

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab

Date: 2015.04.04

01_GSM850_GPRS(1 Tx slots)_Edge 2_0cm_Ch251_Sensor Off

Communication System: UID 0, Generic GSM (0); Frequency: 848.8 MHz;Duty Cycle: 1:8.3
Medium: MSL_835_150404 Medium parameters used: $f = 84$

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab

Date: 2015.04.05

02_GSM1900_GPRS(4 Tx slots)_Bottom Face_0cm_Ch810_Sensor On

Communication System: UID 0, GPRS/EDGE12 (0); Frequency: 1909.8 MHz;Duty Cycle: 1:2.08
Medium: MSL_1900_150405 Medium parameters used: f = 19

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab

Date: 2015.04.04

03_WCDMA V_RMC 12.2K_Bottom Face_0cm_Ch4233_Sensor On

Communication System: UID 0, UMTS (0); Frequency: 846.6 MHz;Duty Cycle: 1:1

Medium: MSL_835_150404 Medium parameters used: $f = 84$

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab

Date: 2015.04.04

05_LTE Band 41_20M_QPSK_50RB_0Offset_Bottom Face_0cm_Ch40607_Sensor On

Communication System: UID 0, LTE (0); Frequency: 2591.7 MHz;Duty Cycle: 1:1

Medium: MSL_2600_150404 Medium parameters used: $f = 259$

06_WLAN2.4GHz_802.11g 6Mbps_Bottom Face_0cm_Ch11

Communication System: UID 0, WIFI (0); Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: MSL_2450_150404 Medium parameters used: $f = 2462$ MHz; $\sigma = 2.012$ S/m; $\epsilon_r = 52.233$;

$\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3819; ConvF(6.95, 6.95, 6.95); Calibrated: 2014.11.13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2014.12.11
- Phantom: SAM3; Type: QDOVA002AA; Serial: TP:1149
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Ch11/Area Scan (161x91x1): Interpolated grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (interpolated) = 0.768 W/kg

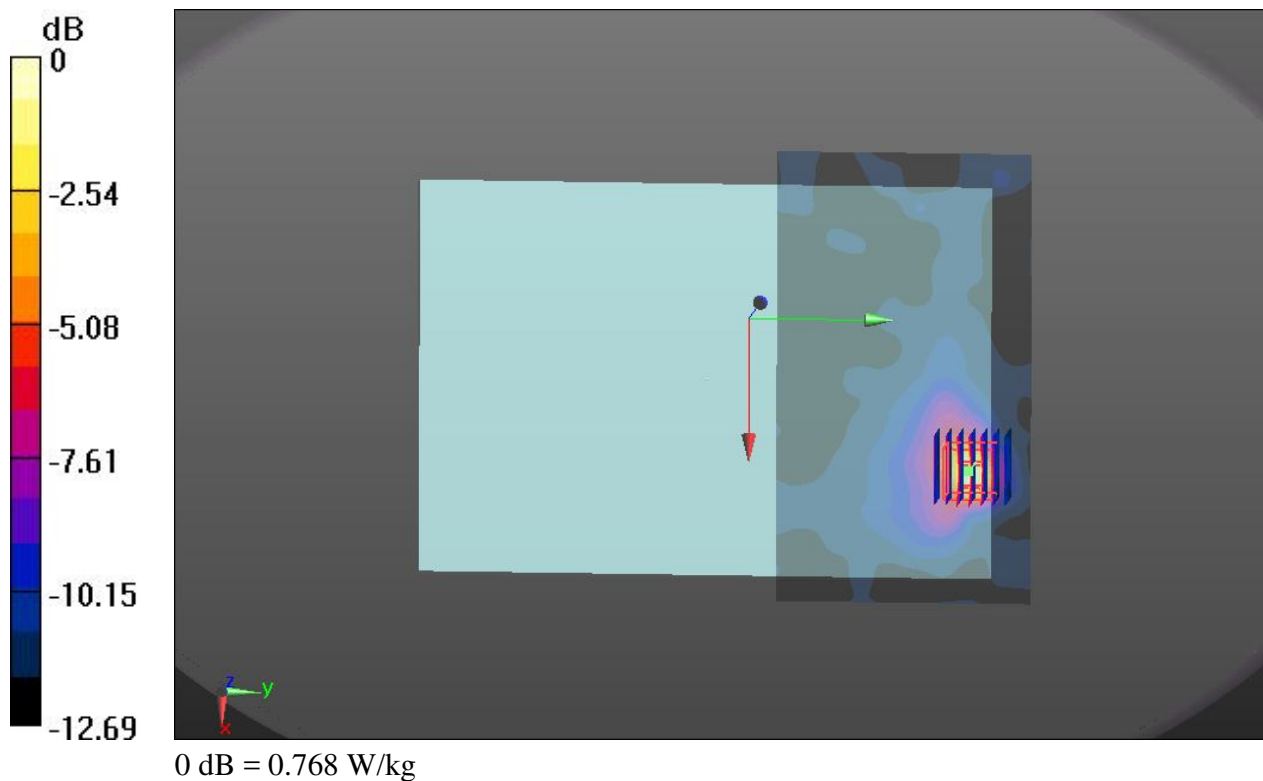
Ch11/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 4.987 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.67 W/kg

SAR(1 g) = 0.698 W/kg; SAR(10 g) = 0.239 W/kg

Maximum value of SAR (measured) = 0.970 W/kg



07_Bluetooth_DH5_Bottom Face_0cm_Ch0

Communication System: UID 0, Bluetooth (0); Frequency: 2402 MHz; Duty Cycle: 1:1.2
Medium: MSL_2450_150404 Medium parameters used: $f = 2402$ MHz; $\sigma = 1.935$ S/m; $\epsilon_r = 52.472$;
 $\rho = 1000$ kg/m³
Ambient Temperature : 23.4 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3819; ConvF(6.95, 6.95, 6.95); Calibrated: 2014.11.13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2014.12.11
- Phantom: SAM3; Type: QDOVA002AA; Serial: TP:1149
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Ch0/Area Scan (161x91x1): Interpolated grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 1.03 W/kg

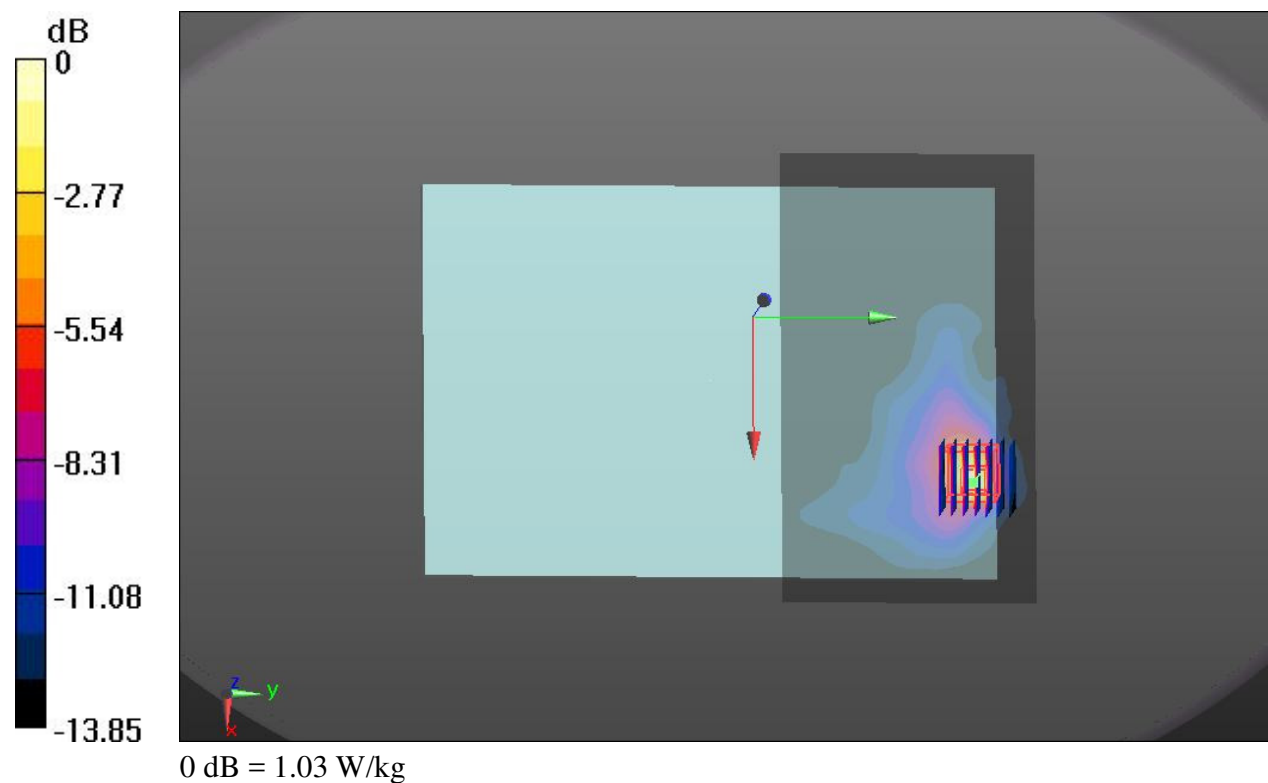
Ch0/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.066 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.93 W/kg

SAR(1 g) = 0.625 W/kg; SAR(10 g) = 0.242 W/kg

Maximum value of SAR (measured) = 1.16 W/kg



08_WLAN5G Band 1_802.11a 6Mbps_Bottom Face_0cm_Ch48

Communication System: UID 0, WIFI (0); Frequency: 5240 MHz; Duty Cycle: 1:1

Medium: MSL_5200_150405 Medium parameters used: $f = 5240$ MHz; $\sigma = 5.367$ S/m; $\epsilon_r = 49.141$;

$\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3819; ConvF(4.52, 4.52, 4.52); Calibrated: 2014.11.13;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2014.12.11
- Phantom: SAM3; Type: QDOVA002AA; Serial: TP:1149
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Ch48/Area Scan (191x91x1): Interpolated grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.64 W/kg

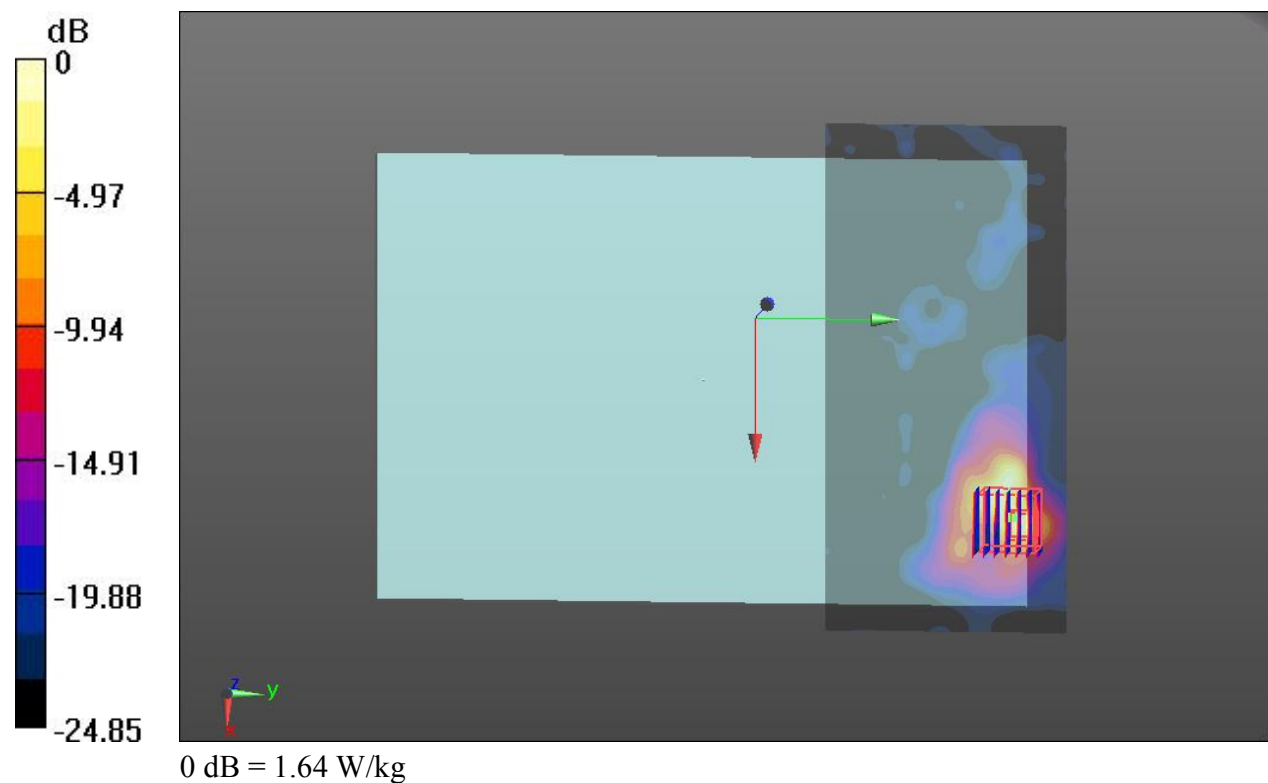
Ch48/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 1.508 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 4.95 W/kg

SAR(1 g) = 0.633 W/kg; SAR(10 g) = 0.160 W/kg

Maximum value of SAR (measured) = 2.43 W/kg



09_WLAN5G Band 2_802.11a 6Mbps_Bottom Face_0cm_Ch64

Communication System: UID 0, WIFI (0); Frequency: 5320 MHz; Duty Cycle: 1:1

Medium: MSL_5300_150405 Medium parameters used: $f = 5320$ MHz; $\sigma = 5.448$ S/m; $\epsilon_r = 48.942$;

$\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3819; ConvF(4.37, 4.37, 4.37); Calibrated: 2014.11.13;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2014.12.11
- Phantom: SAM3; Type: QDOVA002AA; Serial: TP:1149
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Ch64/Area Scan (191x91x1): Interpolated grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.49 W/kg

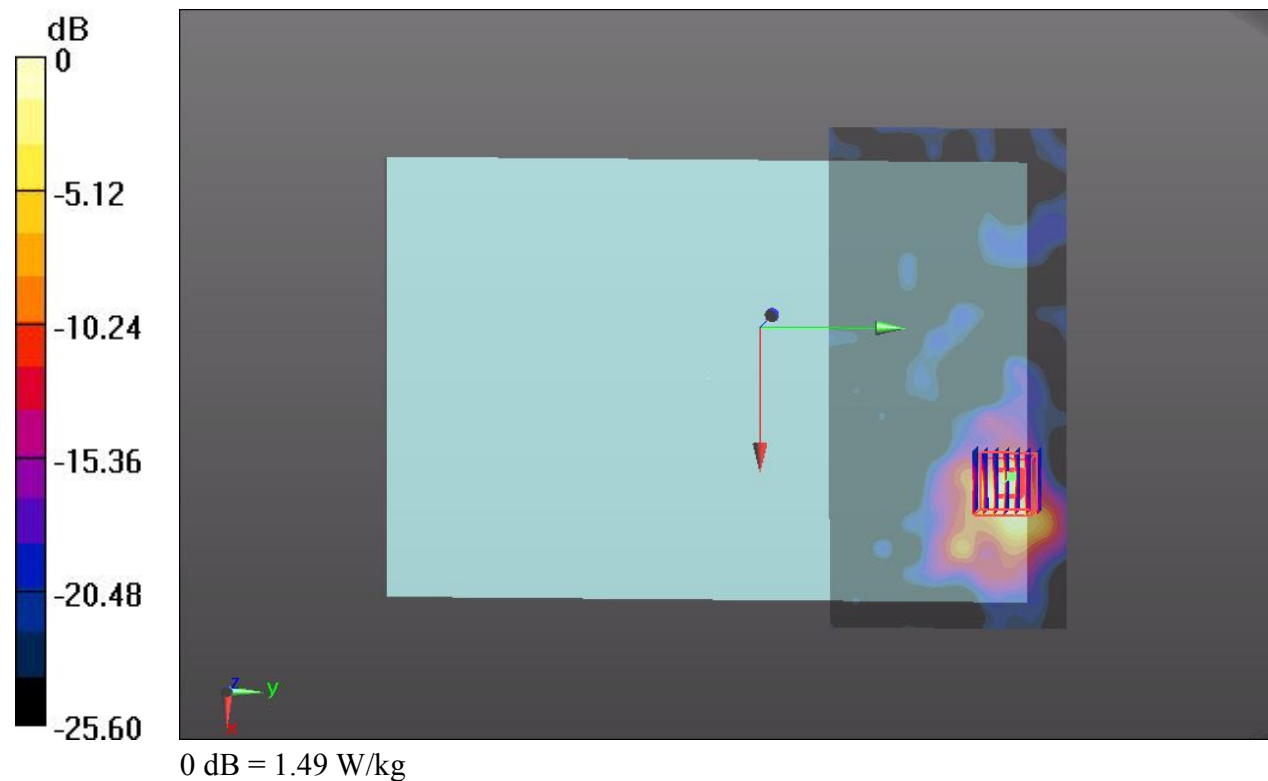
Ch64/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 1.296 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 5.42 W/kg

SAR(1 g) = 0.703 W/kg; SAR(10 g) = 0.176 W/kg

Maximum value of SAR (measured) = 2.35 W/kg



10_WLAN5G Band 4_802.11a 6Mbps_Bottom Face_0cm_Ch161

Communication System: UID 0, WIFI (0); Frequency: 5805 MHz; Duty Cycle: 1:1

Medium: MSL_5800_150405 Medium parameters used: $f = 5805$ MHz; $\sigma = 6.167$ S/m; $\epsilon_r = 47.968$;

$\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3819; ConvF(4.07, 4.07, 4.07); Calibrated: 2014.11.13;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2014.12.11
- Phantom: SAM3; Type: QDOVA002AA; Serial: TP:1149
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Ch161/Area Scan (191x91x1): Interpolated grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.65 W/kg

Ch161/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 7.335 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 6.22 W/kg

SAR(1 g) = 0.932 W/kg; SAR(10 g) = 0.456 W/kg

Maximum value of SAR (measured) = 2.17 W/kg

