Date: 2011/12/24

Test Laboratory: UL Japan, Inc. Head Office EMC Lab. SAR Room

System Check_2.45GHz

Communication System: CW; Frequency: 2450 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2450 MHz; σ = 1.98 mho/m; ε_r = 51.306; ρ = 1000 kg/m^3
Phantom section: Flat Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

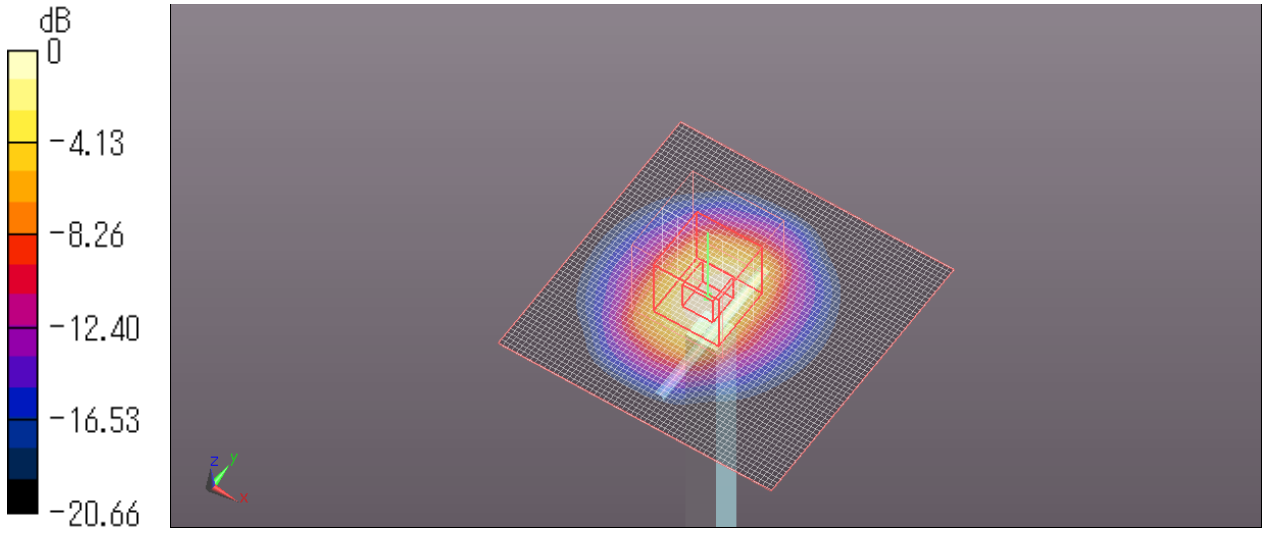
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3540; ConvF(7.64, 7.64, 7.64); Calibrated: 2011/07/21
- Sensor-Surface: 2.0mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn509; Calibrated: 2011/07/20
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1045
- Measurement SW: DASY52, Version 52.6 (2);SEMCAD X Version 14.4.5 (3634)

2.45GHz/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 6.747 mW/g

2.45GHz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 60.204 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 10.104 W/kg
SAR(1 g) = 5.01 mW/g; SAR(10 g) = 2.36 mW/g
Maximum value of SAR (measured) = 7.080 mW/g



0 dB = 7.080mW/g

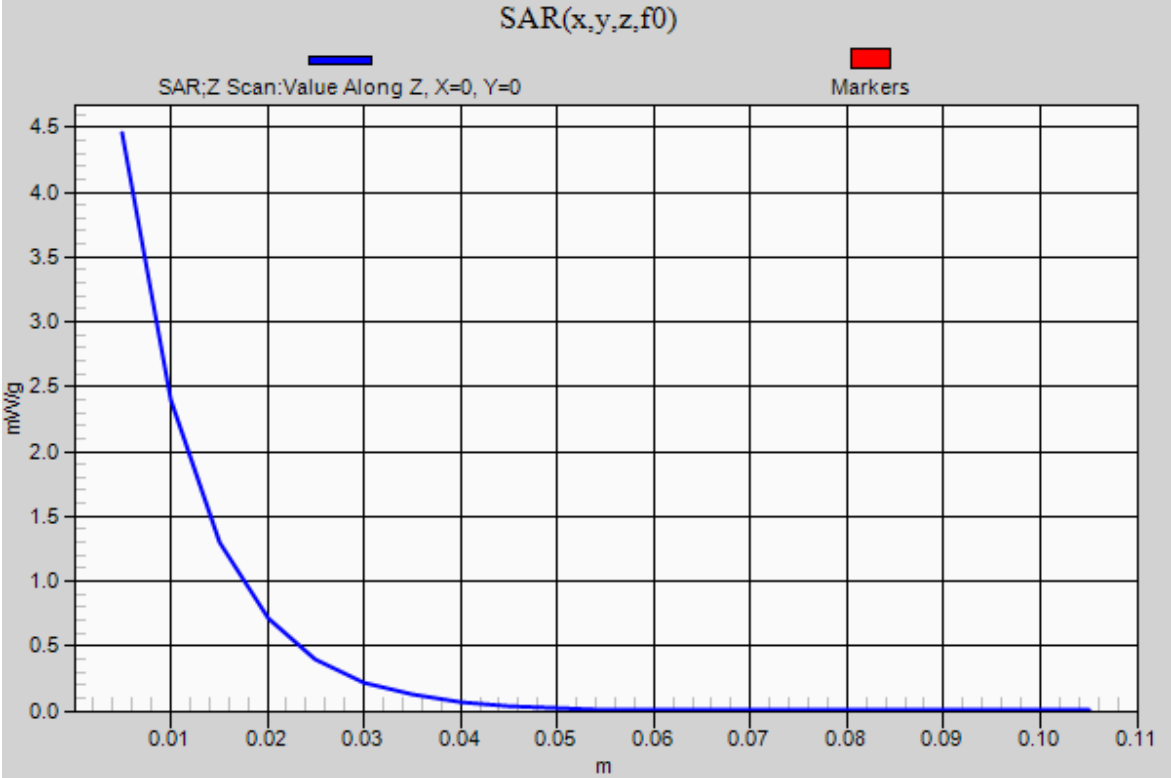
Date: 2011/12/24

Test Laboratory: UL Japan, Inc. Head Office EMC Lab. SAR Room

System Check_2.45GHz

Communication System: CW; Frequency: 2450 MHz;Duty Cycle: 1:1

2.45GHz/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Maximum value of SAR (measured) = 4.455 mW/g



Date: 2011/12/24

Test Laboratory: UL Japan, Inc. Head Office EMC Lab. SAR Room

System Check_5GHz

Communication System: CW; Frequency: 5200 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5200 MHz; σ = 5.266 mho/m; ε_r = 50.664; ρ = 1000 kg/m^3
Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 deg. C

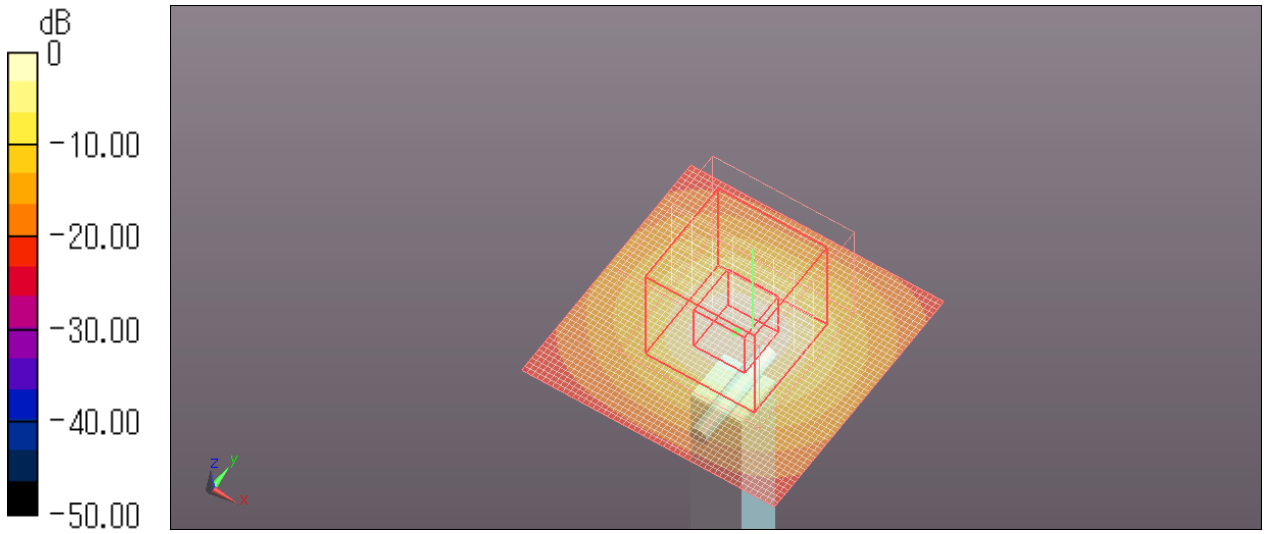
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3540; ConvF(3.94, 3.94, 3.94); Calibrated: 2011/07/21
- Sensor-Surface: 2mm (Mechanical Surface Detection), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn509; Calibrated: 2011/07/20
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1045
- Measurement SW: DASY52, Version 52.6 (2);SEMCAD X Version 14.4.5 (3634)

5.2GHz/Area Scan (51x51x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 15.927 mW/g

5.2GHz/Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 61.446 V/m; Power Drift = -0.003 dB
Peak SAR (extrapolated) = 30.157 W/kg
SAR(1 g) = 7.57 mW/g; SAR(10 g) = 2.09 mW/g
Maximum value of SAR (measured) = 15.054 mW/g



0 dB = 15.050mW/g

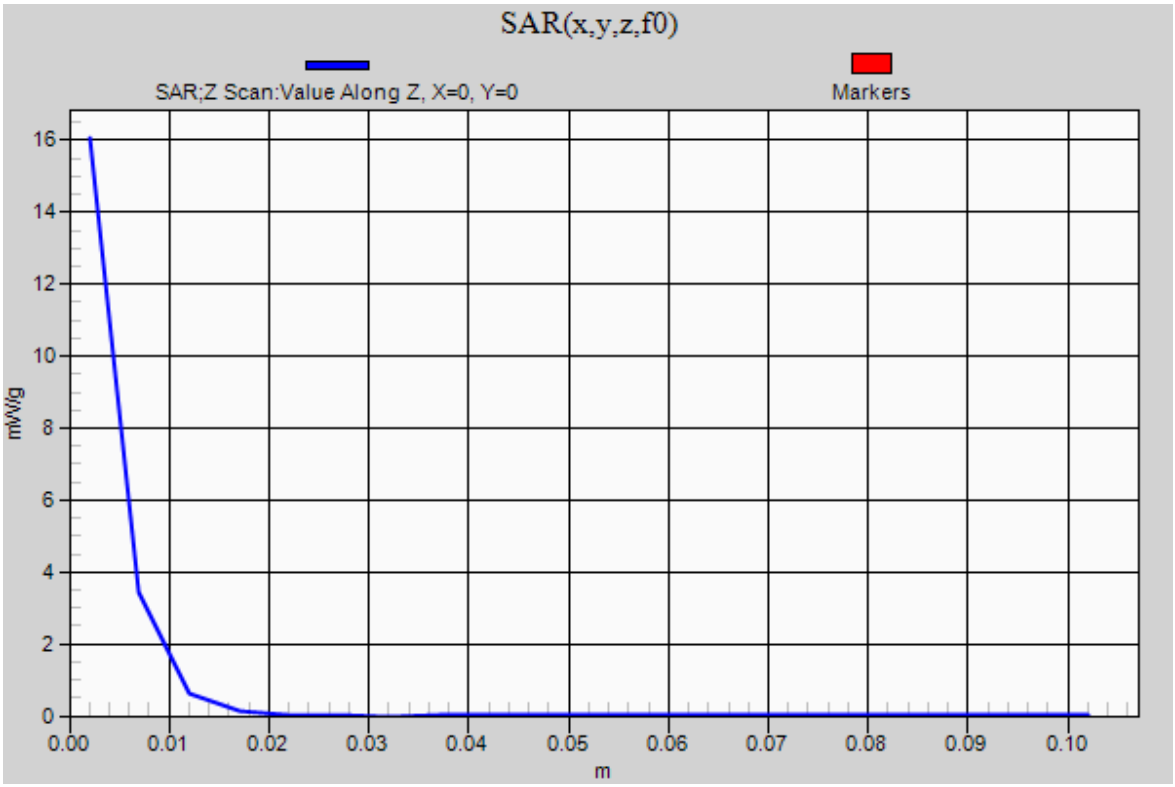
Date: 2011/12/24

Test Laboratory: UL Japan, Inc. Head Office EMC Lab. SAR Room

System Check_5GHz

Communication System: CW; Frequency: 5200 MHz;Duty Cycle: 1:1

5.2GHz/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Maximum value of SAR (measured) = 16.062 mW/g



Date: 2011/12/24

Test Laboratory: UL Japan, Inc. Head Office EMC Lab. SAR Room

System Check_5GHz

Communication System: CW; Frequency: 5500 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5500 MHz; σ = 5.706 mho/m; ε_r = 50.105; ρ = 1000 kg/m^3
Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 deg. C

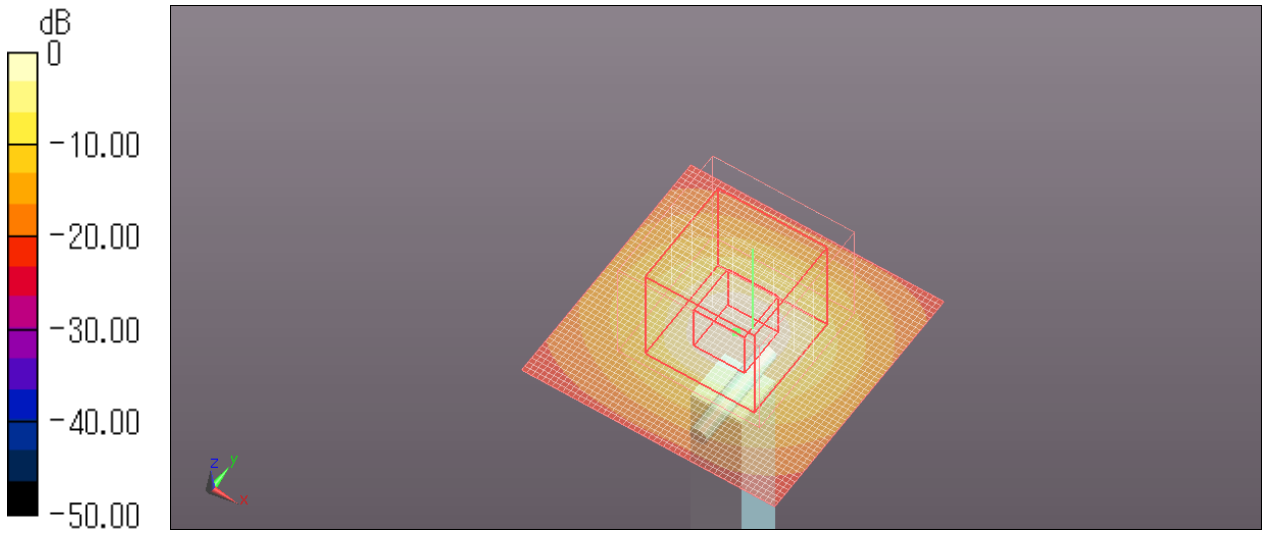
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3540; ConvF(3.56, 3.56, 3.56); Calibrated: 2011/07/21
- Sensor-Surface: 2mm (Mechanical Surface Detection), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn509; Calibrated: 2011/07/20
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1045
- Measurement SW: DASY52, Version 52.6 (2);SEMCAD X Version 14.4.5 (3634)

5.5GHz/Area Scan (51x51x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 17.389 mW/g

5.5GHz/Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 61.818 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 33.132 W/kg
SAR(1 g) = 8.01 mW/g; SAR(10 g) = 2.19 mW/g
Maximum value of SAR (measured) = 16.121 mW/g



0 dB = 16.120mW/g

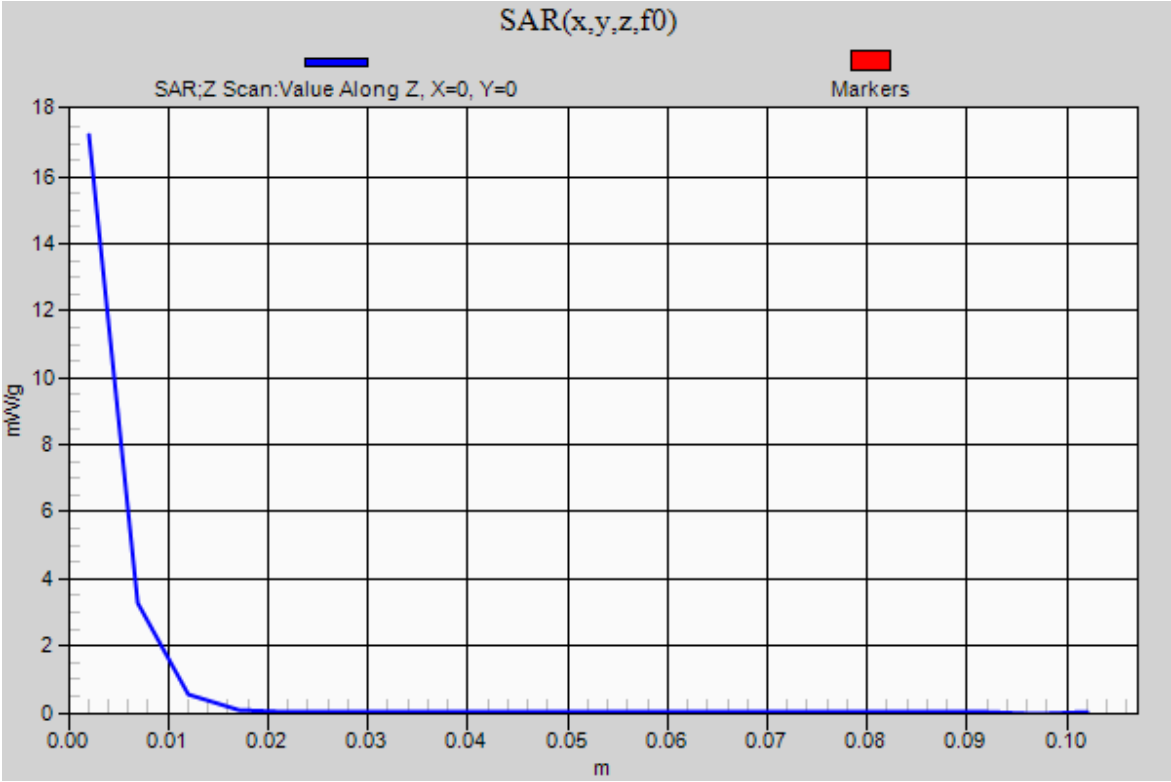
Date: 2011/12/24

Test Laboratory: UL Japan, Inc. Head Office EMC Lab. SAR Room

System Check_5GHz

Communication System: CW; Frequency: 5500 MHz;Duty Cycle: 1:1

5.5GHz/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Maximum value of SAR (measured) = 17.244 mW/g



Date: 2011/12/24

Test Laboratory: UL Japan, Inc. Head Office EMC Lab. SAR Room

System Check_5GHz

Communication System: CW; Frequency: 5800 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5800 MHz; σ = 6.163 mho/m; ε_r = 49.545; ρ = 1000 kg/m^3
Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 deg. C

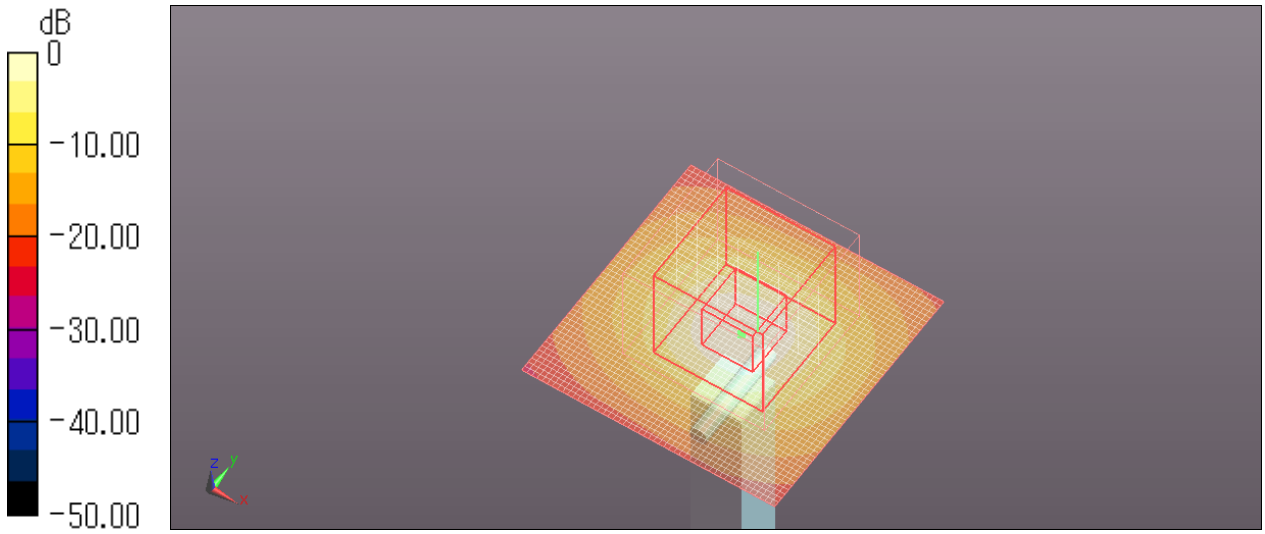
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3540; ConvF(3.4, 3.4, 3.4); Calibrated: 2011/07/21
- Sensor-Surface: 2mm (Mechanical Surface Detection), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn509; Calibrated: 2011/07/20
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1045
- Measurement SW: DASY52, Version 52.6 (2);SEMCAD X Version 14.4.5 (3634)

5.8GHz/Area Scan (51x51x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 17.260 mW/g

5.8GHz/Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 61.022 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 34.971 W/kg
SAR(1 g) = 7.87 mW/g; SAR(10 g) = 2.14 mW/g
Maximum value of SAR (measured) = 16.196 mW/g



0 dB = 16.200mW/g

Date: 2011/12/24

Test Laboratory: UL Japan, Inc. Head Office EMC Lab. SAR Room

System Check_5GHz

Communication System: CW; Frequency: 5800 MHz;Duty Cycle: 1:1

5.8GHz/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Maximum value of SAR (measured) = 17.883 mW/g