

APPENDIX A. HAC TEST PLOTS

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.5 °C /1013

Test Date Oct. 26, 2010

DUT: TXT8035; Type: BAR; Serial: #1

Communication System: CDMA 835MHz FCC; Frequency: 824.7 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 184

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2010-05-20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn466; Calibrated: 2010-07-21
- 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 = 60.1 V/m
 Probe Modulation Factor = 0.963
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 84.2 V/m; Power Drift = 0.013 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

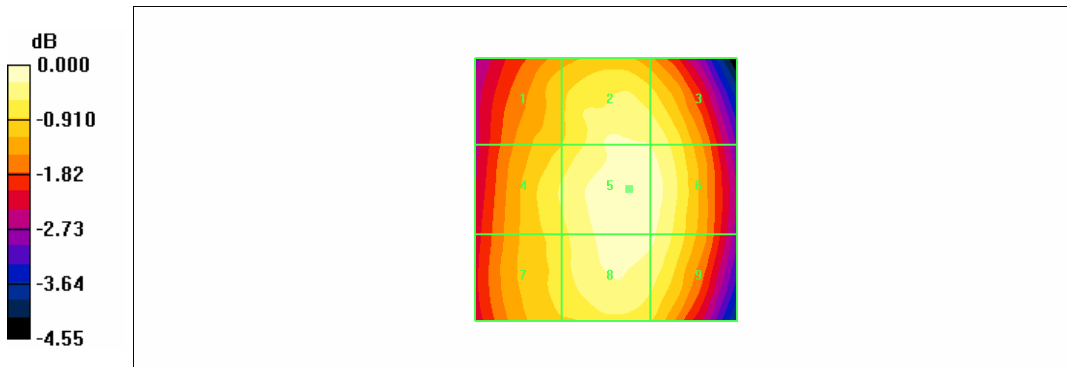
Grid 1	Grid 2	Grid 3
54.1 M4	58.5 M4	58.0 M4
Grid 4	Grid 5	Grid 6
56.3 M4	60.1 M4	59.3 M4
Grid 7	Grid 8	Grid 9
55.4 M4	59.3 M4	58.5 M4

Cursor:

Total = 60.1 V/m

E Category: M4

Location: -4.5, 0, 369.9 mm



0 dB = 60.1V/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature / Channel 21.5 °C /384
 Test Date Oct. 26, 2010

DUT: TXT8035; Type: BAR; Serial: #1

Communication System: CDMA 835MHz FCC; Frequency: 836.52 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 184

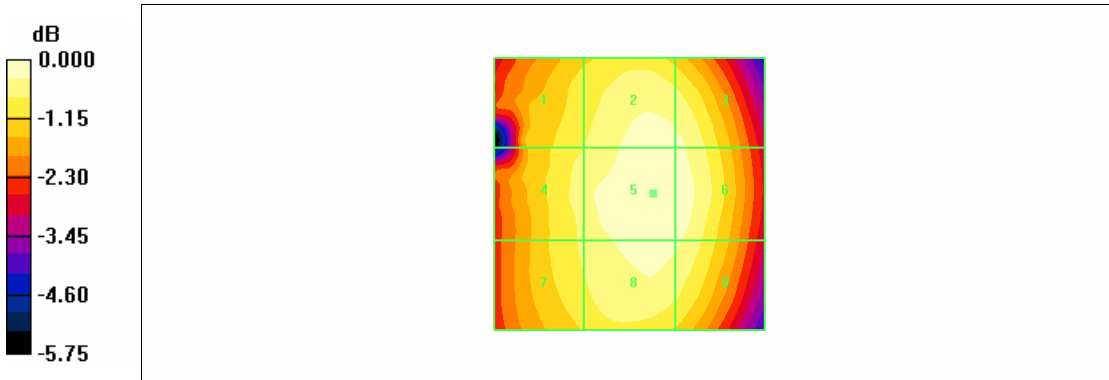
DASY4 Configuration:
 - Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2010-05-20
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE3 Sn466; Calibrated: 2010-07-21
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

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 = 69.9 V/m
 Probe Modulation Factor = 0.963
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 96.4 V/m; Power Drift = 0.113 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
64.0 M4	68.2 M4	67.8 M4
Grid 4	Grid 5	Grid 6
65.7 M4	69.9 M4	69.0 M4
Grid 7	Grid 8	Grid 9
64.6 M4	68.3 M4	67.5 M4

Cursor:
 Total = 69.9 V/m
 E Category: M4
 Location: -4.5, 0, 369.9 mm



0 dB = 69.9V/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature / Channel 21.5 °C /777
 Test Date Oct. 26, 2010

DUT: TXT8035; Type: BAR; Serial: #1

Communication System: CDMA 835MHz FCC; Frequency: 848.31 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 184

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2010-05-20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn466; Calibrated: 2010-07-21
- 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):

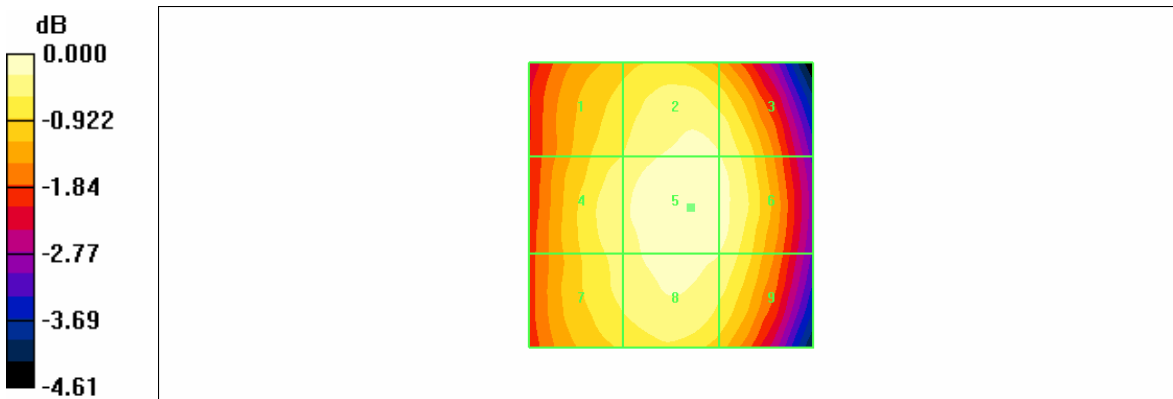
Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 62.7 V/m
 Probe Modulation Factor = 0.963
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 87.6 V/m; Power Drift = 0.032 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
58.6 M4	61.6 M4	60.7 M4
Grid 4	Grid 5	Grid 6
60.3 M4	62.7 M4	61.6 M4
Grid 7	Grid 8	Grid 9
59.5 M4	61.6 M4	60.5 M4

Cursor:

Total = 62.7 V/m
 E Category: M4
 Location: -3.5, 0.5, 369.9 mm



0 dB = 62.7V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.5 °C /25

Test Date Oct. 26, 2010

DUT: TXT8035; Type: BAR; Serial: #1

Communication System: PCS 1900MHz FCC; Frequency: 1851.25 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 184

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2010-05-20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn466; Calibrated: 2010-07-21
- 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 = 35.0 V/m
 Probe Modulation Factor = 0.953
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 13.0 V/m; Power Drift = -0.178 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

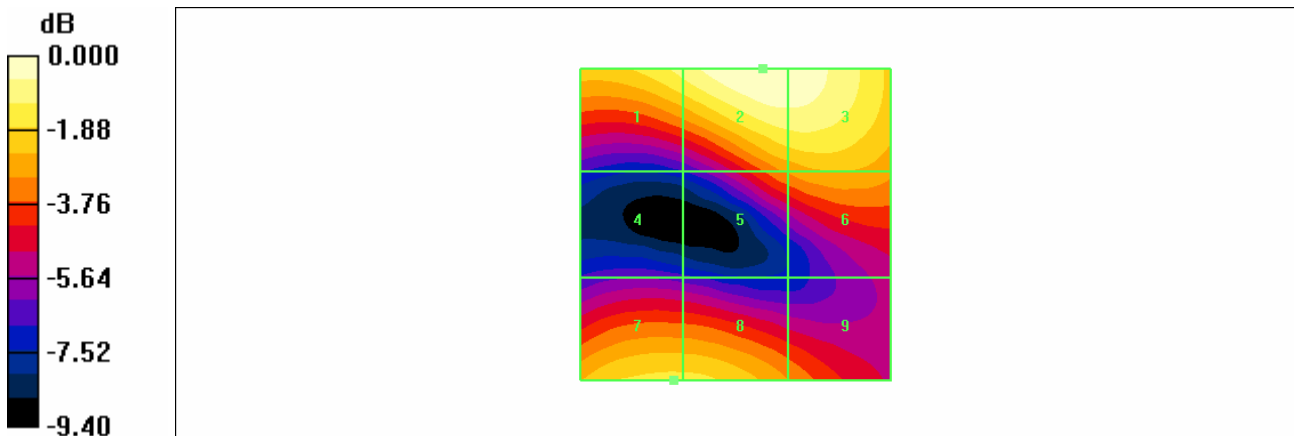
Grid 1	Grid 2	Grid 3
31.2 M4	35.0 M4	34.6 M4
Grid 4	Grid 5	Grid 6
17.0 M4	24.7 M4	26.3 M4
Grid 7	Grid 8	Grid 9
28.9 M4	28.9 M4	24.4 M4

Cursor:

Total = 35.0 V/m

E Category: M4

Location: -4.5, -25, 369.9 mm



0 dB = 35.0V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.5 °C /600

Test Date Oct. 26, 2010

DUT: TXT8035; Type: BAR; Serial: #1

Communication System: PCS 1900MHz FCC; 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 184

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2010-05-20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn466; Calibrated: 2010-07-21
- 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 = 33.4 V/m

Probe Modulation Factor = 0.953

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 13.2 V/m; Power Drift = -0.037 dB

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

Peak E-field in V/m

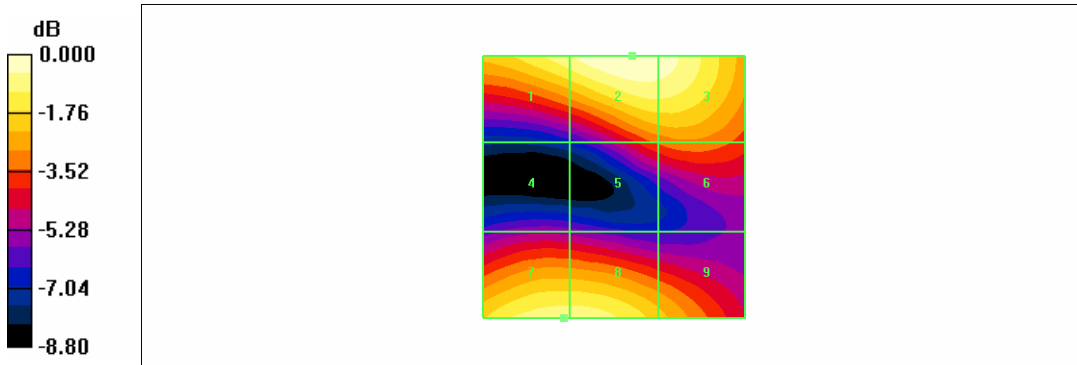
Grid 1	Grid 2	Grid 3
30.9 M4	33.4 M4	32.6 M4
Grid 4	Grid 5	Grid 6
17.9 M4	22.6 M4	23.5 M4
Grid 7	Grid 8	Grid 9
30.5 M4	30.5 M4	26.3 M4

Cursor:

Total = 33.4 V/m

E Category: M4

Location: -3.5, -25, 369.9 mm



0 dB = 33.4V/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature / Channel 21.5 °C /1175
 Test Date Oct. 26, 2010

DUT: TXT8035; Type: BAR; Serial: #1

Communication System: PCS 1900MHz FCC; Frequency: 1908.75 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 184

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2010-05-20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn466; Calibrated: 2010-07-21
- 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):

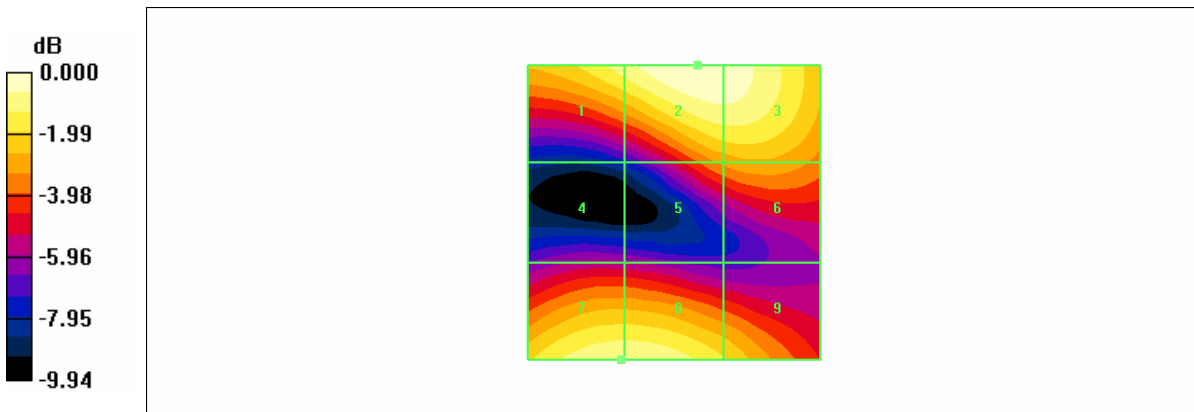
Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 32.2 V/m
 Probe Modulation Factor = 0.953
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 15.4 V/m; Power Drift = -0.050 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
28.9 M4	32.2 M4	31.7 M4
Grid 4	Grid 5	Grid 6
16.6 M4	22.4 M4	23.4 M4
Grid 7	Grid 8	Grid 9
29.6 M4	29.6 M4	25.7 M4

Cursor:

Total = 32.2 V/m
 E Category: M4
 Location: -4, -25, 369.9 mm



0 dB = 32.2V/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature / Channel 21.5 °C /1013
 Test Date Oct. 26, 2010

DUT: TXT8035; Type: BAR; Serial: #1

Communication System: CDMA 835MHz FCC; Frequency: 824.7 MHz;Duty Cycle: 1:1
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³
 Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

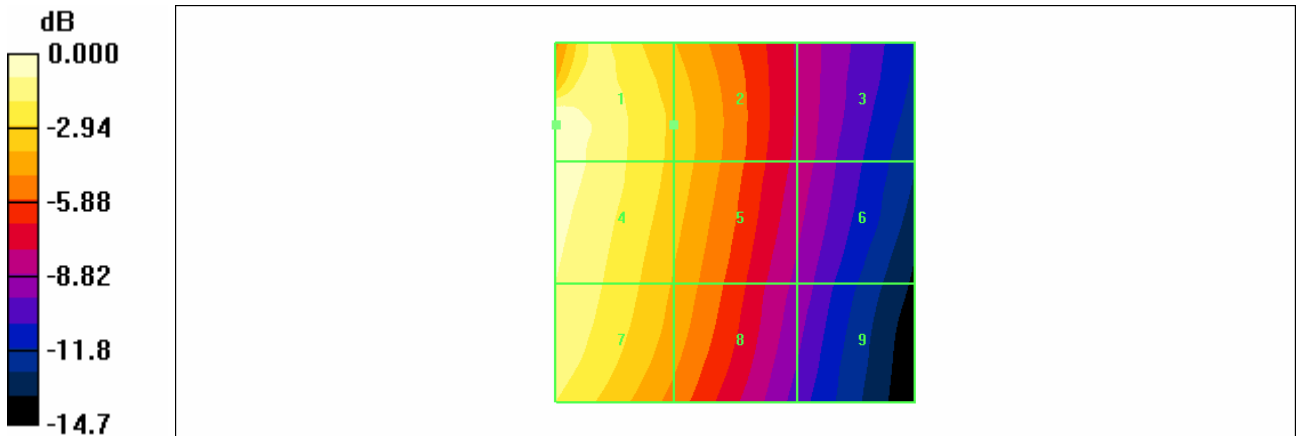
DASY4 Configuration:
 - Probe: H3DV6 - SN6101; ; Calibrated: 2010-05-27
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE3 Sn466; Calibrated: 2010-07-21
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

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 = 0.132 A/m
 Probe Modulation Factor = 0.868
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 0.082 A/m; Power Drift = 0.063 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.132 M4	0.091 M4	0.053 M4
Grid 4	Grid 5	Grid 6
0.128 M4	0.091 M4	0.052 M4
Grid 7	Grid 8	Grid 9
0.118 M4	0.083 M4	0.047 M4

Cursor:
 Total = 0.132 A/m
 H Category: M4
 Location: 25, -13.5, 369.4 mm



0 dB = 0.132A/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature / Channel 21.5 °C /384
 Test Date Oct. 26, 2010

DUT: TXT8035; Type: BAR; Serial: #1

Communication System: CDMA 835MHz FCC; Frequency: 836.52 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 184

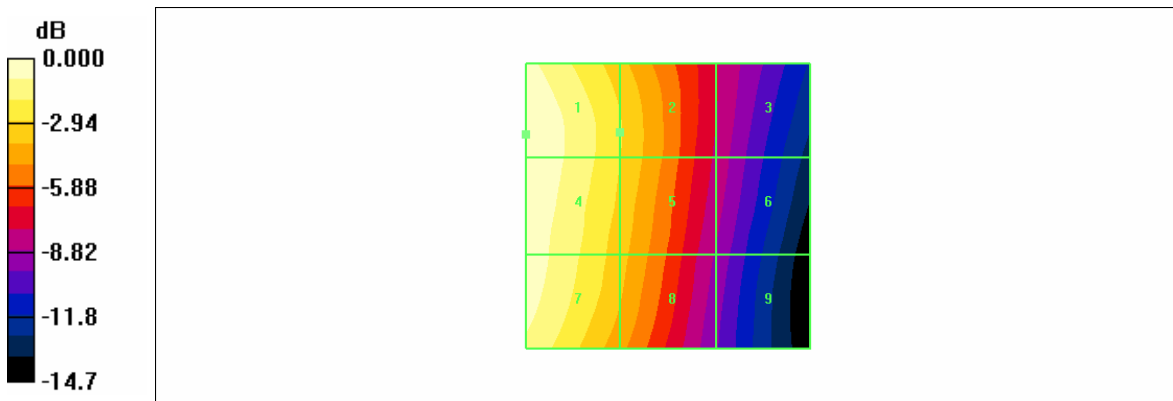
DASY4 Configuration:
 - Probe: H3DV6 - SN6101; ; Calibrated: 2010-05-27
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE3 Sn466; Calibrated: 2010-07-21
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

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 = 0.142 A/m
 Probe Modulation Factor = 0.868
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 0.090 A/m; Power Drift = 0.056 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.142 M4	0.103 M4	0.058 M4
Grid 4	Grid 5	Grid 6
0.142 M4	0.102 M4	0.056 M4
Grid 7	Grid 8	Grid 9
0.136 M4	0.095 M4	0.051 M4

Cursor:
 Total = 0.142 A/m
 H Category: M4
 Location: 25, -12.5, 369.4 mm



0 dB = 0.142A/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature / Channel 21.5 °C /777
 Test Date Oct. 26, 2010

DUT: TXT8035; Type: BAR; Serial: #1

Communication System: CDMA 835MHz FCC; Frequency: 848.31 MHz;Duty Cycle: 1:1
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³
 Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

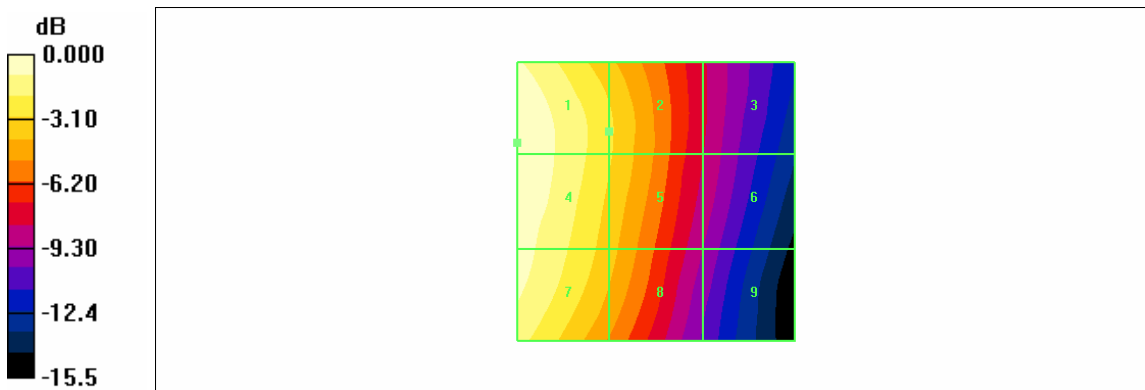
DASY4 Configuration:
 - Probe: H3DV6 - SN6101; ; Calibrated: 2010-05-27
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE3 Sn466; Calibrated: 2010-07-21
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

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 = 0.135 A/m
 Probe Modulation Factor = 0.868
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 0.085 A/m; Power Drift = -0.053 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.135 M4	0.097 M4	0.054 M4
Grid 4	Grid 5	Grid 6
0.134 M4	0.096 M4	0.052 M4
Grid 7	Grid 8	Grid 9
0.127 M4	0.088 M4	0.046 M4

Cursor:
 Total = 0.135 A/m
 H Category: M4
 Location: 25, -10.5, 369.4 mm



0 dB = 0.135A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.5 °C /25

Test Date Oct. 26, 2010

DUT: TXT8035; Type: BAR; Serial: #1

Communication System: PCS 1900MHz FCC; Frequency: 1851.25 MHz;Duty Cycle: 1:1
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³
 Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

- DASY4 Configuration:
- Probe: H3DV6 - SN6101; ; Calibrated: 2010-05-27
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE3 Sn466; Calibrated: 2010-07-21
 - 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):

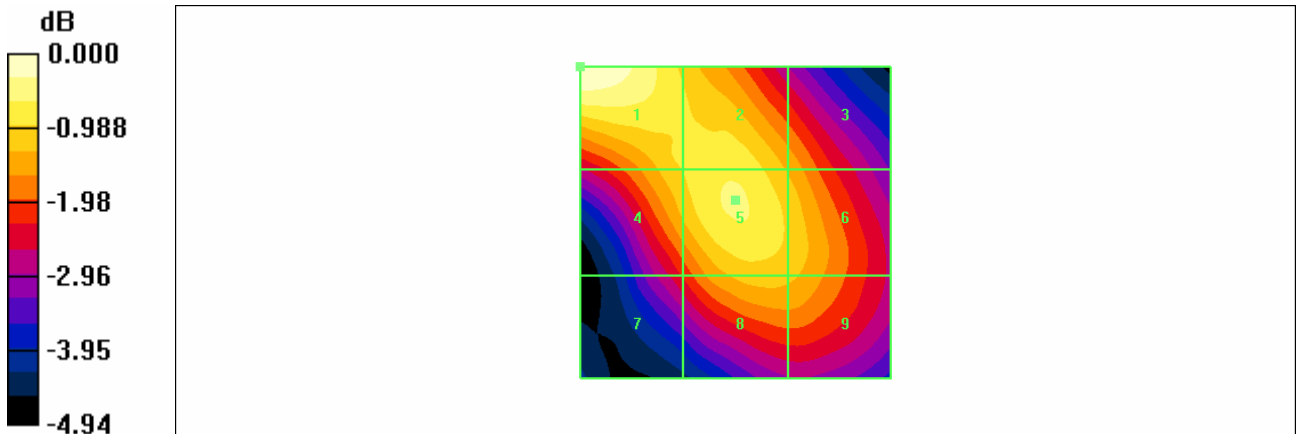
Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 0.093 A/m
 Probe Modulation Factor = 0.784
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 0.128 A/m; Power Drift = 0.119 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.093 M4	0.086 M4	0.080 M4
Grid 4	Grid 5	Grid 6
0.083 M4	0.087 M4	0.083 M4
Grid 7	Grid 8	Grid 9
0.072 M4	0.082 M4	0.081 M4

Cursor:

Total = 0.093 A/m
 H Category: M4
 Location: 25, -25, 369.4 mm



0 dB = 0.093A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.5 °C /600

Test Date Oct. 26, 2010

DUT: TXT8035; Type: BAR; Serial: #1

Communication System: PCS 1900MHz FCC; 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 184

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ; Calibrated: 2010-05-27
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn466; Calibrated: 2010-07-21
- 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 = 0.086 A/m

Probe Modulation Factor = 0.784

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.121 A/m; Power Drift = -0.099 dB

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

Peak H-field in A/m

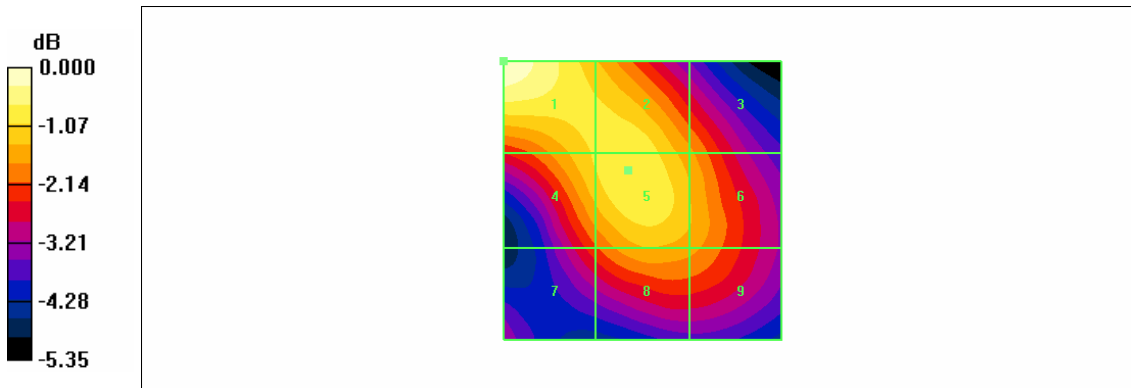
Grid 1	Grid 2	Grid 3
0.086 M4	0.079 M4	0.071 M4
Grid 4	Grid 5	Grid 6
0.077 M4	0.079 M4	0.073 M4
Grid 7	Grid 8	Grid 9
0.067 M4	0.073 M4	0.071 M4

Cursor:

Total = 0.086 A/m

H Category: M4

Location: 25, -25, 369.4 mm



0 dB = 0.086A/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature / Channel 21.5 °C /1175
 Test Date Oct. 26, 2010

DUT: TXT8035; Type: BAR; Serial: #1

Communication System: PCS 1900MHz FCC; Frequency: 1908.75 MHz; Duty Cycle: 1:1
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³
 Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

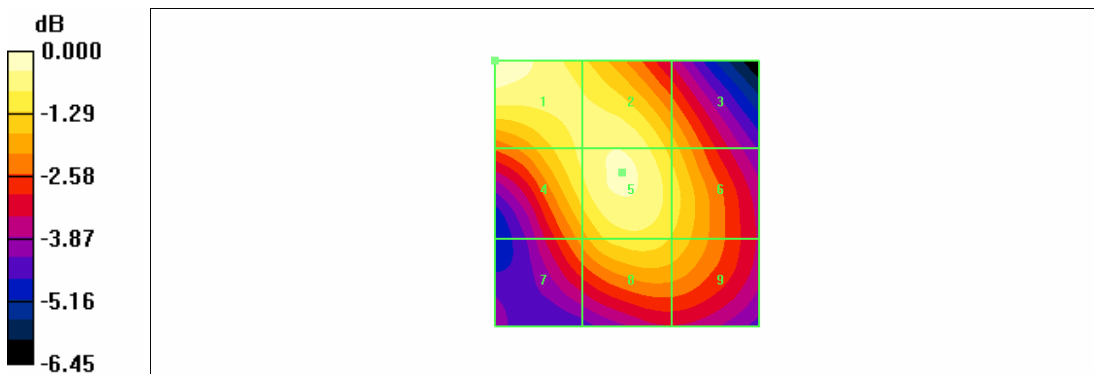
DASY4 Configuration:
 - Probe: H3DV6 - SN6101; ; Calibrated: 2010-05-27
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE3 Sn466; Calibrated: 2010-07-21
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

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 = 0.088 A/m
 Probe Modulation Factor = 0.784
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 0.130 A/m; Power Drift = 0.068 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.088 M4	0.084 M4	0.074 M4
Grid 4	Grid 5	Grid 6
0.081 M4	0.085 M4	0.078 M4
Grid 7	Grid 8	Grid 9
0.070 M4	0.078 M4	0.075 M4

Cursor:
 Total = 0.088 A/m
 H Category: M4
 Location: 25, -25, 369.4 mm



0 dB = 0.088A/m