Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2011/4/16

HAC_E_Dipole_835_110416

DUT: Dipole 835 MHz

Communication System: GSM850; Frequency: 835 MHz;Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3
Ambient Temperature：22.4 ℃

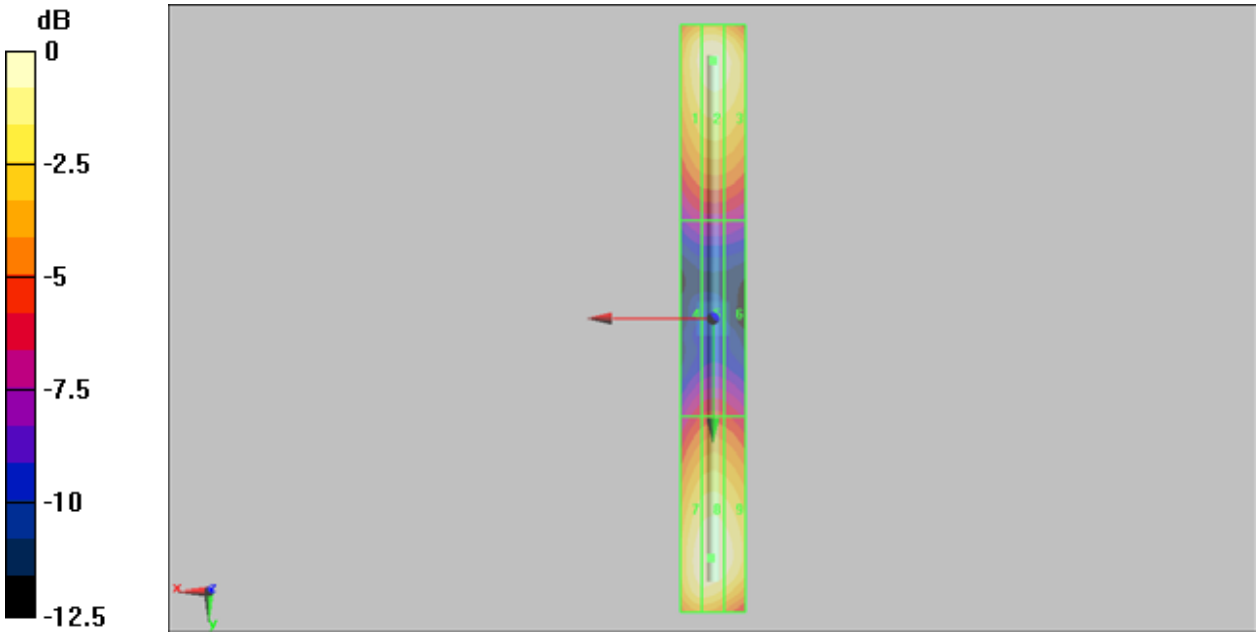
DASY5 Configuration:
- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2011/1/14
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn778; Calibrated: 2010/10/22
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

E Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm
Probe Modulation Factor = 1
Reference Value = 128.1 V/m; Power Drift = -0.0066 dB
Average Value of Total = (169.3 + 171.8) / 2 = 170.55 V/m

Peak E-field in V/m

Grid 1 **162.6 M4**	Grid 2 **169.3 M4**	Grid 3 **163.7 M4**
Grid 4 **89.1 M4**	Grid 5 **92.3 M4**	Grid 6 **90 M4**
Grid 7 **168.3 M4**	Grid 8 **171.8 M4**	Grid 9 **166.0 M4**

Cursor:
Total = 171.8 V/m
E Category: M4
Location: 0.5, 73.5, 4.7 mm



0 dB = 171.8V/m

HAC_E_Dipole_1880_110416

DUT: HAC Dipole 1880 MHz

Communication System: GSM850; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3
Ambient Temperature：22.5 ℃

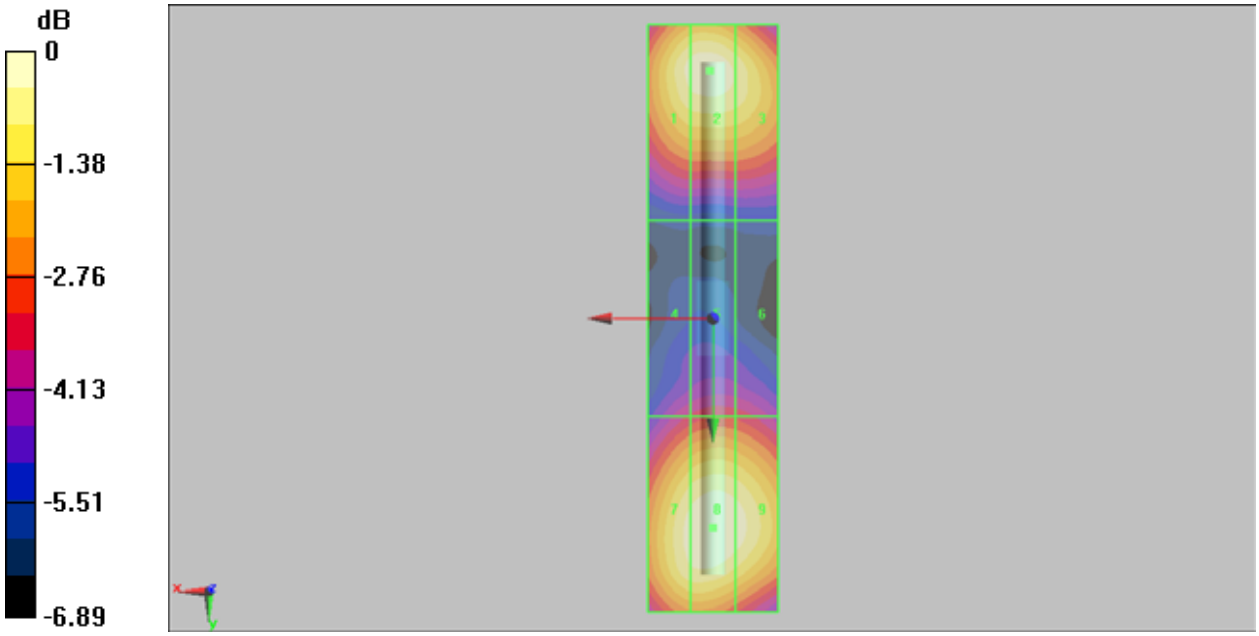
DASY5 Configuration:
- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2009/1/14
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn778; Calibrated: 2008/9/22
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm
Probe Modulation Factor = 1
Reference Value = 147.4 V/m; Power Drift = -0.015 dB
Average Value of Total = (143.6 + 145.1) / 2 = 144.35 V/m

Peak E-field in V/m

Grid 1 **140.5 M2**	Grid 2 **143.6 M2**	Grid 3 **136.8 M2**
Grid 4 **96.4 M3**	Grid 5 **100.5 M3**	Grid 6 **99.1 M3**
Grid 7 **141.3 M2**	Grid 8 **145.1 M2**	Grid 9 **141.6 M2**

Cursor:
Total = 145.1 V/m
E Category: M2
Location: 0, 32, 4.7 mm



0 dB = 145.1V/m

HAC_H_Dipole_835_110416

DUT: HAC-Dipole 835 MHz

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Ambient Temperature：22.5 ℃

DASY5 Configuration:
- Probe: H3DV6 - SN6184; ; Calibrated: 2011/1/25
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn778; Calibrated: 2010/10/22
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

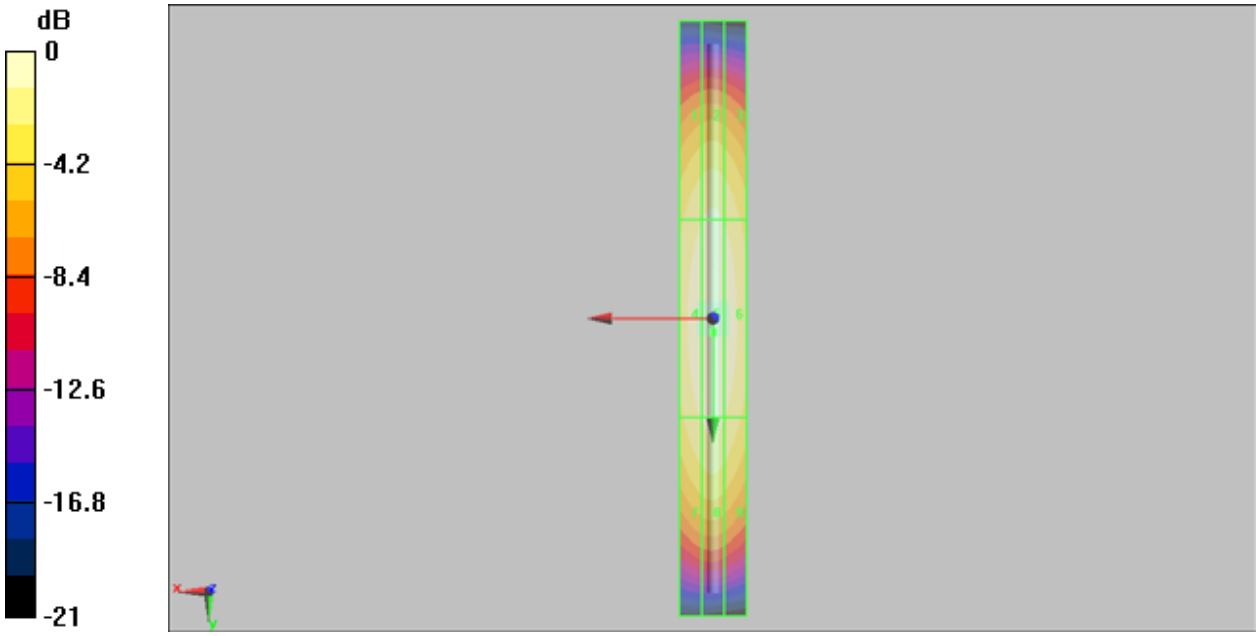
H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1):

Measurement grid: dx=5mm, dy=5mm
Probe Modulation Factor = 1
Reference Value = 0.518 A/m; Power Drift = -5.68e-005 dB
Maximum value of peak Total field = 0.468 A/m

Peak H-field in A/m

Grid 1 **0.396 M4**	Grid 2 **0.412 M4**	Grid 3 **0.394 M4**
Grid 4 **0.448 M4**	Grid 5 **0.468 M4**	Grid 6 **0.446 M4**
Grid 7 **0.402 M4**	Grid 8 **0.419 M4**	Grid 9 **0.398 M4**

Cursor:
Total = 0.468 A/m
H Category: M4
Location: 0, 4, 5.2 mm



0 dB = 0.468A/m

HAC_H_Dipole_1880_110416

DUT: HAC Dipole 1880 MHz

Communication System: CW; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Ambient Temperature：22.4 ℃

DASY5 Configuration:
- Probe: H3DV6 - SN6184; ; Calibrated: 2011/1/25
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn778; Calibrated: 2010/10/22
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

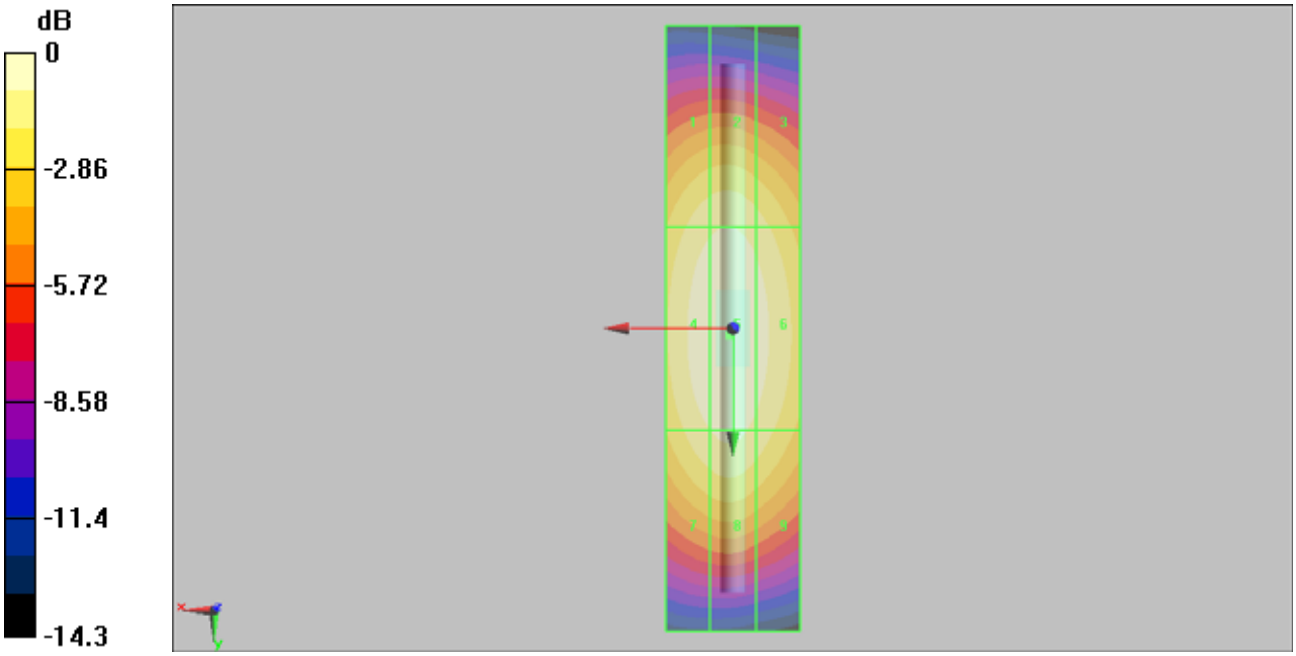
H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1
Reference Value = 0.541 A/m; Power Drift = -0.00563 dB
Maximum value of peak Total field = 0.493 A/m

Peak H-field in A/m

Grid 1 **0.432 M2**	Grid 2 **0.442 M2**	Grid 3 **0.417 M2**
Grid 4 **0.480 M2**	Grid 5 **0.493 M2**	Grid 6 **0.464 M2**
Grid 7 **0.441 M2**	Grid 8 **0.456 M2**	Grid 9 **0.427 M2**

Cursor:
Total = 0.493 A/m
H Category: M2
Location: 0.5, 1, 5.2 mm



0 dB = 0.493A/m