

APPENDIX A. HAC TEST PLOTS

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.4°C /128

Test Date Nov. 7, 201

DUT: P6020; 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 Dipole Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2011-05-16

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn869; Calibrated: 2011-09-22

- 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 = 149.4 V/m

Probe Modulation Factor = 2.67

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 74.0 V/m; Power Drift = -0.013 dB

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

Peak E-field in V/m

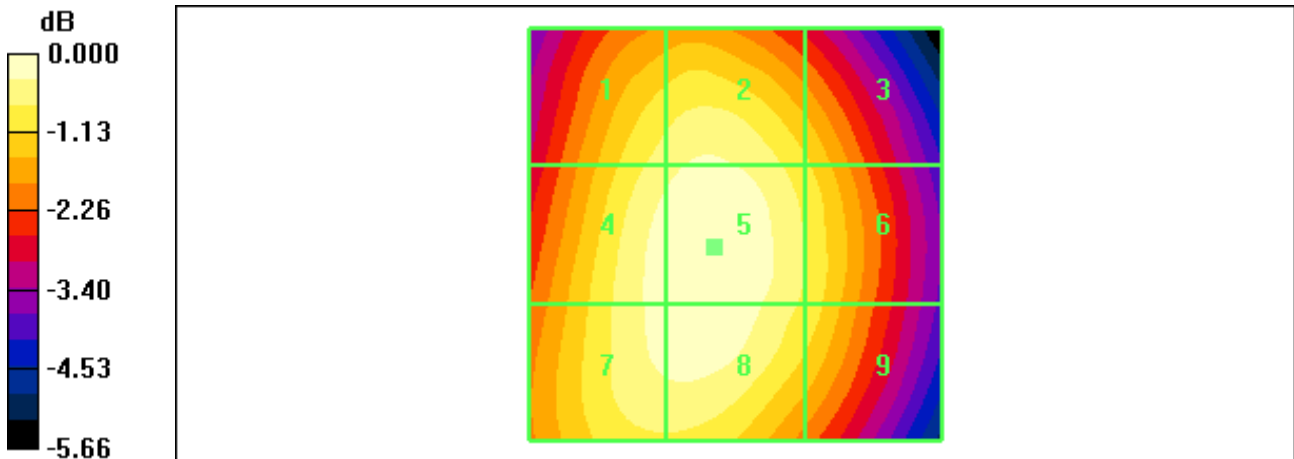
Grid 1	Grid 2	Grid 3
140.4 M4	144.2 M4	132.3 M4
Grid 4	Grid 5	Grid 6
146.4 M4	149.4 M4	137.0 M4
Grid 7	Grid 8	Grid 9
146.0 M4	148.0 M4	135.4 M4

Cursor:

Total = 149.4 V/m

E Category: M4

Location: 2.5, 1.5, 370.9 mm



0 dB = 149.4V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.4°C /190

Test Date Nov. 7, 201

DUT: P6020; 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 Dipole Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2011-05-16

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn869; Calibrated: 2011-09-22

- 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 = 161.2 V/m

Probe Modulation Factor = 2.67

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 80.6 V/m; Power Drift = -0.006 dB

Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak E-field in V/m

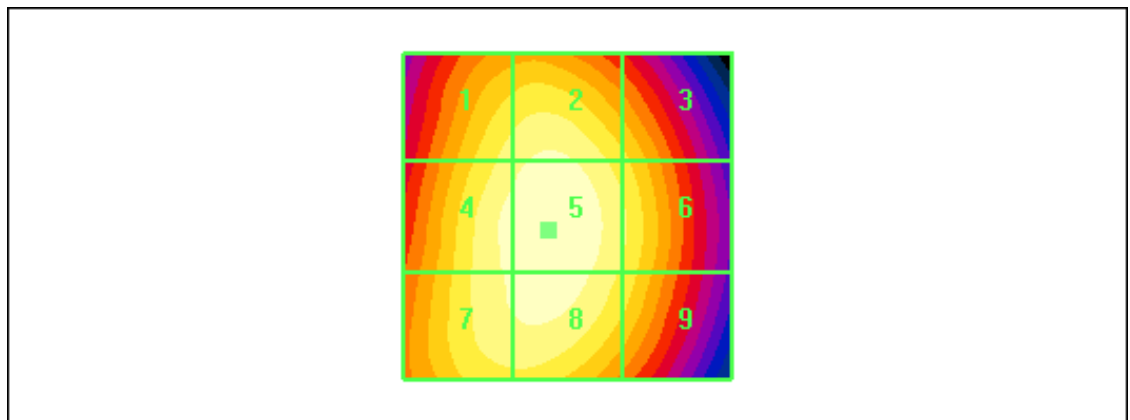
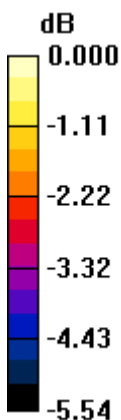
Grid 1	Grid 2	Grid 3
151.7 M3	156.1 M3	144.0 M4
Grid 4	Grid 5	Grid 6
157.4 M3	161.2 M3	149.2 M4
Grid 7	Grid 8	Grid 9
156.3 M3	160.0 M3	146.7 M4

Cursor:

Total = 161.2 V/m

E Category: M3

Location: 3, 2, 370.9 mm



0 dB = 161.2V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.4°C /251

Test Date Nov. 7, 201

DUT: P6020; 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 Dipole Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2011-05-16

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn869; Calibrated: 2011-09-22

- 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 = 130.1 V/m

Probe Modulation Factor = 2.67

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 64.3 V/m; Power Drift = 0.007 dB

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

Peak E-field in V/m

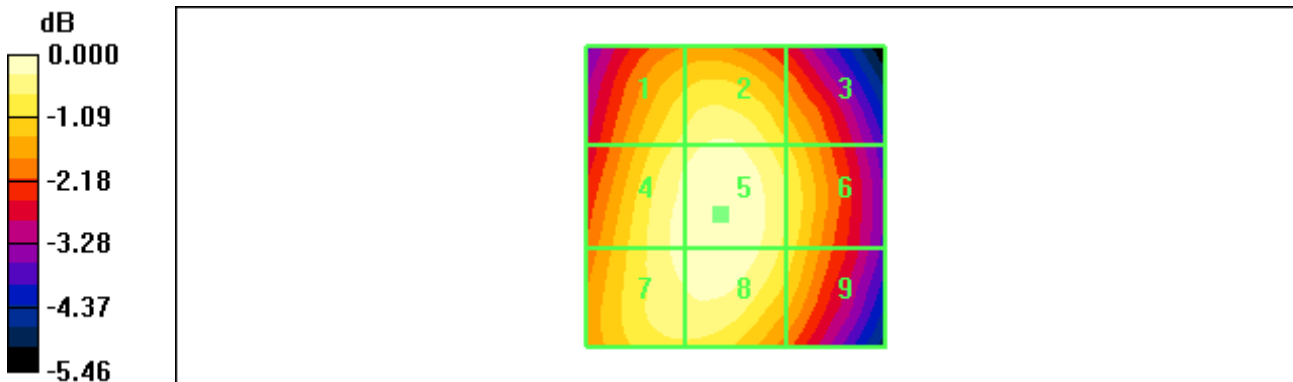
Grid 1	Grid 2	Grid 3
121.8 M4	125.8 M4	115.4 M4
Grid 4	Grid 5	Grid 6
127.3 M4	130.1 M4	119.9 M4
Grid 7	Grid 8	Grid 9
126.9 M4	129.0 M4	117.9 M4

Cursor:

Total = 130.1 V/m

E Category: M4

Location: 2.5, 3, 370.9 mm



Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.4°C /512

Test Date Nov. 7, 201

DUT: P6020; 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 Dipole Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2011-05-16

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn869; Calibrated: 2011-09-22

- 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 = 68.4 V/m

Probe Modulation Factor = 2.49

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 20.7 V/m; Power Drift = -0.006 dB

Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak E-field in V/m

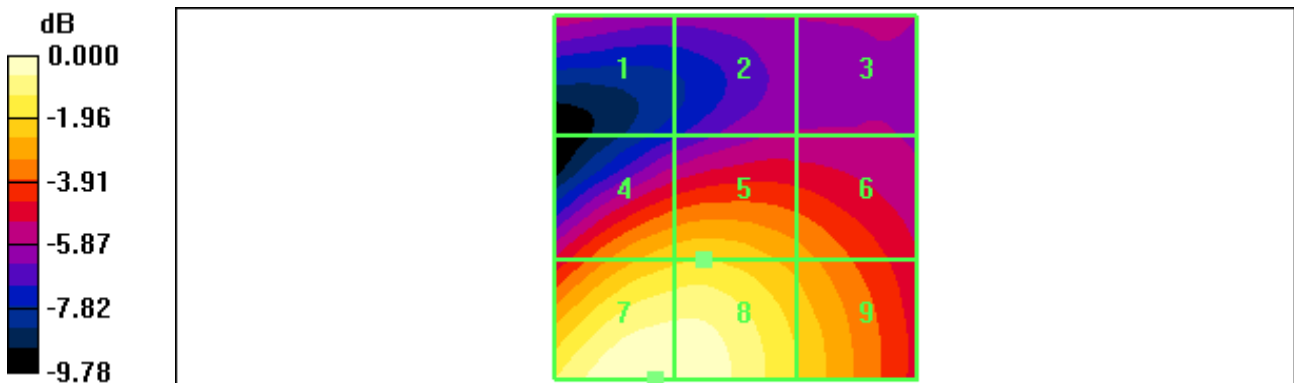
Grid 1	Grid 2	Grid 3
36.6 M4	35.3 M4	35.4 M4
Grid 4	Grid 5	Grid 6
53.5 M3	54.5 M3	48.9 M3
Grid 7	Grid 8	Grid 9
68.4 M3	68.1 M3	54.6 M3

Cursor:

Total = 68.4 V/m

E Category: M3

Location: 11, 25, 370.9 mm



0 dB = 68.4V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.4°C /661

Test Date Nov. 7, 201

DUT: P6020; 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 Dipole Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2011-05-16

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn869; Calibrated: 2011-09-22

- 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 = 70.0 V/m

Probe Modulation Factor = 2.49

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 21.9 V/m; Power Drift = -0.062 dB

Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak E-field in V/m

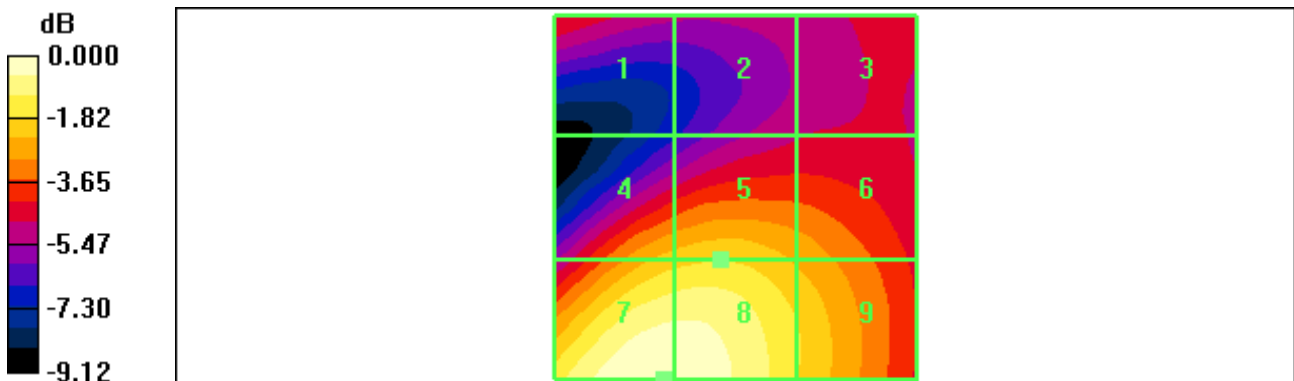
Grid 1	Grid 2	Grid 3
43.4 M4	39.8 M4	40.6 M4
Grid 4	Grid 5	Grid 6
54.8 M3	56.4 M3	52.3 M3
Grid 7	Grid 8	Grid 9
70.0 M3	69.8 M3	57.3 M3

Cursor:

Total = 70.0 V/m

E Category: M3

Location: 10, 25, 370.9 mm



0 dB = 70.0V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.4°C /810

Test Date Nov. 7, 201

DUT: P6020; 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 Dipole Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2011-05-16

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn869; Calibrated: 2011-09-22

- 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 = 68.9 V/m

Probe Modulation Factor = 2.49

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 20.4 V/m; Power Drift = 0.058 dB

Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak E-field in V/m

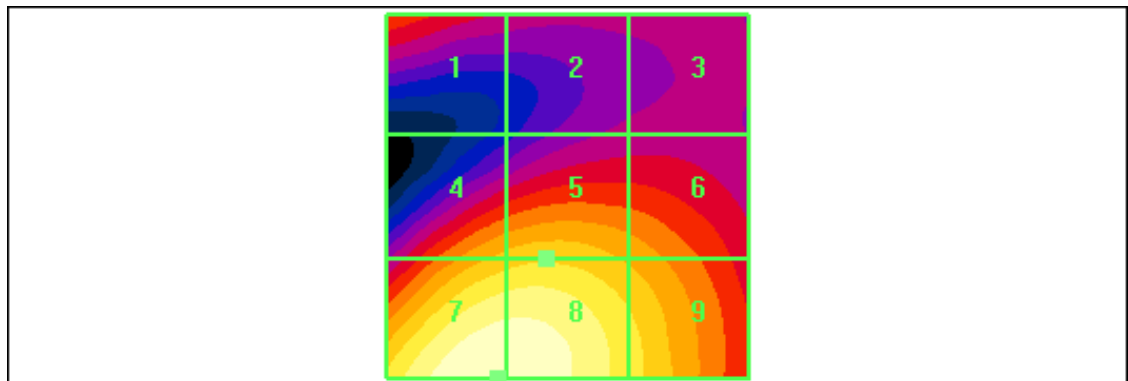
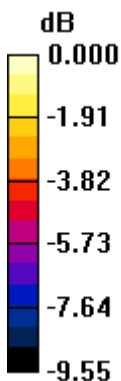
Grid 1	Grid 2	Grid 3
43.7 M4	37.9 M4	37.1 M4
Grid 4	Grid 5	Grid 6
52.9 M3	54.6 M3	50.7 M3
Grid 7	Grid 8	Grid 9
68.9 M3	68.8 M3	57.1 M3

Cursor:

Total = 68.9 V/m

E Category: M3

Location: 9.5, 25, 370.9 mm



0 dB = 68.9V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.4°C /128

Test Date Nov. 7, 201

DUT: P6020; 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: E Dipole Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ; Calibrated: 2011-05-18

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn869; Calibrated: 2011-09-22

- 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 = 0.233 A/m

Probe Modulation Factor = 2.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.064 A/m; Power Drift = 0.022 dB

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

Peak H-field in A/m

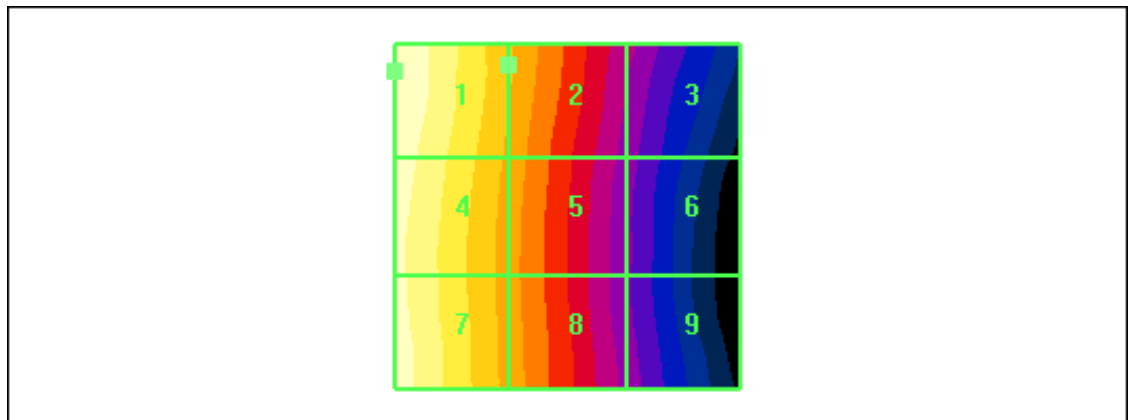
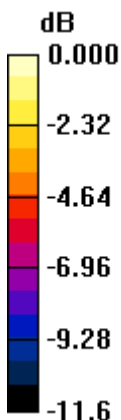
Grid 1	Grid 2	Grid 3
0.233 M4	0.166 M4	0.109 M4
Grid 4	Grid 5	Grid 6
0.226 M4	0.160 M4	0.101 M4
Grid 7	Grid 8	Grid 9
0.224 M4	0.158 M4	0.102 M4

Cursor:

Total = 0.233 A/m

H Category: M4

Location: 25, -21, 370.9 mm



0 dB = 0.233A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.4°C /190

Test Date Nov. 7, 201

DUT: P6020; 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: E Dipole Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ; Calibrated: 2011-05-18

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn869; Calibrated: 2011-09-22

- 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 = 0.228 A/m

Probe Modulation Factor = 2.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.062 A/m; Power Drift = 0.021 dB

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

Peak H-field in A/m

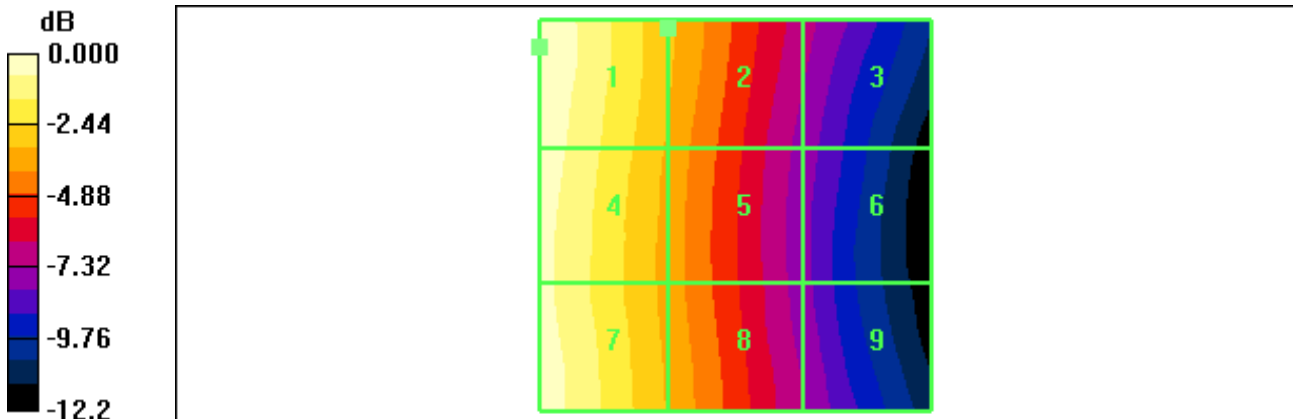
Grid 1	Grid 2	Grid 3
0.228 M4	0.160 M4	0.103 M4
Grid 4	Grid 5	Grid 6
0.221 M4	0.154 M4	0.095 M4
Grid 7	Grid 8	Grid 9
0.221 M4	0.155 M4	0.099 M4

Cursor:

Total = 0.228 A/m

H Category: M4

Location: 25, -21.5, 370.9 mm



Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.4°C /251

Test Date Nov. 7, 201

DUT: P6020; 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: E Dipole Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ; Calibrated: 2011-05-18
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2011-09-22
- 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 = 0.181 A/m

Probe Modulation Factor = 2.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.050 A/m; Power Drift = 0.116 dB

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

Peak H-field in A/m

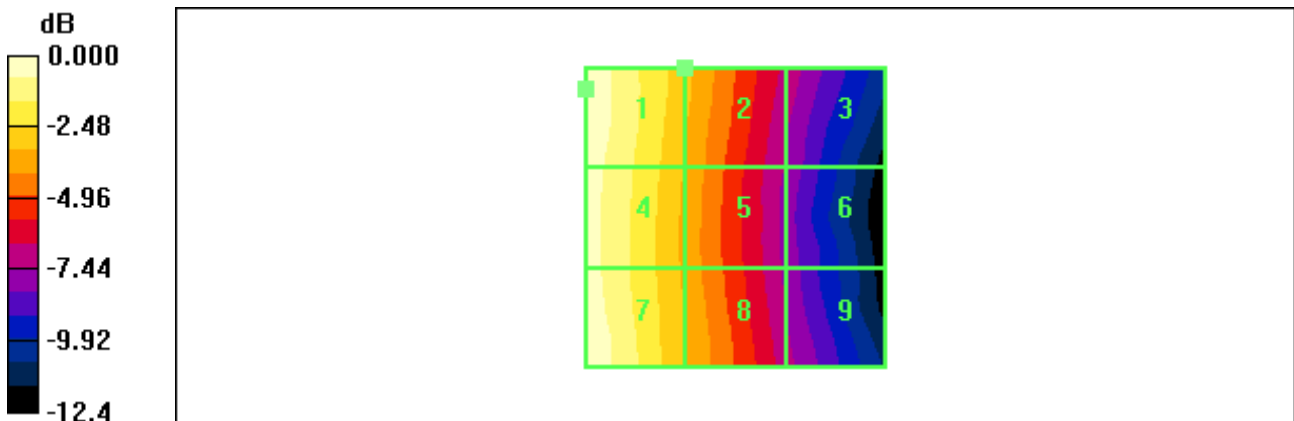
Grid 1 0.181 M4	Grid 2 0.128 M4	Grid 3 0.082 M4
Grid 4 0.174 M4	Grid 5 0.124 M4	Grid 6 0.076 M4
Grid 7 0.180 M4	Grid 8 0.124 M4	Grid 9 0.080 M4

Cursor:

Total = 0.181 A/m

H Category: M4

Location: 25, -21.5, 370.9 mm



0 dB = 0.181A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.4°C /512

Test Date Nov. 7, 201

DUT: P6020; 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: E Dipole Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ; Calibrated: 2011-05-18
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2011-09-22
- 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 = 0.148 A/m

Probe Modulation Factor = 2.27

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.063 A/m; Power Drift = -0.010 dB

Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak H-field in A/m

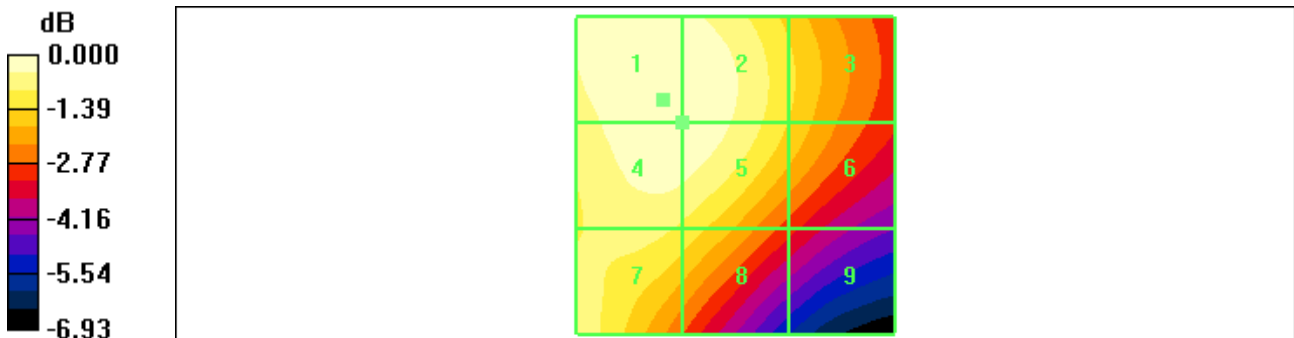
Grid 1	Grid 2	Grid 3
0.148 M3	0.148 M3	0.128 M4
Grid 4	Grid 5	Grid 6
0.148 M3	0.147 M3	0.126 M4
Grid 7	Grid 8	Grid 9
0.139 M4	0.131 M4	0.104 M4

Cursor:

Total = 0.148 A/m

H Category: M3

Location: 11.5, -12, 370.9 mm



0 dB = 0.148A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.4°C /661

Test Date Nov. 7, 201

DUT: P6020; 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: E Dipole Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ; Calibrated: 2011-05-18

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn869; Calibrated: 2011-09-22

- 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 = 0.154 A/m

Probe Modulation Factor = 2.27

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.069 A/m; Power Drift = -0.071 dB

Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak H-field in A/m

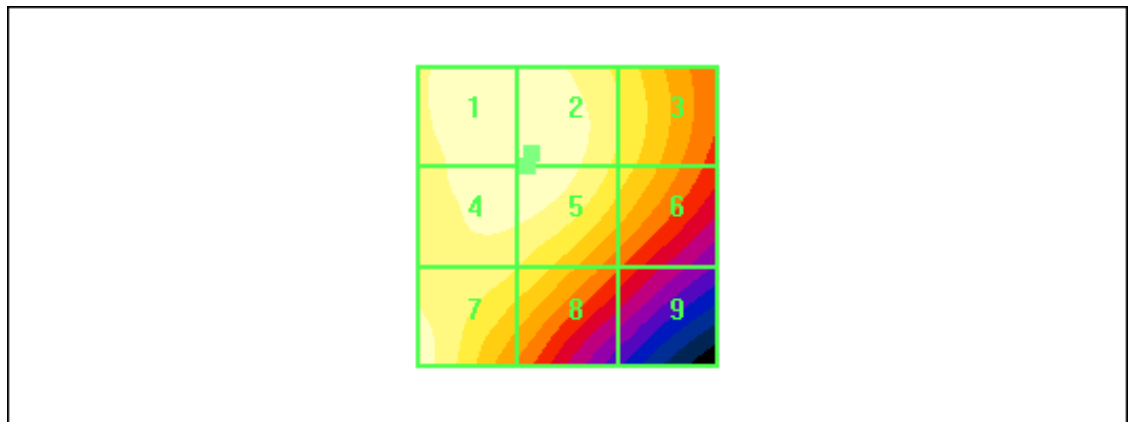
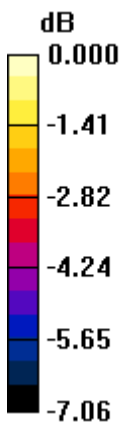
Grid 1	Grid 2	Grid 3
0.153 M3	0.154 M3	0.139 M4
Grid 4	Grid 5	Grid 6
0.153 M3	0.153 M3	0.136 M4
Grid 7	Grid 8	Grid 9
0.151 M3	0.138 M4	0.112 M4

Cursor:

Total = 0.154 A/m

H Category: M3

Location: 6, -10.5, 370.9 mm



0 dB = 0.154A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.4°C /810

Test Date Nov. 7, 201

DUT: P6020; 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: E Dipole Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ; Calibrated: 2011-05-18
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2011-09-22
- 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 = 0.185 A/m

Probe Modulation Factor = 2.27

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.079 A/m; Power Drift = 0.016 dB

Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak H-field in A/m

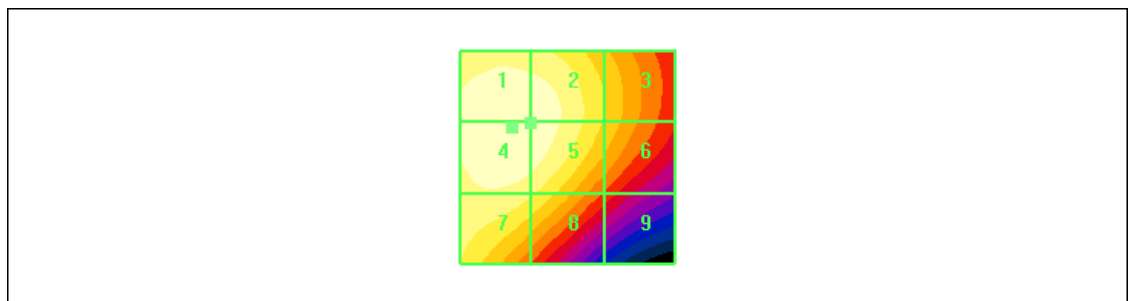
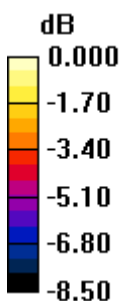
Grid 1	Grid 2	Grid 3
0.184 M3	0.182 M3	0.153 M3
Grid 4	Grid 5	Grid 6
0.185 M3	0.182 M3	0.151 M3
Grid 7	Grid 8	Grid 9
0.172 M3	0.164 M3	0.124 M4

Cursor:

Total = 0.185 A/m

H Category: M3

Location: 13, -7, 370.9 mm



0 dB = 0.185A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.4°C /4132

Test Date Nov. 7, 201

DUT: P6020; 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 Dipole Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2011-05-16

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn869; Calibrated: 2011-09-22

- 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 = 46.8 V/m

Probe Modulation Factor = 0.823

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 74.4 V/m; Power Drift = 0.048 dB

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

Peak E-field in V/m

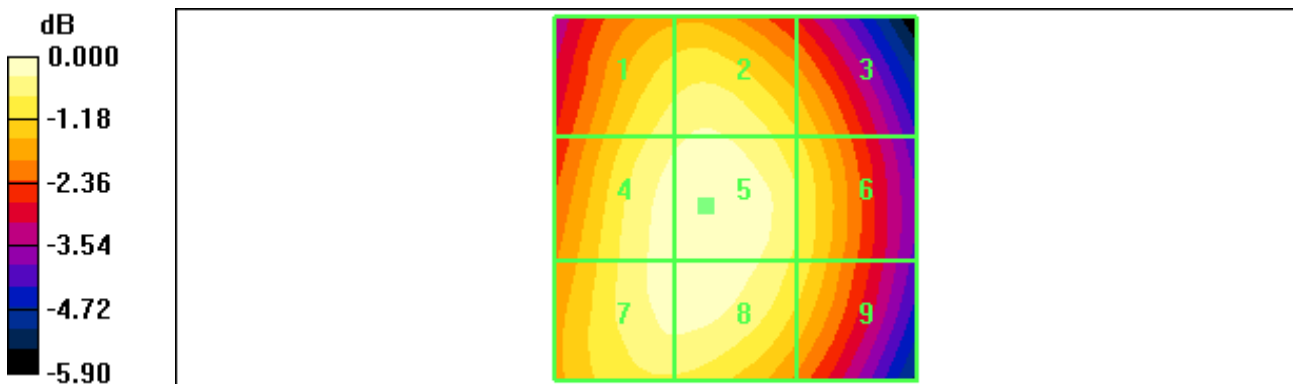
Grid 1	Grid 2	Grid 3
44.2 M4	45.1 M4	41.1 M4
Grid 4	Grid 5	Grid 6
45.9 M4	46.8 M4	42.8 M4
Grid 7	Grid 8	Grid 9
45.9 M4	46.4 M4	42.2 M4

Cursor:

Total = 46.8 V/m

E Category: M4

Location: 4, 1, 370.9 mm



Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.4°C /4183

Test Date Nov. 7, 201

DUT: P6020; 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 Dipole Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2011-05-16

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn869; Calibrated: 2011-09-22

- 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 = 41.2 V/m

Probe Modulation Factor = 0.823

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 66.7 V/m; Power Drift = -0.046 dB

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

Peak E-field in V/m

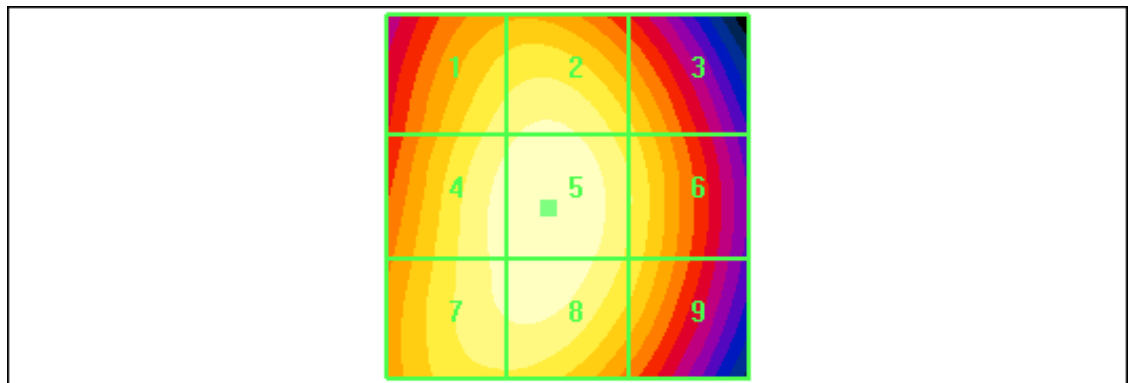
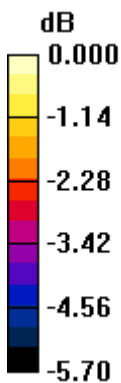
Grid 1	Grid 2	Grid 3
38.9 M4	40.0 M4	36.7 M4
Grid 4	Grid 5	Grid 6
40.3 M4	41.2 M4	38.0 M4
Grid 7	Grid 8	Grid 9
40.1 M4	40.8 M4	37.3 M4

Cursor:

Total = 41.2 V/m

E Category: M4

Location: 2.5, 1.5, 370.9 mm



0 dB = 41.2V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.4°C /4233

Test Date Nov. 7, 201

DUT: P6020; 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 Dipole Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2011-05-16

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn869; Calibrated: 2011-09-22

- 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 = 47.4 V/m

Probe Modulation Factor = 0.823

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 76.2 V/m; Power Drift = -0.011 dB

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

Peak E-field in V/m

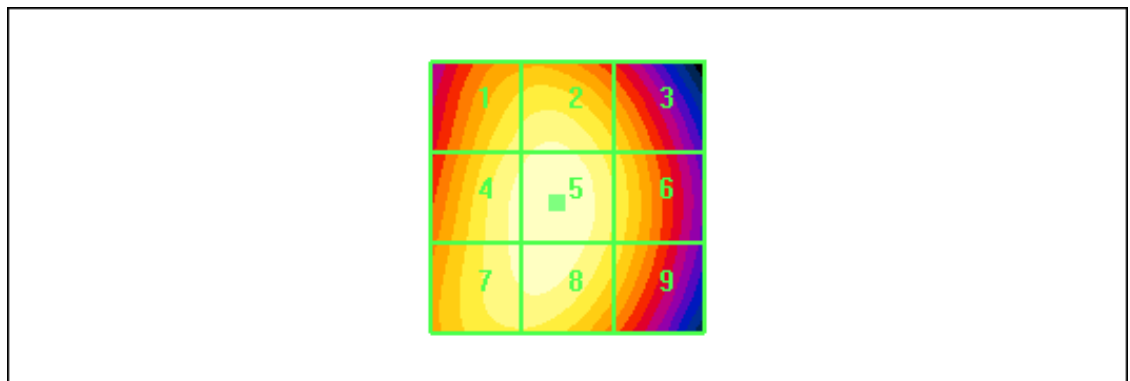
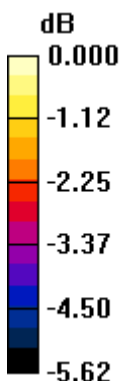
Grid 1	Grid 2	Grid 3
44.7 M4	45.9 M4	42.2 M4
Grid 4	Grid 5	Grid 6
46.3 M4	47.4 M4	43.5 M4
Grid 7	Grid 8	Grid 9
46.1 M4	46.9 M4	42.9 M4

Cursor:

Total = 47.4 V/m

E Category: M4

Location: 2, 1, 370.9 mm



0 dB = 47.4V/m

Test Laboratory:

HCT CO., LTD.

Ambient Temperature / Channel 21.4°C /9262

Test Date Nov. 7, 201

DUT: P6020; 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 Dipole Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2011-05-16

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn869; Calibrated: 2011-09-22

- 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 = 28.9 V/m

Probe Modulation Factor = 0.833

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 26.1 V/m; Power Drift = -0.054 dB

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

Peak E-field in V/m

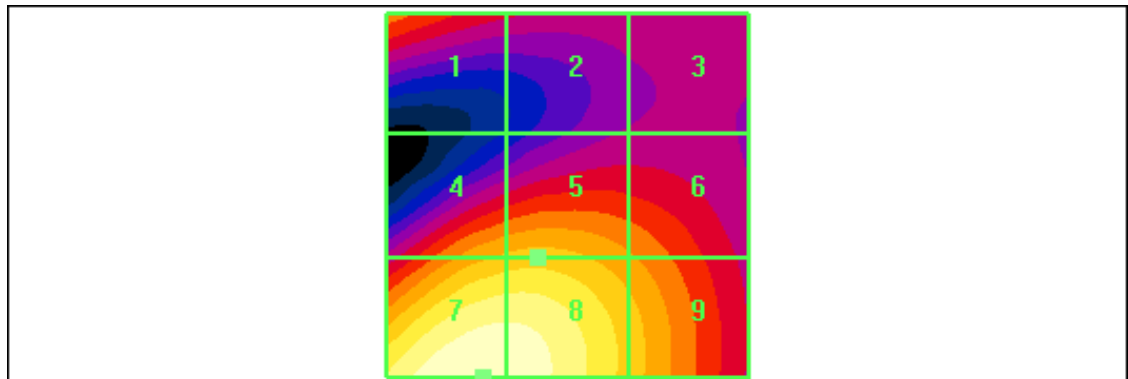
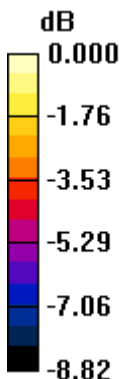
Grid 1	Grid 2	Grid 3
20.1 M4	17.1 M4	16.6 M4
Grid 4	Grid 5	Grid 6
22.4 M4	22.8 M4	20.9 M4
Grid 7	Grid 8	Grid 9
28.9 M4	28.7 M4	23.0 M4

Cursor:

Total = 28.9 V/m

E Category: M4

Location: 11.5, 25, 370.9 mm



0 dB = 28.9V/m

Test Laboratory:

HCT CO., LTD.

Ambient Temperature / Channel 21.4°C /9400

Test Date Nov. 7, 201

DUT: P6020; 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 Dipole Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2011-05-16
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2011-09-22
- 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 = 30.9 V/m

Probe Modulation Factor = 0.833

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 28.4 V/m; Power Drift = -0.003 dB

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

Peak E-field in V/m

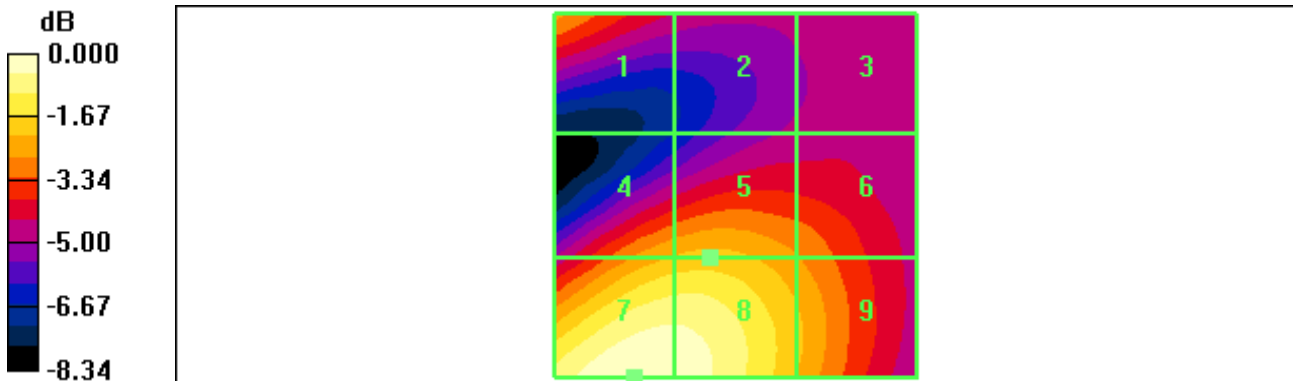
Grid 1	Grid 2	Grid 3
23.0 M4	18.5 M4	18.2 M4
Grid 4	Grid 5	Grid 6
24.1 M4	24.5 M4	22.5 M4
Grid 7	Grid 8	Grid 9
30.9 M4	30.4 M4	24.3 M4

Cursor:

Total = 30.9 V/m

E Category: M4

Location: 14, 25, 370.9 mm



0 dB = 30.9V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.4°C /9538

Test Date Nov. 7, 201

DUT: P6020; 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 Dipole Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2011-05-16

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn869; Calibrated: 2011-09-22

- 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 = 33.6 V/m

Probe Modulation Factor = 0.833

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 27.8 V/m; Power Drift = -0.068 dB

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

Peak E-field in V/m

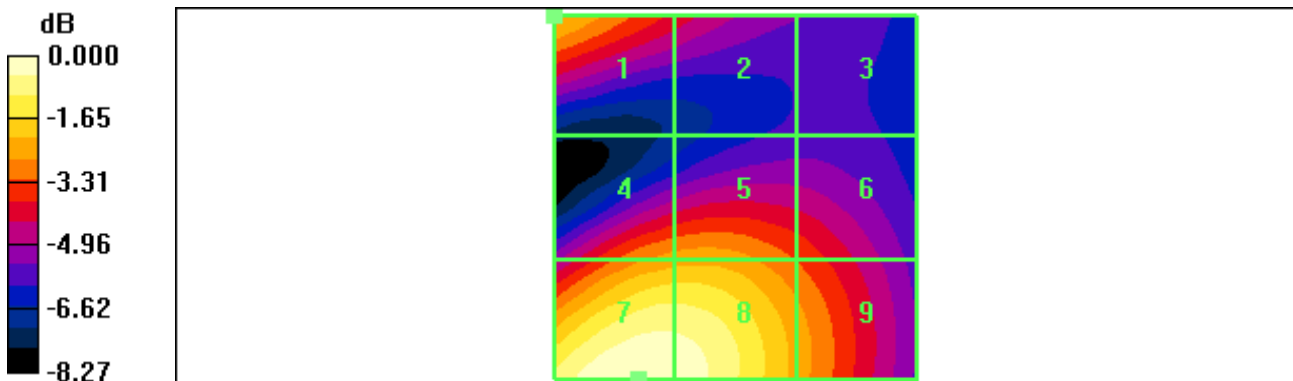
Grid 1	Grid 2	Grid 3
26.6 M4	21.2 M4	17.9 M4
Grid 4	Grid 5	Grid 6
25.3 M4	25.5 M4	22.9 M4
Grid 7	Grid 8	Grid 9
33.6 M4	33.1 M4	25.5 M4

Cursor:

Total = 33.6 V/m

E Category: M4

Location: 13.5, 25, 370.9 mm



0 dB = 33.6V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.4°C /4132

Test Date Nov. 7, 201

DUT: P6020; 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: E Dipole Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ; Calibrated: 2011-05-18

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn869; Calibrated: 2011-09-22

- 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 = 0.083 A/m

Probe Modulation Factor = 0.807

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.056 A/m; Power Drift = 0.045 dB

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

Peak H-field in A/m

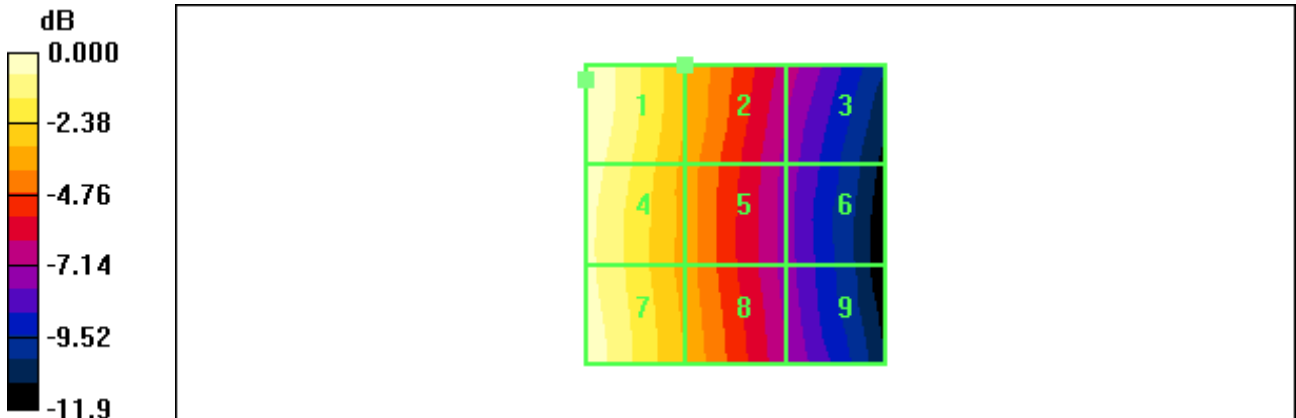
Grid 1	Grid 2	Grid 3
0.083 M4	0.058 M4	0.039 M4
Grid 4	Grid 5	Grid 6
0.079 M4	0.056 M4	0.035 M4
Grid 7	Grid 8	Grid 9
0.081 M4	0.057 M4	0.037 M4

Cursor:

Total = 0.083 A/m

H Category: M4

Location: 25, -22.5, 370.9 mm



Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.4°C /4183

Test Date Nov. 7, 201

DUT: P6020; 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: E Dipole Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ; Calibrated: 2011-05-18

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn869; Calibrated: 2011-09-22

- 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 = 0.074 A/m

Probe Modulation Factor = 0.807

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.050 A/m; Power Drift = -0.072 dB

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

Peak H-field in A/m

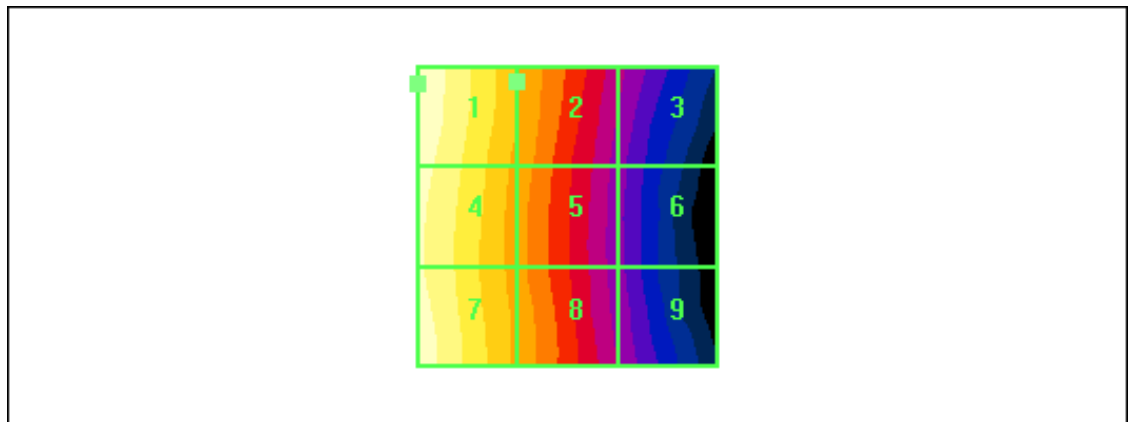
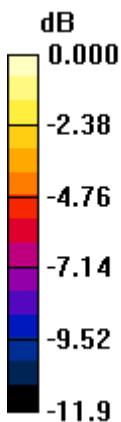
Grid 1	Grid 2	Grid 3
0.074 M4	0.052 M4	0.034 M4
Grid 4	Grid 5	Grid 6
0.071 M4	0.050 M4	0.031 M4
Grid 7	Grid 8	Grid 9
0.072 M4	0.051 M4	0.032 M4

Cursor:

Total = 0.074 A/m

H Category: M4

Location: 25, -22, 370.9 mm



0 dB = 0.074A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.4°C /4233

Test Date Nov. 7, 201

DUT: P6020; 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: E Dipole Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ; Calibrated: 2011-05-18

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn869; Calibrated: 2011-09-22

- 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 = 0.807

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.059 A/m; Power Drift = -0.047 dB

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

Peak H-field in A/m

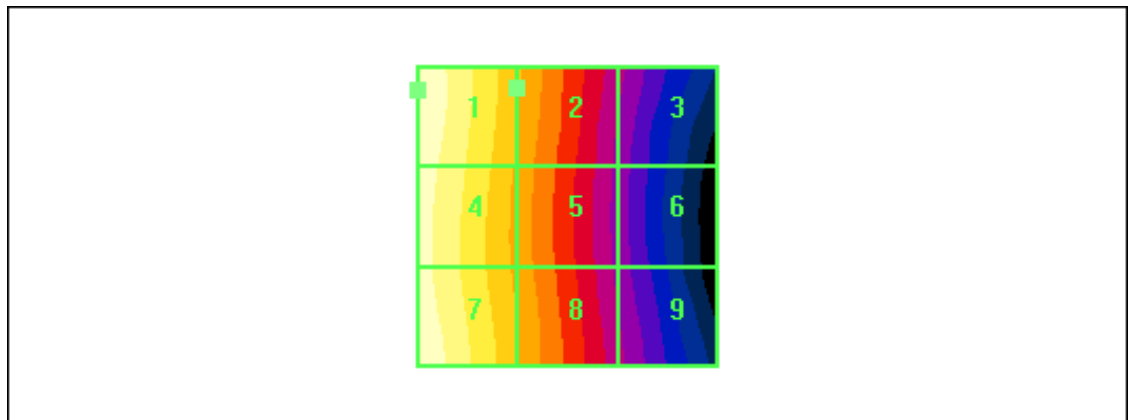
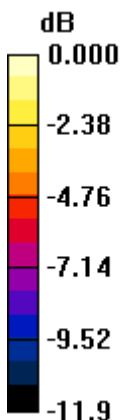
Grid 1	Grid 2	Grid 3
0.085 M4	0.060 M4	0.039 M4
Grid 4	Grid 5	Grid 6
0.083 M4	0.058 M4	0.036 M4
Grid 7	Grid 8	Grid 9
0.085 M4	0.060 M4	0.038 M4

Cursor:

Total = 0.085 A/m

H Category: M4

Location: 25, -21, 370.9 mm



0 dB = 0.085A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.4°C /9262

Test Date Nov. 7, 201

DUT: P6020; 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: E Dipole Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ; Calibrated: 2011-05-18

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn869; Calibrated: 2011-09-22

- 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 = 0.069 A/m

Probe Modulation Factor = 0.799

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.084 A/m; Power Drift = -0.022 dB

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

Peak H-field in A/m

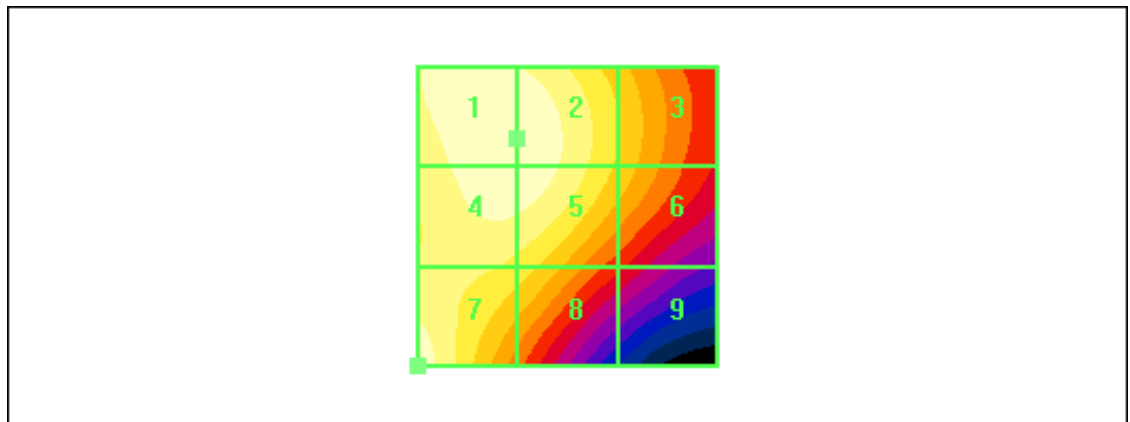
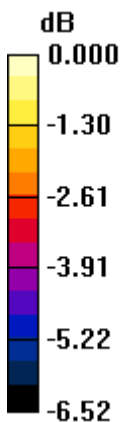
Grid 1	Grid 2	Grid 3
0.068 M4	0.068 M4	0.059 M4
Grid 4	Grid 5	Grid 6
0.068 M4	0.068 M4	0.059 M4
Grid 7	Grid 8	Grid 9
0.069 M4	0.061 M4	0.049 M4

Cursor:

Total = 0.069 A/m

H Category: M4

Location: 25, 25, 370.9 mm



0 dB = 0.069A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.4°C /9400

Test Date Nov. 7, 201

DUT: P6020; 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: E Dipole Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ; Calibrated: 2011-05-18

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn869; Calibrated: 2011-09-22

- 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 = 0.074 A/m

Probe Modulation Factor = 0.799

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.092 A/m; Power Drift = 0.021 dB

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

Peak H-field in A/m

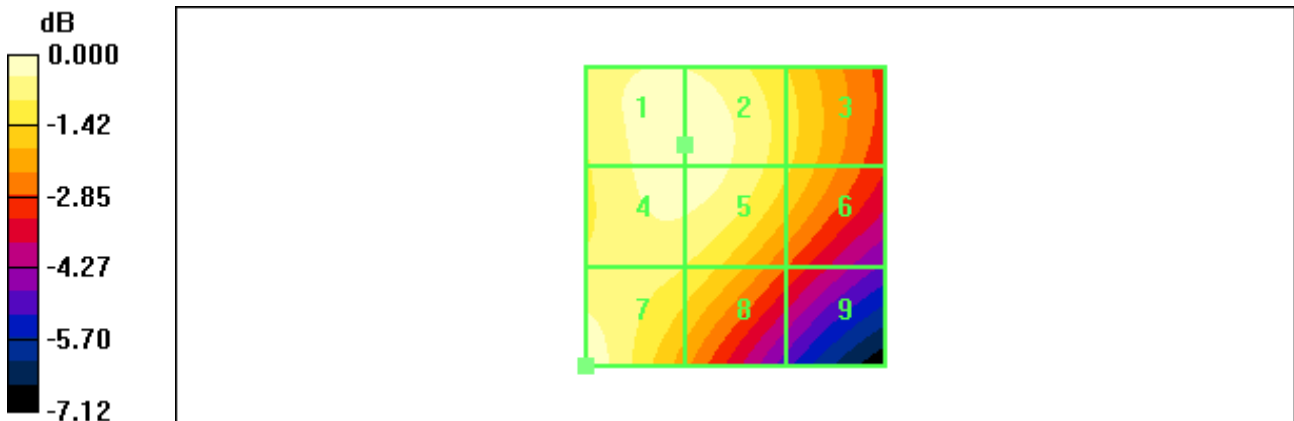
Grid 1	Grid 2	Grid 3
0.072 M4	0.072 M4	0.064 M4
Grid 4	Grid 5	Grid 6
0.072 M4	0.072 M4	0.064 M4
Grid 7	Grid 8	Grid 9
0.074 M4	0.066 M4	0.053 M4

Cursor:

Total = 0.074 A/m

H Category: M4

Location: 25, 25, 370.9 mm



0 dB = 0.074A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.4°C /9538

Test Date Nov. 7, 201

DUT: P6020; Type: Bar; Serial: #1

Communication System: WCDMA1900; Frequency: 1907.6 MHz; Duty Cycle: 1:1

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

Phantom section: E Dipole Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ; Calibrated: 2011-05-18

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn869; Calibrated: 2011-09-22

- 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 = 0.083 A/m

Probe Modulation Factor = 0.799

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.102 A/m; Power Drift = 0.054 dB

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

Peak H-field in A/m

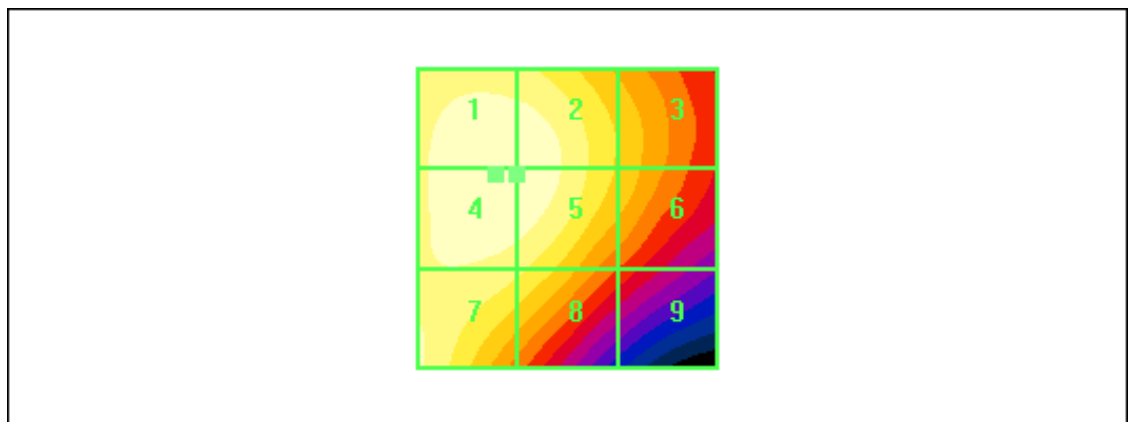
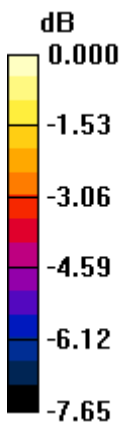
Grid 1	Grid 2	Grid 3
0.083 M4	0.082 M4	0.069 M4
Grid 4	Grid 5	Grid 6
0.083 M4	0.082 M4	0.069 M4
Grid 7	Grid 8	Grid 9
0.080 M4	0.075 M4	0.058 M4

Cursor:

Total = 0.083 A/m

H Category: M4

Location: 12, -7.5, 370.9 mm



0 dB = 0.083A/m