Test Laboratory: BTL.Inc Date: 2018-12-22

#### **System Check\_B2450\_12-22**

#### DUT: Dipole 2450 MHz D2450V2;SN:919;

Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1 Medium parameters used: f = 2450 MHz;  $\sigma = 2.045$  S/m;  $\epsilon_r = 50.242$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C; Liquid Temperature : 22.1 °C

## **DASY Configuration:**

Probe: EX3DV4 - SN7396; ConvF(7.7, 7.7, 7.7) @ 2450 MHz; Calibrated: 2018-05-29

• Sensor-Surface: 4mm (Mechanical Surface Detection), z = 1.0, 31.0

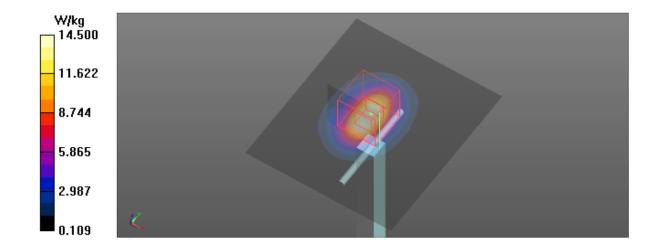
• Electronics: DAE3 Sn420; Calibrated: 2018-03-22

Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1222

DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (8x9x1):** Interpolated grid: dx=12 mm, dy=12 mm Maximum value of SAR (interpolated) = 15.4 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 97.67 V/m; Power Drift = -0.03 dB Peak SAR (extrapolated) = 24.5 W/kg SAR(1 g) = 12.7 W/kg; SAR(10 g) = 5.99 W/kg Maximum value of SAR (measured) = 14.5 W/kg



Test Laboratory: BTL.lnc Date: 2018/12/19

## System Check\_B5300\_12-19

#### DUT: Dipole D5GHzV2;SN;1160;

Communication System: UID 0, CW (0); Frequency: 5300 MHz; Duty Cycle: 1:1 Medium parameters used: f = 5300 MHz;  $\sigma = 5.495$  S/m;  $\epsilon_r = 47.444$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.2 °C; Liquid Temperature: 22.5 °C

## **DASY Configuration:**

Probe: EX3DV4 - SN7396; ConvF(5.05, 5.05, 5.05) @ 5300 MHz; Calibrated: 2018-05-29

Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 23.0

• Electronics: DAE3 Sn420; Calibrated: 2018-03-22

Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1222

• DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

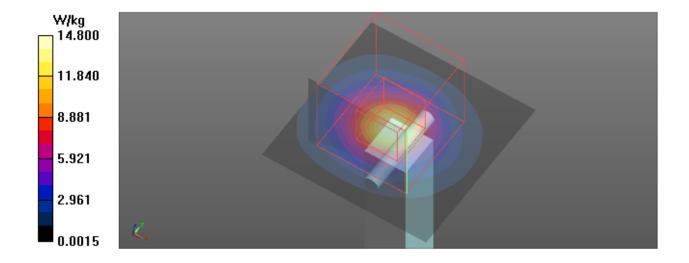
**Area Scan (5x5x1):** Interpolated grid: dx=10 mm, dy=10 mm Maximum value of SAR (interpolated) = 14.4 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 36.34 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 31.4 W/kg

SAR(1 g) = 6.92 W/kg; SAR(10 g) = 1.95 W/kg Maximum value of SAR (measured) = 14.8 W/kg



Test Laboratory: BTL.Inc Date: 2018/12/20

## **System Check\_B5500\_12-20**

# DUT: Dipole D5GHzV2;SN;1160;

Communication System: UID 0, CW (0); Frequency: 5500 MHz; Duty Cycle: 1:1 Medium parameters used: f = 5500 MHz;  $\sigma$  = 5.768 S/m;  $\epsilon_r$  = 47.015;  $\rho$  = 1000 kg/m<sup>3</sup>

Ambient Temperature: 23.4 °C; Liquid Temperature: 22.3 °C

## **DASY Configuration:**

Probe: EX3DV4 - SN7396; ConvF(4.38, 4.38, 4.38) @ 5500 MHz; Calibrated: 2018-05-29

• Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 23.0

• Electronics: DAE3 Sn420; Calibrated: 2018-03-22

Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1222

DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

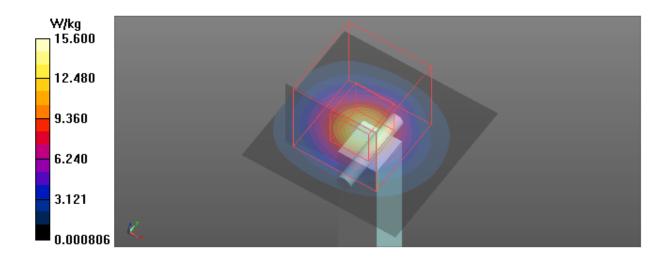
**Area Scan (5x5x1):** Interpolated grid: dx=10 mm, dy=10 mm Maximum value of SAR (interpolated) = 15.3 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 35.95 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 33.8 W/kg

SAR(1 g) = 7.3 W/kg; SAR(10 g) = 2.06 W/kg Maximum value of SAR (measured) = 15.6 W/kg



Test Laboratory: BTL.lnc Date: 2018/12/20

## **System Check\_B5600\_12-20**

# DUT: Dipole D5GHzV2;SN;1160;

Communication System: UID 0, CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1 Medium parameters used: f = 5600 MHz;  $\sigma$  = 5.9 S/m;  $\epsilon_r$  = 46.819;  $\rho$  = 1000 kg/m<sup>3</sup>

Ambient Temperature: 23.4 °C; Liquid Temperature: 22.3 °C

## **DASY Configuration:**

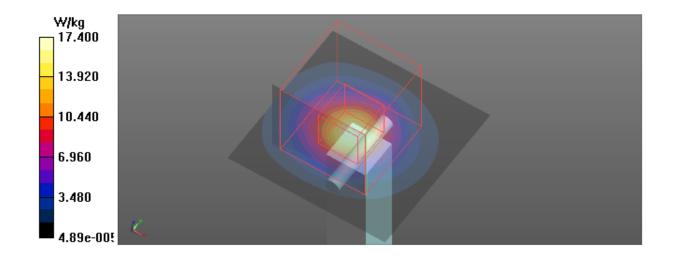
Probe: EX3DV4 - SN7396; ConvF(4.38, 4.38, 4.38) @ 5600 MHz; Calibrated: 2018-05-29

- Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 23.0
- Electronics: DAE3 Sn420; Calibrated: 2018-03-22
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (5x5x1):** Interpolated grid: dx=10 mm, dy=10 mm Maximum value of SAR (interpolated) = 16.9 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm Reference Value = 37.03 V/m; Power Drift = -0.06 dB Peak SAR (extrapolated) = 38.3 W/kg

SAR(1 g) = 8.06 W/kg; SAR(10 g) = 2.26 W/kg Maximum value of SAR (measured) = 17.4 W/kg



Test Laboratory: BTL.Inc Date: 2018-12-21

## System Check\_B5800\_1221

# DUT: Dipole D5GHzV2;SN;1160;

Communication System: UID 0, CW (0); Frequency: 5800 MHz; Duty Cycle: 1:1 Medium parameters used: f = 5800 MHz;  $\sigma$  = 6.178 S/m;  $\epsilon_r$  = 46.487;  $\rho$  = 1000 kg/m³ Ambient Temperature : 23.1 °C; Liquid Temperature : 22.4 °C

## **DASY Configuration:**

Probe: EX3DV4 - SN7396; ConvF(4.5, 4.5, 4.5) @ 5800 MHz; Calibrated: 2018-05-29

• Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 23.0

• Electronics: DAE3 Sn420; Calibrated: 2018-03-22

Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1222

DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (6x6x1):** Interpolated grid: dx=10 mm, dy=10 mm Maximum value of SAR (interpolated) = 20.3 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm Reference Value = 35.28 V/m; Power Drift = -0.03 dB Peak SAR (extrapolated) = 35.9 W/kg SAR(1 g) = 7.5 W/kg; SAR(10 g) = 2.12 W/kg

SAR(1 g) = 7.5 W/kg; SAR(10 g) = 2.12 W/kg Maximum value of SAR (measured) = 16.1 W/kg

