

Test Laboratory: Compliance Certification Services

HAC_H_Device Cell band_072205

DUT: Kyocera; Type: KX9A; Serial: 20-N7092-01B

Communication System: CDMA Cellular band; Frequency: 824.7 MHz; Duty Cycle: 1:1

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

Phantom section: H Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6157; ; Calibrated: 3/11/2005
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn500; Calibrated: 2/7/2005
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1011
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 160

H Scan -L-ch (Backlight on)/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.079 A/m

Probe Modulation Factor = 0.960

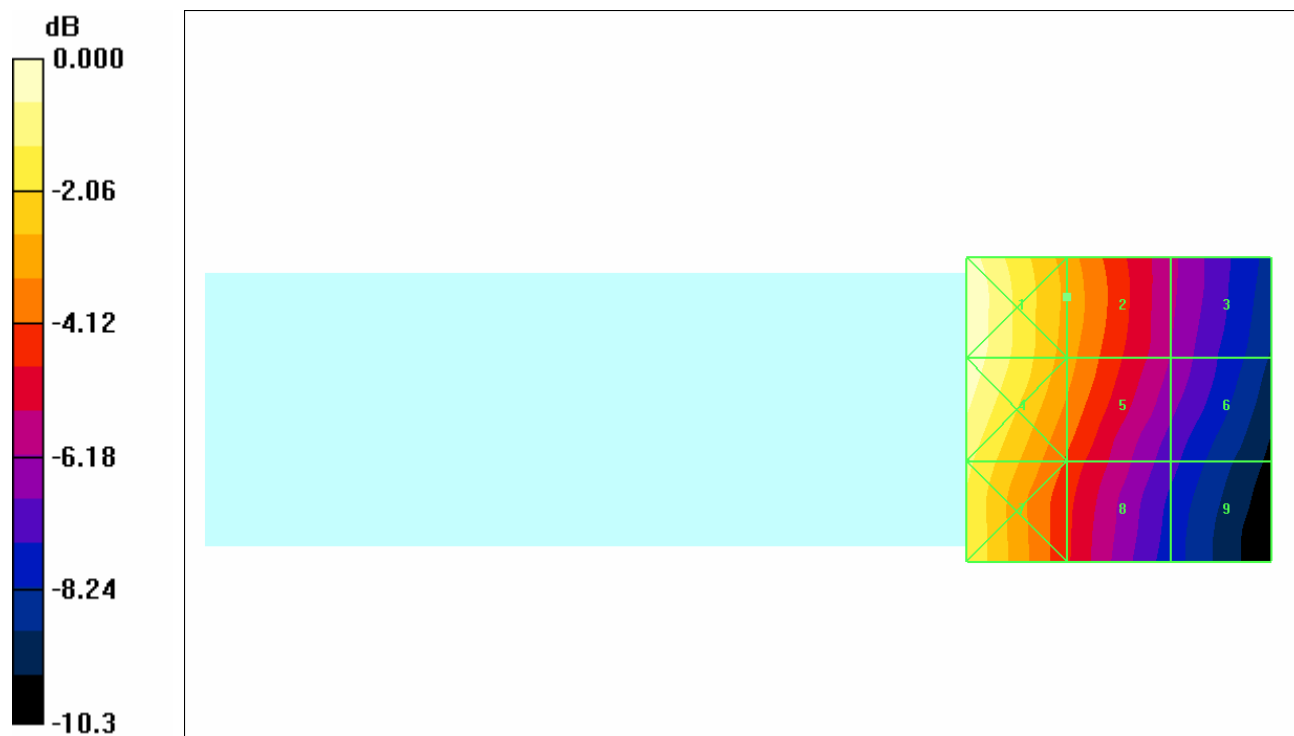
Reference Value = 0.064 A/m; Power Drift = -0.063 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.110	0.079	0.055
Grid 4	Grid 5	Grid 6
0.108	0.077	0.054
Grid 7	Grid 8	Grid 9
0.096	0.068	0.048

Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19
	-5	<47.3	<0.15



0 dB = 0.110A/m

Test Laboratory: Compliance Certification Services

HAC_H_Device Cell band_072205

DUT: Kyocera; Type: KX9A; Serial: 20-N7092-01B

Communication System: CDMA Cellular band; Frequency: 836.49 MHz; Duty Cycle: 1:1

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

Phantom section: H Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6157; ; Calibrated: 3/11/2005
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn500; Calibrated: 2/7/2005
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1011
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 160

H Scan -M-ch (Backlight on)/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.091 A/m

Probe Modulation Factor = 0.960

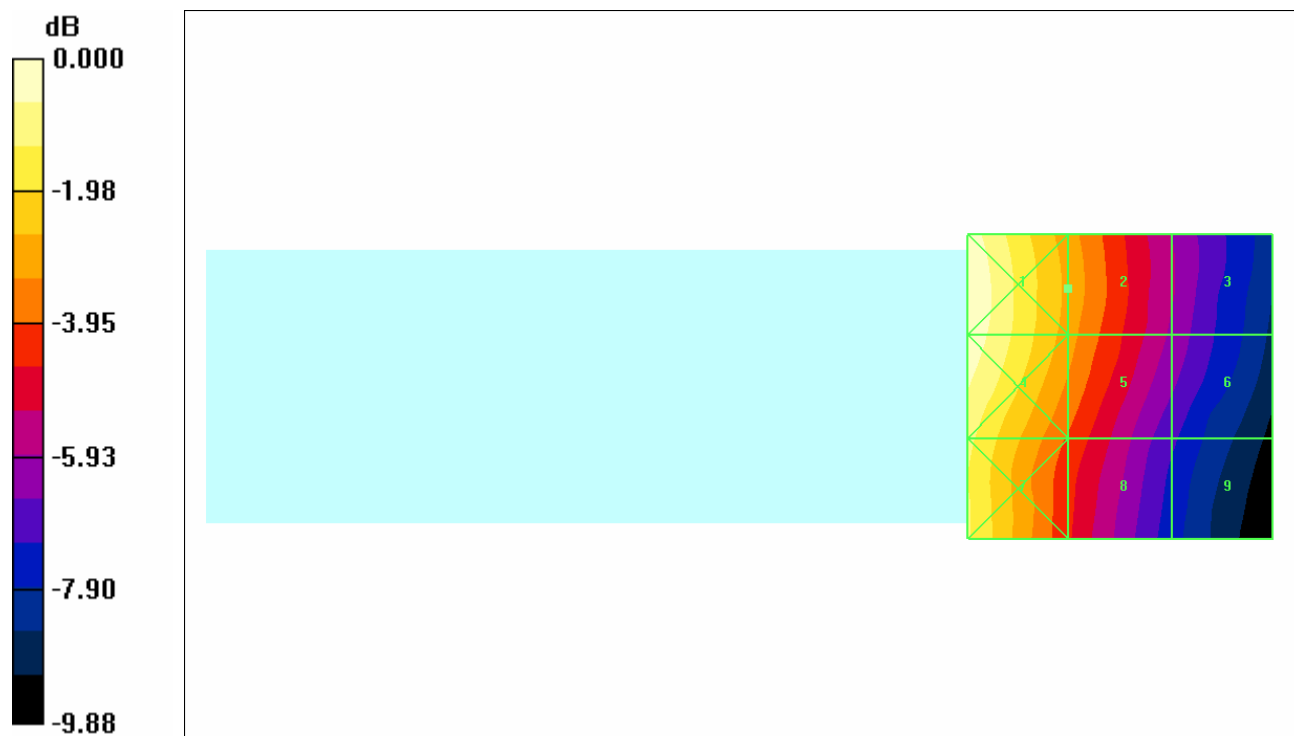
Reference Value = 0.074 A/m; Power Drift = -0.108 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.125	0.091	0.064
Grid 4	Grid 5	Grid 6
0.122	0.089	0.062
Grid 7	Grid 8	Grid 9
0.110	0.079	0.055

Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19
	-5	<47.3	<0.15



0 dB = 0.125A/m

Test Laboratory: Compliance Certification Services

HAC_H_Device Cell band_072205

DUT: Kyocera; Type: KX9A; Serial: 20-N7092-01B

Communication System: CDMA Cellular band; Frequency: 848.31 MHz; Duty Cycle: 1:1

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

Phantom section: H Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6157; ; Calibrated: 3/11/2005
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn500; Calibrated: 2/7/2005
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1011
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 160

H Scan -H-ch (Backlight on)/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.089 A/m

Probe Modulation Factor = 0.960

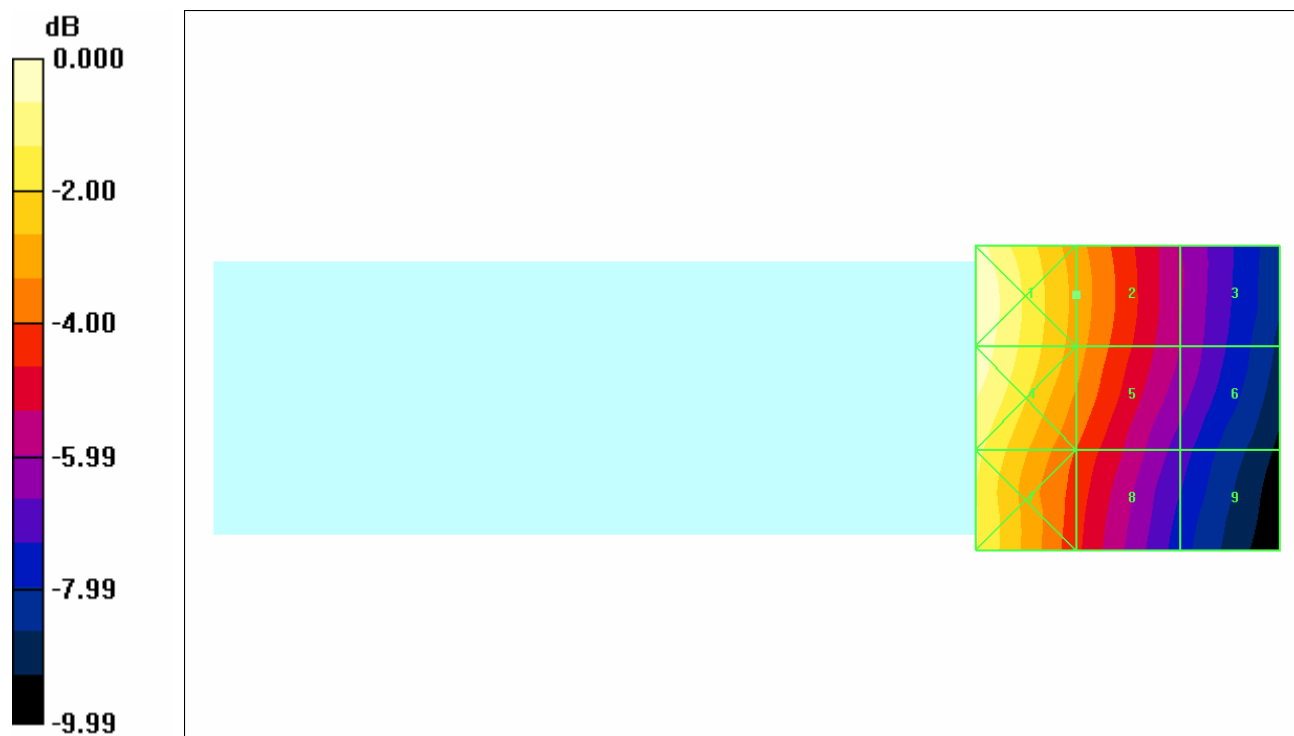
Reference Value = 0.073 A/m; Power Drift = 0.017 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.123	0.089	0.063
Grid 4	Grid 5	Grid 6
0.121	0.087	0.062
Grid 7	Grid 8	Grid 9
0.108	0.078	0.055

Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19
	-5	<47.3	<0.15



0 dB = 0.123A/m

Test Laboratory: Compliance Certification Services

HAC_H_Device Cell band_072205

DUT: Kyocera; Type: KX9A; Serial: 20-N7092-01B

Communication System: CDMA Cellular band; Frequency: 824.7 MHz; Duty Cycle: 1:1

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

Phantom section: H Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6157; ; Calibrated: 3/11/2005
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn500; Calibrated: 2/7/2005
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1011
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 160

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 = 0.960

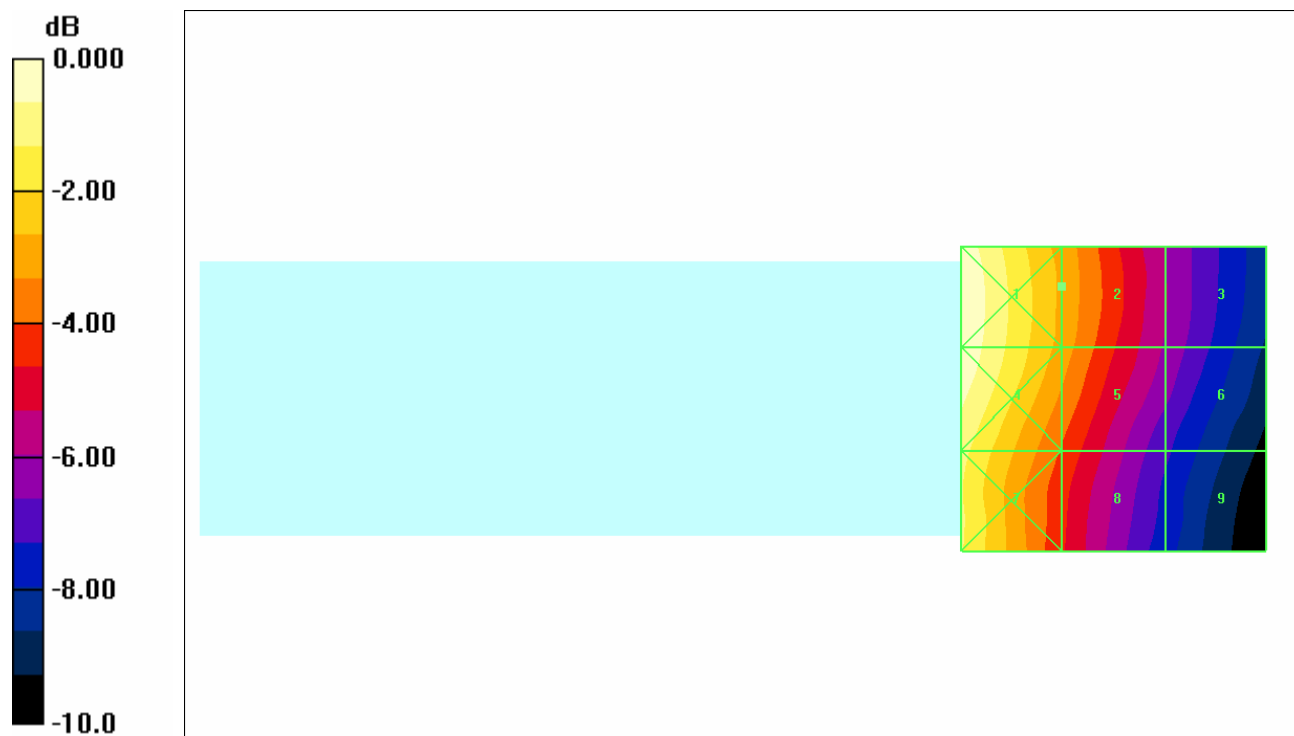
Reference Value = 0.063 A/m; Power Drift = 0.037 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.107	0.078	0.054
Grid 4	Grid 5	Grid 6
0.106	0.076	0.053
Grid 7	Grid 8	Grid 9
0.094	0.067	0.047

Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19
	-5	<47.3	<0.15



0 dB = 0.107A/m

Test Laboratory: Compliance Certification Services

HAC_H_Device Cell band_072205

DUT: Kyocera; Type: KX9A; Serial: 20-N7092-01B

Communication System: CDMA Cellular band; Frequency: 836.49 MHz; Duty Cycle: 1:1

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

Phantom section: H Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6157; ; Calibrated: 3/11/2005
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn500; Calibrated: 2/7/2005
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1011
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 160

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

Maximum value of peak Total field = 0.091 A/m

Probe Modulation Factor = 0.960

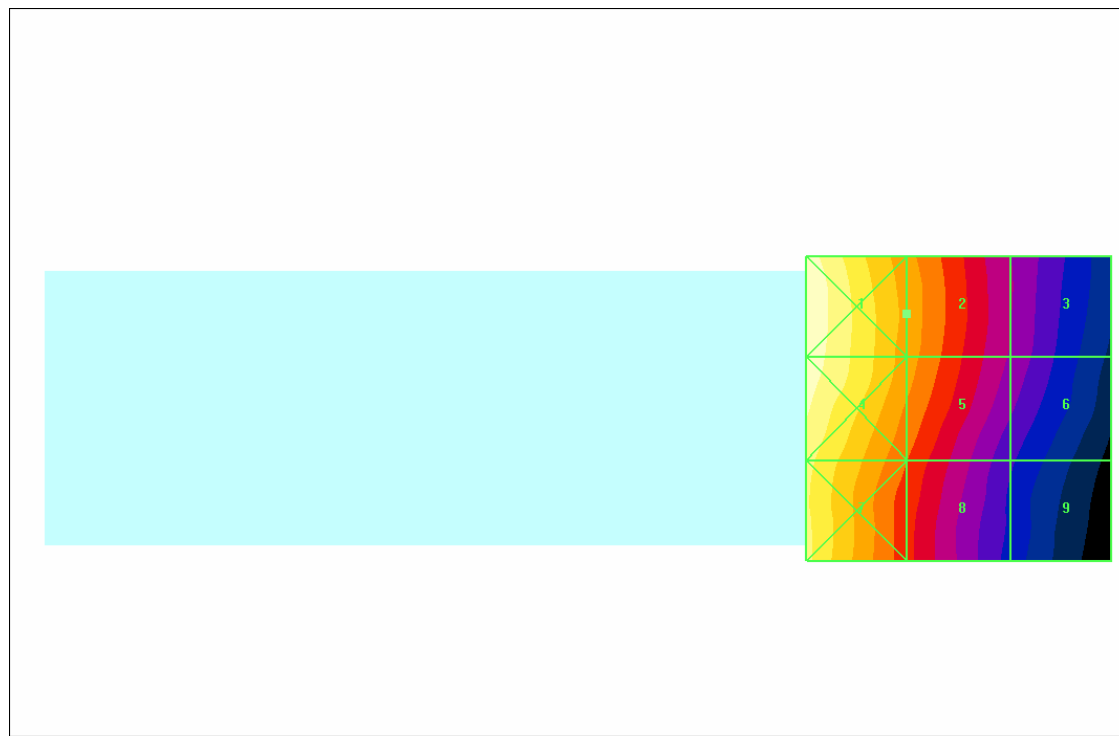
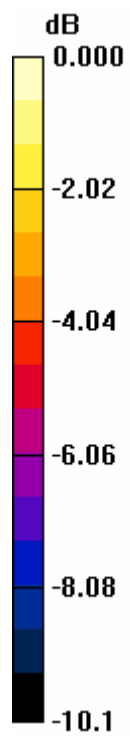
Reference Value = 0.076 A/m; Power Drift = -0.095 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.128	0.091	0.064
Grid 4	Grid 5	Grid 6
0.126	0.090	0.063
Grid 7	Grid 8	Grid 9
0.113	0.081	0.056

Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19
	-5	<47.3	<0.15



0 dB = 0.128A/m

Test Laboratory: Compliance Certification Services

HAC_H_Device Cell band_072205

DUT: Kyocera; Type: KX9A; Serial: 20-N7092-01B

Communication System: CDMA Cellular band; Frequency: 848.31 MHz; Duty Cycle: 1:1

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

Phantom section: H Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6157; ; Calibrated: 3/11/2005
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn500; Calibrated: 2/7/2005
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1011
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 160

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

Maximum value of peak Total field = 0.084 A/m

Probe Modulation Factor = 0.960

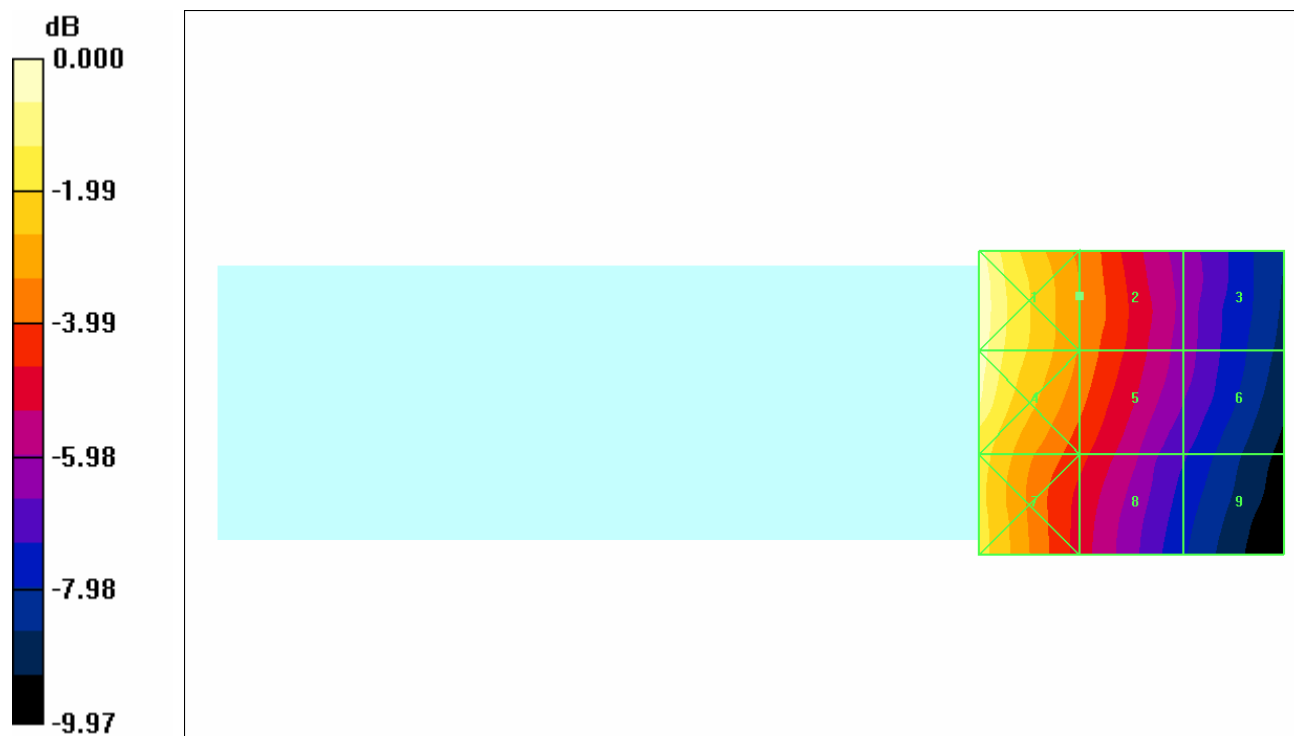
Reference Value = 0.073 A/m; Power Drift = -0.300 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.122	0.084	0.060
Grid 4	Grid 5	Grid 6
0.119	0.083	0.059
Grid 7	Grid 8	Grid 9
0.102	0.074	0.053

Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19
	-5	<47.3	<0.15



0 dB = 0.122A/m

Test Laboratory: Compliance Certification Services

HAC_H-Device_Backlight on_072205

DUT: Kyocera; Type: KX9A; Serial: 20-N7092-01B

Communication System: CDMA PCS Band; Frequency: 1851.25 MHz; Duty Cycle: 1:1

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

Phantom section: H Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6157; ; Calibrated: 3/11/2005
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn500; Calibrated: 2/7/2005
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1011
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 160

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

Maximum value of peak Total field = 0.071 A/m

Probe Modulation Factor = 0.890

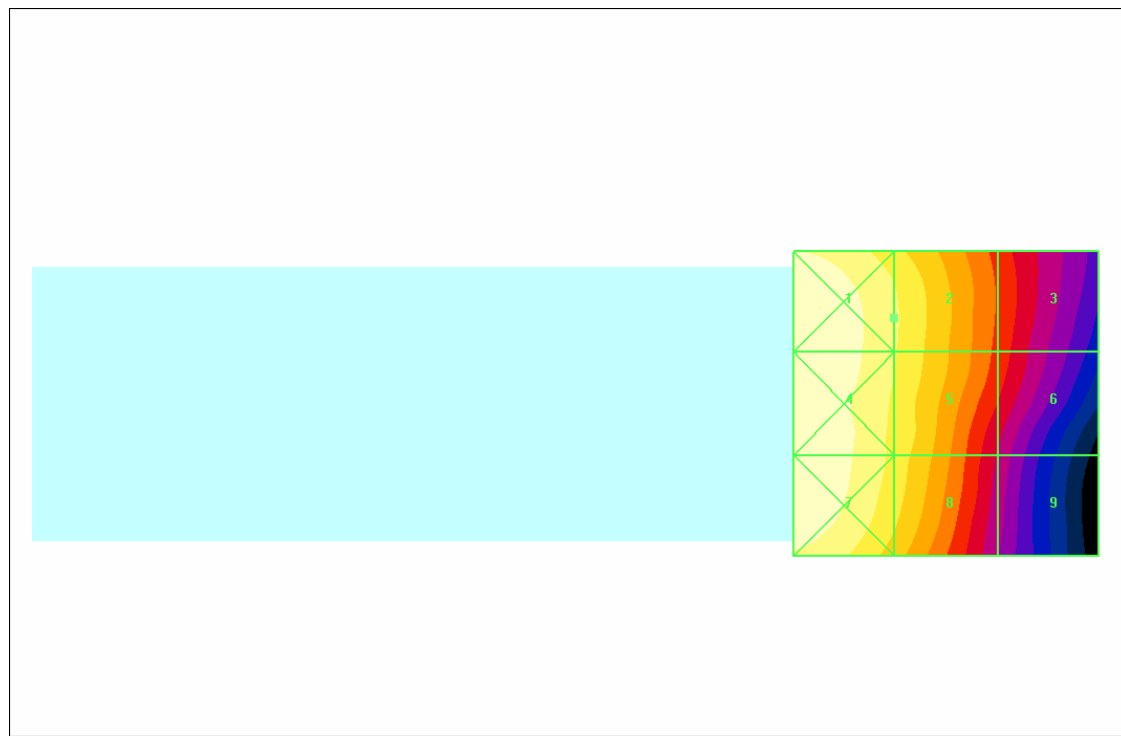
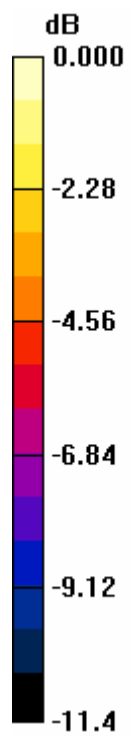
Reference Value = 0.066 A/m; Power Drift = 0.067 dB

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

Peak H-field in A/m

Grid 1 0.083	Grid 2 0.071	Grid 3 0.049
Grid 4 0.083	Grid 5 0.070	Grid 6 0.048
Grid 7 0.083	Grid 8 0.068	Grid 9 0.041

Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19
	-5	<47.3	<0.15



0 dB = 0.083A/m

Test Laboratory: Compliance Certification Services

HAC_H-Device_Backlight on_072205

DUT: Kyocera; Type: KX9A; Serial: 20-N7092-01B

Communication System: CDMA PCS Band; Frequency: 1880 MHz; Duty Cycle: 1:1

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

Phantom section: H Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6157; ; Calibrated: 3/11/2005
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn500; Calibrated: 2/7/2005
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1011
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 160

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

Maximum value of peak Total field = 0.087 A/m

Probe Modulation Factor = 0.890

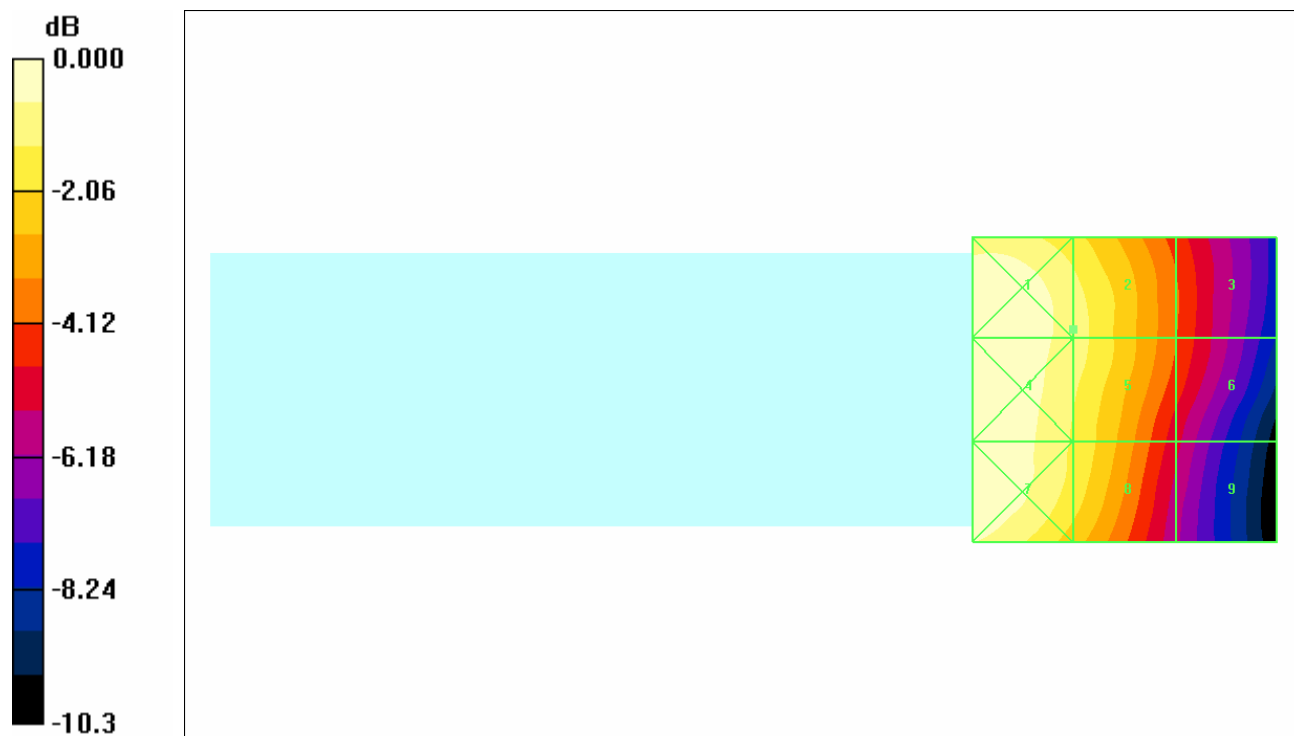
Reference Value = 0.083 A/m; Power Drift = 0.069 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.097	0.087	0.062
Grid 4	Grid 5	Grid 6
0.098	0.087	0.061
Grid 7	Grid 8	Grid 9
0.098	0.083	0.054

Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19
	-5	<47.3	<0.15



0 dB = 0.098A/m

Test Laboratory: Compliance Certification Services

HAC_H-Device_Backlight on_072205

DUT: Kyocera; Type: KX9A; Serial: 20-N7092-01B

Communication System: CDMA PCS Band; Frequency: 1908.75 MHz; Duty Cycle: 1:1

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

Phantom section: H Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6157; ; Calibrated: 3/11/2005
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn500; Calibrated: 2/7/2005
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1011
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 160

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

Maximum value of peak Total field = 0.082 A/m

Probe Modulation Factor = 0.890

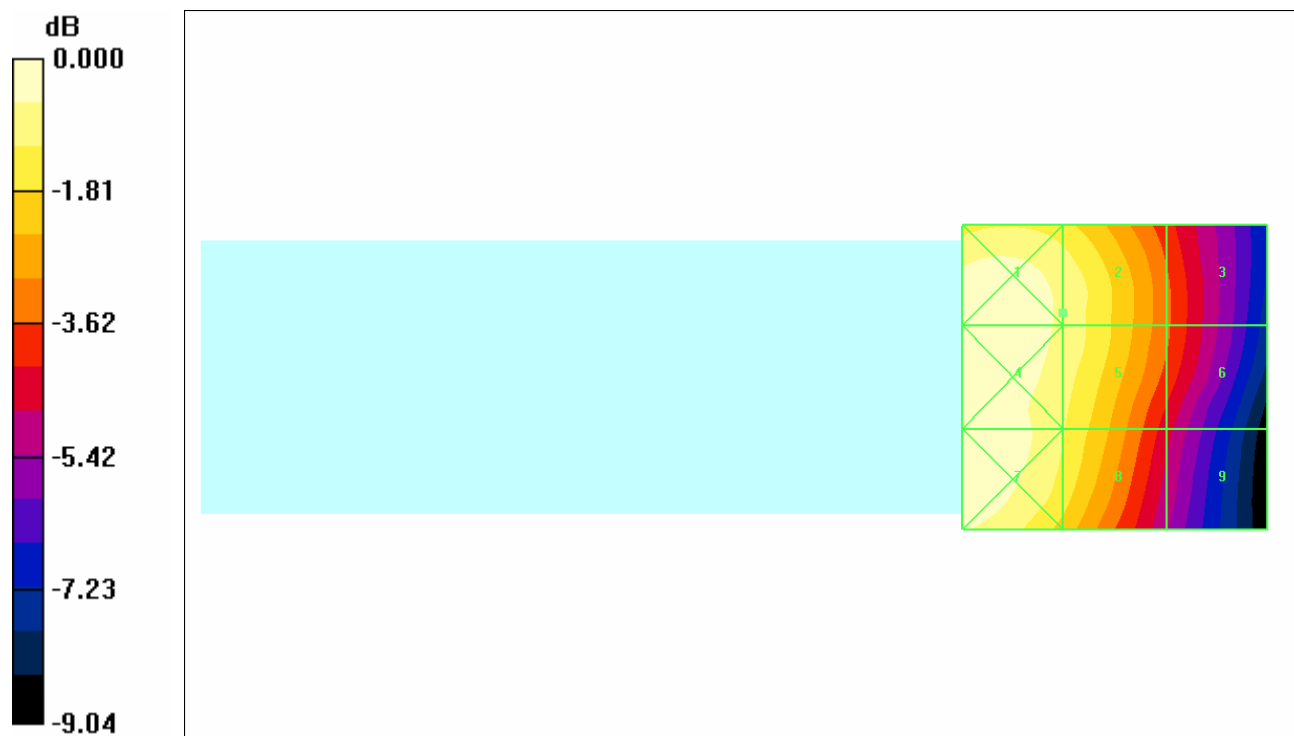
Reference Value = 0.080 A/m; Power Drift = -0.061 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.086	0.082	0.060
Grid 4	Grid 5	Grid 6
0.088	0.082	0.060
Grid 7	Grid 8	Grid 9
0.089	0.078	0.053

Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19
	-5	<47.3	<0.15



0 dB = 0.089A/m

Test Laboratory: Compliance Certification Services

HAC_H-Device_Backlight off_072205

DUT: Kyocera; Type: KX9A; Serial: 20-N7092-01B

Communication System: CDMA PCS Band; Frequency: 1851.25 MHz; Duty Cycle: 1:1

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

Phantom section: H Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6157; ; Calibrated: 3/11/2005
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn500; Calibrated: 2/7/2005
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1011
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 160

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

Maximum value of peak Total field = 0.071 A/m

Probe Modulation Factor = 0.890

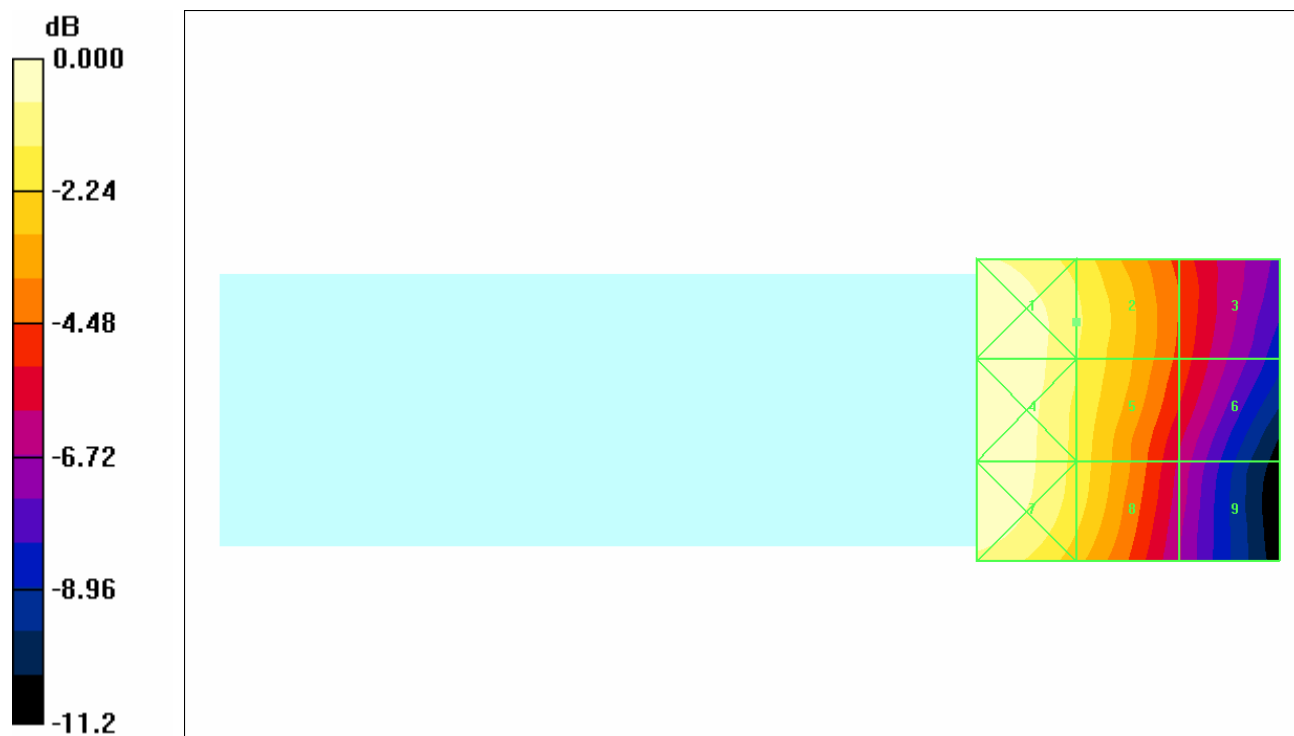
Reference Value = 0.066 A/m; Power Drift = 0.042 dB

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

Peak H-field in A/m

Grid 1 0.083	Grid 2 0.071	Grid 3 0.050
Grid 4 0.083	Grid 5 0.070	Grid 6 0.048
Grid 7 0.083	Grid 8 0.068	Grid 9 0.041

Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19
	-5	<47.3	<0.15



Test Laboratory: Compliance Certification Services

HAC_H-Device_Backlight off_072205

DUT: Kyocera; Type: KX9A; Serial: 20-N7092-01B

Communication System: CDMA PCS Band; Frequency: 1880 MHz; Duty Cycle: 1:1

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

Phantom section: H Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6157; ; Calibrated: 3/11/2005
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn500; Calibrated: 2/7/2005
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1011
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 160

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

Maximum value of peak Total field = 0.089 A/m

Probe Modulation Factor = 0.890

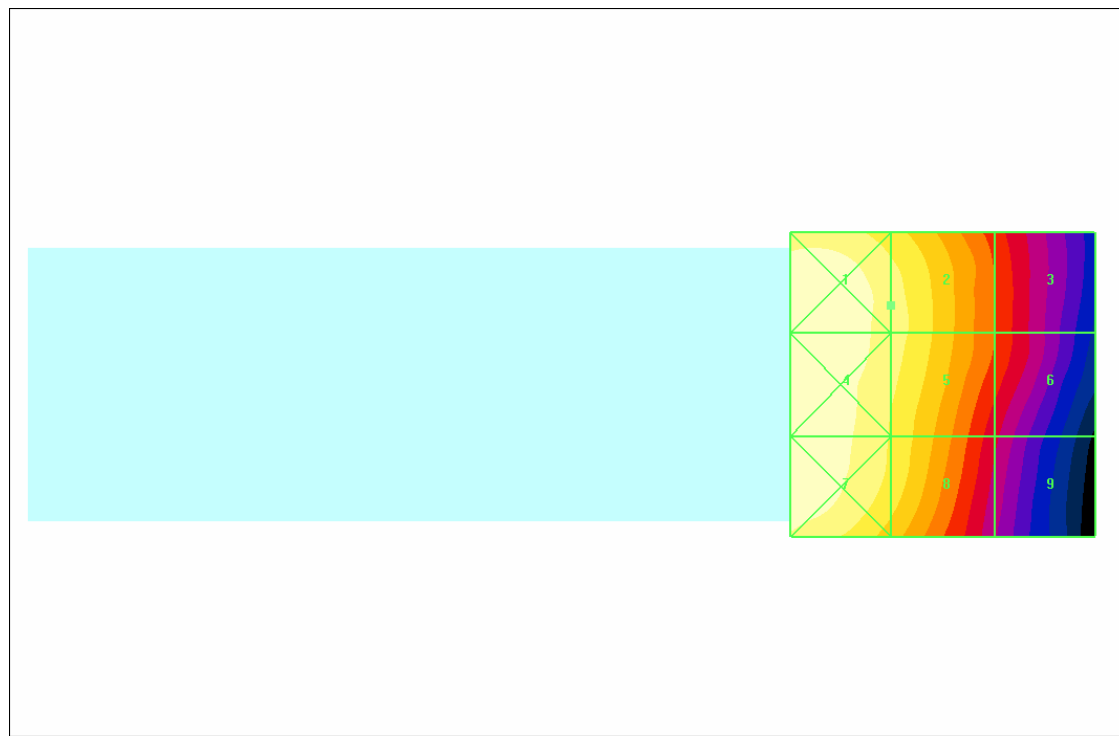
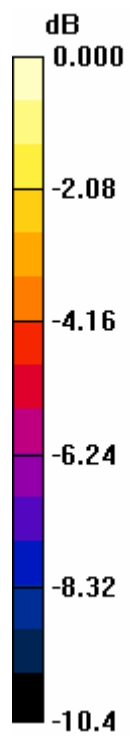
Reference Value = 0.085 A/m; Power Drift = 0.048 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.098	0.089	0.062
Grid 4	Grid 5	Grid 6
0.099	0.089	0.062
Grid 7	Grid 8	Grid 9
0.100	0.085	0.054

Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19
	-5	<47.3	<0.15



0 dB = 0.100A/m

Test Laboratory: Compliance Certification Services

HAC_H-Device_Backlight off_072205

DUT: Kyocera; Type: KX9A; Serial: 20-N7092-01B

Communication System: CDMA PCS Band; Frequency: 1908.75 MHz; Duty Cycle: 1:1

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

Phantom section: H Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6157; ; Calibrated: 3/11/2005
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn500; Calibrated: 2/7/2005
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1011
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 160

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

Maximum value of peak Total field = 0.084 A/m

Probe Modulation Factor = 0.890

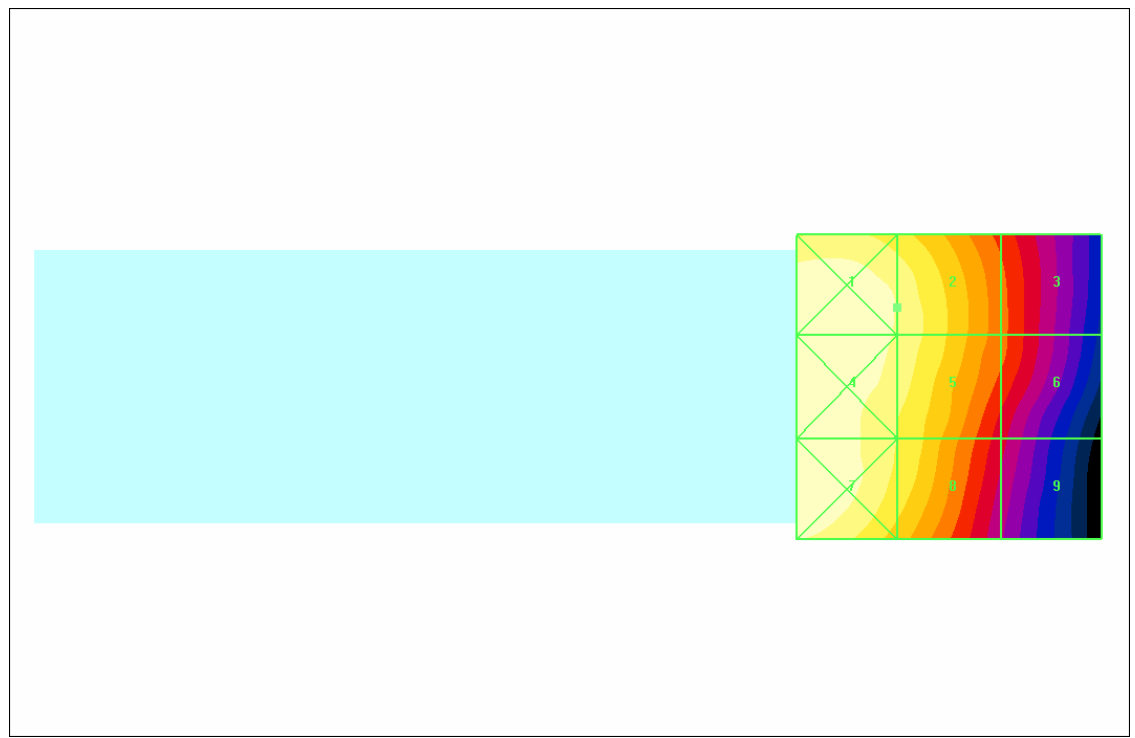
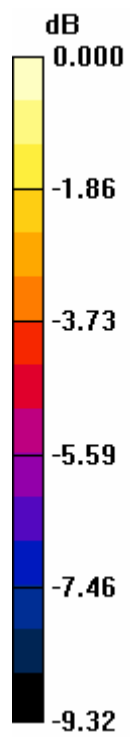
Reference Value = 0.081 A/m; Power Drift = -0.047 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.089	0.084	0.061
Grid 4	Grid 5	Grid 6
0.090	0.084	0.061
Grid 7	Grid 8	Grid 9
0.091	0.079	0.053

Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19
	-5	<47.3	<0.15



0 dB = 0.091A/m