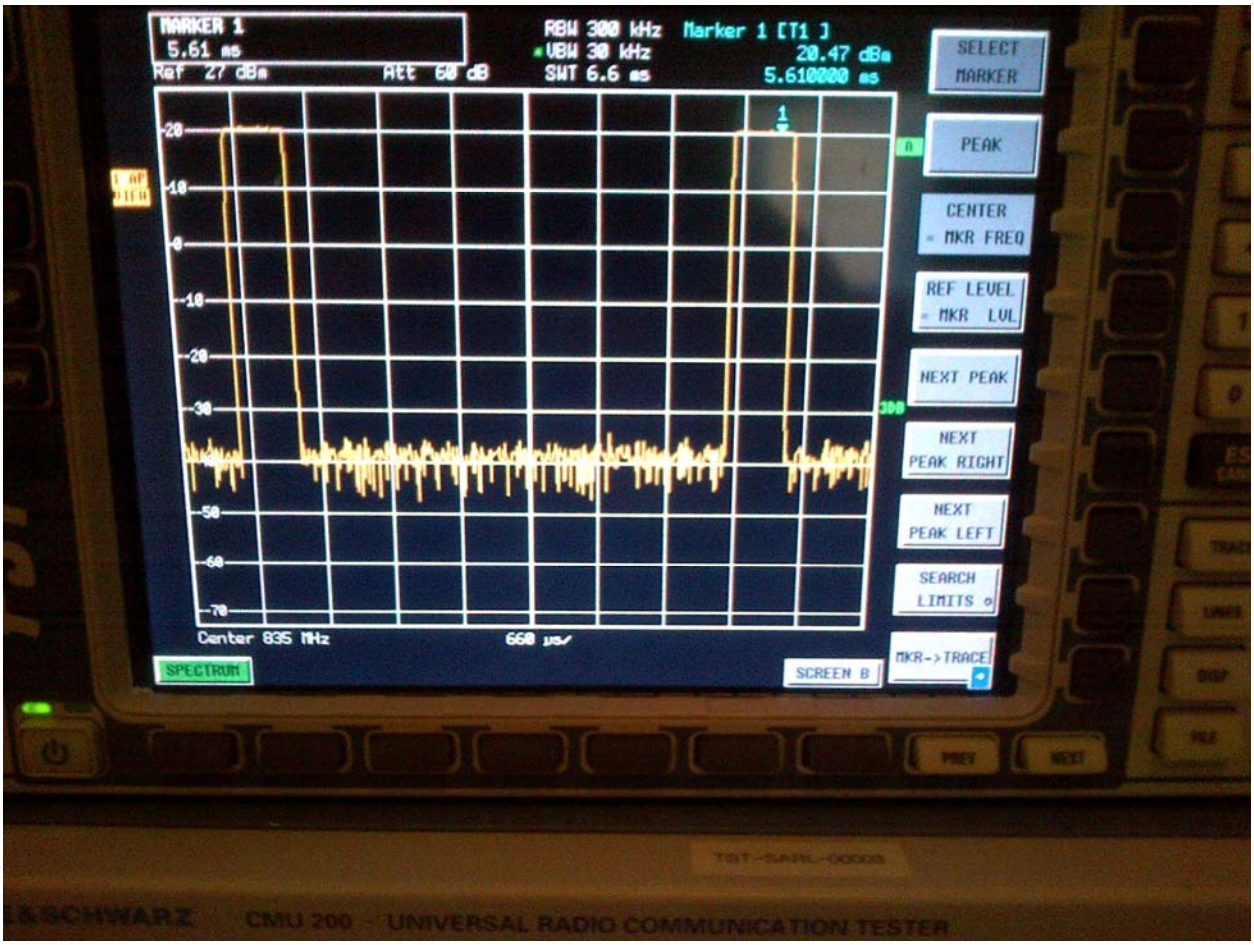
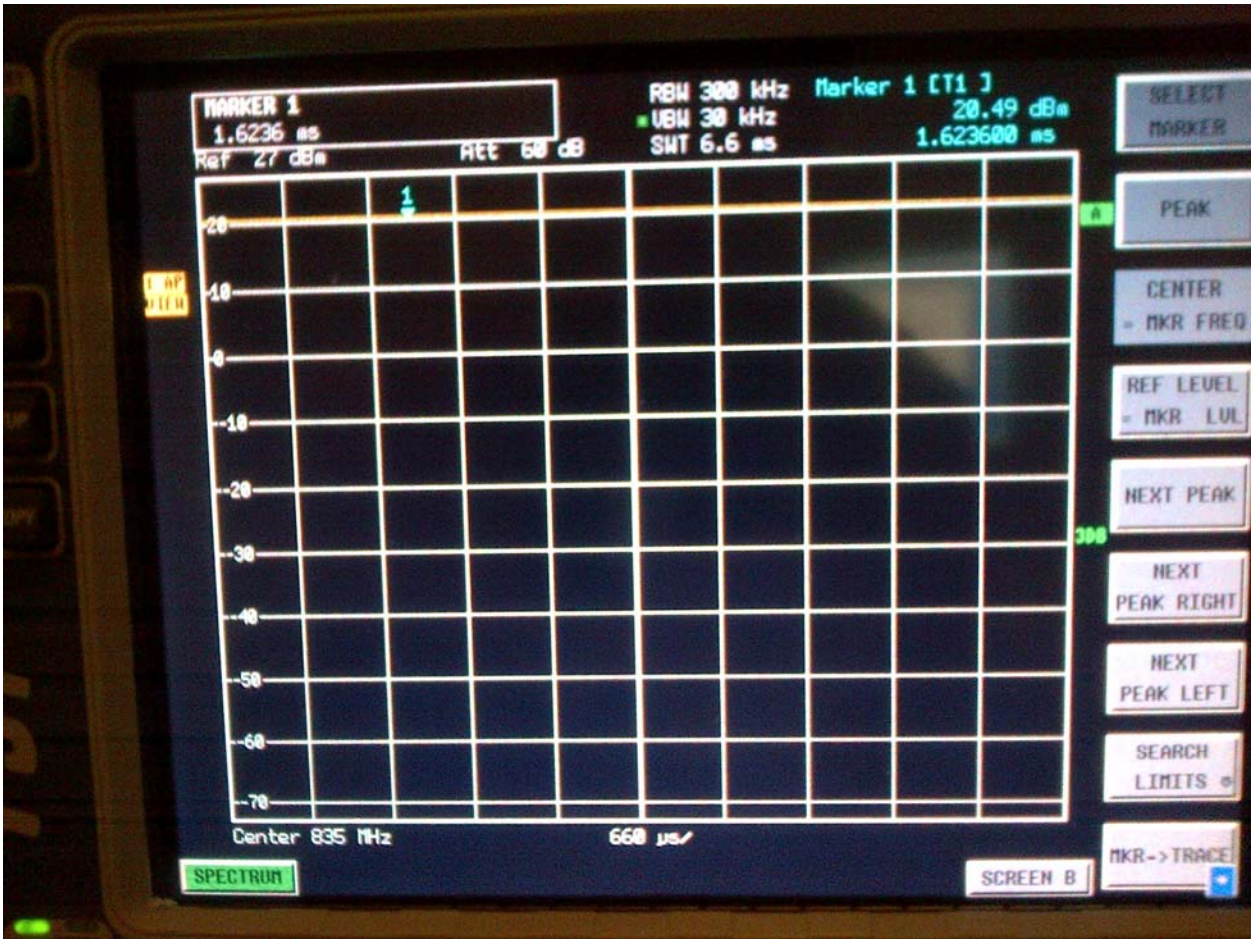
Annex A: Measurement data and plots

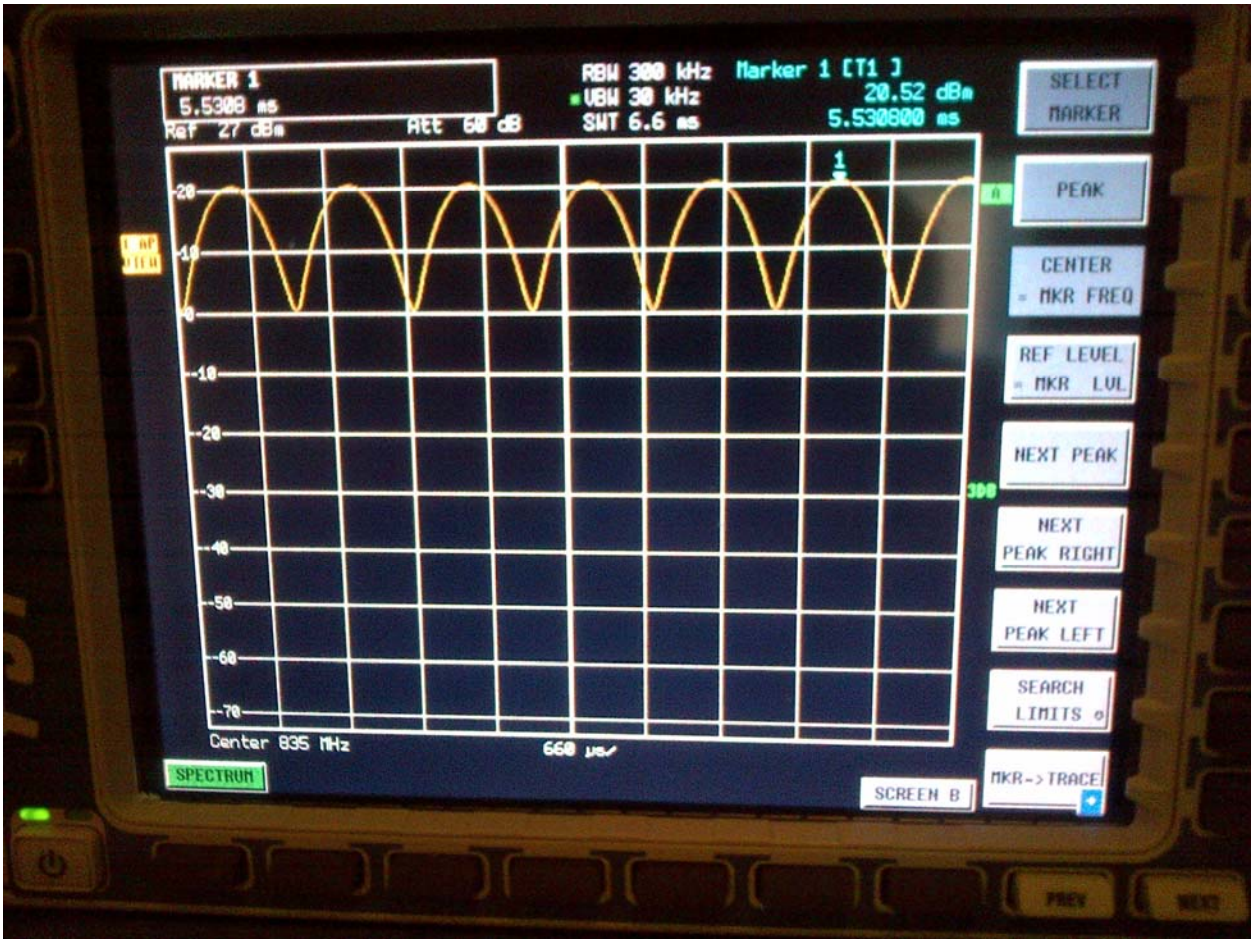
A.1 Spectrum analyser plots: GSM/UMTS, CW, 80%AM, signals



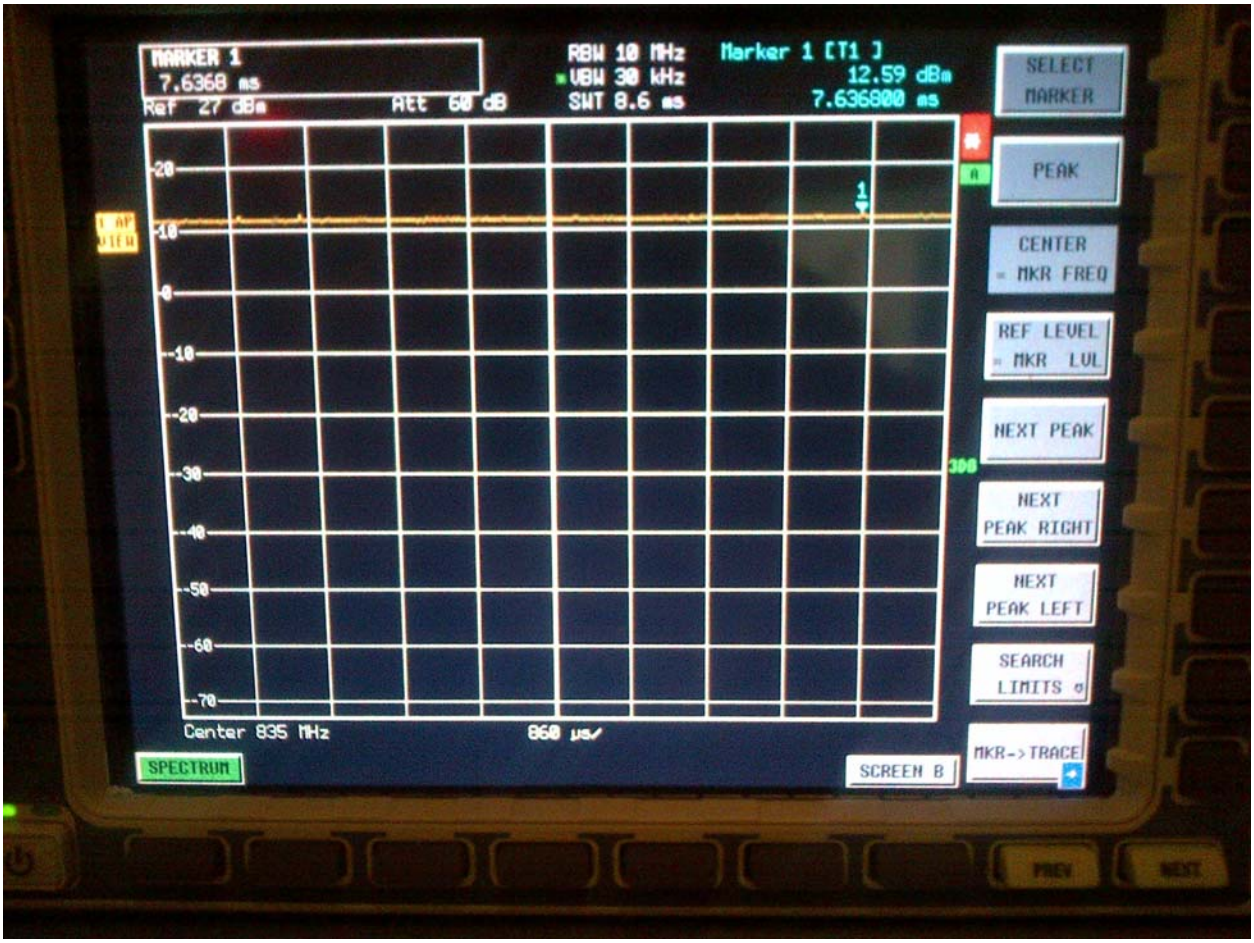
GSM 835 MHz



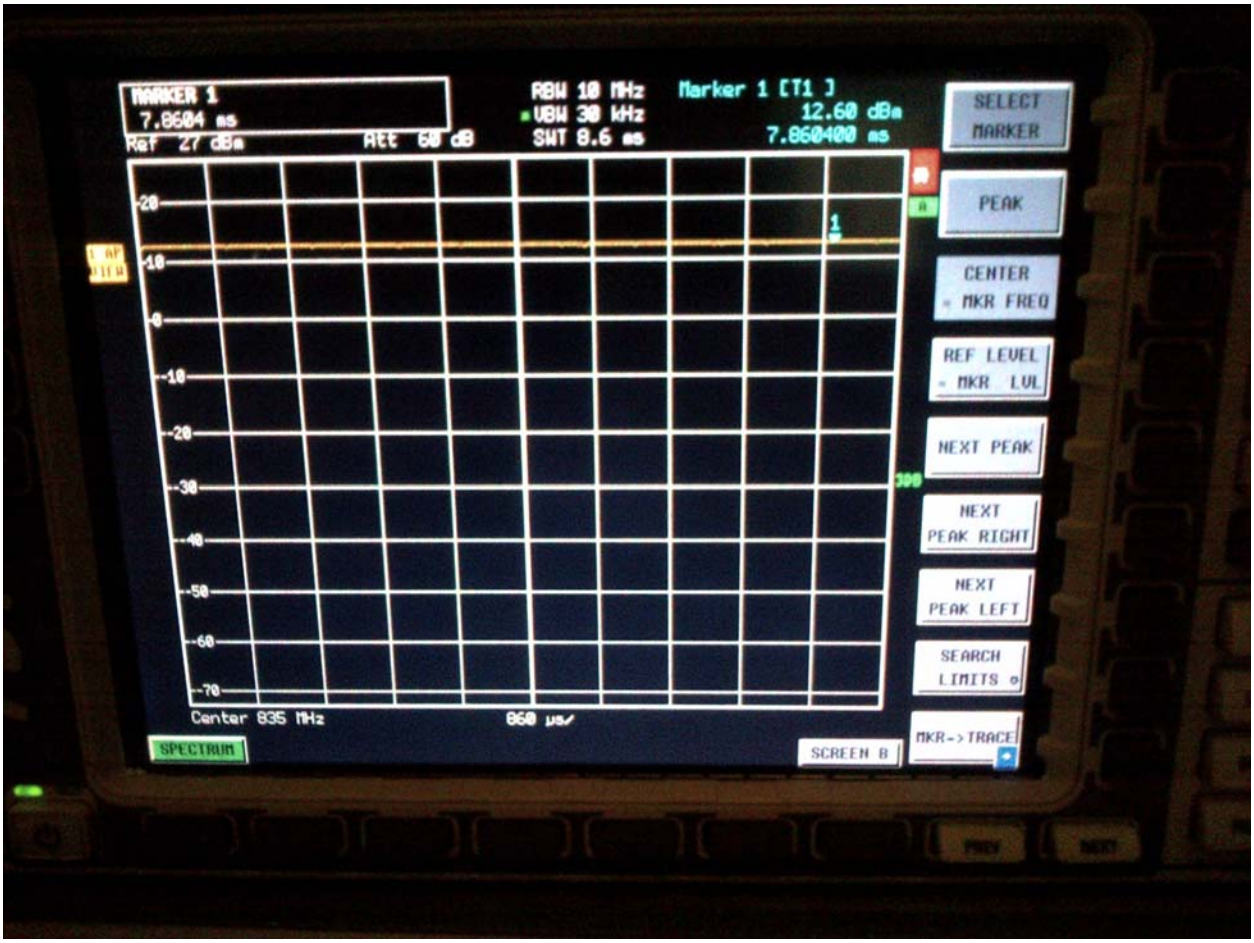
CW 835 MHz



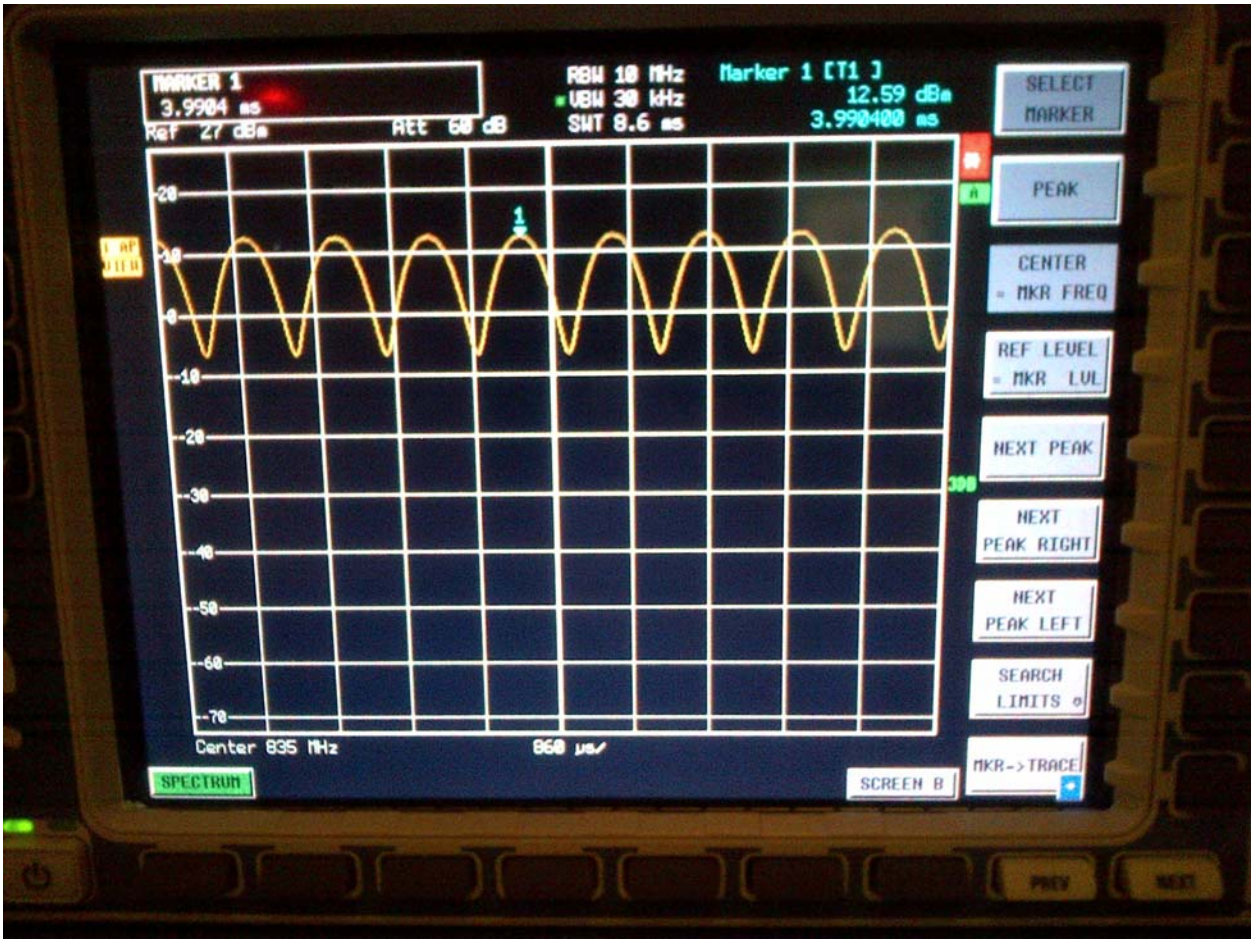
AM 80% 835 MHz



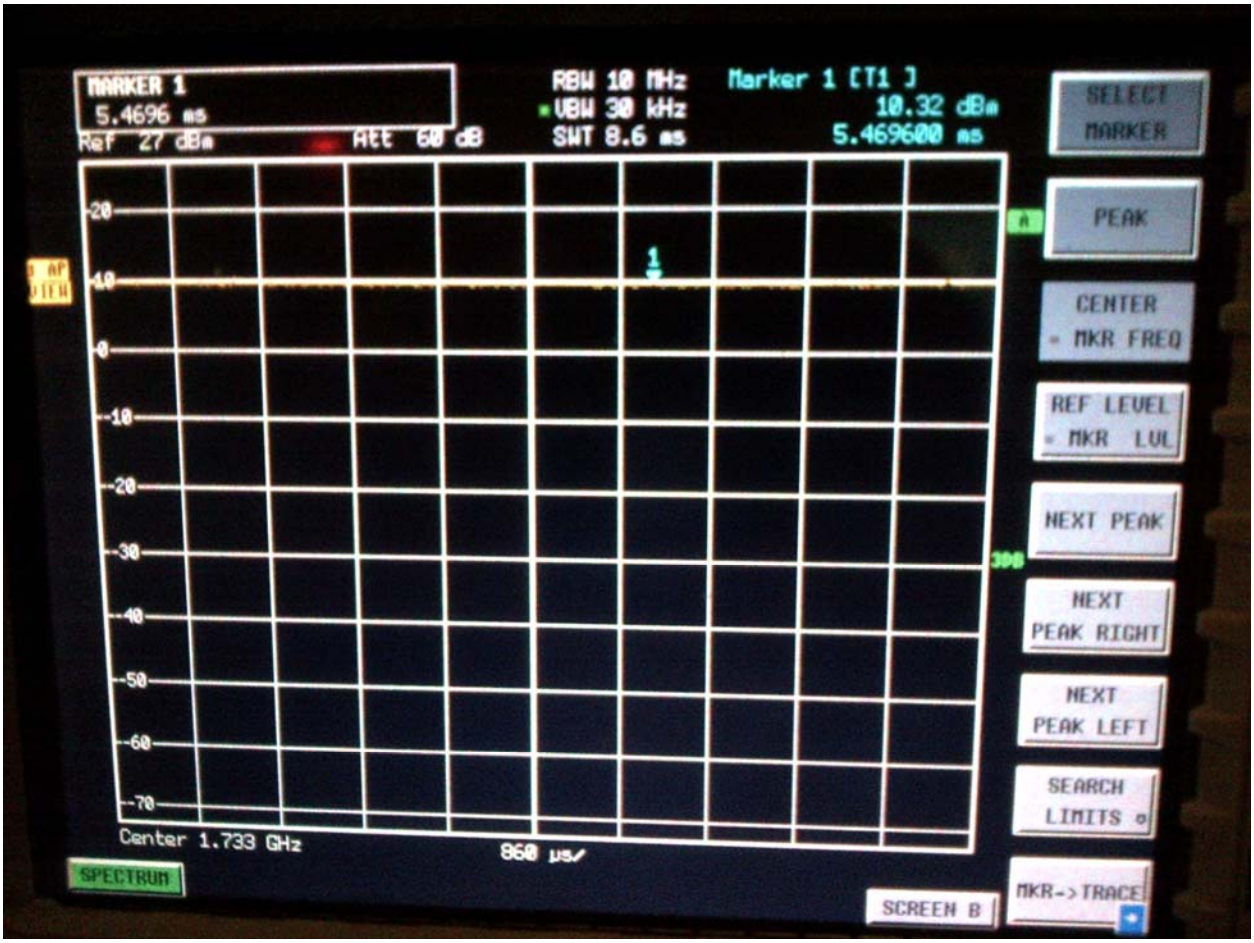
UMTS 835 MHz



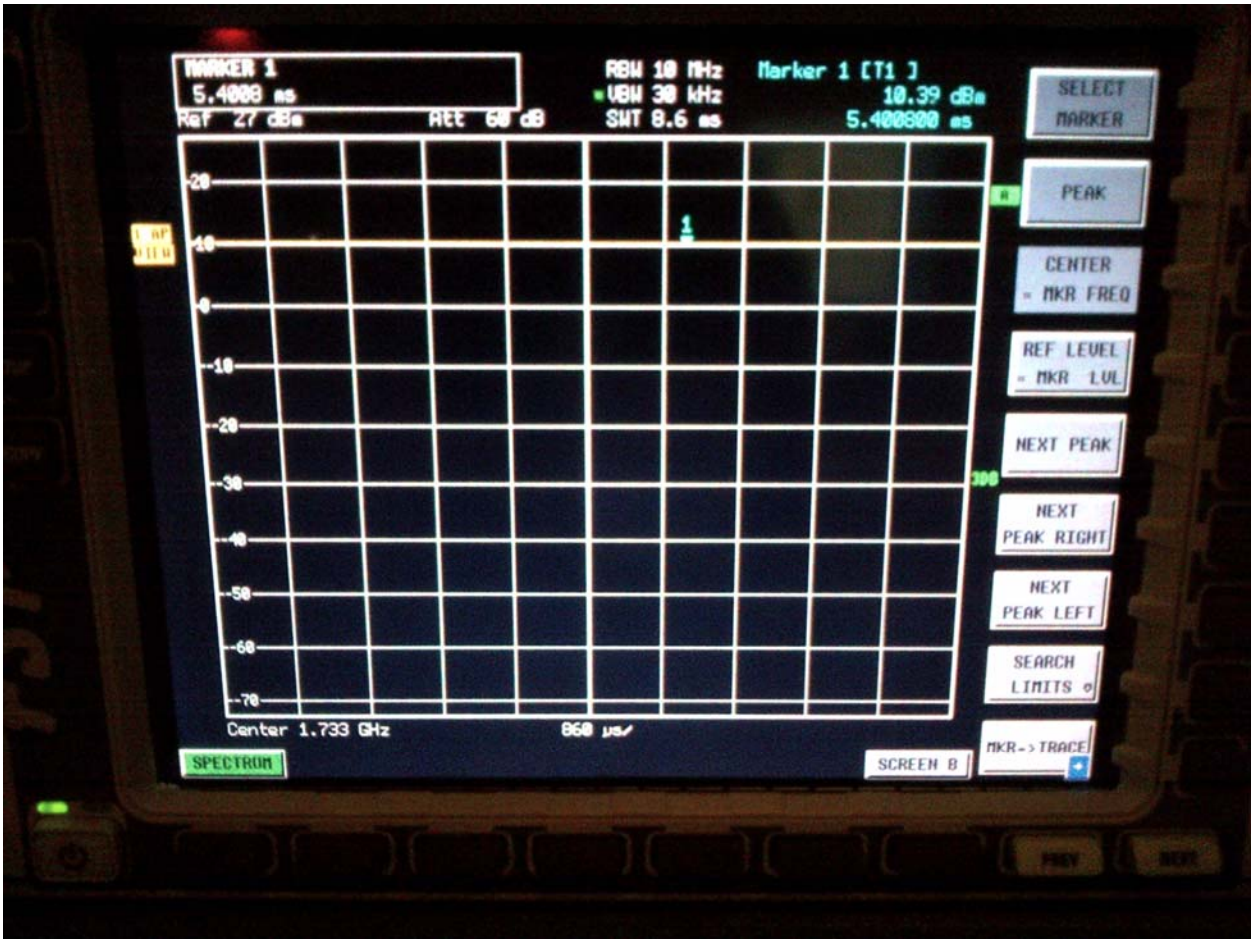
CW 835 MHz



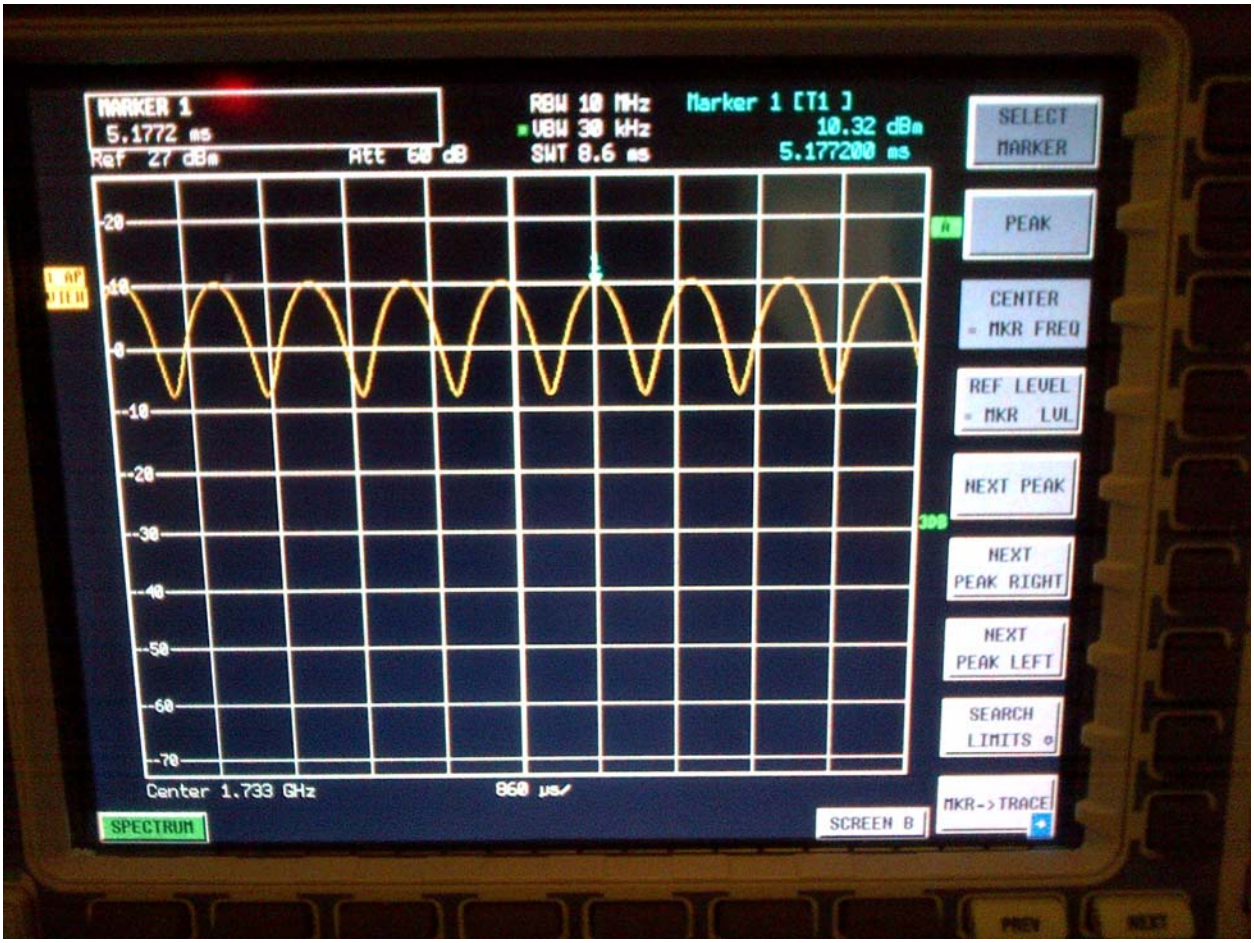
AM 80% 835 MHz



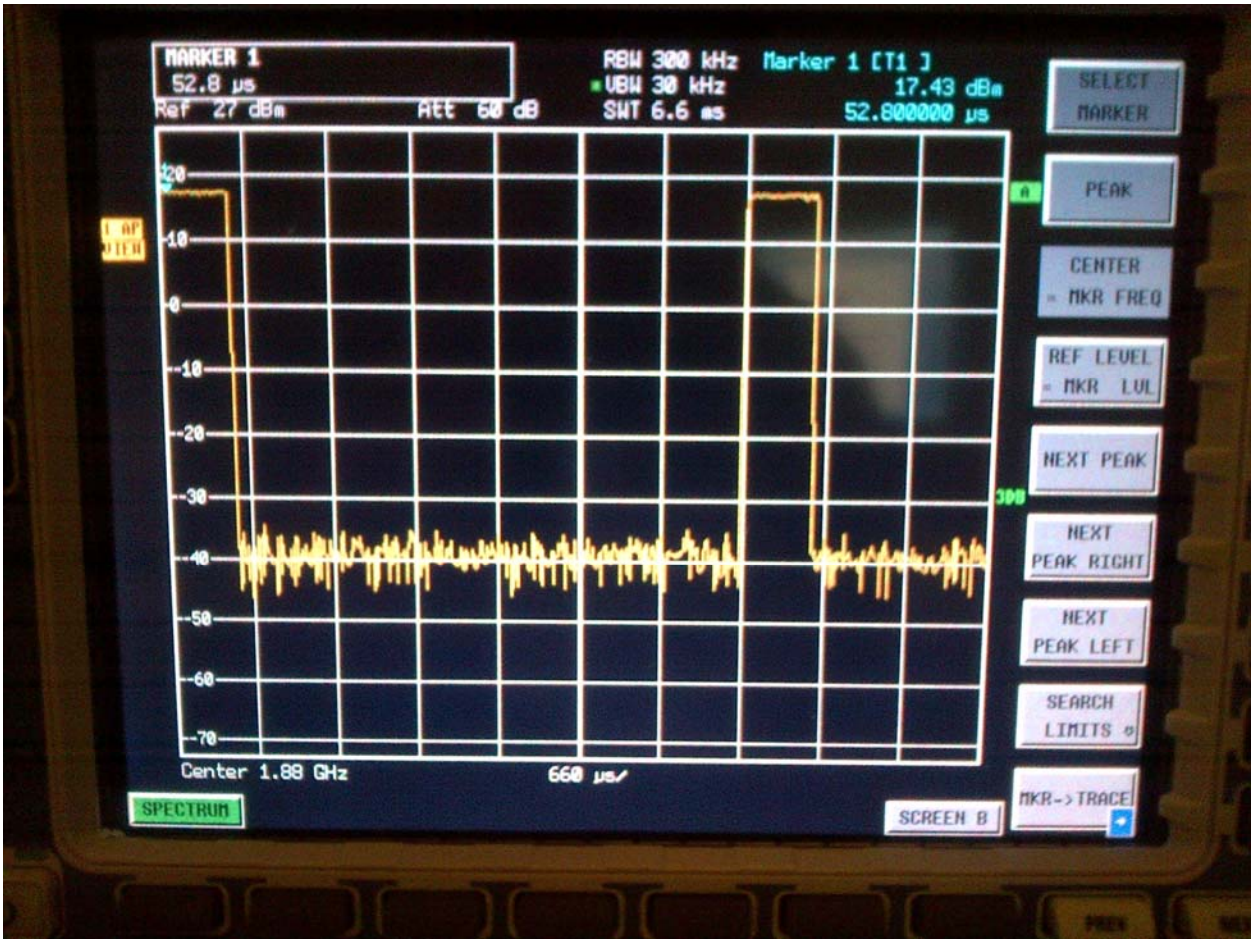
UMTS 1733 MHz



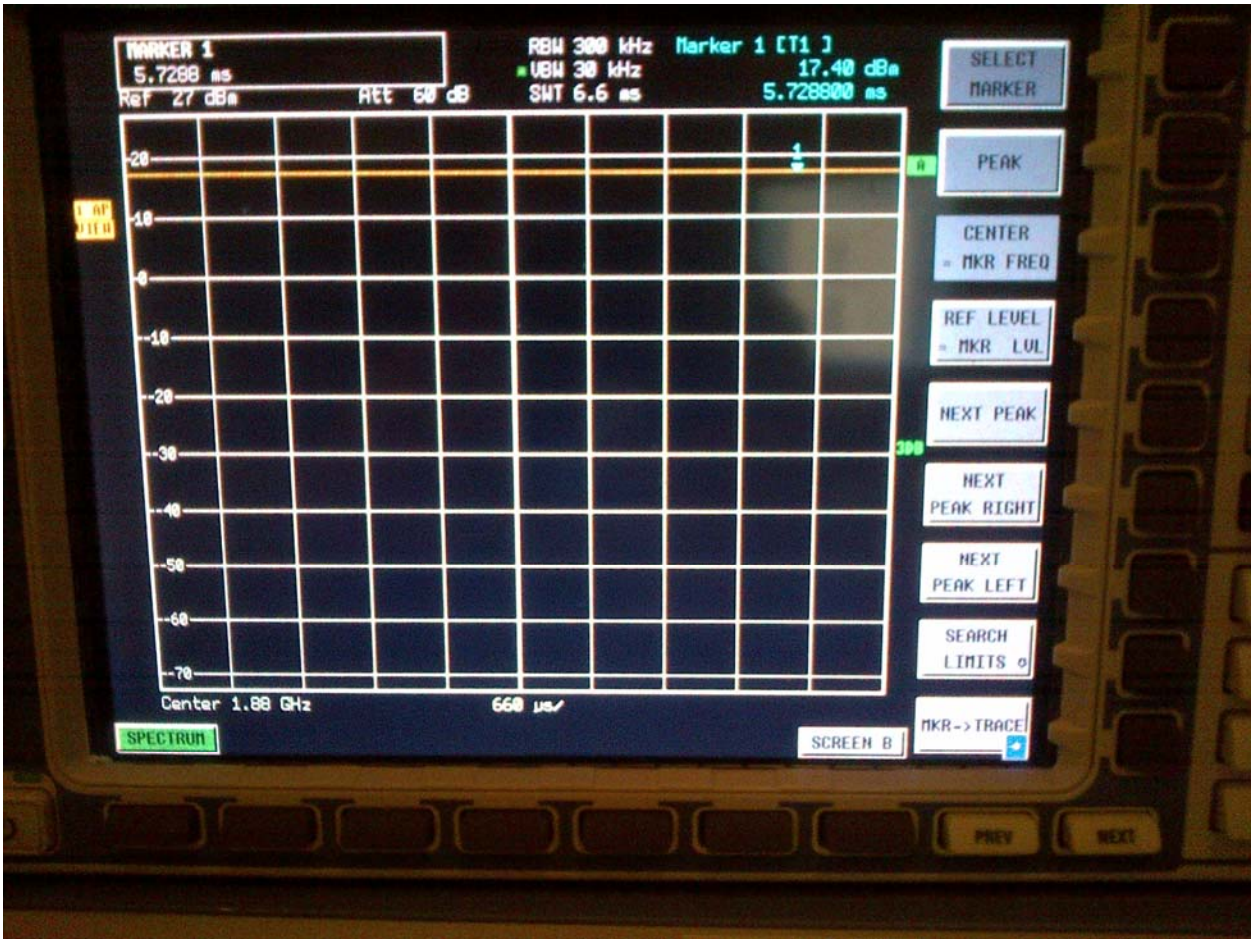
CW 1733 MHz



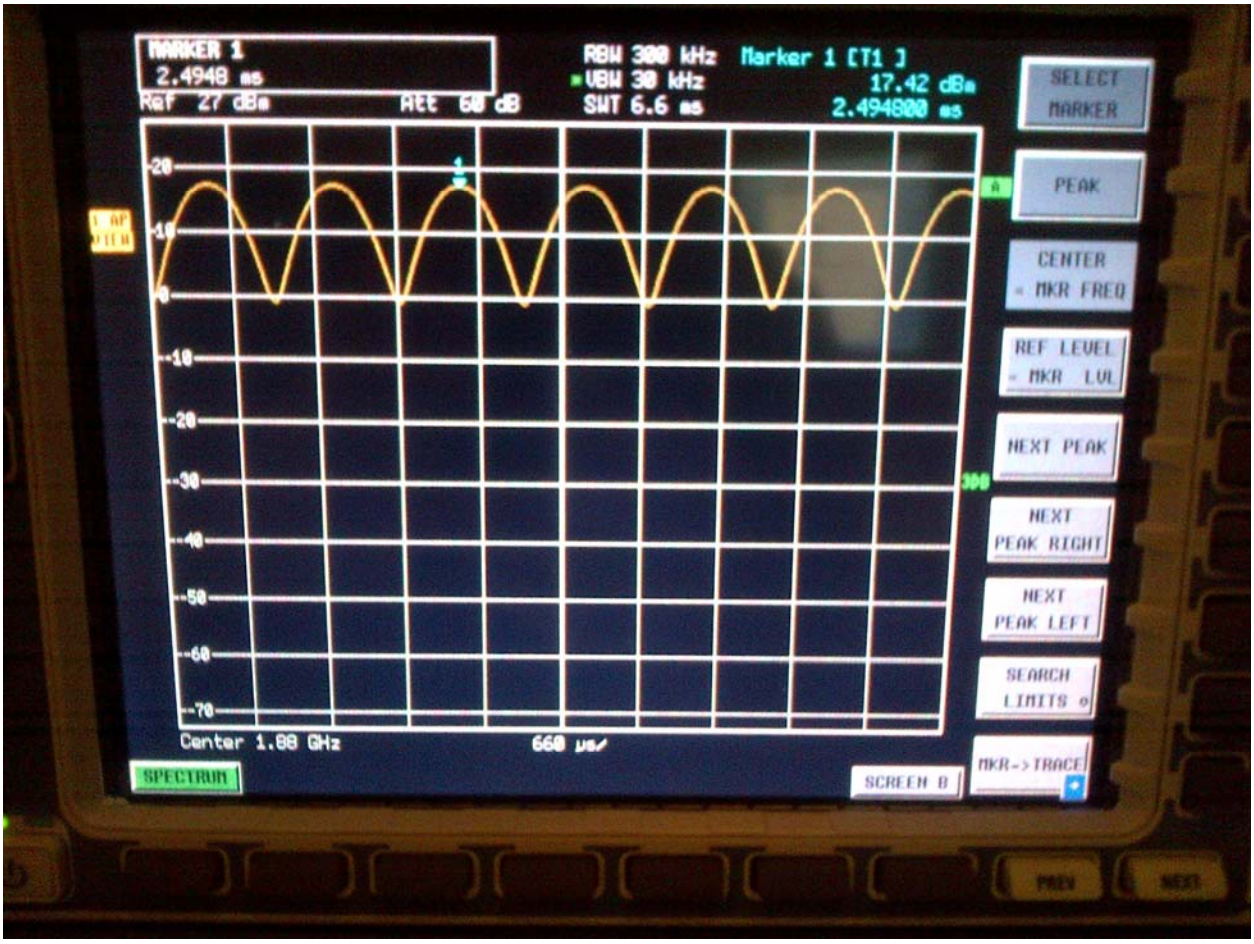
AM80% 1733 MHz



GSM 1880 MHz

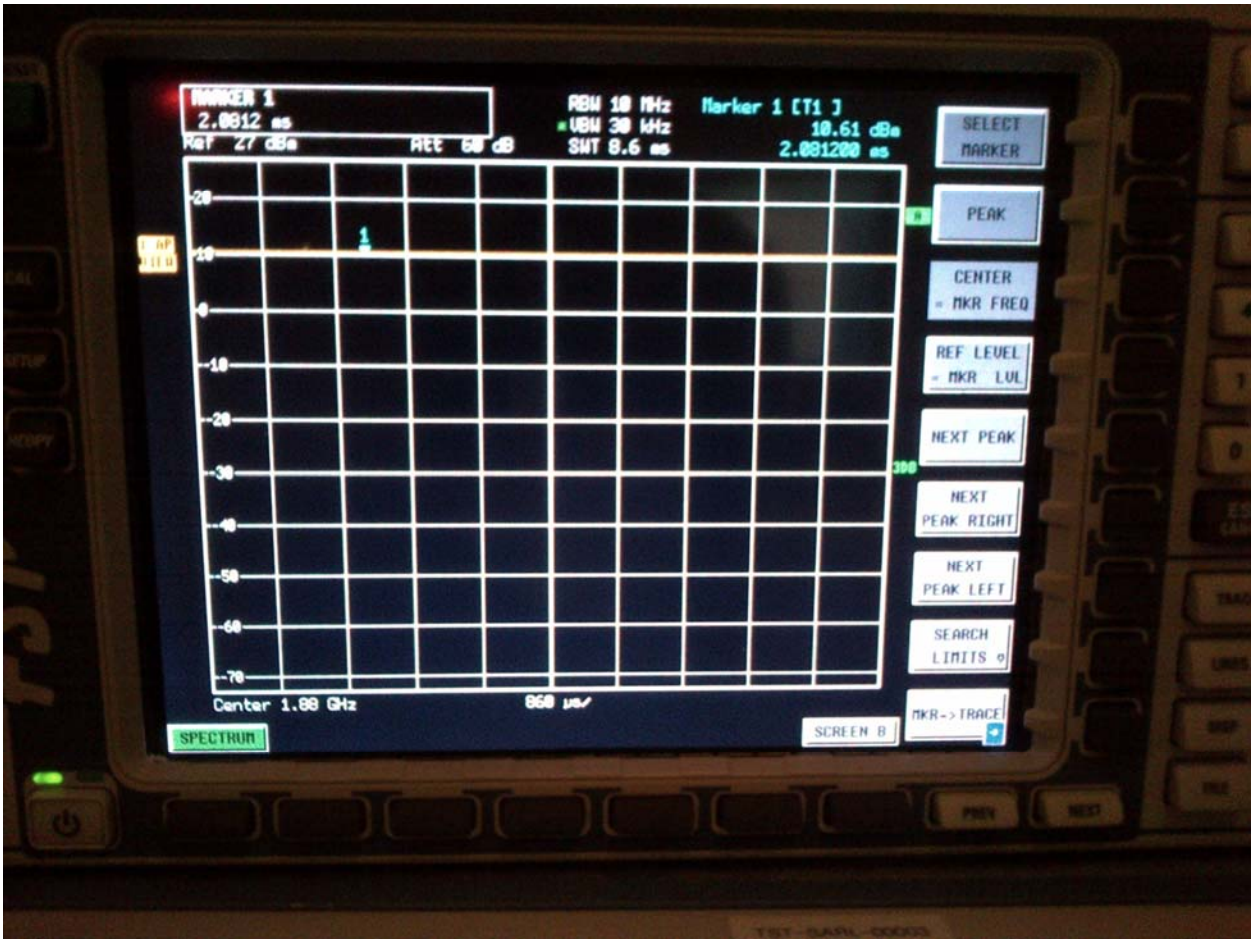


CW 1880 MHz

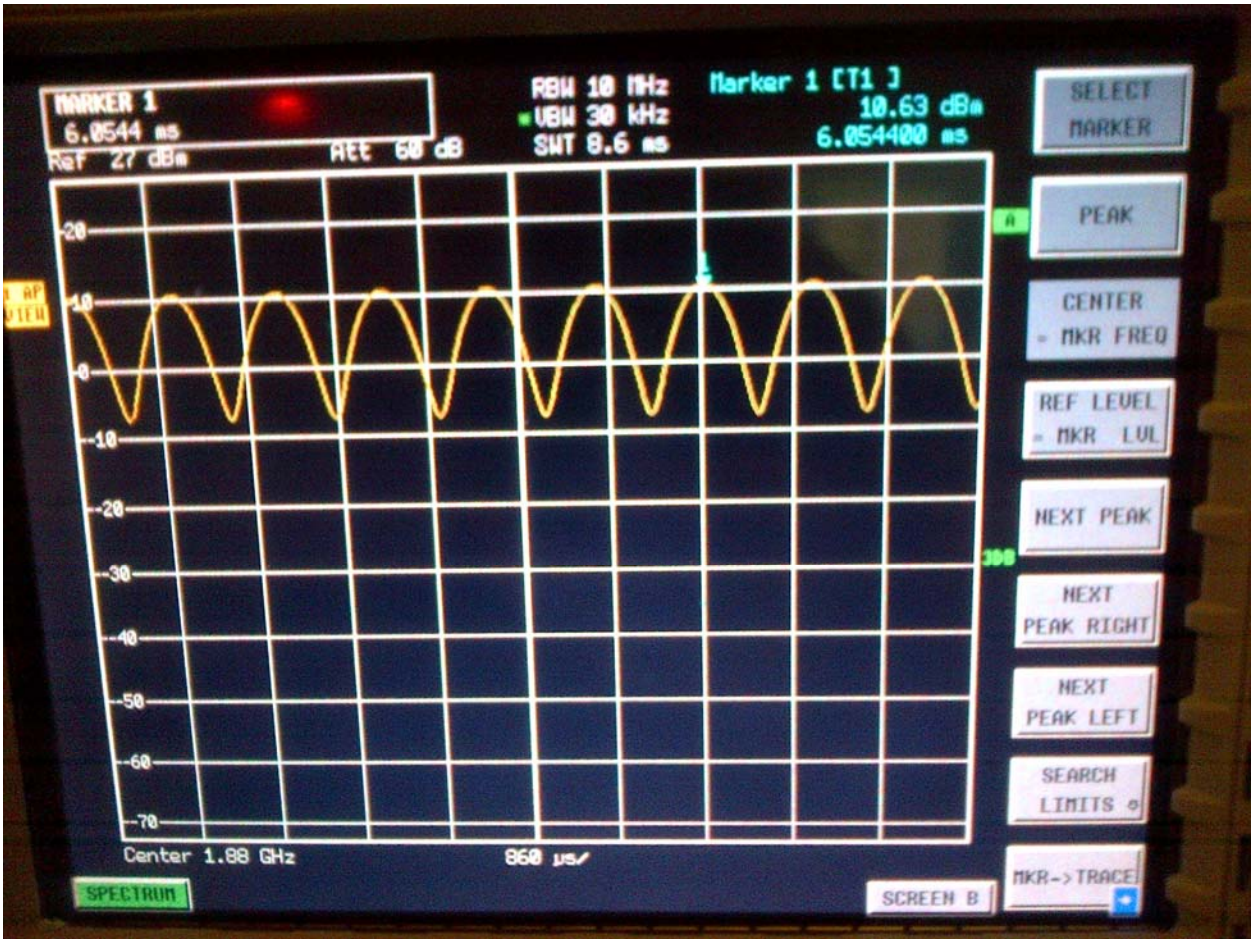


AM 80 % 1880 MHz

UMTS 1880 MHz



CW 1880 MHz



AM 80 % 1880 MHz

A.2 Dipole validation and probe modulation factor plots

Date/Time: 9/28/2012 1:33:02 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_validation_835 MHz_09_28_12

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1011

Communication System: CW; Frequency: 835 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/9/2012
- Sensor-Surface: (Fix Surface), z = 4.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

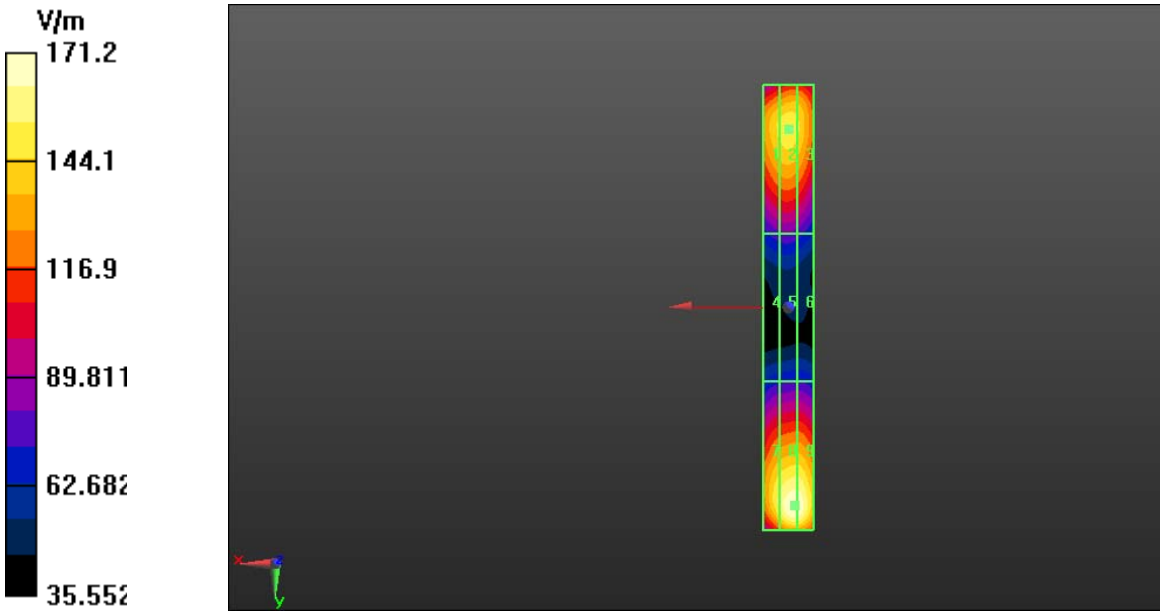
Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 104.4 V/m; Power Drift = 0.03 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 171.2 V/m
Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 **M4** **146.8 V/m**	Grid 2 **M4** **150.4 V/m**	Grid 3 **M4** **146.7 V/m**
Grid 4 **M4** **79.31 V/m**	Grid 5 **M4** **81.15 V/m**	Grid 6 **M4** **77.83 V/m**
Grid 7 **M4**	Grid 8 **M4**	Grid 9 **M4**

157.1 V/m	**171.2 V/m**	**170.7 V/m**

Cursor:
Total = 171.2 V/m
E Category: M4
Location: -2.5, 80, 4.7 mm



Date/Time: 6/28/2012 1:26:32 AM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_validation_835 MHz_06_28_12

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1011

Communication System: CW; Frequency: 835 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

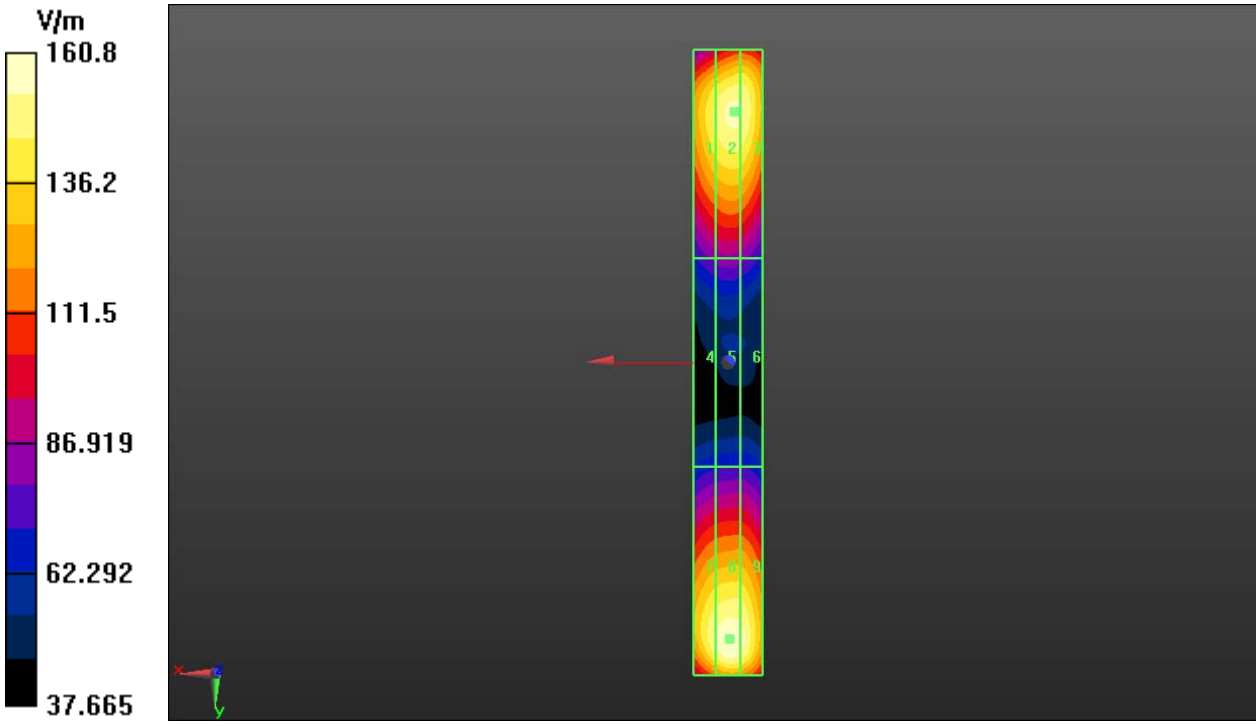
- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/9/2012
- Sensor-Surface: (Fix Surface), z = 4.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 102.0 V/m; Power Drift = -0.01 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 160.8 V/m
Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 **M4** **147.1 V/m**	Grid 2 **M4** **154.8 V/m**	Grid 3 **M4** **154.0 V/m**
Grid 4 **M4** **81.97 V/m**	Grid 5 **M4** **84.87 V/m**	Grid 6 **M4** **82.87 V/m**
Grid 7 **M4** **153.8 V/m**	Grid 8 **M4** **160.8 V/m**	Grid 9 **M4** **157.7 V/m**

Cursor:
Total = 160.8 V/m
E Category: M4
Location: -0.5, 79.5, 4.7 mm



Date/Time: 1/31/2012 2:20:06 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_PMF_GSM835 MHz_01_31_12

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1011

Communication System: GSM 835_PMF, Communication System: CW, Communication System: AM 80%; Frequency: 835 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/9/2012
- Sensor-Surface: (Fix Surface), z = 4.7
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Dipole E-Field measurement/E Scan - GSM 835_PMF/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 34.20 V/m; Power Drift = 0.04 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 51.25 V/m
Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 **M4** **46.59 V/m**	Grid 2 **M4** **49.14 V/m**	Grid 3 **M4** **49.14 V/m**
Grid 4 **M4** **27.62 V/m**	Grid 5 **M4** **28.27 V/m**	Grid 6 **M4** **28.03 V/m**
Grid 7 **M4** **49.67 V/m**	Grid 8 **M4** **51.25 V/m**	Grid 9 **M4** **50.67 V/m**

Cursor:
Total = 51.249 V/m
E Category: M4
Location: -0.5, 79.5, 4.7 mm

Dipole E-Field measurement/E Scan - CW 835_PMF/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 105.5 V/m; Power Drift = 0.04 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 160.5 V/m
Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 **M4** **144.7 V/m**	Grid 2 **M4** **152.0 V/m**	Grid 3 **M4** **151.2 V/m**
Grid 4 **M4** **81.25 V/m**	Grid 5 **M4** **83.39 V/m**	Grid 6 **M4** **81.16 V/m**
Grid 7 **M4** **156.0 V/m**	Grid 8 **M4** **160.5 V/m**	Grid 9 **M4** **155.5 V/m**

Cursor:
Total = 160.5 V/m
E Category: M4
Location: 0, 79, 4.7 mm

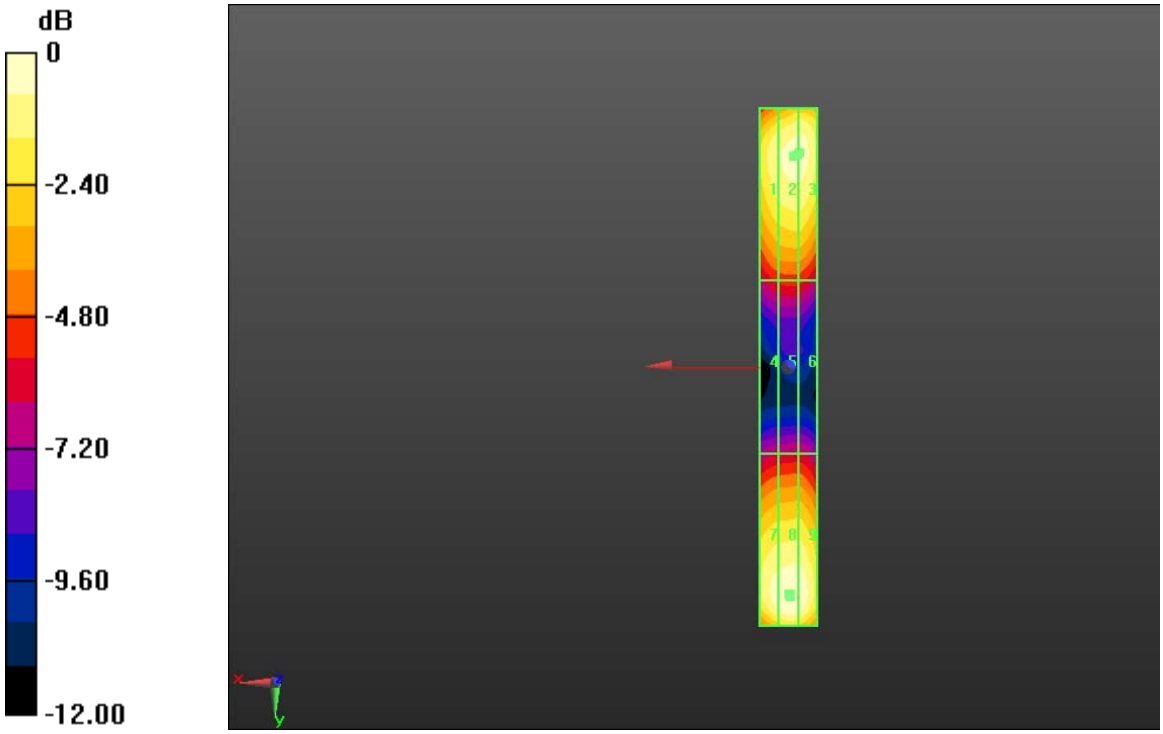
Dipole E-Field measurement/E Scan - AM80%_ 835_PMF/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 67.40 V/m; Power Drift = -0.05 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 101.2 V/m
Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 **M4** **90.33 V/m**	Grid 2 **M4** **95.24 V/m**	Grid 3 **M4** **95.16 V/m**
Grid 4 **M4** **51.51 V/m**	Grid 5 **M4** **53.10 V/m**	Grid 6 **M4** **51.99 V/m**
Grid 7 **M4** **97.22 V/m**	Grid 8 **M4** **101.2 V/m**	Grid 9 **M4** **98.82 V/m**

Cursor:
Total = 101.2 V/m
E Category: M4
Location: -0.5, 79, 4.7 mm



0 dB = 51.250V/m = 34.19 dB V/m

Date/Time: 2/17/2012 12:24:15 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_PMF_UMTS835 MHz_02_17_12

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1011

Communication System: WCDMA FDD V, Communication System: CW, Communication System: AM 80%; Frequency: 835 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/9/2012
- Sensor-Surface: (Fix Surface), z = 4.7
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Dipole E-Field measurement/E Scan - UMTS 835_PMF/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 41.08 V/m; Power Drift = 0.03 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 64.41 V/m
Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 **M4** **53.11 V/m**	Grid 2 **M4** **55.59 V/m**	Grid 3 **M4** **55.40 V/m**
Grid 4 **M4** **29.72 V/m**	Grid 5 **M4** **30.66 V/m**	Grid 6 **M4** **29.79 V/m**
Grid 7 **M4** **61.55 V/m**	Grid 8 **M4** **64.41 V/m**	Grid 9 **M4** **63.22 V/m**

Cursor:
Total = 64.412 V/m
E Category: M4
Location: -0.5, 79, 4.7 mm

Dipole E-Field measurement/E Scan - CW 835_PMF/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 43.11 V/m; Power Drift = -0.14 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 68.64 V/m
Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 **M4** **58.55 V/m**	Grid 2 **M4** **59.20 V/m**	Grid 3 **M4** **57.13 V/m**
Grid 4 **M4** **32.35 V/m**	Grid 5 **M4** **32.63 V/m**	Grid 6 **M4** **31.24 V/m**
Grid 7 **M4** **61.85 V/m**	Grid 8 **M4** **68.64 V/m**	Grid 9 **M4** **68.56 V/m**

Cursor:
Total = 68.635 V/m
E Category: M4
Location: -3, 79.5, 4.7 mm

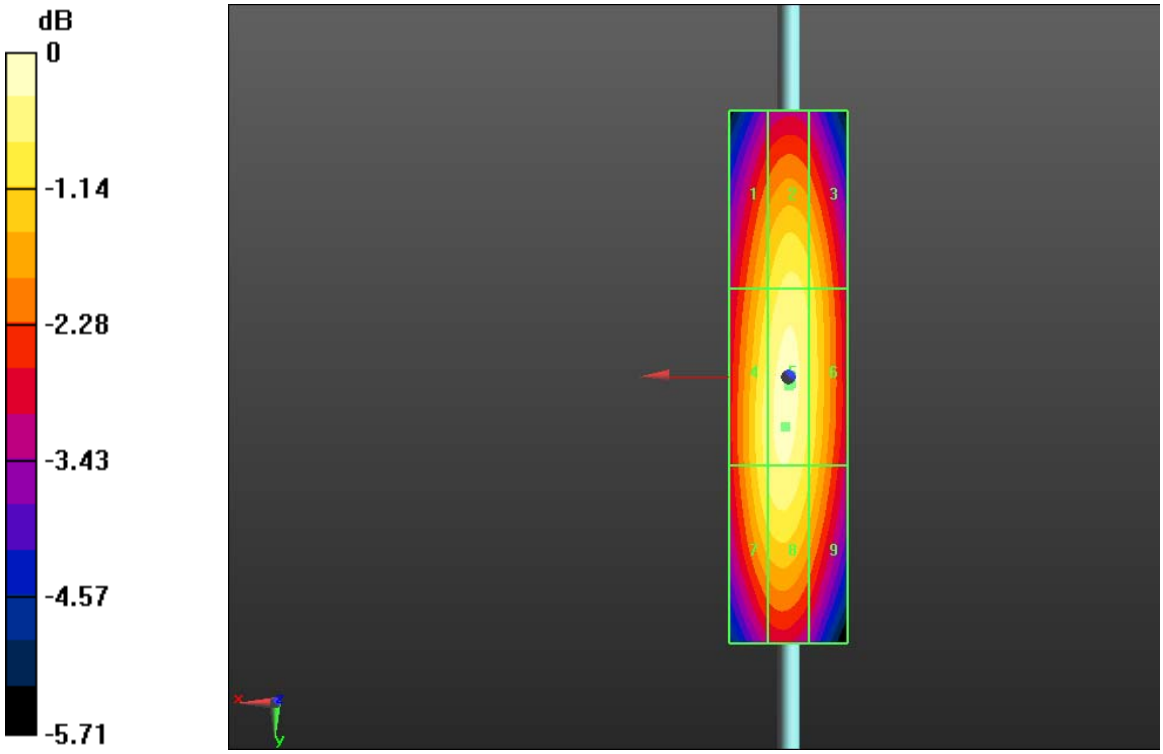
Dipole E-Field measurement/E Scan - AM80%_ 835_PMF/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 28.41 V/m; Power Drift = 0.09 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 45.21 V/m
Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 **M4** **38.28 V/m**	Grid 2 **M4** **38.73 V/m**	Grid 3 **M4** **37.25 V/m**
Grid 4 **M4** **21.72 V/m**	Grid 5 **M4** **21.89 V/m**	Grid 6 **M4** **20.80 V/m**
Grid 7 **M4** **40.90 V/m**	Grid 8 **M4** **45.21 V/m**	Grid 9 **M4** **45.16 V/m**

Cursor:
Total = 45.209 V/m
E Category: M4
Location: -3, 79.5, 4.7 mm



0 dB = 0.180A/m = -14.89 dB A/m

Date/Time: 9/28/2012 2:29:40 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_validation_1880 MHz_09_28_12

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1008

Communication System: CW; Frequency: 1880 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/9/2012
- Sensor-Surface: (Fix Surface), z = 4.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

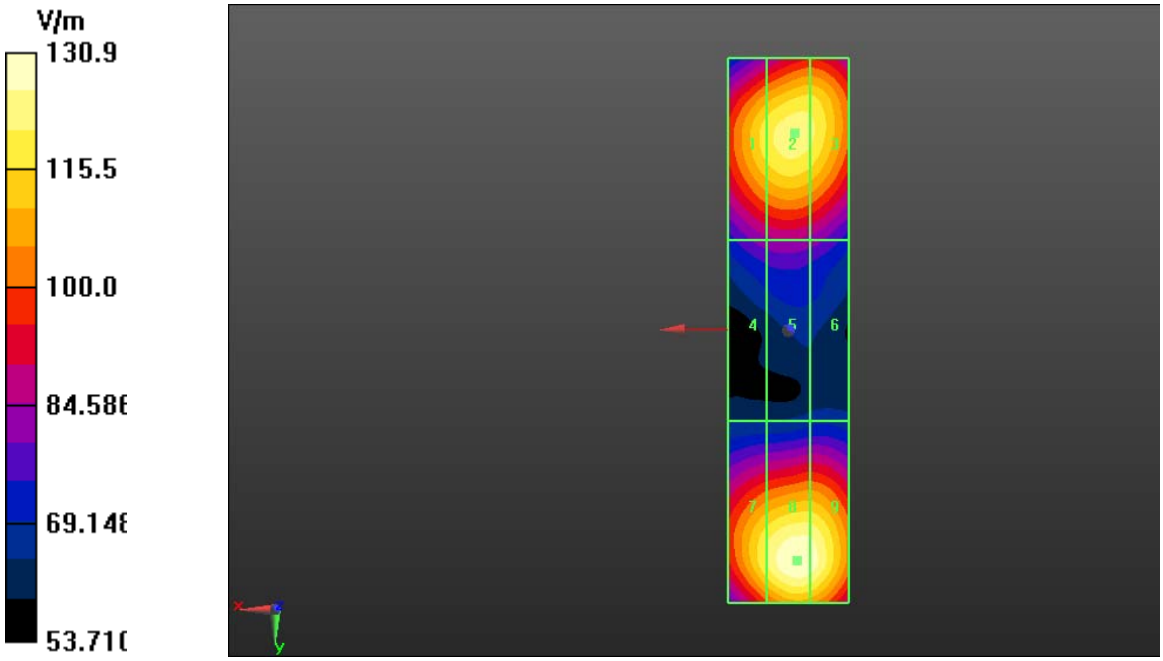
Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 144.8 V/m; Power Drift = 0.04 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 130.9 V/m
Near-field category: M2 (AWF 0 dB)

PMF scaled E-field

Grid 1 **M2** **118.8 V/m**	Grid 2 **M2** **123.6 V/m**	Grid 3 **M2** **122.2 V/m**
Grid 4 **M3** **83.54 V/m**	Grid 5 **M3** **85.60 V/m**	Grid 6 **M3** **83.07 V/m**
Grid 7 **M2**	Grid 8 **M2**	Grid 9 **M2**

121.7 V/m	**130.9 V/m**	**129.4 V/m**

Cursor:
Total = 130.9 V/m
E Category: M2
Location: -1.5, 38, 4.7 mm



Date/Time: 6/28/2012 1:54:39 AM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_validation_1880 MHz_06_28_12

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1008

Communication System: CW; Frequency: 1880 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

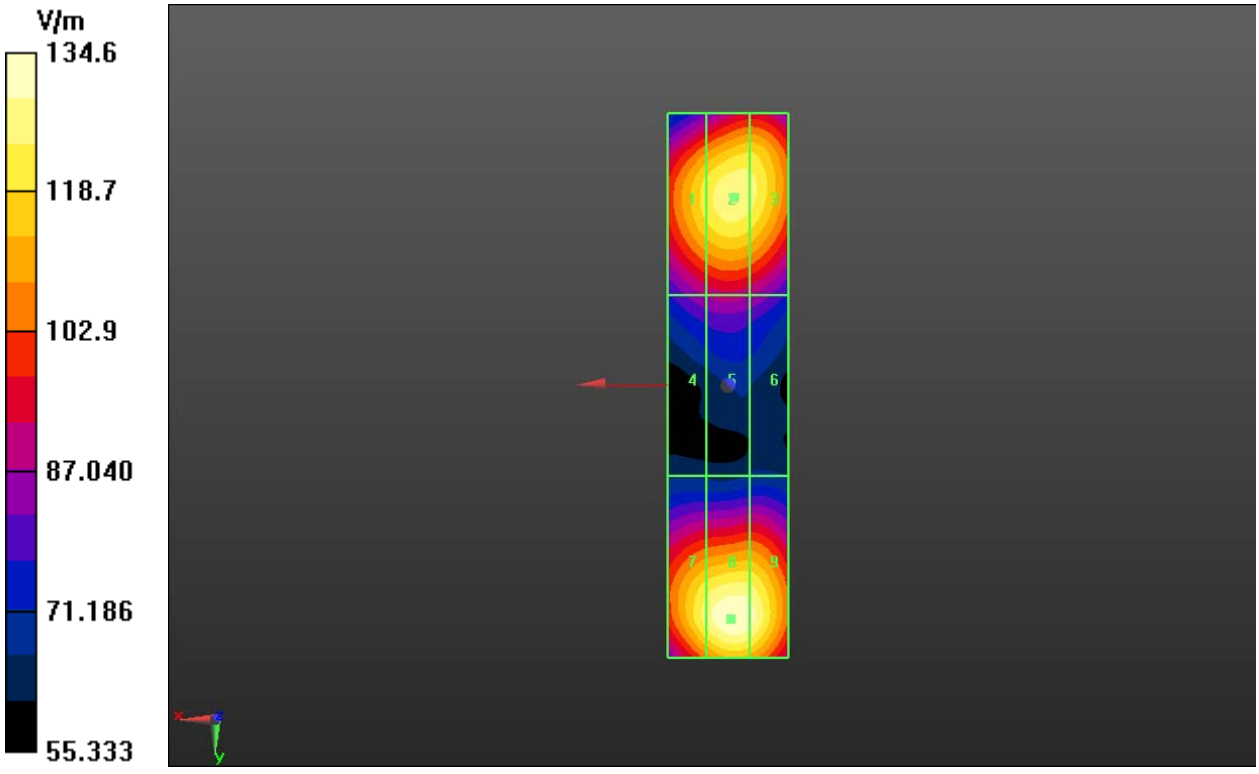
- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/9/2012
- Sensor-Surface: (Fix Surface), z = 4.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

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
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 152.6 V/m; Power Drift = -0.04 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 134.6 V/m
Near-field category: M2 (AWF 0 dB)

PMF scaled E-field

Grid 1 **M2** **122.0 V/m**	Grid 2 **M2** **127.9 V/m**	Grid 3 **M2** **126.5 V/m**
Grid 4 **M3** **88.18 V/m**	Grid 5 **M3** **91.05 V/m**	Grid 6 **M3** **88.28 V/m**
Grid 7 **M2** **127.2 V/m**	Grid 8 **M2** **134.6 V/m**	Grid 9 **M2** **132.1 V/m**

Cursor:
Total = 134.6 V/m
E Category: M2
Location: -0.5, 38.5, 4.7 mm



Date/Time: 2/17/2012 3:04:25 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_PMF_UMTS1733 MHz_02_17_12

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1008

Communication System: WCDMA FDD IV, Communication System: CW, Communication System: AM 80%; Frequency: 1732.6 MHz, Frequency: 1733 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/9/2012
- Sensor-Surface: (Fix Surface), z = 4.7
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Dipole E-Field measurement/E Scan - UMTS 1733_PMF/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 50.62 V/m; Power Drift = -0.07 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 45.31 V/m
Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 **M4** **38.99 V/m**	Grid 2 **M4** **40.35 V/m**	Grid 3 **M4** **39.86 V/m**
Grid 4 **M4** **28.58 V/m**	Grid 5 **M4** **29.21 V/m**	Grid 6 **M4** **28.30 V/m**
Grid 7 **M4** **42.57 V/m**	Grid 8 **M4** **45.31 V/m**	Grid 9 **M4** **44.53 V/m**

Cursor:
Total = 45.306 V/m
E Category: M4
Location: -1, 38, 4.7 mm

Dipole E-Field measurement/E Scan- CW 1733_PMF/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 50.63 V/m; Power Drift = 0.07 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 46.45 V/m
Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 **M4** **40.60 V/m**	Grid 2 **M4** **41.81 V/m**	Grid 3 **M4** **41.04 V/m**
Grid 4 **M4** **29.57 V/m**	Grid 5 **M4** **30.18 V/m**	Grid 6 **M4** **29.29 V/m**
Grid 7 **M4** **44.02 V/m**	Grid 8 **M4** **46.45 V/m**	Grid 9 **M4** **45.54 V/m**

Cursor:
Total = 46.446 V/m
E Category: M4
Location: -1, 38, 4.7 mm

Dipole E-Field measurement/E Scan - AM80%_ 1733_PMF/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

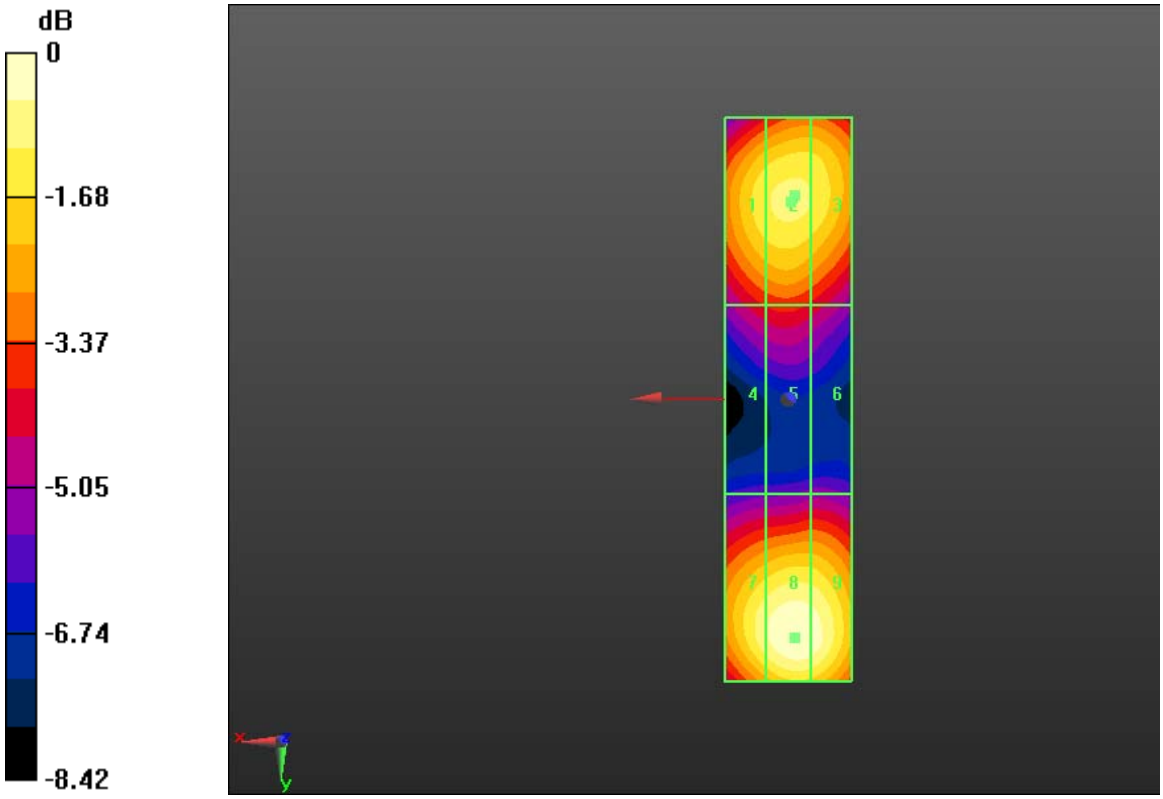
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 32.26 V/m; Power Drift = 0.12 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 29.45 V/m
Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 **M4** **25.68 V/m**	Grid 2 **M4** **26.42 V/m**	Grid 3 **M4** **25.96 V/m**
Grid 4 **M4**	Grid 5 **M4**	Grid 6 **M4**

18.91 V/m	**19.39 V/m**	**18.52 V/m**
Grid 7 **M4** **27.45 V/m**	Grid 8 **M4** **29.45 V/m**	Grid 9 **M4** **28.94 V/m**

Cursor:
Total = 29.451 V/m
E Category: M4
Location: -1, 38, 4.7 mm



0 dB = 45.310V/m = 33.12 dB V/m

Date/Time: 1/31/2012 1:55:07 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_PMF_GSM1880 MHz_01_31_12

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1008

Communication System: GSM 1880, Communication System: CW, Communication System: AM 80%; Frequency: 1880 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/9/2012
- Sensor-Surface: (Fix Surface), z = 4.7
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Dipole E-Field measurement/E Scan - GSM 1880_PMF/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 34.29 V/m; Power Drift = 0.05 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 30.95 V/m
Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 **M4** **27.89 V/m**	Grid 2 **M4** **29.29 V/m**	Grid 3 **M4** **29.22 V/m**
Grid 4 **M4** **19.87 V/m**	Grid 5 **M4** **20.63 V/m**	Grid 6 **M4** **20.20 V/m**
Grid 7 **M4** **29.49 V/m**	Grid 8 **M4** **30.95 V/m**	Grid 9 **M4** **30.55 V/m**

Cursor:
Total = 30.947 V/m
E Category: M4
Location: -1, 38, 4.7 mm

Dipole E-Field measurement/E Scan- CW 1800_PMF/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 102.4 V/m; Power Drift = -0.11 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 90.42 V/m
Near-field category: M3 (AWF 0 dB)

PMF scaled E-field

Grid 1 **M3** **82.60 V/m**	Grid 2 **M3** **86.68 V/m**	Grid 3 **M3** **86.04 V/m**
Grid 4 **M4** **58.55 V/m**	Grid 5 **M4** **60.47 V/m**	Grid 6 **M4** **58.89 V/m**
Grid 7 **M3** **85.63 V/m**	Grid 8 **M3** **90.42 V/m**	Grid 9 **M3** **88.30 V/m**

Cursor:
Total = 90.419 V/m
E Category: M3
Location: -0.5, 38, 4.7 mm

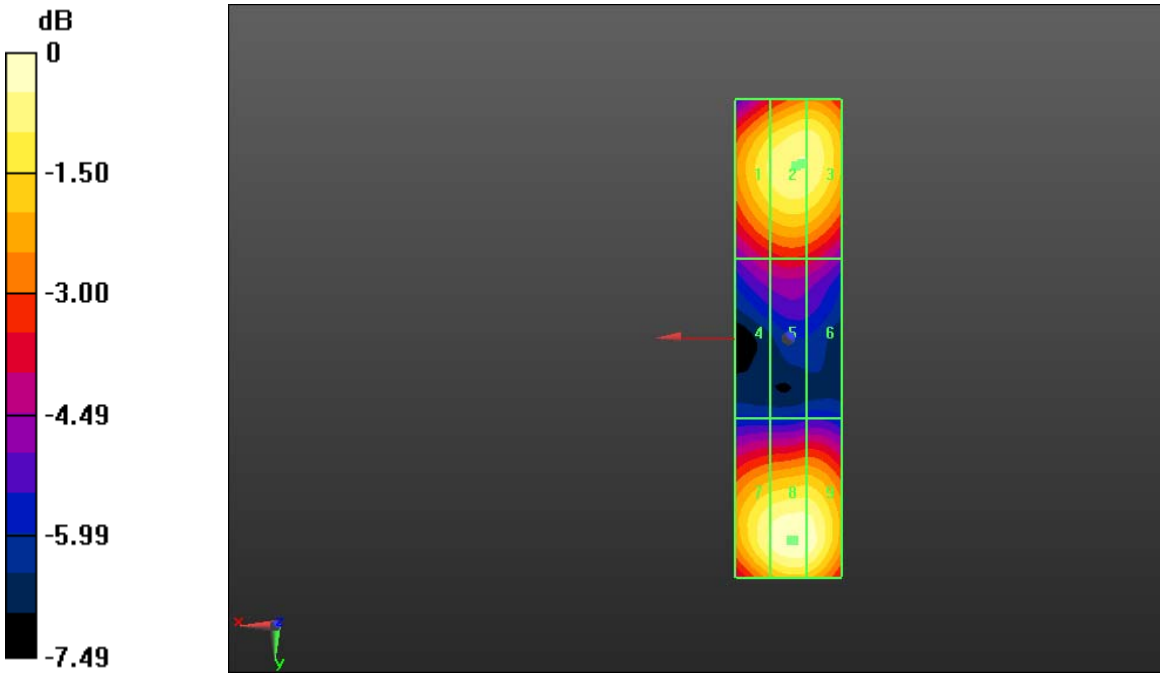
Dipole E-Field measurement/E Scan - AM80%_ 1880_PMF/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 64.56 V/m; Power Drift = 0.07 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 58.24 V/m
Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 **M4** **52.36 V/m**	Grid 2 **M4** **55.29 V/m**	Grid 3 **M4** **55.10 V/m**
Grid 4 **M4** **37.30 V/m**	Grid 5 **M4** **38.47 V/m**	Grid 6 **M4** **37.60 V/m**
Grid 7 **M4** **55.71 V/m**	Grid 8 **M4** **58.24 V/m**	Grid 9 **M4** **56.94 V/m**

Cursor:
Total = 58.238 V/m
E Category: M4
Location: -0.5, 38, 4.7 mm



0 dB = 30.950V/m = 29.81 dB V/m

Date/Time: 2/17/2012 2:20:23 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_PMF_UMTS1880 MHz_02_17_12

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1008

Communication System: WCDMA FDD II, Communication System: CW, Communication System: AM 80%; Frequency: 1880 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/9/2012
- Sensor-Surface: (Fix Surface), z = 4.7
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Dipole E-Field measurement/E Scan - UMTS 1880_PMF/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 47.02 V/m; Power Drift = 0.01 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 42.43 V/m
Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 **M4** **37.98 V/m**	Grid 2 **M4** **39.42 V/m**	Grid 3 **M4** **39.04 V/m**
Grid 4 **M4** **26.86 V/m**	Grid 5 **M4** **27.50 V/m**	Grid 6 **M4** **26.70 V/m**
Grid 7 **M4** **39.63 V/m**	Grid 8 **M4** **42.43 V/m**	Grid 9 **M4** **41.87 V/m**

Cursor:
Total = 42.427 V/m
E Category: M4
Location: -1, 38, 4.7 mm

Dipole E-Field measurement/E Scan- CW 1800_PMF/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 47.33 V/m; Power Drift = -0.05 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 42.41 V/m
Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 **M4** **38.23 V/m**	Grid 2 **M4** **39.51 V/m**	Grid 3 **M4** **39.41 V/m**
Grid 4 **M4** **26.94 V/m**	Grid 5 **M4** **27.41 V/m**	Grid 6 **M4** **26.77 V/m**
Grid 7 **M4** **40.02 V/m**	Grid 8 **M4** **42.41 V/m**	Grid 9 **M4** **41.99 V/m**

Cursor:
Total = 42.409 V/m
E Category: M4
Location: -1.5, 38, 4.7 mm

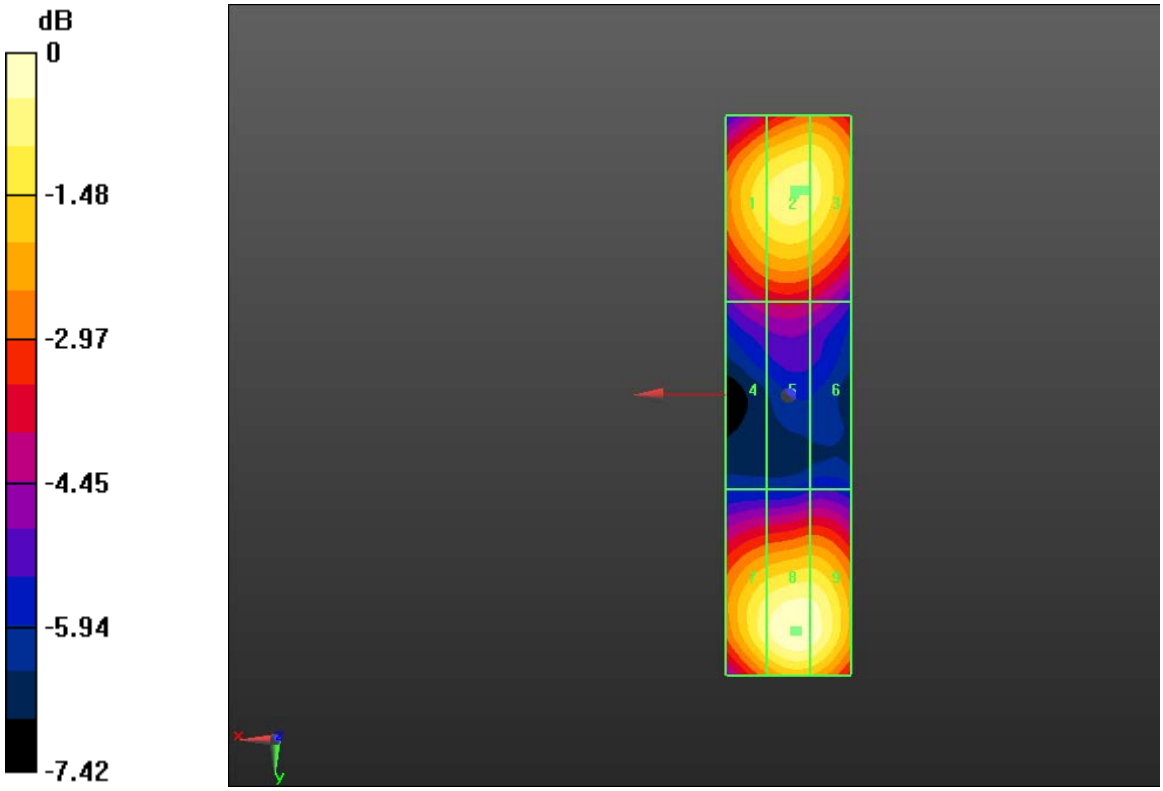
Dipole E-Field measurement/E Scan - AM80%_ 1880_PMF/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 30.18 V/m; Power Drift = 0.06 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 27.40 V/m
Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 **M4** **24.40 V/m**	Grid 2 **M4** **25.26 V/m**	Grid 3 **M4** **24.95 V/m**
Grid 4 **M4** **17.20 V/m**	Grid 5 **M4** **17.65 V/m**	Grid 6 **M4** **17.12 V/m**
Grid 7 **M4** **25.54 V/m**	Grid 8 **M4** **27.40 V/m**	Grid 9 **M4** **27.02 V/m**

Cursor:
Total = 27.402 V/m
E Category: M4
Location: -1, 38, 4.7 mm



0 dB = 42.430V/m = 32.55 dB V/m

Date/Time: 9/28/2012 3:00:56 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_validation_835 MHz_09_28_12

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1011

Communication System: CW; Frequency: 835 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/8/2011
- Sensor-Surface: (Fix Surface), z = 4.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

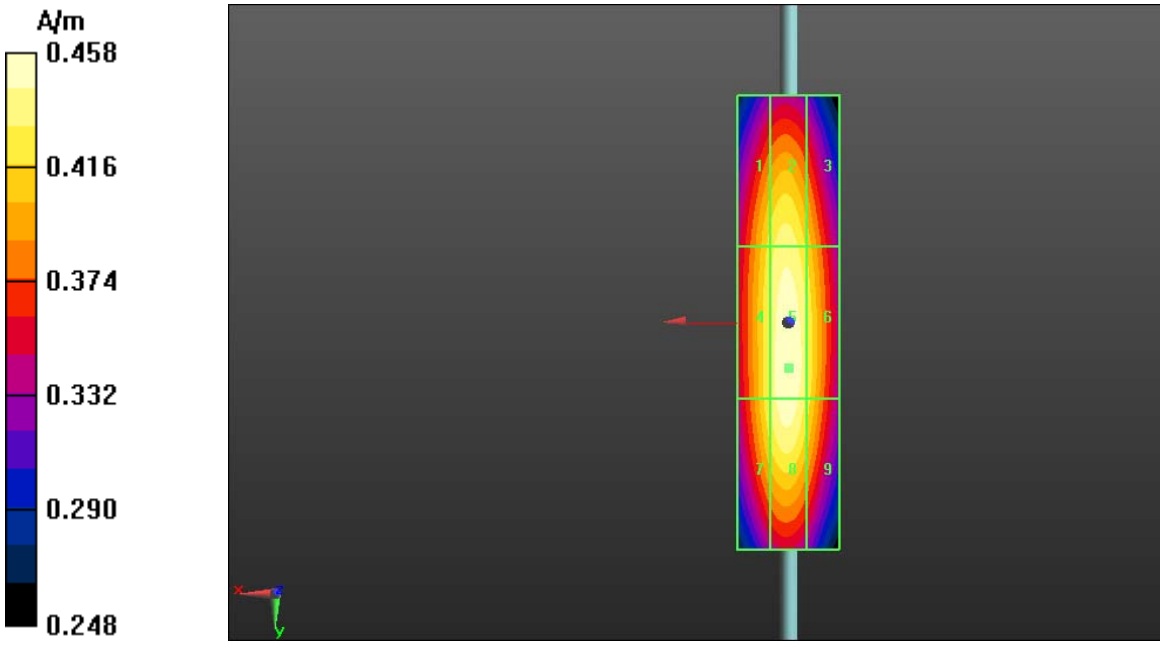
Dipole H-Field measurement with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.49 V/m; Power Drift = 0.10 dB
PMR not calibrated. PMF = 1.000 is applied.
H-field emissions = 0.46 A/m
Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 **M4** **0.42 A/m**	Grid 2 **M4** **0.44 A/m**	Grid 3 **M4** **0.42 A/m**
Grid 4 **M4** **0.44 A/m**	Grid 5 **M4** **0.46 A/m**	Grid 6 **M4** **0.43 A/m**
Grid 7 **M4**	Grid 8 **M4**	Grid 9 **M4**

0.43 A/m	**0.45 A/m**	**0.43 A/m**

Cursor:
Total = 0.458 A/m
H Category: M4
Location: 0, 9, 4.7 mm



Date/Time: 6/28/2012 2:59:51 AM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_validation_835 MHz_06_28_12

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1011

Communication System: CW; Frequency: 835 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/8/2011
- Sensor-Surface: (Fix Surface), z = 4.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

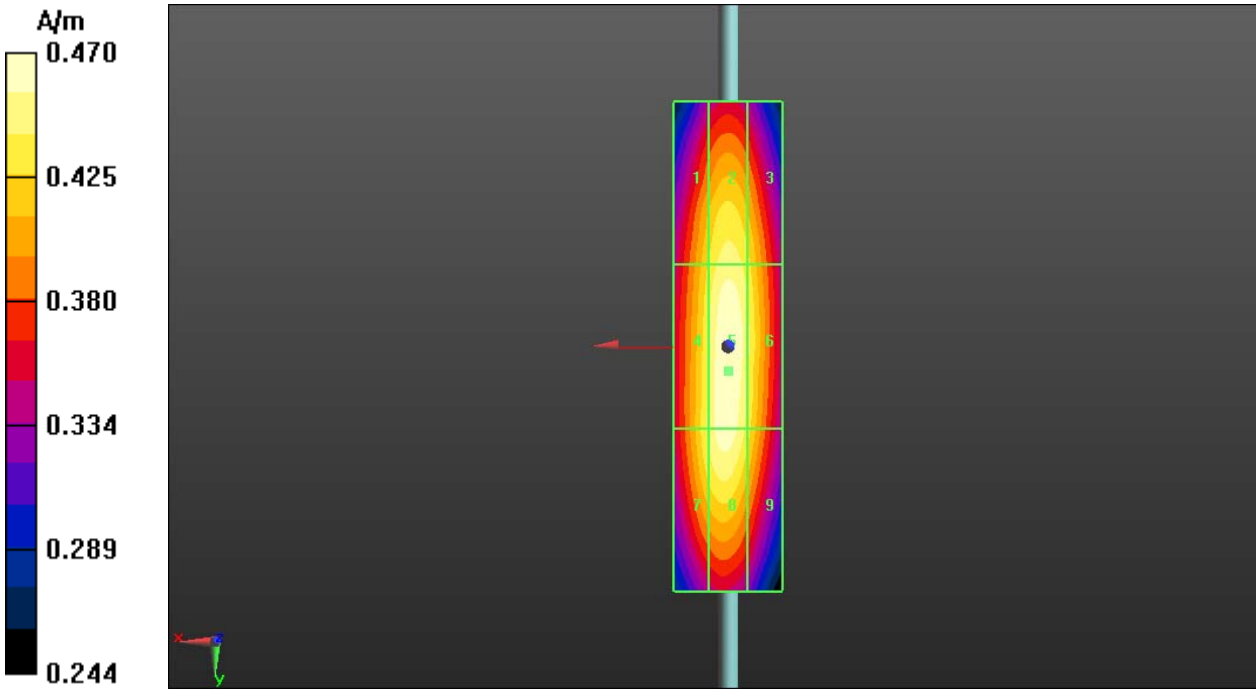
Dipole H-Field measurement with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.50 V/m; Power Drift = 0.10 dB
PMR not calibrated. PMF = 1.000 is applied.
H-field emissions = 0.47 A/m
Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 **M4** **0.43 A/m**	Grid 2 **M4** **0.45 A/m**	Grid 3 **M4** **0.43 A/m**
Grid 4 **M4** **0.45 A/m**	Grid 5 **M4** **0.47 A/m**	Grid 6 **M4** **0.45 A/m**
Grid 7 **M4**	Grid 8 **M4**	Grid 9 **M4**

0.44 A/m	**0.46 A/m**	**0.43 A/m**

Cursor:
Total = 0.470 A/m
H Category: M4
Location: 0, 4.5, 4.7 mm



Date/Time: 1/31/2012 3:12:15 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_PMF_GSM835 MHz_01_31_12

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1011

Communication System: GSM 835_PMF, Communication System: CW, Communication System: AM 80%; Frequency: 835 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/8/2011
- Sensor-Surface: (Fix Surface), z = 4.7
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Dipole H-Field measurement with H3DV6 probe/H Scan - GSM 835_PMF/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.17 V/m; Power Drift = -0.08 dB
PMR not calibrated. PMF = 1.000 is applied.
H-field emissions = 0.16 A/m
Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 **M4** **0.15 A/m**	Grid 2 **M4** **0.15 A/m**	Grid 3 **M4** **0.15 A/m**
Grid 4 **M4** **0.15 A/m**	Grid 5 **M4** **0.16 A/m**	Grid 6 **M4** **0.15 A/m**
Grid 7 **M4** **0.15 A/m**	Grid 8 **M4** **0.16 A/m**	Grid 9 **M4** **0.15 A/m**

Cursor:
Total = 0.159 A/m
H Category: M4
Location: 0, 1, 4.7 mm

Dipole H-Field measurement with H3DV6 probe/H Scan - CW 835_PMF/Hearing Aid Compatibility Test (41x181x1):

Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.27 V/m; Power Drift = 0.03 dB
PMR not calibrated. PMF = 1.000 is applied.
H-field emissions = 0.47 A/m
Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 **M4** **0.43 A/m**	Grid 2 **M4** **0.45 A/m**	Grid 3 **M4** **0.43 A/m**
Grid 4 **M4** **0.45 A/m**	Grid 5 **M4** **0.47 A/m**	Grid 6 **M4** **0.45 A/m**
Grid 7 **M4** **0.44 A/m**	Grid 8 **M4** **0.46 A/m**	Grid 9 **M4** **0.43 A/m**

Cursor:
Total = 0.468 A/m
H Category: M4
Location: 0, 4, 4.7 mm

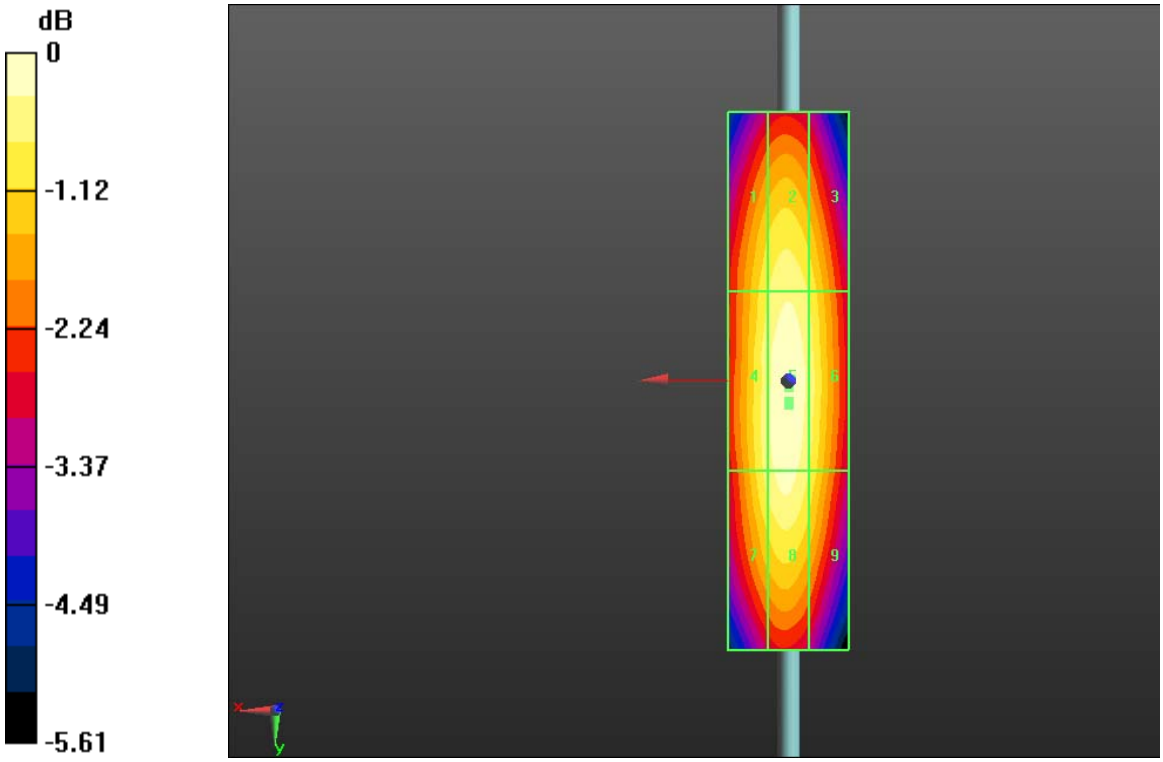
Dipole H-Field measurement with H3DV6 probe/H Scan - AM80%_PMF/Hearing Aid Compatibility Test (41x181x1):

Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.32 V/m; Power Drift = 0.04 dB
PMR not calibrated. PMF = 1.000 is applied.
H-field emissions = 0.30 A/m
Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 **M4** **0.28 A/m**	Grid 2 **M4** **0.29 A/m**	Grid 3 **M4** **0.27 A/m**
Grid 4 **M4** **0.29 A/m**	Grid 5 **M4** **0.30 A/m**	Grid 6 **M4** **0.28 A/m**
Grid 7 **M4** **0.28 A/m**	Grid 8 **M4** **0.30 A/m**	Grid 9 **M4** **0.28 A/m**

Cursor:
Total = 0.302 A/m
H Category: M4
Location: 0, 3.5, 4.7 mm



0 dB = 0.160A/m = -15.92 dB A/m

Date/Time: 2/17/2012 4:08:25 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_PMF_UMTS835 MHz_02_17_12

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1011

Communication System: WCDMA FDD V, Communication System: CW, Communication System: AM 80%; Frequency: 835 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/8/2011
- Sensor-Surface: (Fix Surface), z = 4.7
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Dipole H-Field measurement with H3DV6 probe/H Scan - UMTS 835_PMF/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.19 V/m; Power Drift = 0.05 dB
PMR not calibrated. PMF = 1.000 is applied.
H-field emissions = 0.18 A/m
Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 **M4** **0.16 A/m**	Grid 2 **M4** **0.17 A/m**	Grid 3 **M4** **0.16 A/m**
Grid 4 **M4** **0.17 A/m**	Grid 5 **M4** **0.18 A/m**	Grid 6 **M4** **0.17 A/m**
Grid 7 **M4** **0.17 A/m**	Grid 8 **M4** **0.18 A/m**	Grid 9 **M4** **0.17 A/m**

Cursor:
Total = 0.181 A/m
H Category: M4
Location: 0.5, 8.5, 4.7 mm

Dipole H-Field measurement with H3DV6 probe/H Scan - CW 835_PMF/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.11 V/m; Power Drift = 0.08 dB
PMR not calibrated. PMF = 1.000 is applied.
H-field emissions = 0.20 A/m
Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 **M4** **0.17 A/m**	Grid 2 **M4** **0.19 A/m**	Grid 3 **M4** **0.18 A/m**
Grid 4 **M4** **0.18 A/m**	Grid 5 **M4** **0.20 A/m**	Grid 6 **M4** **0.19 A/m**
Grid 7 **M4** **0.18 A/m**	Grid 8 **M4** **0.19 A/m**	Grid 9 **M4** **0.18 A/m**

Cursor:
Total = 0.197 A/m
H Category: M4
Location: -0.5, 1, 4.7 mm

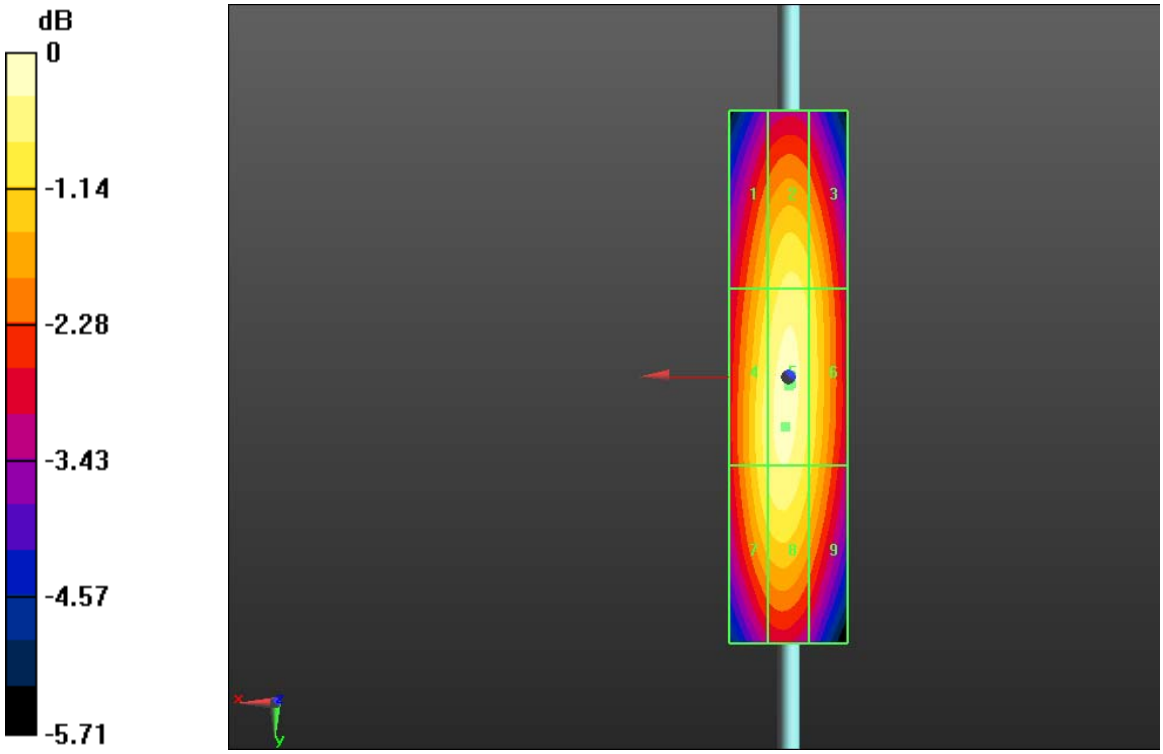
Dipole H-Field measurement with H3DV6 probe/H Scan - AM80%_PMF/Hearing Aid Compatibility Test (41x181x1):

Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.14 V/m; Power Drift = 0.10 dB
PMR not calibrated. PMF = 1.000 is applied.
H-field emissions = 0.13 A/m
Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 **M4** **0.11 A/m**	Grid 2 **M4** **0.12 A/m**	Grid 3 **M4** **0.12 A/m**
Grid 4 **M4** **0.12 A/m**	Grid 5 **M4** **0.13 A/m**	Grid 6 **M4** **0.12 A/m**
Grid 7 **M4** **0.12 A/m**	Grid 8 **M4** **0.12 A/m**	Grid 9 **M4** **0.12 A/m**

Cursor:
Total = 0.127 A/m
H Category: M4
Location: 0, 1.5, 4.7 mm



0 dB = 0.180A/m = -14.89 dB A/m

Date/Time: 9/28/2012 2:45:31 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_validation_1880 MHz_09_28_12

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1008

Communication System: CW; Frequency: 1880 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/8/2011
- Sensor-Surface: (Fix Surface), z = 4.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

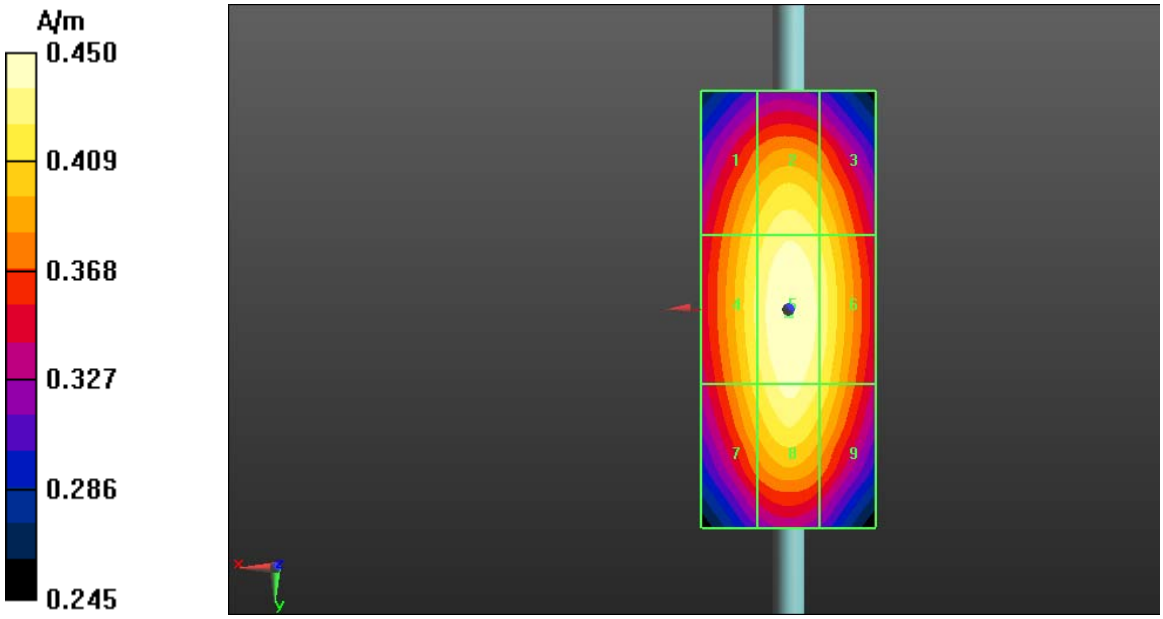
Dipole H-Field measurement with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x101x1): Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.48 V/m; Power Drift = -0.01 dB
PMR not calibrated. PMF = 1.000 is applied.
H-field emissions = 0.45 A/m
Near-field category: M2 (AWF 0 dB)

PMF scaled H-field

Grid 1 **M2** **0.42 A/m**	Grid 2 **M2** **0.44 A/m**	Grid 3 **M2** **0.42 A/m**
Grid 4 **M2** **0.43 A/m**	Grid 5 **M2** **0.45 A/m**	Grid 6 **M2** **0.43 A/m**
Grid 7 **M2**	Grid 8 **M2**	Grid 9 **M2**

0.42 A/m	**0.44 A/m**	**0.42 A/m**

Cursor:
Total = 0.450 A/m
H Category: M2
Location: 0, 0.5, 4.7 mm



Date/Time: 6/28/2012 2:38:12 AM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_validation_1880 MHz_06_28_12

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1008

Communication System: CW; Frequency: 1880 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

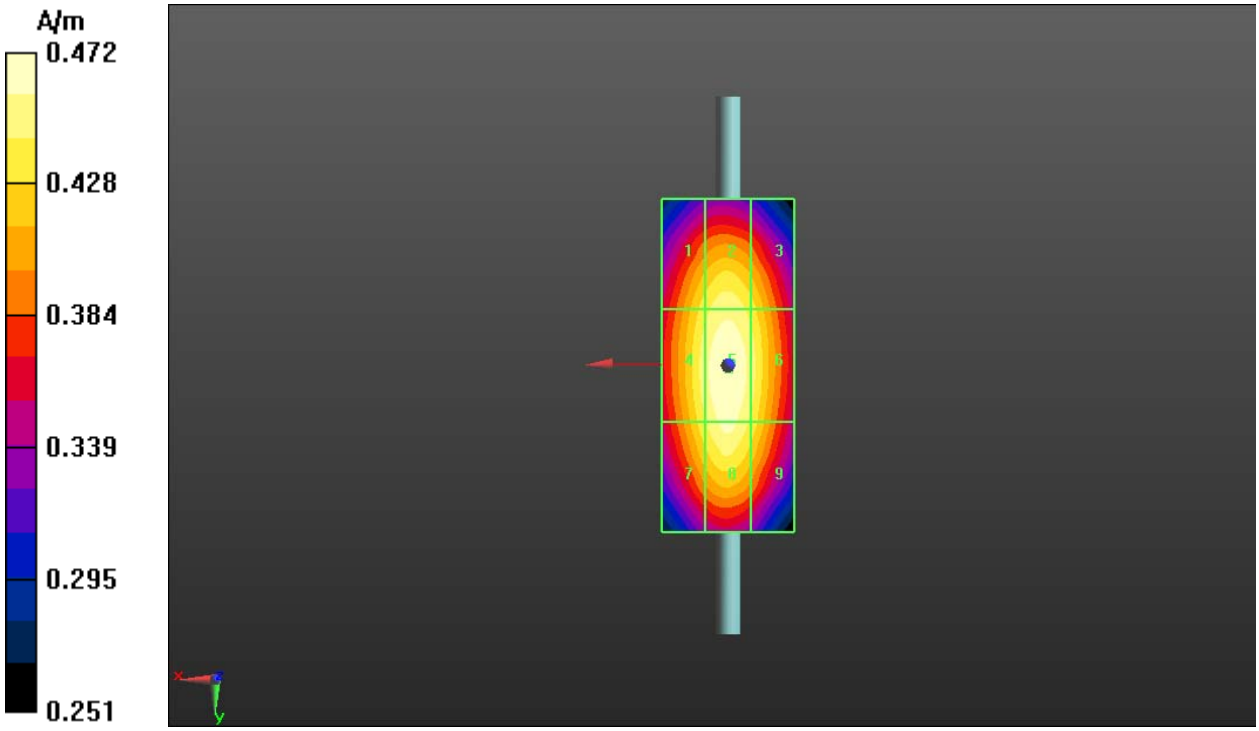
- Probe: H3DV6 - SN6105; ; Calibrated: 11/8/2011
- Sensor-Surface: (Fix Surface), z = 4.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

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
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.50 V/m; Power Drift = -0.03 dB
PMR not calibrated. PMF = 1.000 is applied.
H-field emissions = 0.47 A/m
Near-field category: M2 (AWF 0 dB)

PMF scaled H-field

Grid 1 **M2** **0.44 A/m**	Grid 2 **M2** **0.45 A/m**	Grid 3 **M2** **0.44 A/m**
Grid 4 **M2** **0.45 A/m**	Grid 5 **M2** **0.47 A/m**	Grid 6 **M2** **0.45 A/m**
Grid 7 **M2** **0.44 A/m**	Grid 8 **M2** **0.46 A/m**	Grid 9 **M2** **0.44 A/m**

Cursor:
Total = 0.472 A/m
H Category: M2
Location: 0, 0.5, 4.7 mm



Date/Time: 2/17/2012 3:27:55 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_PMF_UMTS1733 MHz_02_17_12

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1008

Communication System: WCDMA FDD IV, Communication System: CW, Communication System: AM 80%; Frequency: 1732.6 MHz, Frequency: 1733 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/8/2011
- Sensor-Surface: (Fix Surface), z = 4.7
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Dipole H-Field measurement with H3DV6 probe/H Scan -UMTS 1733_PMF/Hearing Aid Compatibility Test (41x101x1): Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.17 V/m; Power Drift = -0.03 dB
PMR not calibrated. PMF = 1.000 is applied.
H-field emissions = 0.16 A/m
Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 **M4** **0.14 A/m**	Grid 2 **M4** **0.15 A/m**	Grid 3 **M4** **0.14 A/m**
Grid 4 **M4** **0.15 A/m**	Grid 5 **M4** **0.16 A/m**	Grid 6 **M4** **0.15 A/m**

Grid 7 **M4** **0.14 A/m**	Grid 8 **M4** **0.15 A/m**	Grid 9 **M4** **0.14 A/m**

Cursor:
Total = 0.157 A/m
H Category: M4
Location: 0, 0, 4.7 mm

Dipole H-Field measurement with H3DV6 probe/H Scan - CW 1733_PMF/Hearing Aid Compatibility Test (41x101x1): Measurement

grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.17 V/m; Power Drift = -0.16 dB
PMR not calibrated. PMF = 1.000 is applied.
H-field emissions = 0.16 A/m
Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 **M4** **0.14 A/m**	Grid 2 **M4** **0.15 A/m**	Grid 3 **M4** **0.14 A/m**
Grid 4 **M4** **0.15 A/m**	Grid 5 **M4** **0.16 A/m**	Grid 6 **M4** **0.15 A/m**
Grid 7 **M4** **0.14 A/m**	Grid 8 **M4** **0.15 A/m**	Grid 9 **M4** **0.14 A/m**

Cursor:
Total = 0.157 A/m
H Category: M4
Location: -0.5, 0.5, 4.7 mm

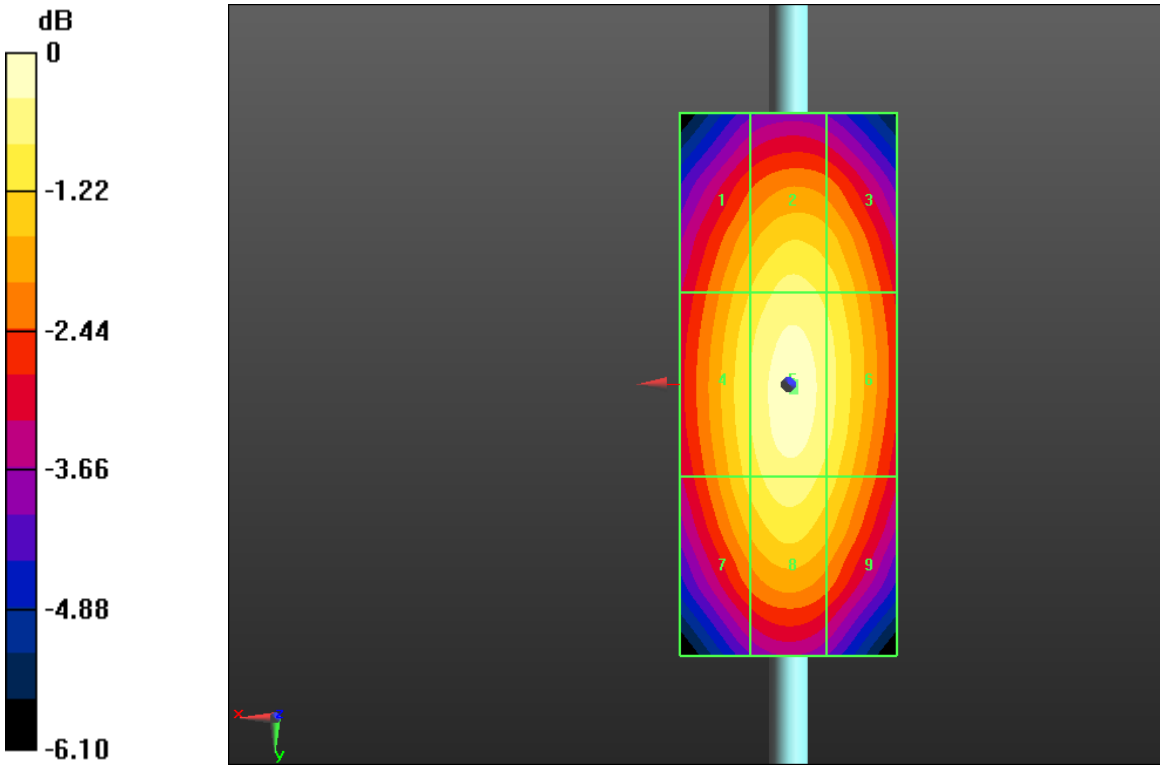
Dipole H-Field measurement with H3DV6 probe/H Scan - AM80%_1733_PMF/Hearing Aid Compatibility Test (41x101x1):

Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.11 V/m; Power Drift = -0.14 dB
PMR not calibrated. PMF = 1.000 is applied.
H-field emissions = 0.10 A/m
Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 **M4** **0.09 A/m**	Grid 2 **M4** **0.10 A/m**	Grid 3 **M4** **0.09 A/m**
Grid 4 **M4** **0.09 A/m**	Grid 5 **M4** **0.10 A/m**	Grid 6 **M4** **0.10 A/m**
Grid 7 **M4** **0.09 A/m**	Grid 8 **M4** **0.10 A/m**	Grid 9 **M4** **0.09 A/m**

Cursor:
Total = 0.100 A/m
H Category: M4
Location: -0.5, 0, 4.7 mm



0 dB = 0.160A/m = -15.92 dB A/m

Date/Time: 1/31/2012 3:44:25 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_PMF_GSM1880 MHz_01_31_12

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1008

Communication System: GSM 1880_PMF, Communication System: CW, Communication System: AM 80%; Frequency: 1880 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/8/2011
- Sensor-Surface: (Fix Surface), z = 4.7
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Dipole H-Field measurement with H3DV6 probe/H Scan -GSM 1880_PMF/Hearing Aid Compatibility Test (41x101x1): Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.12 V/m; Power Drift = -0.04 dB
PMR not calibrated. PMF = 1.000 is applied.
H-field emissions = 0.11 A/m
Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 **M4** **0.10 A/m**	Grid 2 **M4** **0.11 A/m**	Grid 3 **M4** **0.10 A/m**
Grid 4 **M4** **0.10 A/m**	Grid 5 **M4** **0.11 A/m**	Grid 6 **M4** **0.11 A/m**
Grid 7 **M4** **0.10 A/m**	Grid 8 **M4** **0.11 A/m**	Grid 9 **M4** **0.10 A/m**

Cursor:
Total = 0.110 A/m
H Category: M4
Location: 0, 0.5, 4.7 mm

Dipole H-Field measurement with H3DV6 probe/H Scan - CW 1800_PMF/Hearing Aid Compatibility Test (41x101x1): Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.35 V/m; Power Drift = 0.04 dB
PMR not calibrated. PMF = 1.000 is applied.
H-field emissions = 0.33 A/m
Near-field category: M3 (AWF 0 dB)

PMF scaled H-field

Grid 1 **M3** **0.30 A/m**	Grid 2 **M3** **0.32 A/m**	Grid 3 **M3** **0.31 A/m**
Grid 4 **M3** **0.31 A/m**	Grid 5 **M3** **0.33 A/m**	Grid 6 **M3** **0.31 A/m**
Grid 7 **M3** **0.30 A/m**	Grid 8 **M3** **0.32 A/m**	Grid 9 **M3** **0.30 A/m**

Cursor:
Total = 0.327 A/m
H Category: M3
Location: 0, 0.5, 4.7 mm

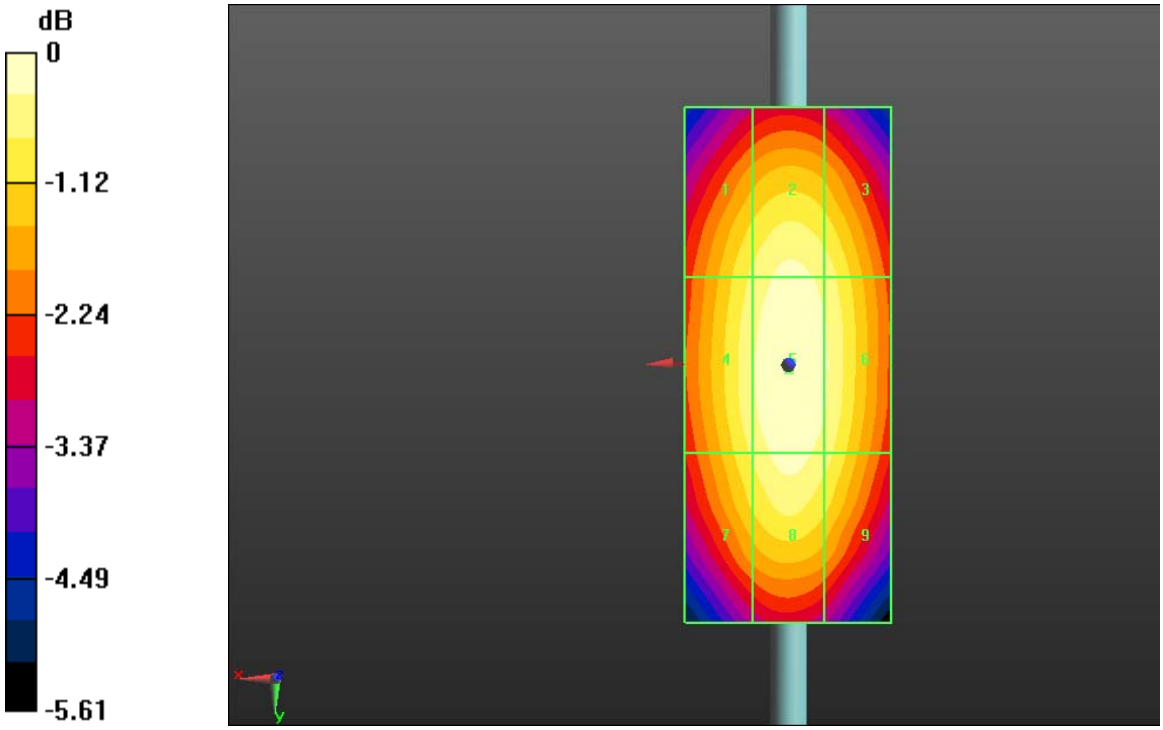
Dipole H-Field measurement with H3DV6 probe/H Scan - AM80%_1880_PMF/Hearing Aid Compatibility Test (41x101x1):

Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.23 V/m; Power Drift = 0.05 dB
PMR not calibrated. PMF = 1.000 is applied.
H-field emissions = 0.21 A/m
Near-field category: M3 (AWF 0 dB)

PMF scaled H-field

Grid 1 **M3** **0.20 A/m**	Grid 2 **M3** **0.21 A/m**	Grid 3 **M3** **0.20 A/m**
Grid 4 **M3** **0.20 A/m**	Grid 5 **M3** **0.21 A/m**	Grid 6 **M3** **0.20 A/m**
Grid 7 **M3** **0.20 A/m**	Grid 8 **M3** **0.21 A/m**	Grid 9 **M3** **0.20 A/m**

Cursor:
Total = 0.214 A/m
H Category: M3
Location: 0, 0, 4.7 mm



0 dB = 0.110A/m = -19.17 dB A/m

Date/Time: 2/17/2012 3:56:44 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_PMF_UMTS1880 MHz_02_17_12

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1008

Communication System: WCDMA FDD II, Communication System: CW, Communication System: AM 80%; Frequency: 1880 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/8/2011
- Sensor-Surface: (Fix Surface), z = 4.7
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Dipole H-Field measurement with H3DV6 probe/H Scan -UMTS 1880_PMF/Hearing Aid Compatibility Test (41x101x1): Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.16 V/m; Power Drift = 0.06 dB
PMR not calibrated. PMF = 1.000 is applied.
H-field emissions = 0.15 A/m
Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 **M4** **0.14 A/m**	Grid 2 **M4** **0.14 A/m**	Grid 3 **M4** **0.14 A/m**
Grid 4 **M4** **0.14 A/m**	Grid 5 **M4** **0.15 A/m**	Grid 6 **M4** **0.14 A/m**
Grid 7 **M4** **0.14 A/m**	Grid 8 **M4** **0.15 A/m**	Grid 9 **M4** **0.14 A/m**

Cursor:
Total = 0.150 A/m
H Category: M4
Location: 0, 0.5, 4.7 mm

Dipole H-Field measurement with H3DV6 probe/H Scan - CW 1880_PMF/Hearing Aid Compatibility Test (41x101x1): Measurement

grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.16 V/m; Power Drift = -0.01 dB
PMR not calibrated. PMF = 1.000 is applied.
H-field emissions = 0.15 A/m
Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 **M4** **0.14 A/m**	Grid 2 **M4** **0.14 A/m**	Grid 3 **M4** **0.14 A/m**
Grid 4 **M4** **0.14 A/m**	Grid 5 **M4** **0.15 A/m**	Grid 6 **M4** **0.14 A/m**
Grid 7 **M4** **0.14 A/m**	Grid 8 **M4** **0.15 A/m**	Grid 9 **M4** **0.14 A/m**

Cursor:
Total = 0.149 A/m
H Category: M4
Location: 0, 0.5, 4.7 mm

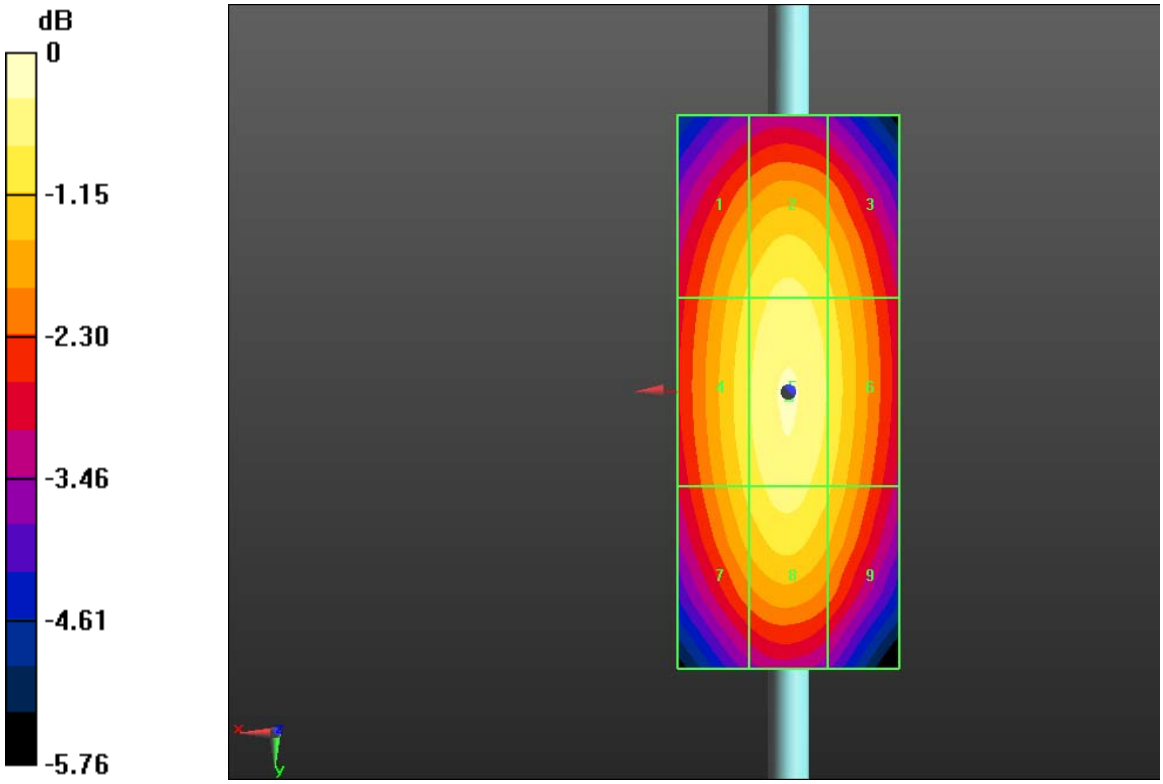
Dipole H-Field measurement with H3DV6 probe/H Scan - AM80%_1880_PMF/Hearing Aid Compatibility Test (41x101x1):

Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.10 V/m; Power Drift = -0.07 dB
PMR not calibrated. PMF = 1.000 is applied.
H-field emissions = 0.10 A/m
Near-field category: M4 (AWF 0 dB)

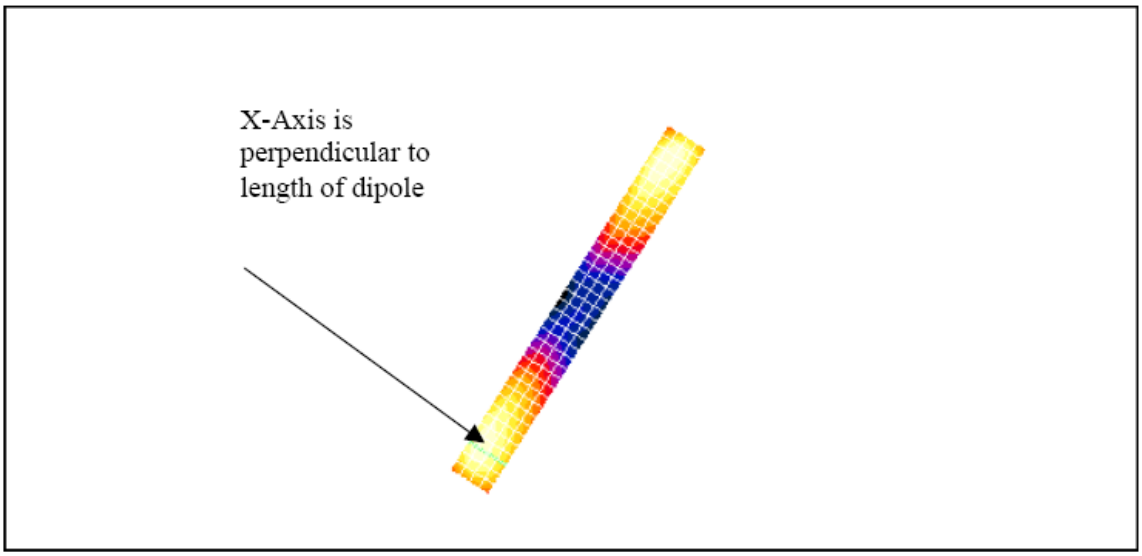
PMF scaled H-field

Grid 1 **M4** **0.09 A/m**	Grid 2 **M4** **0.09 A/m**	Grid 3 **M4** **0.09 A/m**
Grid 4 **M4** **0.09 A/m**	Grid 5 **M4** **0.10 A/m**	Grid 6 **M4** **0.09 A/m**
Grid 7 **M4** **0.09 A/m**	Grid 8 **M4** **0.09 A/m**	Grid 9 **M4** **0.09 A/m**

Cursor:
Total = 0.096 A/m
H Category: M4
Location: 0, 0, 4.7 mm



0 dB = 0.150A/m = -16.48 dB A/m



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.

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, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3
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)

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

E in V/m (Slot averaged)

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

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

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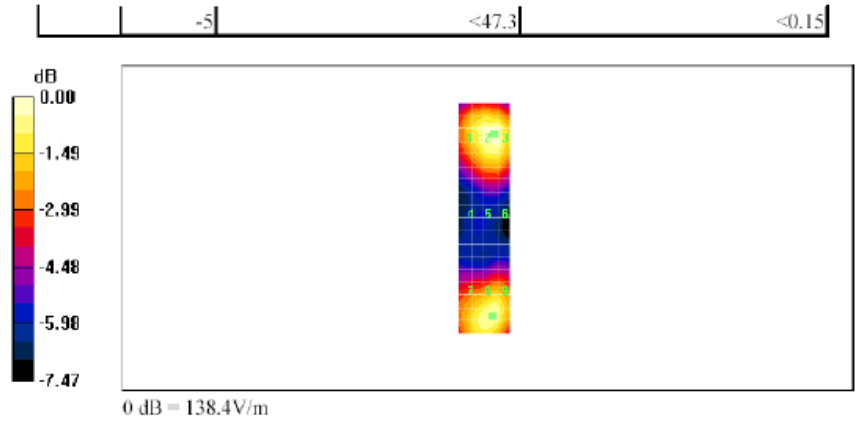

file://C:\Program%20Files\DASY4\Print_Templates\Dipole%20Validation%201880%20... 14/07/2005

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, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3
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)

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

E in V/m (Slot averaged)

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

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

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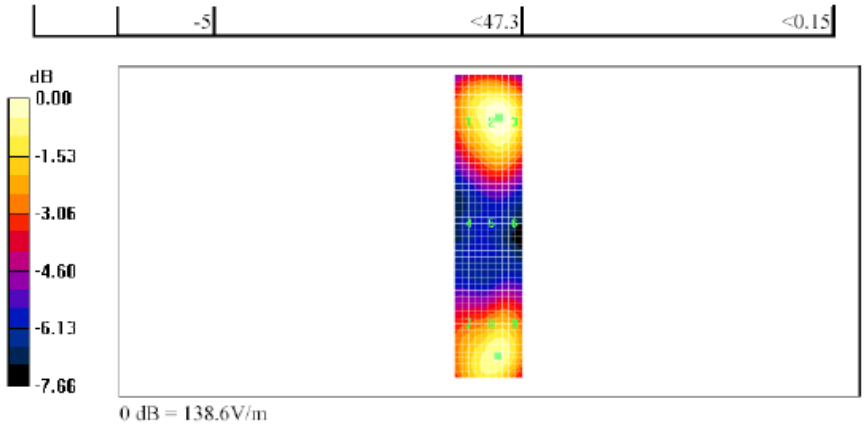

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Date/Time: 14/07/2005 12:43:02 PM

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: σ = 0 mho/m, ε_r = 1; ρ = 1 kg/m^3
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)

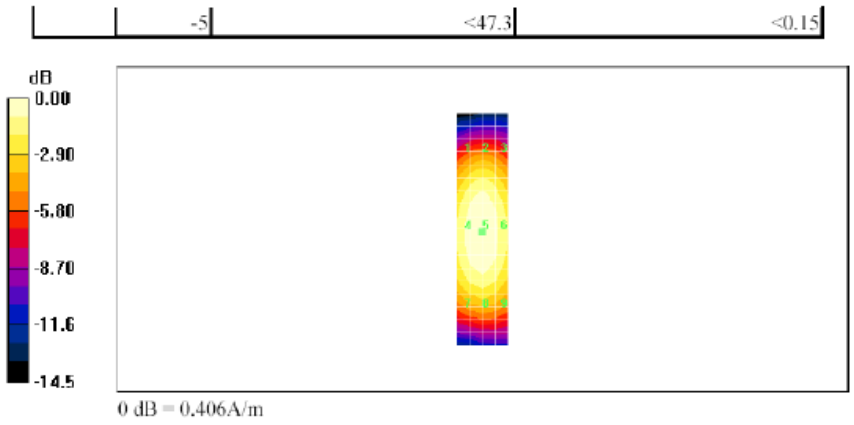
H in A/m (Time averaged)

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

H in A/m (Slot averaged)

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



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, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
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)

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

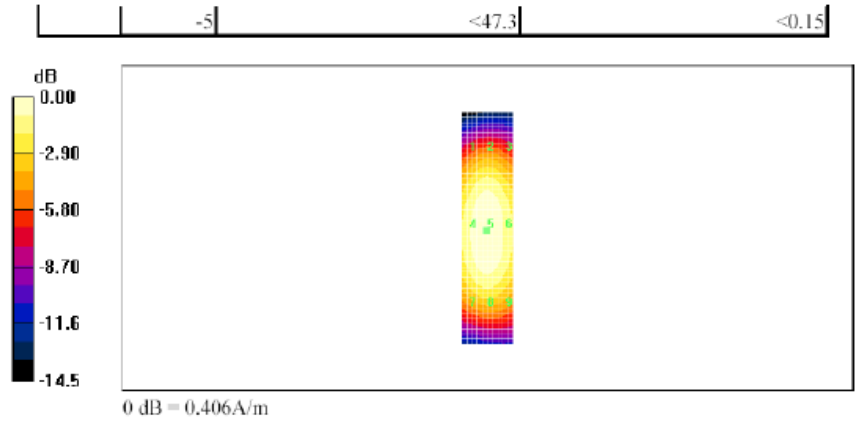
H in A/m (Slot averaged)

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

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

Page 2 of 2



A.3 RF emission field plots

Date/Time: 6/19/2012 2:39:21 AM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_GSM850

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A211C01

Communication System: GSM 850; Frequency: 824.2 MHz, Frequency: 836.8 MHz, Frequency: 848.8 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/9/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to Device_Low_Chan/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 68.05 V/m; Power Drift = -0.07 dB
PMR not calibrated. PMF = 3.130 is applied.
E-field emissions = 180.0 V/m
Near-field category: M3 (AWF -5 dB)

PMF scaled E-field

Grid 1 **M4** **147.0 V/m**	Grid 2 **M3** **155.9 V/m**	Grid 3 **M3** **151.3 V/m**
Grid 4 **M3** **172.4 V/m**	Grid 5 **M3** **180.0 V/m**	Grid 6 **M3** **169.6 V/m**
Grid 7 **M3** **197.4 V/m**	Grid 8 **M3** **202.3 V/m**	Grid 9 **M3** **183.9 V/m**

Cursor:

Total = 202.3 V/m
E Category: M3
Location: 2, 25, 8.7 mm

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device_Mid_Chan/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 72.12 V/m; Power Drift = -0.10 dB
PMR not calibrated. PMF = 3.130 is applied.
E-field emissions = 190.1 V/m
Near-field category: M3 (AWF -5 dB)

PMF scaled E-field

Grid 1 **M4** **149.1 V/m**	Grid 2 **M3** **166.3 V/m**	Grid 3 **M3** **163.6 V/m**
Grid 4 **M3** **176.6 V/m**	Grid 5 **M3** **190.1 V/m**	Grid 6 **M3** **183.7 V/m**
Grid 7 **M3** **203.9 V/m**	Grid 8 **M3** **213.2 V/m**	Grid 9 **M3** **198.3 V/m**

Cursor:

Total = 213.2 V/m
E Category: M3
Location: 0.5, 25, 8.7 mm

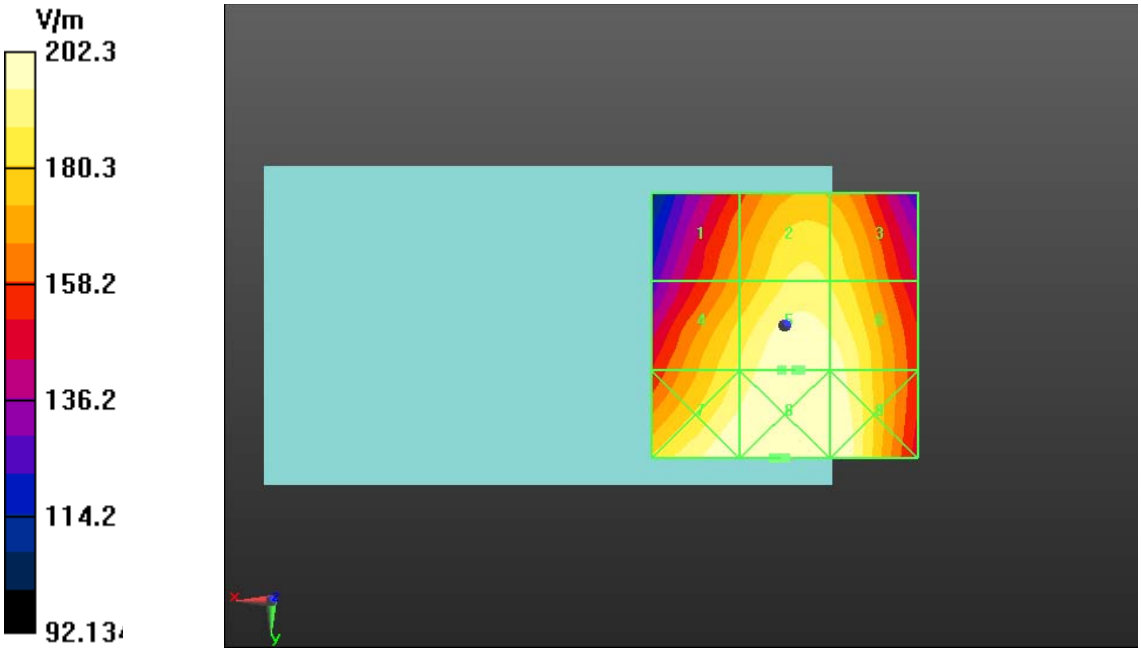
Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device_High_Chan/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 75.05 V/m; Power Drift = 0.02 dB
PMR not calibrated. PMF = 3.130 is applied.
E-field emissions = 197.7 V/m
Near-field category: M3 (AWF -5 dB)

PMF scaled E-field

Grid 1 **M3** **158.1 V/m**	Grid 2 **M3** **180.6 V/m**	Grid 3 **M3** **176.3 V/m**
Grid 4 **M3** **179.4 V/m**	Grid 5 **M3** **197.7 V/m**	Grid 6 **M3** **193.7 V/m**
Grid 7 **M3** **203.0 V/m**	Grid 8 **M3** **213.6 V/m**	Grid 9 **M3** **204.4 V/m**

Cursor:

Total = 213.6 V/m
E Category: M3
Location: 0, 25, 8.7 mm



Date/Time: 6/28/2012 3:51:52 AM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_GSM850_Tcoil

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A211C01

Communication System: GSM 850; Frequency: 848.8 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/9/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device_telecoil/Hearing Aid Compatibility Test (101x101x1):

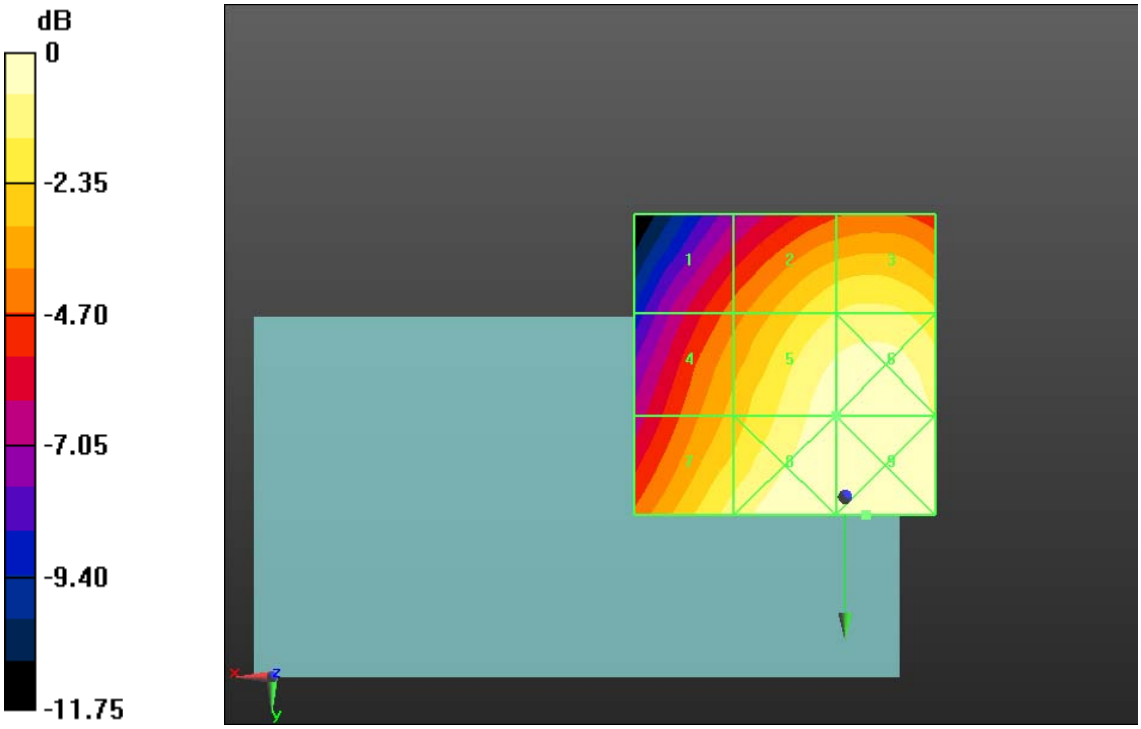
Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 71.61 V/m; Power Drift = -0.00 dB
PMR not calibrated. PMF = 3.130 is applied.
E-field emissions = 162.3 V/m
Near-field category: M3 (AWF -5 dB)

PMF scaled E-field

Grid 1 **M4** **102.5 V/m**	Grid 2 **M4** **140.4 V/m**	Grid 3 **M4** **144.2 V/m**
Grid 4 **M4** **121.8 V/m**	Grid 5 **M3** **162.3 V/m**	Grid 6 **M3** **167.0 V/m**
Grid 7 **M4** **146.3 V/m**	Grid 8 **M3** **179.5 V/m**	Grid 9 **M3** **182.3 V/m**

Cursor:

Total = 182.3 V/m
E Category: M3
Location: -3.5, 3, 8.7 mm



0 dB = 167.8V/m = 44.50 dB V/m

Date/Time: 6/19/2012 4:43:39 AM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_UMTS_Band_V

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A211C01

Communication System: WCDMA FDD V; Frequency: 826.4 MHz, Frequency: 836.4 MHz, Frequency: 846.6 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/9/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to Device_Low_Chan/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 63.06 V/m; Power Drift = -0.04 dB
PMR not calibrated. PMF = 1.070 is applied.
E-field emissions = 56.37 V/m
Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 **M4** **46.79 V/m**	Grid 2 **M4** **50.29 V/m**	Grid 3 **M4** **48.16 V/m**
Grid 4 **M4** **53.19 V/m**	Grid 5 **M4** **56.37 V/m**	Grid 6 **M4** **54.75 V/m**
Grid 7 **M4** **59.84 V/m**	Grid 8 **M4** **63.50 V/m**	Grid 9 **M4** **58.75 V/m**

Cursor:
Total = 63.500 V/m
E Category: M4
Location: -4, 25, 8.7 mm

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device_Mid_Chan/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 61.40 V/m; Power Drift = -0.05 dB
PMR not calibrated. PMF = 1.070 is applied.
E-field emissions = 55.40 V/m
Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 **M4** **44.29 V/m**	Grid 2 **M4** **48.68 V/m**	Grid 3 **M4** **47.65 V/m**
Grid 4 **M4** **51.53 V/m**	Grid 5 **M4** **55.40 V/m**	Grid 6 **M4** **53.66 V/m**
Grid 7 **M4** **59.45 V/m**	Grid 8 **M4** **61.52 V/m**	Grid 9 **M4** **57.30 V/m**

Cursor:
Total = 61.523 V/m
E Category: M4
Location: 2, 25, 8.7 mm

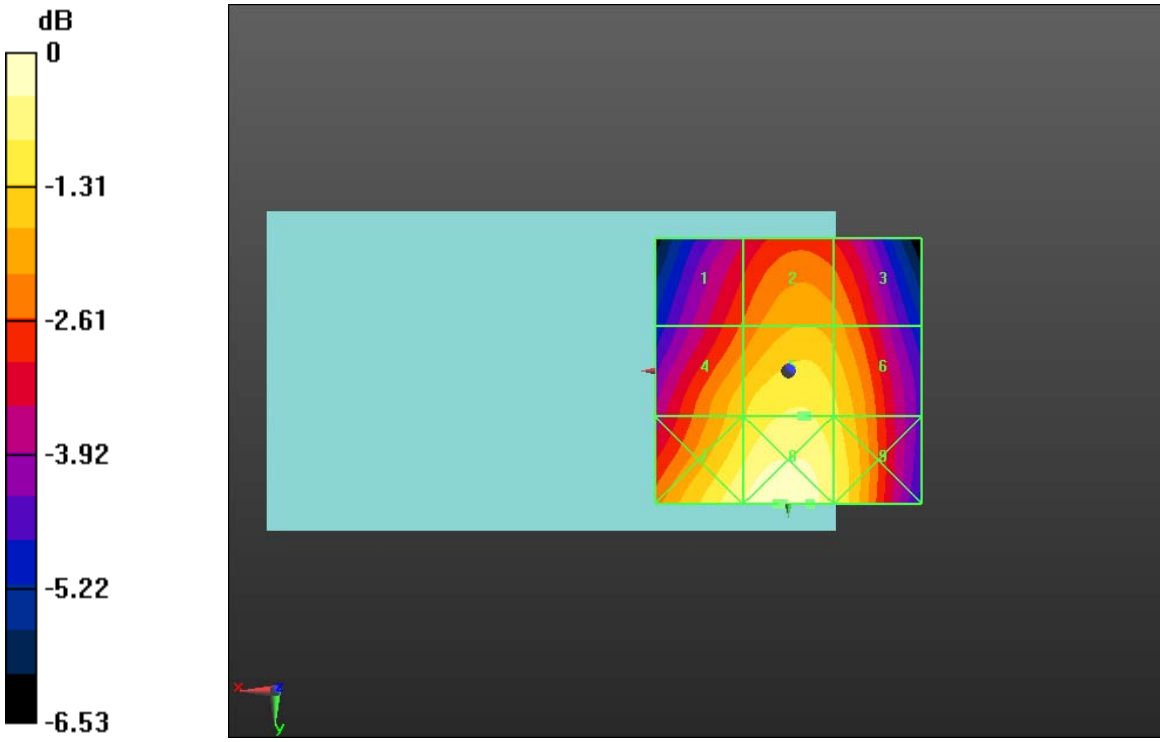
Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device_High_Chan/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 66.64 V/m; Power Drift = -0.02 dB
PMR not calibrated. PMF = 1.070 is applied.
E-field emissions = 59.02 V/m
Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 **M4** **49.09 V/m**	Grid 2 **M4** **53.53 V/m**	Grid 3 **M4** **52.27 V/m**
Grid 4 **M4** **55.63 V/m**	Grid 5 **M4** **59.02 V/m**	Grid 6 **M4** **56.81 V/m**
Grid 7 **M4** **61.61 V/m**	Grid 8 **M4** **64.35 V/m**	Grid 9 **M4** **59.30 V/m**

Cursor:
Total = 64.347 V/m
E Category: M4
Location: 1, 25, 8.7 mm



0 dB = 63.500V/m = 36.06 dB V/m

Date/Time: 6/28/2012 5:13:14 AM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_UMTS_Band_V_Tcoil

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A211C01

Communication System: WCDMA FDD V; Frequency: 846.6 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/9/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

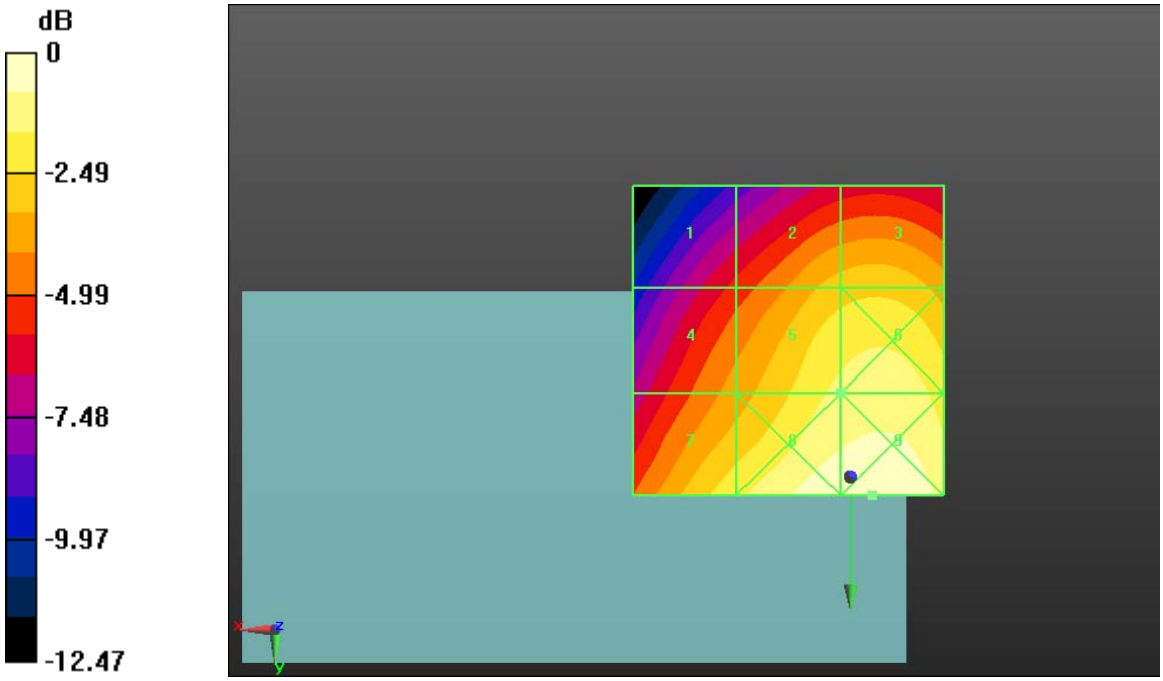
Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device_telecoil/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 69.12 V/m; Power Drift = -0.06 dB
PMR not calibrated. PMF = 1.070 is applied.
E-field emissions = 50.84 V/m
Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 **M4** **31.83 V/m**	Grid 2 **M4** **42.99 V/m**	Grid 3 **M4** **44.08 V/m**
Grid 4 **M4** **39.06 V/m**	Grid 5 **M4** **50.84 V/m**	Grid 6 **M4** **52.34 V/m**
Grid 7 **M4** **48.44 V/m**	Grid 8 **M4** **59.26 V/m**	Grid 9 **M4** **60.02 V/m**

Cursor:
Total = 60.024 V/m
E Category: M4
Location: -3.5, 3, 8.7 mm



0 dB = 60.020V/m = 35.57 dB V/m

Date/Time: 6/19/2012 3:03:00 AM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_GSM1900

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A211C01

Communication System: GSM 1900; Frequency: 1850.2 MHz, Frequency: 1880 MHz, Frequency: 1909.8 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/9/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to Device_Low_Chan/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 9.78 V/m; Power Drift = -0.23 dB
PMR not calibrated. PMF = 2.920 is applied.
E-field emissions = 57.50 V/m
Near-field category: M3 (AWF -5 dB)

PMF scaled E-field

Grid 1 **M3** **56.06 V/m**	Grid 2 **M3** **57.50 V/m**	Grid 3 **M3** **50.95 V/m**
Grid 4 **M4** **30.10 V/m**	Grid 5 **M3** **49.47 V/m**	Grid 6 **M3** **50.09 V/m**
Grid 7 **M3** **54.03 V/m**	Grid 8 **M3** **77.37 V/m**	Grid 9 **M3** **77.14 V/m**

Cursor:

Total = 77.373 V/m
E Category: M3
Location: -7, 25, 8.7 mm

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device_Mid_Chan/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 8.54 V/m; Power Drift = 0.04 dB
PMR not calibrated. PMF = 2.920 is applied.
E-field emissions = 52.54 V/m
Near-field category: M3 (AWF -5 dB)

PMF scaled E-field

Grid 1 **M3** **50.47 V/m**	Grid 2 **M3** **52.54 V/m**	Grid 3 **M3** **49.54 V/m**
Grid 4 **M4** **27.73 V/m**	Grid 5 **M4** **42.71 V/m**	Grid 6 **M4** **43.46 V/m**
Grid 7 **M4** **45.53 V/m**	Grid 8 **M3** **66.99 V/m**	Grid 9 **M3** **66.96 V/m**

Cursor:

Total = 66.992 V/m
E Category: M3
Location: -8, 25, 8.7 mm

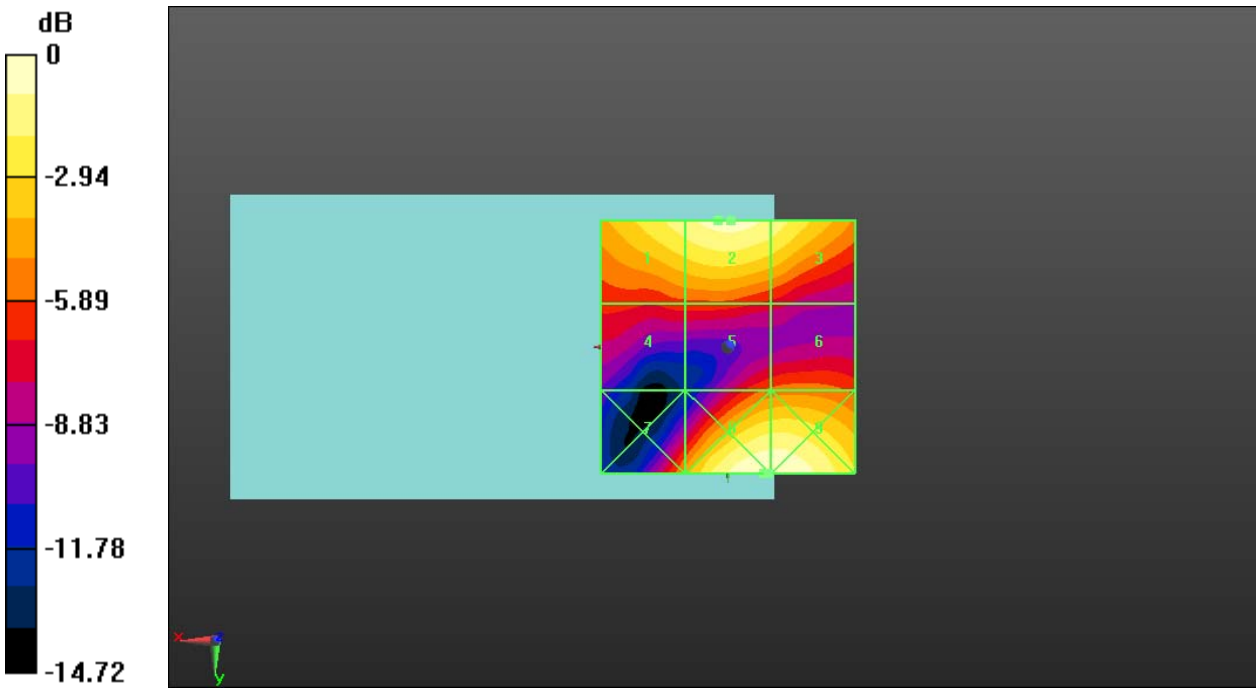
Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device_High_Chan/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 7.61 V/m; Power Drift = 0.15 dB
PMR not calibrated. PMF = 2.920 is applied.
E-field emissions = 56.08 V/m
Near-field category: M3 (AWF -5 dB)

PMF scaled E-field

Grid 1 **M3** **51.87 V/m**	Grid 2 **M3** **56.08 V/m**	Grid 3 **M3** **52.23 V/m**
Grid 4 **M4** **32.00 V/m**	Grid 5 **M4** **34.09 V/m**	Grid 6 **M4** **35.11 V/m**
Grid 7 **M4** **38.32 V/m**	Grid 8 **M3** **59.81 V/m**	Grid 9 **M3** **59.80 V/m**

Cursor:

Total = 59.810 V/m
E Category: M3
Location: -8, 25, 8.7 mm



0 dB = 76.340V/m = 37.66 dB V/m

Date/Time: 6/28/2012 5:01:14 AM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_GSM1900_Tcoil

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A211C01

Communication System: GSM 1900; Frequency: 1850.2 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/9/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device_telecoil/Hearing Aid Compatibility Test (101x101x1):

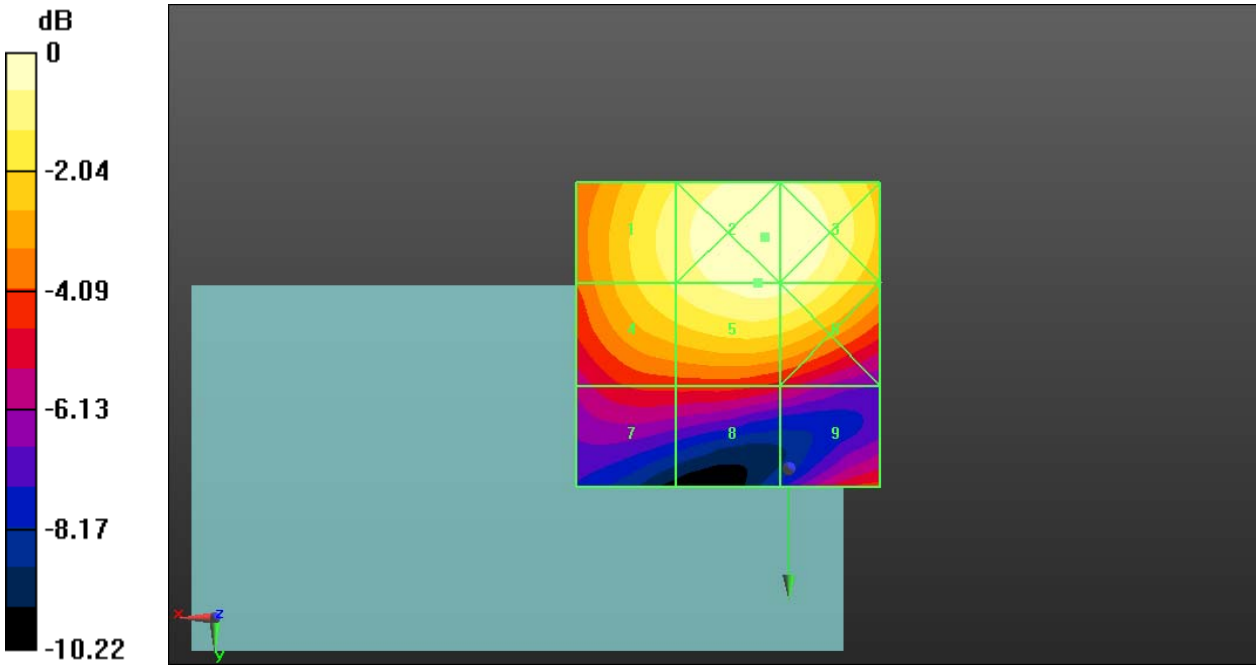
Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 8.86 V/m; Power Drift = -0.06 dB
PMR not calibrated. PMF = 2.920 is applied.
E-field emissions = 65.50 V/m
Near-field category: M3 (AWF -5 dB)

PMF scaled E-field

Grid 1 **M3** **61.18 V/m**	Grid 2 **M3** **68.97 V/m**	Grid 3 **M3** **68.74 V/m**
Grid 4 **M3** **59.09 V/m**	Grid 5 **M3** **65.50 V/m**	Grid 6 **M3** **65.03 V/m**
Grid 7 **M4** **40.55 V/m**	Grid 8 **M4** **40.83 V/m**	Grid 9 **M4** **40.74 V/m**

Cursor:

Total = 68.974 V/m
E Category: M3
Location: 4, -38, 8.7 mm



0 dB = 68.050V/m = 36.66 dB V/m

Date/Time: 6/19/2012 3:24:35 AM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_UMTS_Band_II

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A211C01

Communication System: WCDMA FDD II; Frequency: 1852.4 MHz, Frequency: 1880 MHz, Frequency: 1907.6 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/9/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to Device_Low_Chan/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 14.47 V/m; Power Drift = 0.13 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 28.41 V/m
Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 **M4** **27.38 V/m**	Grid 2 **M4** **28.41 V/m**	Grid 3 **M4** **26.21 V/m**
Grid 4 **M4** **14.53 V/m**	Grid 5 **M4** **23.79 V/m**	Grid 6 **M4** **24.43 V/m**
Grid 7 **M4** **24.08 V/m**	Grid 8 **M4** **35.98 V/m**	Grid 9 **M4** **35.94 V/m**

Cursor:
Total = 35.981 V/m
E Category: M4
Location: -7.5, 25, 8.7 mm

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device_Mid_Chan/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 13.46 V/m; Power Drift = -0.05 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 28.66 V/m
Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 **M4** **27.85 V/m**	Grid 2 **M4** **28.66 V/m**	Grid 3 **M4** **26.08 V/m**
Grid 4 **M4** **15.11 V/m**	Grid 5 **M4** **23.26 V/m**	Grid 6 **M4** **23.92 V/m**
Grid 7 **M4** **24.30 V/m**	Grid 8 **M4** **35.93 V/m**	Grid 9 **M4** **35.88 V/m**

Cursor:
Total = 35.931 V/m
E Category: M4
Location: -7.5, 25, 8.7 mm

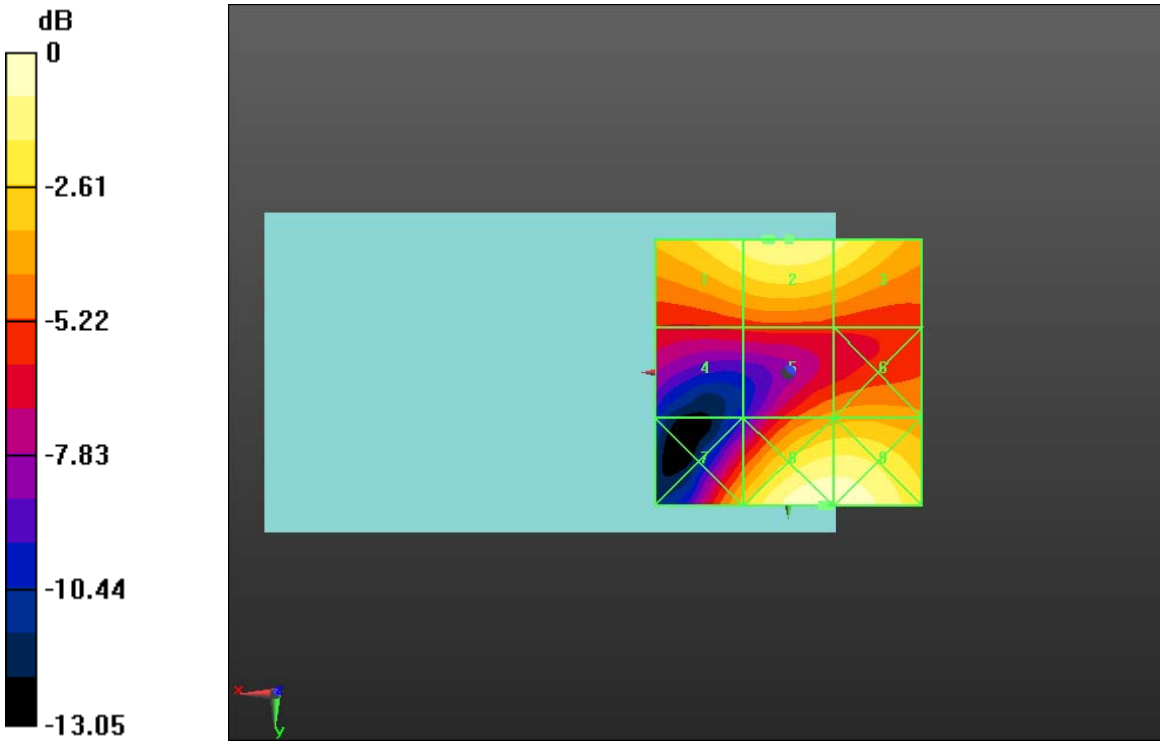
Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device_High_Chan/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 12.40 V/m; Power Drift = 0.09 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 29.11 V/m
Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 **M4** **27.34 V/m**	Grid 2 **M4** **29.11 V/m**	Grid 3 **M4** **27.36 V/m**
Grid 4 **M4** **15.37 V/m**	Grid 5 **M4** **19.64 V/m**	Grid 6 **M4** **20.33 V/m**
Grid 7 **M4** **22.11 V/m**	Grid 8 **M4** **32.43 V/m**	Grid 9 **M4** **32.33 V/m**

Cursor:
Total = 32.429 V/m
E Category: M4
Location: -6.5, 25, 8.7 mm



0 dB = 35.980V/m = 31.12 dB V/m

Date/Time: 6/28/2012 5:19:43 AM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_UMTS_Band_II_Tcoil

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A211C01

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/9/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

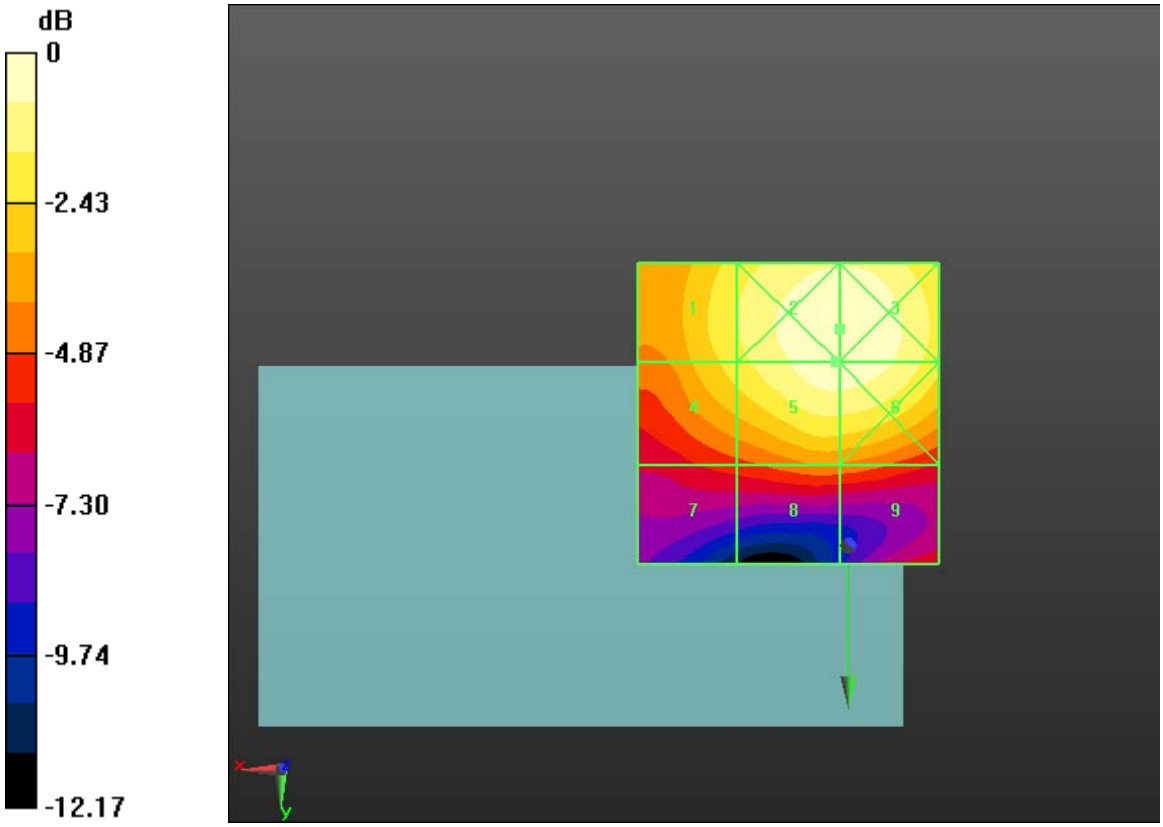
Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device_telecoil/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 12.38 V/m; Power Drift = -0.13 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 33.17 V/m
Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 **M4** **28.27 V/m**	Grid 2 **M4** **34.11 V/m**	Grid 3 **M4** **34.11 V/m**
Grid 4 **M4** **27.21 V/m**	Grid 5 **M4** **33.17 V/m**	Grid 6 **M4** **33.16 V/m**
Grid 7 **M4** **18.87 V/m**	Grid 8 **M4** **21.37 V/m**	Grid 9 **M4** **21.16 V/m**

Cursor:
Total = 34.114 V/m
E Category: M4
Location: 1.5, -36, 8.7 mm



0 dB = 34.110V/m = 30.66 dB V/m

Date/Time: 9/28/2012 3:49:27 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_GSM850

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A8C7018

Communication System: GSM 850; Frequency: 848.8 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/9/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device_High_Chan/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 77.11 V/m; Power Drift = -0.48 dB
PMR not calibrated. PMF = 3.130 is applied.
E-field emissions = 193.4 V/m
Near-field category: M3 (AWF -5 dB)

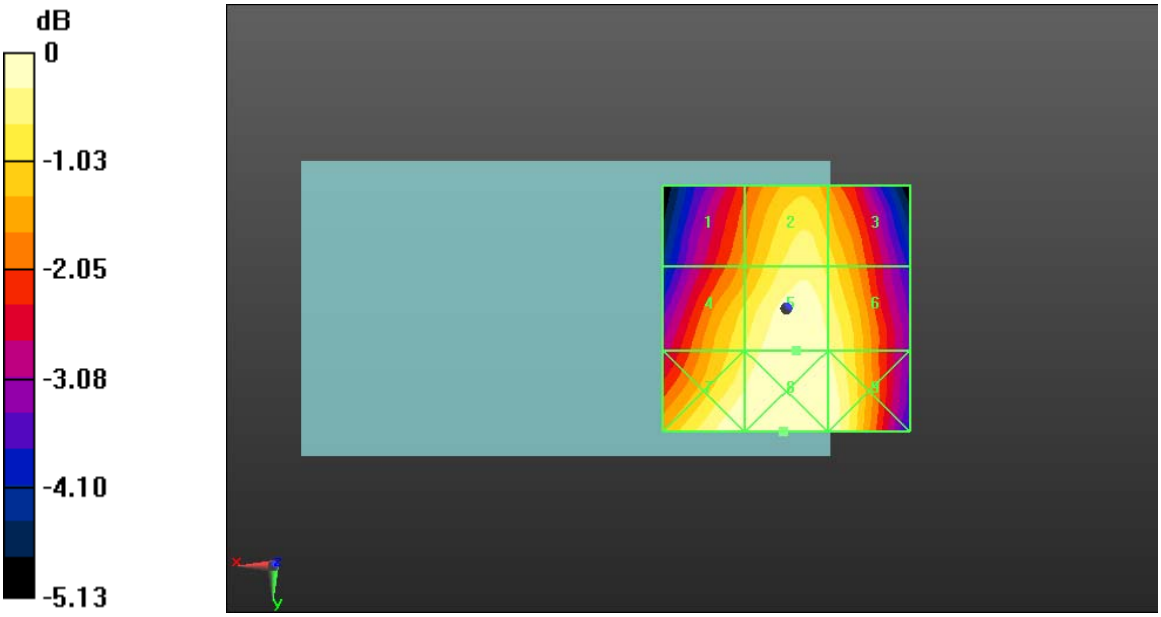
PMF scaled E-field

Grid 1 **M3** **159.9 V/m**	Grid 2 **M3** **181.6 V/m**	Grid 3 **M3** **173.9 V/m**
Grid 4 **M3** **176.2 V/m**	Grid 5 **M3** **193.4 V/m**	Grid 6 **M3** **184.6 V/m**

Grid 7 **M3**	Grid 8 **M3**	Grid 9 **M3**
196.1 V/m	**207.4 V/m**	**192.3 V/m**

Cursor:

Total = 207.4 V/m
E Category: M3
Location: 0.5, 25, 8.7 mm



0 dB = 190.9V/m = 45.62 dB V/m

Date/Time: 9/28/2012 4:32:44 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_UMTS_Band_V

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A8C7018

Communication System: WCDMA FDD V; Frequency: 846.6 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/9/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

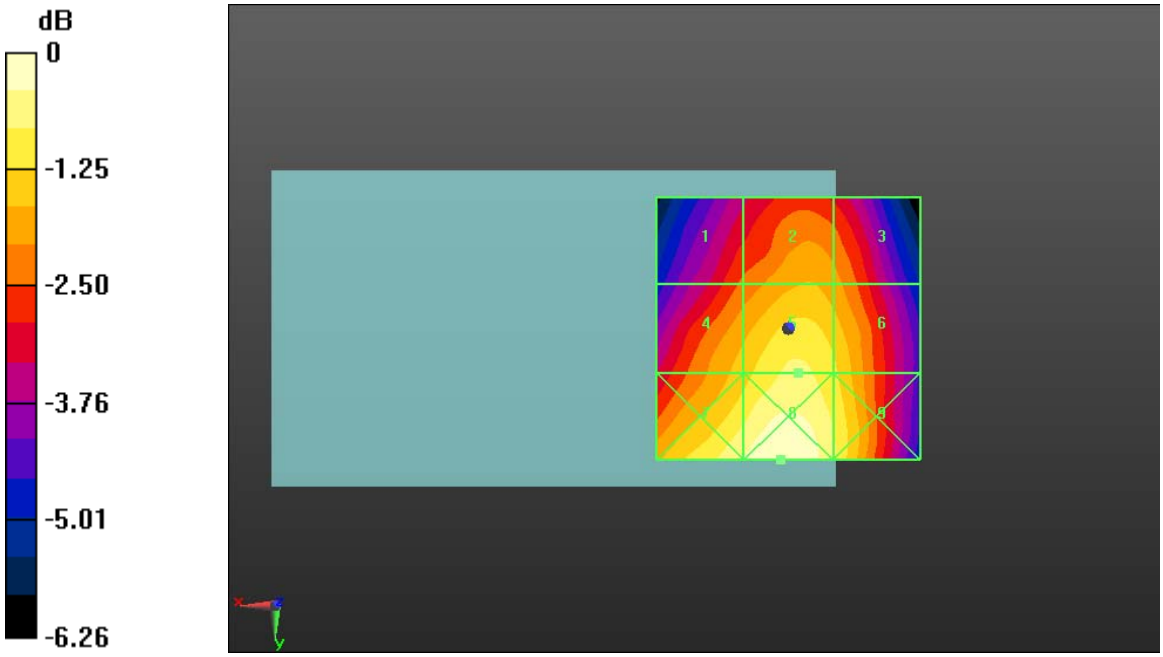
Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device_High_Chan/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 74.15 V/m; Power Drift = 0.01 dB
PMR not calibrated. PMF = 1.070 is applied.
E-field emissions = 66.10 V/m
Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 **M4** **54.79 V/m**	Grid 2 **M4** **59.64 V/m**	Grid 3 **M4** **58.00 V/m**
Grid 4 **M4** **61.21 V/m**	Grid 5 **M4** **66.10 V/m**	Grid 6 **M4** **63.14 V/m**
Grid 7 **M4**	Grid 8 **M4**	Grid 9 **M4**

68.95 V/m	**72.07 V/m**	**66.05 V/m**

Cursor:
Total = 72.066 V/m
E Category: M4
Location: 1.5, 25, 8.7 mm



0 dB = 72.070V/m = 37.16 dB V/m

Date/Time: 9/28/2012 4:04:39 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_GSM1900_Tcoil

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A8C7018

Communication System: GSM 1900; Frequency: 1850.2 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/9/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device_telecoil/Hearing Aid Compatibility Test (101x101x1):

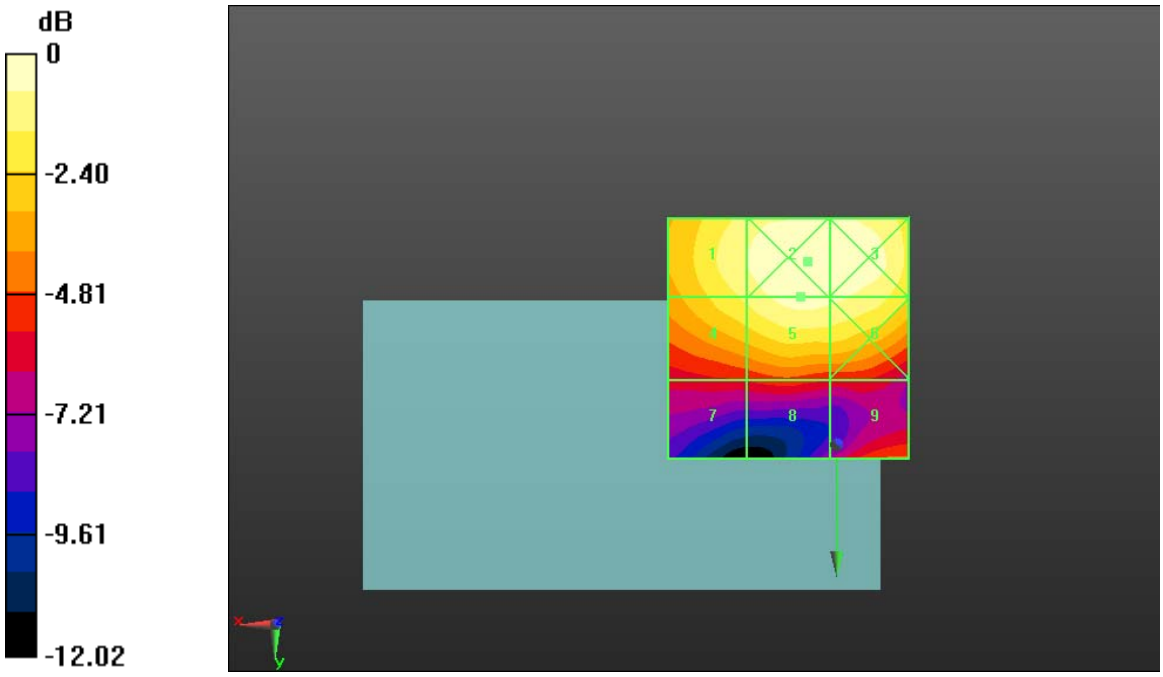
Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 10.52 V/m; Power Drift = -0.03 dB
PMR not calibrated. PMF = 2.920 is applied.
E-field emissions = 66.16 V/m
Near-field category: M3 (AWF -5 dB)

PMF scaled E-field

Grid 1 **M3** **63.35 V/m**	Grid 2 **M3** **70.18 V/m**	Grid 3 **M3** **69.27 V/m**
Grid 4 **M3** **58.97 V/m**	Grid 5 **M3** **66.16 V/m**	Grid 6 **M3** **64.92 V/m**
Grid 7 **M4** **36.74 V/m**	Grid 8 **M4** **39.00 V/m**	Grid 9 **M4** **41.35 V/m**

Cursor:

Total = 70.178 V/m
E Category: M3
Location: 6, -38, 8.7 mm



0 dB = 69.240V/m = 36.81 dB V/m

Date/Time: 9/28/2012 4:40:42 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_UMTS_Band_II_Tcoil

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A8C7018

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/9/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

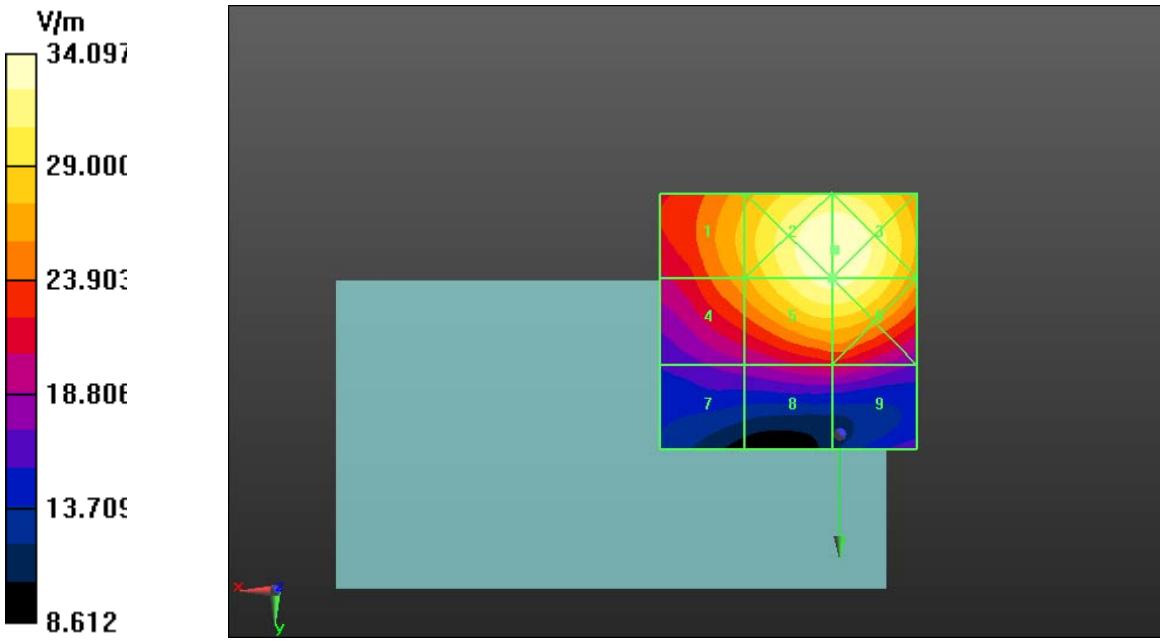
Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device_telecoil/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 12.09 V/m; Power Drift = -0.34 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 33.20 V/m
Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 **M4** **28.15 V/m**	Grid 2 **M4** **34.09 V/m**	Grid 3 **M4** **34.10 V/m**
Grid 4 **M4** **26.97 V/m**	Grid 5 **M4** **33.20 V/m**	Grid 6 **M4** **33.20 V/m**
Grid 7 **M4** **18.38 V/m**	Grid 8 **M4** **21.22 V/m**	Grid 9 **M4** **21.22 V/m**

Cursor:
Total = 34.097 V/m
E Category: M4
Location: 1, -36, 8.7 mm



Date/Time: 9/28/2012 3:18:53 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_UMTS_Band_IV

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A8C7018

Communication System: WCDMA FDD IV; Frequency: 1712.4 MHz, Frequency: 1732.6 MHz, Frequency: 1752.6 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/9/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to Device_Low_Chan/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 30.19 V/m; Power Drift = -0.11 dB
PMR not calibrated. PMF = 1.030 is applied.
E-field emissions = 40.49 V/m
Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 **M4** **36.35 V/m**	Grid 2 **M4** **31.55 V/m**	Grid 3 **M4** **26.72 V/m**
Grid 4 **M4** **26.46 V/m**	Grid 5 **M4** **40.39 V/m**	Grid 6 **M4** **40.49 V/m**
Grid 7 **M4**	Grid 8 **M4**	Grid 9 **M4**

44.43 V/m	**55.48 V/m**	**54.39 V/m**

Cursor:
Total = 55.479 V/m
E Category: M4
Location: -5, 25, 8.7 mm

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device_Mid_Chan/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 26.59 V/m; Power Drift = 0.19 dB
PMR not calibrated. PMF = 1.030 is applied.
E-field emissions = 40.65 V/m
Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 **M4** **40.65 V/m**	Grid 2 **M4** **36.03 V/m**	Grid 3 **M4** **26.16 V/m**
Grid 4 **M4** **24.17 V/m**	Grid 5 **M4** **38.89 V/m**	Grid 6 **M4** **39.26 V/m**
Grid 7 **M4** **43.00 V/m**	Grid 8 **M4** **54.88 V/m**	Grid 9 **M4** **53.71 V/m**

Cursor:
Total = 54.881 V/m
E Category: M4
Location: -5, 25, 8.7 mm

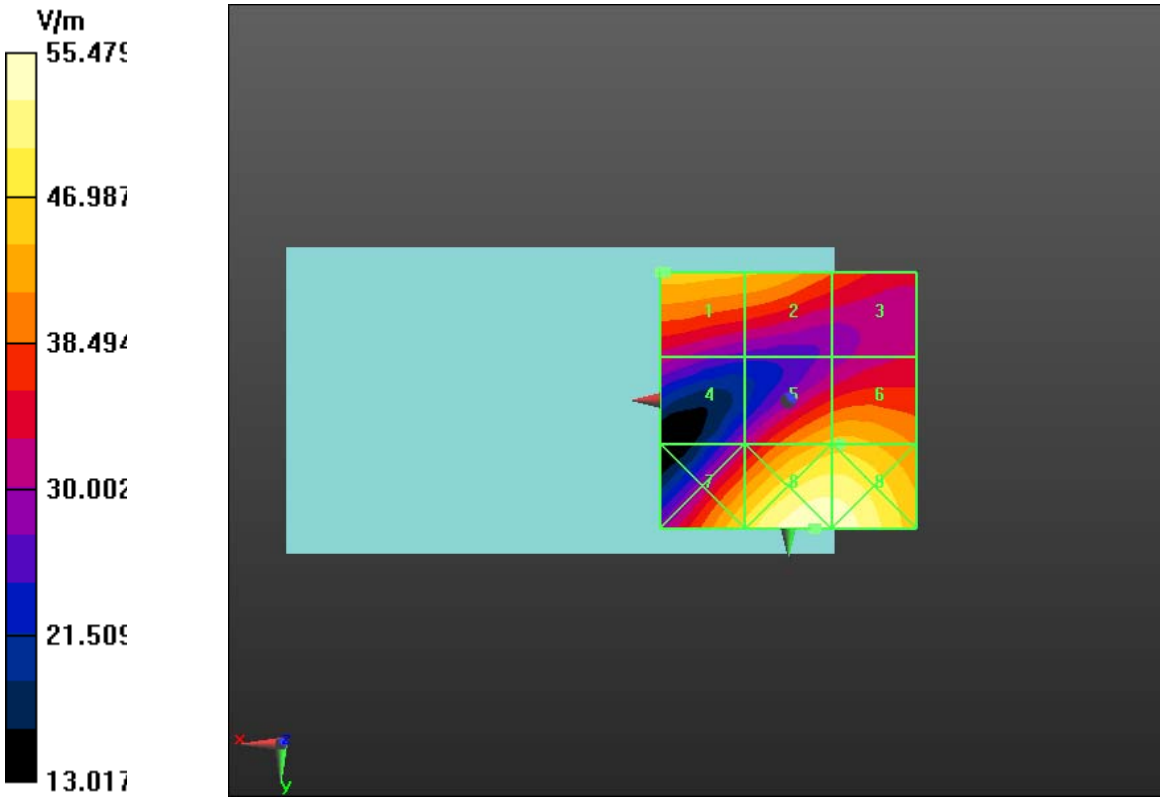
Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device_High_Chan/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 21.41 V/m; Power Drift = -0.09 dB
PMR not calibrated. PMF = 1.030 is applied.
E-field emissions = 36.53 V/m
Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 **M4** **36.53 V/m**	Grid 2 **M4** **35.22 V/m**	Grid 3 **M4** **28.21 V/m**
Grid 4 **M4** **21.50 V/m**	Grid 5 **M4** **35.94 V/m**	Grid 6 **M4** **36.46 V/m**
Grid 7 **M4** **39.96 V/m**	Grid 8 **M4** **52.96 V/m**	Grid 9 **M4** **51.77 V/m**

Cursor:
Total = 52.960 V/m
E Category: M4
Location: -5.5, 25, 8.7 mm



Date/Time: 9/28/2012 3:41:48 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_UMTS_Band_IV_Tcoil

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A8C7018

Communication System: WCDMA FDD IV; Frequency: 1732.6 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/9/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

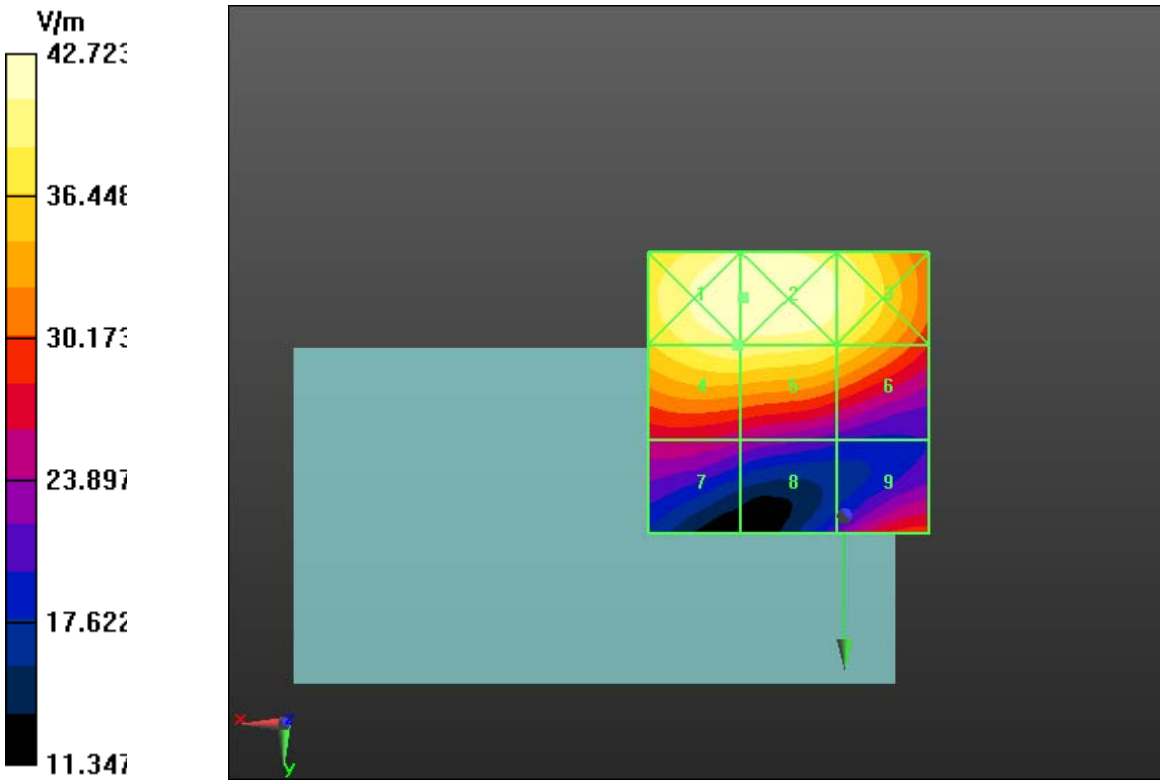
Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device_telecoil/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 21.16 V/m; Power Drift = 0.22 dB
PMR not calibrated. PMF = 1.030 is applied.
E-field emissions = 40.03 V/m
Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 **M4** **42.71 V/m**	Grid 2 **M4** **42.72 V/m**	Grid 3 **M4** **40.96 V/m**
Grid 4 **M4** **40.03 V/m**	Grid 5 **M4** **40.02 V/m**	Grid 6 **M4** **37.66 V/m**
Grid 7 **M4** **26.42 V/m**	Grid 8 **M4** **24.44 V/m**	Grid 9 **M4** **29.50 V/m**

Cursor:
Total = 42.723 V/m
E Category: M4
Location: 18, -39, 8.7 mm



Date/Time: 6/19/2012 5:21:23 AM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_GSM_850

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A211C01

Communication System: GSM 850; Frequency: 824.2 MHz, Frequency: 836.8 MHz, Frequency: 848.8 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/8/2011
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device_low_chan/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.07 V/m; Power Drift = -0.07 dB
PMR not calibrated. PMF = 2.940 is applied.
H-field emissions = 0.25 A/m
Near-field category: M4 (AWF -5 dB)

PMF scaled H-field

Grid 1 **M4** **0.35 A/m**	Grid 2 **M4** **0.25 A/m**	Grid 3 **M4** **0.17 A/m**
Grid 4 **M4** **0.33 A/m**	Grid 5 **M4** **0.24 A/m**	Grid 6 **M4** **0.16 A/m**
Grid 7 **M4** **0.34 A/m**	Grid 8 **M4** **0.24 A/m**	Grid 9 **M4** **0.15 A/m**

Cursor:

Total = 0.347 A/m
H Category: M4
Location: 25, -25, 8.7 mm

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device_mid_chan/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.08 V/m; Power Drift = 0.21 dB
PMR not calibrated. PMF = 2.940 is applied.
H-field emissions = 0.27 A/m
Near-field category: M4 (AWF -5 dB)

PMF scaled H-field

Grid 1 **M4** **0.36 A/m**	Grid 2 **M4** **0.27 A/m**	Grid 3 **M4** **0.18 A/m**
Grid 4 **M4** **0.35 A/m**	Grid 5 **M4** **0.26 A/m**	Grid 6 **M4** **0.17 A/m**
Grid 7 **M4** **0.37 A/m**	Grid 8 **M4** **0.26 A/m**	Grid 9 **M4** **0.17 A/m**

Cursor:

Total = 0.365 A/m
H Category: M4
Location: 25, 25, 8.7 mm

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device_high_chan/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.09 V/m; Power Drift = -0.00 dB
PMR not calibrated. PMF = 2.940 is applied.
H-field emissions = 0.32 A/m

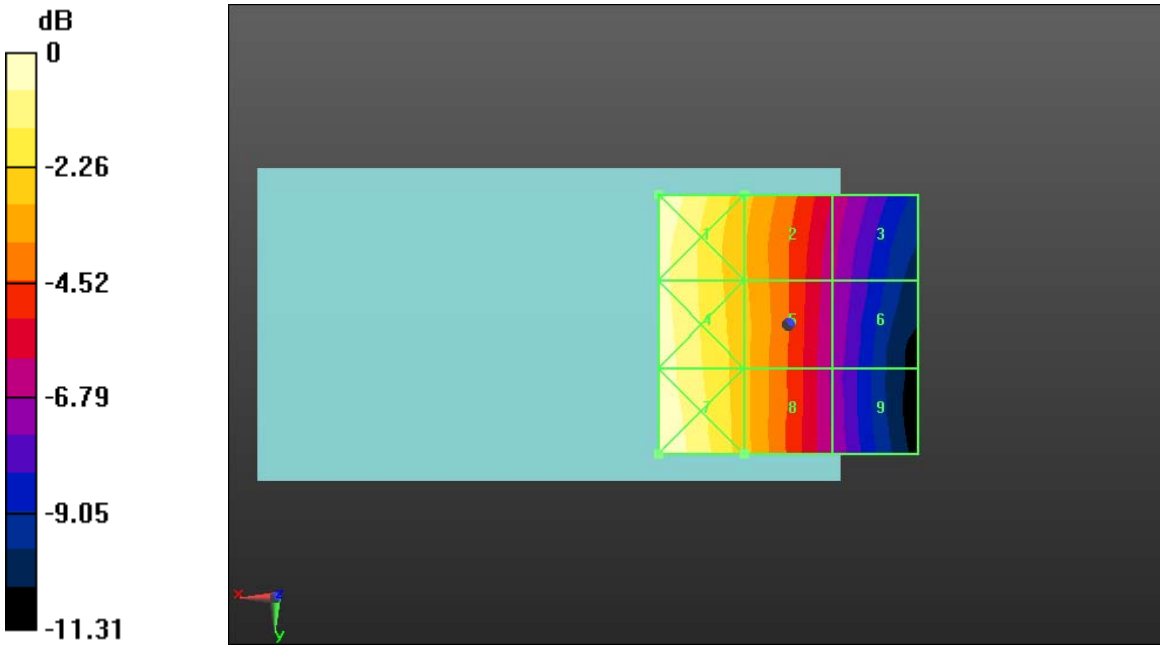
Near-field category: M4 (AWF -5 dB)

PMF scaled H-field

Grid 1 **M4** **0.39 A/m**	Grid 2 **M4** **0.29 A/m**	Grid 3 **M4** **0.19 A/m**
Grid 4 **M4** **0.40 A/m**	Grid 5 **M4** **0.30 A/m**	Grid 6 **M4** **0.20 A/m**
Grid 7 **M4** **0.43 A/m**	Grid 8 **M4** **0.32 A/m**	Grid 9 **M4** **0.22 A/m**

Cursor:

Total = 0.434 A/m
H Category: M4
Location: 25, 25, 8.7 mm



0 dB = 0.340A/m = -9.37 dB A/m

Date/Time: 6/28/2012 7:36:07 AM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_GSM_850_Tcoil

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A211C01

Communication System: GSM 850; Frequency: 848.8 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/8/2011
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

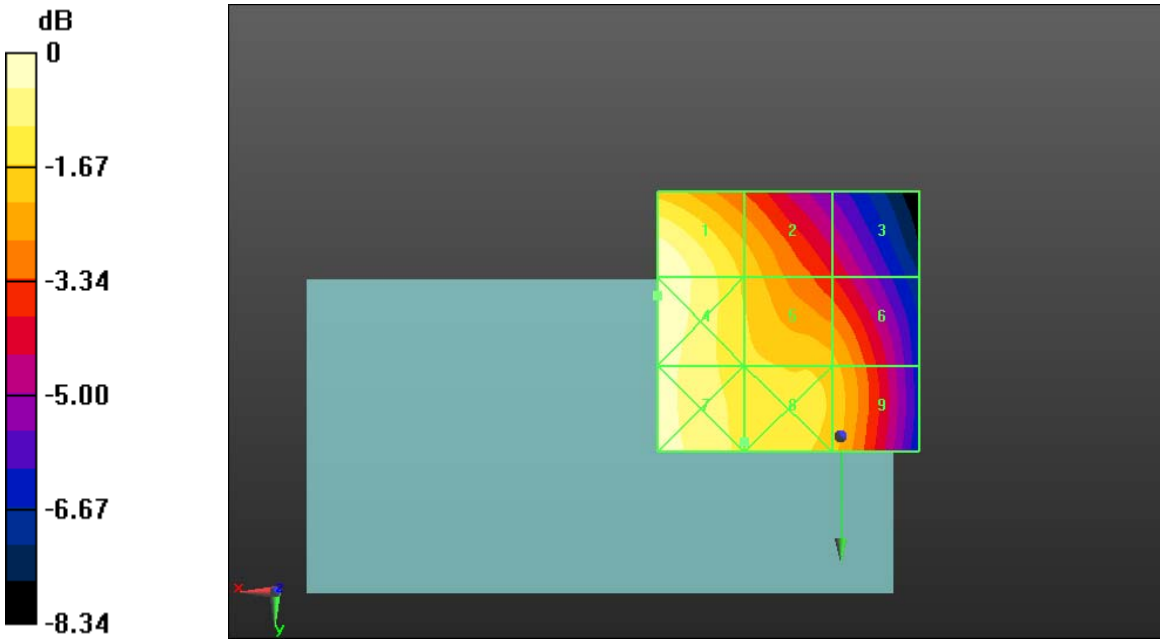
Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device_Centre_Telecoil/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.17 V/m; Power Drift = -0.18 dB
PMR not calibrated. PMF = 2.940 is applied.
H-field emissions = 0.48 A/m
Near-field category: M3 (AWF -5 dB)

PMF scaled H-field

Grid 1 **M3** **0.48 A/m**	Grid 2 **M4** **0.38 A/m**	Grid 3 **M4** **0.30 A/m**
Grid 4 **M3** **0.48 A/m**	Grid 5 **M4** **0.40 A/m**	Grid 6 **M4** **0.37 A/m**
Grid 7 **M3** **0.46 A/m**	Grid 8 **M4** **0.41 A/m**	Grid 9 **M4** **0.38 A/m**

Cursor:

Total = 0.481 A/m
H Category: M3
Location: 35, -27, 8.7 mm



0 dB = 0.470A/m = -6.56 dB A/m

Date/Time: 6/19/2012 6:17:36 AM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_UMTS_Band_V

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A211C01

Communication System: WCDMA FDD V; Frequency: 826.4 MHz, Frequency: 836.4 MHz, Frequency: 846.6 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/8/2011
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device_low_chan/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.08 V/m; Power Drift = -0.01 dB
PMR not calibrated. PMF = 1.090 is applied.
H-field emissions = 0.10 A/m
Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 **M4** **0.14 A/m**	Grid 2 **M4** **0.10 A/m**	Grid 3 **M4** **0.07 A/m**
Grid 4 **M4** **0.13 A/m**	Grid 5 **M4** **0.09 A/m**	Grid 6 **M4** **0.06 A/m**
Grid 7 **M4** **0.14 A/m**	Grid 8 **M4** **0.09 A/m**	Grid 9 **M4** **0.06 A/m**

Cursor:
Total = 0.143 A/m
H Category: M4
Location: 25, 25, 8.7 mm

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device_mid_chan/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.08 V/m; Power Drift = -0.17 dB
PMR not calibrated. PMF = 1.090 is applied.
H-field emissions = 0.10 A/m
Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 **M4** **0.13 A/m**	Grid 2 **M4** **0.10 A/m**	Grid 3 **M4** **0.07 A/m**
Grid 4 **M4** **0.13 A/m**	Grid 5 **M4** **0.10 A/m**	Grid 6 **M4** **0.06 A/m**
Grid 7 **M4** **0.13 A/m**	Grid 8 **M4** **0.10 A/m**	Grid 9 **M4** **0.06 A/m**

Cursor:
Total = 0.134 A/m
H Category: M4
Location: 25, 25, 8.7 mm

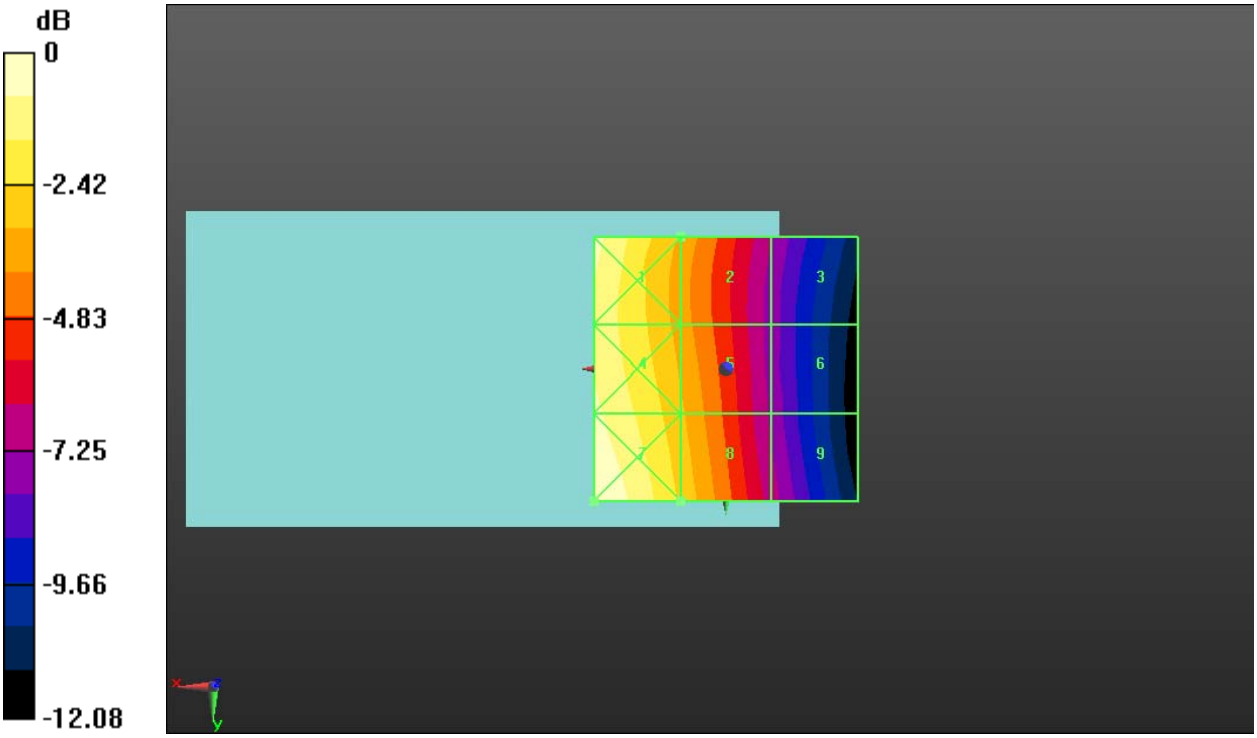
Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device_high_chan/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.08 V/m; Power Drift = 0.01 dB
PMR not calibrated. PMF = 1.090 is applied.
H-field emissions = 0.11 A/m
Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 **M4** **0.14 A/m**	Grid 2 **M4** **0.10 A/m**	Grid 3 **M4** **0.07 A/m**
Grid 4 **M4** **0.14 A/m**	Grid 5 **M4** **0.11 A/m**	Grid 6 **M4** **0.07 A/m**
Grid 7 **M4** **0.15 A/m**	Grid 8 **M4** **0.11 A/m**	Grid 9 **M4** **0.07 A/m**

Cursor:
Total = 0.153 A/m
H Category: M4
Location: 25, 25, 8.7 mm



0 dB = 0.140A/m = -17.08 dB A/m

Date/Time: 6/28/2012 7:58:29 AM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_UMTS_Band_V_Tcoil

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A211C01

Communication System: WCDMA FDD V; Frequency: 846.6 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

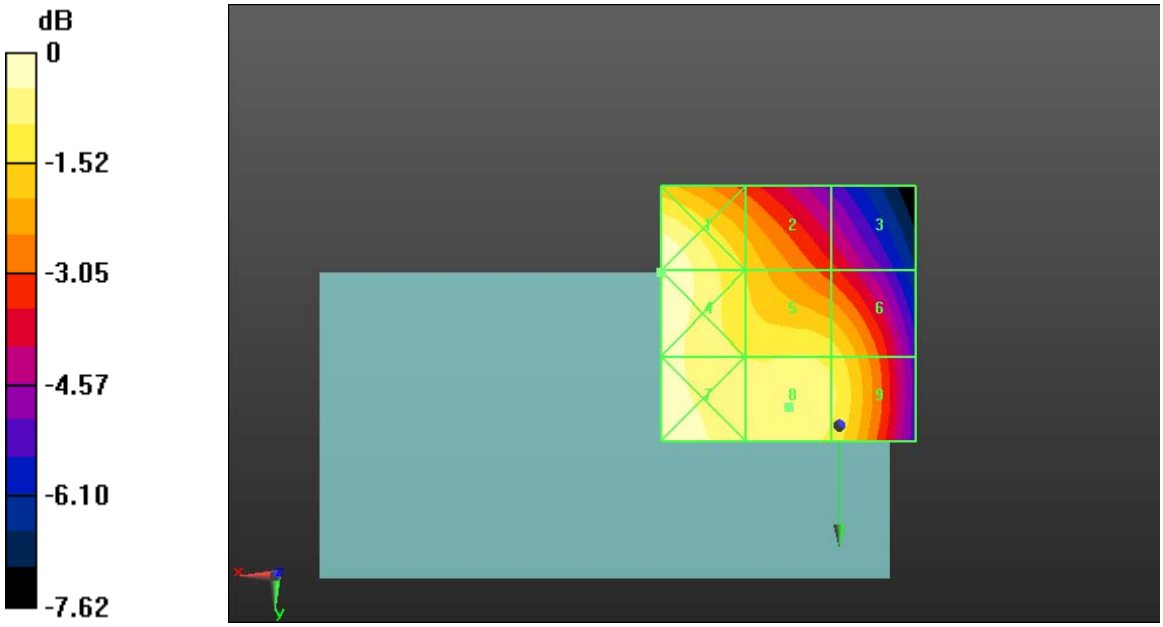
- Probe: H3DV6 - SN6105; ; Calibrated: 11/8/2011
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device_Centre_Telecoil/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.16 V/m; Power Drift = 0.03 dB
PMR not calibrated. PMF = 1.090 is applied.
H-field emissions = 0.14 A/m
Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 **M4** **0.15 A/m**	Grid 2 **M4** **0.13 A/m**	Grid 3 **M4** **0.10 A/m**
Grid 4 **M4** **0.15 A/m**	Grid 5 **M4** **0.13 A/m**	Grid 6 **M4** **0.13 A/m**
Grid 7 **M4** **0.15 A/m**	Grid 8 **M4** **0.14 A/m**	Grid 9 **M4** **0.14 A/m**

Cursor:
Total = 0.150 A/m
H Category: M4
Location: 35, -30, 8.7 mm



0 dB = 0.150A/m = -16.48 dB A/m

Date/Time: 6/19/2012 5:39:30 AM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_GSM_1900

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A211C01

Communication System: GSM 1900; Frequency: 1850.2 MHz, Frequency: 1880 MHz, Frequency: 1909.8 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/8/2011
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device_low_chan/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.06 V/m; Power Drift = 0.12 dB
PMR not calibrated. PMF = 2.920 is applied.
H-field emissions = 0.16 A/m
Near-field category: M3 (AWF -5 dB)

PMF scaled H-field

Grid 1 **M3** **0.15 A/m**	Grid 2 **M3** **0.16 A/m**	Grid 3 **M3** **0.16 A/m**
Grid 4 **M4** **0.14 A/m**	Grid 5 **M3** **0.16 A/m**	Grid 6 **M3** **0.16 A/m**
Grid 7 **M3** **0.18 A/m**	Grid 8 **M3** **0.16 A/m**	Grid 9 **M4** **0.14 A/m**

Cursor:

Total = 0.179 A/m
H Category: M3
Location: 25, 25, 8.7 mm

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device_mid_chan/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.06 V/m; Power Drift = 0.15 dB
PMR not calibrated. PMF = 2.920 is applied.
H-field emissions = 0.15 A/m
Near-field category: M3 (AWF -5 dB)

PMF scaled H-field

Grid 1 **M3** **0.15 A/m**	Grid 2 **M3** **0.15 A/m**	Grid 3 **M3** **0.15 A/m**
Grid 4 **M4** **0.13 A/m**	Grid 5 **M3** **0.15 A/m**	Grid 6 **M3** **0.15 A/m**
Grid 7 **M3** **0.16 A/m**	Grid 8 **M3** **0.15 A/m**	Grid 9 **M3** **0.14 A/m**

Cursor:

Total = 0.160 A/m
H Category: M3
Location: 25, 25, 8.7 mm

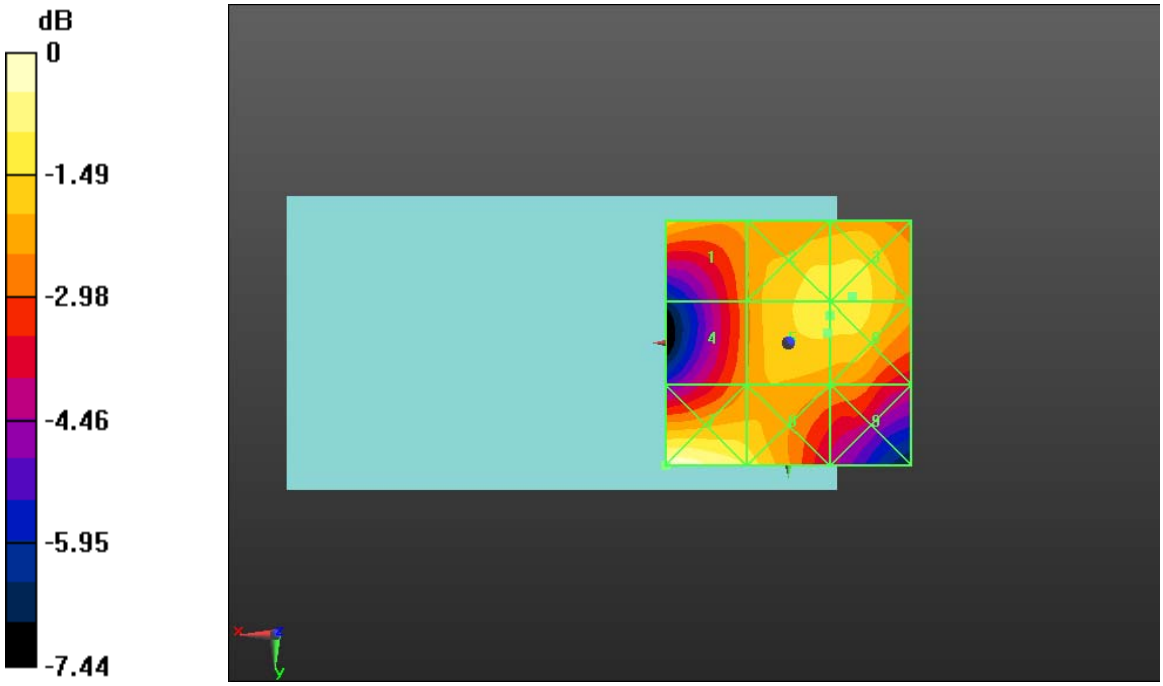
Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device_high_chan/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.07 V/m; Power Drift = 0.17 dB
PMR not calibrated. PMF = 2.920 is applied.
H-field emissions = 0.17 A/m
Near-field category: M3 (AWF -5 dB)

PMF scaled H-field

Grid 1 **M3** **0.15 A/m**	Grid 2 **M3** **0.17 A/m**	Grid 3 **M3** **0.17 A/m**
Grid 4 **M3** **0.14 A/m**	Grid 5 **M3** **0.17 A/m**	Grid 6 **M3** **0.17 A/m**
Grid 7 **M3** **0.16 A/m**	Grid 8 **M3** **0.16 A/m**	Grid 9 **M3** **0.16 A/m**

Cursor:

Total = 0.174 A/m
H Category: M3
Location: -8, -2, 8.7 mm



0 dB = 0.180A/m = -14.89 dB A/m

Date/Time: 6/28/2012 7:43:32 AM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_GSM_1900_Tcoil

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A211C01

Communication System: GSM 1900; Frequency: 1909.8 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/8/2011
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

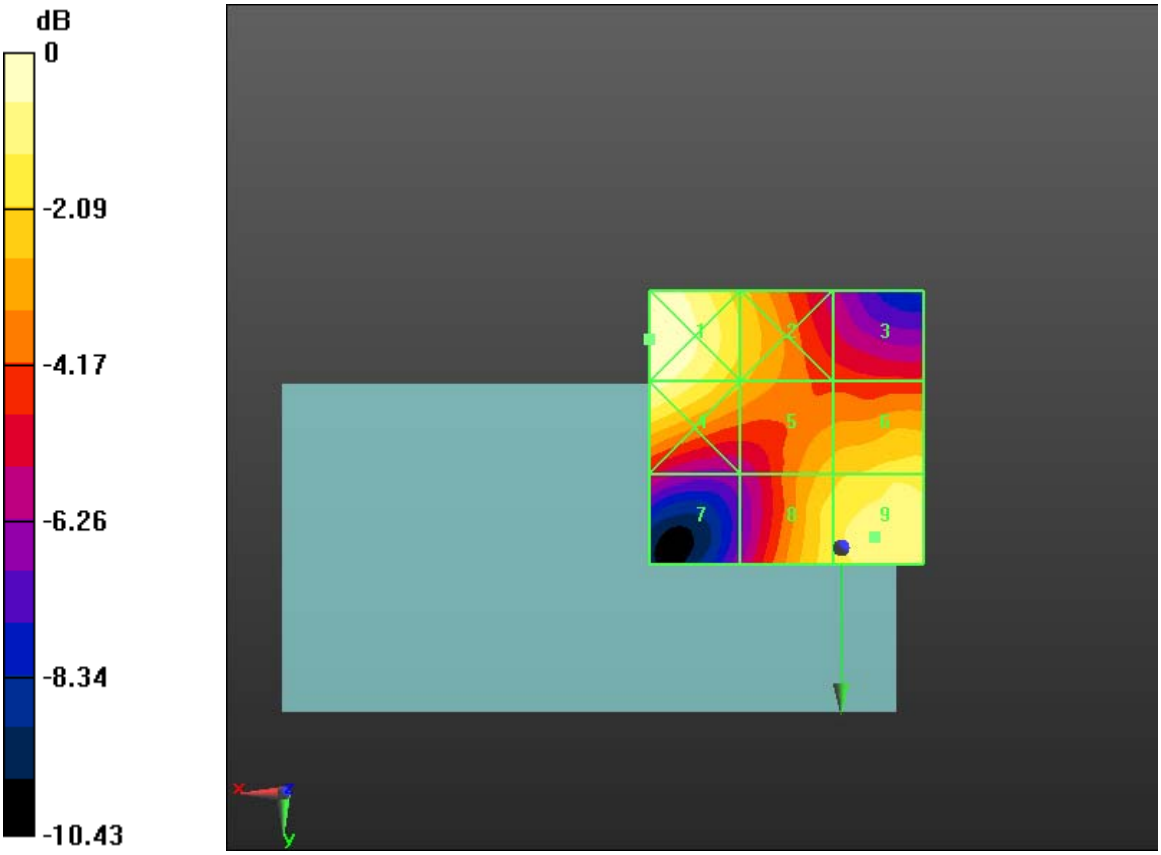
Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device_Centre_Telecoil/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.07 V/m; Power Drift = 0.35 dB
PMR not calibrated. PMF = 2.970 is applied.
H-field emissions = 0.18 A/m
Near-field category: M3 (AWF -5 dB)

PMF scaled H-field

Grid 1 **M3** **0.21 A/m**	Grid 2 **M3** **0.16 A/m**	Grid 3 **M4** **0.12 A/m**
Grid 4 **M3** **0.20 A/m**	Grid 5 **M3** **0.15 A/m**	Grid 6 **M3** **0.17 A/m**
Grid 7 **M4** **0.11 A/m**	Grid 8 **M3** **0.17 A/m**	Grid 9 **M3** **0.18 A/m**

Cursor:

Total = 0.209 A/m
H Category: M3
Location: 35, -38, 8.7 mm



0 dB = 0.200A/m = -13.98 dB A/m

Date/Time: 6/19/2012 5:58:06 AM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_UMTS_Band_II

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A211C01

Communication System: WCDMA FDD II; Frequency: 1852.4 MHz, Frequency: 1880 MHz, Frequency: 1907.6 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/8/2011
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device_low_chan/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.10 V/m; Power Drift = -0.04 dB
PMR not calibrated. PMF = 1.000 is applied.
H-field emissions = 0.09 A/m
Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 **M4** **0.09 A/m**	Grid 2 **M4** **0.09 A/m**	Grid 3 **M4** **0.08 A/m**
Grid 4 **M4** **0.07 A/m**	Grid 5 **M4** **0.09 A/m**	Grid 6 **M4** **0.08 A/m**
Grid 7 **M4** **0.08 A/m**	Grid 8 **M4** **0.07 A/m**	Grid 9 **M4** **0.07 A/m**

Cursor:
Total = 0.088 A/m
H Category: M4
Location: 25, -25, 8.7 mm

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device_mid_chan/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.10 V/m; Power Drift = 0.04 dB
PMR not calibrated. PMF = 1.000 is applied.
H-field emissions = 0.09 A/m
Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 **M4** **0.08 A/m**	Grid 2 **M4** **0.09 A/m**	Grid 3 **M4** **0.09 A/m**
Grid 4 **M4** **0.08 A/m**	Grid 5 **M4** **0.09 A/m**	Grid 6 **M4** **0.09 A/m**
Grid 7 **M4** **0.09 A/m**	Grid 8 **M4** **0.08 A/m**	Grid 9 **M4** **0.08 A/m**

Cursor:
Total = 0.088 A/m
H Category: M4
Location: 25, 25, 8.7 mm

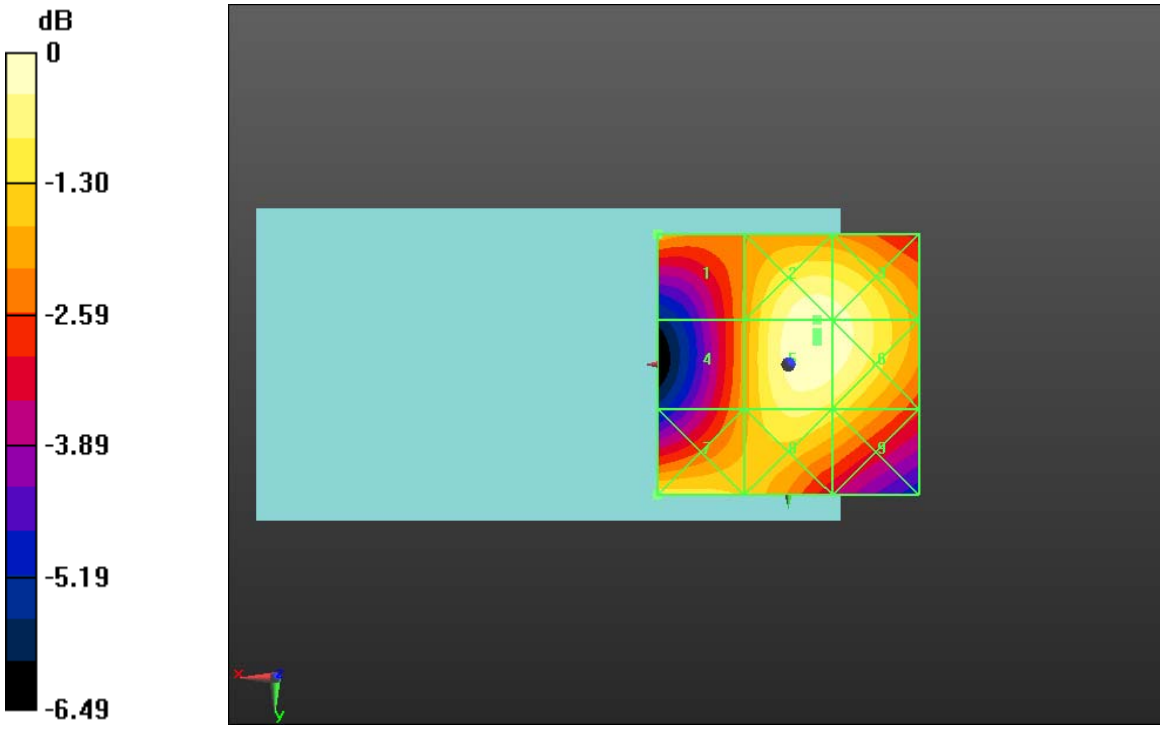
Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device_high_chan/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.11 V/m; Power Drift = -0.00 dB
PMR not calibrated. PMF = 1.000 is applied.
H-field emissions = 0.09 A/m
Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 **M4** **0.08 A/m**	Grid 2 **M4** **0.09 A/m**	Grid 3 **M4** **0.09 A/m**
Grid 4 **M4** **0.08 A/m**	Grid 5 **M4** **0.09 A/m**	Grid 6 **M4** **0.09 A/m**
Grid 7 **M4** **0.08 A/m**	Grid 8 **M4** **0.09 A/m**	Grid 9 **M4** **0.08 A/m**

Cursor:
Total = 0.092 A/m
H Category: M4
Location: -5.5, -4.5, 8.7 mm



0 dB = 0.090A/m = -20.92 dB A/m

Date/Time: 6/28/2012 7:50:29 AM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_UMTS_Band_II_Tcoil

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A211C01

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

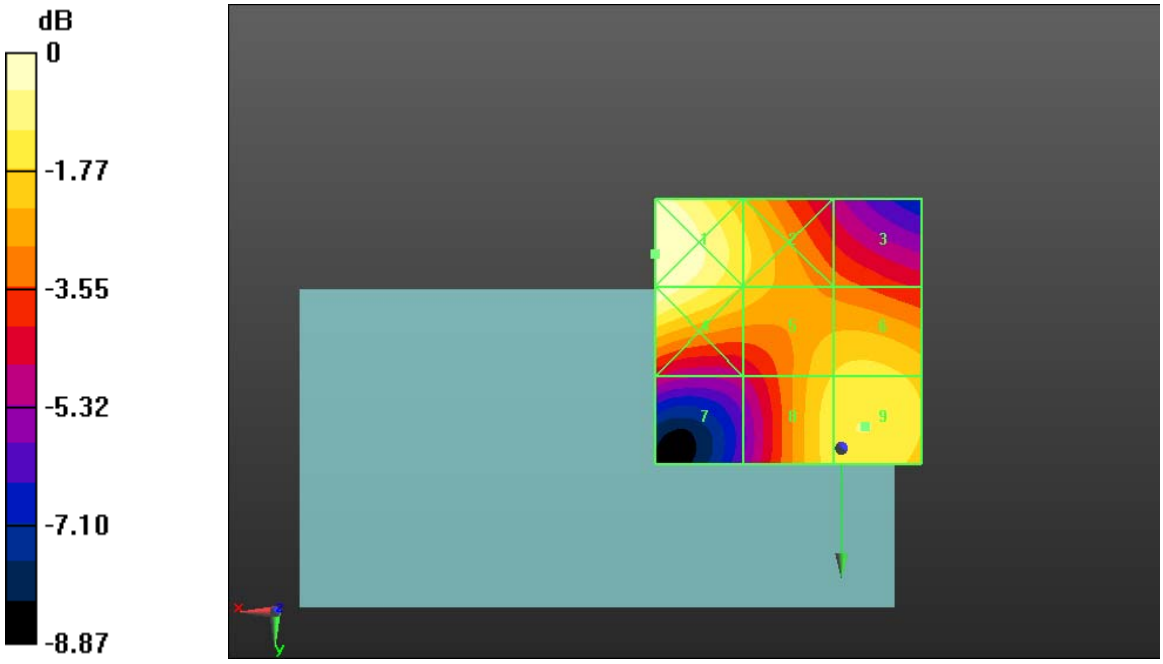
- Probe: H3DV6 - SN6105; ; Calibrated: 11/8/2011
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device_Centre_Telecoil/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.11 V/m; Power Drift = -0.20 dB
PMR not calibrated. PMF = 1.000 is applied.
H-field emissions = 0.09 A/m
Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 **M4** **0.10 A/m**	Grid 2 **M4** **0.08 A/m**	Grid 3 **M4** **0.07 A/m**
Grid 4 **M4** **0.10 A/m**	Grid 5 **M4** **0.08 A/m**	Grid 6 **M4** **0.08 A/m**
Grid 7 **M4** **0.06 A/m**	Grid 8 **M4** **0.08 A/m**	Grid 9 **M4** **0.09 A/m**

Cursor:
Total = 0.104 A/m
H Category: M4
Location: 35, -36.5, 8.7 mm



0 dB = 0.100A/m = -20.00 dB A/m

Date/Time: 9/28/2012 5:35:16 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_GSM_850

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A8C7018

Communication System: GSM 850; Frequency: 848.8 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

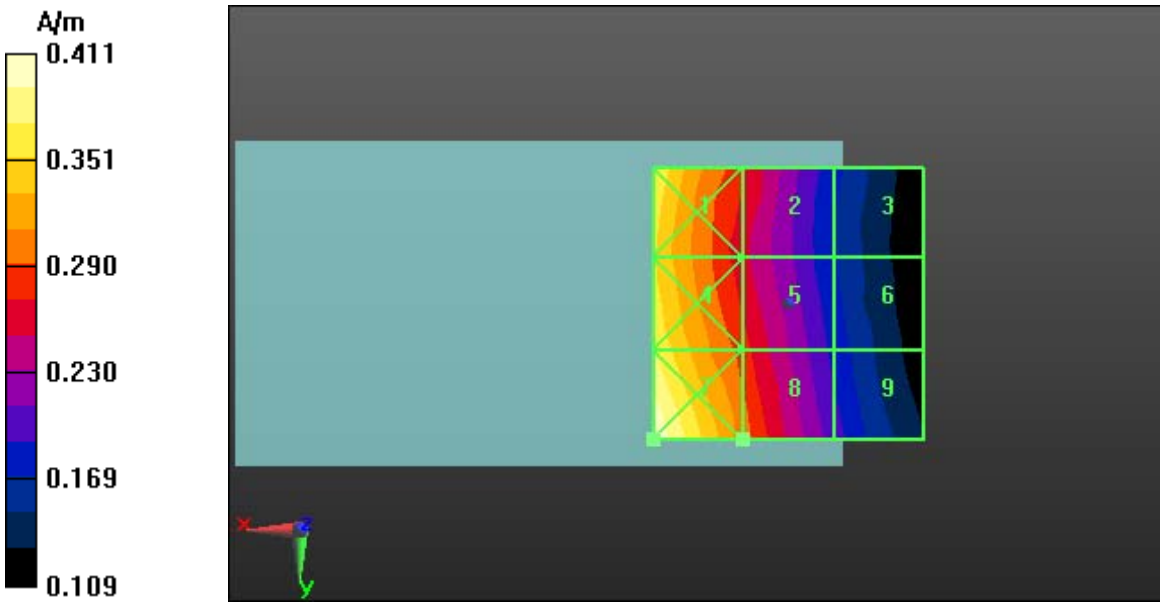
- Probe: H3DV6 - SN6105; ; Calibrated: 11/8/2011
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device_high_chan/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.08 V/m; Power Drift = -0.04 dB
PMR not calibrated. PMF = 2.940 is applied.
H-field emissions = 0.30 A/m
Near-field category: M4 (AWF -5 dB)

PMF scaled H-field

Grid 1 **M4** **0.38 A/m**	Grid 2 **M4** **0.27 A/m**	Grid 3 **M4** **0.18 A/m**
Grid 4 **M4** **0.37 A/m**	Grid 5 **M4** **0.28 A/m**	Grid 6 **M4** **0.18 A/m**
Grid 7 **M4**	Grid 8 **M4**	Grid 9 **M4**

0.41 A/m	**0.30 A/m**	**0.20 A/m**



Date/Time: 9/28/2012 5:25:37 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_UMTS_Band_V_Tcoil

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A8C7018

Communication System: WCDMA FDD V; Frequency: 846.6 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/8/2011
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

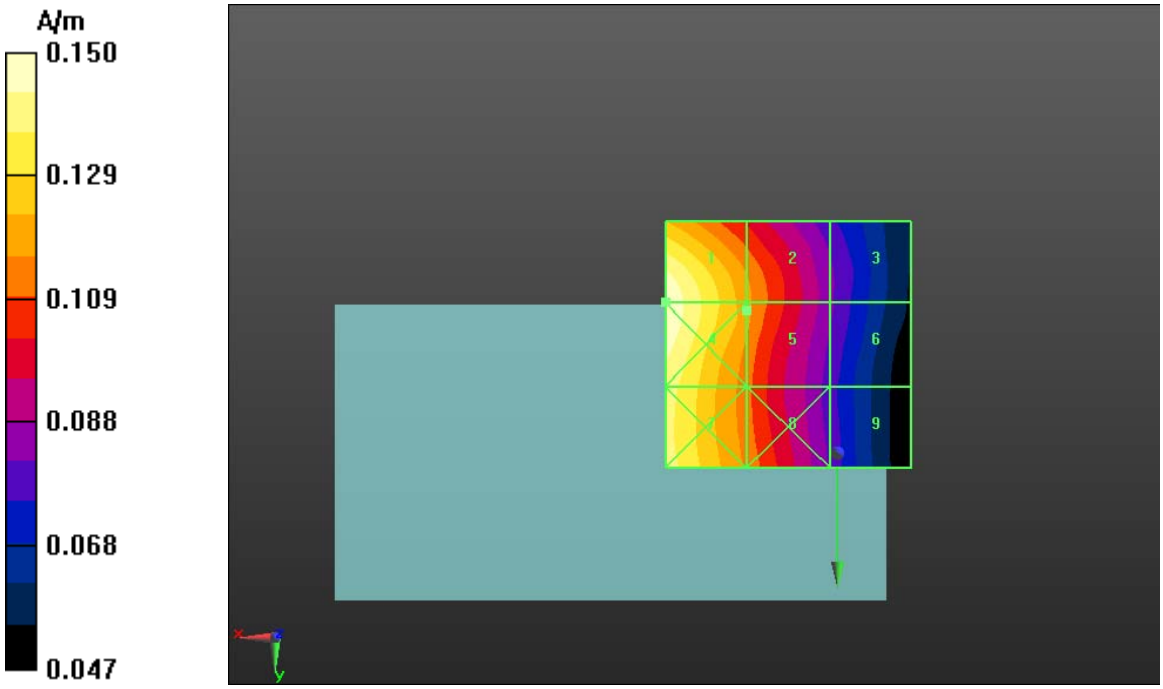
Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device_Centre_Telecoil/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.07 V/m; Power Drift = 0.14 dB
PMR not calibrated. PMF = 1.090 is applied.
H-field emissions = 0.15 A/m
Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 **M4** **0.15 A/m**	Grid 2 **M4** **0.12 A/m**	Grid 3 **M4** **0.08 A/m**
Grid 4 **M4** **0.15 A/m**	Grid 5 **M4** **0.12 A/m**	Grid 6 **M4** **0.08 A/m**
Grid 7 **M4**	Grid 8 **M4**	Grid 9 **M4**

0.14 A/m	**0.11 A/m**	**0.08 A/m**

Cursor:
Total = 0.150 A/m
H Category: M4
Location: 35, -30.5, 8.7 mm



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Test Laboratory: RIM Testing Services

HAC RF_H-Field_GSM_1900_Tcoil

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A8C7018

Communication System: GSM 1900; Frequency: 1909.8 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/8/2011
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device_Centre_Telecoil/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.06 V/m; Power Drift = 0.08 dB
PMR not calibrated. PMF = 2.970 is applied.
H-field emissions = 0.16 A/m
Near-field category: M3 (AWF -5 dB)

PMF scaled H-field

Grid 1 **M3** **0.18 A/m**	Grid 2 **M3** **0.15 A/m**	Grid 3 **M4** **0.12 A/m**
Grid 4 **M3** **0.17 A/m**	Grid 5 **M3** **0.14 A/m**	Grid 6 **M3** **0.15 A/m**
Grid 7 **M4**	Grid 8 **M3**	Grid 9 **M3**

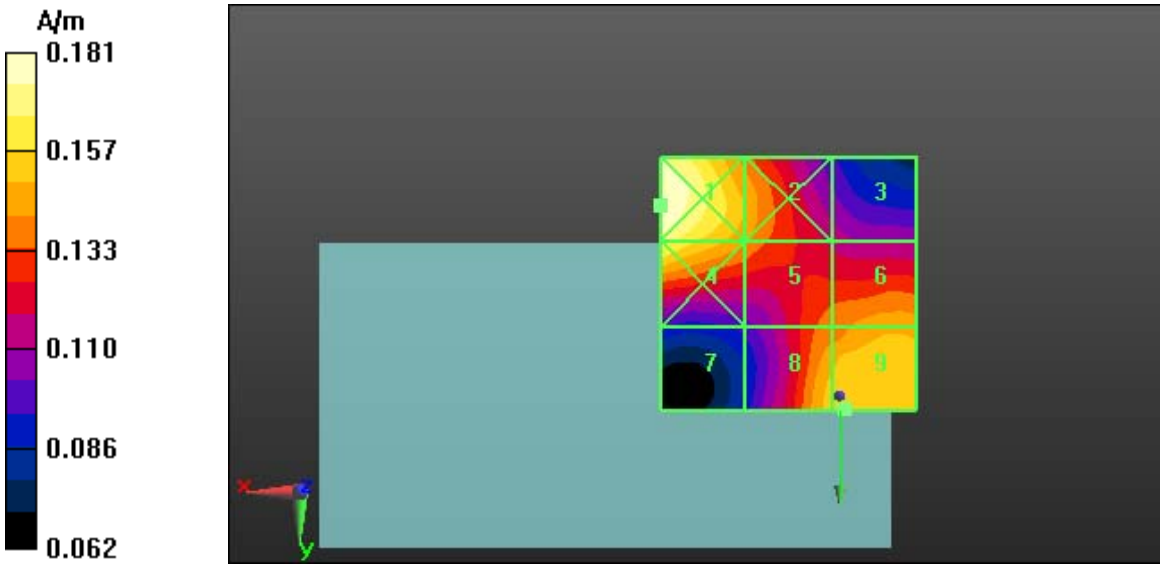
0.10 A/m	0.15 A/m	0.16 A/m

Category	AWF	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
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	0.14 - 0.25
M4	0	<63.1	<0.19
	-5	<47.3	<0.14

Category	AWF	Limits for E-Field Emissions (V/m) < 960MHz	Limits for H-Field Emissions (A/m) < 960 MHz
M1	0	631 - 1122	1.91 - 3.39
	-5	473.2 - 841.4	1.43 - 2.54
M2	0	354.8 - 631	1.07 - 1.91
	-5	266.1 - 473.2	0.8 - 1.43
M3	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M4	0	<199.5	<0.6
	-5	<149.6	<0.45

Cursor:

Total = 0.181 A/m
H Category: M3
Location: 35, -37.5, 8.7 mm



Date/Time: 9/28/2012 4:56:16 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_UMTS_Band_II_Tcoil

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A8C7018

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/8/2011
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

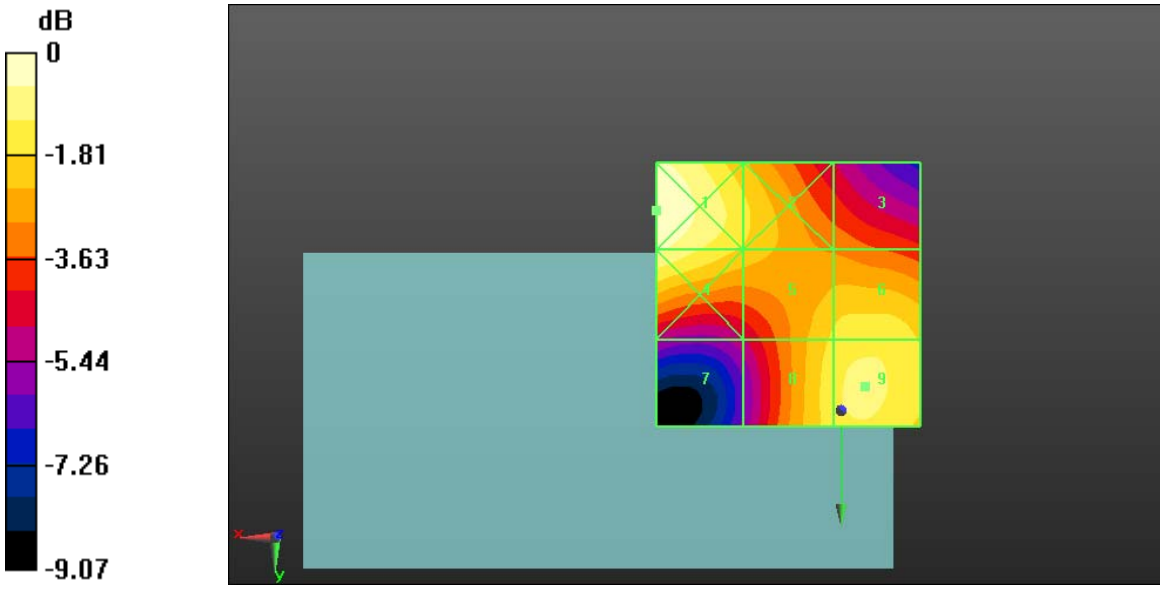
Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device_Centre_Telecoil/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.10 V/m; Power Drift = -0.01 dB
PMR not calibrated. PMF = 1.000 is applied.
H-field emissions = 0.09 A/m
Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 **M4** **0.10 A/m**	Grid 2 **M4** **0.08 A/m**	Grid 3 **M4** **0.07 A/m**
Grid 4 **M4** **0.10 A/m**	Grid 5 **M4** **0.08 A/m**	Grid 6 **M4** **0.09 A/m**
Grid 7 **M4**	Grid 8 **M4**	Grid 9 **M4**

0.06 A/m	**0.09 A/m**	**0.09 A/m**

Cursor:
Total = 0.102 A/m
H Category: M4
Location: 35, -38, 8.7 mm



0 dB = 0.100A/m = -20.00 dB A/m

Date/Time: 9/28/2012 5:02:56 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_UMTS_Band_IV

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A8C7018

Communication System: WCDMA FDD IV; Frequency: 1712.4 MHz, Frequency: 1732.6 MHz, Frequency: 1752.6 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/8/2011
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device_low_chan/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.13 V/m; Power Drift = -0.06 dB
PMR not calibrated. PMF = 1.000 is applied.
H-field emissions = 0.12 A/m
Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 **M4** **0.11 A/m**	Grid 2 **M4** **0.12 A/m**	Grid 3 **M4** **0.11 A/m**
Grid 4 **M4** **0.11 A/m**	Grid 5 **M4** **0.12 A/m**	Grid 6 **M4** **0.11 A/m**
Grid 7 **M4**	Grid 8 **M4**	Grid 9 **M4**

0.13 A/m	**0.11 A/m**	**0.10 A/m**

Cursor:
Total = 0.132 A/m
H Category: M4
Location: 25, 25, 8.7 mm

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

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.14 V/m; Power Drift = -0.14 dB
PMR not calibrated. PMF = 1.000 is applied.
H-field emissions = 0.12 A/m
Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 **M4** **0.11 A/m**	Grid 2 **M4** **0.12 A/m**	Grid 3 **M4** **0.12 A/m**
Grid 4 **M4** **0.11 A/m**	Grid 5 **M4** **0.12 A/m**	Grid 6 **M4** **0.12 A/m**
Grid 7 **M4** **0.13 A/m**	Grid 8 **M4** **0.11 A/m**	Grid 9 **M4** **0.10 A/m**

Cursor:
Total = 0.126 A/m
H Category: M4
Location: 25, 25, 8.7 mm

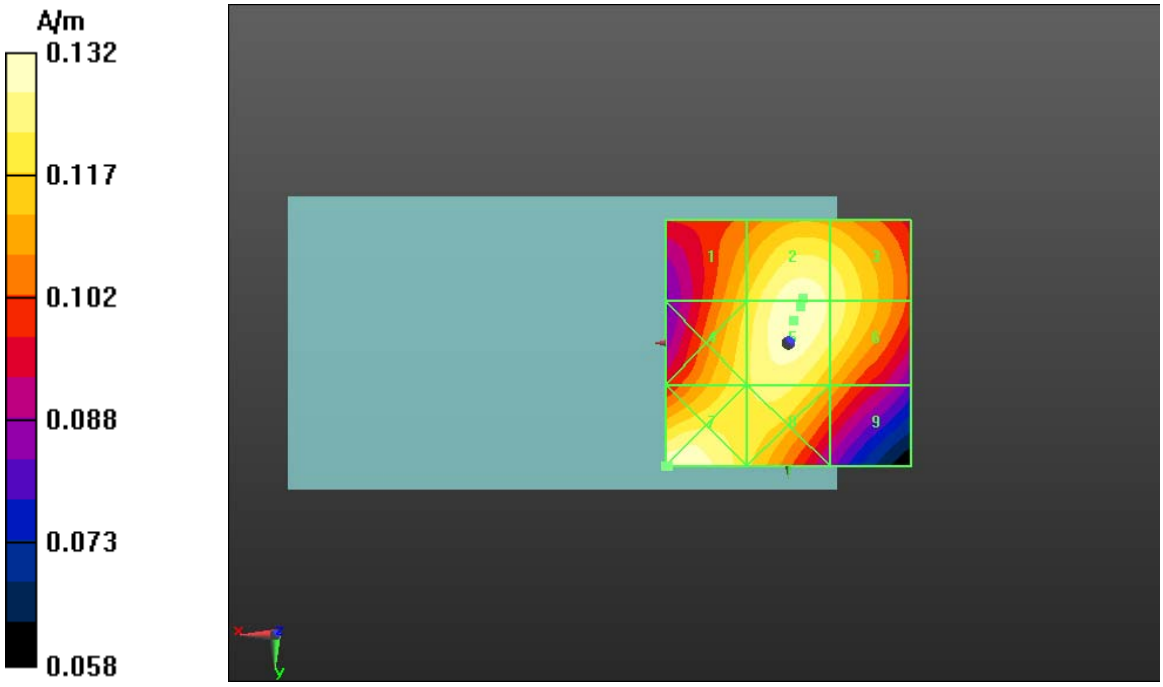
Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device_high_chan/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.14 V/m; Power Drift = -0.16 dB
PMR not calibrated. PMF = 1.000 is applied.
H-field emissions = 0.12 A/m
Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 **M4** **0.11 A/m**	Grid 2 **M4** **0.12 A/m**	Grid 3 **M4** **0.12 A/m**
Grid 4 **M4** **0.11 A/m**	Grid 5 **M4** **0.12 A/m**	Grid 6 **M4** **0.12 A/m**
Grid 7 **M4** **0.12 A/m**	Grid 8 **M4** **0.12 A/m**	Grid 9 **M4** **0.10 A/m**

Cursor:
Total = 0.122 A/m
H Category: M4
Location: 24.5, 25, 8.7 mm



Date/Time: 9/28/2012 5:14:56 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_UMTS_Band_IV

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A8C7018

Communication System: WCDMA FDD IV; Frequency: 1712.4 MHz
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/8/2011
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device_Centre_Telecoil/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.13 V/m; Power Drift = -0.04 dB
PMR not calibrated. PMF = 1.000 is applied.
H-field emissions = 0.12 A/m
Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 **M4** **0.12 A/m**	Grid 2 **M4** **0.10 A/m**	Grid 3 **M4** **0.10 A/m**
Grid 4 **M4** **0.11 A/m**	Grid 5 **M4** **0.12 A/m**	Grid 6 **M4** **0.12 A/m**
Grid 7 **M4**	Grid 8 **M4**	Grid 9 **M4**

0.10 A/m	**0.12 A/m**	**0.12 A/m**

Cursor:
Total = 0.118 A/m
H Category: M4
Location: 0, -6.5, 8.7 mm