

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: H3DV6 - SN6157; ; Calibrated: 1/25/2011
- 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_H Scan/L ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.325 A/m

Probe Modulation Factor = 2.700

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.095 A/m; Power Drift = -0.06 dB

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

Peak H-field in A/m

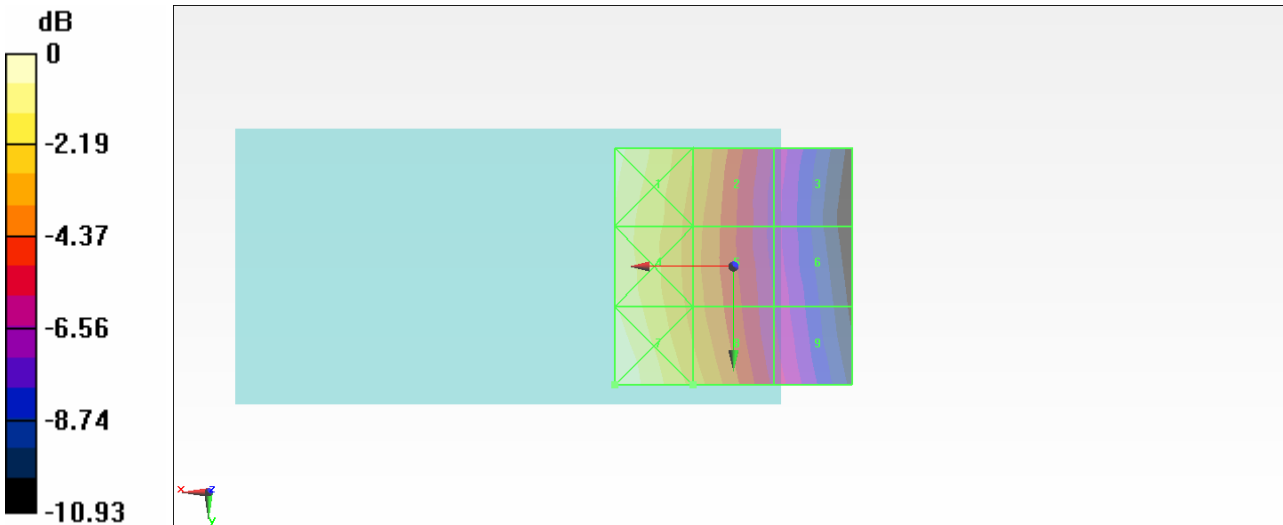
Grid 1 0.410 M4	Grid 2 0.309 M4	Grid 3 0.202 M4
Grid 4 0.400 M4	Grid 5 0.298 M4	Grid 6 0.203 M4
Grid 7 0.433 M4	Grid 8 0.325 M4	Grid 9 0.217 M4

Cursor:

Total = 0.433 A/m

H Category: M4

Location: 25, 25, 8.7 mm



0 dB = 0.430 A/m

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: H3DV6 - SN6157; ; Calibrated: 1/25/2011
- 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_H Scan/M ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.370 A/m

Probe Modulation Factor = 2.700

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.107 A/m; Power Drift = -0.04 dB

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

Peak H-field in A/m

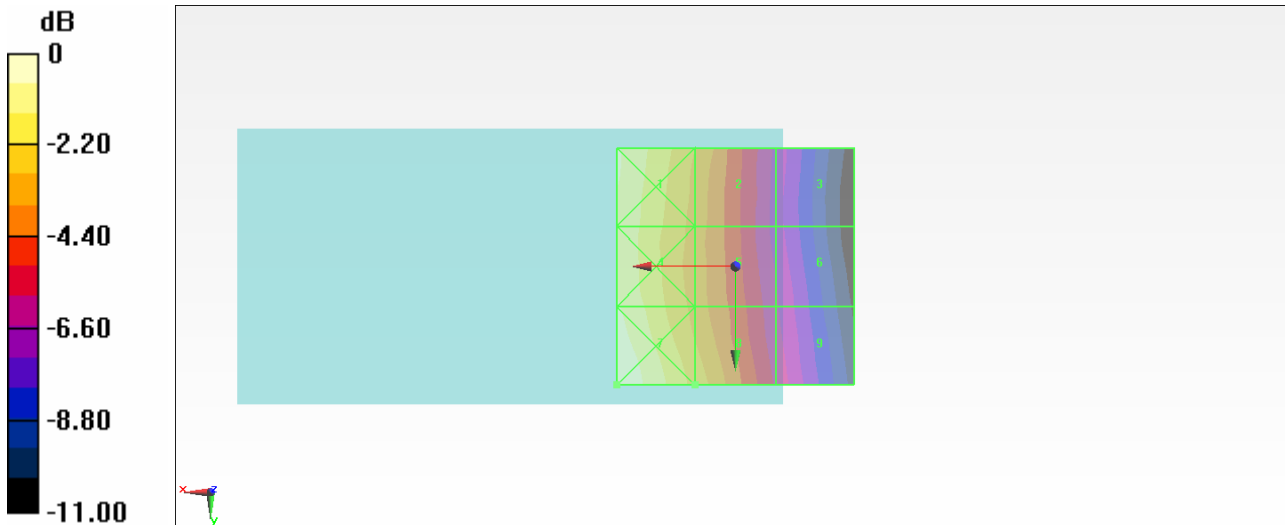
Grid 1 0.457 M3	Grid 2 0.350 M4	Grid 3 0.226 M4
Grid 4 0.456 M3	Grid 5 0.340 M4	Grid 6 0.234 M4
Grid 7 0.495 M3	Grid 8 0.370 M4	Grid 9 0.247 M4

Cursor:

Total = 0.495 A/m

H Category: M3

Location: 25, 25, 8.7 mm



0 dB = 0.490A/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: H3DV6 - SN6157; ; Calibrated: 1/25/2011
- 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_H Scan/H ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.392 A/m

Probe Modulation Factor = 2.700

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.118 A/m; Power Drift = -0.01 dB

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

Peak H-field in A/m

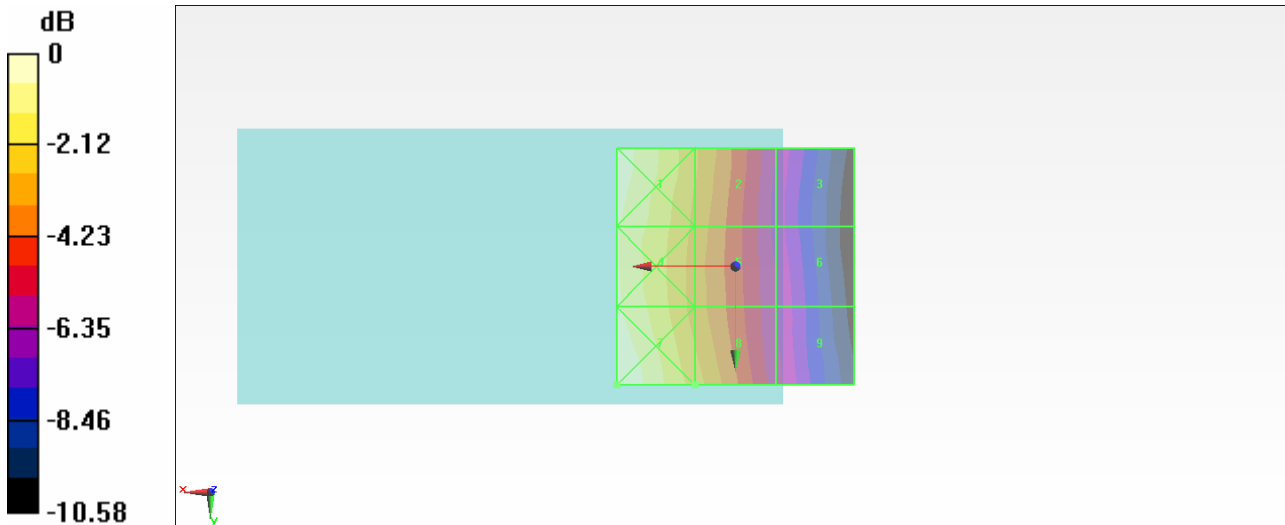
Grid 1 0.506 M3	Grid 2 0.381 M4	Grid 3 0.250 M4
Grid 4 0.487 M3	Grid 5 0.368 M4	Grid 6 0.253 M4
Grid 7 0.523 M3	Grid 8 0.392 M4	Grid 9 0.262 M4

Cursor:

Total = 0.523 A/m

H Category: M3

Location: 25, 25, 8.7 mm



0 dB = 0.520 A/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: H3DV6 - SN6157; ; Calibrated: 1/25/2011
- 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_H Scan/L ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.227 A/m

Probe Modulation Factor = 2.680

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.083 A/m; Power Drift = 0.02 dB

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

Peak H-field in A/m

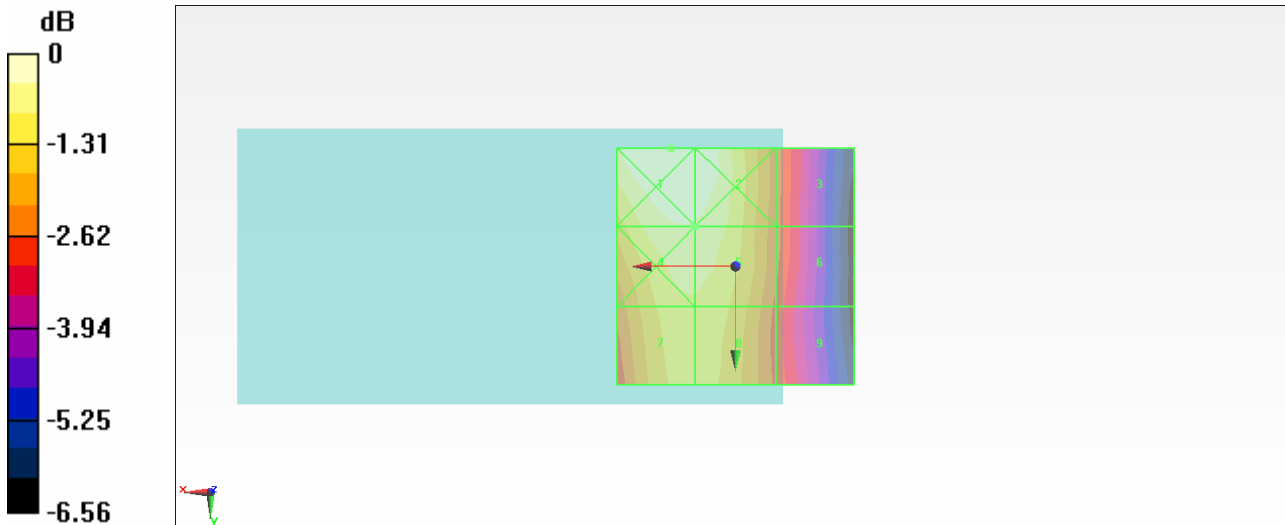
Grid 1 0.244 M3	Grid 2 0.240 M3	Grid 3 0.182 M3
Grid 4 0.228 M3	Grid 5 0.227 M3	Grid 6 0.181 M3
Grid 7 0.215 M3	Grid 8 0.215 M3	Grid 9 0.176 M3

Cursor:

Total = 0.244 A/m

H Category: M3

Location: 13.5, -25, 8.7 mm



0 dB = 0.240A/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: H3DV6 - SN6157; ; Calibrated: 1/25/2011
- 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_H Scan/M ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.211 A/m

Probe Modulation Factor = 2.680

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.075 A/m; Power Drift = 0.03 dB

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

Peak H-field in A/m

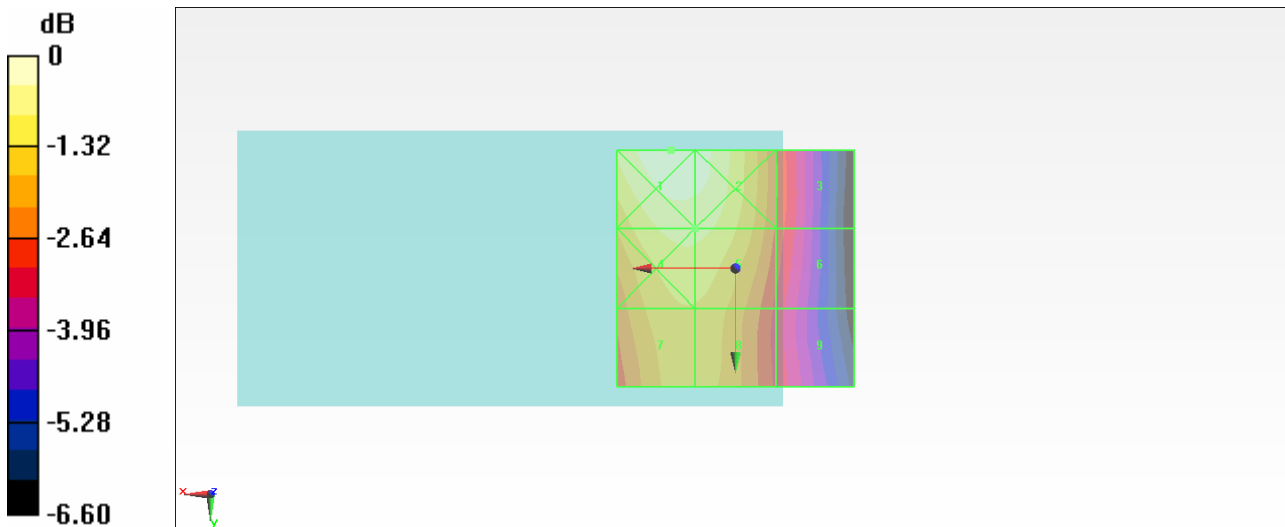
Grid 1 0.227 M3	Grid 2 0.224 M3	Grid 3 0.172 M3
Grid 4 0.212 M3	Grid 5 0.211 M3	Grid 6 0.169 M3
Grid 7 0.197 M3	Grid 8 0.197 M3	Grid 9 0.160 M3

Cursor:

Total = 0.227 A/m

H Category: M3

Location: 13.5, -25, 8.7 mm



0 dB = 0.230 A/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: H3DV6 - SN6157; ; Calibrated: 1/25/2011
- 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_H Scan/H ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.212 A/m

Probe Modulation Factor = 2.680

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.075 A/m; Power Drift = -0.01 dB

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

Peak H-field in A/m

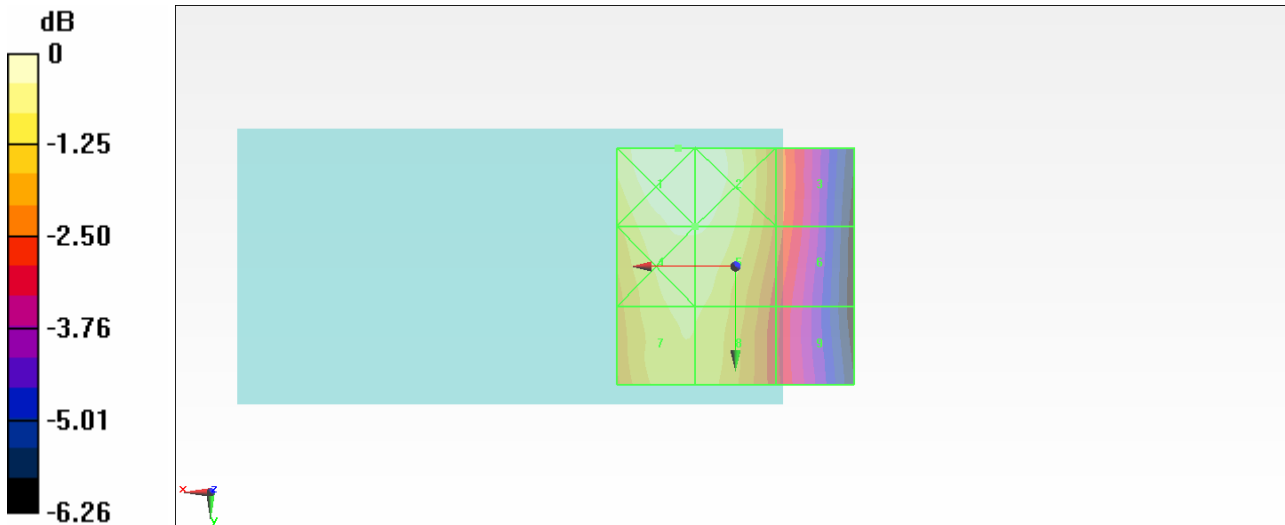
Grid 1 0.223 M3	Grid 2 0.221 M3	Grid 3 0.174 M3
Grid 4 0.212 M3	Grid 5 0.212 M3	Grid 6 0.171 M3
Grid 7 0.202 M3	Grid 8 0.201 M3	Grid 9 0.161 M3

Cursor:

Total = 0.223 A/m

H Category: M3

Location: 12, -25, 8.7 mm



0 dB = 0.220A/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: H3DV6 - SN6157; ; Calibrated: 1/25/2011
- 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_H Scan/L ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.107 A/m

Probe Modulation Factor = 0.900

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.096 A/m; Power Drift = -0.06 dB

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

Peak H-field in A/m

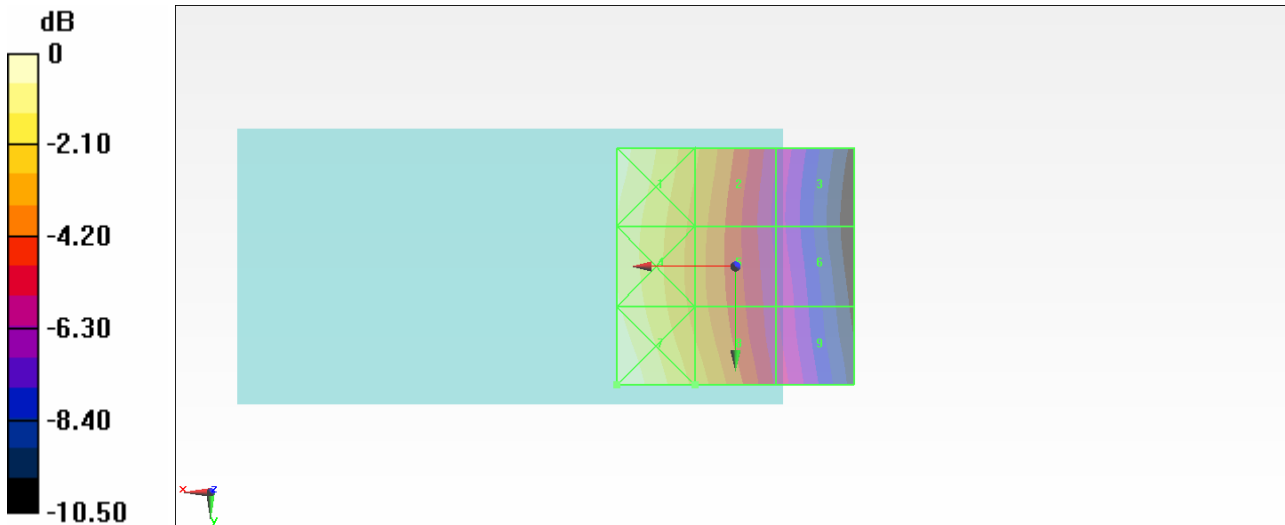
Grid 1 0.135 M4	Grid 2 0.103 M4	Grid 3 0.069 M4
Grid 4 0.131 M4	Grid 5 0.099 M4	Grid 6 0.069 M4
Grid 7 0.141 M4	Grid 8 0.107 M4	Grid 9 0.073 M4

Cursor:

Total = 0.141 A/m

H Category: M4

Location: 25, 25, 8.7 mm



0 dB = 0.140 A/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: H3DV6 - SN6157; ; Calibrated: 1/25/2011
- 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_H Scan/M ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.119 A/m

Probe Modulation Factor = 0.900

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.104 A/m; Power Drift = 0.03 dB

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

Peak H-field in A/m

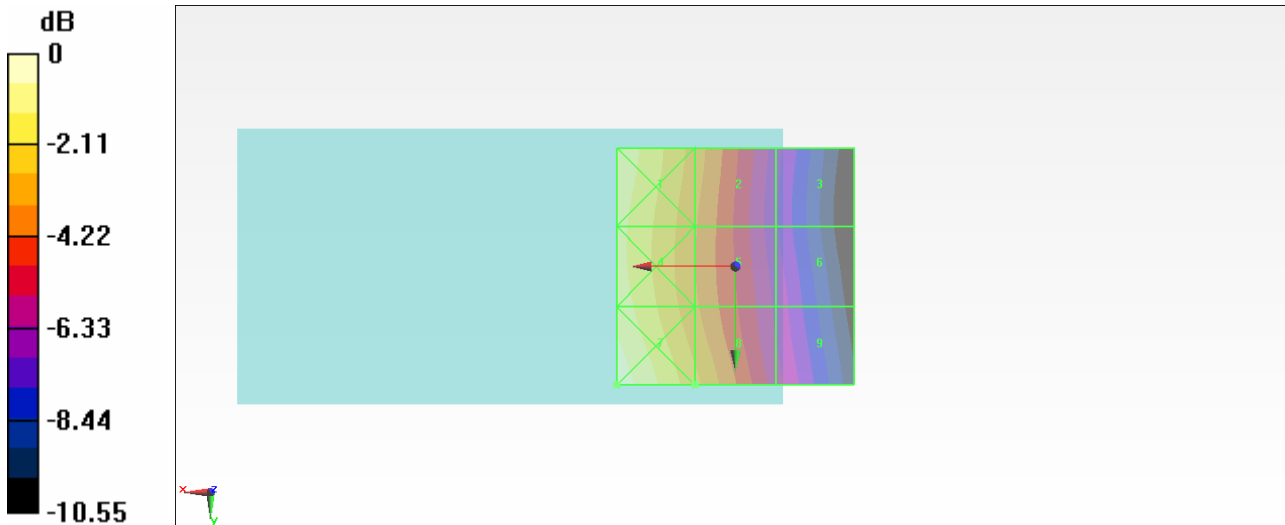
Grid 1 0.146 M4	Grid 2 0.111 M4	Grid 3 0.074 M4
Grid 4 0.144 M4	Grid 5 0.109 M4	Grid 6 0.076 M4
Grid 7 0.155 M4	Grid 8 0.119 M4	Grid 9 0.081 M4

Cursor:

Total = 0.155 A/m

H Category: M4

Location: 25, 25, 8.7 mm



0 dB = 0.160 A/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: H3DV6 - SN6157; ; Calibrated: 1/25/2011
- 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_H Scan/H ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.121 A/m

Probe Modulation Factor = 0.900

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.110 A/m; Power Drift = -0.01 dB

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

Peak H-field in A/m

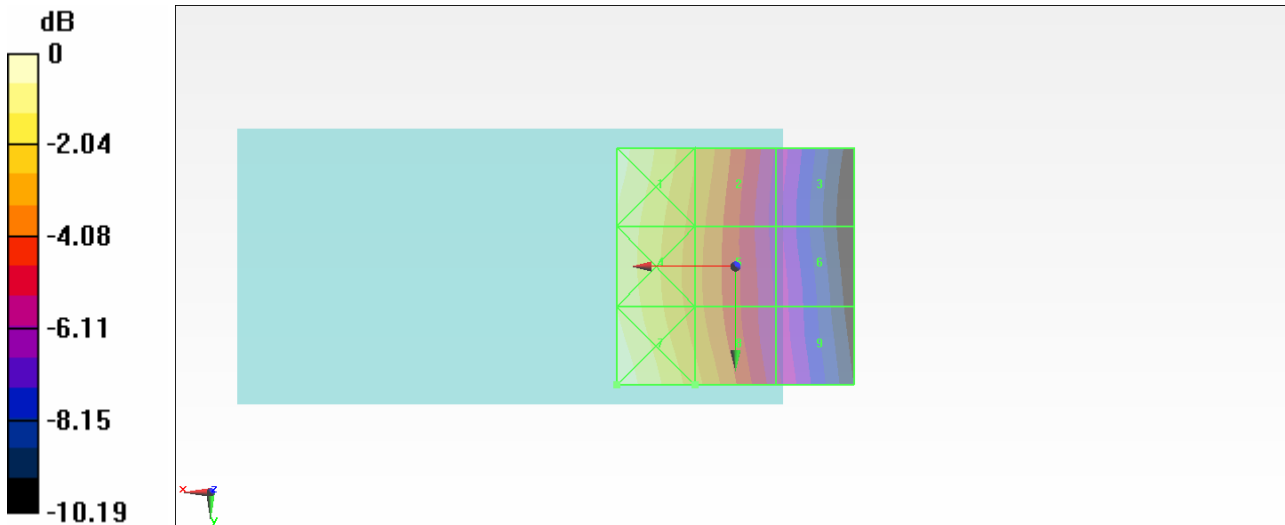
Grid 1 0.154 M4	Grid 2 0.118 M4	Grid 3 0.079 M4
Grid 4 0.148 M4	Grid 5 0.113 M4	Grid 6 0.079 M4
Grid 7 0.157 M4	Grid 8 0.121 M4	Grid 9 0.082 M4

Cursor:

Total = 0.157 A/m

H Category: M4

Location: 25, 25, 8.7 mm



0 dB = 0.160 A/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: H3DV6 - SN6157; ; Calibrated: 1/25/2011
- 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_H Scan/L ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.129 A/m

Probe Modulation Factor = 0.880

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.143 A/m; Power Drift = -0.0031 dB

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

Peak H-field in A/m

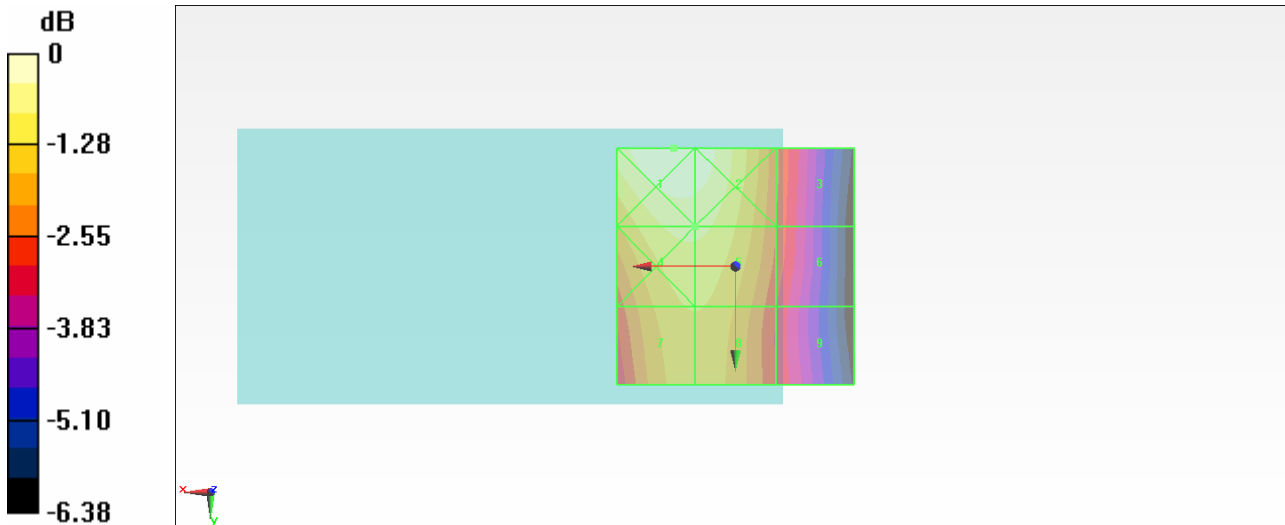
Grid 1 0.140 M4	Grid 2 0.138 M4	Grid 3 0.106 M4
Grid 4 0.129 M4	Grid 5 0.129 M4	Grid 6 0.105 M4
Grid 7 0.121 M4	Grid 8 0.121 M4	Grid 9 0.100 M4

Cursor:

Total = 0.140 A/m

H Category: M4

Location: 13, -25, 8.7 mm



0 dB = 0.140A/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: H3DV6 - SN6157; ; Calibrated: 1/25/2011
- 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_H Scan/M ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.114 A/m

Probe Modulation Factor = 0.880

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.124 A/m; Power Drift = -0.01 dB

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

Peak H-field in A/m

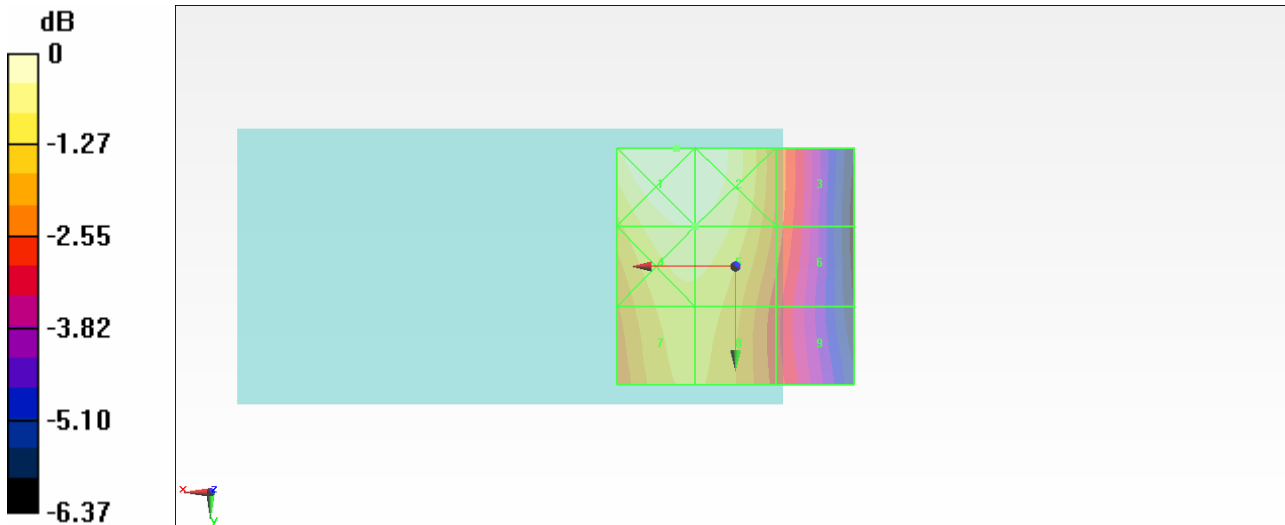
Grid 1 0.123 M4	Grid 2 0.122 M4	Grid 3 0.094 M4
Grid 4 0.114 M4	Grid 5 0.114 M4	Grid 6 0.093 M4
Grid 7 0.107 M4	Grid 8 0.107 M4	Grid 9 0.088 M4

Cursor:

Total = 0.123 A/m

H Category: M4

Location: 12.5, -25, 8.7 mm



0 dB = 0.120A/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: H3DV6 - SN6157; ; Calibrated: 1/25/2011
- 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_H Scan/H ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.121 A/m

Probe Modulation Factor = 0.880

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.130 A/m; Power Drift = 0.03 dB

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

Peak H-field in A/m

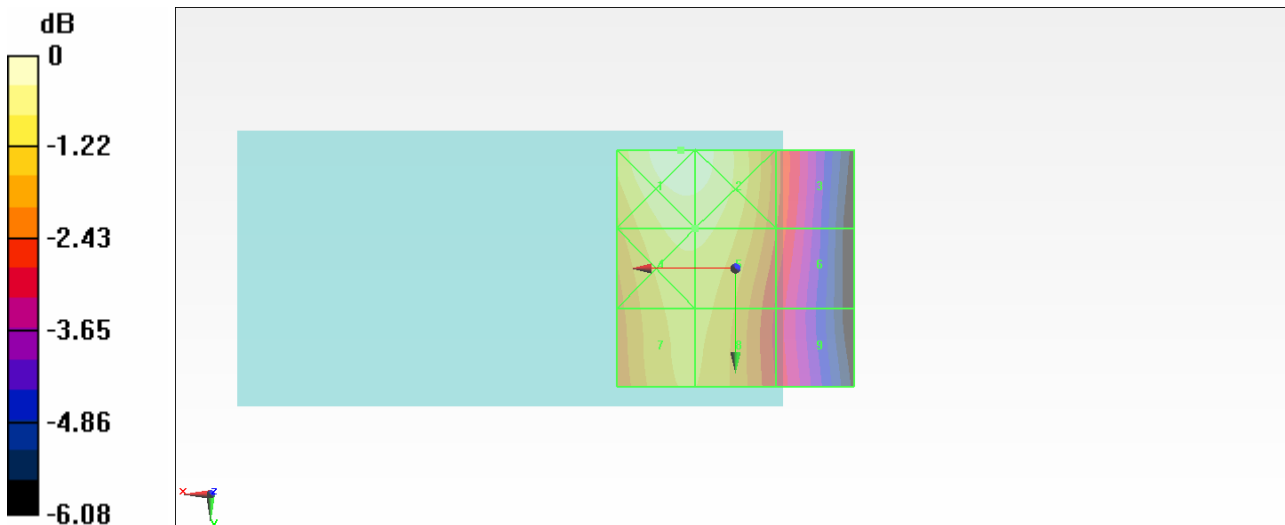
Grid 1 0.128 M4	Grid 2 0.127 M4	Grid 3 0.101 M4
Grid 4 0.121 M4	Grid 5 0.121 M4	Grid 6 0.099 M4
Grid 7 0.115 M4	Grid 8 0.115 M4	Grid 9 0.094 M4

Cursor:

Total = 0.128 A/m

H Category: M4

Location: 11.5, -25, 8.7 mm



0 dB = 0.130A/m