

## **SAR Plots**

- Verification Plots
- SAR Test Plots

## DT&C Co., Ltd.

**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d159**

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.893 \text{ S/m}$ ;  $\epsilon_r = 41.508$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: ES3DV3 - SN3327; ConvF(6.35, 6.35, 6.35); Calibrated: 8/28/2018; Electronics: DAE3 Sn520  
Sensor-Surface: 3mm (Mechanical Surface Detection)  
Phantom: SAM-twin middle\_2013\_09\_24; Type: QD000P40CD; Serial: 1782  
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-04-01; Ambient Temp: 21.4; Tissue Temp: 21.2

### **835 MHz System Head Verification (250 mW)**

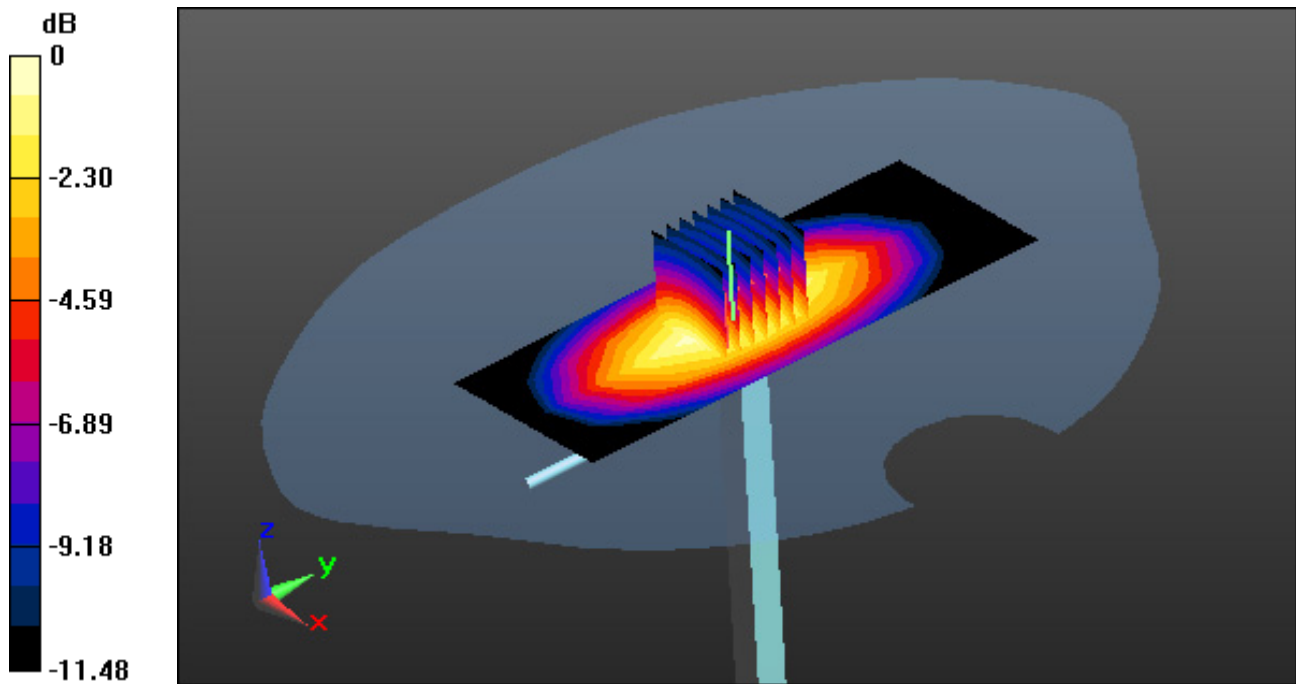
**Area Scan (5x12x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Power Drift = -0.06 dB

Peak SAR (extrapolated) = 3.67 W/kg

SAR(1 g) = 2.38 W/kg; SAR(10 g) = 1.51 W/kg



0 dB = 2.59 W/kg

## DT&C Co., Ltd.

**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d159**

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.99$  S/m;  $\epsilon_r = 54.668$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: ES3DV3 - SN3327; ConvF(6.24, 6.24, 6.24); Calibrated: 8/28/2018; Electronics: DAE3 Sn520  
Sensor-Surface: 3mm (Mechanical Surface Detection)  
Phantom: SAM-twin right\_2013\_09\_24; Type: QD000P40CD; Serial: TP:1783  
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-04-01; Ambient Temp: 21.4; Tissue Temp: 21.6

### **835 MHz System Body Verification (250 mW)**

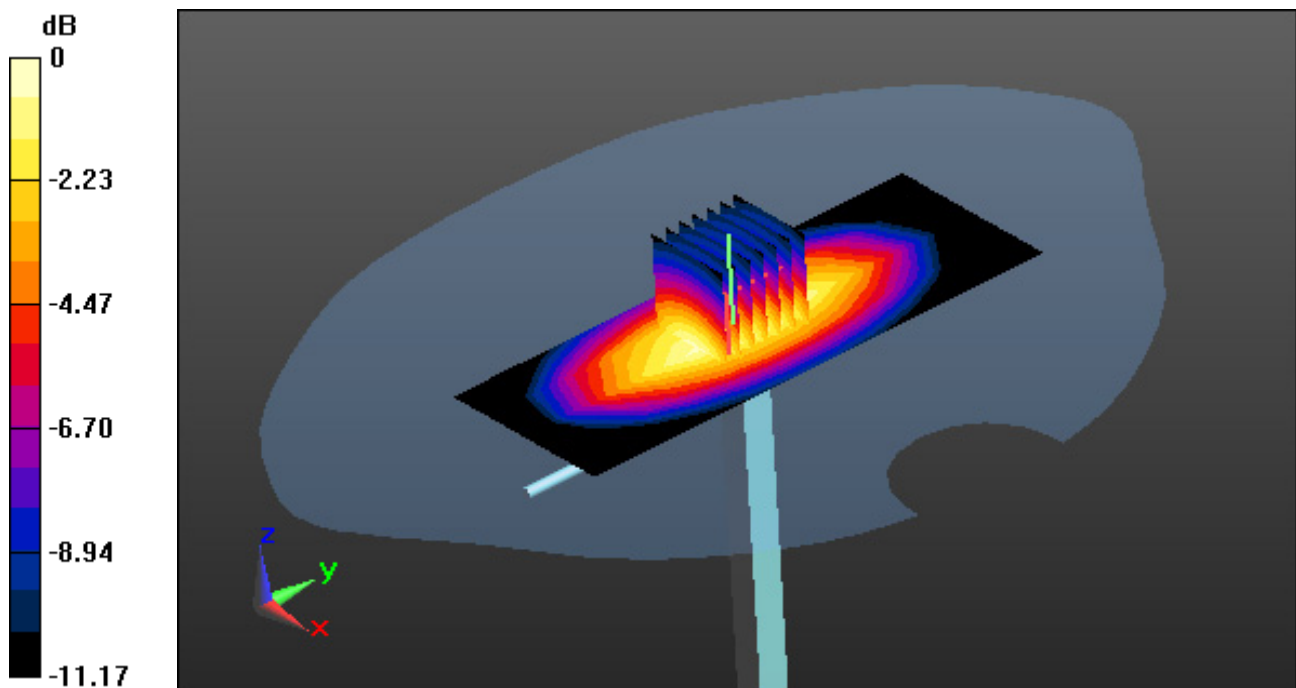
**Area Scan (5x12x1):** Measurement grid: dx=15mm, dy=15mm

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

Power Drift = 0.07 dB

Peak SAR (extrapolated) = 3.77 W/kg

SAR(1 g) = 2.44 W/kg; SAR(10 g) = 1.63 W/kg



0 dB = 2.68 W/kg

## DT&C Co., Ltd.

**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d159**

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.892 \text{ S/m}$ ;  $\epsilon_r = 41.525$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: ES3DV3 - SN3327; ConvF(6.35, 6.35, 6.35); Calibrated: 8/28/2018; Electronics: DAE3 Sn520  
Sensor-Surface: 3mm (Mechanical Surface Detection)  
Phantom: SAM-twin middle\_2013\_09\_24; Type: QD000P40CD; Serial: 1782  
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-04-02; Ambient Temp: 21.2; Tissue Temp: 21.5

### **835 MHz System Head Verification (250 mW)**

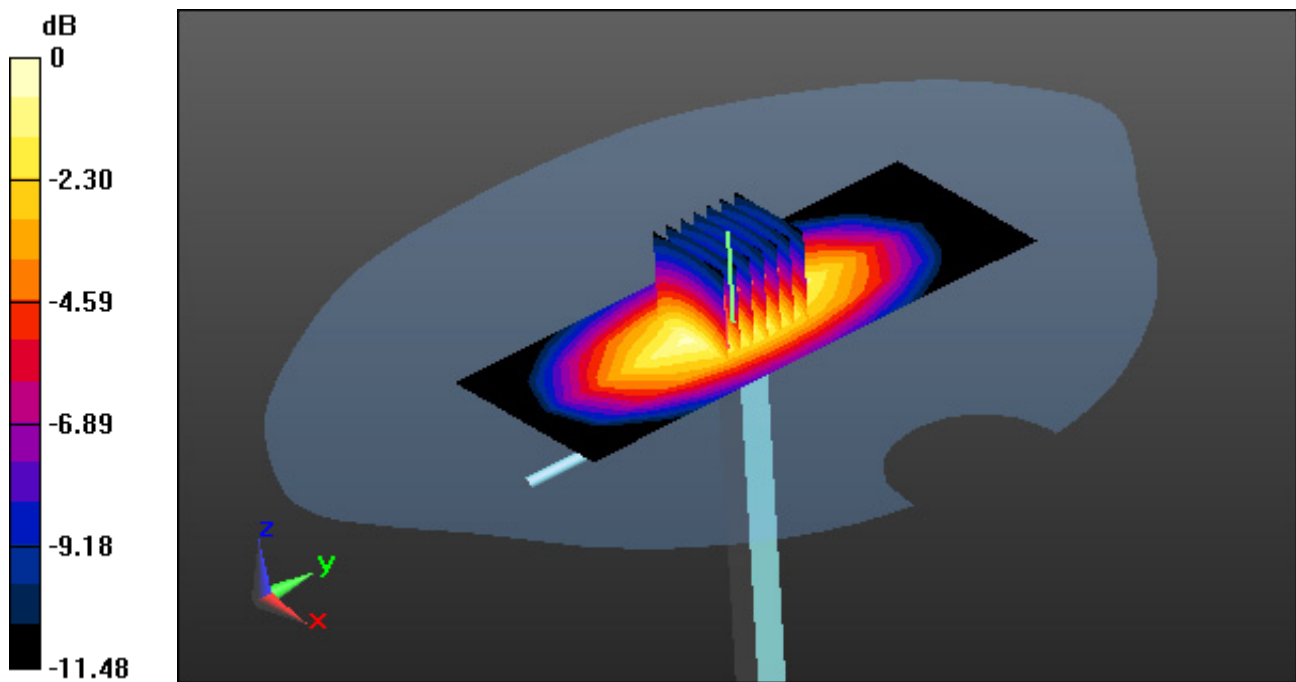
**Area Scan (5x12x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.51 W/kg

SAR(1 g) = 2.32 W/kg; SAR(10 g) = 1.49 W/kg



0 dB = 2.52 W/kg

## DT&C Co., Ltd.

**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d159**

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.989 \text{ S/m}$ ;  $\epsilon_r = 54.586$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: ES3DV3 - SN3327; ConvF(6.24, 6.24, 6.24); Calibrated: 8/28/2018; Electronics: DAE3 Sn520  
Sensor-Surface: 3mm (Mechanical Surface Detection)  
Phantom: SAM-twin right\_2013\_09\_24; Type: QD000P40CD; Serial: TP:1783  
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-04-02; Ambient Temp: 21.2; Tissue Temp: 21.6

### **835 MHz System Body Verification (250 mW)**

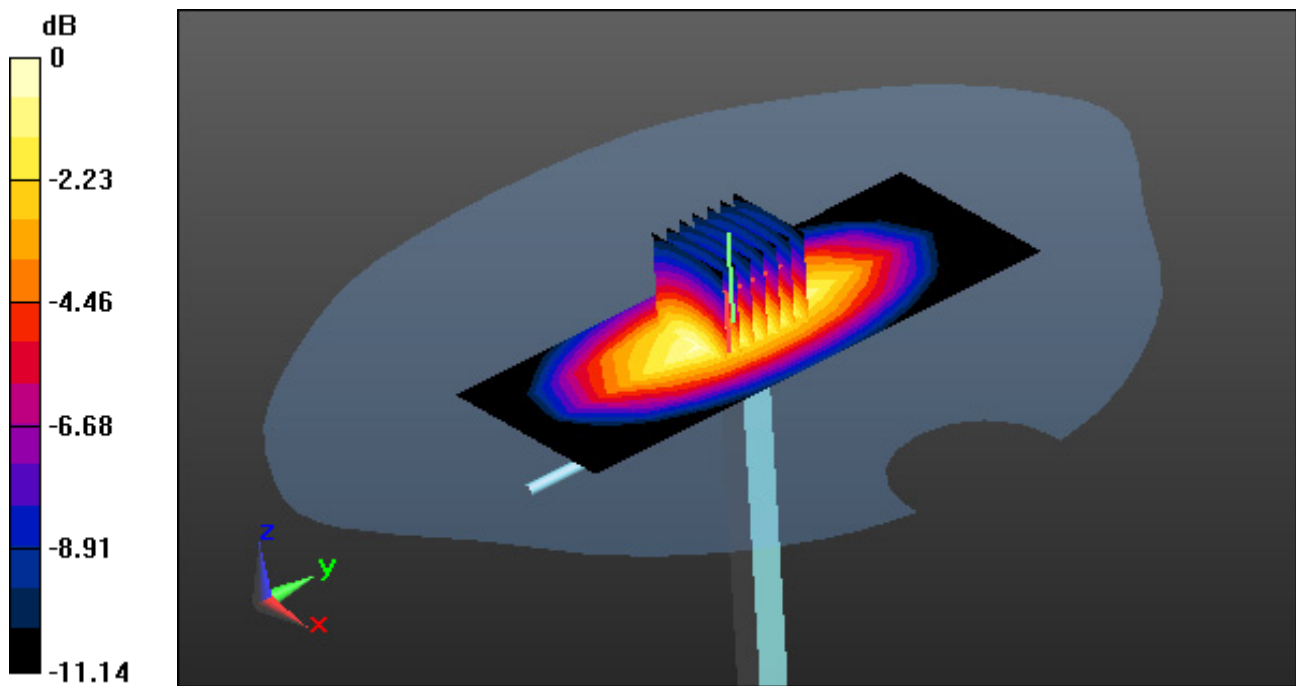
**Area Scan (5x12x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Power Drift = -0.01 dB

Peak SAR (extrapolated) = 3.62 W/kg

SAR(1 g) = 2.46 W/kg; SAR(10 g) = 1.64 W/kg



0 dB = 2.70 W/kg

## DT&C Co., Ltd.

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d176**

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.4$  S/m;  $\epsilon_r = 39.886$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: ES3DV3 - SN3327; ConvF(5.27, 5.27, 5.27); Calibrated: 8/28/2018; Electronics: DAE3 Sn520  
Sensor-Surface: 3mm (Mechanical Surface Detection)  
Phantom: SAM-twin middle\_2013\_09\_24; Type: QD000P40CD; Serial: 1782  
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-04-03; Ambient Temp: 21.6; Tissue Temp: 21.3

### **1900 MHz System Head Verification (100 mW)**

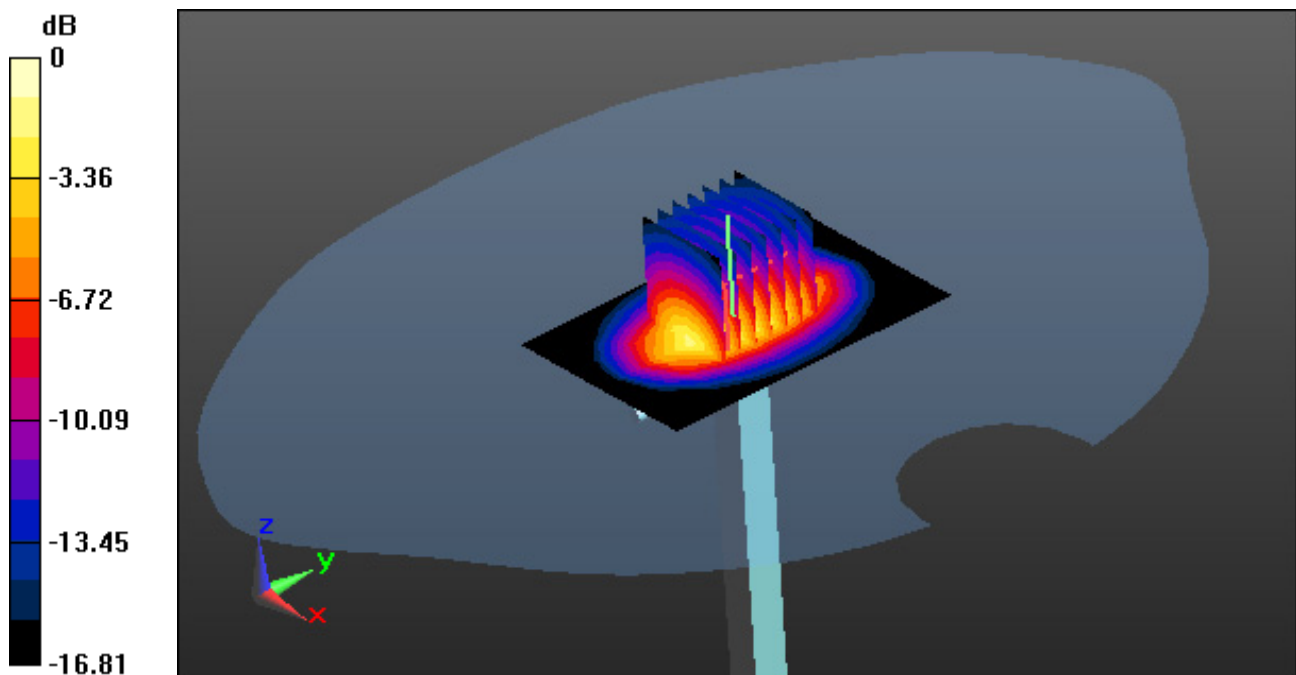
**Area Scan (7x10x1):** Measurement grid: dx=10mm, dy=10mm

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

Power Drift = 0.04 dB

Peak SAR (extrapolated) = 5.32 W/kg

SAR(1 g) = 3.97 W/kg; SAR(10 g) = 2.11 W/kg



0 dB = 4.02 W/kg

## DT&C Co., Ltd.

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d176**

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.528$  S/m;  $\epsilon_r = 55.093$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: ES3DV3 - SN3327; ConvF(4.91, 4.91, 4.91); Calibrated: 8/28/2018; Electronics: DAE3 Sn520  
Sensor-Surface: 3mm (Mechanical Surface Detection)  
Phantom: SAM-twin right\_2013\_09\_24; Type: QD000P40CD; Serial: TP:1783  
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-04-03; Ambient Temp: 21.6; Tissue Temp: 21.5

### **1900 MHz System Body Verification (100 mW)**

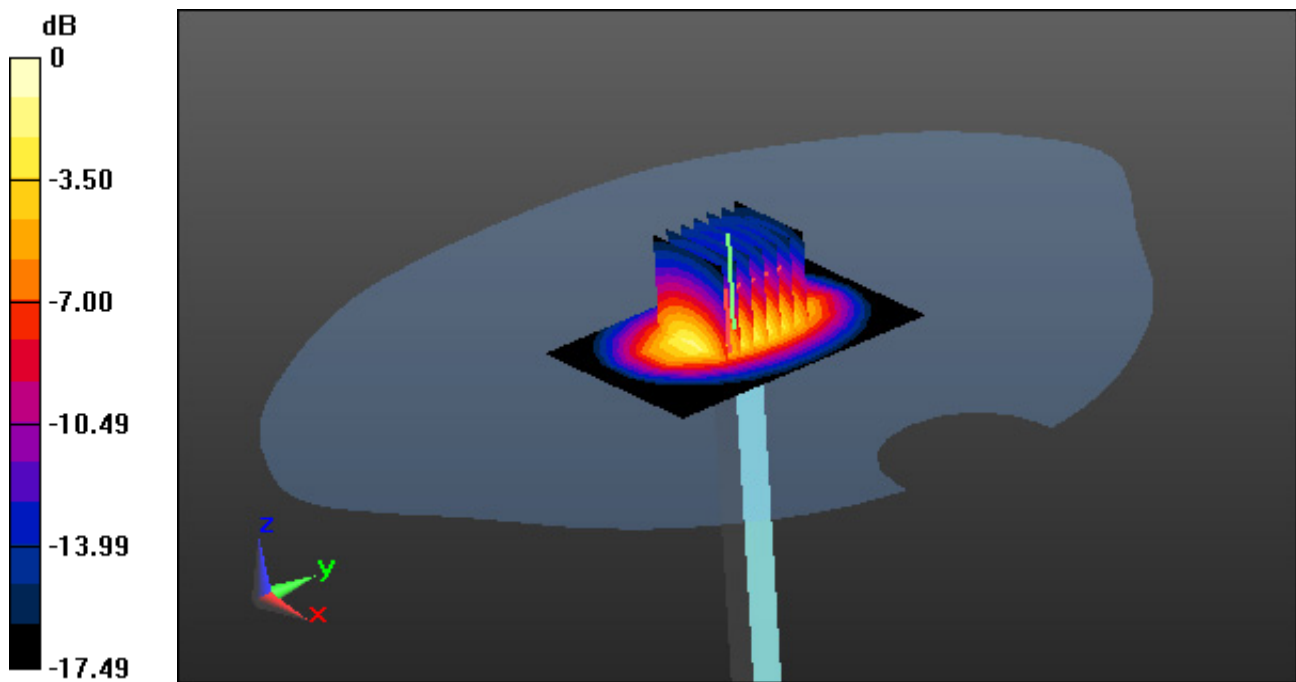
**Area Scan (7x10x1):** Measurement grid: dx=10mm, dy=10mm

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

Power Drift = 0.14 dB

Peak SAR (extrapolated) = 5.11 W/kg

**SAR(1 g) = 3.86 W/kg; SAR(10 g) = 2.06 W/kg**



0 dB = 3.91 W/kg

## DT&C Co., Ltd.

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d176**

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.401$  S/m;  $\epsilon_r = 39.452$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: ES3DV3 - SN3327; ConvF(5.27, 5.27, 5.27); Calibrated: 8/28/2018; Electronics: DAE3 Sn520  
Sensor-Surface: 3mm (Mechanical Surface Detection)  
Phantom: SAM-twin middle\_2013\_09\_24; Type: QD000P40CD; Serial: 1782  
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-04-04; Ambient Temp: 21.3; Tissue Temp: 21.7

### **1900 MHz System Head Verification (100 mW)**

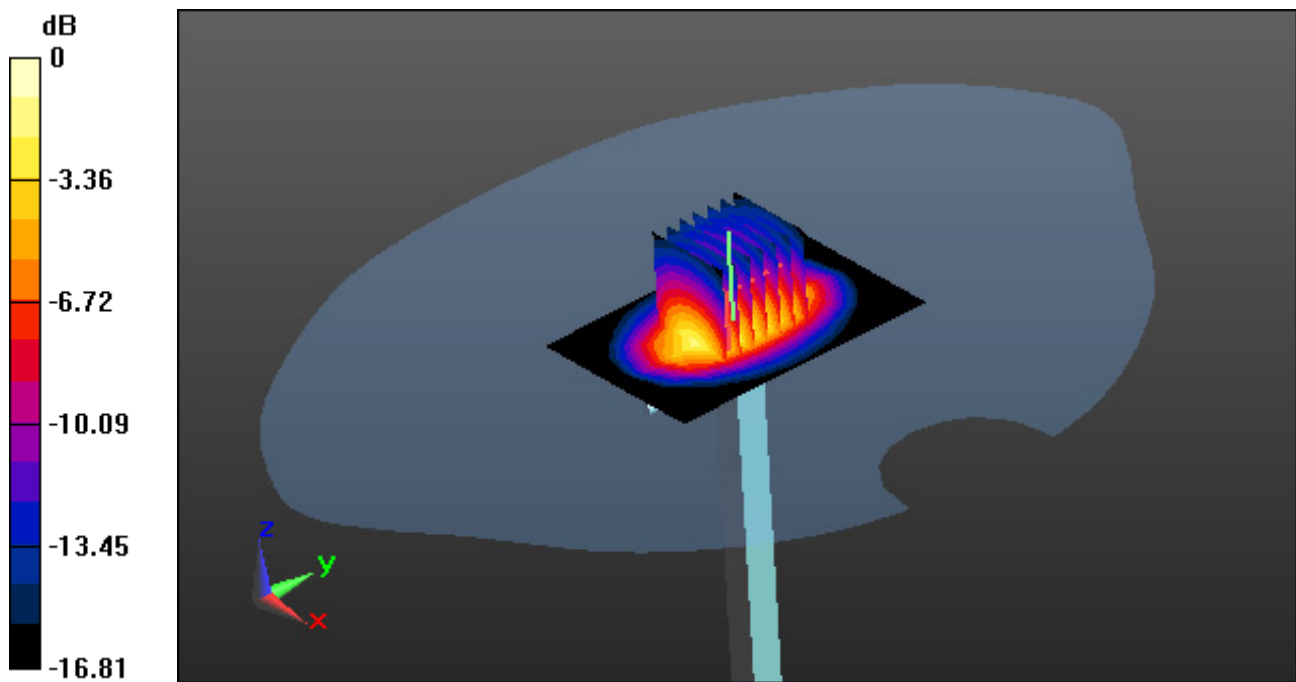
**Area Scan (7x10x1):** Measurement grid: dx=10mm, dy=10mm

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

Power Drift = 0.17 dB

Peak SAR (extrapolated) = 5.28 W/kg

SAR(1 g) = 3.95 W/kg; SAR(10 g) = 2.1 W/kg



0 dB = 3.99 W/kg

## DT&C Co., Ltd.

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d176**

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.527$  S/m;  $\epsilon_r = 55.147$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: ES3DV3 - SN3327; ConvF(4.91, 4.91, 4.91); Calibrated: 8/28/2018; Electronics: DAE3 Sn520  
Sensor-Surface: 3mm (Mechanical Surface Detection)  
Phantom: SAM-twin right\_2013\_09\_24; Type: QD000P40CD; Serial: TP:1783  
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-04-04; Ambient Temp: 21.3; Tissue Temp: 21.5

### **1900 MHz System Body Verification (100 mW)**

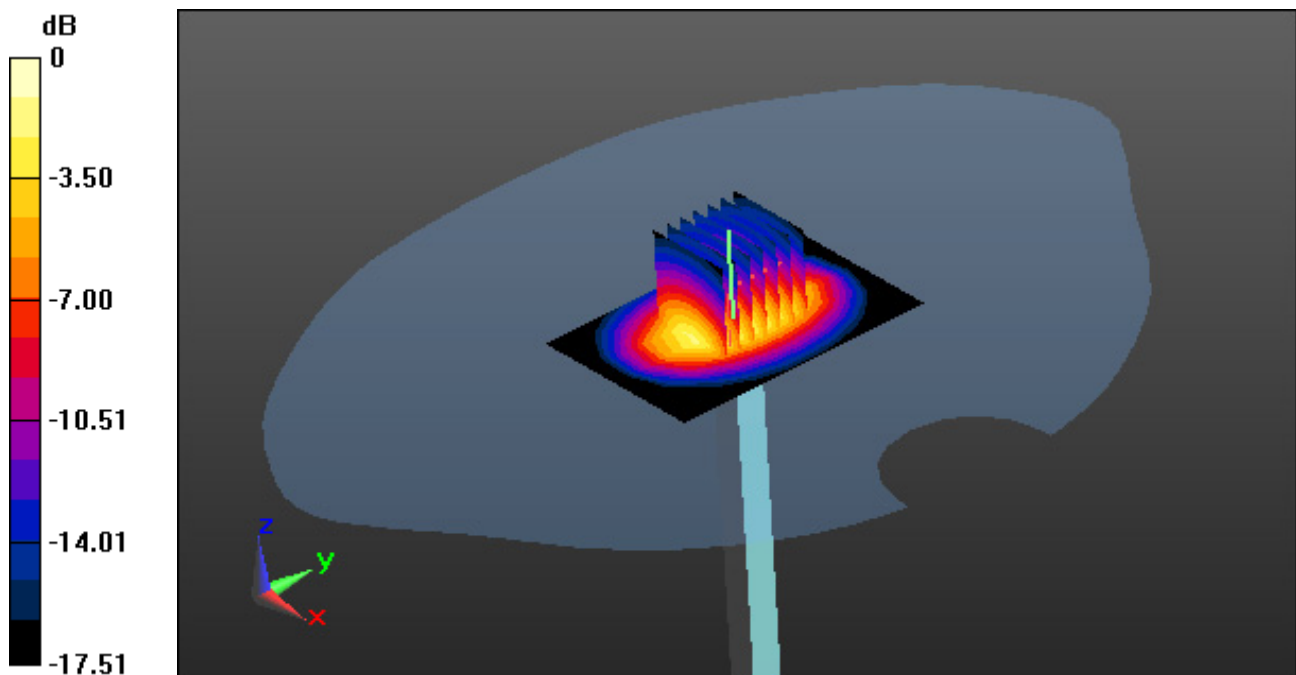
**Area Scan (7x10x1):** Measurement grid: dx=10mm, dy=10mm

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

Power Drift = -0.02 dB

Peak SAR (extrapolated) = 5.13 W/kg

**SAR(1 g) = 3.87 W/kg; SAR(10 g) = 2.06 W/kg**



0 dB = 3.95 W/kg

## DT&C Co., Ltd.

**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:920**

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.816$  S/m;  $\epsilon_r = 39.933$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3933; ConvF(7.61, 7.61, 7.61); Calibrated: 9/25/2018; Electronics: DAE4 Sn1396  
Sensor-Surface: 2mm (Mechanical Surface Detection)  
Phantom: SAM with CRP\_2016\_07\_22\_middle; Type: QD000P40CD; Serial: TP:1786  
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-03-25; Ambient Temp: 20.4; Tissue Temp: 20.8

### **2450 MHz System Head Verification (100 mW)**

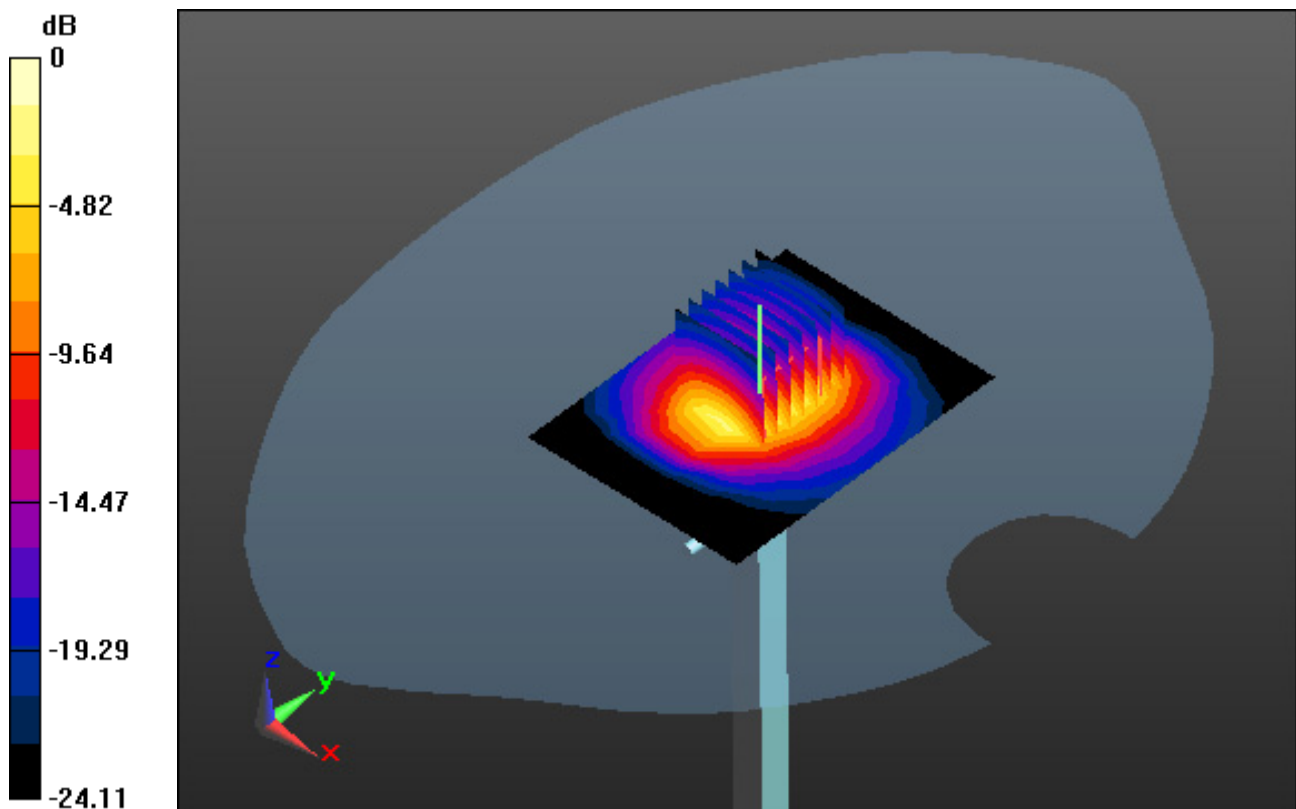
**Area Scan (7x9x1):** Measurement grid: dx=12mm, dy=12mm

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

Power Drift = -0.10 dB

Peak SAR (extrapolated) = 10.1 W/kg

SAR(1 g) = 5.1 W/kg; SAR(10 g) = 2.37 W/kg



0 dB = 7.9 W/kg

## DT&C Co., Ltd.

**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:920**

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.977$  S/m;  $\epsilon_r = 53.559$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3933; ConvF(7.75, 7.75, 7.75); Calibrated: 9/25/2018; Electronics: DAE4 Sn1396  
Sensor-Surface: 2mm (Mechanical Surface Detection)  
Phantom: SAM with CRP\_2016\_07\_22\_middle; Type: QD000P40CD; Serial: TP:1786  
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-03-25; Ambient Temp: 20.4; Tissue Temp: 21.0

### **2450 MHz System Body Verification (100 mW)**

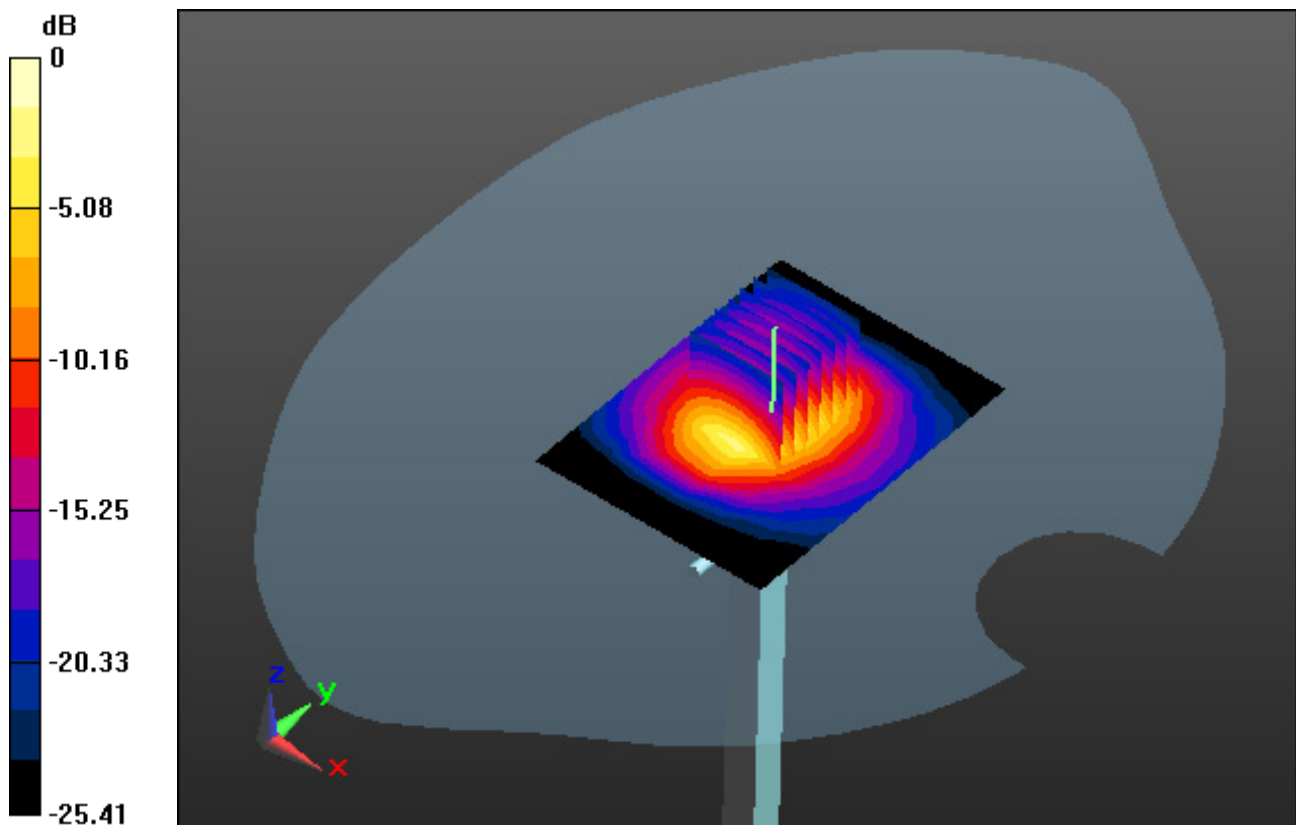
**Area Scan (7x9x1):** Measurement grid: dx=12mm, dy=12mm

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

Power Drift = -0.11 dB

Peak SAR (extrapolated) = 10.1 W/kg

SAR(1 g) = 5.05 W/kg; SAR(10 g) = 2.4 W/kg



0 dB = 7.47 W/kg

## DT&C Co., Ltd.

**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: D5GHzV2 - SN:1103**

Communication System: UID 0, CW (0); Frequency: 5200 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5200$  MHz;  $\sigma = 5.143$  S/m;  $\epsilon_r = 48.487$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3930; ConvF(4.61, 4.61, 4.61); Calibrated: 7/26/2018; Electronics: DAE4 Sn1335  
Sensor-Surface: 1.4mm (Mechanical Surface Detection)  
Phantom: Twin-SAM V5.0 ; Type: QD 000 P40 CD; Serial: 1679  
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-03-26; Ambient Temp: 20.6; Tissue Temp: 20.8

### **5200 MHz System Body Verification (100 mW)**

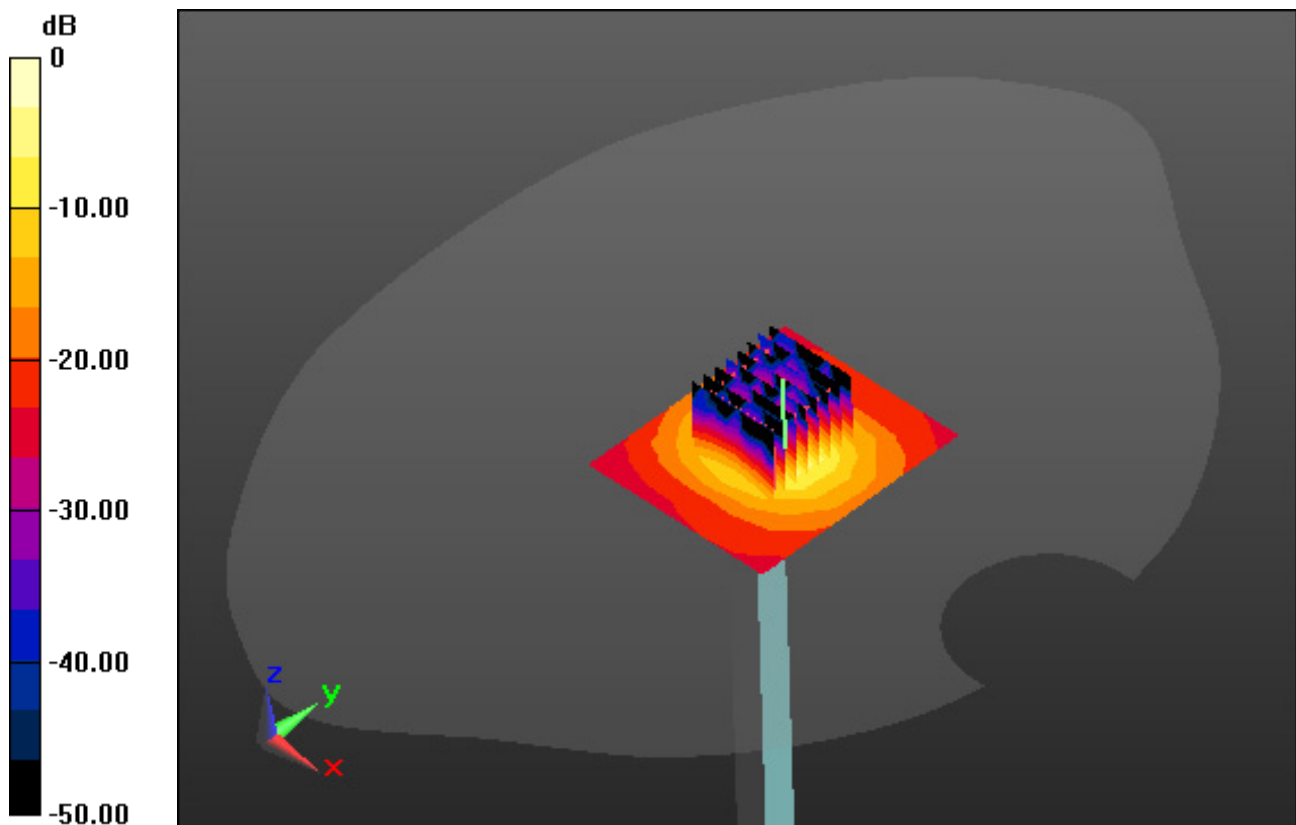
**Area Scan (7x8x1):** Measurement grid: dx=10mm, dy=10mm

**Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm, Graded Ratio: 1.4

Power Drift = -0.08 dB

Peak SAR (extrapolated) = 29.9 W/kg

SAR(1 g) = 7.42 W/kg; SAR(10 g) = 2.13 W/kg



0 dB = 17.3 W/kg

## DT&C Co., Ltd.

**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: D5GHzV2 - SN:1103**

Communication System: UID 0, CW (0); Frequency: 5300 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5300$  MHz;  $\sigma = 4.705$  S/m;  $\epsilon_r = 35.59$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3916; ConvF(5.04, 5.04, 5.04); Calibrated: 4/25/2018; Electronics: DAE4 Sn1391  
Sensor-Surface: 1.4mm (Mechanical Surface Detection)  
Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:1837  
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-03-27; Ambient Temp: 20.8; Tissue Temp: 21.1

### **5300 MHz System Head Verification (100 mW)**

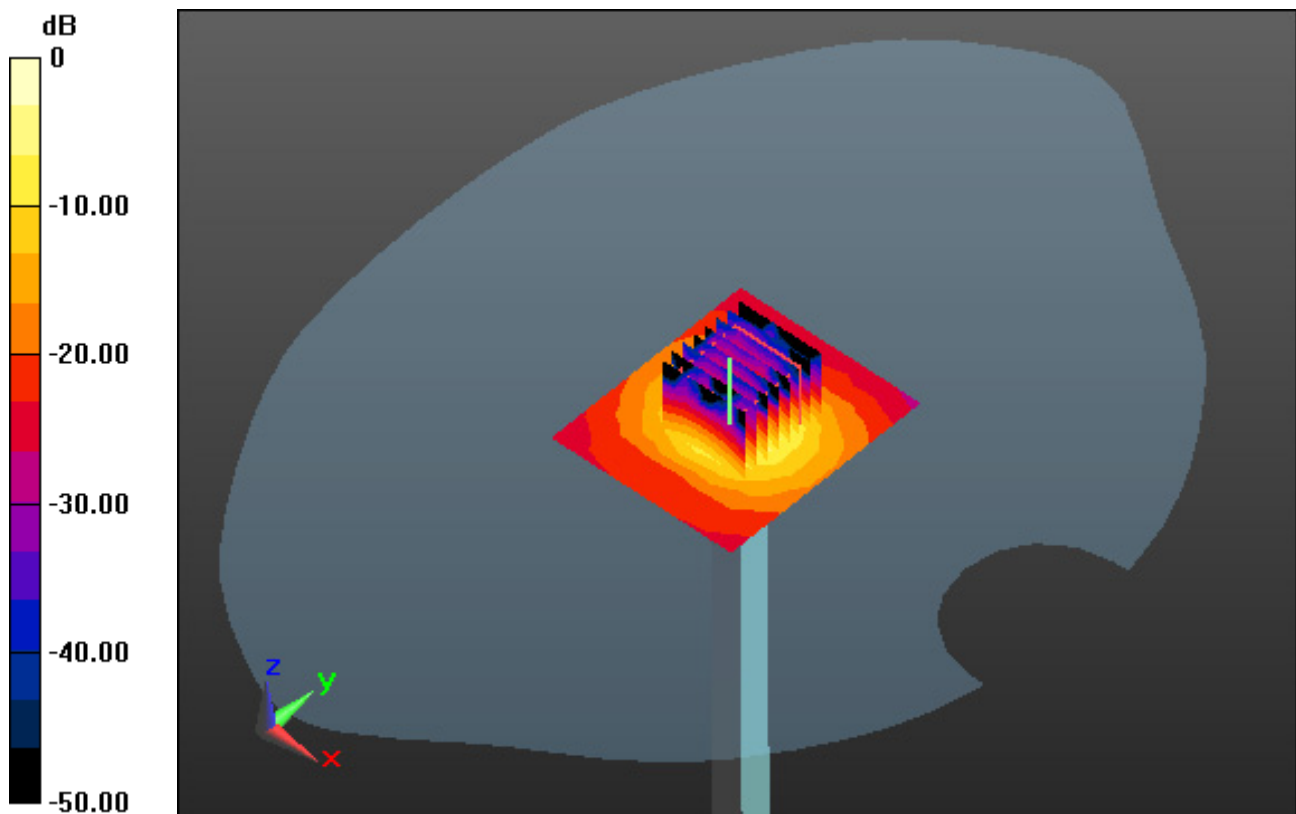
**Area Scan (7x8x1):** Measurement grid: dx=10mm, dy=10mm

**Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm, Graded Ratio: 1.4

Power Drift = -0.11 dB

Peak SAR (extrapolated) = 30.5 W/kg

**SAR(1 g) = 7.87 W/kg; SAR(10 g) = 2.24 W/kg**



0 dB = 18.2 W/kg

## DT&C Co., Ltd.

**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: D5GHzV2 - SN:1103**

Communication System: UID 0, CW (0); Frequency: 5300 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5300$  MHz;  $\sigma = 5.566$  S/m;  $\epsilon_r = 48.676$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3930; ConvF(4.47, 4.47, 4.47); Calibrated: 7/26/2018; Electronics: DAE4 Sn1335  
Sensor-Surface: 1.4mm (Mechanical Surface Detection)  
Phantom: Twin-SAM V5.0 ; Type: QD 000 P40 CD; Serial: 1679  
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-03-27; Ambient Temp: 20.8; Tissue Temp: 21.2

### **5300 MHz System Body Verification (100 mW)**

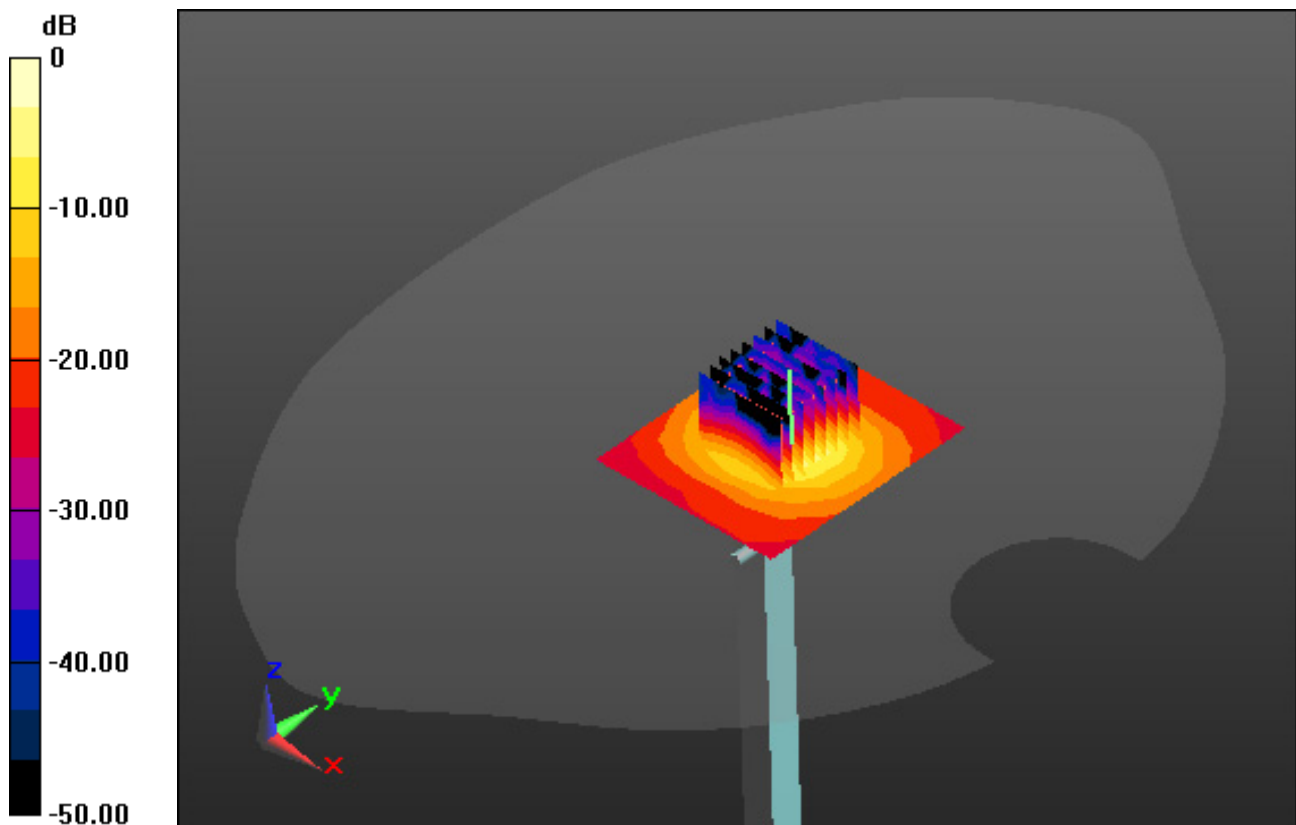
**Area Scan (7x8x1):** Measurement grid: dx=10mm, dy=10mm

**Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm, Graded Ratio: 1.4

Power Drift = -0.10 dB

Peak SAR (extrapolated) = 31.4 W/kg

**SAR(1 g) = 7.77 W/kg; SAR(10 g) = 2.17 W/kg**



0 dB = 18.7 W/kg

## DT&C Co., Ltd.

**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: D5GHzV2 - SN:1103**

Communication System: UID 0, CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5600$  MHz;  $\sigma = 5.047$  S/m;  $\epsilon_r = 35.041$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3916; ConvF(4.84, 4.84, 4.84); Calibrated: 4/25/2018; Electronics: DAE4 Sn1391  
Sensor-Surface: 1.4mm (Mechanical Surface Detection)  
Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:1837  
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-03-28; Ambient Temp: 20.5; Tissue Temp: 20.7

### **5600 MHz System Head Verification (100 mW)**

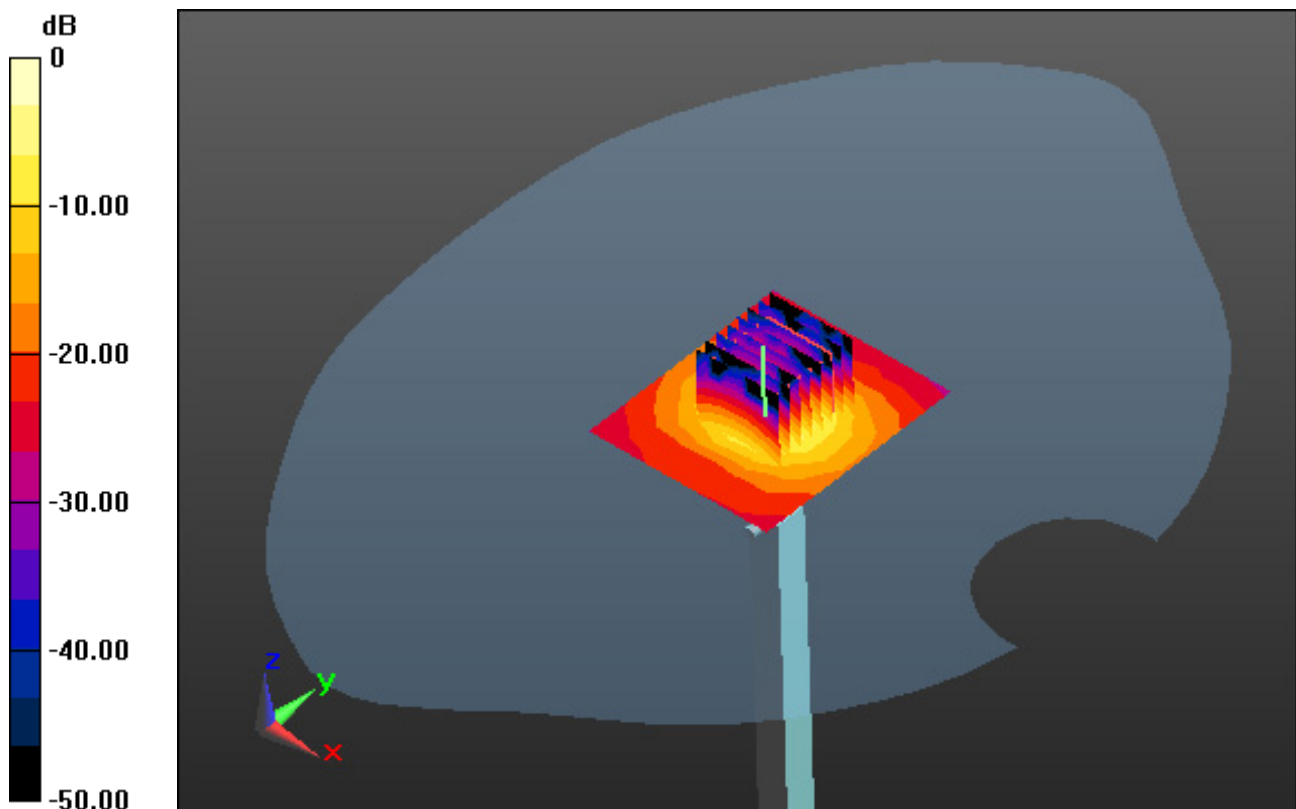
**Area Scan (7x8x1):** Measurement grid: dx=10mm, dy=10mm

**Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm, Graded Ratio: 1.4

Power Drift = -0.17 dB

Peak SAR (extrapolated) = 33.7 W/kg

SAR(1 g) = 8.39 W/kg; SAR(10 g) = 2.4 W/kg



0 dB = 20.1 W/kg

## DT&C Co., Ltd.

**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: D5GHzV2 - SN:1103**

Communication System: UID 0, CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5600$  MHz;  $\sigma = 5.634$  S/m;  $\epsilon_r = 48.565$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3930; ConvF(4.09, 4.09, 4.09); Calibrated: 7/26/2018; Electronics: DAE4 Sn1335  
Sensor-Surface: 1.4mm (Mechanical Surface Detection)  
Phantom: Twin-SAM V5.0 ; Type: QD 000 P40 CD; Serial: 1679  
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-03-28; Ambient Temp: 20.9; Tissue Temp: 21.0

### **5600 MHz System Body Verification (100 mW)**

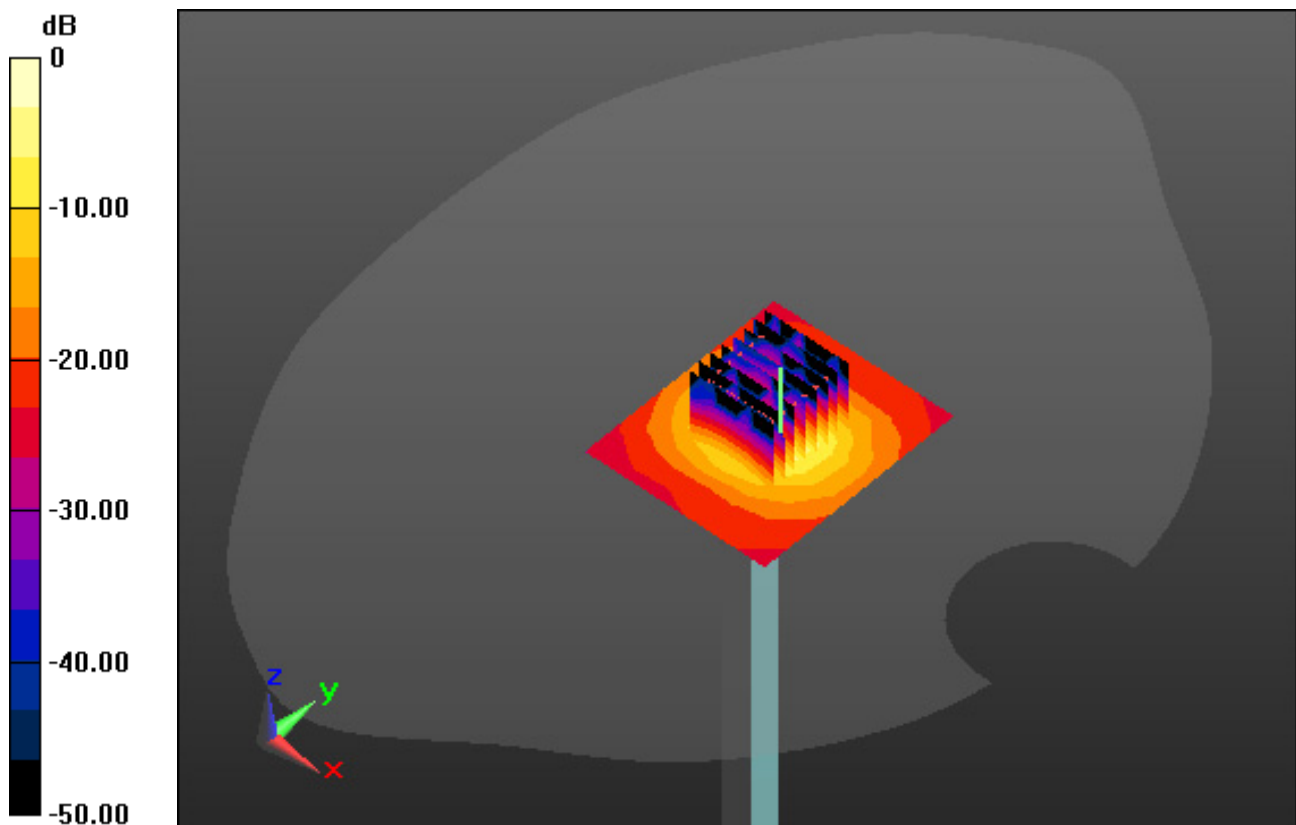
**Area Scan (7x8x1):** Measurement grid: dx=10mm, dy=10mm

**Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm, Graded Ratio: 1.4

Power Drift = -0.07 dB

Peak SAR (extrapolated) = 30.4 W/kg

**SAR(1 g) = 7.59 W/kg; SAR(10 g) = 2.12 W/kg**



0 dB = 18.2 W/kg

## DT&C Co., Ltd.

**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: D5GHzV2 - SN:1103**

Communication System: UID 0, CW (0); Frequency: 5800 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.273$  S/m;  $\epsilon_r = 34.701$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3916; ConvF(4.94, 4.94, 4.94); Calibrated: 4/25/2018; Electronics: DAE4 Sn1391  
Sensor-Surface: 1.4mm (Mechanical Surface Detection)  
Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:1837  
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-03-29; Ambient Temp: 20.7; Tissue Temp: 20.9

### **5800 MHz System Head Verification (100 mW)**

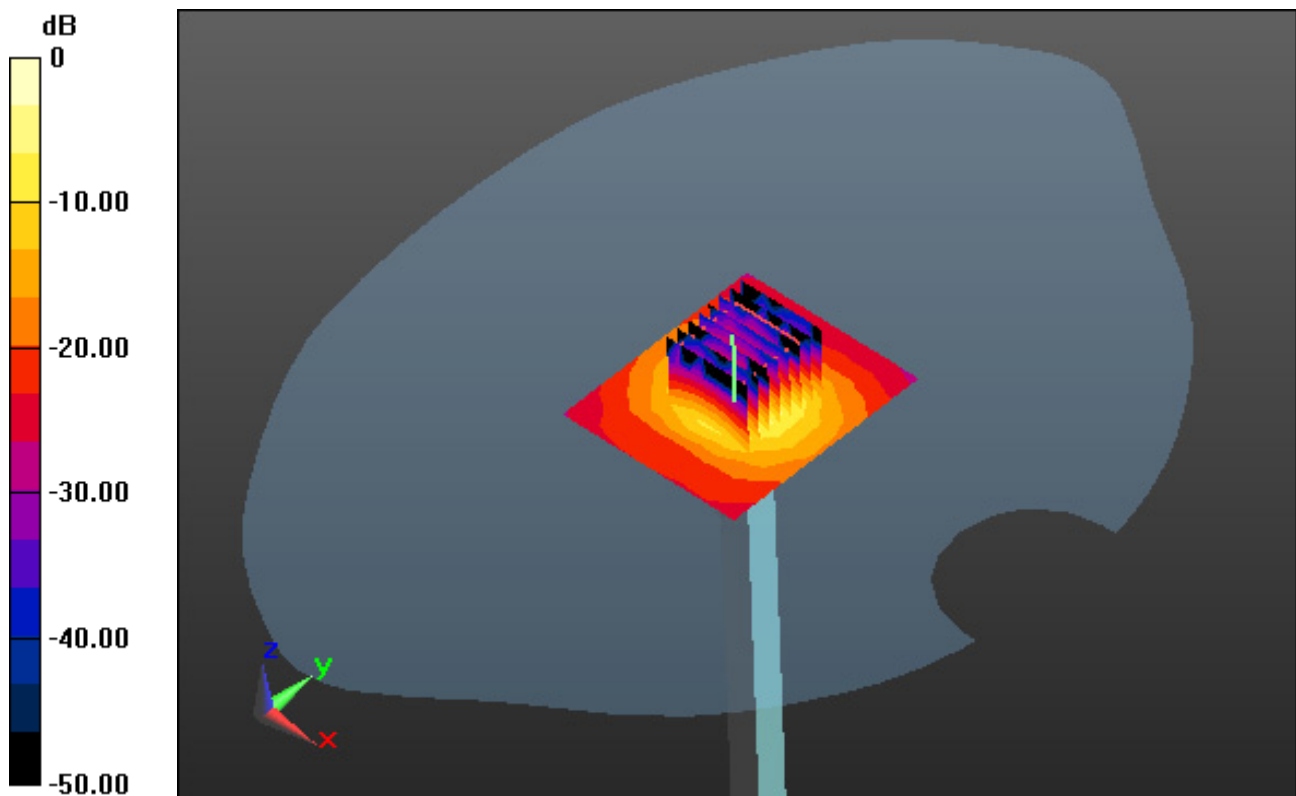
**Area Scan (7x8x1):** Measurement grid: dx=10mm, dy=10mm

**Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm, Graded Ratio: 1.4

Power Drift = -0.15 dB

Peak SAR (extrapolated) = 30.5 W/kg

SAR(1 g) = 7.71 W/kg; SAR(10 g) = 2.25 W/kg



0 dB = 18.2 W/kg

## DT&C Co., Ltd.

**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: D5GHzV2 - SN:1103**

Communication System: UID 0, CW (0); Frequency: 5800 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.875$  S/m;  $\epsilon_r = 48.079$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3930; ConvF(4.14, 4.14, 4.14); Calibrated: 7/26/2018; Electronics: DAE4 Sn1335  
Sensor-Surface: 1.4mm (Mechanical Surface Detection)  
Phantom: Twin-SAM V5.0 ; Type: QD 000 P40 CD; Serial: 1679  
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-03-29; Ambient Temp: 20.6; Tissue Temp: 20.9

### **5800 MHz System Body Verification (100 mW)**

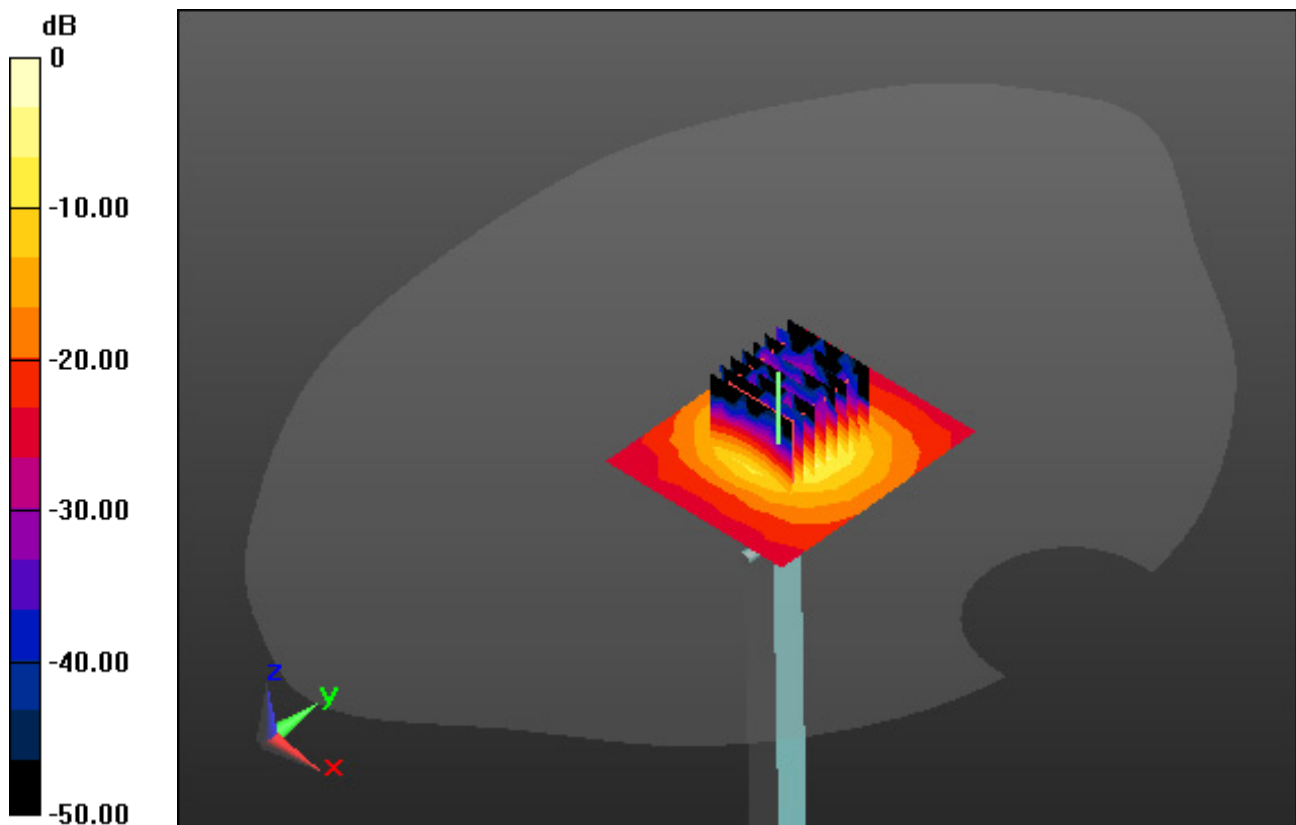
**Area Scan (7x8x1):** Measurement grid: dx=10mm, dy=10mm

**Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm, Graded Ratio: 1.4

Power Drift = 0.06 dB

Peak SAR (extrapolated) = 33.2 W/kg

**SAR(1 g) = 7.45 W/kg; SAR(10 g) = 2.06 W/kg**



0 dB = 18.2 W/kg

## DT&C Co., Ltd.

**DUT: LM-X525EAW; Type: Bar**

Communication System: UID 0, GSM 850 (0); Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used:  $f = 836.6$  MHz;  $\sigma = 0.895$  S/m;  $\epsilon_r = 41.493$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### **DASY5 Configuration:**

Probe: ES3DV3 - SN3327; ConvF(6.35, 6.35, 6.35); Calibrated: 8/28/2018; Electronics: DAE3 Sn520

Sensor-Surface: 3mm (Mechanical Surface Detection)

Phantom: SAM-twin middle\_2013\_09\_24; Type: QD000P40CD; Serial: 1782

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-04-01; Ambient Temp: 21.4; Tissue Temp: 21.2

**Right Touch, GSM850 Ch. 190, Ant Internal, Standard Battery**

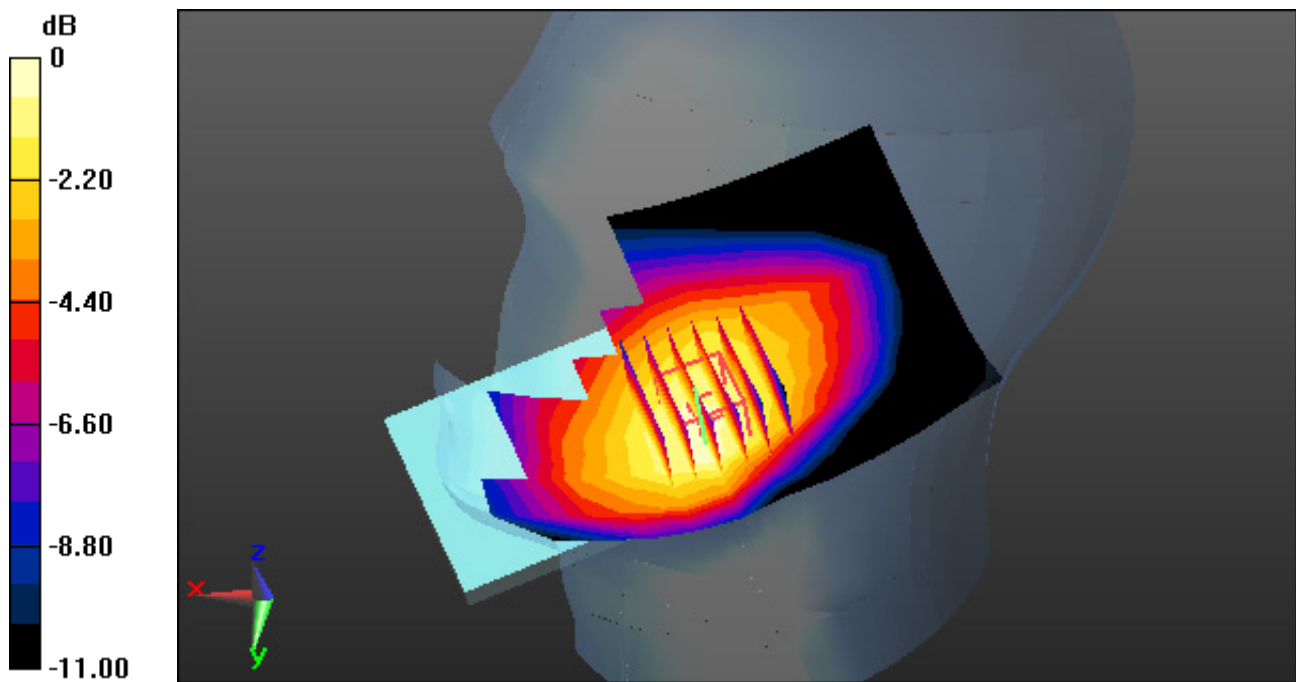
**Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm

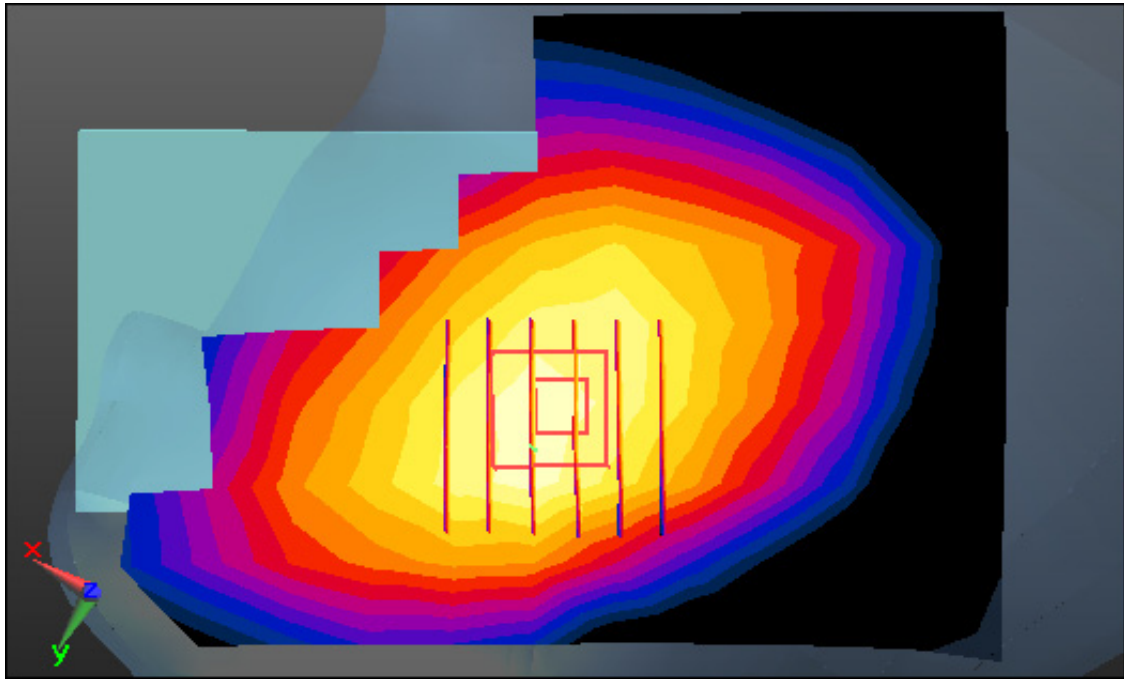
**Zoom Scan (6x6x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.385 W/kg

**SAR(1 g) = 0.288 W/kg; SAR(10 g) = 0.220 W/kg**





Enlarged Plot for A1

## DT&C Co., Ltd.

**DUT: LM-X525EAW; Type: Bar**

Communication System: UID 0, GSM 850\_4 Tx (0); Frequency: 836.6 MHz; Duty Cycle: 1:2.075

Medium parameters used:  $f = 836.6$  MHz;  $\sigma = 0.895$  S/m;  $\epsilon_r = 41.493$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### **DASY5 Configuration:**

Probe: ES3DV3 - SN3327; ConvF(6.35, 6.35, 6.35); Calibrated: 8/28/2018; Electronics: DAE3 Sn520

Sensor-Surface: 3mm (Mechanical Surface Detection)

Phantom: SAM-twin middle\_2013\_09\_24; Type: QD000P40CD; Serial: 1782

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-04-01; Ambient Temp: 21.4; Tissue Temp: 21.2

**Right Touch, GSM850 GPRS 4Tx Ch. 190, Ant Internal, Standard Battery**

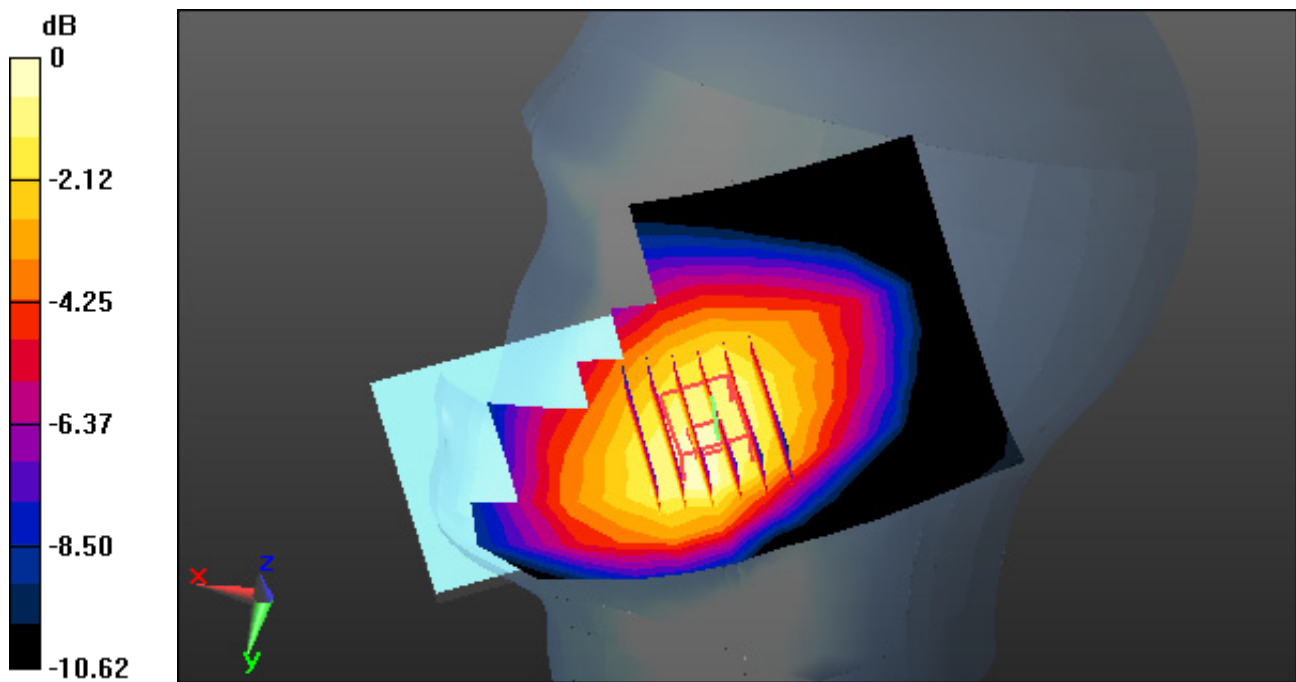
**Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (6x6x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

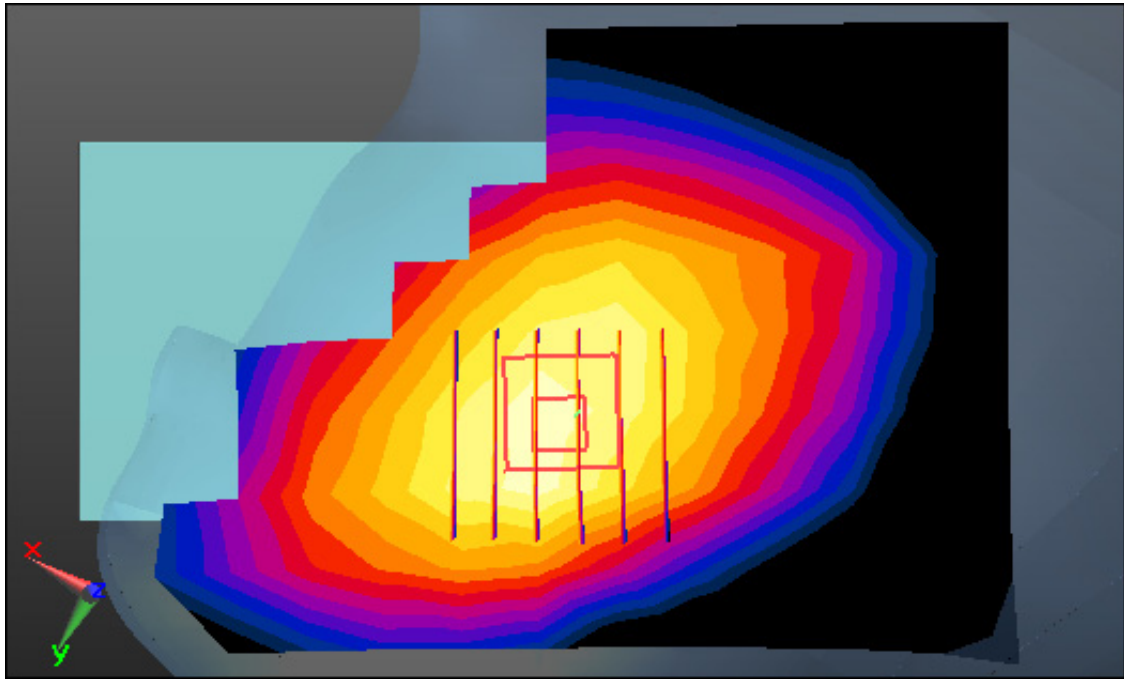
Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.456 W/kg

**SAR(1 g) = 0.346 W/kg; SAR(10 g) = 0.260 W/kg**



0 dB = 0.388 W/kg



Enlarged Plot for A2

## DT&C Co., Ltd.

**DUT: LM-X525EAW; Type: Bar**

Communication System: UID 0, PCS 1900 (0); Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.383$  S/m;  $\epsilon_r = 40.016$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

### **DASY5 Configuration:**

Probe: ES3DV3 - SN3327; ConvF(5.27, 5.27, 5.27); Calibrated: 8/28/2018; Electronics: DAE3 Sn520

Sensor-Surface: 3mm (Mechanical Surface Detection)

Phantom: SAM-twin middle\_2013\_09\_24; Type: QD000P40CD; Serial: 1782

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-04-03; Ambient Temp: 21.6; Tissue Temp: 21.3

**Left Touch, PCS1900 Ch. 661, Ant Internal, Standard Battery**

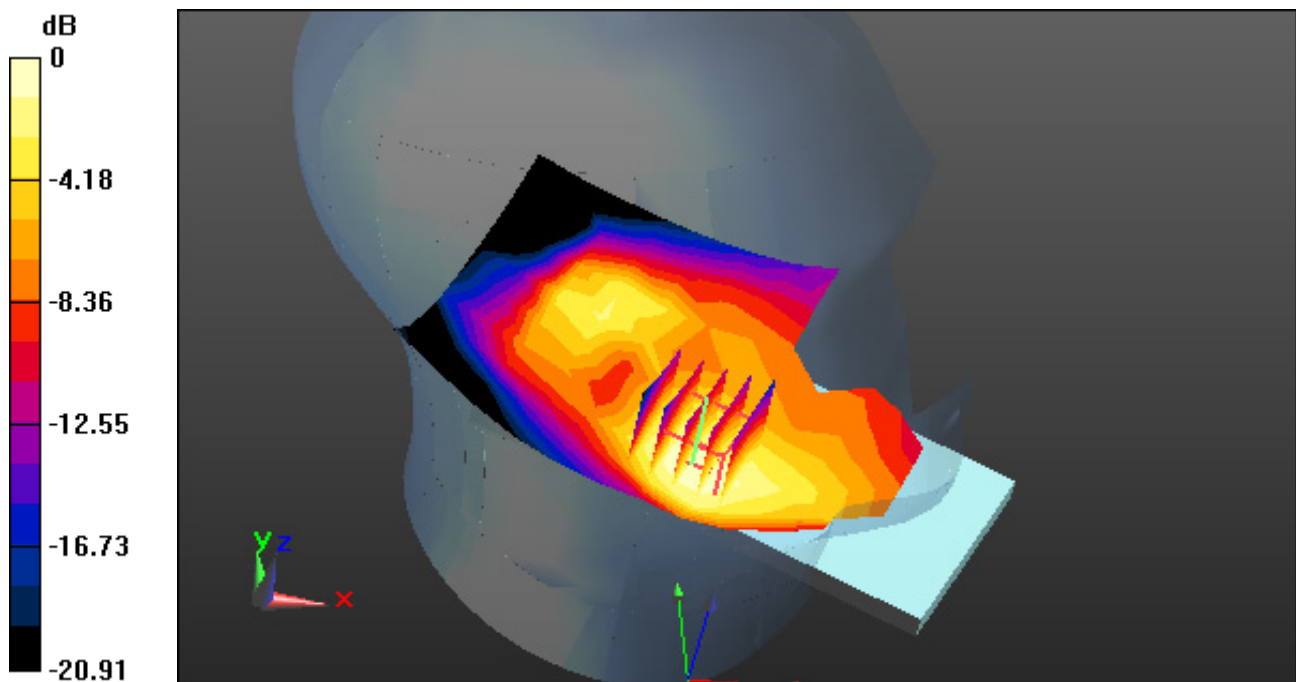
**Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm

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

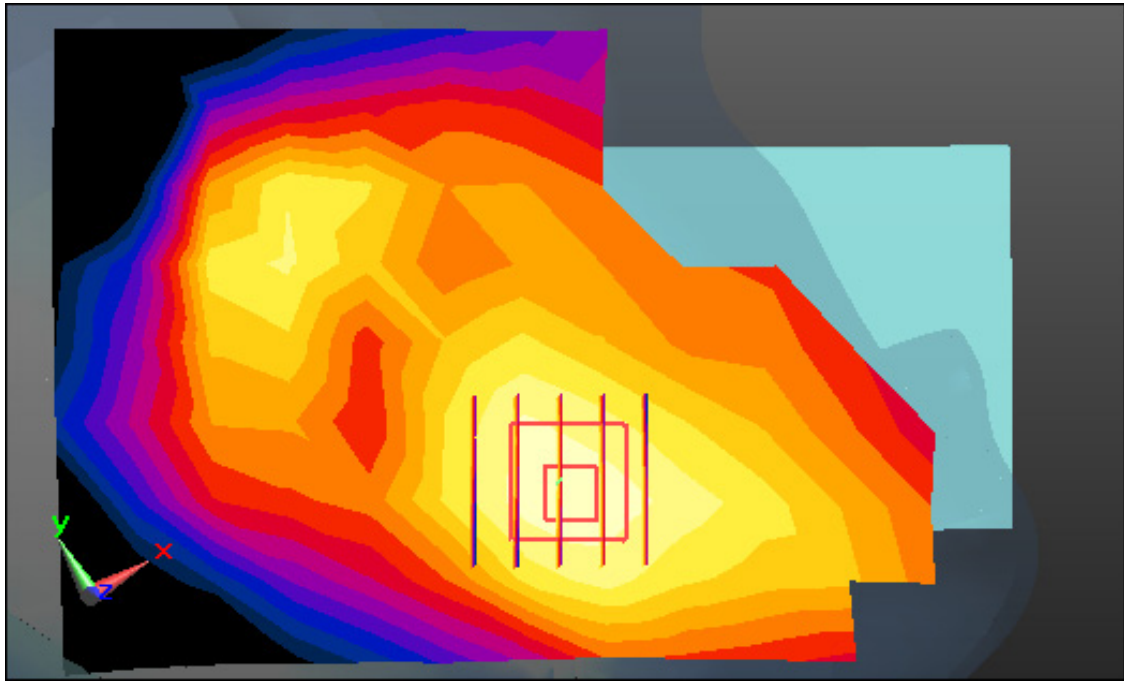
Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.267 W/kg

**SAR(1 g) = 0.173 W/kg; SAR(10 g) = 0.105 W/kg**



0 dB = 0.203 W/kg



Enlarged Plot for A3

## DT&C Co., Ltd.

**DUT: LM-X525EAW; Type: Bar**

Communication System: UID 0, PCS1900\_4 Tx (0); Frequency: 1880 MHz; Duty Cycle: 1:2.075

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.383$  S/m;  $\epsilon_r = 40.016$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

### **DASY5 Configuration:**

Probe: ES3DV3 - SN3327; ConvF(5.27, 5.27, 5.27); Calibrated: 8/28/2018; Electronics: DAE3 Sn520

Sensor-Surface: 3mm (Mechanical Surface Detection)

Phantom: SAM-twin middle\_2013\_09\_24; Type: QD000P40CD; Serial: 1782

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-04-03; Ambient Temp: 21.6; Tissue Temp: 21.3

**Left Touch, PCS1900 GPRS 4Tx Ch. 661, Ant Internal, Standard Battery**

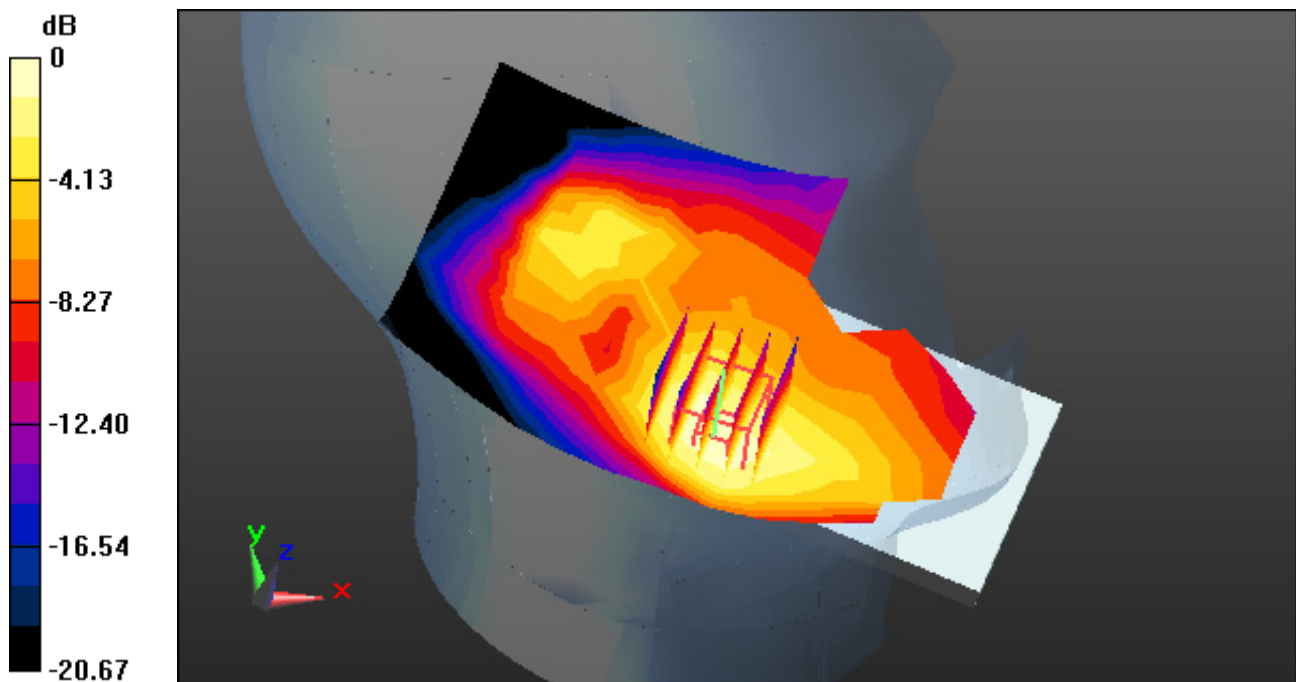
**Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm

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

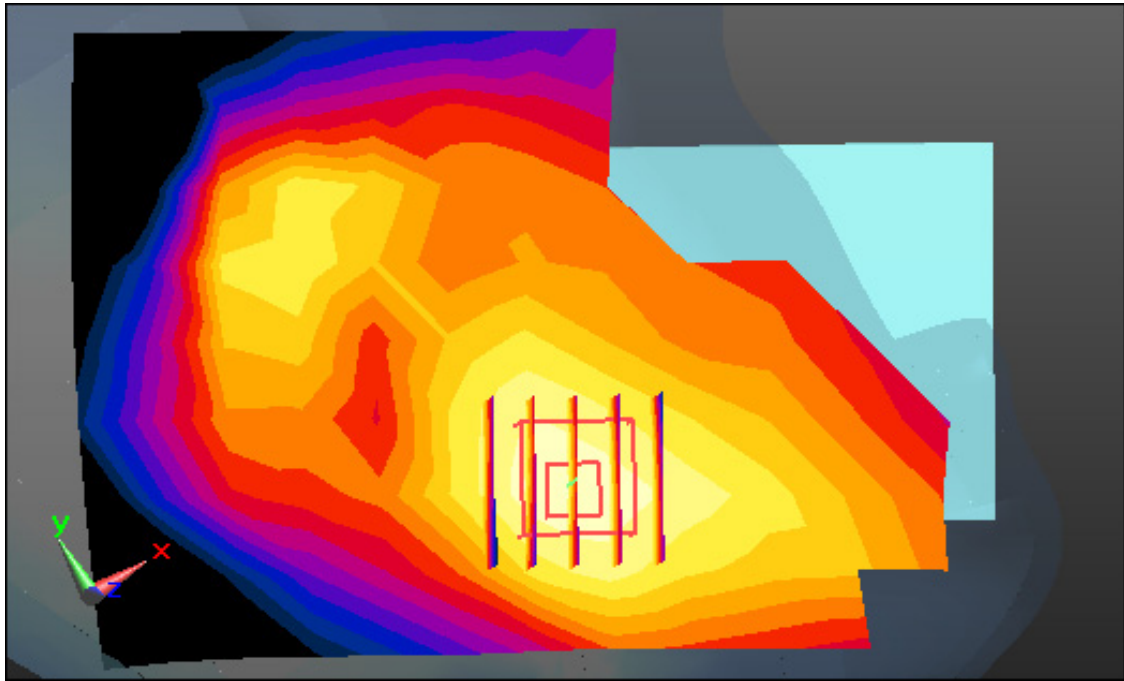
Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.388 W/kg

**SAR(1 g) = 0.251 W/kg; SAR(10 g) = 0.153 W/kg**



0 dB = 0.299 W/kg



Enlarged Plot for A4

## DT&C Co., Ltd.

**DUT: LM-X525EAW; Type: Bar**

Communication System: UID 0, WCDMA 850 (0); Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 836.6$  MHz;  $\sigma = 0.894$  S/m;  $\epsilon_r = 41.508$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### **DASY5 Configuration:**

Probe: ES3DV3 - SN3327; ConvF(6.35, 6.35, 6.35); Calibrated: 8/28/2018; Electronics: DAE3 Sn520

Sensor-Surface: 3mm (Mechanical Surface Detection)

Phantom: SAM-twin middle\_2013\_09\_24; Type: QD000P40CD; Serial: 1782

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-04-02; Ambient Temp: 21.2; Tissue Temp: 21.5

**Right Touch, WCDMA850 Ch. 4183, Ant Internal, Standard Battery**

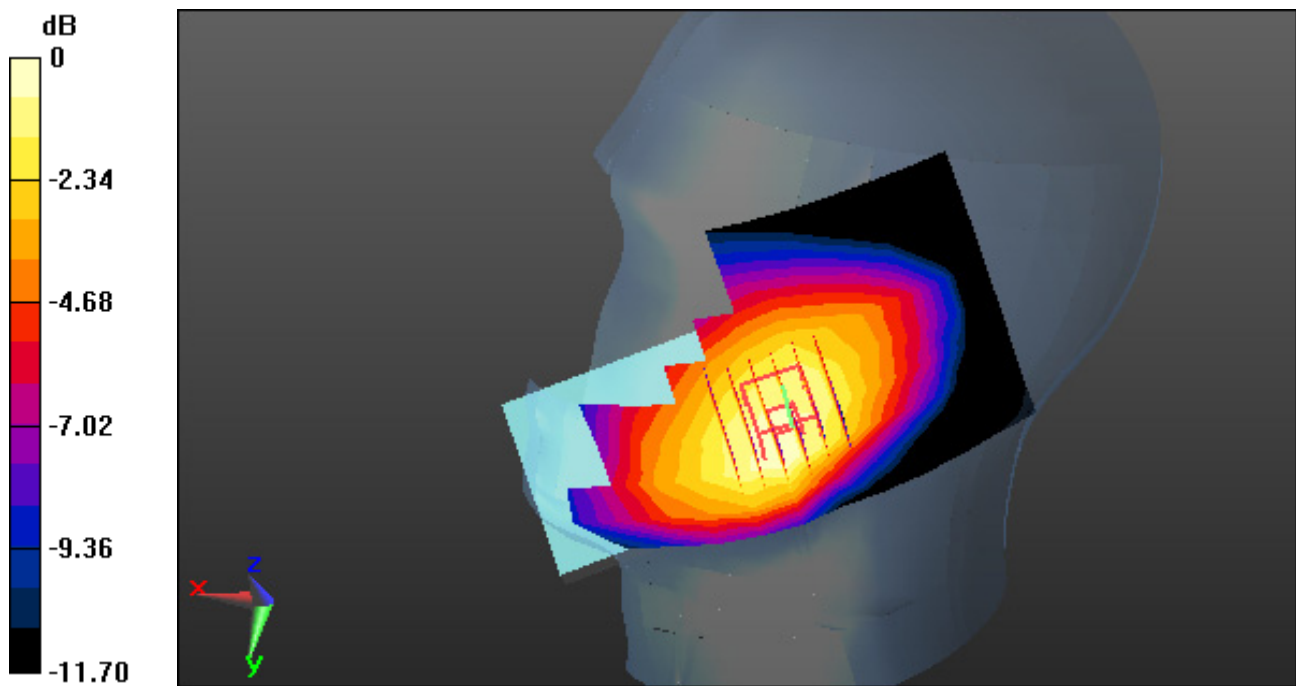
**Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (6x6x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

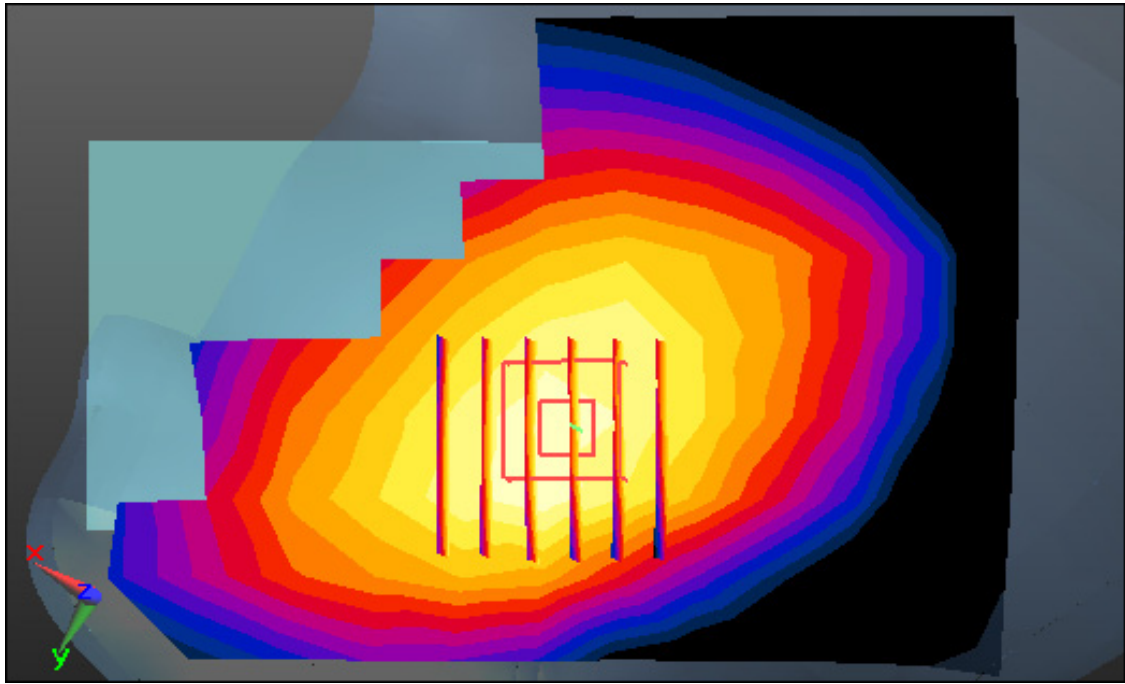
Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.462 W/kg

**SAR(1 g) = 0.359 W/kg; SAR(10 g) = 0.273 W/kg**



0 dB = 0.400 W/kg



Enlarged Plot for A5

## DT&C Co., Ltd.

**DUT: LM-X525EAW; Type: Bar**

Communication System: UID 0, WCDMA 1900 (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.385$  S/m;  $\epsilon_r = 39.586$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

### **DASY5 Configuration:**

Probe: ES3DV3 - SN3327; ConvF(5.27, 5.27, 5.27); Calibrated: 8/28/2018; Electronics: DAE3 Sn520

Sensor-Surface: 3mm (Mechanical Surface Detection)

Phantom: SAM-twin middle\_2013\_09\_24; Type: QD000P40CD; Serial: 1782

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-04-04; Ambient Temp: 21.3; Tissue Temp: 21.7

**Left Touch, WCDMA1900 Ch. 9400, Ant Internal, Standard Battery**

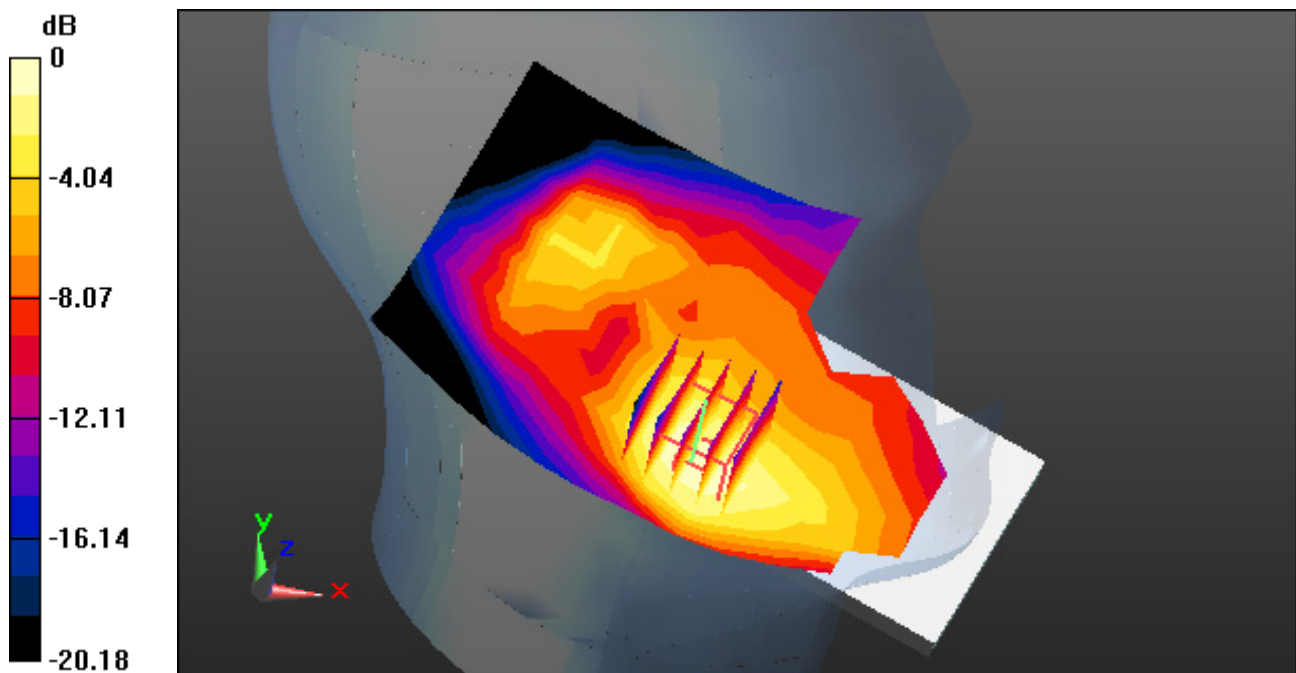
**Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm

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

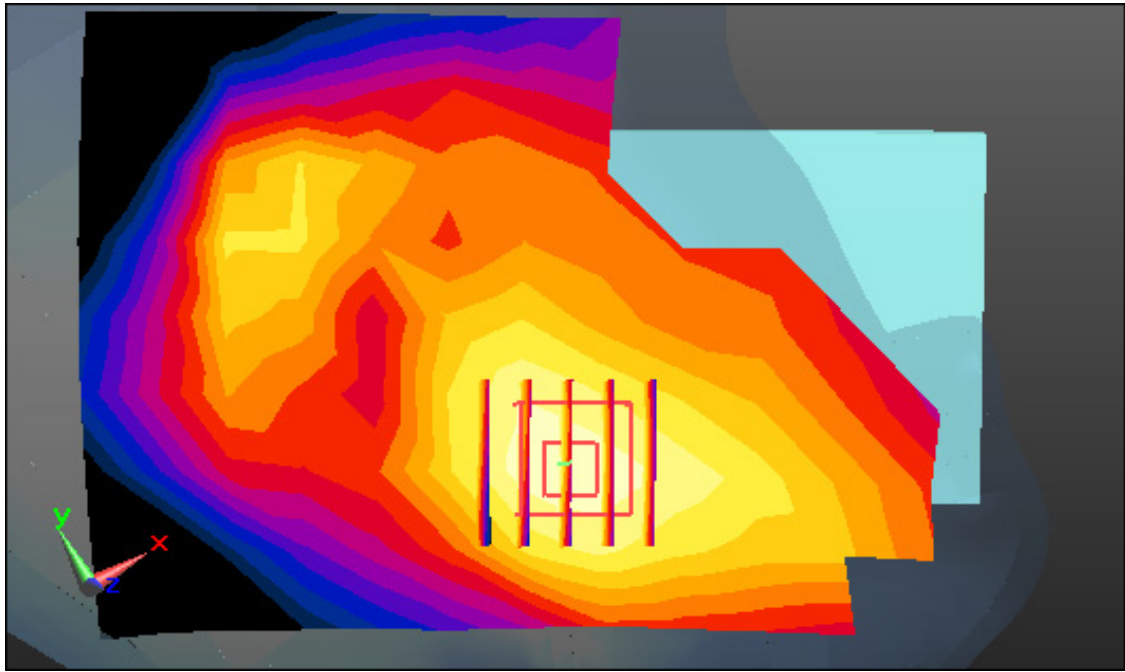
Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.554 W/kg

**SAR(1 g) = 0.362 W/kg; SAR(10 g) = 0.222 W/kg**



0 dB = 0.428 W/kg



Enlarged Plot for A6

## DT&C Co., Ltd.

**DUT: LM-X525EAW; Type: Bar**

Communication System: UID 0, 2.4 GHz W-LAN (0); Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2437 \text{ MHz}$ ;  $\sigma = 1.801 \text{ S/m}$ ;  $\epsilon_r = 39.952$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3933; ConvF(7.61, 7.61, 7.61); Calibrated: 9/25/2018; Electronics: DAE4 Sn1396

Sensor-Surface: 2mm (Mechanical Surface Detection)

Phantom: SAM with CRP\_2016\_07\_22\_middle; Type: QD000P40CD; Serial: TP:1786

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-03-25; Ambient Temp: 20.4; Tissue Temp: 20.8

**Right Touch, WLAN(802.11b) Ch. 6, Ant Internal, Standard Battery**

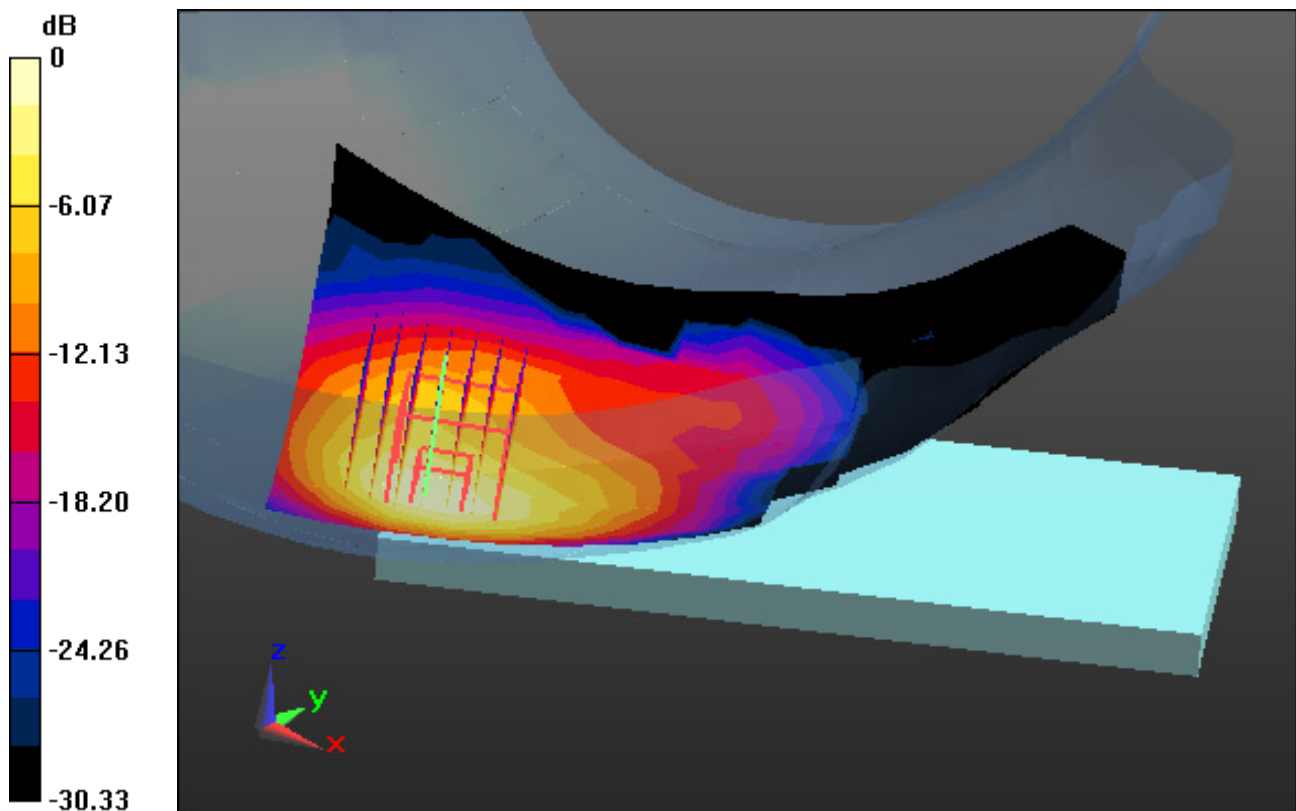
**Area Scan (11x17x1):** Measurement grid:  $dx=12\text{mm}$ ,  $dy=12\text{mm}$

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

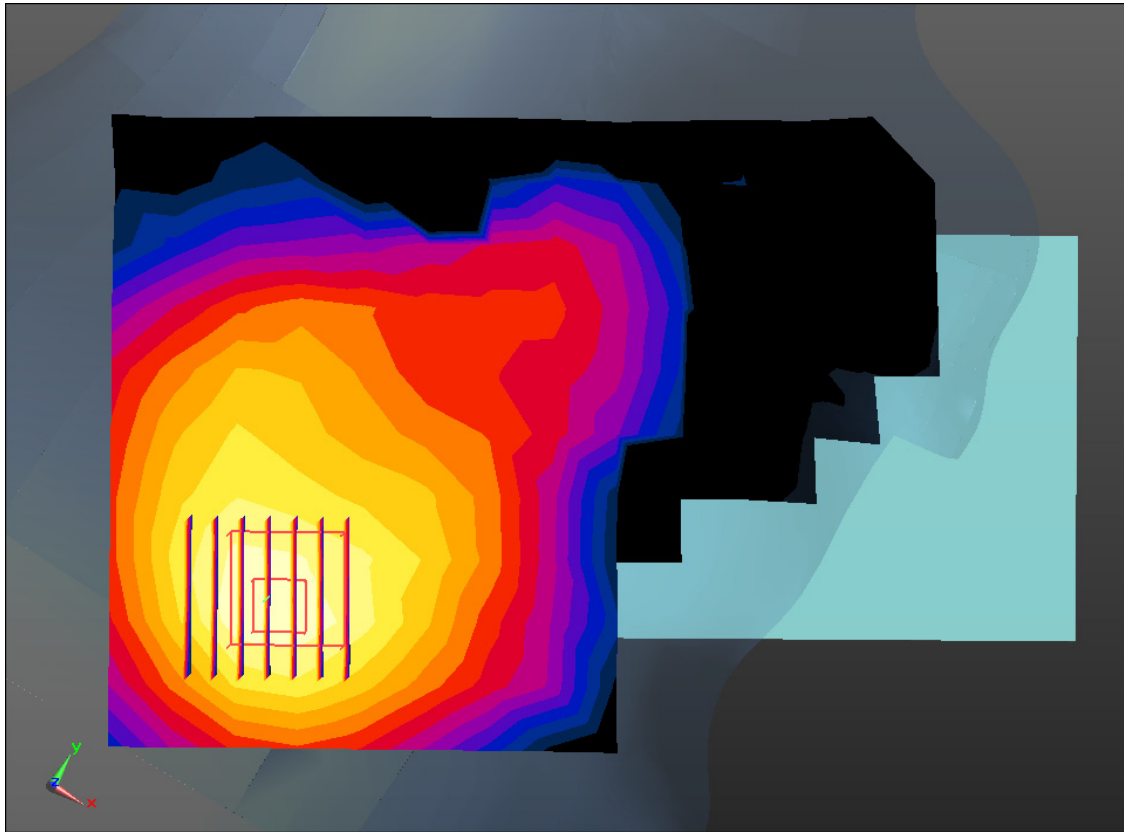
Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.04 W/kg

SAR(1 g) = 0.448 W/kg; SAR(10 g) = 0.209 W/kg



0 dB = 0.689 W/kg



Enlarged Plot for A7

## DT&C Co., Ltd.

**DUT: LM-X525EAW; Type: Bar**

Communication System: UID 0, 00\_5GHz W-LAN (0); Frequency: 5320 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5320 \text{ MHz}$ ;  $\sigma = 4.728 \text{ S/m}$ ;  $\epsilon_r = 35.553$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3916; ConvF(5.04, 5.04, 5.04); Calibrated: 4/25/2018; Electronics: DAE4 Sn1391

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:1837

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-03-27; Ambient Temp: 20.8; Tissue Temp: 21.1

**Right Tilt, WLAN(802.11a) Ch. 64, Ant Internal, Standard Battery**

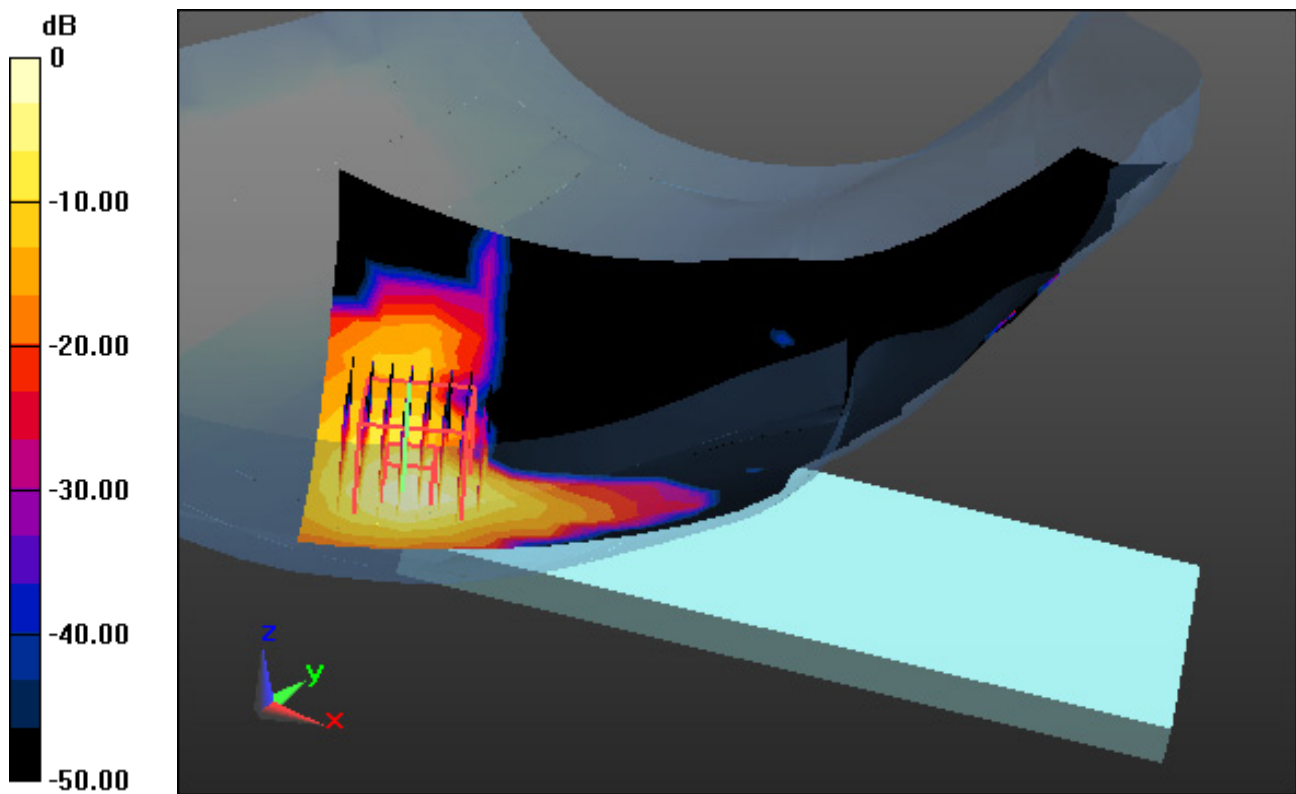
**Area Scan (13x21x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

**Zoom Scan (8x8x7)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=1.4\text{mm}$ , Graded Ratio: 1.4

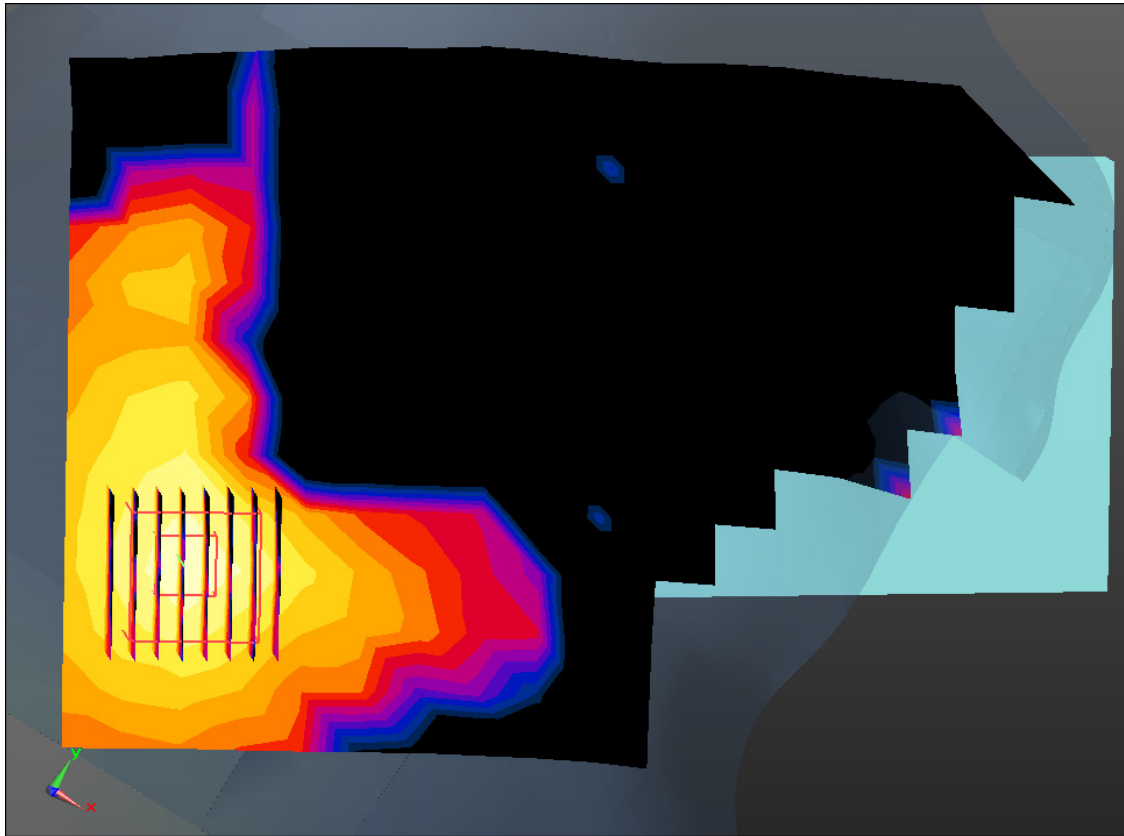
Power Drift = 0.12 dB

Peak SAR (extrapolated) = 2.08 W/kg

**SAR(1 g) = 0.518 W/kg; SAR(10 g) = 0.153 W/kg**



0 dB = 1.28 W/kg



Enlarged Plot for A8

## DT&C Co., Ltd.

**DUT: LM-X525EAW; Type: Bar**

Communication System: UID 0, W-LAN 5G (0); Frequency: 5660 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5660 \text{ MHz}$ ;  $\sigma = 5.111 \text{ S/m}$ ;  $\epsilon_r = 34.95$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3916; ConvF(4.84, 4.84, 4.84); Calibrated: 4/25/2018; Electronics: DAE4 Sn1391

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:1837

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-03-28; Ambient Temp: 20.5; Tissue Temp: 20.7

**Right Tilt, WLAN(802.11a) Ch. 132, Ant Internal, Standard Battery**

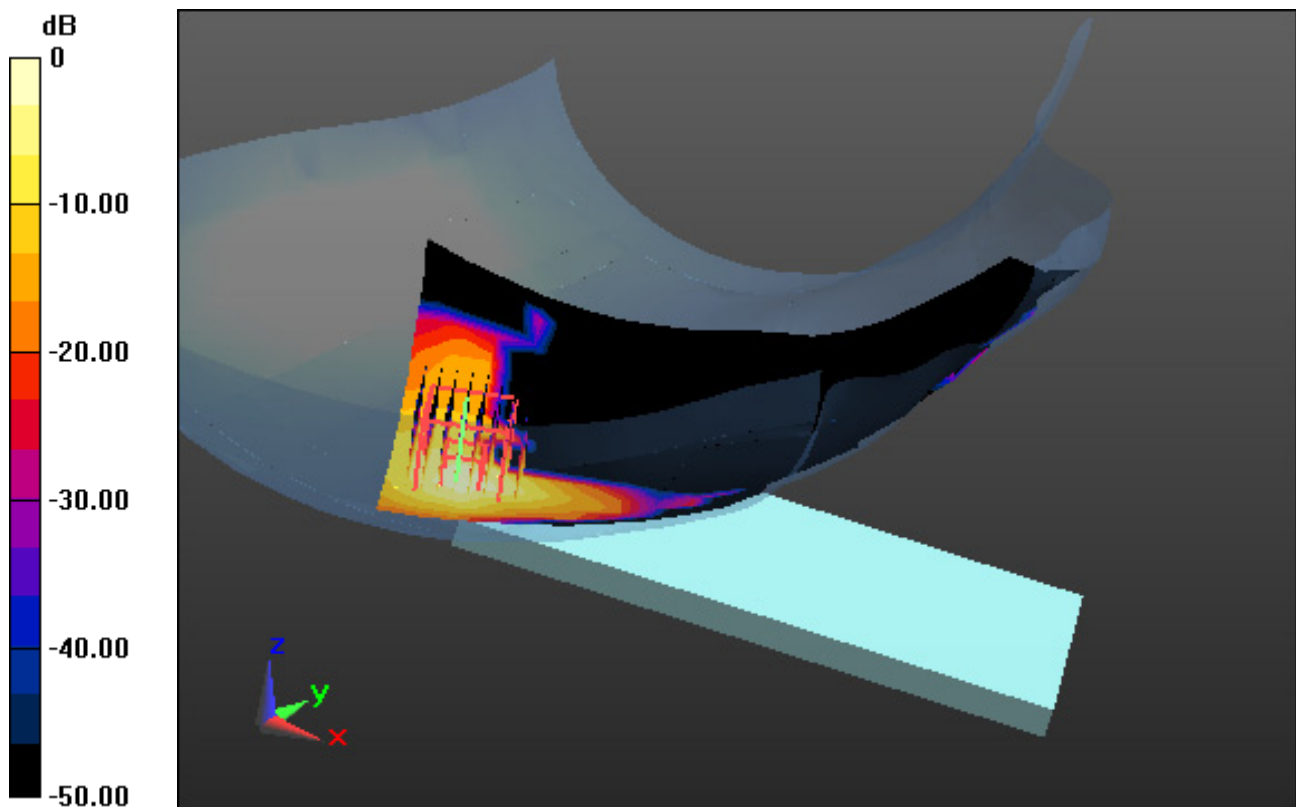
**Area Scan (13x21x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

**Zoom Scan (8x8x7)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=1.4\text{mm}$ , Graded Ratio: 1.4

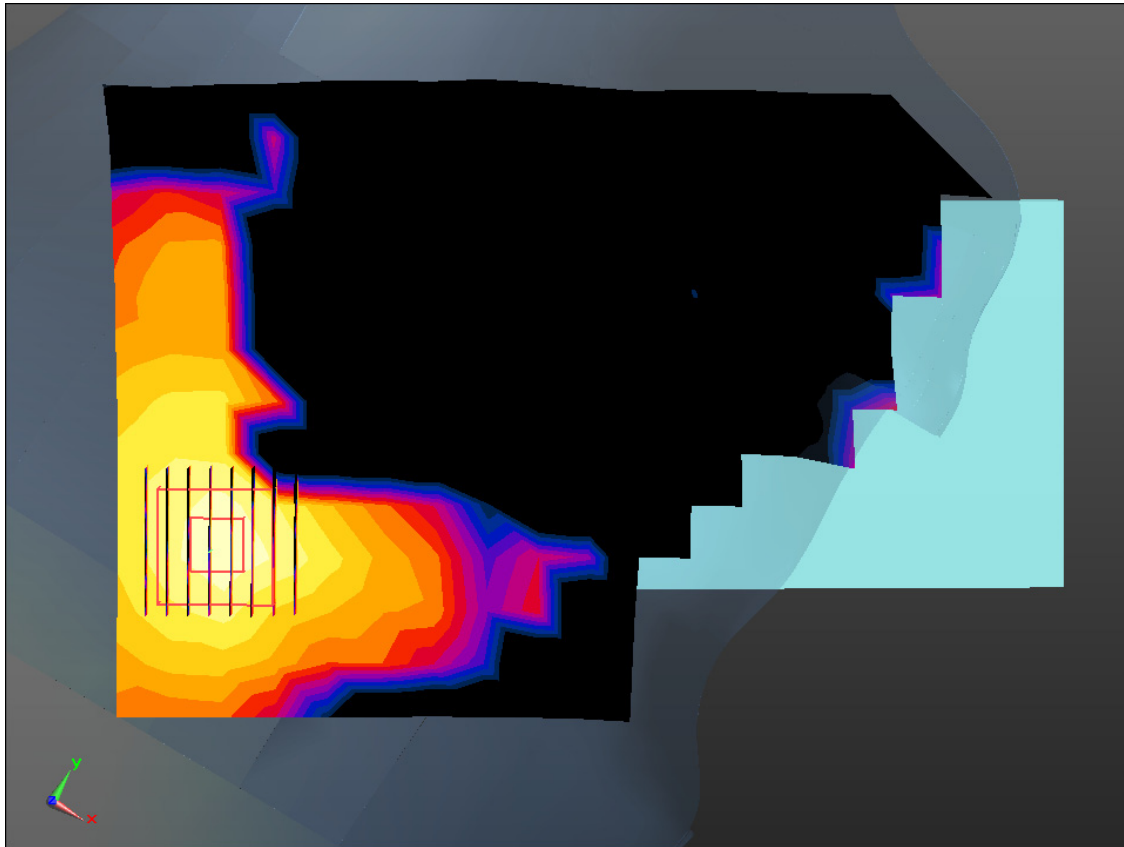
Power Drift = -0.15 dB

Peak SAR (extrapolated) = 2.20 W/kg

**SAR(1 g) = 0.513 W/kg; SAR(10 g) = 0.152 W/kg**



0 dB = 1.28 W/kg



Enlarged Plot for A9

## DT&C Co., Ltd.

**DUT: LM-X525EAW; Type: Bar**

Communication System: UID 0, W-LAN 5G (0); Frequency: 5745 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5745 \text{ MHz}$ ;  $\sigma = 5.212 \text{ S/m}$ ;  $\epsilon_r = 34.794$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3916; ConvF(4.94, 4.94, 4.94); Calibrated: 4/25/2018; Electronics: DAE4 Sn1391

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:1837

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-03-29; Ambient Temp: 20.7; Tissue Temp: 20.9

**Right Tilt, WLAN(802.11a) Ch. 149, Ant Internal, Standard Battery**

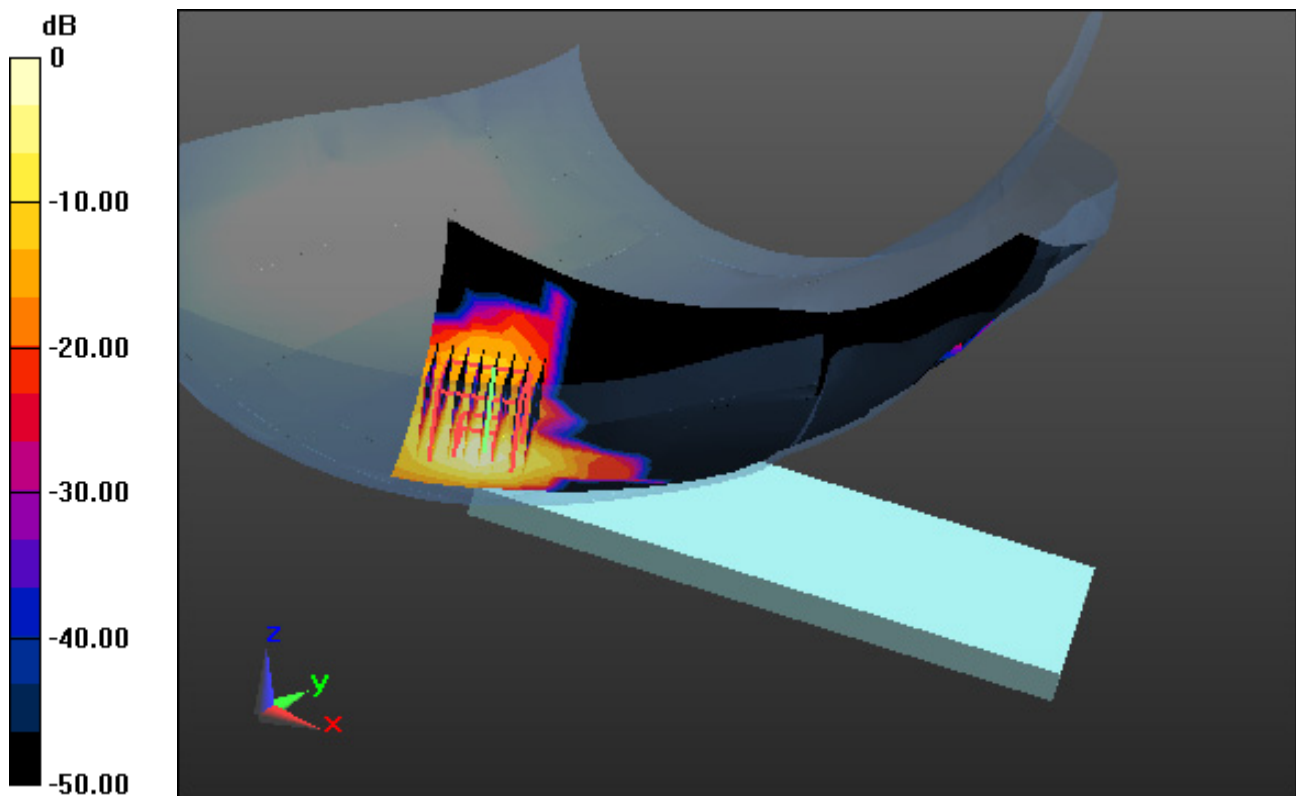
**Area Scan (13x21x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

**Zoom Scan (8x8x7)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=1.4\text{mm}$ , Graded Ratio: 1.4

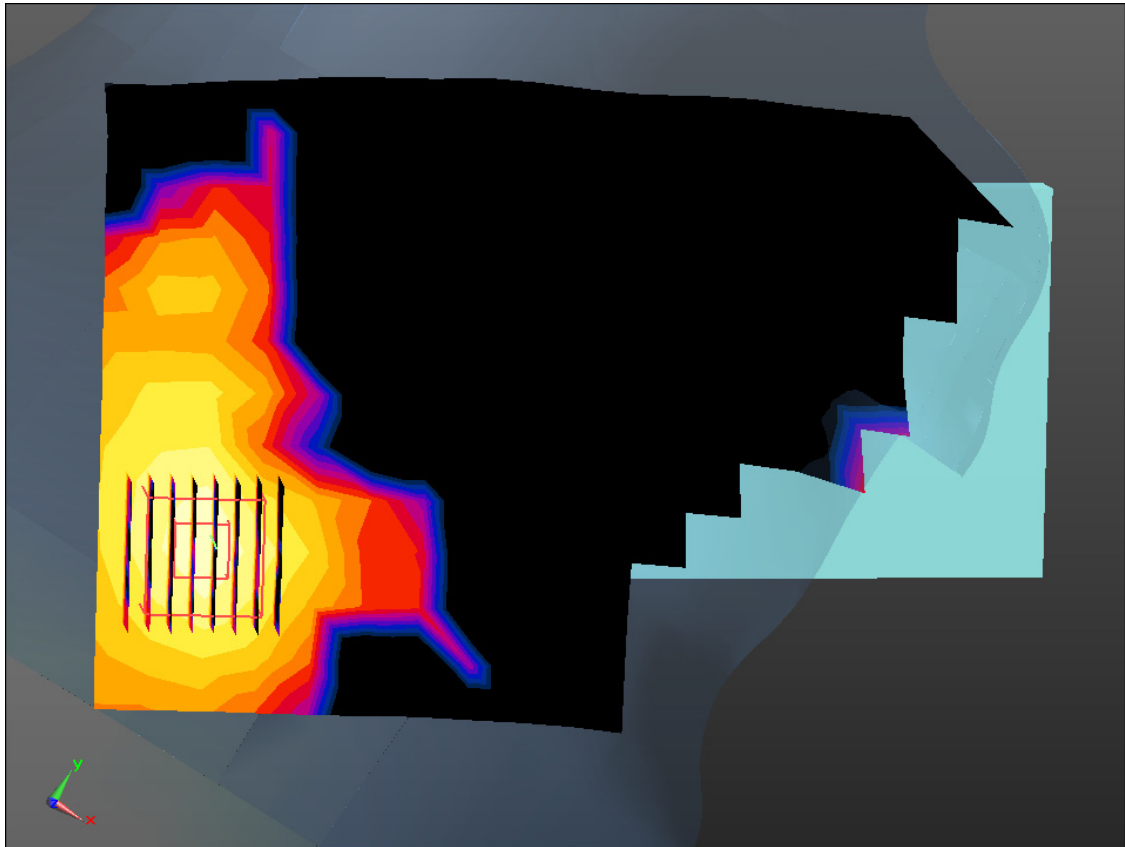
Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.77 W/kg

**SAR(1 g) = 0.385 W/kg; SAR(10 g) = 0.111 W/kg**



0 dB = 0.976 W/kg



Enlarged Plot for A10

## DT&C Co., Ltd.

### **DUT: LM-X525EAW; Type: Bar**

Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz; Duty Cycle: 1:1.3

Medium parameters used:  $f = 2441$  MHz;  $\sigma = 1.806$  S/m;  $\epsilon_r = 39.946$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

#### **DASY5 Configuration:**

Probe: EX3DV4 - SN3933; ConvF(7.61, 7.61, 7.61); Calibrated: 9/25/2018; Electronics: DAE4 Sn1396

Sensor-Surface: 2mm (Mechanical Surface Detection)

Phantom: SAM with CRP\_2016\_07\_22\_middle; Type: QD000P40CD; Serial: TP:1786

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-03-25; Ambient Temp: 20.4; Tissue Temp: 20.8

### **Right Touch, Bluetooth BDR 1M Ch. 39, Ant Internal, Standard Battery**

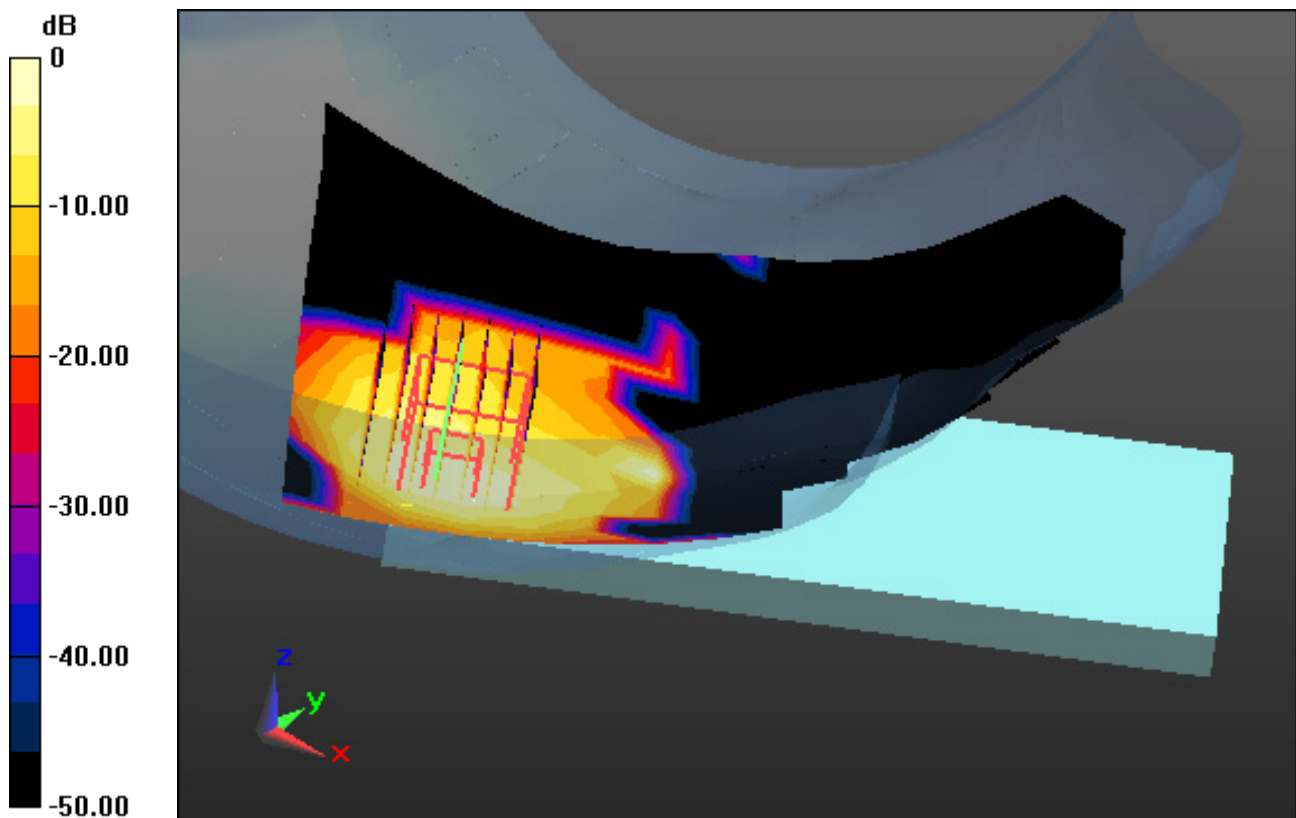
**Area Scan (11x17x1):** Measurement grid: dx=12mm, dy=12mm

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

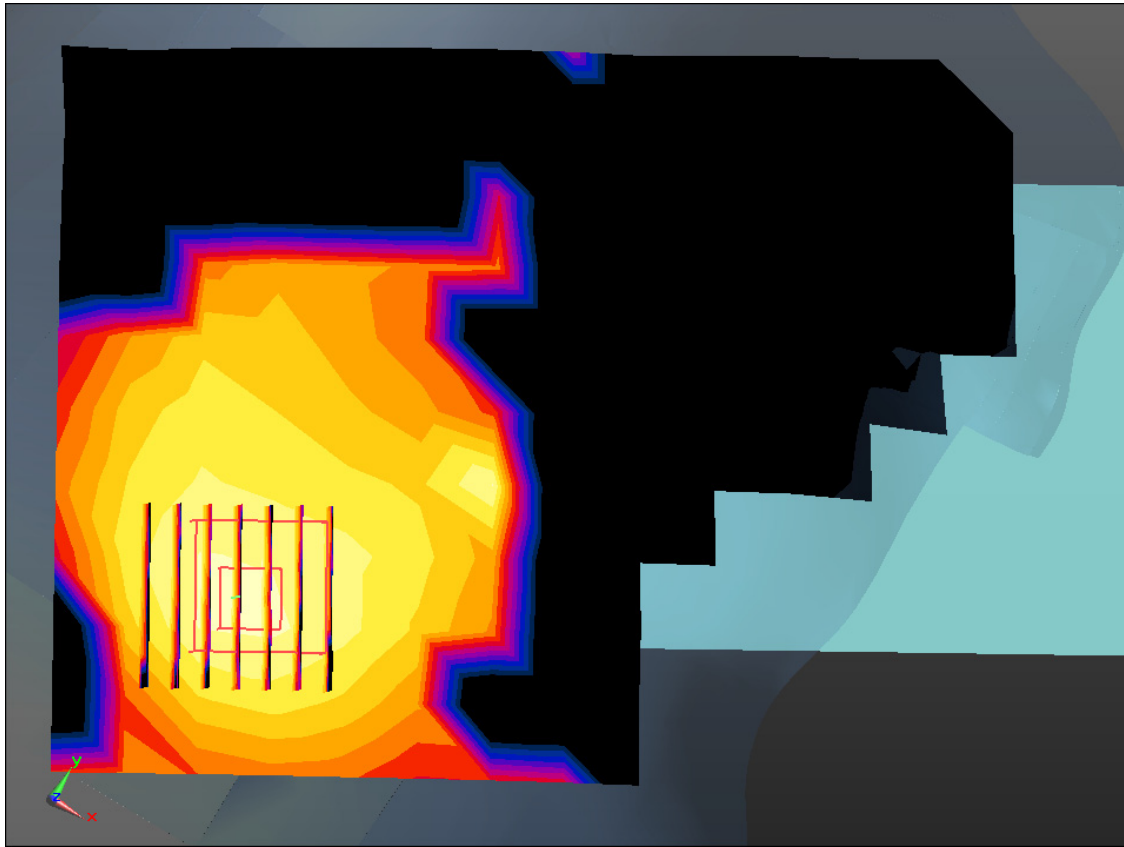
Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.202 W/kg

**SAR(1 g) = 0.084 W/kg; SAR(10 g) = 0.037 W/kg**



0 dB = 0.136 W/kg



Enlarged Plot for A11

## DT&C Co., Ltd.

**DUT: LM-X525EAW; Type: Bar**

Communication System: UID 0, GSM 850 (0); Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used:  $f = 836.6$  MHz;  $\sigma = 0.992$  S/m;  $\epsilon_r = 54.653$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: ES3DV3 - SN3327; ConvF(6.24, 6.24, 6.24); Calibrated: 8/28/2018; Electronics: DAE3 Sn520

Sensor-Surface: 3mm (Mechanical Surface Detection)

Phantom: SAM-twin right\_2013\_09\_24; Type: QD000P40CD; Serial: TP:1783

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-04-01; Ambient Temp: 21.4; Tissue Temp: 21.6

**1cm space from Body, Rear, GSM850 Ch. 190, Ant Internal**

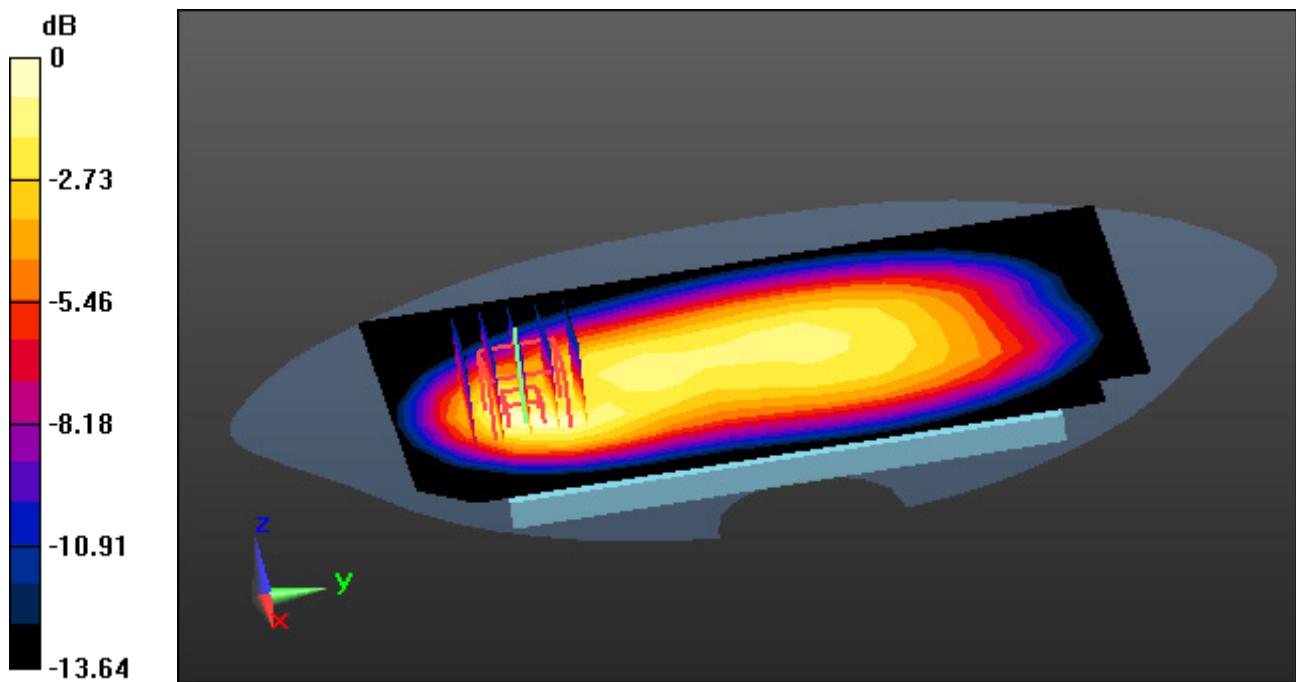
**Area Scan (10x15x1):** Measurement grid: dx=15mm, dy=15mm

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

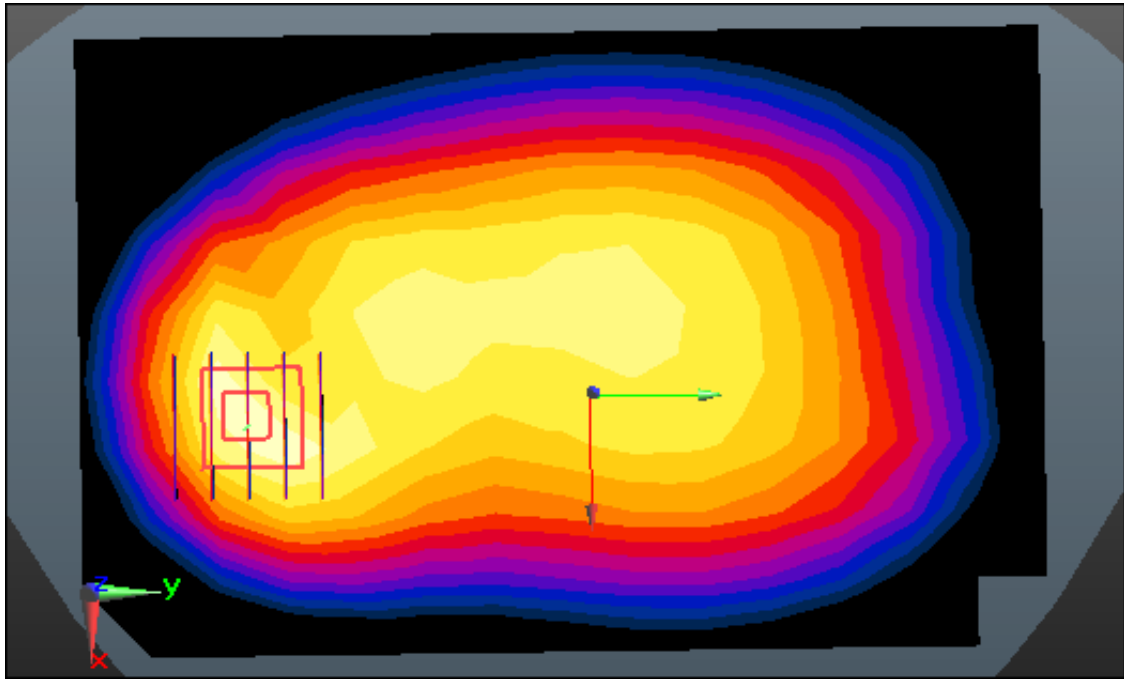
Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.785 W/kg

SAR(1 g) = 0.464 W/kg; SAR(10 g) = 0.275 W/kg



0 dB = 0.560 W/kg



Enlarged Plot for A12

## DT&C Co., Ltd.

**DUT: LM-X525EAW; Type: Bar**

Communication System: UID 0, GSM 850\_4 Tx (0); Frequency: 836.6 MHz; Duty Cycle: 1:2.075

Medium parameters used:  $f = 836.6$  MHz;  $\sigma = 0.992$  S/m;  $\epsilon_r = 54.653$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: ES3DV3 - SN3327; ConvF(6.24, 6.24, 6.24); Calibrated: 8/28/2018; Electronics: DAE3 Sn520

Sensor-Surface: 3mm (Mechanical Surface Detection)

Phantom: SAM-twin right\_2013\_09\_24; Type: QD000P40CD; Serial: TP:1783

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-04-01; Ambient Temp: 21.4; Tissue Temp: 21.6

**1cm space from Body, Rear, GSM850 GPRS 4Tx Ch. 190, Ant Internal**

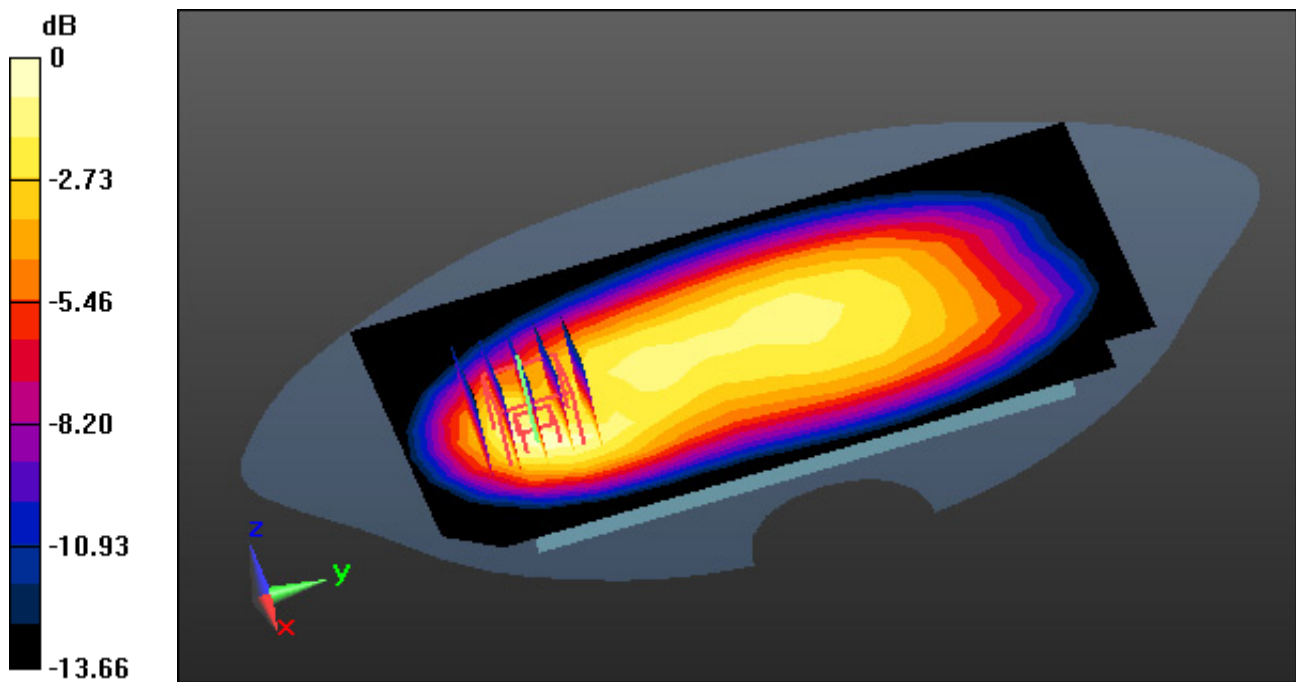
**Area Scan (10x15x1):** Measurement grid: dx=15mm, dy=15mm

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

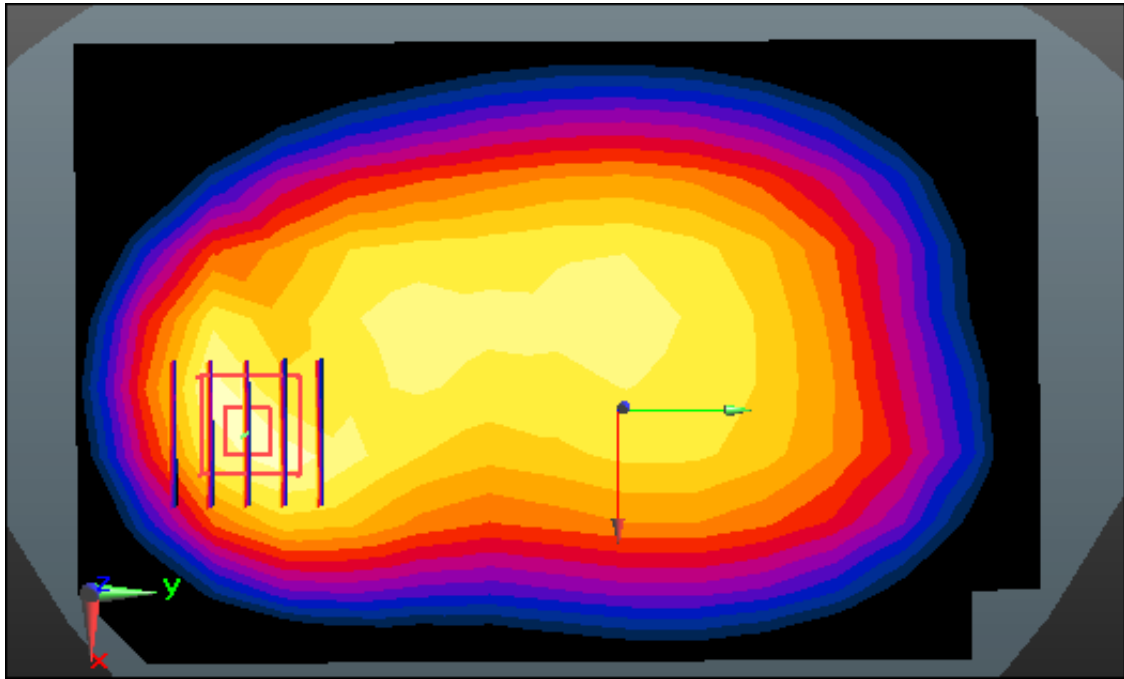
Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.936 W/kg

SAR(1 g) = 0.545 W/kg; SAR(10 g) = 0.323 W/kg



0 dB = 0.665 W/kg



Enlarged Plot for A13

## DT&C Co., Ltd.

**DUT: LM-X525EAW; Type: Bar**

Communication System: UID 0, PCS 1900 (0); Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.514$  S/m;  $\epsilon_r = 55.191$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: ES3DV3 - SN3327; ConvF(4.91, 4.91, 4.91); Calibrated: 8/28/2018; Electronics: DAE3 Sn520

Sensor-Surface: 3mm (Mechanical Surface Detection)

Phantom: SAM-twin right\_2013\_09\_24; Type: QD000P40CD; Serial: TP:1783

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-04-03; Ambient Temp: 21.6; Tissue Temp: 21.5

**1cm space from Body, Rear, PCS1900 Ch. 661, Ant Internal**

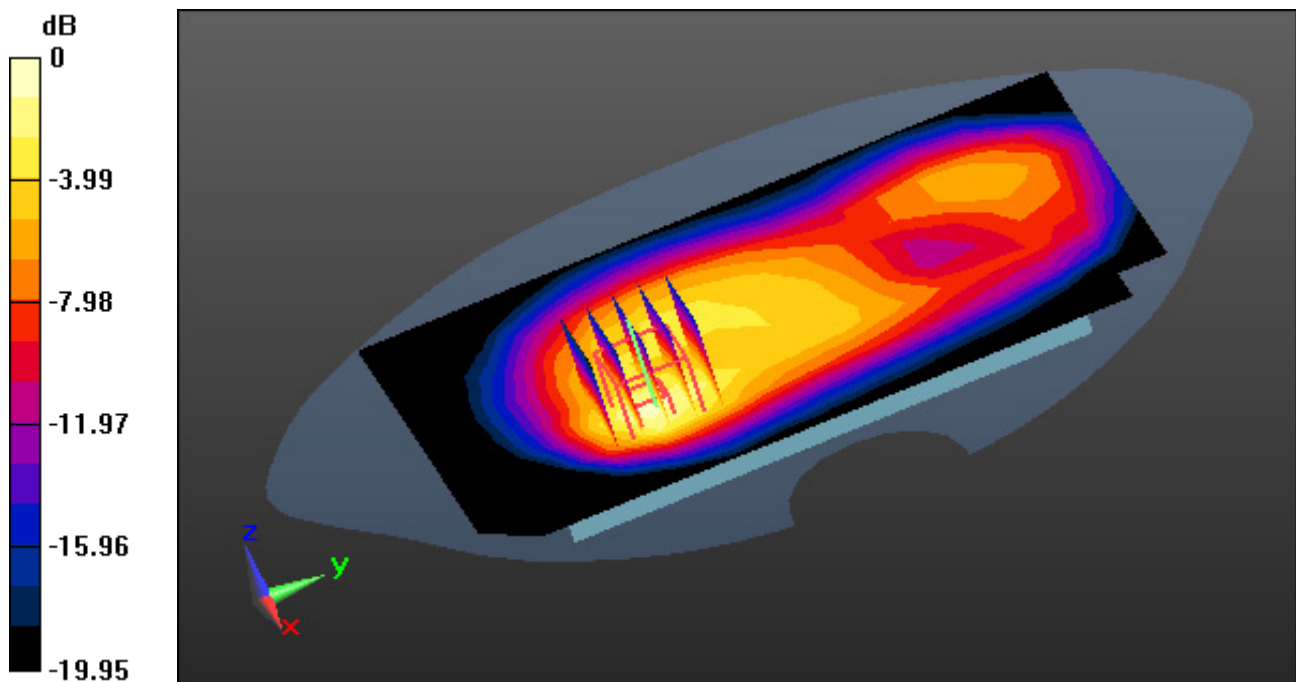
**Area Scan (10x15x1):** Measurement grid: dx=15mm, dy=15mm

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

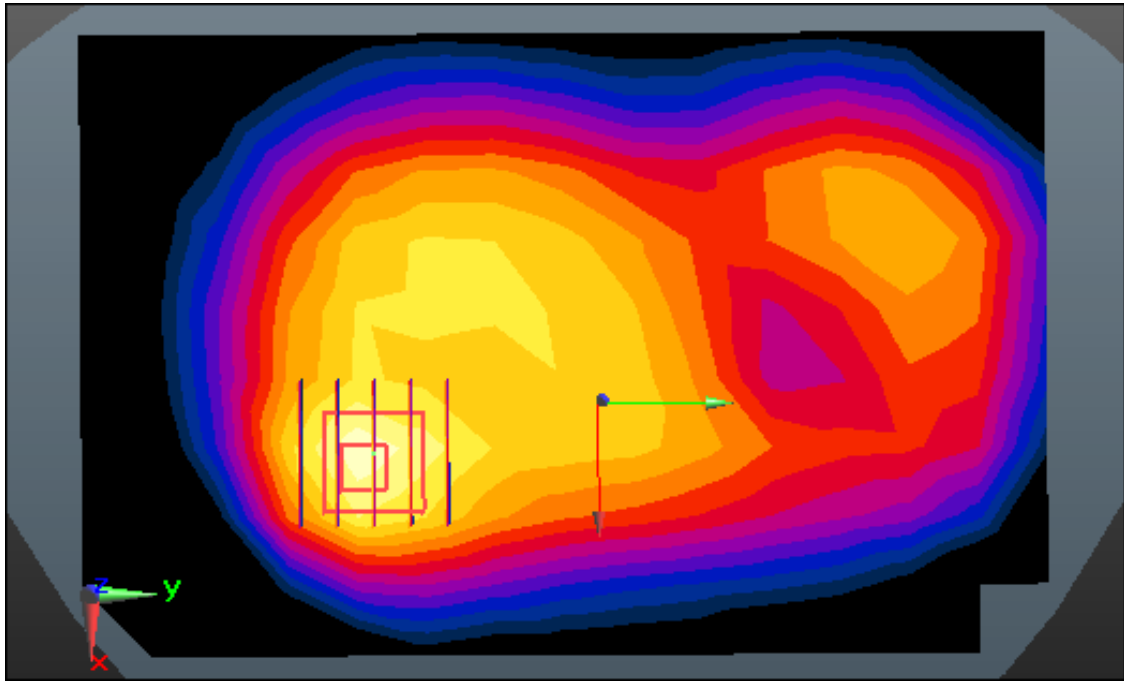
Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.743 W/kg

SAR(1 g) = 0.394 W/kg; SAR(10 g) = 0.198 W/kg



0 dB = 0.477 W/kg



Enlarged Plot for A14

## DT&C Co., Ltd.

**DUT: LM-X525EAW; Type: Bar**

Communication System: UID 0, PCS1900\_4 Tx (0); Frequency: 1880 MHz; Duty Cycle: 1:2.075

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.514$  S/m;  $\epsilon_r = 55.191$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: ES3DV3 - SN3327; ConvF(4.91, 4.91, 4.91); Calibrated: 8/28/2018; Electronics: DAE3 Sn520

Sensor-Surface: 3mm (Mechanical Surface Detection)

Phantom: SAM-twin right\_2013\_09\_24; Type: QD000P40CD; Serial: TP:1783

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-04-03; Ambient Temp: 21.6; Tissue Temp: 21.5

**1cm space from Body, Rear, PCS1900 GPRS 4Tx Ch. 661, Ant Internal**

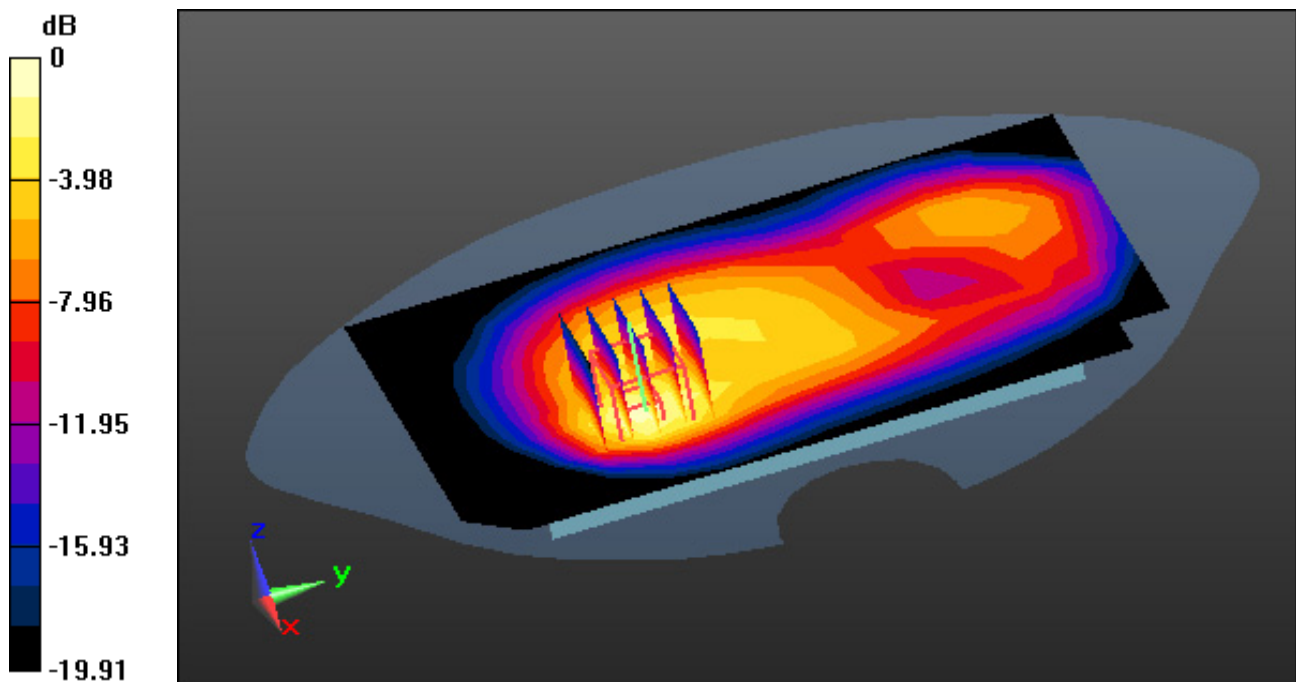
**Area Scan (10x15x1):** Measurement grid: dx=15mm, dy=15mm

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

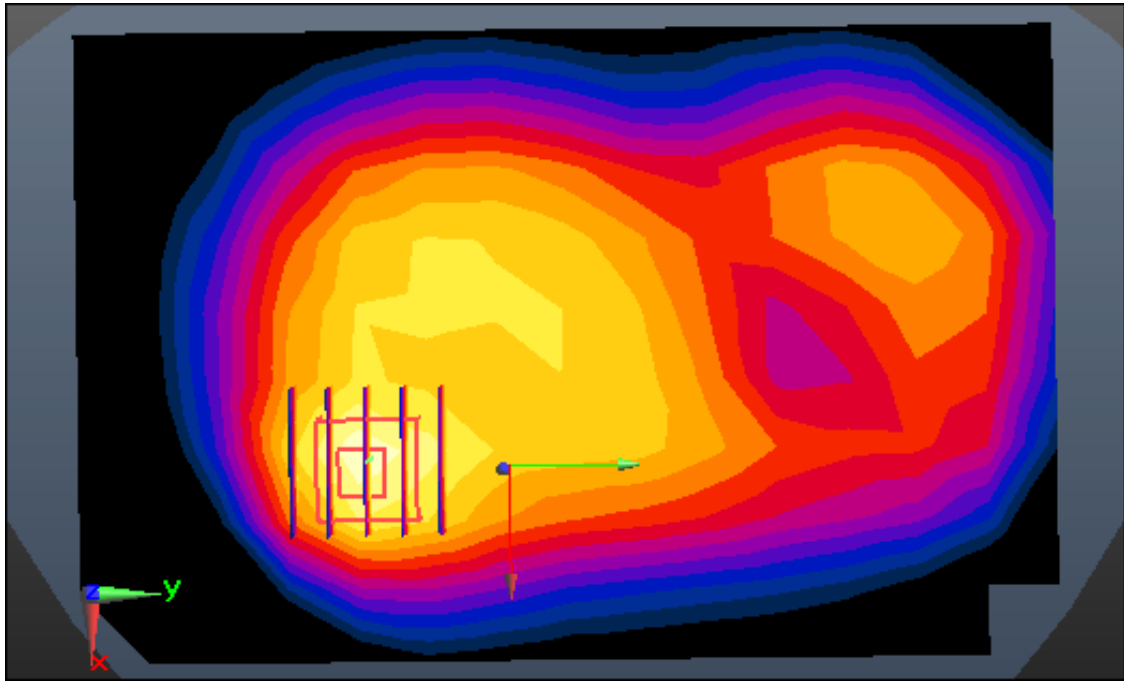
Power Drift = -0.10 dB

Peak SAR (extrapolated) = 1.04 W/kg

SAR(1 g) = 0.551 W/kg; SAR(10 g) = 0.277 W/kg



0 dB = 0.671 W/kg



Enlarged Plot for A15

## DT&C Co., Ltd.

**DUT: LM-X525EAW; Type: Bar**

Communication System: UID 0, WCDMA 850 (0); Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 836.6$  MHz;  $\sigma = 0.991$  S/m;  $\epsilon_r = 54.571$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: ES3DV3 - SN3327; ConvF(6.24, 6.24, 6.24); Calibrated: 8/28/2018; Electronics: DAE3 Sn520

Sensor-Surface: 3mm (Mechanical Surface Detection)

Phantom: SAM-twin right\_2013\_09\_24; Type: QD000P40CD; Serial: TP:1783

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-04-02; Ambient Temp: 21.2; Tissue Temp: 21.6

**1cm space from Body, Rear, WCDMA850 Ch. 4183, Ant Internal**

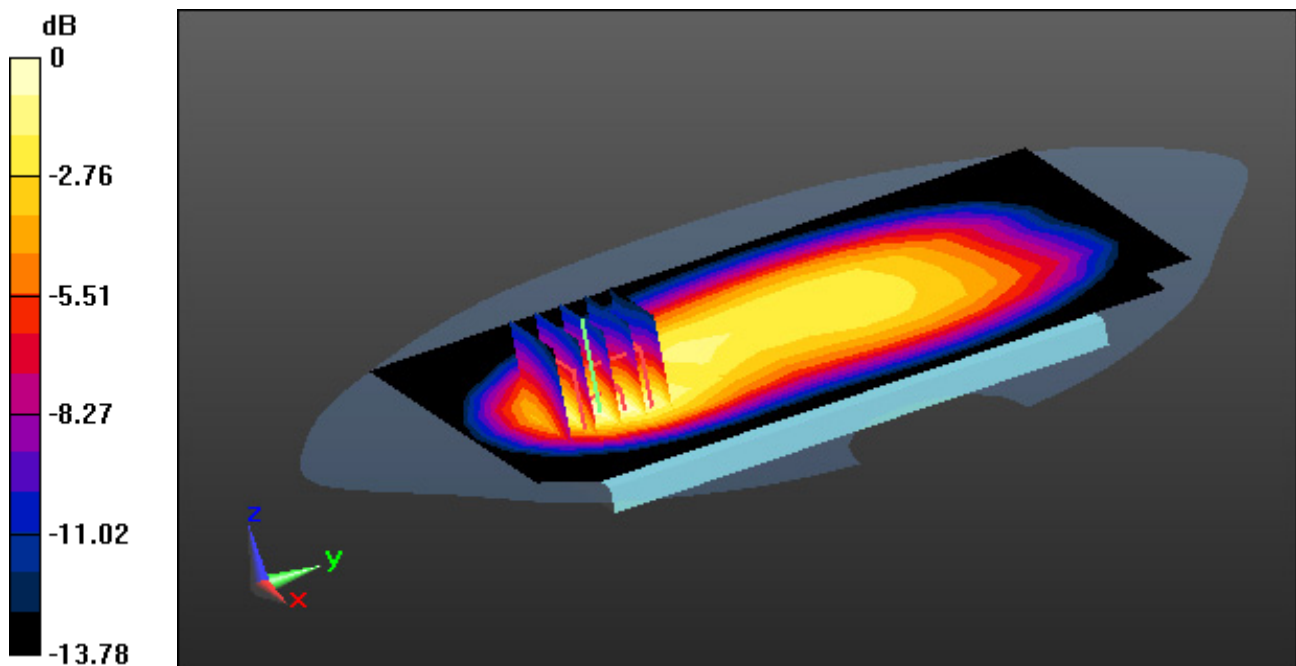
**Area Scan (10x15x1):** Measurement grid: dx=15mm, dy=15mm

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

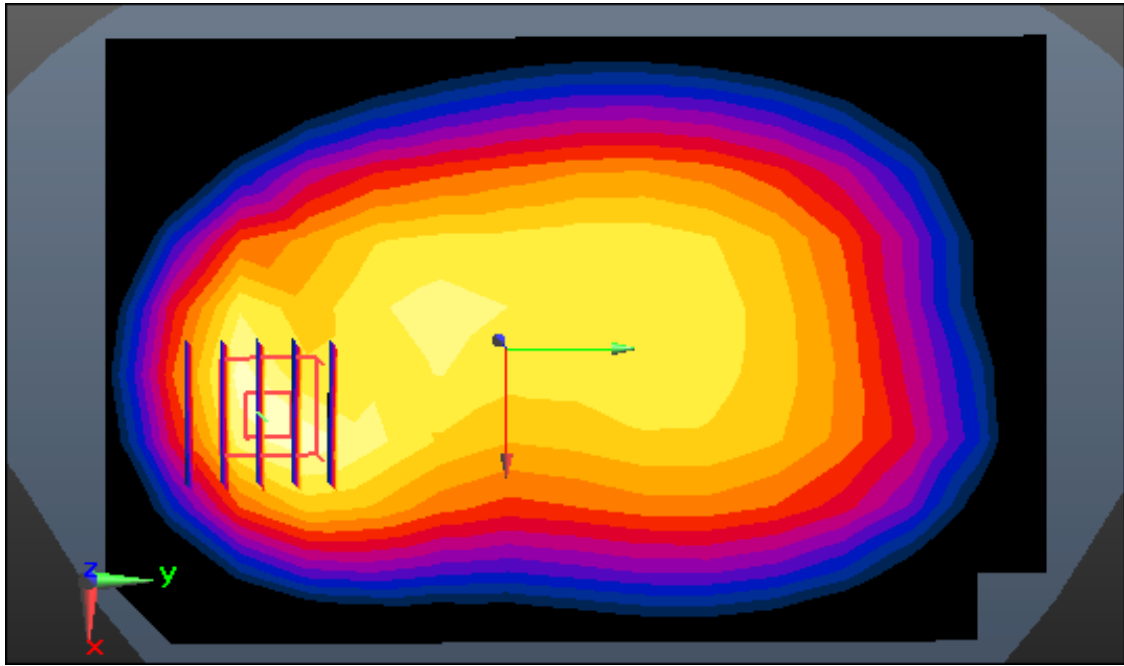
Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.611 W/kg; SAR(10 g) = 0.361 W/kg



0 dB = 0.742 W/kg



Enlarged Plot for A16

## DT&C Co., Ltd.

**DUT: LM-X525EAW; Type: Bar**

Communication System: UID 0, WCDMA 1900 (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.513$  S/m;  $\epsilon_r = 55.252$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: ES3DV3 - SN3327; ConvF(4.91, 4.91, 4.91); Calibrated: 8/28/2018; Electronics: DAE3 Sn520

Sensor-Surface: 3mm (Mechanical Surface Detection)

Phantom: SAM-twin right\_2013\_09\_24; Type: QD000P40CD; Serial: TP:1783

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-04-04; Ambient Temp: 21.3; Tissue Temp: 21.5

**1cm space from Body, Rear, WCDMA1900 Ch. 9400, Ant Internal**

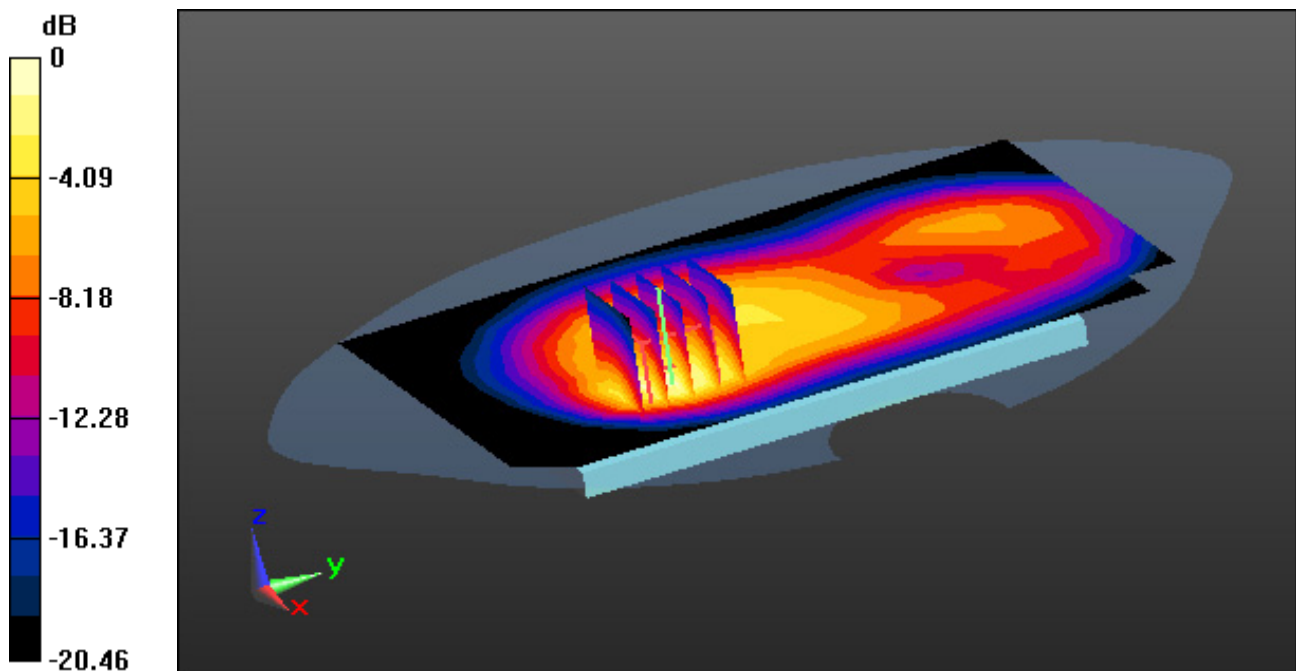
**Area Scan (10x15x1):** Measurement grid: dx=15mm, dy=15mm

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

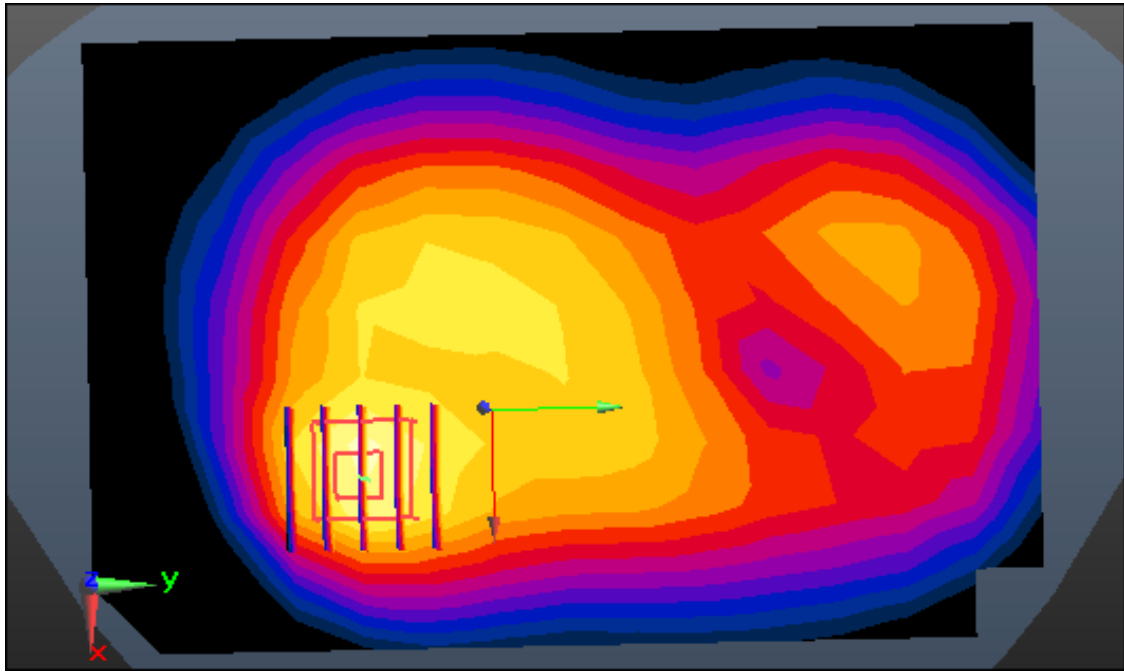
Power Drift = -0.15 dB

Peak SAR (extrapolated) = 1.49 W/kg

SAR(1 g) = 0.790 W/kg; SAR(10 g) = 0.403 W/kg



0 dB = 0.984 W/kg



Enlarged Plot for A17

## DT&C Co., Ltd.

**DUT: LM-X525EAW; Type: Bar**

Communication System: UID 0, 2.4 GHz W-LAN (0); Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2437 \text{ MHz}$ ;  $\sigma = 1.963 \text{ S/m}$ ;  $\epsilon_r = 53.573$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3933; ConvF(7.75, 7.75, 7.75); Calibrated: 9/25/2018; Electronics: DAE4 Sn1396

Sensor-Surface: 2mm (Mechanical Surface Detection)

Phantom: SAM with CRP\_2016\_07\_22\_middle; Type: QD000P40CD; Serial: TP:1786

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-03-25; Ambient Temp: 20.4; Tissue Temp: 21.0

**1 cm space form Body, Rear, WLAN(802.11b) Ch. 6, Ant Internal**

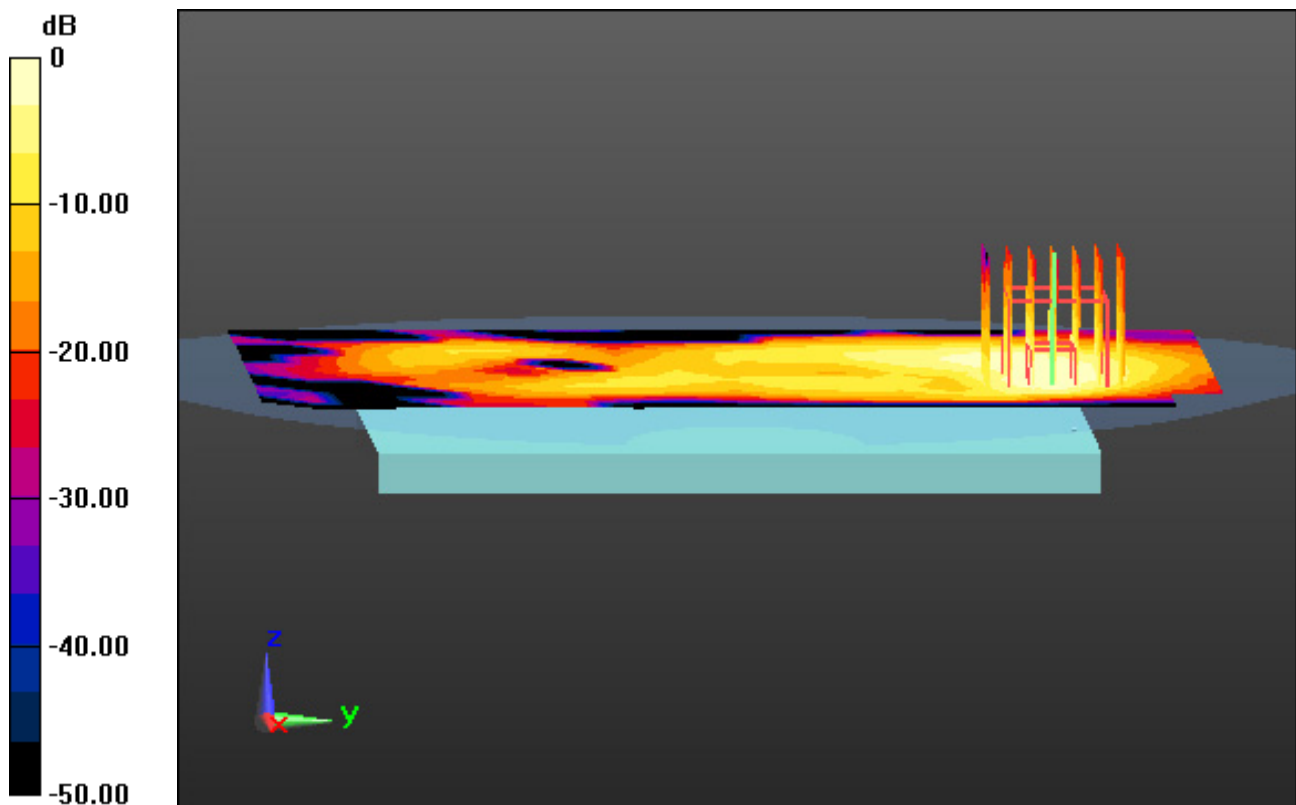
**Area Scan (12x19x1):** Measurement grid:  $dx=12\text{mm}$ ,  $dy=12\text{mm}$

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

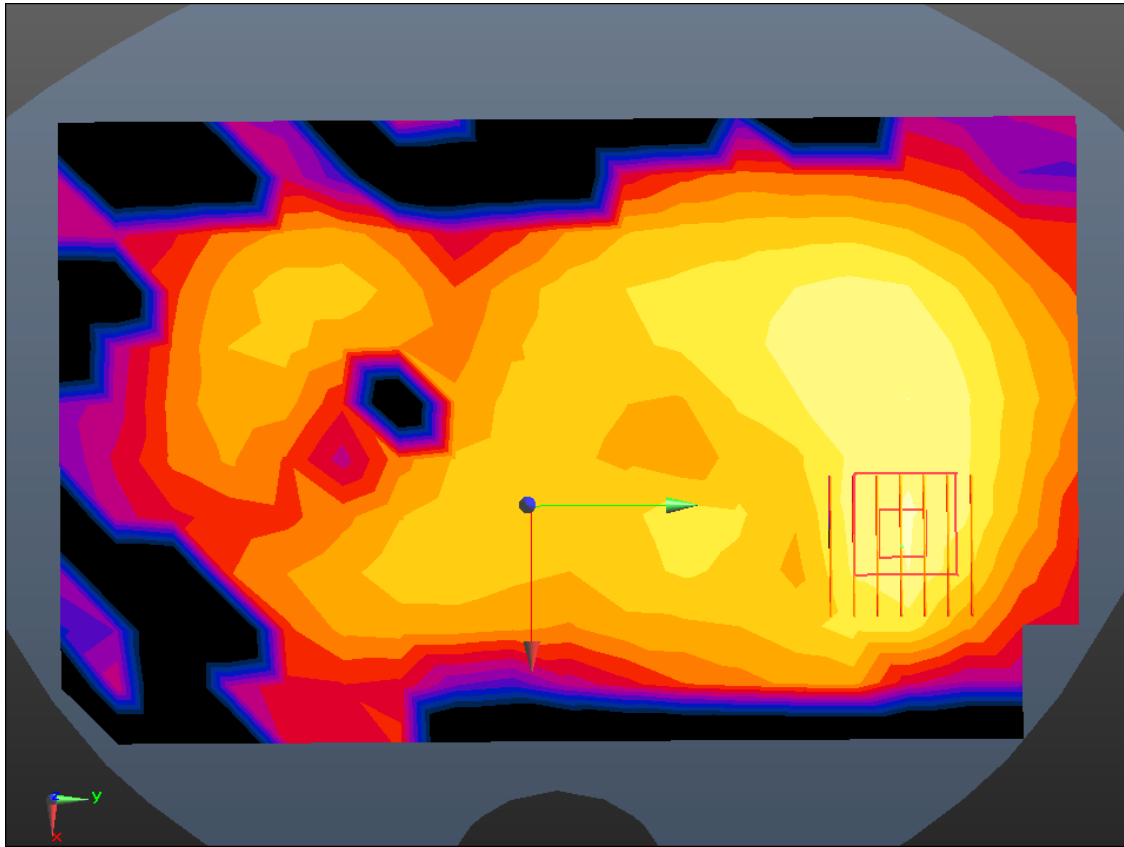
Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.270 W/kg

**SAR(1 g) = 0.127 W/kg; SAR(10 g) = 0.060 W/kg**



0 dB = 0.194 W/kg



Enlarged Plot for A18

## DT&C Co., Ltd.

**DUT: LM-X525EAW; Type: Bar**

Communication System: UID 0, 00\_5GHz W-LAN (0); Frequency: 5320 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5320 \text{ MHz}$ ;  $\sigma = 5.599 \text{ S/m}$ ;  $\epsilon_r = 48.635$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3930; ConvF(4.47, 4.47, 4.47); Calibrated: 7/26/2018; Electronics: DAE4 Sn1335

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Phantom: Twin-SAM V5.0 ; Type: QD 000 P40 CD; Serial: 1679

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-03-27; Ambient Temp: 20.8; Tissue Temp: 21.2

**1 cm space form Body, Rear, WLAN(802.11a) Ch. 64, Ant Internal**

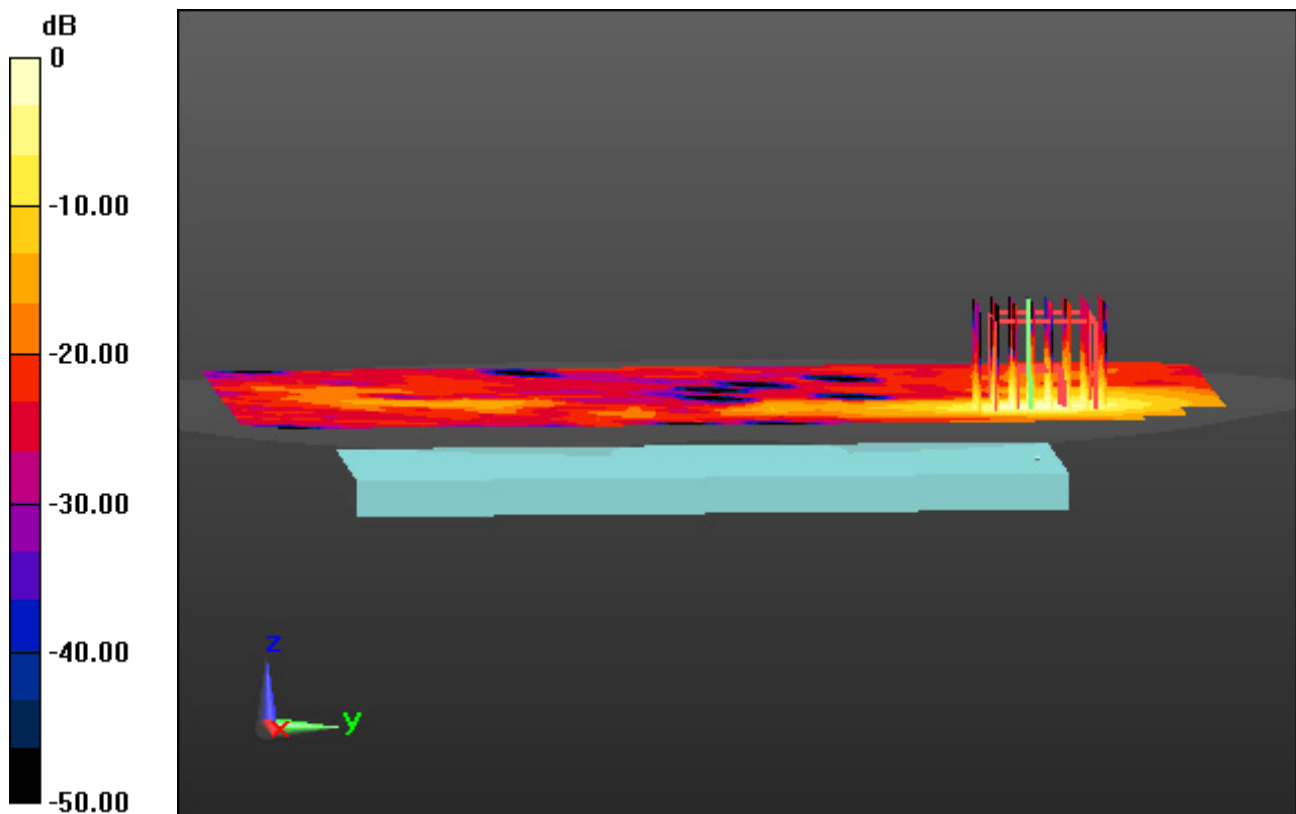
**Area Scan (15x23x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

**Zoom Scan (8x8x7)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=1.4\text{mm}$ , Graded Ratio: 1.4

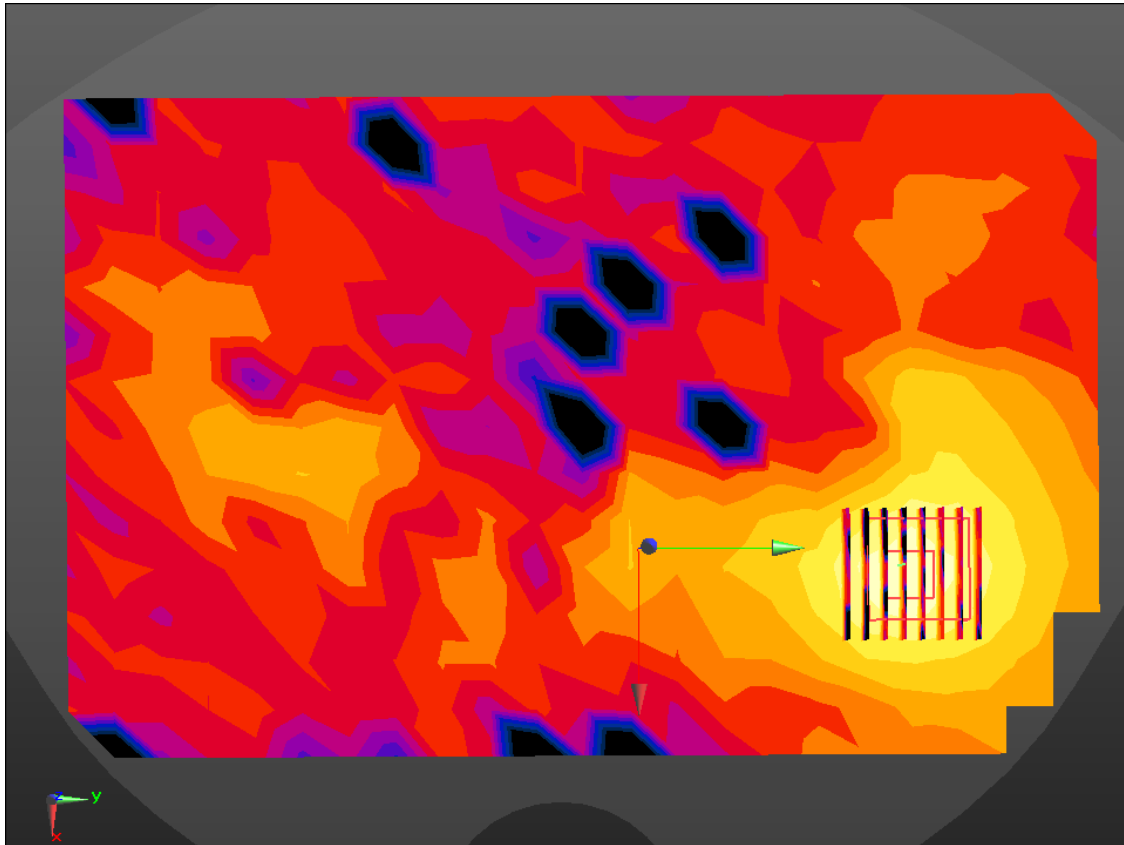
Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.43 W/kg

**SAR(1 g) = 0.371 W/kg; SAR(10 g) = 0.120 W/kg**



0 dB = 0.858 W/kg



Enlarged Plot for A19

## DT&C Co., Ltd.

**DUT: LM-X525EAW; Type: Bar**

Communication System: UID 0, W-LAN 5G (0); Frequency: 5660 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5660$  MHz;  $\sigma = 5.716$  S/m;  $\epsilon_r = 48.475$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3930; ConvF(4.09, 4.09, 4.09); Calibrated: 7/26/2018; Electronics: DAE4 Sn1335

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Phantom: Twin-SAM V5.0 ; Type: QD 000 P40 CD; Serial: 1679

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-03-28; Ambient Temp: 20.9; Tissue Temp: 21.0

**1 cm space form Body, Rear, WLAN(802.11a) Ch. 132, Ant Internal**

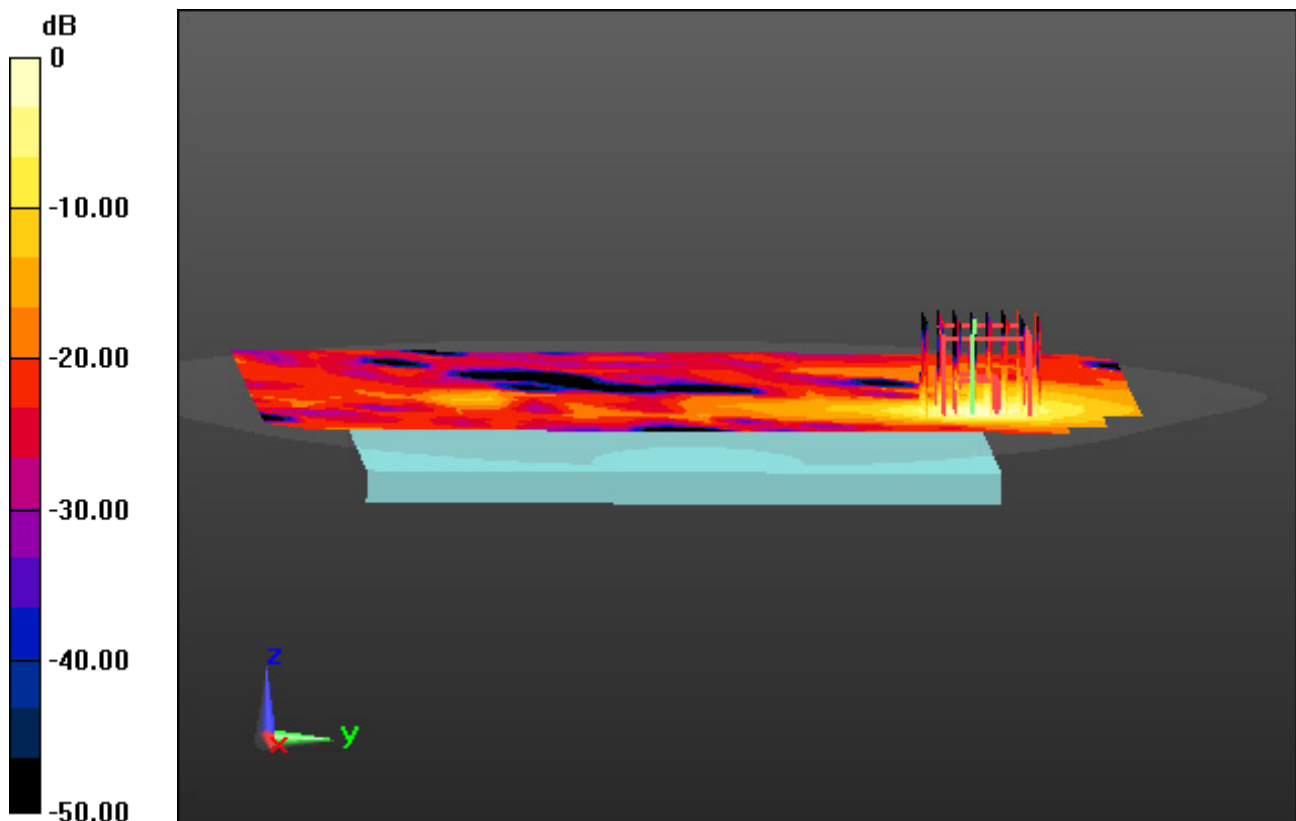
**Area Scan (15x23x1):** Measurement grid: dx=10mm, dy=10mm

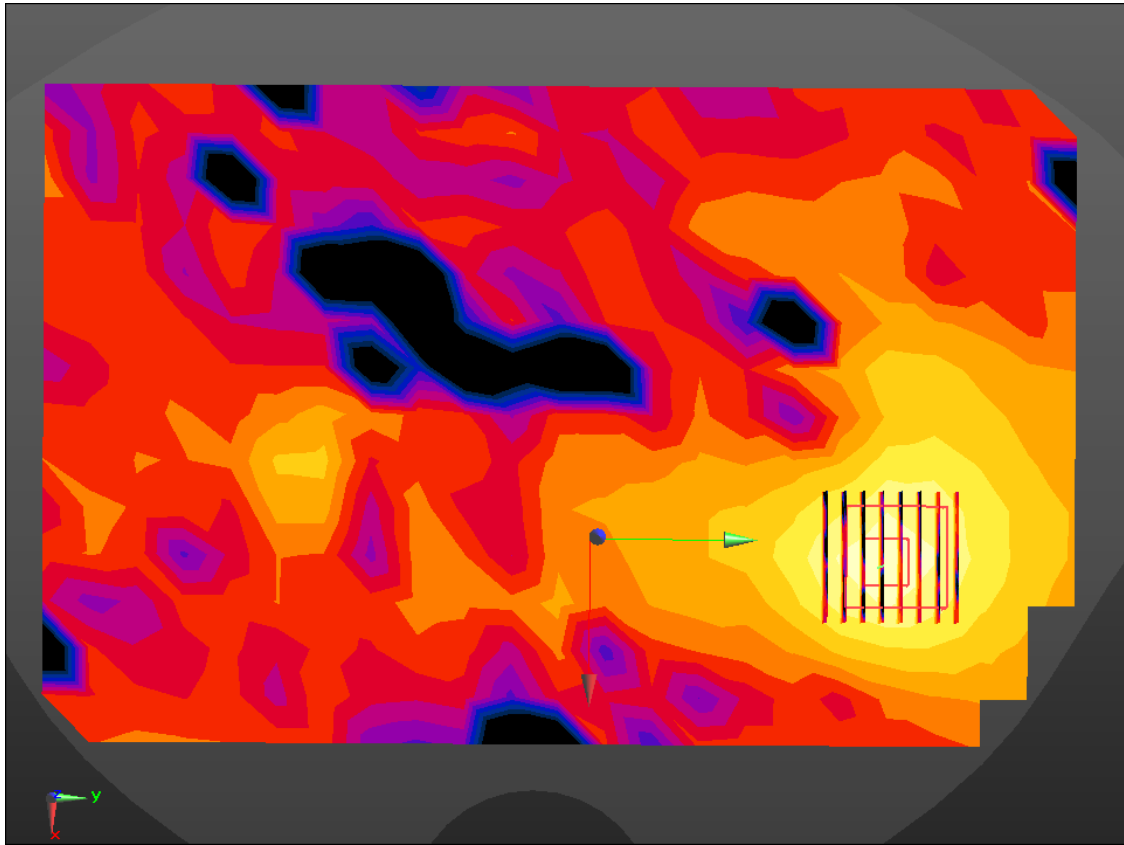
**Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm, Graded Ratio: 1.4

Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.52 W/kg

SAR(1 g) = 0.371 W/kg; SAR(10 g) = 0.118 W/kg





Enlarged Plot for A20

## DT&C Co., Ltd.

**DUT: LM-X525EAW; Type: Bar**

Communication System: UID 0, 00\_5GHz W-LAN (0); Frequency: 5745 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5745 \text{ MHz}$ ;  $\sigma = 5.807 \text{ S/m}$ ;  $\epsilon_r = 48.15$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3930; ConvF(4.14, 4.14, 4.14); Calibrated: 7/26/2018; Electronics: DAE4 Sn1335

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Phantom: Twin-SAM V5.0 ; Type: QD 000 P40 CD; Serial: 1679

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-03-29; Ambient Temp: 20.6; Tissue Temp: 20.9

**1 cm space form Body, Rear, WLAN(802.11a) Ch. 149, Ant Internal**

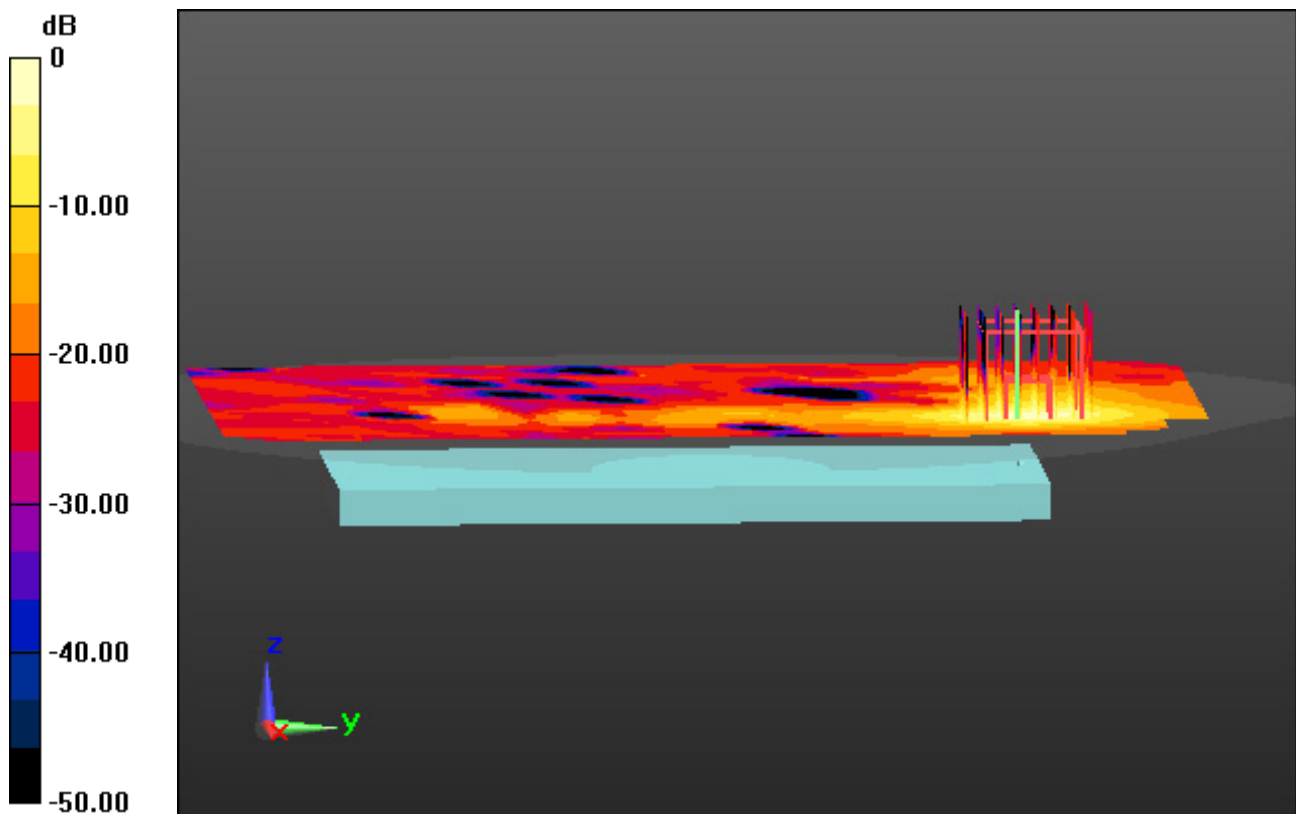
**Area Scan (15x23x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

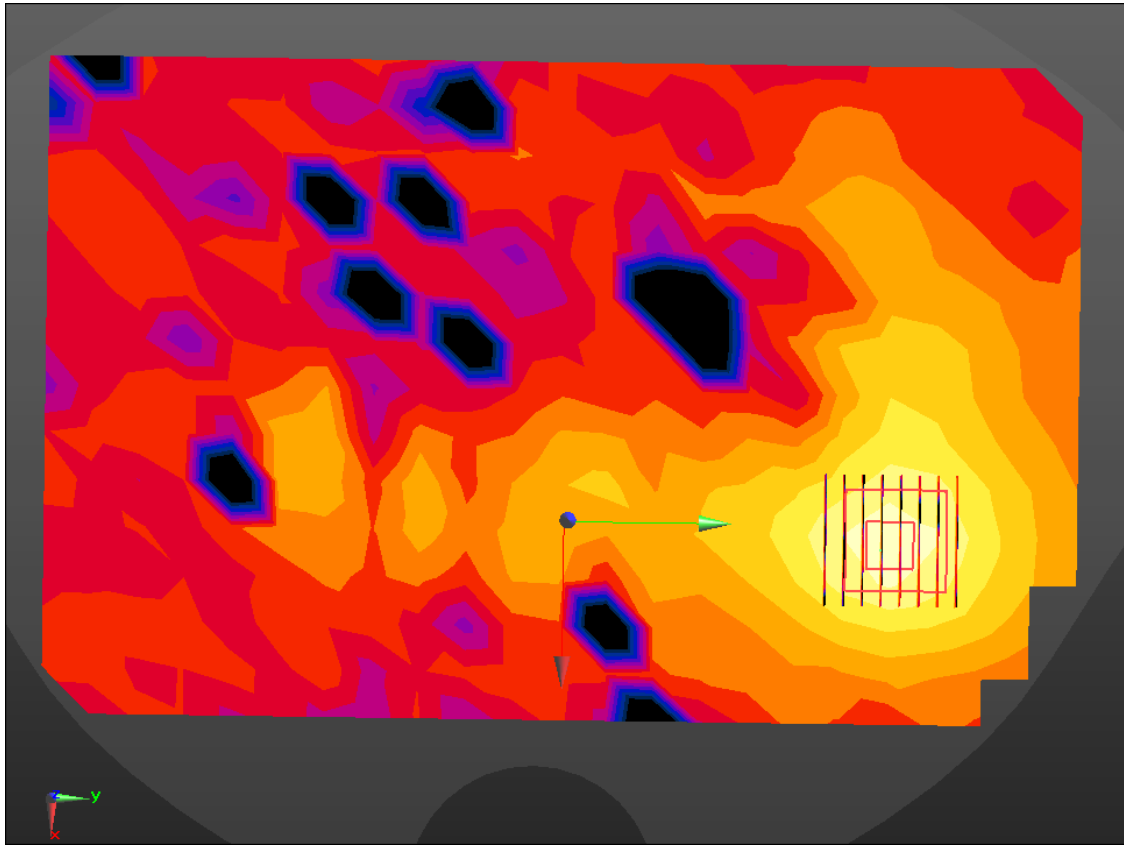
**Zoom Scan (8x8x7)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=1.4\text{mm}$ , Graded Ratio: 1.4

Power Drift = -0.11 dB

Peak SAR (extrapolated) = 1.82 W/kg

**SAR(1 g) = 0.404 W/kg; SAR(10 g) = 0.124 W/kg**





Enlarged Plot for A21

## DT&C Co., Ltd.

**DUT: LM-X525EAW; Type: Bar**

Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz; Duty Cycle: 1:1.3

Medium parameters used:  $f = 2441 \text{ MHz}$ ;  $\sigma = 1.968 \text{ S/m}$ ;  $\epsilon_r = 53.569$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3933; ConvF(7.75, 7.75, 7.75); Calibrated: 9/25/2018; Electronics: DAE4 Sn1396

Sensor-Surface: 2mm (Mechanical Surface Detection)

Phantom: SAM with CRP\_2016\_07\_22\_middle; Type: QD000P40CD; Serial: TP:1786

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-03-25; Ambient Temp: 20.4; Tissue Temp: 21.0

**1 cm space form Body, Rear, Bluetooth BDR 1M Ch. 39, Ant Internal**

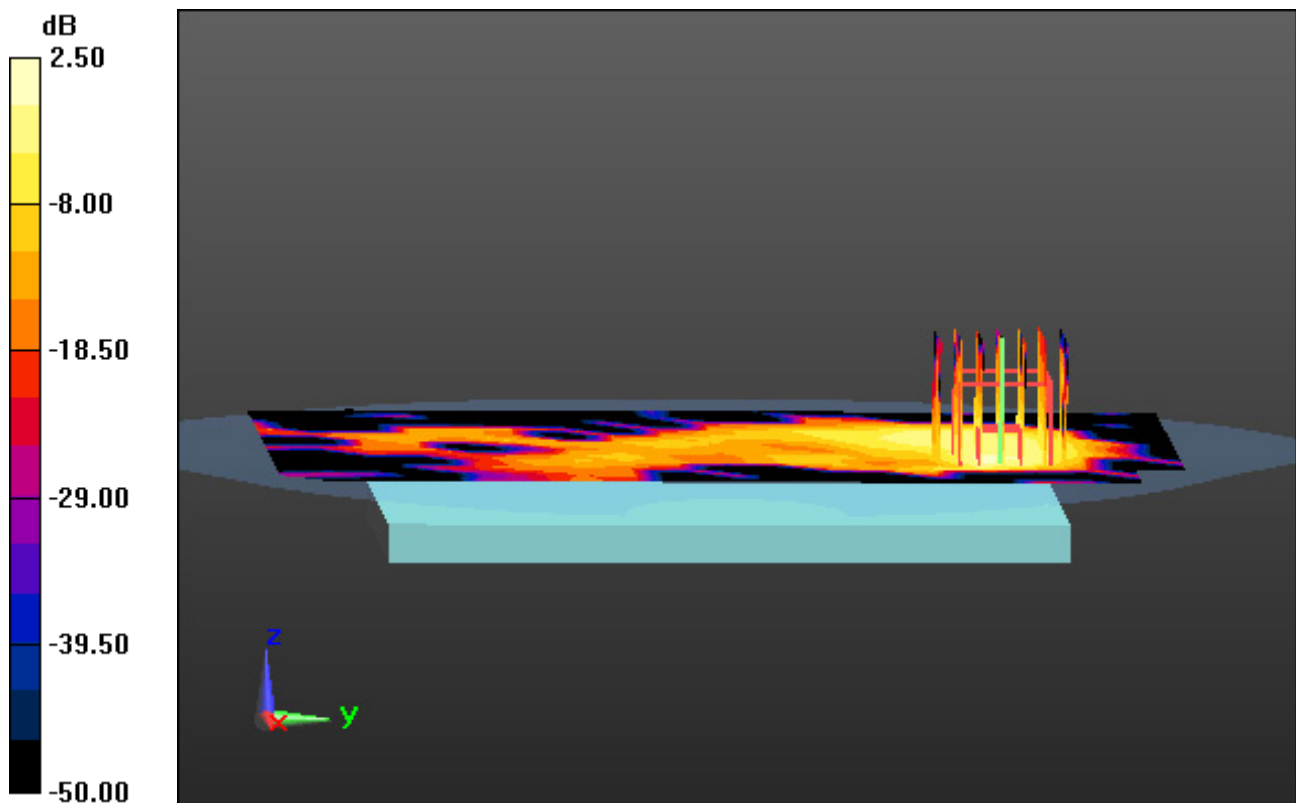
**Area Scan (12x19x1):** Measurement grid:  $dx=12\text{mm}$ ,  $dy=12\text{mm}$

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

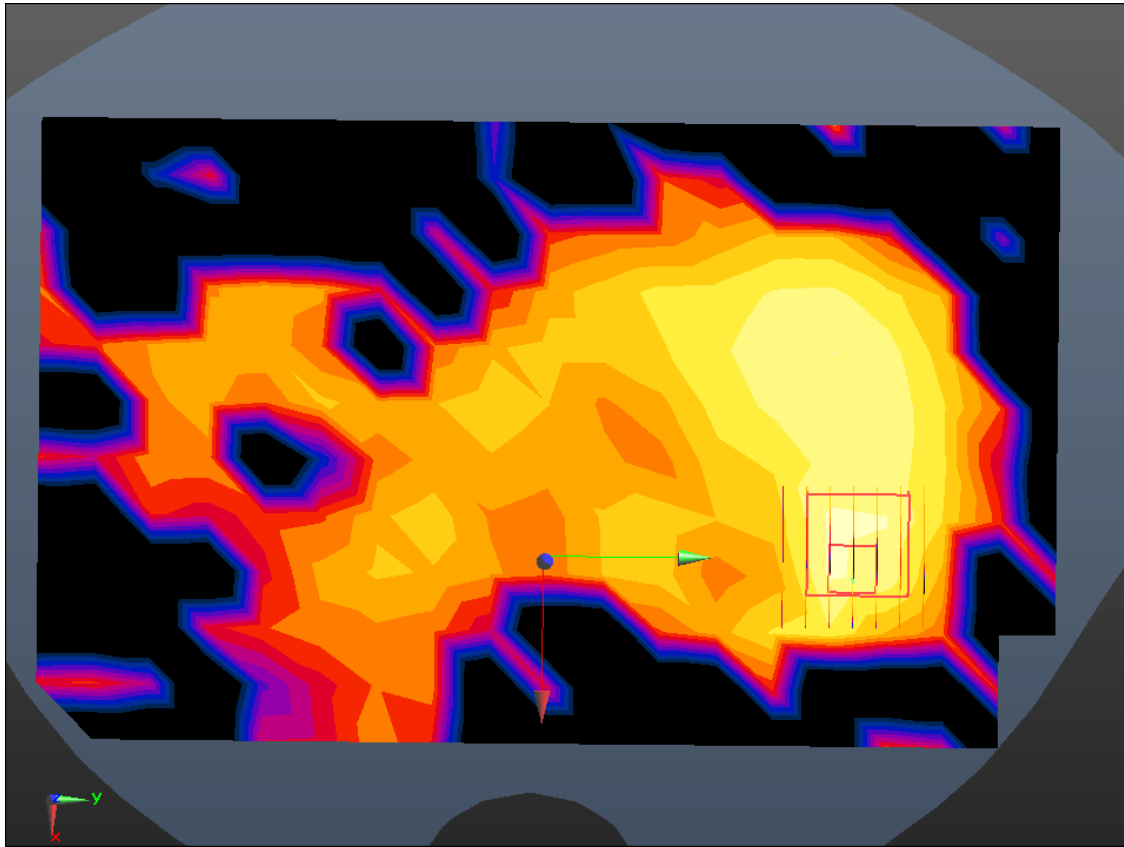
Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.0400 W/kg

**SAR(1 g) = 0.020 W/kg; SAR(10 g) = 0.00842 W/kg**



0 dB = 0.0291 W/kg



Enlarged Plot for A22

## DT&C Co., Ltd.

**DUT: LM-X525EAW; Type: Bar**

Communication System: UID 0, WCDMA 850 (0); Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 836.6 \text{ MHz}$ ;  $\sigma = 0.991 \text{ S/m}$ ;  $\epsilon_r = 54.571$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: ES3DV3 - SN3327; ConvF(6.24, 6.24, 6.24); Calibrated: 8/28/2018; Electronics: DAE3 Sn520

Sensor-Surface: 3mm (Mechanical Surface Detection)

Phantom: SAM-twin right\_2013\_09\_24; Type: QD000P40CD; Serial: TP:1783

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-04-02; Ambient Temp: 21.2; Tissue Temp: 21.6

**1cm space from Body, Right, WCDMA850 Ch. 4183, Ant Internal**

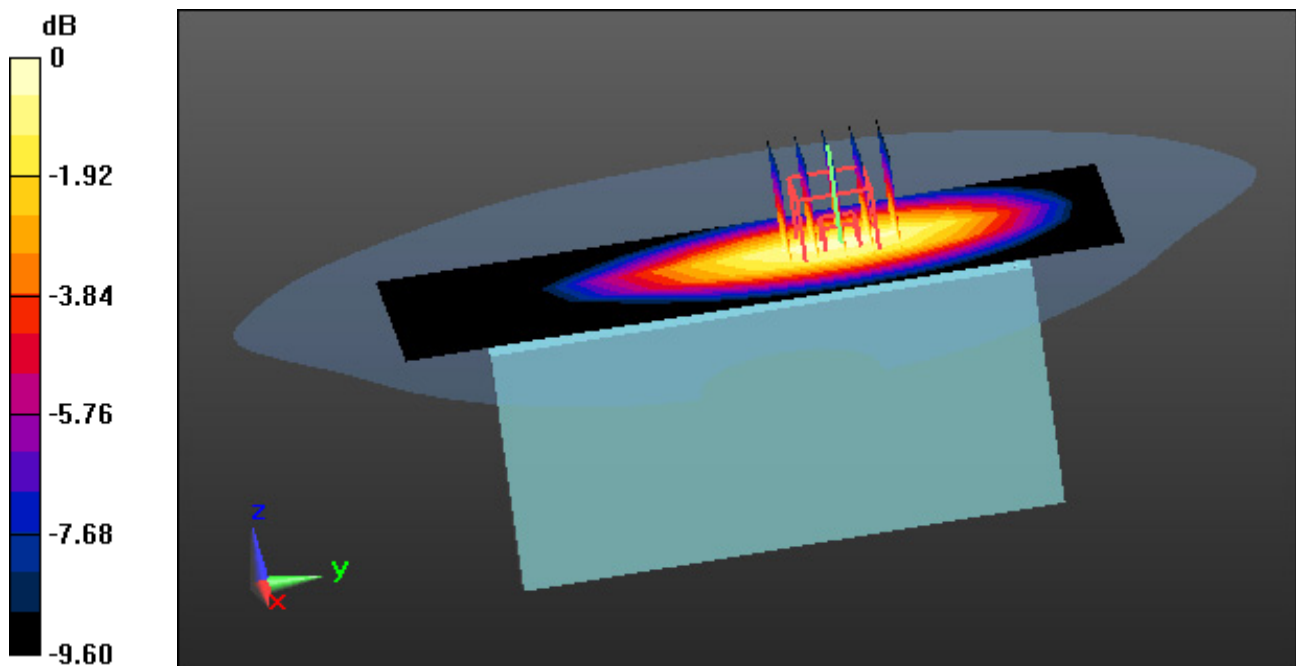
**Area Scan (6x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

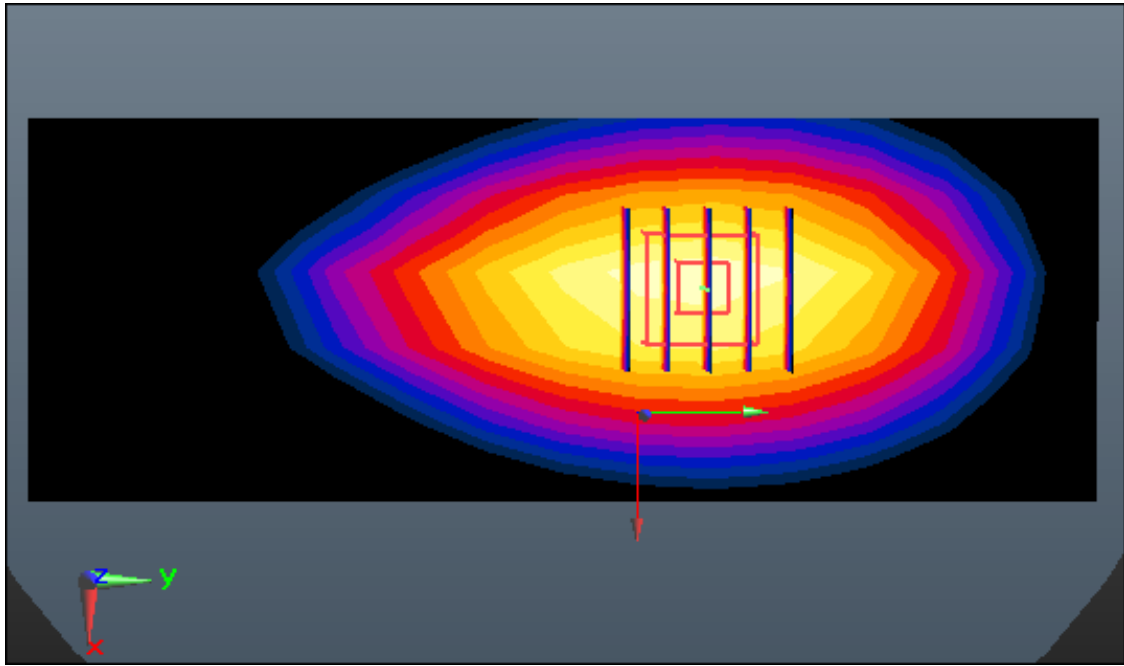
Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.907 W/kg

**SAR(1 g) = 0.633 W/kg; SAR(10 g) = 0.432 W/kg**



0 dB = 0.729 W/kg



Enlarged Plot for A23

## DT&C Co., Ltd.

**DUT: LM-X525EAW; Type: Bar**

Communication System: UID 0, W-LAN 5G (0); Frequency: 5240 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5240 \text{ MHz}$ ;  $\sigma = 5.194 \text{ S/m}$ ;  $\epsilon_r = 48.41$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3930; ConvF(4.61, 4.61, 4.61); Calibrated: 7/26/2018; Electronics: DAE4 Sn1335

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Phantom: Twin-SAM V5.0 ; Type: QD 000 P40 CD; Serial: 1679

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-03-26; Ambient Temp: 20.6; Tissue Temp: 20.8

**1 cm space form Body, Rear, WLAN(802.11a) Ch. 48, Ant Internal**

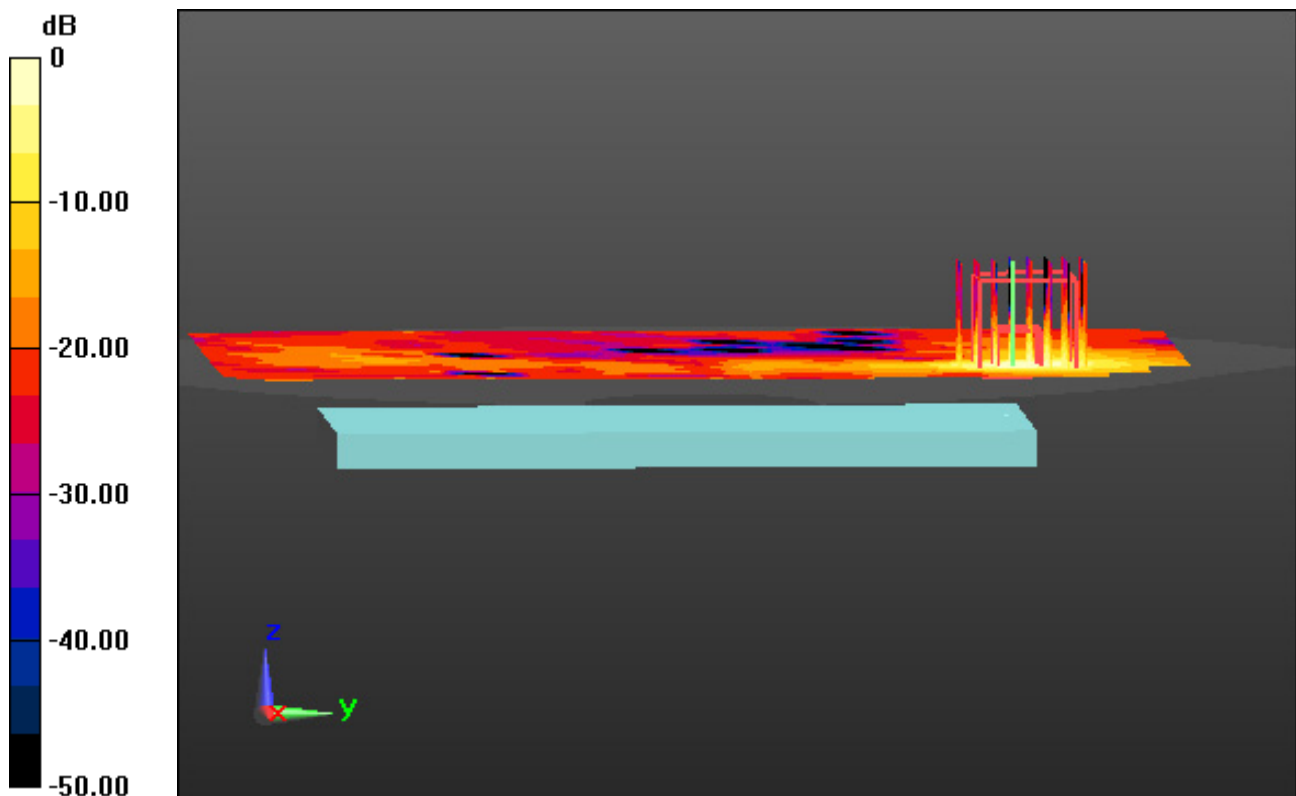
**Area Scan (15x23x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

**Zoom Scan (8x8x7)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=1.4\text{mm}$ , Graded Ratio: 1.4

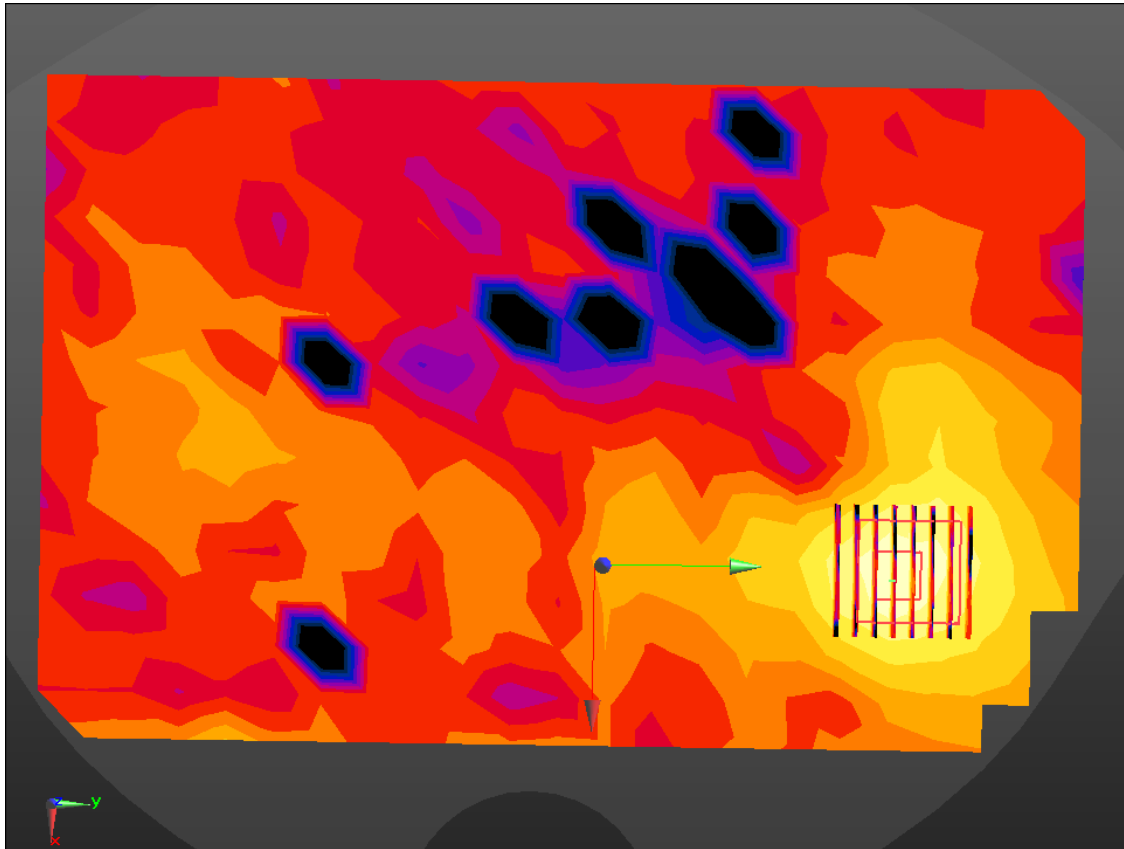
Power Drift = -0.10 dB

Peak SAR (extrapolated) = 1.17 W/kg

**SAR(1 g) = 0.303 W/kg; SAR(10 g) = 0.095 W/kg**



0 dB = 0.713 W/kg



Enlarged Plot for A24

## DT&C Co., Ltd.

**DUT: LM-X525EAW; Type: Bar**

Communication System: UID 0, 00\_5GHz W-LAN (0); Frequency: 5320 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5320 \text{ MHz}$ ;  $\sigma = 5.599 \text{ S/m}$ ;  $\epsilon_r = 48.635$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3930; ConvF(4.47, 4.47, 4.47); Calibrated: 7/26/2018; Electronics: DAE4 Sn1335

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Phantom: Twin-SAM V5.0 ; Type: QD 000 P40 CD; Serial: 1679

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-03-27; Ambient Temp: 20.8; Tissue Temp: 21.2

**Touch form Body, Rear, WLAN(802.11a) Ch. 64, Ant Internal**

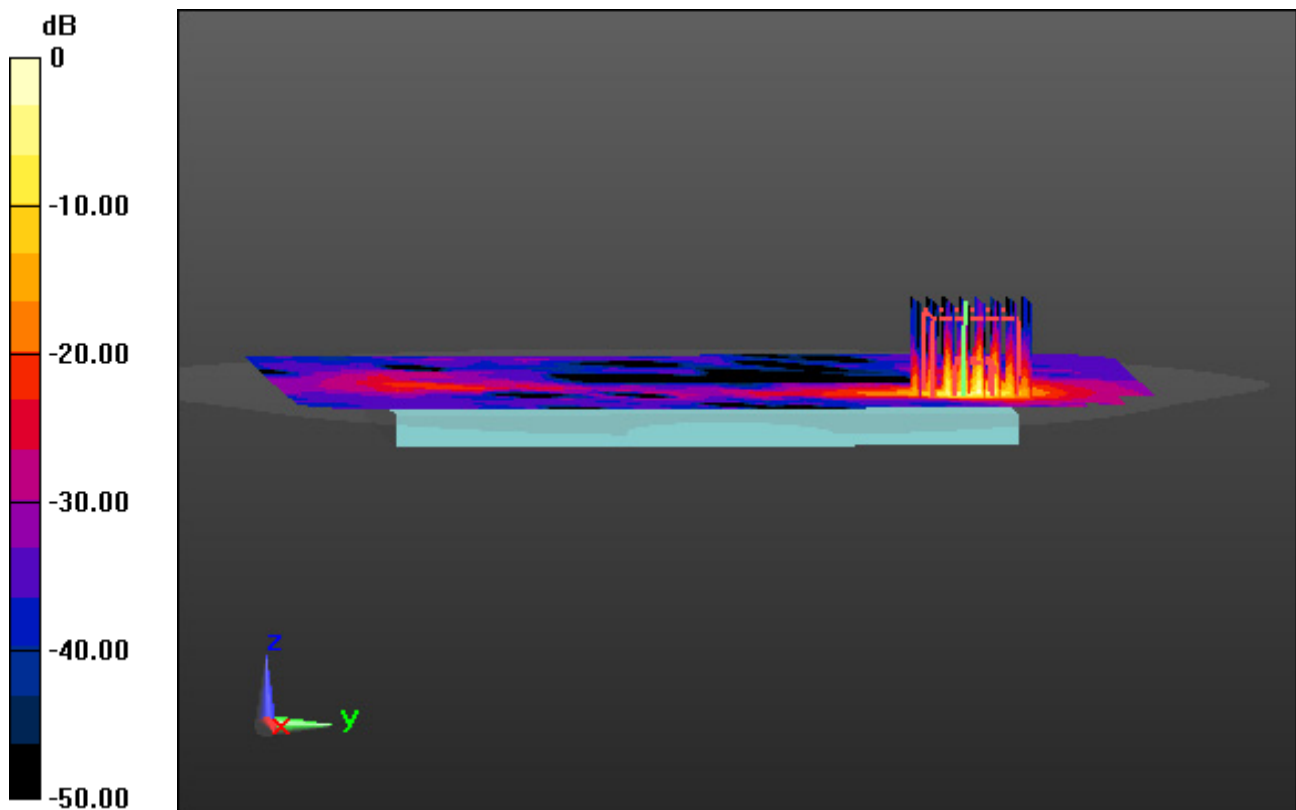
**Area Scan (15x23x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

**Zoom Scan (8x8x7)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=1.4\text{mm}$ , Graded Ratio: 1.4

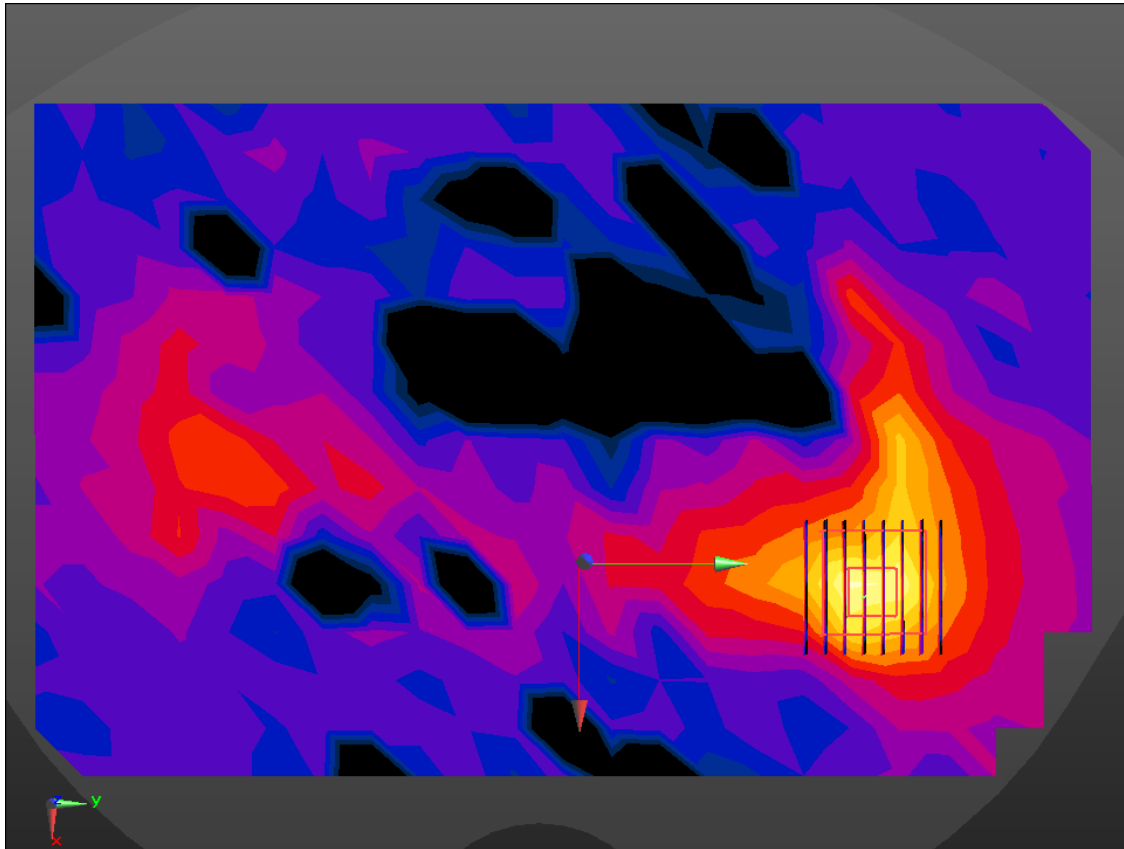
Power Drift = -0.02 dB

Peak SAR (extrapolated) = 32.2 W/kg

**SAR(1 g) = 5.24 W/kg; SAR(10 g) = 0.979 W/kg**



0 dB = 16.0 W/kg



Enlarged Plot for A25

## DT&C Co., Ltd.

**DUT: LM-X525EAW; Type: Bar**

Communication System: UID 0, W-LAN 5G (0); Frequency: 5660 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5660 \text{ MHz}$ ;  $\sigma = 5.716 \text{ S/m}$ ;  $\epsilon_r = 48.475$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3930; ConvF(4.09, 4.09, 4.09); Calibrated: 7/26/2018; Electronics: DAE4 Sn1335

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Phantom: Twin-SAM V5.0 ; Type: QD 000 P40 CD; Serial: 1679

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-03-28; Ambient Temp: 20.9; Tissue Temp: 21.0

**Touch form Body, Rear, WLAN(802.11a) Ch. 132, Ant Internal**

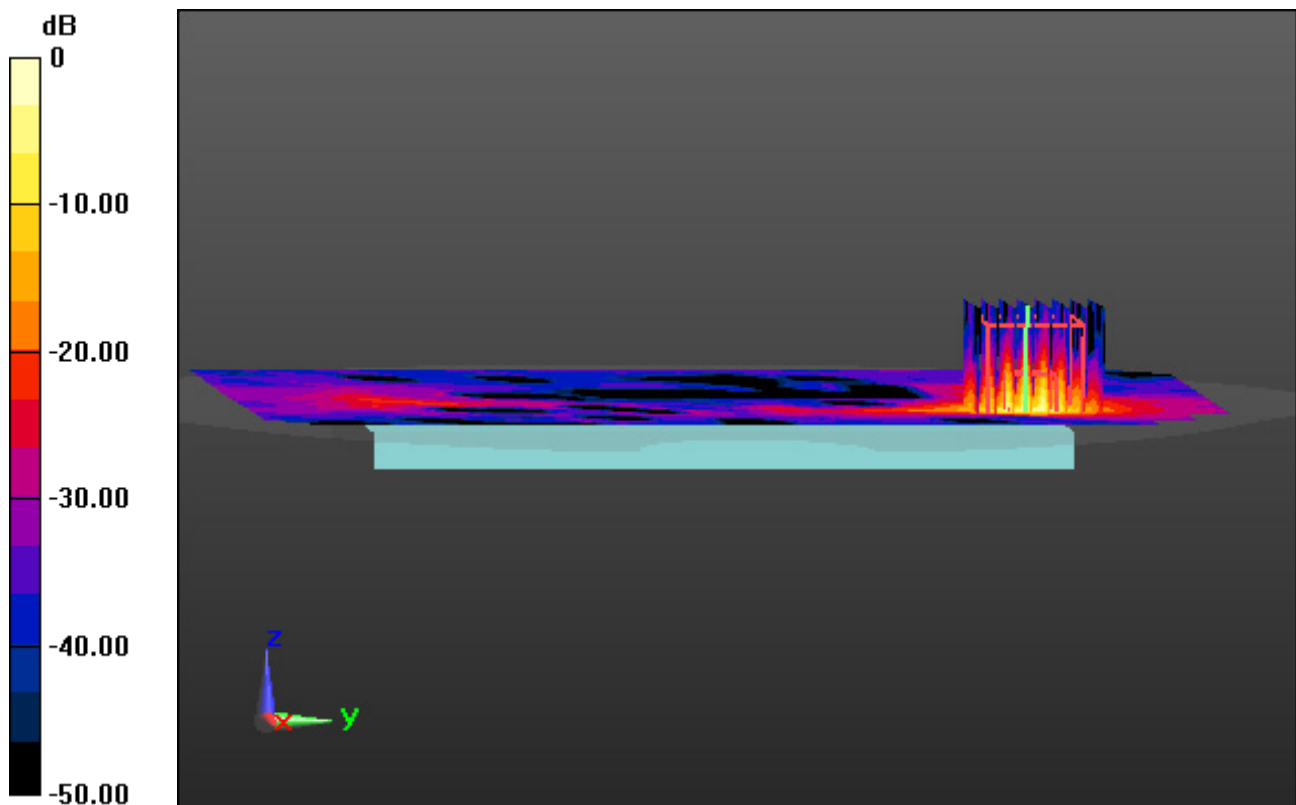
**Area Scan (15x23x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

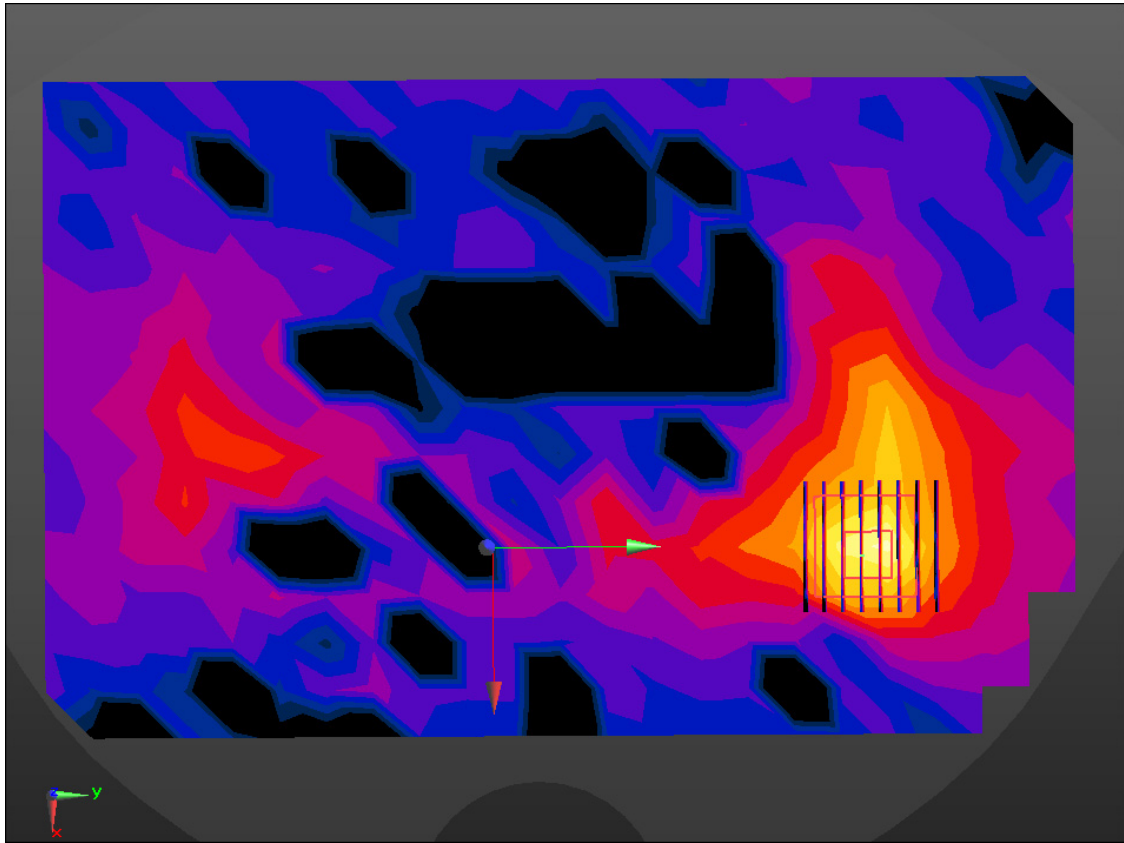
**Zoom Scan (8x8x7)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=1.4\text{mm}$ , Graded Ratio: 1.4

Power Drift = -0.17 dB

Peak SAR (extrapolated) = 30.5 W/kg

**SAR(1 g) = 4.79 W/kg; SAR(10 g) = 0.880 W/kg**





Enlarged Plot for A26

## DT&C Co., Ltd.

**DUT: LM-X525EAW; Type: Bar**

Communication System: UID 0, 00\_5GHz W-LAN (0); Frequency: 5825 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5825$  MHz;  $\sigma = 5.9$  S/m;  $\epsilon_r = 48.047$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3930; ConvF(4.14, 4.14, 4.14); Calibrated: 7/26/2018; Electronics: DAE4 Sn1335

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Phantom: Twin-SAM V5.0 ; Type: QD 000 P40 CD; Serial: 1679

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-03-29; Ambient Temp: 20.6; Tissue Temp: 20.9

**Touch form Body, Rear, WLAN(802.11a) Ch. 165, Ant Internal**

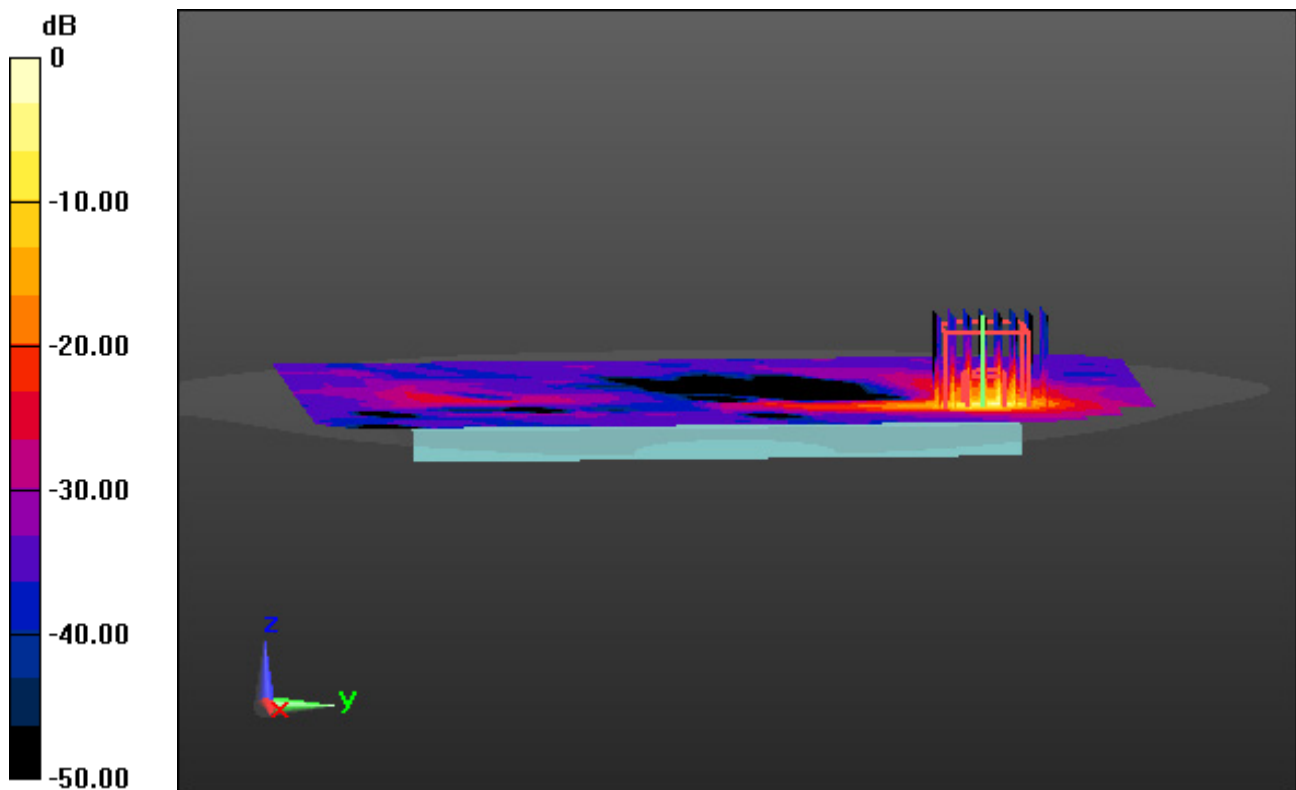
**Area Scan (15x23x1):** Measurement grid: dx=10mm, dy=10mm

**Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm, Graded Ratio: 1.4

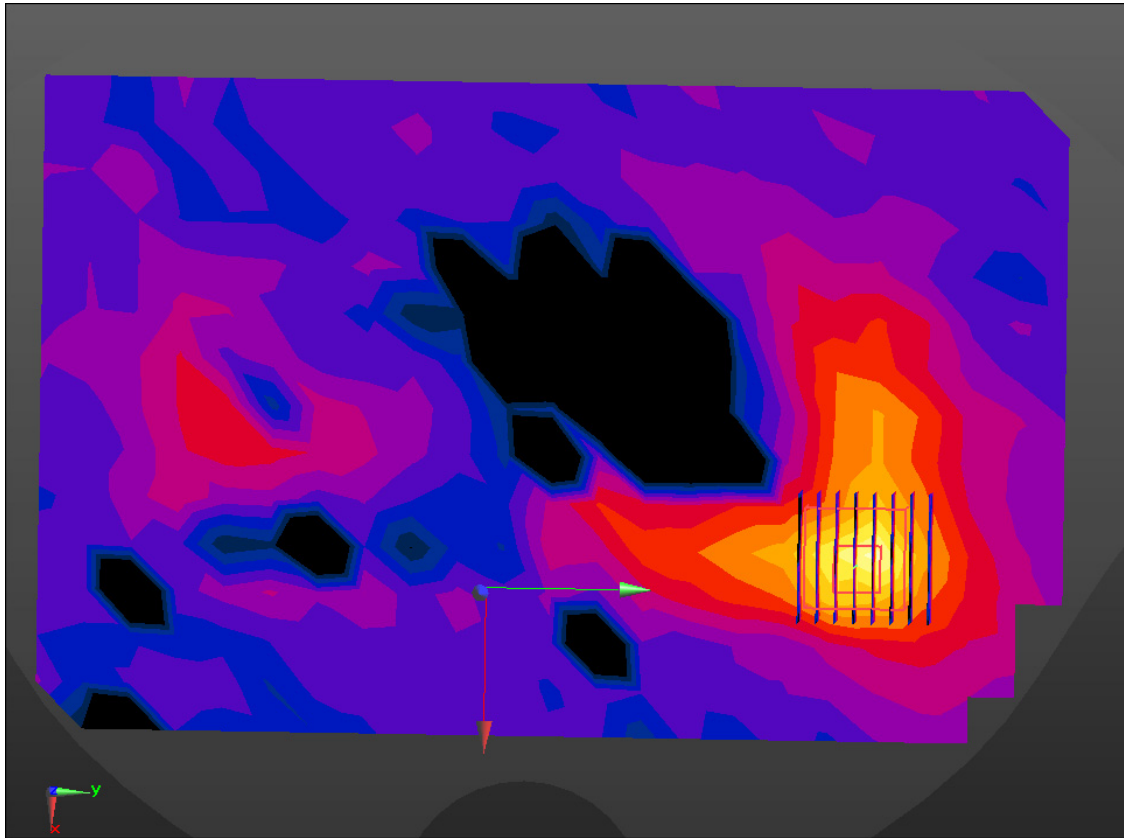
Power Drift = 0.12 dB

Peak SAR (extrapolated) = 40.4 W/kg

**SAR(1 g) = 5.14 W/kg; SAR(10 g) = 0.891 W/kg**



0 dB = 20.7 W/kg



Enlarged Plot for A27