

**40\_LTE Band 66\_20M\_QPSK\_50RB\_0offset\_Front\_5mm\_Ch132072**

Communication System: UID 0, LTE (0); Frequency: 1720 MHz; Duty Cycle: 1:1

Medium: MSL\_1750 Medium parameters used:  $f = 1720$  MHz;  $\sigma = 1.442$  S/m;  $\epsilon_r = 53.096$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.2 °C ; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3857; ConvF(8.15, 8.15, 8.15); Calibrated: 2018.5.31;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2018.5.28
- Phantom: SAM1; Type: SAM; Serial: TP-1164
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch132072/Area Scan (71x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.48 W/kg

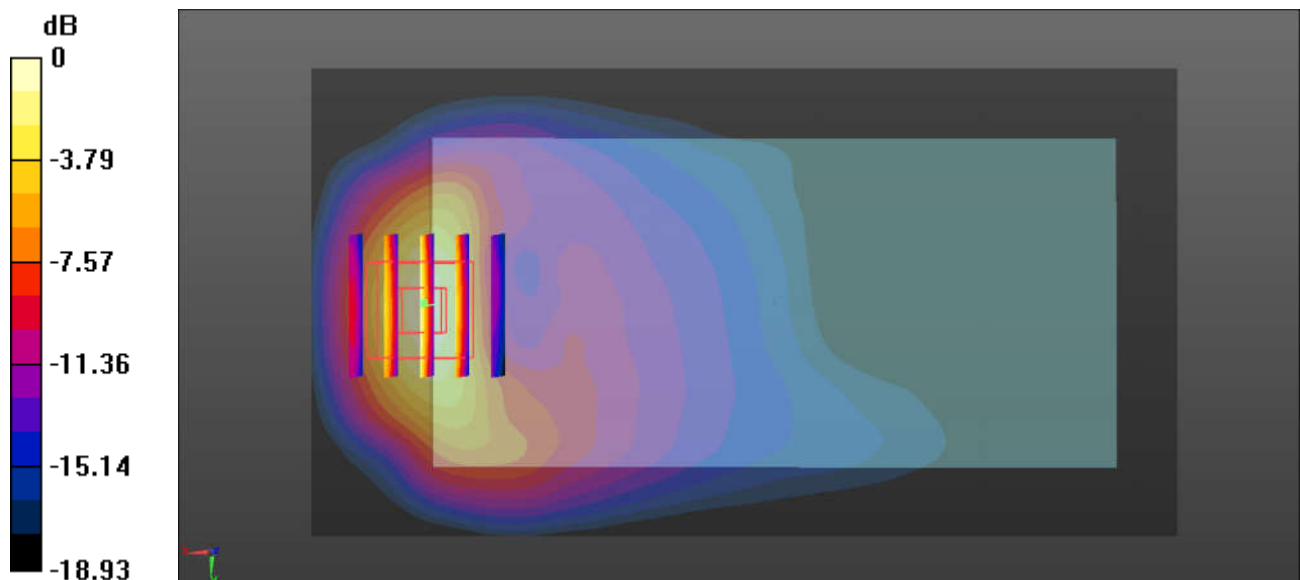
**Ch132072/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 34.14 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.91 W/kg

**SAR(1 g) = 1.11 W/kg; SAR(10 g) = 0.570 W/kg**

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



0 dB = 1.65 W/kg = 2.17 dBW/kg

**41\_LTE Band 2\_20M\_QPSK\_1RB\_0Offset\_Back\_5mm\_Ch18700**

Communication System: UID 0, FDD\_LTE (0); Frequency: 1860 MHz; Duty Cycle: 1:1  
Medium: MSL\_1900 Medium parameters used:  $f = 1860$  MHz;  $\sigma = 1.492$  S/m;  $\epsilon_r = 53.636$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.3 °C ; Liquid Temperature : 22.6 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3857; ConvF(7.82, 7.82, 7.82); Calibrated: 2018.5.31;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2018.5.28
- Phantom: SAM3; Type: SAM; Serial: TP-1542
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch18700/Area Scan (71x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.14 W/kg

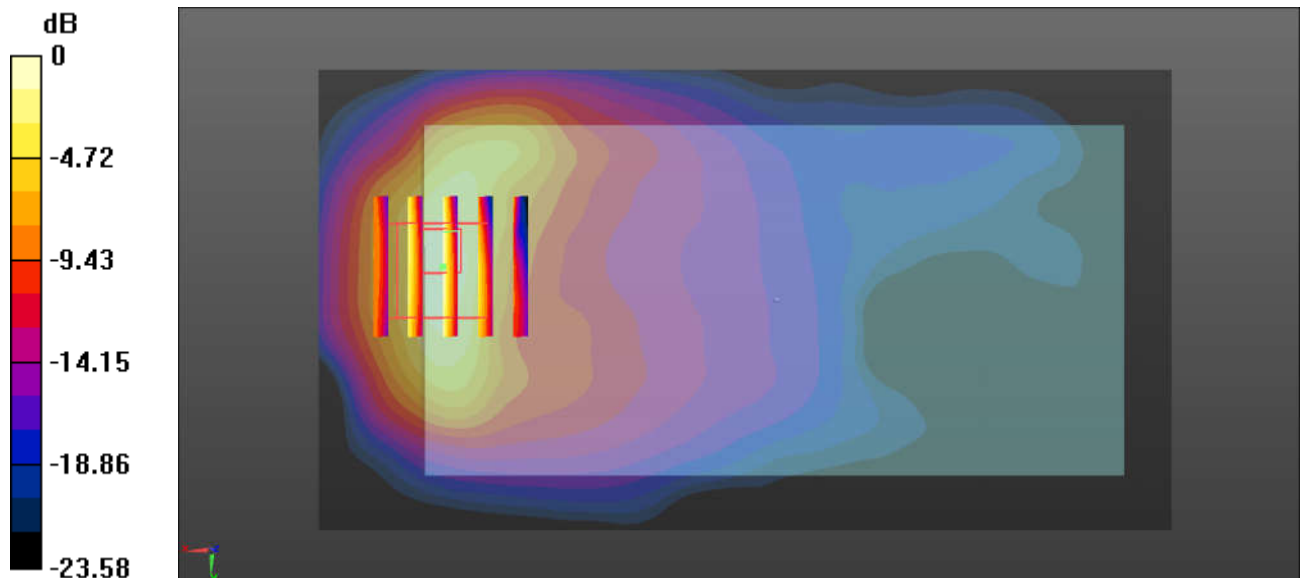
**Ch18700/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.862 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.67 W/kg

**SAR(1 g) = 0.904 W/kg; SAR(10 g) = 0.463 W/kg**

Maximum value of SAR (measured) = 1.28 W/kg



0 dB = 1.28 W/kg = 1.07 dBW/kg

**42\_LTE Band 7\_20M\_QPSK\_50RB\_0Offset\_Back\_5mm\_Ch20850**

Communication System: UID 0, FDD\_LTE (0); Frequency: 2510 MHz; Duty Cycle: 1:1  
Medium: MSL\_2600 Medium parameters used:  $f = 2510$  MHz;  $\sigma = 2.061$  S/m;  $\epsilon_r = 53.228$ ;

$\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 23.5 °C ; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3954; ConvF(6.92, 6.92, 6.92); Calibrated: 2018.1.31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2018.1.3
- Phantom: SAM3; Type: SAM; Serial: TP-1839
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch20850/Area Scan (91x151x1):** Interpolated grid:  $dx=1.200$  mm,  $dy=1.200$  mm

Maximum value of SAR (interpolated) = 0.877 W/kg

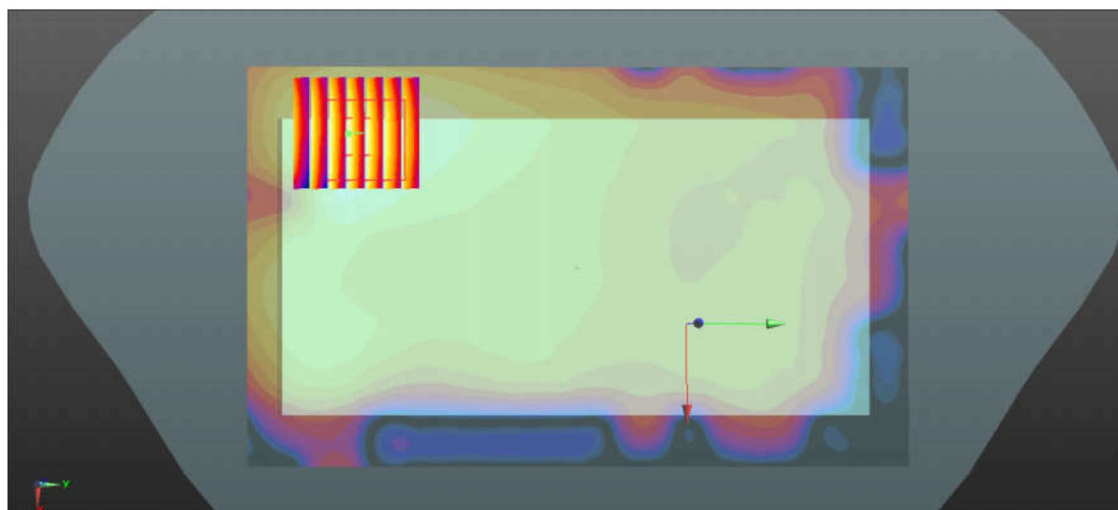
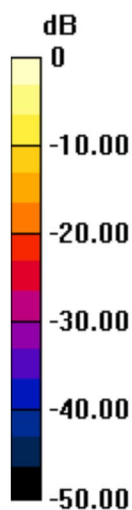
**Ch20850/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 4.977 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.03 W/kg

**SAR(1 g) = 0.521 W/kg; SAR(10 g) = 0.255 W/kg**

Maximum value of SAR (measured) = 0.775 W/kg



0 dB = 0.877 W/kg = -0.57 dBW/kg

**43\_WLAN2.4GHz\_802.11b 1Mbps\_Back\_5mm\_Ch11**

Communication System: UID 0, WIFI (0); Frequency: 2462 MHz; Duty Cycle: 1:1  
Medium: MSL\_2450 Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.993$  S/m;  $\epsilon_r = 53.398$ ;  
 $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.2 °C ; Liquid Temperature : 22.6 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3954; ConvF(7.53, 7.53, 7.53); Calibrated: 2018.1.31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2018.1.3
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch11/Area Scan (91x151x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.674 W/kg

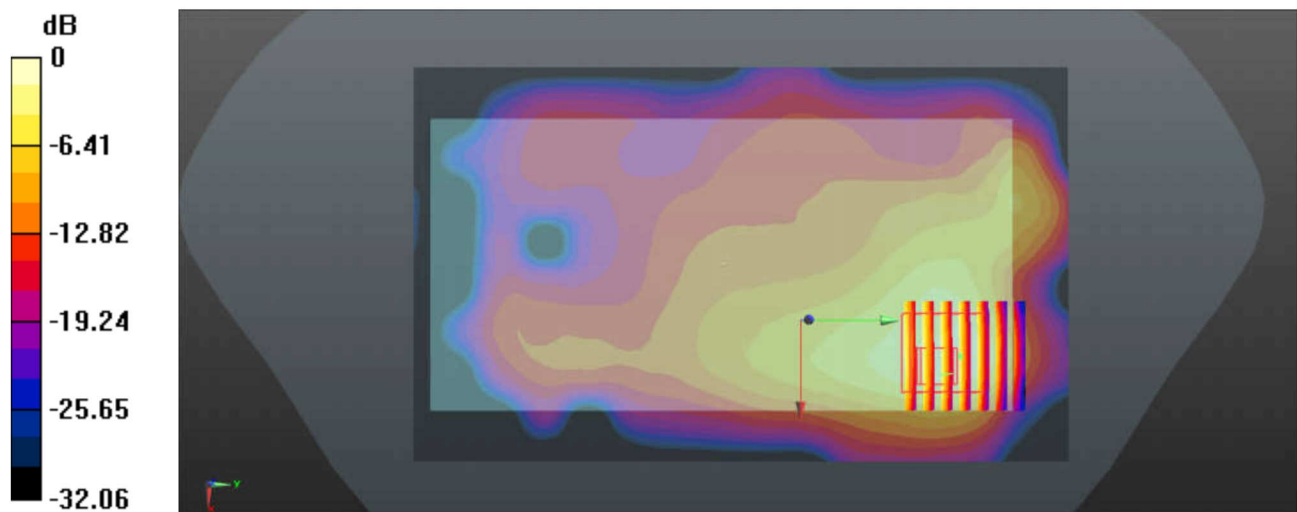
**Ch11/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.973 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.729 W/kg

**SAR(1 g) = 0.350 W/kg; SAR(10 g) = 0.181 W/kg**

Maximum value of SAR (measured) = 0.523 W/kg



0 dB = 0.674 W/kg = -1.71 dBW/kg

**44\_WLAN5.3GHz\_802.11a 6Mbps\_Back\_5mm\_Ch64**

Communication System: UID 0, WIFI (0); Frequency: 5320 MHz; Duty Cycle: 1:1.018  
Medium: MSL\_5000 Medium parameters used:  $f = 5320$  MHz;  $\sigma = 5.59$  S/m;  $\epsilon_r = 47.835$ ;  
 $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.7 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3954; ConvF(4.62, 4.62, 4.62); Calibrated: 2018.1.31;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2018.1.3
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch64/Area Scan (101x171x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm

Maximum value of SAR (interpolated) = 2.09 W/kg

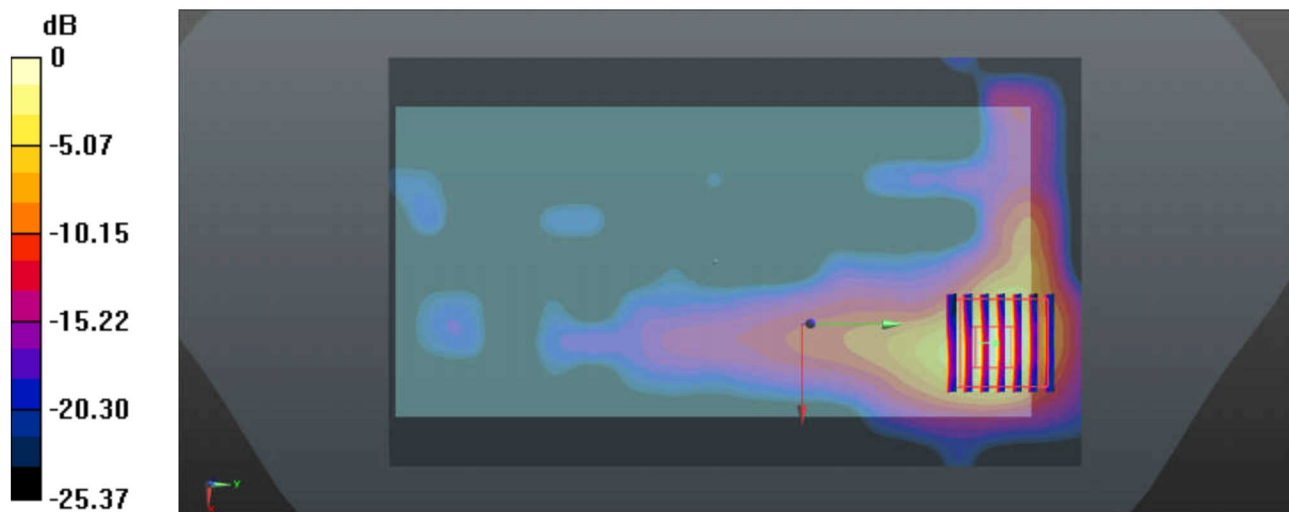
**Ch64/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm

Reference Value = 1.810 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 3.86 W/kg

**SAR(1 g) = 0.898 W/kg; SAR(10 g) = 0.262 W/kg**

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



0 dB = 2.09 W/kg = 3.20 dBW/kg

**45\_WLAN5.5GHz\_802.11a 6Mbps\_Back\_5mm\_Ch100**

Communication System: UID 0, WIFI (0); Frequency: 5500 MHz; Duty Cycle: 1:1.018  
Medium: MSL\_5000 Medium parameters used:  $f = 5500$  MHz;  $\sigma = 5.823$  S/m;  $\epsilon_r = 47.531$ ;  
 $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature : 23.3 °C ; Liquid Temperature : 22.8 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3954; ConvF(4.05, 4.05, 4.05); Calibrated: 2018.1.31;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2018.1.3
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch100/Area Scan (101x171x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm

Maximum value of SAR (interpolated) = 2.38 W/kg

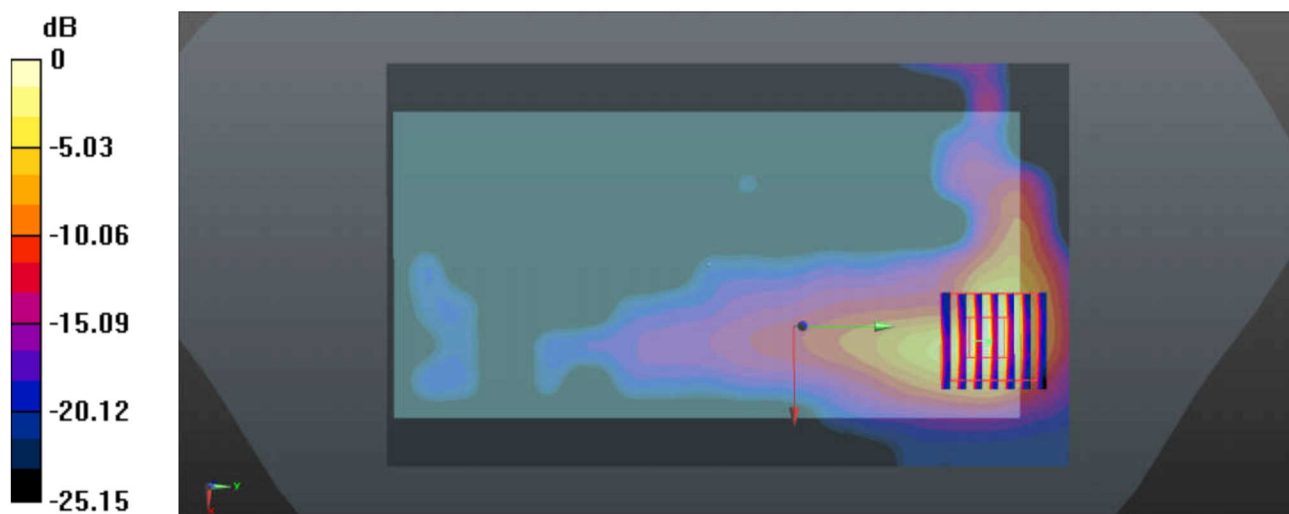
**Ch100/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm

Reference Value = 2.064 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 4.48 W/kg

**SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.298 W/kg**

Maximum value of SAR (measured) = 2.59 W/kg



0 dB = 2.38 W/kg = 3.77 dBW/kg

**46\_WLAN5.8GHz\_802.11a 6Mbps\_Back\_5mm\_Ch157**

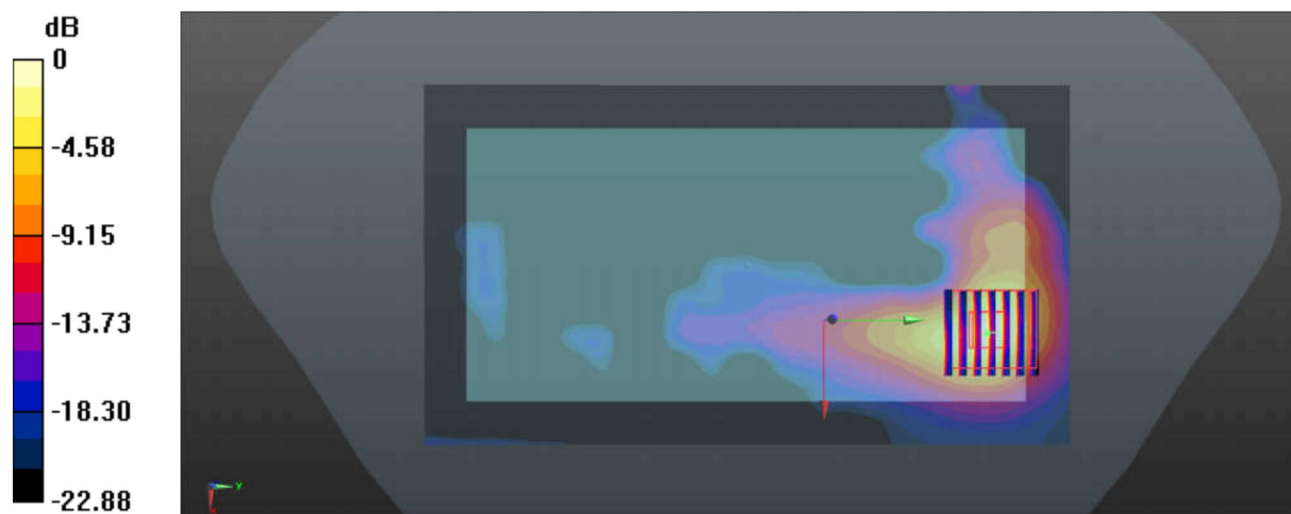
Communication System: UID 0, WIFI (0); Frequency: 5785 MHz; Duty Cycle: 1:1.018  
Medium: MSL\_5000 Medium parameters used:  $f = 5785$  MHz;  $\sigma = 6.206$  S/m;  $\epsilon_r = 47.073$ ;  
 $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.9 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3954; ConvF(4.18, 4.18, 4.18); Calibrated: 2018.1.31;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2018.1.3
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch157/Area Scan (101x181x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm  
Maximum value of SAR (interpolated) = 1.52 W/kg

**Ch157/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm  
Reference Value = 1.763 V/m; Power Drift = -0.02 dB  
Peak SAR (extrapolated) = 2.94 W/kg  
**SAR(1 g) = 0.631 W/kg; SAR(10 g) = 0.183 W/kg**  
Maximum value of SAR (measured) = 1.67 W/kg



0 dB = 1.52 W/kg = 1.82 dBW/kg

**47\_Bluetooth\_1Mbps\_Back\_5mm\_Ch0**

Communication System: UID 0, Bluetooth (0); Frequency: 2402 MHz; Duty Cycle: 1:1.298

Medium: MSL\_2450 Medium parameters used:  $f = 2402$  MHz;  $\sigma = 1.911$  S/m;  $\epsilon_r = 53.608$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.2 °C ; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3954; ConvF(7.53, 7.53, 7.53); Calibrated: 2018.1.31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2018.1.3
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch0/Area Scan (151x91x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.595 W/kg

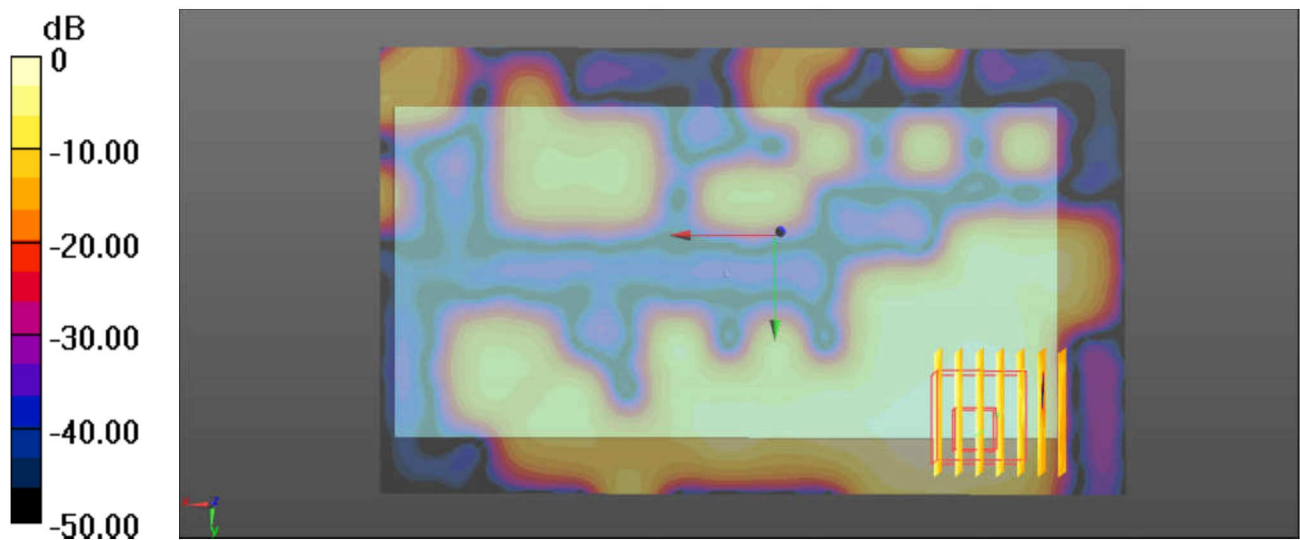
**Ch0/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.730 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.592 W/kg

**SAR(1 g) = 0.286 W/kg; SAR(10 g) = 0.137 W/kg**

Maximum value of SAR (measured) = 0.435 W/kg



**48\_GSM850\_GPRS 3 Tx slots\_Back\_0mm\_Ch251**

Communication System: UID 0, GPRS/EDGE (3 Tx slots) (0); Frequency: 848.8 MHz; Duty Cycle: 1:2.77  
 Medium: MSL\_835 Medium parameters used:  $f = 848.8$  MHz;  $\sigma = 0.986$  S/m;  $\epsilon_r = 55.026$ ;

$\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3954; ConvF(10.02, 10.02, 10.02); Calibrated: 2018.1.31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2018.1.3
- Phantom: SAM3; Type: SAM; Serial: TP-1839
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch251/Area Scan (61x121x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 2.83 W/kg

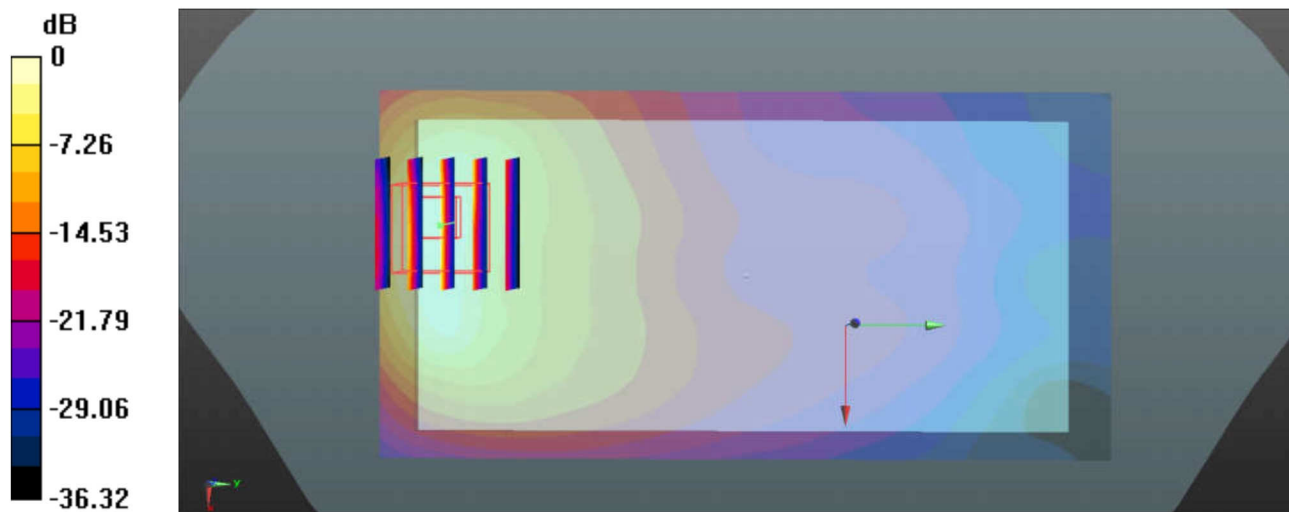
**Ch251/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 5.541 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 3.63 W/kg

**SAR(1 g) = 1.48 W/kg; SAR(10 g) = 0.711 W/kg**

Maximum value of SAR (measured) = 2.64 W/kg



0 dB = 2.83 W/kg = 4.52 dBW/kg

**49\_GSM1900\_GPRS 3 Tx slots\_Back\_0mm\_Ch512**

Communication System: UID 0, GPRS/EDGE (3 Tx slots) (0); Frequency: 1850.2 MHz; Duty Cycle: 1:2.77  
Medium: MSL\_1900 Medium parameters used:  $f = 1850.2$  MHz;  $\sigma = 1.445$  S/m;  $\epsilon_r = 52.959$ ;

$\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3954; ConvF(8.03, 8.03, 8.03); Calibrated: 2018.1.31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2018.1.3
- Phantom: SAM3; Type: SAM; Serial: TP-1839
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch512/Area Scan (61x131x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 6.52 W/kg

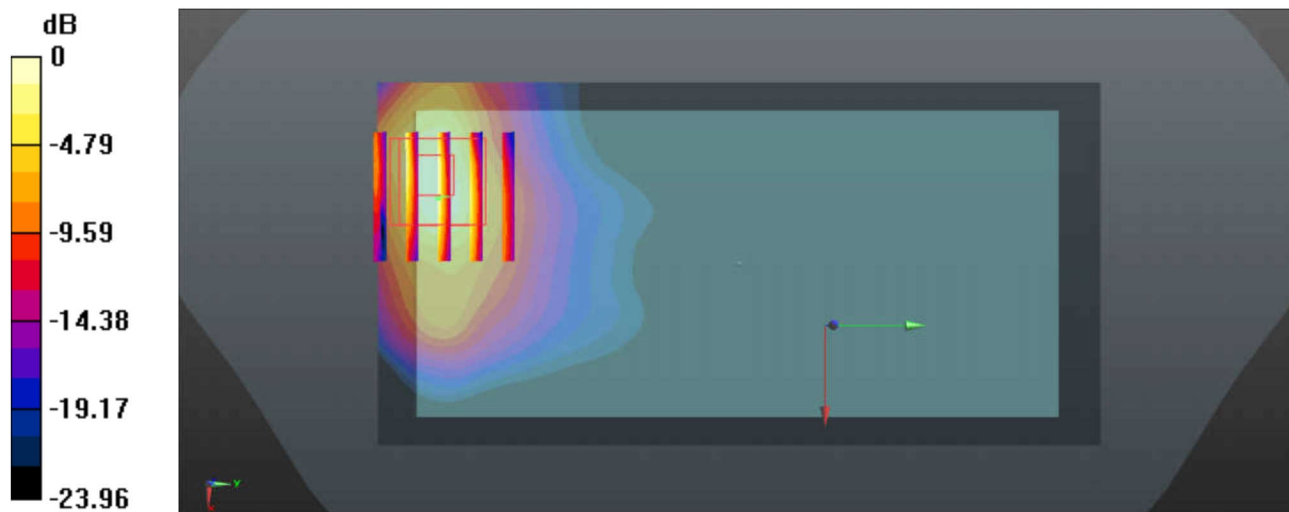
**Ch512/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 3.071 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 10.2 W/kg

**SAR(1 g) = 5.01 W/kg; SAR(10 g) = 2.2 W/kg**

Maximum value of SAR (measured) = 6.99 W/kg



0 dB = 6.52 W/kg = 8.14 dBW/kg

**50\_WCDMA Band V\_RMC12.2Kbps\_Back\_0mm\_Ch4182**

Communication System: UID 0, UMTS (0); Frequency: 836.4 MHz; Duty Cycle: 1:1  
Medium: MSL\_835 Medium parameters used :  $f = 836.4$  MHz;  $\sigma = 0.974$  S/m;  $\epsilon_r = 55.149$ ;  
 $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature :  $23.5^\circ\text{C}$ ; Liquid Temperature :  $22.8^\circ\text{C}$

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3954; ConvF(10.02, 10.02, 10.02); Calibrated: 2018.1.31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2018.1.3
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch4182/Area Scan (61x121x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) =  $2.27 \text{ W/kg}$

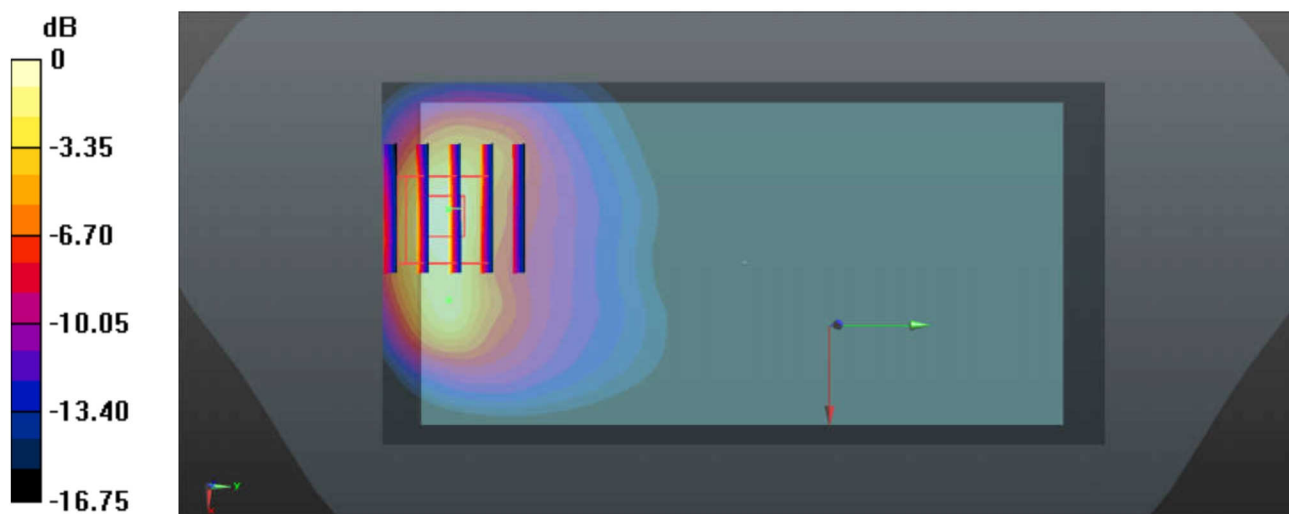
**Ch4182/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $5.074 \text{ V/m}$ ; Power Drift =  $0.05 \text{ dB}$

Peak SAR (extrapolated) =  $3.17 \text{ W/kg}$

**SAR(1 g) =  $1.19 \text{ W/kg}$ ; SAR(10 g) =  $0.566 \text{ W/kg}$**

Maximum value of SAR (measured) =  $2.15 \text{ W/kg}$



$0 \text{ dB} = 2.27 \text{ W/kg} = 3.56 \text{ dBW/kg}$

**51\_WCDMA Band II\_RMC12.2Kbps\_Back\_0mm\_Ch9262**

Communication System: UID 0, UMTS (0); Frequency: 1852.4 MHz; Duty Cycle: 1:1  
Medium: MSL\_1900 Medium parameters used:  $f = 1852.4$  MHz;  $\sigma = 1.448$  S/m;  $\epsilon_r = 52.95$ ;  
 $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.8 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3954; ConvF(8.03, 8.03, 8.03); Calibrated: 2018.1.31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2018.1.3
- Phantom: SAM3; Type: SAM; Serial: TP-1839
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch9262/Area Scan (61x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 6.96 W/kg

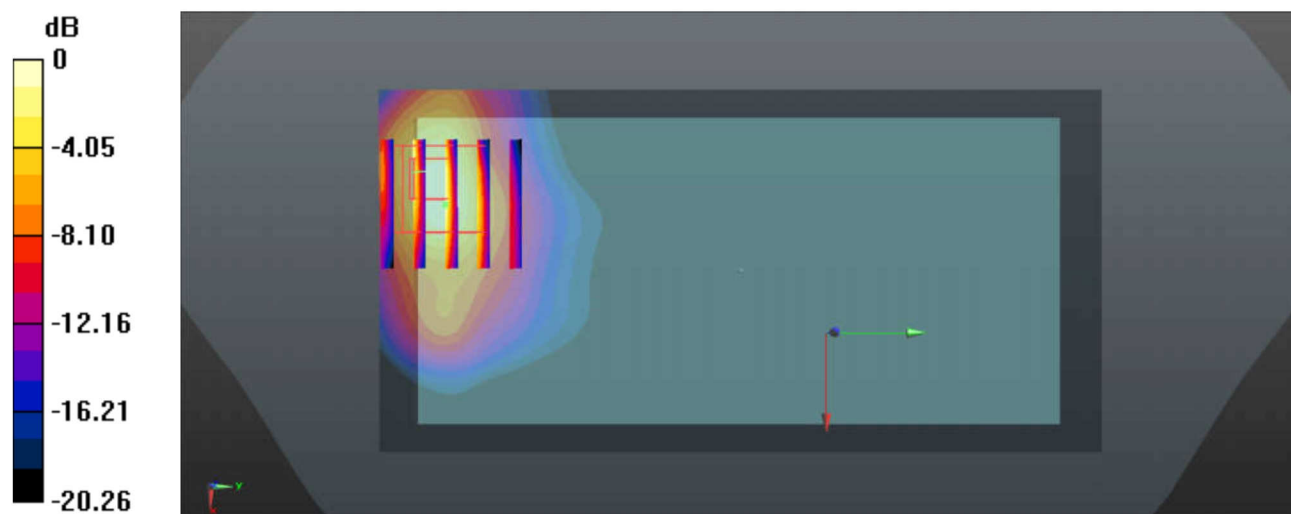
**Ch9262/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.925 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 13.1 W/kg

**SAR(1 g) = 5.99 W/kg; SAR(10 g) = 2.47 W/kg**

Maximum value of SAR (measured) = 8.13 W/kg



0 dB = 6.96 W/kg = 8.43 dBW/kg

**52\_CDMA2000 BC0\_RTAP153.6bps\_Back\_0mm\_Ch777**

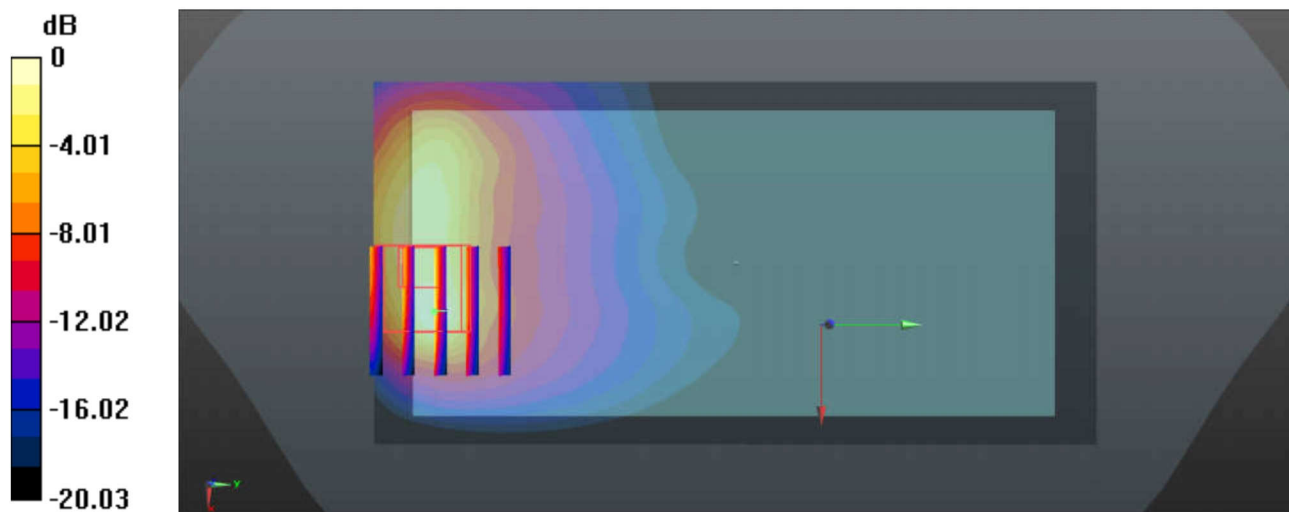
Communication System: UID 0, CDMA2000 (0); Frequency: 848.31 MHz; Duty Cycle: 1:1  
Medium: MSL\_835 Medium parameters used :  $f = 848.31$  MHz;  $\sigma = 0.985$  S/m;  $\epsilon_r = 55.029$ ;  
 $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.5 °C; Liquid Temperature : 22.8 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3954; ConvF(10.02, 10.02, 10.02); Calibrated: 2018.1.31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2018.1.3
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch777/Area Scan (61x121x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
Maximum value of SAR (interpolated) = 11.6 W/kg

**Ch777/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm  
Reference Value = 10.83 V/m; Power Drift = 0.05 dB  
Peak SAR (extrapolated) = 15.1 W/kg  
**SAR(1 g) = 5.5 W/kg; SAR(10 g) = 2.65 W/kg**  
Maximum value of SAR (measured) = 9.67 W/kg



0 dB = 11.6 W/kg = 10.64 dBW/kg

**53\_CDMA2000 BC1\_RTAP153.6bps\_Back\_0mm\_Ch1175**

Communication System: UID 0, CDMA2000 (0); Frequency: 1908.75 MHz; Duty Cycle: 1:1  
Medium: MSL\_1900 Medium parameters used:  $f = 1908.75$  MHz;  $\sigma = 1.524$  S/m;  $\epsilon_r = 52.799$ ;

$\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3954; ConvF(8.03, 8.03, 8.03); Calibrated: 2018.1.31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2018.1.3
- Phantom: SAM3; Type: SAM; Serial: TP-1839
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch1175/Area Scan (61x121x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 6.78 W/kg

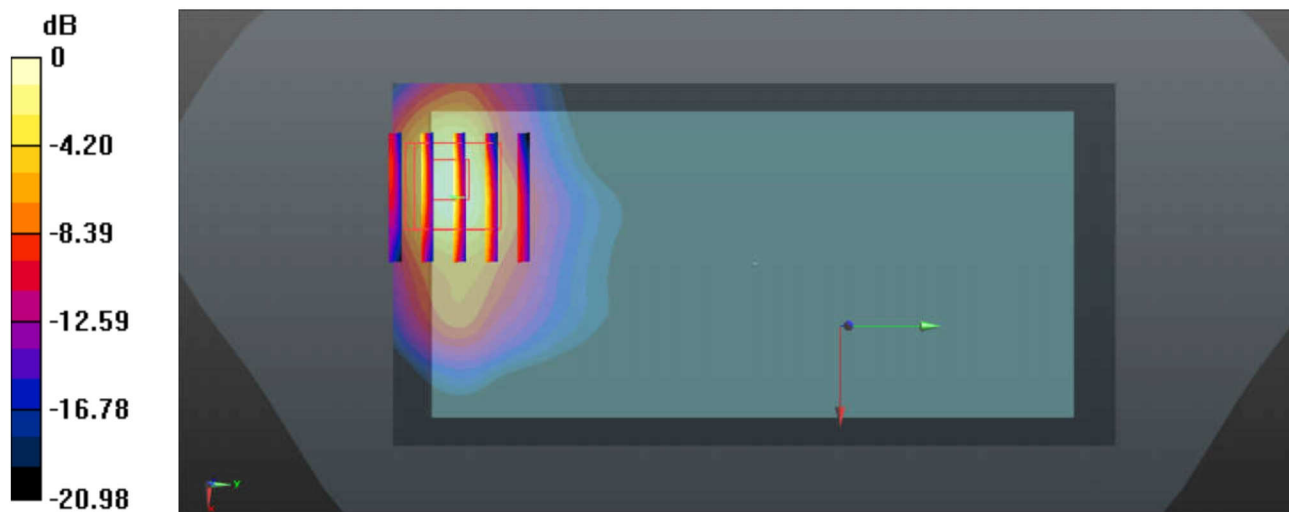
**Ch1175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 2.663 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 9.98 W/kg

**SAR(1 g) = 4.92 W/kg; SAR(10 g) = 2.12 W/kg**

Maximum value of SAR (measured) = 7.55 W/kg



0 dB = 6.78 W/kg = 8.31 dBW/kg