



## Appendix A. Plots of System Performance Check

## System Check\_B835\_160607

**DUT: Dipole 835 MHz D835V2\_ SN: 4d167**

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: B835\_160607 Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.996$  S/m;  $\epsilon_r = 56.534$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Ambient Temperature : 23.4 °C; Liquid Temperature : 22.5 °C**

DASY5 Configuration:

- Probe: EX3DV4 - SN3976; ConvF(9.93, 9.93, 9.93); Calibrated: 2016/2/22;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1424; Calibrated: 2016/2/16
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1238
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.58 W/kg

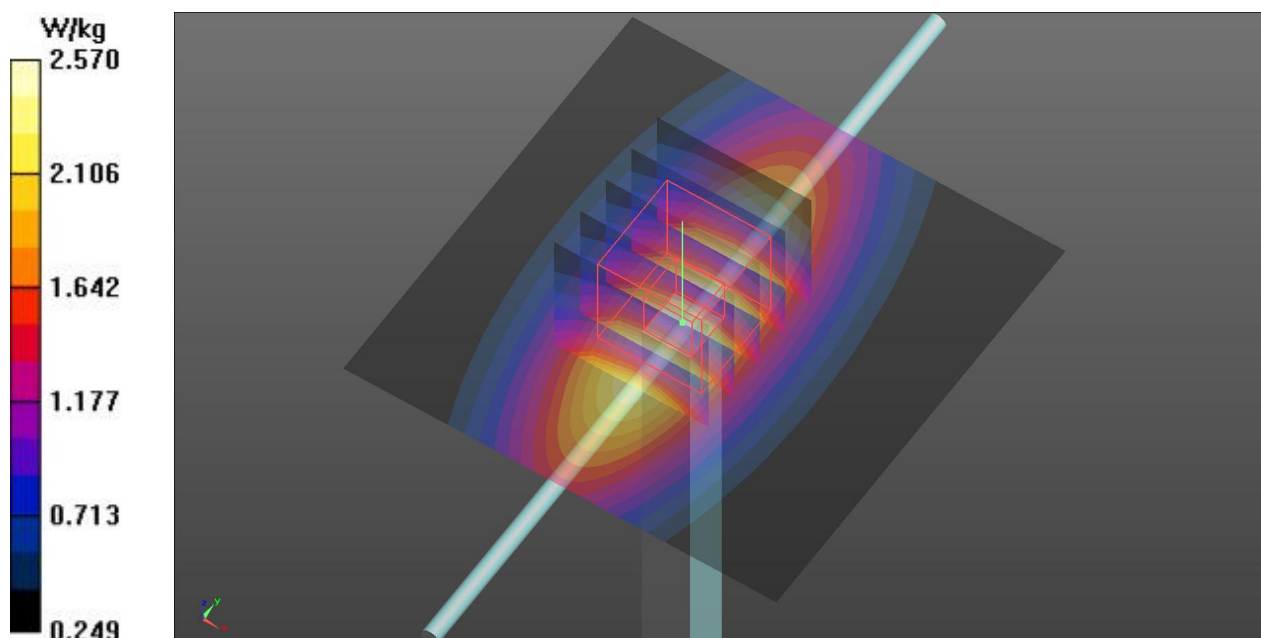
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 50.81 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 3.24 W/kg

**SAR(1 g) = 2.21 W/kg; SAR(10 g) = 1.47 W/kg**

Maximum value of SAR (measured) = 2.57 W/kg



## System Check\_B1900\_160603

### DUT: Dipole 1900 MHz\_SN: 5d185

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: B1900\_160603 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.533$  S/m;  $\epsilon_r = 54.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Ambient Temperature : 23.5 °C; Liquid Temperature : 22.3 °C**

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3976; ConvF(8.06, 8.06, 8.06); Calibrated: 2016/2/22;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1424; Calibrated: 2016/2/16
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1238
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 13.5 W/kg

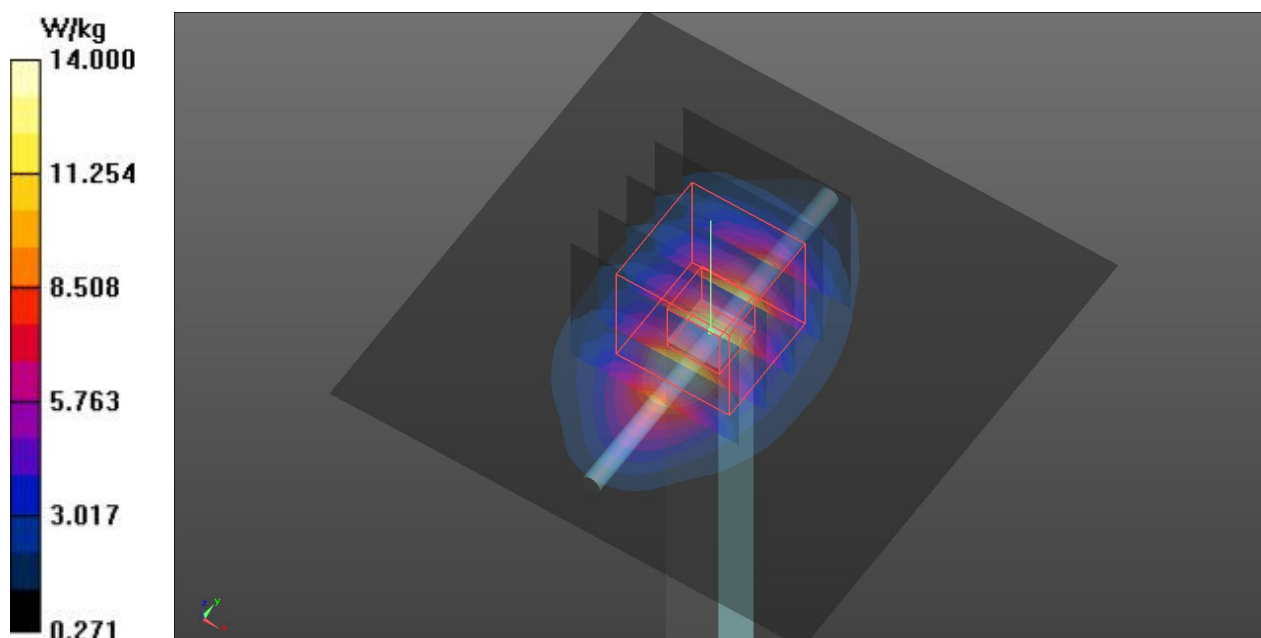
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 89.96 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 17.4 W/kg

**SAR(1 g) = 9.84 W/kg; SAR(10 g) = 5.18 W/kg**

Maximum value of SAR (measured) = 14.0 W/kg



## System Check\_B2450\_160607

### DUT: Dipole 2450MHz D2450V2\_ SN: 929

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

Medium: B2450\_160607 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.934$  S/m;  $\epsilon_r = 52.846$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Ambient Temperature : 23.5 °C; Liquid Temperature : 22.5 °C**

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3976; ConvF(7.45, 7.45, 7.45); Calibrated: 2016/2/22;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1424; Calibrated: 2016/2/16
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1238
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 18.1 W/kg

**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 97.54 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 24.4 W/kg

**SAR(1 g) = 11.9 W/kg; SAR(10 g) = 5.5 W/kg**

Maximum value of SAR (measured) = 18.1 W/kg

