



## **Appendix B. SAR Plots of SAR Measurement**

The SAR plots for highest measured SAR in each exposure configuration, wireless mode and frequency band combination, and measured SAR > 1.5 W/kg are shown as follows.

### P01 LTE 2\_QPSK20M\_Left Side\_0cm\_Ch18900\_Sensor\_off\_1RB\_OS0

**DUT: 150504C40**

Communication System: LTE; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: B16T20N1\_0813 Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.56$  S/m;  $\epsilon_r = 51.434$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C; Liquid Temperature : 22.9 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(7.85, 7.85, 7.85); Calibrated: 2015/03/26;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2015/03/20
- Phantom: ELI Phantom\_1206; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (191x161x1):** Interpolated grid: dx=0.400 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.53 W/kg

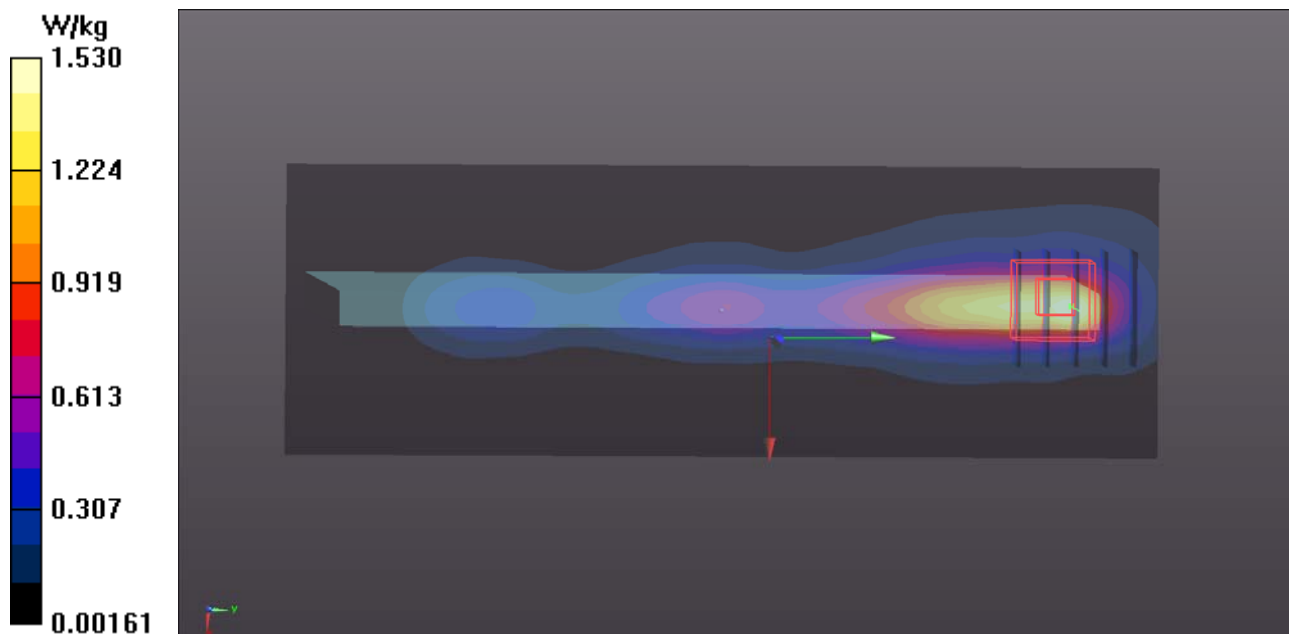
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.91 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 2.35 W/kg

**SAR(1 g) = 1.06 W/kg; SAR(10 g) = 0.505 W/kg**

Maximum value of SAR (measured) = 1.74 W/kg



### P02 LTE 4\_QPSK20M\_Left Side\_0cm\_Ch20300\_Sensor\_off\_1RB\_OS0

**DUT: 150504C40**

Communication System: LTE; Frequency: 1745 MHz; Duty Cycle: 1:1

Medium: B16T20N1\_0812 Medium parameters used:  $f = 1745$  MHz;  $\sigma = 1.44$  S/m;  $\epsilon_r = 51.829$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(8.04, 8.04, 8.04); Calibrated: 2015/03/26;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2015/03/20
- Phantom: ELI Phantom\_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (191x161x1):** Interpolated grid: dx=0.400 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.21 W/kg

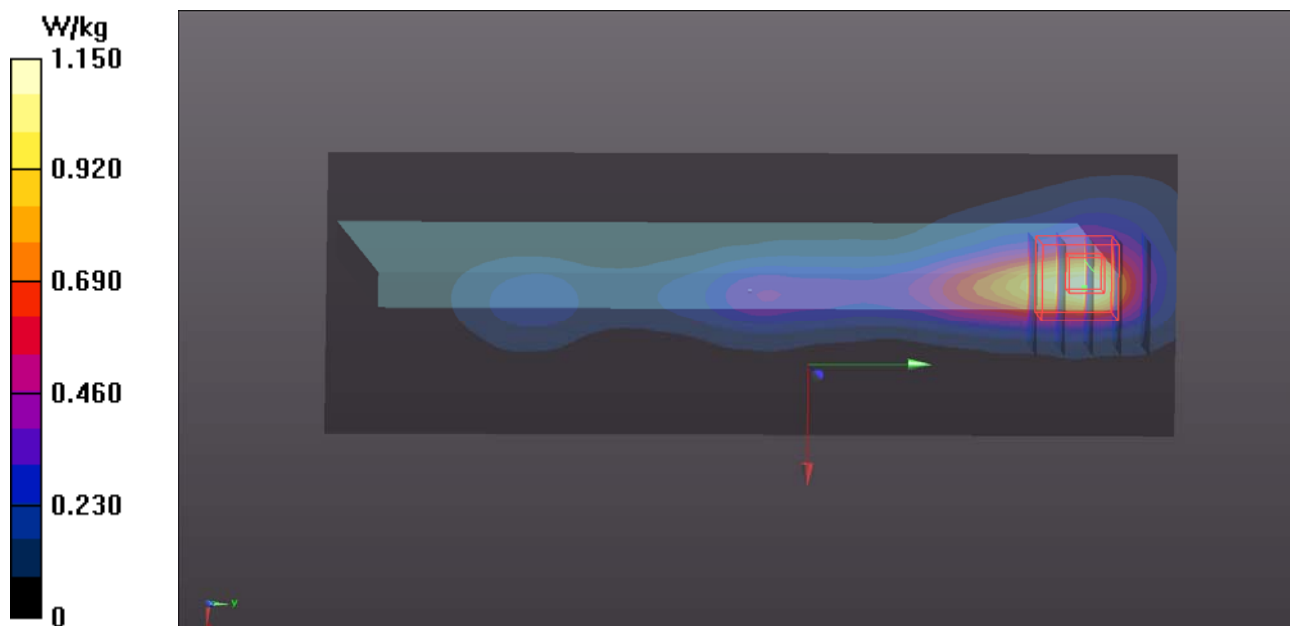
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.42 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 2.45 W/kg

**SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.549 W/kg**

Maximum value of SAR (measured) = 1.86 W/kg





### P04 LTE 12\_QPSK10M\_Rear Face\_1cm\_Ch23130\_Sensor\_off\_1RB\_OS24

**DUT: 150504C40**

Communication System: LTE; Frequency: 711 MHz; Duty Cycle: 1:1

Medium: B06T09N1\_0722 Medium parameters used:  $f = 711 \text{ MHz}$ ;  $\sigma = 0.924 \text{ S/m}$ ;  $\epsilon_r = 55.472$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 23.9 °C ; Liquid Temperature : 23.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(9.29, 9.29, 9.29); Calibrated: 2015/03/31;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2014/08/26
- Phantom: ELI Phantom\_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**- Area Scan (111x161x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.545 W/kg

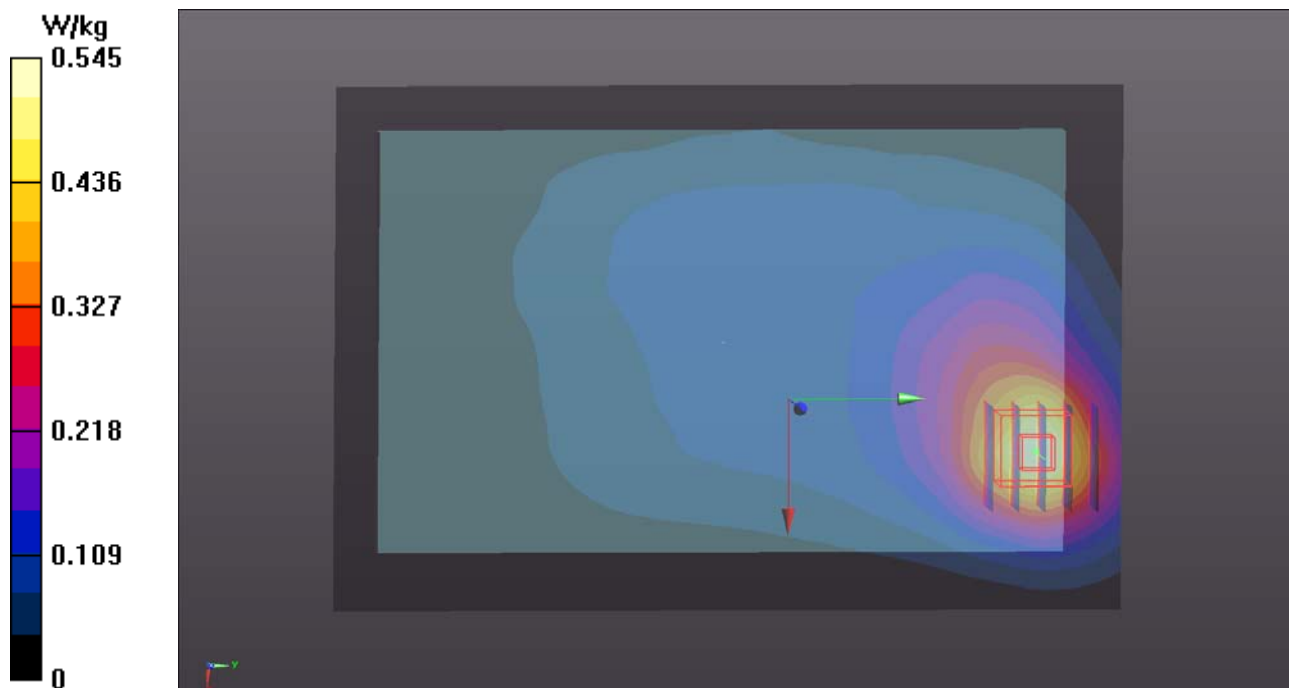
**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 10.38 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.844 W/kg

**SAR(1 g) = 0.524 W/kg; SAR(10 g) = 0.323 W/kg**

Maximum value of SAR (measured) = 0.694 W/kg



### P05 LTE 25\_QPSK20M\_Left Side\_0cm\_Ch26140\_Sensor\_off\_1RB\_OS0

**DUT: 150504C40**

Communication System: LTE; Frequency: 1860 MHz; Duty Cycle: 1:1

Medium: B16T20N1\_0813 Medium parameters used:  $f = 1860$  MHz;  $\sigma = 1.545$  S/m;  $\epsilon_r = 51.469$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C ; Liquid Temperature : 22.9 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(7.85, 7.85, 7.85); Calibrated: 2015/03/26;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2015/03/20
- Phantom: ELI Phantom\_1206; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (191x161x1):** Interpolated grid: dx=0.400 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.82 W/kg

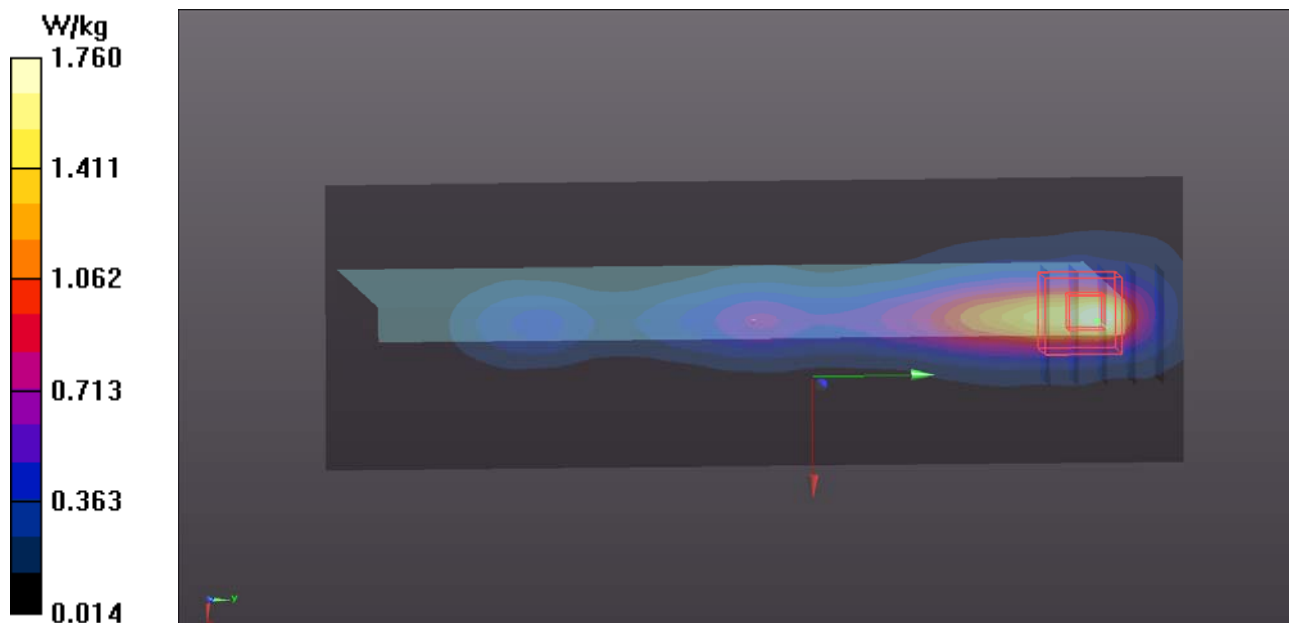
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.35 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 2.50 W/kg

**SAR(1 g) = 1.08 W/kg; SAR(10 g) = 0.532 W/kg**

Maximum value of SAR (measured) = 1.76 W/kg



### P06 LTE 26\_QPSK15M\_Rear Face\_1cm\_Ch26965\_Sensor\_off\_1RB\_OS0

**DUT: 150504C40**

Communication System: LTE; Frequency: 841.5 MHz; Duty Cycle: 1:1

Medium: B07T10N2\_0722 Medium parameters used:  $f = 841.5$  MHz;  $\sigma = 1$  S/m;  $\epsilon_r = 56.02$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(9.27, 9.27, 9.27); Calibrated: 2015/03/31;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2014/08/26
- Phantom: ELI Phantom\_1206; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (111x161x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.32 W/kg

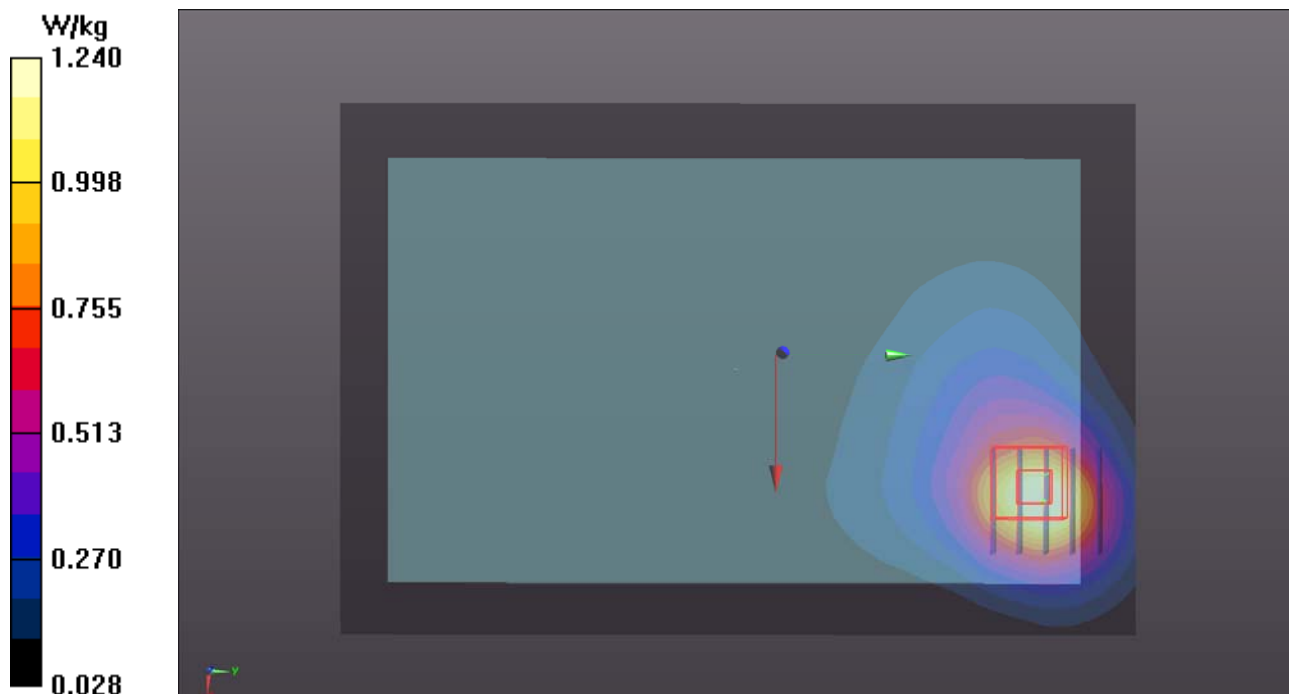
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.809 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.63 W/kg

**SAR(1 g) = 0.977 W/kg; SAR(10 g) = 0.587 W/kg**

Maximum value of SAR (measured) = 1.24 W/kg



### P07 LTE 41\_QPSK20M\_Top Side\_0cm\_Ch40620\_Sensor\_off\_1RB\_OS0

**DUT: 150504C40**

Communication System: LTE TDD; Frequency: 2593 MHz; Duty Cycle: 1:1.58

Medium: B19T27N3\_0824 Medium parameters used:  $f = 2593$  MHz;  $\sigma = 2.191$  S/m;  $\epsilon_r = 50.542$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C ; Liquid Temperature : 22.9 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(6.77, 6.77, 6.77); Calibrated: 2015/03/26;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2015/03/20
- Phantom: ELI Phantom\_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**- Area Scan (211x121x1):** Interpolated grid: dx=0.400 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.17 W/kg

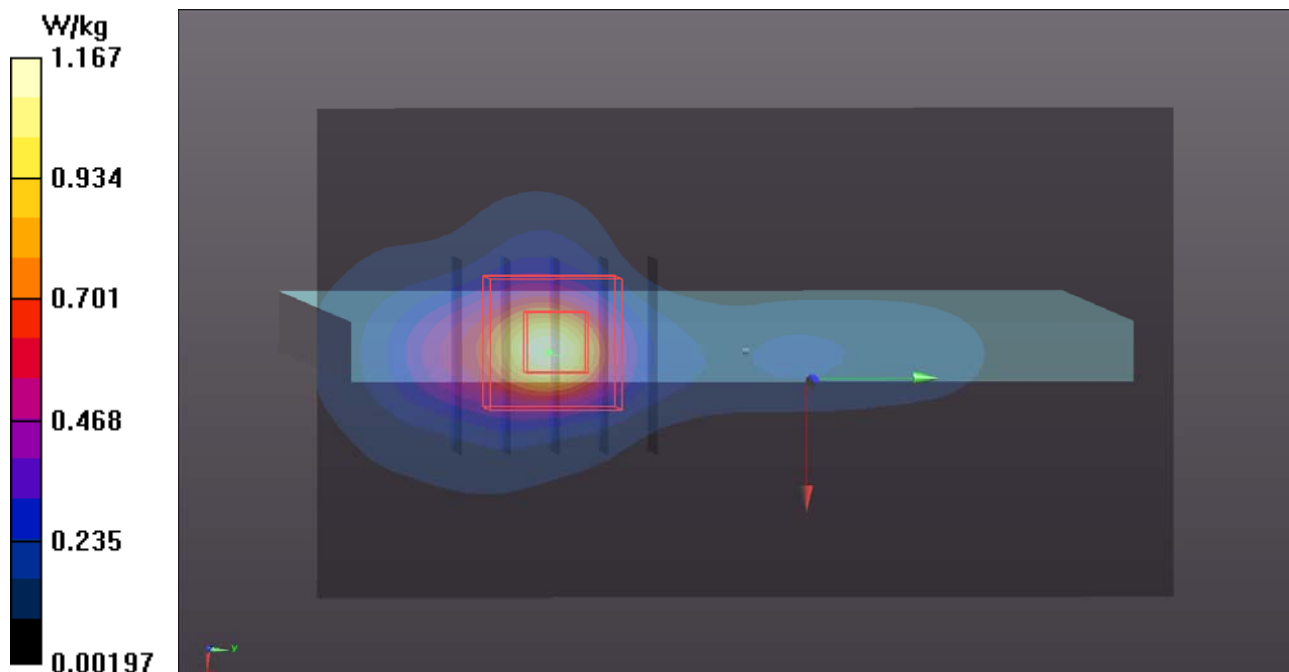
**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.859 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.64 W/kg

**SAR(1 g) = 0.661 W/kg; SAR(10 g) = 0.277 W/kg**

Maximum value of SAR (measured) = 1.18 W/kg





### P08 2.4G WLAN\_802.11b\_Right Side\_0cm\_Ch6\_Sensor off

**DUT: 150504C40**

Communication System: WLAN\_2.4G; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: B19T27N1\_0824 Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.995$  S/m;  $\epsilon_r = 51.482$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C ; Liquid Temperature : 22.9 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(7.12, 7.12, 7.12); Calibrated: 2015/03/26;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2015/03/20
- Phantom: ELI Phantom\_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (91x201x1):** Interpolated grid: dx=0.400 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.89 W/kg

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

Reference Value = 7.353 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 2.79 W/kg

**SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.441 W/kg**

Maximum value of SAR (measured) = 1.91 W/kg

