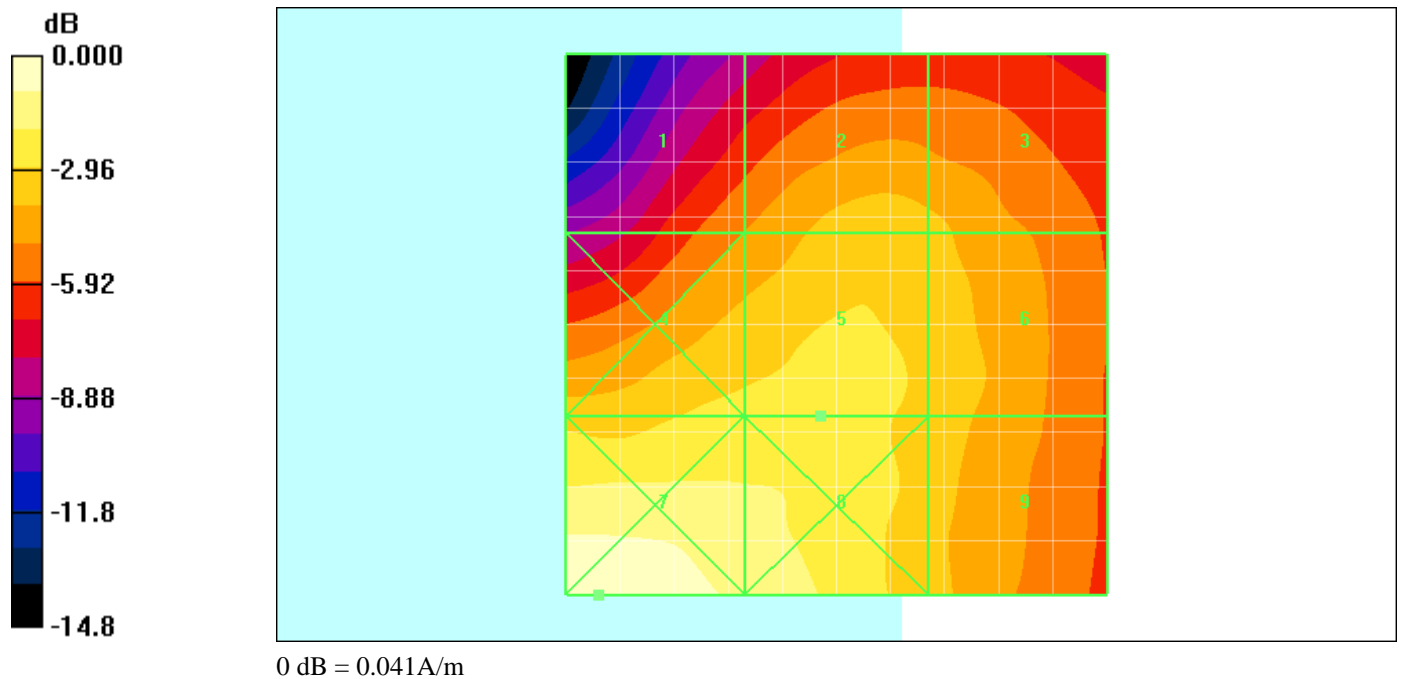
Reference Value = 0.032 A/m; Power Drift = 0.232 dB


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

Peak H-field in A/m

Grid 1 0.023 M4	Grid 2 0.028 M4	Grid 3 0.027 M4
Grid 4 0.030 M4	Grid 5 0.031 M4	Grid 6 0.028 M4
Grid 7 0.041 M4	Grid 8 0.036 M4	Grid 9 0.028 M4

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Date/Time: 1/19/2011 9:32:46 PM

Test Laboratory: RIM Testing Services

HAC_H_CDMA1900_mid_chan

DUT: BlackBerry Smartphone

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

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

Phantom section: RF Section

DASY4 Configuration:

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

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.032 A/m; Power Drift = -0.069 dB

Maximum value of Total (measured) = 0.040 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 0.032 A/m

Probe Modulation Factor = 1.08


Device Reference Point: 0.000, 0.000, -6.30 mm

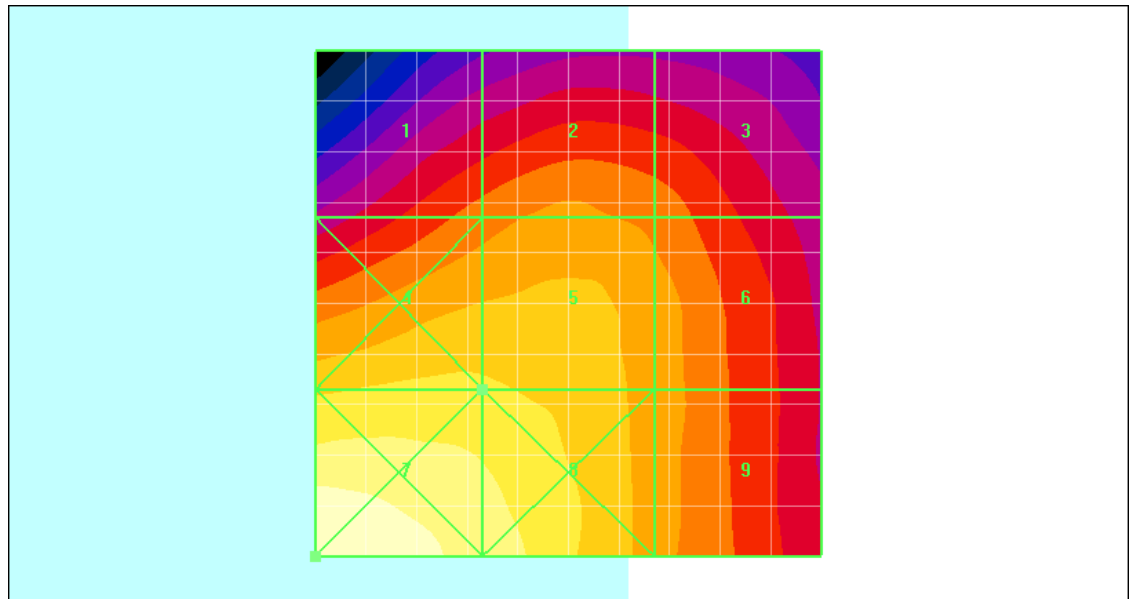
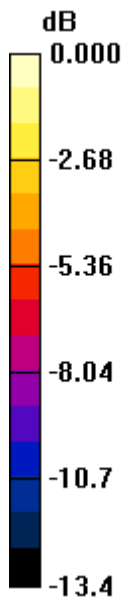
Reference Value = 0.032 A/m; Power Drift = -0.069 dB

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


Peak H-field in A/m

Grid 1 0.024 M4	Grid 2 0.027 M4	Grid 3 0.025 M4
Grid 4 0.033 M4	Grid 5 0.032 M4	Grid 6 0.027 M4
Grid 7 0.043 M4	Grid 8 0.037 M4	Grid 9 0.027 M4

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0 dB = 0.043A/m

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Date/Time: 1/19/2011 9:37:14 PM

Test Laboratory: RIM Testing Services

HAC_H_CDMA1900_high_chan

DUT: BlackBerry Smartphone

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

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

Phantom section: RF Section

DASY4 Configuration:

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

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.030 A/m; Power Drift = -0.006 dB

Maximum value of Total (measured) = 0.044 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 0.034 A/m

Probe Modulation Factor = 1.08


Device Reference Point: 0.000, 0.000, -6.30 mm

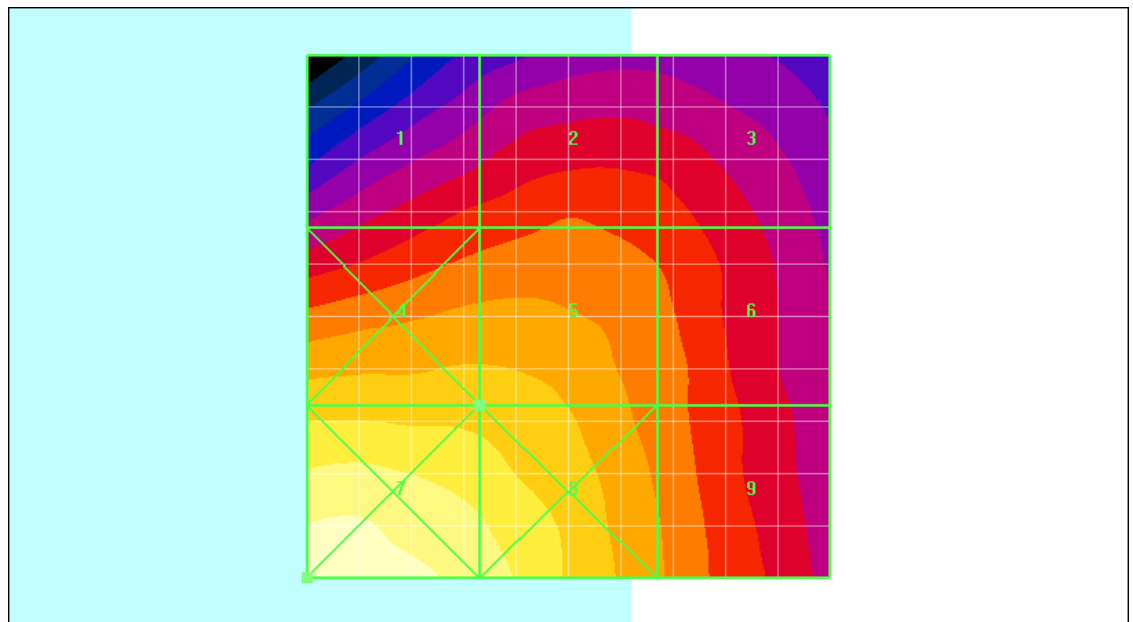
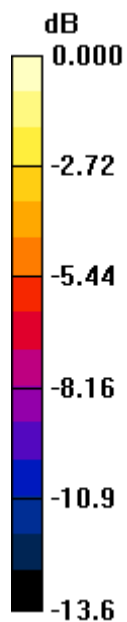
Reference Value = 0.030 A/m; Power Drift = -0.006 dB

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


Peak H-field in A/m

Grid 1 0.024 M4	Grid 2 0.026 M4	Grid 3 0.025 M4
Grid 4 0.034 M4	Grid 5 0.034 M4	Grid 6 0.027 M4
Grid 7 0.048 M4	Grid 8 0.041 M4	Grid 9 0.029 M4

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0 dB = 0.048A/m

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Date/Time: 1/19/2011 9:42:28 PM

Test Laboratory: RIM Testing Services

HAC_H_CDMA1900_high_chan_Telecoil_Center

DUT: BlackBerry Smartphone

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

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

Phantom section: RF Section

DASY4 Configuration:

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

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.031 A/m; Power Drift = -0.179 dB

Maximum value of Total (measured) = 0.042 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 0.032 A/m

Probe Modulation Factor = 1.08


Device Reference Point: 0.000, 0.000, -6.30 mm

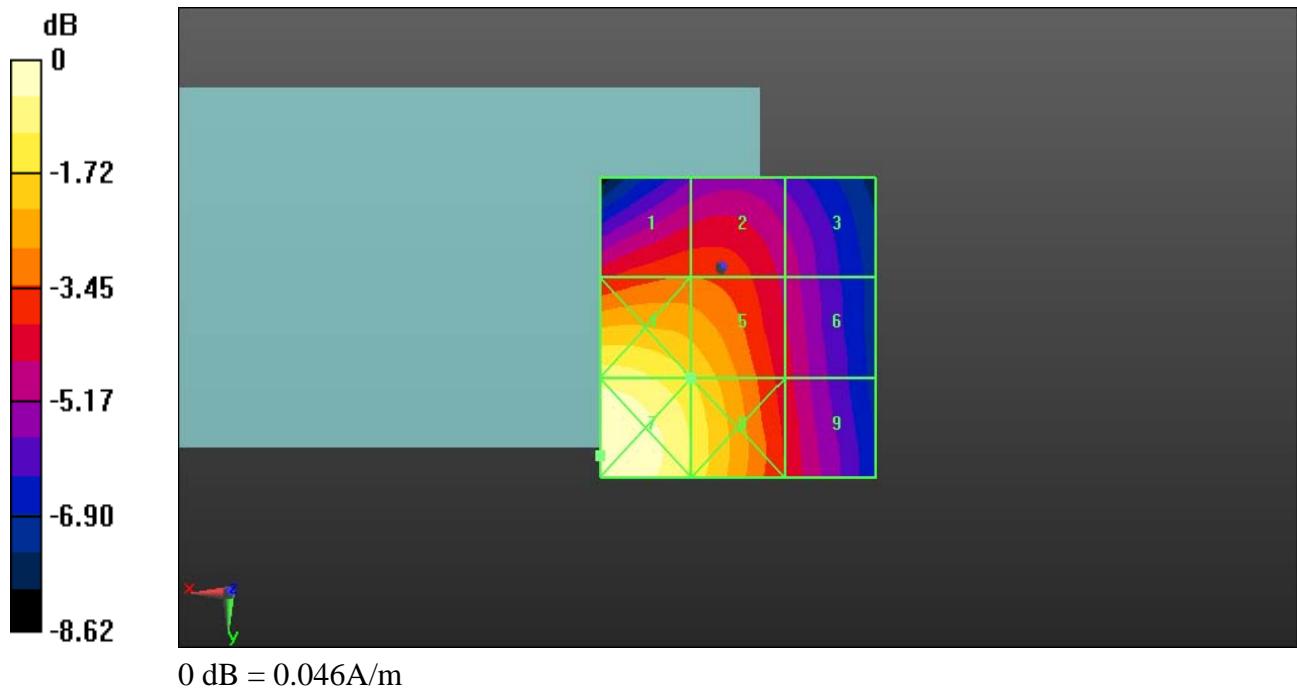
Reference Value = 0.031 A/m; Power Drift = -0.179 dB


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

Peak H-field in A/m

Grid 1 0.023 M4	Grid 2 0.024 M4	Grid 3 0.023 M4
Grid 4 0.032 M4	Grid 5 0.032 M4	Grid 6 0.026 M4
Grid 7 0.046 M4	Grid 8 0.039 M4	Grid 9 0.027 M4

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Date/Time: 4/6/2011 2:30:28 PM, Date/Time: 4/6/2011 2:42:46 PM, Date/Time: 4/6/2011 2:46:30 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_UMTS_band_IV

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD IV; Communication System Band:
Exported from older format (data unavailable - please correct).; Frequency:
1712.4 MHz, Frequency: 1732.6 MHz, Frequency: 1752.6 MHz; Communication
System PAR: 0 dB

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

Phantom section: RF Section

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

DASY5 Configuration:


- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 31.098 V/m

Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

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Reference Value = 31.280 V/m; Power Drift = 0.13 dB

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

Peak E-field in V/m

Grid 1 16.068 M4	Grid 2 28.578 M4	Grid 3 29.372 M4
Grid 4 20.561 M4	Grid 5 31.098 M4	Grid 6 31.378 M4
Grid 7 27.336 M4	Grid 8 31.736 M4	Grid 9 31.725 M4

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device 2/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 28.309 V/m


Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 27.982 V/m; Power Drift = 0.02 dB

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

Peak E-field in V/m

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Grid 1 13.520 M4	Grid 2 25.549 M4	Grid 3 26.505 M4
Grid 4 18.092 M4	Grid 5 28.309 M4	Grid 6 28.950 M4
Grid 7 25.263 M4	Grid 8 28.989 M4	Grid 9 29.090 M4

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device 2 2/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm


Maximum value of peak Total field = 26.432 V/m

Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

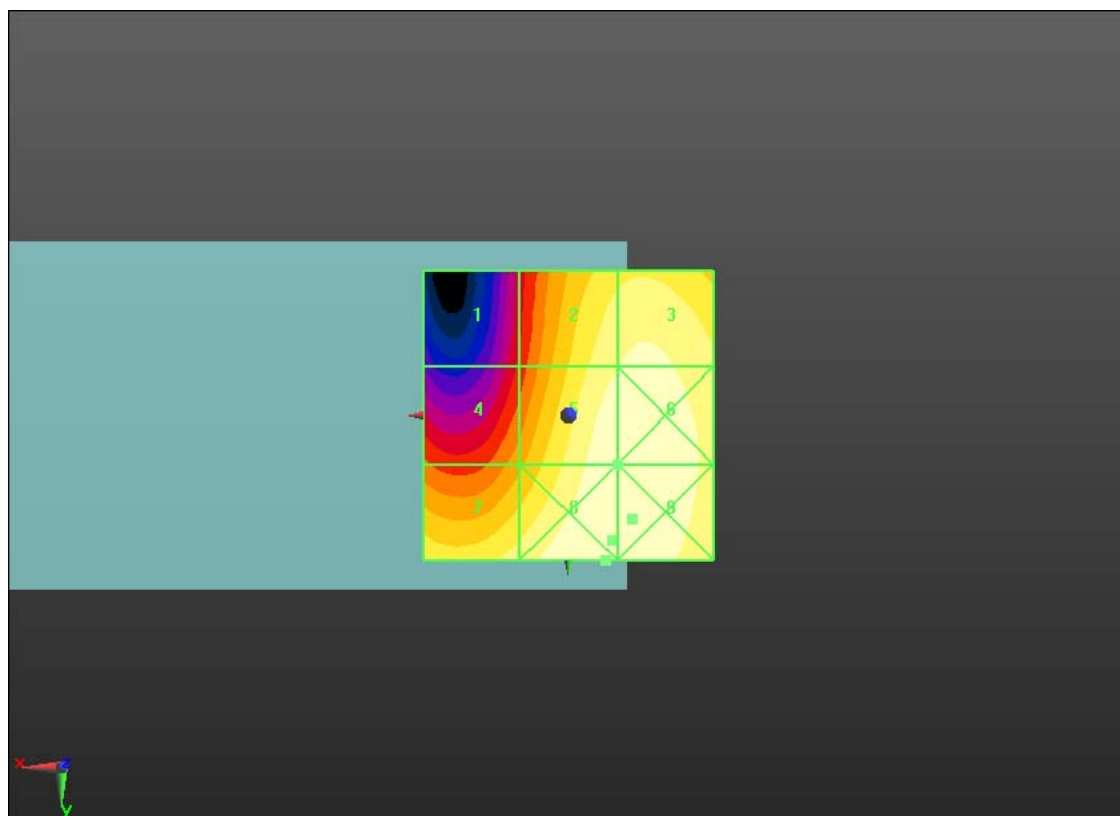
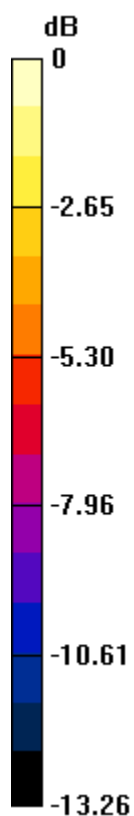
Reference Value = 23.136 V/m; Power Drift = -0.09 dB

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


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Peak E-field in V/m

Grid 1 12.994 M4	Grid 2 20.188 M4	Grid 3 21.482 M4
Grid 4 17.707 M4	Grid 5 26.432 M4	Grid 6 26.881 M4
Grid 7 25.994 M4	Grid 8 29.684 M4	Grid 9 29.550 M4



0 dB = 31.740V/m

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Date/Time: 4/6/2011 2:51:08 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_UMTS_band_IV_telecoil

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD IV; Frequency: 1712.4

MHz;Communication System PAR: 0 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device Telecoil cent/Hearing Aid

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


Maximum value of peak Total field = 32.464 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

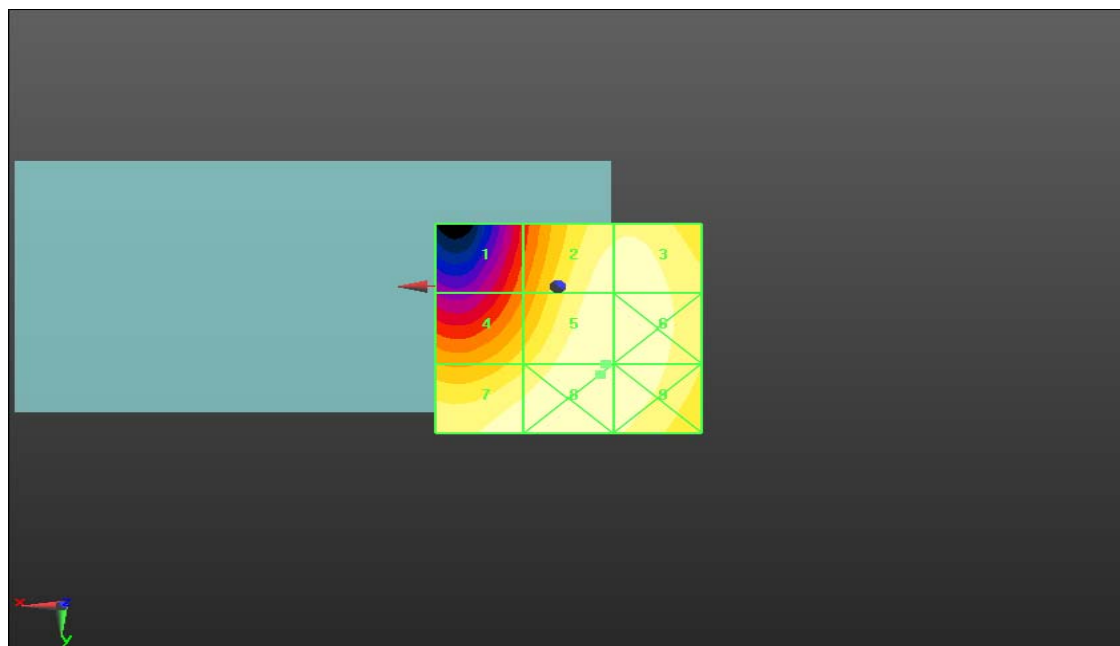
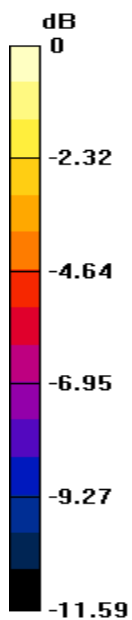
Reference Value = 31.810 V/m; Power Drift = -0.06 dB

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


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Peak E-field in V/m

Grid 1 20.772 M4	Grid 2 31.575 M4	Grid 3 31.740 M4
Grid 4 26.513 M4	Grid 5 32.464 M4	Grid 6 32.440 M4
Grid 7 31.348 M4	Grid 8 32.482 M4	Grid 9 32.417 M4



0 dB = 32.480V/m

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Date/Time: 4/6/2011 3:17:04 PM, Date/Time: 4/6/2011 3:25:01 PM, Date/Time: 4/6/2011 3:28:43 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_UMTS_band IV

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD IV; Frequency: 1712.4 MHz, Frequency: 1732.6 MHz, Frequency: 1752.6 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)


Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid

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

Maximum value of peak Total field = 0.098 A/m

Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

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Reference Value = 0.090 A/m; Power Drift = -0.02 dB

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

Peak H-field in A/m

Grid 1 0.082 M 4	Grid 2 0.079 M 4	Grid 3 0.063 M 4
Grid 4 0.101 M 4	Grid 5 0.098 M 4	Grid 6 0.084 M 4
Grid 7 0.126 M 4	Grid 8 0.116 M 4	Grid 9 0.096 M 4

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device

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

dx=5mm, dy=5mm


Maximum value of peak Total field = 0.091 A/m

Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.084 A/m; Power Drift = 0.0011 dB

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

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Peak H-field in A/m

Grid 1 0.077 M4	Grid 2 0.075 M4	Grid 3 0.060 M4
Grid 4 0.093 M4	Grid 5 0.091 M4	Grid 6 0.078 M4
Grid 7 0.114 M4	Grid 8 0.107 M4	Grid 9 0.088 M4

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.086 A/m


Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

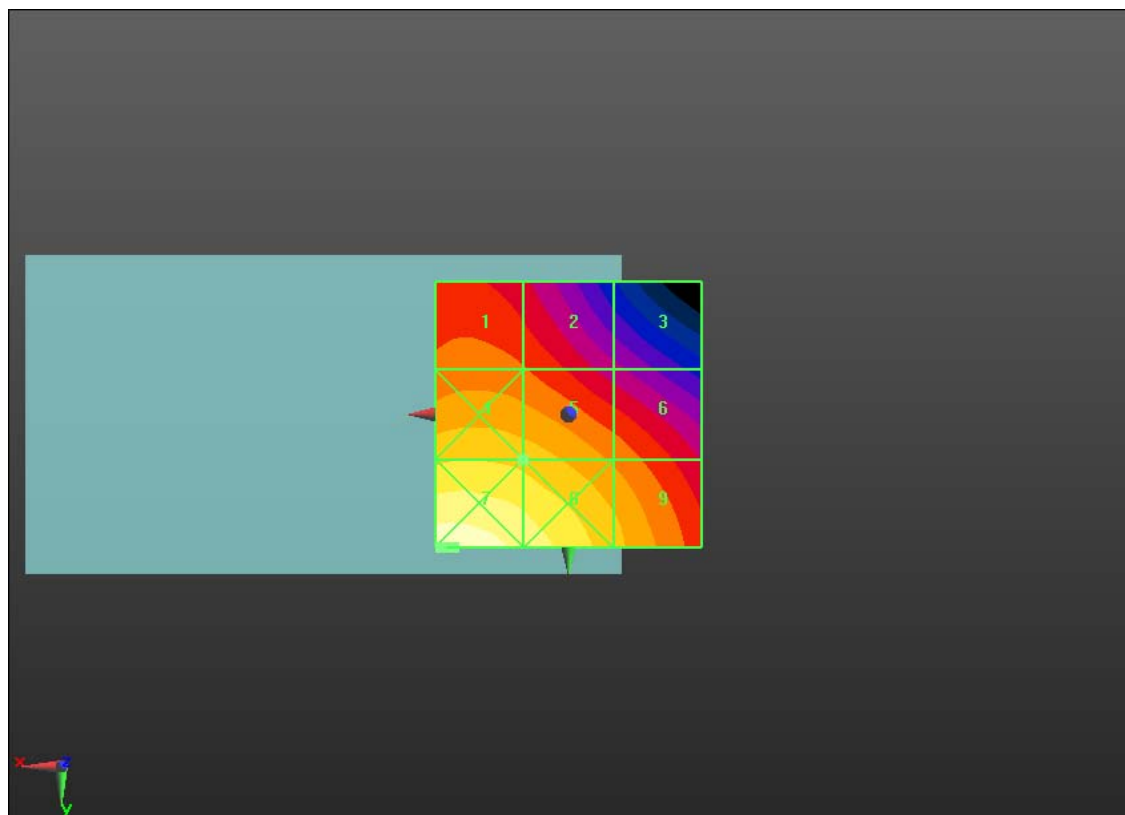
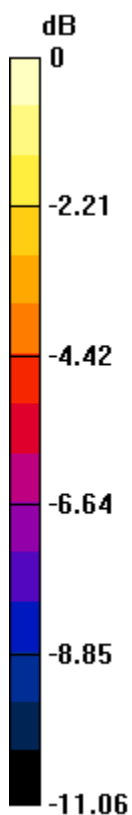
Reference Value = 0.080 A/m; Power Drift = -0.0048 dB

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


Peak H-field in A/m

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Grid 1 0.070 M4	Grid 2 0.070 M4	Grid 3 0.059 M4
Grid 4 0.088 M4	Grid 5 0.086 M4	Grid 6 0.072 M4
Grid 7 0.110 M4	Grid 8 0.103 M4	Grid 9 0.081 M4



0 dB = 0.130A/m

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Date/Time: 4/6/2011 3:39:30 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_UMTS_band IV_telecoil

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD IV; Communication System Band:

Exported from older format (data unavailable - please correct).; Frequency:

1712.4 MHz;Communication System PAR: 0 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 -


2007: 15 mm from Probe Center to the Device 2 2 2/Hearing Aid

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

Maximum value of peak Total field = 0.109 A/m

Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm


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Reference Value = 0.090 A/m; Power Drift = 0.06 dB

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

Peak H-field in A/m

Grid 1 0.092 M4	Grid 2 0.088 M4	Grid 3 0.075 M4
Grid 4 0.117 M4	Grid 5 0.109 M4	Grid 6 0.090 M4
Grid 7 0.130 M4	Grid 8 0.116 M4	Grid 9 0.093 M4

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