

RTS RIM Testing Services	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for BlackBerry® Smartphone Model RBS21CW		Page 1(57)
	Author Data Daoud Attayi	Dates of Test 21-22 Aug, 2007	Report No RTS-0736-0708-15 Rev1

Annex A: Measurement data and plots

A.3 RF emission field plots

For plots where the probe was rotated, an arrow is drawn to showing location of the probe rotation after the exclusion block.

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Date/Time: 22/08/2007 12:20:58 PM

Test Laboratory: RTS

HAC_E_CDMA800_spkr_cent_low_chan_RC3_SO2

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; 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

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 12/03/2007
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid:

dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 104.9 V/m

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

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 111.9 V/m; Power Drift = -0.031 dB

Maximum value of Total (measured) = 103.9 V/m

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

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

Maximum value of peak Total field = 103.4 V/m

Probe Modulation Factor = 0.990

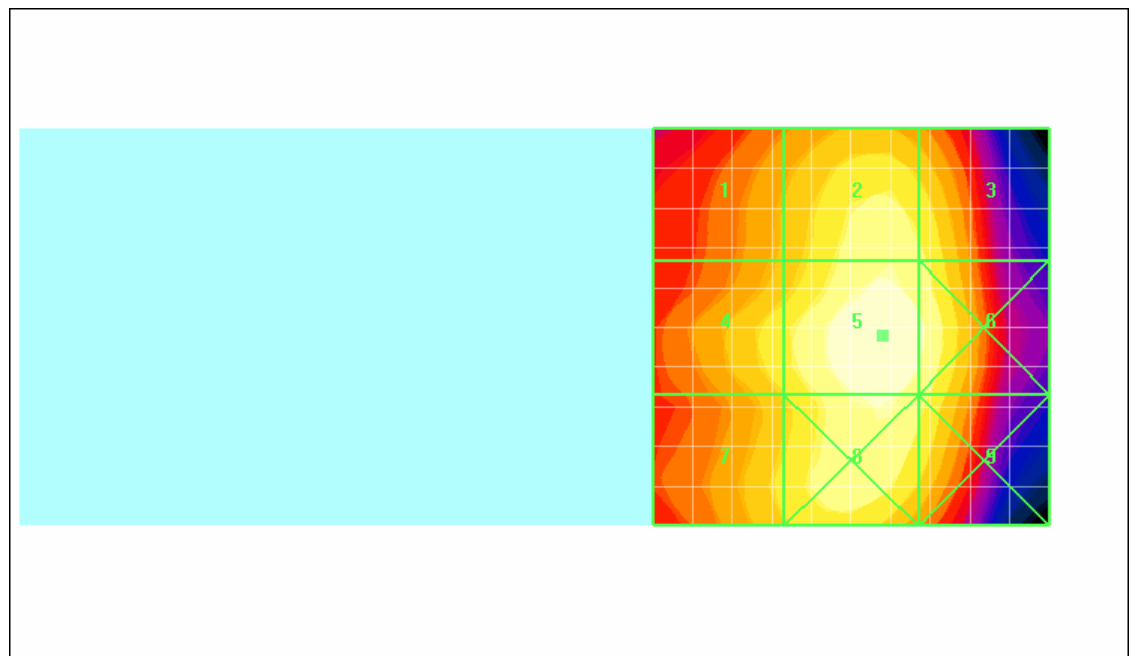
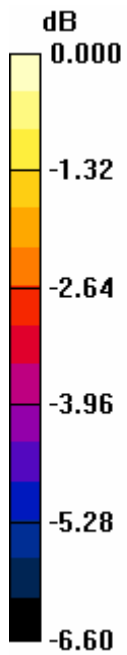
Reference Value = 111.9 V/m; Power Drift = -0.031 dB

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

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Peak E-field in V/m

Grid	Grid	Grid
85.5	97.2	94.8
Grid	Grid	Grid
92.3	103.4	99.7
Grid	Grid	Grid
90.0	99.2	95.7



0 dB = 103.4V/m

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Date/Time: 22/08/2007 12:30:07 PM

Test Laboratory: RTS

HAC_E_CDMA800_spkr_cent_mid_chan_RC3_SO2

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; 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

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 12/03/2007
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid:

dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 94.2 V/m

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

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 100.7 V/m; Power Drift = -0.068 dB

Maximum value of Total (measured) = 93.1 V/m

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

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

Maximum value of peak Total field = 92.6 V/m

Probe Modulation Factor = 0.990

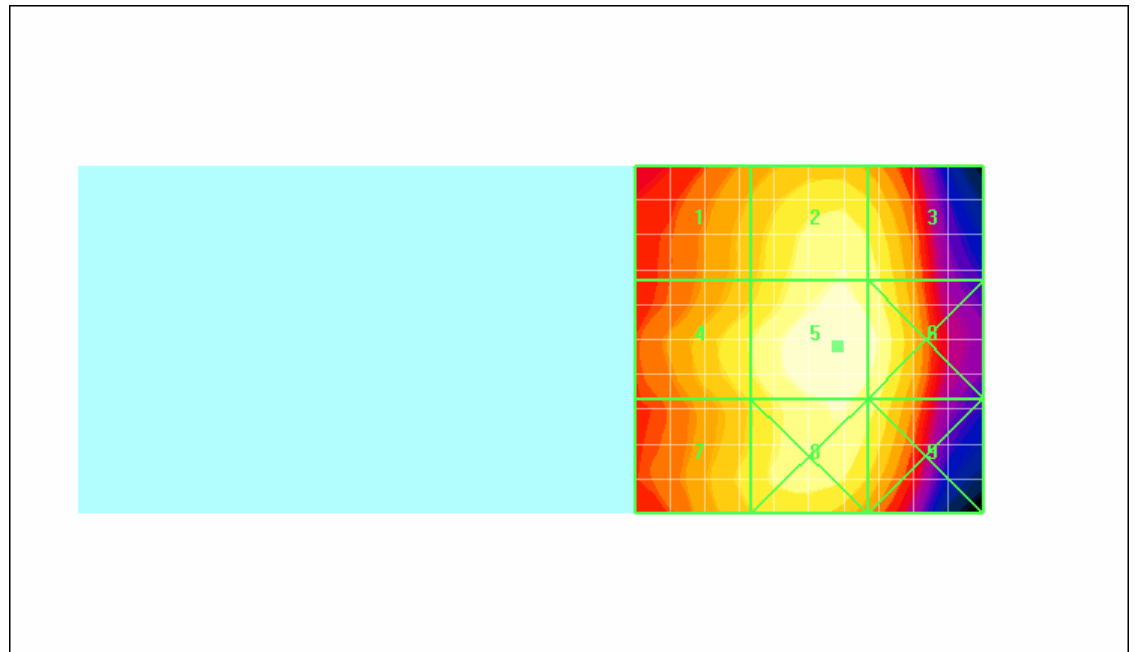
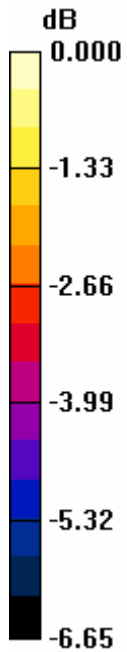
Reference Value = 100.7 V/m; Power Drift = -0.068 dB

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

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Peak E-field in V/m

Grid	Grid	Grid
77.8	87.9	85.9
Grid	Grid	Grid
83.6	92.6	89.7
Grid	Grid	Grid



0 dB = 92.6V/m

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Date/Time: 22/08/2007 12:36:52 PM

Test Laboratory: RTS

HAC_E_CDMA800_spkr_cent_high_chan_RC3_SO2

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 848.52 MHz; Duty Cycle: 1:1

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

Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 12/03/2007
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid:

dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 101.8 V/m

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

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 106.2 V/m; Power Drift = 0.006 dB

Maximum value of Total (measured) = 98.8 V/m

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

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

Maximum value of peak Total field = 98.1 V/m

Probe Modulation Factor = 0.990

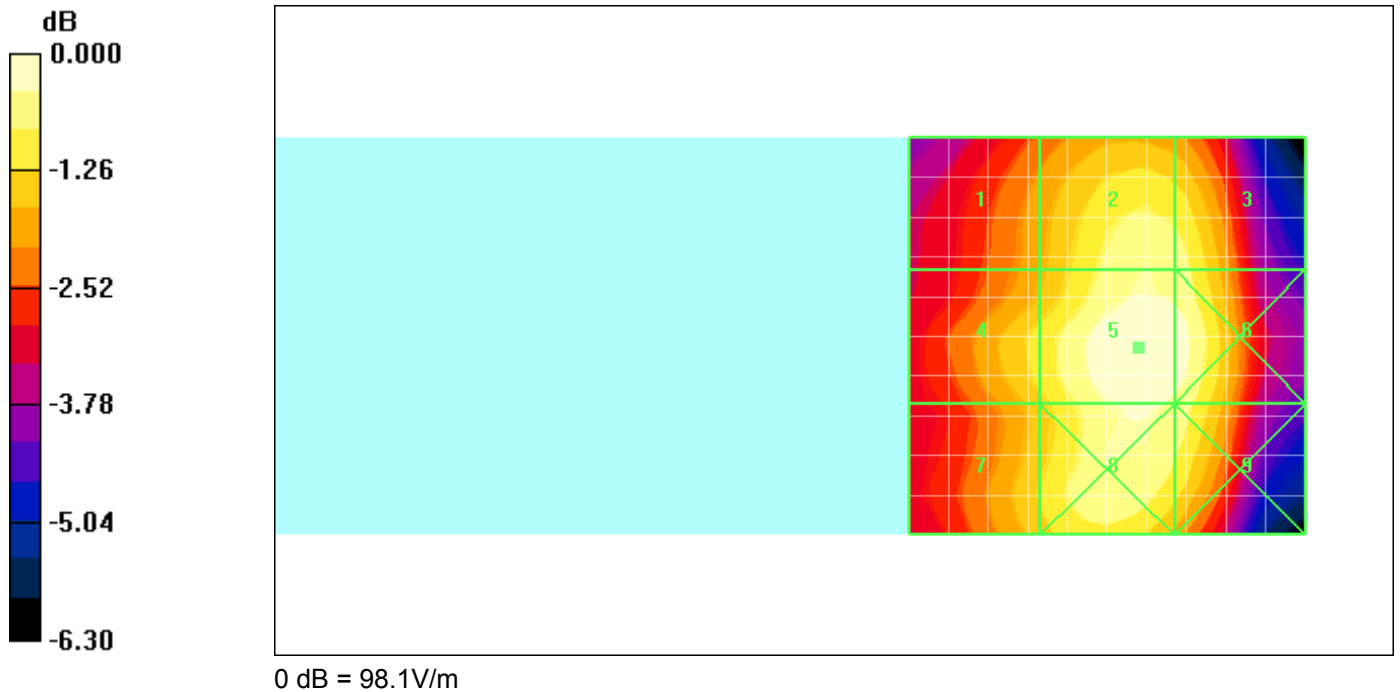
Reference Value = 106.2 V/m; Power Drift = 0.006 dB

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

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Peak E-field in V/m

Grid	Grid	Grid
79.8	93.0	91.8
Grid	Grid	Grid
86.7	98.1	96.3
Grid	Grid	Grid



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Date/Time: 22/08/2007 12:46:06 PM

Test Laboratory: RTS

HAC_E_CDMA800_sprkr_cent_low_chan_RC1_SO3_one_eighth

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 824.7 MHz; Duty Cycle: 1:8

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

Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 12/03/2007
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid:

dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 46.5 V/m

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

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 55.0 V/m; Power Drift = 0.014 dB

Maximum value of Total (measured) = 50.2 V/m

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

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

Maximum value of peak Total field = 145.0 V/m

Probe Modulation Factor = 2.89

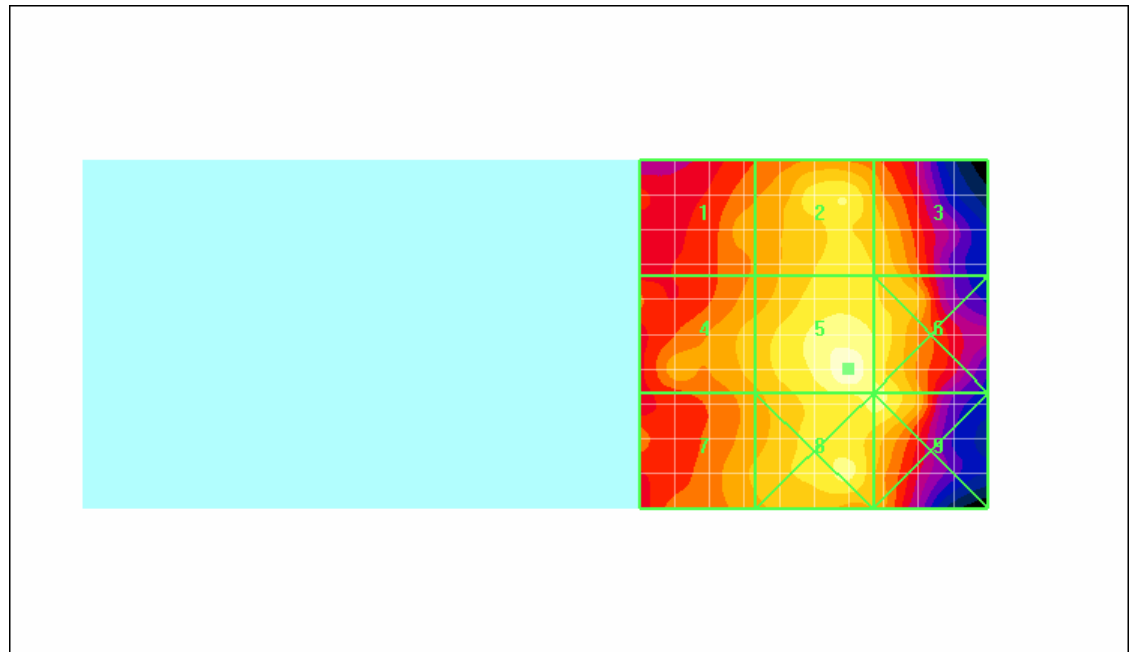
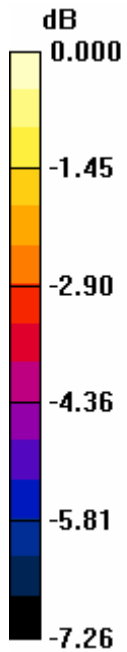
Reference Value = 55.0 V/m; Power Drift = 0.014 dB

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

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Peak E-field in V/m

Grid	Grid	Grid
115.3	130.2	123.4
Grid	Grid	Grid
120.0	145.0	132.9
Grid	Grid	Grid



0 dB = 145.0V/m

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Date/Time: 22/08/2007 1:40:39 PM

Test Laboratory: RTS

HAC_E_CDMA800_T-Coil_cent_low_chan_RC1_SO3_one_eighth

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 824.7 MHz; Duty Cycle: 1:8

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

Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 12/03/2007
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid:

dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 48.0 V/m

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

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 51.2 V/m; Power Drift = -0.113 dB

Maximum value of Total (measured) = 47.8 V/m

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

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

Maximum value of peak Total field = 138.6 V/m

Probe Modulation Factor = 2.89

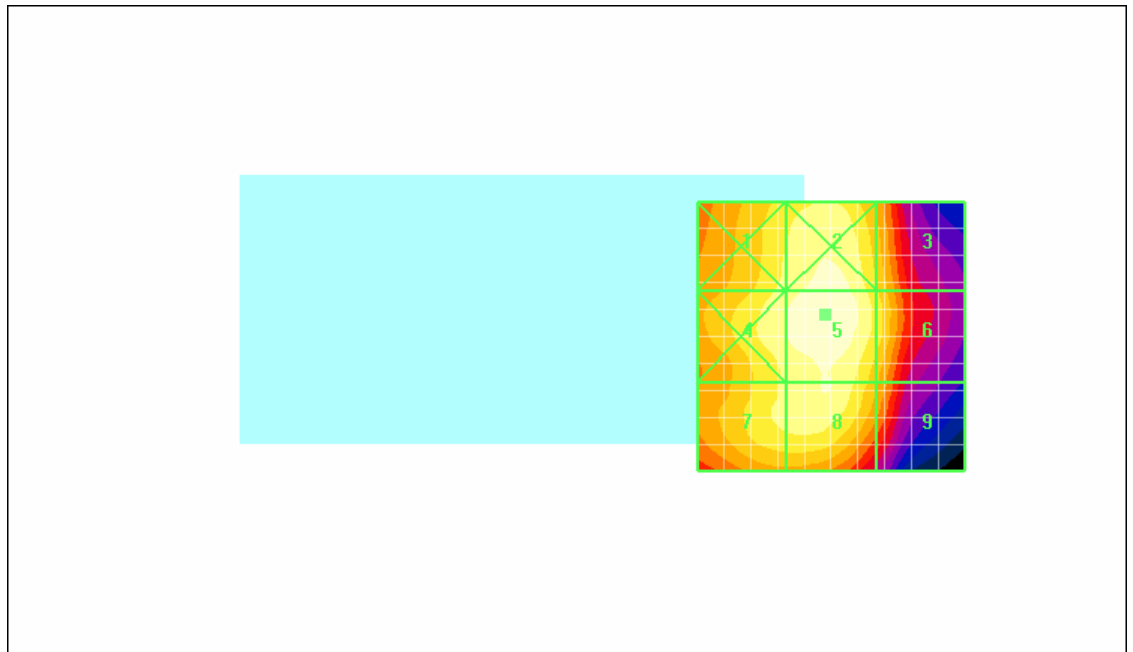
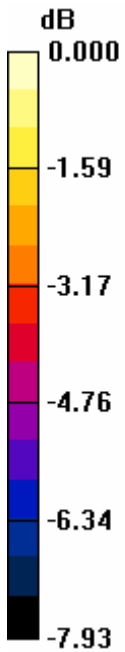
Reference Value = 51.2 V/m; Power Drift = -0.113 dB

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

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Peak E-field in V/m

Grid	Grid	Grid
126.1	135.0	116.7
Grid	Grid	Grid
130.9	138.6	119.8
Grid	Grid	Grid



0 dB = 138.6V/m

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Date/Time: 21/08/2007 11:21:10 PM

Test Laboratory: RTS

HAC_E_CDMA1900_sprk_cent_low_chan_RC1_SO2_FR

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Communication System: CDMA 1900; 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

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 12/03/2007
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid:

dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 66.0 V/m

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

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 59.7 V/m; Power Drift = -0.176 dB

Maximum value of Total (measured) = 67.6 V/m

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

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

Maximum value of peak Total field = 64.7 V/m

Probe Modulation Factor = 0.970

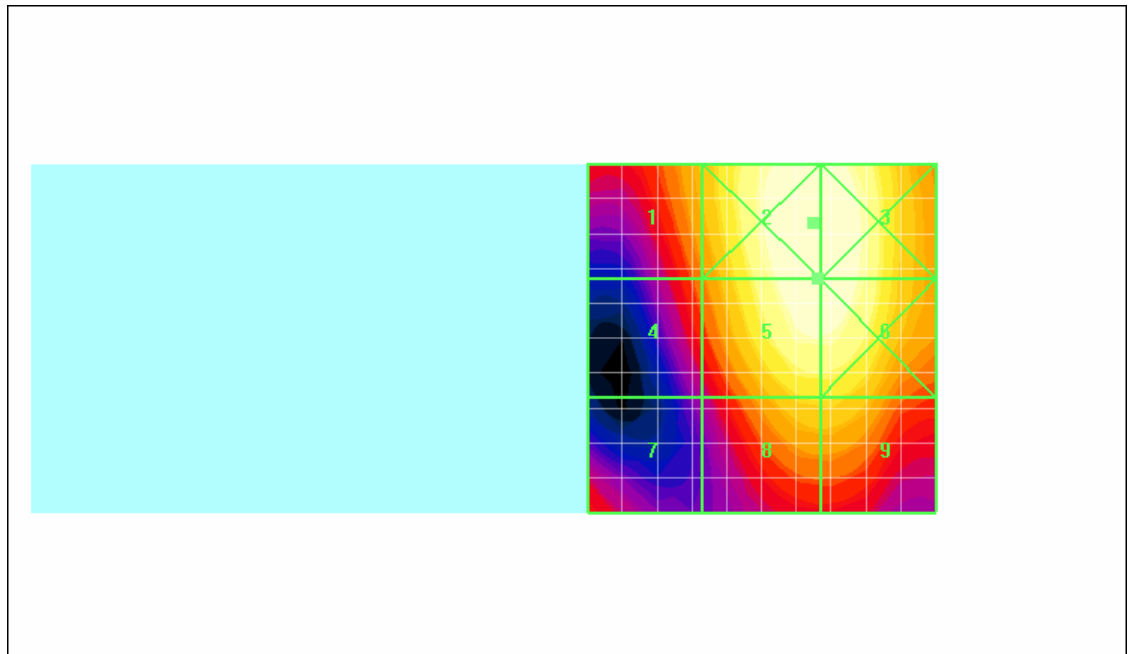
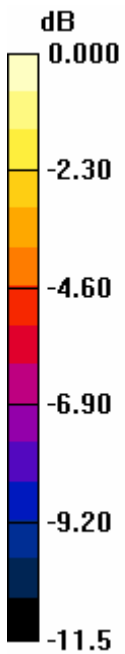
Reference Value = 59.7 V/m; Power Drift = -0.176 dB

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

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Peak E-field in V/m

Grid	Grid	Grid
47.2	66.3	66.1
Grid	Grid	Grid
41.7	64.7	64.7
Grid	Grid	Grid



0 dB = 66.3V/m

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Date/Time: 21/08/2007 11:43:03 PM

Test Laboratory: RTS

HAC_E_CDMA1900_sprk_cent_mid_chan_RC1_SO2_FR

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Communication System: CDMA 1900; 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

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 12/03/2007
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid:

dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 63.0 V/m

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

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 55.6 V/m; Power Drift = 0.031 dB

Maximum value of Total (measured) = 65.1 V/m

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

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

Maximum value of peak Total field = 61.9 V/m

Probe Modulation Factor = 0.970

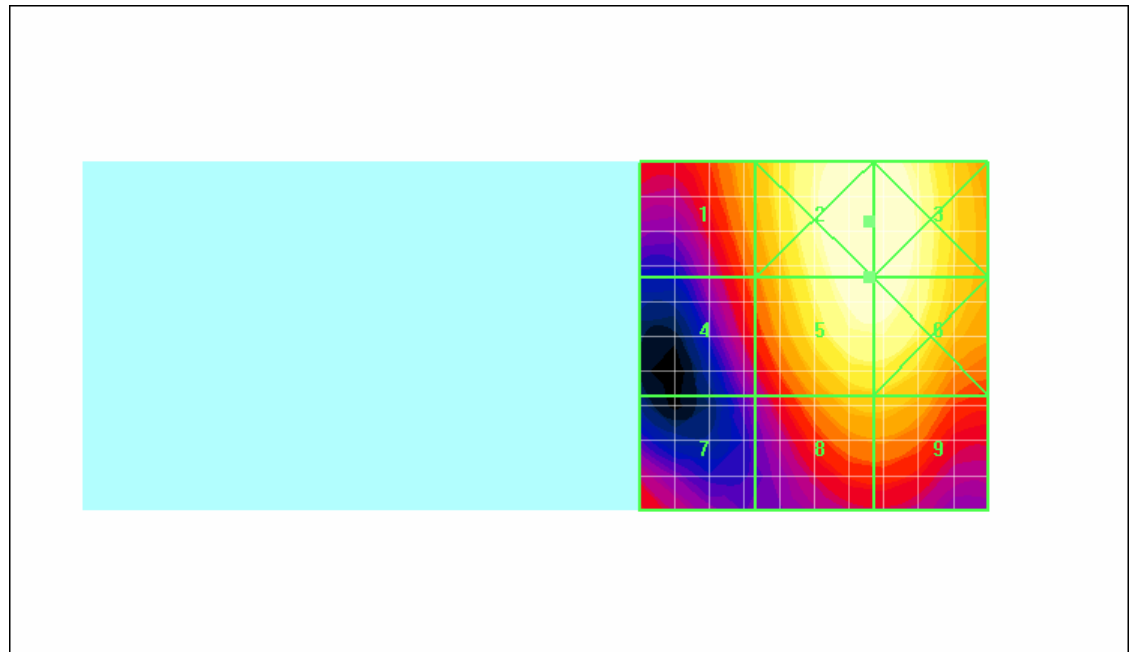
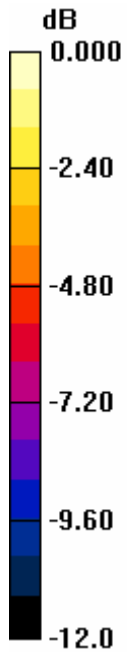
Reference Value = 55.6 V/m; Power Drift = 0.031 dB

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

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Peak E-field in V/m

Grid	Grid	Grid
44.6	64.0	63.9
Grid	Grid	Grid
38.9	61.9	61.9
Grid	Grid	Grid



0 dB = 64.0V/m

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Date/Time: 21/08/2007 11:51:44 PM

Test Laboratory: RTS

HAC_E_CDMA1900_sprk_cent_high_chan_RC1_SO2_FR

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Communication System: CDMA 1900; Frequency: 1908.5 MHz; Duty Cycle: 1:1

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

Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 12/03/2007
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid:

dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 59.2 V/m

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

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 49.9 V/m; Power Drift = -0.078 dB

Maximum value of Total (measured) = 60.8 V/m

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

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

Maximum value of peak Total field = 57.5 V/m

Probe Modulation Factor = 0.970

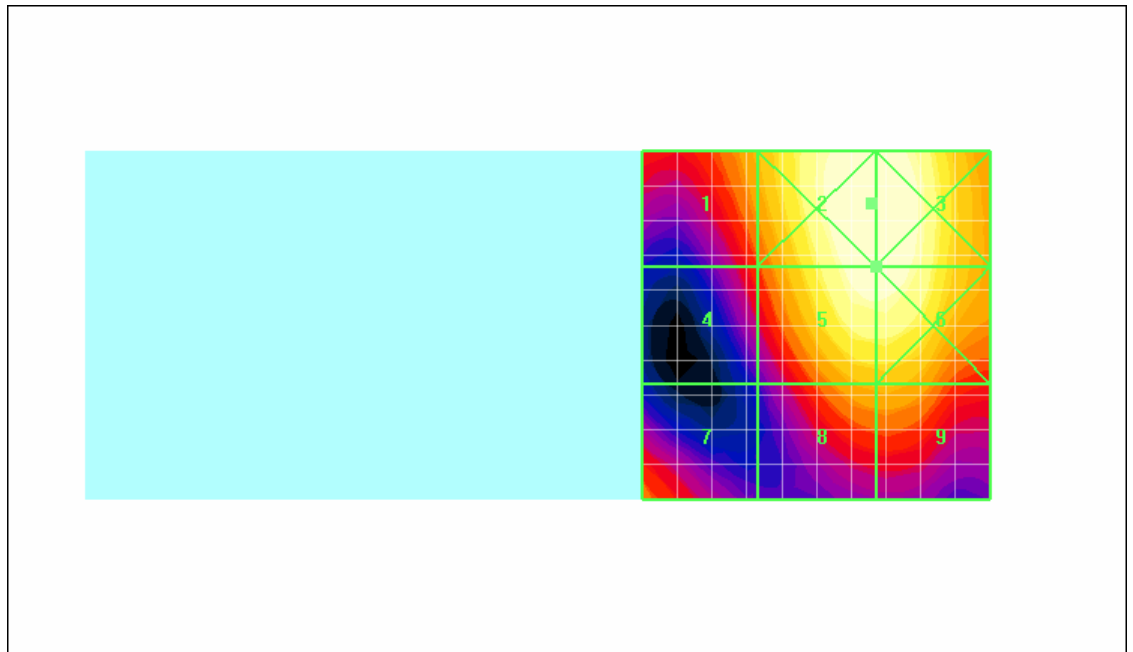
Reference Value = 49.9 V/m; Power Drift = -0.078 dB

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

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Peak E-field in V/m

Grid	Grid	Grid
42.2	59.7	59.7
Grid	Grid	Grid
35.1	57.5	57.5
Grid	Grid	Grid



0 dB = 59.7V/m

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Date/Time: 22/08/2007 12:05:31 AM

Test Laboratory: RTS

HAC_E_CDMA1900_sprk_cent_low_chan_RC1_SO3_eighth

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Communication System: CDMA 1900; 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

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 12/03/2007
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid:

dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 22.5 V/m

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

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 20.9 V/m; Power Drift = 0.147 dB

Maximum value of Total (measured) = 27.2 V/m

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

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

Maximum value of peak Total field = 68.2 V/m

Probe Modulation Factor = 2.74

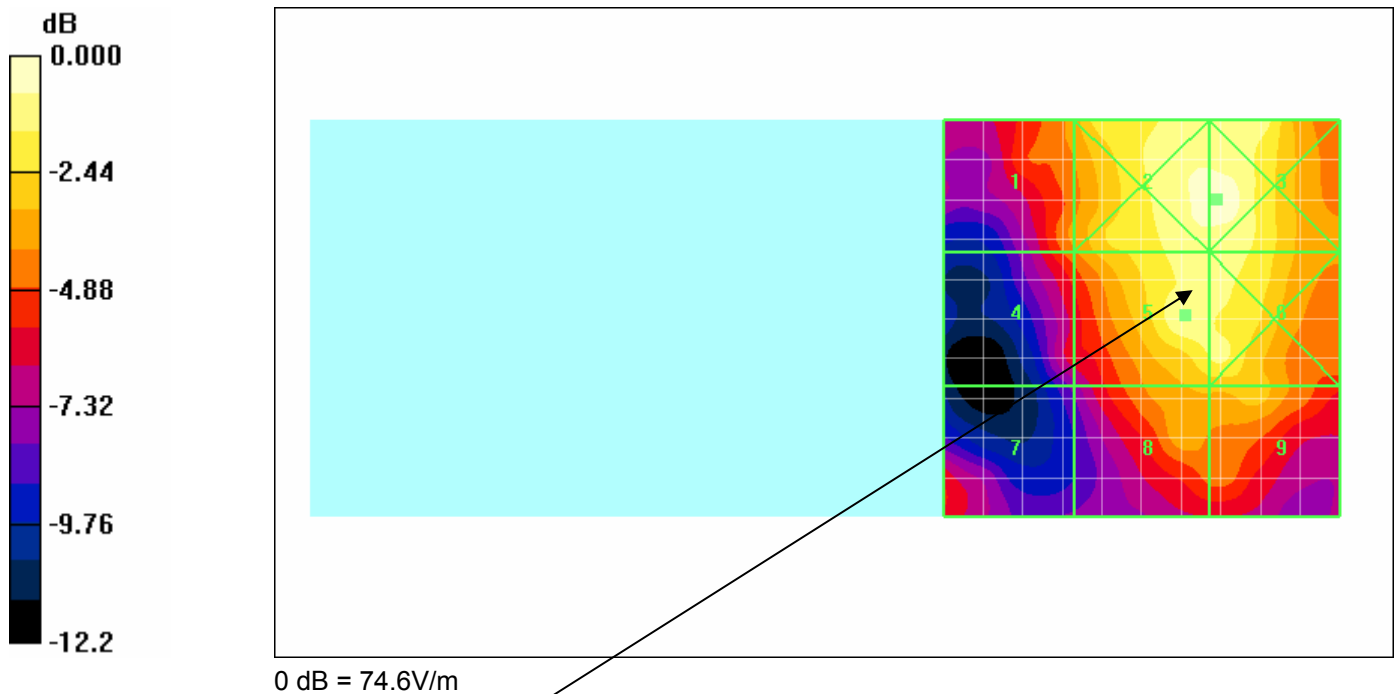
Reference Value = 20.9 V/m; Power Drift = 0.147 dB

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

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Peak E-field in V/m

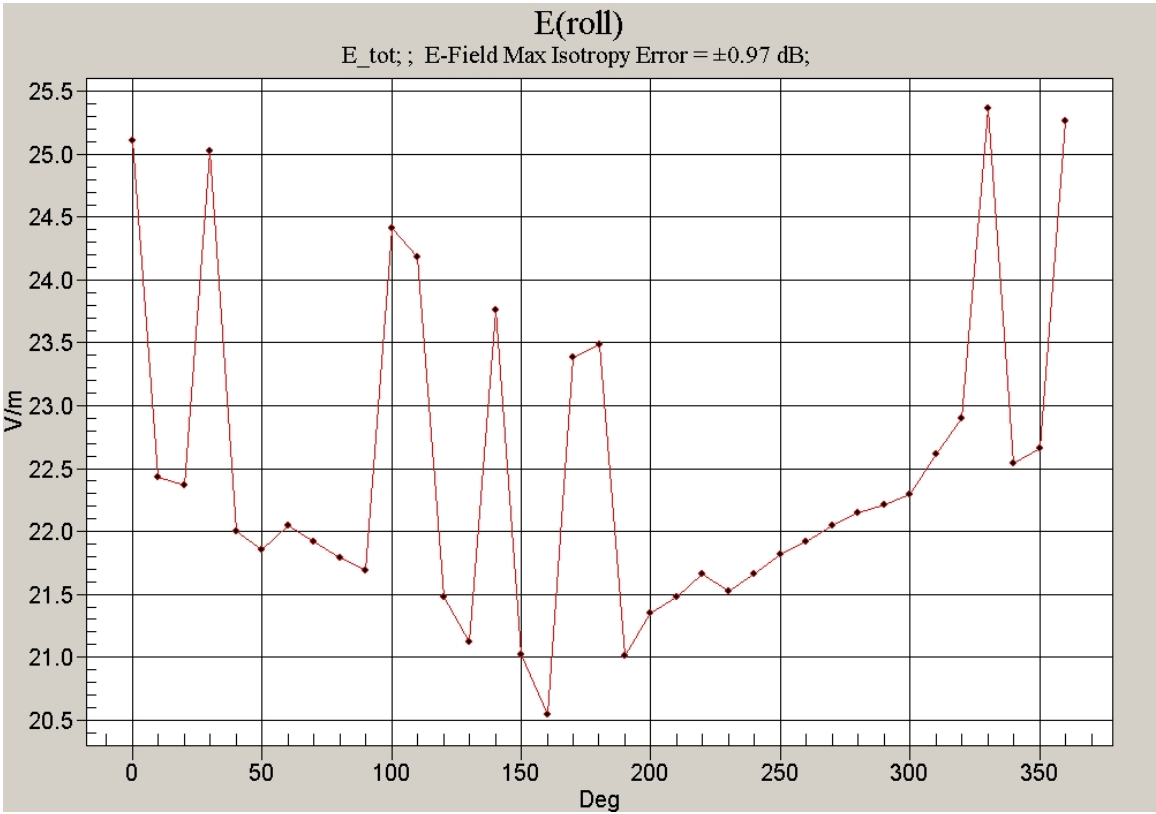
Grid	Grid	Grid
49.4	73.6	74.6
Grid	Grid	Grid
46.2	68.2	65.1
Grid	Grid	Grid



Location of the probe rotation after applying exclusion blocks

$$\begin{aligned}
E(\Delta) &= (E_{\text{max}} - E_{\text{at zero degree}}) * \text{PMF} \\
&= (25.4 - 25.1) * 2.74 \\
&= 0.3 * 2.74 \\
&= 0.82 \text{ V/m}
\end{aligned}$$

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Date/Time: 22/08/2007 11:39:19 AM

Test Laboratory: RTS

HAC_E_CDMA1900_sprk_cent_low_chan_RC3_SO2_FR

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Communication System: CDMA 1900; 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

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 12/03/2007
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid:

dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 68.1 V/m

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

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 63.5 V/m; Power Drift = -0.226 dB

Maximum value of Total (measured) = 70.8 V/m

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

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

Maximum value of peak Total field = 67.2 V/m

Probe Modulation Factor = 0.970

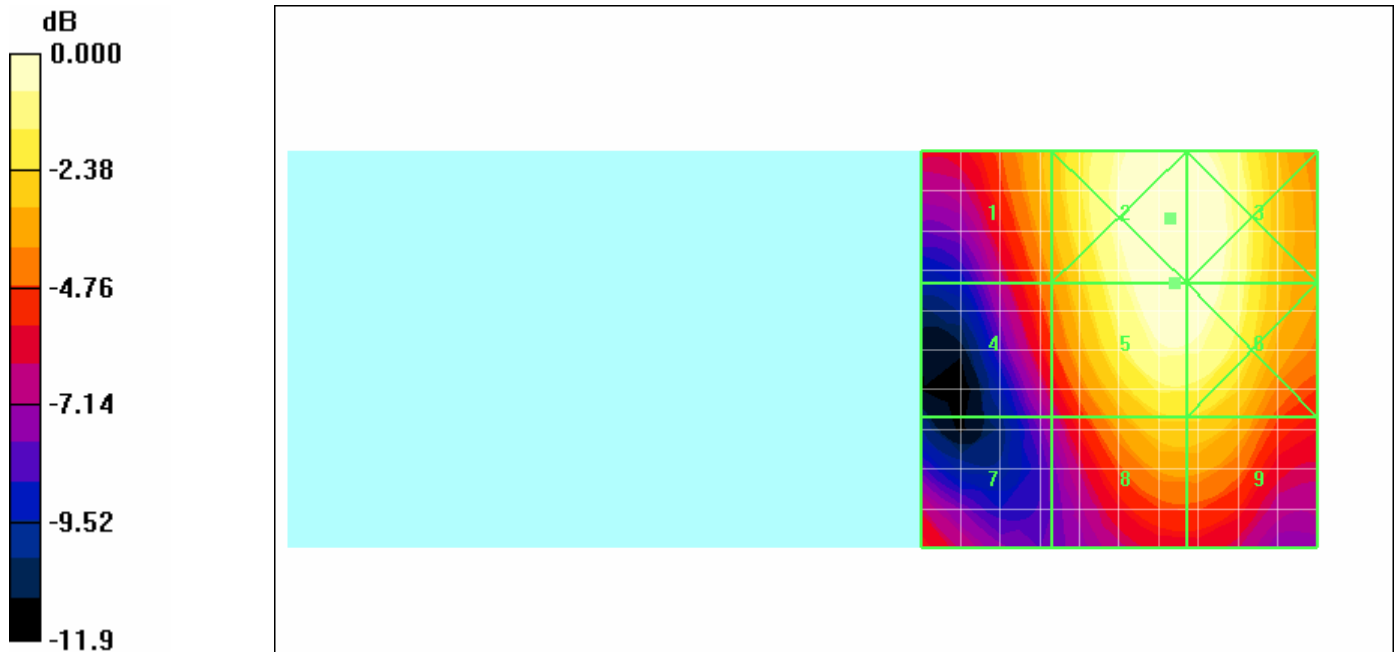
Reference Value = 63.5 V/m; Power Drift = -0.226 dB

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

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Peak E-field in V/m

Grid	Grid	Grid
49.8	69.1	68.6
Grid	Grid	Grid
43.8	67.2	67.0
Grid	Grid	Grid



0 dB = 69.1V/m

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Date/Time: 22/08/2007 11:15:25 AM

Test Laboratory: RTS

HAC_E_CDMA1900_sprk_cent_low_chan_RC3_SO3_FR

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Communication System: CDMA 1900; 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

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 12/03/2007
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid:

dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 65.4 V/m

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

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 59.7 V/m; Power Drift = -0.179 dB

Maximum value of Total (measured) = 67.5 V/m

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

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

Maximum value of peak Total field = 64.0 V/m

Probe Modulation Factor = 0.970

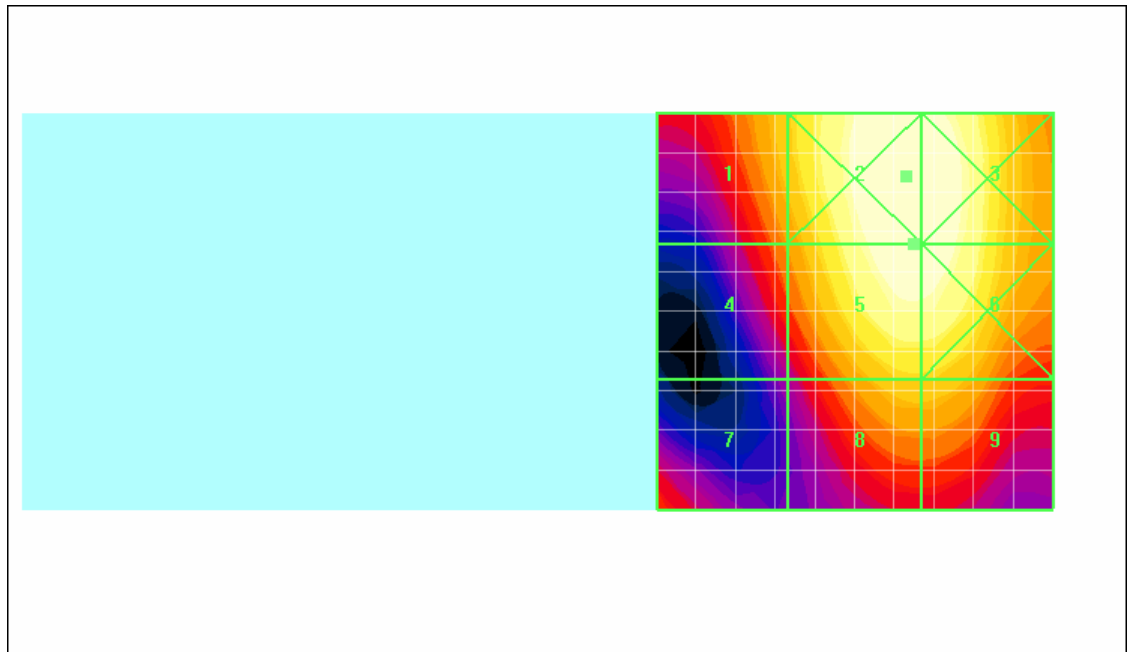
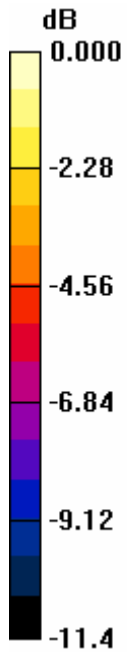
Reference Value = 59.7 V/m; Power Drift = -0.179 dB

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

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Peak E-field in V/m

Grid	Grid	Grid
49.0	65.9	65.4
Grid	Grid	Grid
42.9	64.0	63.8
Grid	Grid	Grid



0 dB = 65.9V/m

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Date/Time: 22/08/2007 11:51:51 AM

Test Laboratory: RTS

HAC_E_CDMA1900_sprk_cent_low_chan_RC2_SO9_FR

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Communication System: CDMA 1900; 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

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 12/03/2007
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid:

dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 66.6 V/m

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

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 61.3 V/m; Power Drift = -0.166 dB

Maximum value of Total (measured) = 68.1 V/m

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

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

Maximum value of peak Total field = 64.6 V/m

Probe Modulation Factor = 0.970

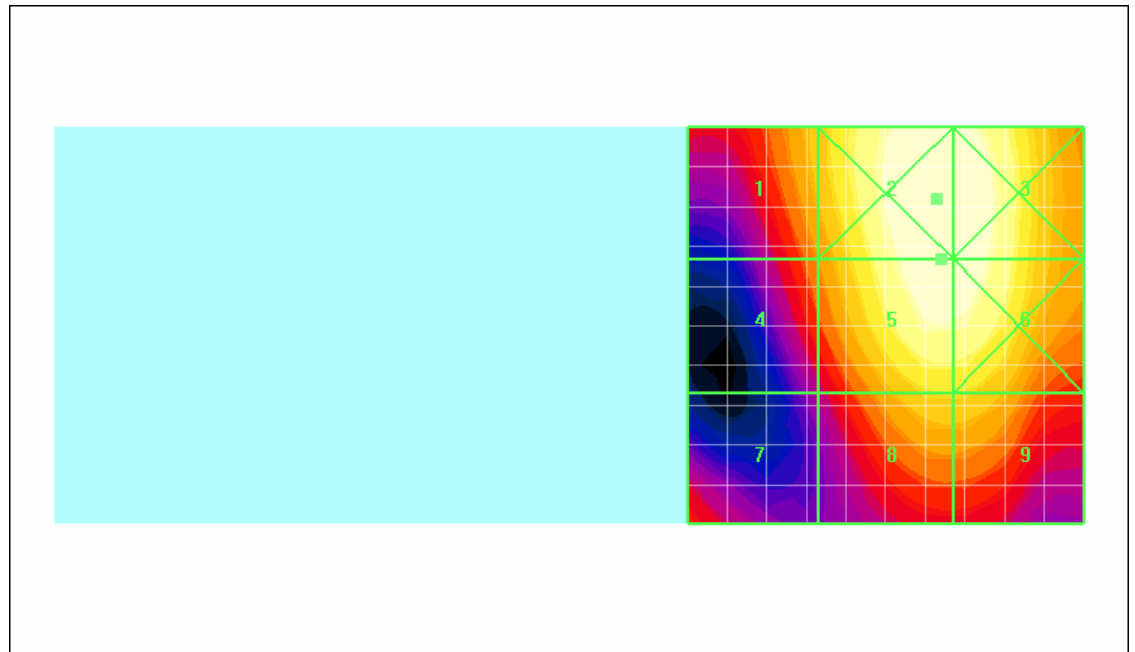
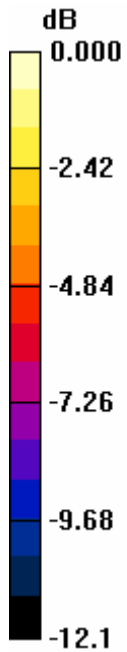
Reference Value = 61.3 V/m; Power Drift = -0.166 dB

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

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Peak E-field in V/m

Grid	Grid	Grid
47.8	66.4	65.9
Grid	Grid	Grid
41.9	64.6	64.3
Grid	Grid	Grid



0 dB = 66.4V/m

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Date/Time: 22/08/2007 12:03:18 PM

Test Laboratory: RTS

HAC_E_CDMA1900_T-Coil_cent_low_chan_RC3_SO2_FR

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Communication System: CDMA 1900; 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

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 12/03/2007
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid:

dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 64.5 V/m

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

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 61.2 V/m; Power Drift = -0.135 dB

Maximum value of Total (measured) = 68.7 V/m

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

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

Maximum value of peak Total field = 62.9 V/m

Probe Modulation Factor = 0.970

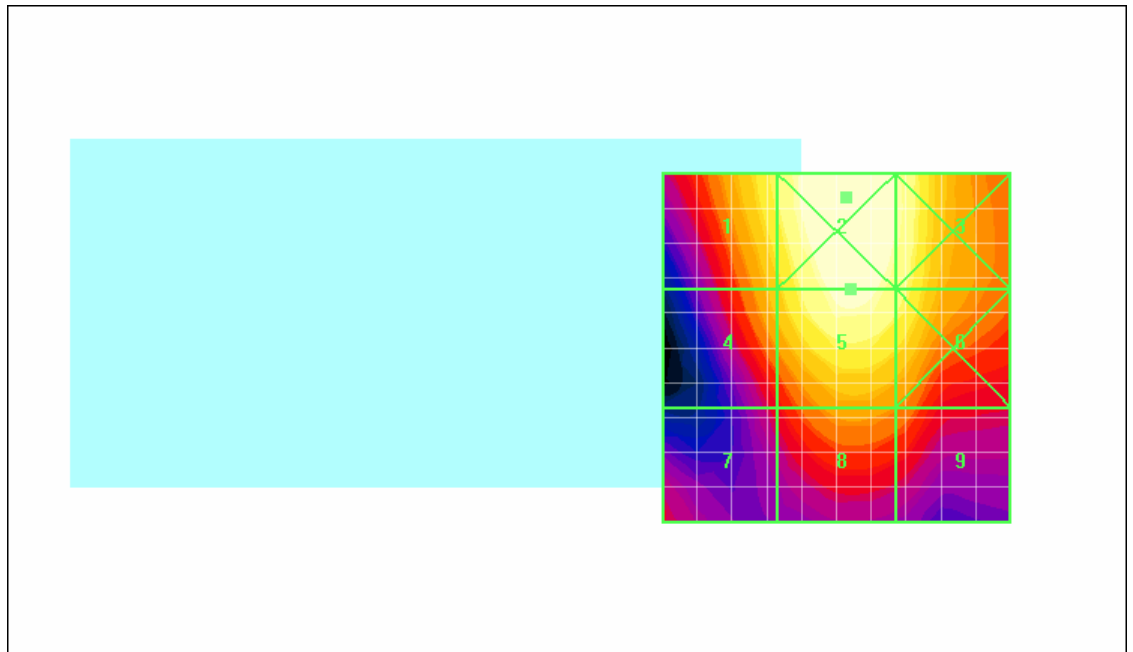
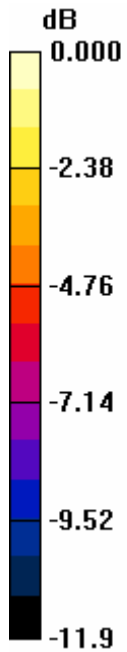
Reference Value = 61.2 V/m; Power Drift = -0.135 dB

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

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Peak E-field in V/m

Grid	Grid	Grid
56.4	67.1	61.5
Grid	Grid	Grid
49.4	62.9	58.3
Grid	Grid	Grid



0 dB = 67.1V/m

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Date/Time: 22/08/2007 3:05:17 PM

Test Laboratory: RTS

HAC_H_CDMA800_spkr_cent_low_chan_RC1_SO2_FR

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 824.7 MHz; Duty Cycle: 1:1

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

Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 15/11/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 0.105 A/m; Power Drift = 0.028 dB

Maximum value of Total (measured) = 0.197 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement

grid: dx=20mm, dy=20mm, dz=5mm

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 0.203 A/m

Probe Modulation Factor = 1.03

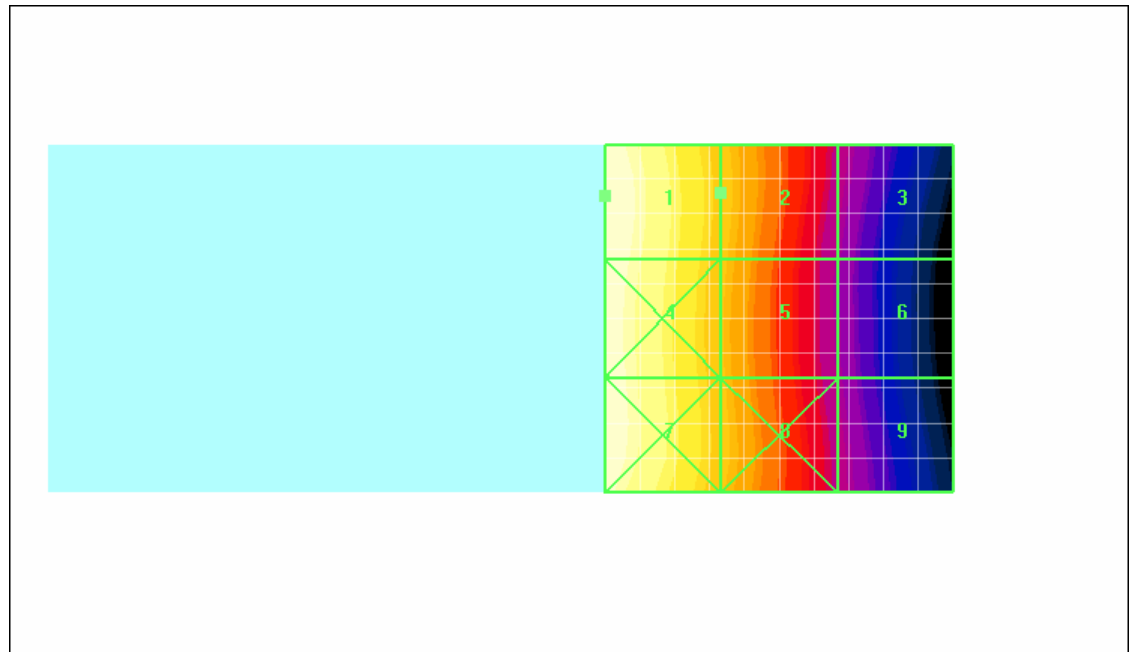
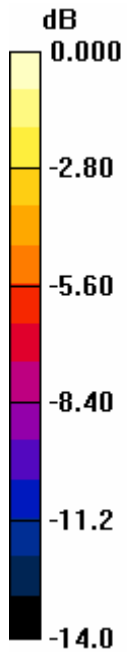
Reference Value = 0.105 A/m; Power Drift = 0.028 dB

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

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Peak H-field in A/m

Grid	Grid	Grid
0.203	0.143	0.084
Grid	Grid	Grid
0.200	0.141	0.079
Grid	Grid	Grid



0 dB = 0.203A/m

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Date/Time: 22/08/2007 3:16:46 PM

Test Laboratory: RTS

HAC_H_CDMA800_spkr_cent_mid_chan_RC1_SO2_FR

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 824.7 MHz; Duty Cycle: 1:1

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

Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 15/11/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 0.097 A/m; Power Drift = -0.054 dB

Maximum value of Total (measured) = 0.183 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 0.189 A/m

Probe Modulation Factor = 1.03

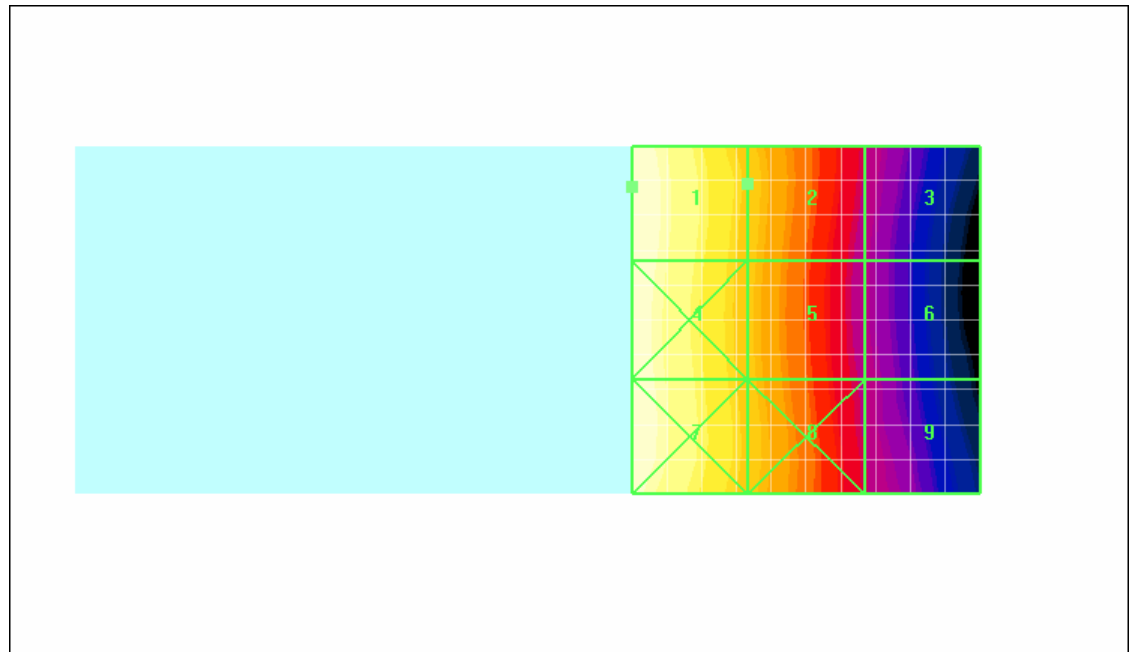
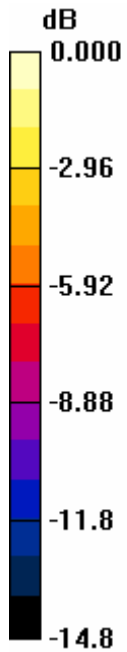
Reference Value = 0.097 A/m; Power Drift = -0.054 dB

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

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Peak H-field in A/m

Grid	Grid	Grid
0.189	0.132	0.077
Grid	Grid	Grid
0.186	0.129	0.074
Grid	Grid	Grid



0 dB = 0.189A/m

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Date/Time: 22/08/2007 3:23:41 PM

Test Laboratory: RTS

HAC_H_CDMA800_sprk_cent_high_chan_RC1_SO2_FR

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 848.52 MHz; Duty Cycle: 1:1

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

Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 15/11/2006
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 0.103 A/m; Power Drift = -0.015 dB

Maximum value of Total (measured) = 0.189 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement

grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 0.187 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 0.195 A/m

Probe Modulation Factor = 1.03

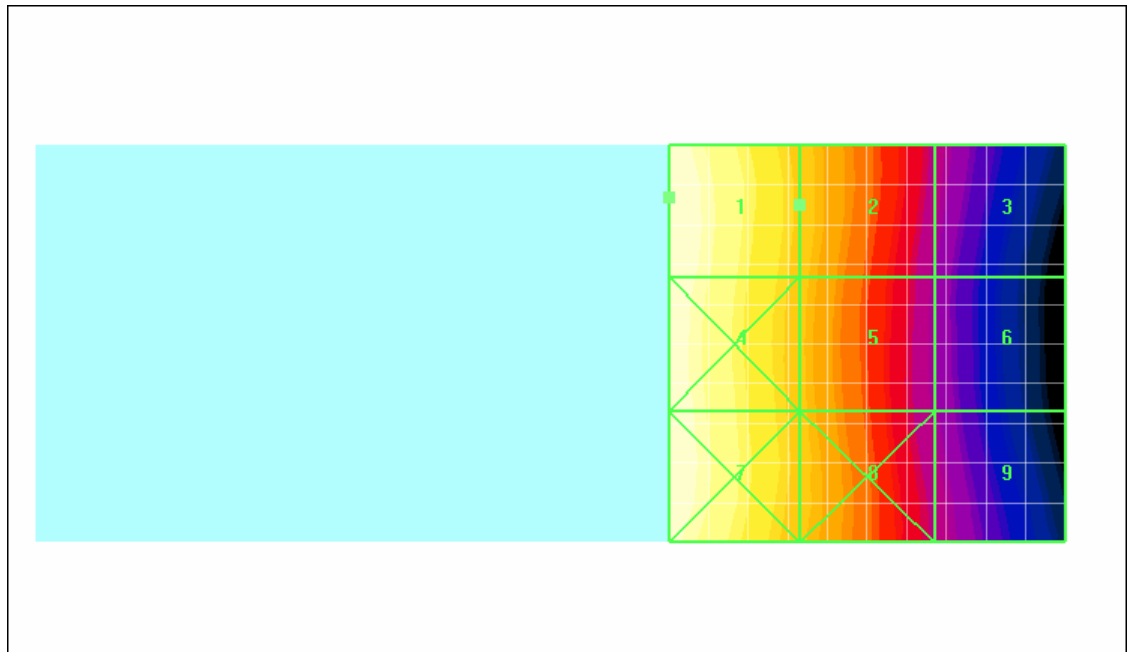
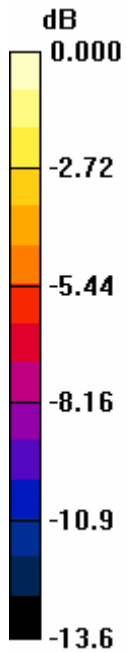
Reference Value = 0.103 A/m; Power Drift = -0.015 dB

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

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Peak H-field in A/m

Grid	Grid	Grid
0.195	0.140	0.083
Grid	Grid	Grid
0.192	0.137	0.078
Grid	Grid	Grid



0 dB = 0.195A/m

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Date/Time: 22/08/2007 3:31:39 PM

Test Laboratory: RTS

HAC_H_CDMA800_spkr_cent_low_chan_RC1_SO3_eighth

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 824.7 MHz; Duty Cycle: 1:8

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

Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 15/11/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 0.046 A/m; Power Drift = 0.406 dB

Maximum value of Total (measured) = 0.095 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement

grid: dx=20mm, dy=20mm, dz=5mm

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 0.255 A/m

Probe Modulation Factor = 2.70

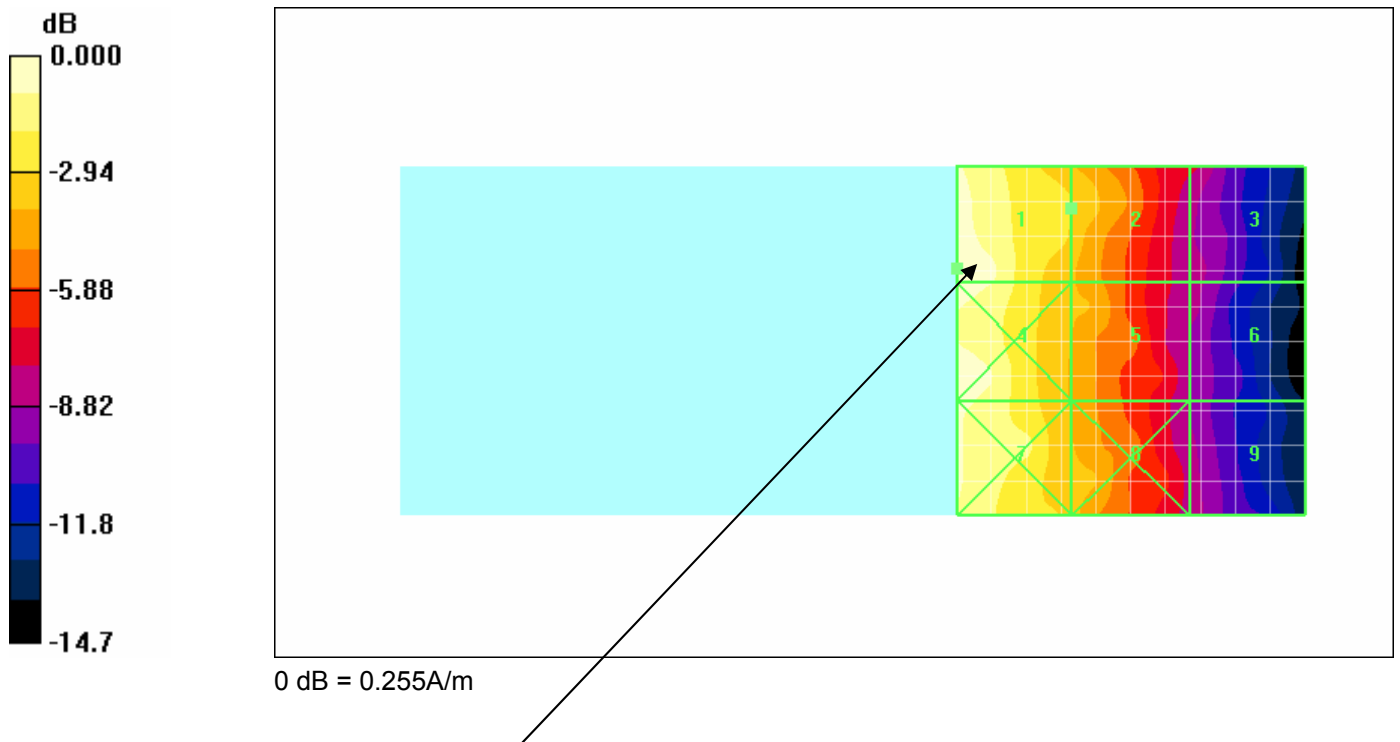
Reference Value = 0.046 A/m; Power Drift = 0.406 dB

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

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Peak H-field in A/m

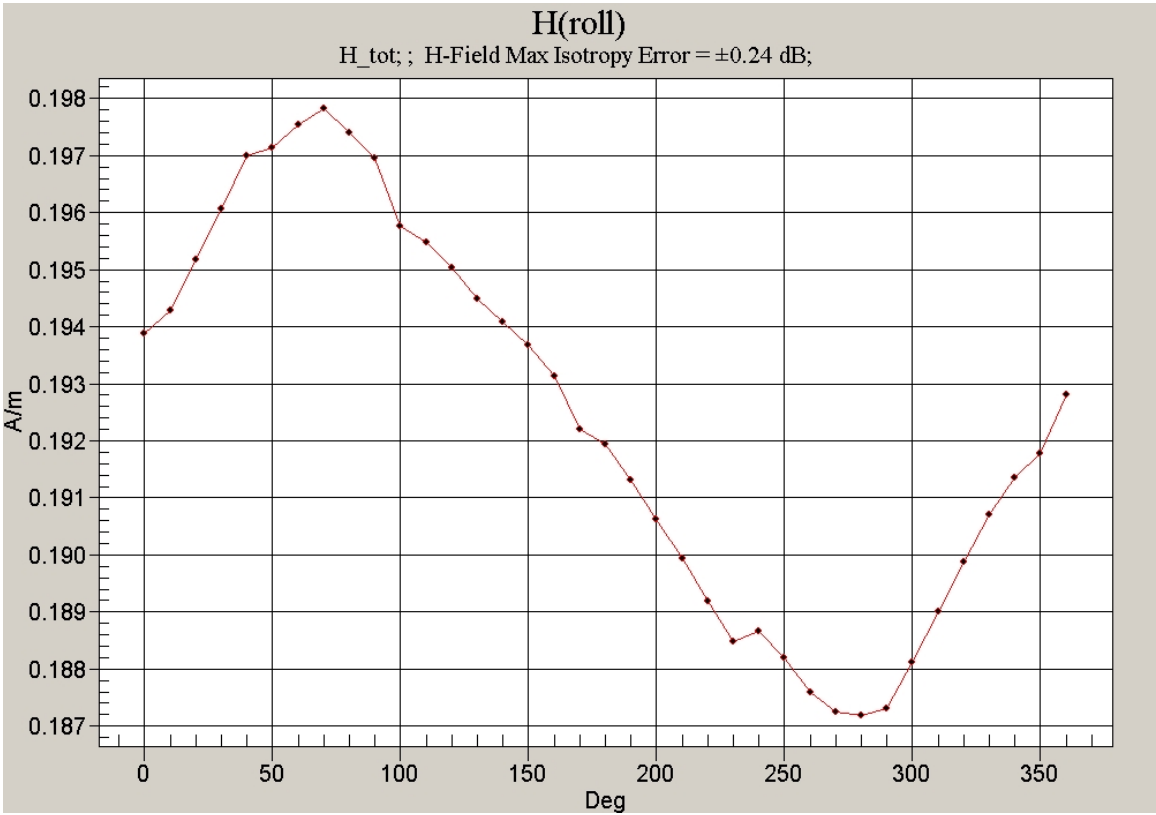
Grid	Grid	Grid
0.255	0.183	0.107
Grid	Grid	Grid
0.251	0.165	0.099
Grid	Grid	Grid



Location of the probe rotation after applying exclusion blocks

$$\begin{aligned}
E(\Delta) &= (H_{\max} - H_{\text{at zero degree}}) * PMF \\
&= (0.198 - 0.194) * 1.05 \\
&= 0.004 * 1.05 \\
&= 0.0042 \text{ A/m}
\end{aligned}$$

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Date/Time: 22/08/2007 3:38:28 PM

Test Laboratory: RTS

HAC_H_CDMA800_T_Coil_cent_low_chan_RC1_SO3_eighth

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 824.7 MHz; Duty Cycle: 1:8

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

Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 15/11/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 0.052 A/m; Power Drift = -0.030 dB

Maximum value of Total (measured) = 0.089 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement

grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 0.082 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 0.240 A/m

Probe Modulation Factor = 2.70

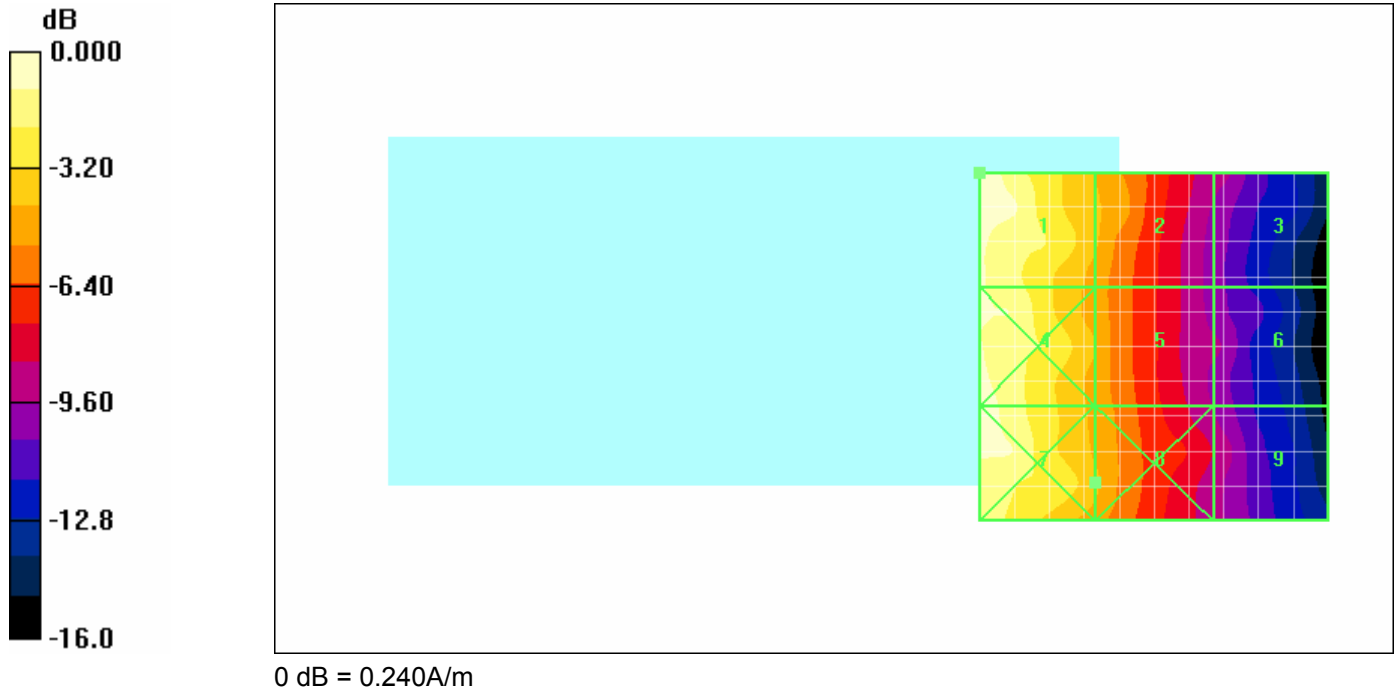
Reference Value = 0.052 A/m; Power Drift = -0.030 dB

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

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Peak H-field in A/m

Grid	Grid	Grid
0.240	0.151	0.088
Grid	Grid	Grid
0.234	0.147	0.082
Grid	Grid	Grid



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Date/Time: 21/08/2007 3:59:54 PM

Test Laboratory: RTS

HAC_H_CDMA1900_sprk_cent_low_chan_RC1_SO2_FR

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1

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

Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 15/11/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 0.126 A/m; Power Drift = -0.084 dB

Maximum value of Total (measured) = 0.196 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement

grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 0.192 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 0.159 A/m

Probe Modulation Factor = 1.05

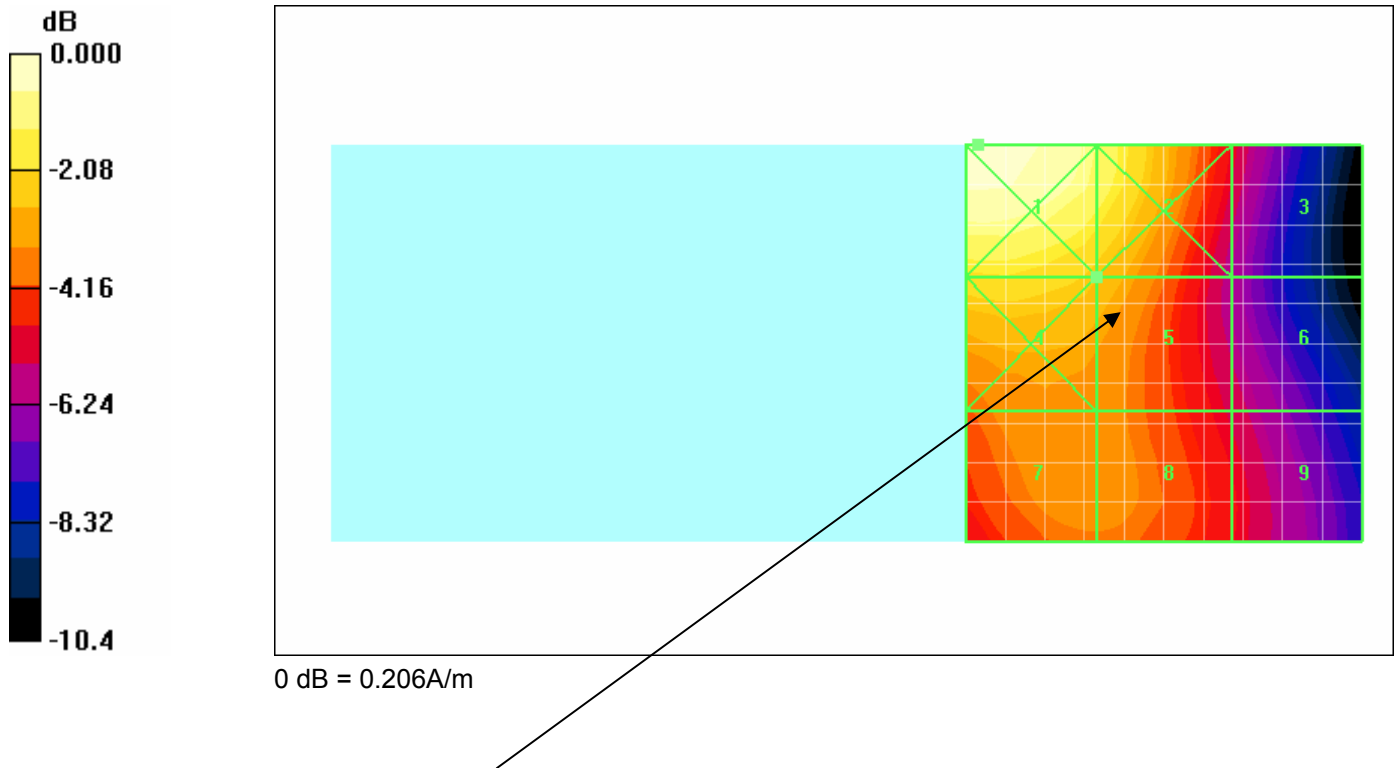
Reference Value = 0.126 A/m; Power Drift = -0.084 dB

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

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Peak H-field in A/m

Grid	Grid	Grid
0.206	0.185	0.118
Grid	Grid	Grid
0.170	0.159	0.113
Grid	Grid	Grid



Location of the probe rotation after applying exclusion blocks

$$\begin{aligned}
H(\delta) &= (H_{\max} - H_{\text{at zero degree}}) * PMF \\
&= (x - y) * 1.05 \\
&= z * 1.05 \\
&=
\end{aligned}$$

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Date/Time: 21/08/2007 4:10:42 PM

Test Laboratory: RTS

HAC_H_CDMA1900_sprk_cent_mid_chan_RC1_SO2_FR

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Communication System: CDMA 1900; Frequency: 1880 MHz;Duty Cycle: 1:1

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

Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 15/11/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 0.122 A/m; Power Drift = -0.150 dB

Maximum value of Total (measured) = 0.190 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement

grid: dx=20mm, dy=20mm, dz=5mm

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 0.149 A/m

Probe Modulation Factor = 1.05

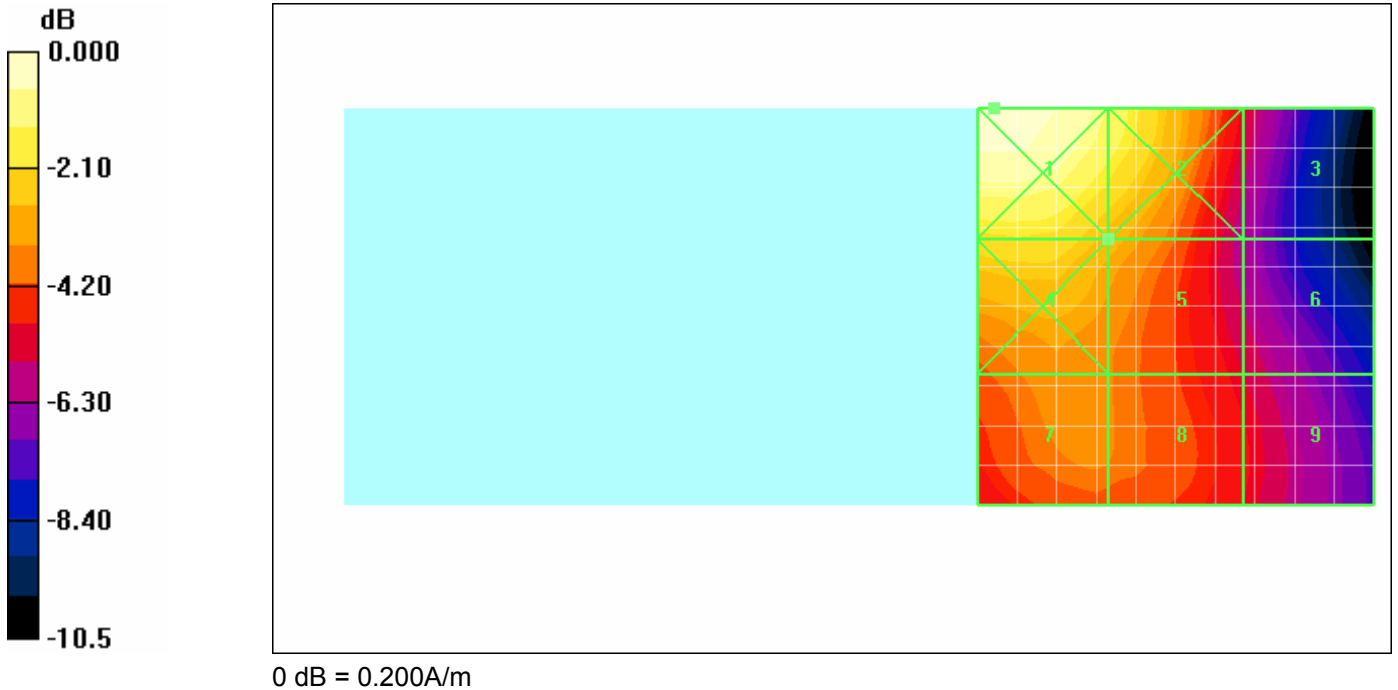
Reference Value = 0.122 A/m; Power Drift = -0.150 dB

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

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Peak H-field in A/m

Grid	Grid	Grid
0.200	0.179	0.113
Grid	Grid	Grid
0.165	0.149	0.111
Grid	Grid	Grid



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Date/Time: 21/08/2007 4:24:41 PM

Test Laboratory: RTS

HAC_H_CDMA1900_sprk_cent_high_chan_RC1_SO2_FR

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Communication System: CDMA 1900; Frequency: 1908.5 MHz; Duty Cycle: 1:1

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

Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 15/11/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 0.111 A/m; Power Drift = -0.015 dB

Maximum value of Total (measured) = 0.169 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement

grid: dx=20mm, dy=20mm, dz=5mm

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 0.137 A/m

Probe Modulation Factor = 1.05

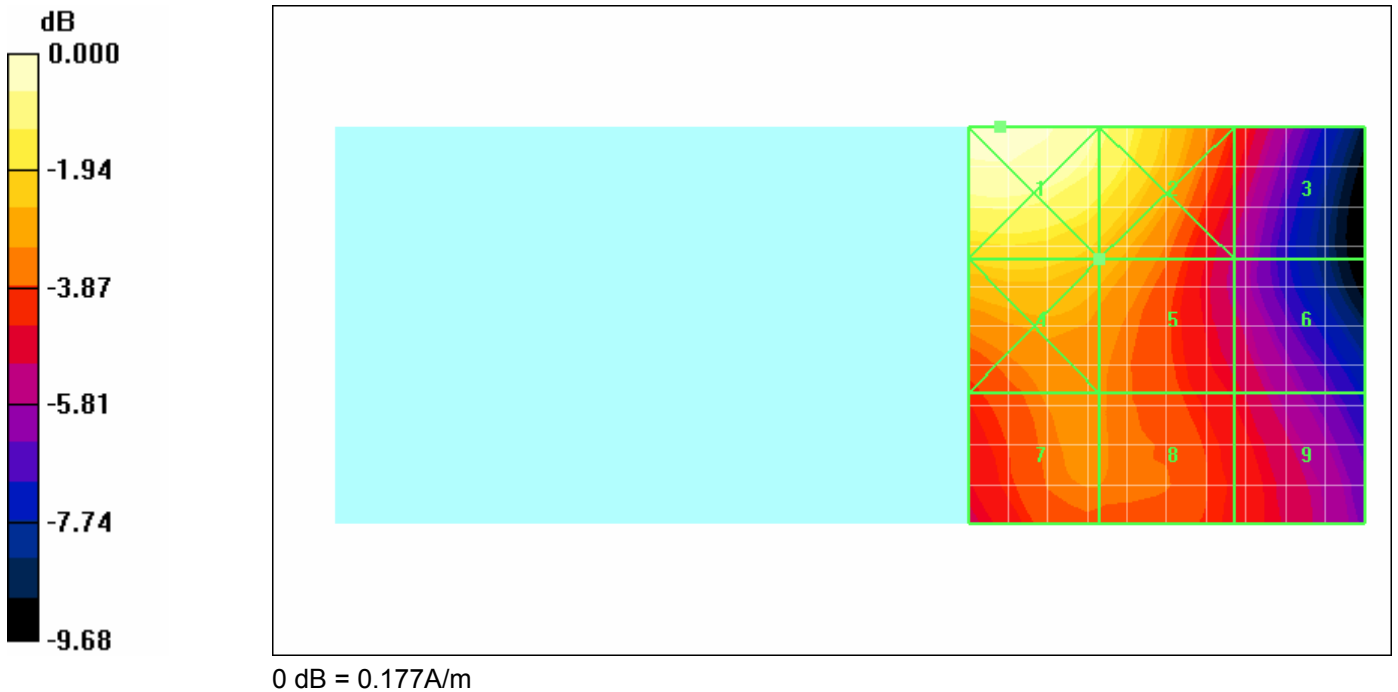
Reference Value = 0.111 A/m; Power Drift = -0.015 dB

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

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Peak H-field in A/m

Grid	Grid	Grid
0.177	0.164	0.112
Grid	Grid	Grid
0.145	0.137	0.105
Grid	Grid	Grid



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Date/Time: 21/08/2007 4:24:41 PM

Test Laboratory: RTS

HAC_H_CDMA1900_sprk_cent_high_chan_RC1_SO2_FR

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Communication System: CDMA 1900; Frequency: 1908.5 MHz; Duty Cycle: 1:1

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

Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 15/11/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 0.111 A/m; Power Drift = -0.015 dB

Maximum value of Total (measured) = 0.169 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement

grid: dx=20mm, dy=20mm, dz=5mm

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 0.137 A/m

Probe Modulation Factor = 1.05

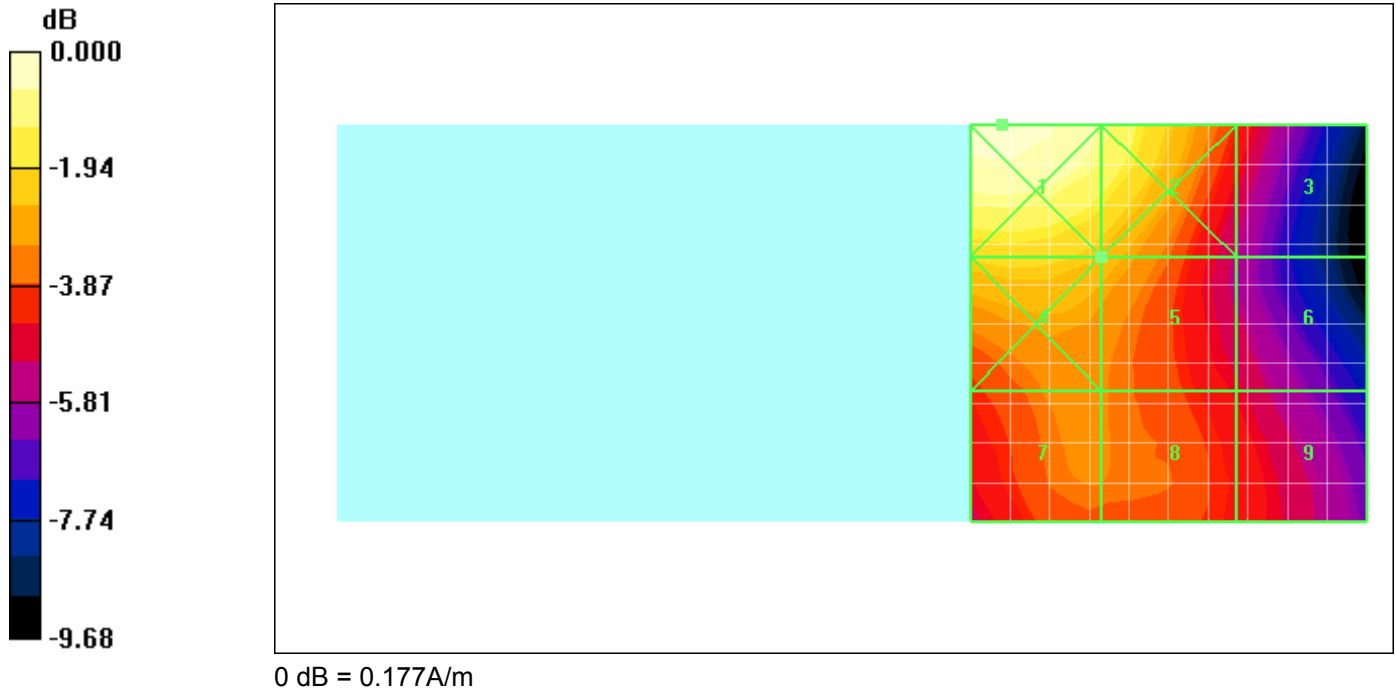
Reference Value = 0.111 A/m; Power Drift = -0.015 dB

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

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Peak H-field in A/m

Grid	Grid	Grid
0.177	0.164	0.112
Grid	Grid	Grid
0.145	0.137	0.105
Grid	Grid	Grid



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Date/Time: 21/08/2007 4:57:33 PM

Test Laboratory: RTS

HAC_H_CDMA1900_spkr_cent_low_chan_RC1_SO3_eighth

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:8

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

Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 15/11/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 0.050 A/m; Power Drift = 0.030 dB

Maximum value of Total (measured) = 0.081 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement

grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 0.073 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 0.144 A/m

Probe Modulation Factor = 2.41

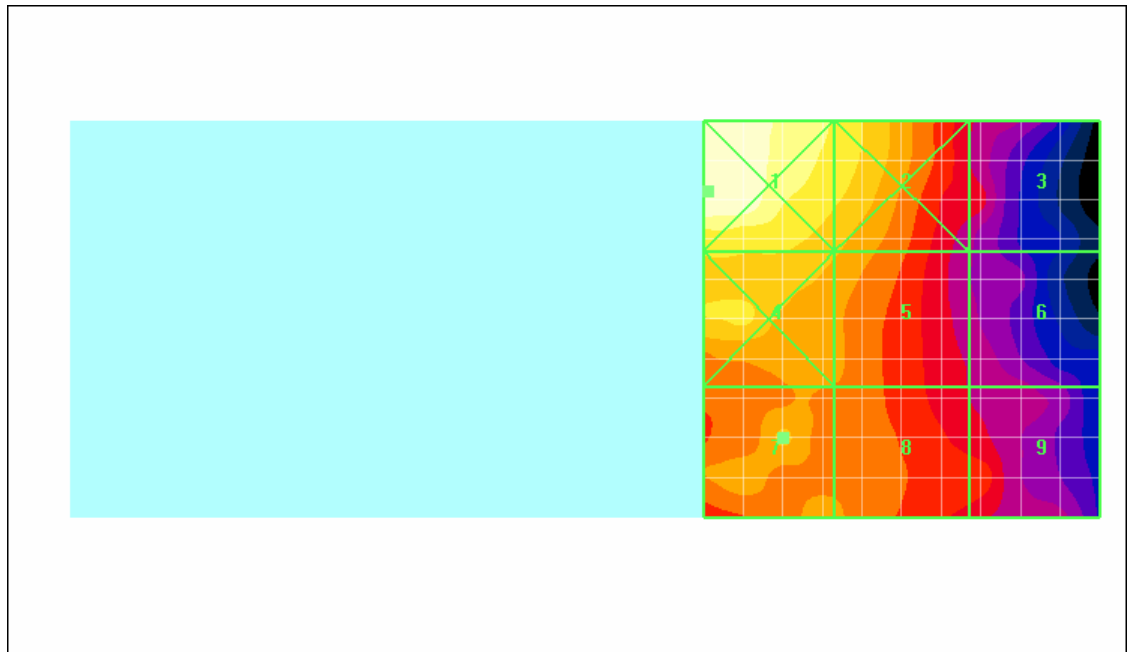
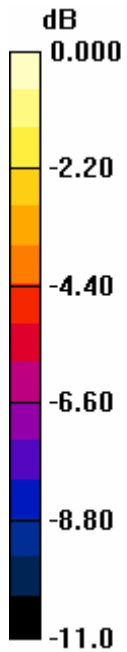
Reference Value = 0.050 A/m; Power Drift = 0.030 dB

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

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Peak H-field in A/m

Grid	Grid	Grid
0.198	0.166	0.108
Grid	Grid	Grid
0.158	0.143	0.101
Grid	Grid	Grid



0 dB = 0.198A/m

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Date/Time: 22/08/2007 2:17:14 PM

Test Laboratory: RTS

HAC_H_CDMA1900_sprk_cent_low_chan_RC3_SO2_FR

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1

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

Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 15/11/2006
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 0.122 A/m; Power Drift = -0.154 dB

Maximum value of Total (measured) = 0.194 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement

grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 0.191 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 0.151 A/m

Probe Modulation Factor = 1.05

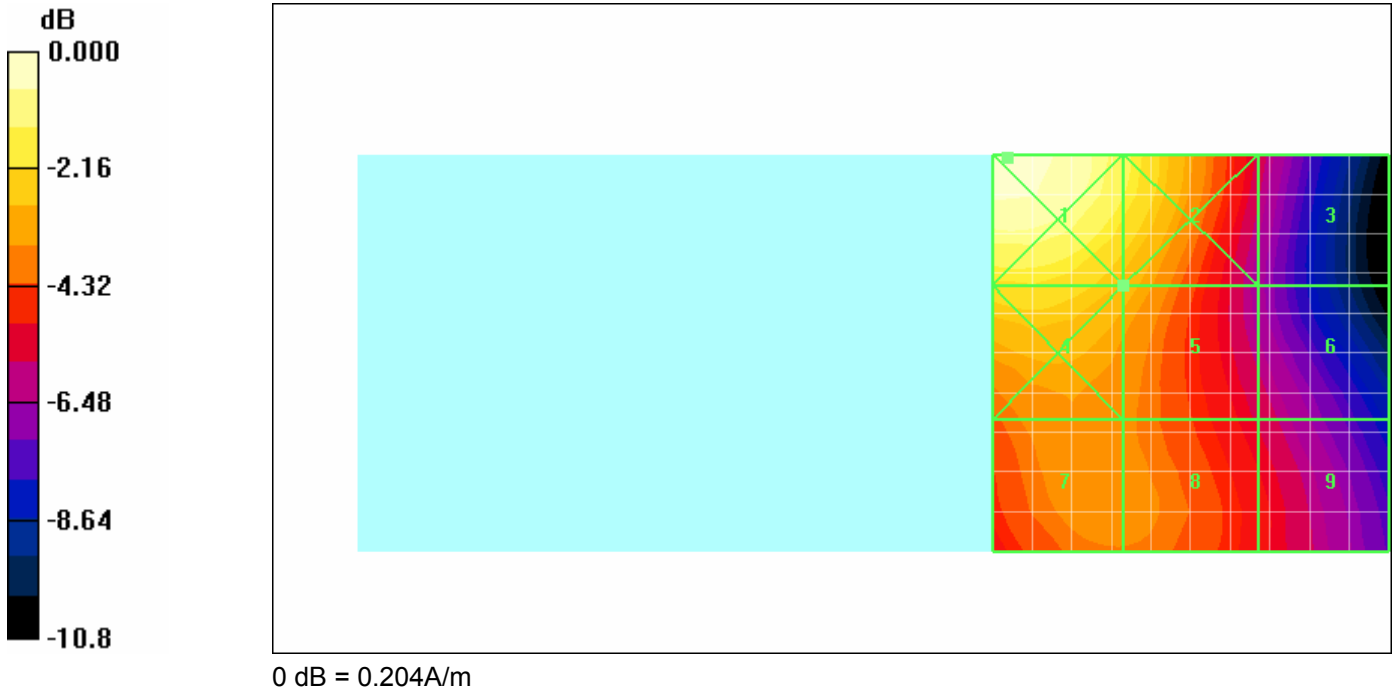
Reference Value = 0.122 A/m; Power Drift = -0.154 dB

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

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Peak H-field in A/m

Grid	Grid	Grid
0.204	0.176	0.109
Grid	Grid	Grid
0.167	0.151	0.110
Grid	Grid	Grid



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Date/Time: 22/08/2007 2:08:30 PM

Test Laboratory: RTS

HAC_H_CDMA1900_sprk_cent_low_chan_RC3_SO3_FR

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1

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

Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 15/11/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 0.122 A/m; Power Drift = 0.006 dB

Maximum value of Total (measured) = 0.196 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement

grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 0.193 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 0.153 A/m

Probe Modulation Factor = 1.05

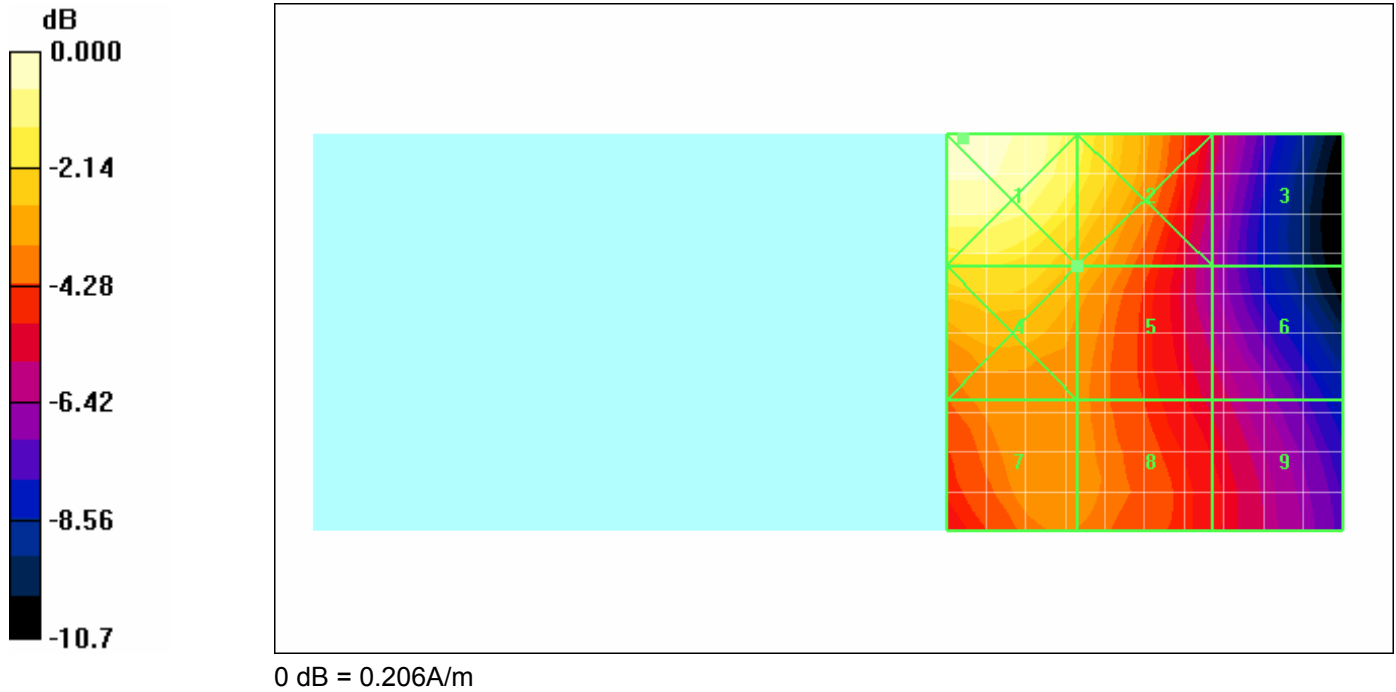
Reference Value = 0.122 A/m; Power Drift = 0.006 dB

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

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Peak H-field in A/m

Grid	Grid	Grid
0.206	0.178	0.111
Grid	Grid	Grid
0.171	0.153	0.111
Grid	Grid	Grid



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Date/Time: 22/08/2007 2:24:06 PM

Test Laboratory: RTS

HAC_H_CDMA1900_spkr_cent_low_chan_RC2_SO9_FR

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1

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

Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 15/11/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 07/03/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 0.120 A/m; Power Drift = -0.125 dB

Maximum value of Total (measured) = 0.192 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 0.150 A/m

Probe Modulation Factor = 1.05

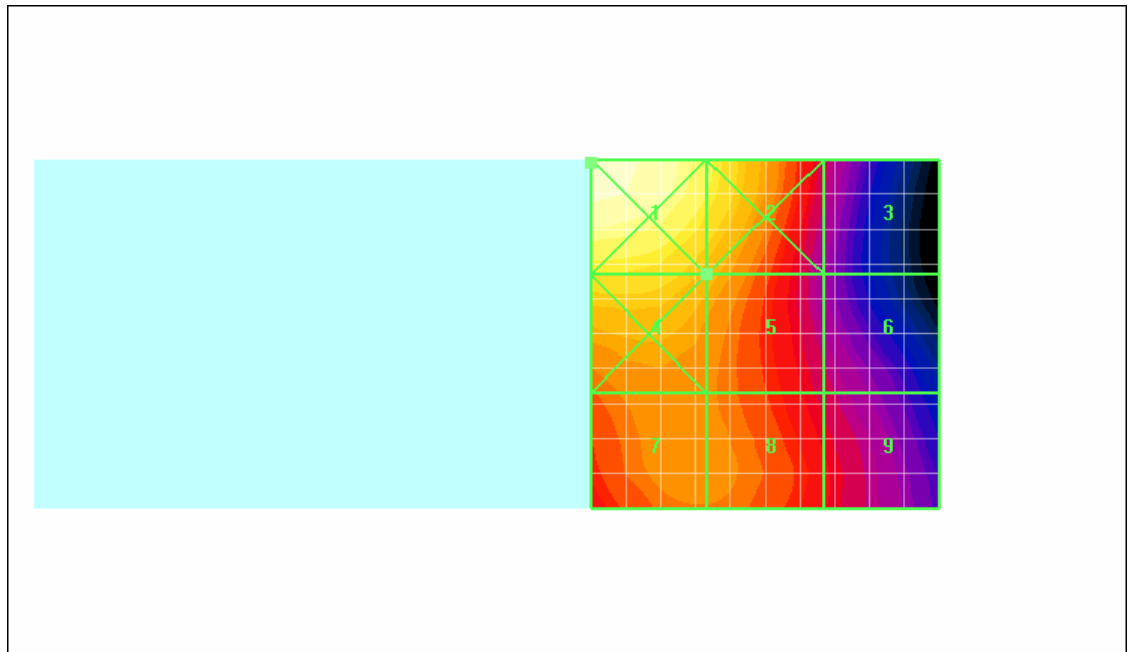
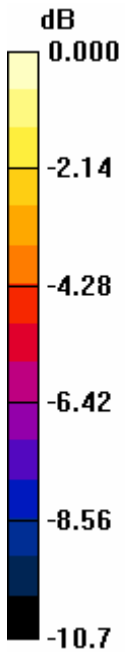
Reference Value = 0.120 A/m; Power Drift = -0.125 dB

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

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Peak H-field in A/m

Grid	Grid	Grid
0.202	0.175	0.108
Grid	Grid	Grid
0.166	0.150	0.108
Grid	Grid	Grid



0 dB = 0.202A/m

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Date/Time: 21/08/2007 5:42:29 PM

Test Laboratory: RTS

HAC_H_CDMA1900_T_coil_cent_low_chan_RC1_SO2_FR

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1

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

Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 15/11/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 0.128 A/m; Power Drift = -0.202 dB

Maximum value of Total (measured) = 0.197 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement

grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 0.193 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 0.146 A/m

Probe Modulation Factor = 1.05

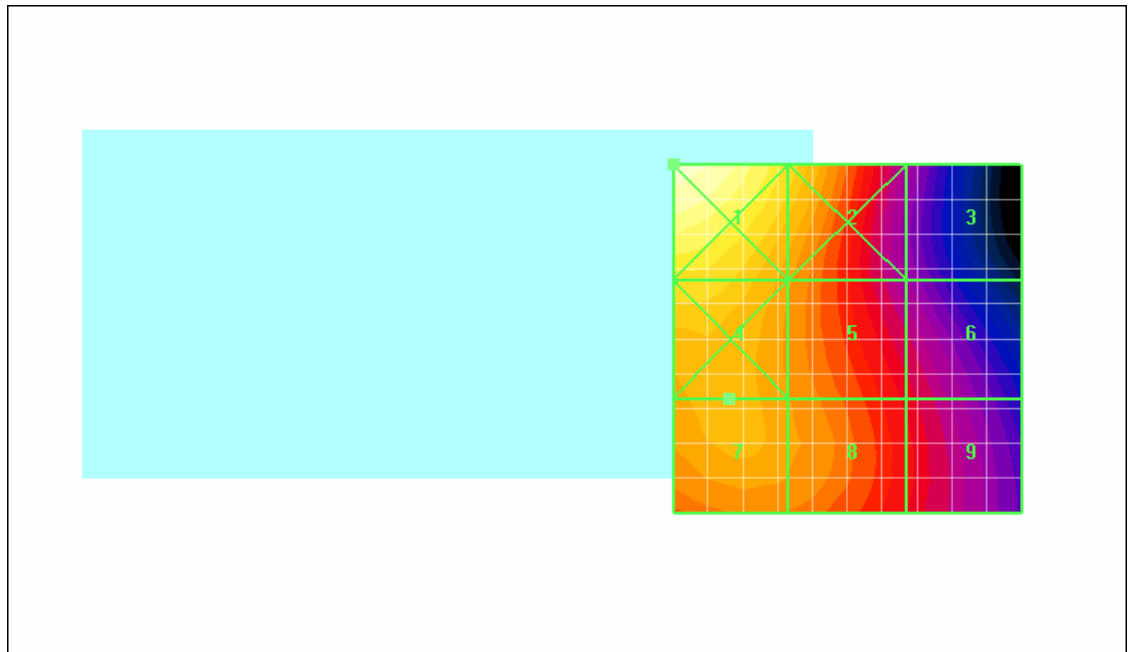
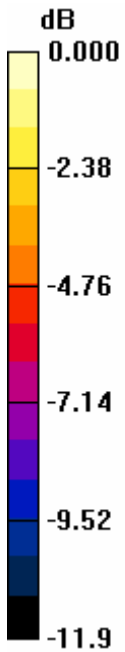
Reference Value = 0.128 A/m; Power Drift = -0.202 dB

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

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Peak H-field in A/m

Grid	Grid	Grid
0.207	0.163	0.094
Grid	Grid	Grid
0.164	0.140	0.108
Grid	Grid	Grid



0 dB = 0.207A/m