

Test Laboratory: UL CCS

HAC RF Emission

Communication System: GSM850; Frequency: 824.2 MHz; Duty Cycle: 1:8.00018

Phantom section: TCoil Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2011

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1239; Calibrated: 11/17/2010

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB

- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

GSM850_E Scan/L ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 162.7 V/m

Probe Modulation Factor = 2.670

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 71.703 V/m; Power Drift = -0.04 dB

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

Peak E-field in V/m

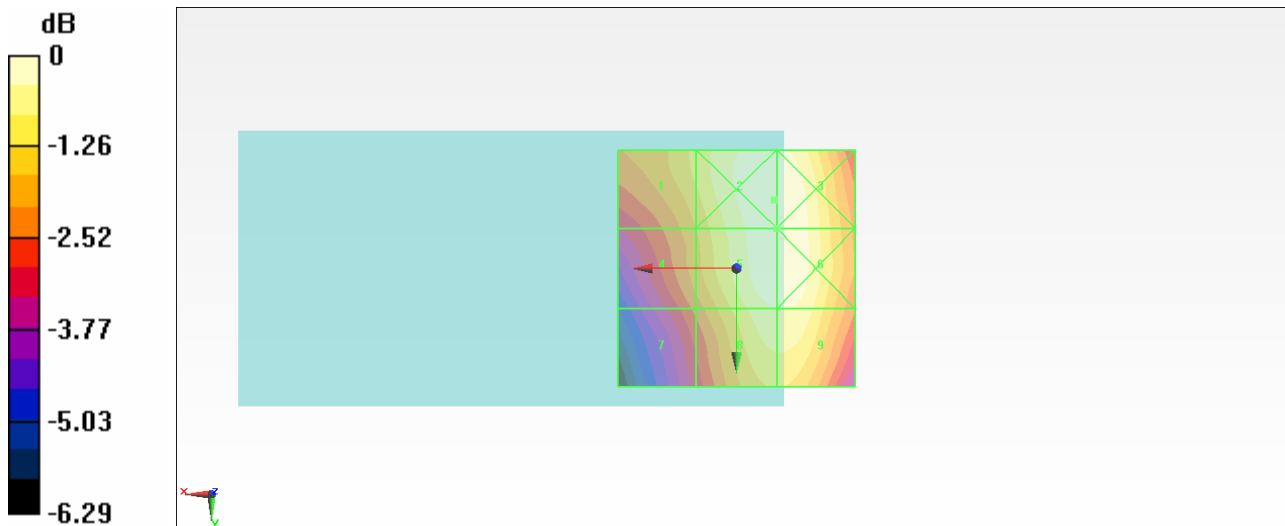
Grid 1 143.9 M4	Grid 2 163.6 M3	Grid 3 163.5 M3
Grid 4 135.3 M4	Grid 5 162.7 M3	Grid 6 162.7 M3
Grid 7 124.7 M4	Grid 8 155.8 M3	Grid 9 155.9 M3

Cursor:

Total = 163.6 V/m

E Category: M3

Location: -8, -14.5, 8.7 mm



Test Laboratory: UL CCS

HAC RF Emission

Communication System: GSM850; Frequency: 836.6 MHz; Duty Cycle: 1:8.00018

Phantom section: TCoil Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2011

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1239; Calibrated: 11/17/2010

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB

- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

GSM850_E Scan/M ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 180.7 V/m

Probe Modulation Factor = 2.670

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 79.879 V/m; Power Drift = -0.04 dB

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

Peak E-field in V/m

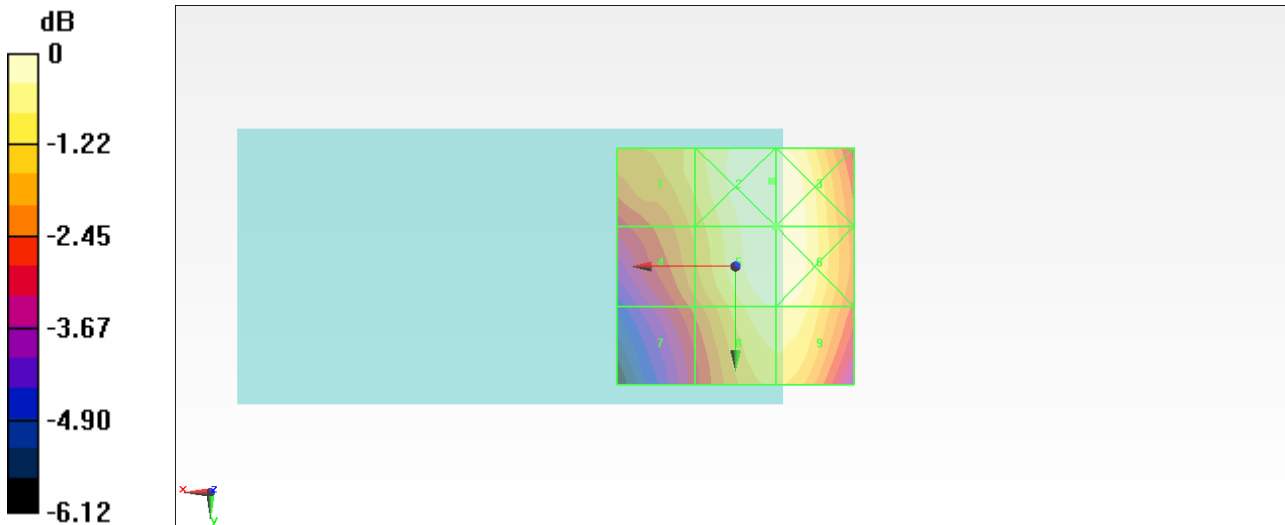
Grid 1 161.4 M3	Grid 2 181.0 M3	Grid 3 181.0 M3
Grid 4 152.6 M3	Grid 5 180.7 M3	Grid 6 180.7 M3
Grid 7 139.7 M4	Grid 8 173.3 M3	Grid 9 173.3 M3

Cursor:

Total = 181.0 V/m

E Category: M3

Location: -7.5, -18, 8.7 mm



0 dB = 181.0V/m

Test Laboratory: UL CCS

HAC RF Emission

Communication System: GSM850; Frequency: 848.8 MHz; Duty Cycle: 1:8.00018

Phantom section: TCoil Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1239; Calibrated: 11/17/2010
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

GSM850_E Scan/H ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 196.3 V/m

Probe Modulation Factor = 2.670

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 87.363 V/m; Power Drift = -0.0054 dB

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

Peak E-field in V/m

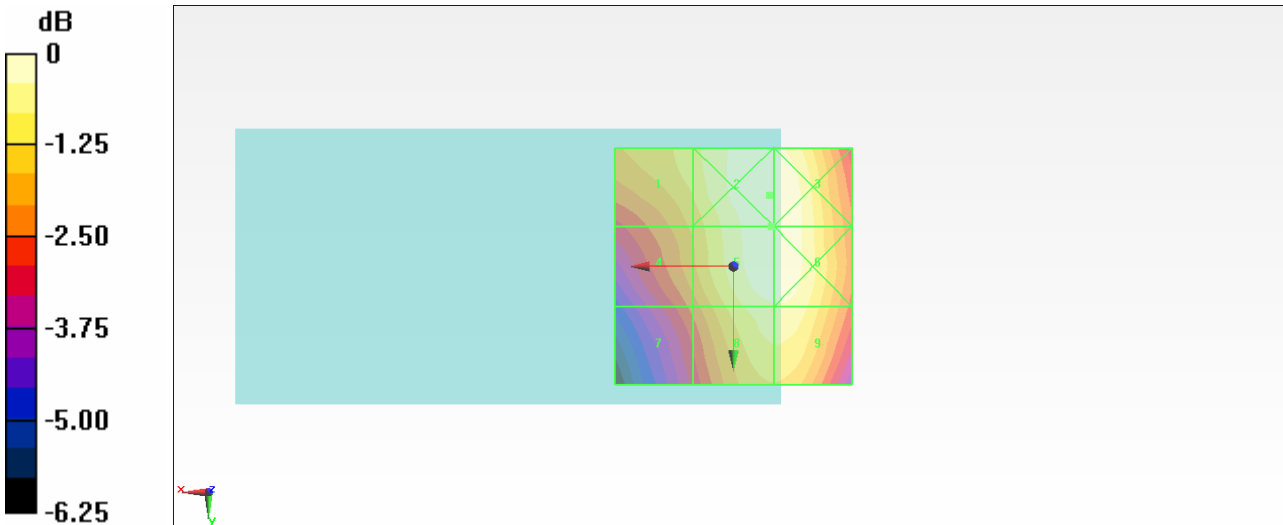
Grid 1 176.7 M3	Grid 2 197.7 M3	Grid 3 197.5 M3
Grid 4 165.6 M3	Grid 5 196.3 M3	Grid 6 196.3 M3
Grid 7 151.5 M3	Grid 8 187.4 M3	Grid 9 187.5 M3

Cursor:

Total = 197.7 V/m

E Category: M3

Location: -7.5, -15, 8.7 mm



0 dB = 197.7V/m

Test Laboratory: UL CCS

HAC RF Emission

Communication System: GSM1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.00018

Phantom section: TCoil Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2011

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1239; Calibrated: 11/17/2010

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB

- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

GSM1900_E Scan/L ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 66.331 V/m

Probe Modulation Factor = 2.600

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 21.216 V/m; Power Drift = -0.03 dB

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

Peak E-field in V/m

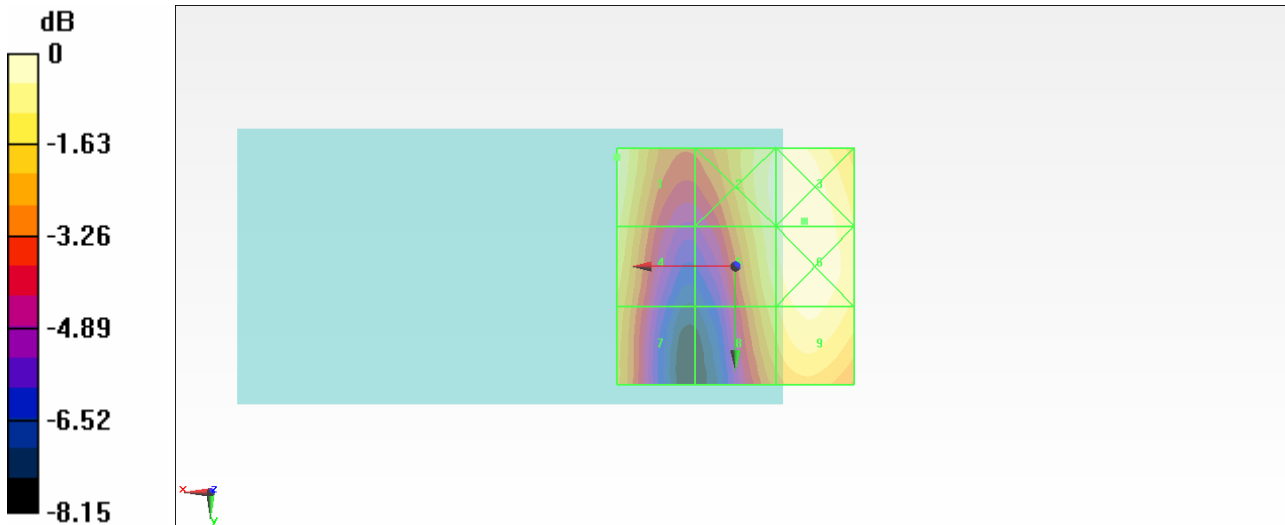
Grid 1 66.331 M3	Grid 2 66.037 M3	Grid 3 68.481 M3
Grid 4 61.922 M3	Grid 5 64.812 M3	Grid 6 68.433 M3
Grid 7 56.181 M3	Grid 8 59.734 M3	Grid 9 65.539 M3

Cursor:

Total = 68.480 V/m

E Category: M3

Location: -14.5, -9.5, 8.7 mm



0 dB = 68.480V/m

Test Laboratory: UL CCS

HAC RF Emission

Communication System: GSM1900; Frequency: 1880 MHz; Duty Cycle: 1:8.00018

Phantom section: TCoil Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2011

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1239; Calibrated: 11/17/2010

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB

- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

GSM1900_E Scan/M ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 63.173 V/m

Probe Modulation Factor = 2.600

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 19.693 V/m; Power Drift = 0.05 dB

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

Peak E-field in V/m

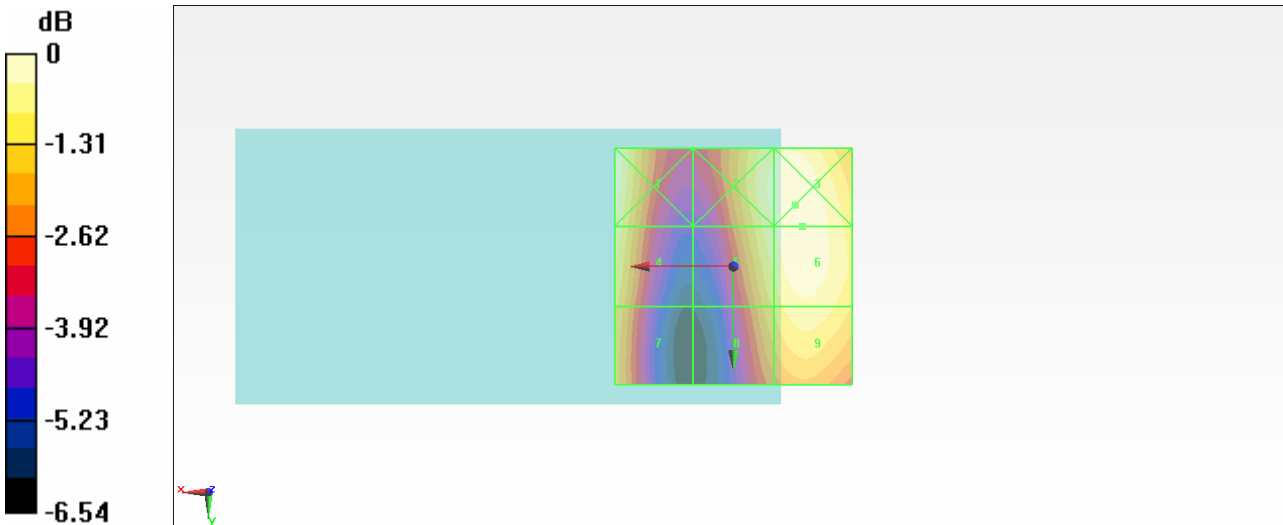
Grid 1 63.344 M3	Grid 2 61.591 M3	Grid 3 63.463 M3
Grid 4 60.348 M3	Grid 5 60.211 M3	Grid 6 63.173 M3
Grid 7 55.130 M3	Grid 8 55.062 M3	Grid 9 59.680 M3

Cursor:

Total = 63.463 V/m

E Category: M3

Location: -13, -13, 8.7 mm



0 dB = 63.460V/m

Test Laboratory: UL CCS

HAC RF Emission

Communication System: GSM1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.00018

Phantom section: TCoil Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2011

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1239; Calibrated: 11/17/2010

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB

- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

GSM1900_E Scan/H ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 59.744 V/m

Probe Modulation Factor = 2.600

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 18.800 V/m; Power Drift = 0.03 dB

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

Peak E-field in V/m

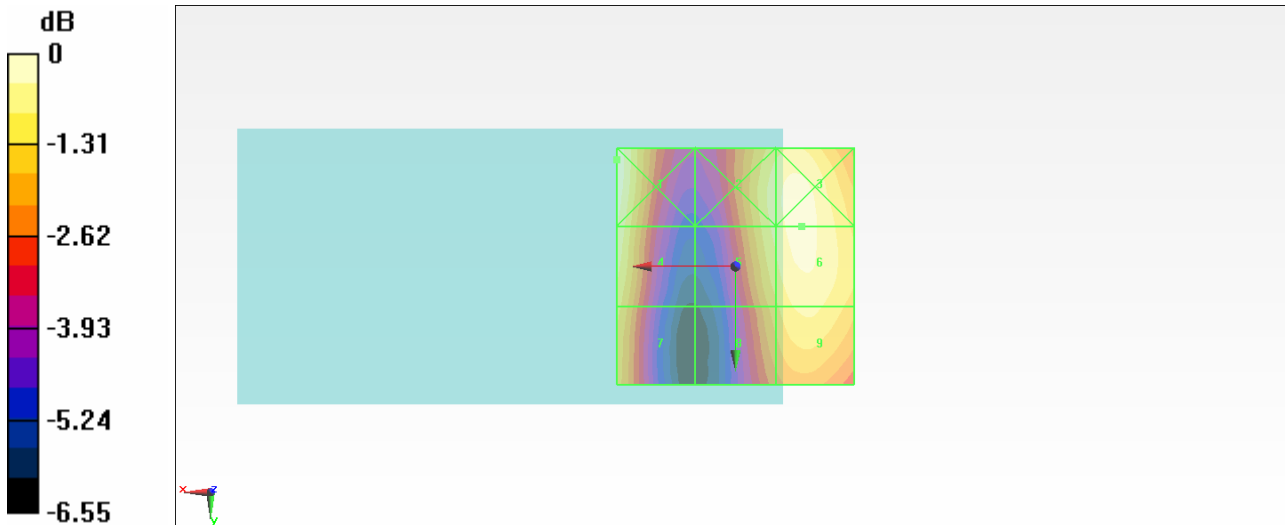
Grid 1 61.594 M3	Grid 2 57.634 M3	Grid 3 59.915 M3
Grid 4 58.901 M3	Grid 5 56.891 M3	Grid 6 59.744 M3
Grid 7 54.107 M3	Grid 8 52.347 M3	Grid 9 56.524 M3

Cursor:

Total = 61.594 V/m

E Category: M3

Location: 25, -22.5, 8.7 mm



0 dB = 61.590V/m

Test Laboratory: UL CCS

HAC RF Emission

Communication System: UMTS FDD (WCDMA); Frequency: 826.4 MHz; Duty Cycle: 1:2.18776

Phantom section: TCoil Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2011

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1239; Calibrated: 11/17/2010

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB

- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

UMTS band V_E Scan/L ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 56.596 V/m

Probe Modulation Factor = 0.890

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 75.909 V/m; Power Drift = -0.05 dB

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

Peak E-field in V/m

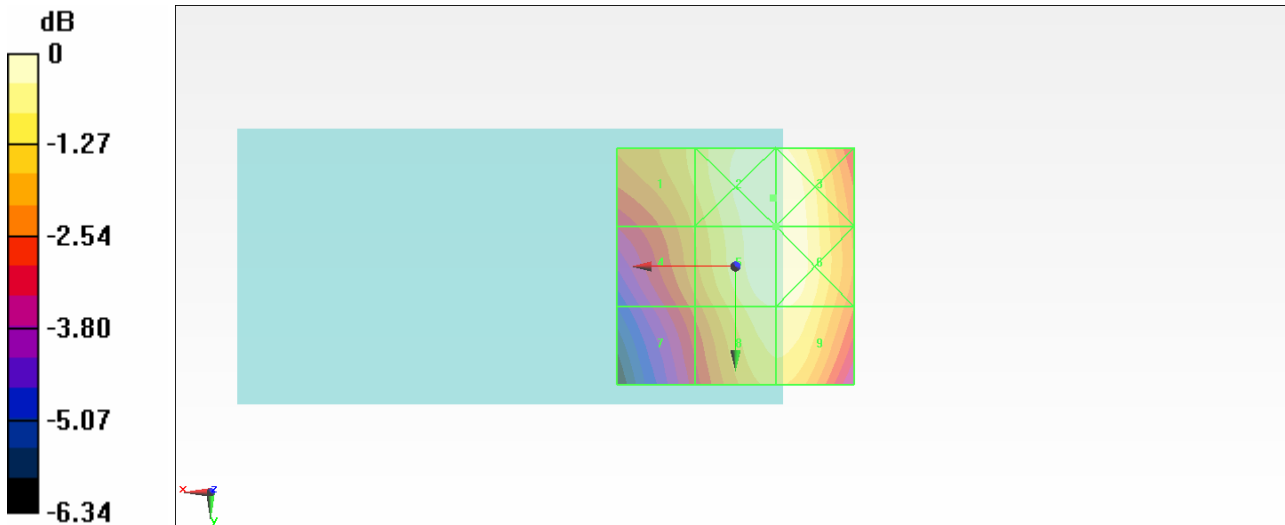
Grid 1 50.113 M4	Grid 2 56.867 M4	Grid 3 56.837 M4
Grid 4 47.321 M4	Grid 5 56.596 M4	Grid 6 56.596 M4
Grid 7 43.540 M4	Grid 8 54.385 M4	Grid 9 54.402 M4

Cursor:

Total = 56.867 V/m

E Category: M4

Location: -8, -14.5, 8.7 mm



0 dB = 56.870V/m

Test Laboratory: UL CCS

HAC RF Emission

Communication System: UMTS FDD (WCDMA); Frequency: 836.6 MHz; Duty Cycle: 1:2.18776

Phantom section: TCoil Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2011

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1239; Calibrated: 11/17/2010

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB

- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

UMTS band V_E Scan/M ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 61.145 V/m

Probe Modulation Factor = 0.890

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 81.952 V/m; Power Drift = 0.04 dB

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

Peak E-field in V/m

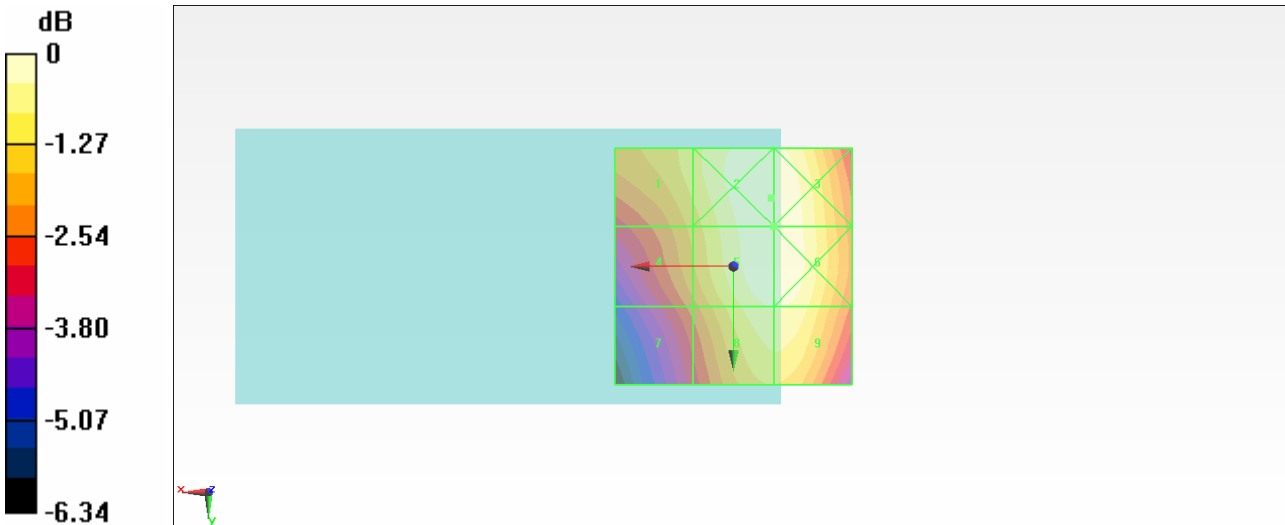
Grid 1 54.690 M4	Grid 2 61.411 M4	Grid 3 61.376 M4
Grid 4 51.652 M4	Grid 5 61.145 M4	Grid 6 61.145 M4
Grid 7 47.166 M4	Grid 8 58.666 M4	Grid 9 58.682 M4

Cursor:

Total = 61.411 V/m

E Category: M4

Location: -8, -14.5, 8.7 mm



0 dB = 61.410V/m

Test Laboratory: UL CCS

HAC RF Emission

Communication System: UMTS FDD (WCDMA); Frequency: 846.6 MHz; Duty Cycle: 1:2.18776

Phantom section: TCoil Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2011

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1239; Calibrated: 11/17/2010

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB

- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

UMTS band V_E Scan/H ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 63.435 V/m

Probe Modulation Factor = 0.890

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 85.891 V/m; Power Drift = -0.02 dB

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

Peak E-field in V/m

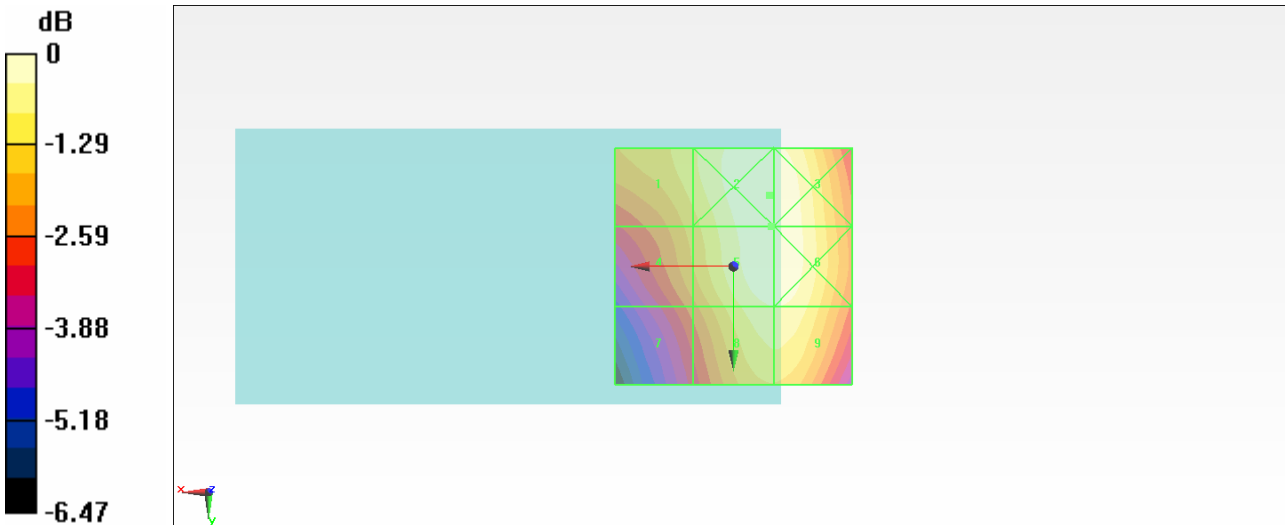
Grid 1 57.276 M4	Grid 2 63.783 M4	Grid 3 63.716 M4
Grid 4 53.834 M4	Grid 5 63.435 M4	Grid 6 63.431 M4
Grid 7 48.872 M4	Grid 8 60.717 M4	Grid 9 60.729 M4

Cursor:

Total = 63.783 V/m

E Category: M4

Location: -7.5, -15, 8.7 mm



0 dB = 63.780V/m

Test Laboratory: UL CCS

HAC RF Emission

Communication System: UMTS FDD (WCDMA); Frequency: 1852.4 MHz; Duty Cycle: 1:2.18776

Phantom section: TCoil Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2011

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1239; Calibrated: 11/17/2010

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB

- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

UMTS band II_E Scan/L ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 39.551 V/m

Probe Modulation Factor = 0.870

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 37.871 V/m; Power Drift = -0.04 dB

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

Peak E-field in V/m

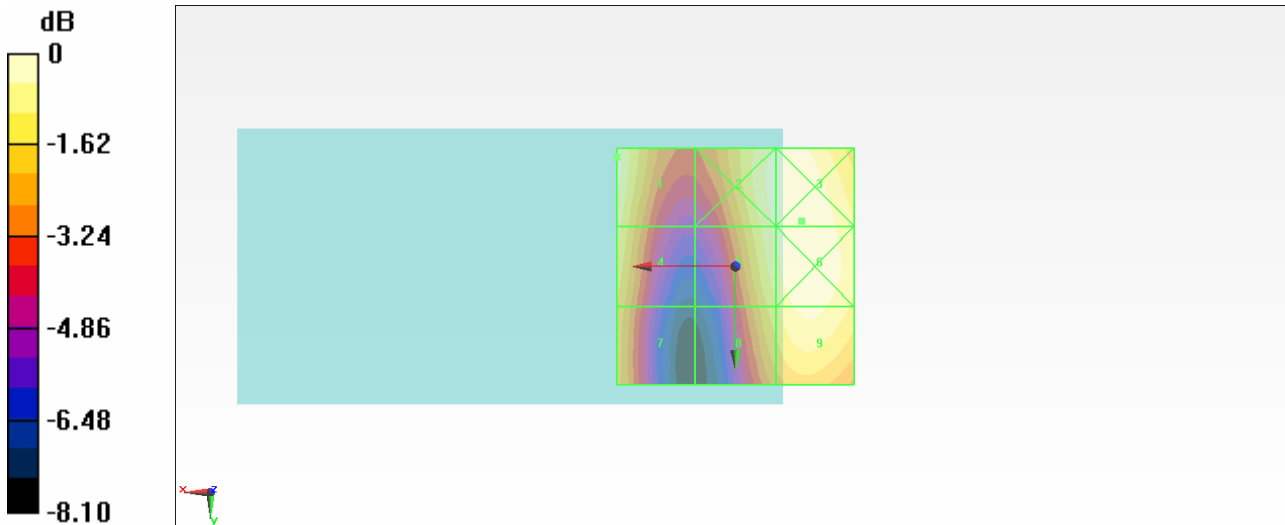
Grid 1 39.551 M4	Grid 2 39.391 M4	Grid 3 40.672 M4
Grid 4 37.054 M4	Grid 5 38.629 M4	Grid 6 40.668 M4
Grid 7 33.566 M4	Grid 8 35.545 M4	Grid 9 39.011 M4

Cursor:

Total = 40.672 V/m

E Category: M4

Location: -14, -9.5, 8.7 mm



0 dB = 40.670V/m

Test Laboratory: UL CCS

HAC RF Emission

Communication System: UMTS FDD (WCDMA); Frequency: 1880 MHz; Duty Cycle: 1:2.18776

Phantom section: TCoil Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2011

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1239; Calibrated: 11/17/2010

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB

- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

UMTS band II_E Scan/M ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 35.668 V/m

Probe Modulation Factor = 0.870

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 33.572 V/m; Power Drift = 0.02 dB

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

Peak E-field in V/m

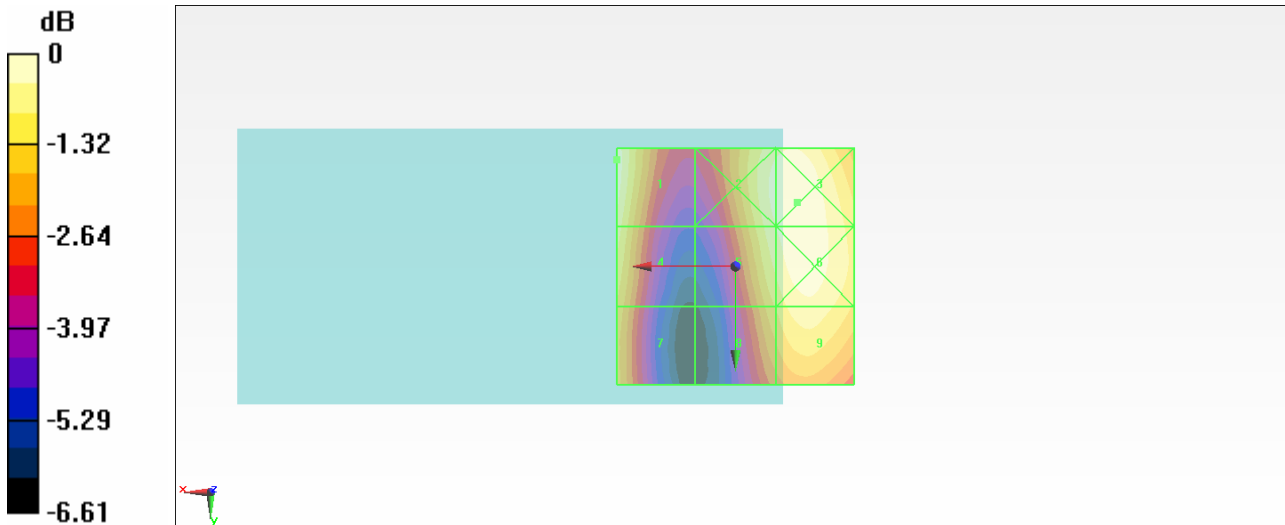
Grid 1 35.668 M4	Grid 2 35.008 M4	Grid 3 36.053 M4
Grid 4 33.716 M4	Grid 5 34.295 M4	Grid 6 35.868 M4
Grid 7 30.787 M4	Grid 8 31.147 M4	Grid 9 33.775 M4

Cursor:

Total = 36.053 V/m

E Category: M4

Location: -13, -13.5, 8.7 mm



0 dB = 36.050V/m

Test Laboratory: UL CCS

HAC RF Emission

Communication System: UMTS FDD (WCDMA); Frequency: 1907.6 MHz; Duty Cycle: 1:2.18776

Phantom section: TCoil Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2011

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1239; Calibrated: 11/17/2010

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB

- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

UMTS band II_E Scan/H ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 36.109 V/m

Probe Modulation Factor = 0.870

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 34.112 V/m; Power Drift = -0.0059 dB

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

Peak E-field in V/m

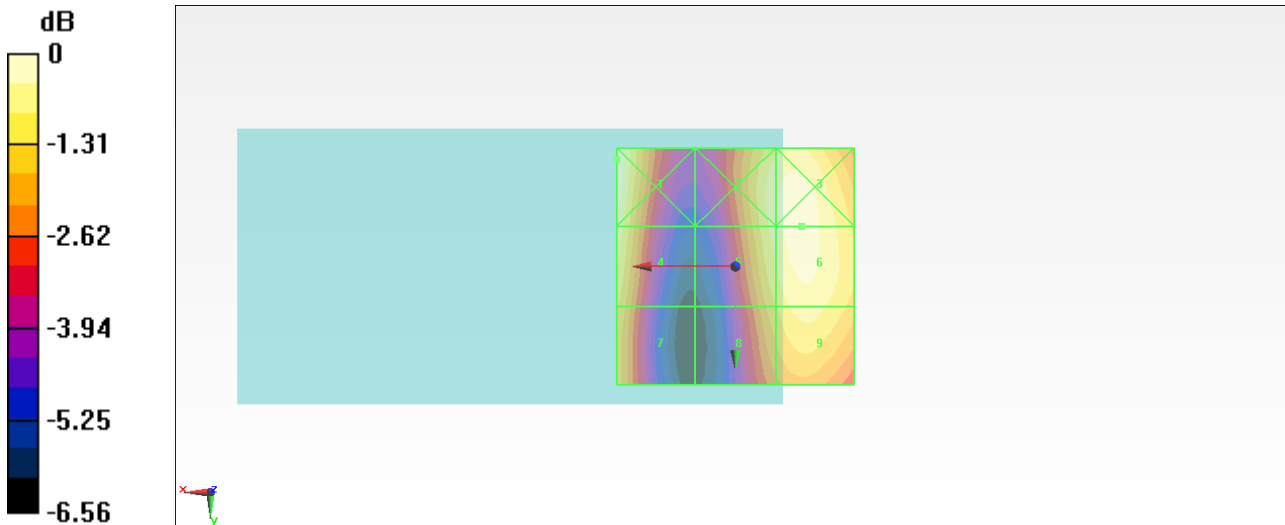
Grid 1 36.972 M4	Grid 2 34.803 M4	Grid 3 36.179 M4
Grid 4 35.043 M4	Grid 5 34.426 M4	Grid 6 36.109 M4
Grid 7 32.011 M4	Grid 8 31.738 M4	Grid 9 34.229 M4

Cursor:

Total = 36.972 V/m

E Category: M4

Location: 25, -22.5, 8.7 mm



0 dB = 36.970V/m