Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 9/16/2010

System Check_Head_835MHz_100916

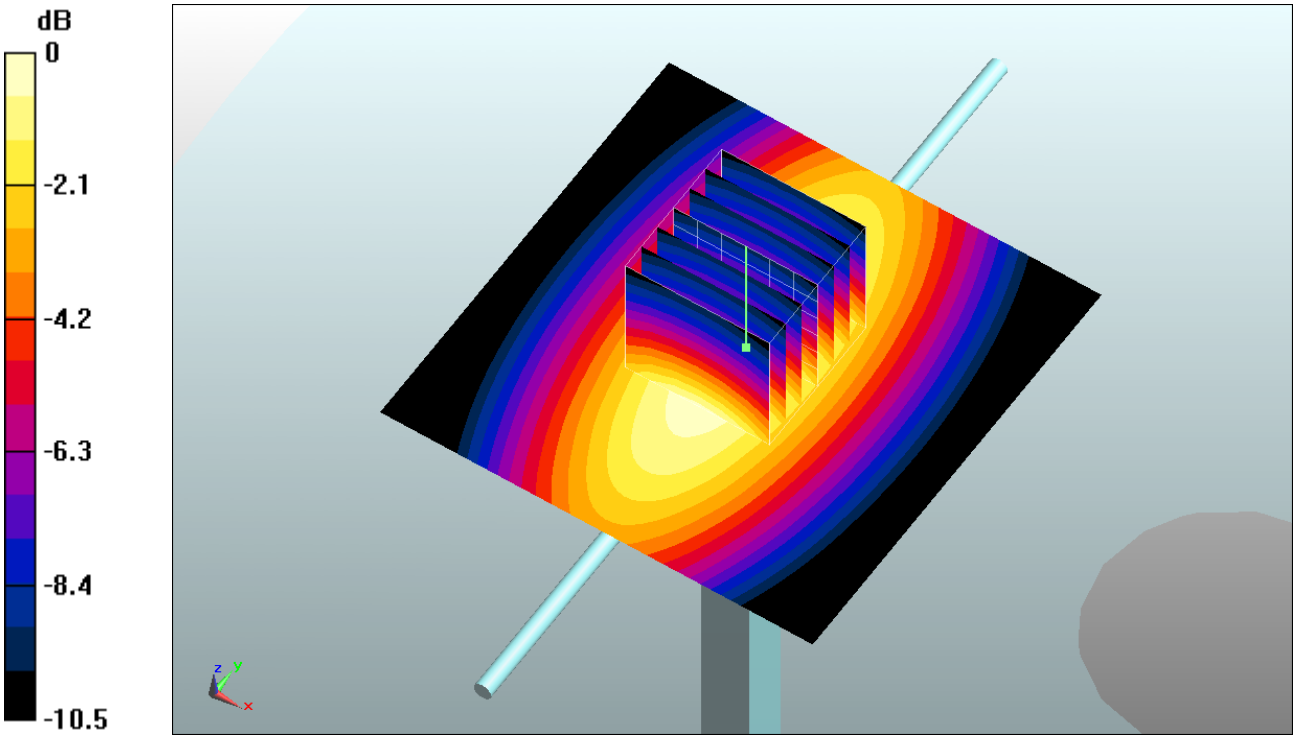
DUT: Dipole 835 MHz

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium: HSL_850_100916 Medium parameters used: f = 835 MHz; σ = 0.915 mho/m; ε_r = 41.5; ρ = 1000 kg/m^3
Ambient Temperature : 23.6 ˚C; Liquid Temperature : 21.5 ˚C

DASY5 Configuration:
- Probe: EX3DV4 - SN3697; ConvF(8.32, 8.32, 8.32); Calibrated: 11/23/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2009/11/16
- Phantom: SAM2; Type: SAM; Serial: TP-1479
- Measurement SW : DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 57

Pin=100mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.994 mW/g

Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 33 V/m; Power Drift = -0.0019 dB
Peak SAR (extrapolated) = 1.39 W/kg
SAR(1 g) = 0.920 mW/g; SAR(10 g) = 0.601 mW/g
Maximum value of SAR (measured) = 0.989 mW/g



0 dB = 0.989mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 9/16/2010

System Check_Body_835MHz_100916

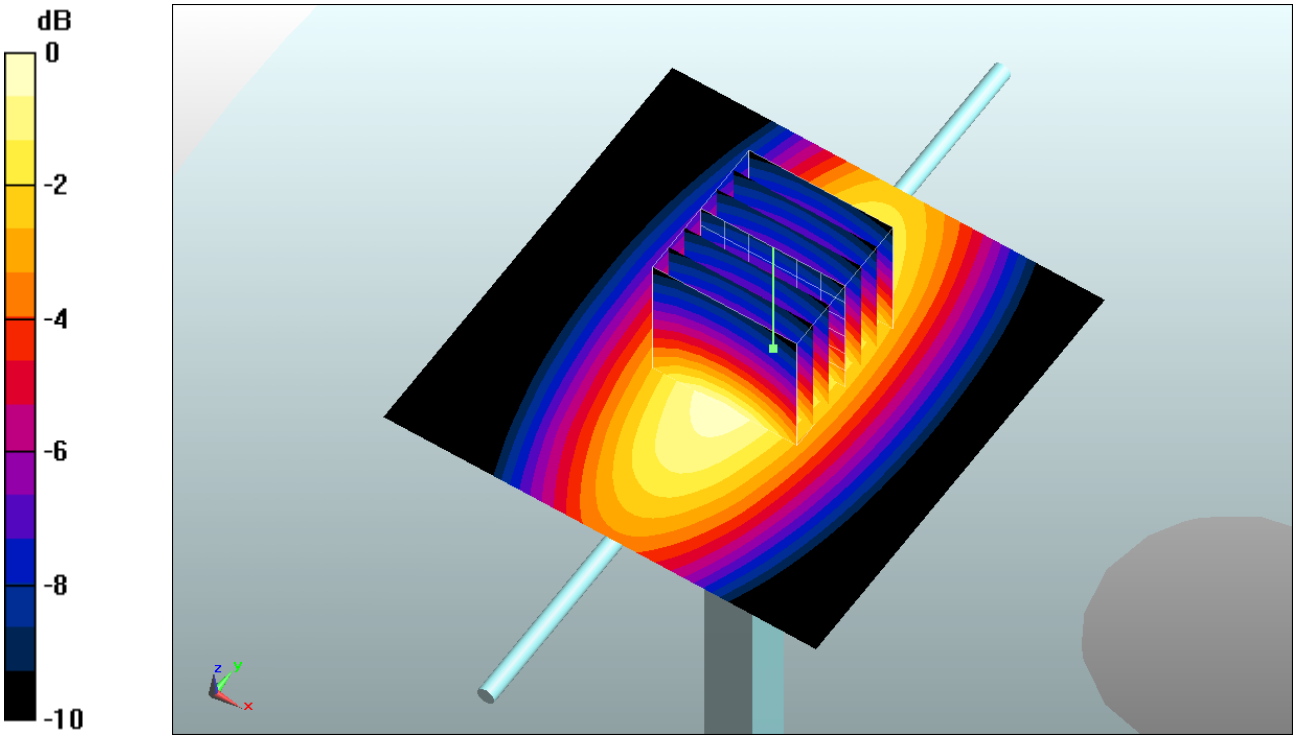
DUT: Dipole 835 MHz

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium: MSL_850_100916 Medium parameters used: f = 835 MHz; σ = 0.969 mho/m; ε_r = 56.1; ρ = 1000 kg/m^3
Ambient Temperature : 23.5 ˚C; Liquid Temperature : 21.4 ˚C

DASY5 Configuration:
- Probe: EX3DV4 - SN3697; ConvF(8.22, 8.22, 8.22); Calibrated: 11/23/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2009/11/16
- Phantom: SAM1; Type: SAM; Serial: TP-1477
- Measurement SW : DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 57

Pin=100mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.02 mW/g

Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 32.1 V/m; Power Drift = -0.012 dB
Peak SAR (extrapolated) = 1.41 W/kg
SAR(1 g) = 0.950 mW/g; SAR(10 g) = 0.628 mW/g
Maximum value of SAR (measured) = 1.02 mW/g



0 dB = 1.02mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 9/17/2010

System Check_Head_1900MHz_100917

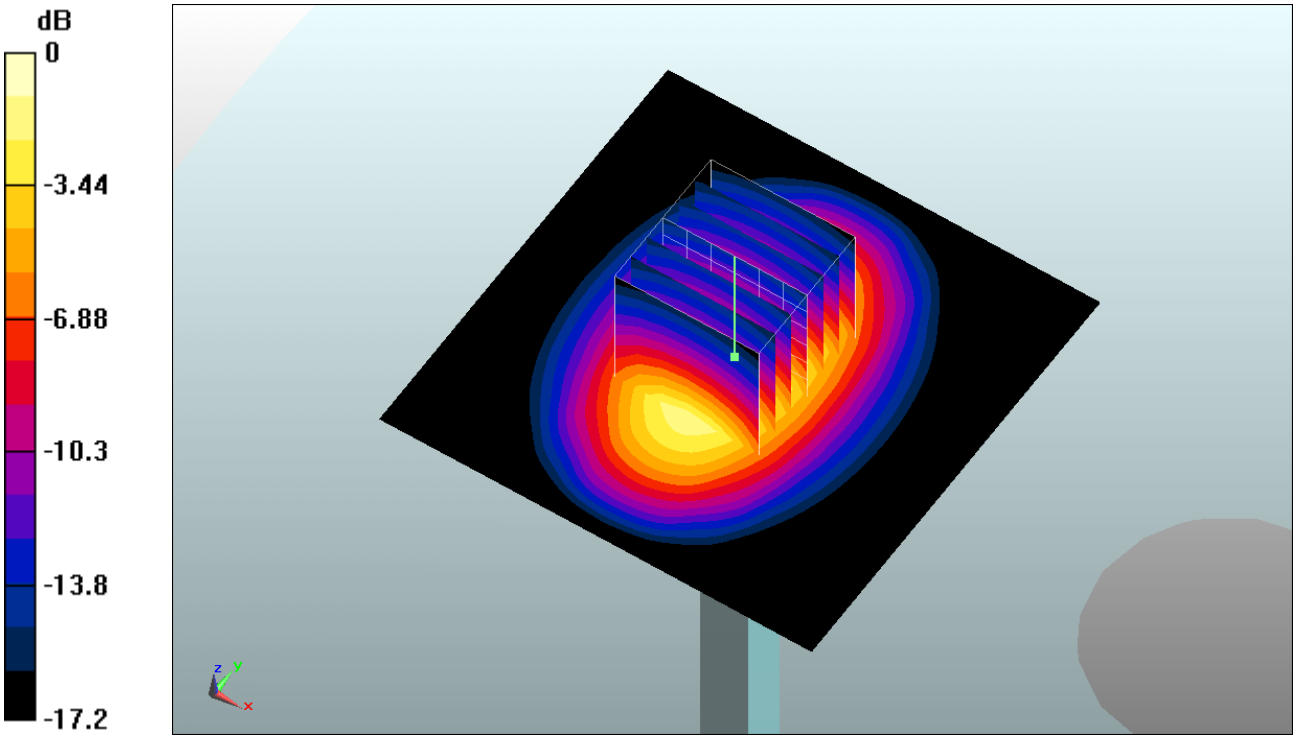
DUT: Dipole 1800 MHz

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: HSL_1900_100917 Medium parameters used: f = 1900 MHz; σ = 1.41 mho/m; ε_r = 40.5; ρ = 1000 kg/m^3
Ambient Temperature : 23.7 ˚C; Liquid Temperature : 21.6 ˚C

DASY5 Configuration:
- Probe: EX3DV4 - SN3697; ConvF(7.32, 7.32, 7.32); Calibrated: 11/23/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2009/11/16
- Phantom: SAM2; Type: SAM; Serial: TP-1479
- Measurement SW : DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 57

Pin=100mW/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 4.54 mW/g

Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 56.2 V/m; Power Drift = 0.00120 dB
Peak SAR (extrapolated) = 7.53 W/kg
SAR(1 g) = 4 mW/g; SAR(10 g) = 2.08 mW/g
Maximum value of SAR (measured) = 4.5 mW/g



0 dB = 4.5mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 9/17/2010

System Check_Body_1900MHz_100917

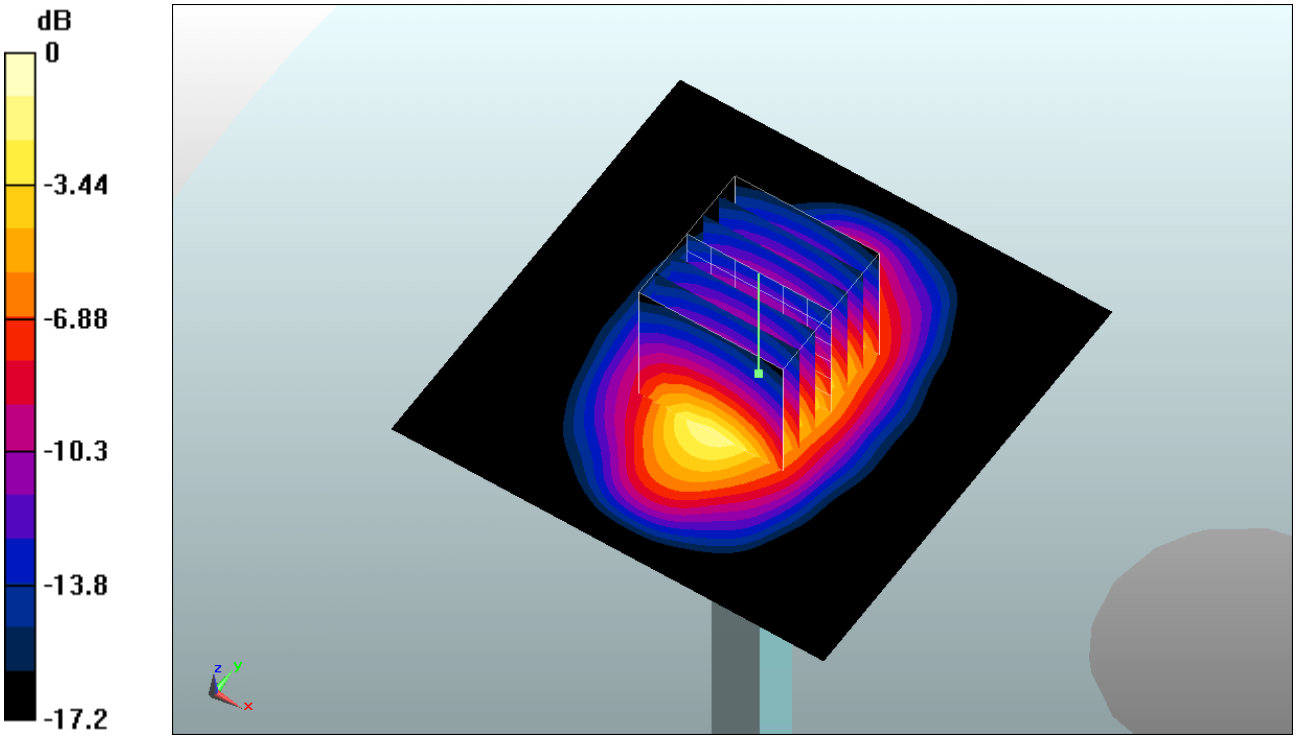
DUT: Dipole 1900 MHz

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: MSL_1900_100917 Medium parameters used: f = 1900 MHz; σ = 1.52 mho/m; ε_r = 54.5; ρ = 1000 kg/m^3
Ambient Temperature : 23.7 ˚C; Liquid Temperature : 21.5 ˚C

DASY5 Configuration:
- Probe: EX3DV4 - SN3697; ConvF(7.04, 7.04, 7.04); Calibrated: 11/23/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2009/11/16
- Phantom: SAM1; Type: SAM; Serial: TP-1477
- Measurement SW : DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 57

Pin=100mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 4.61 mW/g

Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 54.5 V/m; Power Drift = -0.0035 dB
Peak SAR (extrapolated) = 7.61 W/kg
SAR(1 g) = 4.05 mW/g; SAR(10 g) = 2.08 mW/g
Maximum value of SAR (measured) = 4.6 mW/g



0 dB = 4.6mW/g