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	Annex A_Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCW41GW		1 (102)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	April 07-08, 2010	RTS-2341-1004-60	L6ARCW40GW

Annex A: Measurement data and plots

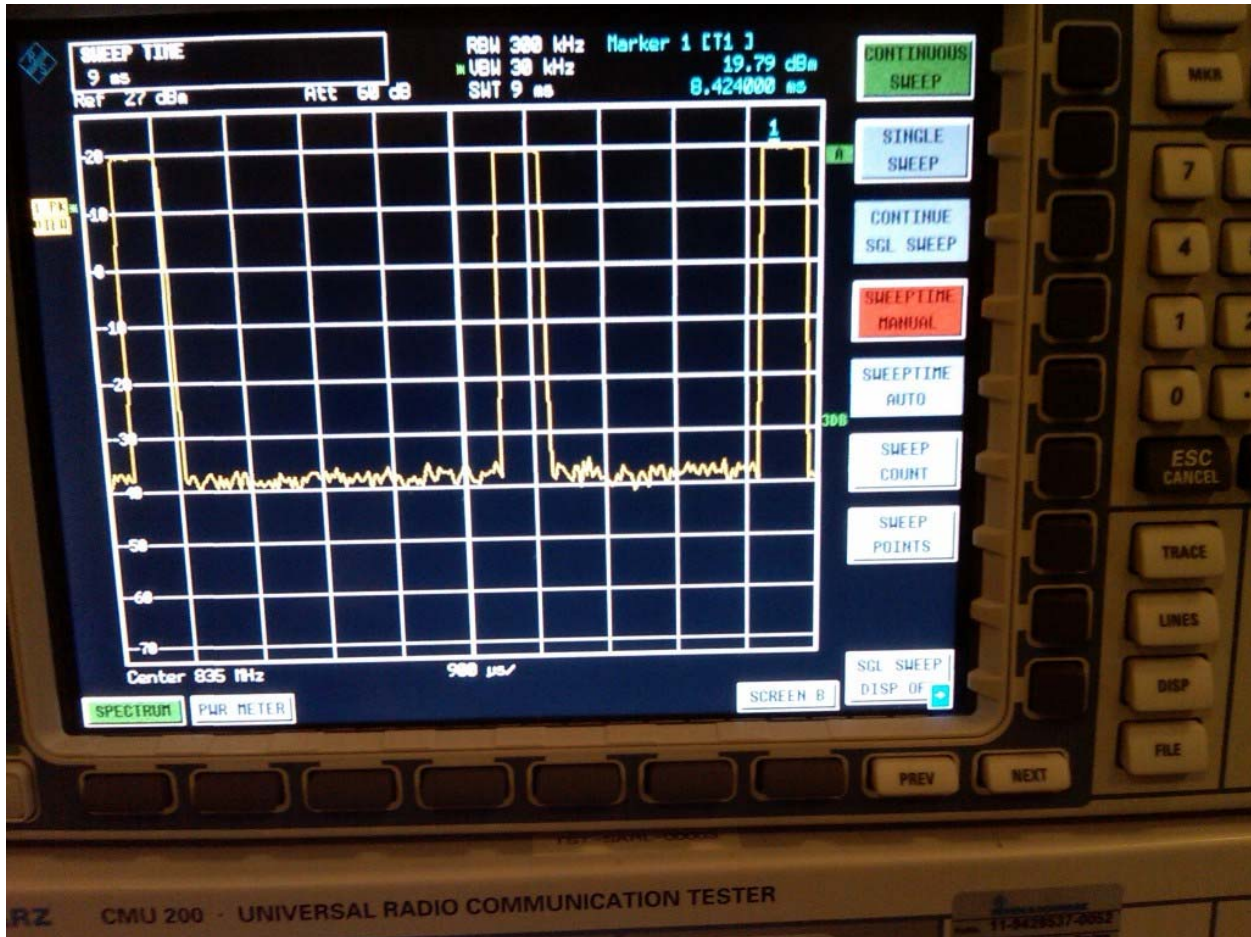
A.1 Spectrum analyser plots: GSM, CW and 80%AM ignals

Author Data
Daoud Attayi

Dates of Test
April 07-08, 2010

Report No
RTS-2341-1004-60

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L6ARCW40GW



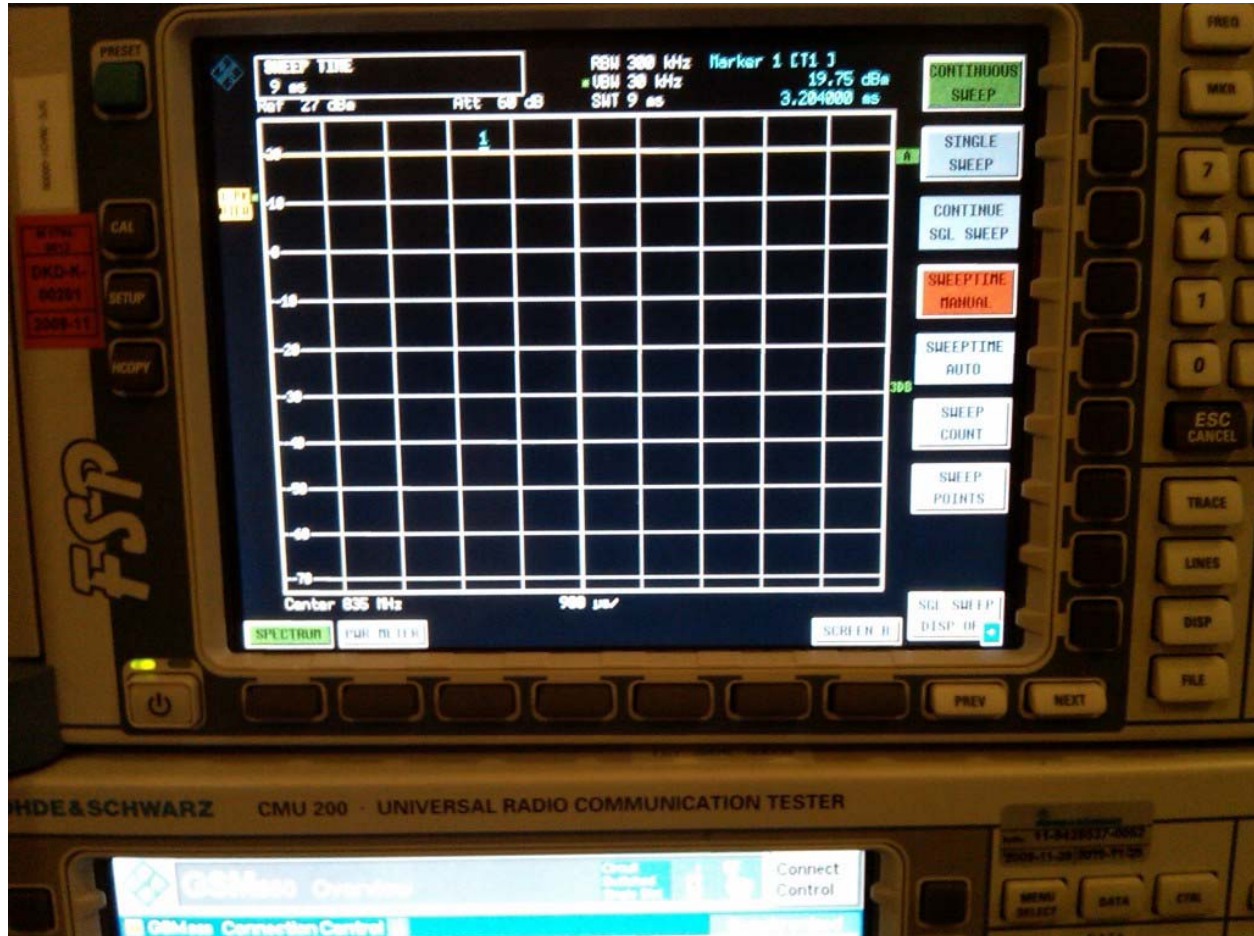
0 Hz Span GSM (835MHz)

Author Data
Daoud Attayi

Dates of Test
April 07-08, 2010

Report No
RTS-2341-1004-60

FCC ID
L6ARCW40GW



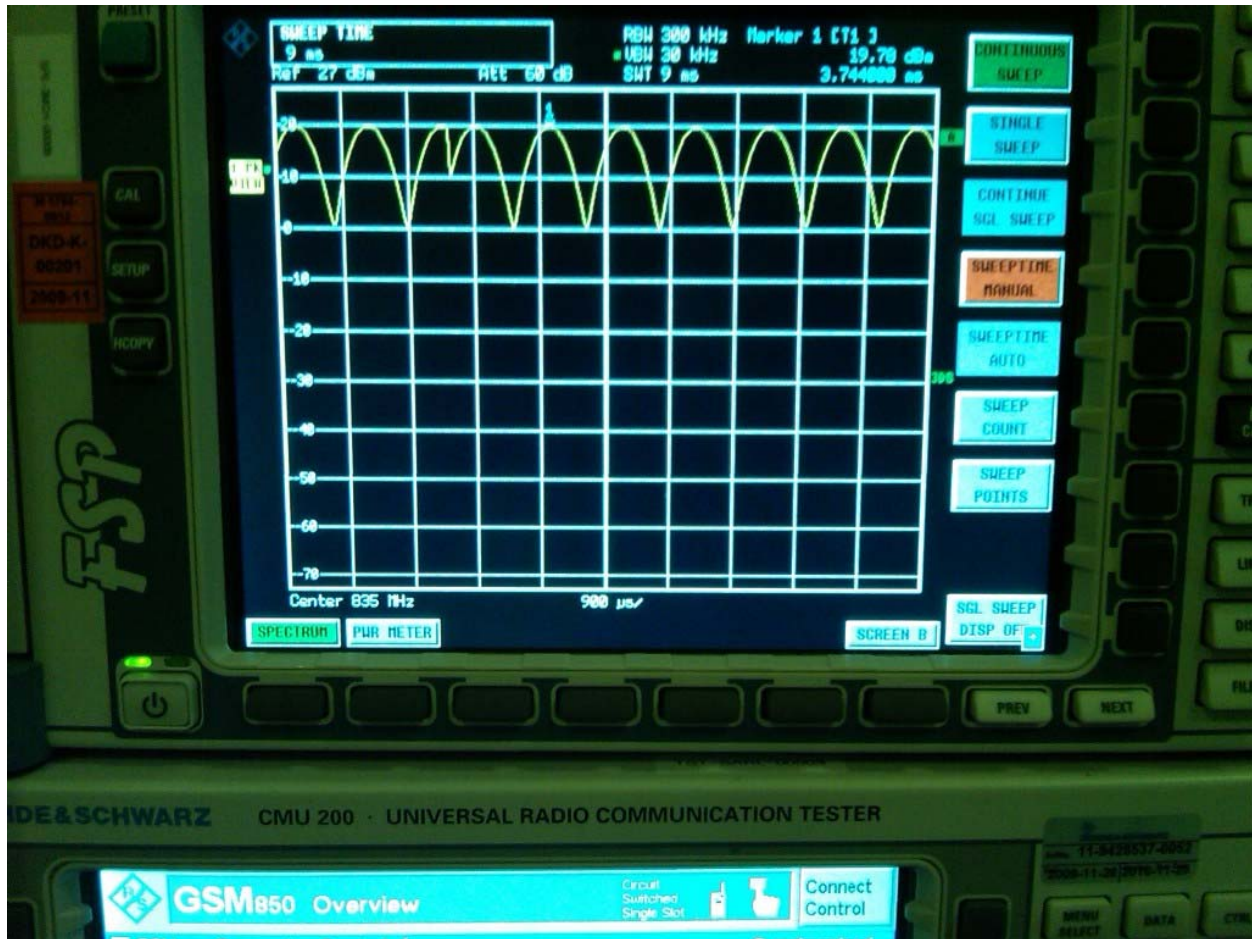
0 Hz Span CW Plot (835MHz)

Author Data
Daoud Attayi

Dates of Test
April 07-08, 2010

Report No
RTS-2341-1004-60

FCC ID
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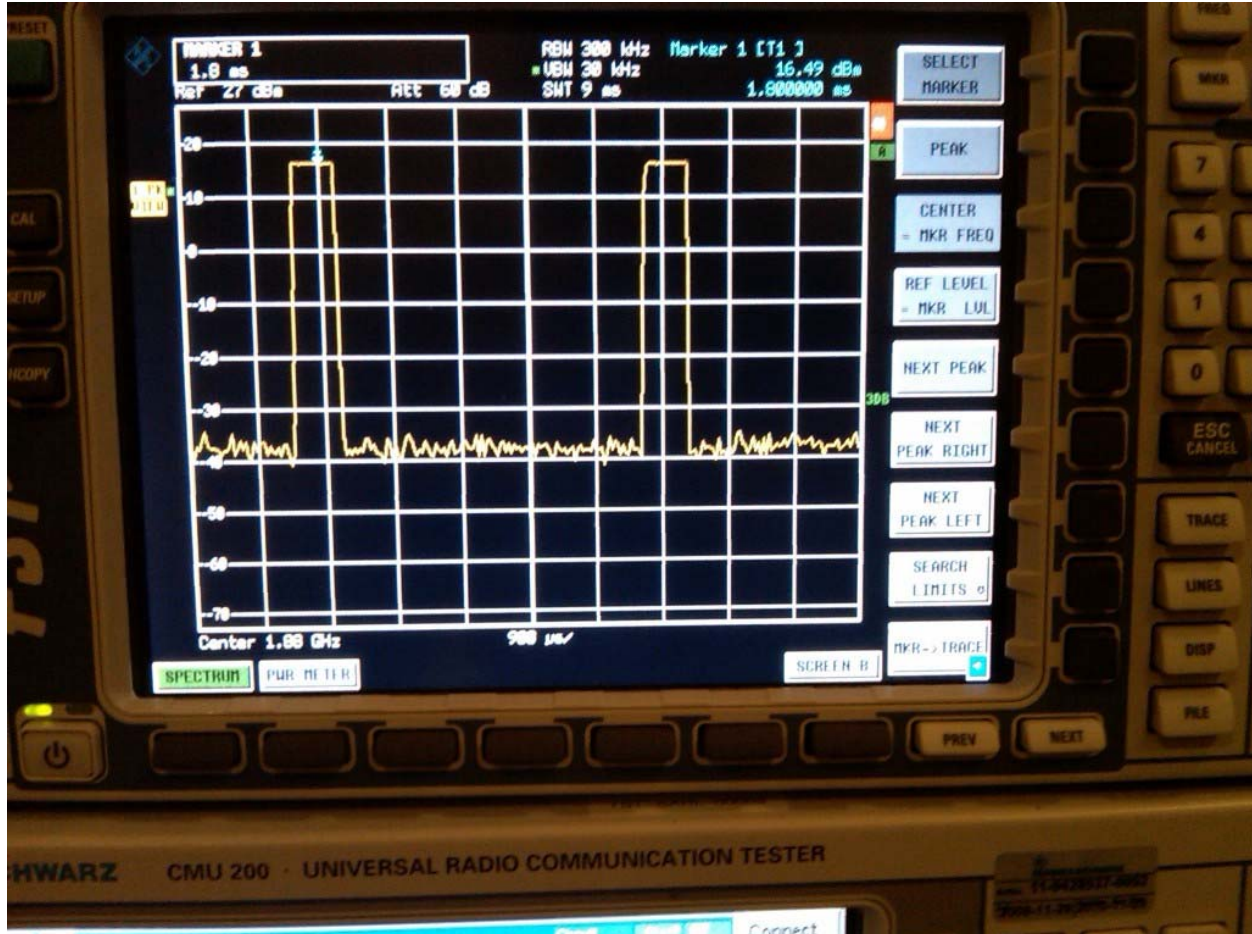
0 Hz Span 80% AM Plot (835MHz)

Author Data
Daoud Attayi


Dates of Test
April 07-08, 2010

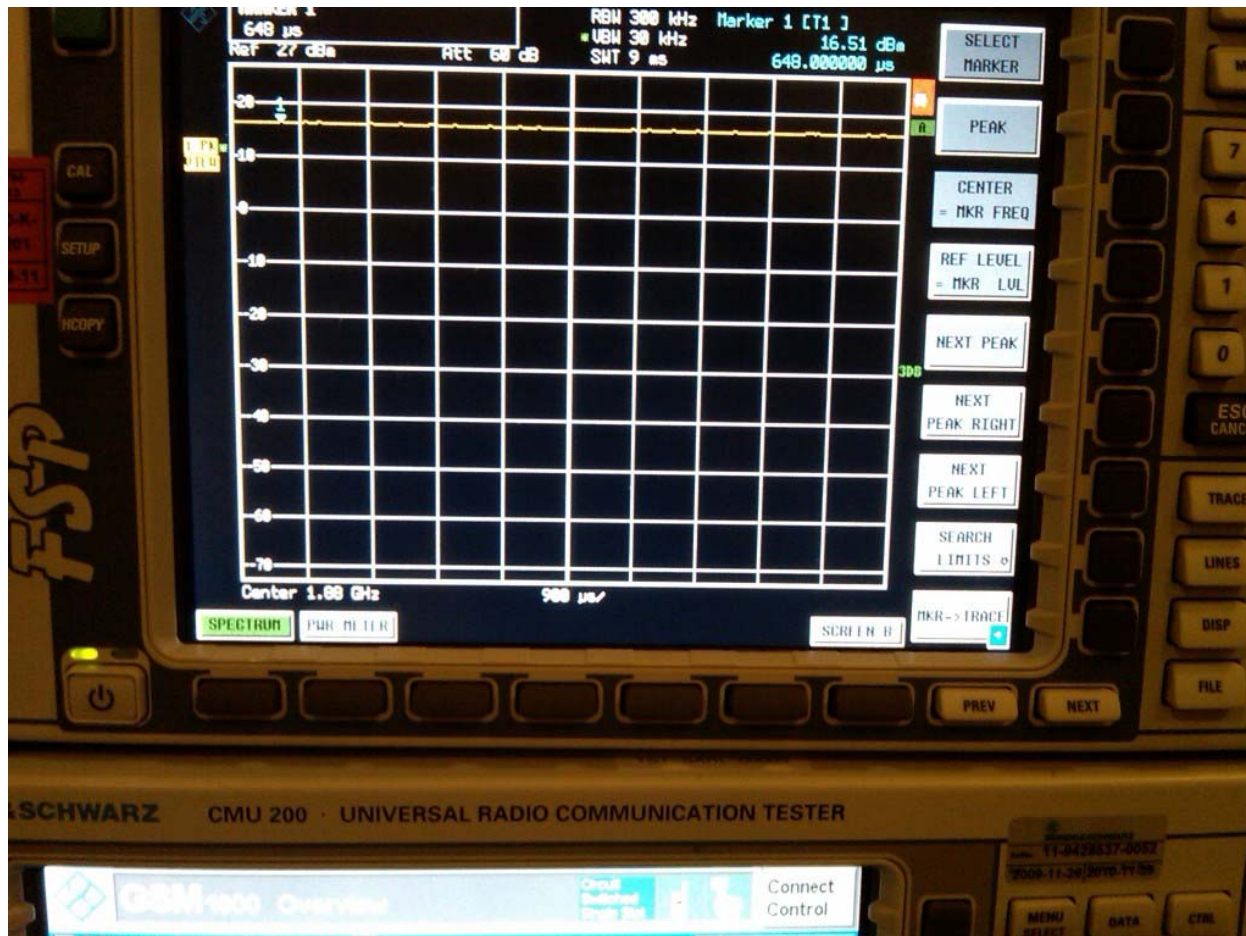
Report No
RTS-2341-1004-60

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0 Hz Span GSM (1880 MHz)

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Author Data Daoud Attayi	Dates of Test April 07-08, 2010	Report No RTS-2341-1004-60	FCC ID L6ARCW40GW



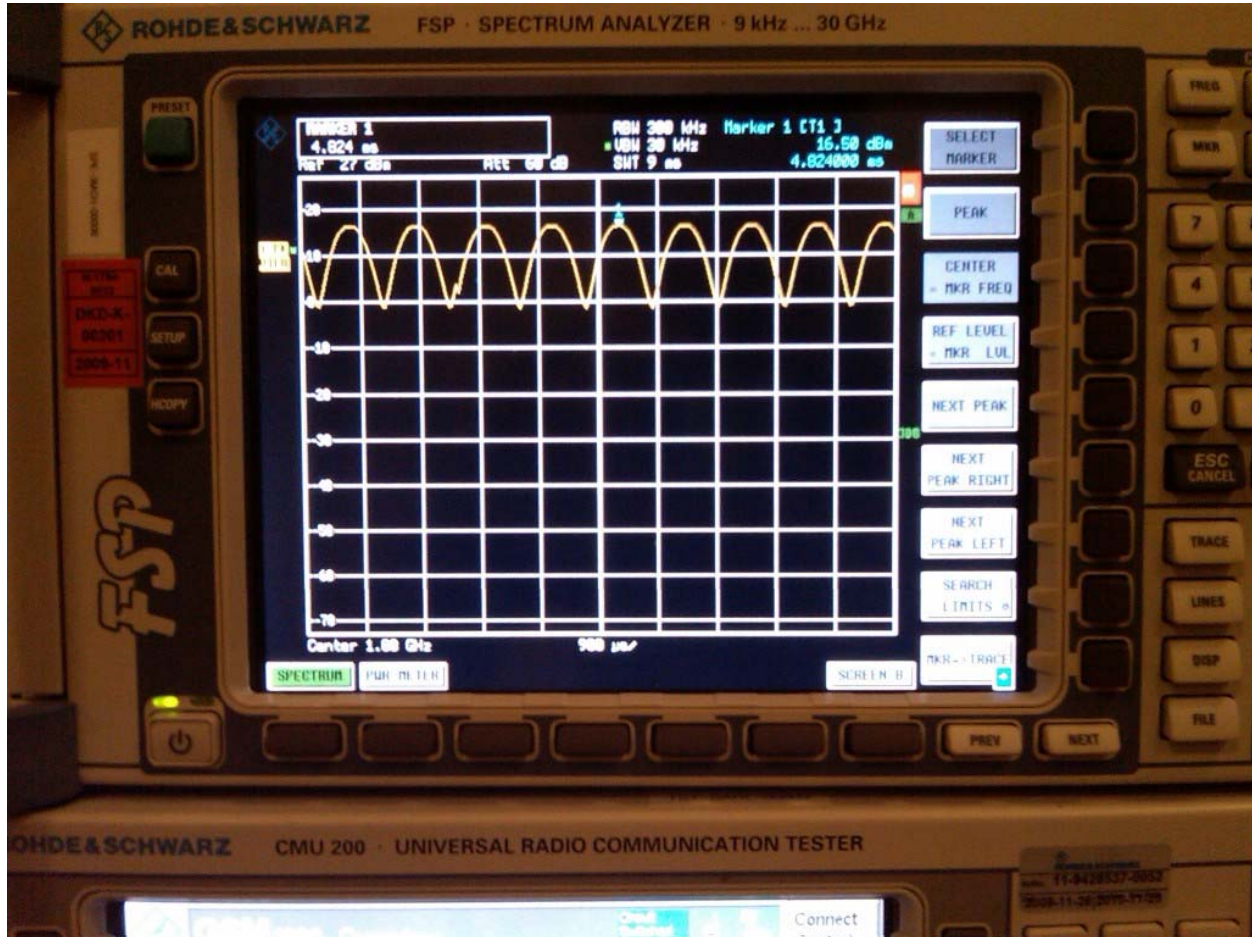
0 Hz Span CW Plot (1880 MHz)

Author Data
Daoud Attayi


Dates of Test
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0 Hz Span 80% AM Plot (1880 MHz)

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A.2 Dipole validation and probe modulation factor plots

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Daoud Attayi	April 07-08, 2010	RTS-2341-1004-60	L6ARCW40GW

Date/Time: 4/7/2010 12:00:12 PM

File Name: [HAC_E_Dipole_CW835_20.00dBm.da4](#)

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

Program Name: HAC RF E Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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


dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 103.5 V/m; Power Drift = 0.021 dB

Maximum value of Total (measured) = 162.9 V/m

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E Scan - measurement distance from the probe sensor center to CD835
Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid:
dx=5mm, dy=5mm
Maximum value of peak Total field = 163.6 V/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, -6.30 mm
Reference Value = 103.5 V/m; Power Drift = 0.021 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

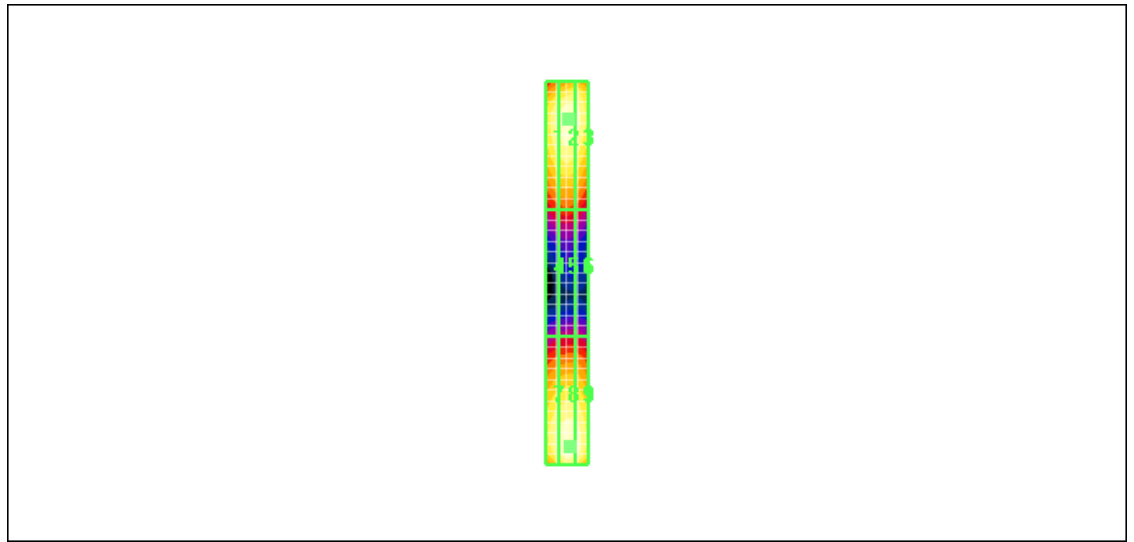
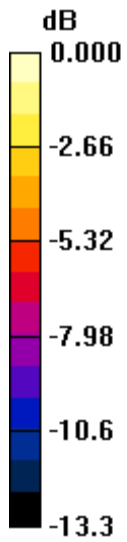
Grid 1 153.8 M4	Grid 2 160.3 M4	Grid 3 158.2 M4
Grid 4 85.8 M4	Grid 5 87.8 M4	Grid 6 85.2 M4
Grid 7 156.0 M4	Grid 8 163.6 M4	Grid 9 161.6 M4

Author Data
Daoud Attayi


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0 dB = 163.6V/m

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Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	April 07-08, 2010	RTS-2341-1004-60	L6ARCW40GW

Date/Time: 4/8/2010 11:06:35 AM

File Name: [HAC_E_Dipole_CW835_PMF_GSM.da4](#)

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

Program Name: HAC RF E Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 104.2 V/m; Power Drift = -0.140 dB

Maximum value of Total (measured) = 163.7 V/m

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

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



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$dx=5mm, dy=5mm$

Maximum value of peak Total field = 165.5 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 104.2 V/m; Power Drift = -0.140 dB

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

Peak E-field in V/m

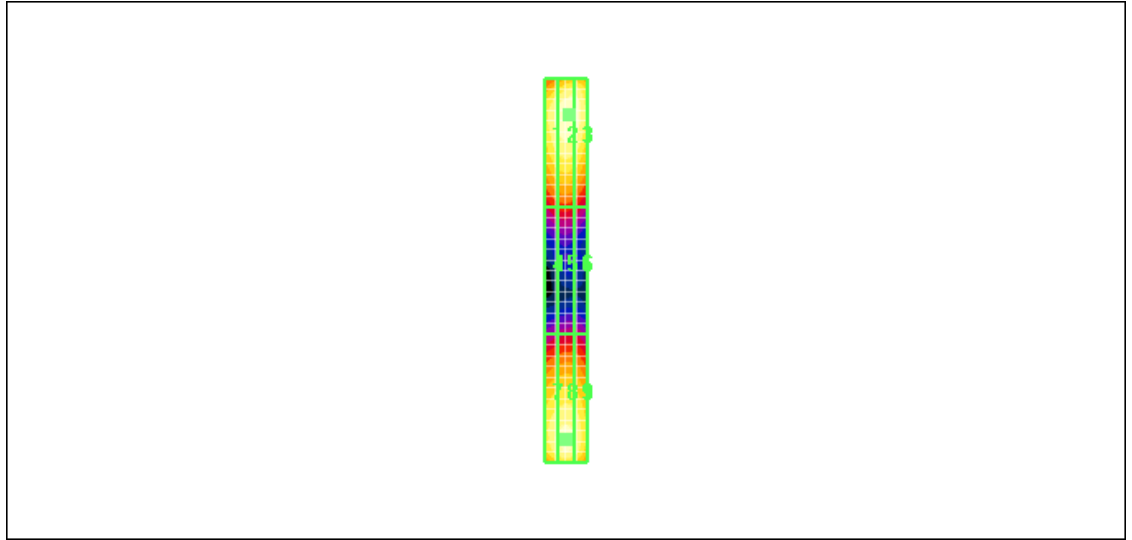
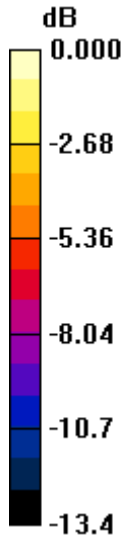
Grid 1 156.9 M4	Grid 2 165.5 M4	Grid 3 164.1 M4
Grid 4 85.2 M4	Grid 5 87.0 M4	Grid 6 84.0 M4
Grid 7 154.0 M4	Grid 8 158.5 M4	Grid 9 153.7 M4

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0 dB = 165.5V/m

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Author Data Daoud Attayi	Dates of Test April 07-08, 2010	Report No RTS-2341-1004-60	FCC ID L6ARCW40GW

Date/Time: 4/8/2010 10:55:31 AM

File Name: [HAC_E_Dipole_GSM835.da4](#)

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

Program Name: HAC RF E Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 35.6 V/m; Power Drift = -0.007 dB

Maximum value of Total (measured) = 56.5 V/m

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

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

dx=5mm, dy=5mm

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Maximum value of peak Total field = 57.1 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 35.6 V/m; Power Drift = -0.007 dB

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

Peak E-field in V/m

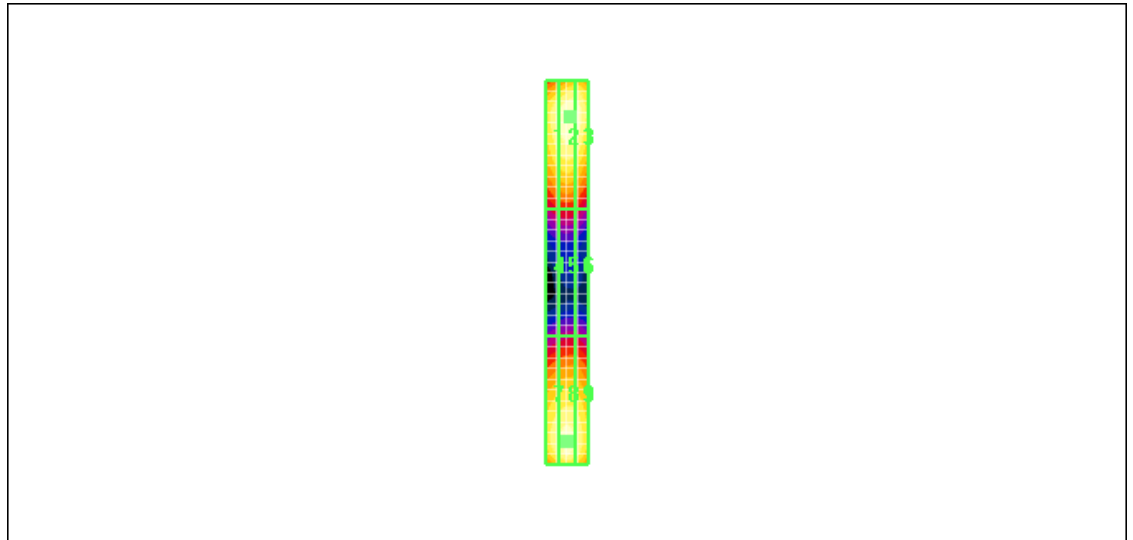
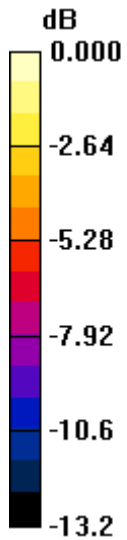
Grid 1 53.7 M4	Grid 2 57.1 M4	Grid 3 56.7 M4
Grid 4 28.6 M4	Grid 5 29.2 M4	Grid 6 28.6 M4
Grid 7 53.0 M4	Grid 8 55.1 M4	Grid 9 53.2 M4

Author Data
Daoud Attayi


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0 dB = 57.1V/m

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Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	April 07-08, 2010	RTS-2341-1004-60	L6ARCW40GW

Date/Time: 4/8/2010 11:14:58 AM

File Name: [HAC_E_Dipole_AM835_PMF_GSM.da4](#)

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

Program Name: HAC RF E Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 65.5 V/m; Power Drift = -0.108 dB

Maximum value of Total (measured) = 102.6 V/m

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

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 103.4 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 65.5 V/m; Power Drift = -0.108 dB

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

Peak E-field in V/m

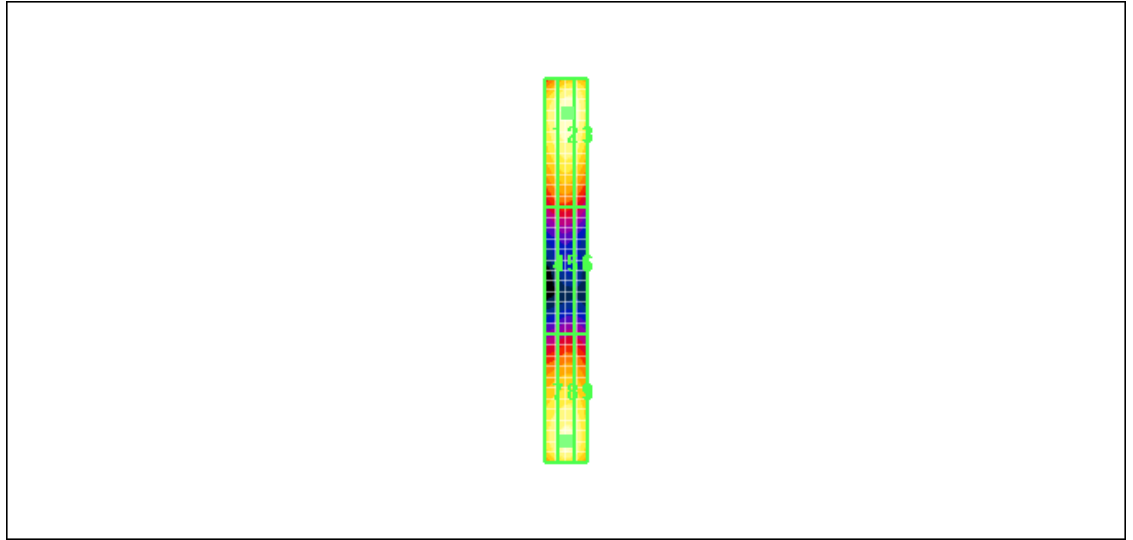
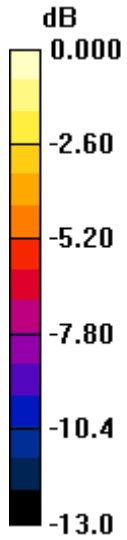
Grid 1 98.5 M4	Grid 2 103.4 M4	Grid 3 102.3 M4
Grid 4 54.2 M4	Grid 5 55.1 M4	Grid 6 52.5 M4
Grid 7 95.5 M4	Grid 8 98.9 M4	Grid 9 96.4 M4

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0 dB = 103.4V/m

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Date/Time: 4/7/2010 2:29:31 PM

File Name: [HAC_E_Dipole_CW1880_20.00dBm.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Program Name: HAC RF E Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 145.3 V/m; Power Drift = -0.198 dB

Maximum value of Total (measured) = 125.7 V/m

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

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

dx=5mm, dy=5mm

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Author Data Daoud Attayi	Dates of Test April 07-08, 2010	Report No RTS-2341-1004-60	FCC ID L6ARCW40GW

Maximum value of peak Total field = 127.6 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 145.3 V/m; Power Drift = -0.198 dB

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

Peak E-field in V/m

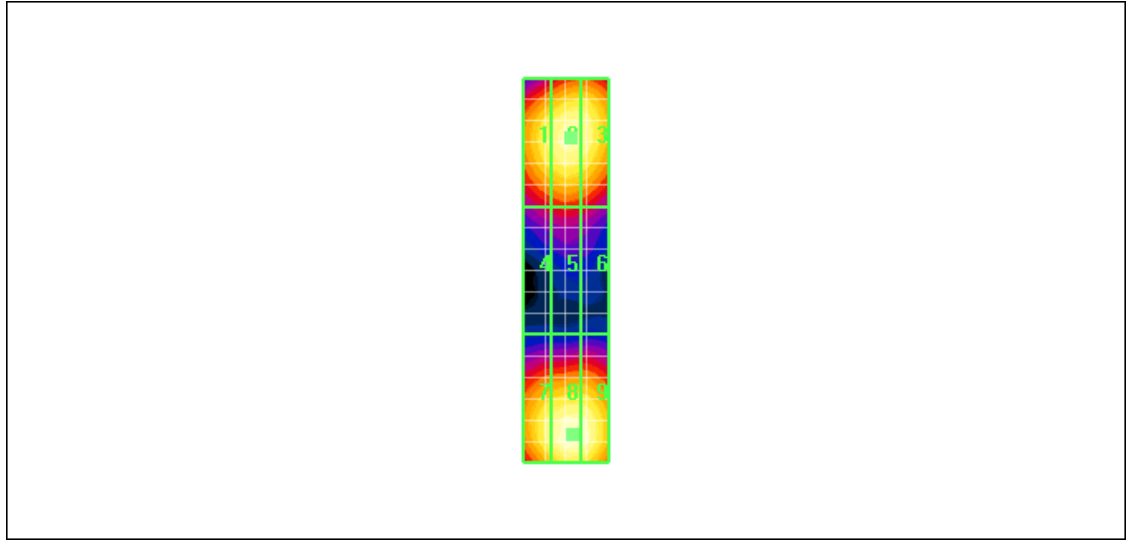
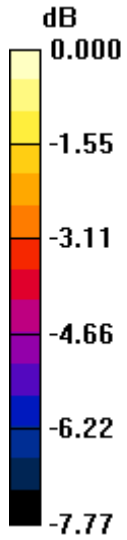
Grid 1 116.8 M2	Grid 2 123.1 M2	Grid 3 121.2 M2
Grid 4 83.5 M3	Grid 5 86.8 M3	Grid 6 84.5 M3
Grid 7 120.2 M2	Grid 8 127.6 M2	Grid 9 126.5 M2

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Daoud Attayi


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0 dB = 127.6V/m

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Daoud Attayi	April 07-08, 2010	RTS-2341-1004-60	L6ARCW40GW

Date/Time: 4/8/2010 10:25:59 AM

File Name: [HAC_E_Dipole_GSM1880.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Program Name: HAC RF E Dipole

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

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

Phantom section: TCoil Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 37.6 V/m; Power Drift = 0.003 dB

Maximum value of Total (measured) = 33.7 V/m

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

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

dx=5mm, dy=5mm



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Maximum value of peak Total field = 33.8 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 37.6 V/m; Power Drift = 0.003 dB

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

Peak E-field in V/m

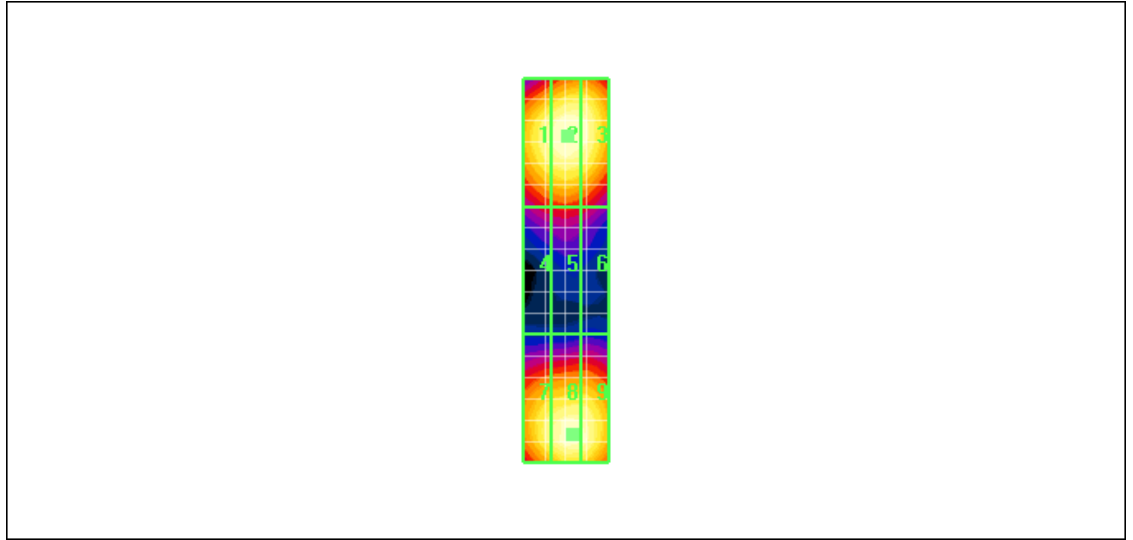
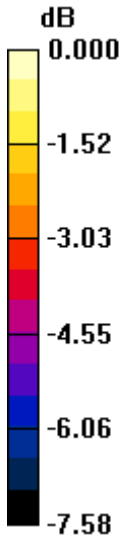
Grid 1 32.6 M4	Grid 2 33.8 M4	Grid 3 33.2 M4
Grid 4 22.8 M4	Grid 5 23.4 M4	Grid 6 22.7 M4
Grid 7 31.9 M4	Grid 8 33.5 M4	Grid 9 33.2 M4

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Daoud Attayi


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0 dB = 33.8V/m

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Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	April 07-08, 2010	RTS-2341-1004-60	L6ARCW40GW

Date/Time: 4/8/2010 10:31:21 AM

File Name: [HAC_E_Dipole_CW1880_PMF_GSM.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Program Name: HAC RF E Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 97.4 V/m; Power Drift = -0.027 dB

Maximum value of Total (measured) = 88.8 V/m

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

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

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dx=5mm, dy=5mm

Maximum value of peak Total field = 89.1 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 97.4 V/m; Power Drift = -0.027 dB

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

Peak E-field in V/m

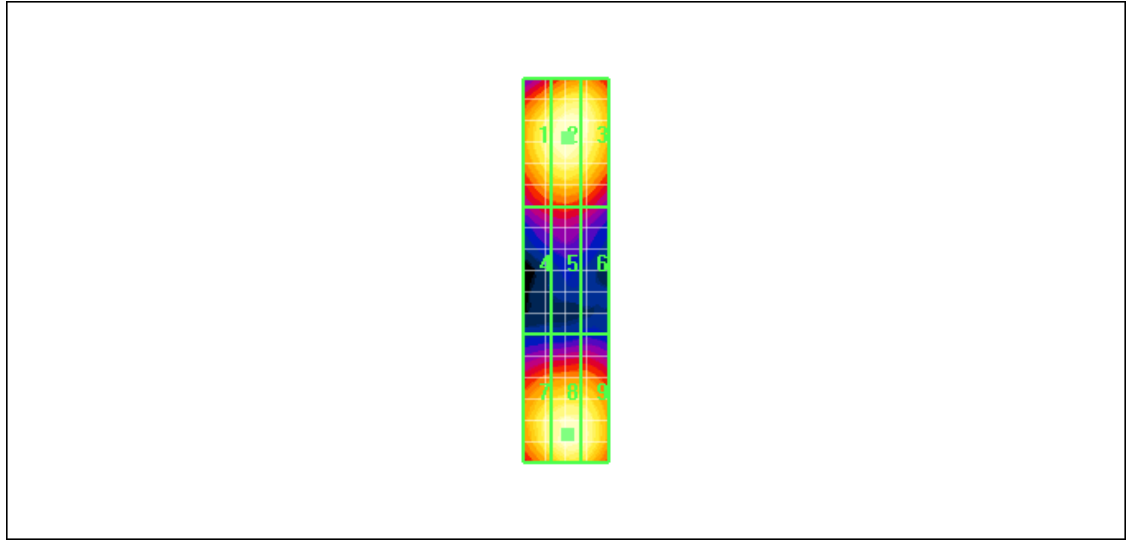
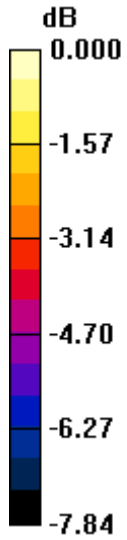
Grid 1 85.3 M3	Grid 2 89.1 M3	Grid 3 87.5 M3
Grid 4 59.7 M4	Grid 5 61.1 M4	Grid 6 59.0 M4
Grid 7 84.4 M3	Grid 8 88.8 M3	Grid 9 87.3 M3

Author Data
Daoud Attayi


Dates of Test
April 07-08, 2010

Report No
RTS-2341-1004-60

FCC ID
L6ARCW40GW



0 dB = 89.1V/m

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Author Data Daoud Attayi	Dates of Test April 07-08, 2010	Report No RTS-2341-1004-60	FCC ID L6ARCW40GW

Date/Time: 4/8/2010 10:39:43 AM

File Name: [HAC_E_Dipole_AM_1880_PMF_GSM.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Program Name: HAC RF E Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 60.5 V/m; Power Drift = -0.005 dB

Maximum value of Total (measured) = 54.7 V/m

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

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

dx=5mm, dy=5mm

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Maximum value of peak Total field = 54.9 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 60.5 V/m; Power Drift = -0.005 dB

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

Peak E-field in V/m

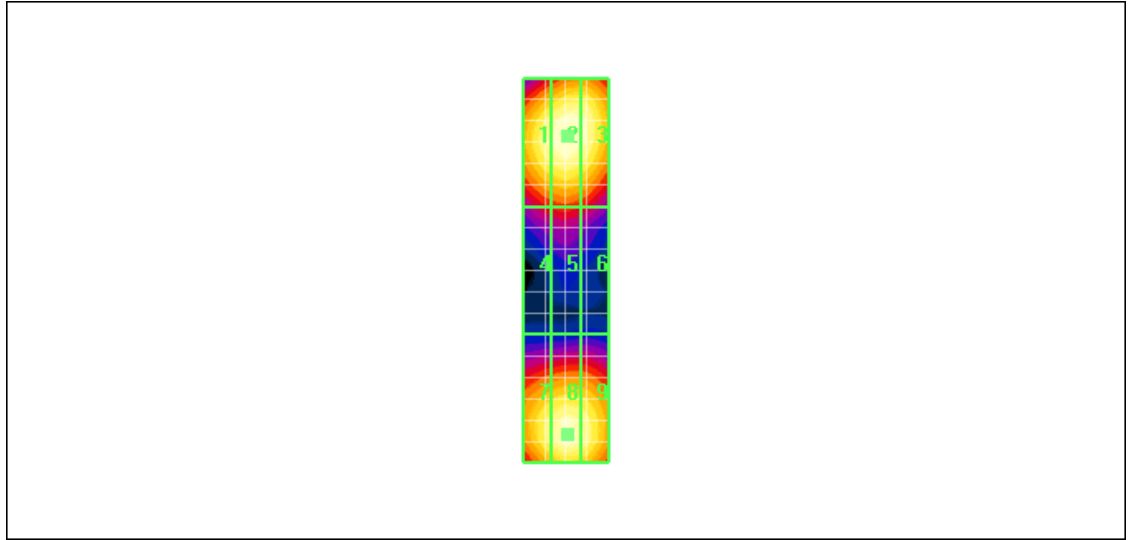
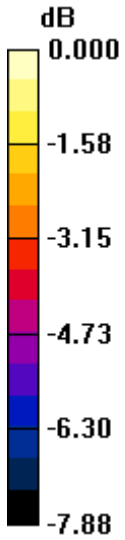
Grid 1	Grid 2	Grid 3
52.9 M4	54.9 M4	53.7 M4
Grid 4	Grid 5	Grid 6
36.6 M4	37.7 M4	36.3 M4
Grid 7	Grid 8	Grid 9
51.3 M4	54.2 M4	52.6 M4

Author Data
Daoud Attayi


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0 dB = 54.9V/m

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	Annex A Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCW41GW		33 (102)
Author Data Daoud Attayi	Dates of Test April 07-08, 2010	Report No RTS-2341-1004-60	FCC ID L6ARCW40GW

Date/Time: 4/7/2010 4:14:31 PM

File Name: [HAC_H_Dipole_CW835_20.00dBm.da4](#)

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

Program Name: HAC RF H3DV6 Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.496 A/m; Power Drift = -0.123 dB

Maximum value of Total (measured) = 0.469 A/m

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

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

dx=5mm, dy=5mm



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Maximum value of peak Total field = 0.471 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.496 A/m; Power Drift = -0.123 dB

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

Peak H-field in A/m

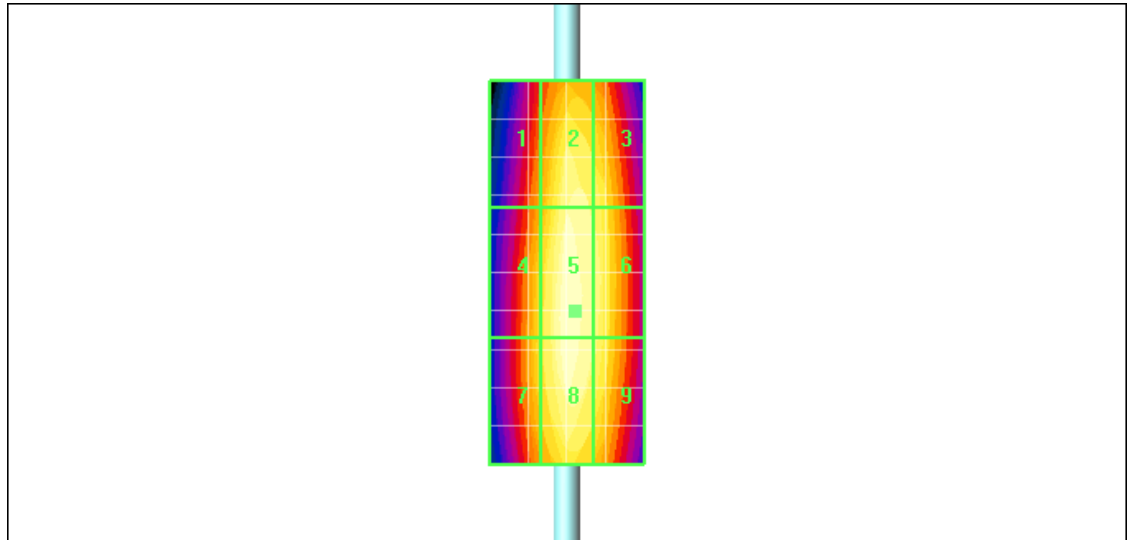
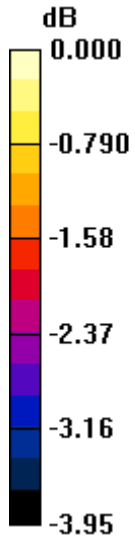
Grid 1 0.418 M4	Grid 2 0.461 M4	Grid 3 0.453 M4
Grid 4 0.437 M4	Grid 5 0.471 M4	Grid 6 0.459 M4
Grid 7 0.438 M4	Grid 8 0.469 M4	Grid 9 0.457 M4

Author Data
Daoud Attayi


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0 dB = 0.471A/m

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Author Data Daoud Attayi	Dates of Test April 07-08, 2010	Report No RTS-2341-1004-60	FCC ID L6ARCW40GW

Date/Time: 4/8/2010 9:32:08 AM

File Name: [HAC_H_Dipole_GSM835.da4](#)

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

Program Name: HAC RF H3DV6 Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 0.180 A/m; Power Drift = 0.132 dB

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

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

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

dx=5mm, dy=5mm

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Maximum value of peak Total field = 0.172 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.180 A/m; Power Drift = 0.132 dB

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

Peak H-field in A/m

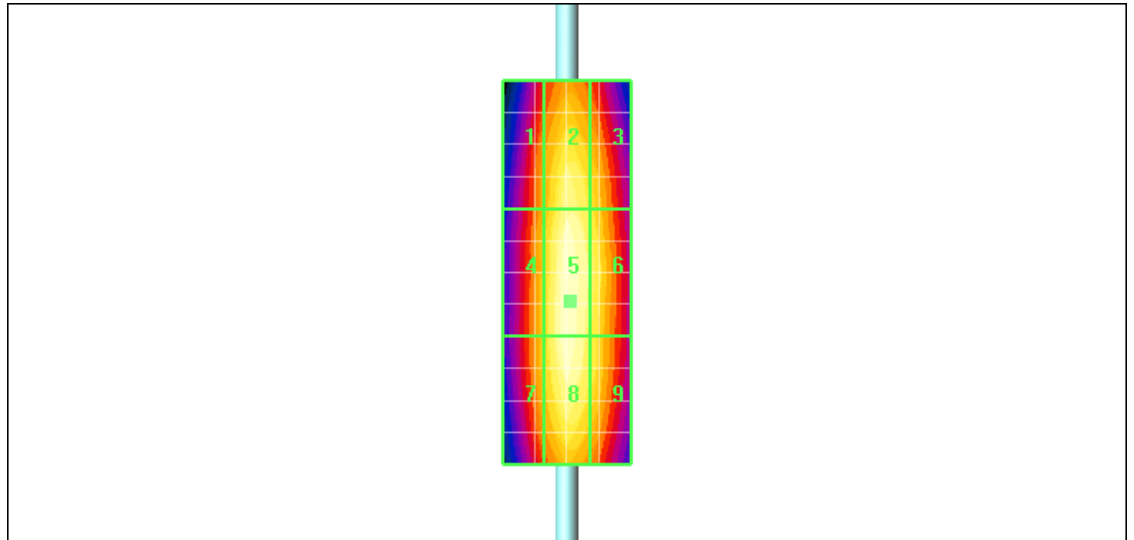
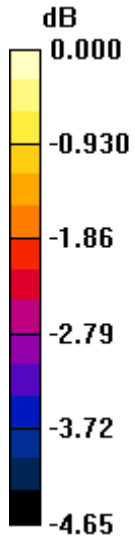
Grid 1 0.151 M4	Grid 2 0.166 M4	Grid 3 0.159 M4
Grid 4 0.156 M4	Grid 5 0.172 M4	Grid 6 0.165 M4
Grid 7 0.156 M4	Grid 8 0.172 M4	Grid 9 0.162 M4

Author Data
Daoud Attayi


Dates of Test
April 07-08, 2010

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0 dB = 0.172A/m

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Author Data Daoud Attayi	Dates of Test April 07-08, 2010	Report No RTS-2341-1004-60	FCC ID L6ARCW40GW

Date/Time: 4/8/2010 9:39:07 AM

File Name: [HAC_H_Dipole_CW835_PMF_GSM.da4](#)

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

Program Name: HAC RF H3DV6 Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 0.506 A/m; Power Drift = -0.023 dB

Maximum value of Total (measured) = 0.477 A/m

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

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

dx=5mm, dy=5mm

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Author Data Daoud Attayi	Dates of Test April 07-08, 2010	Report No RTS-2341-1004-60	FCC ID L6ARCW40GW

Maximum value of peak Total field = 0.479 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.506 A/m; Power Drift = -0.023 dB

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

Peak H-field in A/m

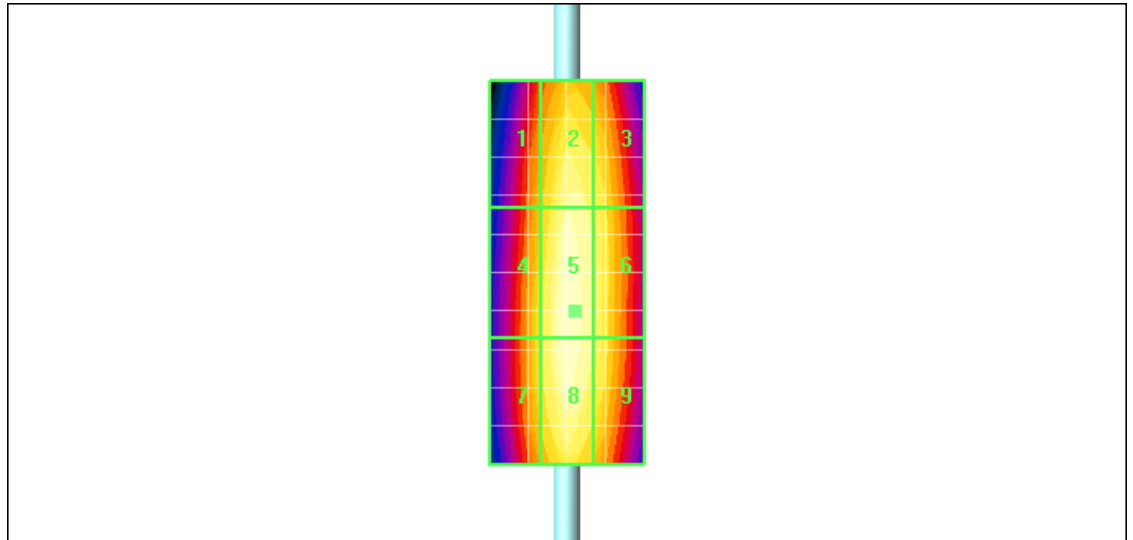
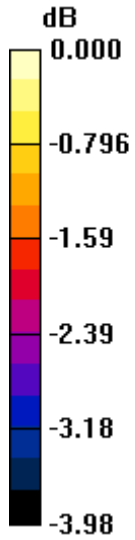
Grid 1 0.432 M4	Grid 2 0.468 M4	Grid 3 0.457 M4
Grid 4 0.446 M4	Grid 5 0.479 M4	Grid 6 0.464 M4
Grid 7 0.447 M4	Grid 8 0.479 M4	Grid 9 0.463 M4

Author Data
Daoud Attayi


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0 dB = 0.479A/m

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Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	April 07-08, 2010	RTS-2341-1004-60	L6ARCW40GW

Date/Time: 4/8/2010 9:43:56 AM

File Name: [HAC_H_Dipole_AM835_PMF_GSM.da4](#)

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

Program Name: HAC RF H3DV6 Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 0.325 A/m; Power Drift = -0.013 dB

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

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

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

dx=5mm, dy=5mm

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Author Data Daoud Attayi	Dates of Test April 07-08, 2010	Report No RTS-2341-1004-60	FCC ID L6ARCW40GW

Maximum value of peak Total field = 0.307 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 = -0.013 dB

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

Peak H-field in A/m

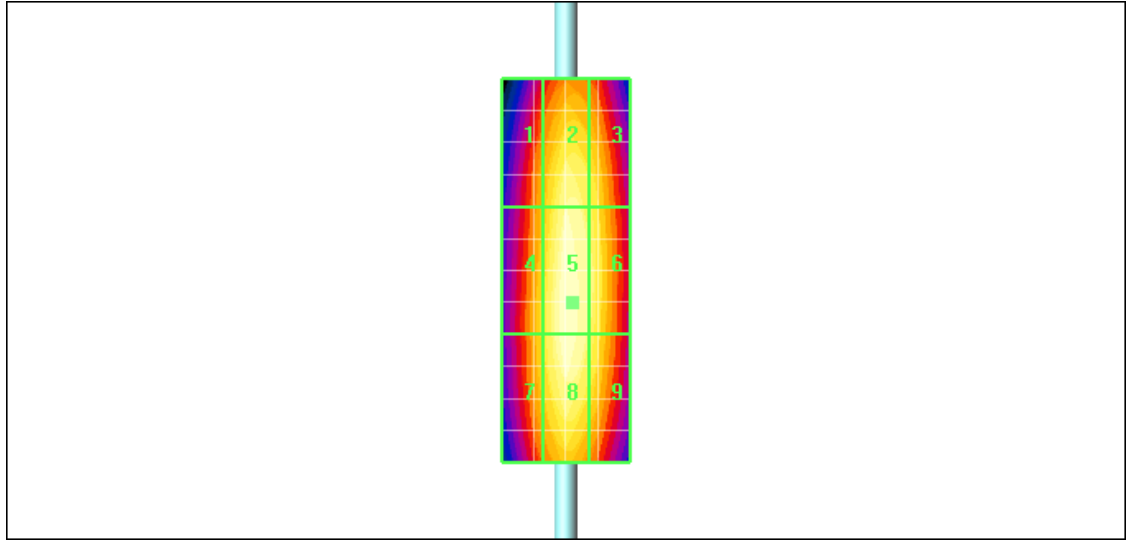
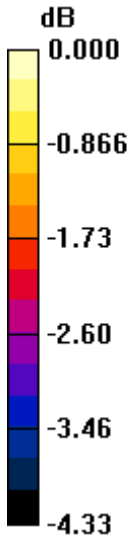
Grid 1 0.274 M4	Grid 2 0.299 M4	Grid 3 0.291 M4
Grid 4 0.283 M4	Grid 5 0.307 M4	Grid 6 0.298 M4
Grid 7 0.283 M4	Grid 8 0.306 M4	Grid 9 0.295 M4

Author Data
Daoud Attayi


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0 dB = 0.307A/m

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Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	April 07-08, 2010	RTS-2341-1004-60	L6ARCW40GW

Date/Time: 4/7/2010 2:42:18 PM

File Name: [HAC_H_Dipole_CW1880_20.00dBm.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Program Name: HAC RF H3DV6 Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.476 A/m; Power Drift = -0.041 dB

Maximum value of Total (measured) = 0.448 A/m

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

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

dx=5mm, dy=5mm



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Maximum value of peak Total field = 0.449 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.476 A/m; Power Drift = -0.041 dB

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

Peak H-field in A/m

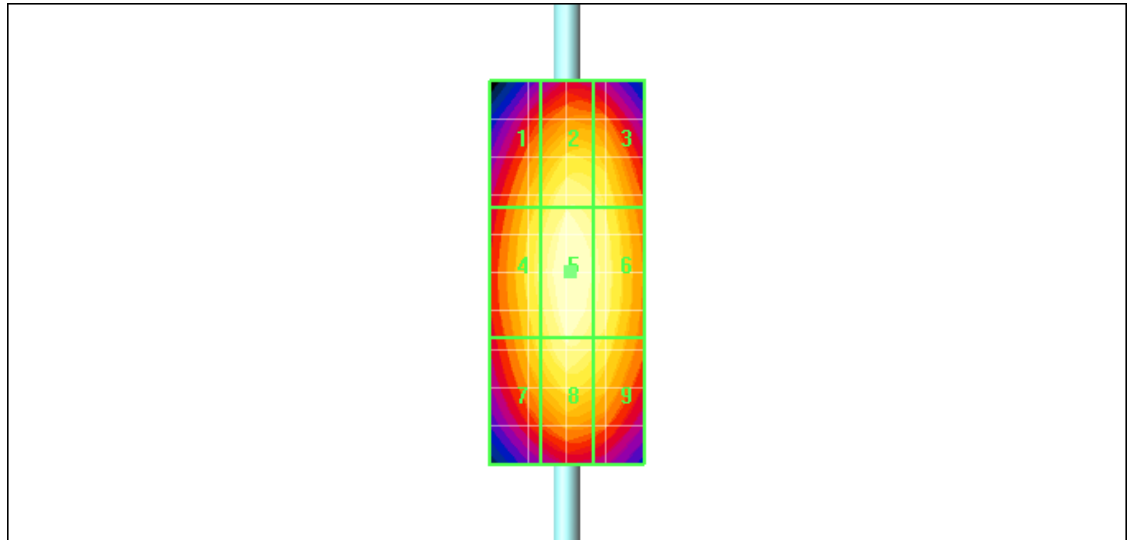
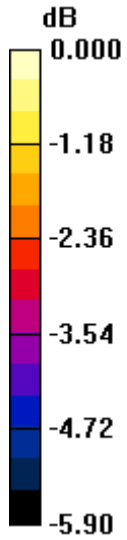
Grid 1 0.402 M2	Grid 2 0.430 M2	Grid 3 0.422 M2
Grid 4 0.421 M2	0.449 M2	Grid 6 0.435 M2
Grid 7 0.405 M2	Grid 8 0.433 M2	Grid 9 0.420 M2

Author Data
Daoud Attayi


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0 dB = 0.449A/m

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Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	April 07-08, 2010	RTS-2341-1004-60	L6ARCW40GW

Date/Time: 4/8/2010 9:50:31 AM

File Name: [HAC_H_Dipole_GSM1880.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Program Name: HAC RF H3DV6 Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.152 A/m; Power Drift = -0.086 dB


Maximum value of Total (measured) = 0.141 A/m

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

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.141 A/m

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Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.152 A/m; Power Drift = -0.086 dB

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

Peak H-field in A/m

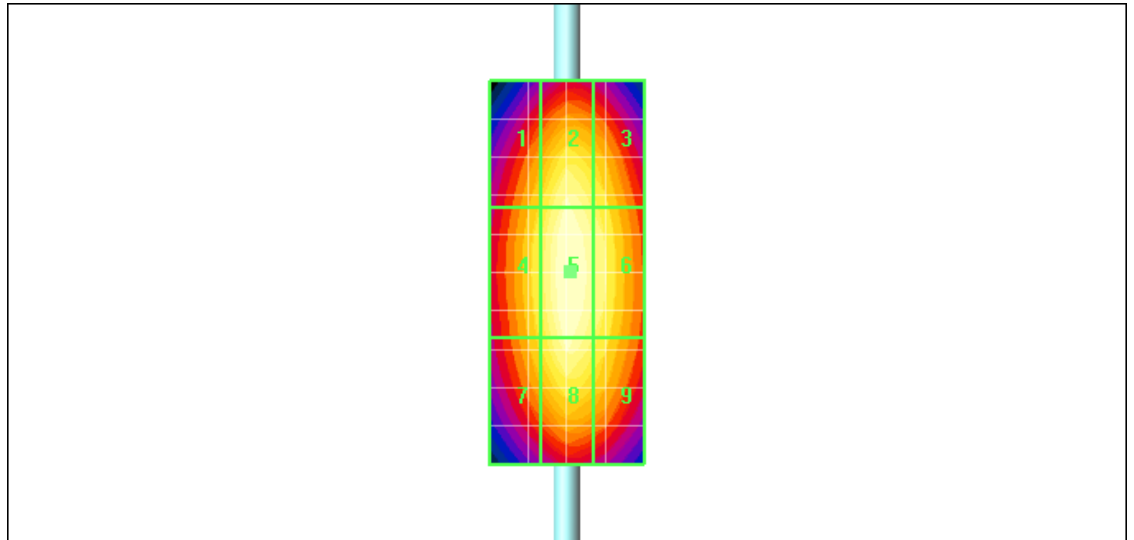
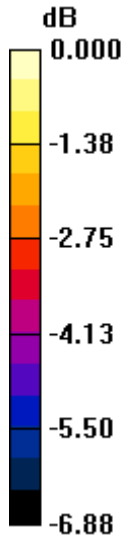
Grid 1 0.122 M4	Grid 2 0.136 M4	Grid 3 0.129 M4
Grid 4 0.127 M4	Grid 5 0.141 M3	Grid 6 0.134 M4
Grid 7 0.123 M4	Grid 8 0.137 M4	Grid 9 0.129 M4

Author Data
Daoud Attayi


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0 dB = 0.141A/m

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	Annex A Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCW41GW		51 (102)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	April 07-08, 2010	RTS-2341-1004-60	L6ARCW40GW

Date/Time: 4/8/2010 10:10:42 AM

File Name: [HAC_H_Dipole_CW1880_PMF_GSM_.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Program Name: HAC RF H3DV6 Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 0.337 A/m; Power Drift = 0.048 dB

Maximum value of Total (measured) = 0.317 A/m

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

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

dx=5mm, dy=5mm

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Author Data Daoud Attayi	Dates of Test April 07-08, 2010	Report No RTS-2341-1004-60	FCC ID L6ARCW40GW

Maximum value of peak Total field = 0.318 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.337 A/m; Power Drift = 0.048 dB

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

Peak H-field in A/m

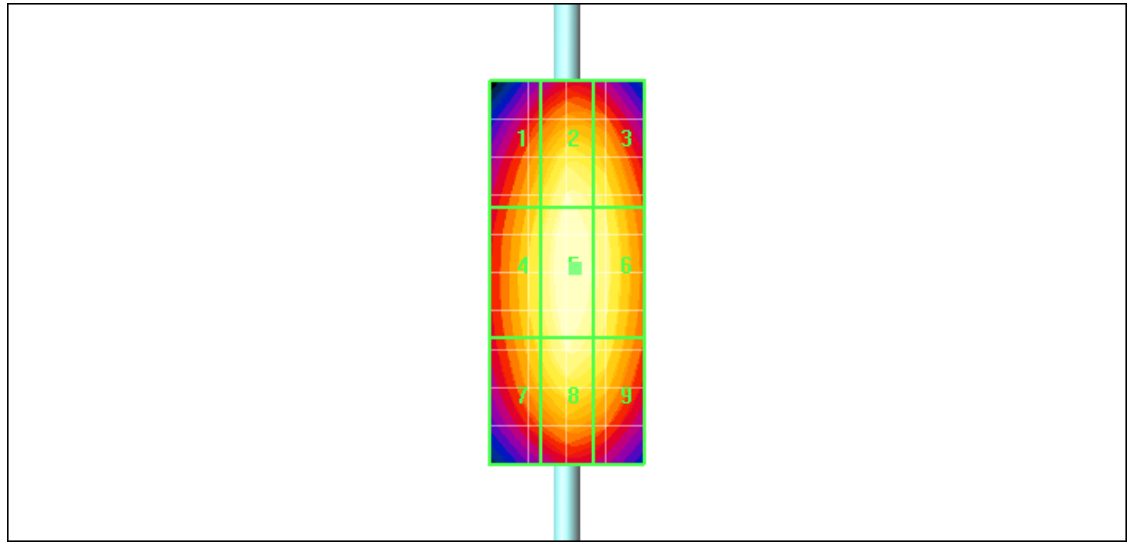
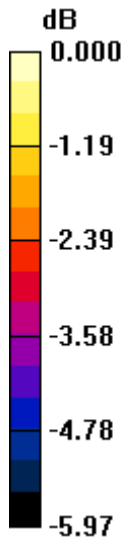
Grid 1 0.282 M3	Grid 2 0.310 M3	Grid 3 0.301 M3
Grid 4 0.294 M3	Grid 5 0.318 M3	Grid 6 0.308 M3
Grid 7 0.286 M3	Grid 8 0.309 M3	Grid 9 0.299 M3

Author Data
Daoud Attayi


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0 dB = 0.318A/m

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	Annex A Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCW41GW		54 (102)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	April 07-08, 2010	RTS-2341-1004-60	L6ARCW40GW

Date/Time: 4/8/2010 10:15:29 AM

HAC_H_Dipole_AM1880_PMF_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, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.212 A/m; Power Drift = -0.169 dB

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

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

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

dx=5mm, dy=5mm



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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 = 0.212 A/m; Power Drift = -0.169 dB

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

Peak H-field in A/m

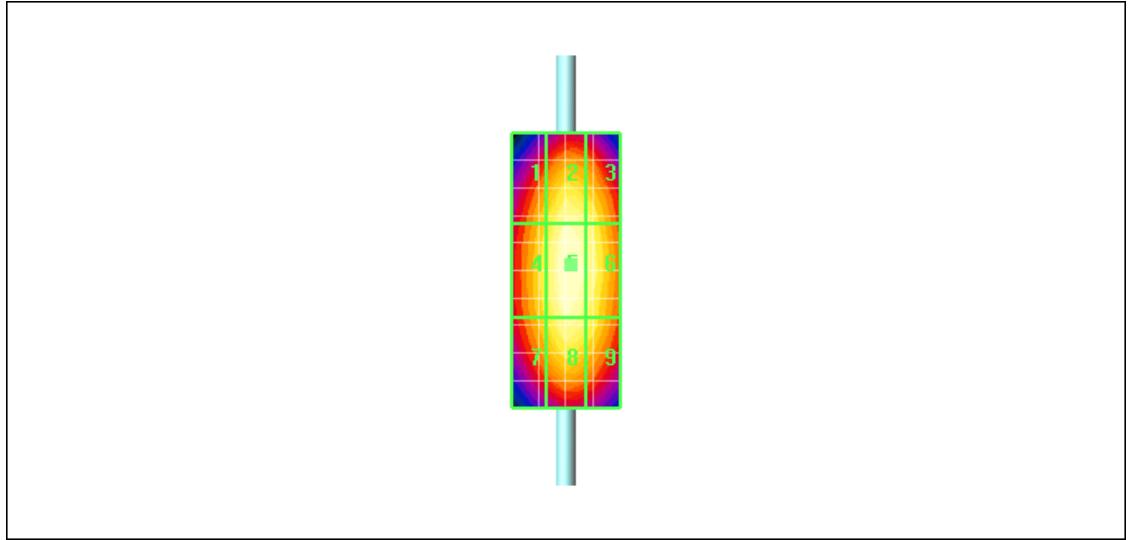
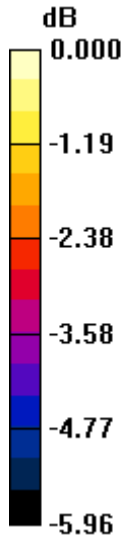
Grid 1 0.176 M4	Grid 2 0.193 M3	Grid 3 0.188 M4
Grid 4 0.182 M4	Grid 5 0.199 M3	Grid 6 0.194 M3
Grid 7 0.177 M4	Grid 8 0.192 M3	Grid 9 0.186 M4

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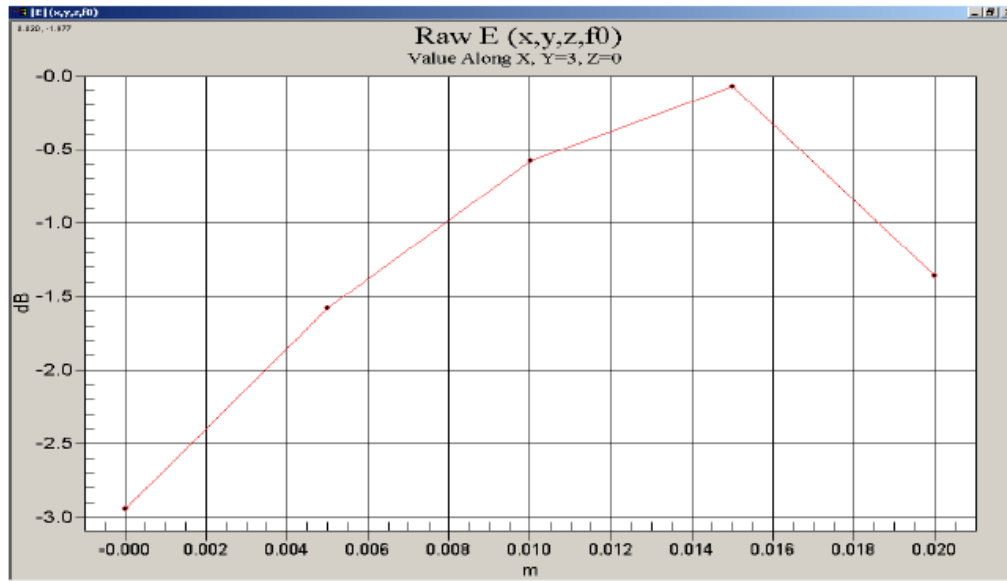
FCC ID
L6ARCW40GW



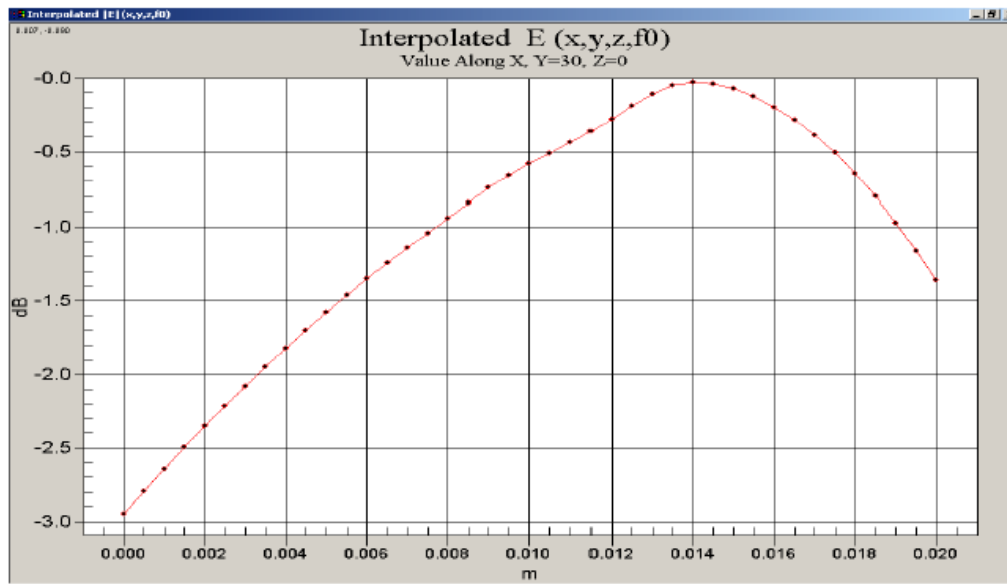
0 dB = 0.199A/m

Justification of Step Size and Interpolation


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

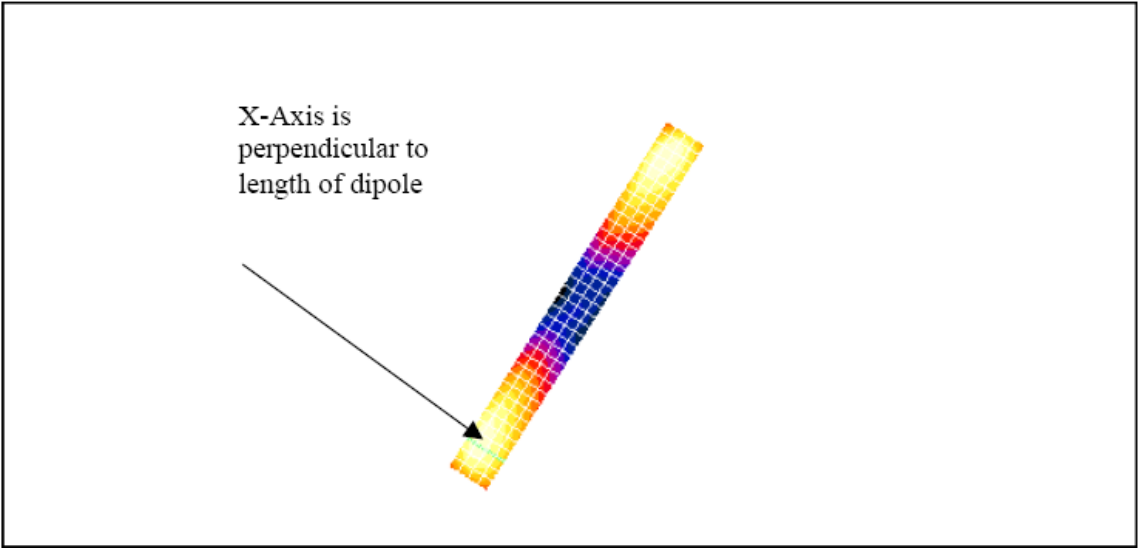


The figure above shows the raw measured field strength perpendicular to the length of the validation dipole. The TCB guidance slides require the 3dB width to be much larger than the step size. The width between -3dB points is > 21mm, at least 4 times the step size.



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

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

Comparison of 5mm and 2mm step sizes

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



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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

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

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Daoud Attayi

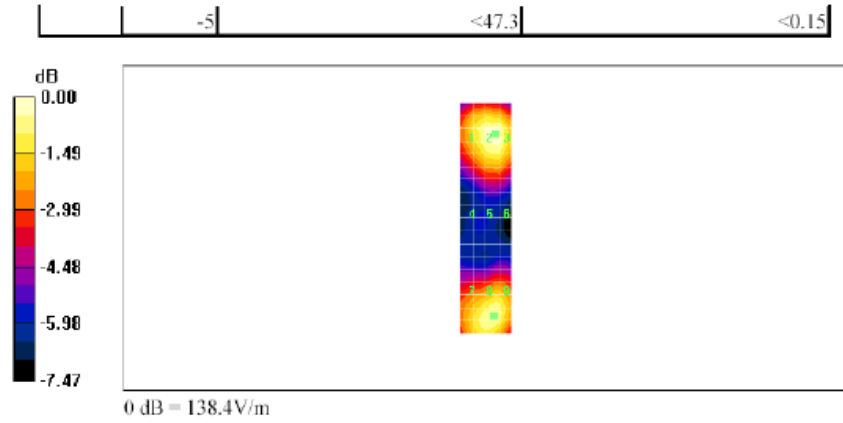
Dates of Test
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Daoud Attayi	April 07-08, 2010	RTS-2341-1004-60	L6ARCW40GW

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

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

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Daoud Attayi

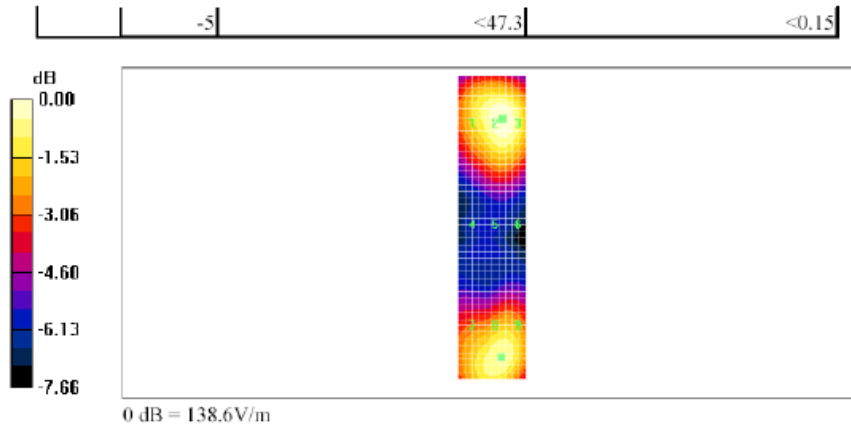
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Date/Time: 14/07/2005 12:43:02 PM

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

Author Data
Daoud Attayi

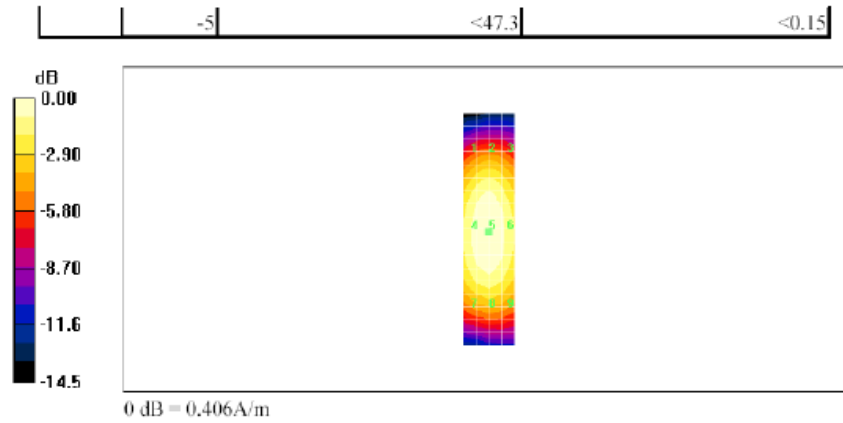
Dates of Test
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Date/Time: 14/07/2005 12:53:40 PM

Lab: RIM Testing Services (RTS)

HAC_H_Dipole_CW 1880_2 mm step_07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1
 Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/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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Author Data
Daoud Attayi

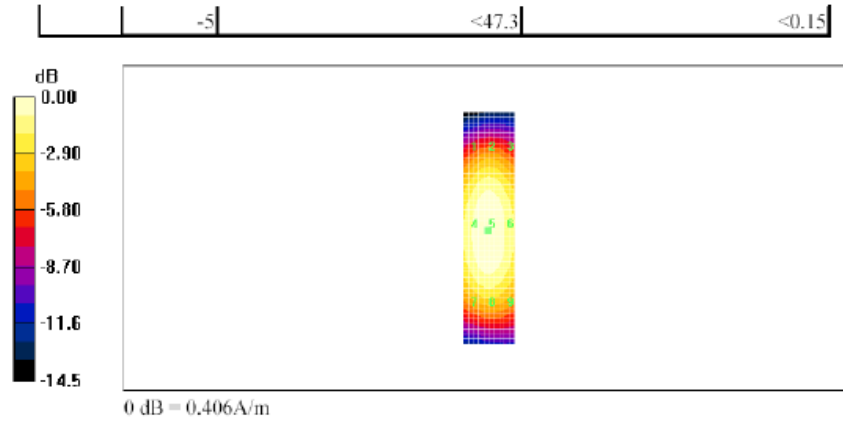
Dates of Test
April 07-08, 2010

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RTS-2341-1004-60


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

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Daoud Attayi	April 07-08, 2010	RTS-2341-1004-60	L6ARCW40GW

Date/Time: 4/8/2010 2:14:53 PM

File Name: [HAC_E_GSM850_low_Chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ;

Program Name: HAC RF ER3D Device

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid

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

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 102.0 V/m; Power Drift = -0.013 dB

Maximum value of Total (measured) = 81.3 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid

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

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Maximum value of peak Total field = 237.4 V/m

Probe Modulation Factor = 2.90

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 102.0 V/m; Power Drift = -0.013 dB

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

Peak E-field in V/m

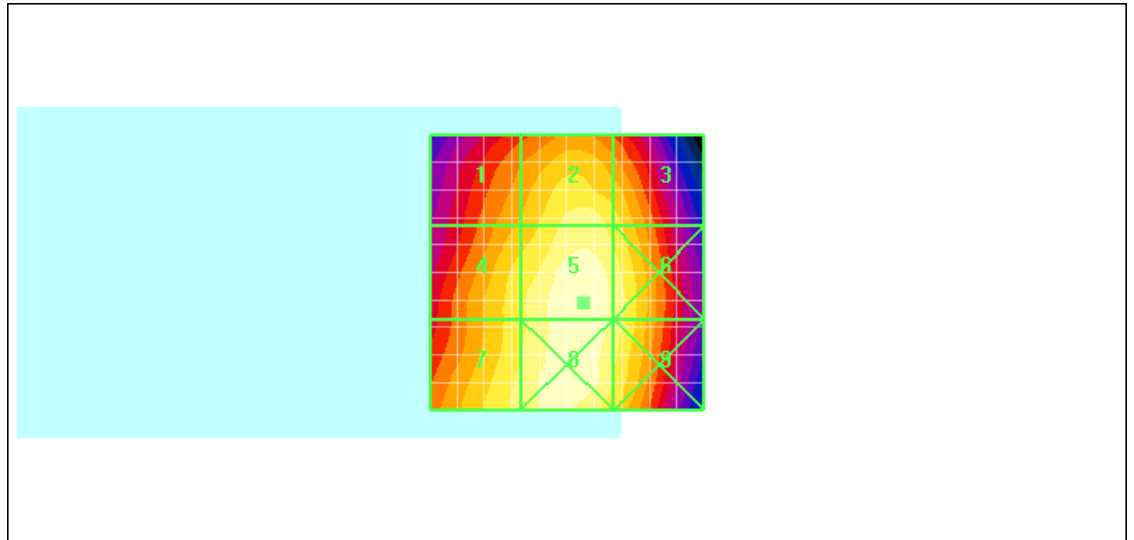
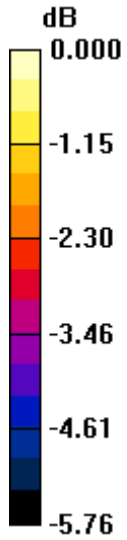
Grid 1 201.0 M3	Grid 2 223.0 M3	Grid 3 213.2 M3
Grid 4 215.5 M3	Grid 5 237.4 M3	Grid 6 225.0 M3
Grid 7 221.5 M3	Grid 8 236.8 M3	Grid 9 223.8 M3

Author Data
Daoud Attayi


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0 dB = 237.4V/m

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Date/Time: 4/8/2010 2:37:15 PM

File Name: [HAC_E_GSM850_mid_Chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ;

Program Name: HAC RF ER3D Device

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid

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

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 107.8 V/m; Power Drift = 0.025 dB

Maximum value of Total (measured) = 85.8 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid

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

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Author Data Daoud Attayi	Dates of Test April 07-08, 2010	Report No RTS-2341-1004-60	FCC ID L6ARCW40GW

Maximum value of peak Total field = 247.9 V/m

Probe Modulation Factor = 2.90

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 107.8 V/m; Power Drift = 0.025 dB

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

Peak E-field in V/m

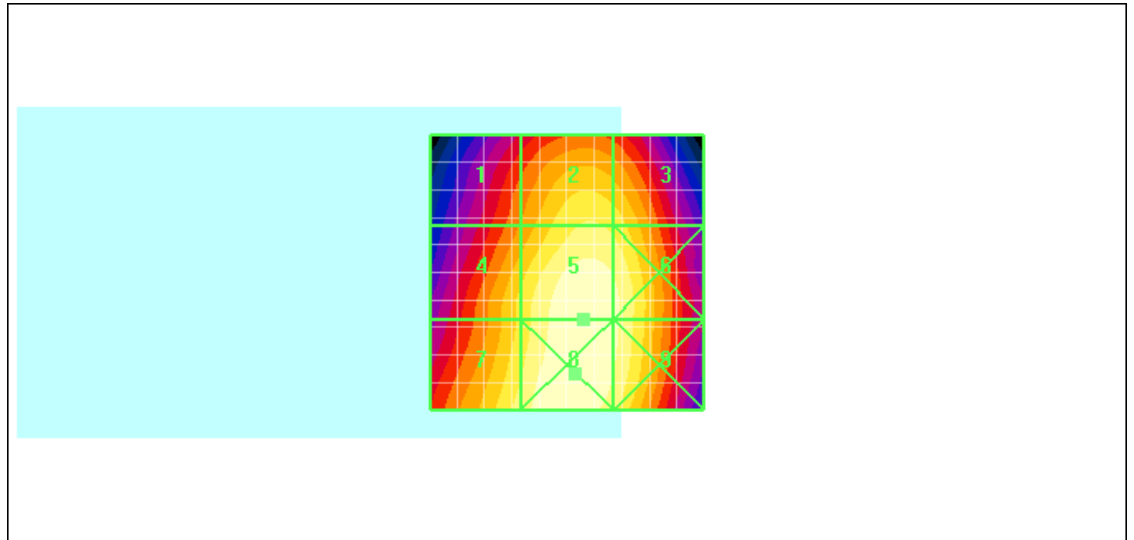
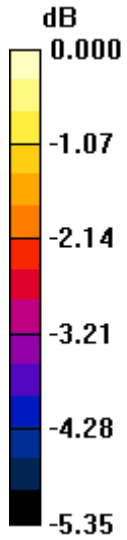
Grid 1 204.0 M3	Grid 2 231.0 M3	Grid 3 227.1 M3
Grid 4 223.5 M3	Grid 5 247.9 M3	Grid 6 242.2 M3
Grid 7 234.2 M3	Grid 8 249.3 M3	Grid 9 242.0 M3

Author Data
Daoud Attayi


Dates of Test
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0 dB = 249.3V/m

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Author Data Daoud Attayi	Dates of Test April 07-08, 2010	Report No RTS-2341-1004-60	FCC ID L6ARCW40GW

Date/Time: 4/8/2010 2:47:08 PM

File Name: [HAC_E_GSM850_high_Chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ;

Program Name: HAC RF ER3D Device

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid

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

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 104.2 V/m; Power Drift = -0.002 dB

Maximum value of Total (measured) = 82.4 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid

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

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	Annex A Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCW41GW		74 (102)
Author Data Daoud Attayi	Dates of Test April 07-08, 2010	Report No RTS-2341-1004-60	FCC ID L6ARCW40GW

Maximum value of peak Total field = 240.3 V/m

Probe Modulation Factor = 2.90

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 104.2 V/m; Power Drift = -0.002 dB

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

Peak E-field in V/m

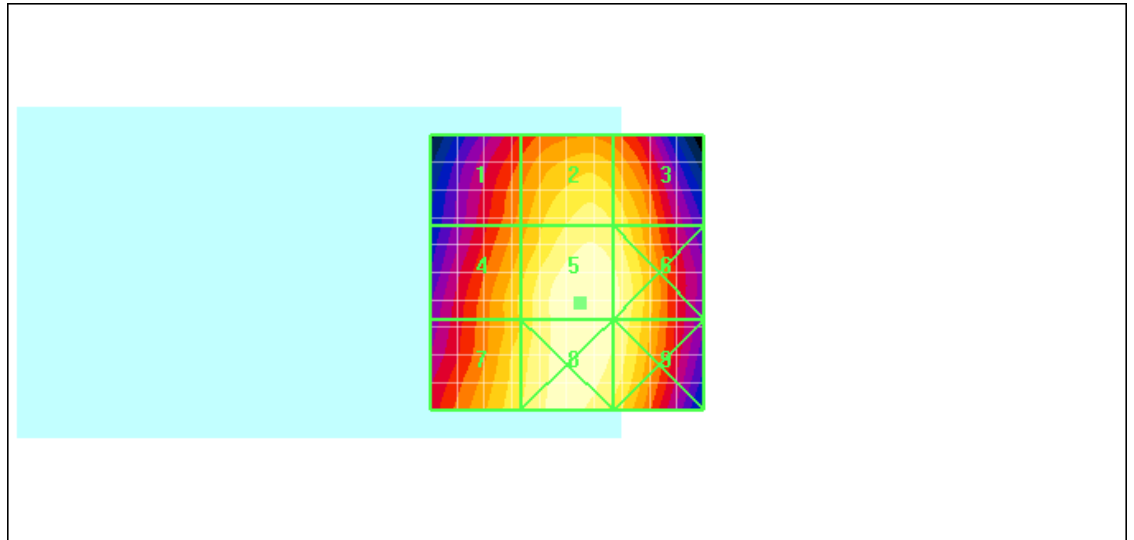
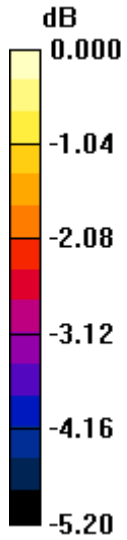
Grid 1 200.7 M3	Grid 2 227.5 M3	Grid 3 222.3 M3
Grid 4 215.3 M3	Grid 5 240.3 M3	Grid 6 234.2 M3
Grid 7 221.5 M3	Grid 8 239.8 M3	Grid 9 232.2 M3

Author Data
Daoud Attayi


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0 dB = 240.3V/m

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	Annex A Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCW41GW		76 (102)
Author Data Daoud Attayi	Dates of Test April 07-08, 2010	Report No RTS-2341-1004-60	FCC ID L6ARCW40GW

Date/Time: 4/8/2010 3:11:57 PM

File Name: [HAC_E_GSM1900_low_Chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ;

Program Name: HAC RF ER3D Device

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid

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

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 11.8 V/m; Power Drift = 0.048 dB

Maximum value of Total (measured) = 26.2 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid

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

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	Annex A Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCW41GW		77 (102)
Author Data Daoud Attayi	Dates of Test April 07-08, 2010	Report No RTS-2341-1004-60	FCC ID L6ARCW40GW

Maximum value of peak Total field = 52.2 V/m

Probe Modulation Factor = 2.64

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 11.8 V/m; Power Drift = 0.048 dB

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

Peak E-field in V/m

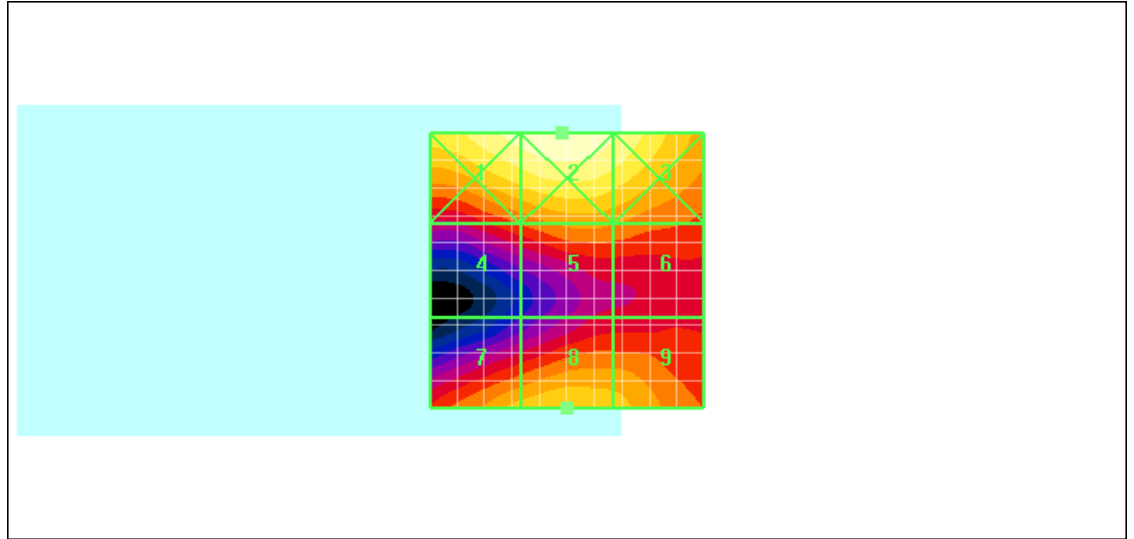
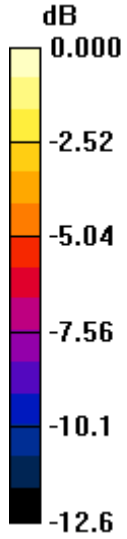
Grid 1 65.9 M3	Grid 2 69.2 M3	Grid 3 63.8 M3
Grid 4 39.0 M4	Grid 5 44.2 M4	Grid 6 42.9 M4
Grid 7 49.4 M3	Grid 8 52.2 M3	Grid 9 49.1 M3

Author Data
Daoud Attayi


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0 dB = 69.2V/m

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Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	April 07-08, 2010	RTS-2341-1004-60	L6ARCW40GW

Date/Time: 4/8/2010 3:19:53 PM

File Name: [HAC_E_GSM1900_mid_Chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ;

Program Name: HAC RF ER3D Device

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid

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

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 12.4 V/m; Power Drift = 0.037 dB

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

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid

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

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	Annex A Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCW41GW		80 (102)
Author Data Daoud Attayi	Dates of Test April 07-08, 2010	Report No RTS-2341-1004-60	FCC ID L6ARCW40GW

Maximum value of peak Total field = 47.5 V/m

Probe Modulation Factor = 2.64

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 12.4 V/m; Power Drift = 0.037 dB

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

Peak E-field in V/m

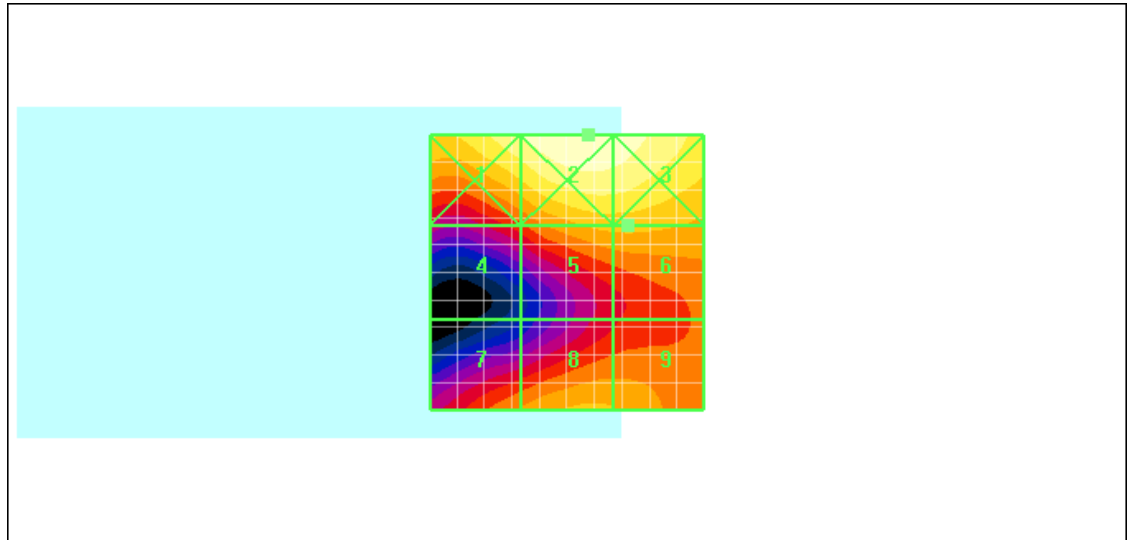
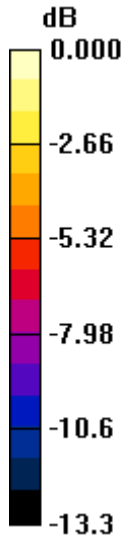
Grid 1 61.6 M3	Grid 2 68.8 M3	Grid 3 67.2 M3
Grid 4 36.2 M4	Grid 5 47.4 M3	Grid 6 47.5 M3
Grid 7 41.8 M4	Grid 8 47.0 M4	Grid 9 46.2 M4

Author Data
Daoud Attayi


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0 dB = 68.8V/m

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Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	April 07-08, 2010	RTS-2341-1004-60	L6ARCW40GW

Date/Time: 4/8/2010 3:25:47 PM

File Name: [HAC_E_GSM1900_high_Chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ;

Program Name: HAC RF ER3D Device

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid

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

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 13.9 V/m; Power Drift = -0.166 dB

Maximum value of Total (measured) = 24.2 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid

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

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	Annex A Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCW41GW		83 (102)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	April 07-08, 2010	RTS-2341-1004-60	L6ARCW40GW

Maximum value of peak Total field = 47.7 V/m

Probe Modulation Factor = 2.64

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 13.9 V/m; Power Drift = -0.166 dB

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

Peak E-field in V/m

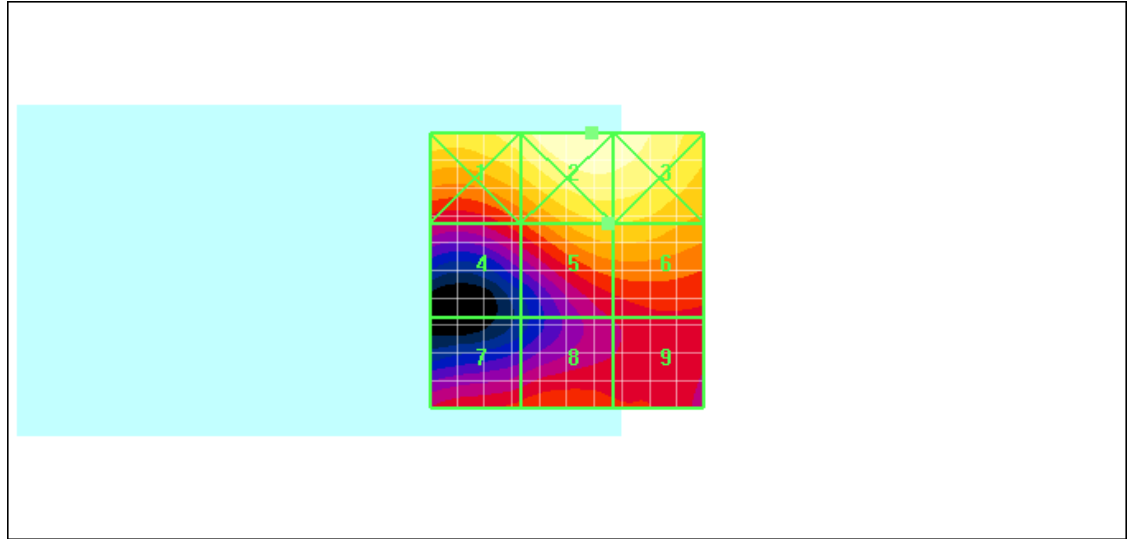
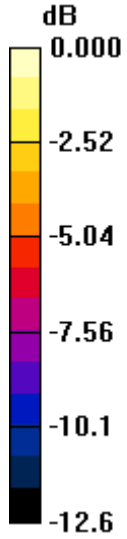
Grid 1	Grid 2	Grid 3
56.3 M3	64.0 M3	62.9 M3
Grid 4	Grid 5	Grid 6
35.3 M4	47.7 M3	47.7 M3
Grid 7	Grid 8	Grid 9
34.0 M4	35.9 M4	33.5 M4

Author Data
Daoud Attayi


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0 dB = 64.0V/m

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Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	April 07-08, 2010	RTS-2341-1004-60	L6ARCW40GW

Date/Time: 4/8/2010 4:00:35 PM

File Name: [HAC_H_GSM_800_low_chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ;

Program Name: HAC RF H3DV6 Device

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid
Compatibility Test (11x11x1):** Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.087 A/m; Power Drift = -0.001 dB

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

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

Maximum value of peak Total field = 0.514 A/m

Probe Modulation Factor = 2.78



Author Data
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Dates of Test
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Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.087 A/m; Power Drift = -0.001 dB

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

Peak H-field in A/m

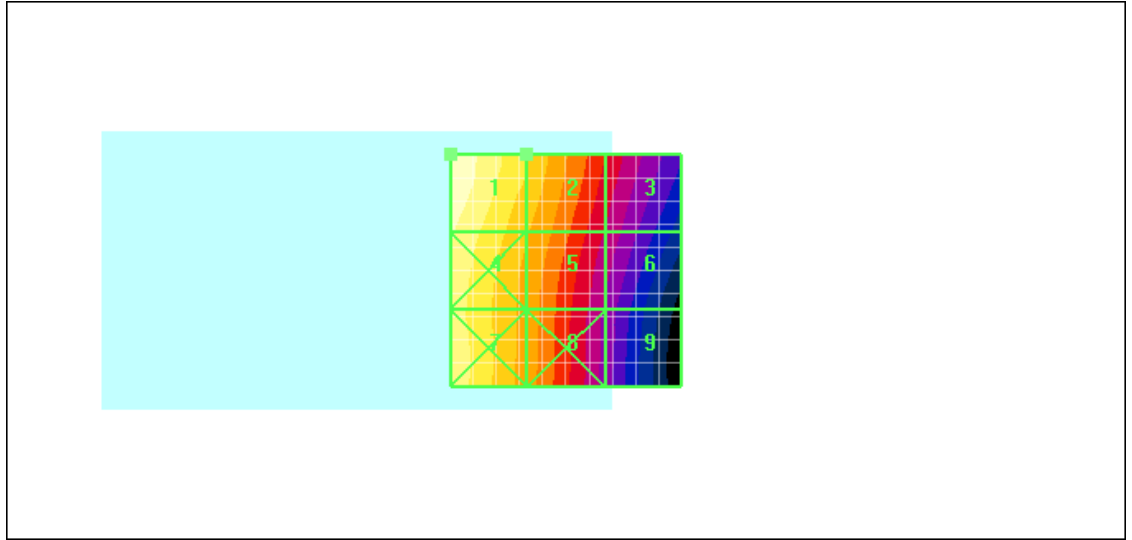
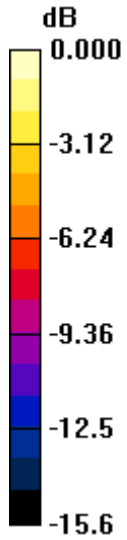
Grid 1 0.514 M3	Grid 2 0.362 M4	Grid 3 0.222 M4
Grid 4 0.467 M3	Grid 5 0.324 M4	Grid 6 0.196 M4
Grid 7 0.444 M4	Grid 8 0.304 M4	Grid 9 0.171 M4

Author Data
Daoud Attayi


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0 dB = 0.514A/m

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Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	April 07-08, 2010	RTS-2341-1004-60	L6ARCW40GW

Date/Time: 4/8/2010 4:06:15 PM

File Name: [HAC_H_GSM_800_mid_chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ;

Program Name: HAC RF H3DV6 Device

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid

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

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 0.099 A/m; Power Drift = 0.009 dB

Maximum value of Total (measured) = 0.197 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid

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

Maximum value of peak Total field = 0.548 A/m

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	Annex A_Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCW41GW		89 (102)
Author Data Daoud Attayi	Dates of Test April 07-08, 2010	Report No RTS-2341-1004-60	FCC ID L6ARCW40GW

Probe Modulation Factor = 2.78

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.099 A/m; Power Drift = 0.009 dB

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

Peak H-field in A/m

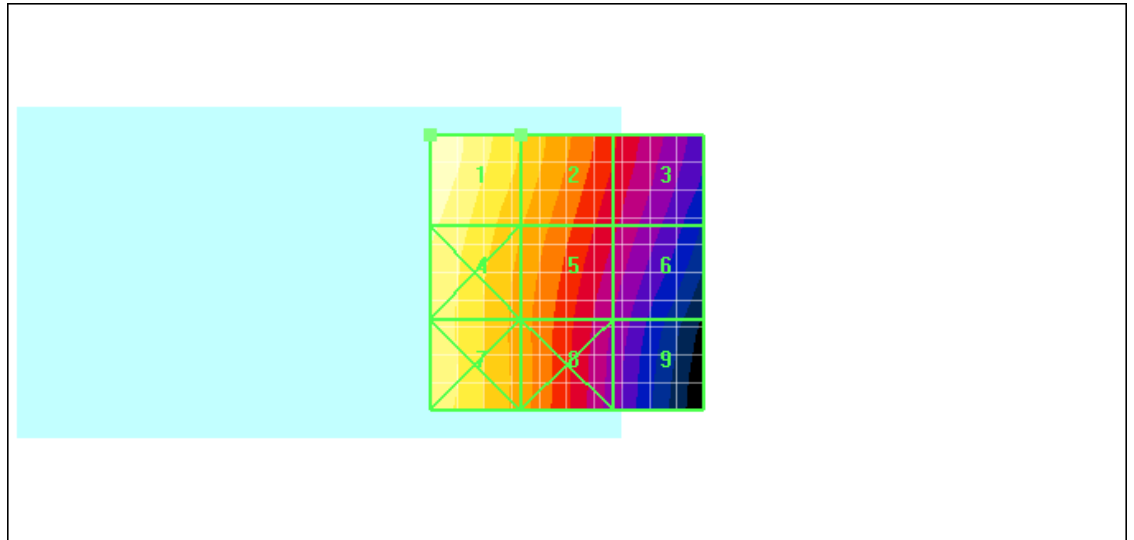
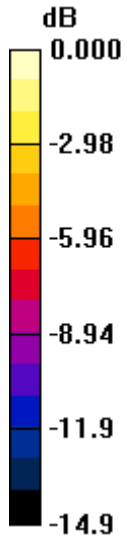
Grid 1 0.548 M3	Grid 2 0.390 M4	Grid 3 0.251 M4
Grid 4 0.502 M3	Grid 5 0.352 M4	Grid 6 0.225 M4
Grid 7 0.483 M3	Grid 8 0.330 M4	Grid 9 0.195 M4

Author Data
Daoud Attayi


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0 dB = 0.548A/m

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	Annex A Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCW41GW		91 (102)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	April 07-08, 2010	RTS-2341-1004-60	L6ARCW40GW

Date/Time: 4/8/2010 4:18:14 PM

File Name: [HAC_H_GSM_850_high_chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ;

Program Name: HAC RF H3DV6 Device

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 0.111 A/m; Power Drift = -0.066 dB

Maximum value of Total (measured) = 0.204 A/m

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

Maximum value of peak Total field = 0.567 A/m

Probe Modulation Factor = 2.78

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	Annex A Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCW41GW		92 (102)
Author Data Daoud Attayi	Dates of Test April 07-08, 2010	Report No RTS-2341-1004-60	FCC ID L6ARCW40GW

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.111 A/m; Power Drift = -0.066 dB

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

Peak H-field in A/m

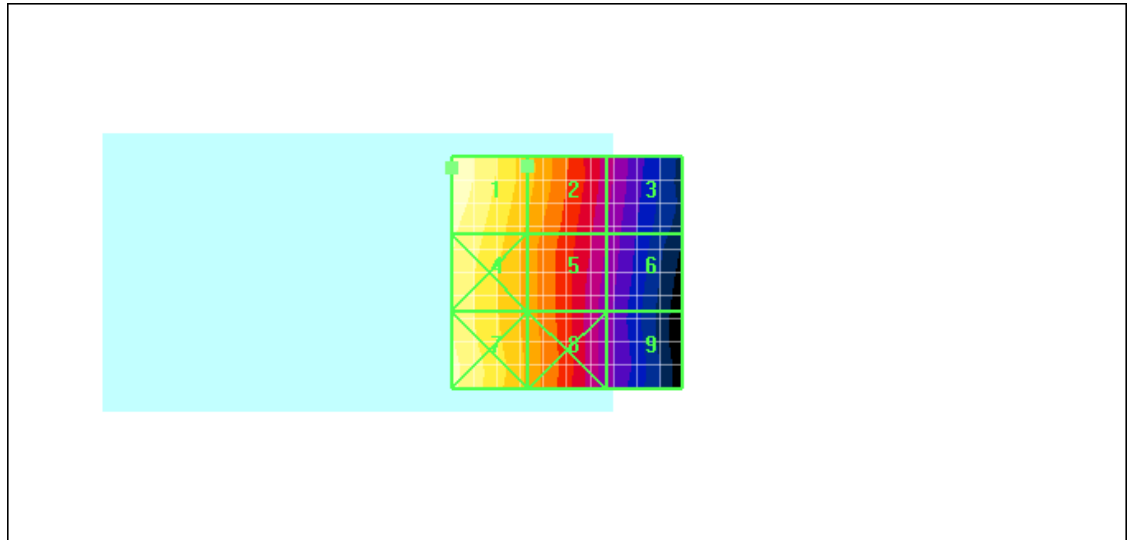
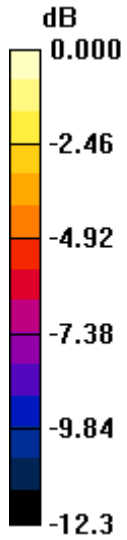
Grid 1 0.567 M3	Grid 2 0.405 M4	Grid 3 0.256 M4
Grid 4 0.526 M3	Grid 5 0.381 M4	Grid 6 0.243 M4
Grid 7 0.533 M3	Grid 8 0.383 M4	Grid 9 0.231 M4

Author Data
Daoud Attayi


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0 dB = 0.567A/m

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Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	April 07-08, 2010	RTS-2341-1004-60	L6ARCW40GW

Date/Time: 4/8/2010 3:38:29 PM

File Name: [HAC_H_GSM_1900_low_chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ;

Program Name: HAC RF H3DV6 Device

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid

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

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 0.077 A/m; Power Drift = -0.037 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: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.158 A/m

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	Author Data Daoud Attayi	Dates of Test April 07-08, 2010	Report No RTS-2341-1004-60

Probe Modulation Factor = 2.26

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.077 A/m; Power Drift = -0.037 dB

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

Peak H-field in A/m

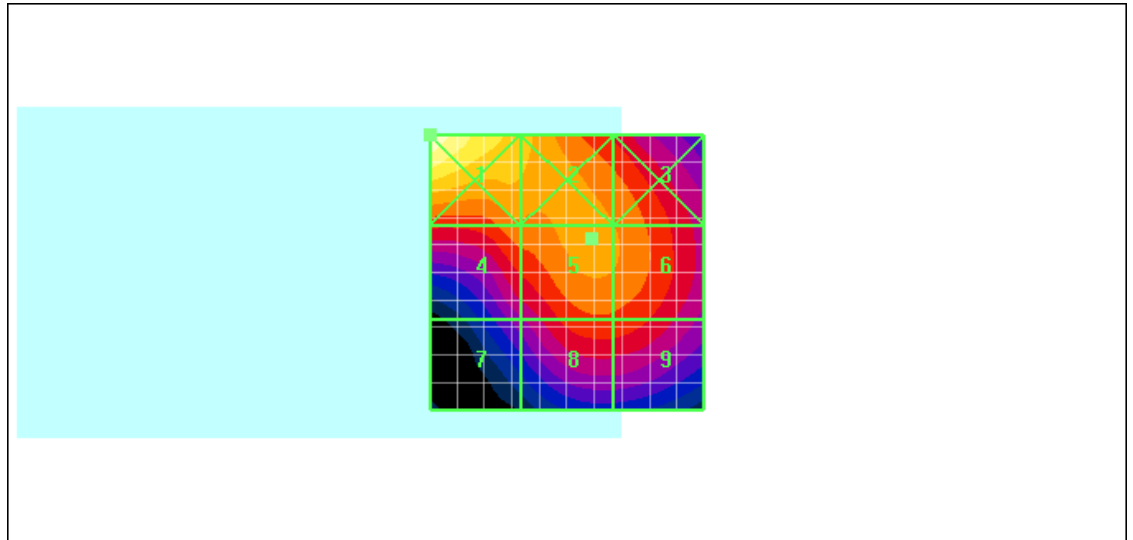
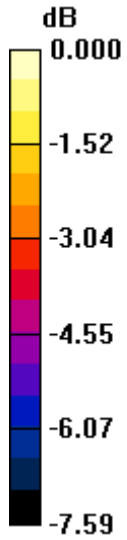
Grid 1	Grid 2	Grid 3
0.207 M3	0.169 M3	0.155 M3
Grid 4	Grid 5	Grid 6
0.153 M3	0.158 M3	0.156 M3
Grid 7	Grid 8	Grid 9
0.121 M4	0.145 M3	0.144 M3

Author Data
Daoud Attayi


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0 dB = 0.207A/m

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Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	April 07-08, 2010	RTS-2341-1004-60	L6ARCW40GW

Date/Time: 4/8/2010 3:44:57 PM

File Name: [HAC_H_GSM_1900_mid_chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ;

Program Name: HAC RF H3DV6 Device

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid
Compatibility Test (11x11x1):** Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.073 A/m; Power Drift = -0.015 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: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.155 A/m

Probe Modulation Factor = 2.26



Author Data
Daoud Attayi

Dates of Test
April 07-08, 2010

Report No
RTS-2341-1004-60

FCC ID
L6ARCW40GW

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.073 A/m; Power Drift = -0.015 dB

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

Peak H-field in A/m

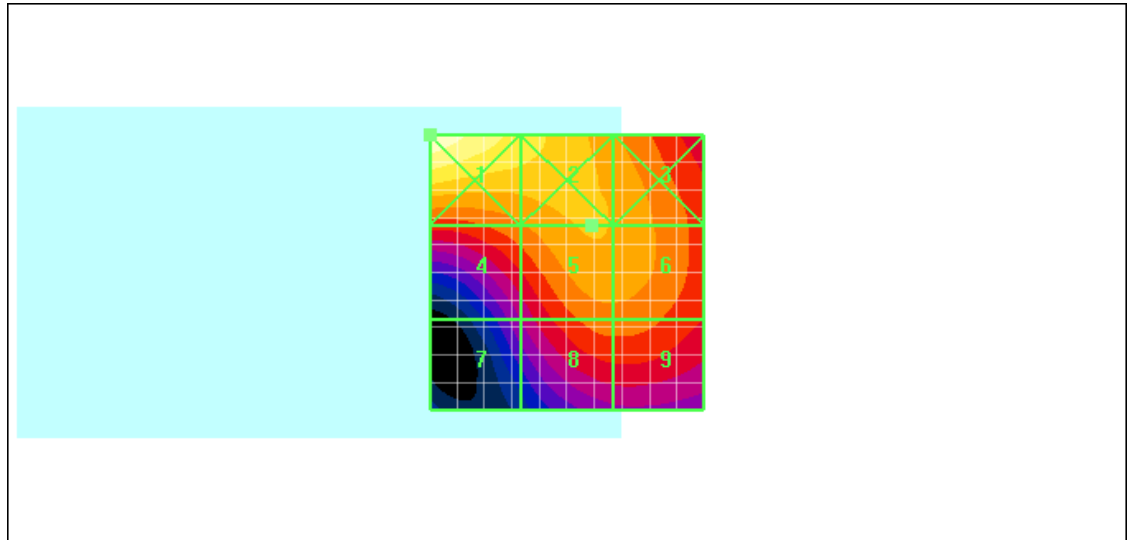
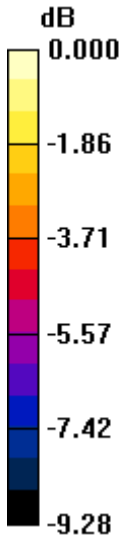
Grid 1 0.205 M3	Grid 2 0.173 M3	Grid 3 0.153 M3
Grid 4 0.142 M3	Grid 5 0.155 M3	Grid 6 0.154 M3
Grid 7 0.108 M4	Grid 8 0.139 M4	Grid 9 0.139 M4

Author Data
Daoud Attayi


Dates of Test
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0 dB = 0.205A/m

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	Annex A Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCW41GW		100 (102)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	April 07-08, 2010	RTS-2341-1004-60	L6ARCW40GW

Date/Time: 4/8/2010 3:54:47 PM

File Name: [HAC_H_GSM_1900_high_chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ;

Program Name: HAC RF H3DV6 Device

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid
Compatibility Test (11x11x1):** Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.063 A/m; Power Drift = 0.109 dB

Maximum value of Total (measured) = 0.092 A/m

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

Maximum value of peak Total field = 0.138 A/m

Probe Modulation Factor = 2.26



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Device Reference Point: 0.000, 0.000, -6.30 mm
Reference Value = 0.063 A/m; Power Drift = 0.109 dB
Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak H-field in A/m

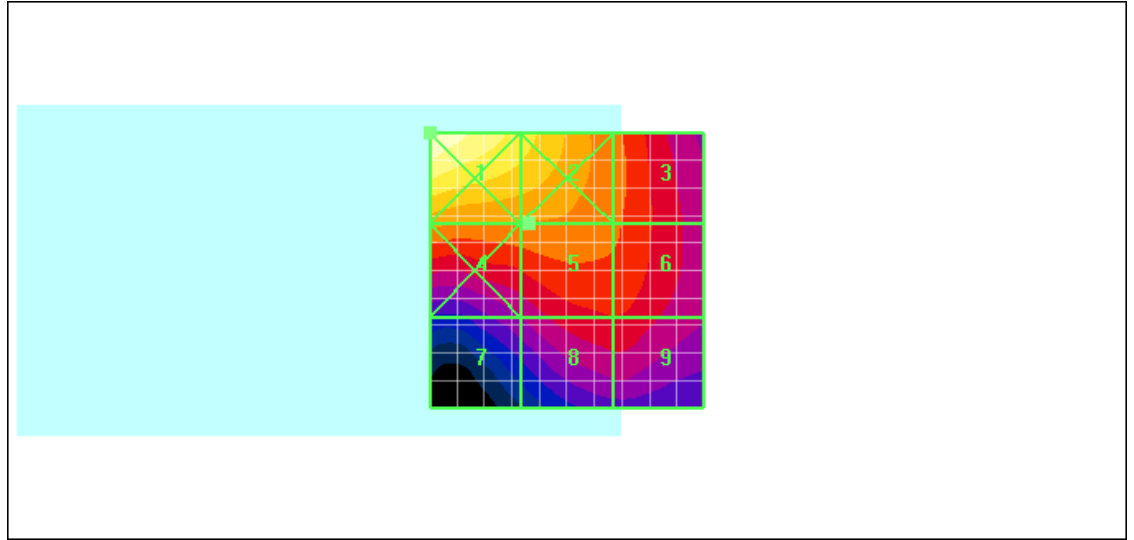
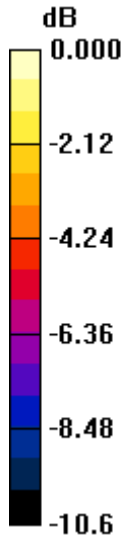
Grid 1 0.208 M3	Grid 2 0.171 M3	Grid 3 0.132 M4
Grid 4 0.143 M3	Grid 5 0.138 M4	Grid 6 0.130 M4
Grid 7 0.100 M4	Grid 8 0.118 M4	Grid 9 0.118 M4

Author Data
Daoud Attayi

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0 dB = 0.208A/m