HAC-RF Emission

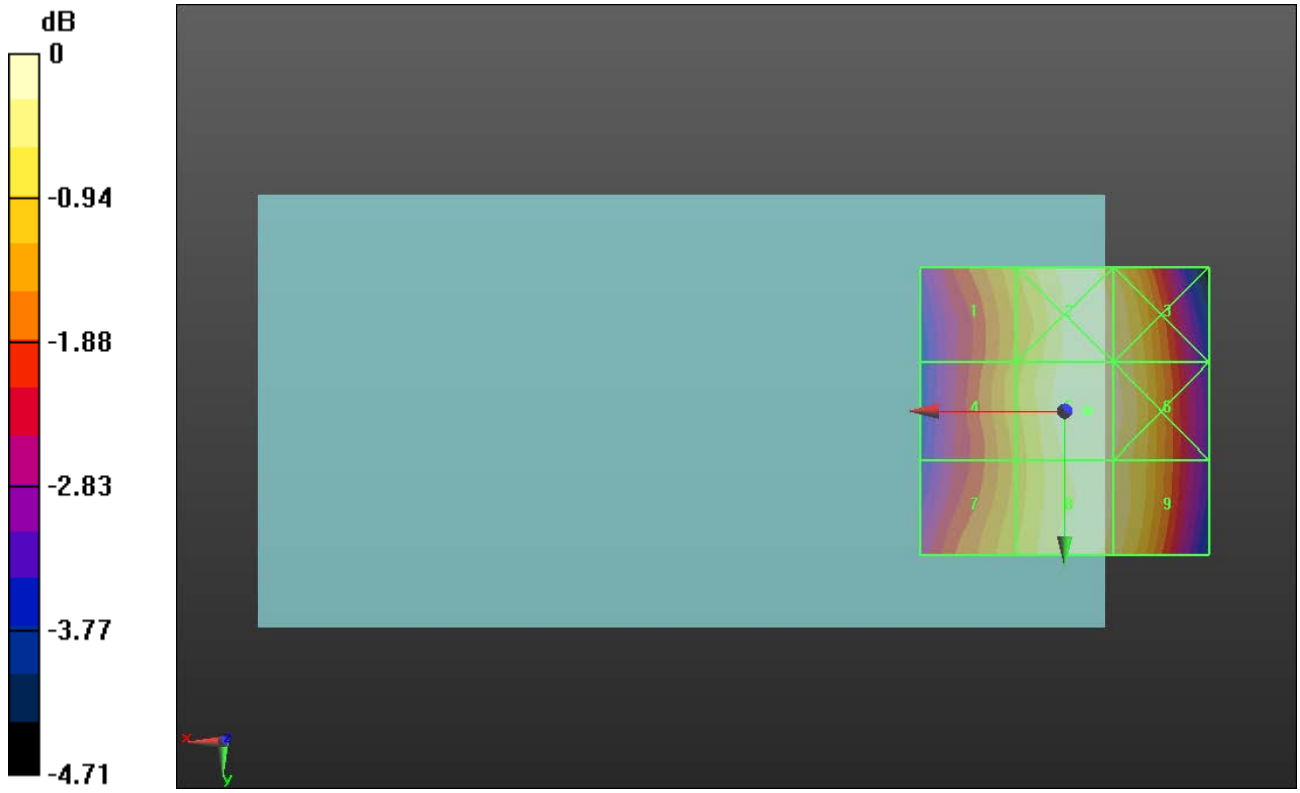
Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 824.2 MHz; Duty Cycle: 1:8.6896
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 2/14/2014;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1360; Calibrated: 3/17/2014
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

GSM850 E-Field measurement/Voice_ch 128/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 49.45 V/m; Power Drift = -0.00 dB
Applied MIF = 3.63 dB
RF audio interference level = 35.60 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **34.63 dBV/m**	Grid 2 **M4** **35.49 dBV/m**	Grid 3 **M4** **35.35 dBV/m**
Grid 4 **M4** **34.61 dBV/m**	Grid 5 **M4** **35.6 dBV/m**	Grid 6 **M4** **35.44 dBV/m**
Grid 7 **M4** **34.68 dBV/m**	Grid 8 **M4** **35.49 dBV/m**	Grid 9 **M4** **35.28 dBV/m**



0 dB = 60.26 V/m = 35.60 dBV/m

HAC-RF Emission

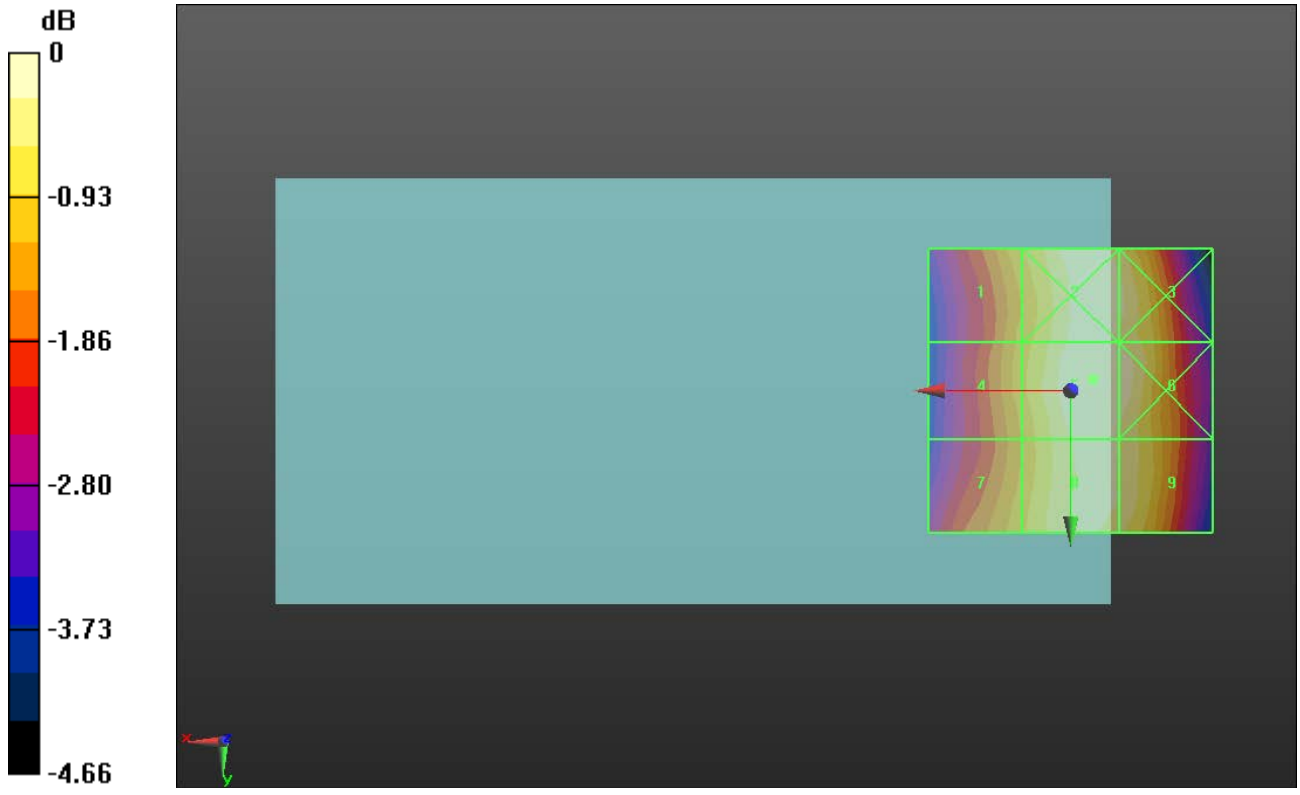
Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 836.6 MHz; Duty Cycle: 1:8.6896
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 2/14/2014;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1360; Calibrated: 3/17/2014
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

GSM850 E-Field measurement/Voice_ch 190/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 51.12 V/m; Power Drift = 0.12 dB
Applied MIF = 3.63 dB
RF audio interference level = 35.86 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **34.95 dBV/m**	Grid 2 **M4** **35.84 dBV/m**	Grid 3 **M4** **35.65 dBV/m**
Grid 4 **M4** **34.85 dBV/m**	Grid 5 **M4** **35.86 dBV/m**	Grid 6 **M4** **35.79 dBV/m**
Grid 7 **M4** **34.89 dBV/m**	Grid 8 **M4** **35.71 dBV/m**	Grid 9 **M4** **35.56 dBV/m**



0 dB = 62.09 V/m = 35.86 dBV/m

HAC-RF Emission

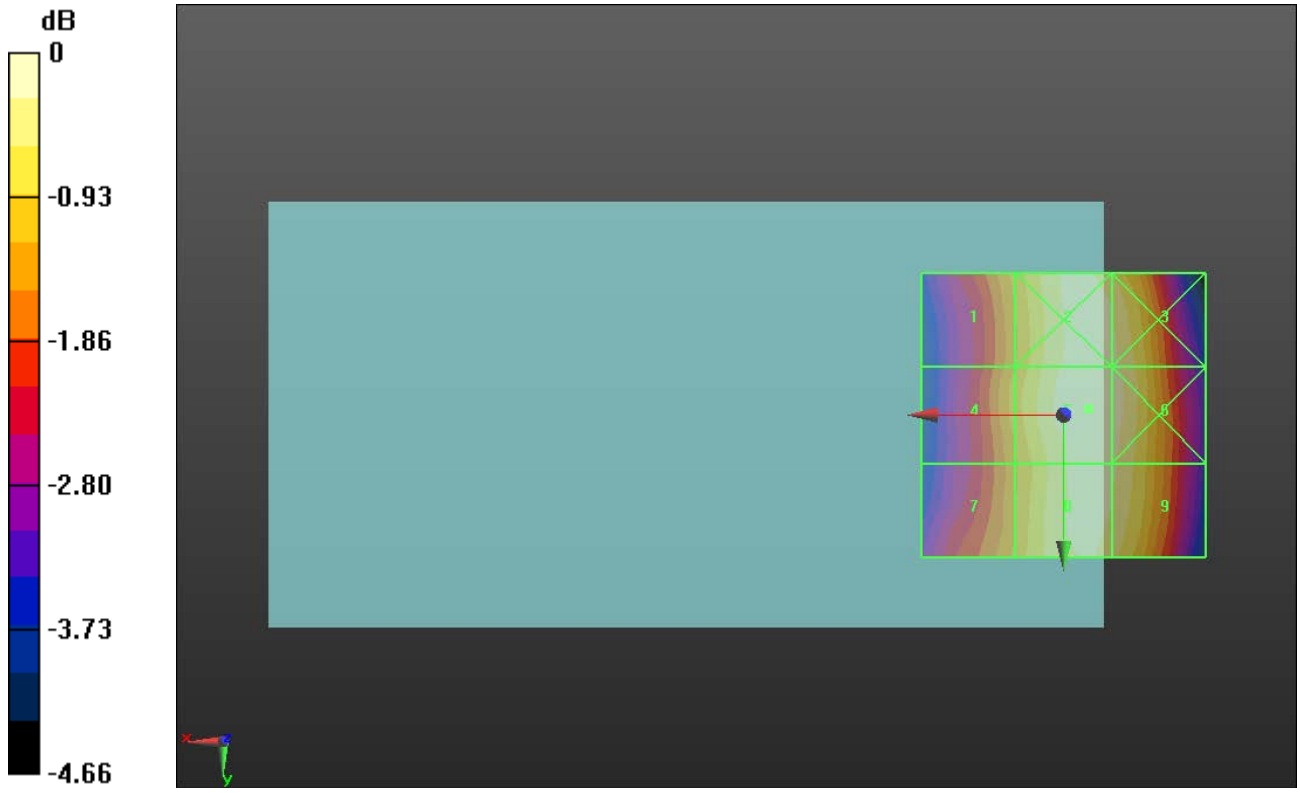
Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 848.6 MHz; Duty Cycle: 1:8.6896
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 2/14/2014;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1360; Calibrated: 3/17/2014
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

GSM850 E-Field measurement/Voice_ch 251/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 50.09 V/m; Power Drift = -0.05 dB
Applied MIF = 3.63 dB
RF audio interference level = 35.90 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **34.82 dBV/m**	Grid 2 **M4** **35.81 dBV/m**	Grid 3 **M4** **35.7 dBV/m**
Grid 4 **M4** **34.84 dBV/m**	Grid 5 **M4** **35.9 dBV/m**	Grid 6 **M4** **35.78 dBV/m**
Grid 7 **M4** **34.76 dBV/m**	Grid 8 **M4** **35.76 dBV/m**	Grid 9 **M4** **35.65 dBV/m**



0 dB = 62.39 V/m = 35.90 dBV/m

HAC-RF Emission

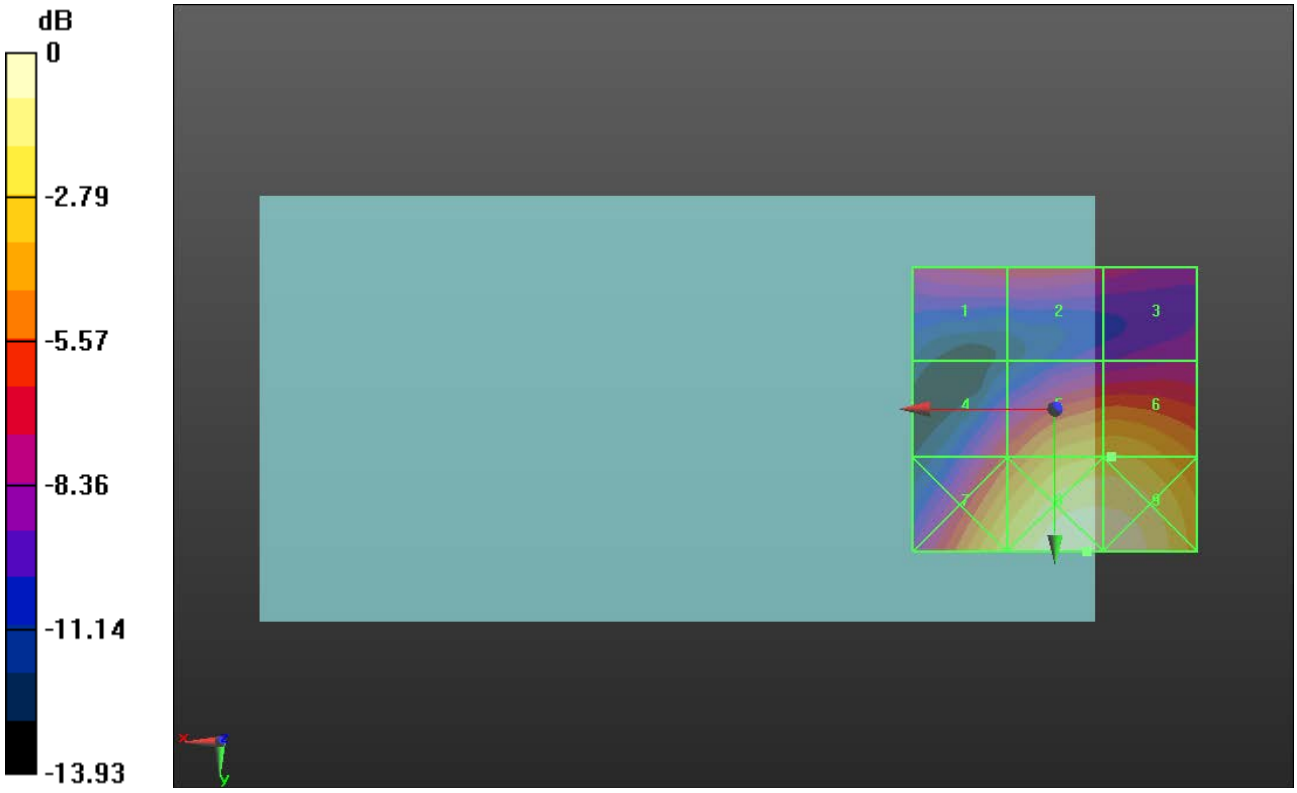
Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 1850.2 MHz; Duty Cycle: 1:8.6896
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 2/14/2014;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1360; Calibrated: 3/17/2014
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

GSM1900 E-Field measurement/Voice_ch 512/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 10.57 V/m; Power Drift = 0.05 dB
Applied MIF = 3.63 dB
RF audio interference level = 25.89 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **21.88 dBV/m**	Grid 2 **M4** **22.04 dBV/m**	Grid 3 **M4** **21.15 dBV/m**
Grid 4 **M4** **22.54 dBV/m**	Grid 5 **M4** **25.87 dBV/m**	Grid 6 **M4** **25.89 dBV/m**
Grid 7 **M4** **26.44 dBV/m**	Grid 8 **M4** **28.49 dBV/m**	Grid 9 **M4** **28.4 dBV/m**



0 dB = 26.59 V/m = 28.49 dBV/m

HAC-RF Emission

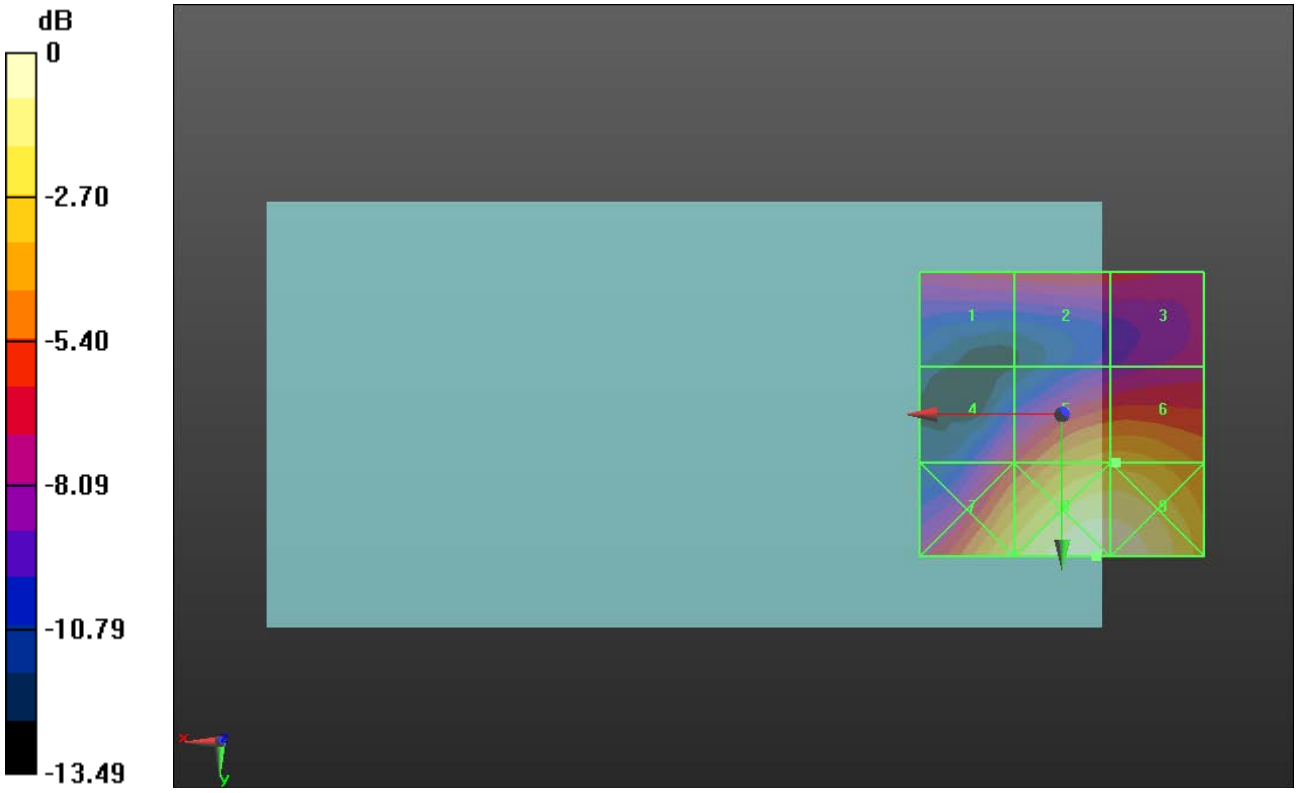
Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz; Duty Cycle: 1:8.6896
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 2/14/2014;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1360; Calibrated: 3/17/2014
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

GSM1900 E-Field measurement/Voice_ch 661/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 9.074 V/m; Power Drift = 0.21 dB
Applied MIF = 3.63 dB
RF audio interference level = 25.09 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **21.55 dBV/m**	Grid 2 **M4** **21.99 dBV/m**	Grid 3 **M4** **21.59 dBV/m**
Grid 4 **M4** **21.74 dBV/m**	Grid 5 **M4** **25.08 dBV/m**	Grid 6 **M4** **25.09 dBV/m**
Grid 7 **M4** **26 dBV/m**	Grid 8 **M4** **28.15 dBV/m**	Grid 9 **M4** **28.06 dBV/m**



0 dB = 25.55 V/m = 28.15 dBV/m

HAC-RF Emission

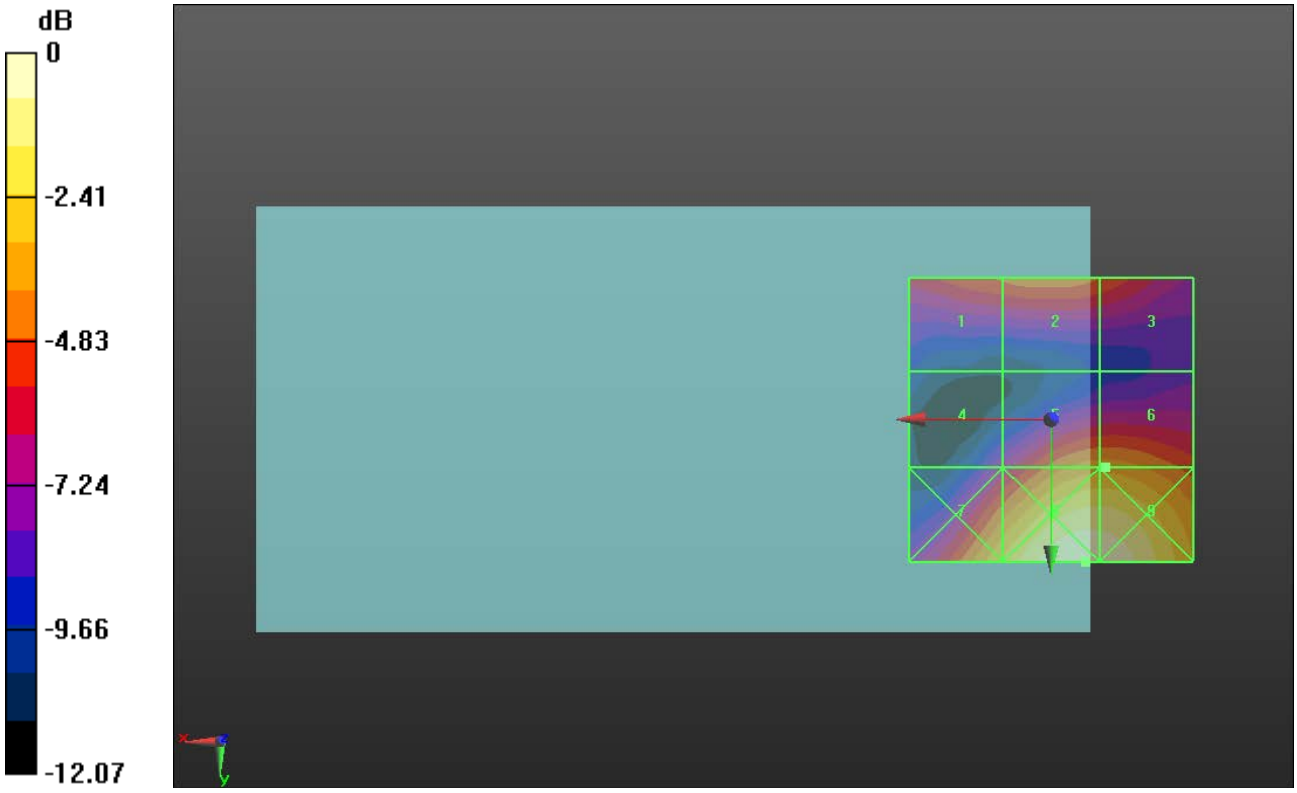
Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 1909.8 MHz; Duty Cycle: 1:8.6896
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 2/14/2014;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1360; Calibrated: 3/17/2014
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

GSM1900 E-Field measurement/Voice_ch 810/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 8.118 V/m; Power Drift = 0.00 dB
Applied MIF = 3.63 dB
RF audio interference level = 25.11 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **24.02 dBV/m**	Grid 2 **M4** **24.43 dBV/m**	Grid 3 **M4** **23.88 dBV/m**
Grid 4 **M4** **21.63 dBV/m**	Grid 5 **M4** **25.11 dBV/m**	Grid 6 **M4** **25.11 dBV/m**
Grid 7 **M4** **26.37 dBV/m**	Grid 8 **M4** **28.63 dBV/m**	Grid 9 **M4** **28.54 dBV/m**



0 dB = 27.02 V/m = 28.63 dBV/m

Test Laboratory: UL Verification Services Inc. SAR Lab C Date: 5/20/2014

HAC-RF Emission

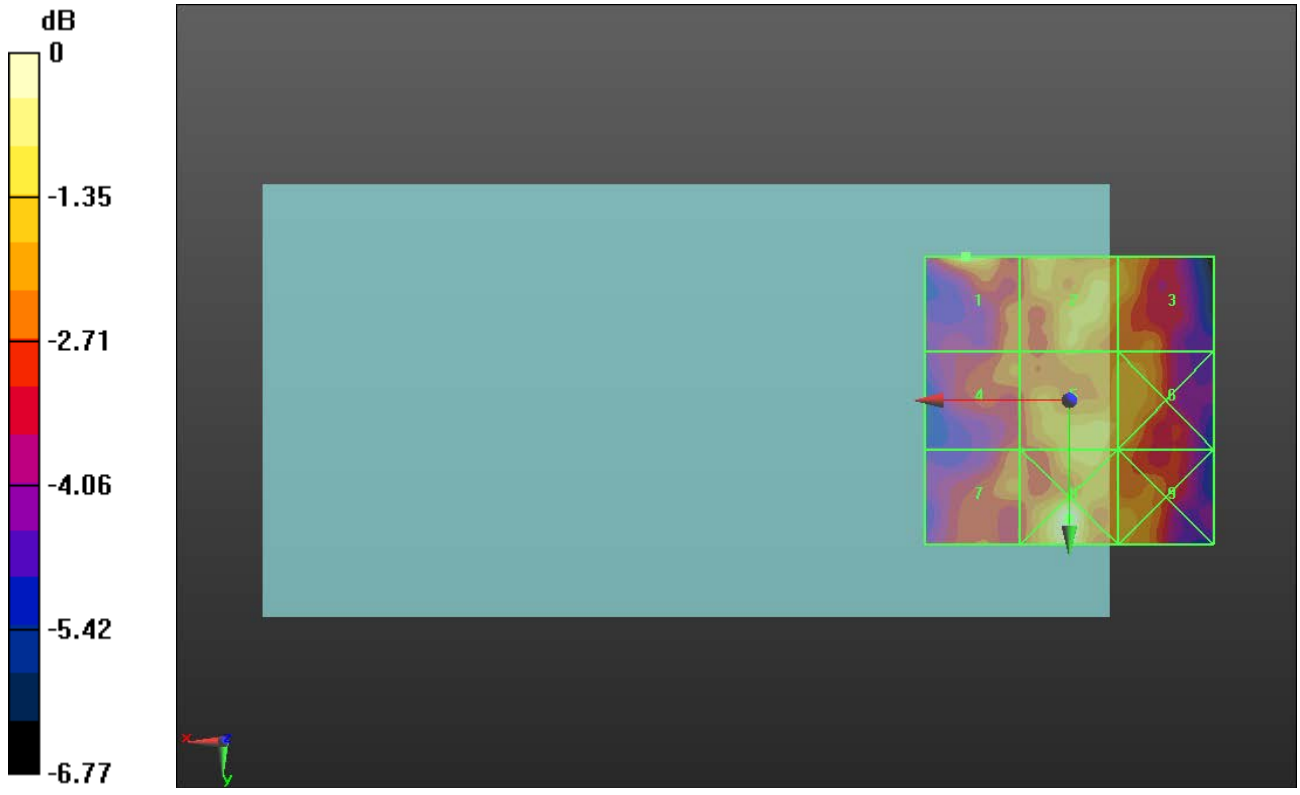
Communication System: UID 10295 - AAB, CDMA2000, RC1, SO3, 1/8th Rate 25 fr.; Frequency: 824.7 MHz; Duty Cycle: 1:17.7419
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 2/14/2014;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1360; Calibrated: 3/17/2014
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

CDMA BC0 E-Field measurement/RC1_SO3_Ch 1013/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 22.73 V/m; Power Drift = 0.95 dB
Applied MIF = 3.26 dB
RF audio interference level = 30.24 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **30.24 dBV/m**	Grid 2 **M4** **29.35 dBV/m**	Grid 3 **M4** **29.04 dBV/m**
Grid 4 **M4** **28.34 dBV/m**	Grid 5 **M4** **29.44 dBV/m**	Grid 6 **M4** **29.17 dBV/m**
Grid 7 **M4** **28.44 dBV/m**	Grid 8 **M4** **30.51 dBV/m**	Grid 9 **M4** **28.87 dBV/m**



0 dB = 33.54 V/m = 30.51 dBV/m

HAC-RF Emission

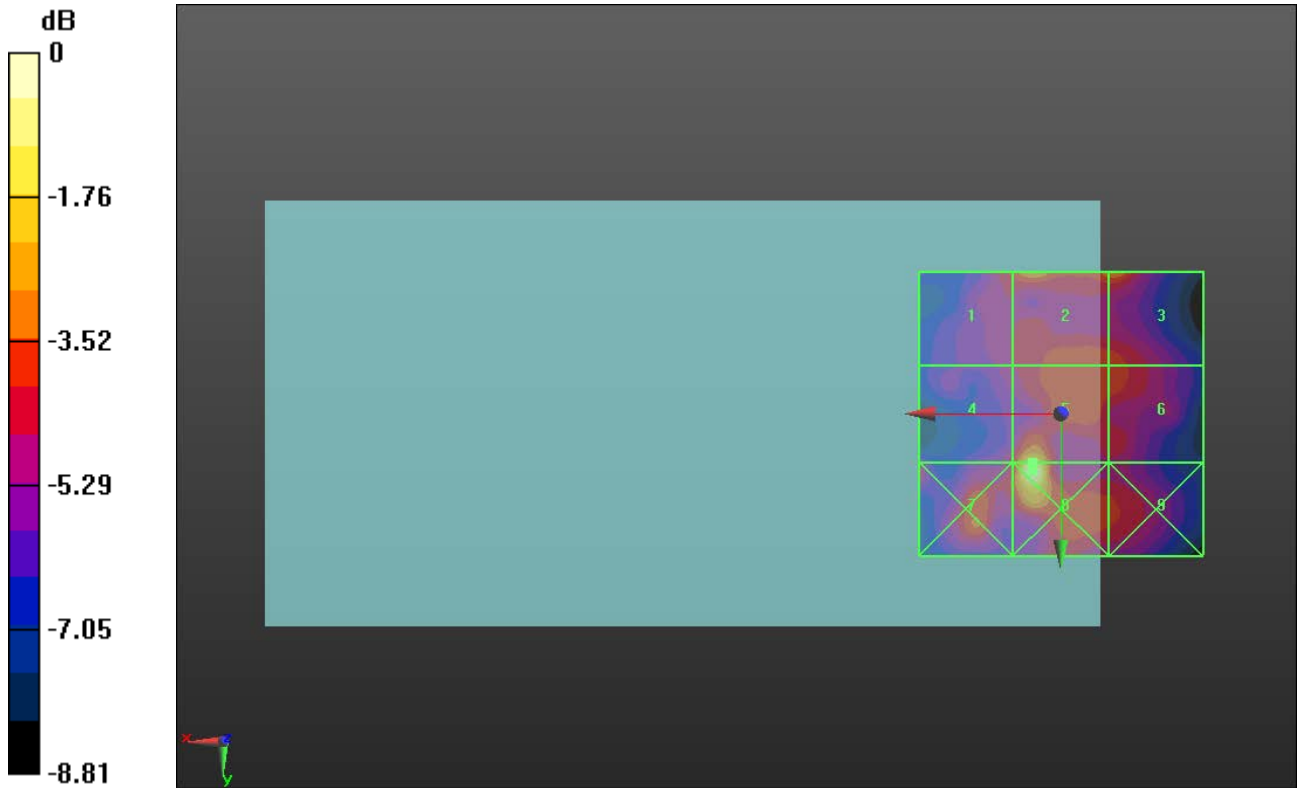
Communication System: UID 10295 - AAB, CDMA2000, RC1, SO3, 1/8th Rate 25 fr.; Frequency: 831.99 MHz; Duty Cycle: 1:17.7419
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 2/14/2014;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1360; Calibrated: 3/17/2014
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

CDMA BC0 E-Field measurement/RC1_SO3_Ch 384/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 22.29 V/m; Power Drift = 0.96 dB
Applied MIF = 3.26 dB
RF audio interference level = 31.70 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **29.12 dBV/m**	Grid 2 **M4** **30.27 dBV/m**	Grid 3 **M4** **30.25 dBV/m**
Grid 4 **M4** **28.53 dBV/m**	Grid 5 **M4** **31.7 dBV/m**	Grid 6 **M4** **29.17 dBV/m**
Grid 7 **M4** **29.47 dBV/m**	Grid 8 **M4** **32.87 dBV/m**	Grid 9 **M4** **28.95 dBV/m**



0 dB = 44.00 V/m = 32.87 dBV/m

Test Laboratory: UL Verification Services Inc. SAR Lab C Date: 5/20/2014

HAC-RF Emission

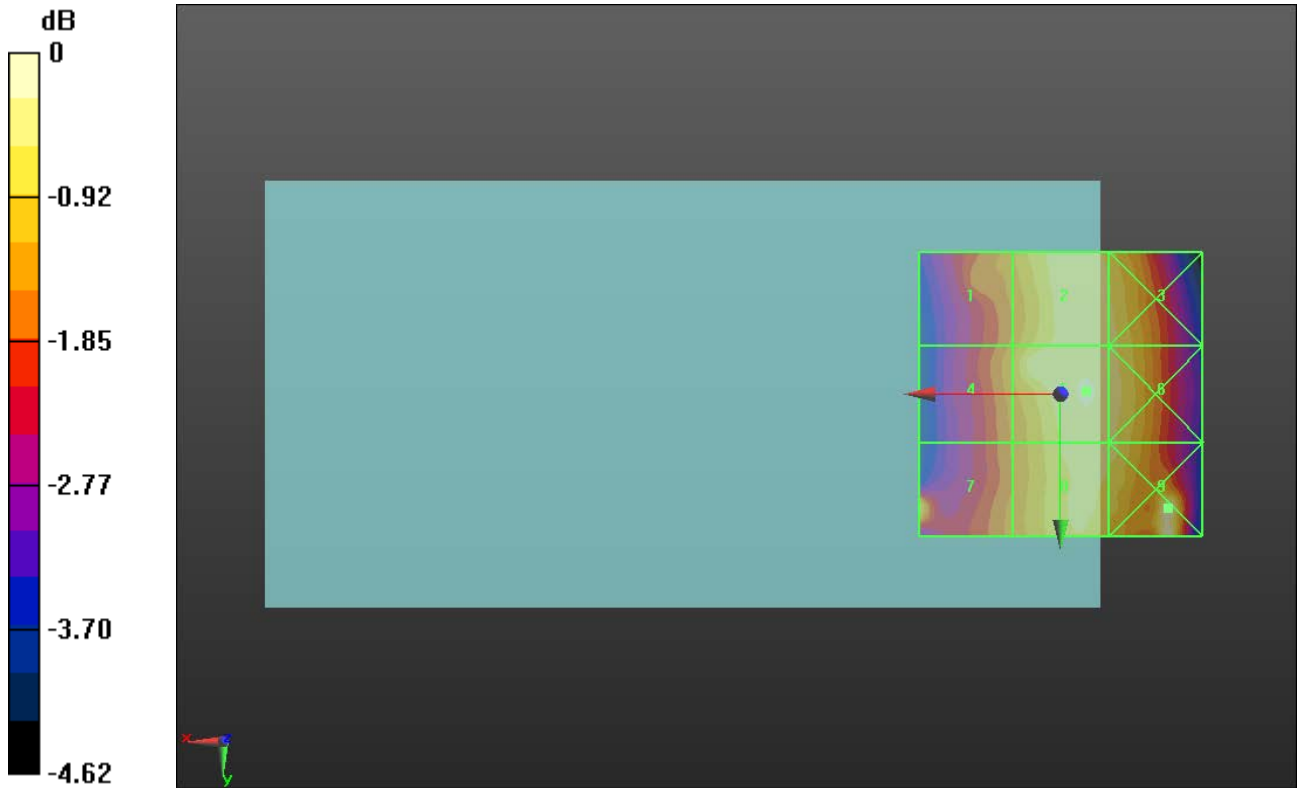
Communication System: UID 10295 - AAB, CDMA2000, RC1, SO3, 1/8th Rate 25 fr.; Frequency: 848.31 MHz; Duty Cycle: 1:17.7419
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 2/14/2014;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1360; Calibrated: 3/17/2014
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

CDMA BC0 E-Field measurement/RC1_SO3_Ch 777/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 21.44 V/m; Power Drift = -0.01 dB
Applied MIF = 3.26 dB
RF audio interference level = 27.99 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **27 dBV/m**	Grid 2 **M4** **27.97 dBV/m**	Grid 3 **M4** **27.8 dBV/m**
Grid 4 **M4** **27.07 dBV/m**	Grid 5 **M4** **27.99 dBV/m**	Grid 6 **M4** **27.88 dBV/m**
Grid 7 **M4** **27.69 dBV/m**	Grid 8 **M4** **27.8 dBV/m**	Grid 9 **M4** **28.28 dBV/m**



0 dB = 25.93 V/m = 28.28 dBV/m

HAC-RF Emission

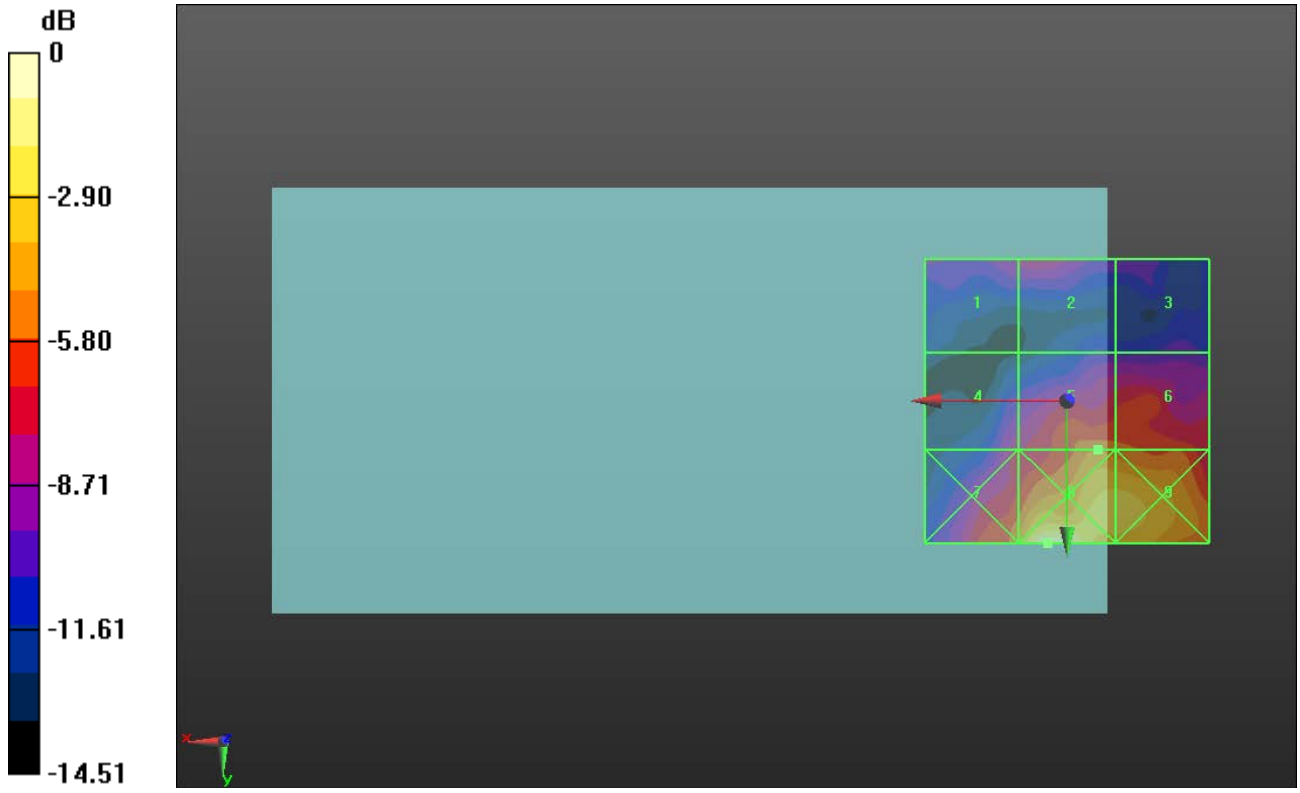
Communication System: UID 10295 - AAA, CDMA2000, RC1, SO3, 1/8th Rate 25 fr.; Frequency: 1851.25 MHz; Duty Cycle: 1:17.7419
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 2/14/2014;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1360; Calibrated: 3/17/2014
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

CDMA BC1 E-Field measurement/RC1_SO3_Ch 25/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 6.360 V/m; Power Drift = 0.74 dB
Applied MIF = 3.26 dB
RF audio interference level = 21.02 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **17.61 dBV/m**	Grid 2 **M4** **18.47 dBV/m**	Grid 3 **M4** **16.49 dBV/m**
Grid 4 **M4** **18.16 dBV/m**	Grid 5 **M4** **21.02 dBV/m**	Grid 6 **M4** **20.6 dBV/m**
Grid 7 **M4** **21.35 dBV/m**	Grid 8 **M4** **25.94 dBV/m**	Grid 9 **M4** **23.48 dBV/m**



0 dB = 19.81 V/m = 25.94 dBV/m

Test Laboratory: UL Verification Services Inc. SAR Lab C Date: 5/20/2014

HAC-RF Emission

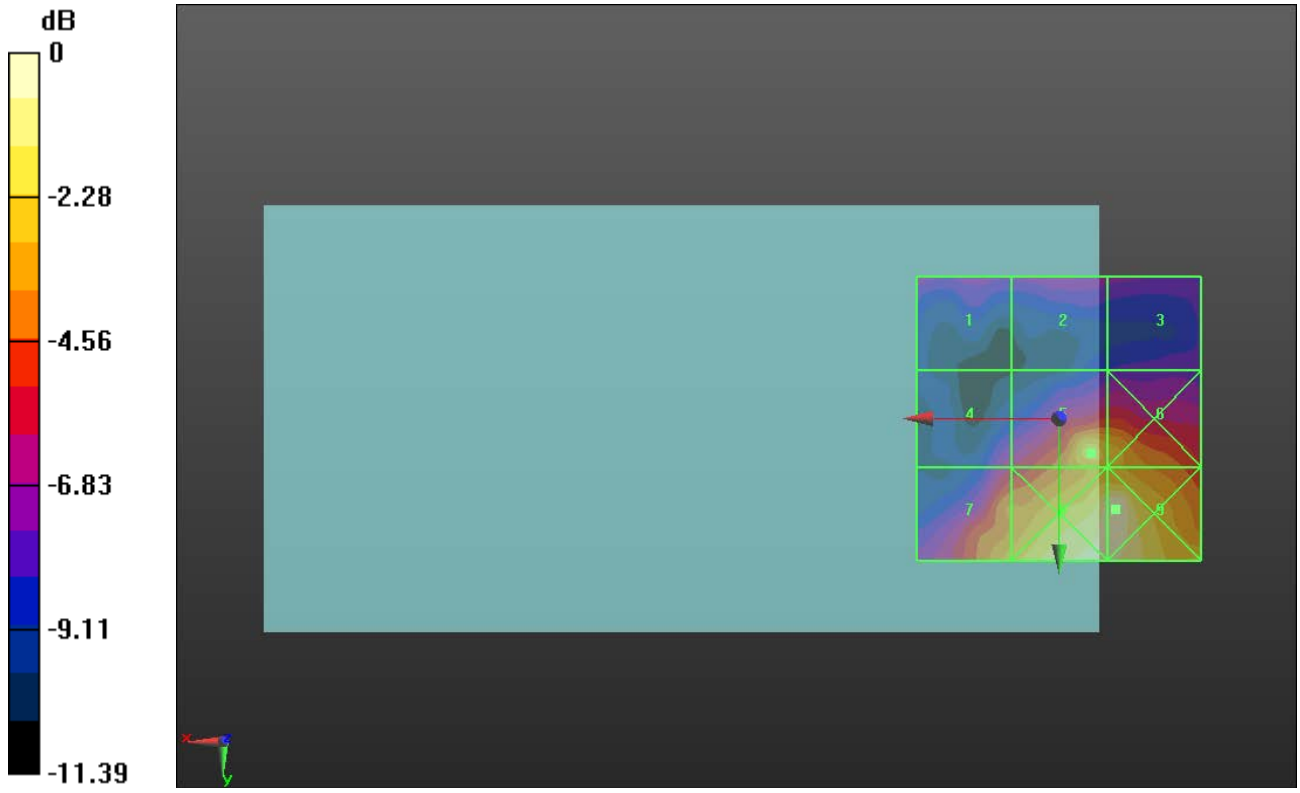
Communication System: UID 10295 - AAA, CDMA2000, RC1, SO3, 1/8th Rate 25 fr.; Frequency: 1880 MHz; Duty Cycle: 1:17.7419
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 2/14/2014;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1360; Calibrated: 3/17/2014
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

CDMA BC1 E-Field measurement/RC1_SO3_Ch 600/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 5.458 V/m; Power Drift = -0.24 dB
Applied MIF = 3.26 dB
RF audio interference level = 20.94 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **15.85 dBV/m**	Grid 2 **M4** **16.07 dBV/m**	Grid 3 **M4** **15.54 dBV/m**
Grid 4 **M4** **16.58 dBV/m**	Grid 5 **M4** **20.94 dBV/m**	Grid 6 **M4** **20.22 dBV/m**
Grid 7 **M4** **20.13 dBV/m**	Grid 8 **M4** **22.35 dBV/m**	Grid 9 **M4** **22.68 dBV/m**



0 dB = 13.61 V/m = 22.68 dBV/m

Test Laboratory: UL Verification Services Inc. SAR Lab C Date: 5/20/2014

HAC-RF Emission

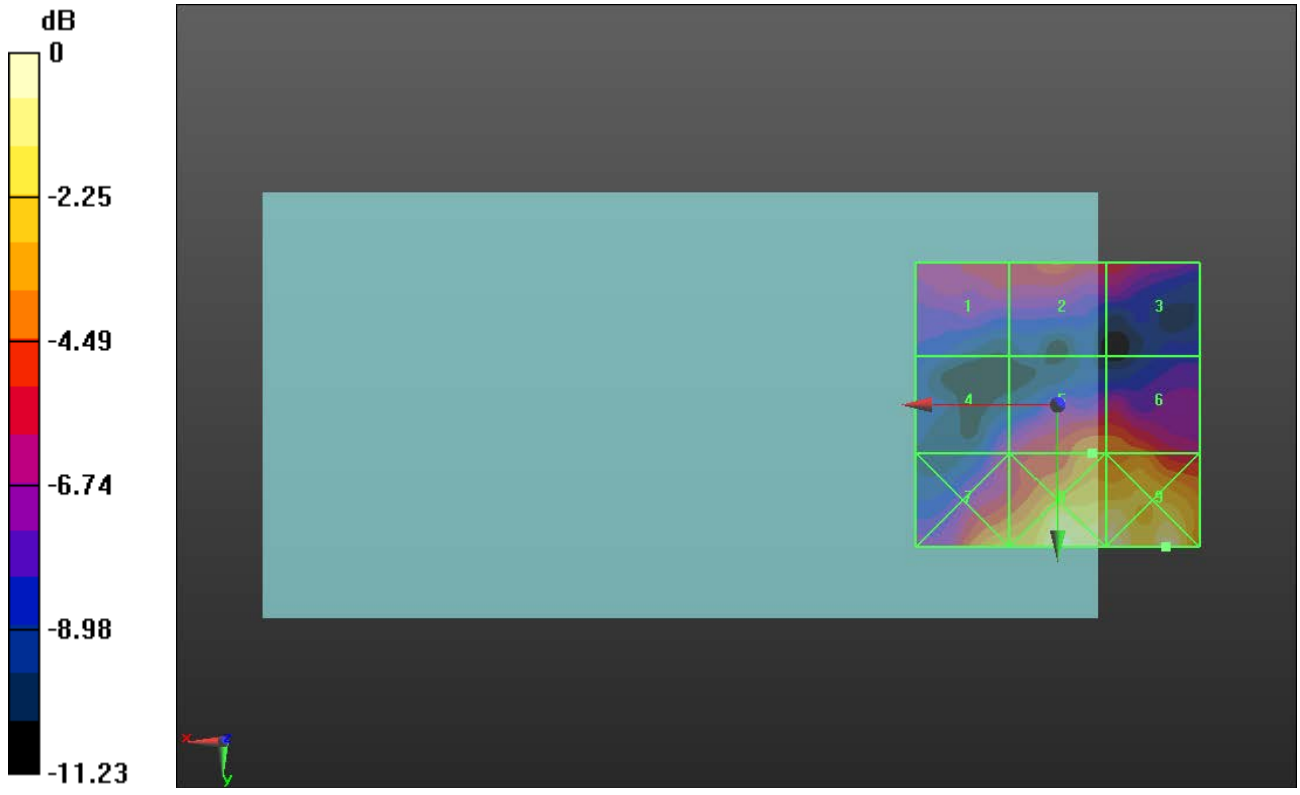
Communication System: UID 10295 - AAA, CDMA2000, RC1, SO3, 1/8th Rate 25 fr.; Frequency: 1908.75 MHz; Duty Cycle: 1:17.7419
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 2/14/2014;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1360; Calibrated: 3/17/2014
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

CDMA BC1 E-Field measurement/RC1_SO3_Ch 1175/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 4.188 V/m; Power Drift = 0.79 dB
Applied MIF = 3.26 dB
RF audio interference level = 19.06 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **17.17 dBV/m**	Grid 2 **M4** **18.33 dBV/m**	Grid 3 **M4** **17.5 dBV/m**
Grid 4 **M4** **16.29 dBV/m**	Grid 5 **M4** **19.06 dBV/m**	Grid 6 **M4** **18.76 dBV/m**
Grid 7 **M4** **20.34 dBV/m**	Grid 8 **M4** **22.34 dBV/m**	Grid 9 **M4** **22.65 dBV/m**



0 dB = 13.56 V/m = 22.65 dBV/m