Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2017/5/21

#01_HAC_E_GSM850_GSM Voice_Ch189

Communication System: GSM-FDD (TDMA, GMSK); Frequency: 836.6 MHz;Duty Cycle: 1:8.3
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3
Ambient Temperature：23.6 ℃

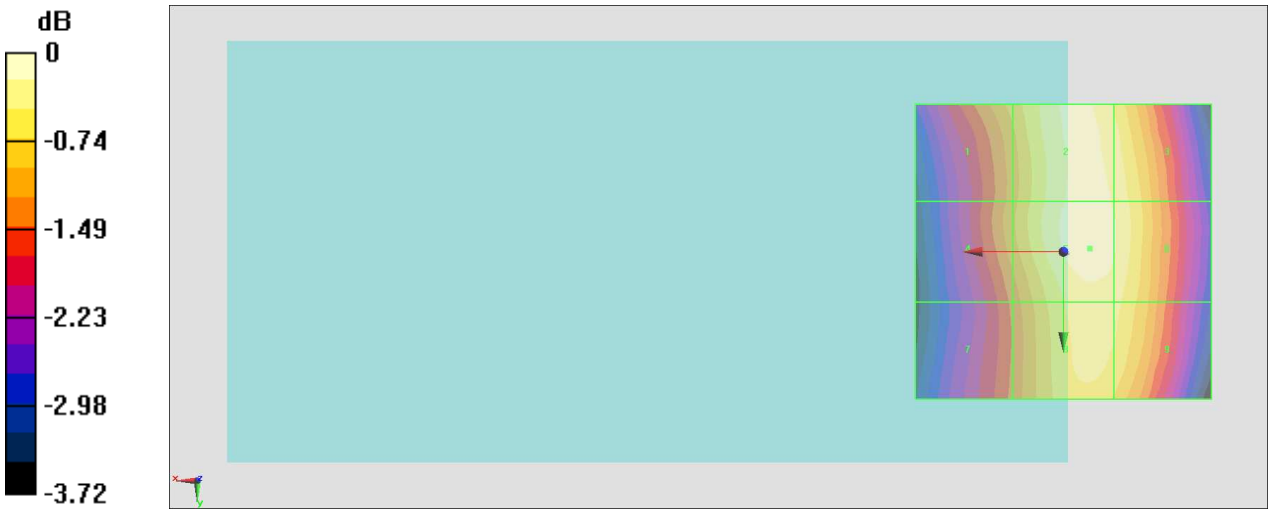
DASY5 Configuration:
- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2017/1/19;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn853; Calibrated: 2016/7/11
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7373)

Ch189/E Scan - ER3D: 15 mm from Probe Center to the Device/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 = 38.88 V/m; Power Drift = -0.01 dB
Applied MIF = 3.63 dB
RF audio interference level = 33.77 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **32.91 dBV/m**	Grid 2 **M4** **33.63 dBV/m**	Grid 3 **M4** **33.5 dBV/m**
Grid 4 **M4** **32.75 dBV/m**	Grid 5 **M4** **33.77 dBV/m**	Grid 6 **M4** **33.56 dBV/m**
Grid 7 **M4** **32.38 dBV/m**	Grid 8 **M4** **33.47 dBV/m**	Grid 9 **M4** **33.36 dBV/m**

Cursor:
Total = 33.77 dBV/m
E Category: M4
Location: -4.5, -0.5, 8.7 mm



0 dB = 48.81 V/m = 33.77 dBV/m

#02_HAC_E_GSM1900_GSM Voice_Ch512

Communication System: GSM-FDD (TDMA, GMSK); Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3
Ambient Temperature：23.6 ℃

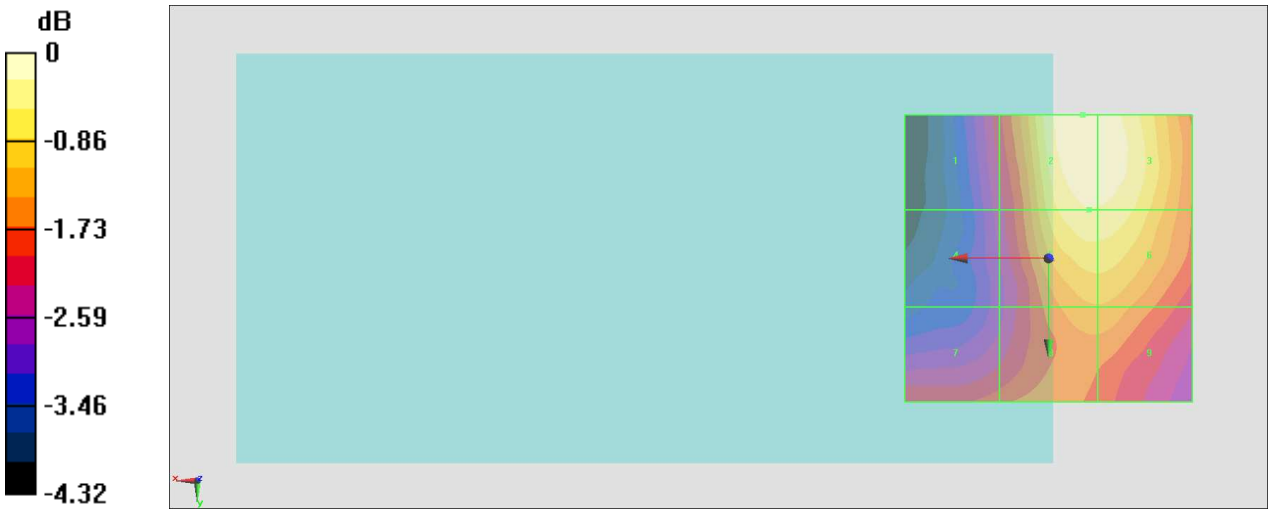
DASY5 Configuration:
- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2017/1/19;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn853; Calibrated: 2016/7/11
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7373)

Ch512/E Scan - ER3D: 15 mm from Probe Center to the Device/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 = 14.62 V/m; Power Drift = 0.02 dB
Applied MIF = 3.63 dB
RF audio interference level = 26.89 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **24.82 dBV/m**	Grid 2 **M4** **26.89 dBV/m**	Grid 3 **M4** **26.83 dBV/m**
Grid 4 **M4** **24.48 dBV/m**	Grid 5 **M4** **26.59 dBV/m**	Grid 6 **M4** **26.58 dBV/m**
Grid 7 **M4** **25.06 dBV/m**	Grid 8 **M4** **25.71 dBV/m**	Grid 9 **M4** **25.71 dBV/m**

Cursor:
Total = 26.89 dBV/m
E Category: M4
Location: -6, -25, 8.7 mm



0 dB = 22.10 V/m = 26.89 dBV/m

#03_HAC_E_CDMA BC0_ 1xRTT, RC1 SO3, 18th Rate_Ch1013

Communication System: CDMA2000, RC1, SO3, 1/8th Rate 25 fr.; Frequency: 824.7 MHz;Duty Cycle: 1:8.3
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3
Ambient Temperature：23.6 ℃

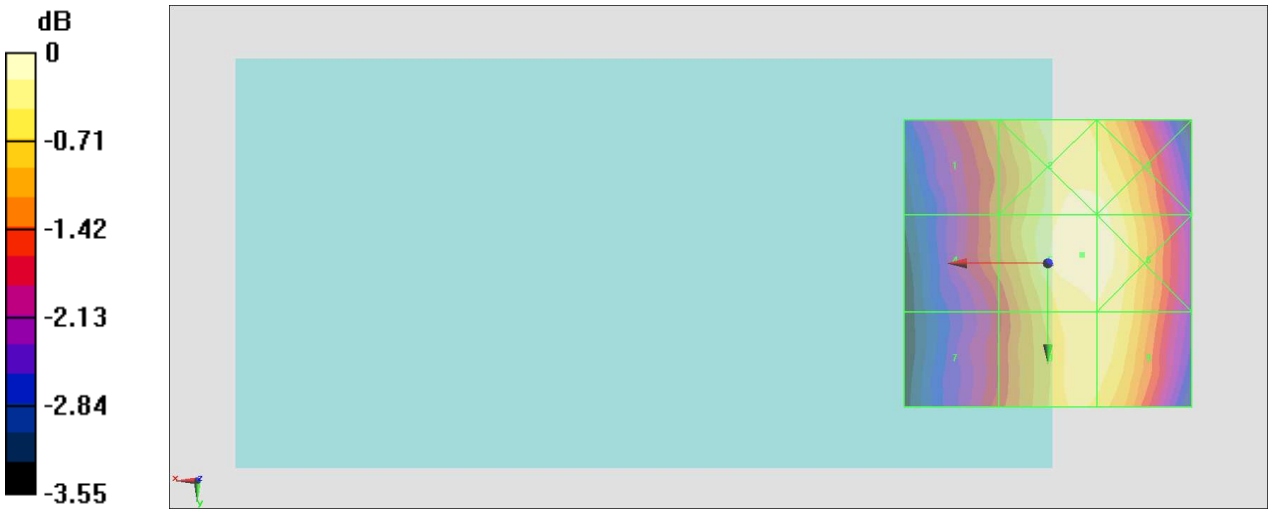
DASY5 Configuration:
- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2017/1/19;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn853; Calibrated: 2016/7/11
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7373)

Ch1013/E Scan - ER3D: 15 mm from Probe Center to the Device/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 = 15.64 V/m; Power Drift = 0.04 dB
Applied MIF = 3.26 dB
RF audio interference level = 25.75 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **24.72 dBV/m**	Grid 2 **M4** **25.66 dBV/m**	Grid 3 **M4** **25.64 dBV/m**
Grid 4 **M4** **24.53 dBV/m**	Grid 5 **M4** **25.75 dBV/m**	Grid 6 **M4** **25.71 dBV/m**
Grid 7 **M4** **24.24 dBV/m**	Grid 8 **M4** **25.5 dBV/m**	Grid 9 **M4** **25.5 dBV/m**

Cursor:
Total = 25.75 dBV/m
E Category: M4
Location: -6, -1.5, 8.7 mm



0 dB = 19.39 V/m = 25.75 dBV/m

#04_HAC_E_CDMA BC1_ 1xRTT, RC1 SO3, 18th Rate_Ch600

Communication System: CDMA2000, RC1, SO3, 1/8th Rate 25 fr.; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3
Ambient Temperature：23.6 ℃

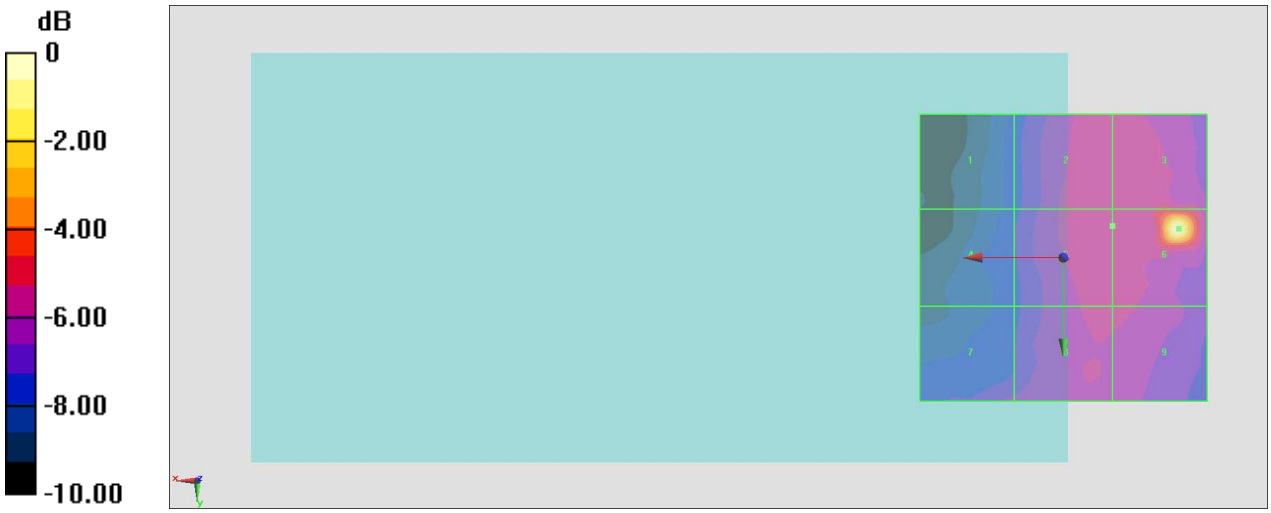
DASY5 Configuration:
- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2017/1/19;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn853; Calibrated: 2016/7/11
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7373)

Ch600/E Scan - ER3D: 15 mm from Probe Center to the Device/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 = 10.76 V/m; Power Drift = -0.08 dB
Applied MIF = 3.26 dB
RF audio interference level = 26.57 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **19.03 dBV/m**	Grid 2 **M4** **21.19 dBV/m**	Grid 3 **M4** **21.52 dBV/m**
Grid 4 **M4** **19.27 dBV/m**	Grid 5 **M4** **21.21 dBV/m**	Grid 6 **M4** **26.57 dBV/m**
Grid 7 **M4** **20.17 dBV/m**	Grid 8 **M4** **20.78 dBV/m**	Grid 9 **M4** **20.78 dBV/m**

Cursor:
Total = 26.57 dBV/m
E Category: M4
Location: -20, -5, 8.7 mm



0 dB = 21.31 V/m = 26.57 dBV/m

#05_HAC_E_CDMA BC10_ 1xRTT, RC1 SO3, 18th Rate_Ch684

Communication System: CDMA2000, RC1, SO3, 1/8th Rate 25 fr.; Frequency: 823.1 MHz;Duty Cycle: 1:8.3
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3
Ambient Temperature：23.6 ℃

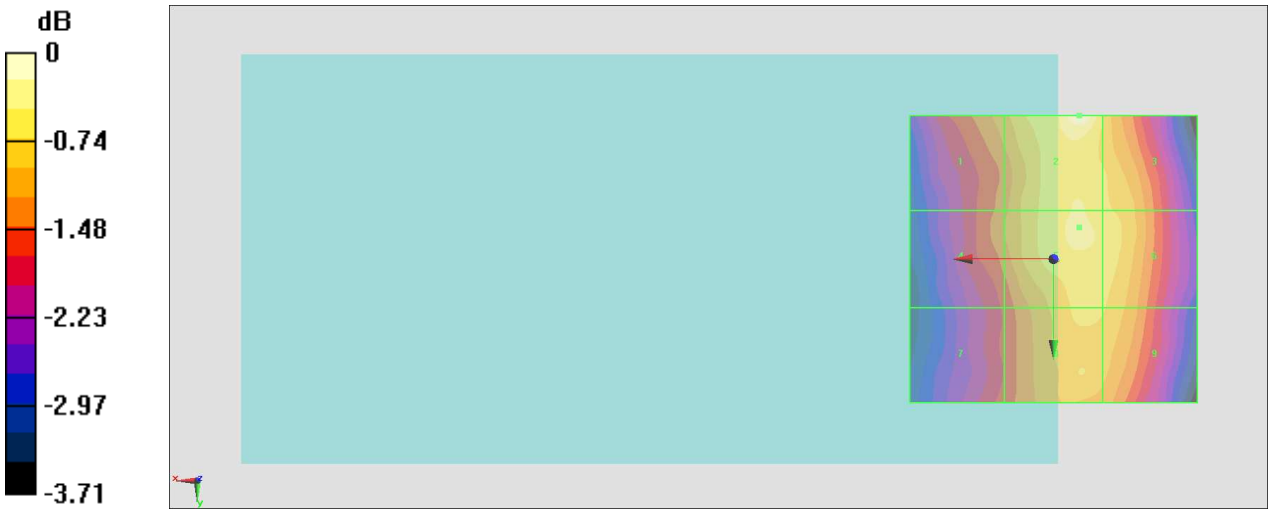
DASY5 Configuration:
- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2017/1/19;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn853; Calibrated: 2016/7/11
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7373)

Ch684/E Scan - ER3D: 15 mm from Probe Center to the Device/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 = 15.33 V/m; Power Drift = 0.00 dB
Applied MIF = 3.26 dB
RF audio interference level = 25.72 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **24.66 dBV/m**	Grid 2 **M4** **25.72 dBV/m**	Grid 3 **M4** **25.11 dBV/m**
Grid 4 **M4** **24.49 dBV/m**	Grid 5 **M4** **25.26 dBV/m**	Grid 6 **M4** **25.21 dBV/m**
Grid 7 **M4** **24.13 dBV/m**	Grid 8 **M4** **25.08 dBV/m**	Grid 9 **M4** **25.01 dBV/m**

Cursor:
Total = 25.72 dBV/m
E Category: M4
Location: -4.5, -25, 8.7 mm



0 dB = 19.33 V/m = 25.72 dBV/m

#06_HAC_E_LTE Band 38_20M_QPSK_1_0_Ch38150

Communication System: LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 2610 MHz;Duty Cycle: 1:1.59
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3
Ambient Temperature：23.6 ℃

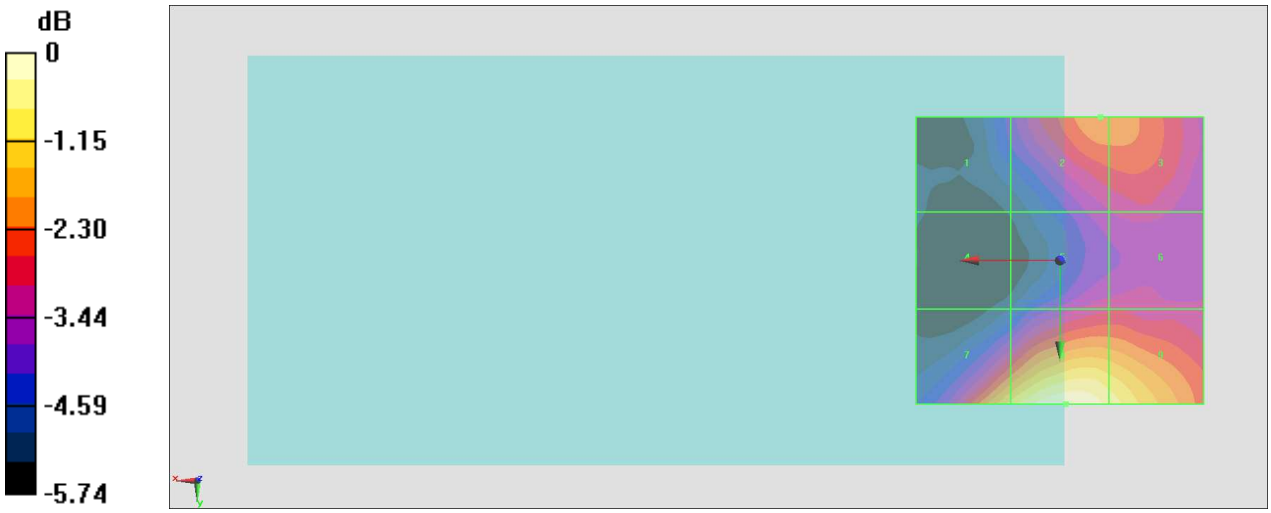
DASY5 Configuration:
- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2017/1/19;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn853; Calibrated: 2016/7/11
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7373)

Ch38150/E Scan - ER3D: 15 mm from Probe Center to the Device/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 = 7.109 V/m; Power Drift = 0.05 dB
Applied MIF = -1.62 dB
RF audio interference level = 19.51 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **15.53 dBV/m**	Grid 2 **M4** **17.56 dBV/m**	Grid 3 **M4** **17.54 dBV/m**
Grid 4 **M4** **14.61 dBV/m**	Grid 5 **M4** **16.41 dBV/m**	Grid 6 **M4** **16.44 dBV/m**
Grid 7 **M4** **18.56 dBV/m**	Grid 8 **M4** **19.51 dBV/m**	Grid 9 **M4** **19.01 dBV/m**

Cursor:
Total = 19.51 dBV/m
E Category: M4
Location: -1, 25, 8.7 mm



0 dB = 9.455 V/m = 19.51 dBV/m

#07_HAC_E_LTE Band 41_20M_QPSK_1_0_Ch41490

Communication System: LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 2680 MHz;Duty Cycle: 1:1.59
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3
Ambient Temperature：23.6 ℃

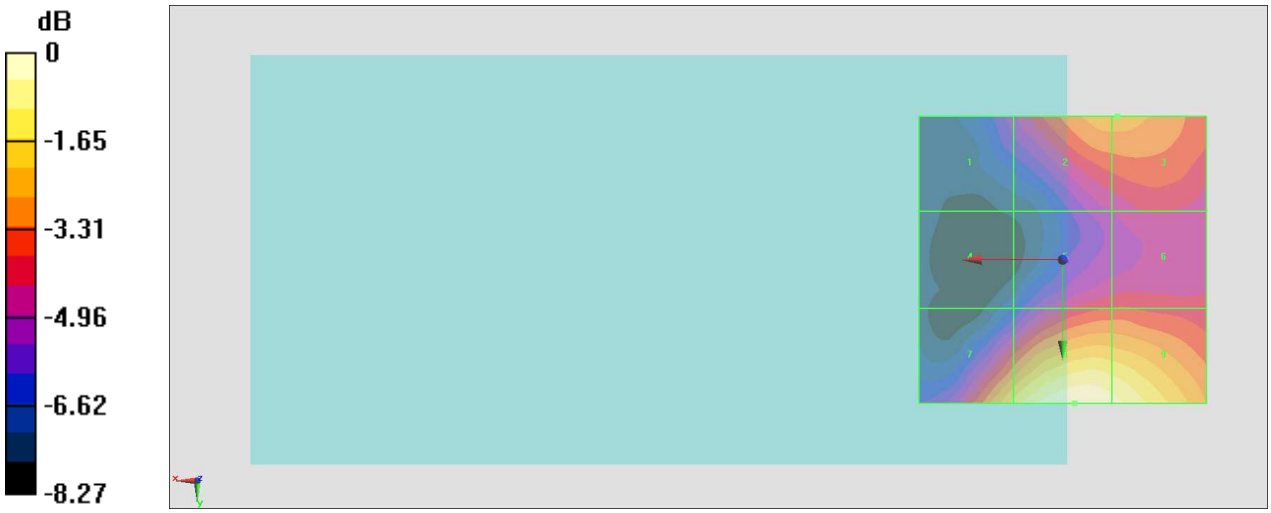
DASY5 Configuration:
- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2017/1/19;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn853; Calibrated: 2016/7/11
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7373)

Ch41490/E Scan - ER3D: 15 mm from Probe Center to the Device/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 = 7.001 V/m; Power Drift = 0.05 dB
Applied MIF = -1.62 dB
RF audio interference level = 21.21 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **16.11 dBV/m**	Grid 2 **M4** **18.78 dBV/m**	Grid 3 **M4** **18.78 dBV/m**
Grid 4 **M4** **14.71 dBV/m**	Grid 5 **M4** **17.42 dBV/m**	Grid 6 **M4** **17.46 dBV/m**
Grid 7 **M4** **19.82 dBV/m**	Grid 8 **M4** **21.21 dBV/m**	Grid 9 **M4** **20.87 dBV/m**

Cursor:
Total = 21.21 dBV/m
E Category: M4
Location: -2, 25, 8.7 mm



0 dB = 11.50 V/m = 21.21 dBV/m