

Test Laboratory: Compliance Certification Services

UMTS850 HAC_ER_Device

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

Communication System: GSM850; Frequency: 826.4 MHz; Duty Cycle: 1:1

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 = 36.4 V/m

Probe Modulation Factor = 1.02

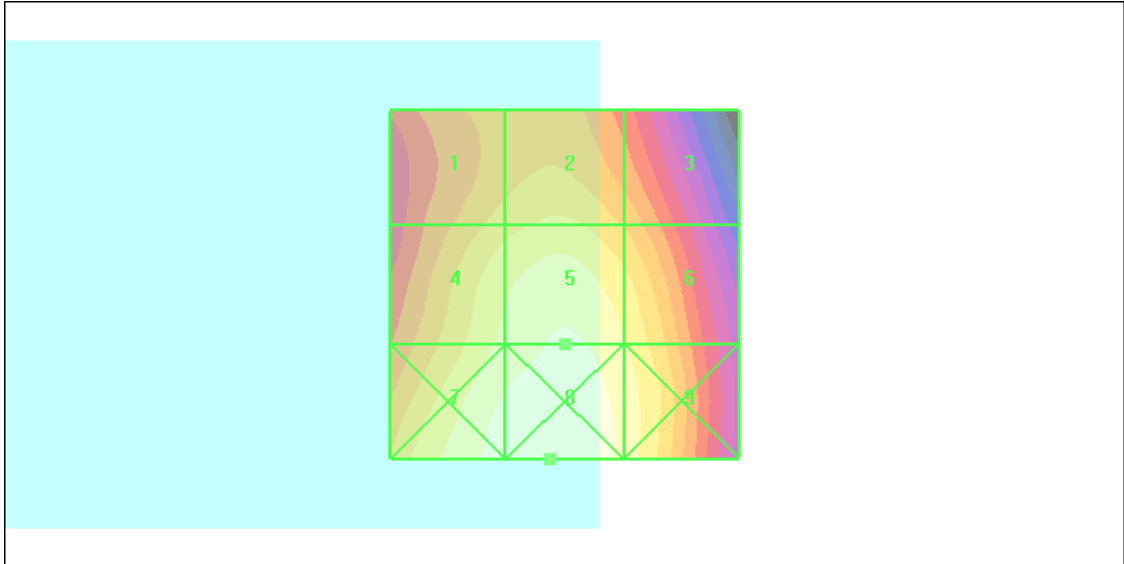
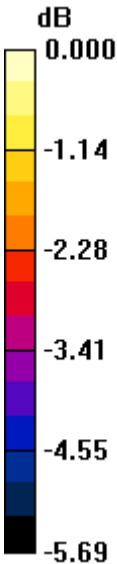
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 43.5 V/m; Power Drift = 0.199 dB

Hearing Aid Near-Field Category: **M4 (AWF 0 dB)**

Peak E-field in V/m

Grid 1 32.6 M4	Grid 2 33.5 M4	Grid 3 31.7 M4
Grid 4 35.1 M4	Grid 5 36.4 M4	Grid 6 34.8 M4
Grid 7 37.0 M4	Grid 8 37.8 M4	Grid 9 35.8 M4



0 dB = 37.8V/m

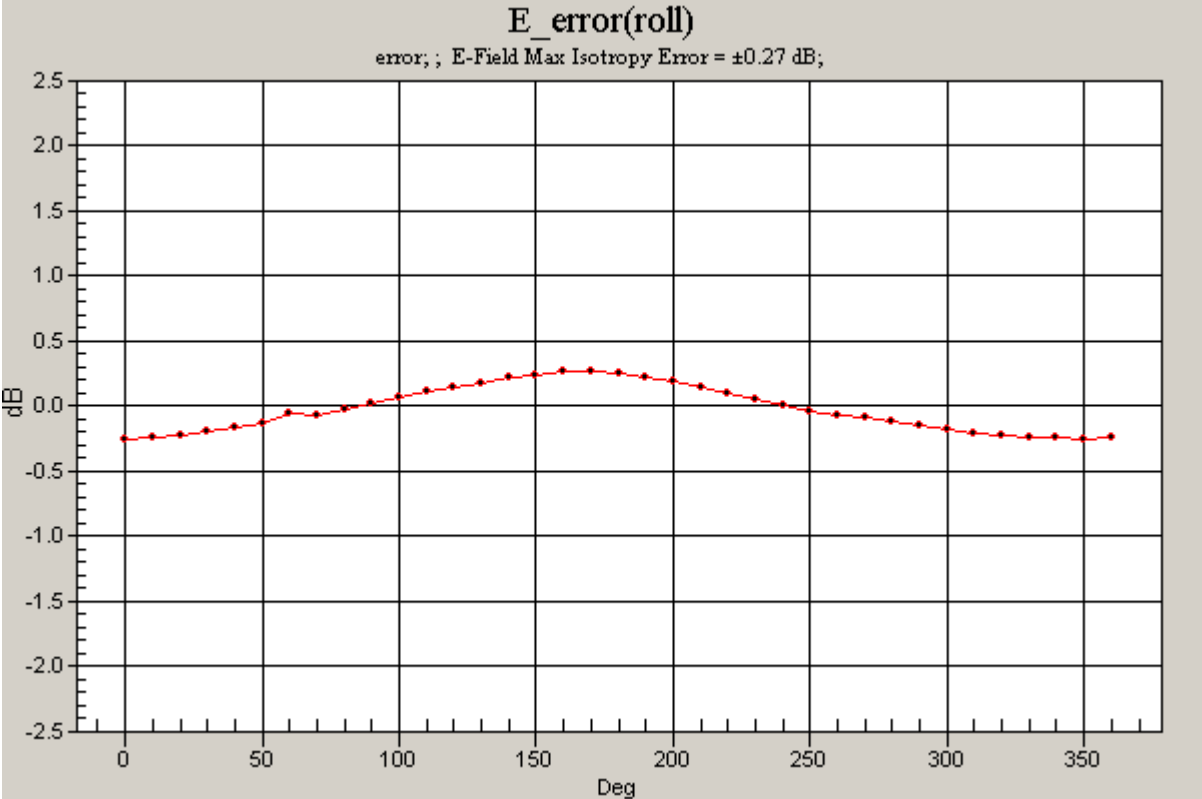
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UMTS850 HAC_ER_Device

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

Communication System: GSM850; Frequency: 826.4 MHz;Duty Cycle: 1:1

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



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UMTS850 HAC_ER_Device

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

Communication System: GSM850; Frequency: 836.4 MHz; Duty Cycle: 1:1

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 = 34.1 V/m

Probe Modulation Factor = 1.02

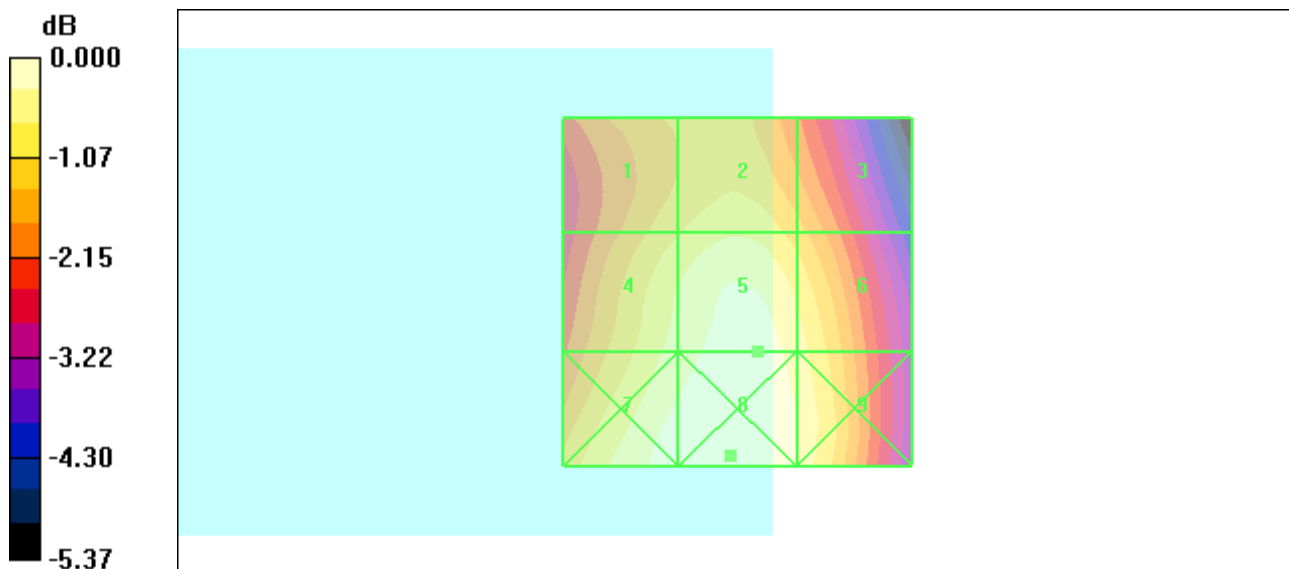
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 41.7 V/m; Power Drift = -0.014 dB

Hearing Aid Near-Field Category: **M4 (AWF 0 dB)**

Peak E-field in V/m

Grid 1 30.8 M4	Grid 2 32.0 M4	Grid 3 30.2 M4
Grid 4 32.8 M4	Grid 5 34.1 M4	Grid 6 32.8 M4
Grid 7 34.4 M4	Grid 8 34.9 M4	Grid 9 33.5 M4



0 dB = 34.9V/m

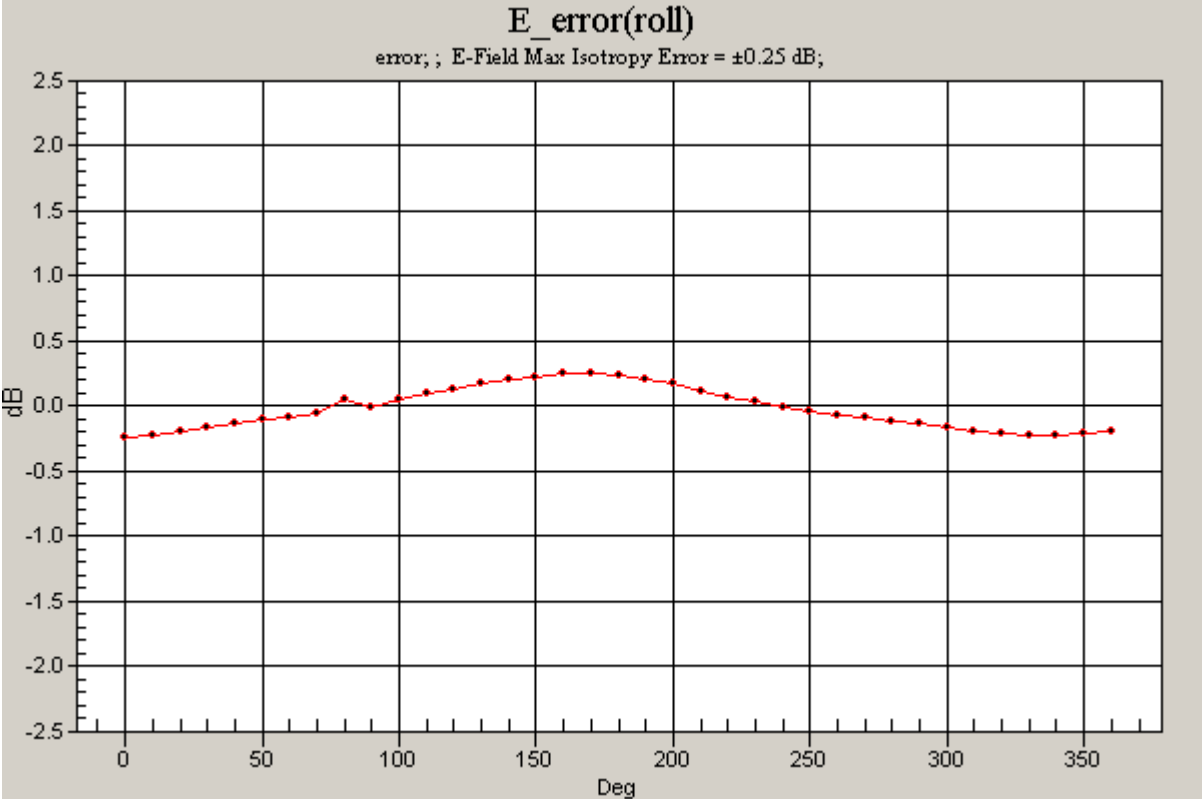
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UMTS850 HAC_ER_Device

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

Communication System: GSM850; Frequency: 836.4 MHz;Duty Cycle: 1:1

E Scan - M-ch/Rotation (1D): 37 rotation steps; E-Field Max Isotropy Error = ± 0.25 dB;



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UMTS850 HAC_ER_Device

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

Communication System: GSM850; Frequency: 846.6 MHz; Duty Cycle: 1:1

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 = 41.3 V/m

Probe Modulation Factor = 1.02

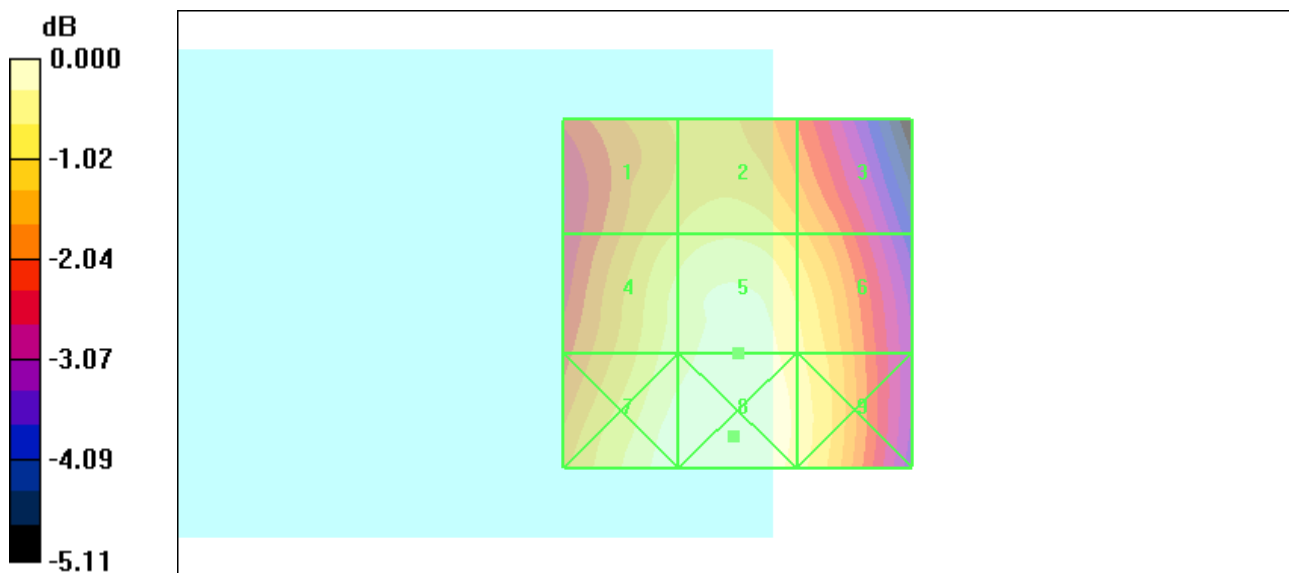
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 50.1 V/m; Power Drift = 0.142 dB

Hearing Aid Near-Field Category: **M4 (AWF 0 dB)**

Peak E-field in V/m

Grid 1 37.7 M4	Grid 2 38.8 M4	Grid 3 36.7 M4
Grid 4 39.9 M4	Grid 5 41.3 M4	Grid 6 39.5 M4
Grid 7 41.6 M4	Grid 8 42.1 M4	Grid 9 40.1 M4



0 dB = 42.1V/m

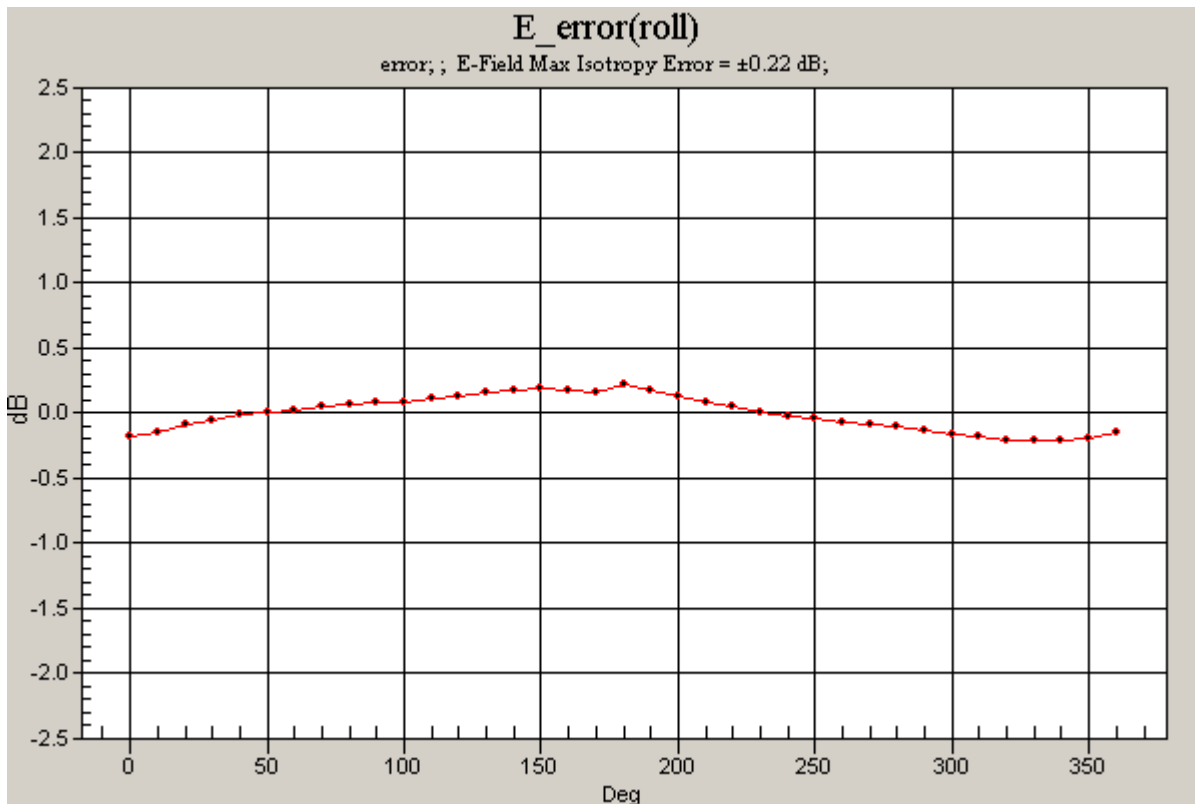
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UMTS850 HAC_ER_Device

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

Communication System: GSM850; Frequency: 846.6 MHz; Duty Cycle: 1:1

E Scan - H-ch/Rotation (1D): 37 rotation steps; E-Field Max Isotropy Error = ± 0.22 dB;



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UMTS850 HAC_H3DV6_Device

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

Communication System: GSM850; Frequency: 826.4 MHz; Duty Cycle: 1:1

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 = 0.078 A/m

Probe Modulation Factor = 0.970

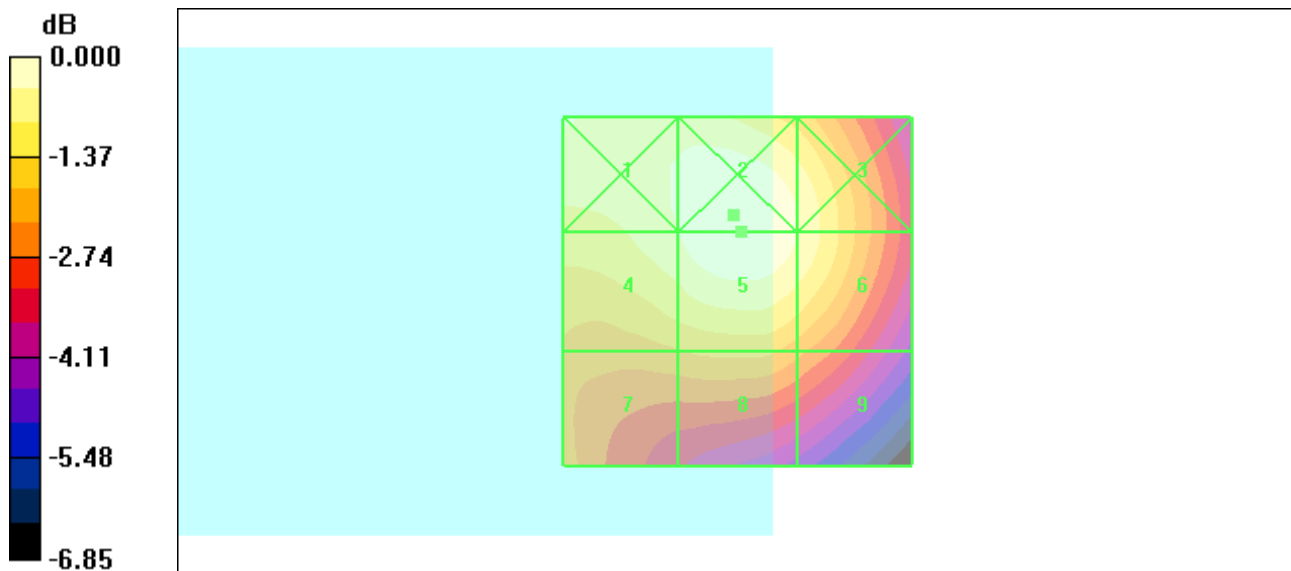
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.097 A/m; Power Drift = 0.168 dB

Hearing Aid Near-Field Category: **M4 (AWF 0 dB)**

Peak H-field in A/m

Grid 1 0.075 M4	Grid 2 0.078 M4	Grid 3 0.074 M4
Grid 4 0.074 M4	Grid 5 0.078 M4	Grid 6 0.074 M4
Grid 7 0.063 M4	Grid 8 0.064 M4	Grid 9 0.061 M4



0 dB = 0.078A/m

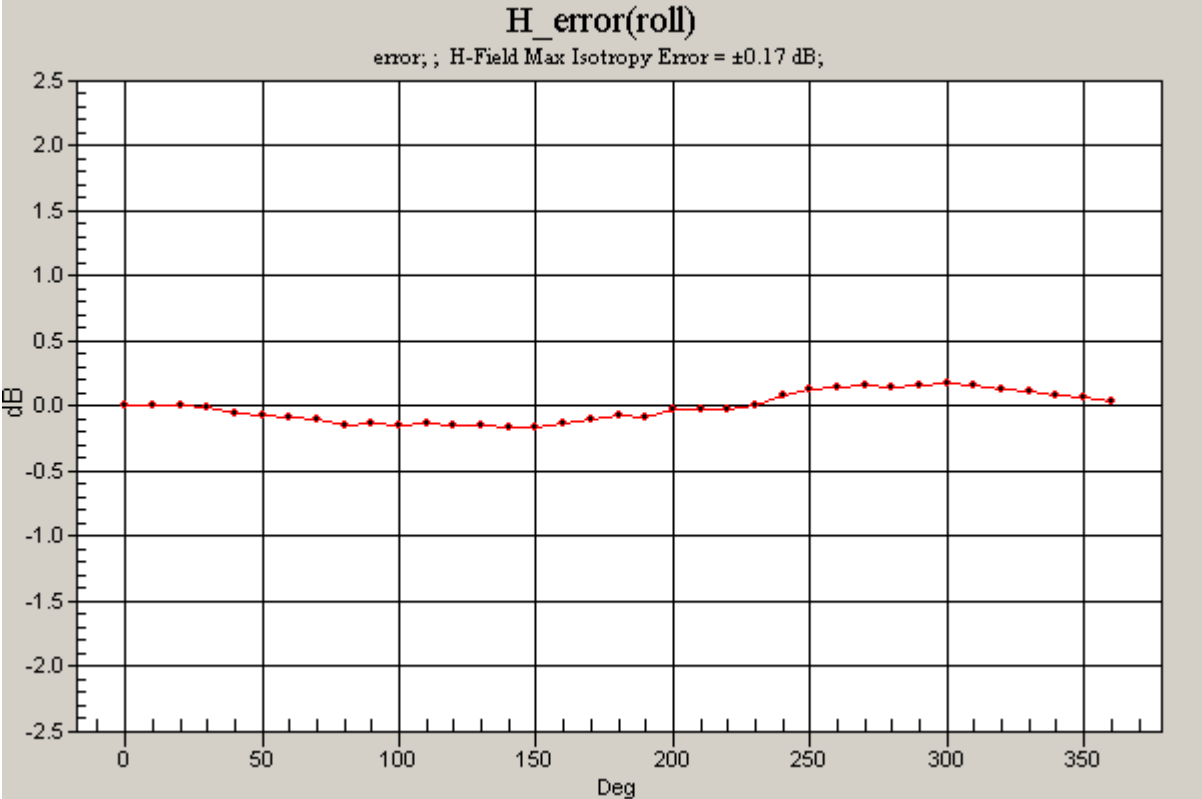
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UMTS850 HAC_H3DV6_Device

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

Communication System: GSM850; Frequency: 826.4 MHz; Duty Cycle: 1:1

H Scan - L-ch/Rotation (1D): 37 rotation steps; H-Field Max Isotropy Error = ± 0.17 dB;



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UMTS850 HAC_H3DV6_Device

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

Communication System: GSM850; Frequency: 836.4 MHz; Duty Cycle: 1:1

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 = 0.073 A/m

Probe Modulation Factor = 0.970

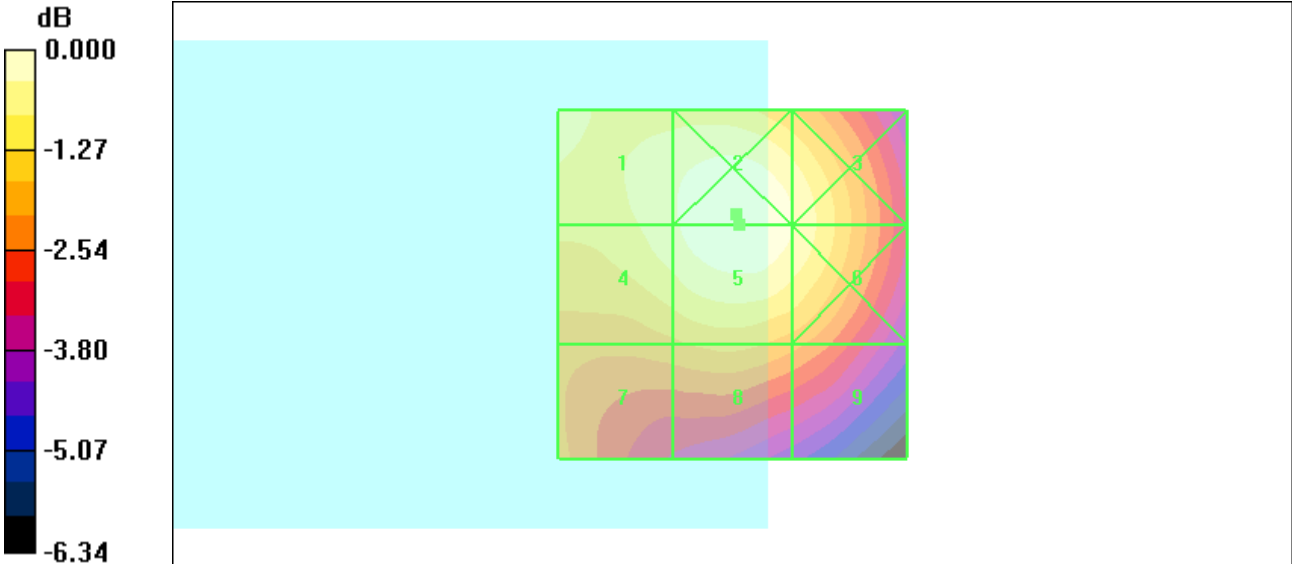
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.091 A/m; Power Drift = -0.015 dB

Hearing Aid Near-Field Category: **M4 (AWF 0 dB)**

Peak H-field in A/m

Grid 1 0.069 M4	Grid 2 0.073 M4	Grid 3 0.070 M4
Grid 4 0.069 M4	Grid 5 0.073 M4	Grid 6 0.070 M4
Grid 7 0.059 M4	Grid 8 0.061 M4	Grid 9 0.058 M4



0 dB = 0.073A/m

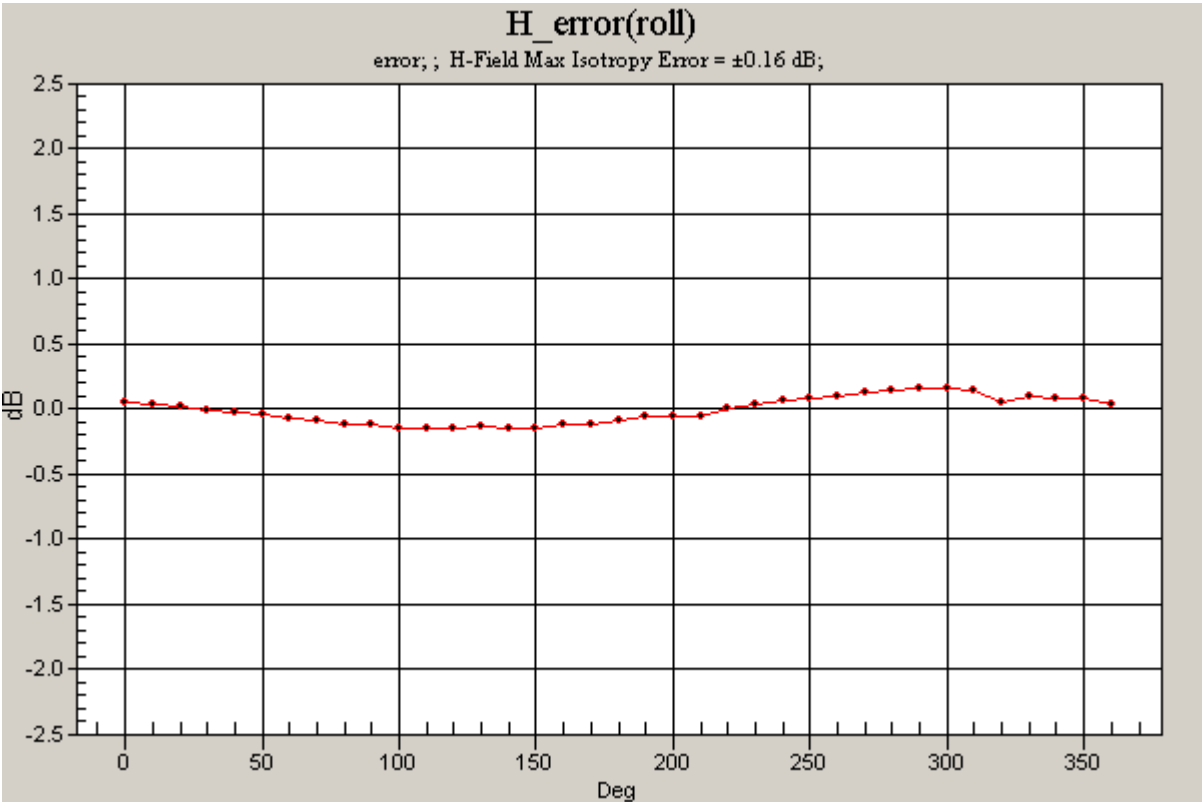
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UMTS850 HAC_H3DV6_Device

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

Communication System: GSM850; Frequency: 836.4 MHz;Duty Cycle: 1:1

H Scan - M-ch/Rotation (1D): 37 rotation steps; H-Field Max Isotropy Error = ± 0.16 dB;



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UMTS850 HAC_H3DV6_Device

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

Communication System: GSM850; Frequency: 846.6 MHz; Duty Cycle: 1:1

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 = 0.085 A/m

Probe Modulation Factor = 0.970

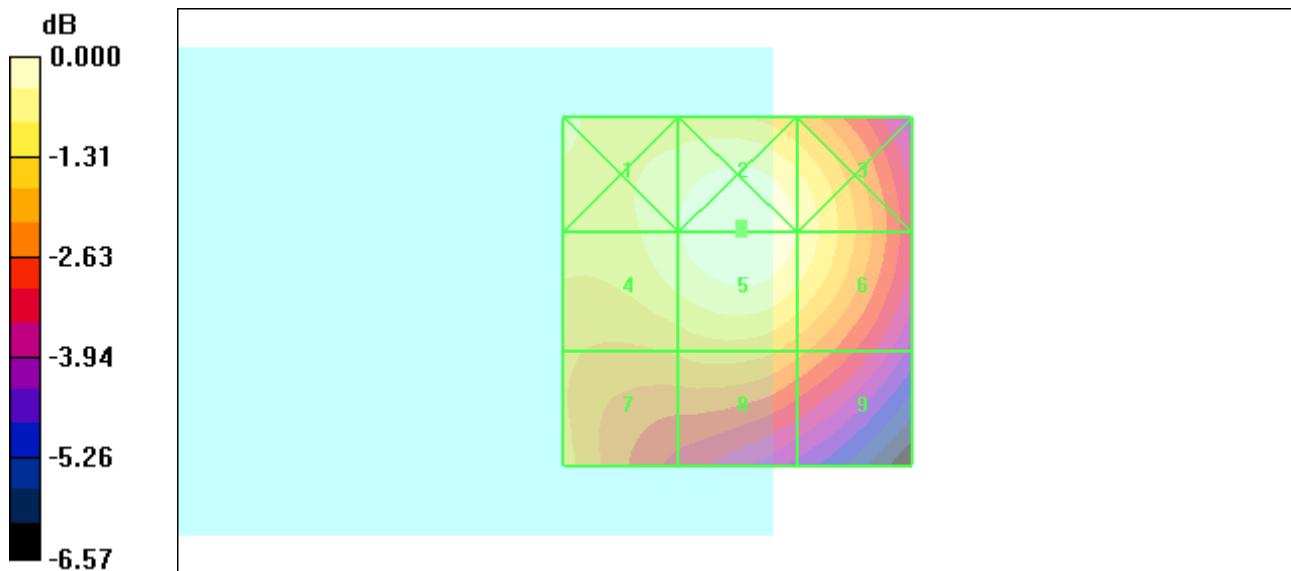
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.106 A/m; Power Drift = 0.032 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.081 M4	Grid 2 0.085 M4	Grid 3 0.081 M4
Grid 4 0.081 M4	Grid 5 0.085 M4	Grid 6 0.081 M4
Grid 7 0.072 M4	Grid 8 0.071 M4	Grid 9 0.067 M4



0 dB = 0.085A/m

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UMTS850 HAC_H3DV6_Device

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

Communication System: GSM850; Frequency: 846.6 MHz;Duty Cycle: 1:1

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

