

APPENDIX A. HAC TEST PLOTS

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.5 °C /128

Test Date Mar. 3, 2010

DUT: P2020; Type: Bar; Serial: #1

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³
 Phantom section: E Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2009-09-18
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

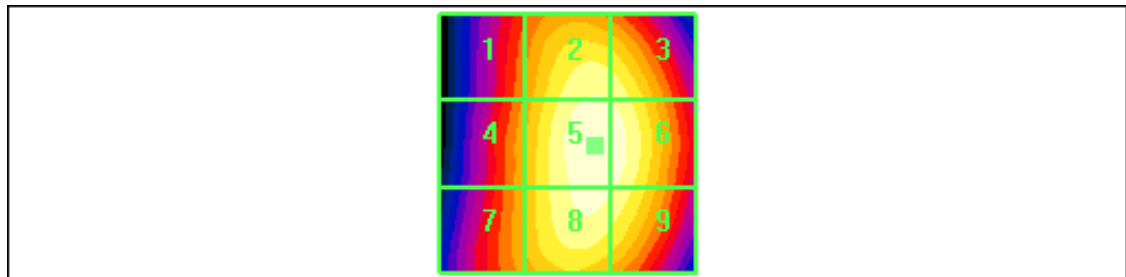
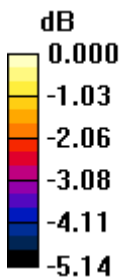
Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 147.0 V/m
 Probe Modulation Factor = 2.69
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 74.2 V/m; Power Drift = 0.032 dB
Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
121.6 M4	142.1 M4	141.2 M4
Grid 4	Grid 5	Grid 6
125.2 M4	147.0 M4	145.5 M4
Grid 7	Grid 8	Grid 9
125.9 M4	144.2 M4	142.2 M4

Cursor:

Total = 147.0 V/m
 E Category: M4
 Location: -5.5, 0.5, 369.9 mm



0 dB = 147.0V/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature / Channel 21.5 °C /190
 Test Date Mar. 3, 2010

DUT: P2020; Type: Bar; Serial: #1

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³
 Phantom section: E Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2009-09-18
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

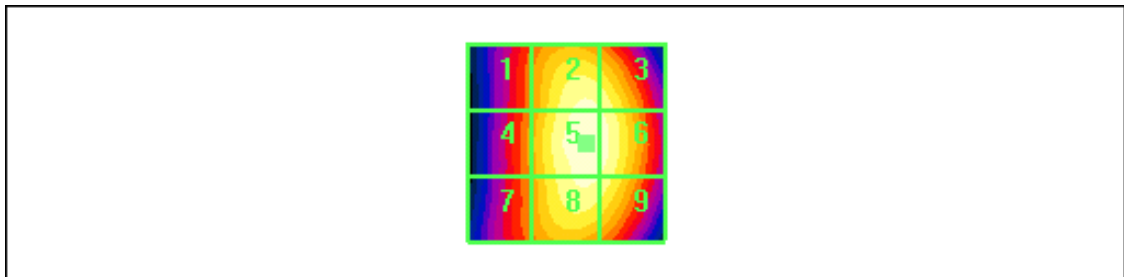
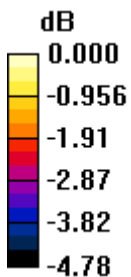
Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 134.2 V/m
 Probe Modulation Factor = 2.69
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 67.8 V/m; Power Drift = -0.014 dB
Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
111.9 M4	131.2 M4	130.0 M4
Grid 4	Grid 5	Grid 6
114.5 M4	134.2 M4	132.4 M4
Grid 7	Grid 8	Grid 9
113.4 M4	130.9 M4	129.4 M4

Cursor:

Total = 134.2 V/m
 E Category: M4
 Location: -5, 0, 369.9 mm



0 dB = 134.2V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.5 °C /251

Test Date Mar. 3, 2010

DUT: P2020; Type: Bar; Serial: #1

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³
 Phantom section: E Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2009-09-18
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

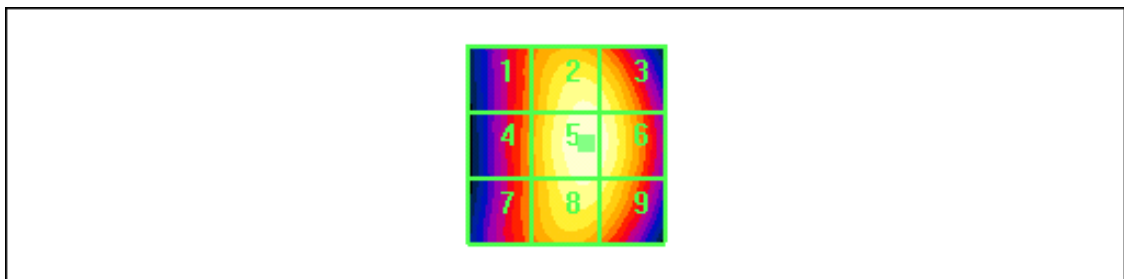
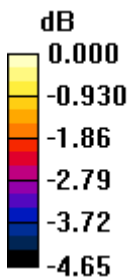
Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 113.8 V/m
 Probe Modulation Factor = 2.69
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 57.6 V/m; Power Drift = -0.069 dB
Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
96.1 M4	111.3 M4	110.1 M4
Grid 4	Grid 5	Grid 6
97.7 M4	113.8 M4	112.3 M4
Grid 7	Grid 8	Grid 9
96.5 M4	110.6 M4	108.8 M4

Cursor:

Total = 113.8 V/m
 E Category: M4
 Location: -5, -0.5, 369.9 mm



0 dB = 113.8V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.5 °C /512

Test Date Mar. 3, 2010

DUT: P2020; Type: Bar; Serial: #1

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³
 Phantom section: E Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2009-09-18
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

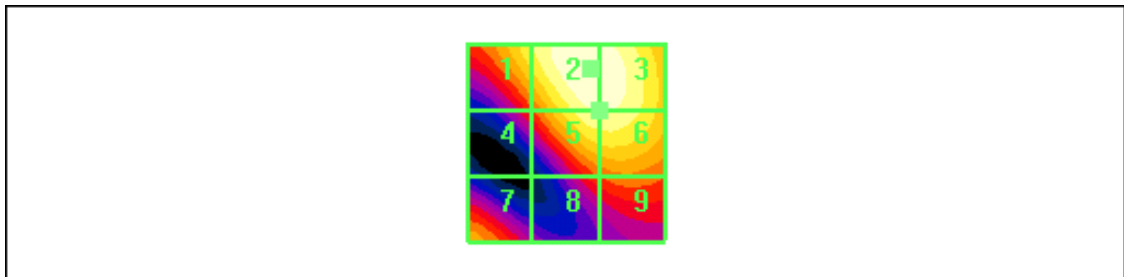
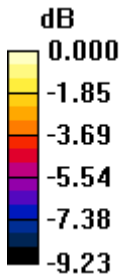
Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 80.6 V/m
 Probe Modulation Factor = 2.60
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 29.1 V/m; Power Drift = 0.042 dB
Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
69.9 M3	80.6 M3	80.3 M3
Grid 4	Grid 5	Grid 6
52.2 M3	75.7 M3	75.8 M3
Grid 7	Grid 8	Grid 9
60.9 M3	52.5 M3	55.6 M3

Cursor:

Total = 80.6 V/m
 E Category: M3
 Location: -6.5, -19, 369.9 mm



0 dB = 80.6V/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature / Channel 21.5 °C /661
 Test Date Mar. 3, 2010

DUT: P2020; Type: Bar; Serial: #1

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³
 Phantom section: E Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

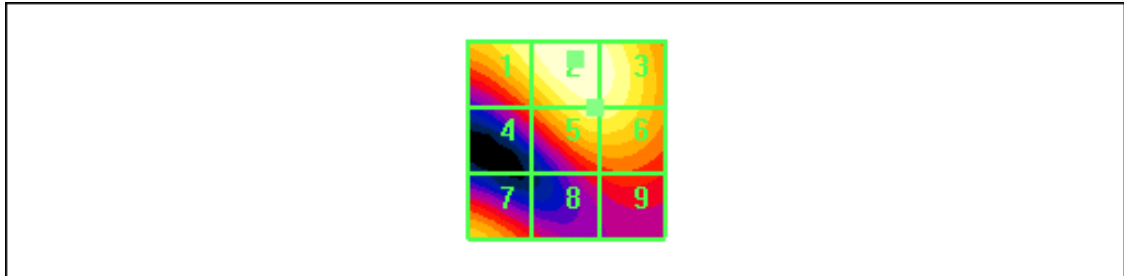
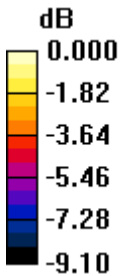
- DASY4 Configuration:
- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE4 Sn869; Calibrated: 2009-09-18
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):
 Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 80.1 V/m
 Probe Modulation Factor = 2.60
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 28.3 V/m; Power Drift = -0.013 dB
Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
74.9 M3	80.1 M3	78.1 M3
Grid 4	Grid 5	Grid 6
55.1 M3	73.2 M3	73.1 M3
Grid 7	Grid 8	Grid 9
65.0 M3	49.9 M3	52.0 M3

Cursor:
 Total = 80.1 V/m
 E Category: M3
 Location: -2.5, -20.5, 369.9 mm



0 dB = 80.1V/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature / Channel 21.5 °C /810
 Test Date Mar. 3, 2010

DUT: P2020; Type: Bar; Serial: #1

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³
 Phantom section: E Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2009-09-18
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

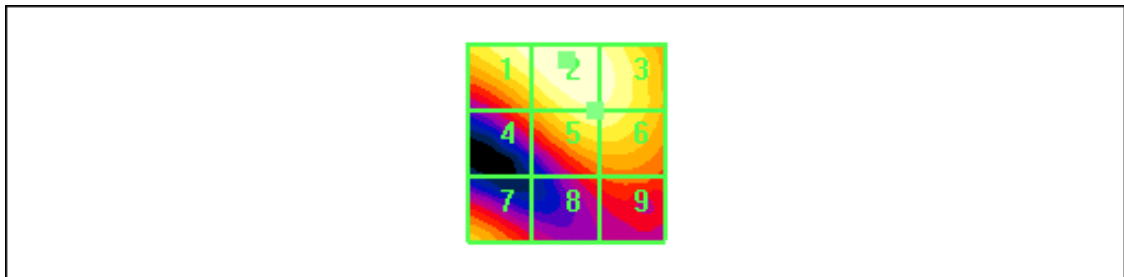
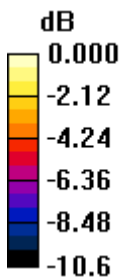
Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 72.0 V/m
 Probe Modulation Factor = 2.60
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 25.9 V/m; Power Drift = 0.052 dB
Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
69.3 M3	72.0 M3	69.7 M3
Grid 4	Grid 5	Grid 6
50.4 M3	65.8 M3	65.7 M3
Grid 7	Grid 8	Grid 9
55.1 M3	43.8 M4	46.1 M4

Cursor:

Total = 72.0 V/m
 E Category: M3
 Location: -0.5, -21, 369.9 mm



0 dB = 72.0V/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature / Channel 21.5 °C /128
 Test Date Mar. 3, 2010

DUT: P2020; Type: Bar; Serial: #1

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³
 Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

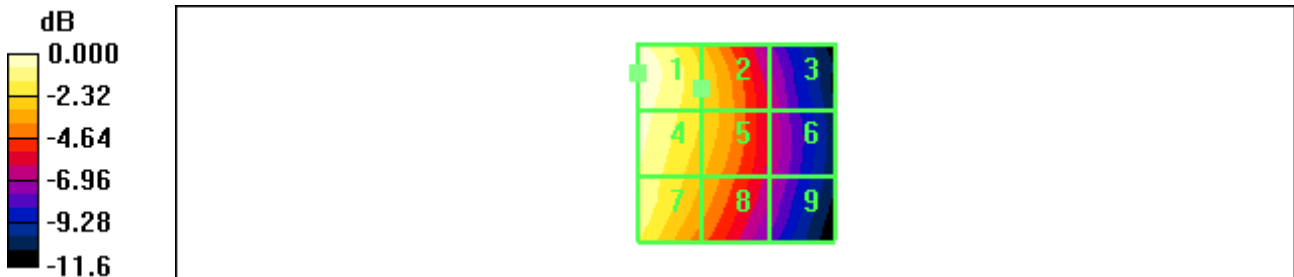
DASY4 Configuration:
 - Probe: H3DV6 - SN6101; ; Calibrated: 2009-05-22
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE4 Sn869; Calibrated: 2009-09-18
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):
 Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 0.215 A/m
 Probe Modulation Factor = 1.93
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 0.075 A/m; Power Drift = 0.038 dB
Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.215 M4	0.166 M4	0.105 M4
Grid 4	Grid 5	Grid 6
0.208 M4	0.164 M4	0.106 M4
Grid 7	Grid 8	Grid 9
0.198 M4	0.152 M4	0.102 M4

Cursor:
 Total = 0.215 A/m
 H Category: M4
 Location: 25, -18, 369.4 mm



0 dB = 0.215A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.5 °C /190

Test Date Mar. 3, 2010

DUT: P2020; Type: Bar; Serial: #1

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

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

Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ; Calibrated: 2009-05-22
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2009-09-18
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.198 A/m

Probe Modulation Factor = 1.93

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.069 A/m; Power Drift = -0.051 dB

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

Peak H-field in A/m

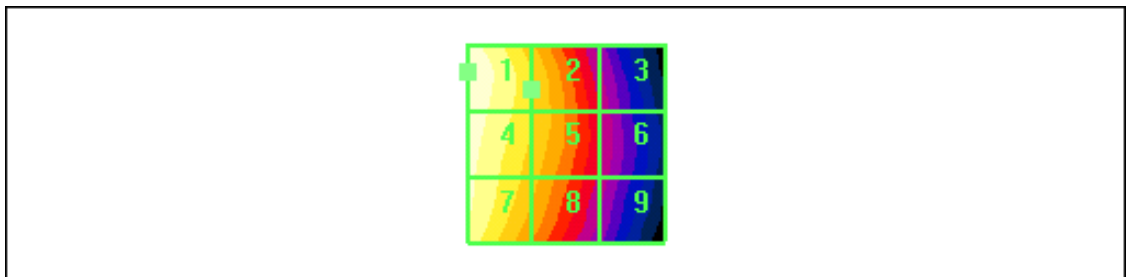
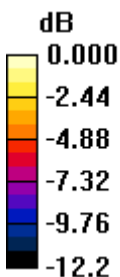
Grid 1 0.198 M4	Grid 2 0.152 M4	Grid 3 0.094 M4
Grid 4 0.193 M4	Grid 5 0.151 M4	Grid 6 0.096 M4
Grid 7 0.186 M4	Grid 8 0.141 M4	Grid 9 0.092 M4

Cursor:

Total = 0.198 A/m

H Category: M4

Location: 25, -18.5, 369.4 mm



0 dB = 0.198A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.5 °C /251

Test Date Mar. 3, 2010

DUT: P2020; Type: Bar; Serial: #1

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

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

Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ; Calibrated: 2009-05-22
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2009-09-18
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.162 A/m

Probe Modulation Factor = 1.93

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.056 A/m; Power Drift = -0.050 dB

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

Peak H-field in A/m

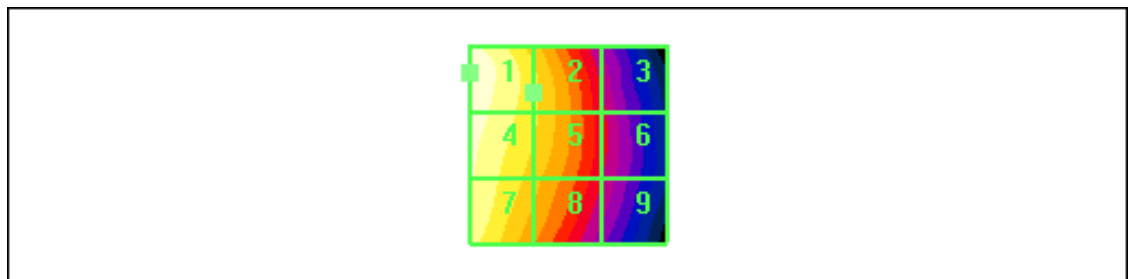
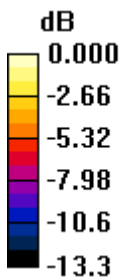
Grid 1 0.162 M4	Grid 2 0.123 M4	Grid 3 0.075 M4
Grid 4 0.156 M4	Grid 5 0.122 M4	Grid 6 0.076 M4
Grid 7 0.149 M4	Grid 8 0.113 M4	Grid 9 0.072 M4

Cursor:

Total = 0.162 A/m

H Category: M4

Location: 25, -18.5, 369.4 mm



0 dB = 0.162A/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature / Channel 21.5 °C /512
 Test Date Mar. 3, 2010

DUT: P2020; Type: Bar; Serial: #1

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³
 Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

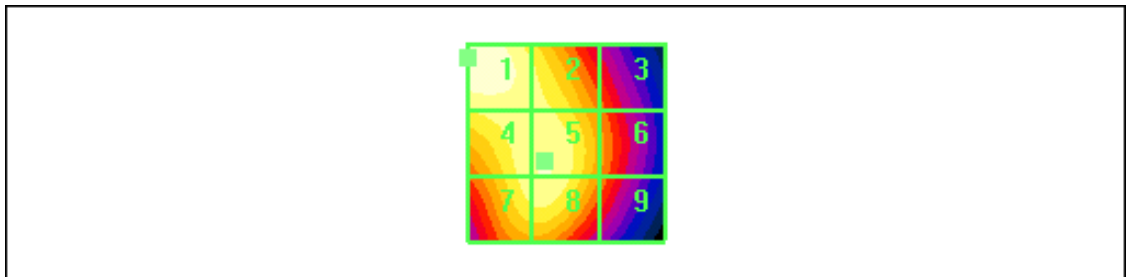
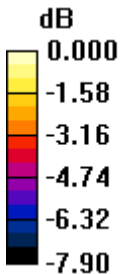
- DASY4 Configuration:
- Probe: H3DV6 - SN6101; ; Calibrated: 2009-05-22
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE4 Sn869; Calibrated: 2009-09-18
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):
 Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 0.188 A/m
 Probe Modulation Factor = 2.25
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 0.088 A/m; Power Drift = 0.007 dB
Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.188 M3	0.171 M3	0.136 M4
Grid 4	Grid 5	Grid 6
0.175 M3	0.178 M3	0.144 M3
Grid 7	Grid 8	Grid 9
0.174 M3	0.177 M3	0.139 M4

Cursor:
 Total = 0.188 A/m
 H Category: M3
 Location: 25, -21.5, 369.4 mm



0 dB = 0.188A/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature / Channel 21.5 °C /661
 Test Date Mar. 3, 2010

DUT: P2020; Type: Bar; Serial: #1

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³
 Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

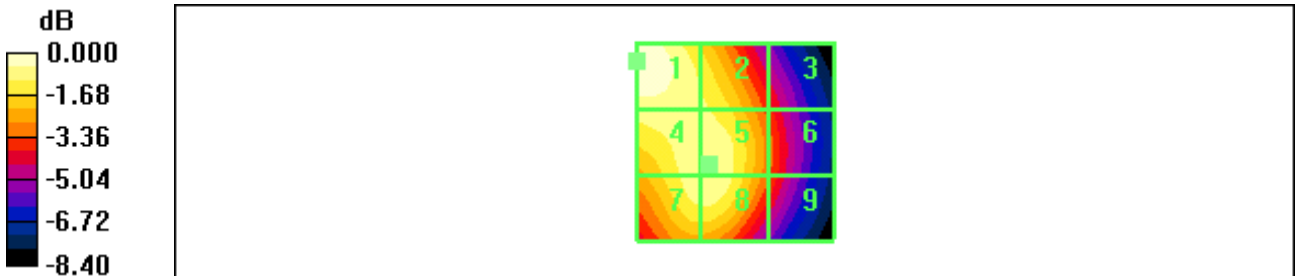
DASY4 Configuration:
 - Probe: H3DV6 - SN6101; ; Calibrated: 2009-05-22
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE4 Sn869; Calibrated: 2009-09-18
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):
 Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 0.191 A/m
 Probe Modulation Factor = 2.25
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 0.086 A/m; Power Drift = 0.012 dB
Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.191 M3	0.170 M3	0.126 M4
Grid 4	Grid 5	Grid 6
0.178 M3	0.179 M3	0.135 M4
Grid 7	Grid 8	Grid 9
0.177 M3	0.178 M3	0.131 M4

Cursor:
 Total = 0.191 A/m
 H Category: M3
 Location: 25, -20.5, 369.4 mm



0 dB = 0.191A/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature / Channel 21.5 °C /810
 Test Date Mar. 3, 2010

DUT: P2020; Type: Bar; Serial: #1

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³
 Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

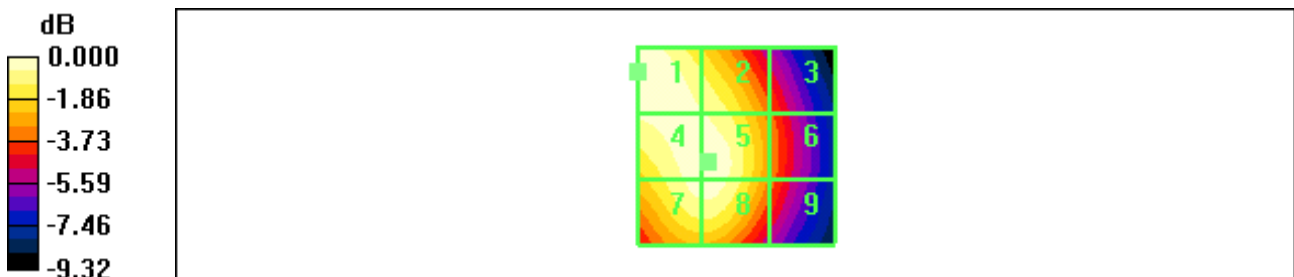
DASY4 Configuration:
 - Probe: H3DV6 - SN6101; ; Calibrated: 2009-05-22
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE4 Sn869; Calibrated: 2009-09-18
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):
 Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 0.175 A/m
 Probe Modulation Factor = 2.25
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 0.082 A/m; Power Drift = 0.010 dB
Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.175 M3	0.164 M3	0.118 M4
Grid 4	Grid 5	Grid 6
0.170 M3	0.170 M3	0.125 M4
Grid 7	Grid 8	Grid 9
0.169 M3	0.169 M3	0.121 M4

Cursor:
 Total = 0.175 A/m
 H Category: M3
 Location: 25, -19, 369.4 mm



0 dB = 0.175A/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature / Channel 21.5 °C /4132
 Test Date Mar. 3, 2010

DUT: P2020; Type: Bar; Serial: #1

Communication System: WCDMA850; 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 Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

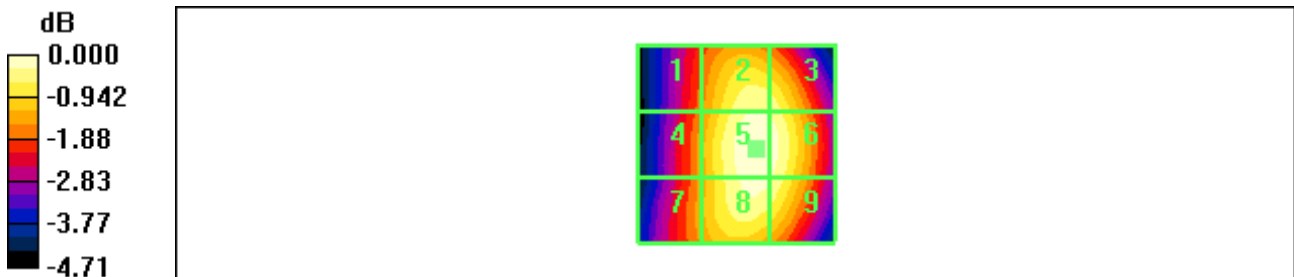
DASY4 Configuration:
 - Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE4 Sn869; Calibrated: 2009-09-18
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):
 Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 22.6 V/m
 Probe Modulation Factor = 0.772
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 39.5 V/m; Power Drift = 0.034 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
18.8 M4	21.9 M4	21.7 M4
Grid 4	Grid 5	Grid 6
19.4 M4	22.6 M4	22.3 M4
Grid 7	Grid 8	Grid 9
19.4 M4	22.2 M4	21.9 M4

Cursor:
 Total = 22.6 V/m
 E Category: M4
 Location: -5.5, 1, 369.9 mm



0 dB = 22.6V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.5 °C /4183

Test Date Mar. 3, 2010

DUT: P2020; Type: Bar; Serial: #1

Communication System: WCDMA850; 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 Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2009-09-18
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 27.6 V/m
 Probe Modulation Factor = 0.772
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 48.5 V/m; Power Drift = 0.087 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

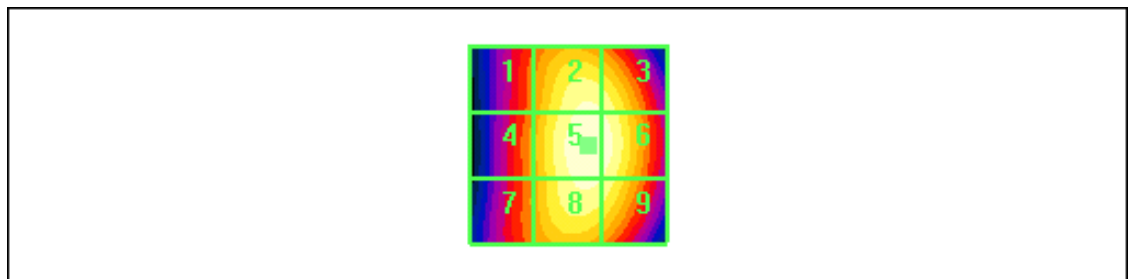
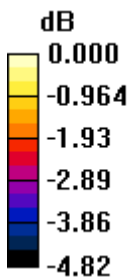
Grid 1	Grid 2	Grid 3
23.1 M4	27.0 M4	26.7 M4
Grid 4	Grid 5	Grid 6
23.6 M4	27.6 M4	27.4 M4
Grid 7	Grid 8	Grid 9
23.4 M4	26.9 M4	26.6 M4

Cursor:

Total = 27.6 V/m

E Category: M4

Location: -5.5, 0, 369.9 mm



0 dB = 27.6V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.5 °C /4233

Test Date Mar. 3, 2010

DUT: P2020; Type: Bar; Serial: #1

Communication System: WCDMA850; 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 Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2009-09-18
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 22.0 V/m
 Probe Modulation Factor = 0.772
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 37.0 V/m; Power Drift = 0.222 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

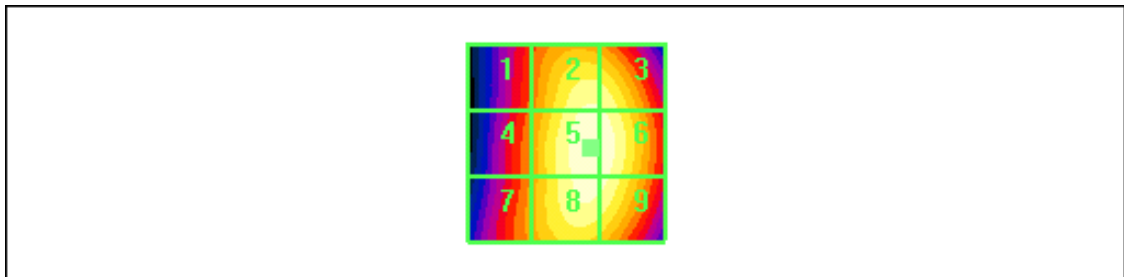
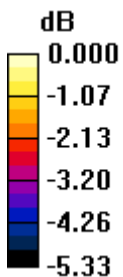
Grid 1	Grid 2	Grid 3
17.7 M4	21.3 M4	21.3 M4
Grid 4	Grid 5	Grid 6
18.2 M4	22.0 M4	21.9 M4
Grid 7	Grid 8	Grid 9
18.5 M4	21.7 M4	21.5 M4

Cursor:

Total = 22.0 V/m

E Category: M4

Location: -6.5, 1, 369.9 mm



0 dB = 22.0V/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature / Channel 21.5 °C /9262
 Test Date Mar. 3, 2010

DUT: P2020; Type: Bar; Serial: #1

Communication System: WCDMA1900; 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 Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2009-09-18
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

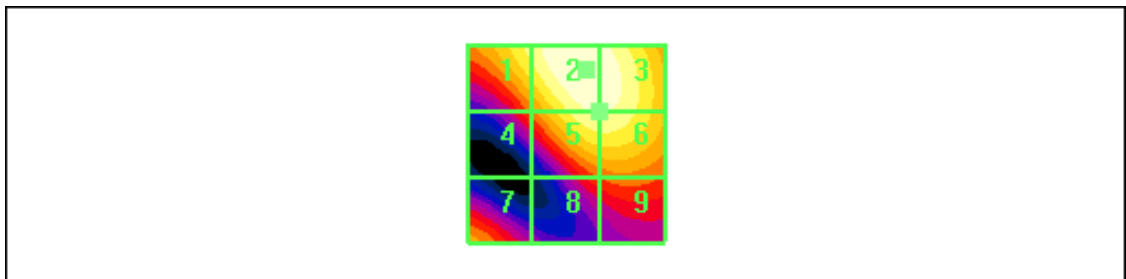
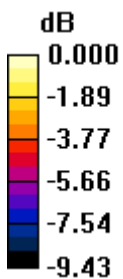
Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 30.5 V/m
 Probe Modulation Factor = 0.841
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 35.7 V/m; Power Drift = -0.129 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
27.4 M4	30.5 M4	30.2 M4
Grid 4	Grid 5	Grid 6
20.6 M4	28.6 M4	28.6 M4
Grid 7	Grid 8	Grid 9
22.3 M4	19.7 M4	20.7 M4

Cursor:

Total = 30.5 V/m
 E Category: M4
 Location: -5, -19, 369.9 mm



0 dB = 30.5V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.5 °C /9400

Test Date Mar. 3, 2010

DUT: P2020; Type: Bar; Serial: #1

Communication System: WCDMA1900; Frequency: 1880 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 SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2009-09-18
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

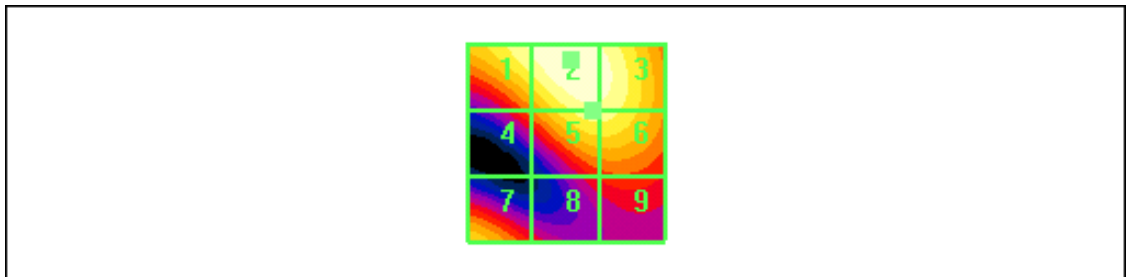
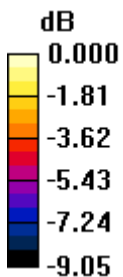
Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 30.3 V/m
 Probe Modulation Factor = 0.841
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 33.5 V/m; Power Drift = -0.063 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
28.6 M4	30.3 M4	29.4 M4
Grid 4	Grid 5	Grid 6
21.2 M4	27.6 M4	27.6 M4
Grid 7	Grid 8	Grid 9
24.8 M4	19.0 M4	19.7 M4

Cursor:

Total = 30.3 V/m
 E Category: M4
 Location: -1.5, -21, 369.9 mm



0 dB = 30.3V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.5 °C /9538

Test Date Mar. 3, 2010

DUT: P2020; Type: Bar; Serial: #1

Communication System: WCDMA1900; 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 Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2009-09-18
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

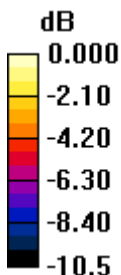
Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 31.3 V/m
 Probe Modulation Factor = 0.841
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 35.8 V/m; Power Drift = -0.172 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
29.7 M4	31.3 M4	30.3 M4
Grid 4	Grid 5	Grid 6
22.0 M4	28.5 M4	28.4 M4
Grid 7	Grid 8	Grid 9
23.5 M4	18.4 M4	19.1 M4

Cursor:

Total = 31.3 V/m
 E Category: M4
 Location: -1.5, -20.5, 369.9 mm



0 dB = 31.3V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.5 °C /4132

Test Date Mar. 3, 2010

DUT: P2020; Type: Bar; Serial: #1

Communication System: WCDMA850; 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 SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

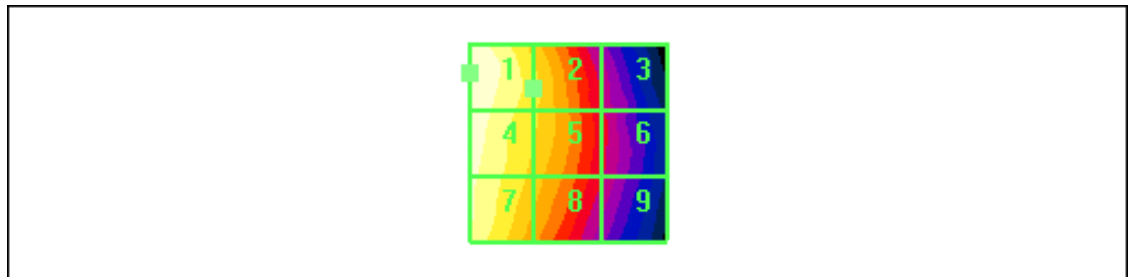
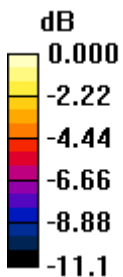
- DASY4 Configuration:
- Probe: H3DV6 - SN6101; ; Calibrated: 2009-05-22
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE4 Sn869; Calibrated: 2009-09-18
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):
 Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 0.057 A/m
 Probe Modulation Factor = 0.829
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 0.048 A/m; Power Drift = 0.152 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.057 M4	0.046 M4	0.029 M4
Grid 4	Grid 5	Grid 6
0.055 M4	0.045 M4	0.030 M4
Grid 7	Grid 8	Grid 9
0.054 M4	0.043 M4	0.029 M4

Cursor:
 Total = 0.057 A/m
 H Category: M4
 Location: 25, -18, 369.4 mm



0 dB = 0.057A/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature / Channel 21.5 °C /4183
 Test Date Mar. 3, 2010

DUT: P2020; Type: Bar; Serial: #1

Communication System: WCDMA850; 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 SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

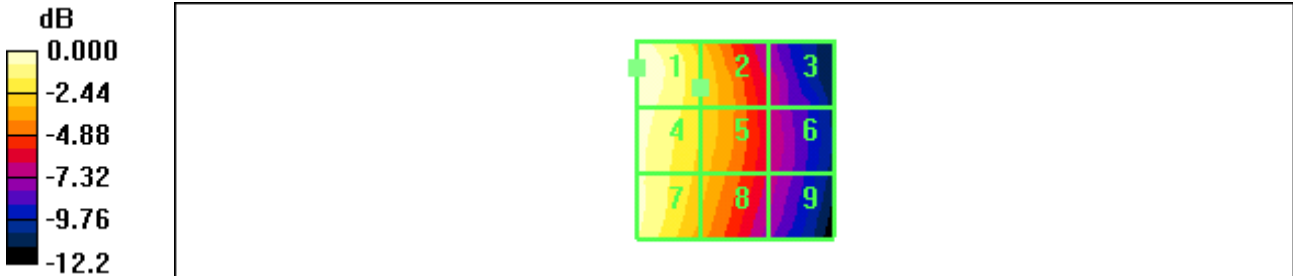
DASY4 Configuration:
 - Probe: H3DV6 - SN6101; ; Calibrated: 2009-05-22
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE4 Sn869; Calibrated: 2009-09-18
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):
 Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 0.077 A/m
 Probe Modulation Factor = 0.829
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 0.063 A/m; Power Drift = 0.035 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.077 M4	0.059 M4	0.037 M4
Grid 4	Grid 5	Grid 6
0.074 M4	0.059 M4	0.038 M4
Grid 7	Grid 8	Grid 9
0.072 M4	0.056 M4	0.036 M4

Cursor:
 Total = 0.077 A/m
 H Category: M4
 Location: 25, -18.5, 369.4 mm



0 dB = 0.077A/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature / Channel 21.5 °C /4233
 Test Date Mar. 3, 2010

DUT: P2020; Type: Bar; Serial: #1

Communication System: WCDMA850; 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 SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

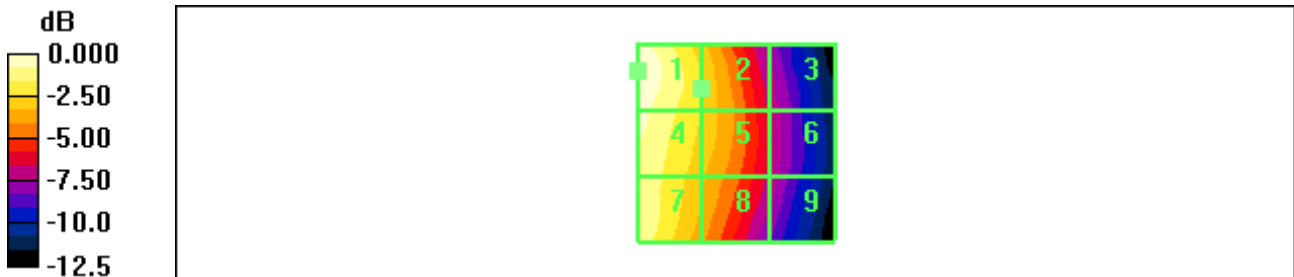
DASY4 Configuration:
 - Probe: H3DV6 - SN6101; ; Calibrated: 2009-05-22
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE4 Sn869; Calibrated: 2009-09-18
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):
 Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 0.082 A/m
 Probe Modulation Factor = 0.829
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 0.065 A/m; Power Drift = 0.004 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.082 M4	Grid 2 0.062 M4	Grid 3 0.038 M4
Grid 4 0.078 M4	Grid 5 0.061 M4	Grid 6 0.039 M4
Grid 7 0.075 M4	Grid 8 0.057 M4	Grid 9 0.037 M4

Cursor:
 Total = 0.082 A/m
 H Category: M4
 Location: 25, -18.5, 369.4 mm



0 dB = 0.082A/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature / Channel 21.5 °C /9262
 Test Date Mar. 3, 2010

DUT: P2020; Type: Bar; Serial: #1

Communication System: WCDMA1900; 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 SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

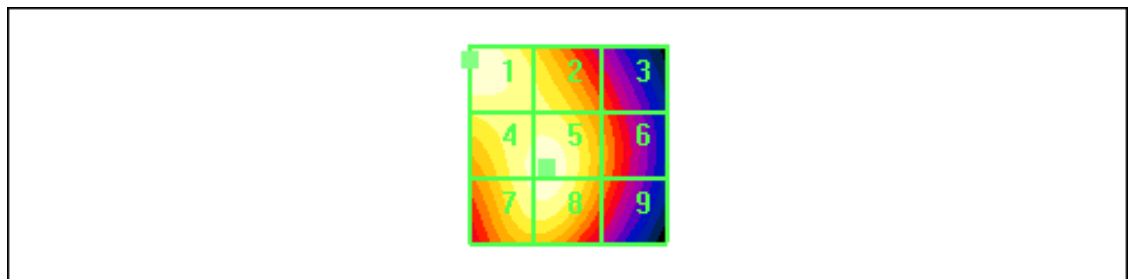
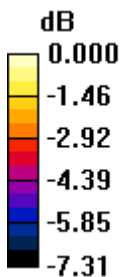
DASY4 Configuration:
 - Probe: H3DV6 - SN6101; ; Calibrated: 2009-05-22
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE4 Sn869; Calibrated: 2009-09-18
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):
 Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 0.077 A/m
 Probe Modulation Factor = 0.820
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 0.100 A/m; Power Drift = -0.134 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.077 M4	0.071 M4	0.057 M4
Grid 4	Grid 5	Grid 6
0.074 M4	0.075 M4	0.061 M4
Grid 7	Grid 8	Grid 9
0.074 M4	0.075 M4	0.059 M4

Cursor:
 Total = 0.077 A/m
 H Category: M4
 Location: 25, -21.5, 369.4 mm



0 dB = 0.077A/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature / Channel 21.5 °C /9400
 Test Date Mar. 3, 2010

DUT: P2020; Type: Bar; Serial: #1

Communication System: WCDMA1900; 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 SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

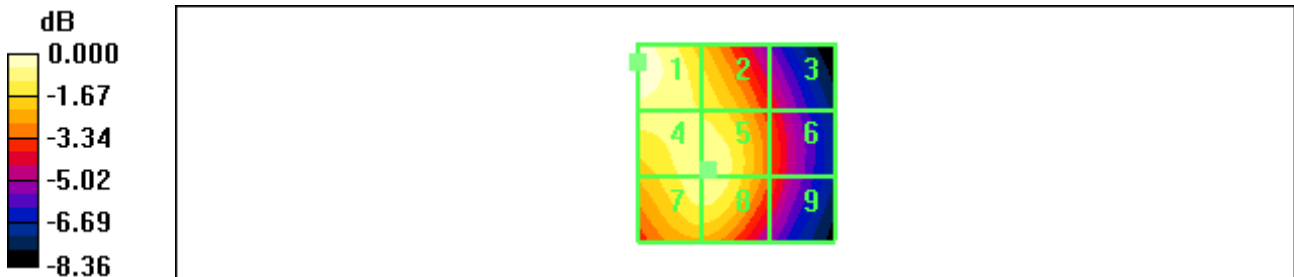
DASY4 Configuration:
 - Probe: H3DV6 - SN6101; ; Calibrated: 2009-05-22
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE4 Sn869; Calibrated: 2009-09-18
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):
 Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 0.085 A/m
 Probe Modulation Factor = 0.820
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 0.111 A/m; Power Drift = -0.897 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.085 M4	Grid 2 0.074 M4	Grid 3 0.055 M4
Grid 4 0.078 M4	Grid 5 0.078 M4	Grid 6 0.059 M4
Grid 7 0.078 M4	Grid 8 0.078 M4	Grid 9 0.058 M4

Cursor:
 Total = 0.085 A/m
 H Category: M4
 Location: 25, -20.5, 369.4 mm



0 dB = 0.085A/m

