

### HAC RF E-Field GSM 1900 High

Date: 2014-1-4

Electronics: DAE4 Sn777

Medium: Air

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.6°C

Communication System: DCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Probe: ER3DV6 - SN2272; ConvF(1, 1, 1)

### E Scan - ER3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid

Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 14.31 V/m; Power Drift = -0.00 dB

PMR not calibrated. PMF = 2.884 is applied.

E-field emissions = 39.53 V/m

Near-field category: M4 (AWF -5 dB)

PMF scaled E-field

Grid 1 M4 38.64 V/m	Grid 2 M4 36.52 V/m	Grid 3 M4 36.18 V/m
Grid 4 M4 34.38 V/m	Grid 5 M4 39.53 V/m	Grid 6 M4 37.34 V/m
Grid 7 M4 32.69 V/m	Grid 8 M4 39.78 V/m	Grid 9 M4 40.72 V/m



0 dB = 40.72 V/m = 32.20 dBV/m

Fig B.4 HAC RF E-Field GSM 1900 High

### HAC RF E-Field GSM 1900 Middle

Date: 2014-1-4

Electronics: DAE4 Sn777

Medium: Air

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.6°C

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Probe: ER3DV6 - SN2272; ConvF(1, 1, 1)

### E Scan - ER3DV6 - 2007: 15 mm from Probe Center to the Device 2/Hearing Aid

**Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 15.89 V/m; Power Drift = -0.04 dB

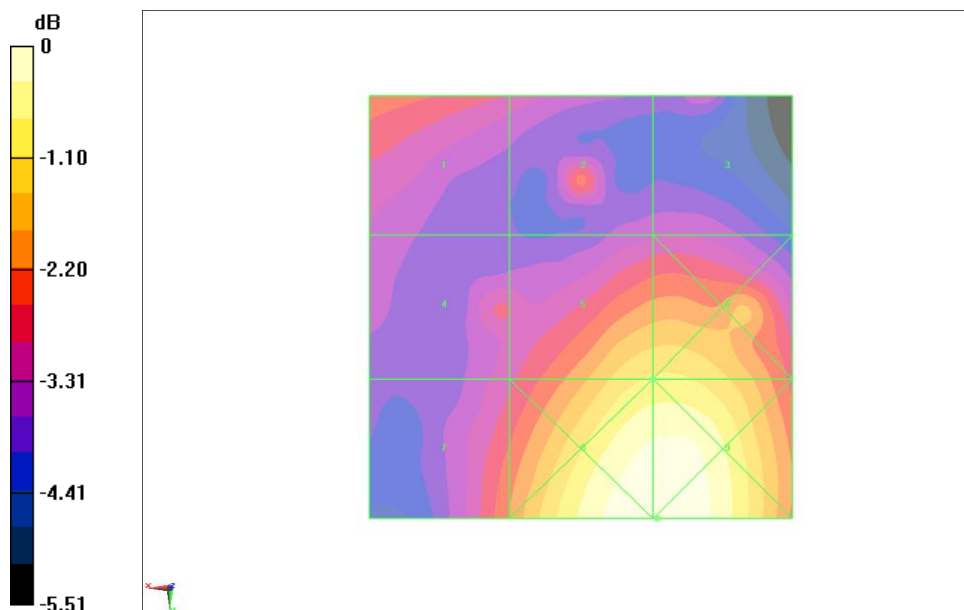
PMR not calibrated. PMF = 2.884 is applied.

E-field emissions = 44.13 V/m

**Near-field category: M4 (AWF -5 dB)**

PMF scaled E-field

Grid 1 M4 37.97 V/m	Grid 2 M4 37.43 V/m	Grid 3 M4 34.10 V/m
Grid 4 M4 35.80 V/m	Grid 5 M4 44.13 V/m	Grid 6 M4 44.25 V/m
Grid 7 M4 38.75 V/m	Grid 8 M3 49.76 V/m	Grid 9 M3 49.79 V/m



0 dB = 49.79 V/m = 33.94 dBV/m

**Fig B.5 HAC RF E-Field GSM 1900 Middle**

**HAC RF E-Field GSM 1900 Low**

Date: 2014-1-4

Electronics: DAE4 Sn777

Medium: Air

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.6°C

Communication System: DCS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Probe: ER3DV6 - SN2272; ConvF(1, 1, 1)

**E Scan - ER3DV6 - 2007: 15 mm from Probe Center to the Device 3/Hearing Aid**

**Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 16.46 V/m; Power Drift = 0.02 dB

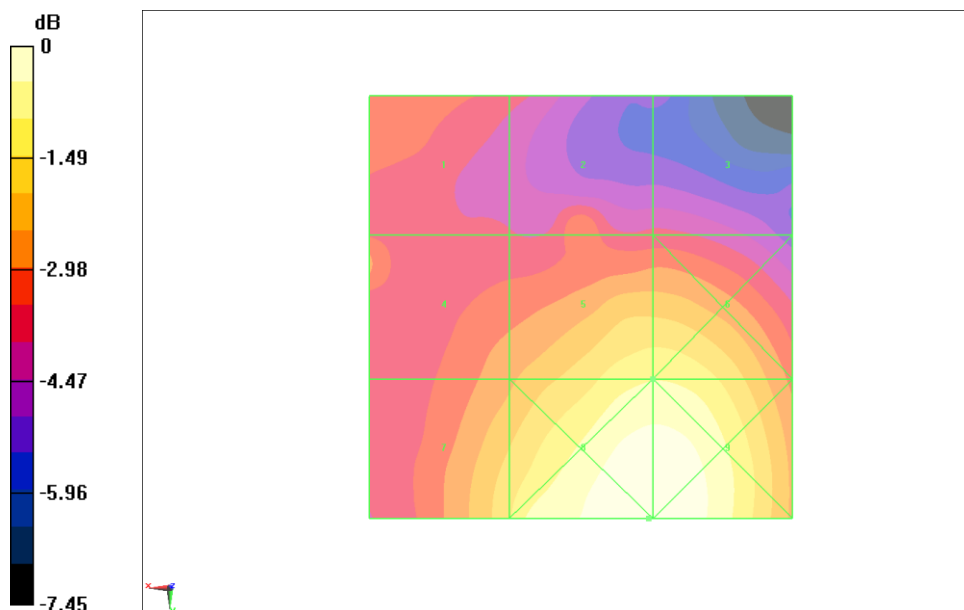
PMR not calibrated. PMF = 2.884 is applied.

E-field emissions = 45.52 V/m

**Near-field category: M4 (AWF -5 dB)**

PMF scaled E-field

Grid 1 M4 36.32 V/m	Grid 2 M4 35.78 V/m	Grid 3 M4 33.07 V/m
Grid 4 M4 38.01 V/m	Grid 5 M4 45.52 V/m	Grid 6 M4 45.55 V/m
Grid 7 M4 42.91 V/m	Grid 8 M3 51.18 V/m	Grid 9 M3 51.16 V/m



0 dB = 51.18 V/m = 34.18 dBV/m

**Fig B.6 HAC RF E-Field GSM 1900 Low**

### HAC RF E-Field WCDMA 850 High

Date: 2014-1-4

Electronics: DAE4 Sn777

Medium: Air

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.6°C

Communication System: WCDMA 850; Frequency: 846.6 MHz; Duty Cycle: 1:1

Probe: ER3DV6 - SN2272; ConvF(1, 1, 1)

#### E Scan - ER3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid

Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 37.66 V/m; Power Drift = 0.02 dB

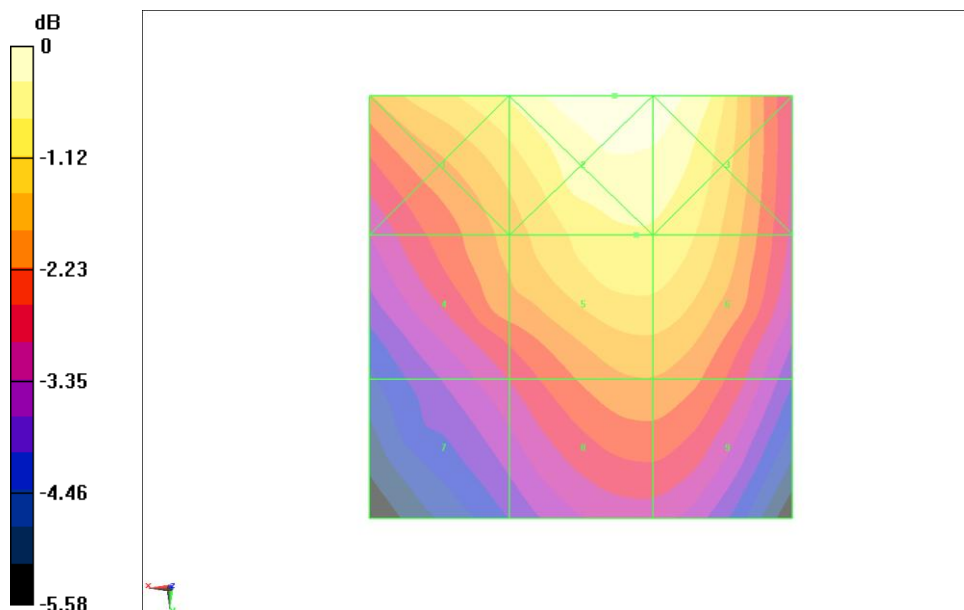
PMR not calibrated. PMF = 1.003 is applied.

E-field emissions = 33.12 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 33.44 V/m	Grid 2 M4 36.17 V/m	Grid 3 M4 35.62 V/m
Grid 4 M4 29.75 V/m	Grid 5 M4 33.12 V/m	Grid 6 M4 33.01 V/m
Grid 7 M4 25.76 V/m	Grid 8 M4 29.19 V/m	Grid 9 M4 29.17 V/m



0 dB = 36.17 V/m = 31.17 dBV/m

Fig B.7 HAC RF E-Field WCDMA 850 High

### HAC RF E-Field WCDMA 850 Middle

Date: 2014-1-4

Electronics: DAE4 Sn777

Medium: Air

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.6°C

Communication System: WCDMA 850; Frequency: 836.4 MHz; Duty Cycle: 1:1

Probe: ER3DV6 - SN2272; ConvF(1, 1, 1)

#### E Scan - ER3DV6 - 2007: 15 mm from Probe Center to the Device 2/Hearing Aid

Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 43.27 V/m; Power Drift = -0.00 dB

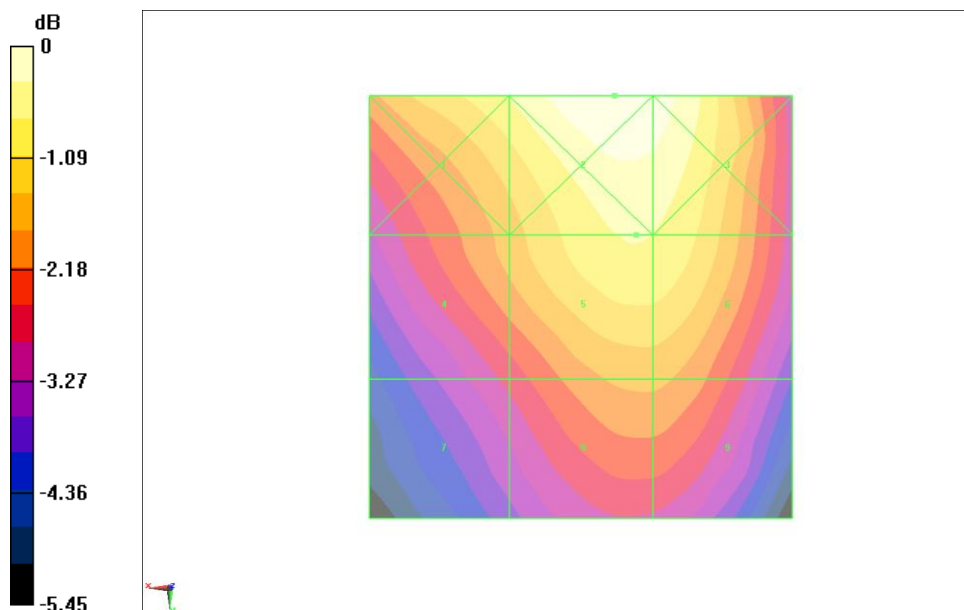
PMR not calibrated. PMF = 1.003 is applied.

E-field emissions = 37.63 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 37.72 V/m	Grid 2 M4 40.81 V/m	Grid 3 M4 40.18 V/m
Grid 4 M4 33.82 V/m	Grid 5 M4 37.63 V/m	Grid 6 M4 37.51 V/m
Grid 7 M4 29.65 V/m	Grid 8 M4 33.54 V/m	Grid 9 M4 33.50 V/m



0 dB = 40.81 V/m = 32.22 dBV/m

Fig B.8 HAC RF E-Field WCDMA 850 Middle

**HAC RF E-Field WCDMA 850 Low**

Date: 2014-1-4

Electronics: DAE4 Sn777

Medium: Air

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.6°C

Communication System: WCDMA 850; Frequency: 826.4 MHz; Duty Cycle: 1:1

Probe: ER3DV6 - SN2272; ConvF(1, 1, 1)

**E Scan - ER3DV6 - 2007: 15 mm from Probe Center to the Device 3/Hearing Aid**

**Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 43.57 V/m; Power Drift = 0.00 dB

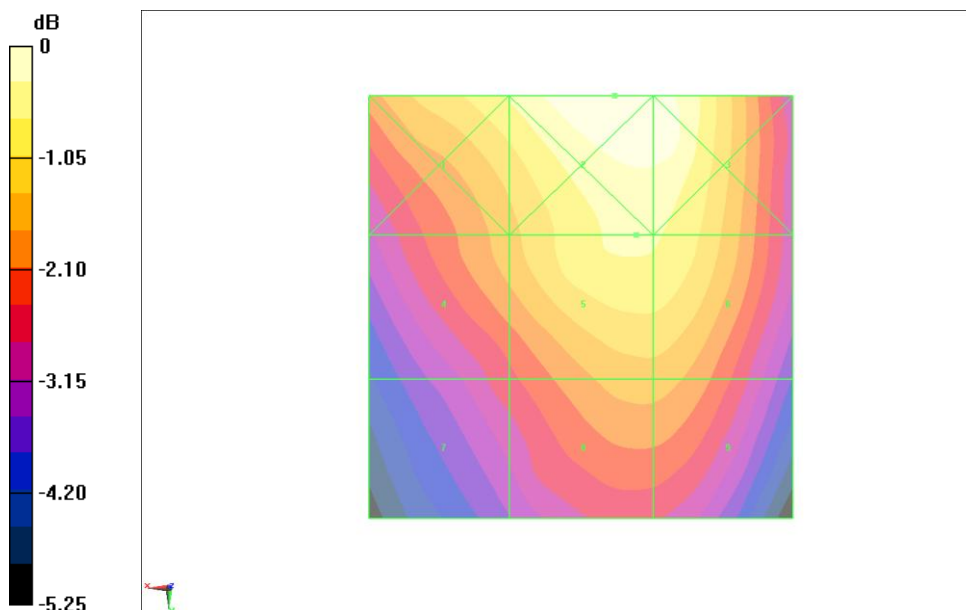
PMR not calibrated. PMF = 1.003 is applied.

E-field emissions = 37.76 V/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled E-field

<b>Grid 1 M4</b> <b>37.70 V/m</b>	<b>Grid 2 M4</b> <b>40.61 V/m</b>	<b>Grid 3 M4</b> <b>40.20 V/m</b>
<b>Grid 4 M4</b> <b>34.06 V/m</b>	<b>Grid 5 M4</b> <b>37.76 V/m</b>	<b>Grid 6 M4</b> <b>37.65 V/m</b>
<b>Grid 7 M4</b> <b>30.32 V/m</b>	<b>Grid 8 M4</b> <b>33.96 V/m</b>	<b>Grid 9 M4</b> <b>33.93 V/m</b>



0 dB = 40.61 V/m = 32.17 dBV/m

**Fig B.9 HAC RF E-Field WCDMA 850 Low**

### HAC RF E-Field WCDMA 1900 High

Date: 2014-1-4

Electronics: DAE4 Sn777

Medium: Air

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.6°C

Communication System: WCDMA 1900; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Probe: ER3DV6 - SN2272; ConvF(1, 1, 1)

### E Scan - ER3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid

Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 17.18 V/m; Power Drift = -0.03 dB

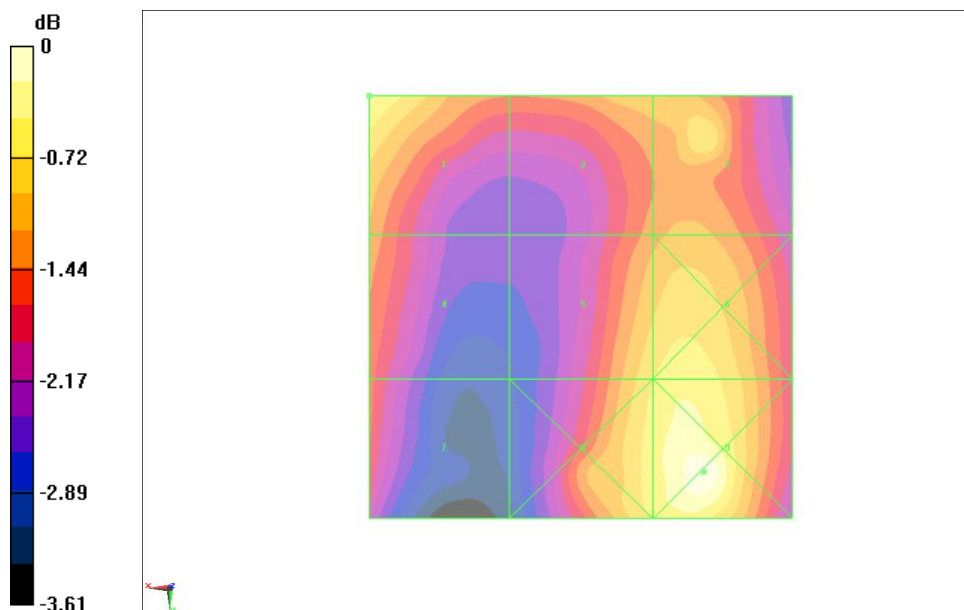
PMR not calibrated. PMF = 1.005 is applied.

E-field emissions = 16.27 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 16.27 V/m	Grid 2 M4 15.15 V/m	Grid 3 M4 15.73 V/m
Grid 4 M4 14.77 V/m	Grid 5 M4 15.69 V/m	Grid 6 M4 16.03 V/m
Grid 7 M4 14.25 V/m	Grid 8 M4 15.98 V/m	Grid 9 M4 17.07 V/m



0 dB = 17.07 V/m = 24.64 dBV/m

Fig B.10 HAC RF E-Field WCDMA 1900 High

### HAC RF E-Field WCDMA 1900 Middle

Date: 2014-1-4

Electronics: DAE4 Sn777

Medium: Air

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.6°C

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

Probe: ER3DV6 - SN2272; ConvF(1, 1, 1)

### E Scan - ER3DV6 - 2007: 15 mm from Probe Center to the Device 2/Hearing Aid

**Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 19.71 V/m; Power Drift = 0.18 dB

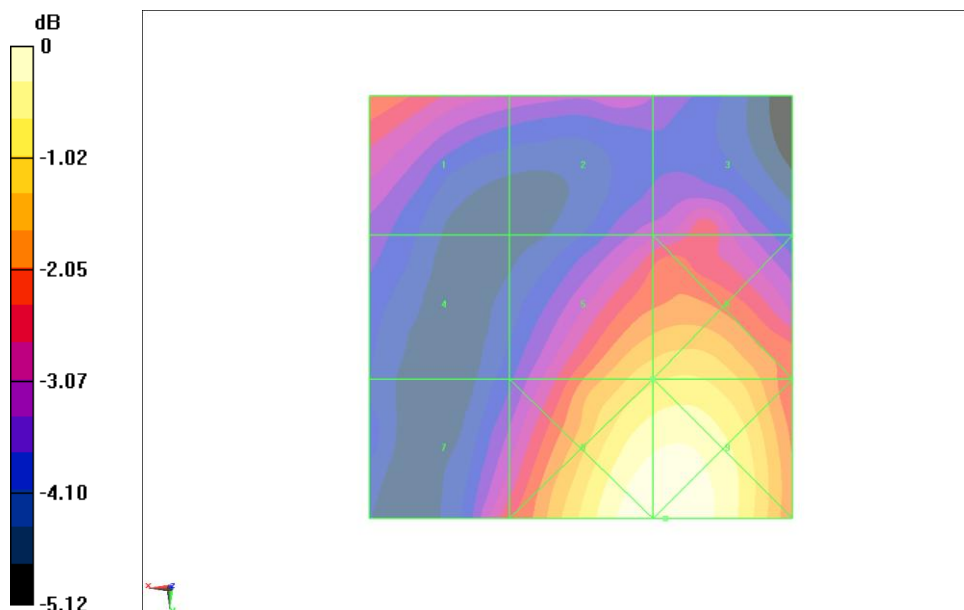
PMR not calibrated. PMF = 1.005 is applied.

E-field emissions = 19.54 V/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled E-field

Grid 1 M4 17.59 V/m	Grid 2 M4 15.60 V/m	Grid 3 M4 16.56 V/m
Grid 4 M4 14.75 V/m	Grid 5 M4 19.54 V/m	Grid 6 M4 19.81 V/m
Grid 7 M4 16.74 V/m	Grid 8 M4 22.09 V/m	Grid 9 M4 22.16 V/m



0 dB = 22.16 V/m = 26.91 dBV/m

**Fig B.11 HAC RF E-Field WCDMA 1900 Middle**



**HAC RF E-Field WCDMA 1900 Low**

Date: 2014-1-4

Electronics: DAE4 Sn777

Medium: Air

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.6°C

Communication System: WCDMA 1900; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Probe: ER3DV6 - SN2272; ConvF(1, 1, 1)

**E Scan - ER3DV6 - 2007: 15 mm from Probe Center to the Device 3/Hearing Aid**

**Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 20.44 V/m; Power Drift = 0.05 dB

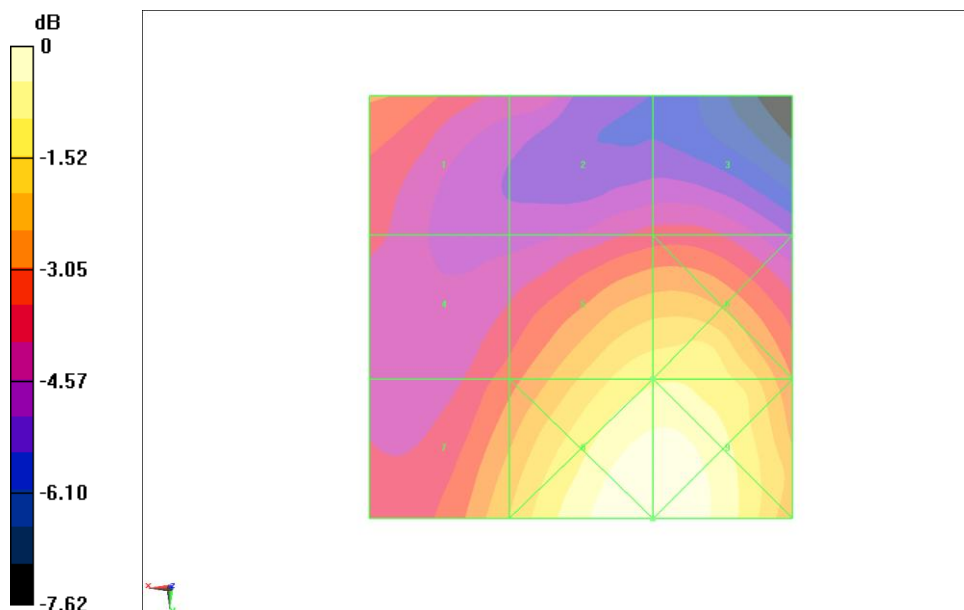
PMR not calibrated. PMF = 1.005 is applied.

E-field emissions = 20.40 V/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled E-field

Grid 1 M4 16.48 V/m	Grid 2 M4 14.90 V/m	Grid 3 M4 14.98 V/m
Grid 4 M4 15.91 V/m	Grid 5 M4 20.40 V/m	Grid 6 M4 20.52 V/m
Grid 7 M4 18.36 V/m	Grid 8 M4 23.15 V/m	Grid 9 M4 23.15 V/m



0 dB = 23.15 V/m = 27.29 dBV/m

**Fig B.12 HAC RF E-Field WCDMA 1900 Low**

### HAC RF H-Field GSM 850 High

Date: 2014-1-4

Electronics: DAE4 Sn777

Medium: Air

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>

Ambient Temperature: 22.6°C

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

Probe: H3DV6 - SN6103;

### H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid

Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.02200 A/m; Power Drift = -0.02 dB

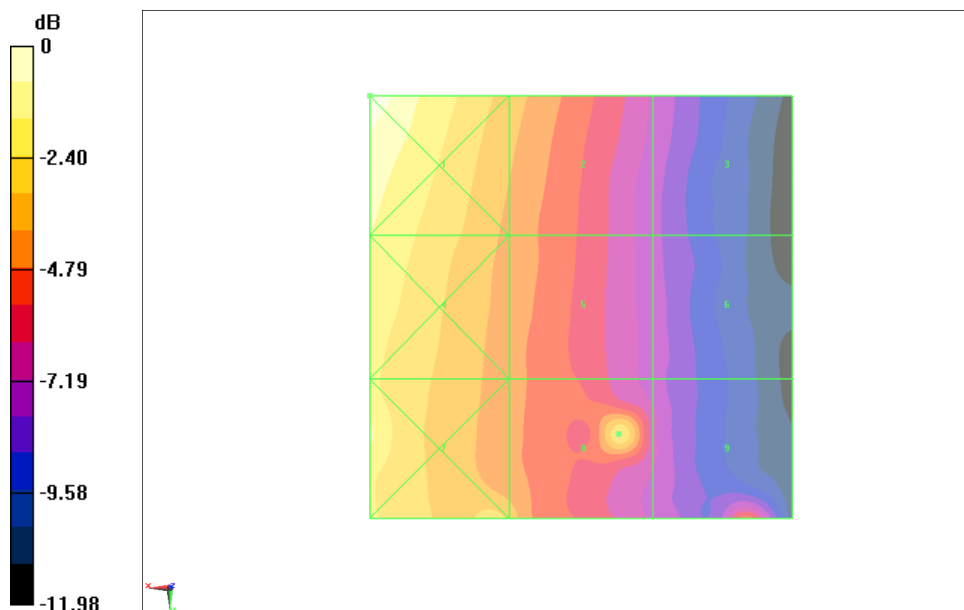
PMR not calibrated. PMF = 2.875 is applied.

H-field emissions = 0.08813 A/m

Near-field category: M4 (AWF -5 dB)

PMF scaled H-field

Grid 1 M4 0.118 A/m	Grid 2 M4 0.079 A/m	Grid 3 M4 0.051 A/m
Grid 4 M4 0.099 A/m	Grid 5 M4 0.073 A/m	Grid 6 M4 0.050 A/m
Grid 7 M4 0.100 A/m	Grid 8 M4 0.088 A/m	Grid 9 M4 0.067 A/m



0 dB = 0.1184 A/m = -18.53 dBA/m

Fig B.13 HAC RF H-Field GSM 850 High

### HAC RF H-Field GSM 850 Middle

Date: 2014-1-4

Electronics: DAE4 Sn777

Medium: Air

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>

Ambient Temperature: 22.6°C

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

Probe: H3DV6 - SN6103;

### H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.03400 A/m; Power Drift = -0.11 dB

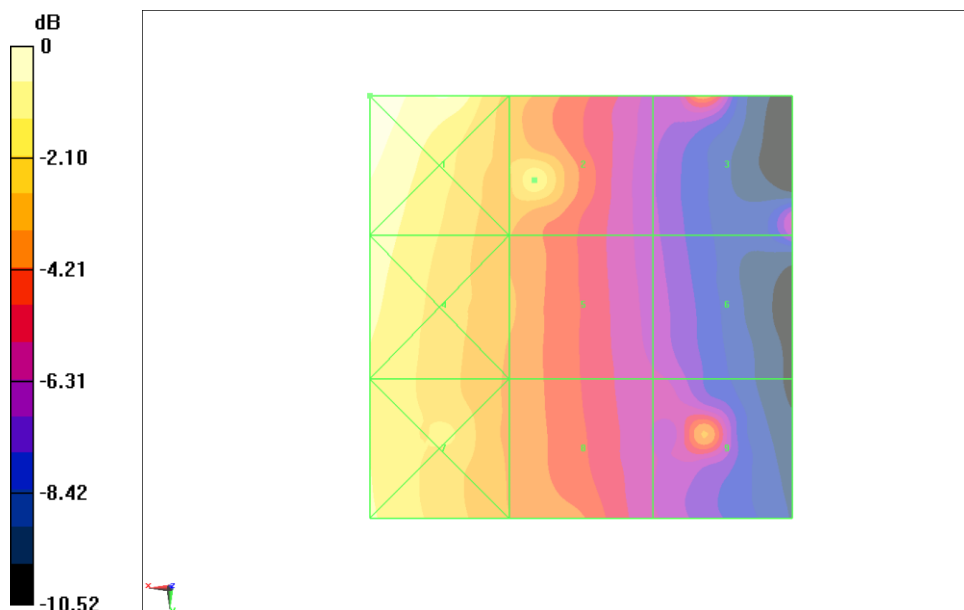
PMR not calibrated. PMF = 2.875 is applied.

H-field emissions = 0.09286 A/m

Near-field category: M4 (AWF -5 dB)

PMF scaled H-field

<b>Grid 1 M4</b> <b>0.112 A/m</b>	<b>Grid 2 M4</b> <b>0.093 A/m</b>	<b>Grid 3 M4</b> <b>0.074 A/m</b>
<b>Grid 4 M4</b> <b>0.100 A/m</b>	<b>Grid 5 M4</b> <b>0.077 A/m</b>	<b>Grid 6 M4</b> <b>0.056 A/m</b>
<b>Grid 7 M4</b> <b>0.097 A/m</b>	<b>Grid 8 M4</b> <b>0.075 A/m</b>	<b>Grid 9 M4</b> <b>0.076 A/m</b>



0 dB = 0.1120 A/m = -19.02 dBA/m

**Fig B.14 HAC RF H-Field GSM 850 Middle**

### HAC RF H-Field GSM 850 Low

Date: 2014-1-4

Electronics: DAE4 Sn777

Medium: Air

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>

Ambient Temperature: 22.6°C

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Probe: H3DV6 - SN6103;

### H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 3/Hearing Aid

Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.02000 A/m; Power Drift = 0.19 dB

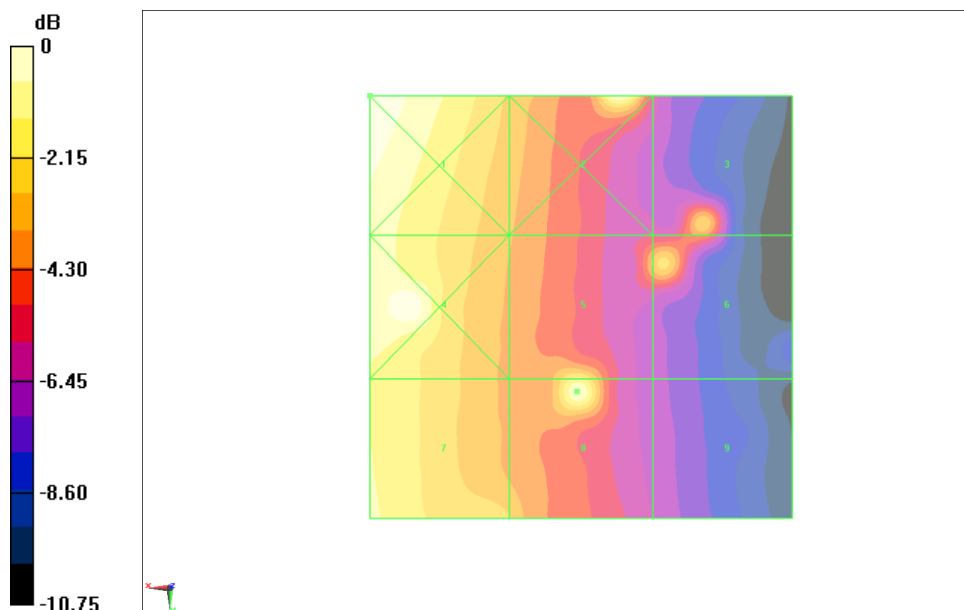
PMR not calibrated. PMF = 2.875 is applied.

H-field emissions = 0.09373 A/m

Near-field category: M4 (AWF -5 dB)

PMF scaled H-field

Grid 1 M4 0.103 A/m	Grid 2 M4 0.097 A/m	Grid 3 M4 0.073 A/m
Grid 4 M4 0.100 A/m	Grid 5 M4 0.083 A/m	Grid 6 M4 0.076 A/m
Grid 7 M4 0.089 A/m	Grid 8 M4 0.094 A/m	Grid 9 M4 0.049 A/m



0 dB = 0.1028 A/m = -19.76 dBA/m

Fig B.15 HAC RF H-Field GSM 850 Low

### HAC RF H-Field GSM 1900 High

Date: 2014-1-4

Electronics: DAE4 Sn777

Medium: Air

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>

Ambient Temperature: 22.6°C

Communication System: DCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Probe: H3DV6 - SN6103;

### H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.03400 A/m; Power Drift = -0.03 dB

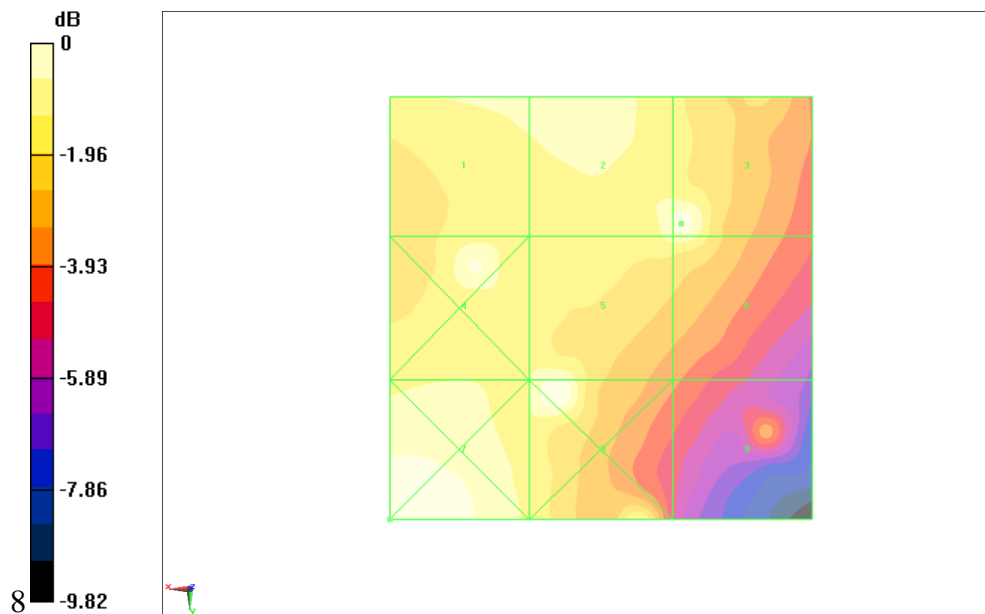
PMR not calibrated. PMF = 2.868 is applied.

H-field emissions = 0.1102 A/m

Near-field category: M4 (AWF -5 dB)

PMF scaled H-field

Grid 1 M4 <b>0.100 A/m</b>	Grid 2 M4 <b>0.108 A/m</b>	Grid 3 M4 <b>0.110 A/m</b>
Grid 4 M4 <b>0.108 A/m</b>	Grid 5 M4 <b>0.109 A/m</b>	Grid 6 M4 <b>0.104 A/m</b>
Grid 7 M4 <b>0.115 A/m</b>	Grid 8 M4 <b>0.115 A/m</b>	Grid 9 M4 <b>0.076 A/m</b>



0 dB = 0.1150 A/m = -18.79 dBA/m

**Fig B.16 HAC RF H-Field GSM 1900 High**

### HAC RF H-Field GSM 1900 Middle

Date: 2014-1-4

Electronics: DAE4 Sn777

Medium: Air

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>

Ambient Temperature: 22.6°C

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Probe: H3DV6 - SN6103;

### H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.03800 A/m; Power Drift = -0.07 dB

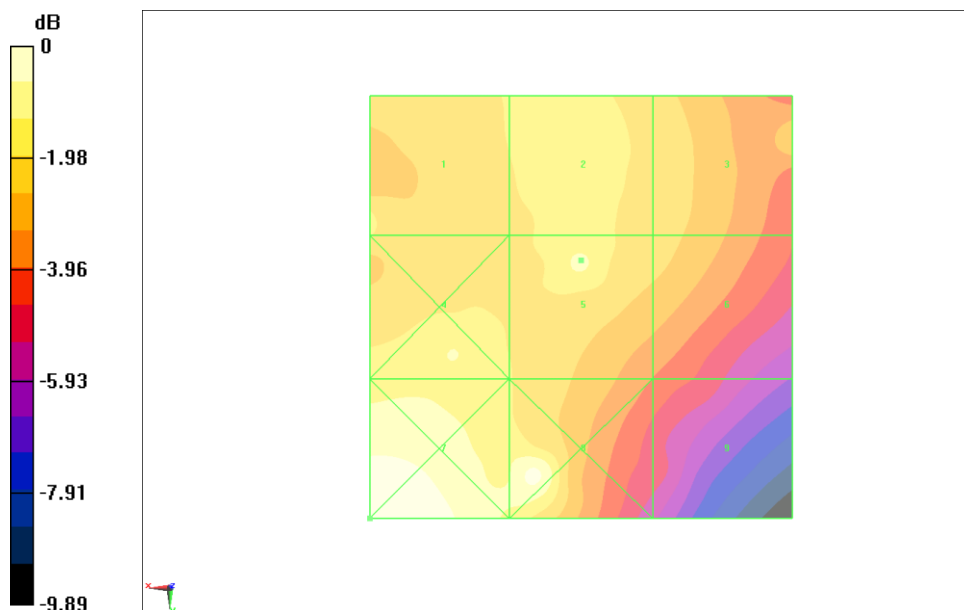
PMR not calibrated. PMF = 2.868 is applied.

H-field emissions = 0.1125 A/m

Near-field category: M4 (AWF -5 dB)

PMF scaled H-field

Grid 1 M4 0.106 A/m	Grid 2 M4 0.106 A/m	Grid 3 M4 0.101 A/m
Grid 4 M4 0.112 A/m	Grid 5 M4 0.113 A/m	Grid 6 M4 0.099 A/m
Grid 7 M4 0.129 A/m	Grid 8 M4 0.122 A/m	Grid 9 M4 0.082 A/m



0 dB = 0.1295 A/m = -17.75 dBA/m

Fig B.17 HAC RF H-Field GSM 1900 Middle

**HAC RF H-Field GSM 1900 Low**

Date: 2014-1-4

Electronics: DAE4 Sn777

Medium: Air

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>

Ambient Temperature: 22.6°C

Communication System: DCS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Probe: H3DV6 - SN6103;

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 3/Hearing Aid**

**Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.03600 A/m; Power Drift = 0.04 dB

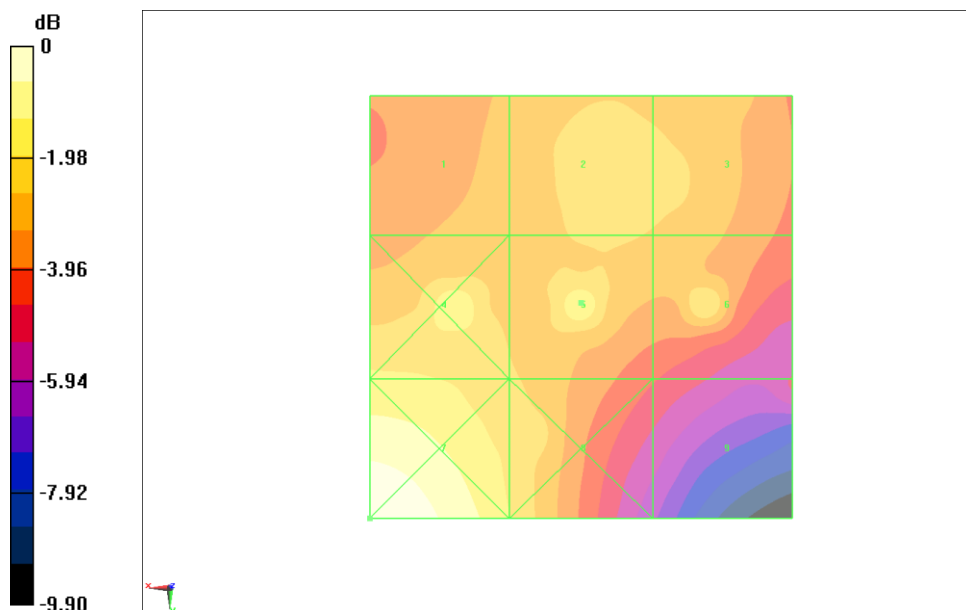
PMR not calibrated. PMF = 2.868 is applied.

H-field emissions = 0.1108 A/m

**Near-field category: M4 (AWF -5 dB)**

PMF scaled H-field

Grid 1 M4 0.095 A/m	Grid 2 M4 0.103 A/m	Grid 3 M4 0.103 A/m
Grid 4 M4 0.114 A/m	Grid 5 M4 0.111 A/m	Grid 6 M4 0.105 A/m
Grid 7 M4 0.132 A/m	Grid 8 M4 0.106 A/m	Grid 9 M4 0.079 A/m



0 dB = 0.1324 A/m = -17.56 dBA/m

**Fig B.18 HAC RF H-Field GSM 1900 Low**

### HAC RF H-Field WCDMA 850 High

Date: 2014-1-4

Electronics: DAE4 Sn777

Medium: Air

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>

Ambient Temperature: 22.6°C

Communication System: WCDMA 850; Frequency: 846.6 MHz; Duty Cycle: 1:1

Probe: H3DV6 - SN6103;

### H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid

Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.03600 A/m; Power Drift = -0.06 dB

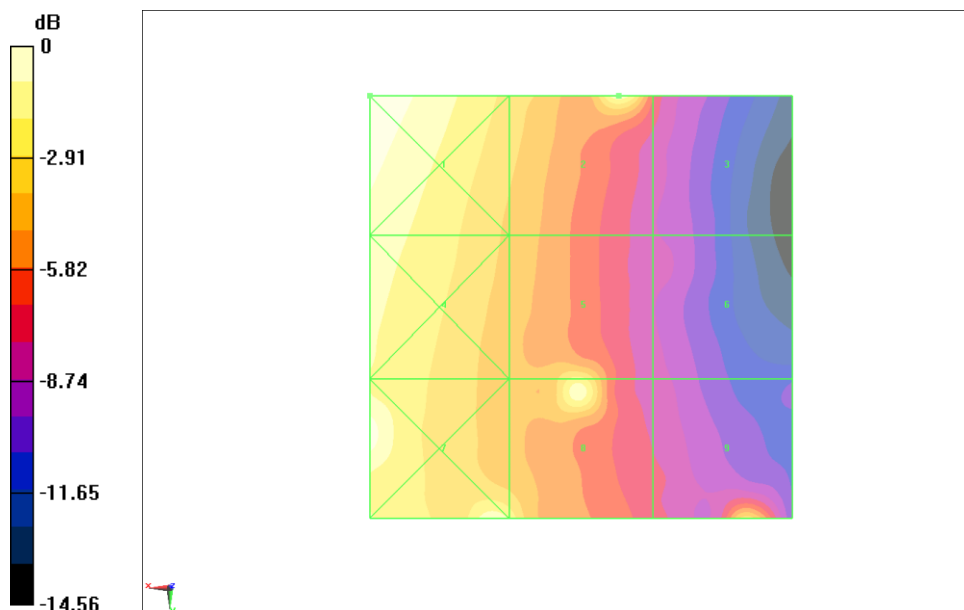
PMR not calibrated. PMF = 1.006 is applied.

H-field emissions = 0.06184 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.071 A/m	Grid 2 M4 0.062 A/m	Grid 3 M4 0.033 A/m
Grid 4 M4 0.061 A/m	Grid 5 M4 0.053 A/m	Grid 6 M4 0.028 A/m
Grid 7 M4 0.068 A/m	Grid 8 M4 0.061 A/m	Grid 9 M4 0.048 A/m



0 dB = 0.07089 A/m = -22.99 dBA/m

Fig B.19 HAC RF H-Field WCDMA 850 High



### HAC RF H-Field WCDMA 850 Middle

Date: 2014-1-4

Electronics: DAE4 Sn777

Medium: Air

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>

Ambient Temperature: 22.6°C

Communication System: WCDMA 850; Frequency: 836.4 MHz; Duty Cycle: 1:1

Probe: H3DV6 - SN6103;

### H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.04400 A/m; Power Drift = 0.18 dB

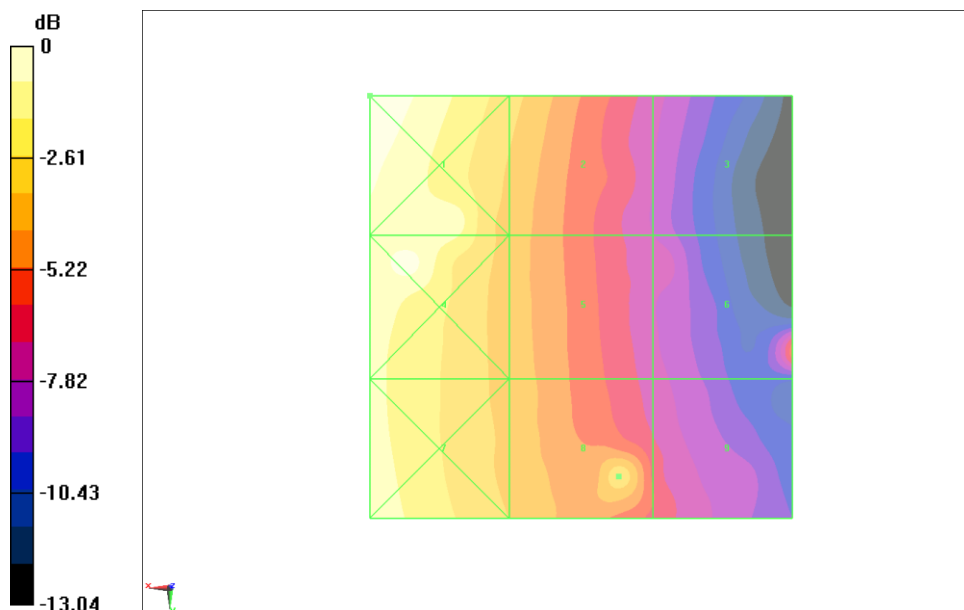
PMR not calibrated. PMF = 1.006 is applied.

H-field emissions = 0.05757 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

<b>Grid 1 M4</b> <b>0.081 A/m</b>	<b>Grid 2 M4</b> <b>0.057 A/m</b>	<b>Grid 3 M4</b> <b>0.035 A/m</b>
<b>Grid 4 M4</b> <b>0.075 A/m</b>	<b>Grid 5 M4</b> <b>0.052 A/m</b>	<b>Grid 6 M4</b> <b>0.043 A/m</b>
<b>Grid 7 M4</b> <b>0.071 A/m</b>	<b>Grid 8 M4</b> <b>0.058 A/m</b>	<b>Grid 9 M4</b> <b>0.041 A/m</b>



0 dB = 0.08099 A/m = -21.83 dBA/m

Fig B.20 HAC RF H-Field WCDMA 850 Middle

### HAC RF H-Field WCDMA 850 Low

Date: 2014-1-4

Electronics: DAE4 Sn777

Medium: Air

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>

Ambient Temperature: 22.6°C

Communication System: WCDMA 850; Frequency: 826.4 MHz; Duty Cycle: 1:1

Probe: H3DV6 - SN6103;

### H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 3/Hearing Aid

**Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.04200 A/m; Power Drift = 0.02 dB

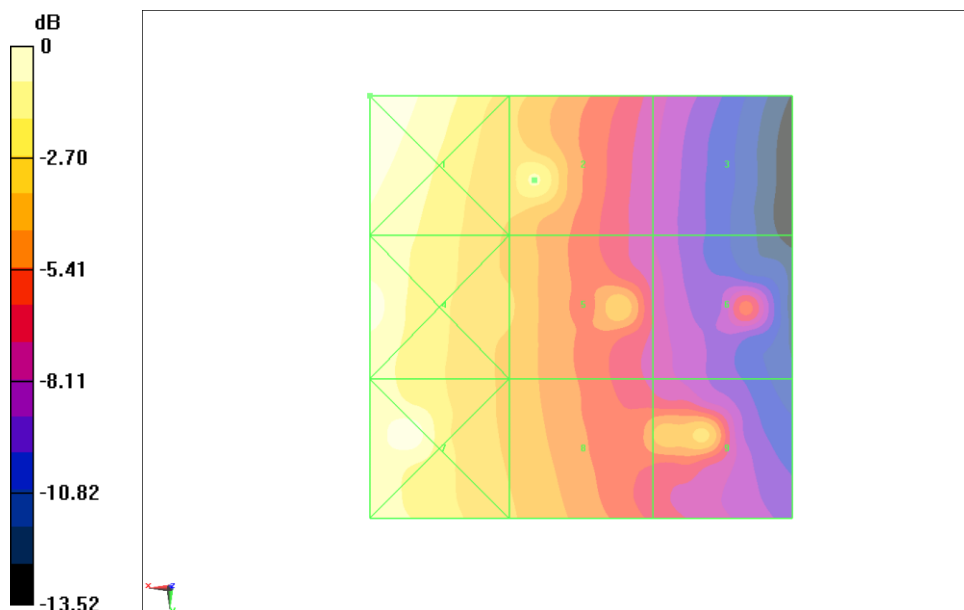
PMR not calibrated. PMF = 1.006 is applied.

H-field emissions = 0.06413 A/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled H-field

<b>Grid 1 M4</b> <b>0.077 A/m</b>	<b>Grid 2 M4</b> <b>0.064 A/m</b>	<b>Grid 3 M4</b> <b>0.032 A/m</b>
<b>Grid 4 M4</b> <b>0.076 A/m</b>	<b>Grid 5 M4</b> <b>0.053 A/m</b>	<b>Grid 6 M4</b> <b>0.040 A/m</b>
<b>Grid 7 M4</b> <b>0.074 A/m</b>	<b>Grid 8 M4</b> <b>0.052 A/m</b>	<b>Grid 9 M4</b> <b>0.053 A/m</b>



0 dB = 0.07739 A/m = -22.23 dBA/m

**Fig B.21 HAC RF H-Field WCDMA 850 Low**

**HAC RF H-Field WCDMA 1900 High**

Date: 2014-1-4

Electronics: DAE4 Sn777

Medium: Air

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>

Ambient Temperature: 22.6°C

Communication System: WCDMA 1900; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Probe: H3DV6 - SN6103;

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid**

**Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.04600 A/m; Power Drift = 0.00 dB

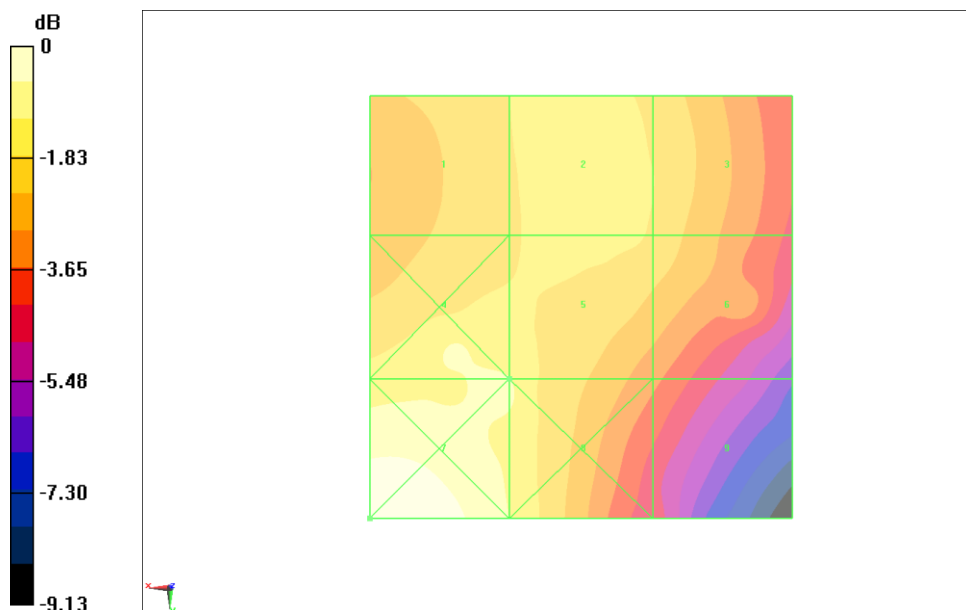
PMR not calibrated. PMF = 1.005 is applied.

H-field emissions = 0.04702 A/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled H-field

<b>Grid 1 M4</b> <b>0.044 A/m</b>	<b>Grid 2 M4</b> <b>0.046 A/m</b>	<b>Grid 3 M4</b> <b>0.044 A/m</b>
<b>Grid 4 M4</b> <b>0.048 A/m</b>	<b>Grid 5 M4</b> <b>0.047 A/m</b>	<b>Grid 6 M4</b> <b>0.043 A/m</b>
<b>Grid 7 M4</b> <b>0.054 A/m</b>	<b>Grid 8 M4</b> <b>0.048 A/m</b>	<b>Grid 9 M4</b> <b>0.036 A/m</b>



0 dB = 0.05387 A/m = -25.37 dBA/m

**Fig B.22 HAC RF H-Field WCDMA 1900 High**

### HAC RF H-Field WCDMA 1900 Middle

Date: 2014-1-4

Electronics: DAE4 Sn777

Medium: Air

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>

Ambient Temperature: 22.6°C

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

Probe: H3DV6 - SN6103;

### H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2/Hearing Aid

Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.04300 A/m; Power Drift = 0.03 dB

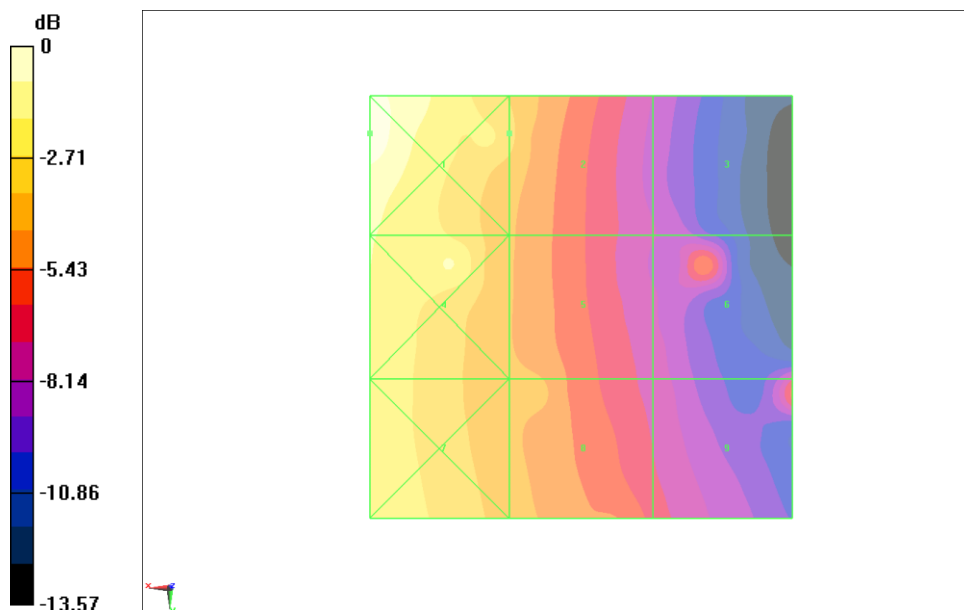
PMR not calibrated. PMF = 1.005 is applied.

H-field emissions = 0.05842 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.085 A/m	Grid 2 M4 0.058 A/m	Grid 3 M4 0.034 A/m
Grid 4 M4 0.070 A/m	Grid 5 M4 0.052 A/m	Grid 6 M4 0.045 A/m
Grid 7 M4 0.069 A/m	Grid 8 M4 0.054 A/m	Grid 9 M4 0.043 A/m



0 dB = 0.08506 A/m = -21.41 dBA/m

Fig B.23 HAC RF H-Field WCDMA 1900 Middle

### HAC RF H-Field WCDMA 1900 Low

Date: 2014-1-4

Electronics: DAE4 Sn777

Medium: Air

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>

Ambient Temperature: 22.6°C

Communication System: WCDMA 1900; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Probe: H3DV6 - SN6103;

### H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 3/Hearing Aid

**Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.06000 A/m; Power Drift = -0.19 dB

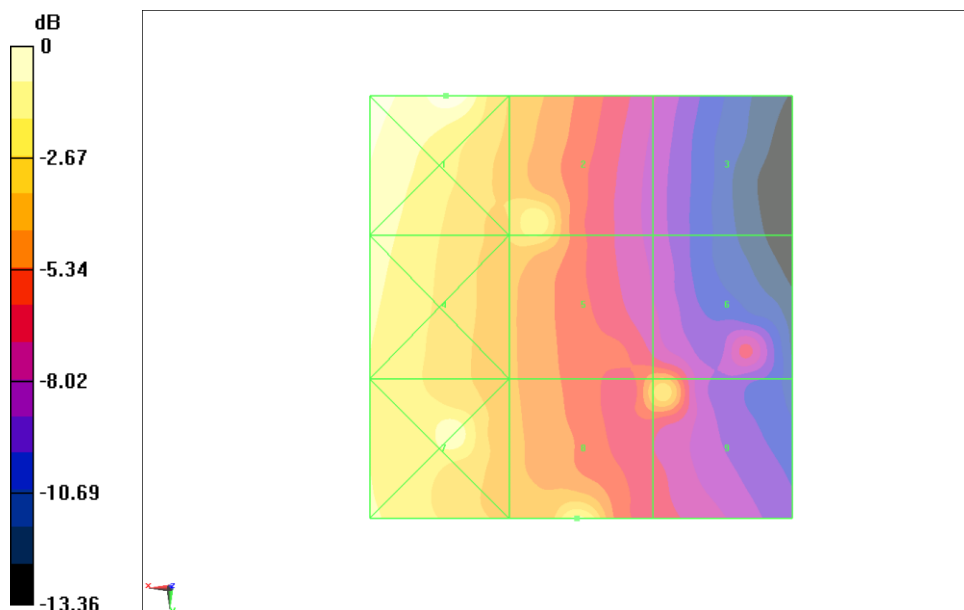
PMR not calibrated. PMF = 1.005 is applied.

H-field emissions = 0.06610 A/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled H-field

<b>Grid 1 M4</b> <b>0.078 A/m</b>	<b>Grid 2 M4</b> <b>0.063 A/m</b>	<b>Grid 3 M4</b> <b>0.032 A/m</b>
<b>Grid 4 M4</b> <b>0.067 A/m</b>	<b>Grid 5 M4</b> <b>0.059 A/m</b>	<b>Grid 6 M4</b> <b>0.048 A/m</b>
<b>Grid 7 M4</b> <b>0.069 A/m</b>	<b>Grid 8 M4</b> <b>0.066 A/m</b>	<b>Grid 9 M4</b> <b>0.056 A/m</b>



0 dB = 0.07829 A/m = -22.13 dBA/m

**Fig B.24 HAC RF H-Field WCDMA 1900 Low**

**Total M-rating of GSM 850 MHz Band**

Date: 2014-1-4

Electronics: DAE4 Sn777

Medium: Air

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup> Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>

Ambient Temperature:22.6°C

Communication System: GSM 850; Frequency: 836.6 MHz; Frequency: 848.8 MHz;Duty Cycle: 1:8.3

Probe: ER3DV6 - SN2272Probe: H3DV6 - SN6103;ConvF(1, 1, 1)

**E Scan - ER3DV6 - 2007: 15 mm from Probe Center to the Device 2/Hearing Aid Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 44.92 V/m; Power Drift = -0.09 dB

PMR not calibrated. PMF = 2.875 is applied.

E-field emissions = 111.3 V/m

**Near-field category: M4 (AWF -5 dB)**

PMF scaled E-field

<b>Grid 1 M4</b> <b>111.2 V/m</b>	<b>Grid 2 M4</b> <b>120.8 V/m</b>	<b>Grid 3 M4</b> <b>118.2 V/m</b>
<b>Grid 4 M4</b> <b>100.0 V/m</b>	<b>Grid 5 M4</b> <b>111.3 V/m</b>	<b>Grid 6 M4</b> <b>110.4 V/m</b>
<b>Grid 7 M4</b> <b>87.39 V/m</b>	<b>Grid 8 M4</b> <b>98.44 V/m</b>	<b>Grid 9 M4</b> <b>98.14 V/m</b>

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 3/Hearing Aid Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.02000 A/m; Power Drift = 0.39 dB

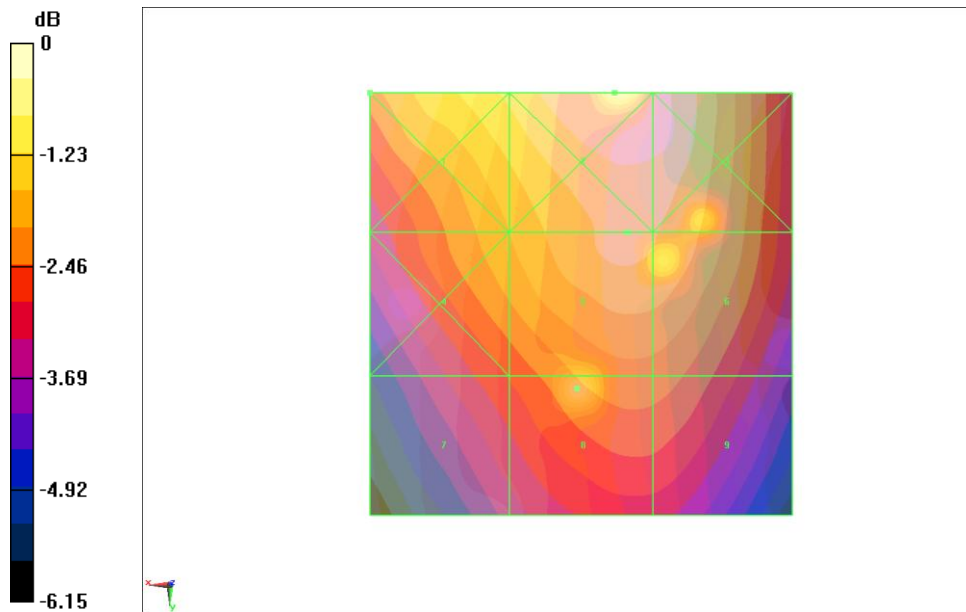
PMR not calibrated. PMF = 2.875 is applied.

H-field emissions = 0.09373 A/m

**Near-field category: M4 (AWF -5 dB)**

PMF scaled H-field

<b>Grid 1 M4</b> <b>0.103 A/m</b>	<b>Grid 2 M4</b> <b>0.097 A/m</b>	<b>Grid 3 M4</b> <b>0.073 A/m</b>
<b>Grid 4 M4</b> <b>0.100 A/m</b>	<b>Grid 5 M4</b> <b>0.083 A/m</b>	<b>Grid 6 M4</b> <b>0.076 A/m</b>
<b>Grid 7 M4</b> <b>0.089 A/m</b>	<b>Grid 8 M4</b> <b>0.094 A/m</b>	<b>Grid 9 M4</b> <b>0.049 A/m</b>



0 dB = 120.8 V/m = 41.64 dBV/m

RF RESULTS AND M-RATING	E-Field M Rating	<b>M4 (AWF -5 dB)</b>
	H-Field M Rating	<b>M4 (AWF -5 dB)</b>
	<b>Total M Rating</b>	<b>M4</b>

**Fig B.25 Total M-rating of GSM 850**

**Total M-rating of GSM 1900 MHz Band**

Date: 2014-1-4

Electronics: DAE4 Sn777

Medium: Air

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup> Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>

Ambient Temperature:22.6°C

Communication System: PCS 1900; Frequency: 1880 MHz;Frequency: 1909.8 MHz;Duty Cycle: 1:8.3

Probe: ER3DV6 - SN2272Probe: H3DV6 - SN6103;ConvF(1, 1, 1)

**E Scan - ER3DV6 - 2007: 15 mm from Probe Center to the Device 3/Hearing Aid Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 16.46 V/m; Power Drift = 0.02 dB

PMR not calibrated. PMF = 2.884 is applied.

E-field emissions = 45.52 V/m

**Near-field category: M4 (AWF -5 dB)**

PMF scaled E-field

Grid 1 M4 36.32 V/m	Grid 2 M4 35.78 V/m	Grid 3 M4 33.07 V/m
Grid 4 M4 38.01 V/m	Grid 5 M4 45.52 V/m	Grid 6 M4 45.55 V/m
Grid 7 M4 42.91 V/m	Grid 8 M3 51.18 V/m	Grid 9 M3 51.16 V/m

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2/Hearing Aid Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.03800 A/m; Power Drift = -0.07 dB

PMR not calibrated. PMF = 2.868 is applied.

H-field emissions = 0.1125 A/m

**Near-field category: M4 (AWF -5 dB)**

PMF scaled H-field

Grid 1 M4 0.106 A/m	Grid 2 M4 0.106 A/m	Grid 3 M4 0.101 A/m
Grid 4 M4 0.112 A/m	Grid 5 M4 0.113 A/m	Grid 6 M4 0.099 A/m
Grid 7 M4 0.129 A/m	Grid 8 M4 0.122 A/m	Grid 9 M4 0.082 A/m





0 dB = 51.18 V/m = 34.18 dBV/m

RF RESULTS AND M-RATING	E-Field M Rating	<b>M4 (AWF -5 dB)</b>
	H-Field M Rating	<b>M4 (AWF -5 dB)</b>
	<b>Total M Rating</b>	<b>M4</b>

**Fig B.26 Total M-rating of GSM 1900**

**Total M-rating of WCDMA 850 MHz Band**

Date: 2014-1-4

Electronics: DAE4 Sn777

Medium: Air

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup> Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>

Ambient Temperature:22.6°C

Communication System: WCDMA 850; Frequency: 826.4 MHz;Duty Cycle: 1:1

Probe: ER3DV6 - SN2272Probe: H3DV6 - SN6103;ConvF(1, 1, 1)

**E Scan - ER3DV6 - 2007: 15 mm from Probe Center to the Device 3/Hearing Aid Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 43.57 V/m; Power Drift = 0.00 dB

PMR not calibrated. PMF = 1.003 is applied.

E-field emissions = 37.76 V/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled E-field

<b>Grid 1 M4</b> <b>37.70 V/m</b>	<b>Grid 2 M4</b> <b>40.61 V/m</b>	<b>Grid 3 M4</b> <b>40.20 V/m</b>
<b>Grid 4 M4</b> <b>34.06 V/m</b>	<b>Grid 5 M4</b> <b>37.76 V/m</b>	<b>Grid 6 M4</b> <b>37.65 V/m</b>
<b>Grid 7 M4</b> <b>30.32 V/m</b>	<b>Grid 8 M4</b> <b>33.96 V/m</b>	<b>Grid 9 M4</b> <b>33.93 V/m</b>

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 3/Hearing Aid Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.04200 A/m; Power Drift = 0.02 dB

PMR not calibrated. PMF = 1.006 is applied.

H-field emissions = 0.06413 A/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled H-field

<b>Grid 1 M4</b> <b>0.077 A/m</b>	<b>Grid 2 M4</b> <b>0.064 A/m</b>	<b>Grid 3 M4</b> <b>0.032 A/m</b>
<b>Grid 4 M4</b> <b>0.076 A/m</b>	<b>Grid 5 M4</b> <b>0.053 A/m</b>	<b>Grid 6 M4</b> <b>0.040 A/m</b>
<b>Grid 7 M4</b> <b>0.074 A/m</b>	<b>Grid 8 M4</b> <b>0.052 A/m</b>	<b>Grid 9 M4</b> <b>0.053 A/m</b>