

Test Laboratory: Compliance Certification Services

GSM1900 HAC_ER_Device

DUT: Intermecc; Type: CN50; Serial: 328V0800138

Communication System: DCS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 2/9/2009

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn427; Calibrated: 10/20/2008

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 100x

- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - L-ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 57.3 V/m

Probe Modulation Factor = 2.75

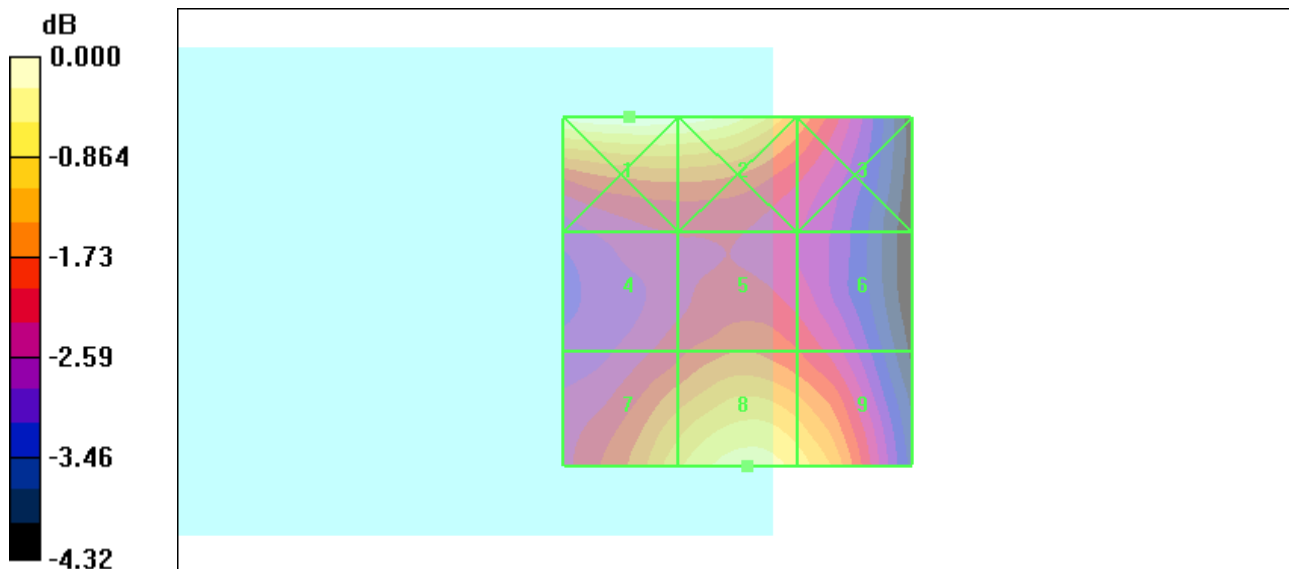
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 20.3 V/m; Power Drift = 0.004 dB

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

Peak E-field in V/m

Grid 1 60.1 M3	Grid 2 59.5 M3	Grid 3 51.0 M3
Grid 4 47.2 M4	Grid 5 49.3 M3	Grid 6 47.8 M3
Grid 7 54.0 M3	Grid 8 57.3 M3	Grid 9 55.7 M3



0 dB = 60.1V/m

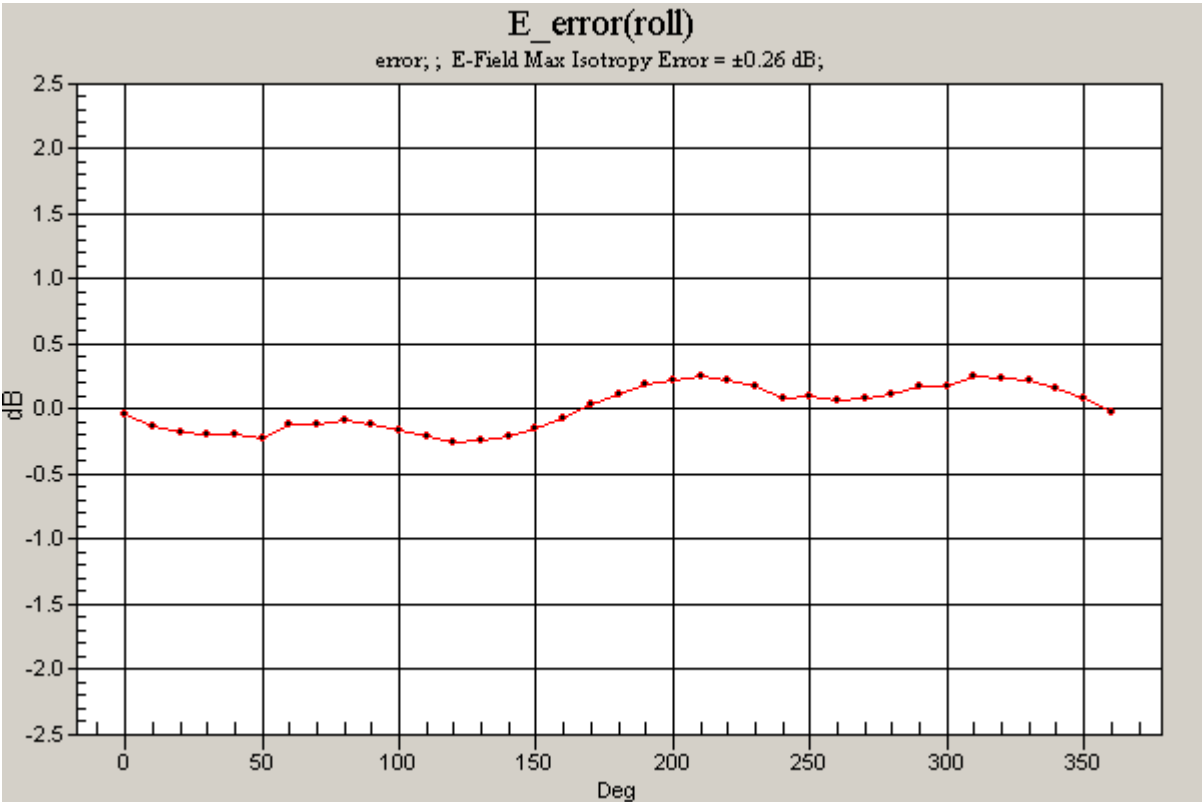
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GSM1900 HAC_ER_Device

DUT: Intermec; Type: CN50; Serial: 328V0800138

Communication System: DCS 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:8

E Scan - L-ch/Rotation (1D): 37 rotation steps; E-Field Max Isotropy Error = ± 0.26 dB;



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GSM1900 HAC_ER_Device

DUT: Intermecc; Type: CN50; Serial: 328V0800138

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 2/9/2009

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn427; Calibrated: 10/20/2008

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 100x

- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - M-ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 50.0 V/m

Probe Modulation Factor = 2.75

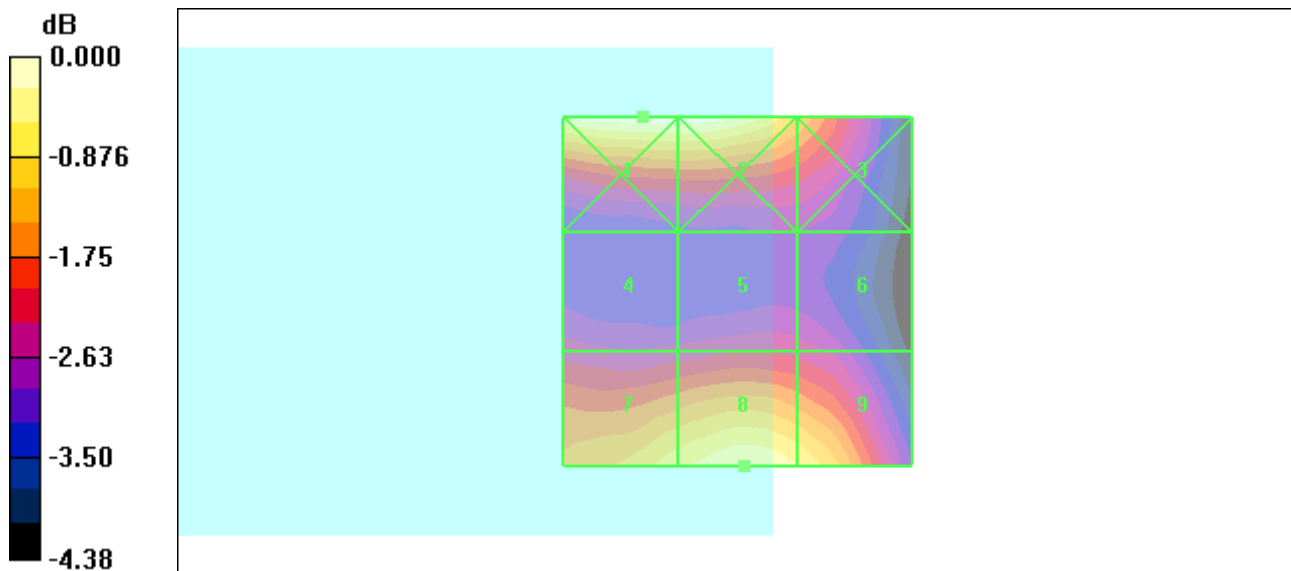
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 15.1 V/m; Power Drift = -0.009 dB

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

Peak E-field in V/m

Grid 1 51.6 M3	Grid 2 51.5 M3	Grid 3 45.3 M4
Grid 4 39.0 M4	Grid 5 39.4 M4	Grid 6 39.0 M4
Grid 7 47.9 M3	Grid 8 50.0 M3	Grid 9 48.4 M3



0 dB = 51.6V/m

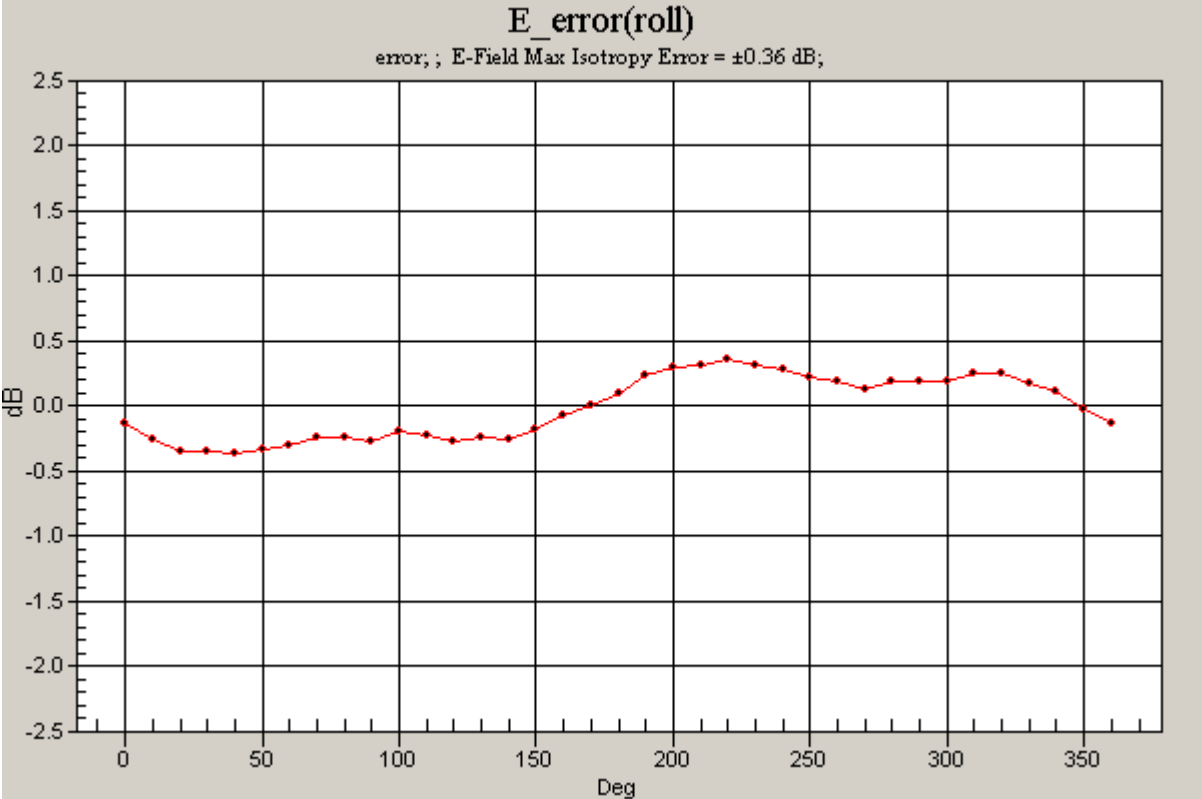
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GSM1900 HAC_ER_Device

DUT: Intermecc; Type: CN50; Serial: 328V0800138

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8

E Scan - M-ch/Rotation (1D): 37 rotation steps; E-Field Max Isotropy Error = ± 0.36 dB;



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GSM1900 HAC_ER_Device

DUT: Intermecc; Type: CN50; Serial: 328V0800138

Communication System: DCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 2/9/2009

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn427; Calibrated: 10/20/2008

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 100x

- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - H-ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 46.7 V/m

Probe Modulation Factor = 2.75

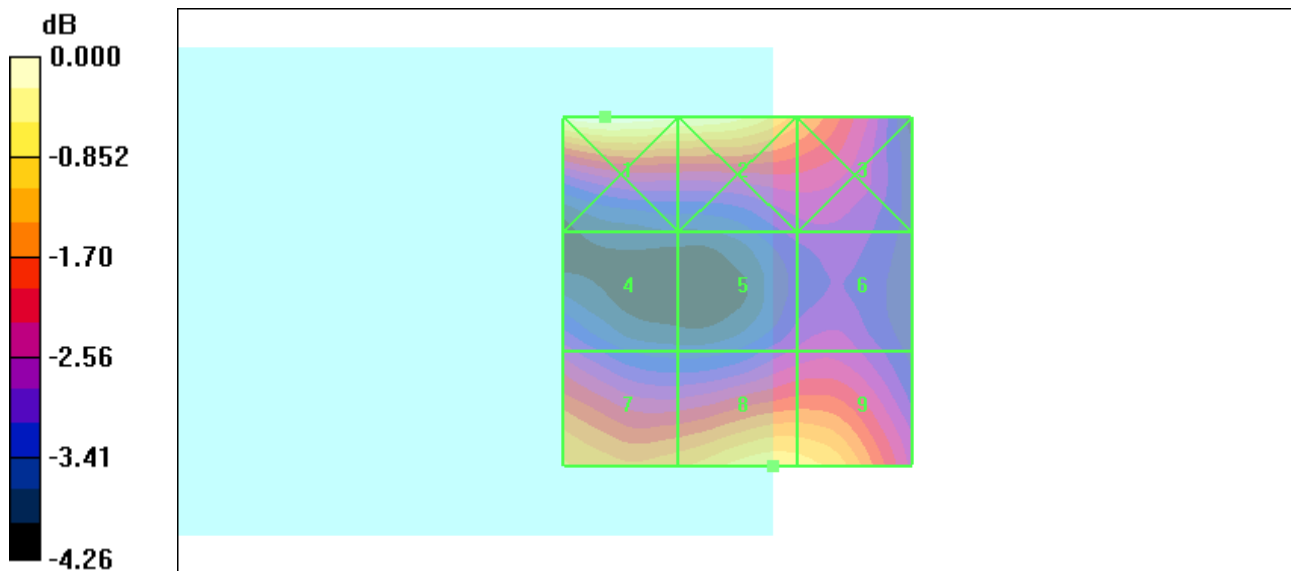
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 13.1 V/m; Power Drift = -0.095 dB

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

Peak E-field in V/m

Grid 1 50.2 M3	Grid 2 49.0 M3	Grid 3 43.5 M4
Grid 4 36.9 M4	Grid 5 36.5 M4	Grid 6 37.1 M4
Grid 7 44.3 M4	Grid 8 46.7 M4	Grid 9 46.4 M4



0 dB = 50.2V/m

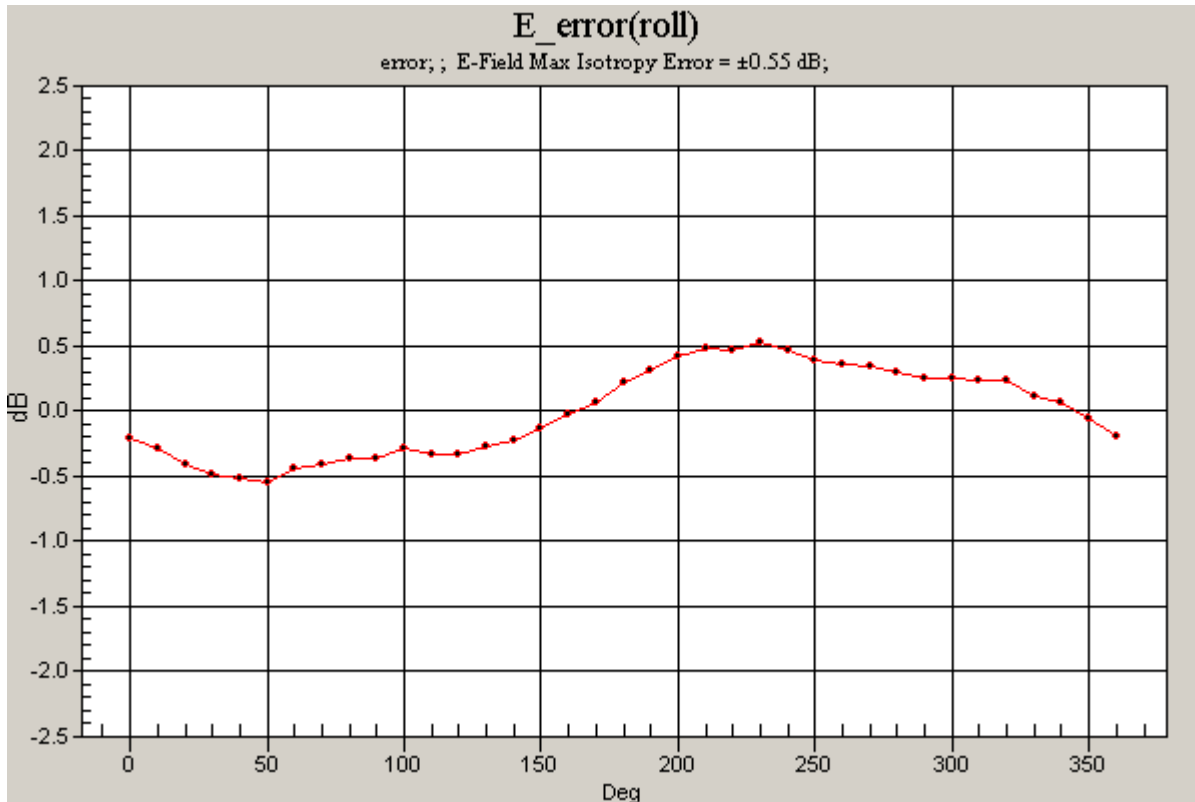
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GSM1900 HAC_ER_Device

DUT: Intermecc; Type: CN50; Serial: 328V0800138

Communication System: DCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8

E Scan - H-ch/Rotation (1D): 37 rotation steps; E-Field Max Isotropy Error = ± 0.55 dB;



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GSM1900 HAC_H3DV6_Device

DUT: Intermecc; Type: CN50; Serial: 328V0800138

Communication System: GSM1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6157; ; Calibrated: 2/10/2009
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn427; Calibrated: 10/20/2008
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 100x
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - L-ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.161 A/m

Probe Modulation Factor = 2.75

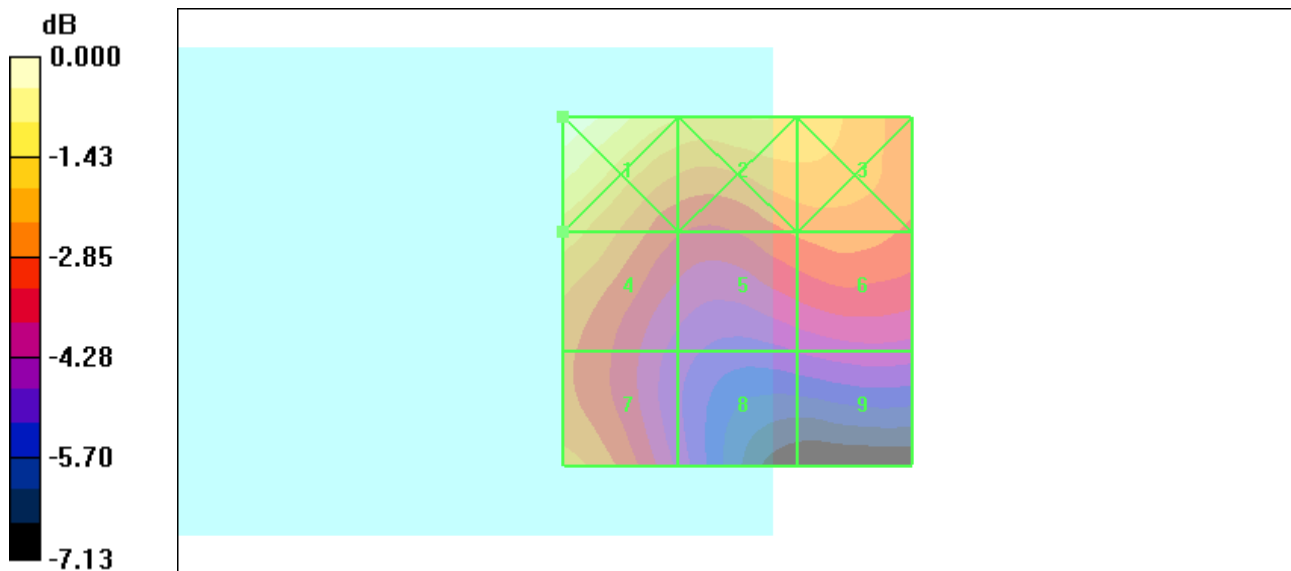
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.053 A/m; Power Drift = -0.043 dB

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

Peak H-field in A/m

Grid 1 0.195 M3	Grid 2 0.167 M3	Grid 3 0.164 M3
Grid 4 0.161 M3	Grid 5 0.142 M3	Grid 6 0.144 M3
Grid 7 0.154 M3	Grid 8 0.118 M4	Grid 9 0.117 M4



0 dB = 0.195A/m

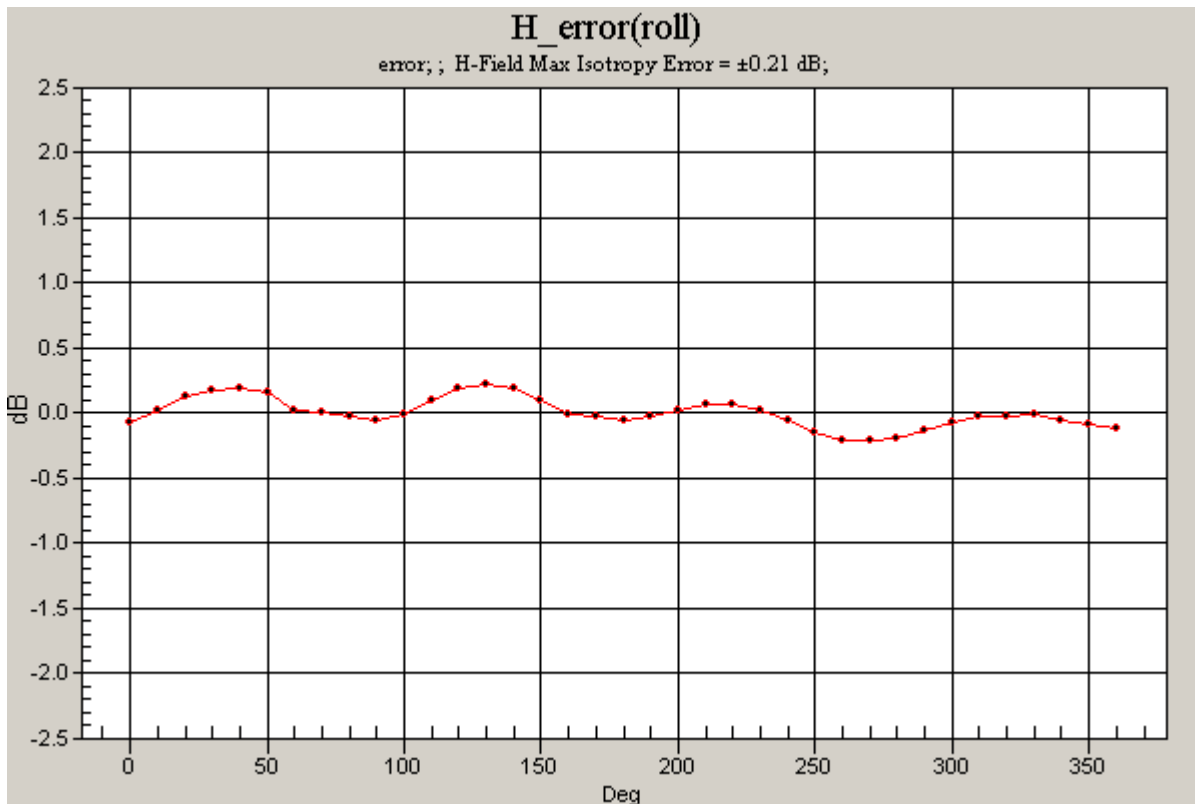
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GSM1900 HAC_H3DV6_Device

DUT: Intermec; Type: CN50; Serial: 328V0800138

Communication System: GSM1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8

H Scan - L-ch/Rotation (1D): 37 rotation steps; H-Field Max Isotropy Error = ± 0.21 dB;



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GSM1900 HAC_H3DV6_Device

DUT: Intermecc; Type: CN50; Serial: 328V0800138

Communication System: GSM1900; Frequency: 1880 MHz; Duty Cycle: 1:8

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6157; ; Calibrated: 2/10/2009

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn427; Calibrated: 10/20/2008

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 100x

- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - M-ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.145 A/m

Probe Modulation Factor = 2.75

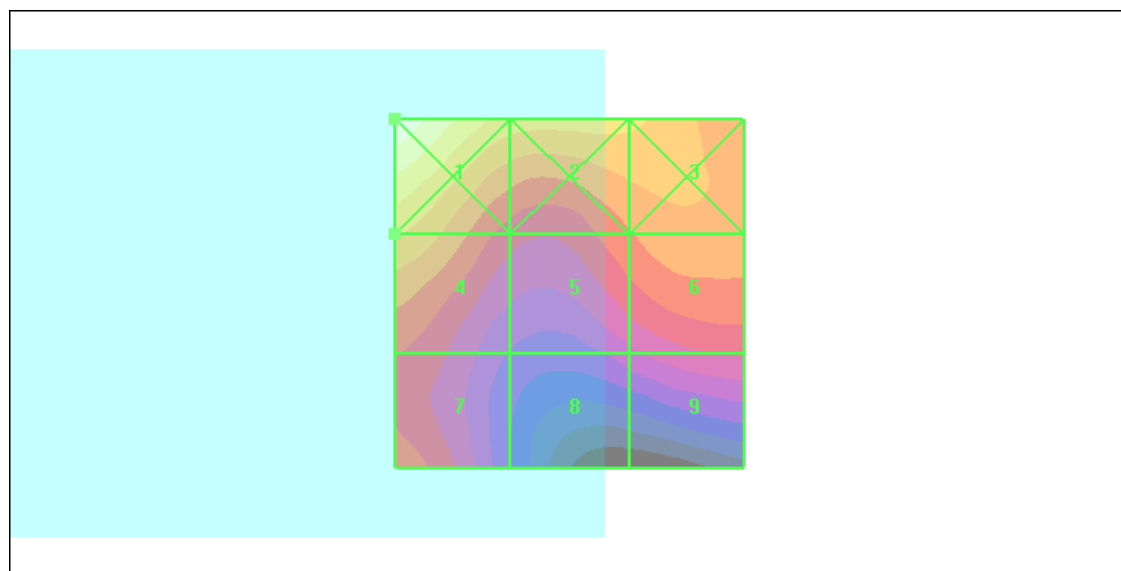
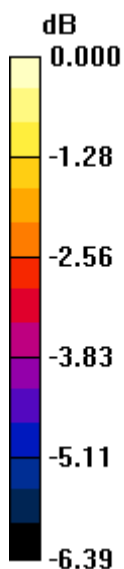
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.048 A/m; Power Drift = 0.062 dB

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

Peak H-field in A/m

Grid 1 0.175 M3	Grid 2 0.148 M3	Grid 3 0.146 M3
Grid 4 0.145 M3	Grid 5 0.130 M4	Grid 6 0.135 M4
Grid 7 0.130 M4	Grid 8 0.111 M4	Grid 9 0.119 M4



0 dB = 0.175A/m

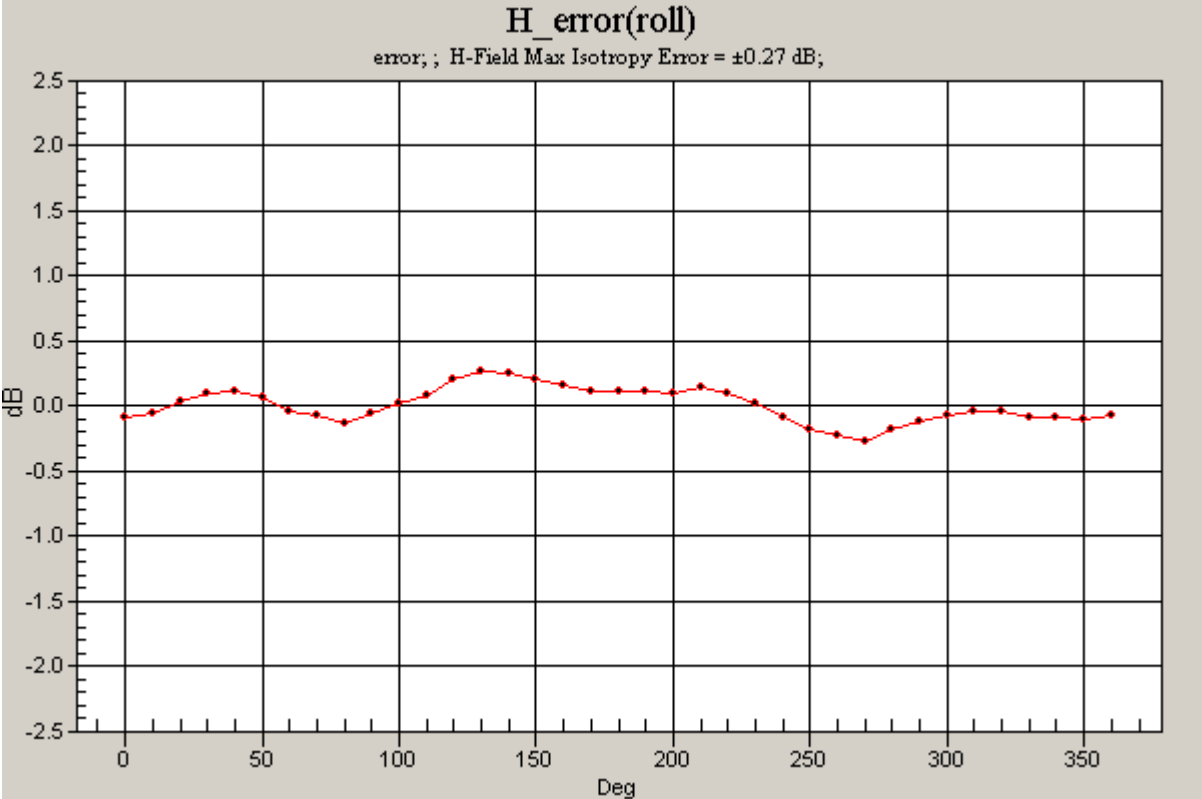
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GSM1900 HAC_H3DV6_Device

DUT: Intermecc; Type: CN50; Serial: 328V0800138

Communication System: GSM1900; Frequency: 1880 MHz;Duty Cycle: 1:8

H Scan - M-ch/Rotation (1D): 37 rotation steps; H-Field Max Isotropy Error = ± 0.27 dB;



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GSM1900 HAC_H3DV6_Device

DUT: Intermecc; Type: CN50; Serial: 328V0800138

Communication System: GSM1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6157; ; Calibrated: 2/10/2009
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn427; Calibrated: 10/20/2008
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 100x
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H-ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.135 A/m

Probe Modulation Factor = 2.75

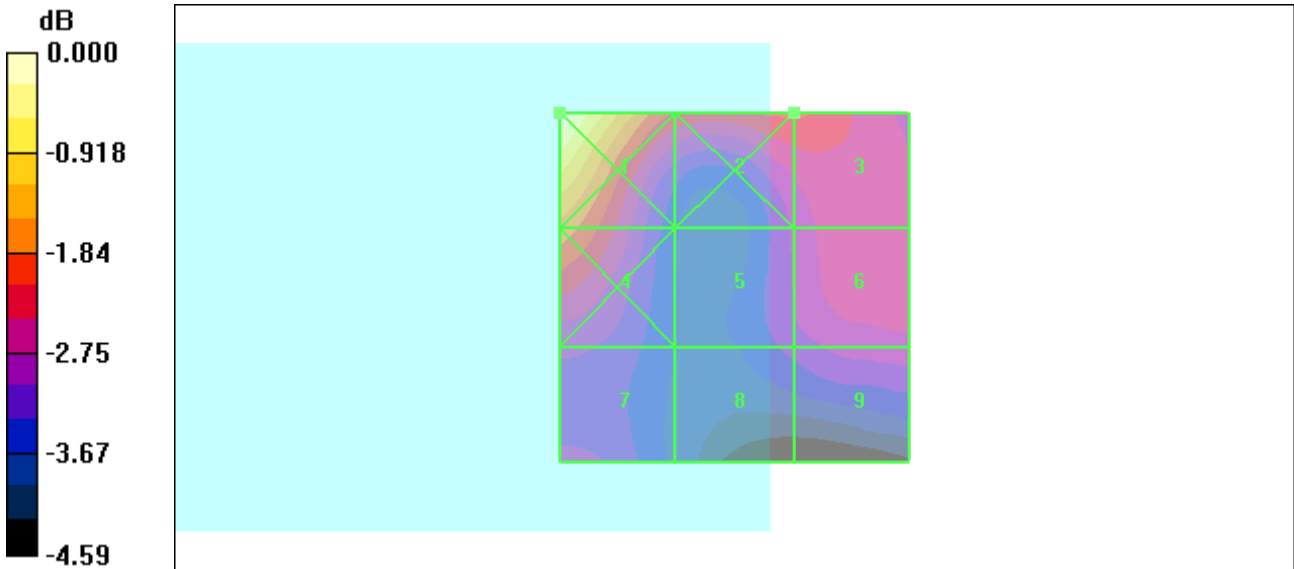
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.048 A/m; Power Drift = -0.043 dB

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

Peak H-field in A/m

Grid 1 0.171 M3	Grid 2 0.135 M4	Grid 3 0.135 M4
Grid 4 0.142 M3	Grid 5 0.121 M4	Grid 6 0.129 M4
Grid 7 0.123 M4	Grid 8 0.118 M4	Grid 9 0.123 M4



0 dB = 0.171A/m

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GSM1900 HAC_H3DV6_Device

DUT: Intermec; Type: CN50; Serial: 328V0800138

Communication System: GSM1900; Frequency: 1909.8 MHz;Duty Cycle: 1:8

H Scan - H-ch/Rotation (1D): 37 rotation steps; H-Field Max Isotropy Error = ± 0.30 dB;

