

## #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 Sn1388; Calibrated: 2014/9/24
- 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 = 71.43 V/m; Power Drift = -0.08 dB

Applied MIF = 3.63 dB

RF audio interference level = 38.52 dBV/m

**Emission category: M4**

MIF scaled E-field

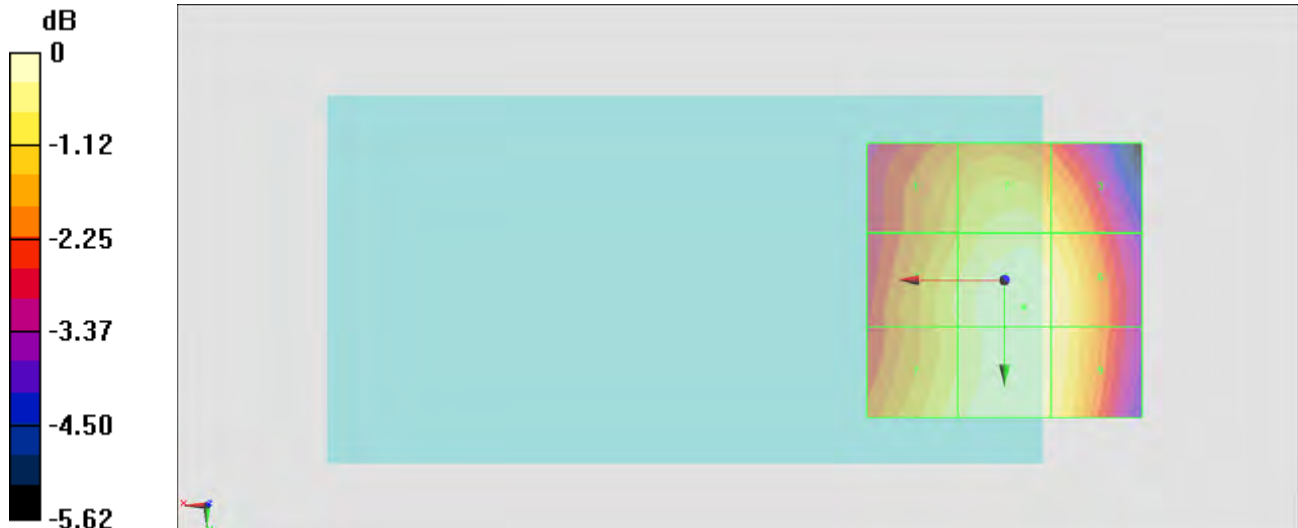
Grid 1 <b>M4</b> <b>37.4 dBV/m</b>	Grid 2 <b>M4</b> <b>38.03 dBV/m</b>	Grid 3 <b>M4</b> <b>37.74 dBV/m</b>
Grid 4 <b>M4</b> <b>37.87 dBV/m</b>	Grid 5 <b>M4</b> <b>38.52 dBV/m</b>	Grid 6 <b>M4</b> <b>38.27 dBV/m</b>
Grid 7 <b>M4</b> <b>38.04 dBV/m</b>	Grid 8 <b>M4</b> <b>38.49 dBV/m</b>	Grid 9 <b>M4</b> <b>38.23 dBV/m</b>

**Cursor:**

Total = 38.52 dBV/m

E Category: M4

Location: -3.5, 5, 8.7 mm



0 dB = 84.36 V/m = 38.52 dBV/m

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

Communication System: GSM-FDD (TDMA, GMSK); Frequency: 836.4 MHz; Duty Cycle: 1:8.6896

Medium: Air Medium parameters used:  $\sigma = 0 \text{ S/m}$ ,  $\epsilon_r = 1$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 23.6 °C

### DASY5 Configuration

- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2014/1/30;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1388; Calibrated: 2014/9/24
- 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 = 80.89 V/m; Power Drift = -0.04 dB

Applied MIF = 3.63 dB

RF audio interference level = 39.63 dBV/m

**Emission category: M4**

MIF scaled E-field

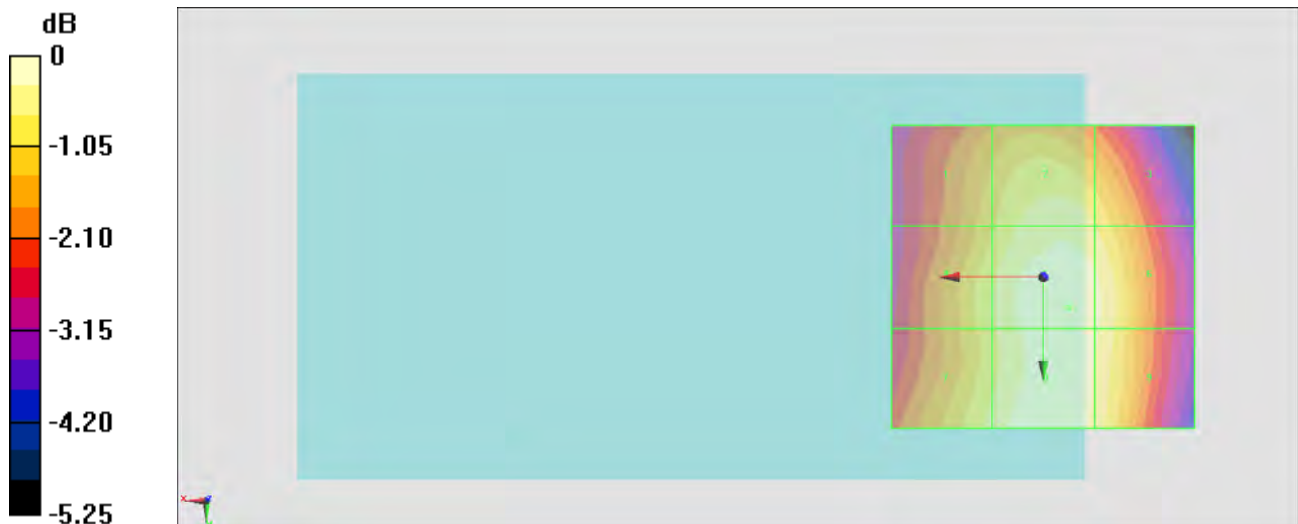
Grid 1 <b>M4</b> <b>38.53 dBV/m</b>	Grid 2 <b>M4</b> <b>39.21 dBV/m</b>	Grid 3 <b>M4</b> <b>38.95 dBV/m</b>
Grid 4 <b>M4</b> <b>38.94 dBV/m</b>	Grid 5 <b>M4</b> <b>39.63 dBV/m</b>	Grid 6 <b>M4</b> <b>39.4 dBV/m</b>
Grid 7 <b>M4</b> <b>39.08 dBV/m</b>	Grid 8 <b>M4</b> <b>39.61 dBV/m</b>	Grid 9 <b>M4</b> <b>39.35 dBV/m</b>

**Cursor:**

Total = 39.63 dBV/m

E Category: M4

Location: -4, 5, 8.7 mm



0 dB = 95.83 V/m = 39.63 dBV/m

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

Communication System: GSM-FDD (TDMA, GMSK); Frequency: 848.8 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 Sn1388; Calibrated: 2014/9/24
- 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 = 82.42 V/m; Power Drift = 0.18 dB

Applied MIF = 3.63 dB

RF audio interference level = 39.84 dBV/m

**Emission category: M4**

MIF scaled E-field

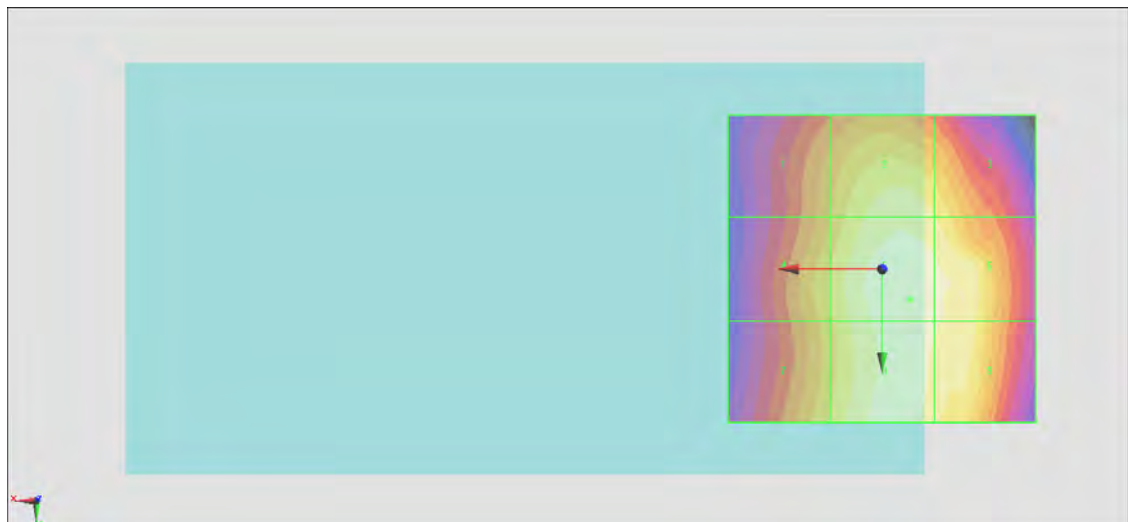
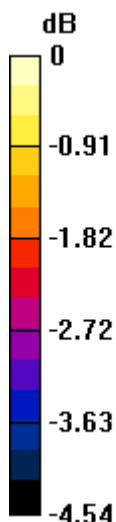
Grid 1 <b>M4</b> <b>38.62 dBV/m</b>	Grid 2 <b>M4</b> <b>39.47 dBV/m</b>	Grid 3 <b>M4</b> <b>39.25 dBV/m</b>
Grid 4 <b>M4</b> <b>38.97 dBV/m</b>	Grid 5 <b>M4</b> <b>39.84 dBV/m</b>	Grid 6 <b>M4</b> <b>39.65 dBV/m</b>
Grid 7 <b>M4</b> <b>38.99 dBV/m</b>	Grid 8 <b>M4</b> <b>39.78 dBV/m</b>	Grid 9 <b>M4</b> <b>39.59 dBV/m</b>

**Cursor:**

Total = 39.84 dBV/m

E Category: M4

Location: -4.5, 5, 8.7 mm



0 dB = 98.19 V/m = 39.84 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 Sn1388; Calibrated: 2014/9/24
- 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 = 22.51 V/m; Power Drift = 0.12 dB

Applied MIF = 3.63 dB

RF audio interference level = 31.34 dBV/m

**Emission category: M3**

MIF scaled E-field

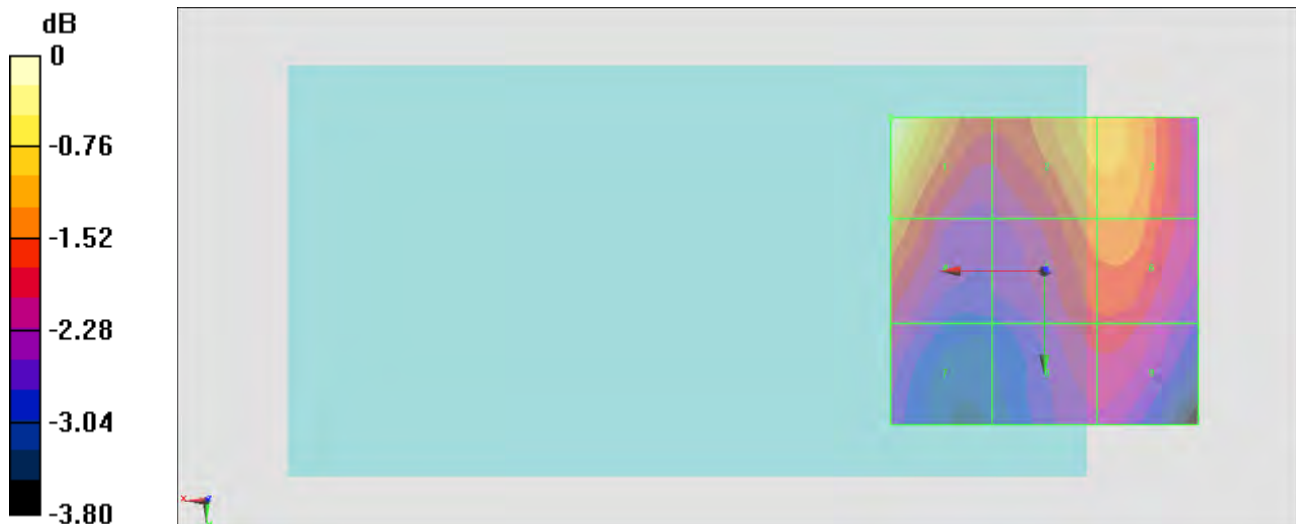
Grid 1 <b>M3</b> <b>31.34 dBV/m</b>	Grid 2 <b>M3</b> <b>30.47 dBV/m</b>	Grid 3 <b>M3</b> <b>30.48 dBV/m</b>
Grid 4 <b>M3</b> <b>30.24 dBV/m</b>	Grid 5 <b>M3</b> <b>30.03 dBV/m</b>	Grid 6 <b>M3</b> <b>30.09 dBV/m</b>
Grid 7 <b>M4</b> <b>29.37 dBV/m</b>	Grid 8 <b>M4</b> <b>29.5 dBV/m</b>	Grid 9 <b>M4</b> <b>29.52 dBV/m</b>

**Cursor:**

Total = 31.34 dBV/m

E Category: M3

Location: 25, -25, 8.7 mm



0 dB = 36.88 V/m = 31.34 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:  $\sigma = 0 \text{ S/m}$ ,  $\epsilon_r = 1$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 23.6 °C

#### DASY5 Configuration

- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2014/1/30;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1388; Calibrated: 2014/9/24
- 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 = 24.70 V/m; Power Drift = -0.10 dB

Applied MIF = 3.63 dB

RF audio interference level = 31.99 dBV/m

**Emission category: M3**

MIF scaled E-field

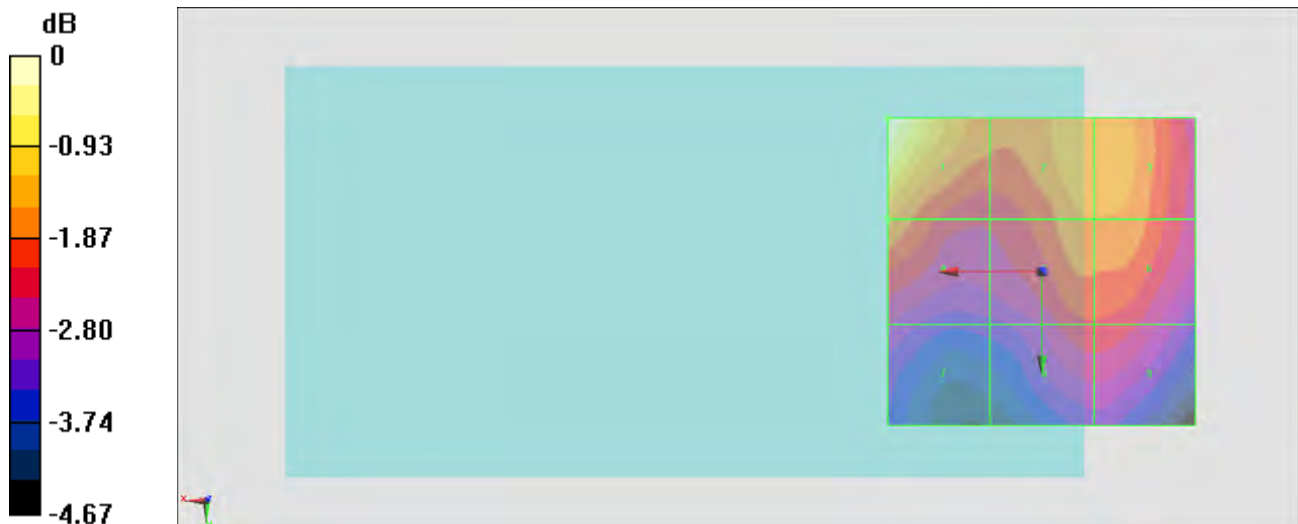
Grid 1 <b>M3</b> <b>31.99 dBV/m</b>	Grid 2 <b>M3</b> <b>30.73 dBV/m</b>	Grid 3 <b>M3</b> <b>30.73 dBV/m</b>
Grid 4 <b>M3</b> <b>30.56 dBV/m</b>	Grid 5 <b>M3</b> <b>30.43 dBV/m</b>	Grid 6 <b>M3</b> <b>30.43 dBV/m</b>
Grid 7 <b>M4</b> <b>29.26 dBV/m</b>	Grid 8 <b>M4</b> <b>29.78 dBV/m</b>	Grid 9 <b>M4</b> <b>29.78 dBV/m</b>

**Cursor:**

Total = 31.99 dBV/m

E Category: M3

Location: 25, -25, 8.7 mm



0 dB = 39.76 V/m = 31.99 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:  $\sigma = 0 \text{ S/m}$ ,  $\epsilon_r = 1$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 23.6 °C

### DASY5 Configuration

- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2014/1/30;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1388; Calibrated: 2014/9/24
- 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 = 26.34 V/m; Power Drift = 0.02 dB

Applied MIF = 3.63 dB

RF audio interference level = 31.75 dBV/m

**Emission category: M3**

MIF scaled E-field

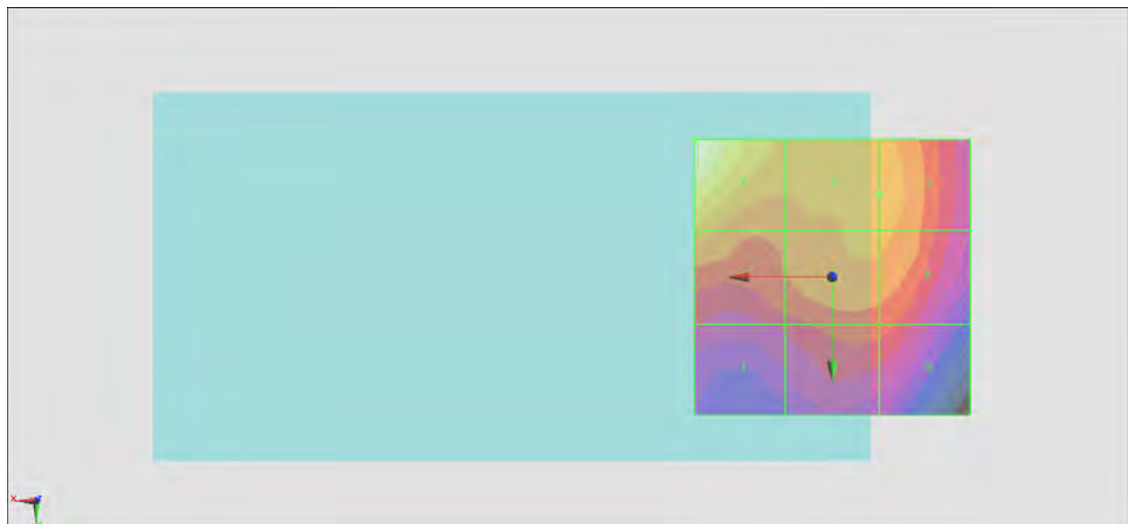
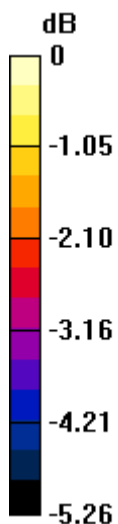
Grid 1 <b>M3</b> <b>31.75 dBV/m</b>	Grid 2 <b>M3</b> <b>30.26 dBV/m</b>	Grid 3 <b>M3</b> <b>30.18 dBV/m</b>
Grid 4 <b>M3</b> <b>30.33 dBV/m</b>	Grid 5 <b>M3</b> <b>30.09 dBV/m</b>	Grid 6 <b>M3</b> <b>30.08 dBV/m</b>
Grid 7 <b>M4</b> <b>29.09 dBV/m</b>	Grid 8 <b>M4</b> <b>29.53 dBV/m</b>	Grid 9 <b>M4</b> <b>29.48 dBV/m</b>

**Cursor:**

Total = 31.75 dBV/m

E Category: M3

Location: 25, -25, 8.7 mm



0 dB = 38.69 V/m = 31.75 dBV/m