

Date/Time: 3/19/2008 9:04:13 AM

Test Laboratory: Compliance Certification Services Inc.

HAC_E_Dipole_-835MHz

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1031

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

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

Phantom section: E Dipole Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2345; ConvF(1, 1, 1); Calibrated: 4/20/2007
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1027
- Measurement SW: DAS4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

E Scan 10mm above CD 835 MHz/Hearing Aid Compatibility Test

(41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 158.1 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 113.5 V/m; Power Drift = 0.006 dB

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

Peak E-field in V/m

| | | |
|-----------------|-----------------|-----------------|
| Grid 1 | Grid 2 | Grid 3 |
| 154.0 M4 | 159.6 M4 | 155.3 M4 |
| Grid 4 | Grid 5 | Grid 6 |
| 78.1 M4 | 83.1 M4 | 82.2 M4 |
| Grid 7 | Grid 8 | Grid 9 |
| 143.3 M4 | 158.1 M4 | 146.2 M4 |

| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|---|
| 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 |

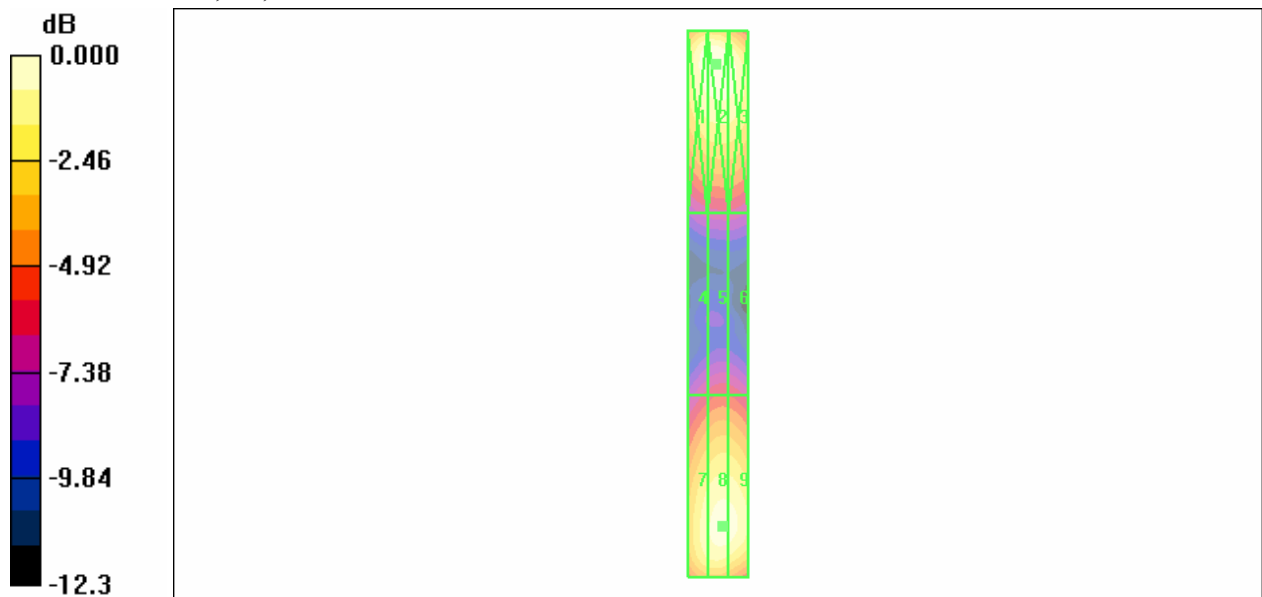
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
|----------|----------|---|--|
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 159.6 V/m

E Category: M4

Location: 0.5, -79, 365.8 mm



0 dB = 159.3V/m

Date/Time: 3/19/2008 9:25:31 AM

Test Laboratory: Compliance Certification Services Inc.

HAC_E_Dipole_-835MHz(AM 80%)

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1031

Communication System: AM 80%; Frequency: 835 MHz;Duty Cycle: 1:1

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

Phantom section: E Dipole Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2345; ConvF(1, 1, 1); Calibrated: 4/20/2007
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1027
- Measurement SW: DAS4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

E Scan 10mm above CD 835 MHz/Hearing Aid Compatibility Test

(41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 97.8 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 71.2 V/m; Power Drift = 0.010 dB

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

Peak E-field in V/m

| | | |
|----------------|----------------|----------------|
| Grid 1 | Grid 2 | Grid 3 |
| 97.6 M4 | 98.8 M4 | 95.0 M4 |
| Grid 4 | Grid 5 | Grid 6 |
| 49.4 M4 | 54.4 M4 | 53.1 M4 |
| Grid 7 | Grid 8 | Grid 9 |
| 95.6 M4 | 97.8 M4 | 95.2 M4 |

| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|---|
| 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 |

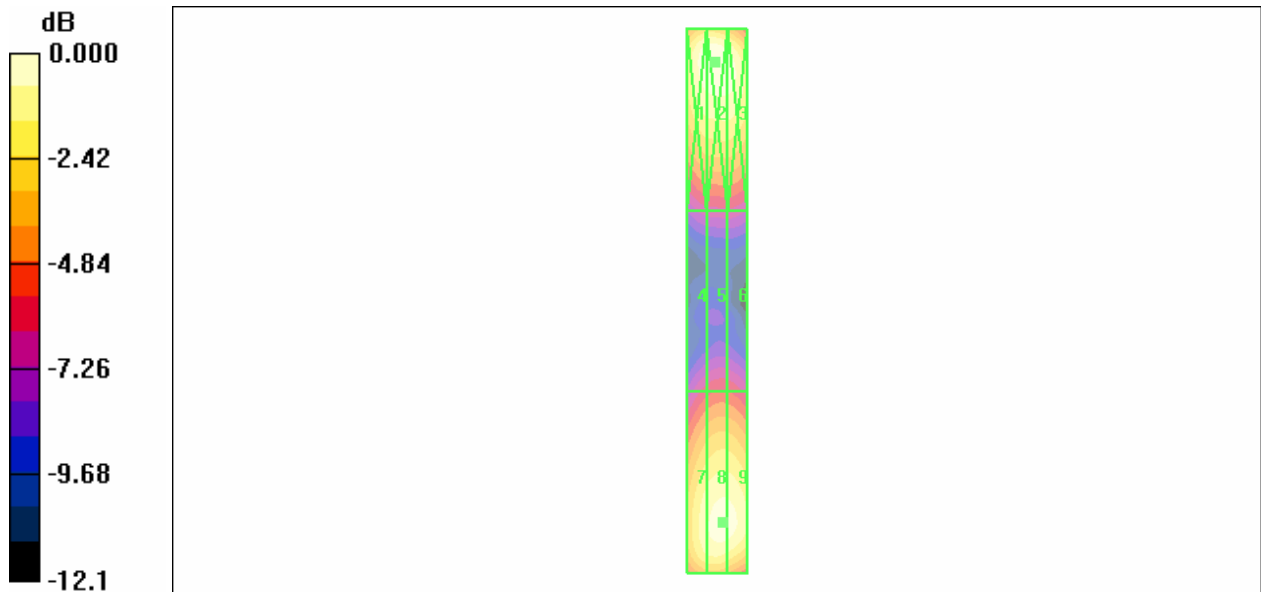
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
|----------|----------|---|--|
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 98.8 V/m

E Category: M4

Location: 0.5, -79, 365.8 mm



0 dB = 98.8V/m

Date/Time: 3/20/2008 3:13:05 AM

Test Laboratory: Compliance Certification Services Inc.

HAC_E_Dipole_-835MHz-GSM

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1031

Communication System: GSM; Frequency: 835 MHz; Duty Cycle: 1:1

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

Phantom section: E Device Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2345; ConvF(1, 1, 1); Calibrated: 4/20/2007
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1027
- Measurement SW: DAS4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

E Scan 10mm above CD 835 MHz/Hearing Aid Compatibility Test

(41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 71.8 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 20.5 V/m; Power Drift = 0.003 dB

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

Peak E-field in V/m

| | | |
|--------------------------|--------------------------|--------------------------|
| Grid 1 63.8 M4 | Grid 2 78.2 M4 | Grid 3 67.9 M4 |
| Grid 4 32.2 M4 | Grid 5 34.2 M4 | Grid 6 32.8 M4 |
| Grid 7 62.8 M4 | Grid 8 71.8 M4 | Grid 9 60.2 M4 |

| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|---|
| 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 |

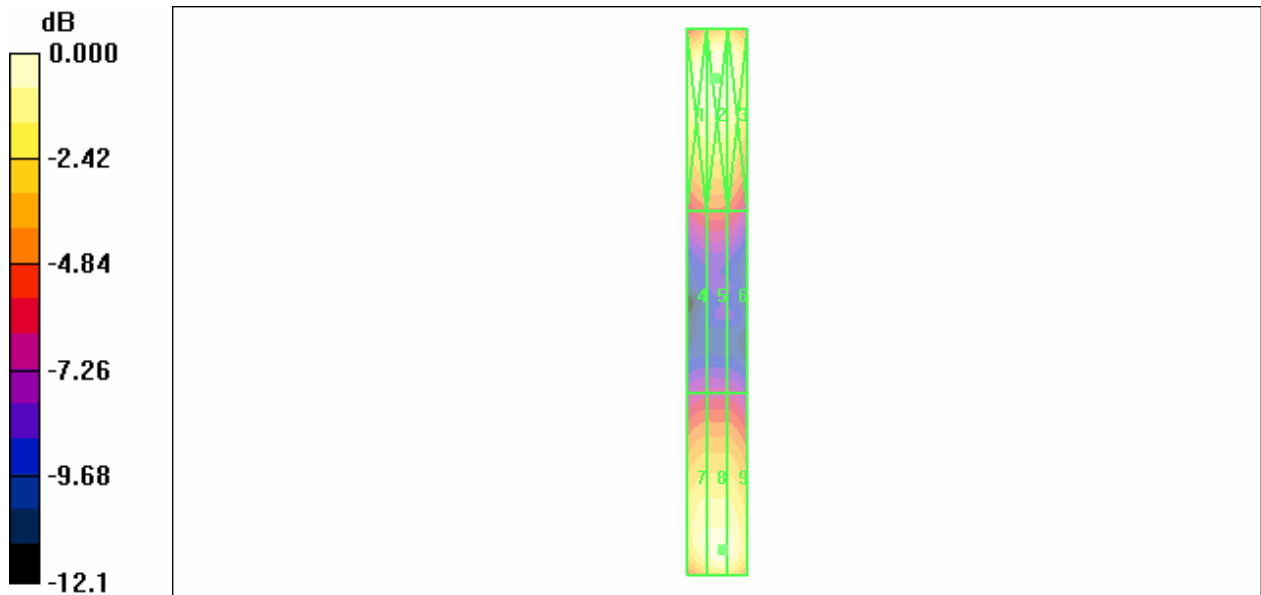
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
|----------|----------|---|--|
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 78.2 V/m

E Category: M4

Location: 0.5, -72, 365.8 mm



0 dB = 78.2V/m

Date/Time: 3/20/2008 3:37:39 AM

Test Laboratory: Compliance Certification Services Inc.

HAC_E_Dipole_-835MHz(CDMA)

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1031

Communication System: CDMA ; Frequency: 835 MHz;Duty Cycle: 1:1

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

Phantom section: E Dipole Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2345; ConvF(1, 1, 1); Calibrated: 4/20/2007
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1027
- Measurement SW: DAS4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

E Scan 10mm above CD 835 MHz/Hearing Aid Compatibility Test

(41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 147.2 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 112.3 V/m; Power Drift = 0.002 dB

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

Peak E-field in V/m

| | | |
|-----------------|-----------------|-----------------|
| Grid 1 | Grid 2 | Grid 3 |
| 150.1 M4 | 155.5 M4 | 154.8 M4 |
| Grid 4 | Grid 5 | Grid 6 |
| 80.6 M4 | 82.8 M4 | 82.1 M4 |
| Grid 7 | Grid 8 | Grid 9 |
| 145.3 M4 | 147.2 M4 | 143.6 M4 |

| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|---|
| 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 |

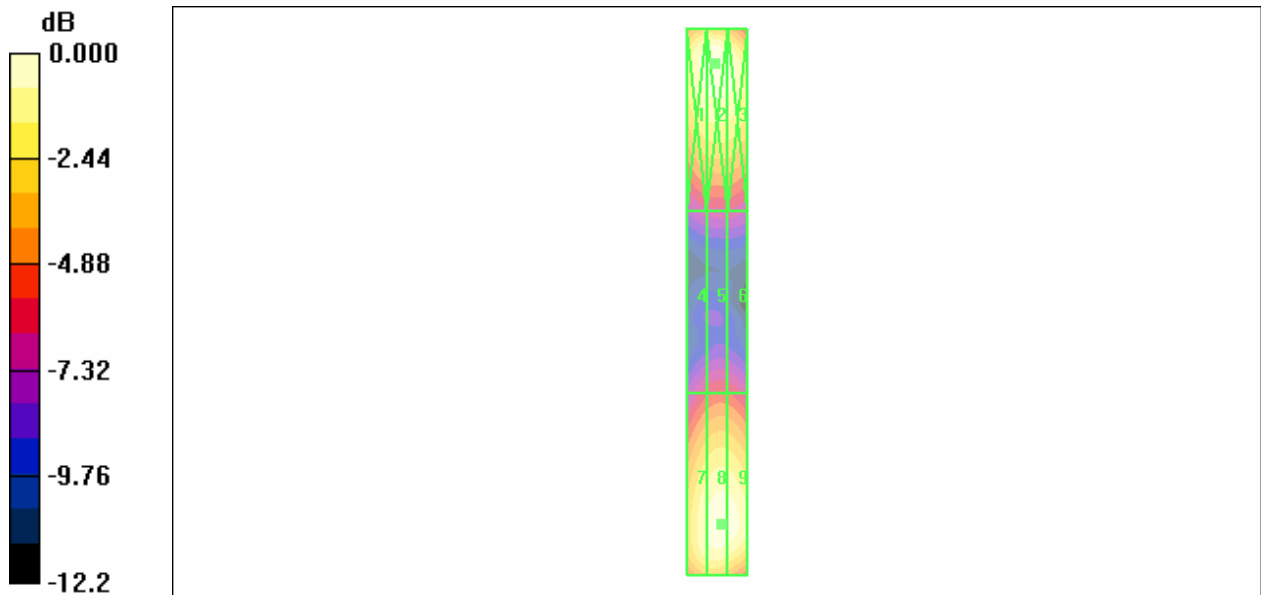
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
|----------|----------|---|--|
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 155.5 V/m

E Category: M4

Location: 0.5, -78.5, 365.8 mm



0 dB = 155.5V/m

Date/Time: 3/19/2008 10:42:09 AM

Test Laboratory: Compliance Certification Services Inc.

HAC_E_Dipole_-1880MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1024

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1

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

Phantom section: E Dipole Section

Measurement Standard: DAS4 (High Precision Assessment)

DAS4 Configuration:

- Probe: ER3DV6 - SN2345; ConvF(1, 1, 1); Calibrated: 4/20/2007
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1027
- Measurement SW: DAS4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

E Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test

(41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 135.8 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 134.8 V/m; Power Drift = 0.011 dB

Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak E-field in V/m

| | | |
|-----------------|-----------------|-----------------|
| Grid 1 | Grid 2 | Grid 3 |
| 129.4 M2 | 136.6 M2 | 127.7 M2 |
| Grid 4 | Grid 5 | Grid 6 |
| 82.2 M3 | 85.5 M3 | 84.1 M3 |
| Grid 7 | Grid 8 | Grid 9 |
| 126.4 M2 | 135.8 M2 | 126.8 M2 |

| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|---|
| 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 |

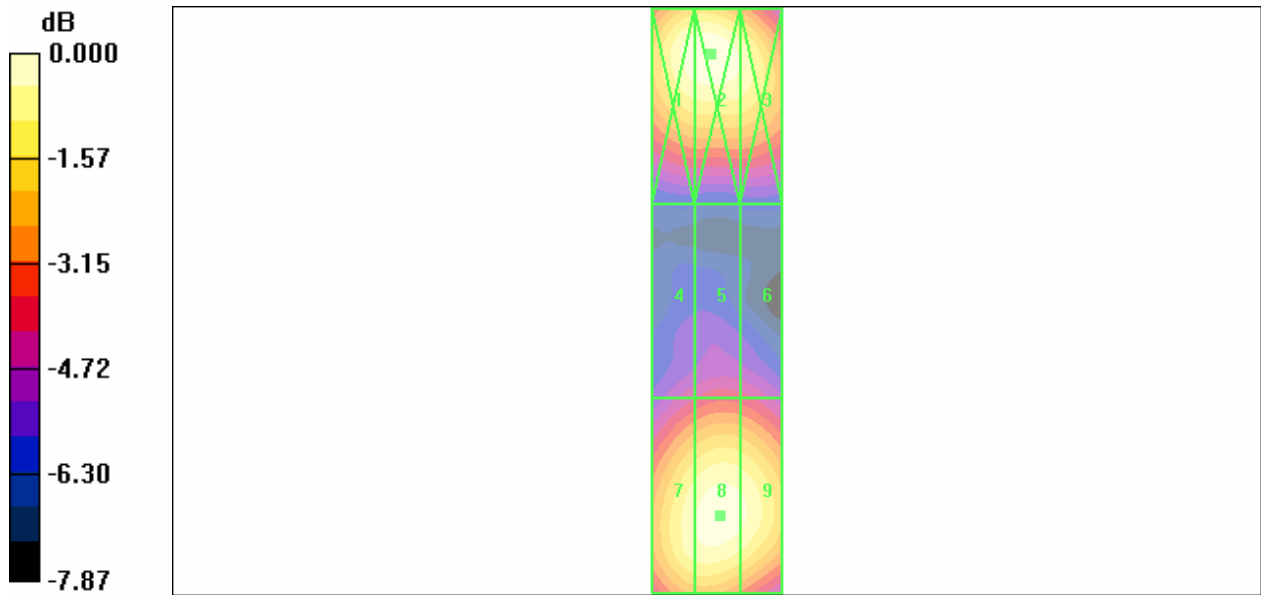
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
|----------|----------|---|--|
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 136.6 V/m

E Category: M2

Location: 1, -38, 365.8 mm



0 dB = 136.6V/m

Date/Time: 3/19/2008 11:05:09 AM

Test Laboratory: Compliance Certification Services Inc.

HAC_E_Dipole_-1880MHz(AM 80%)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1024

Communication System: AM 80%; Frequency: 1880 MHz; Duty Cycle: 1:1

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

Phantom section: E Dipole Section

Measurement Standard: DAS4 (High Precision Assessment)

DAS4 Configuration:

- Probe: ER3DV6 - SN2345; ConvF(1, 1, 1); Calibrated: 4/20/2007
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1027
- Measurement SW: DAS4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

E Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test

(41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 83.6 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 84.4 V/m; Power Drift = 0.018 dB

Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Peak E-field in V/m

| | | |
|----------------|----------------|----------------|
| Grid 1 | Grid 2 | Grid 3 |
| 82.2 M3 | 83.7 M3 | 78.8 M3 |
| Grid 4 | Grid 5 | Grid 6 |
| 54.5 M4 | 57.2 M4 | 54.6 M4 |
| Grid 7 | Grid 8 | Grid 9 |
| 78.1 M3 | 83.6 M3 | 80.4 M3 |

| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|---|
| 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 |

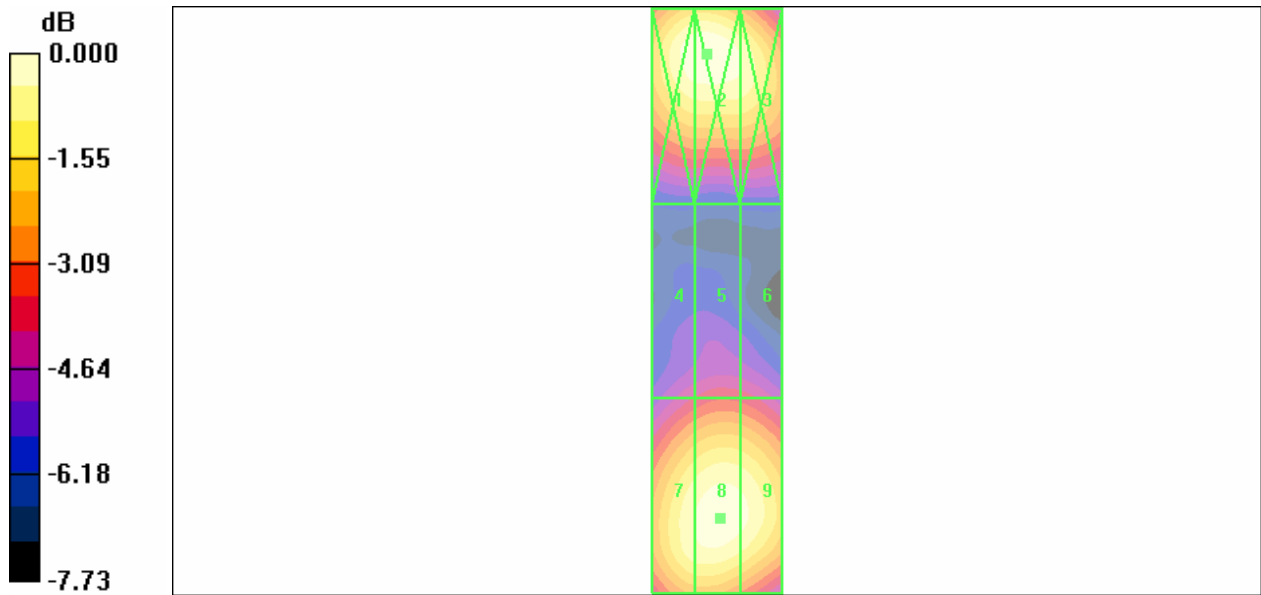
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
|----------|----------|---|--|
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 83.7 V/m

E Category: M3

Location: 1.5, -38, 365.8 mm



0 dB = 83.7V/m

Date/Time: 3/20/2008 3:58:15 AM

Test Laboratory: Compliance Certification Services Inc.

HAC_E_Dipole_-1880MHz-GSM

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1024

Communication System: GSM; Frequency: 1880 MHz; Duty Cycle: 1:1

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

Phantom section: E Dipole Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2345; ConvF(1, 1, 1); Calibrated: 4/20/2007
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1027
- Measurement SW: DAS4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

E Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test

(41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 62.2 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 50.6 V/m; Power Drift = 0.008 dB

Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Peak E-field in V/m

| | | |
|----------------|----------------|----------------|
| Grid 1 | Grid 2 | Grid 3 |
| 58.8 M3 | 66.5 M3 | 59.2 M3 |
| Grid 4 | Grid 5 | Grid 6 |
| 37.1 M4 | 33.0 M4 | 35.6 M4 |
| Grid 7 | Grid 8 | Grid 9 |
| 42.6 M4 | 62.2 M3 | 43.9 M4 |

| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|---|
| 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 |

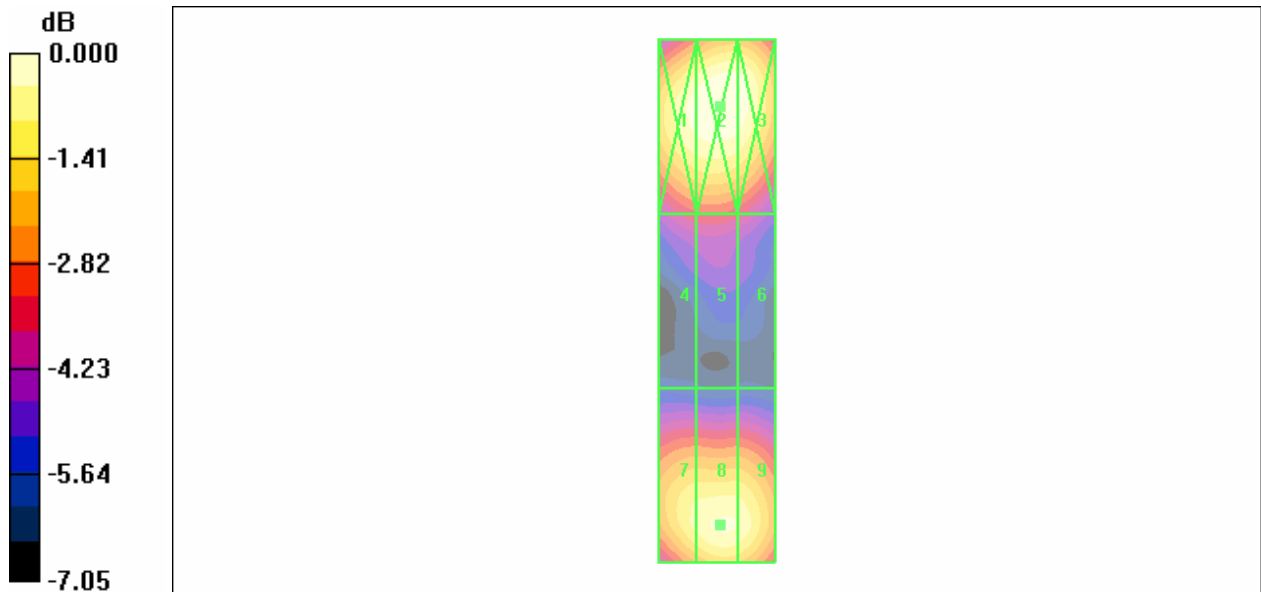
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
|----------|----------|---|--|
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 66.5 V/m

E Category: M3

Location: -0.5, -33, 365.8 mm



0 dB = 66.5V/m

Date/Time: 3/20/2008 4:27:33 AM

Test Laboratory: Compliance Certification Services Inc.

HAC_E_Dipole_-1880MHz(WCDMA)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1024

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

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

Phantom section: E Dipole Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2345; ConvF(1, 1, 1); Calibrated: 4/20/2007
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1027
- Measurement SW: DAS4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

E Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test

(41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 125.6 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 125.8 V/m; Power Drift = 0.011 dB

Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak E-field in V/m

| | | |
|-----------------|-----------------|-----------------|
| Grid 1 | Grid 2 | Grid 3 |
| 122.8 M2 | 127.7 M2 | 125.6 M2 |
| Grid 4 | Grid 5 | Grid 6 |
| 77.4 M3 | 81.6 M3 | 79.3 M3 |
| Grid 7 | Grid 8 | Grid 9 |
| 119.8 M2 | 125.6 M2 | 117.2 M2 |

| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|---|
| 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 |

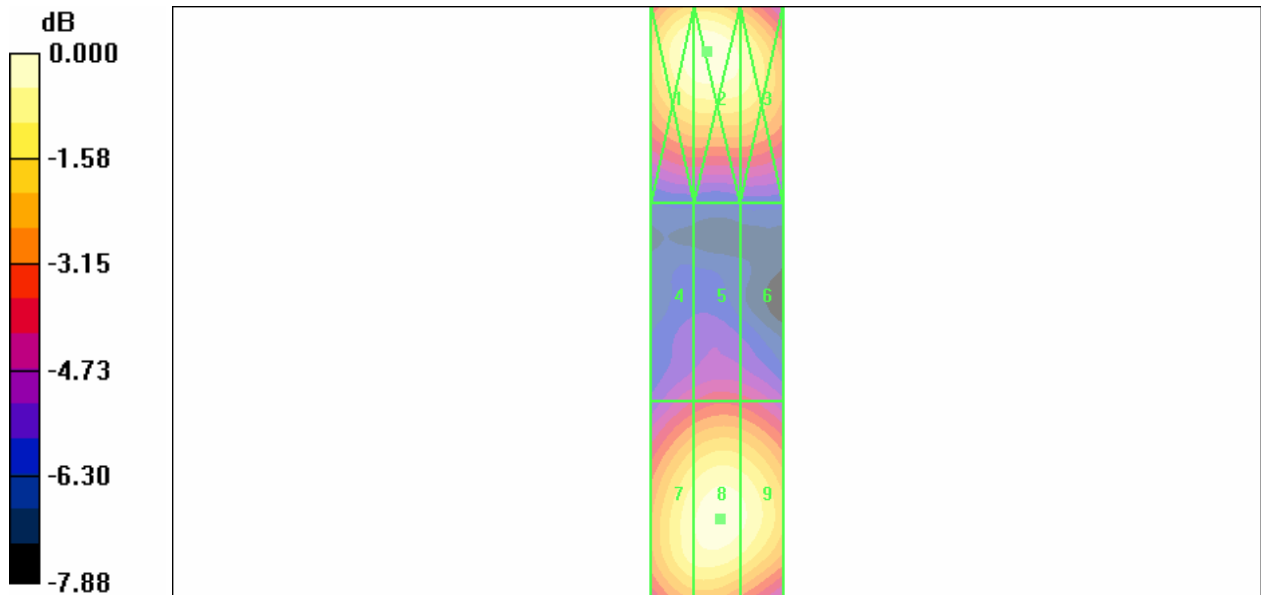
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
|----------|----------|---|--|
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 127.7 V/m

E Category: M2

Location: 1.5, -38, 365.8 mm



0 dB = 127.7V/m

Date/Time: 3/19/2008 1:21:05 PM

Test Laboratory: Compliance Certification Services Inc.

HAC_H_Dipole_835MHz-CW

DUT: HAC-Dipole 835 MHz; Type: CD835V3; Serial: 1031

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

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

Phantom section: H Dipole Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: H3DV6 - SN6163; ; Calibrated: 4/20/2007
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1027
- Measurement SW: DAS4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

H Scan 10mm above CD 835 MHz/Hearing Aid Compatibility Test

(41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.463 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.485 A/m; Power Drift = 0.015 dB

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

Peak H-field in A/m

| | | |
|---------------------------|---------------------------|---------------------------|
| Grid 1 0.390 M4 | Grid 2 0.418 M4 | Grid 3 0.398 M4 |
| Grid 4 0.422 M4 | Grid 5 0.463 M4 | Grid 6 0.448 M4 |
| Grid 7 0.372 M4 | Grid 8 0.401 M4 | Grid 9 0.397 M4 |

| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|---|
| 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 |

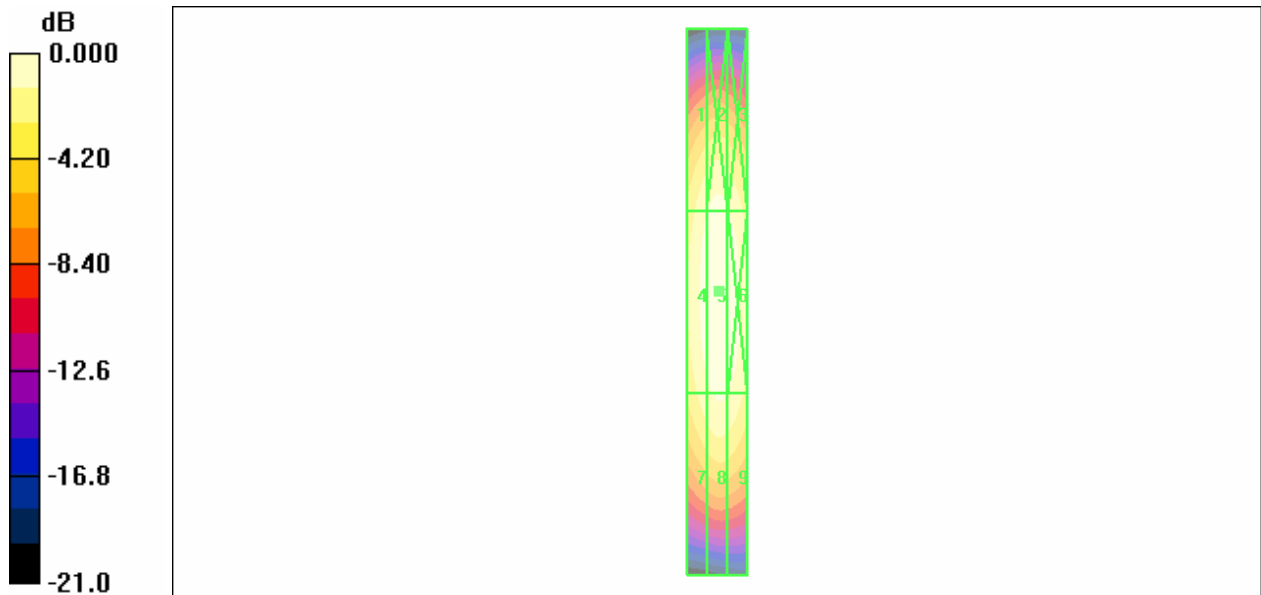
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
|----------|----------|---|--|
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 0.463 A/m

H Category: M4

Location: -0.5, -3.5, 365.6 mm



0 dB = 0.463A/m

Date/Time: 3/19/2008 1:44:20 PM

Test Laboratory: Compliance Certification Services Inc.

HAC_H_Dipole_835MHz-AM

DUT: HAC-Dipole 835 MHz; Type: CD835V3; Serial: 1031

Communication System: AM 80%; Frequency: 835 MHz; Duty Cycle: 1:1

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

Phantom section: H Dipole Section

Measurement Standard: DAS4 (High Precision Assessment)

DAS4 Configuration:

- Probe: H3DV6 - SN6163; ; Calibrated: 4/20/2007
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1027
- Measurement SW: DAS4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

H Scan 10mm above CD 835 MHz/Hearing Aid Compatibility Test

(41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.291 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.320 A/m; Power Drift = 0.012 dB

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

Peak H-field in A/m

| | | |
|---------------------------|---------------------------|---------------------------|
| Grid 1 0.232 M4 | Grid 2 0.256 M4 | Grid 3 0.248 M4 |
| Grid 4 0.268 M4 | Grid 5 0.291 M4 | Grid 6 0.279 M4 |
| Grid 7 0.229 M4 | Grid 8 0.254 M4 | Grid 9 0.245 M4 |

| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|---|
| 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 |

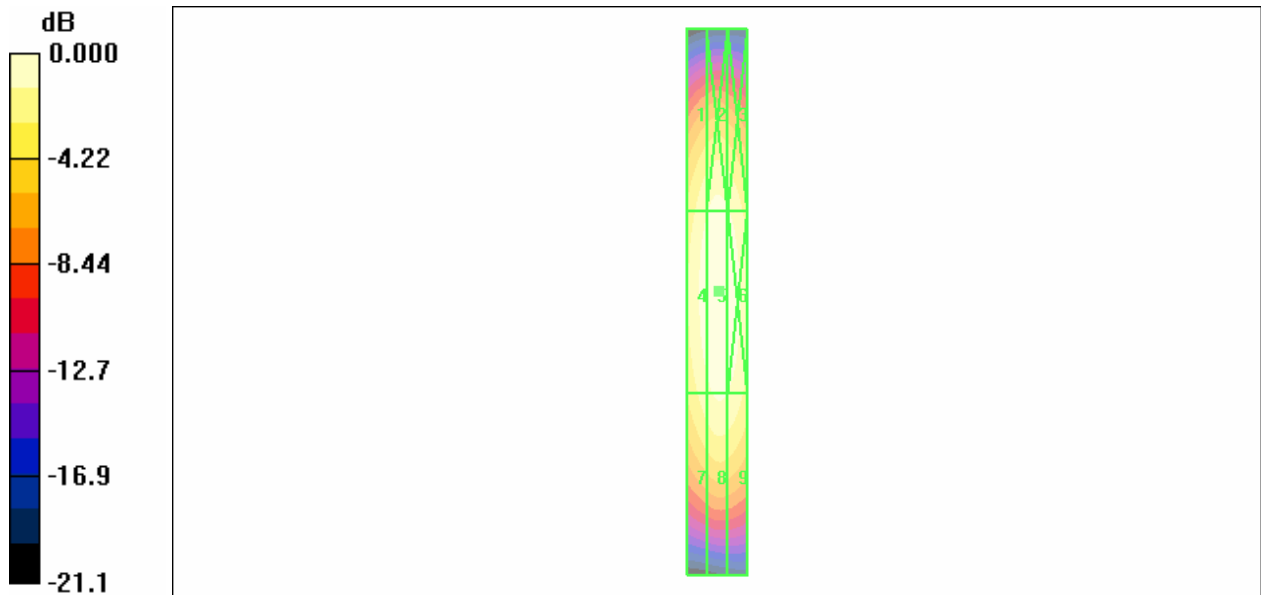
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
|----------|----------|---|--|
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 0.291 A/m

H Category: M4

Location: -0.5, -3.5, 365.6 mm



Date/Time: 3/20/2008 4:58:44 AM

Test Laboratory: Compliance Certification Services Inc.

HAC_H_Dipole_835MHz-GSM

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1031

Communication System: GSM; Frequency: 835 MHz; Duty Cycle: 1:1

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

Phantom section: H Dipole Section

Measurement Standard: DAS4 (High Precision Assessment)

DAS4 Configuration:

- Probe: H3DV6 - SN6163; ; Calibrated: 4/20/2007
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1027
- Measurement SW: DAS4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

H Scan 10mm above CD 835 MHz/Hearing Aid Compatibility Test

(41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.221 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.173 A/m; Power Drift = 0.024 dB

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

Peak H-field in A/m

| | | |
|---------------------------|---------------------------|---------------------------|
| Grid 1 0.187 M4 | Grid 2 0.196 M4 | Grid 3 0.190 M4 |
| Grid 4 0.204 M4 | Grid 5 0.221 M4 | Grid 6 0.206 M4 |
| Grid 7 0.181 M4 | Grid 8 0.195 M4 | Grid 9 0.187 M4 |

| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|---|
| 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 |

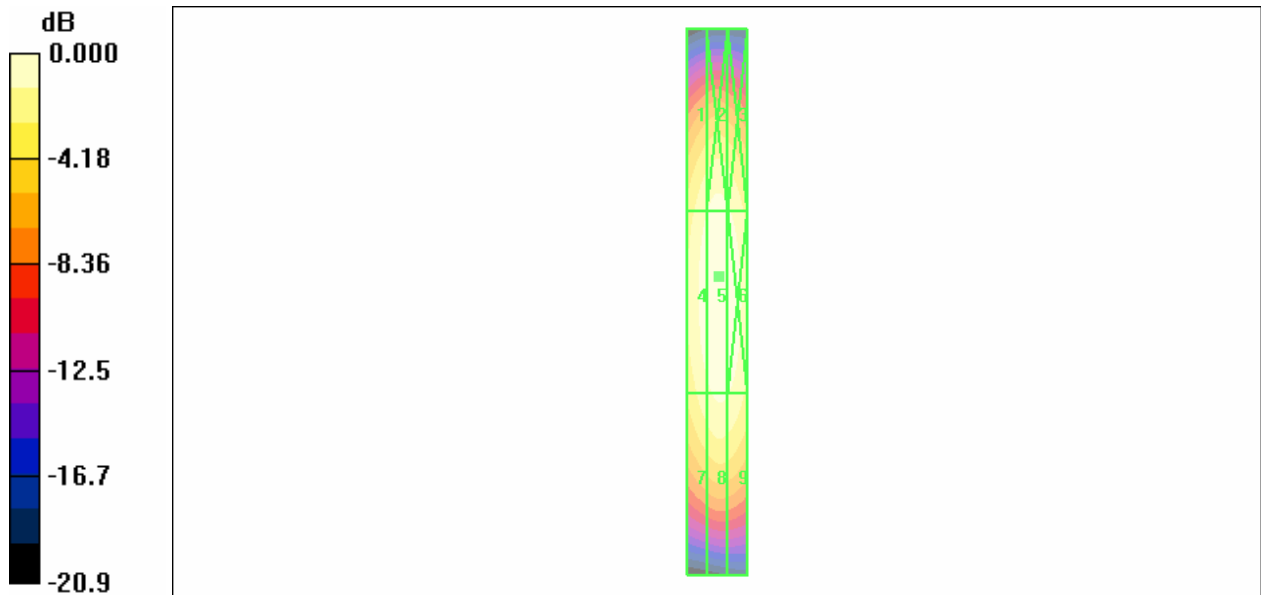
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
|----------|----------|---|--|
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 0.221 A/m

H Category: M4

Location: -0.5, -9, 365.6 mm



0 dB = 0.221A/m

Date/Time: 3/20/2008 5:26:21 AM

Test Laboratory: Compliance Certification Services Inc.

HAC_H_Dipole_835MHz-WCDMA

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1031

Communication System: CDMA; Frequency: 835 MHz; Duty Cycle: 1:1

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

Phantom section: H Dipole Section

Measurement Standard: DAS4 (High Precision Assessment)

DAS4 Configuration:

- Probe: H3DV6 - SN6163; ; Calibrated: 4/20/2007
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1027
- Measurement SW: DAS4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

H Scan 10mm above CD 835 MHz/Hearing Aid Compatibility Test

(41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.451 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.462 A/m; Power Drift = 0.010 dB

Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Peak H-field in A/m

| | | |
|---------------------------|---------------------------|---------------------------|
| Grid 1 0.368 M4 | Grid 2 0.389 M4 | Grid 3 0.367 M4 |
| Grid 4 0.415 M4 | Grid 5 0.451 M4 | Grid 6 0.417 M4 |
| Grid 7 0.356 M4 | Grid 8 0.381 M4 | Grid 9 0.364 M4 |

| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|---|
| 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 |

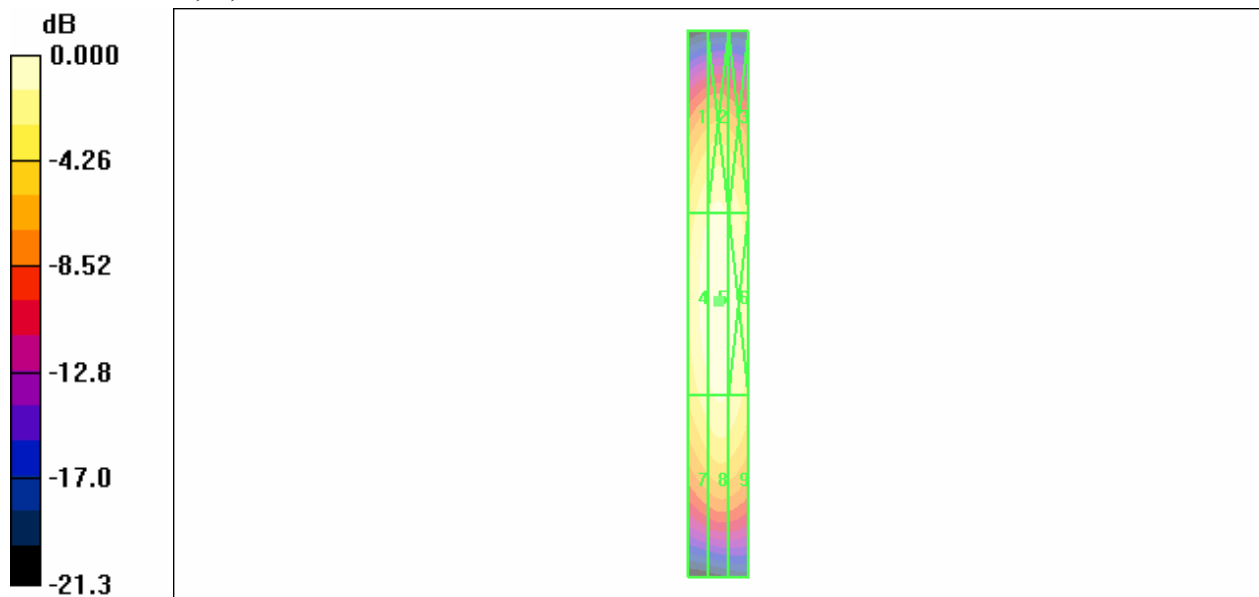
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
|----------|----------|---|--|
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 0.451 A/m

H Category: M3

Location: 0, -1, 365.6 mm



0 dB = 0.451A/m

Date/Time: 3/19/2008 2:53:06 PM

Test Laboratory: Compliance Certification Services Inc.

HAC_H_Dipole_1880MHz-CW

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1024

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1

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

Phantom section: H Dipole Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: H3DV6 - SN6163; ; Calibrated: 4/20/2007
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1027
- Measurement SW: DASYS4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

H Scan - H3DV6 probe tip 10mm above Device Reference/Hearing Aid

Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.458 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.522 A/m; Power Drift = 0.034 dB

Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak H-field in A/m

| | | |
|---------------------------|---------------------------|---------------------------|
| Grid 1 0.403 M2 | Grid 2 0.431 M2 | Grid 3 0.416 M2 |
| Grid 4 0.435 M2 | Grid 5 0.458 M2 | Grid 6 0.447 M2 |
| Grid 7 0.400 M2 | Grid 8 0.420 M2 | Grid 9 0.408 M2 |

| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|---|
| 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 |

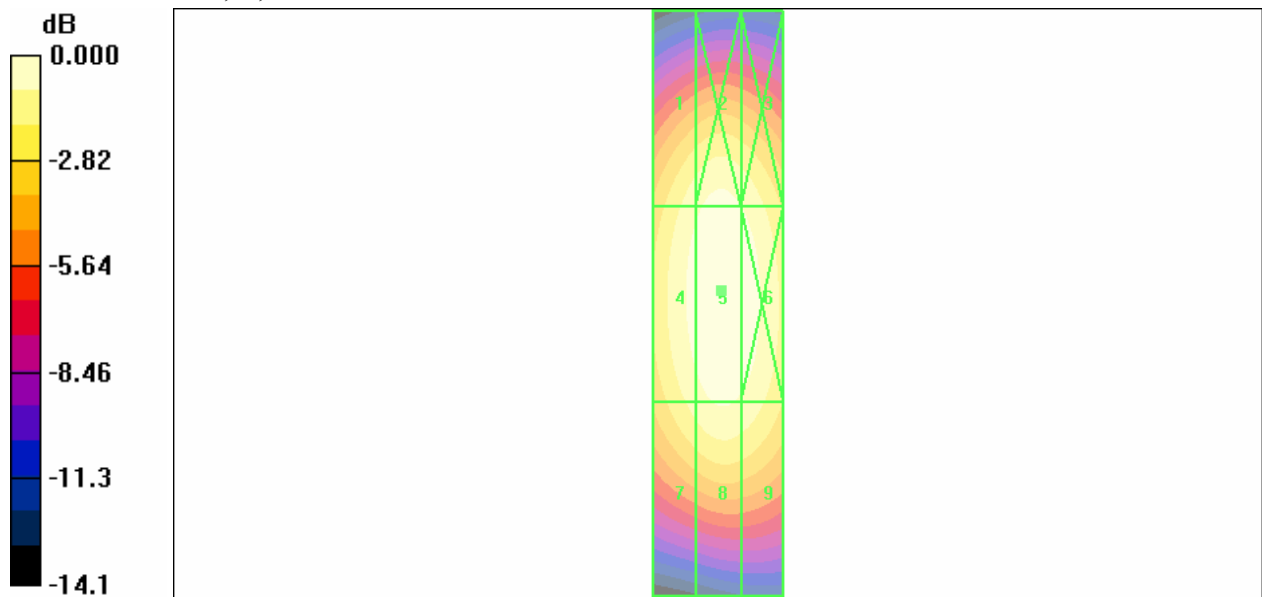
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
|----------|----------|---|--|
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 0.458 A/m

H Category: M2

Location: -0.5, -2, 365.6 mm



Date/Time: 3/19/2008 3:18:02 PM

Test Laboratory: Compliance Certification Services Inc.

HAC_H_Dipole_1880MHz-AM

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1024

Communication System: AM 80%; Frequency: 1880 MHz; Duty Cycle: 1:1

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

Phantom section: H Dipole Section

Measurement Standard: DAS4 (High Precision Assessment)

DAS4 Configuration:

- Probe: H3DV6 - SN6163; ; Calibrated: 4/20/2007
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1027
- Measurement SW: DAS4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

H Scan - H3DV6 probe tip 10mm above Device Reference/Hearing Aid

Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.323 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.350 A/m; Power Drift = 0.011 dB

Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Peak H-field in A/m

| | | |
|---------------------------|---------------------------|---------------------------|
| Grid 1 0.274 M3 | Grid 2 0.299 M3 | Grid 3 0.288 M3 |
| Grid 4 0.296 M3 | Grid 5 0.323 M3 | Grid 6 0.302 M3 |
| Grid 7 0.257 M3 | Grid 8 0.295 M3 | Grid 9 0.275 M3 |

| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|---|
| 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 |

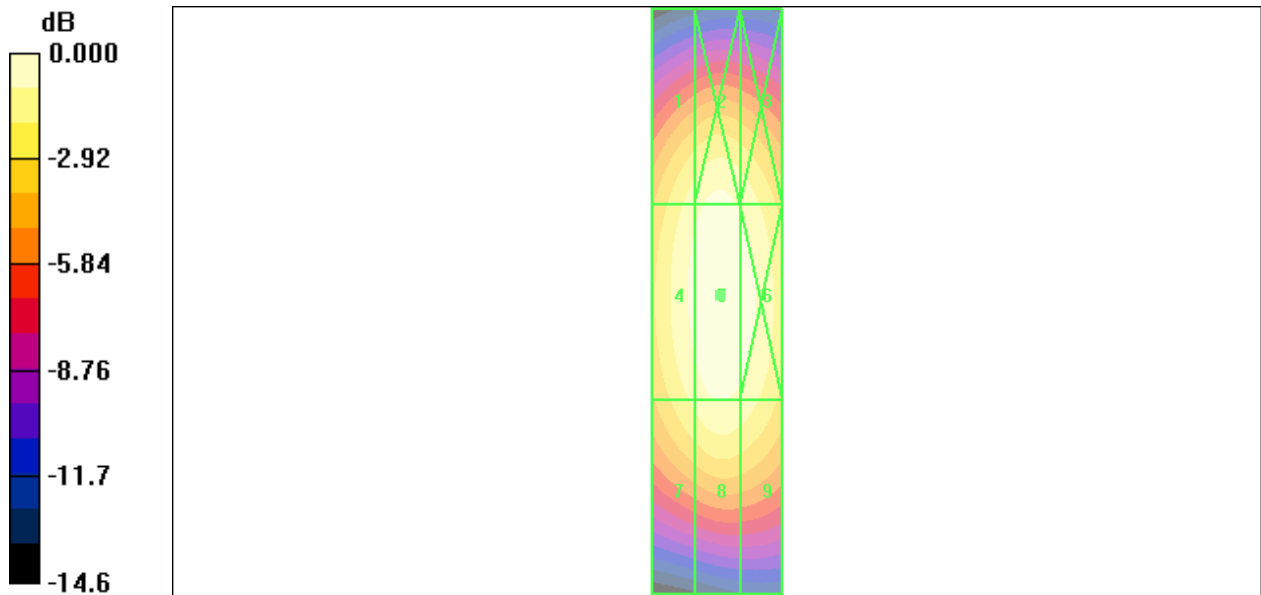
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
|----------|----------|---|--|
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 0.323 A/m

H Category: M3

Location: -0.5, -1, 365.6 mm



0 dB = 0.323A/m

Date/Time: 3/20/2008 5:49:58 AM

Test Laboratory: Compliance Certification Services Inc.

HAC_H_Dipole_1880MHz-GSM

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1024

Communication System: GSM; Frequency: 1880 MHz; Duty Cycle: 1:1

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

Phantom section: H Dipole Section

Measurement Standard: DAS4 (High Precision Assessment)

DAS4 Configuration:

- Probe: H3DV6 - SN6163; ; Calibrated: 4/20/2007
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1027
- Measurement SW: DAS4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

H Scan - H3DV6 probe tip 10mm above Device Reference/Hearing Aid

Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.219 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.177 A/m; Power Drift = 0.006 dB

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

Peak H-field in A/m

| | | |
|---------------------------|---------------------------|---------------------------|
| Grid 1 0.204 M4 | Grid 2 0.216 M4 | Grid 3 0.208 M4 |
| Grid 4 0.213 M4 | Grid 5 0.219 M4 | Grid 6 0.215 M4 |
| Grid 7 0.200 M4 | Grid 8 0.211 M4 | Grid 9 0.204 M4 |

| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|---|
| 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 |

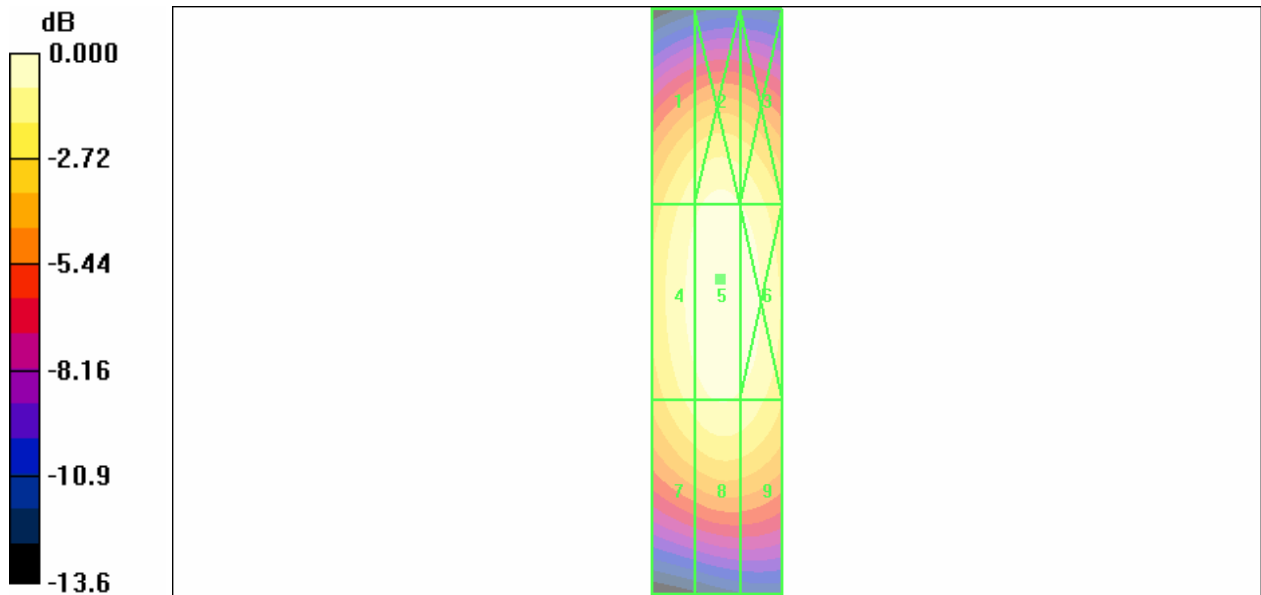
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
|----------|----------|---|--|
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 0.219 A/m

H Category: M4

Location: -0.5, -4, 365.6 mm



0 dB = 0.219A/m

Date/Time: 3/20/2008 6:18:22 AM

Test Laboratory: Compliance Certification Services Inc.

HAC_H_Dipole_1880MHz-WCDMA

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1024

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1

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

Phantom section: H Dipole Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: H3DV6 - SN6163; ; Calibrated: 4/20/2007
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1027
- Measurement SW: DASYS4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

H Scan - H3DV6 probe tip 10mm above Device Reference/Hearing Aid

Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.446 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.482 A/m; Power Drift = 0.013 dB

Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak H-field in A/m

| | | |
|---------------------------|---------------------------|---------------------------|
| Grid 1 0.403 M2 | Grid 2 0.412 M2 | Grid 3 0.375 M2 |
| Grid 4 0.437 M2 | Grid 5 0.446 M2 | Grid 6 0.426 M2 |
| Grid 7 0.392 M2 | Grid 8 0.420 M2 | Grid 9 0.388 M2 |

| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|---|
| 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 |

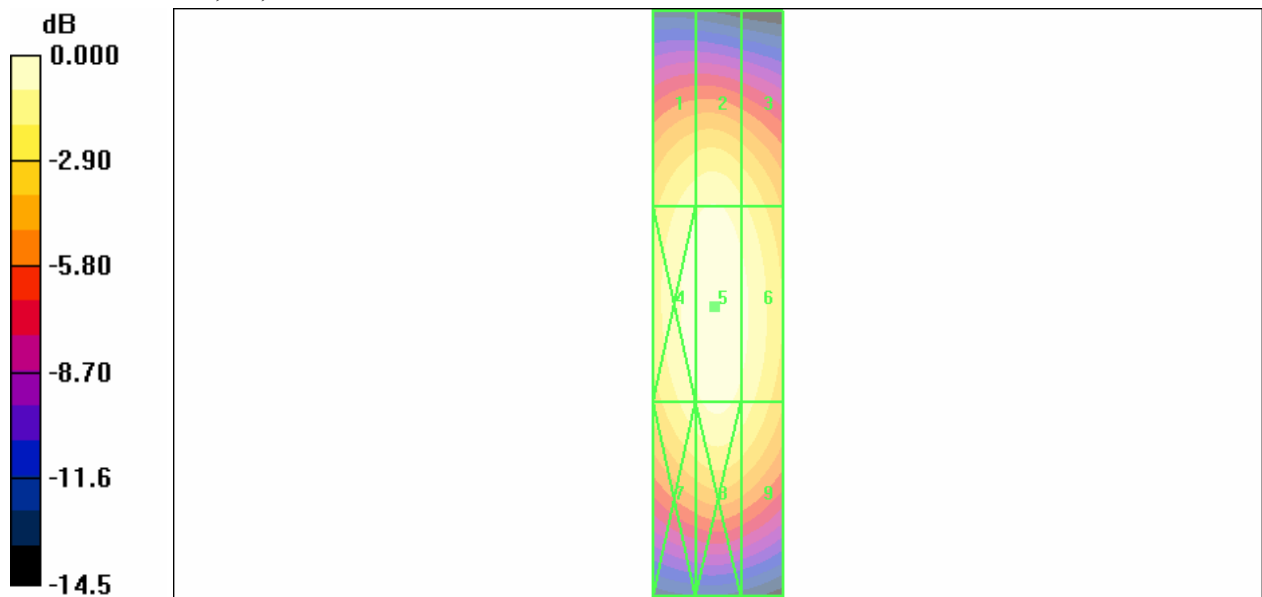
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
|----------|----------|---|--|
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 0.446 A/m

H Category: M2

Location: 0.5, 0.5, 365.6 mm



0 dB = 0.446A/m

Date/Time: 3/20/2008 5:36:09 PM

Test Laboratory: Compliance Certification Services Inc.

HAC_E_SCAN_GSM 835 POLLUX ULTIMATE 8502

DUT: ULTIMATE 8502; Type: POLLUX; Serial: N/A

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8

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

Phantom section: E Dipole Section

Measurement Standard: DAS4 (High Precision Assessment)

DAS4 Configuration:

- Probe: ER3DV6 - SN2345; ConvF(1, 1, 1); Calibrated: 4/20/2007
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1027
- Measurement SW: DAS4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

E Scan - ER probe tip 10mm above Device -Low/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 125.3 V/m

Probe Modulation Factor = 2.20

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 56.5 V/m; Power Drift = 0.005 dB

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

Peak E-field in V/m

| | | |
|----------------|-----------------|-----------------|
| Grid 1 | Grid 2 | Grid 3 |
| 96.2 M4 | 123.7 M4 | 123.7 M4 |
| Grid 4 | Grid 5 | Grid 6 |
| 95.6 M4 | 125.3 M4 | 124.3 M4 |
| Grid 7 | Grid 8 | Grid 9 |
| 91.7 M4 | 121.7 M4 | 121.5 M4 |

| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|---|
| 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 |

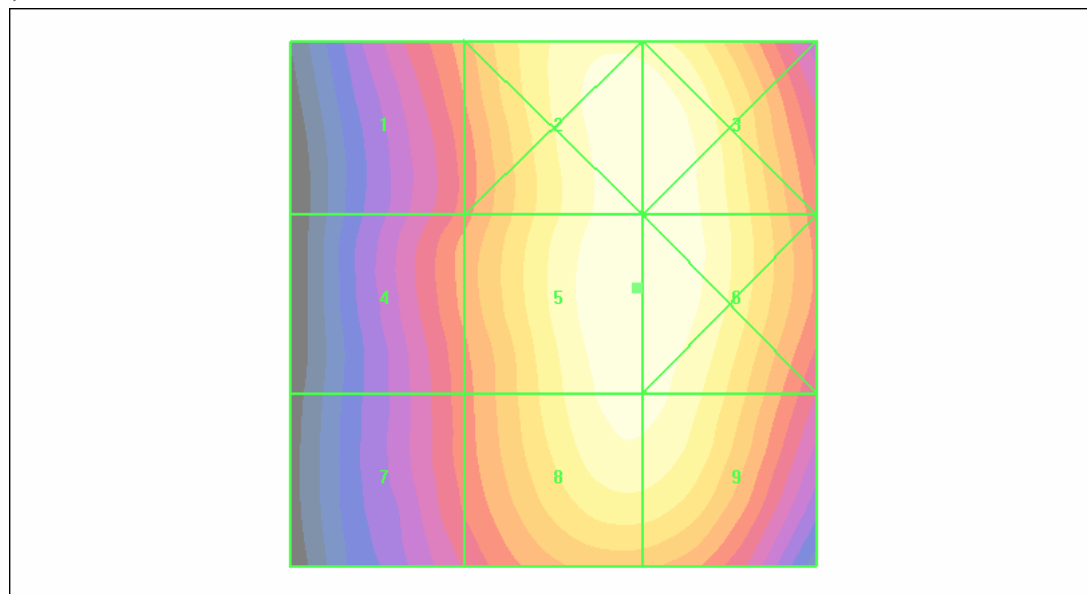
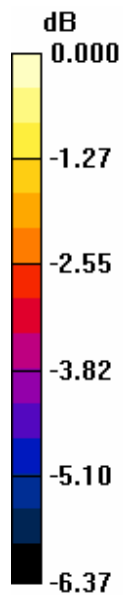
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
|----------|----------|---|--|
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 125.3 V/m

E Category: M4

Location: -8, -1.5, 365.8 mm



0 dB = 125.3V/m

Date/Time: 3/20/2008 5:27:08 PM

Test Laboratory: Compliance Certification Services Inc.

HAC_E_SCAN_GSM 835 POLLUX ULTIMATE 8502

DUT: ULTIMATE 8502; Type: POLLUX; Serial: N/A

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8

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

Phantom section: E Dipole Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2345; ConvF(1, 1, 1); Calibrated: 4/20/2007
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1027
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

E Scan - ER probe tip 10mm above Device -Middle/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 132.0 V/m

Probe Modulation Factor = 2.20

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 59.2 V/m; Power Drift = 0.046 dB

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

Peak E-field in V/m

| | | |
|---------------------------|---------------------------|---------------------------|
| Grid 1 101.1 M4 | Grid 2 129.8 M4 | Grid 3 129.8 M4 |
| Grid 4 100.4 M4 | Grid 5 132.0 M4 | Grid 6 131.0 M4 |
| Grid 7 96.8 M4 | Grid 8 129.5 M4 | Grid 9 129.2 M4 |

| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|---|
| 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 |

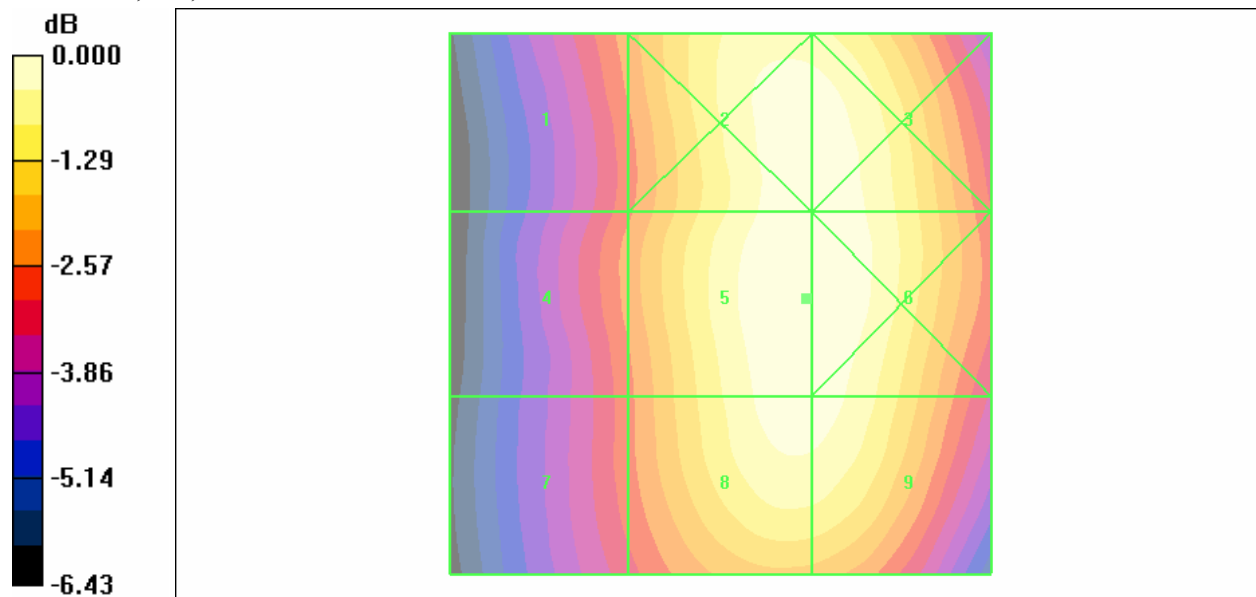
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
|----------|----------|---|--|
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 132.0 V/m

E Category: M4

Location: -8, -0.5, 365.8 mm



Date/Time: 3/20/2008 5:45:00 PM

Test Laboratory: Compliance Certification Services Inc.

HAC_E_SCAN_GSM 835 POLLUX ULTIMATE 8502

DUT: ULTIMATE 8502; Type: POLLUX; Serial: N/A

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8

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

Phantom section: E Dipole Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2345; ConvF(1, 1, 1); Calibrated: 4/20/2007
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1027
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

E Scan - ER probe tip 10mm above Device -High/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 121.7 V/m

Probe Modulation Factor = 2.20

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 54.9 V/m; Power Drift = 0.003 dB

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

Peak E-field in V/m

| | | |
|----------------|-----------------|-----------------|
| Grid 1 | Grid 2 | Grid 3 |
| 94.3 M4 | 118.6 M4 | 118.0 M4 |
| Grid 4 | Grid 5 | Grid 6 |
| 93.9 M4 | 121.7 M4 | 120.4 M4 |
| Grid 7 | Grid 8 | Grid 9 |
| 91.3 M4 | 119.5 M4 | 117.9 M4 |

| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|---|
| 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 |

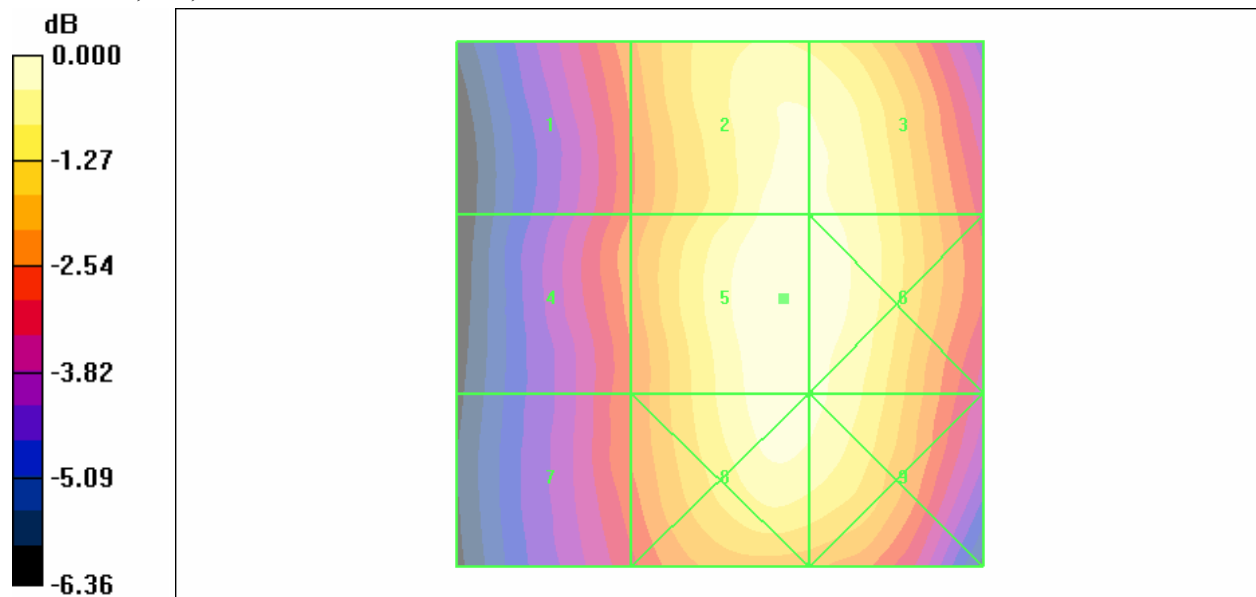
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
|----------|----------|---|--|
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 121.7 V/m

E Category: M4

Location: -6, -0.5, 365.8 mm



0 dB = 121.7V/m

Date/Time: 3/20/2008 6:36:25 PM

Test Laboratory: Compliance Certification Services Inc.

HAC_E_SCAN_PCS1900 POLLUX ULTIMATE 8502

DUT: ULTIMATE 8502; Type: POLLUX; Serial: N/A

Communication System: PCS 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: E Dipole Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2345; ConvF(1, 1, 1); Calibrated: 4/20/2007
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1027
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

E Scan - ER probe tip 10mm above Device -Low/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 26.0 V/m

Probe Modulation Factor = 2.18

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 11.30 V/m; Power Drift = 0.075 dB

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

Peak E-field in V/m

| | | |
|--------------------------|--------------------------|--------------------------|
| Grid 1 27.5 M4 | Grid 2 31.6 M4 | Grid 3 27.9 M4 |
| Grid 4 19.2 M4 | Grid 5 26.0 M4 | Grid 6 25.1 M4 |
| Grid 7 25.7 M4 | Grid 8 24.1 M4 | Grid 9 20.9 M4 |

| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|---|
| 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 |

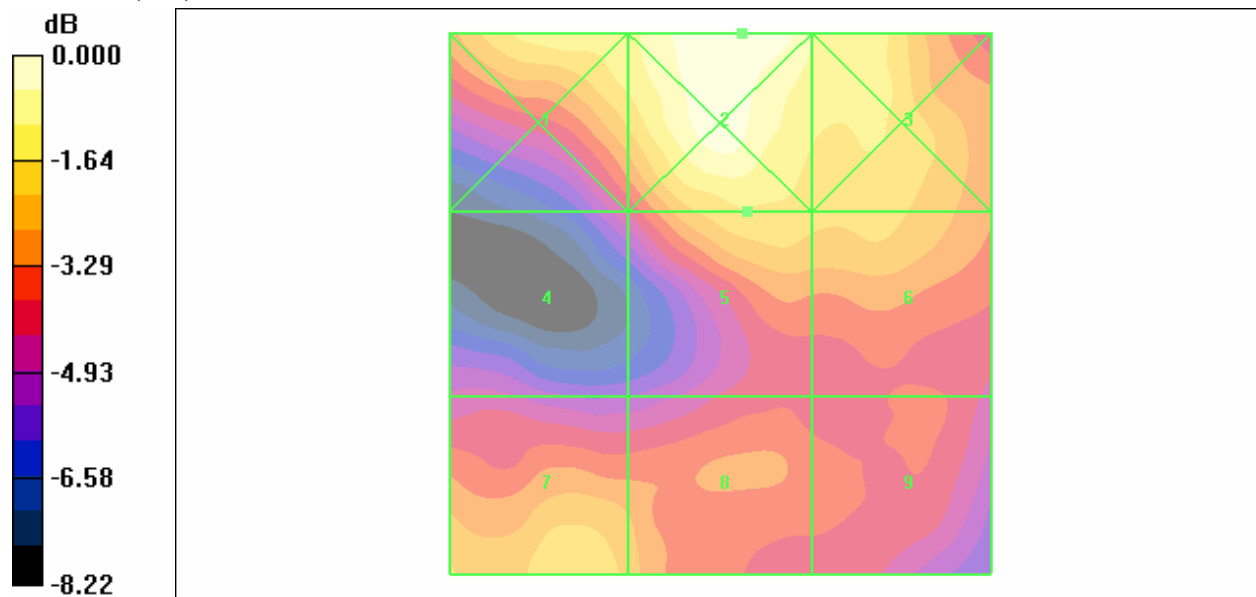
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
|----------|----------|---|--|
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 31.6 V/m

E Category: M4

Location: -2, -25, 365.8 mm



0 dB = 31.6V/m

Date/Time: 3/20/2008 6:03:32 PM

Test Laboratory: Compliance Certification Services Inc.

HAC_E_SCAN_PCS1900 POLLUX ULTIMATE 8502

DUT: ULTIMATE 8502; Type: POLLUX; Serial: N/A

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

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

Phantom section: E Dipole Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2345; ConvF(1, 1, 1); Calibrated: 4/20/2007
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1027
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

E Scan - ER probe tip 10mm above Device -Middle/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 30.5 V/m

Probe Modulation Factor = 2.18

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 13.2 V/m; Power Drift = 0.013 dB

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

Peak E-field in V/m

| | | |
|--------------------------|--------------------------|--------------------------|
| Grid 1 31.4 M4 | Grid 2 33.0 M4 | Grid 3 33.1 M4 |
| Grid 4 21.0 M4 | Grid 5 30.5 M4 | Grid 6 30.5 M4 |
| Grid 7 27.4 M4 | Grid 8 25.1 M4 | Grid 9 21.9 M4 |

| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|---|
| 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 |

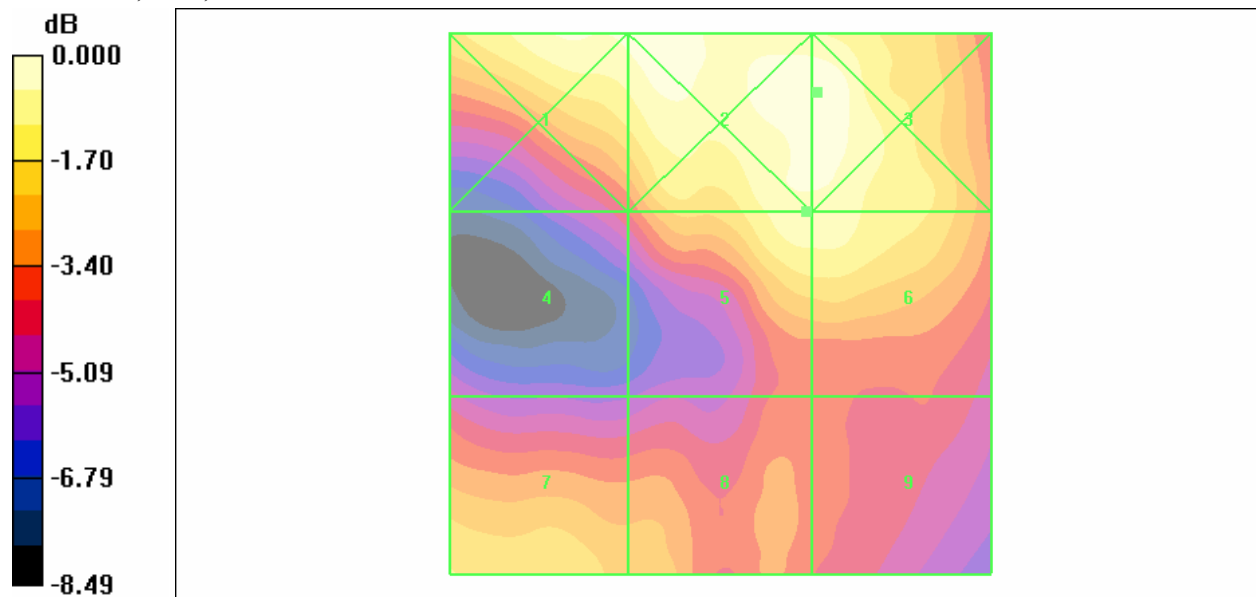
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
|----------|----------|---|--|
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 33.1 V/m

E Category: M4

Location: -9, -19.5, 365.8 mm



0 dB = 33.1V/m

Test Laboratory: Compliance Certification Services Inc.

HAC_E_SCAN_PCS1900 POLLUX ULTIMATE 8502

DUT: ULTIMATE 8502; Type: POLLUX; Serial: N/A

Communication System: PCS 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: E Dipole Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2345; ConvF(1, 1, 1); Calibrated: 4/20/2007
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1027
- Measurement SW: DAS4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

E Scan - ER probe tip 10mm above Device -High/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 33.0 V/m

Probe Modulation Factor = 2.18

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 14.8 V/m; Power Drift = 0.009 dB

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

Peak E-field in V/m

| | | |
|--------------------------|--------------------------|--------------------------|
| Grid 1 35.5 M4 | Grid 2 37.2 M4 | Grid 3 35.7 M4 |
| Grid 4 23.4 M4 | Grid 5 33.0 M4 | Grid 6 32.9 M4 |
| Grid 7 29.4 M4 | Grid 8 25.8 M4 | Grid 9 24.3 M4 |

| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|---|
| 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 |

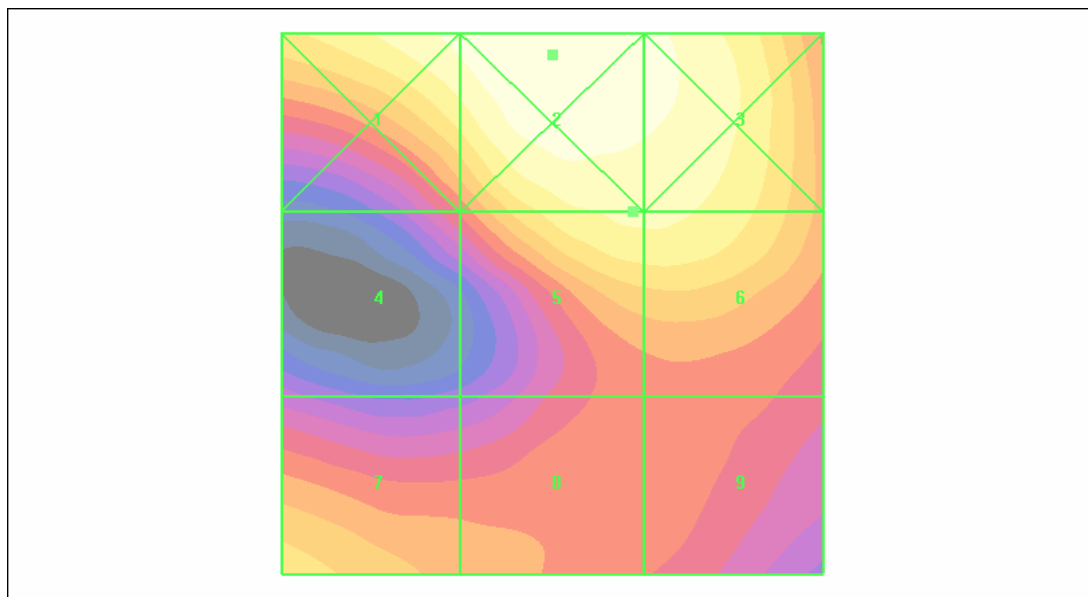
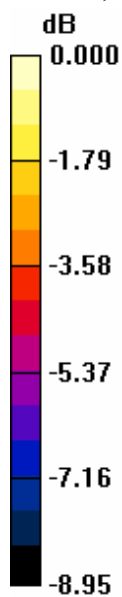
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
|----------|----------|---|--|
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 37.2 V/m

E Category: M4

Location: 0, -23, 365.8 mm



0 dB = 37.2V/m

Date/Time: 3/20/2008 5:04:11 PM

Test Laboratory: Compliance Certification Services Inc.

HAC_E_SCAN_WCDMA Band v POLLUX ULTIMATE 8502

DUT: ULTIMATE 8502; Type: POLLUX; Serial: N/A

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

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

Phantom section: E Dipole Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2345; ConvF(1, 1, 1); Calibrated: 4/20/2007
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1027
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

E Scan - ER probe tip 10mm above Device -Low/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 78.4 V/m

Probe Modulation Factor = 1.07

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 72.2 V/m; Power Drift = 0.006 dB

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

Peak E-field in V/m

| | | |
|--------------------------|--------------------------|--------------------------|
| Grid 1 62.4 M4 | Grid 2 78.6 M4 | Grid 3 78.5 M4 |
| Grid 4 60.2 M4 | Grid 5 78.4 M4 | Grid 6 78.3 M4 |
| Grid 7 57.4 M4 | Grid 8 75.6 M4 | Grid 9 75.4 M4 |

| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|---|
| 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 |

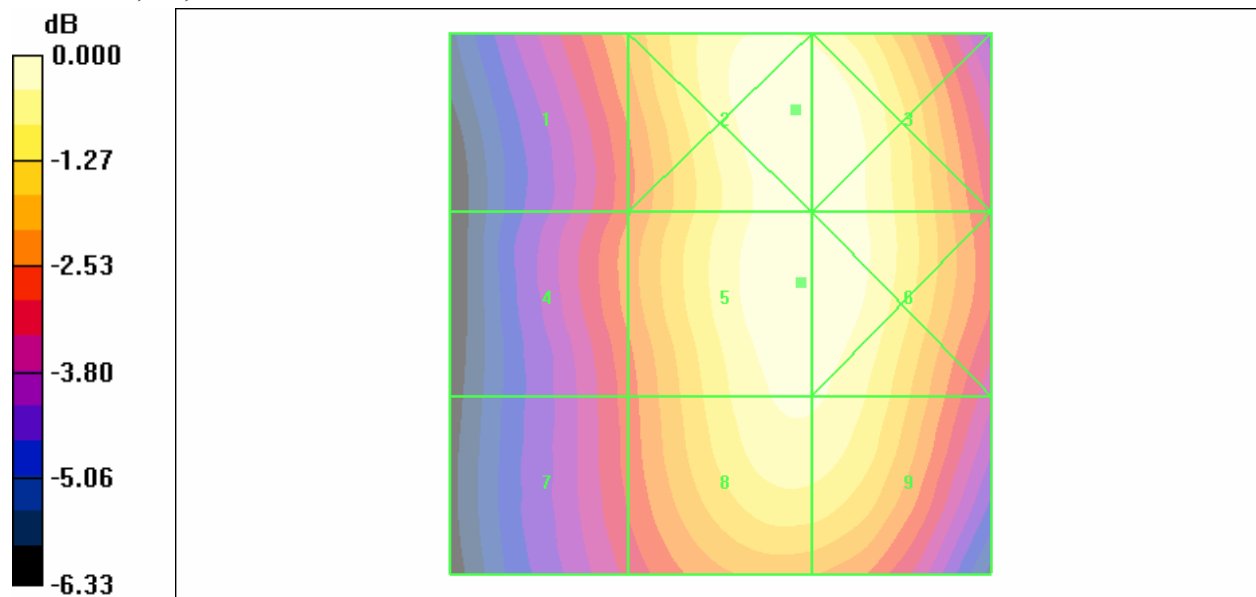
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
|----------|----------|---|--|
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 78.6 V/m

E Category: M4

Location: -7, -18, 365.8 mm



0 dB = 78.6V/m

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Test Laboratory: Compliance Certification Services Inc.

HAC_E_SCAN_WCDMA Band v POLLUX ULTIMATE 8502

DUT: ULTIMATE 8502; Type: POLLUX; Serial: N/A

Communication System: WCDMA ; Frequency: 836.6 MHz; Duty Cycle: 1:1

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

Phantom section: E Dipole Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2345; ConvF(1, 1, 1); Calibrated: 4/20/2007
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1027
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

E Scan - ER probe tip 10mm above Device -Middle/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 99.2 V/m

Probe Modulation Factor = 1.07

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 92.0 V/m; Power Drift = 0.000 dB

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

Peak E-field in V/m

| | | |
|----------------|----------------|----------------|
| Grid 1 | Grid 2 | Grid 3 |
| 77.9 M4 | 98.7 M4 | 98.5 M4 |
| Grid 4 | Grid 5 | Grid 6 |
| 76.8 M4 | 99.2 M4 | 99.0 M4 |
| Grid 7 | Grid 8 | Grid 9 |
| 72.8 M4 | 96.0 M4 | 95.7 M4 |

| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|---|
| 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 |

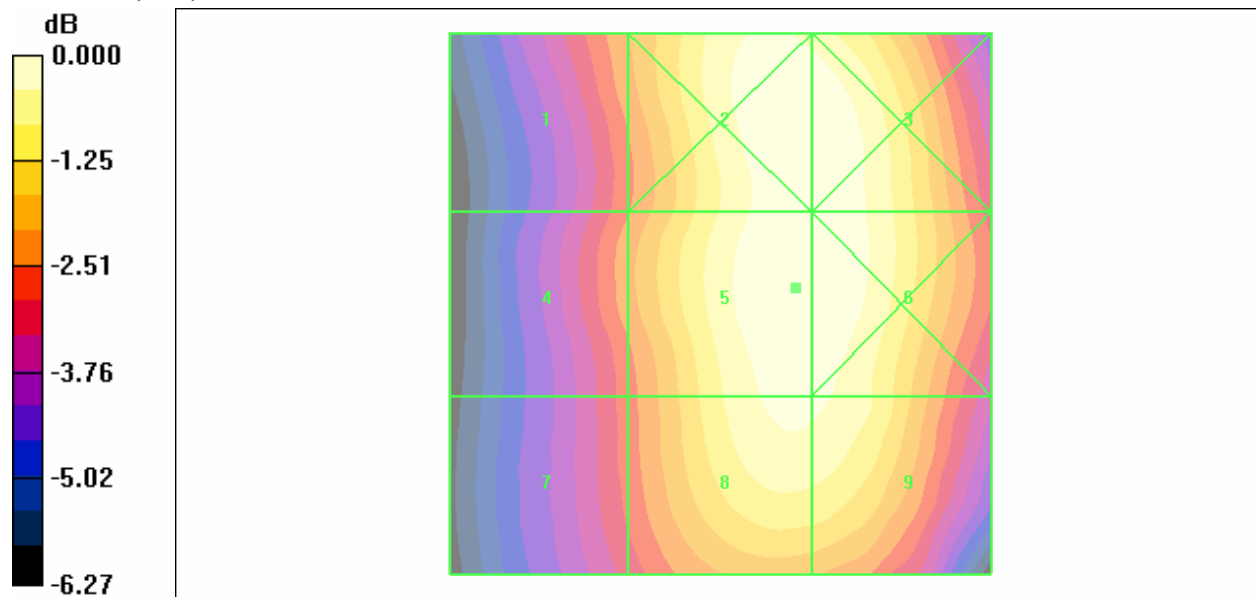
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
|----------|----------|---|--|
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 99.2 V/m

E Category: M4

Location: -7, -1.5, 365.8 mm



0 dB = 99.2V/m

Date/Time: 3/20/2008 5:13:39 PM

Test Laboratory: Compliance Certification Services Inc.

HAC_E_SCAN_WCDMA Band v POLLUX ULTIMATE 8502

DUT: ULTIMATE 8502; Type: POLLUX; Serial: N/A

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

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

Phantom section: E Dipole Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2345; ConvF(1, 1, 1); Calibrated: 4/20/2007
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1027
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

E Scan - ER probe tip 10mm above Device -High/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 83.7 V/m

Probe Modulation Factor = 1.07

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 77.6 V/m; Power Drift = 0.009 dB

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

Peak E-field in V/m

| | | |
|----------------|----------------|----------------|
| Grid 1 | Grid 2 | Grid 3 |
| 66.4 M4 | 82.7 M4 | 82.6 M4 |
| Grid 4 | Grid 5 | Grid 6 |
| 64.9 M4 | 83.7 M4 | 83.5 M4 |
| Grid 7 | Grid 8 | Grid 9 |
| 62.5 M4 | 81.4 M4 | 81.1 M4 |

| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|---|
| 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 |

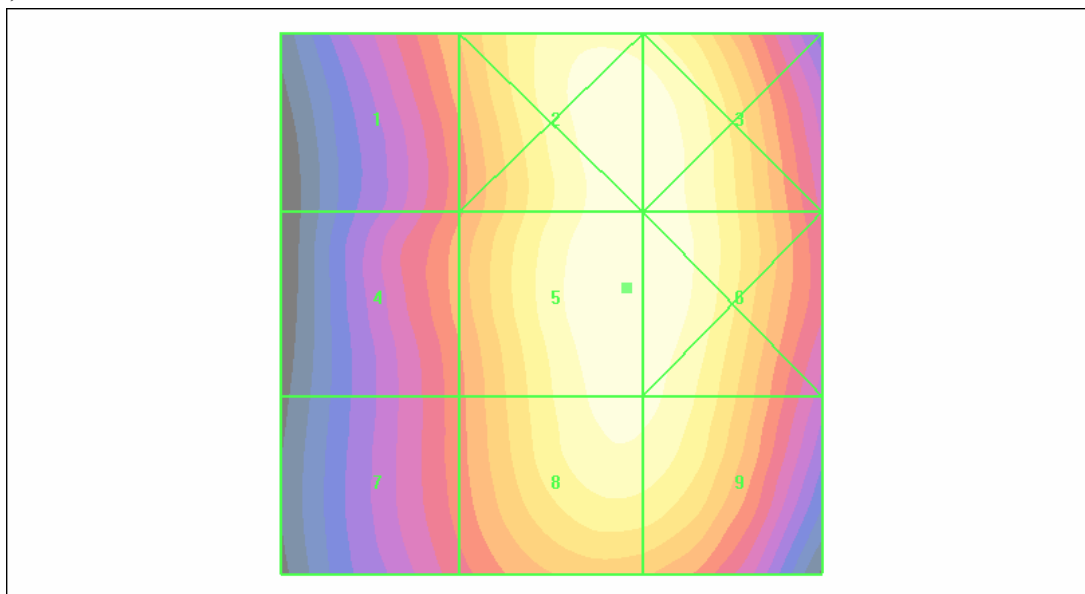
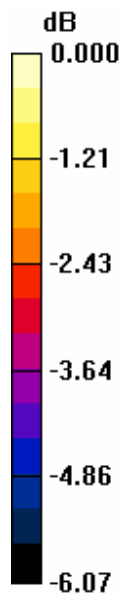
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
|----------|----------|---|--|
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 83.7 V/m

E Category: M4

Location: -7, -1.5, 365.8 mm



0 dB = 83.7V/m

Date/Time: 3/20/2008 4:25:09 PM

Test Laboratory: Compliance Certification Services Inc.

HAC_E_SCAN_WCDMA Band II POLLUX ULTIMATE 8502

DUT: ULTIMATE 8502; Type: POLLUX; Serial: N/A

Communication System: WCDMA ; Frequency: 1852.4 MHz; Duty Cycle: 1:1

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

Phantom section: E Dipole Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2345; ConvF(1, 1, 1); Calibrated: 4/20/2007
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1027
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

E Scan - ER probe tip 10mm above Device -Low/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 57.0 V/m

Probe Modulation Factor = 1.08

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 52.2 V/m; Power Drift = 0.060 dB

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

Peak E-field in V/m

| | | |
|--------------------------|--------------------------|--------------------------|
| Grid 1 62.5 M4 | Grid 2 65.2 M3 | Grid 3 61.8 M4 |
| Grid 4 41.9 M4 | Grid 5 55.7 M4 | Grid 6 55.4 M4 |
| Grid 7 57.0 M4 | Grid 8 52.5 M4 | Grid 9 48.1 M4 |

| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|---|
| 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 |

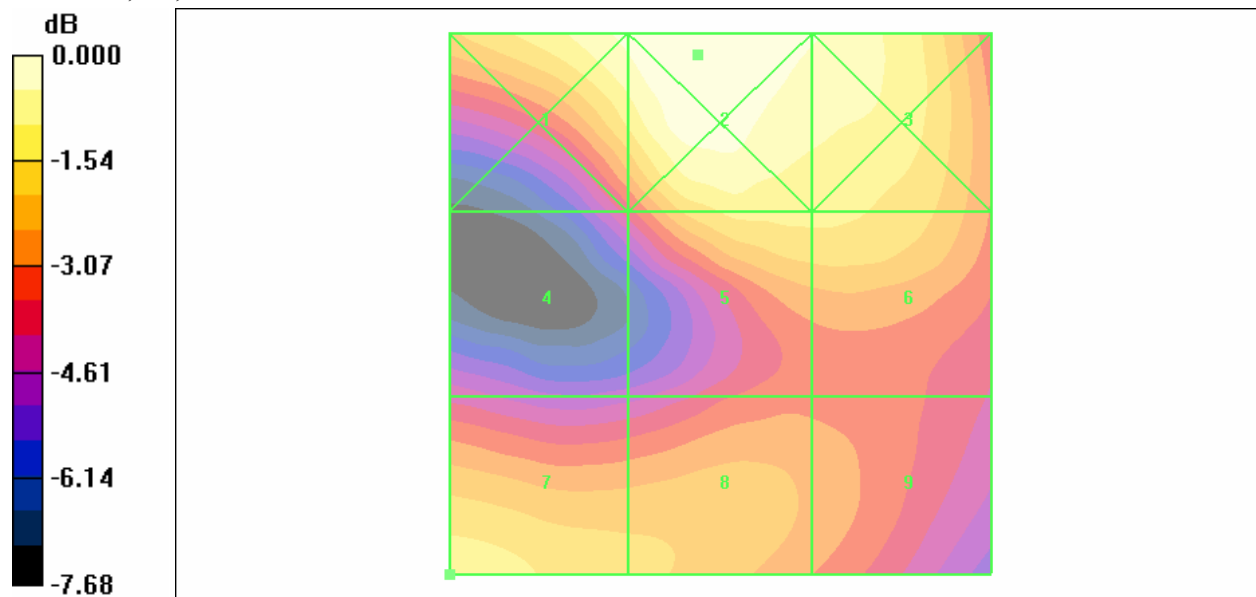
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
|----------|----------|---|--|
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 65.2 V/m

E Category: M3

Location: 2, -23, 365.8 mm



0 dB = 65.2V/m

Date/Time: 3/20/2008 4:16:08 PM

Test Laboratory: Compliance Certification Services Inc.

HAC_E_SCAN_WCDMA Band II POLLUX ULTIMATE 8502

DUT: ULTIMATE 8502; Type: POLLUX; Serial: N/A

Communication System: WCDMA ; Frequency: 1880 MHz; Duty Cycle: 1:1

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

Phantom section: E Dipole Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2345; ConvF(1, 1, 1); Calibrated: 4/20/2007
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1027
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

E Scan - ER probe tip 10mm above Device -Middle/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 59.1 V/m

Probe Modulation Factor = 1.08

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 54.6 V/m; Power Drift = 0.060 dB

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

Peak E-field in V/m

| | | |
|--------------------------|--------------------------|--------------------------|
| Grid 1 64.9 M3 | Grid 2 68.4 M3 | Grid 3 65.2 M3 |
| Grid 4 42.6 M4 | Grid 5 59.1 M4 | Grid 6 59.1 M4 |
| Grid 7 54.5 M4 | Grid 8 49.3 M4 | Grid 9 44.9 M4 |

| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|---|
| 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 |

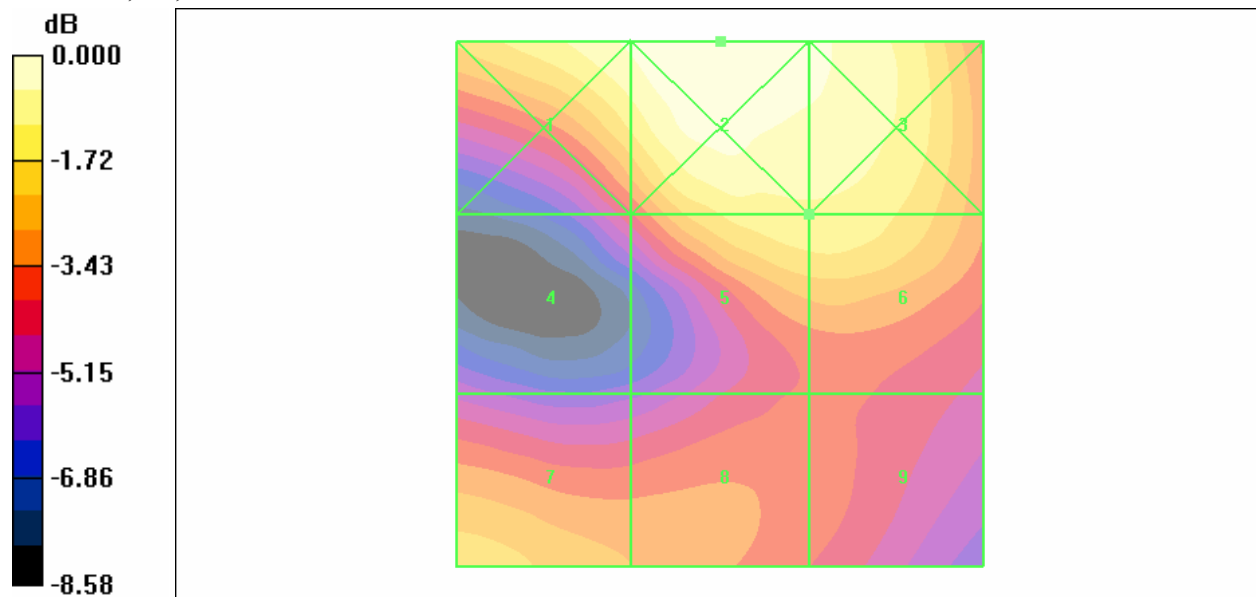
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
|----------|----------|---|--|
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 68.4 V/m

E Category: M3

Location: 0, -25, 365.8 mm



0 dB = 68.4V/m

Date/Time: 3/20/2008 4:33:34 PM

Test Laboratory: Compliance Certification Services Inc.

HAC_E_SCAN_WCDMA Band II POLLUX ULTIMATE 8502

DUT: ULTIMATE 8502; Type: POLLUX; Serial: N/A

Communication System: WCDMA ; Frequency: 1907.6 MHz; Duty Cycle: 1:1

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

Phantom section: E Dipole Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2345; ConvF(1, 1, 1); Calibrated: 4/20/2007
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1027
- Measurement SW: DAS4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

E Scan - ER probe tip 10mm above Device -High/Hearing Aid

Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 47.9 V/m

Probe Modulation Factor = 1.08

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 44.4 V/m; Power Drift = 0.074 dB

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

Peak E-field in V/m

| | | |
|----------------|----------------|----------------|
| Grid 1 | Grid 2 | Grid 3 |
| 51.0 M4 | 53.7 M4 | 52.7 M4 |
| Grid 4 | Grid 5 | Grid 6 |
| 36.1 M4 | 47.9 M4 | 47.9 M4 |
| Grid 7 | Grid 8 | Grid 9 |
| 42.7 M4 | 38.8 M4 | 37.0 M4 |

| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|---|
| 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 |

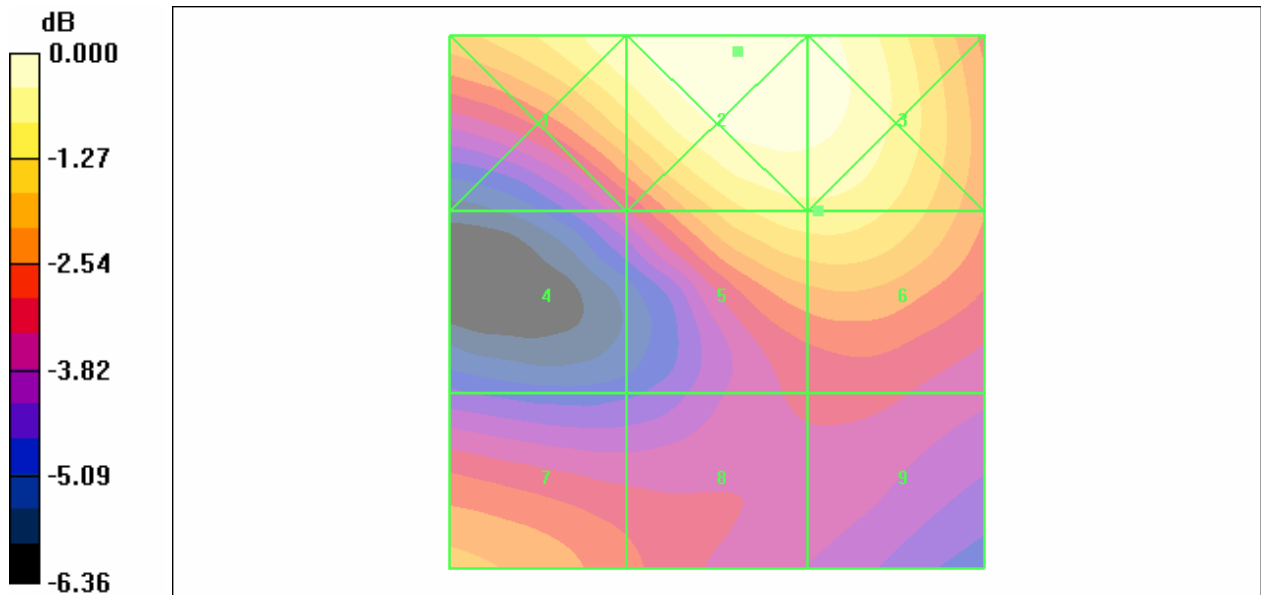
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
|----------|----------|---|--|
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 53.7 V/m

E Category: M4

Location: -2, -23.5, 365.8 mm



0 dB = 53.7V/m

Date/Time: 3/20/2008 8:16:36 AM

Test Laboratory: Compliance Certification Services Inc.

HAC_H_SCAN_GSM 835 POLLUX ULTIMATE 8502

DUT: ULTIMATE 8502; Type: POLLUX; Serial: N/A

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8

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

Phantom section: H Device Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: H3DV6 - SN6163; ; Calibrated: 4/20/2007
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1027
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

H Scan - H probe tip 10mm above Device -Low/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.374 A/m

Probe Modulation Factor = 2.10

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.168 A/m; Power Drift = 0.040 dB

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

Peak H-field in A/m

| | | |
|---------------------------|---------------------------|---------------------------|
| Grid 1 0.453 M3 | Grid 2 0.451 M3 | Grid 3 0.324 M4 |
| Grid 4 0.374 M4 | Grid 5 0.374 M4 | Grid 6 0.304 M4 |
| Grid 7 0.280 M4 | Grid 8 0.260 M4 | Grid 9 0.229 M4 |

| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|---|
| 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 |

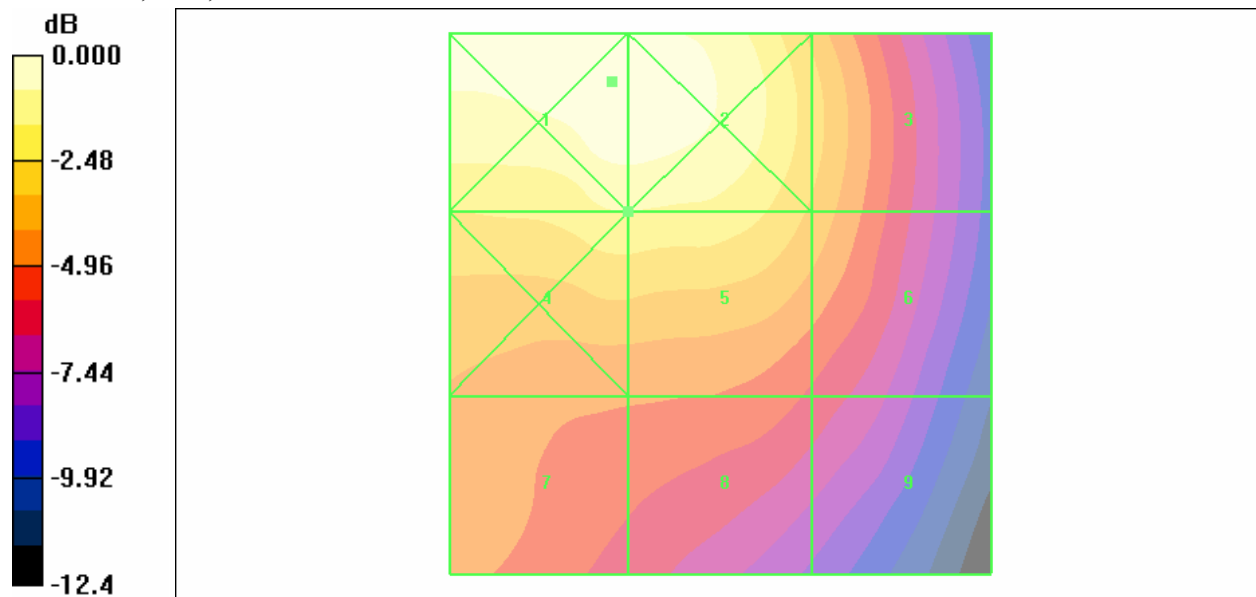
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
|----------|----------|---|--|
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 0.453 A/m

H Category: M3

Location: 10, -20.5, 365.6 mm



0 dB = 0.453A/m

Date/Time: 3/20/2008 8:08:35 AM

Test Laboratory: Compliance Certification Services Inc.

HAC_H_SCAN_GSM 835 POLLUX ULTIMATE 8502

DUT: ULTIMATE 8502; Type: POLLUX; Serial: N/A

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8

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

Phantom section: H Device Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: H3DV6 - SN6163; ; Calibrated: 4/20/2007
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1027
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

H Scan - H probe tip 10mm above Device -Middle/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.389 A/m

Probe Modulation Factor = 2.10

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.176 A/m; Power Drift = 0.008 dB

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

Peak H-field in A/m

| | | |
|---------------------------|---------------------------|---------------------------|
| Grid 1 0.460 M3 | Grid 2 0.459 M3 | Grid 3 0.337 M4 |
| Grid 4 0.385 M4 | Grid 5 0.389 M4 | Grid 6 0.318 M4 |
| Grid 7 0.308 M4 | Grid 8 0.278 M4 | Grid 9 0.242 M4 |

| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|---|
| 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 |

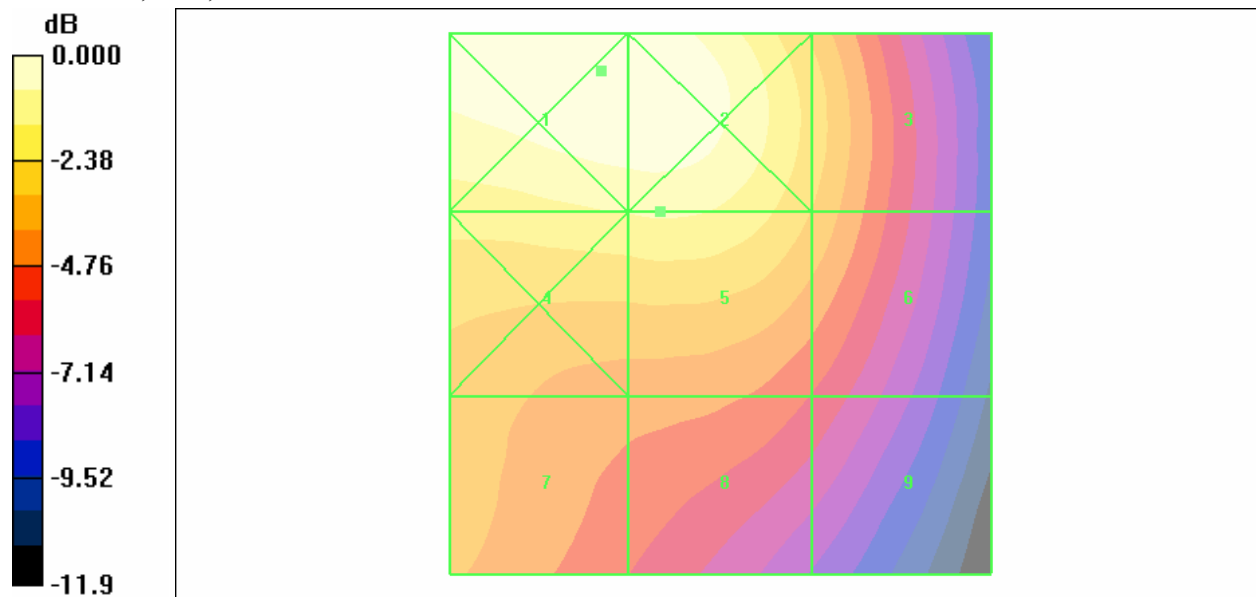
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
|----------|----------|---|--|
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 0.460 A/m

H Category: M3

Location: 11, -21.5, 365.6 mm



0 dB = 0.460A/m

Date/Time: 3/20/2008 8:24:22 AM

Test Laboratory: Compliance Certification Services Inc.

HAC_H_SCAN_GSM 835 POLLUX ULTIMATE 8502

DUT: ULTIMATE 8502; Type: POLLUX; Serial: N/A

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8

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

Phantom section: H Device Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: H3DV6 - SN6163; ; Calibrated: 4/20/2007
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1027
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

H Scan - H probe tip 10mm above Device -High/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.336 A/m

Probe Modulation Factor = 2.10

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.140 A/m; Power Drift = 0.045 dB

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

Peak H-field in A/m

| | | |
|---------------------------|---------------------------|---------------------------|
| Grid 1 0.390 M4 | Grid 2 0.390 M4 | Grid 3 0.280 M4 |
| Grid 4 0.336 M4 | Grid 5 0.336 M4 | Grid 6 0.267 M4 |
| Grid 7 0.261 M4 | Grid 8 0.246 M4 | Grid 9 0.211 M4 |

| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|---|
| 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 |

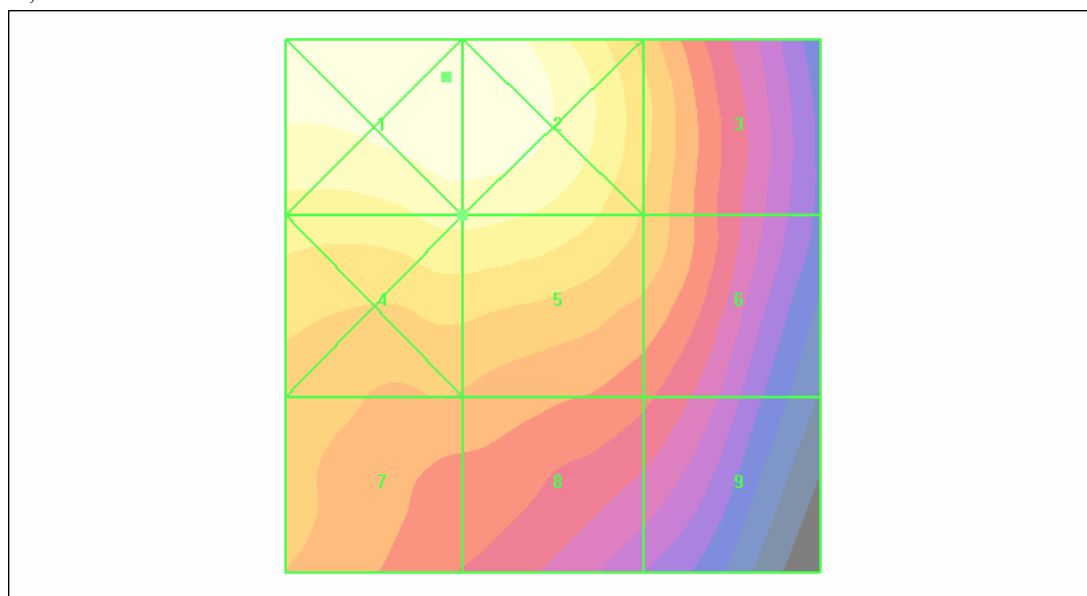
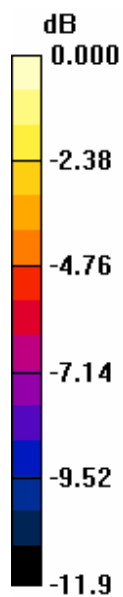
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
|----------|----------|---|--|
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 0.390 A/m

H Category: M4

Location: 10, -21.5, 365.6 mm



0 dB = 0.390A/m

Date/Time: 3/20/2008 8:44:49 AM

Test Laboratory: Compliance Certification Services Inc.

HAC_H_SCAN_PCS1900 POLLUX ULTIMATE 8502

DUT: ULTIMATE 8502; Type: POLLUX; Serial: N/A

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

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

Phantom section: H Device Section

Measurement Standard: DAS4 (High Precision Assessment)

DAS4 Configuration:

- Probe: H3DV6 - SN6163; ; Calibrated: 4/20/2007
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1027
- Measurement SW: DAS4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

H Scan - H probe tip 10mm above Device -Low/Hearing Aid Compatibility

Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.111 A/m

Probe Modulation Factor = 2.09

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.050 A/m; Power Drift = 0.009 dB

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

Peak H-field in A/m

| | | |
|---------------------------|---------------------------|---------------------------|
| Grid 1 0.093 M4 | Grid 2 0.108 M4 | Grid 3 0.103 M4 |
| Grid 4 0.095 M4 | Grid 5 0.111 M4 | Grid 6 0.106 M4 |
| Grid 7 0.085 M4 | Grid 8 0.102 M4 | Grid 9 0.097 M4 |

| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|---|
| 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 |

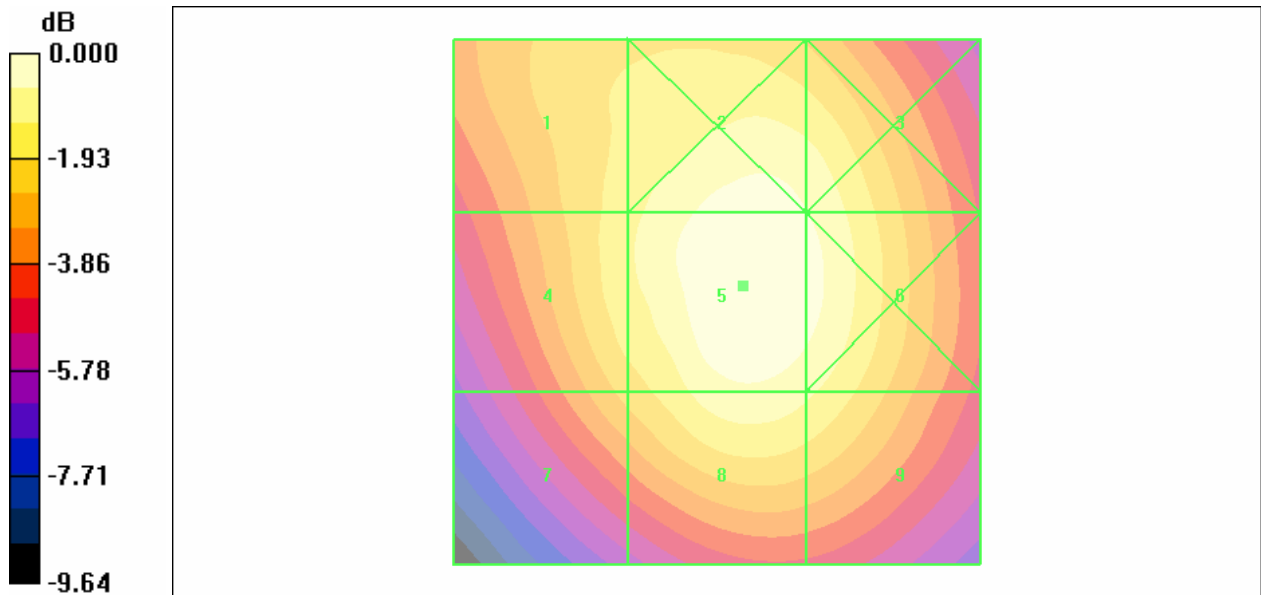
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
|----------|----------|---|--|
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 0.111 A/m

H Category: M4

Location: -2.5, -1.5, 365.6 mm



0 dB = 0.111A/m

Date/Time: 3/20/2008 8:36:52 AM

Test Laboratory: Compliance Certification Services Inc.

HAC_H_SCAN_PCS1900 POLLUX ULTIMATE 8502

DUT: ULTIMATE 8502; Type: POLLUX; Serial: N/A

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

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

Phantom section: H Device Section

Measurement Standard: DAS4 (High Precision Assessment)

DAS4 Configuration:

- Probe: H3DV6 - SN6163; ; Calibrated: 4/20/2007
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1027
- Measurement SW: DAS4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

H Scan - H probe tip 10mm above Device -Middle/Hearing Aid

Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.121 A/m

Probe Modulation Factor = 2.09

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.052 A/m; Power Drift = 0.042 dB

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

Peak H-field in A/m

| | | |
|---------------------------|---------------------------|---------------------------|
| Grid 1 0.102 M4 | Grid 2 0.117 M4 | Grid 3 0.113 M4 |
| Grid 4 0.103 M4 | Grid 5 0.121 M4 | Grid 6 0.117 M4 |
| Grid 7 0.095 M4 | Grid 8 0.114 M4 | Grid 9 0.110 M4 |

| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|---|
| 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 |

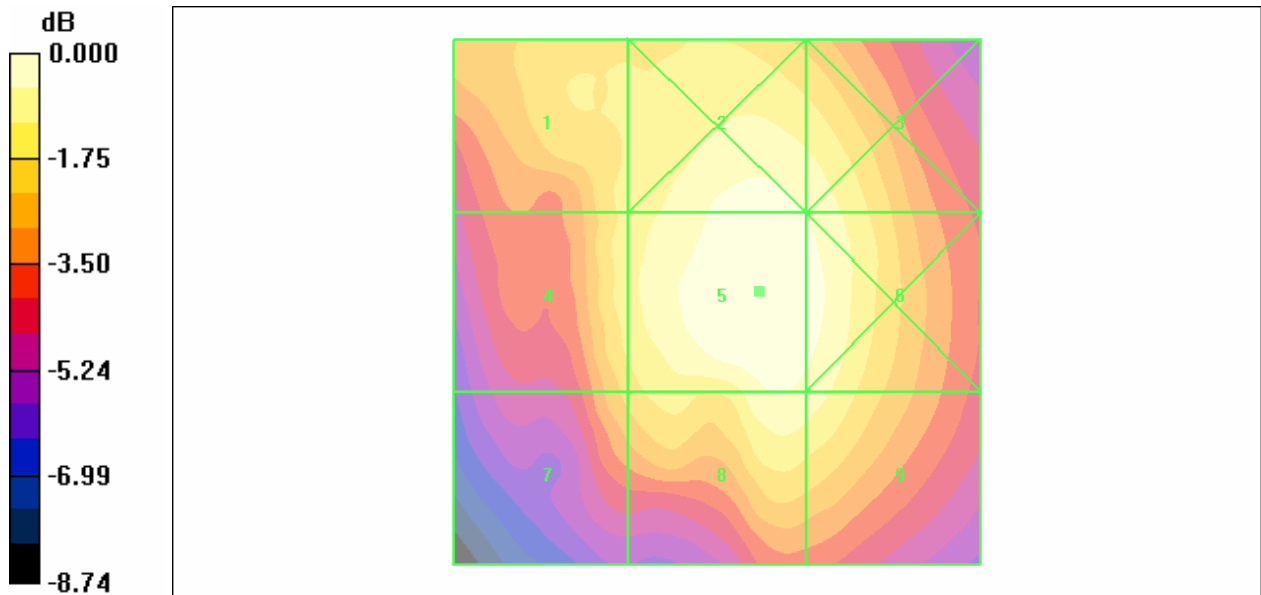
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
|----------|----------|---|--|
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 0.121 A/m

H Category: M4

Location: -4, -1, 365.6 mm



0 dB = 0.121A/m

Date/Time: 3/20/2008 8:52:22 AM

Test Laboratory: Compliance Certification Services Inc.

HAC_H_SCAN_PCS1900 POLLUX ULTIMATE 8502

DUT: ULTIMATE 8502; Type: POLLUX; Serial: N/A

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

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

Phantom section: H Device Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: H3DV6 - SN6163; ; Calibrated: 4/20/2007
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1027
- Measurement SW: DAS4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

H Scan - H probe tip 10mm above Device -High/Hearing Aid

Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.127 A/m

Probe Modulation Factor = 2.09

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.055 A/m; Power Drift = 0.004 dB

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

Peak H-field in A/m

| | | |
|---------------------------|---------------------------|---------------------------|
| Grid 1 0.110 M4 | Grid 2 0.122 M4 | Grid 3 0.117 M4 |
| Grid 4 0.111 M4 | Grid 5 0.127 M4 | Grid 6 0.121 M4 |
| Grid 7 0.102 M4 | Grid 8 0.119 M4 | Grid 9 0.114 M4 |

| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|---|
| 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 |

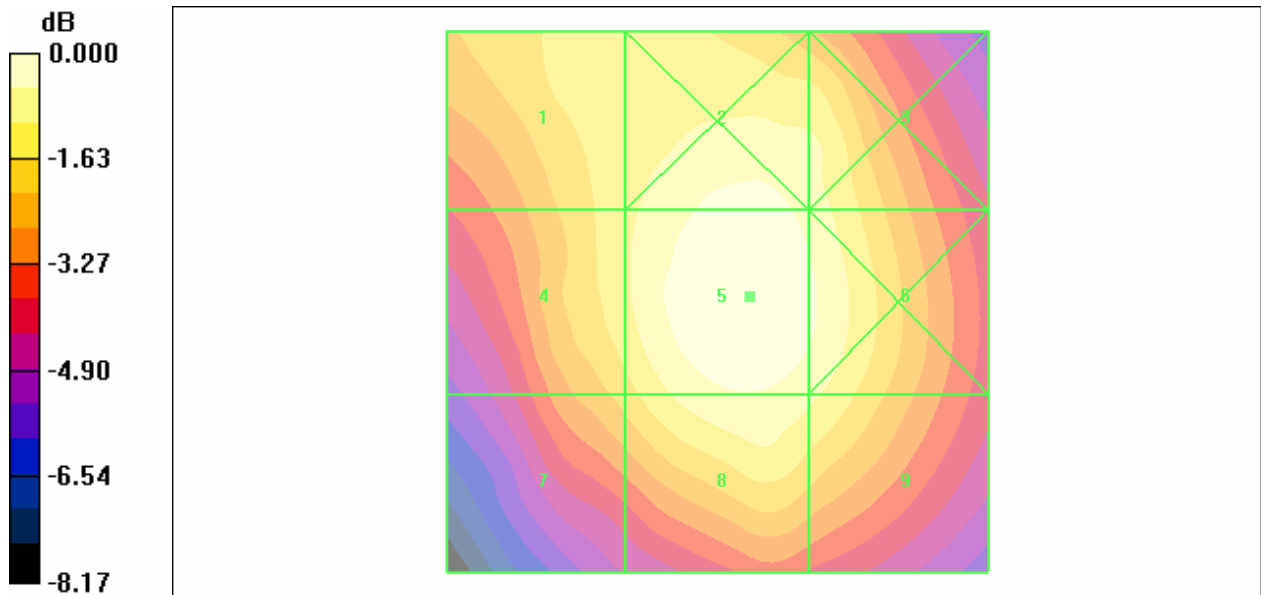
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
|----------|----------|---|--|
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 0.127 A/m

H Category: M4

Location: -3, -0.5, 365.6 mm



0 dB = 0.127A/m

Date/Time: 3/20/2008 9:13:43 AM

Test Laboratory: Compliance Certification Services Inc.

HAC_H_SCAN_WCDMA Band V POLLUX ULTIMATE 8502

DUT: ULTIMATE 8502; Type: POLLUX; Serial: N/A

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

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

Phantom section: H Device Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: H3DV6 - SN6163; ; Calibrated: 4/20/2007
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1027
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

H Scan - H probe tip 10mm above Device -Low/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.212 A/m

Probe Modulation Factor = 1.03

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.195 A/m; Power Drift = 0.017 dB

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

Peak H-field in A/m

| | | |
|---------------------------|---------------------------|---------------------------|
| Grid 1 0.248 M4 | Grid 2 0.248 M4 | Grid 3 0.182 M4 |
| Grid 4 0.208 M4 | Grid 5 0.212 M4 | Grid 6 0.174 M4 |
| Grid 7 0.159 M4 | Grid 8 0.151 M4 | Grid 9 0.132 M4 |

| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|---|
| 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 |

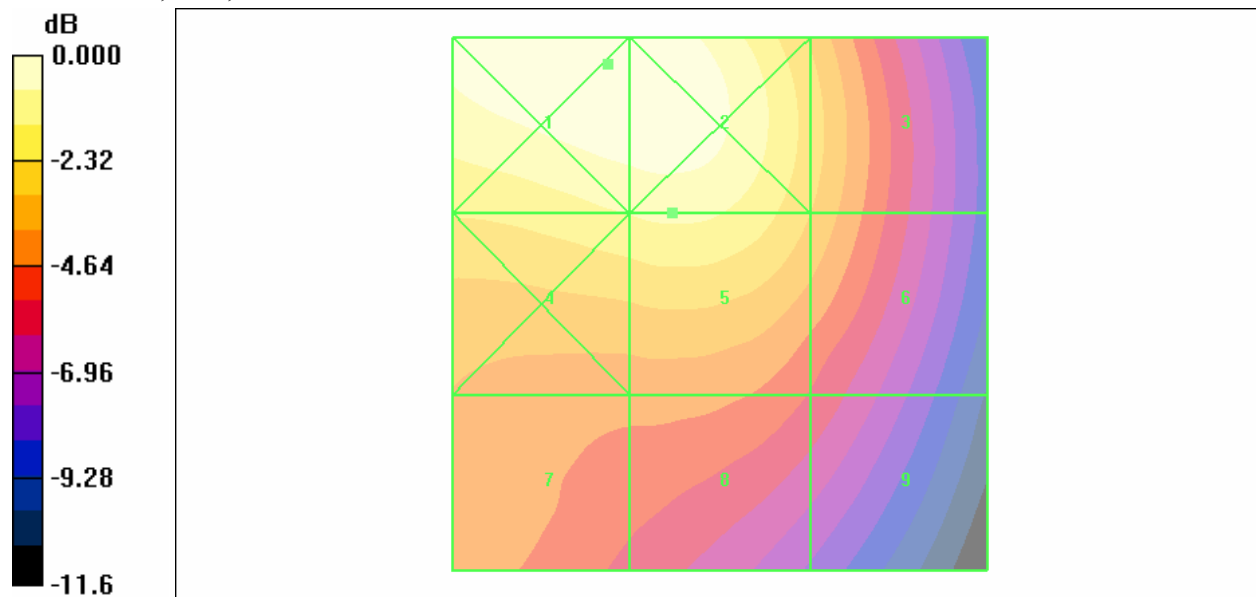
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
|----------|----------|---|--|
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 0.248 A/m

H Category: M4

Location: 10.5, -22.5, 365.6 mm



0 dB = 0.248A/m

Date/Time: 3/20/2008 9:05:06 AM

Test Laboratory: Compliance Certification Services Inc.

HAC_H_SCAN_WCDMA Band V POLLUX ULTIMATE 8502

DUT: ULTIMATE 8502; Type: POLLUX; Serial: N/A

Communication System: WCDMA ; Frequency: 836.6 MHz; Duty Cycle: 1:1

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

Phantom section: H Device Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: H3DV6 - SN6163; ; Calibrated: 4/20/2007
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1027
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

H Scan - H probe tip 10mm above Device -Middle/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.256 A/m

Probe Modulation Factor = 1.03

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.236 A/m; Power Drift = 0.010 dB

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

Peak H-field in A/m

| | | |
|---------------------------|---------------------------|---------------------------|
| Grid 1 0.296 M4 | Grid 2 0.295 M4 | Grid 3 0.222 M4 |
| Grid 4 0.251 M4 | Grid 5 0.256 M4 | Grid 6 0.212 M4 |
| Grid 7 0.197 M4 | Grid 8 0.186 M4 | Grid 9 0.163 M4 |

| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|---|
| 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 |

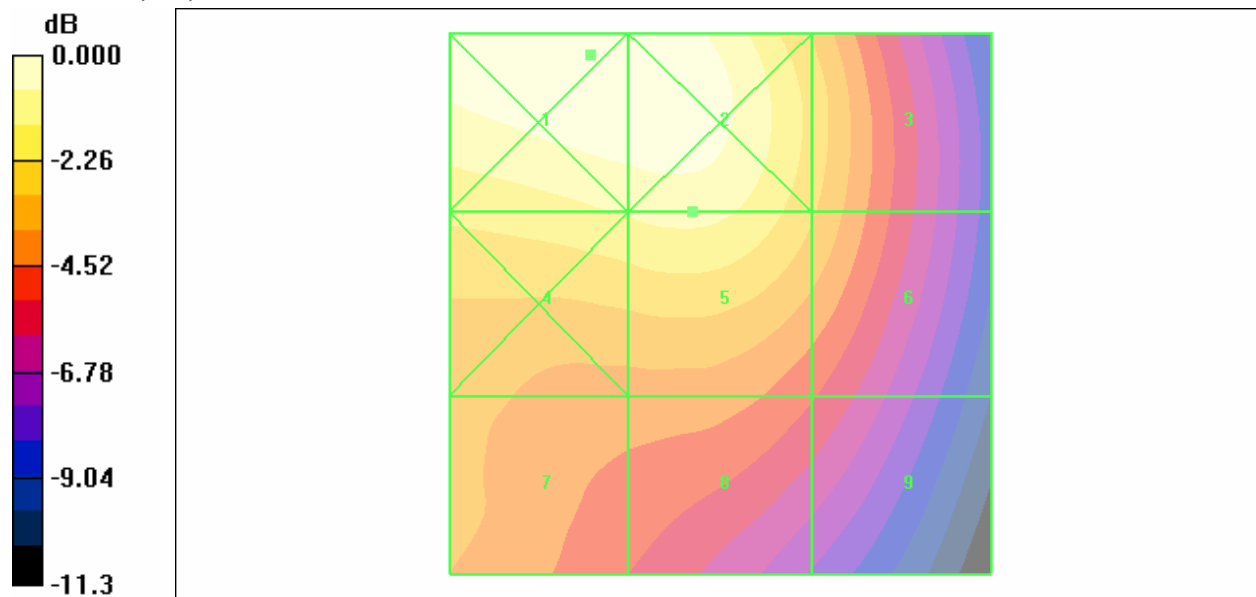
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
|----------|----------|---|--|
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 0.296 A/m

H Category: M4

Location: 12, -23, 365.6 mm



0 dB = 0.296A/m

Date/Time: 3/20/2008 9:21:11 AM

Test Laboratory: Compliance Certification Services Inc.

HAC_H_SCAN_WCDMA Band V POLLUX ULTIMATE 8502

DUT: ULTIMATE 8502; Type: POLLUX; Serial: N/A

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

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

Phantom section: H Device Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: H3DV6 - SN6163; ; Calibrated: 4/20/2007
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1027
- Measurement SW: DAS4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

H Scan - H probe tip 10mm above Device -High/Hearing Aid

Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.218 A/m

Probe Modulation Factor = 1.03

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.191 A/m; Power Drift = 0.045 dB

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

Peak H-field in A/m

| | | |
|---------------------------|---------------------------|---------------------------|
| Grid 1 0.253 M4 | Grid 2 0.252 M4 | Grid 3 0.184 M4 |
| Grid 4 0.214 M4 | Grid 5 0.218 M4 | Grid 6 0.177 M4 |
| Grid 7 0.166 M4 | Grid 8 0.158 M4 | Grid 9 0.137 M4 |

| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|---|
| 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 |

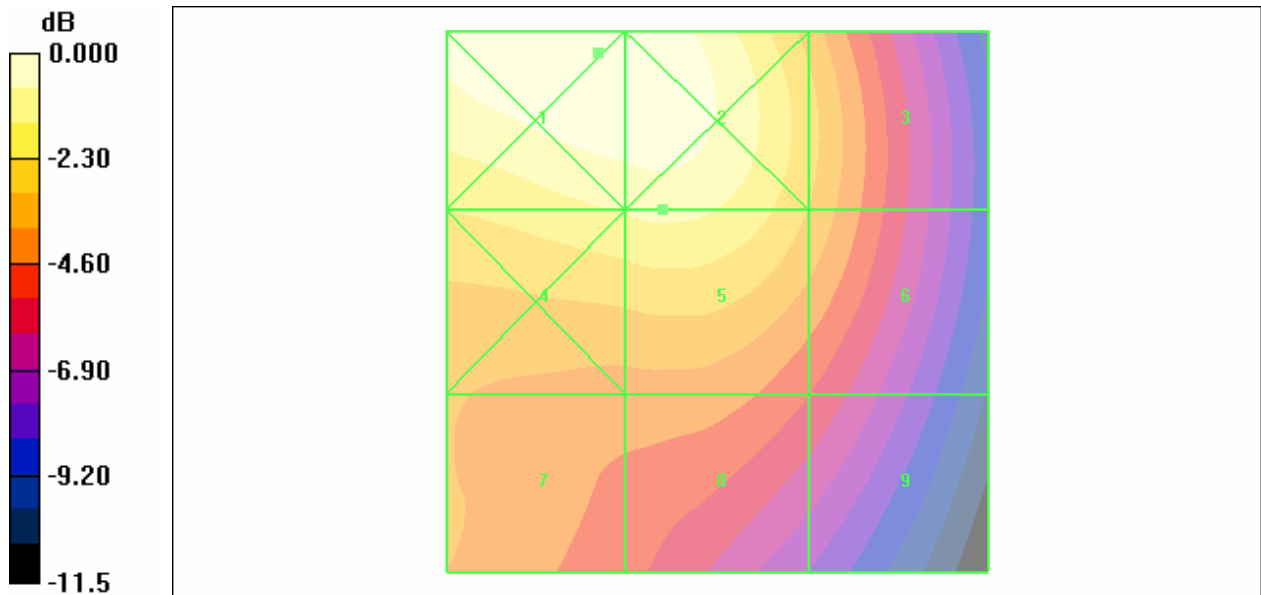
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
|----------|----------|---|--|
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 0.253 A/m

H Category: M4

Location: 11, -23, 365.6 mm



0 dB = 0.253A/m

Date/Time: 3/20/2008 9:40:22 AM

Test Laboratory: Compliance Certification Services Inc.

HAC_H_SCAN_WCDMA Band II ULTIMATE 9502 close

DUT: ULTIMATE 9502; Type: ATLAS; Serial: N/A

Communication System: WCDMA Band II; Frequency: 1852.4 MHz; Duty Cycle: 1:1

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

Phantom section: H Device Section

Measurement Standard: DAS4 (High Precision Assessment)

DAS4 Configuration:

- Probe: H3DV6 - SN6163; ; Calibrated: 4/20/2007
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1027
- Measurement SW: DAS4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

H Scan - H probe tip 10mm above Device -Low/Hearing Aid Compatibility

Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.252 A/m

Probe Modulation Factor = 1.02

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.240 A/m; Power Drift = 0.018 dB

Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Peak H-field in A/m

| | | |
|---------------------------|---------------------------|---------------------------|
| Grid 1 0.211 M3 | Grid 2 0.246 M3 | Grid 3 0.238 M3 |
| Grid 4 0.214 M3 | Grid 5 0.252 M3 | Grid 6 0.241 M3 |
| Grid 7 0.191 M3 | Grid 8 0.225 M3 | Grid 9 0.215 M3 |

| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|---|
| 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 |

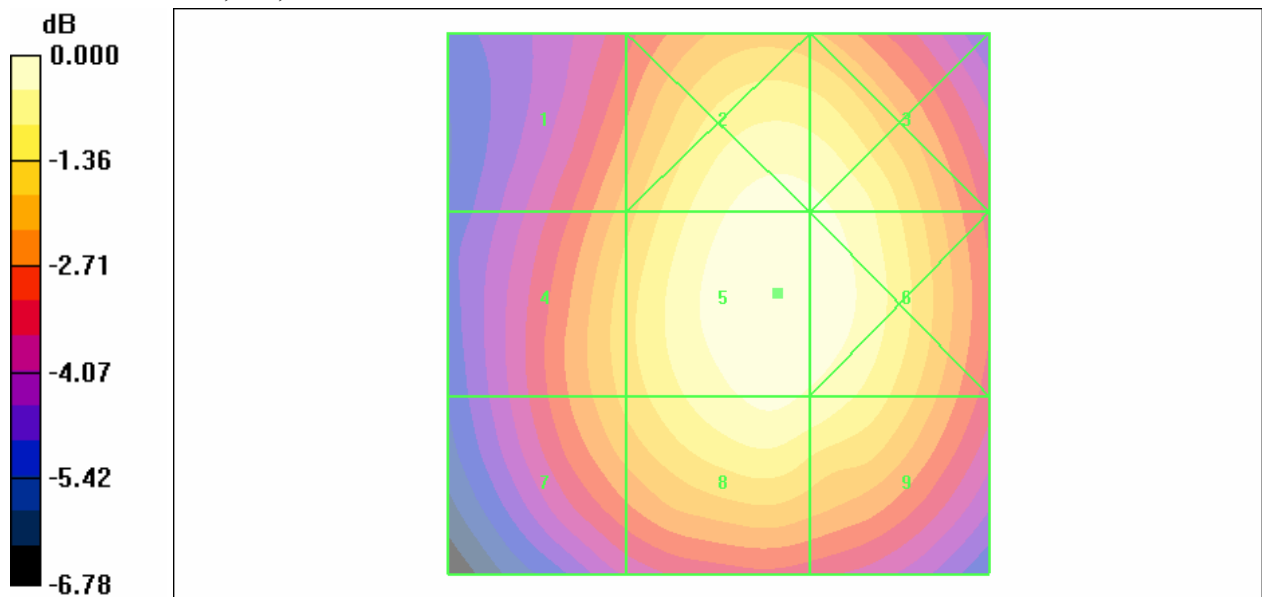
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
|----------|----------|---|--|
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 0.252 A/m

H Category: M3

Location: -3.5, -3.5, 365.6 mm



Date/Time: 3/20/2008 9:31:22 AM

Test Laboratory: Compliance Certification Services Inc.

HAC_H_SCAN_WCDMA Band II ULTIMATE 9502 close

DUT: ULTIMATE 9502; Type: ATLAS; Serial: N/A

Communication System: WCDMA Band II; 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

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: H3DV6 - SN6163; ; Calibrated: 4/20/2007
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1027
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

H Scan - H probe tip 10mm above Device -Middle/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.245 A/m

Probe Modulation Factor = 1.02

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.232 A/m; Power Drift = 0.010 dB

Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Peak H-field in A/m

| | | |
|---------------------------|---------------------------|---------------------------|
| Grid 1 0.210 M3 | Grid 2 0.240 M3 | Grid 3 0.231 M3 |
| Grid 4 0.213 M3 | Grid 5 0.245 M3 | Grid 6 0.236 M3 |
| Grid 7 0.191 M3 | Grid 8 0.223 M3 | Grid 9 0.215 M3 |

| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|---|
| 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 |

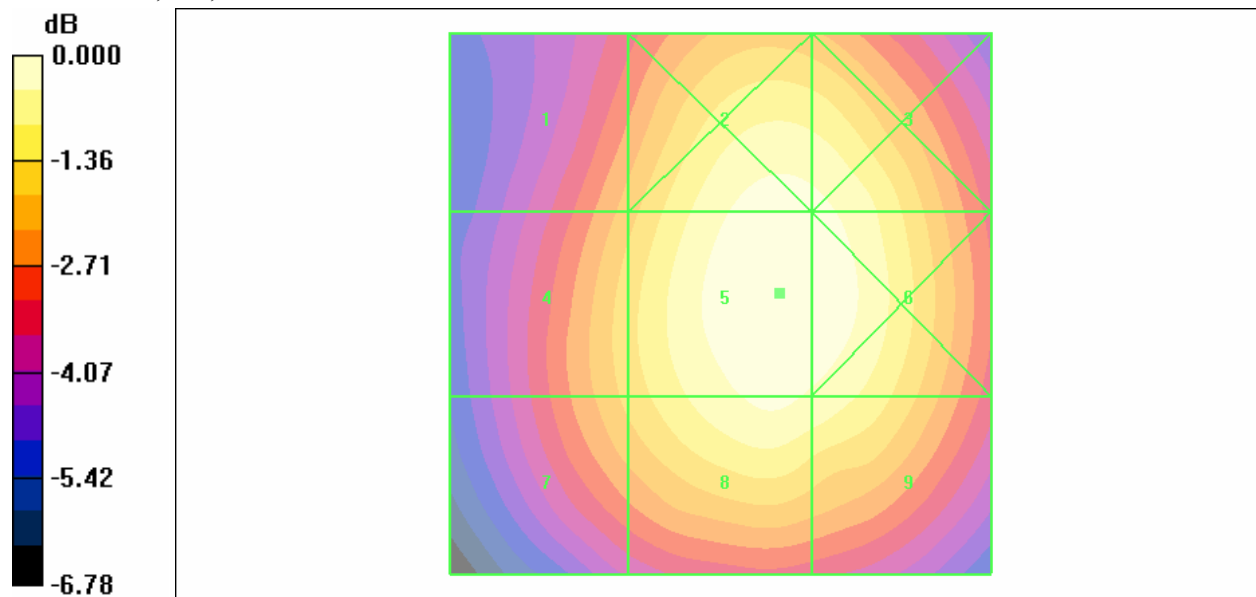
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
|----------|----------|---|--|
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 0.245 A/m

H Category: M3

Location: -3.5, -2.5, 365.6 mm



0 dB = 0.245A/m

Date/Time: 3/20/2008 9:49:25 AM

Test Laboratory: Compliance Certification Services Inc.

HAC_H_SCAN_WCDMA Band II ULTIMATE 9502 close

DUT: ULTIMATE 9502; Type: ATLAS; Serial: N/A

Communication System: WCDMA Band II; Frequency: 1907.6 MHz; Duty Cycle: 1:1

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

Phantom section: H Device Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: H3DV6 - SN6163; ; Calibrated: 4/20/2007
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: 1027
- Measurement SW: DAS4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

H Scan - H probe tip 10mm above Device -High/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.234 A/m

Probe Modulation Factor = 1.02

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.210 A/m; Power Drift = 0.012 dB

Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Peak H-field in A/m

| | | |
|---------------------------|---------------------------|---------------------------|
| Grid 1 0.203 M4 | Grid 2 0.228 M3 | Grid 3 0.217 M3 |
| Grid 4 0.205 M4 | Grid 5 0.234 M3 | Grid 6 0.221 M3 |
| Grid 7 0.186 M4 | Grid 8 0.214 M3 | Grid 9 0.204 M3 |

| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|---|
| 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 |

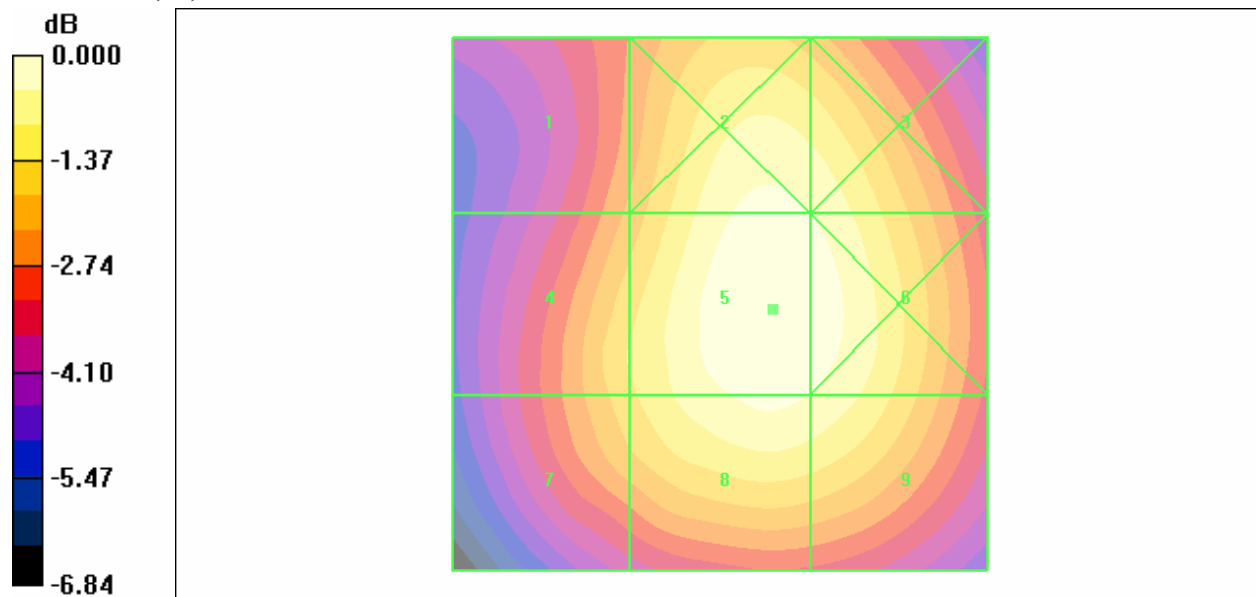
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
|----------|----------|---|--|
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 0.234 A/m

H Category: M3

Location: -2.5, -2, 365.6 mm



0 dB = 0.234A/m