

## #01\_HAC\_E\_GSM850\_GSM Voice\_Ch128

Communication System: GSM-FDD (TDMA, GMSK); Frequency: 824.2 MHz; Duty Cycle: 1:8.6896

Medium: Air Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.6 °C

### DASY5 Configuration

- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2014/1/30;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn778; Calibrated: 2013/8/21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

### Ch128/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 = 67.39 V/m; Power Drift = -0.06 dB

Applied MIF = 3.63 dB

RF audio interference level = 38.37 dBV/m

**Emission category: M4**

MIF scaled E-field

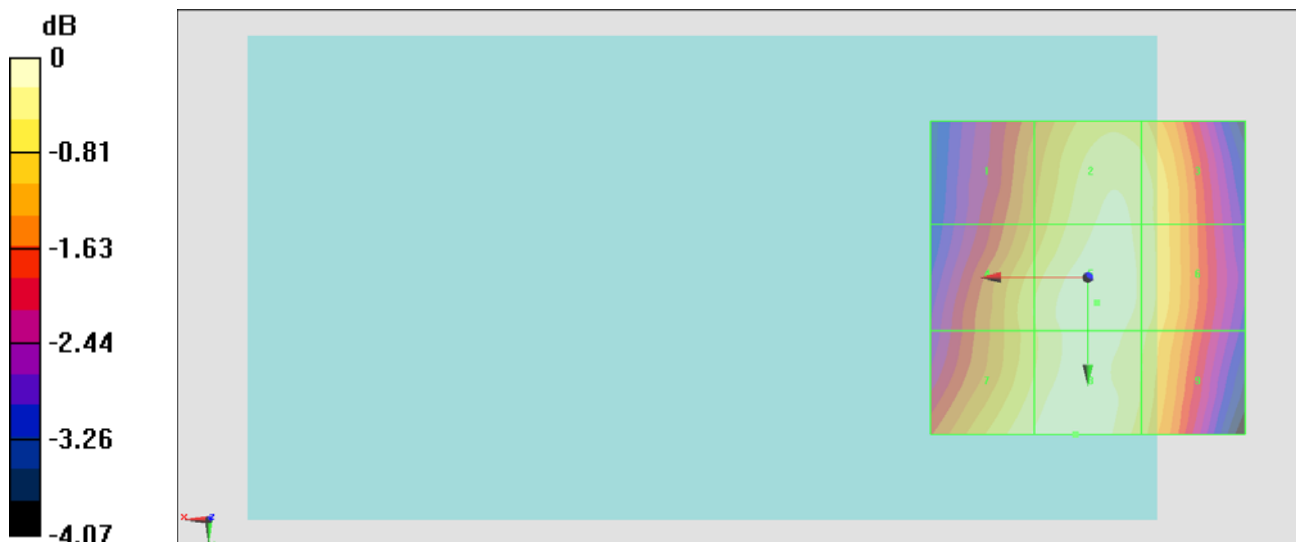
Grid 1 <b>M4</b> <b>37.34 dBV/m</b>	Grid 2 <b>M4</b> <b>38.17 dBV/m</b>	Grid 3 <b>M4</b> <b>38.01 dBV/m</b>
Grid 4 <b>M4</b> <b>37.85 dBV/m</b>	Grid 5 <b>M4</b> <b>38.29 dBV/m</b>	Grid 6 <b>M4</b> <b>38.05 dBV/m</b>
Grid 7 <b>M4</b> <b>38.14 dBV/m</b>	Grid 8 <b>M4</b> <b>38.37 dBV/m</b>	Grid 9 <b>M4</b> <b>37.92 dBV/m</b>

**Cursor:**

Total = 38.37 dBV/m

E Category: M4

Location: 2, 25, 8.7 mm



$$0 \text{ dB} = 82.89 \text{ V/m} = 38.37 \text{ dBV/m}$$

## #02\_HAC\_E\_GSM850\_GSM Voice\_Ch189

Communication System: GSM-FDD (TDMA, GMSK); Frequency: 836.6 MHz; Duty Cycle: 1:8.6896

Medium: Air Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.6 °C

### DASY5 Configuration

- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2014/1/30;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn778; Calibrated: 2013/8/21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

### 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 = 61.78 V/m; Power Drift = -0.02 dB

Applied MIF = 3.63 dB

RF audio interference level = 37.81 dBV/m

**Emission category: M4**

MIF scaled E-field

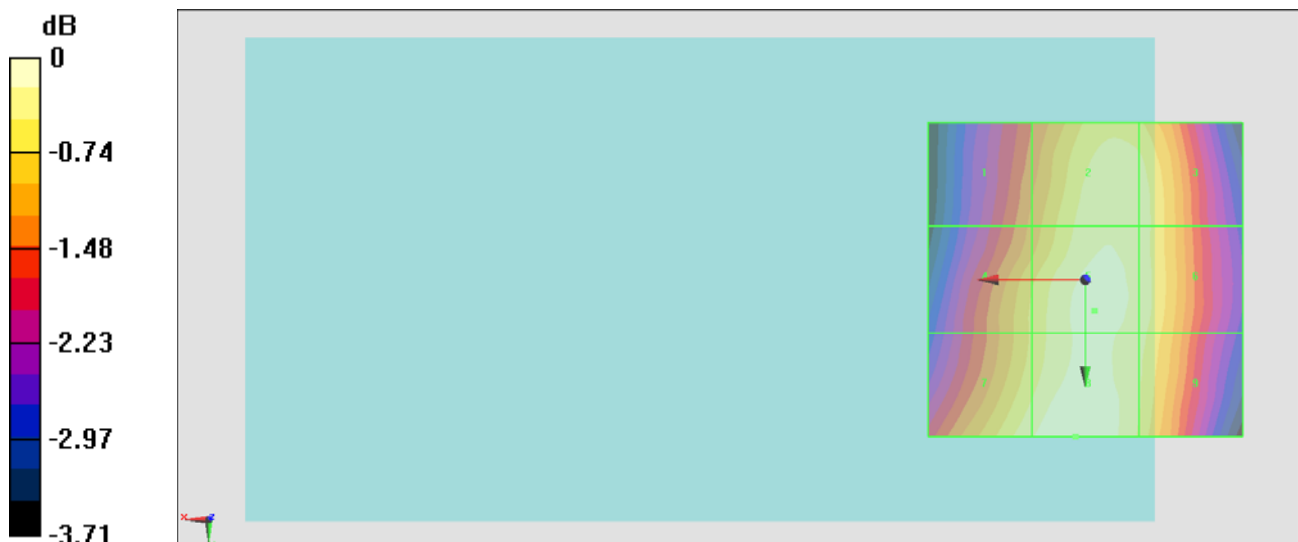
Grid 1 <b>M4</b> <b>36.66 dBV/m</b>	Grid 2 <b>M4</b> <b>37.55 dBV/m</b>	Grid 3 <b>M4</b> <b>37.47 dBV/m</b>
Grid 4 <b>M4</b> <b>37.12 dBV/m</b>	Grid 5 <b>M4</b> <b>37.67 dBV/m</b>	Grid 6 <b>M4</b> <b>37.49 dBV/m</b>
Grid 7 <b>M4</b> <b>37.54 dBV/m</b>	Grid 8 <b>M4</b> <b>37.81 dBV/m</b>	Grid 9 <b>M4</b> <b>37.42 dBV/m</b>

**Cursor:**

Total = 37.81 dBV/m

E Category: M4

Location: 1.5, 25, 8.7 mm



$$0 \text{ dB} = 77.68 \text{ V/m} = 37.81 \text{ dBV/m}$$

### #03\_HAC\_E\_GSM850\_GSM Voice\_Ch251

Communication System: GSM-FDD (TDMA, GMSK); Frequency: 848.6 MHz; Duty Cycle: 1:8.6896  
 Medium: Air Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Ambient Temperature : 23.6 °C

#### DASY5 Configuration

- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2014/1/30;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn778; Calibrated: 2013/8/21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

#### Ch251/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 = 60.35 V/m; Power Drift = -0.00 dB

Applied MIF = 3.63 dB

RF audio interference level = 37.56 dBV/m

**Emission category: M4**

MIF scaled E-field

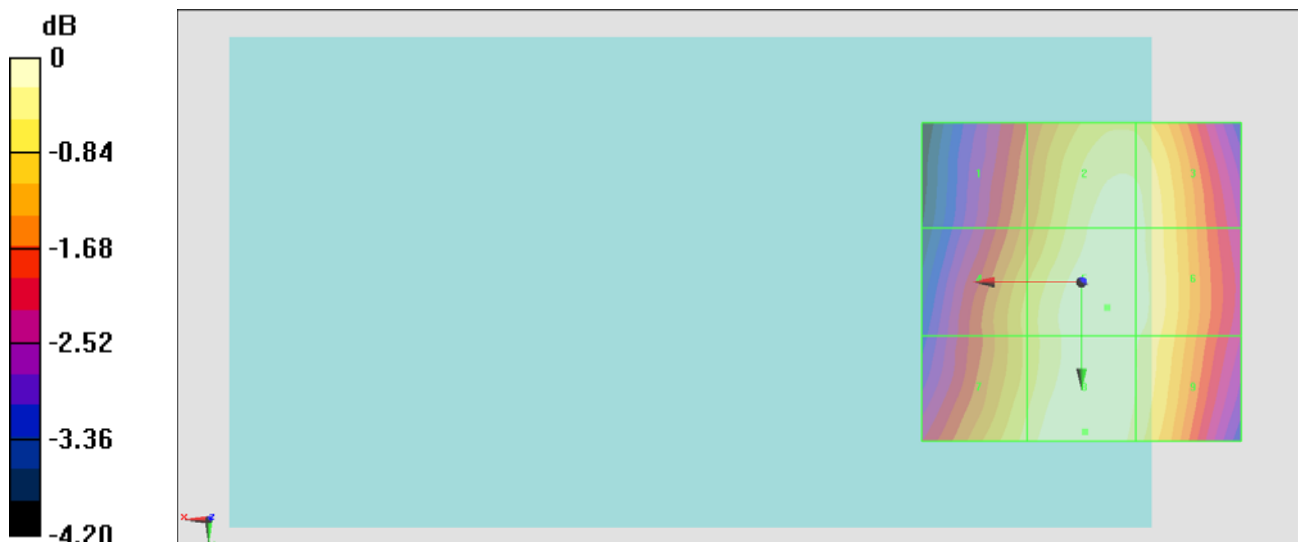
Grid 1 <b>M4</b> <b>36.31 dBV/m</b>	Grid 2 <b>M4</b> <b>37.43 dBV/m</b>	Grid 3 <b>M4</b> <b>37.37 dBV/m</b>
Grid 4 <b>M4</b> <b>36.84 dBV/m</b>	Grid 5 <b>M4</b> <b>37.55 dBV/m</b>	Grid 6 <b>M4</b> <b>37.44 dBV/m</b>
Grid 7 <b>M4</b> <b>37.13 dBV/m</b>	Grid 8 <b>M4</b> <b>37.56 dBV/m</b>	Grid 9 <b>M4</b> <b>37.33 dBV/m</b>

**Cursor:**

Total = 37.56 dBV/m

E Category: M4

Location: -0.5, 23.5, 8.7 mm



$$0 \text{ dB} = 75.51 \text{ V/m} = 37.56 \text{ dBV/m}$$

## #04\_HAC\_E\_GSM1900\_GSM Voice\_Ch512

Communication System: GSM-FDD (TDMA, GMSK); Frequency: 1850.2 MHz; Duty Cycle: 1:8.6896

Medium: Air Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.6 °C

### DASY5 Configuration

- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2014/1/30;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn778; Calibrated: 2013/8/21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

### 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 = 11.43 V/m; Power Drift = -0.17 dB

Applied MIF = 3.63 dB

RF audio interference level = 29.46 dBV/m

**Emission category: M4**

MIF scaled E-field

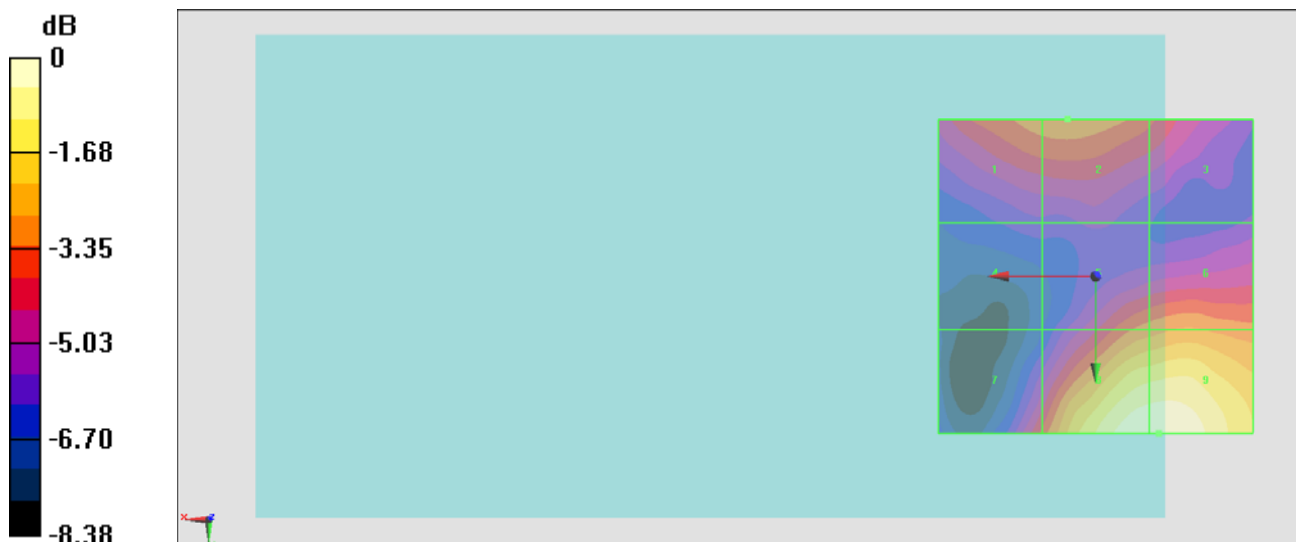
Grid 1 <b>M4</b> <b>26.43 dBV/m</b>	Grid 2 <b>M4</b> <b>26.52 dBV/m</b>	Grid 3 <b>M4</b> <b>25.71 dBV/m</b>
Grid 4 <b>M4</b> <b>23.72 dBV/m</b>	Grid 5 <b>M4</b> <b>26.4 dBV/m</b>	Grid 6 <b>M4</b> <b>26.74 dBV/m</b>
Grid 7 <b>M4</b> <b>25.76 dBV/m</b>	Grid 8 <b>M4</b> <b>29.43 dBV/m</b>	Grid 9 <b>M4</b> <b>29.46 dBV/m</b>

**Cursor:**

Total = 29.46 dBV/m

E Category: M4

Location: -10, 25, 8.7 mm



$$0 \text{ dB} = 29.70 \text{ V/m} = 29.46 \text{ dBV/m}$$



### #05\_HAC\_E\_GSM1900\_GSM Voice\_Ch661

Communication System: GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz; Duty Cycle: 1:8.6896

Medium: Air Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.6 °C

#### DASY5 Configuration

- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2014/1/30;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn778; Calibrated: 2013/8/21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

#### Ch661/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 = 10.51 V/m; Power Drift = -0.16 dB

Applied MIF = 3.63 dB

RF audio interference level = 30.04 dBV/m

**Emission category: M3**

MIF scaled E-field

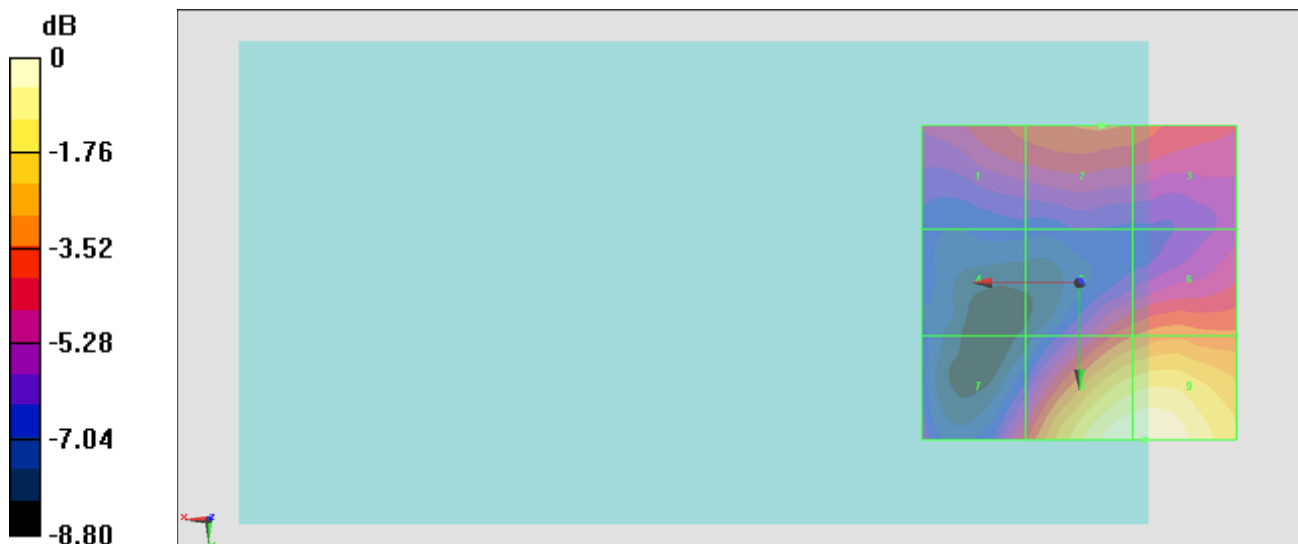
Grid 1 <b>M4</b> <b>26.14 dBV/m</b>	Grid 2 <b>M4</b> <b>26.64 dBV/m</b>	Grid 3 <b>M4</b> <b>26.38 dBV/m</b>
Grid 4 <b>M4</b> <b>23.52 dBV/m</b>	Grid 5 <b>M4</b> <b>26.51 dBV/m</b>	Grid 6 <b>M4</b> <b>27 dBV/m</b>
Grid 7 <b>M4</b> <b>25.93 dBV/m</b>	Grid 8 <b>M4</b> <b>30 dBV/m</b>	Grid 9 <b>M3</b> <b>30.04 dBV/m</b>

**Cursor:**

Total = 30.04 dBV/m

E Category: M3

Location: -10.5, 25, 8.7 mm



$$0 \text{ dB} = 31.76 \text{ V/m} = 30.04 \text{ dBV/m}$$

## #06\_HAC\_E\_GSM1900\_GSM Voice\_Ch810

Communication System: GSM-FDD (TDMA, GMSK); Frequency: 1909.8 MHz; Duty Cycle: 1:8.6896

Medium: Air Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.6 °C

### DASY5 Configuration

- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2014/1/30;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn778; Calibrated: 2013/8/21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

### Ch810/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 = 9.691 V/m; Power Drift = -0.17 dB

Applied MIF = 3.63 dB

RF audio interference level = 29.26 dBV/m

**Emission category: M4**

MIF scaled E-field

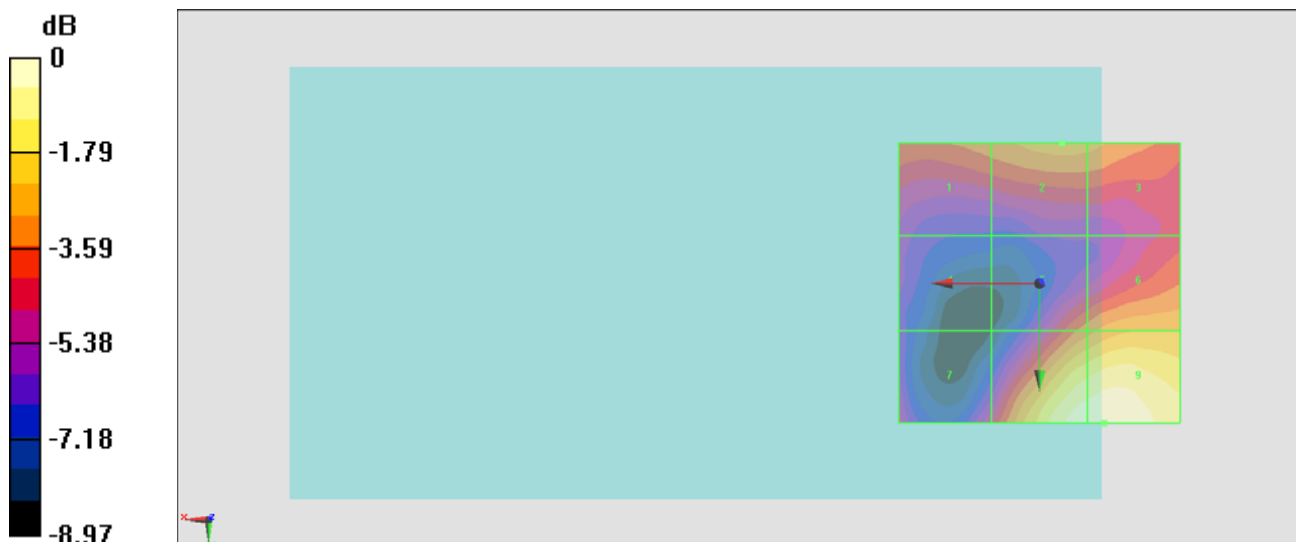
Grid 1 <b>M4</b> <b>26.02 dBV/m</b>	Grid 2 <b>M4</b> <b>26.62 dBV/m</b>	Grid 3 <b>M4</b> <b>26.51 dBV/m</b>
Grid 4 <b>M4</b> <b>23.74 dBV/m</b>	Grid 5 <b>M4</b> <b>26.05 dBV/m</b>	Grid 6 <b>M4</b> <b>26.88 dBV/m</b>
Grid 7 <b>M4</b> <b>24.58 dBV/m</b>	Grid 8 <b>M4</b> <b>29.13 dBV/m</b>	Grid 9 <b>M4</b> <b>29.26 dBV/m</b>

**Cursor:**

Total = 29.26 dBV/m

E Category: M4

Location: -11.5, 25, 8.7 mm



$$0 \text{ dB} = 29.05 \text{ V/m} = 29.26 \text{ dBV/m}$$