

HAC Annex Report

Project Number: 3044696

Report Number: 3044696EMC33 Revision Level: 1

Client: Intermec Technologies Corporation

Equipment Under Test: Mobile Computer with AE37 AC Adapter

Model Name: CN51077X1200001

Model Number: 1015CP01

Hardware Version: P2

FCC ID: EHA-1015CP01SX1

**Applicable Standards: ANSI C63.19-2011
FCC Rule Parts: §20.19(b), §6.3(v), §7.3(v)**

Report issued on: 20 June 2014

Remarks:

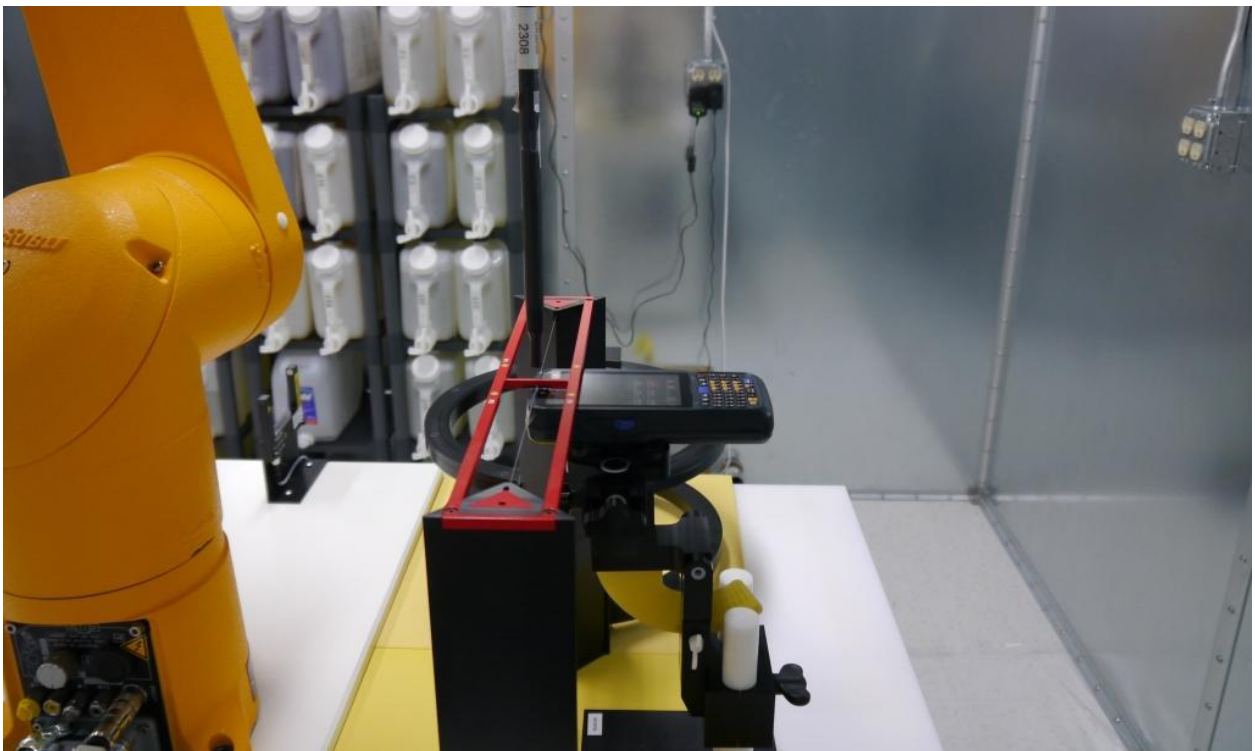
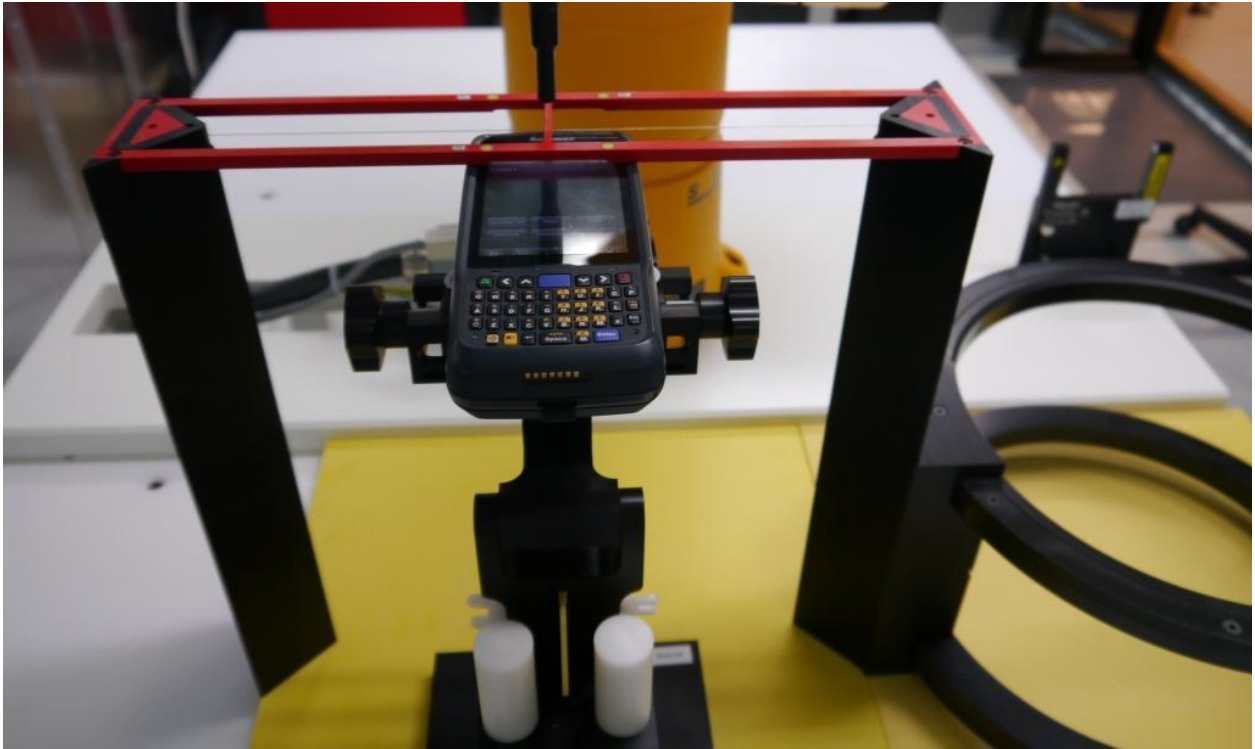
This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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1 SETUP PHOTOGRAPHS



3 SYSTEM VALIDATION REPORTS

Date/Time: 10/11/2013 9:42:58 AM

Test Laboratory: SGS North America

HAC RF E-Field Validation 835MHz 11Oct2013

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1060

Communication System: CW; Communication System Band: ITD835 (835.0 MHz); Frequency: 835 MHz; Communication System PAR: 0 dB; PMF: 1
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2308; ConvF(1, 1, 1); Calibrated: 12/7/2012;
- Sensor-Surface: (Fix Surface), z = 9.7
- Electronics: DAE4 Sn1287; Calibrated: 10/4/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1163
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

Dipole E-Field measurement (E-field scan for ANSI C63.19-2011 compliance)/E Scan - measurement distance from the probe sensor center to CD835 =15mm/Hearing Aid Compatibility Test at 15mm distance (41x361x1): Measurement grid: dx=5mm, dy=5mm
 Device Reference Point: 0, 0, -6.3 mm
 Reference Value = 114.2 V/m; Power Drift = -0.01 dB
 PMR not calibrated. PMF = 1.000 is applied.
 E-field emissions = 97.79 V/m
Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

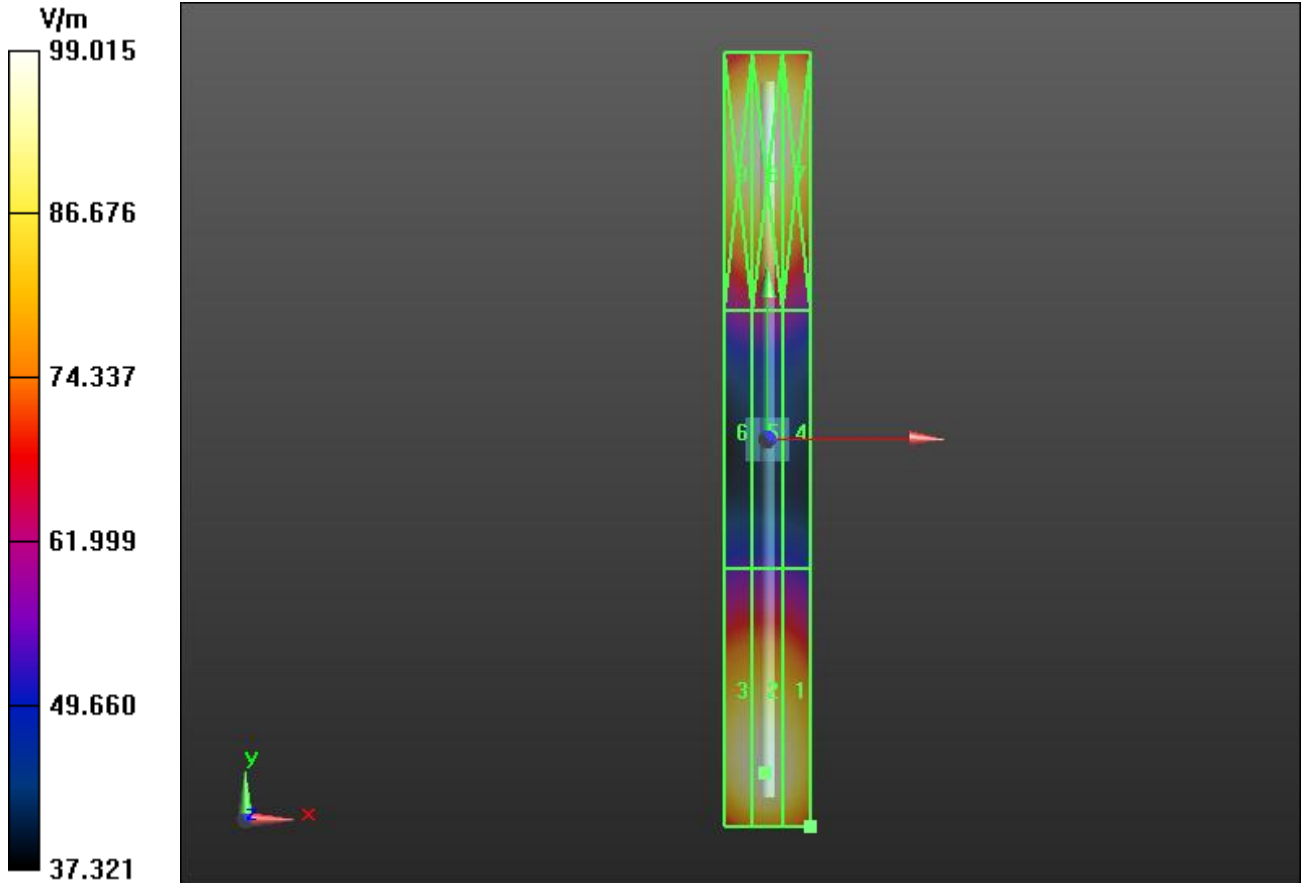
Grid 1 M4 95.39 V/m	Grid 2 M4 97.79 V/m	Grid 3 M4 96.73 V/m
Grid 4 M4 60.44 V/m	Grid 5 M4 61.93 V/m	Grid 6 M4 61.49 V/m
Grid 7 M4 97.16 V/m	Grid 8 M4 99.01 V/m	Grid 9 M4 98.00 V/m

Cursor:

Total = 67.50 V/m

E Category: M4

Location: 10, -90, 9.7 mm



Date/Time: 10/11/2013 8:43:03 AM

Test Laboratory: SGS North America

HAC RF E-Field Validation 1880 MHz 11Oct2013

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1047

Communication System: CW; Communication System Band: CD1880 (1880.0 MHz); Frequency: 1880 MHz; Communication System PAR: 0 dB; PMF: 1
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2308; ConvF(1, 1, 1); Calibrated: 12/7/2012;
- Sensor-Surface: (Fix Surface), z = 9.7
- Electronics: DAE4 Sn1287; Calibrated: 10/4/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1163
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Dipole E-Field measurement (E-field scan for ANSI C63.19-2011 compliance)/E Scan - measurement distance from the probe sensor center to CD1880 = 15mm/Hearing Aid Compatibility Test at 15mm distance (41x181x1): Measurement grid: dx=5mm, dy=5mm
 Device Reference Point: 0, 0, -6.3 mm
 Reference Value = 127.6 V/m; Power Drift = -0.01 dB
 PMR not calibrated. PMF = 1.000 is applied.
 E-field emissions = 83.15 V/m
Near-field category: M3 (AWF 0 dB)

PMF scaled E-field

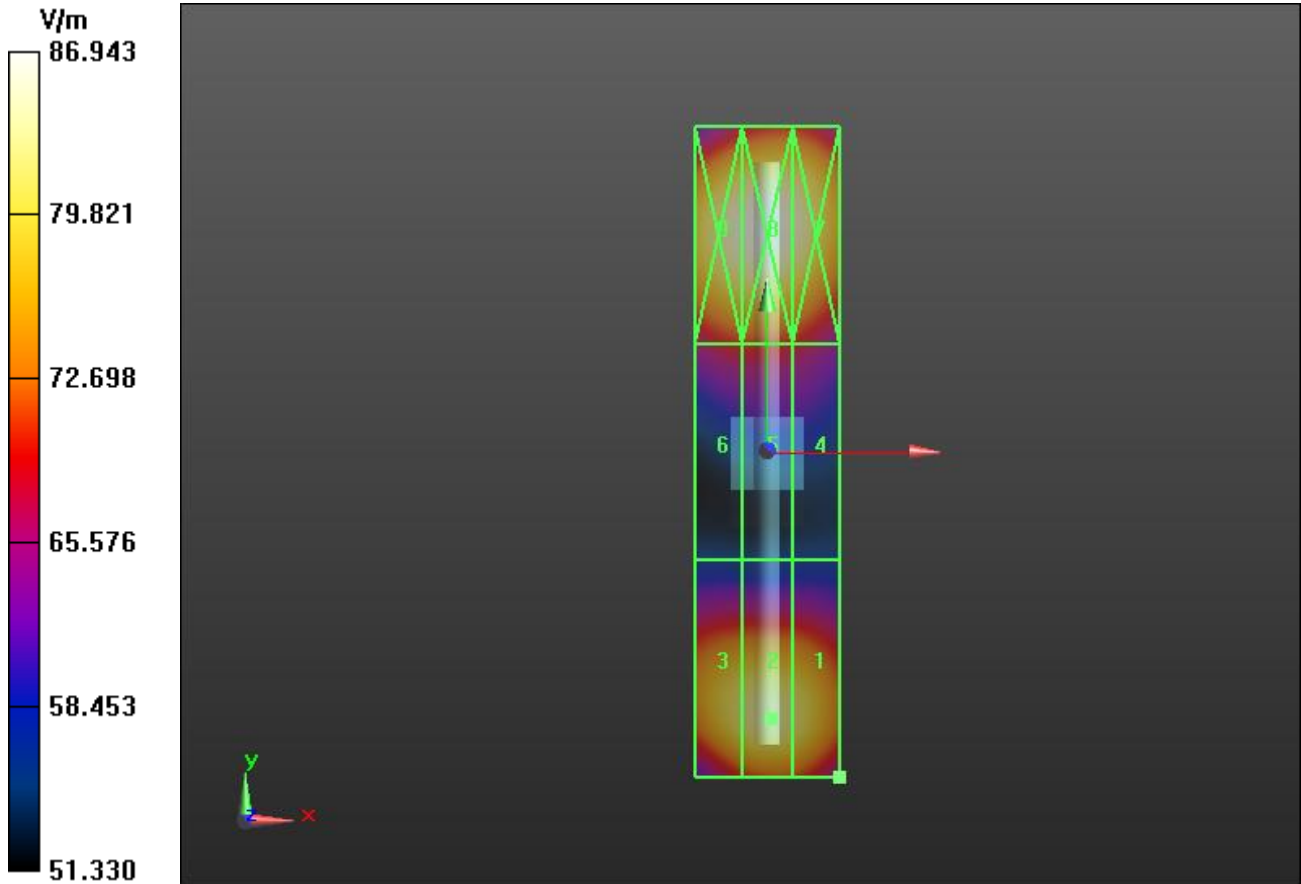
Grid 1 M3 82.00 V/m	Grid 2 M3 83.14 V/m	Grid 3 M3 81.82 V/m
Grid 4 M3 69.18 V/m	Grid 5 M3 70.63 V/m	Grid 6 M3 70.20 V/m
Grid 7 M3 85.05 V/m	Grid 8 M3 86.94 V/m	Grid 9 M3 85.98 V/m

Cursor:

Total = 63.58 V/m

E Category: M3

Location: 10, -45, 9.7 mm



Date/Time: 10/14/2013 9:08:54 AM

Test Laboratory: SGS North America

HAC RF E-Field Validation 835MHz 14Oct2013

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1060

Communication System: CW; Communication System Band: ITD835 (835.0 MHz); Frequency: 835 MHz; Communication System PAR: 0 dB; PMF: 1
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2308; ConvF(1, 1, 1); Calibrated: 12/7/2012;
- Sensor-Surface: (Fix Surface), z = 9.7
- Electronics: DAE4 Sn1287; Calibrated: 10/4/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1163
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Dipole E-Field measurement (E-field scan for ANSI C63.19-2011 compliance)/E Scan - measurement distance from the probe sensor center to CD835 =15mm/Hearing Aid Compatibility Test at 15mm distance (41x361x1): Measurement grid: dx=5mm, dy=5mm
 Device Reference Point: 0, 0, -6.3 mm
 Reference Value = 116.4 V/m; Power Drift = -0.02 dB
 PMR not calibrated. PMF = 1.000 is applied.
 E-field emissions = 98.91 V/m
Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

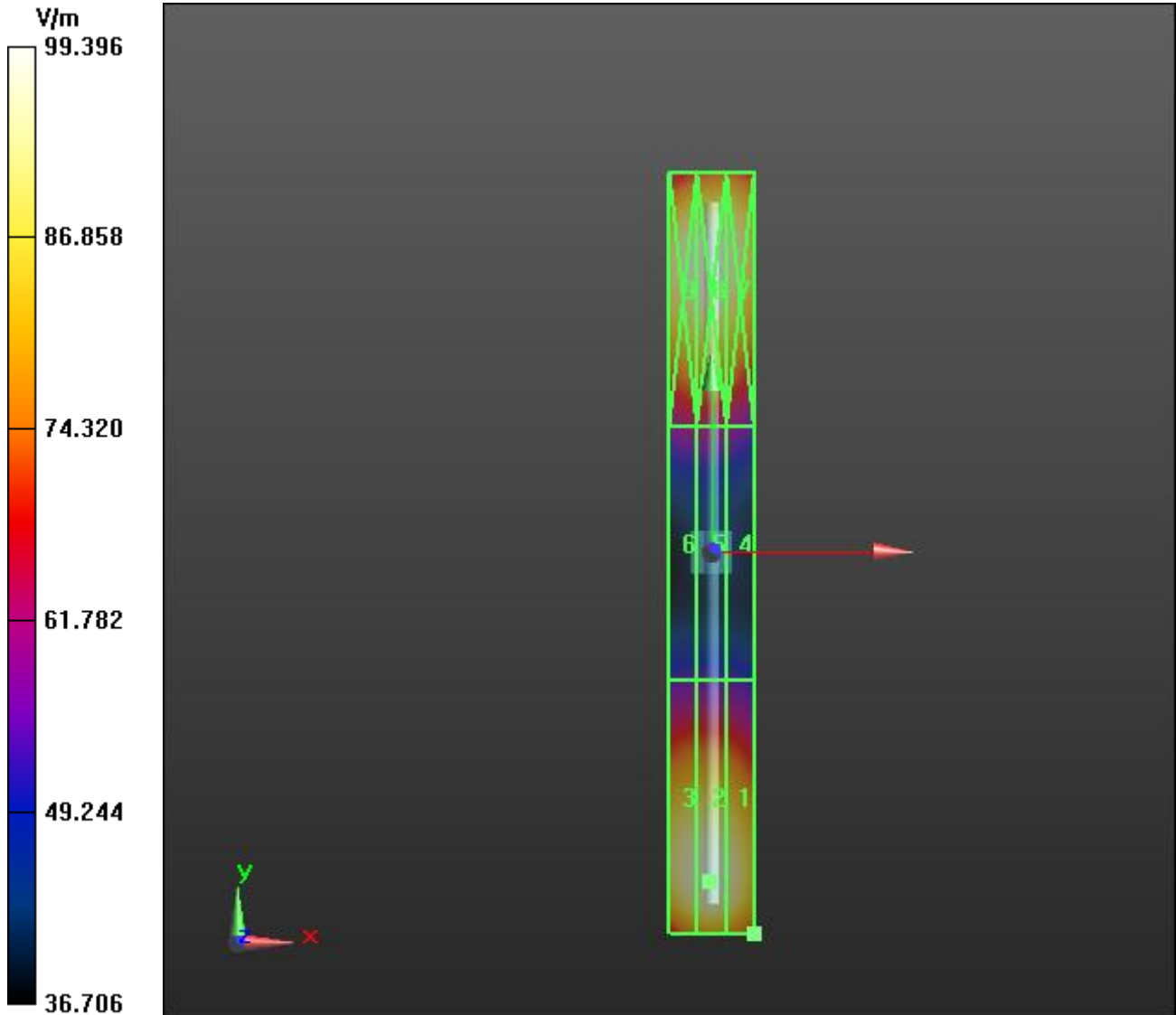
Grid 1 M4 96.36 V/m	Grid 2 M4 98.91 V/m	Grid 3 M4 97.72 V/m
Grid 4 M4 61.10 V/m	Grid 5 M4 63.14 V/m	Grid 6 M4 62.53 V/m
Grid 7 M4 97.11 V/m	Grid 8 M4 99.40 V/m	Grid 9 M4 98.71 V/m

Cursor:

Total = 68.48 V/m

E Category: M4

Location: 10, -90, 9.7 mm



Date/Time: 10/15/2013 1:13:44 PM

Test Laboratory: SGS North America

HAC RF E-Field Validation 835MHz 15Oct2013

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1060

Communication System: CW; Communication System Band: ITD835 (835.0 MHz); Frequency: 835 MHz; Communication System PAR: 0 dB; PMF: 1
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2308; ConvF(1, 1, 1); Calibrated: 12/7/2012;
- Sensor-Surface: (Fix Surface), z = 9.7
- Electronics: DAE4 Sn1287; Calibrated: 10/4/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1163
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Dipole E-Field measurement (E-field scan for ANSI C63.19-2011 compliance)/E Scan - measurement distance from the probe sensor center to CD835 = 15mm/Hearing Aid Compatibility Test at 15mm distance (41x361x1): Measurement grid: dx=5mm, dy=5mm
 Device Reference Point: 0, 0, -6.3 mm
 Reference Value = 109.6 V/m; Power Drift = -0.05 dB
 PMR not calibrated. PMF = 1.000 is applied.
 E-field emissions = 93.43 V/m
Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

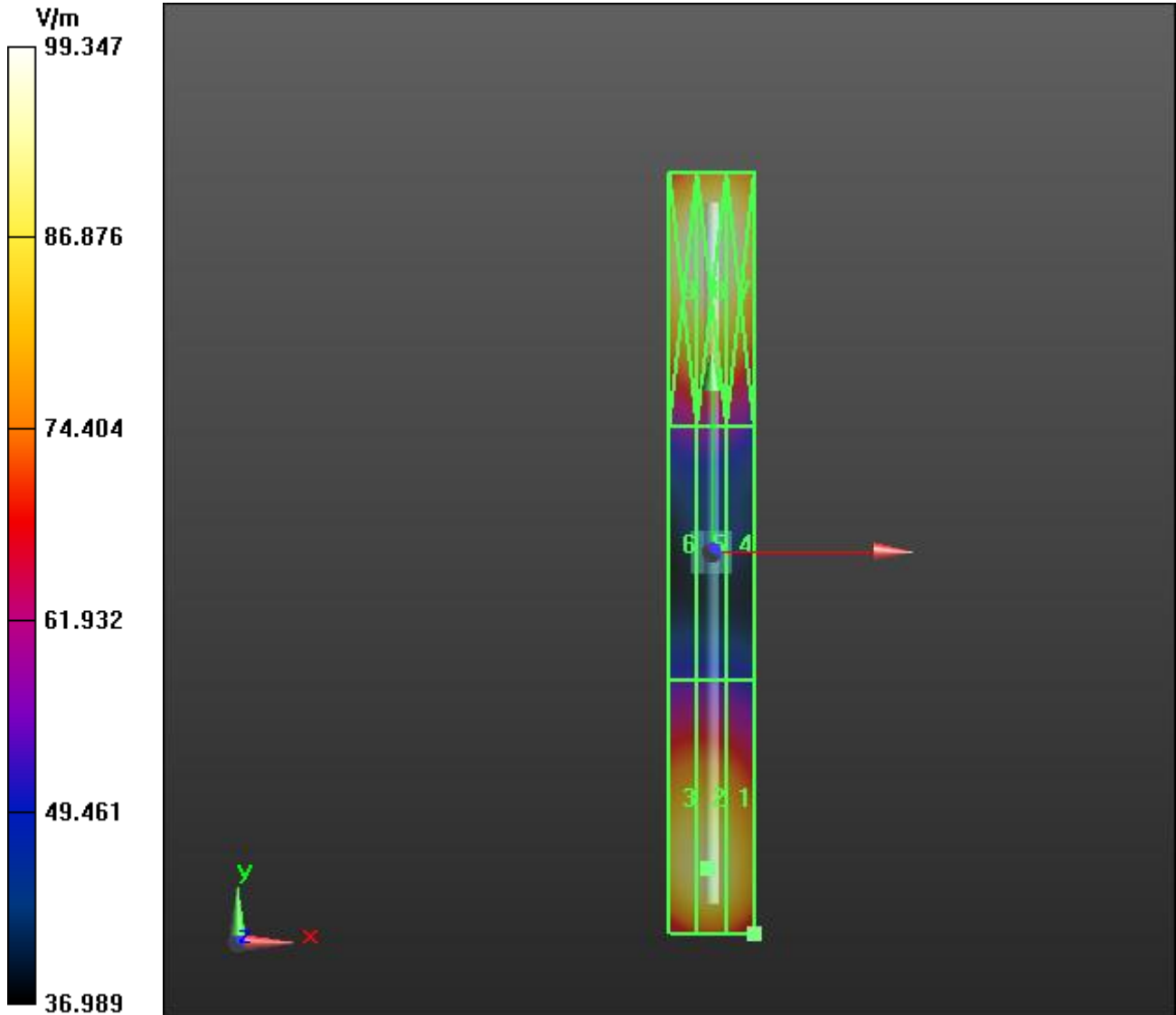
Grid 1 M4 90.47 V/m	Grid 2 M4 93.43 V/m	Grid 3 M4 92.85 V/m
Grid 4 M4 58.40 V/m	Grid 5 M4 59.77 V/m	Grid 6 M4 59.65 V/m
Grid 7 M4 97.41 V/m	Grid 8 M4 99.35 V/m	Grid 9 M4 98.68 V/m

Cursor:

Total = 62.51 V/m

E Category: M4

Location: 10, -90, 9.7 mm



Date/Time: 10/15/2013 1:45:36 PM

Test Laboratory: SGS North America

HAC RF E-Field Validation 1880MHz 15Oct2013

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1047

Communication System: CW; Communication System Band: CD1880 (1880.0 MHz); Frequency: 1880 MHz; Communication System PAR: 0 dB; PMF: 1
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2308; ConvF(1, 1, 1); Calibrated: 12/7/2012;
- Sensor-Surface: (Fix Surface), z = 9.7
- Electronics: DAE4 Sn1287; Calibrated: 10/4/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1163
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

Dipole E-Field measurement (E-field scan for ANSI C63.19-2011 compliance)/E Scan - measurement distance from the probe sensor center to CD1880 =15mm/Hearing Aid Compatibility Test at 15mm distance (41x181x1): Measurement grid: dx=5mm, dy=5mm
 Device Reference Point: 0, 0, -6.3 mm
 Reference Value = 148.1 V/m; Power Drift = 0.08 dB
 PMR not calibrated. PMF = 1.000 is applied.
 E-field emissions = 93.45 V/m
Near-field category: M3 (AWF 0 dB)

PMF scaled E-field

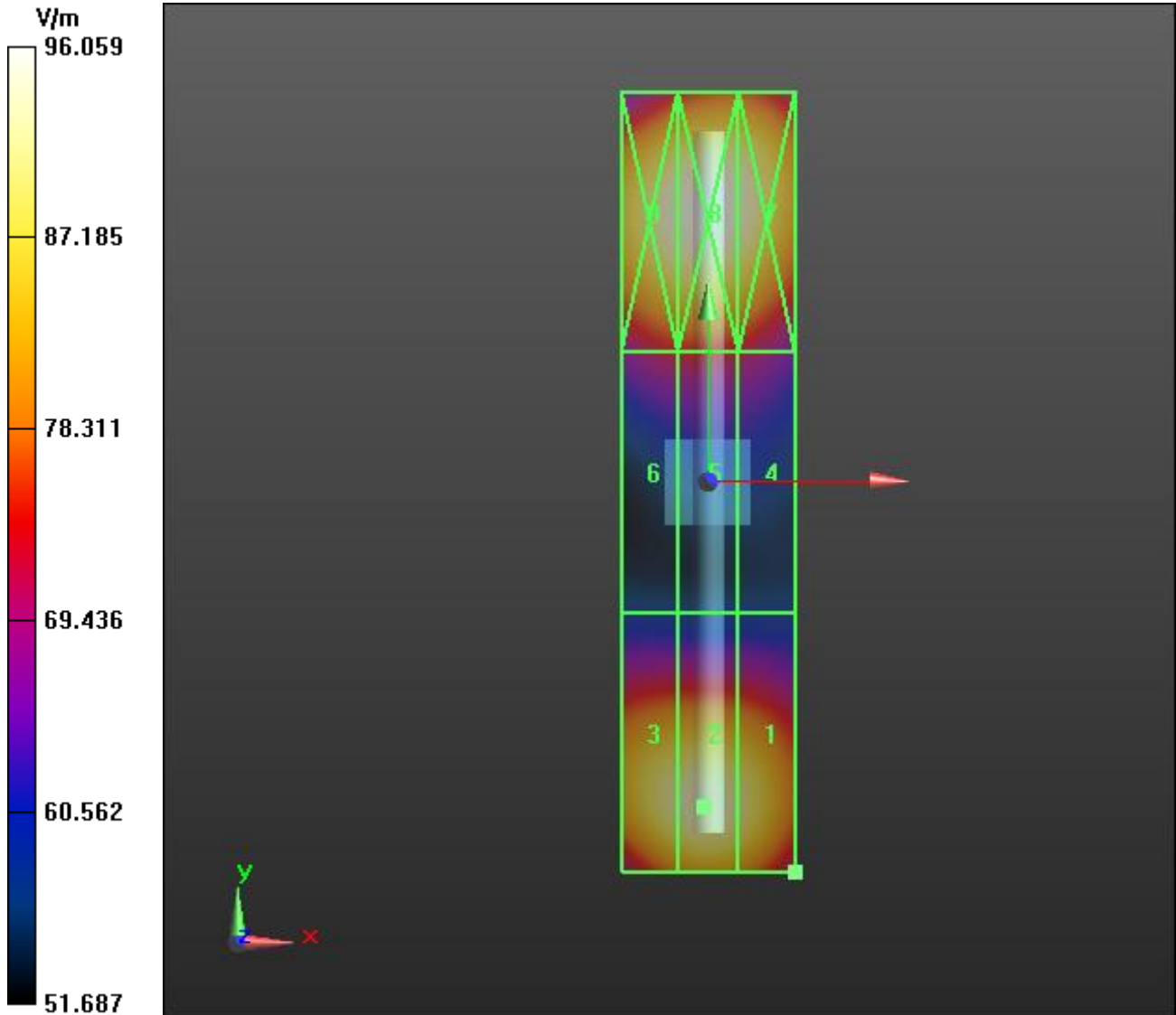
Grid 1 M3 90.96 V/m	Grid 2 M3 93.45 V/m	Grid 3 M3 92.01 V/m
Grid 4 M3 72.48 V/m	Grid 5 M3 73.92 V/m	Grid 6 M3 73.54 V/m
Grid 7 M3 94.14 V/m	Grid 8 M3 96.06 V/m	Grid 9 M3 94.67 V/m

Cursor:

Total = 69.05 V/m

E Category: M3

Location: 10, -45, 9.7 mm



5 HAC RF EMISSIONS TEST PLOTS

Plot E1

Date/Time: 10/11/2013 10:16:20 AM

Test Laboratory: SGS North America

E1

DUT: Intermec Catalina Handheld PC; Type: NA; Serial: NA

Communication System: Generic GSM; Communication System Band: GSM 850 (824.0 - 849.0 MHz);
 Frequency: 824.2 MHz; Communication System PAR: 9.191 dB; PMF: 2.88104
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2308; ConvF(1, 1, 1); Calibrated: 12/7/2012;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn1287; Calibrated: 10/4/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1163
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

Device E-Field measurement (E-field scan for ANSI C63.19-2007 & -2011 compliance)/E Scan - ER3D: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
 Reference Value = 80.77 V/m; Power Drift = 0.00 dB
 PMR not calibrated. PMF = 2.881 is applied.
 E-field emissions = 189.2 V/m
Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 167.3 V/m	Grid 2 M4 181.8 V/m	Grid 3 M4 176.7 V/m
Grid 4 M4 173.6 V/m	Grid 5 M4 189.2 V/m	Grid 6 M4 185.9 V/m
Grid 7 M4 178.3 V/m	Grid 8 M4 189.5 V/m	Grid 9 M4 186.0 V/m

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 = 140.4 V/m

E Category: M4

Location: 25, -25, 8.7 mm

Plot H1

Date/Time: 10/11/2013 10:27:51 AM

Test Laboratory: SGS North America

DUT: Intermec Catalina Handheld PC; Type: NA; Serial: NA

Communication System: Generic GSM; Communication System Band: GSM 850 (824.0 - 849.0 MHz);
 Frequency: 824.2 MHz; Communication System PAR: 9.191 dB; PMF: 2.88104
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6145; ; Calibrated: 12/7/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn1287; Calibrated: 10/4/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1163
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

Device H-Field measurement with H3DV6 probe (H-field scan for ANSI C63.19-2007 compliance)/H Scan - H3DV6: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
 Reference Value = 0.1330 A/m; Power Drift = 0.03 dB
 PMR not calibrated. PMF = 2.881 is applied.
 H-field emissions = 0.3141 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.348 A/m	Grid 2 M4 0.319 A/m	Grid 3 M4 0.282 A/m
Grid 4 M4 0.313 A/m	Grid 5 M4 0.314 A/m	Grid 6 M4 0.282 A/m
Grid 7 M4 0.289 A/m	Grid 8 M4 0.293 A/m	Grid 9 M4 0.247 A/m

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

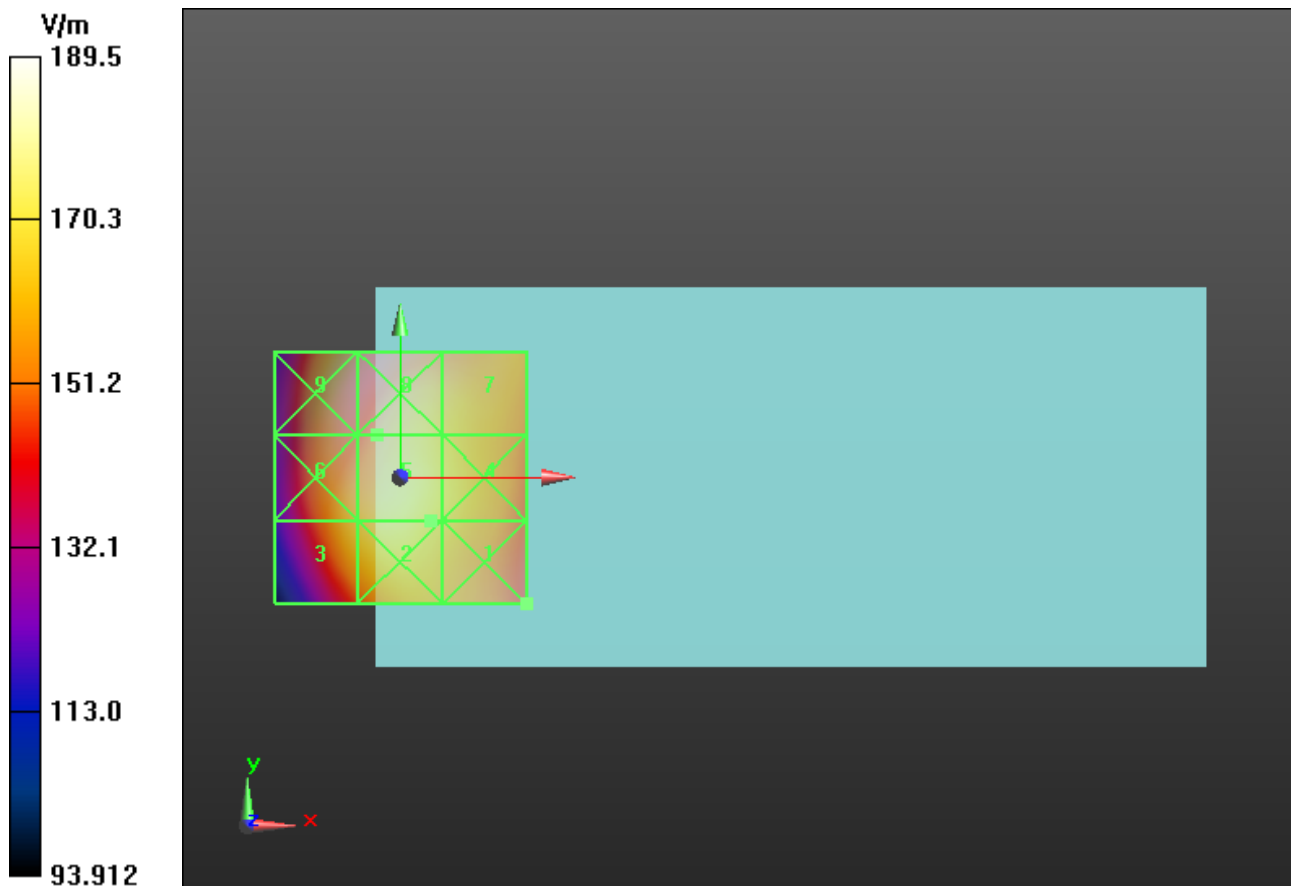
Category	AWF (dB)	Limits for E-Field Emissions (V/m) < 960MHz	Limits for H-Field Emissions (A/m) < 960 MHz
M1	0	631 - 1122	1.91 - 3.39
	-5	473.2 - 841.4	1.43 - 2.54
M2	0	354.8 - 631	1.07 - 1.91
	-5	266.1 - 473.2	0.8 - 1.43
M3	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M4	0	<199.5	<0.6
	-5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

Cursor:

Total = 0.3483 A/m

H Category: M4

Location: 25, -25, 8.7 mm



Plot E2

Date/Time: 10/11/2013 10:47:41 AM

Test Laboratory: SGS North America

E2

DUT: Intermec Catalina Handheld PC; Type: NA; Serial: NA

Communication System: Generic GSM; Communication System Band: GSM 850 (824.0 - 849.0 MHz);
 Frequency: 836.6 MHz; Communication System PAR: 9.191 dB; PMF: 2.88104
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2308; ConvF(1, 1, 1); Calibrated: 12/7/2012;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn1287; Calibrated: 10/4/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1163
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

Device E-Field measurement (E-field scan for ANSI C63.19-2007 & -2011 compliance)/E Scan - ER3D: 15 mm from Probe Center to the Device/Hearing Aid

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

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 90.75 V/m; Power Drift = 0.05 dB

PMR not calibrated. PMF = 2.881 is applied.

E-field emissions = 215.2 V/m

Near-field category: M3 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 177.0 V/m	Grid 2 M4 198.8 V/m	Grid 3 M4 195.1 V/m
Grid 4 M4 192.1 V/m	Grid 5 M3 215.2 V/m	Grid 6 M3 212.7 V/m
Grid 7 M3 205.6 V/m	Grid 8 M3 218.4 V/m	Grid 9 M3 214.4 V/m

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 = 136.0 V/m

E Category: M4

Location: 25, -25, 8.7 mm

Plot H2

Date/Time: 10/11/2013 10:35:05 AM

Test Laboratory: SGS North America

DUT: Intermec Catalina Handheld PC; Type: NA; Serial: NA

Communication System: Generic GSM; Communication System Band: GSM 850 (824.0 - 849.0 MHz);
 Frequency: 836.6 MHz; Communication System PAR: 9.191 dB; PMF: 2.88104
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6145; ; Calibrated: 12/7/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn1287; Calibrated: 10/4/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1163
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

Device H-Field measurement with H3DV6 probe (H-field scan for ANSI C63.19-2007 compliance)/H Scan - H3DV6: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
 Reference Value = 0.1500 A/m; Power Drift = -0.10 dB
 PMR not calibrated. PMF = 2.881 is applied.
 H-field emissions = 0.3336 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.327 A/m	Grid 2 M4 0.332 A/m	Grid 3 M4 0.306 A/m
Grid 4 M4 0.327 A/m	Grid 5 M4 0.334 A/m	Grid 6 M4 0.306 A/m
Grid 7 M4 0.321 A/m	Grid 8 M4 0.327 A/m	Grid 9 M4 0.272 A/m

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

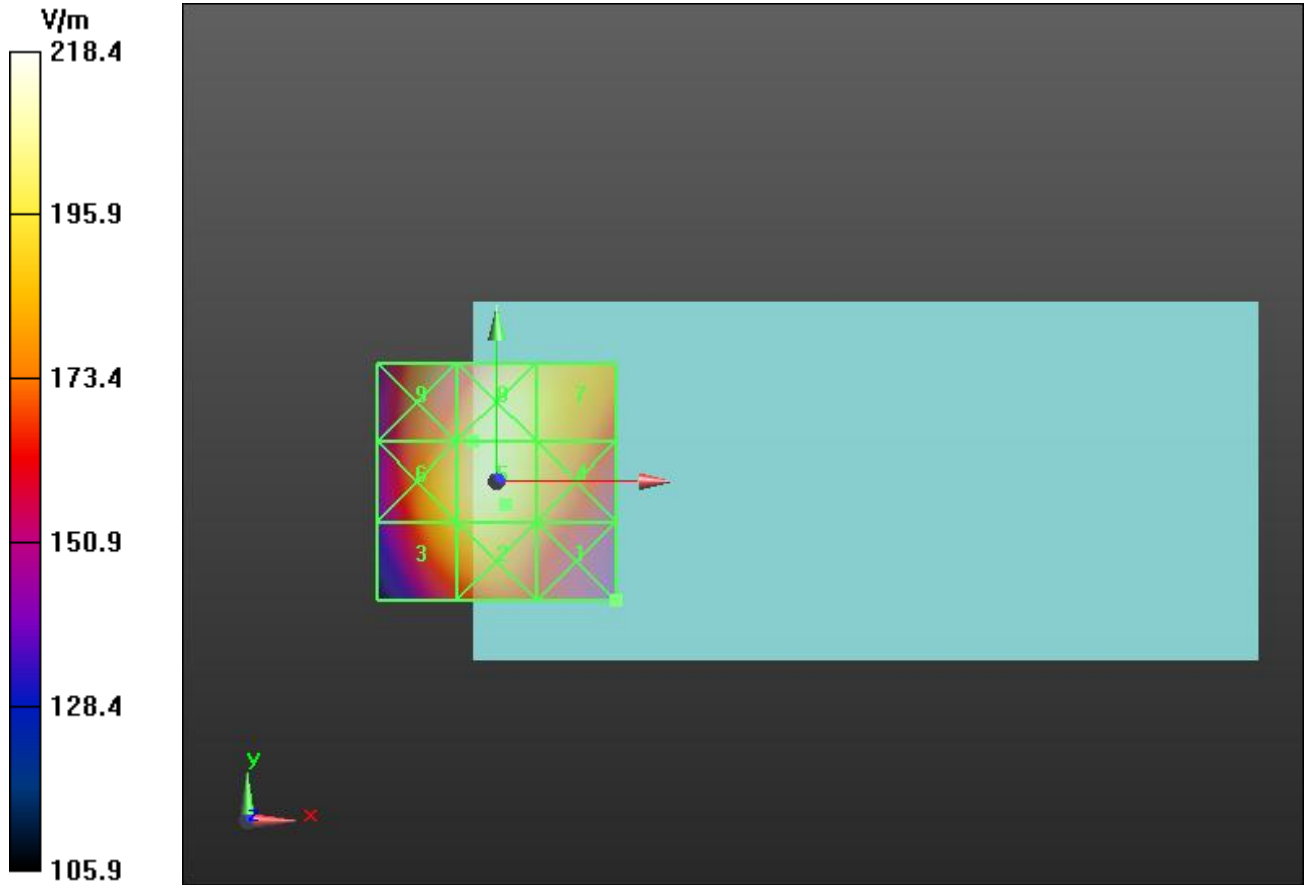
Category	AWF (dB)	Limits for E-Field Emissions (V/m) < 960MHz	Limits for H-Field Emissions (A/m) < 960 MHz
M1	0	631 - 1122	1.91 - 3.39
	-5	473.2 - 841.4	1.43 - 2.54
M2	0	354.8 - 631	1.07 - 1.91
	-5	266.1 - 473.2	0.8 - 1.43
M3	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M4	0	<199.5	<0.6
	-5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

Cursor:

Total = 0.3152 A/m

H Category: M4

Location: 25, -25, 8.7 mm



Plot E3

Date/Time: 10/11/2013 10:54:18 AM

Test Laboratory: SGS North America

E3

DUT: Intermec Catalina Handheld PC; Type: NA; Serial: NA

Communication System: Generic GSM; Communication System Band: GSM 850 (824.0 - 849.0 MHz);
 Frequency: 848.6 MHz; Communication System PAR: 9.191 dB; PMF: 2.88104
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2308; ConvF(1, 1, 1); Calibrated: 12/7/2012;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn1287; Calibrated: 10/4/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1163
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

Device E-Field measurement (E-field scan for ANSI C63.19-2007 & -2011 compliance)/E Scan - ER3D: 15 mm from Probe Center to the Device/Hearing Aid

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

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 71.75 V/m; Power Drift = 0.02 dB

PMR not calibrated. PMF = 2.881 is applied.

E-field emissions = 175.5 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 130.6 V/m	Grid 2 M4 146.7 V/m	Grid 3 M4 144.4 V/m
Grid 4 M4 156.3 V/m	Grid 5 M4 175.5 V/m	Grid 6 M4 173.3 V/m
Grid 7 M4 177.8 V/m	Grid 8 M4 186.3 V/m	Grid 9 M4 181.2 V/m

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 = 90.01 V/m

E Category: M4

Location: 25, -25, 8.7 mm

Plot H3

Date/Time: 10/11/2013 10:35:05 AM

Test Laboratory: SGS North America

DUT: Intermec Catalina Handheld PC; Type: NA; Serial: NA

Communication System: Generic GSM; Communication System Band: GSM 850 (824.0 - 849.0 MHz);
 Frequency: 836.6 MHz; Communication System PAR: 9.191 dB; PMF: 2.88104
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6145; ; Calibrated: 12/7/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn1287; Calibrated: 10/4/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1163
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

Device H-Field measurement with H3DV6 probe (H-field scan for ANSI C63.19-2007 compliance)/H Scan - H3DV6: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
 Reference Value = 0.1500 A/m; Power Drift = -0.10 dB
 PMR not calibrated. PMF = 2.881 is applied.
 H-field emissions = 0.3336 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.327 A/m	Grid 2 M4 0.332 A/m	Grid 3 M4 0.306 A/m
Grid 4 M4 0.327 A/m	Grid 5 M4 0.334 A/m	Grid 6 M4 0.306 A/m
Grid 7 M4 0.321 A/m	Grid 8 M4 0.327 A/m	Grid 9 M4 0.272 A/m

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

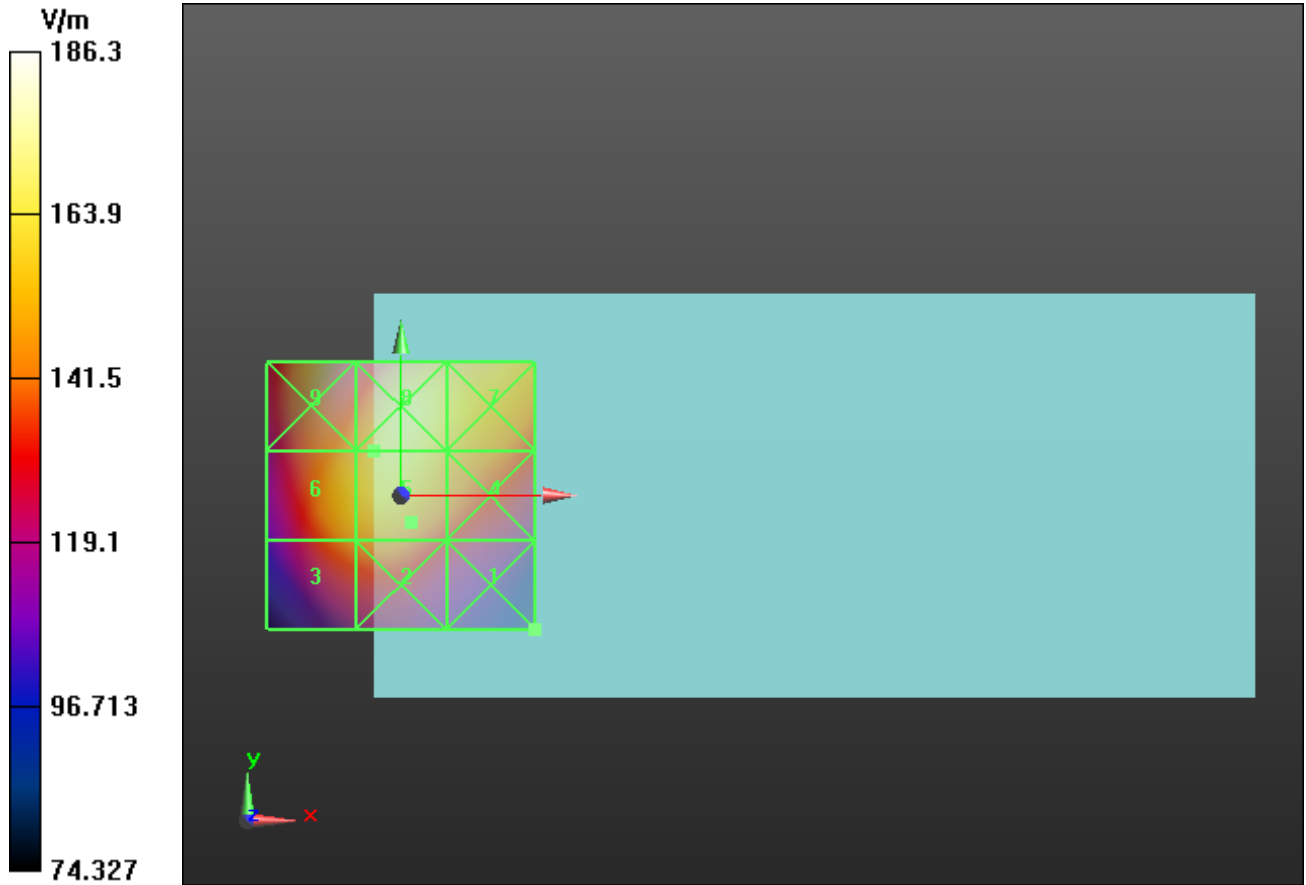
Category	AWF (dB)	Limits for E-Field Emissions (V/m) < 960MHz	Limits for H-Field Emissions (A/m) < 960 MHz
M1	0	631 - 1122	1.91 - 3.39
	-5	473.2 - 841.4	1.43 - 2.54
M2	0	354.8 - 631	1.07 - 1.91
	-5	266.1 - 473.2	0.8 - 1.43
M3	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M4	0	<199.5	<0.6
	-5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

Cursor:

Total = 0.3152 A/m

H Category: M4

Location: 25, -25, 8.7 mm



Plot E4

Date/Time: 10/14/2013 9:58:22 AM

Test Laboratory: SGS North America

E4

DUT: Intermec Catalina Handheld PC; Type: NA; Serial: NA

Communication System: UMTS-FDD (WCDMA); Communication System Band: Band 5, UTRA/FDD (824.0 - 849.0 MHz); Frequency: 826.4 MHz; Communication System PAR: 3 dB; PMF: 1
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2308; ConvF(1, 1, 1); Calibrated: 12/7/2012;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn1287; Calibrated: 10/4/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1163
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

Device E-Field measurement (E-field scan for ANSI C63.19-2007 & -2011 compliance)/E Scan - ER3D: 15 mm from Probe Center to the Device/Hearing Aid

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

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 99.22 V/m; Power Drift = -0.08 dB

PMR calibrated. Calibrated PMF = 1.000 is applied.

E-field emissions = 80.73 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 68.28 V/m	Grid 2 M4 74.95 V/m	Grid 3 M4 73.08 V/m
Grid 4 M4 73.49 V/m	Grid 5 M4 80.73 V/m	Grid 6 M4 79.21 V/m
Grid 7 M4 77.87 V/m	Grid 8 M4 81.69 V/m	Grid 9 M4 79.84 V/m

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 = 54.70 V/m

E Category: M4

Location: 25, -25, 8.7 mm

Plot H4

Date/Time: 10/14/2013 9:49:44 AM

Test Laboratory: SGS North America

DUT: Intermec Catalina Handheld PC; Type: NA; Serial: NA

Communication System: UMTS-FDD (WCDMA); Communication System Band: Band 5, UTRA/FDD (824.0 - 849.0 MHz); Frequency: 826.4 MHz; Communication System PAR: 9.191 dB; PMF: 2.88104
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6145; ; Calibrated: 12/7/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn1287; Calibrated: 10/4/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1163
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

Device H-Field measurement with H3DV6 probe (H-field scan for ANSI C63.19-2007 compliance)/H Scan - H3DV6: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
 Reference Value = 0.1710 A/m; Power Drift = -0.27 dB
 PMR not calibrated. PMF = 2.881 is applied.
 H-field emissions = 0.3875 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.425 A/m	Grid 2 M4 0.391 A/m	Grid 3 M4 0.353 A/m
Grid 4 M4 0.383 A/m	Grid 5 M4 0.388 A/m	Grid 6 M4 0.352 A/m
Grid 7 M4 0.358 A/m	Grid 8 M4 0.364 A/m	Grid 9 M4 0.305 A/m

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

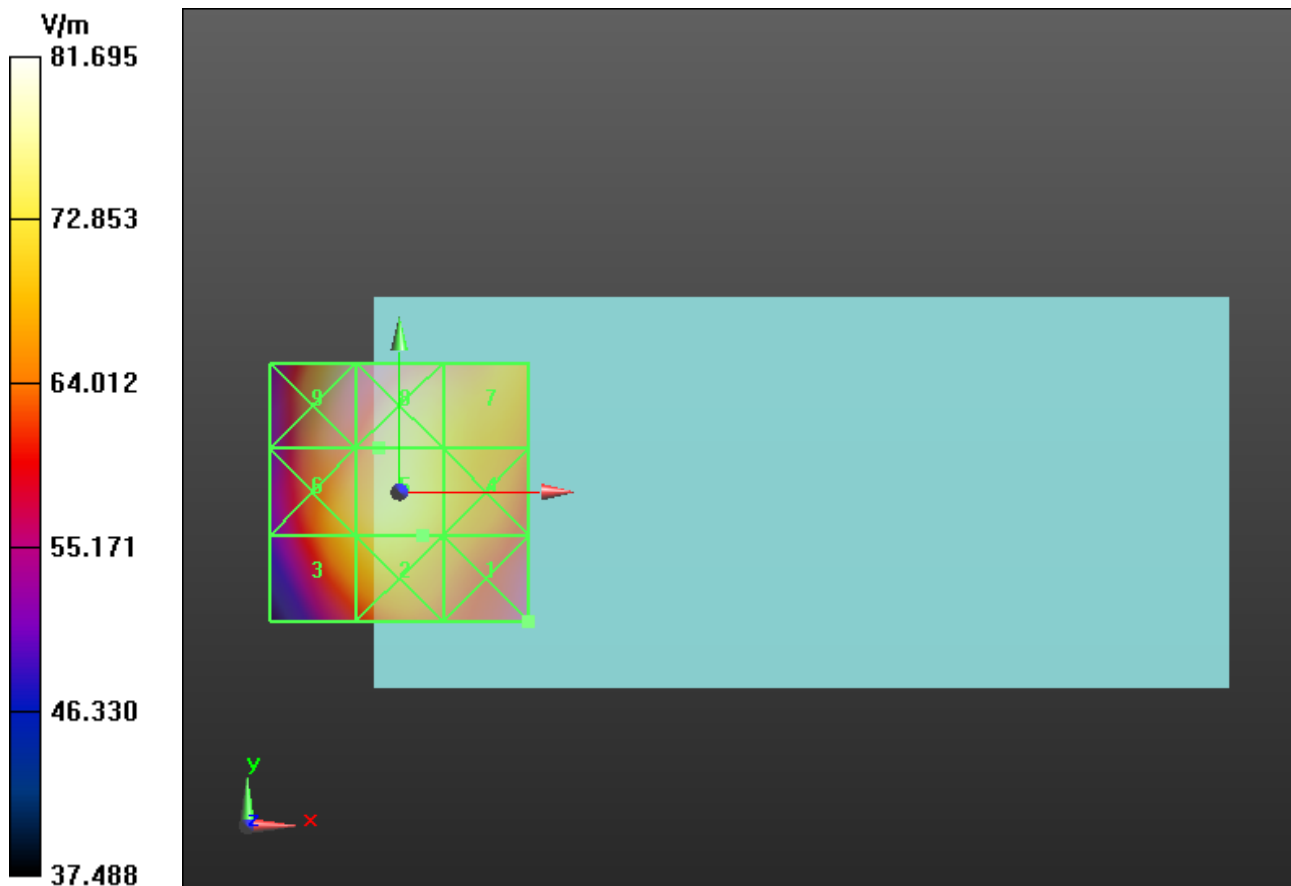
Category	AWF (dB)	Limits for E-Field Emissions (V/m) < 960MHz	Limits for H-Field Emissions (A/m) < 960 MHz
M1	0	631 - 1122	1.91 - 3.39
	-5	473.2 - 841.4	1.43 - 2.54
M2	0	354.8 - 631	1.07 - 1.91
	-5	266.1 - 473.2	0.8 - 1.43
M3	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M4	0	<199.5	<0.6
	-5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

Cursor:

Total = 0.4254 A/m

H Category: M4

Location: 25, -25, 8.7 mm



Plot E5

Date/Time: 10/14/2013 10:08:43 AM

Test Laboratory: SGS North America

E5

DUT: Intermec Catalina Handheld PC; Type: NA; Serial: NA

Communication System: UMTS-FDD (WCDMA); Communication System Band: Band 5, UTRA/FDD (824.0 - 849.0 MHz); Frequency: 836.6 MHz; Communication System PAR: 3 dB; PMF: 1
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2308; ConvF(1, 1, 1); Calibrated: 12/7/2012;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn1287; Calibrated: 10/4/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1163
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

Device E-Field measurement (E-field scan for ANSI C63.19-2007 & -2011 compliance)/E Scan - ER3D: 15 mm from Probe Center to the Device/Hearing Aid

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

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 94.49 V/m; Power Drift = 0.14 dB

PMR calibrated. Calibrated PMF = 1.000 is applied.

E-field emissions = 79.51 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 63.83 V/m	Grid 2 M4 72.83 V/m	Grid 3 M4 71.55 V/m
Grid 4 M4 69.57 V/m	Grid 5 M4 79.51 V/m	Grid 6 M4 77.87 V/m
Grid 7 M4 75.19 V/m	Grid 8 M4 80.79 V/m	Grid 9 M4 78.81 V/m

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 = 47.74 V/m

E Category: M4

Location: 25, -25, 8.7 mm

Plot H5

Date/Time: 10/14/2013 10:16:09 AM

Test Laboratory: SGS North America

DUT: Intermec Catalina Handheld PC; Type: NA; Serial: NA

Communication System: UMTS-FDD (WCDMA); Communication System Band: Band 5, UTRA/FDD (824.0 - 849.0 MHz); Frequency: 836.6 MHz; Communication System PAR: 9.191 dB; PMF: 2.88104
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6145; ; Calibrated: 12/7/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn1287; Calibrated: 10/4/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1163
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

Device H-Field measurement with H3DV6 probe (H-field scan for ANSI C63.19-2007 compliance)/H Scan - H3DV6: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
 Reference Value = 0.1640 A/m; Power Drift = -0.02 dB
 PMR not calibrated. PMF = 2.881 is applied.
 H-field emissions = 0.3688 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.361 A/m	Grid 2 M4 0.368 A/m	Grid 3 M4 0.338 A/m
Grid 4 M4 0.362 A/m	Grid 5 M4 0.369 A/m	Grid 6 M4 0.338 A/m
Grid 7 M4 0.354 A/m	Grid 8 M4 0.360 A/m	Grid 9 M4 0.298 A/m

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

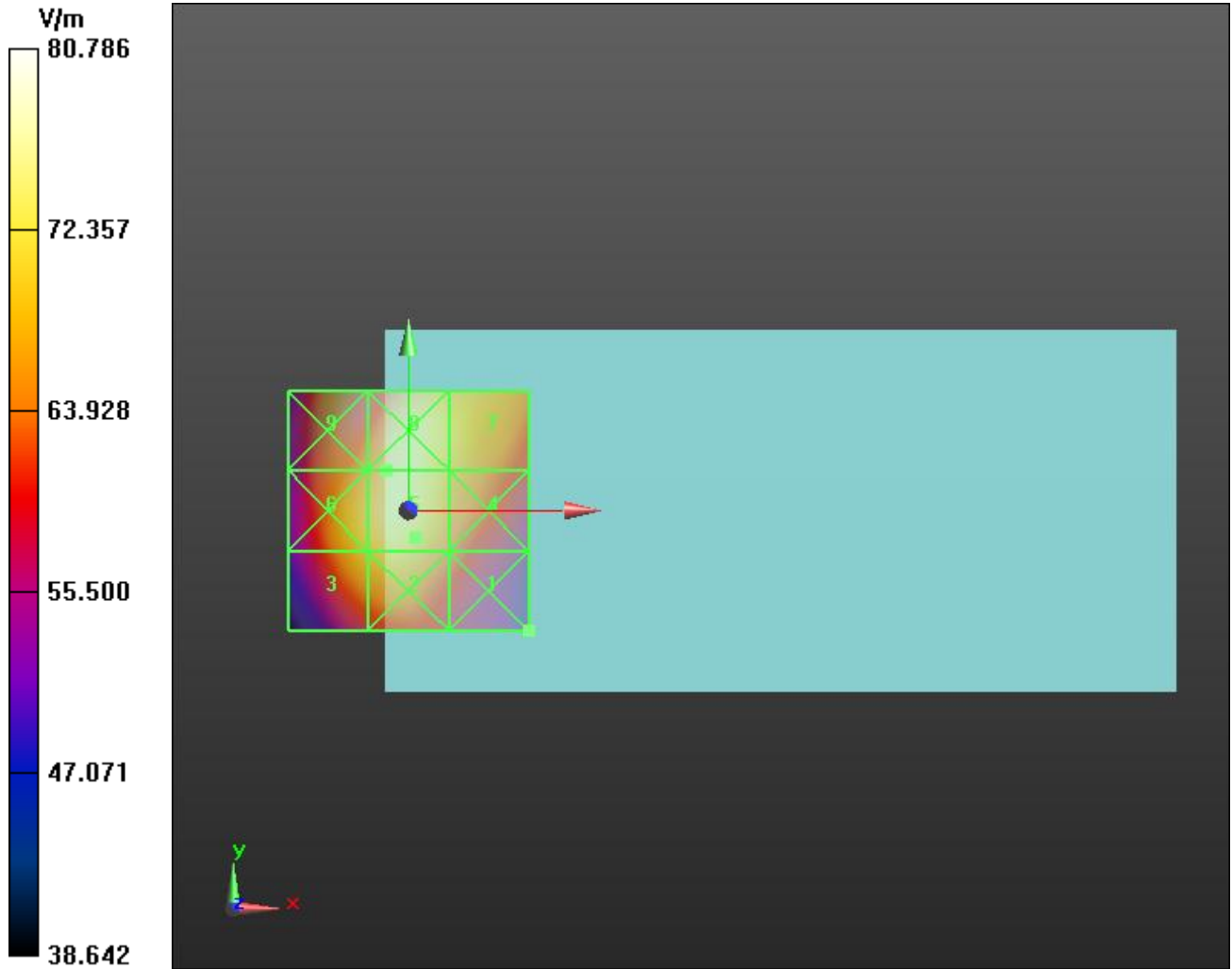
Category	AWF (dB)	Limits for E-Field Emissions (V/m) < 960MHz	Limits for H-Field Emissions (A/m) < 960 MHz
M1	0	631 - 1122	1.91 - 3.39
	-5	473.2 - 841.4	1.43 - 2.54
M2	0	354.8 - 631	1.07 - 1.91
	-5	266.1 - 473.2	0.8 - 1.43
M3	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M4	0	<199.5	<0.6
	-5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

Cursor:

Total = 0.3494 A/m

H Category: M4

Location: 25, -25, 8.7 mm



Plot E6

Date/Time: 10/14/2013 10:33:47 AM

Test Laboratory: SGS North America

E6

DUT: Intermec Catalina Handheld PC; Type: NA; Serial: NA

Communication System: UMTS-FDD (WCDMA); Communication System Band: Band 5, UTRA/FDD (824.0 - 849.0 MHz); Frequency: 846.6 MHz; Communication System PAR: 3 dB; PMF: 1
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2308; ConvF(1, 1, 1); Calibrated: 12/7/2012;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn1287; Calibrated: 10/4/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1163
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

Device E-Field measurement (E-field scan for ANSI C63.19-2007 & -2011 compliance)/E Scan - ER3D: 15 mm from Probe Center to the Device/Hearing Aid

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

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 85.67 V/m; Power Drift = -0.05 dB

PMR calibrated. Calibrated PMF = 1.000 is applied.

E-field emissions = 70.91 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 54.96 V/m	Grid 2 M4 61.10 V/m	Grid 3 M4 59.38 V/m
Grid 4 M4 63.88 V/m	Grid 5 M4 70.91 V/m	Grid 6 M4 69.44 V/m
Grid 7 M4 71.17 V/m	Grid 8 M4 74.35 V/m	Grid 9 M4 71.74 V/m

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 = 39.88 V/m

E Category: M4

Location: 25, -25, 8.7 mm

Plot H6

Date/Time: 10/14/2013 10:24:58 AM

Test Laboratory: SGS North America

DUT: Intermec Catalina Handheld PC; Type: NA; Serial: NA

Communication System: UMTS-FDD (WCDMA); Communication System Band: Band 5, UTRA/FDD (824.0 - 849.0 MHz); Frequency: 846.6 MHz; Communication System PAR: 9.191 dB; PMF: 2.88104
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6145; ; Calibrated: 12/7/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn1287; Calibrated: 10/4/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1163
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

Device H-Field measurement with H3DV6 probe (H-field scan for ANSI C63.19-2007 compliance)/H Scan - H3DV6: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
 Reference Value = 0.1800 A/m; Power Drift = 0.05 dB
 PMR not calibrated. PMF = 2.881 is applied.
 H-field emissions = 0.3979 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.368 A/m	Grid 2 M4 0.397 A/m	Grid 3 M4 0.382 A/m
Grid 4 M4 0.367 A/m	Grid 5 M4 0.398 A/m	Grid 6 M4 0.383 A/m
Grid 7 M4 0.348 A/m	Grid 8 M4 0.370 A/m	Grid 9 M4 0.330 A/m

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

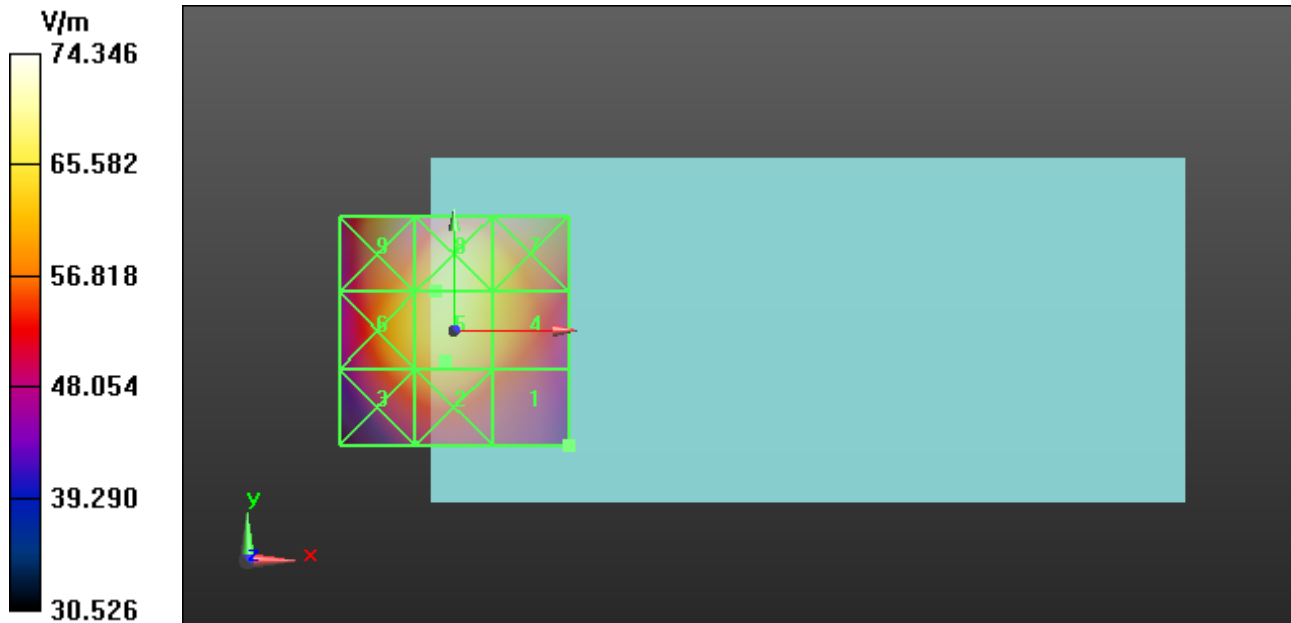
Category	AWF (dB)	Limits for E-Field Emissions (V/m) < 960MHz	Limits for H-Field Emissions (A/m) < 960 MHz
M1	0	631 - 1122	1.91 - 3.39
	-5	473.2 - 841.4	1.43 - 2.54
M2	0	354.8 - 631	1.07 - 1.91
	-5	266.1 - 473.2	0.8 - 1.43
M3	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M4	0	<199.5	<0.6
	-5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

Cursor:

Total = 0.2974 A/m

H Category: M4

Location: 25, -25, 8.7 mm



Plot E7

Date/Time: 10/15/2013 2:16:44 PM

Test Laboratory: SGS North America

E7

DUT: Intermec Catalina Handheld PC; Type: NA; Serial: NA

Communication System: CDMA2000 (1xRTT, RC3); Communication System Band: Band Class 0 (824.0 - 849.0 MHz); Frequency: 824.7 MHz; Communication System PAR: 4 dB; PMF: 1
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2308; ConvF(1, 1, 1); Calibrated: 12/7/2012;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn1287; Calibrated: 10/4/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1163
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

Device E-Field measurement (E-field scan for ANSI C63.19-2007 & -2011 compliance)/E Scan - ER3D: 15 mm from Probe Center to the Device/Hearing Aid

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

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 107.4 V/m; Power Drift = -0.06 dB

PMR calibrated. Calibrated PMF = 1.000 is applied.

E-field emissions = 85.84 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 73.52 V/m	Grid 2 M4 80.13 V/m	Grid 3 M4 77.48 V/m
Grid 4 M4 78.11 V/m	Grid 5 M4 85.84 V/m	Grid 6 M4 84.09 V/m
Grid 7 M4 82.40 V/m	Grid 8 M4 86.91 V/m	Grid 9 M4 84.70 V/m

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 = 60.16 V/m

E Category: M4

Location: 25, -25, 8.7 mm

Plot H7

Date/Time: 10/15/2013 2:04:24 PM

Test Laboratory: SGS North America

DUT: Intermec Catalina Handheld PC; Type: NA; Serial: NA

Communication System: CDMA; Communication System Band: FullSpan (0.0 - 6000.0 MHz);
 Frequency: 824.7 MHz; Communication System PAR: 0 dB; PMF: 1
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6145; ; Calibrated: 12/7/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn1287; Calibrated: 10/4/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1163
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

Device H-Field measurement with H3DV6 probe (H-field scan for ANSI C63.19-2007 compliance)/H Scan - H3DV6: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
 Reference Value = 0.1640 A/m; Power Drift = 0.02 dB
 PMR not calibrated. PMF = 1.000 is applied.
 H-field emissions = 0.1328 A/m
Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

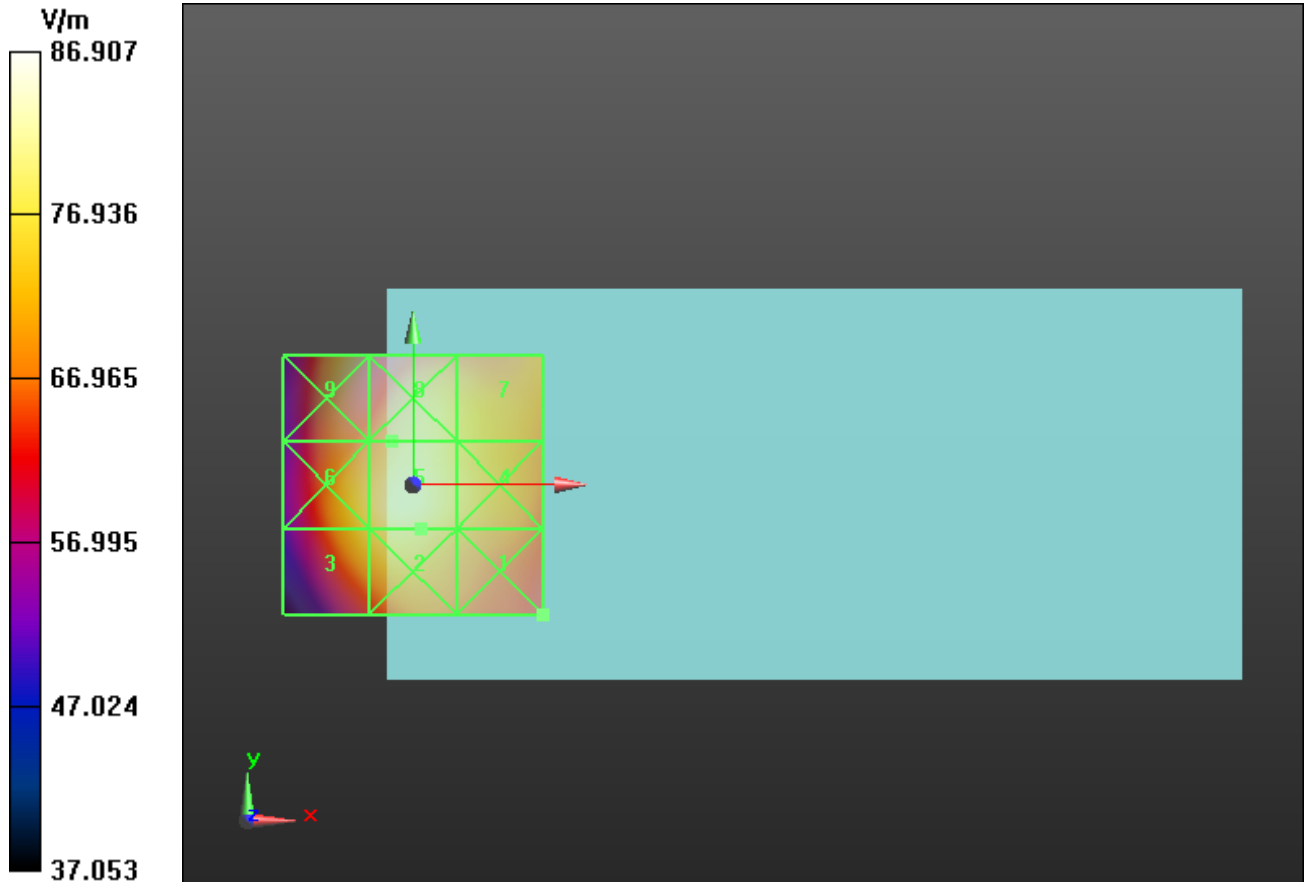
Grid 1 M4 0.131 A/m	Grid 2 M4 0.133 A/m	Grid 3 M4 0.123 A/m
Grid 4 M4 0.130 A/m	Grid 5 M4 0.133 A/m	Grid 6 M4 0.123 A/m
Grid 7 M4 0.121 A/m	Grid 8 M4 0.123 A/m	Grid 9 M4 0.103 A/m

Cursor:

Total = 0.1275 A/m

H Category: M4

Location: 25, -25, 8.7 mm



Plot E8

Date/Time: 10/15/2013 2:24:29 PM

Test Laboratory: SGS North America

E8

DUT: Intermec Catalina Handheld PC; Type: NA; Serial: NA

Communication System: CDMA2000 (1xRTT, RC3); Communication System Band: Band Class 0 (824.0 - 849.0 MHz); Frequency: 836.52 MHz; Communication System PAR: 4 dB; PMF: 1
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2308; ConvF(1, 1, 1); Calibrated: 12/7/2012;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn1287; Calibrated: 10/4/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1163
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

Device E-Field measurement (E-field scan for ANSI C63.19-2007 & -2011 compliance)/E Scan - ER3D: 15 mm from Probe Center to the Device/Hearing Aid

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

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 97.33 V/m; Power Drift = -0.01 dB

PMR calibrated. Calibrated PMF = 1.000 is applied.

E-field emissions = 77.98 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 63.02 V/m	Grid 2 M4 71.91 V/m	Grid 3 M4 70.07 V/m
Grid 4 M4 68.33 V/m	Grid 5 M4 77.98 V/m	Grid 6 M4 77.12 V/m
Grid 7 M4 74.41 V/m	Grid 8 M4 79.49 V/m	Grid 9 M4 77.48 V/m

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 = 48.81 V/m

E Category: M4

Location: 25, -25, 8.7 mm

Plot H8

Date/Time: 10/15/2013 2:43:51 PM

Test Laboratory: SGS North America

DUT: Intermec Catalina Handheld PC; Type: NA; Serial: NA

Communication System: CDMA; Communication System Band: FullSpan (0.0 - 6000.0 MHz);
 Frequency: 836.52 MHz; Communication System PAR: 0 dB; PMF: 1
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6145; ; Calibrated: 12/7/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn1287; Calibrated: 10/4/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1163
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

Device H-Field measurement with H3DV6 probe (H-field scan for ANSI C63.19-2007 compliance)/H Scan - H3DV6: 15 mm from Probe Center to the Device/Hearing Aid

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

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.1610 A/m; Power Drift = 0.07 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.1275 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

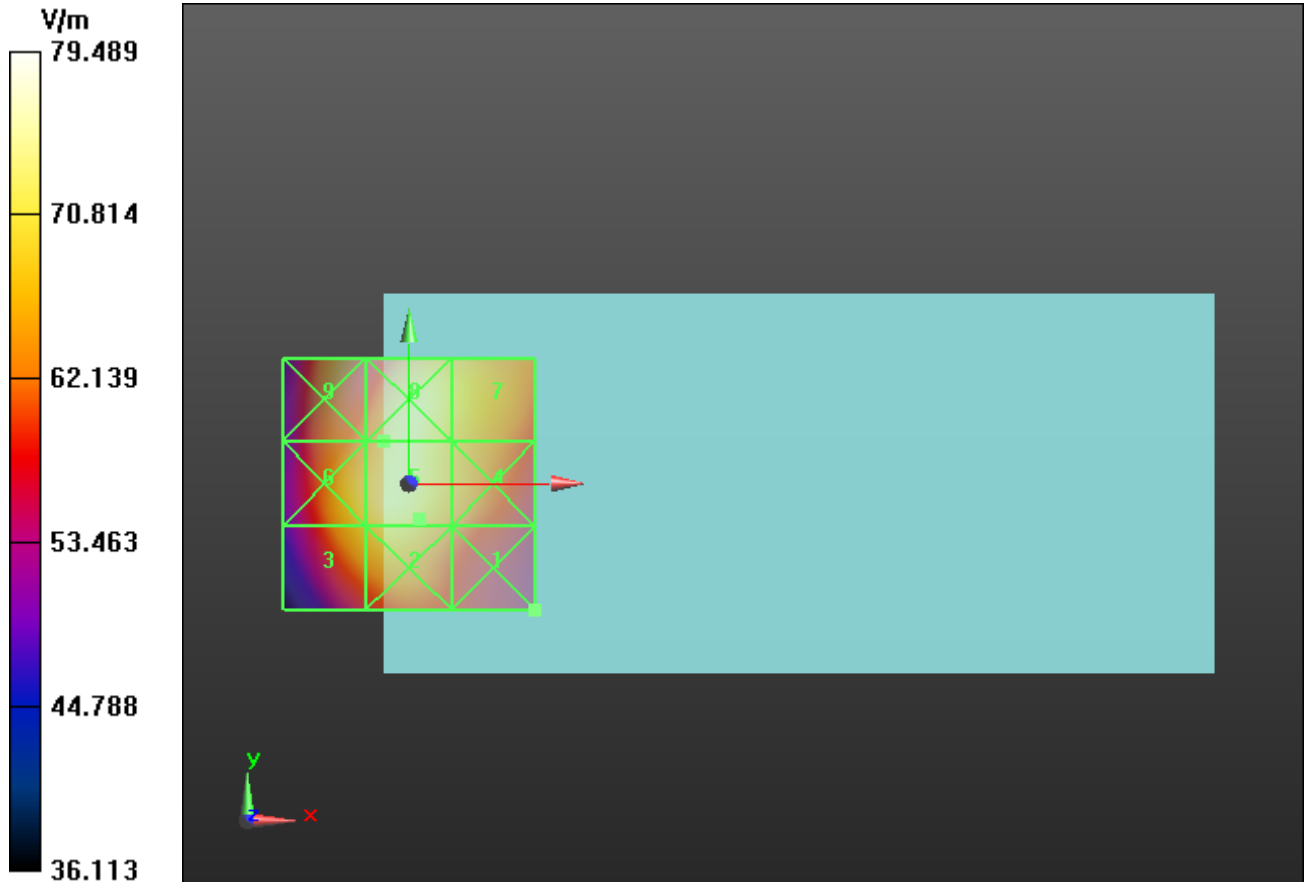
Grid 1 M4 0.124 A/m	Grid 2 M4 0.127 A/m	Grid 3 M4 0.116 A/m
Grid 4 M4 0.125 A/m	Grid 5 M4 0.128 A/m	Grid 6 M4 0.116 A/m
Grid 7 M4 0.122 A/m	Grid 8 M4 0.125 A/m	Grid 9 M4 0.101 A/m

Cursor:

Total = 0.1082 A/m

H Category: M4

Location: 25, -25, 8.7 mm



Plot E9

Date/Time: 10/15/2013 2:30:57 PM

Test Laboratory: SGS North America

E9

DUT: Intermec Catalina Handheld PC; Type: NA; Serial: NA

Communication System: CDMA2000 (1xRTT, RC3); Communication System Band: Band Class 0 (824.0 - 849.0 MHz); Frequency: 848.31 MHz; Communication System PAR: 4 dB; PMF: 1
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2308; ConvF(1, 1, 1); Calibrated: 12/7/2012;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn1287; Calibrated: 10/4/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1163
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

Device E-Field measurement (E-field scan for ANSI C63.19-2007 & -2011 compliance)/E Scan - ER3D: 15 mm from Probe Center to the Device/Hearing Aid

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

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 91.36 V/m; Power Drift = 0.03 dB

PMR calibrated. Calibrated PMF = 1.000 is applied.

E-field emissions = 72.89 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 56.41 V/m	Grid 2 M4 62.16 V/m	Grid 3 M4 60.18 V/m
Grid 4 M4 65.17 V/m	Grid 5 M4 72.89 V/m	Grid 6 M4 71.30 V/m
Grid 7 M4 73.49 V/m	Grid 8 M4 76.91 V/m	Grid 9 M4 74.02 V/m

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 = 41.54 V/m

E Category: M4

Location: 25, -25, 8.7 mm

Plot H9

Date/Time: 10/15/2013 2:38:14 PM

Test Laboratory: SGS North America

DUT: Intermec Catalina Handheld PC; Type: NA; Serial: NA

Communication System: CDMA; Communication System Band: FullSpan (0.0 - 6000.0 MHz);
 Frequency: 848.31 MHz; Communication System PAR: 0 dB; PMF: 1
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6145; ; Calibrated: 12/7/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn1287; Calibrated: 10/4/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1163
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

Device H-Field measurement with H3DV6 probe (H-field scan for ANSI C63.19-2007 compliance)/H Scan - H3DV6: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
 Reference Value = 0.1750 A/m; Power Drift = 0.03 dB
 PMR not calibrated. PMF = 1.000 is applied.
 H-field emissions = 0.1396 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

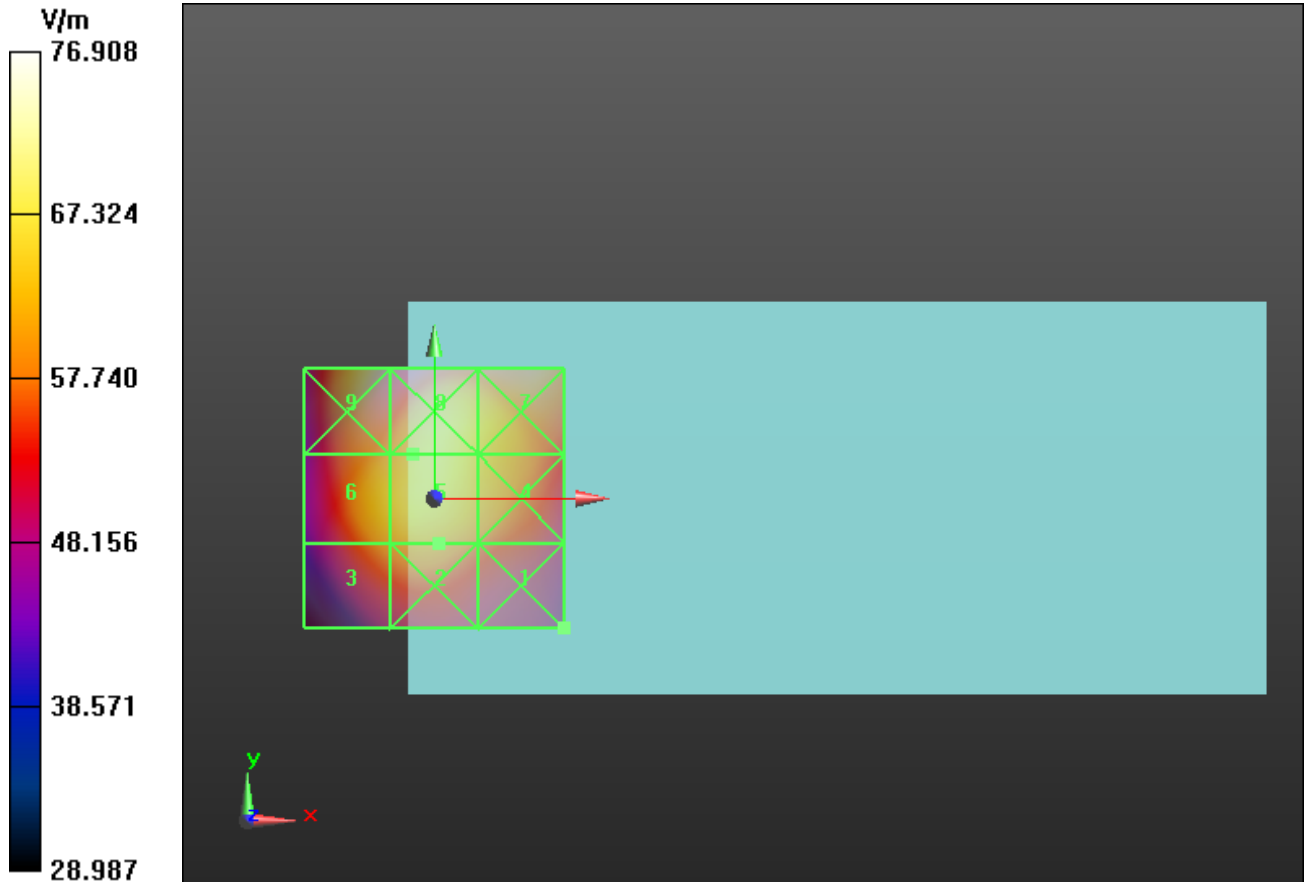
Grid 1 M4 0.133 A/m	Grid 2 M4 0.140 A/m	Grid 3 M4 0.130 A/m
Grid 4 M4 0.133 A/m	Grid 5 M4 0.140 A/m	Grid 6 M4 0.130 A/m
Grid 7 M4 0.125 A/m	Grid 8 M4 0.130 A/m	Grid 9 M4 0.109 A/m

Cursor:

Total = 0.1137 A/m

H Category: M4

Location: 25, -25, 8.7 mm



Plot E10

Date/Time: 10/11/2013 2:08:29 PM

Test Laboratory: SGS North America

E10

DUT: Intermec Catalina Handheld PC; Type: NA; Serial: NA

Communication System: Generic GSM; Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz); Frequency: 1850.2 MHz; Communication System PAR: 9.191 dB; PMF: 2.88104
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2308; ConvF(1, 1, 1); Calibrated: 12/7/2012;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn1287; Calibrated: 10/4/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1163
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

Device E-Field measurement (E-field scan for ANSI C63.19-2007 & -2011 compliance)/E Scan - ER3D: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
 Reference Value = 19.07 V/m; Power Drift = 0.77 dB
 PMR not calibrated. PMF = 2.881 is applied.
 E-field emissions = 52.48 V/m
Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 49.54 V/m	Grid 2 M4 49.42 V/m	Grid 3 M4 49.17 V/m
Grid 4 M4 51.81 V/m	Grid 5 M4 52.48 V/m	Grid 6 M4 51.53 V/m
Grid 7 M4 57.11 V/m	Grid 8 M4 55.93 V/m	Grid 9 M4 53.23 V/m

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 = 47.79 V/m

E Category: M4

Location: 25, -25, 8.7 mm

Plot H10

Date/Time: 10/11/2013 2:27:26 PM

Test Laboratory: SGS North America

DUT: Intermec Catalina Handheld PC; Type: NA; Serial: NA

Communication System: Generic GSM; Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz); Frequency: 1850.2 MHz; Communication System PAR: 9.191 dB; PMF: 2.88104
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6145; ; Calibrated: 12/7/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn1287; Calibrated: 10/4/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1163
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

Device H-Field measurement with H3DV6 probe (H-field scan for ANSI C63.19-2007 compliance)/H Scan - H3DV6: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
 Reference Value = 0.04900 A/m; Power Drift = -0.06 dB
 PMR not calibrated. PMF = 2.881 is applied.
 H-field emissions = 0.1535 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.176 A/m	Grid 2 M4 0.163 A/m	Grid 3 M4 0.162 A/m
Grid 4 M4 0.154 A/m	Grid 5 M4 0.150 A/m	Grid 6 M4 0.152 A/m
Grid 7 M4 0.126 A/m	Grid 8 M4 0.121 A/m	Grid 9 M4 0.122 A/m

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

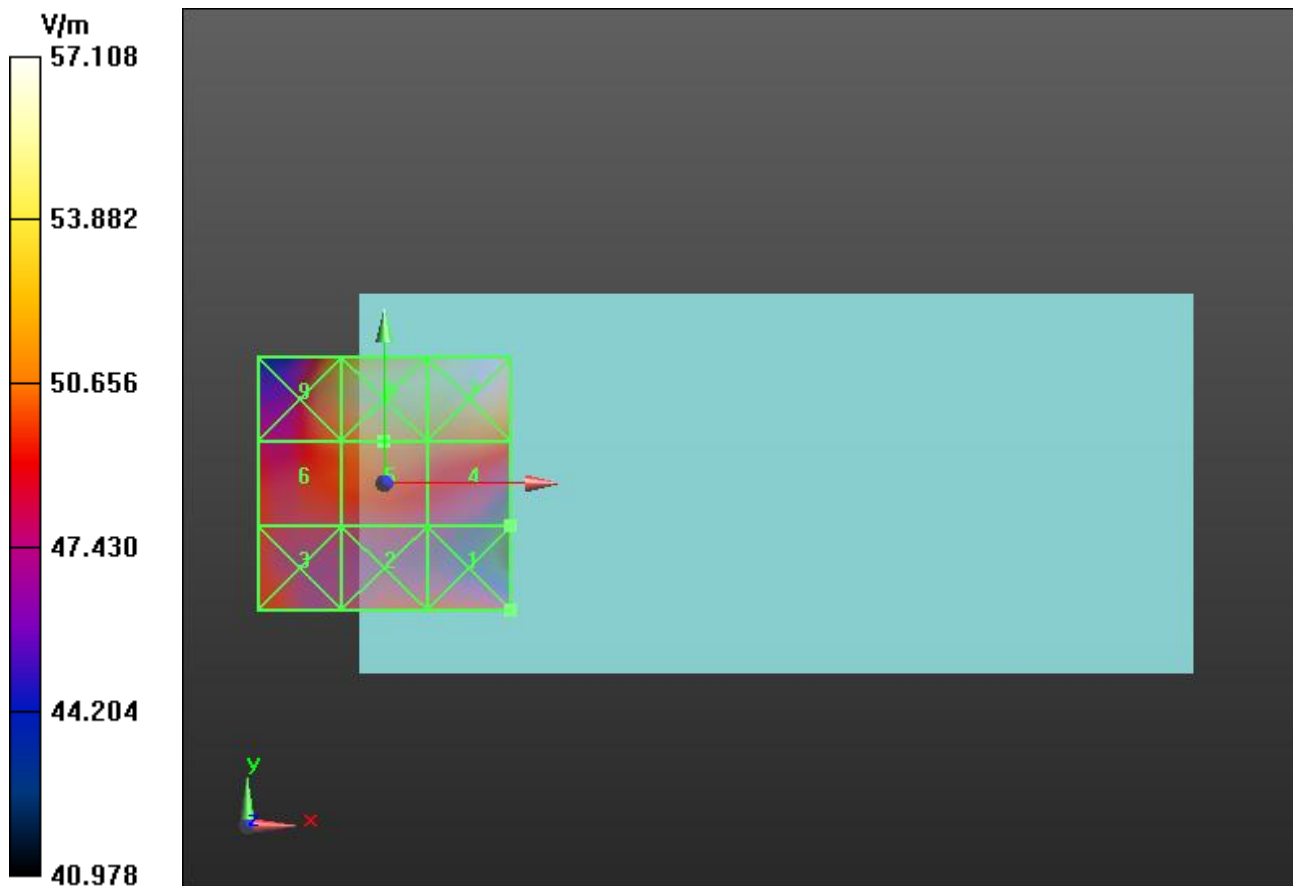
Category	AWF (dB)	Limits for E-Field Emissions (V/m) < 960MHz	Limits for H-Field Emissions (A/m) < 960 MHz
M1	0	631 - 1122	1.91 - 3.39
	-5	473.2 - 841.4	1.43 - 2.54
M2	0	354.8 - 631	1.07 - 1.91
	-5	266.1 - 473.2	0.8 - 1.43
M3	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M4	0	<199.5	<0.6
	-5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

Cursor:

Total = 0.1763 A/m

H Category: M4

Location: 25, -25, 8.7 mm



Plot E11

Date/Time: 10/11/2013 3:23:02 PM

Test Laboratory: SGS North America

E11

DUT: Intermec Catalina Handheld PC; Type: NA; Serial: NA

Communication System: Generic GSM; Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz); Frequency: 1880 MHz; Communication System PAR: 9.191 dB; PMF: 2.88104
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2308; ConvF(1, 1, 1); Calibrated: 12/7/2012;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn1287; Calibrated: 10/4/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1163
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

Device E-Field measurement (E-field scan for ANSI C63.19-2007 & -2011 compliance)/E Scan - ER3D: 15 mm from Probe Center to the Device/Hearing Aid

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

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 13.77 V/m; Power Drift = 0.06 dB

PMR not calibrated. PMF = 2.881 is applied.

E-field emissions = 46.27 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 50.66 V/m	Grid 2 M4 46.79 V/m	Grid 3 M4 38.68 V/m
Grid 4 M4 37.28 V/m	Grid 5 M4 39.00 V/m	Grid 6 M4 38.89 V/m
Grid 7 M4 45.98 V/m	Grid 8 M4 46.27 V/m	Grid 9 M4 44.28 V/m

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 = 50.46 V/m

E Category: M4

Location: 25, -25, 8.7 mm

Plot H11

Date/Time: 10/11/2013 3:09:51 PM

Test Laboratory: SGS North America

DUT: Intermec Catalina Handheld PC; Type: NA; Serial: NA

Communication System: Generic GSM; Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz); Frequency: 1880 MHz; Communication System PAR: 9.191 dB; PMF: 2.88104
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6145; ; Calibrated: 12/7/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn1287; Calibrated: 10/4/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1163
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

Device H-Field measurement with H3DV6 probe (H-field scan for ANSI C63.19-2007 compliance)/H Scan - H3DV6: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
 Reference Value = 0.03800 A/m; Power Drift = 0.05 dB
 PMR not calibrated. PMF = 2.881 is applied.
 H-field emissions = 0.1308 A/m
Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.136 A/m	Grid 2 M4 0.135 A/m	Grid 3 M4 0.136 A/m
Grid 4 M4 0.106 A/m	Grid 5 M4 0.124 A/m	Grid 6 M4 0.131 A/m
Grid 7 M4 0.084 A/m	Grid 8 M4 0.110 A/m	Grid 9 M4 0.117 A/m

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

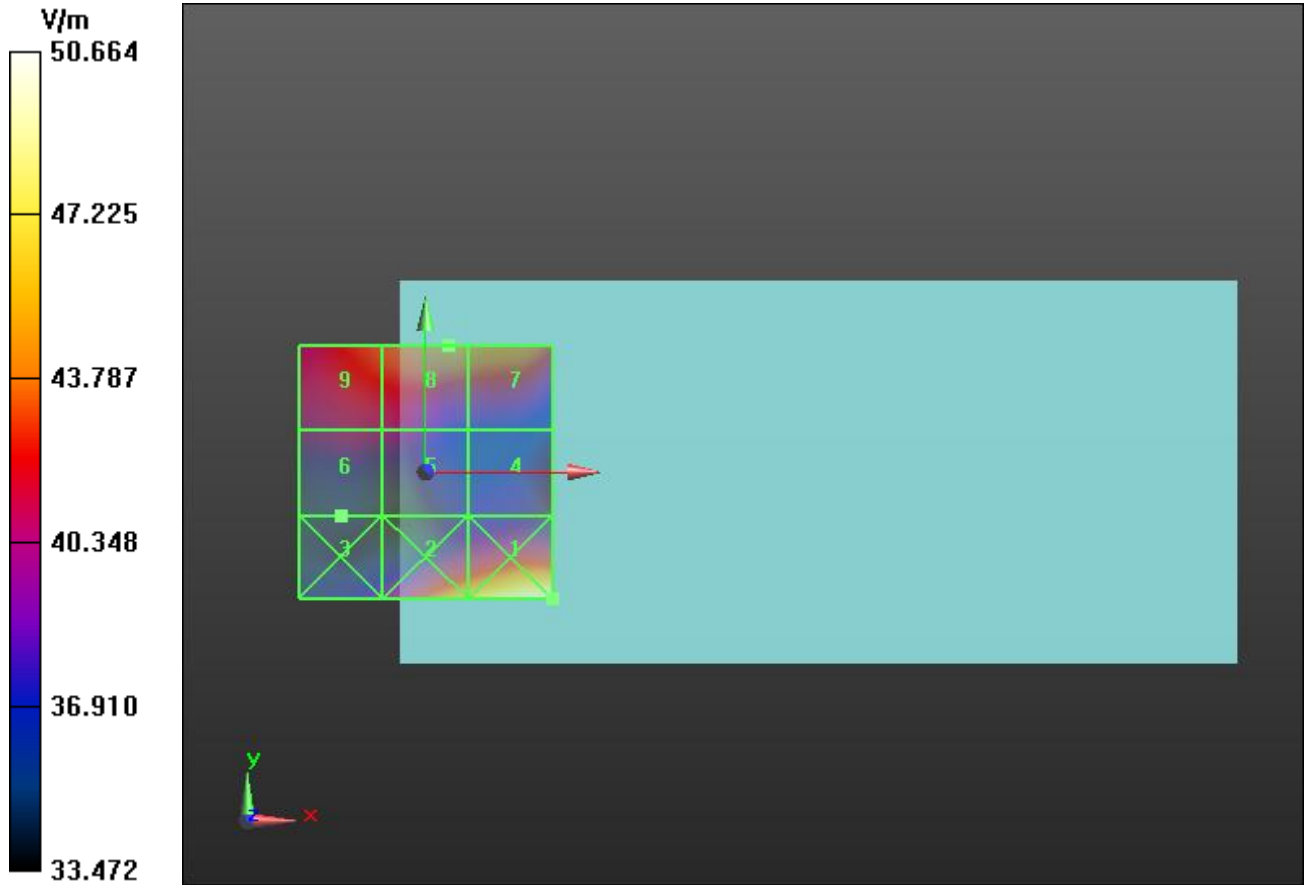
Category	AWF (dB)	Limits for E-Field Emissions (V/m) < 960MHz	Limits for H-Field Emissions (A/m) < 960 MHz
M1	0	631 - 1122	1.91 - 3.39
	-5	473.2 - 841.4	1.43 - 2.54
M2	0	354.8 - 631	1.07 - 1.91
	-5	266.1 - 473.2	0.8 - 1.43
M3	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M4	0	<199.5	<0.6
	-5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

Cursor:

Total = 0.1356 A/m

H Category: M4

Location: 25, -25, 8.7 mm



Plot E12

Date/Time: 10/11/2013 3:38:36 PM

Test Laboratory: SGS North America

E12

DUT: Intermec Catalina Handheld PC; Type: NA; Serial: NA

Communication System: Generic GSM; Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz); Frequency: 1909.8 MHz; Communication System PAR: 9.191 dB; PMF: 2.88104
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2308; ConvF(1, 1, 1); Calibrated: 12/7/2012;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn1287; Calibrated: 10/4/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1163
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

Device E-Field measurement (E-field scan for ANSI C63.19-2007 & -2011 compliance)/E Scan - ER3D: 15 mm from Probe Center to the Device/Hearing Aid

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

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 11.60 V/m; Power Drift = 0.14 dB

PMR not calibrated. PMF = 2.881 is applied.

E-field emissions = 38.51 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 43.99 V/m	Grid 2 M4 36.55 V/m	Grid 3 M4 36.80 V/m
Grid 4 M4 32.48 V/m	Grid 5 M4 34.48 V/m	Grid 6 M4 38.50 V/m
Grid 7 M4 31.56 V/m	Grid 8 M4 34.49 V/m	Grid 9 M4 38.51 V/m

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 = 43.99 V/m

E Category: M4

Location: 25, -25, 8.7 mm

Plot H12

Date/Time: 10/11/2013 3:46:26 PM

Test Laboratory: SGS North America

DUT: Intermec Catalina Handheld PC; Type: NA; Serial: NA

Communication System: Generic GSM; Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz); Frequency: 1909.8 MHz; Communication System PAR: 9.191 dB; PMF: 2.88104
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6145; ; Calibrated: 12/7/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn1287; Calibrated: 10/4/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1163
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

Device H-Field measurement with H3DV6 probe (H-field scan for ANSI C63.19-2007 compliance)/H Scan - H3DV6: 15 mm from Probe Center to the Device/Hearing Aid

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

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.03700 A/m; Power Drift = -0.12 dB

PMR not calibrated. PMF = 2.881 is applied.

H-field emissions = 0.1258 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.121 A/m	Grid 2 M4 0.141 A/m	Grid 3 M4 0.142 A/m
Grid 4 M4 0.086 A/m	Grid 5 M4 0.126 A/m	Grid 6 M4 0.132 A/m
Grid 7 M4 0.062 A/m	Grid 8 M4 0.100 A/m	Grid 9 M4 0.110 A/m

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

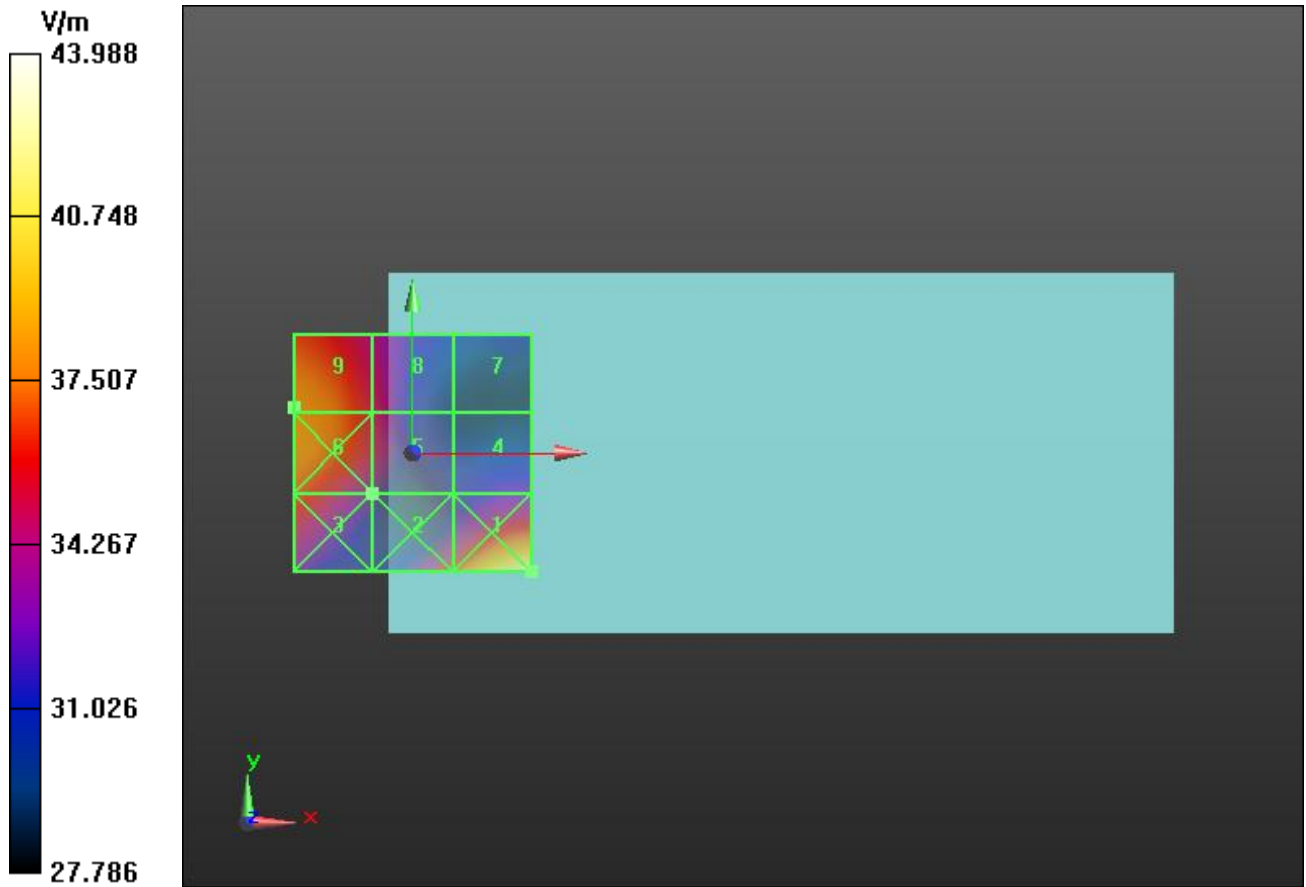
Category	AWF (dB)	Limits for E-Field Emissions (V/m) < 960MHz	Limits for H-Field Emissions (A/m) < 960 MHz
M1	0	631 - 1122	1.91 - 3.39
	-5	473.2 - 841.4	1.43 - 2.54
M2	0	354.8 - 631	1.07 - 1.91
	-5	266.1 - 473.2	0.8 - 1.43
M3	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M4	0	<199.5	<0.6
	-5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

Cursor:

Total = 0.1180 A/m

H Category: M4

Location: 25, -25, 8.7 mm



Plot E13

Date/Time: 10/14/2013 10:55:31 AM

Test Laboratory: SGS North America

E13

DUT: Intermec Catalina Handheld PC; Type: NA; Serial: NA

Communication System: UMTS-FDD (WCDMA); Communication System Band: Band 2, UTRA/FDD (1850.0 - 1910.0 MHz); Frequency: 1852.4 MHz; Communication System PAR: 3 dB; PMF: 1
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2308; ConvF(1, 1, 1); Calibrated: 12/7/2012;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn1287; Calibrated: 10/4/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1163
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

Device E-Field measurement (E-field scan for ANSI C63.19-2007 & -2011 compliance)/E Scan - ER3D: 15 mm from Probe Center to the Device/Hearing Aid

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

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 35.04 V/m; Power Drift = -0.12 dB

PMR calibrated. Calibrated PMF = 1.000 is applied.

E-field emissions = 32.31 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 27.84 V/m	Grid 2 M4 27.86 V/m	Grid 3 M4 27.39 V/m
Grid 4 M4 30.48 V/m	Grid 5 M4 32.31 V/m	Grid 6 M4 31.67 V/m
Grid 7 M4 33.67 V/m	Grid 8 M4 34.70 V/m	Grid 9 M4 33.24 V/m

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 = 27.84 V/m

E Category: M4

Location: 25, -25, 8.7 mm

Plot H13

Date/Time: 10/14/2013 11:06:03 AM

Test Laboratory: SGS North America

DUT: Intermec Catalina Handheld PC; Type: NA; Serial: NA

Communication System: WCDMA; Communication System Band: FullSpan (0.0 - 6000.0 MHz);
 Frequency: 1852.4 MHz; Communication System PAR: 0 dB; PMF: 1
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6145; ; Calibrated: 12/7/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn1287; Calibrated: 10/4/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1163
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Device H-Field measurement with H3DV6 probe (H-field scan for ANSI C63.19-2007 compliance)/H Scan - H3DV6: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
 Reference Value = 0.06600 A/m; Power Drift = -0.22 dB
 PMR not calibrated. PMF = 1.000 is applied.
 H-field emissions = 0.07526 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

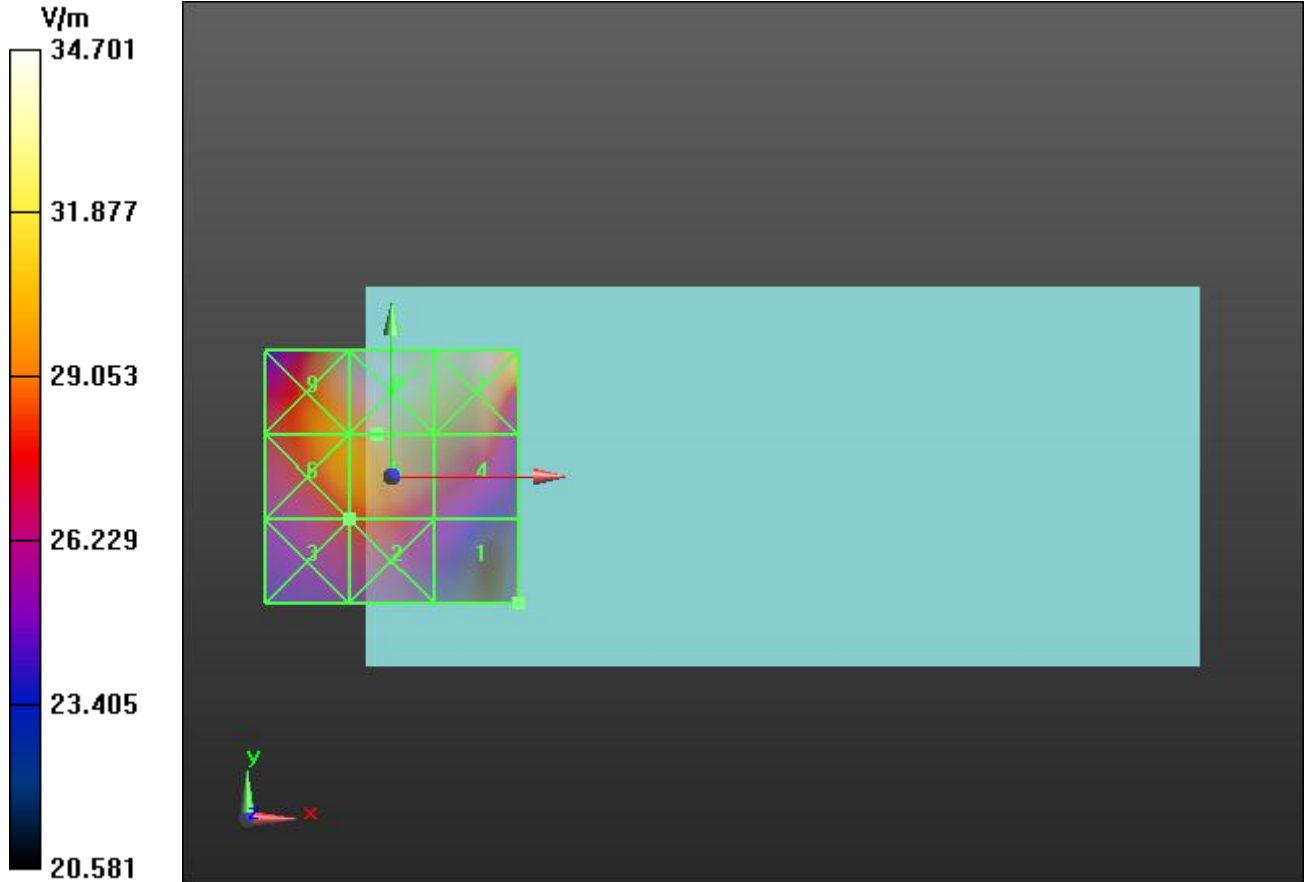
Grid 1 M4 0.071 A/m	Grid 2 M4 0.078 A/m	Grid 3 M4 0.083 A/m
Grid 4 M4 0.065 A/m	Grid 5 M4 0.075 A/m	Grid 6 M4 0.082 A/m
Grid 7 M4 0.068 A/m	Grid 8 M4 0.066 A/m	Grid 9 M4 0.071 A/m

Cursor:

Total = 0.07059 A/m

H Category: M4

Location: 25, -25, 8.7 mm



Plot E14

Date/Time: 10/14/2013 11:30:02 AM

Test Laboratory: SGS North America

E14

DUT: Intermec Catalina Handheld PC; Type: NA; Serial: NA

Communication System: UMTS-FDD (WCDMA); Communication System Band: Band 2, UTRA/FDD (1850.0 - 1910.0 MHz); Frequency: 1880 MHz; Communication System PAR: 3 dB; PMF: 1
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2308; ConvF(1, 1, 1); Calibrated: 12/7/2012;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn1287; Calibrated: 10/4/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1163
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

Device E-Field measurement (E-field scan for ANSI C63.19-2007 & -2011 compliance)/E Scan - ER3D: 15 mm from Probe Center to the Device/Hearing Aid

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

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 28.95 V/m; Power Drift = -0.18 dB

PMR calibrated. Calibrated PMF = 1.000 is applied.

E-field emissions = 30.01 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 18.94 V/m	Grid 2 M4 23.40 V/m	Grid 3 M4 25.95 V/m
Grid 4 M4 27.19 V/m	Grid 5 M4 30.01 V/m	Grid 6 M4 29.96 V/m
Grid 7 M4 36.16 V/m	Grid 8 M4 37.71 V/m	Grid 9 M4 36.71 V/m

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 = 14.77 V/m

E Category: M4

Location: 25, -25, 8.7 mm

Plot H14

Date/Time: 10/14/2013 11:14:27 AM

Test Laboratory: SGS North America

DUT: Intermec Catalina Handheld PC; Type: NA; Serial: NA

Communication System: WCDMA; Communication System Band: FullSpan (0.0 - 6000.0 MHz);
 Frequency: 1880 MHz; Communication System PAR: 0 dB; PMF: 1
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6145; ; Calibrated: 12/7/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn1287; Calibrated: 10/4/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1163
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

Device H-Field measurement with H3DV6 probe (H-field scan for ANSI C63.19-2007 compliance)/H Scan - H3DV6: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
 Reference Value = 0.06300 A/m; Power Drift = 0.03 dB
 PMR not calibrated. PMF = 1.000 is applied.
 H-field emissions = 0.06542 A/m
Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

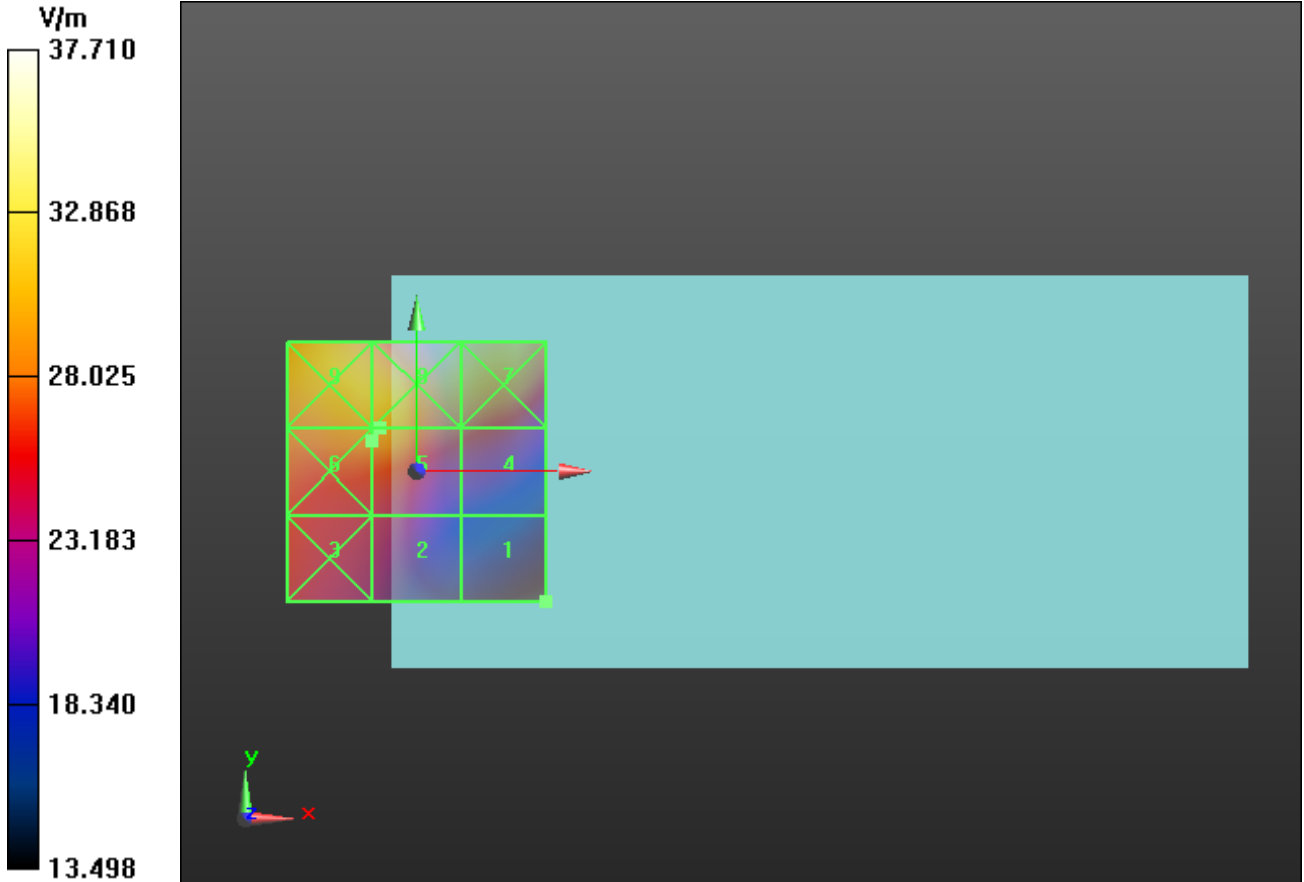
Grid 1 M4 0.057 A/m	Grid 2 M4 0.063 A/m	Grid 3 M4 0.068 A/m
Grid 4 M4 0.049 A/m	Grid 5 M4 0.065 A/m	Grid 6 M4 0.069 A/m
Grid 7 M4 0.049 A/m	Grid 8 M4 0.065 A/m	Grid 9 M4 0.069 A/m

Cursor:

Total = 0.05705 A/m

H Category: M4

Location: 25, -25, 8.7 mm



Plot E15

Date/Time: 10/14/2013 11:44:49 AM

Test Laboratory: SGS North America

E15

DUT: Intermec Catalina Handheld PC; Type: NA; Serial: NA

Communication System: UMTS-FDD (WCDMA); Communication System Band: Band 2, UTRA/FDD (1850.0 - 1910.0 MHz); Frequency: 1907.6 MHz; Communication System PAR: 3 dB; PMF: 1
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2308; ConvF(1, 1, 1); Calibrated: 12/7/2012;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn1287; Calibrated: 10/4/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1163
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

Device E-Field measurement (E-field scan for ANSI C63.19-2007 & -2011 compliance)/E Scan - ER3D: 15 mm from Probe Center to the Device/Hearing Aid

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

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 16.66 V/m; Power Drift = -0.14 dB

PMR calibrated. Calibrated PMF = 1.000 is applied.

E-field emissions = 20.89 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 20.89 V/m	Grid 2 M4 19.02 V/m	Grid 3 M4 20.63 V/m
Grid 4 M4 16.43 V/m	Grid 5 M4 17.99 V/m	Grid 6 M4 20.81 V/m
Grid 7 M4 20.21 V/m	Grid 8 M4 20.21 V/m	Grid 9 M4 21.18 V/m

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 = 19.35 V/m

E Category: M4

Location: 25, -25, 8.7 mm

Plot H15

Date/Time: 10/14/2013 11:54:32 AM

Test Laboratory: SGS North America

DUT: Intermec Catalina Handheld PC; Type: NA; Serial: NA

Communication System: WCDMA; Communication System Band: FullSpan (0.0 - 6000.0 MHz);
 Frequency: 1907.6 MHz; Communication System PAR: 0 dB; PMF: 1
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6145; ; Calibrated: 12/7/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn1287; Calibrated: 10/4/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1163
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Device H-Field measurement with H3DV6 probe (H-field scan for ANSI C63.19-2007 compliance)/H Scan - H3DV6: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
 Reference Value = 0.06100 A/m; Power Drift = -0.19 dB
 PMR not calibrated. PMF = 1.000 is applied.
 H-field emissions = 0.06920 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

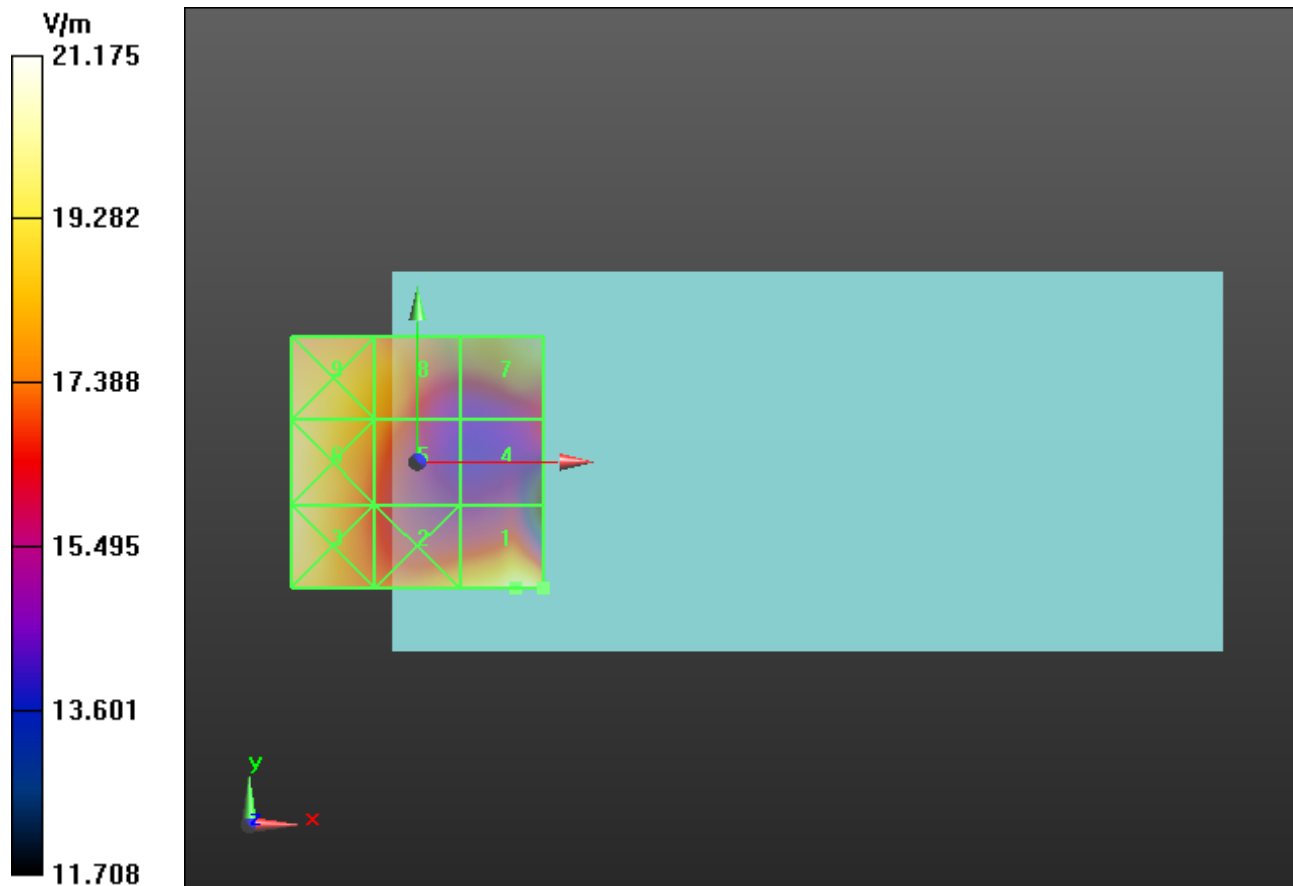
Grid 1 M4 0.069 A/m	Grid 2 M4 0.068 A/m	Grid 3 M4 0.070 A/m
Grid 4 M4 0.058 A/m	Grid 5 M4 0.066 A/m	Grid 6 M4 0.070 A/m
Grid 7 M4 0.047 A/m	Grid 8 M4 0.061 A/m	Grid 9 M4 0.065 A/m

Cursor:

Total = 0.06920 A/m

H Category: M4

Location: 25, -25, 8.7 mm



Plot E16

Date/Time: 10/15/2013 3:36:49 PM

Test Laboratory: SGS North America

E16

DUT: Intermec Catalina Handheld PC; Type: NA; Serial: NA

Communication System: CDMA2000 (1xRTT, RC1); Communication System Band: Band Class 1 (1850.0 - 1910.0 MHz); Frequency: 1851.25 MHz; Communication System PAR: 5 dB; PMF: 1
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2308; ConvF(1, 1, 1); Calibrated: 12/7/2012;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn1287; Calibrated: 10/4/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1163
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

Device E-Field measurement (E-field scan for ANSI C63.19-2007 & -2011 compliance)/E Scan - ER3D: 15 mm from Probe Center to the Device/Hearing Aid

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

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 33.60 V/m; Power Drift = 0.00 dB

PMR calibrated. Calibrated PMF = 1.000 is applied.

E-field emissions = 30.50 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 24.61 V/m	Grid 2 M4 25.50 V/m	Grid 3 M4 24.89 V/m
Grid 4 M4 28.91 V/m	Grid 5 M4 30.50 V/m	Grid 6 M4 29.71 V/m
Grid 7 M4 32.32 V/m	Grid 8 M4 33.52 V/m	Grid 9 M4 31.90 V/m

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 = 22.82 V/m

E Category: M4

Location: 25, -25, 8.7 mm

Plot H16

Date/Time: 10/15/2013 2:59:15 PM

Test Laboratory: SGS North America

DUT: Intermec Catalina Handheld PC; Type: NA; Serial: NA

Communication System: CDMA; Communication System Band: FullSpan (0.0 - 6000.0 MHz);
 Frequency: 1851.25 MHz; Communication System PAR: 0 dB; PMF: 1
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6145; ; Calibrated: 12/7/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn1287; Calibrated: 10/4/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1163
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

Device H-Field measurement with H3DV6 probe (H-field scan for ANSI C63.19-2007 compliance)/H Scan - H3DV6: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
 Reference Value = 0.06400 A/m; Power Drift = -0.11 dB
 PMR not calibrated. PMF = 1.000 is applied.
 H-field emissions = 0.07662 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

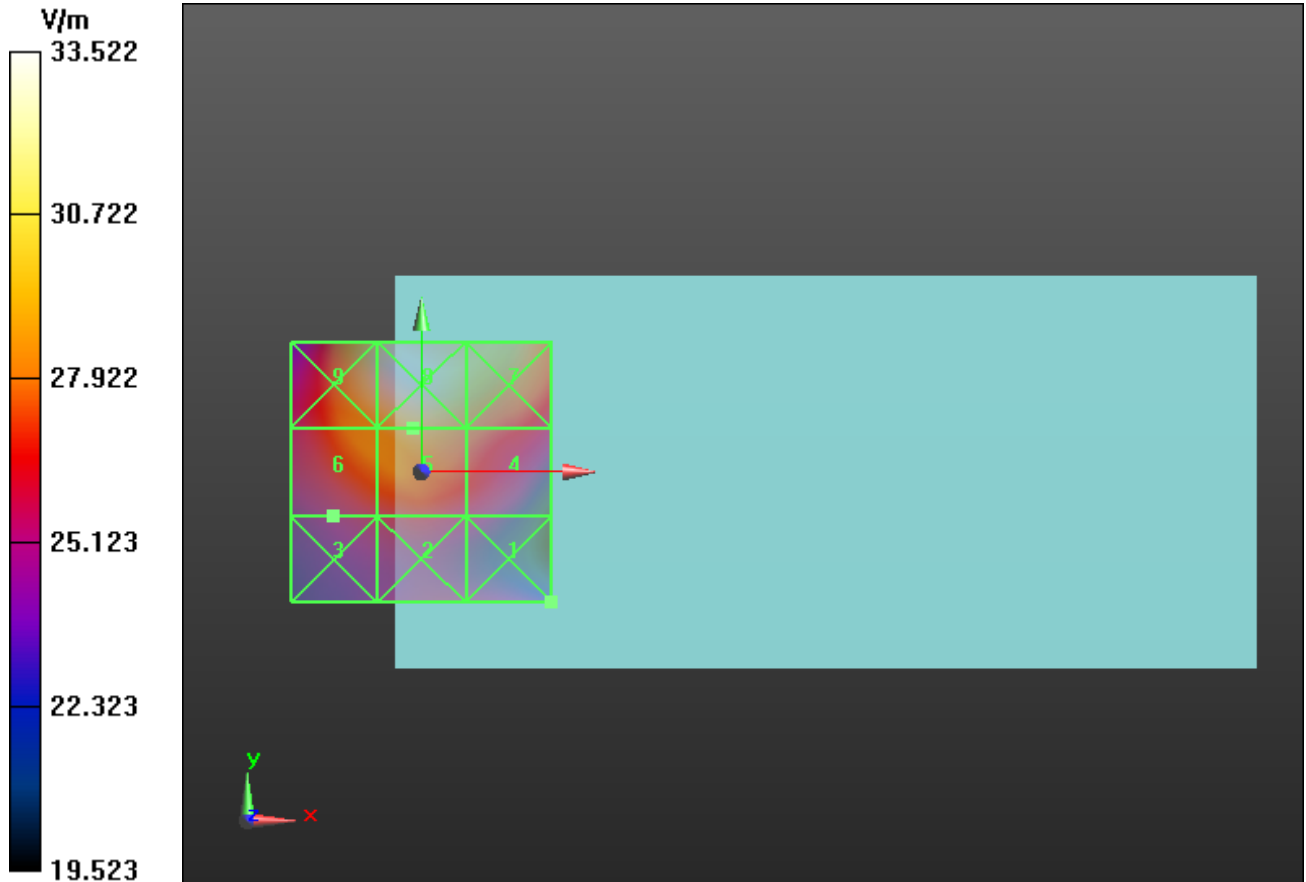
Grid 1 M4 0.087 A/m	Grid 2 M4 0.079 A/m	Grid 3 M4 0.080 A/m
Grid 4 M4 0.074 A/m	Grid 5 M4 0.074 A/m	Grid 6 M4 0.077 A/m
Grid 7 M4 0.059 A/m	Grid 8 M4 0.058 A/m	Grid 9 M4 0.062 A/m

Cursor:

Total = 0.08671 A/m

H Category: M4

Location: 25, -25, 8.7 mm



Plot E17

Date/Time: 10/15/2013 3:31:15 PM

Test Laboratory: SGS North America

E17

DUT: Intermec Catalina Handheld PC; Type: NA; Serial: NA

Communication System: CDMA2000 (1xRTT, RC1); Communication System Band: Band Class 1 (1850.0 - 1910.0 MHz); Frequency: 1880 MHz; Communication System PAR: 5 dB; PMF: 1
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2308; ConvF(1, 1, 1); Calibrated: 12/7/2012;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn1287; Calibrated: 10/4/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1163
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

Device E-Field measurement (E-field scan for ANSI C63.19-2007 & -2011 compliance)/E Scan - ER3D: 15 mm from Probe Center to the Device/Hearing Aid

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

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 23.07 V/m; Power Drift = -0.01 dB

PMR calibrated. Calibrated PMF = 1.000 is applied.

E-field emissions = 23.32 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 21.48 V/m	Grid 2 M4 19.95 V/m	Grid 3 M4 21.26 V/m
Grid 4 M4 22.76 V/m	Grid 5 M4 23.32 V/m	Grid 6 M4 23.04 V/m
Grid 7 M4 30.15 V/m	Grid 8 M4 30.29 V/m	Grid 9 M4 28.16 V/m

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 = 21.46 V/m

E Category: M4

Location: 25, -25, 8.7 mm

Plot H17

Date/Time: 10/15/2013 3:10:51 PM

Test Laboratory: SGS North America

DUT: Intermec Catalina Handheld PC; Type: NA; Serial: NA

Communication System: CDMA; Communication System Band: FullSpan (0.0 - 6000.0 MHz);
 Frequency: 1880 MHz; Communication System PAR: 0 dB; PMF: 1
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6145; ; Calibrated: 12/7/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn1287; Calibrated: 10/4/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1163
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

Device H-Field measurement with H3DV6 probe (H-field scan for ANSI C63.19-2007 compliance)/H Scan - H3DV6: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
 Reference Value = 0.06600 A/m; Power Drift = 0.16 dB
 PMR not calibrated. PMF = 1.000 is applied.
 H-field emissions = 0.07064 A/m
Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

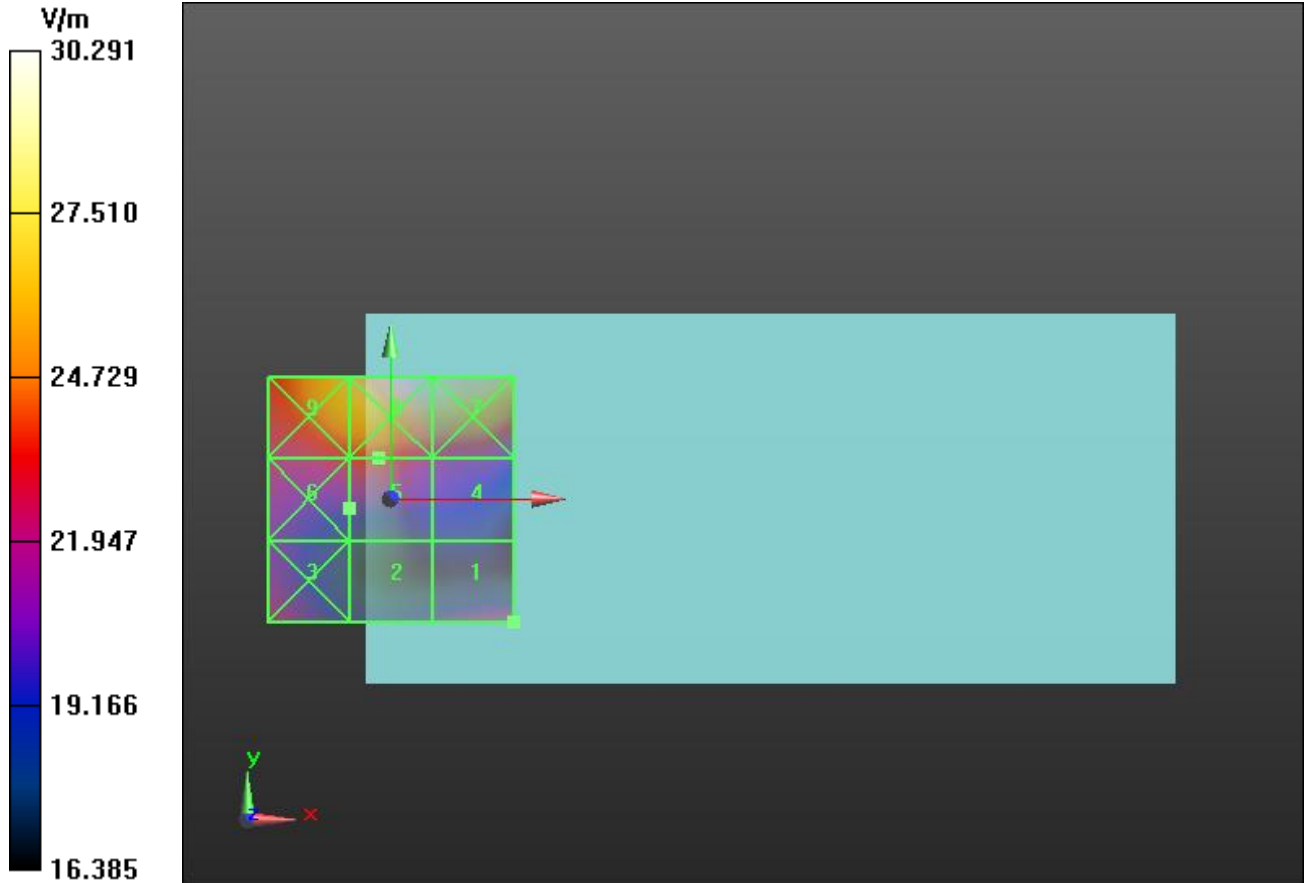
Grid 1 M4 0.063 A/m	Grid 2 M4 0.070 A/m	Grid 3 M4 0.073 A/m
Grid 4 M4 0.053 A/m	Grid 5 M4 0.071 A/m	Grid 6 M4 0.074 A/m
Grid 7 M4 0.048 A/m	Grid 8 M4 0.069 A/m	Grid 9 M4 0.072 A/m

Cursor:

Total = 0.06326 A/m

H Category: M4

Location: 25, -25, 8.7 mm



Plot E18

Date/Time: 10/15/2013 3:25:06 PM

Test Laboratory: SGS North America

E18

DUT: Intermec Catalina Handheld PC; Type: NA; Serial: NA

Communication System: CDMA2000 (1xRTT, RC1); Communication System Band: Band Class 1 (1850.0 - 1910.0 MHz); Frequency: 1908.75 MHz; Communication System PAR: 5 dB; PMF: 1
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2308; ConvF(1, 1, 1); Calibrated: 12/7/2012;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn1287; Calibrated: 10/4/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1163
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

Device E-Field measurement (E-field scan for ANSI C63.19-2007 & -2011 compliance)/E Scan - ER3D: 15 mm from Probe Center to the Device/Hearing Aid

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

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 15.87 V/m; Power Drift = -0.07 dB

PMR calibrated. Calibrated PMF = 1.000 is applied.

E-field emissions = 21.84 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 23.28 V/m	Grid 2 M4 19.59 V/m	Grid 3 M4 19.72 V/m
Grid 4 M4 16.37 V/m	Grid 5 M4 17.56 V/m	Grid 6 M4 20.24 V/m
Grid 7 M4 21.84 V/m	Grid 8 M4 21.53 V/m	Grid 9 M4 20.53 V/m

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 = 23.28 V/m

E Category: M4

Location: 25, -25, 8.7 mm

Plot H18

Date/Time: 10/15/2013 3:17:06 PM

Test Laboratory: SGS North America

DUT: Intermec Catalina Handheld PC; Type: NA; Serial: NA

Communication System: CDMA; Communication System Band: FullSpan (0.0 - 6000.0 MHz);
 Frequency: 1908.75 MHz; Communication System PAR: 0 dB; PMF: 1
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6145; ; Calibrated: 12/7/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn1287; Calibrated: 10/4/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1163
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

Device H-Field measurement with H3DV6 probe (H-field scan for ANSI C63.19-2007 compliance)/H Scan - H3DV6: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
 Reference Value = 0.06400 A/m; Power Drift = 0.04 dB
 PMR not calibrated. PMF = 1.000 is applied.
 H-field emissions = 0.06643 A/m
Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

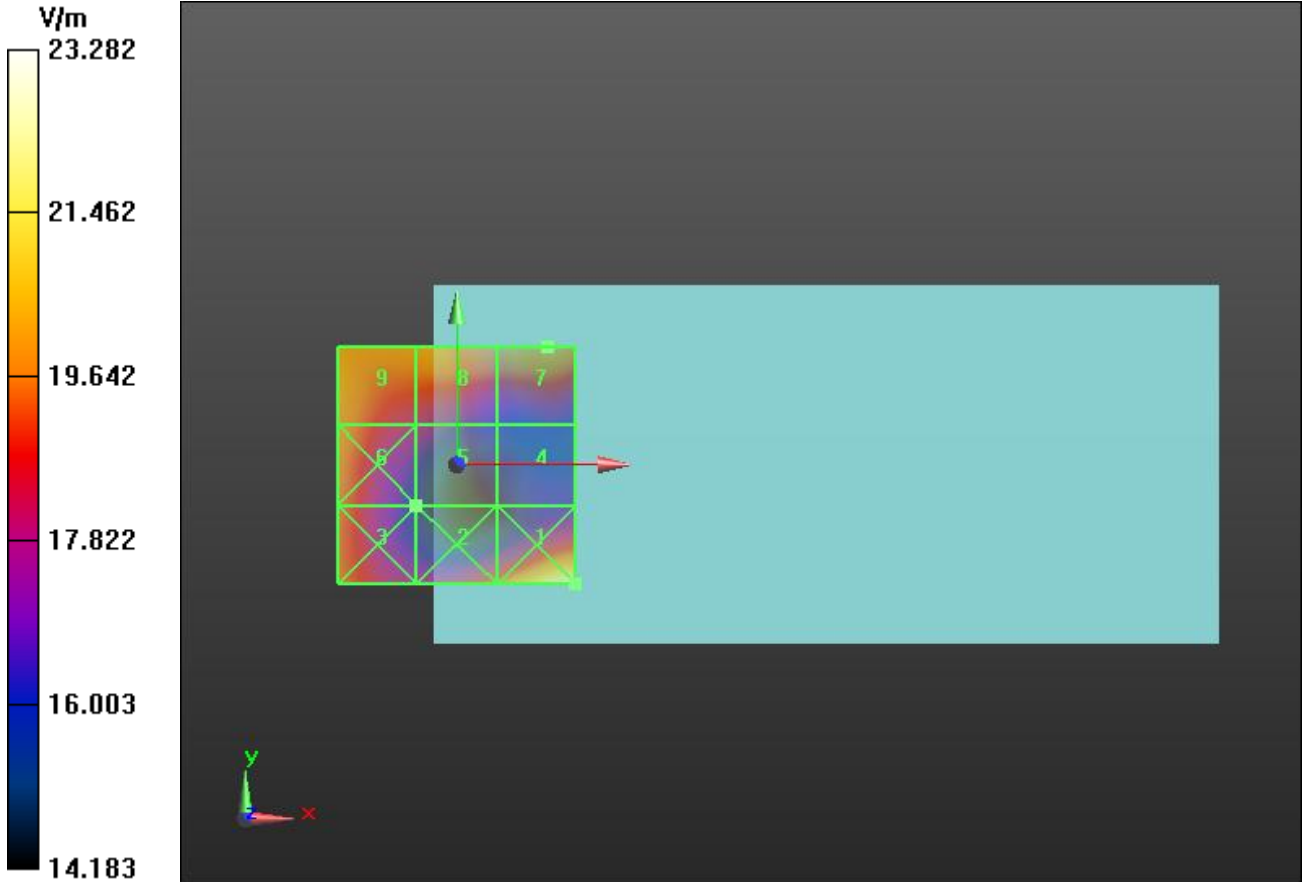
Grid 1 M4 0.061 A/m	Grid 2 M4 0.067 A/m	Grid 3 M4 0.069 A/m
Grid 4 M4 0.049 A/m	Grid 5 M4 0.066 A/m	Grid 6 M4 0.069 A/m
Grid 7 M4 0.040 A/m	Grid 8 M4 0.063 A/m	Grid 9 M4 0.066 A/m

Cursor:

Total = 0.06056 A/m

H Category: M4

Location: 25, -25, 8.7 mm



7 REVISION HISTORY

Revision Level	Description of changes	Revision Date
0	Initial release	21 Apr 2014
1	Removed referenced to 2007 version of standard	20 Jun 2014