

## **SAR Plots**

- Verification Plots
- SAR Test Plots

## DT&C Co., Ltd.

**DUT: Dipole 600 MHz; Type: D600V3; Serial: D600V3 - SN:1002**

Communication System: UID 0, CW (0); Frequency: 600 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 600 \text{ MHz}$ ;  $\sigma = 0.866 \text{ S/m}$ ;  $\epsilon_r = 43.02$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: ET3DV6R - SN1703; ConvF(7.07, 7.07, 7.07) @ 600 MHz; Calibrated: 7/23/2019 Electronics: DAE3  
Sn520

Sensor-Surface: 4mm (Mechanical Surface Detection)

Phantom: SAM with CRP\_2013\_10\_08\_right; Type: QD000P40CD; Serial: TP:1785

Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Test Date: 2020-07-03; Ambient Temp: 20.4; Tissue Temp: 20.6

### **600 MHz System Verification (250 mW)**

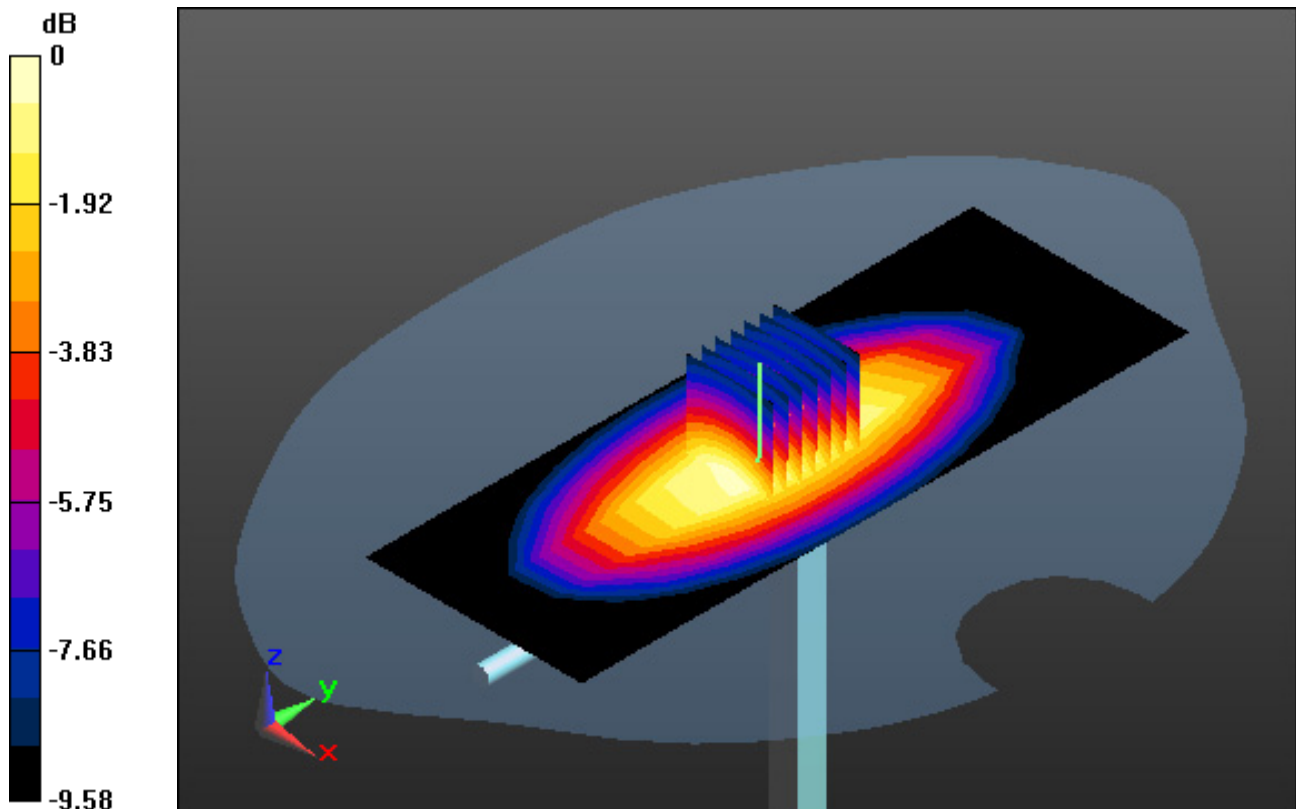
**Area Scan (7x9x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Power Drift = -0.02 dB

Peak SAR (extrapolated) = 2.58 W/kg

**SAR(1 g) = 1.65 W/kg; SAR(10 g) = 1.1 W/kg**



0 dB = 1.76 W/kg

## DT&C Co., Ltd.

**DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN: 1049**

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 750$  MHz;  $\sigma = 0.919$  S/m;  $\epsilon_r = 42.05$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: ES3DV3 - SN3328; ConvF(6.34, 6.34, 6.34) @ 750 MHz; Calibrated: 3/25/2020 Electronics: DAE4  
Sn1335

Sensor-Surface: 3mm (Mechanical Surface Detection)

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

Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Test Date: 2020-07-02; Ambient Temp: 20.2; Tissue Temp: 20.3

### **750 MHz System Verification (250 mW)**

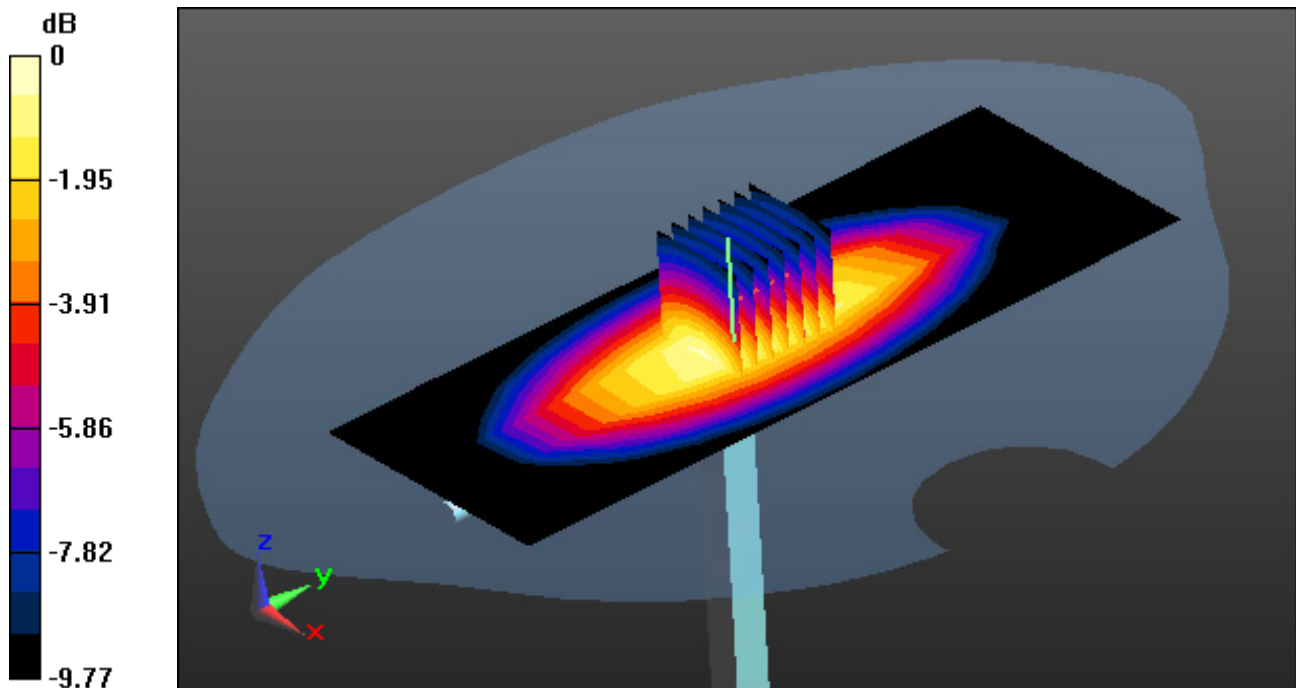
**Area Scan (6x15x1):** Measurement grid: dx=15mm, dy=15mm

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

Power Drift = -0.05 dB

Peak SAR (extrapolated) = 2.41 W/kg

SAR(1 g) = 2.12 W/kg; SAR(10 g) = 1.42 W/kg



0 dB = 2.31 W/kg

## DT&C Co., Ltd.

**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:464**

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.902 \text{ S/m}$ ;  $\epsilon_r = 41.429$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: ES3DV3 - SN3328; ConvF(6.19, 6.19, 6.19) @ 835 MHz; Calibrated: 3/25/2020 Electronics: DAE4  
Sn1335

Sensor-Surface: 3mm (Mechanical Surface Detection)

Phantom: SAM-twin right\_2013\_09\_24; Type: QD000P40CD; Serial: TP:1783  
Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Test Date: 2020-06-29; Ambient Temp: 20.1; Tissue Temp: 20.3

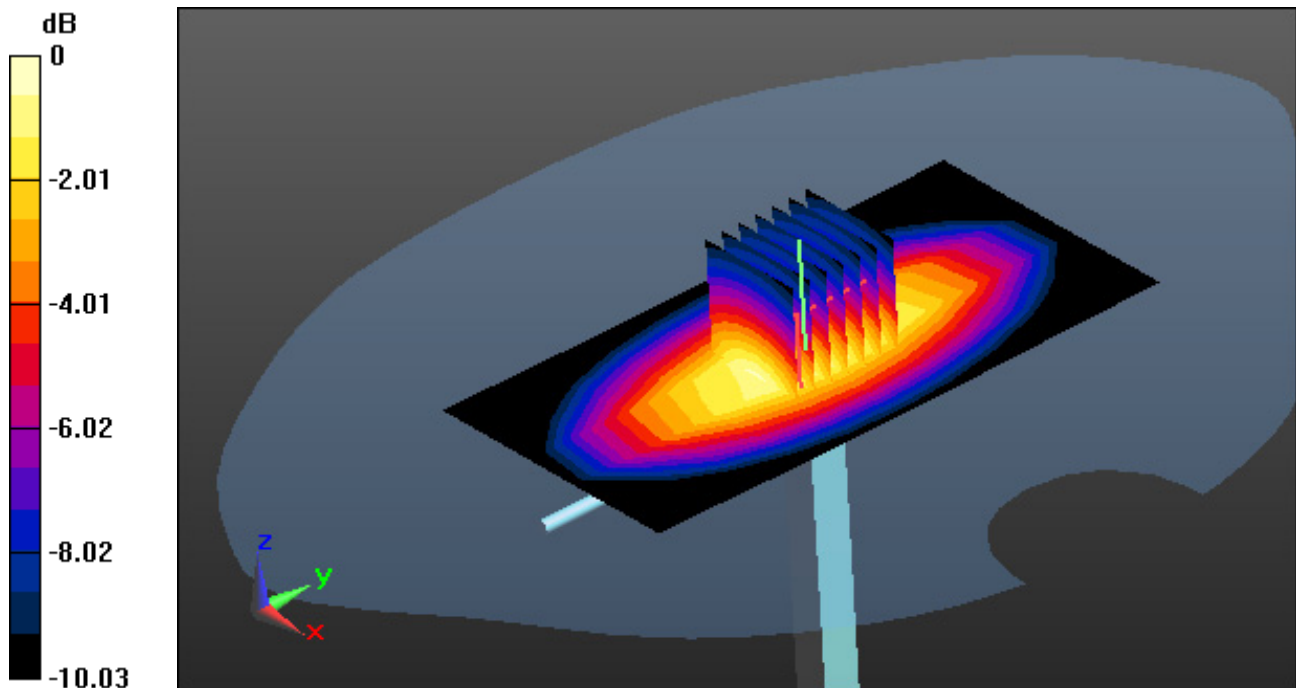
### **835 MHz System Verification (250 mW)**

**Area Scan (6x11x1):** 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 = -0.02 dB

Peak SAR (extrapolated) = 2.45 W/kg

**SAR(1 g) = 2.26 W/kg; SAR(10 g) = 1.49 W/kg**



0 dB = 2.26 W/kg

## DT&C Co., Ltd.

**DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN:2d202**

Communication System: UID 0, CW (0); Frequency: 1800 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1800$  MHz;  $\sigma = 1.392$  S/m;  $\epsilon_r = 38.533$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: ES3DV3 - SN3328; ConvF(5.34, 5.34, 5.34) @ 1800 MHz; Calibrated: 3/25/2020 Electronics: DAE4  
Sn1335

Sensor-Surface: 3mm (Mechanical Surface Detection)

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

Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Test Date: 2020-06-30; Ambient Temp: 20.4; Tissue Temp: 20.2

### **1800 MHz System Verification (100 mW)**

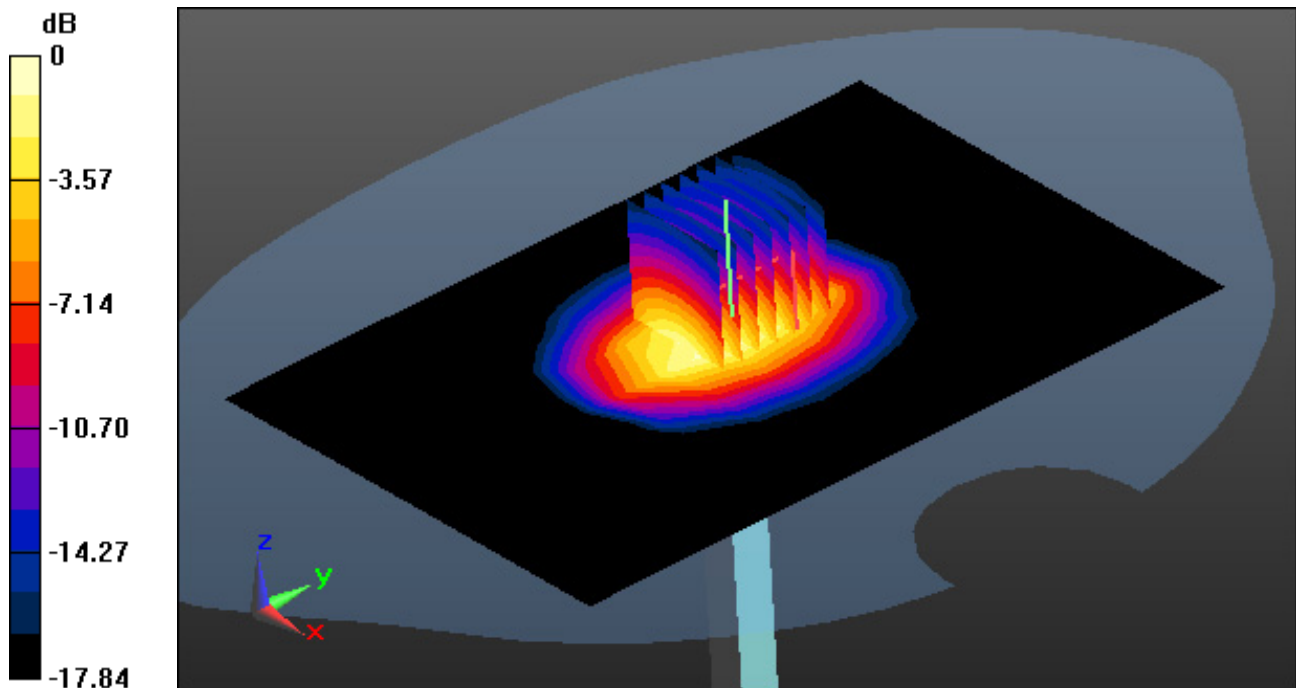
**Area Scan (9x13x1):** Measurement grid: dx=15mm, dy=15mm

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

Power Drift = 0.08 dB

Peak SAR (extrapolated) = 5.54 W/kg

SAR(1 g) = 3.79 W/kg; SAR(10 g) = 1.97 W/kg



0 dB = 4.05 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;  $\sigma = 1.42$  S/m;  $\epsilon_r = 39.986$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: ES3DV3 - SN3328; ConvF(5.09, 5.09, 5.09) @ 1900 MHz; Calibrated: 3/25/2020 Electronics: DAE4  
Sn1335

Sensor-Surface: 3mm (Mechanical Surface Detection)

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

Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Test Date: 2020-07-01; Ambient Temp: 20.6; Tissue Temp: 20.5

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

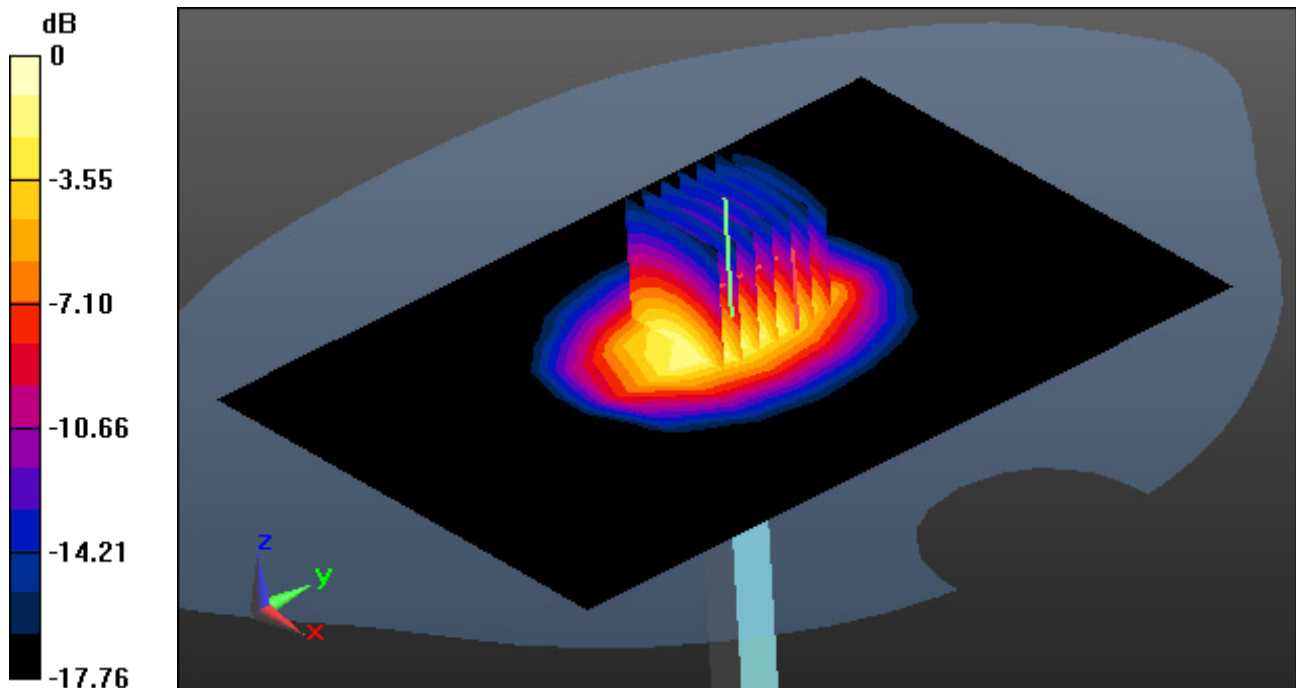
**Area Scan (9x13x1):** Measurement grid: dx=15mm, dy=15mm

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

Power Drift = -0.04 dB

Peak SAR (extrapolated) = 5.82 W/kg

**SAR(1 g) = 4.02 W/kg; SAR(10 g) = 2.11 W/kg**



0 dB = 4.31 W/kg

## DT&C Co., Ltd.

**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:726**

Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.838$  S/m;  $\epsilon_r = 39.002$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3933; ConvF(7.84, 7.84, 7.84) @ 2450 MHz; Calibrated: 9/27/2019 Electronics: DAE3  
Sn520

Sensor-Surface: 2mm (Mechanical Surface Detection)

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

Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Test Date: 2020-06-29; Ambient Temp: 20.6; Tissue Temp: 20.5

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

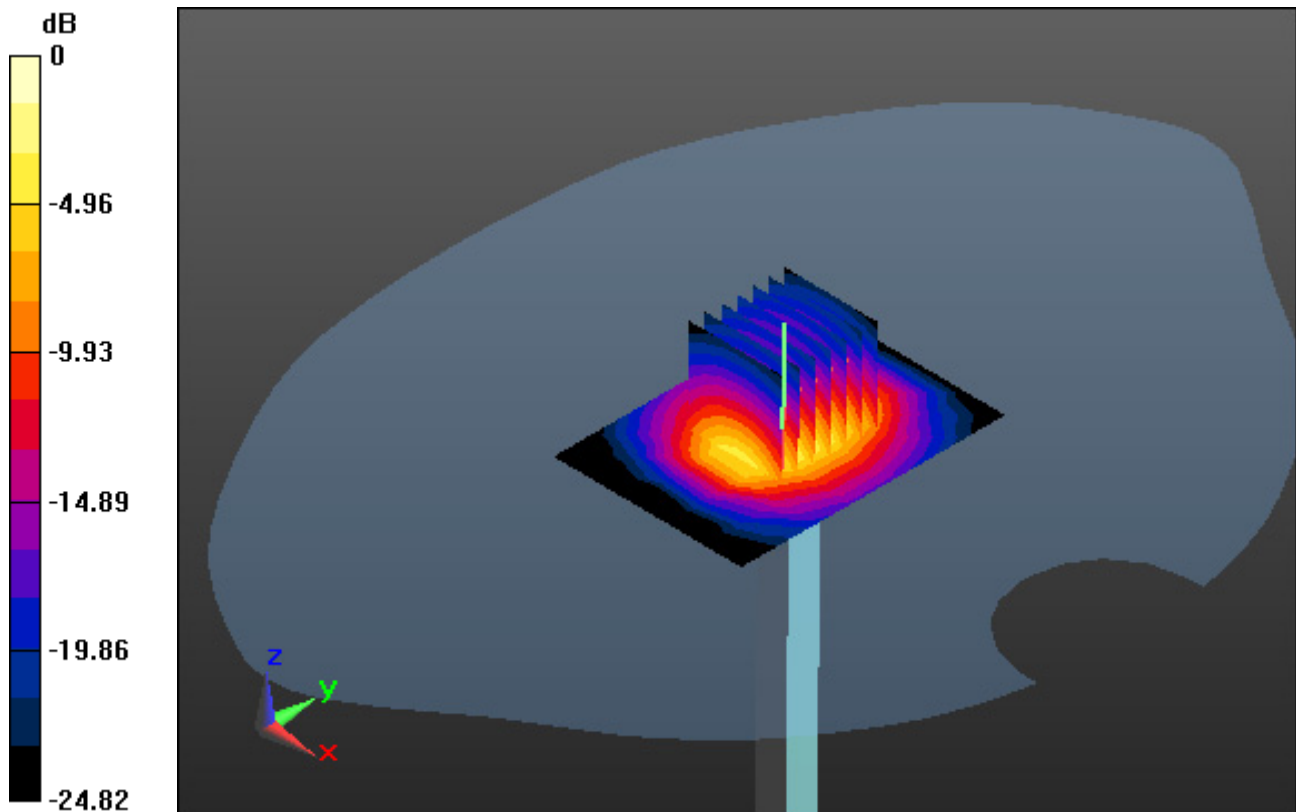
**Area Scan (6x8x1):** Measurement grid: dx=12mm, dy=12mm

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

Power Drift = -0.01 dB

Peak SAR (extrapolated) = 11.1 W/kg

SAR(1 g) = 5.27 W/kg; SAR(10 g) = 2.49 W/kg



0 dB = 7.96 W/kg

## DT&C Co., Ltd.

**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: D5GHzV2 - SN:1212**

Communication System: UID 0, CW (0); Frequency: 5300 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5300$  MHz;  $\sigma = 4.894$  S/m;  $\epsilon_r = 35.536$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3933; ConvF(5.1, 5.1, 5.1) @ 5300 MHz; Calibrated: 9/27/2019 Electronics: DAE3 Sn520  
Sensor-Surface: 1.4mm (Mechanical Surface Detection)  
Phantom: SAM with CRP\_2013\_10\_08\_right; Type: QD000P40CD; Serial: TP:1785  
Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Test Date: 2020-06-30; Ambient Temp: 20.7; Tissue Temp: 20.4

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

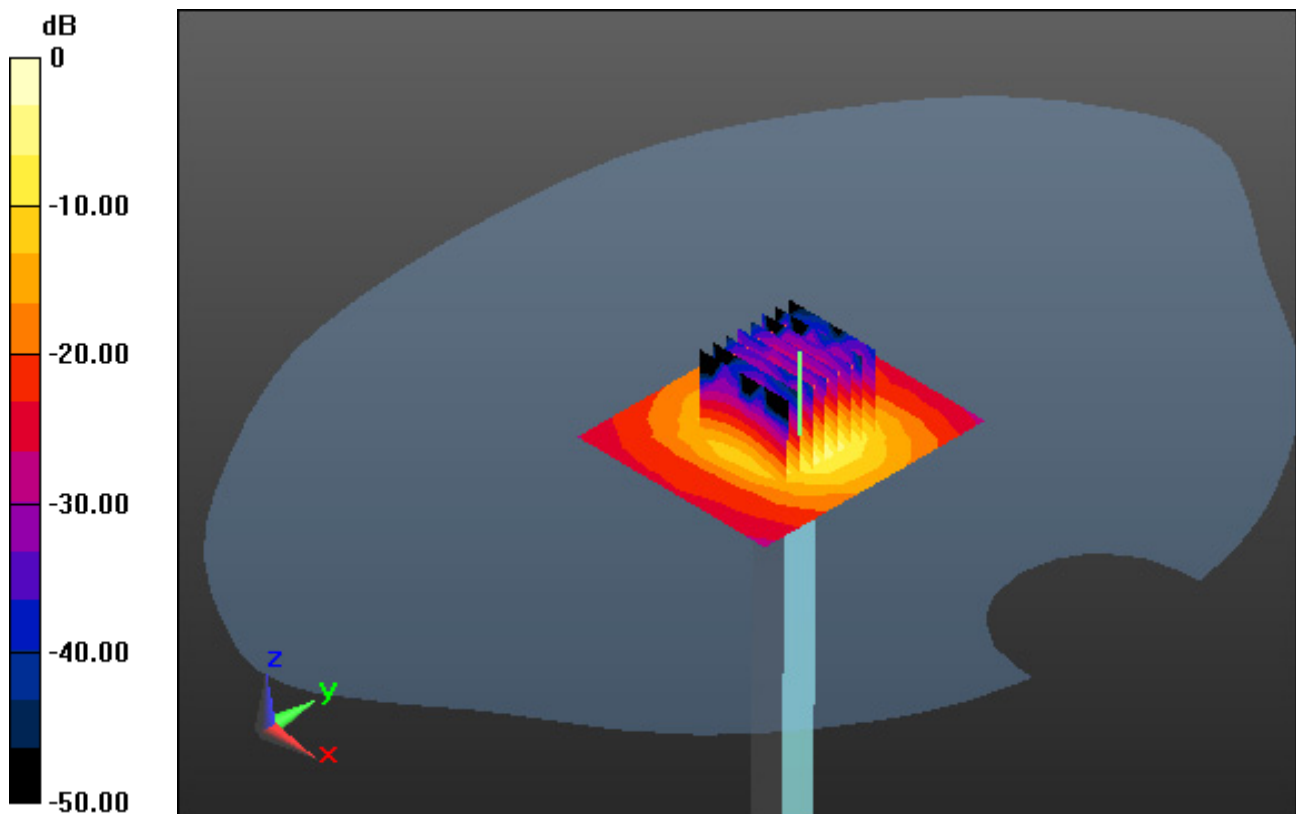
**Area Scan (7x8x1):** Measurement grid: dx=10mm, dy=10mm

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

Power Drift = 0.04 dB

Peak SAR (extrapolated) = 33.7 W/kg

**SAR(1 g) = 8.04 W/kg; SAR(10 g) = 2.24 W/kg**



0 dB = 19.5 W/kg

## DT&C Co., Ltd.

**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: D5GHzV2 - SN:1212**

Communication System: UID 0, CW (0); Frequency: 5800 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.352$  S/m;  $\epsilon_r = 34.13$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3933; ConvF(4.75, 4.75, 4.75) @ 5800 MHz; Calibrated: 9/27/2019 Electronics: DAE3  
Sn520

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Phantom: SAM with CRP\_2013\_10\_08\_right; Type: QD000P40CD; Serial: TP:1785

Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Test Date: 2020-07-01; Ambient Temp: 20.7; Tissue Temp: 20.3

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

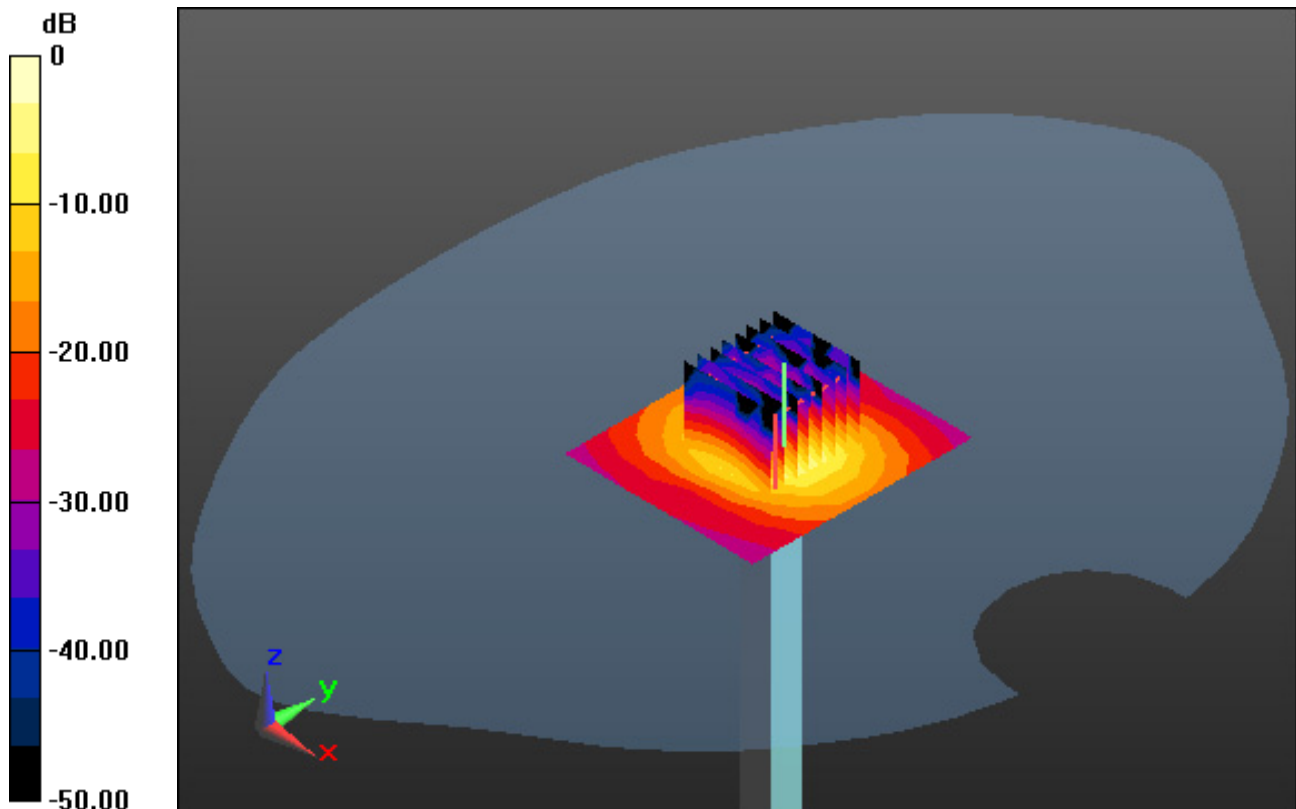
**Area Scan (7x8x1):** Measurement grid: dx=10mm, dy=10mm

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

Power Drift = 0.01 dB

Peak SAR (extrapolated) = 35.2 W/kg

SAR(1 g) = 8.21 W/kg; SAR(10 g) = 2.29 W/kg



0 dB = 19.8 W/kg

## DT&C Co., Ltd.

**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: D5GHzV2 - SN:1212**

Communication System: UID 0, CW (0); Frequency: 5800 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.454$  S/m;  $\epsilon_r = 34.911$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3933; ConvF(4.75, 4.75, 4.75) @ 5800 MHz; Calibrated: 9/27/2019 Electronics: DAE3  
Sn520

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Phantom: SAM with CRP\_2013\_10\_08\_right; Type: QD000P40CD; Serial: TP:1785

Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Test Date: 2020-07-02; Ambient Temp: 20.9; Tissue Temp: 20.6

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

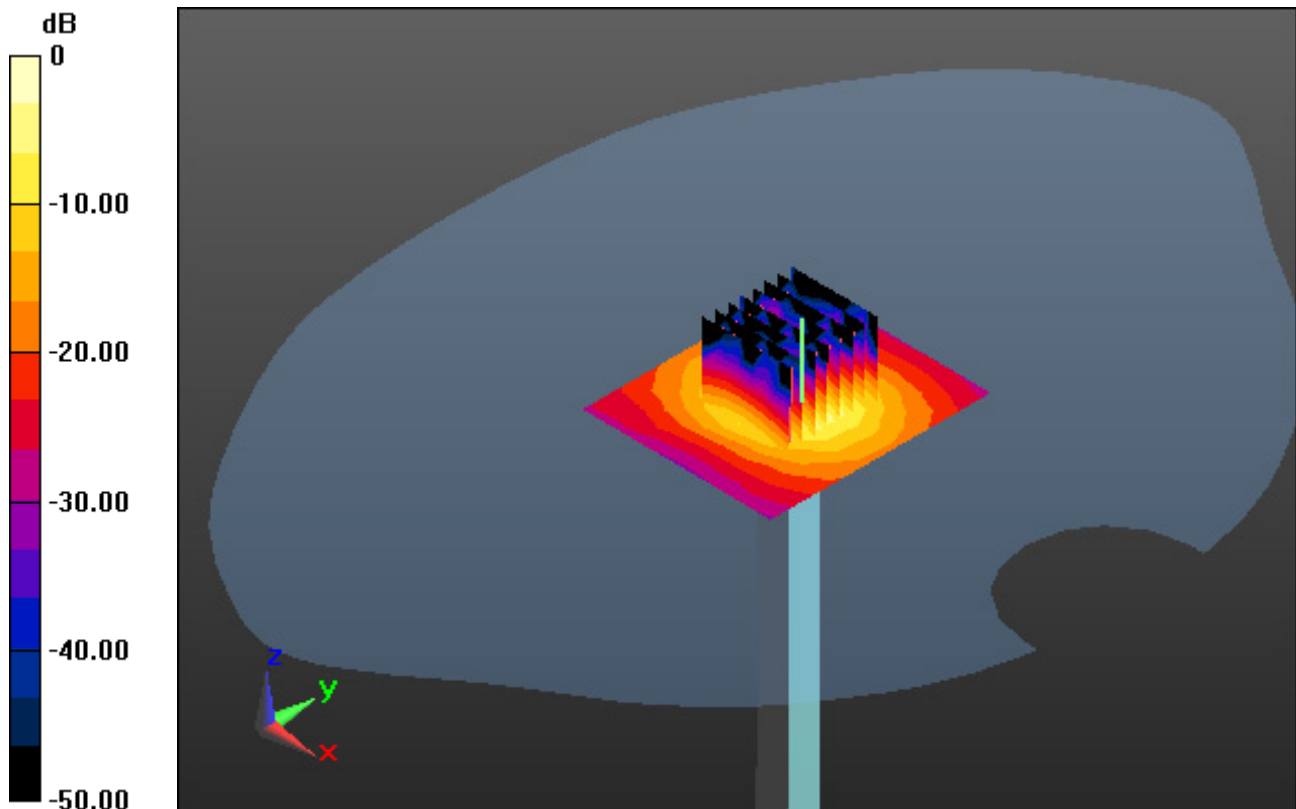
**Area Scan (7x8x1):** Measurement grid: dx=10mm, dy=10mm

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

Power Drift = -0.01 dB

Peak SAR (extrapolated) = 36.4 W/kg

SAR(1 g) = 8.26 W/kg; SAR(10 g) = 2.31 W/kg



0 dB = 20.4 W/kg

## DT&C Co., Ltd.

**DUT: VF550; Type: Bar;**

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

Medium parameters used:  $f = 836.6$  MHz;  $\sigma = 0.903$  S/m;  $\epsilon_r = 41.415$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### **DASY5 Configuration:**

Probe: ES3DV3 - SN3328; ConvF(6.19, 6.19, 6.19) @ 836.6 MHz; Calibrated: 3/25/2020 Electronics: DAE4 Sn1335

Sensor-Surface: 3mm (Mechanical Surface Detection)

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

Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Test Date: 2020-06-29; Ambient Temp: 20.1; Tissue Temp: 20.3

**Right Touch, WCDMA Band 5 Ch. 4183, Ant Internal, Standard Battery**

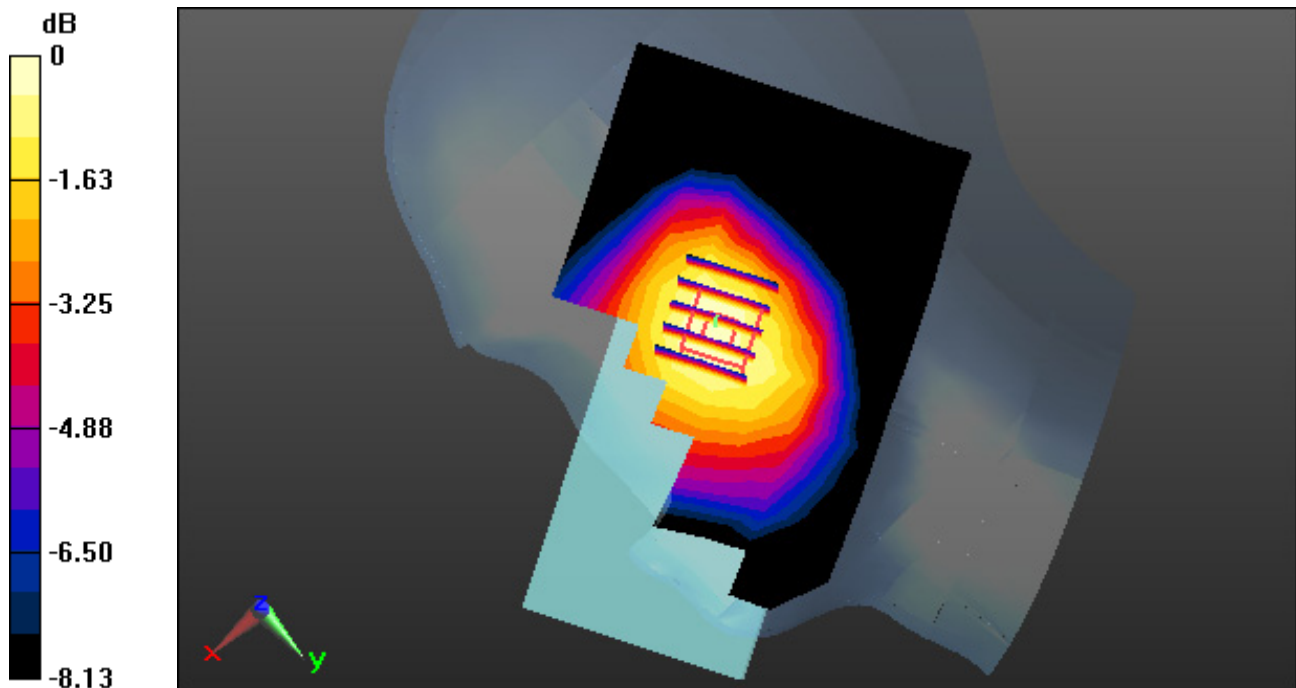
**Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm

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

Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.201 W/kg

**SAR(1 g) = 0.170 W/kg; SAR(10 g) = 0.132 W/kg**



0 dB = 0.185 W/kg

## DT&C Co., Ltd.

**DUT: VF550; Type: Bar;**

Communication System: UID 0, WCDMA Band 4 (FCC) (0); Frequency: 1732.4 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1732.4$  MHz;  $\sigma = 1.332$  S/m;  $\epsilon_r = 38.879$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### **DASY5 Configuration:**

Probe: ES3DV3 - SN3328; ConvF(5.34, 5.34, 5.34) @ 1732.4 MHz; Calibrated: 3/25/2020 Electronics: DAE4 Sn1335

Sensor-Surface: 3mm (Mechanical Surface Detection)

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

Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Test Date: 2020-06-30; Ambient Temp: 20.4; Tissue Temp: 20.2

**Right Touch, WCDMA Band 4 Ch. 1412, Ant Internal, Standard Battery**

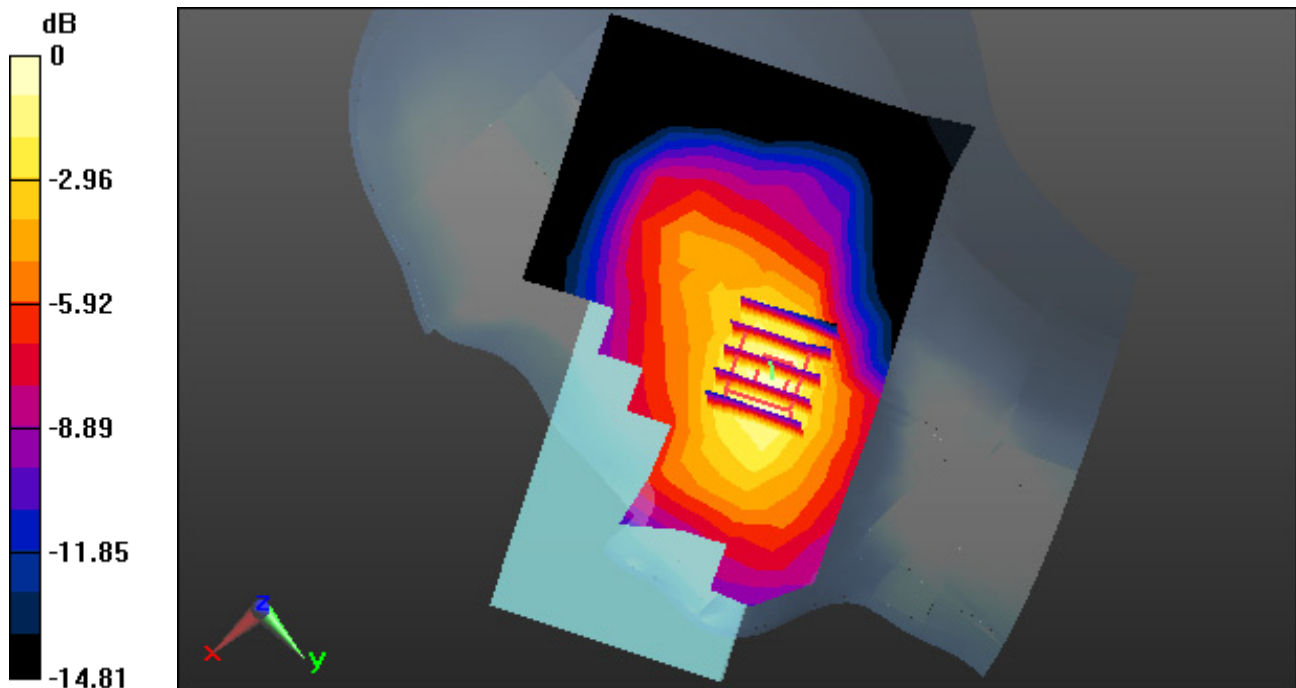
**Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm

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

Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.533 W/kg

**SAR(1 g) = 0.356 W/kg; SAR(10 g) = 0.236 W/kg**



0 dB = 0.430 W/kg

## DT&C Co., Ltd.

**DUT: VF550; Type: Bar;**

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

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.401$  S/m;  $\epsilon_r = 40.052$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### **DASY5 Configuration:**

Probe: ES3DV3 - SN3328; ConvF(5.09, 5.09, 5.09) @ 1880 MHz; Calibrated: 3/25/2020 Electronics: DAE4 Sn1335

Sensor-Surface: 3mm (Mechanical Surface Detection)

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

Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Test Date: 2020-07-01; Ambient Temp: 20.6; Tissue Temp: 20.5

**Right Touch, WCDMA Band 2 Ch. 9400, Ant Internal, Standard Battery**

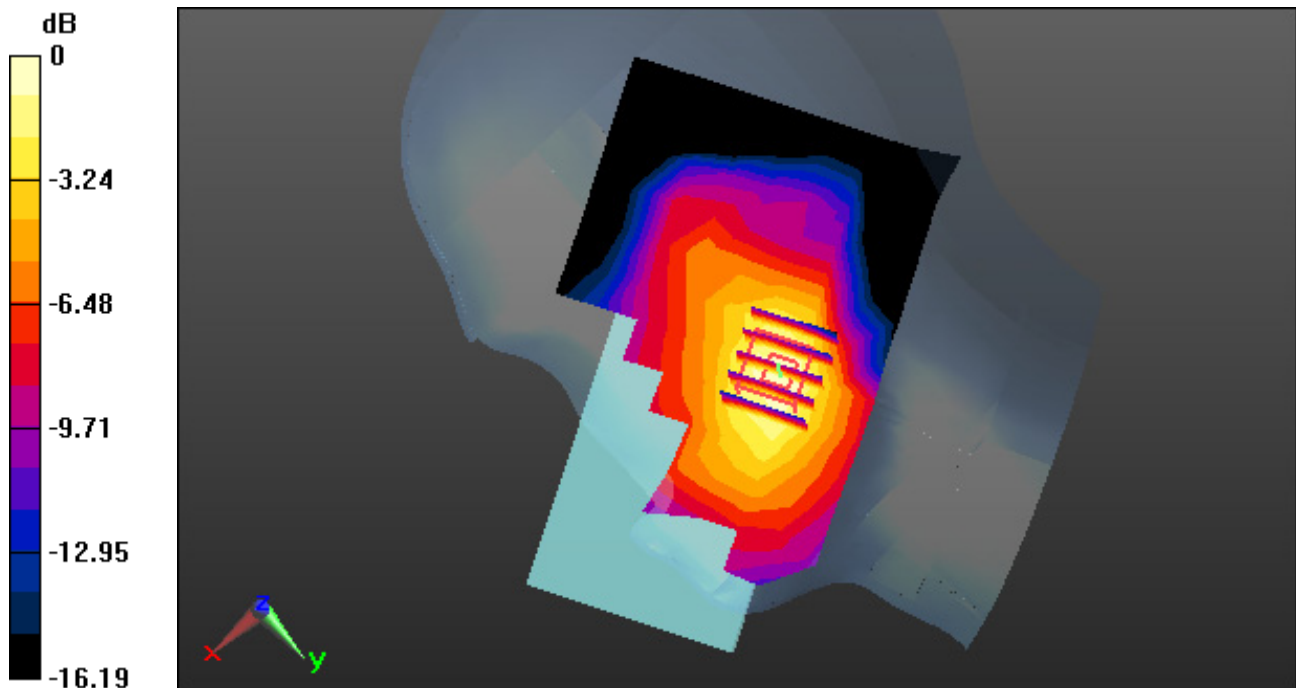
**Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm

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

Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.302 W/kg

**SAR(1 g) = 0.203 W/kg; SAR(10 g) = 0.126 W/kg**



0 dB = 0.240 W/kg

## DT&C Co., Ltd.

**DUT: VF550; Type: Bar**

Communication System: UID 0, LTE Band 71 (0); Frequency: 680.5 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 680.5$  MHz;  $\sigma = 0.914$  S/m;  $\epsilon_r = 42.373$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### **DASY5 Configuration:**

Probe: ET3DV6R - SN1703; ConvF(7.07, 7.07, 7.07) @ 680.5 MHz; Calibrated: 7/23/2019 Electronics: DAE3 Sn520

Sensor-Surface: 4mm (Mechanical Surface Detection)

Phantom: SAM with CRP\_2013\_10\_08\_right; Type: QD000P40CD; Serial: TP:1785

Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Test Date: 2020-07-03; Ambient Temp: 20.4; Tissue Temp: 20.6

**Right Touch, LTE Band 71 Ch. 133297, Ant Internal, Standard Battery**

**Mode : BandWidth 20 MHz, QPSK, RB Size: 1**

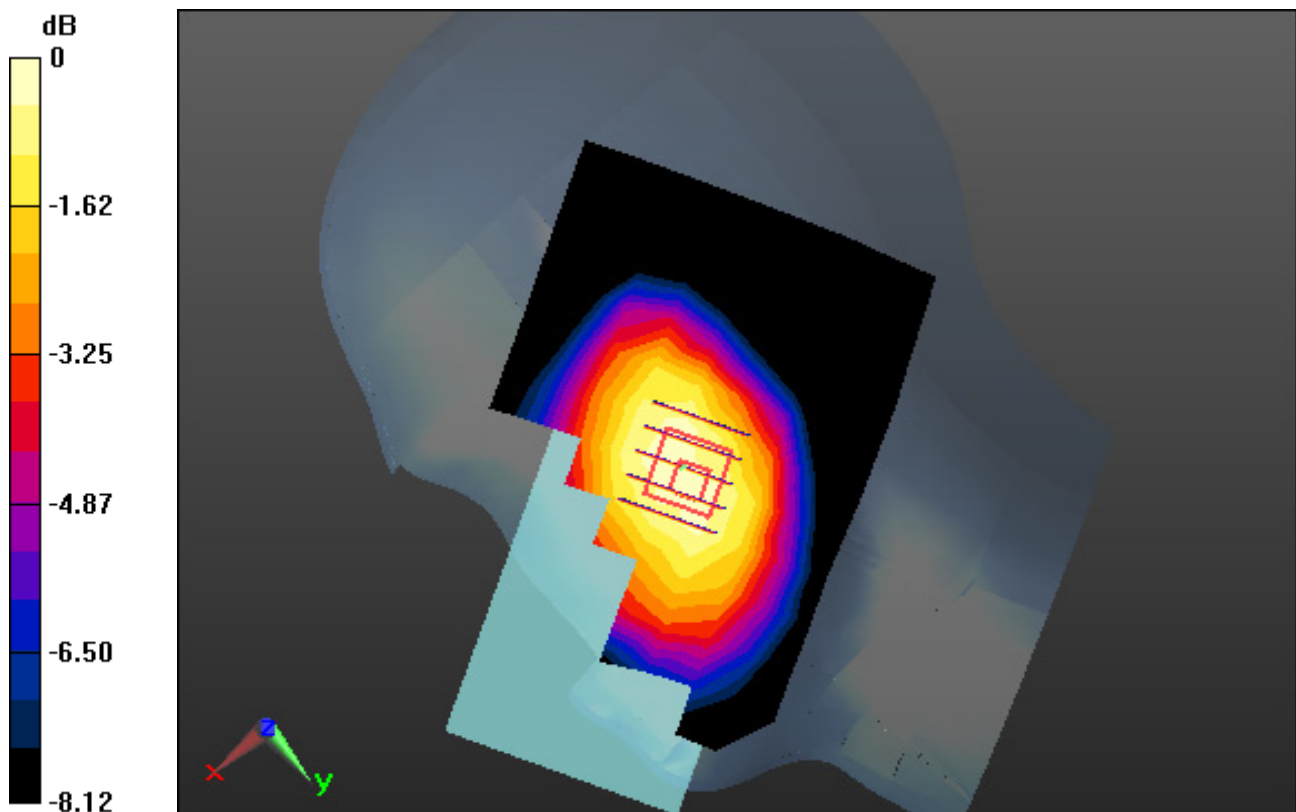
**Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm

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

Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.120 W/kg

**SAR(1 g) = 0.092 W/kg; SAR(10 g) = 0.071 W/kg**



0 dB = 0.0956 W/kg

## DT&C Co., Ltd.

**DUT: VF550; Type: Bar**

Communication System: UID 0, LTE Band 12 (FCC) (0); Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 707.5$  MHz;  $\sigma = 0.881$  S/m;  $\epsilon_r = 42.635$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### **DASY5 Configuration:**

Probe: ES3DV3 - SN3328; ConvF(6.34, 6.34, 6.34) @ 707.5 MHz; Calibrated: 3/25/2020 Electronics: DAE4 Sn1335

Sensor-Surface: 3mm (Mechanical Surface Detection)

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

Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Test Date: 2020-07-02; Ambient Temp: 20.2; Tissue Temp: 20.3

**Right Touch, LTE Band 12 Ch. 23095, Ant Internal, Standard Battery**

**Mode : BandWidth 10 MHz, QPSK, RB Size: 1**

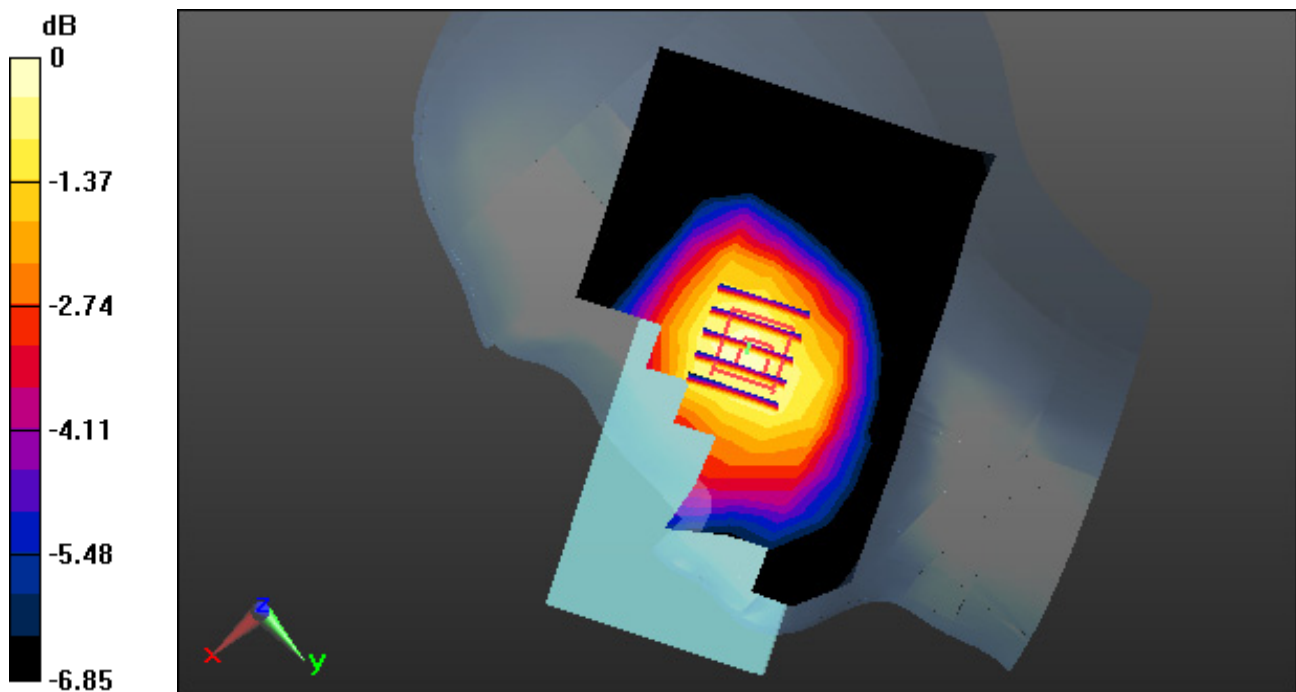
**Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm

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

Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.121 W/kg

**SAR(1 g) = 0.107 W/kg; SAR(10 g) = 0.087 W/kg**



0 dB = 0.115 W/kg

## DT&C Co., Ltd.

**DUT: VF550; Type: Bar**

Communication System: UID 0, LTE Band 13 (0); Frequency: 782 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 782 \text{ MHz}$ ;  $\sigma = 0.922 \text{ S/m}$ ;  $\epsilon_r = 41.608$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

### **DASY5 Configuration:**

Probe: ES3DV3 - SN3328; ConvF(6.34, 6.34, 6.34) @ 782 MHz; Calibrated: 3/25/2020 Electronics: DAE4 Sn1335

Sensor-Surface: 3mm (Mechanical Surface Detection)

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

Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Test Date: 2020-07-02; Ambient Temp: 20.2; Tissue Temp: 20.3

**Right Touch, LTE Band 13 Ch. 23230, Ant Internal, Standard Battery**

**Mode : BandWidth 10 MHz, QPSK, RB Size: 1**

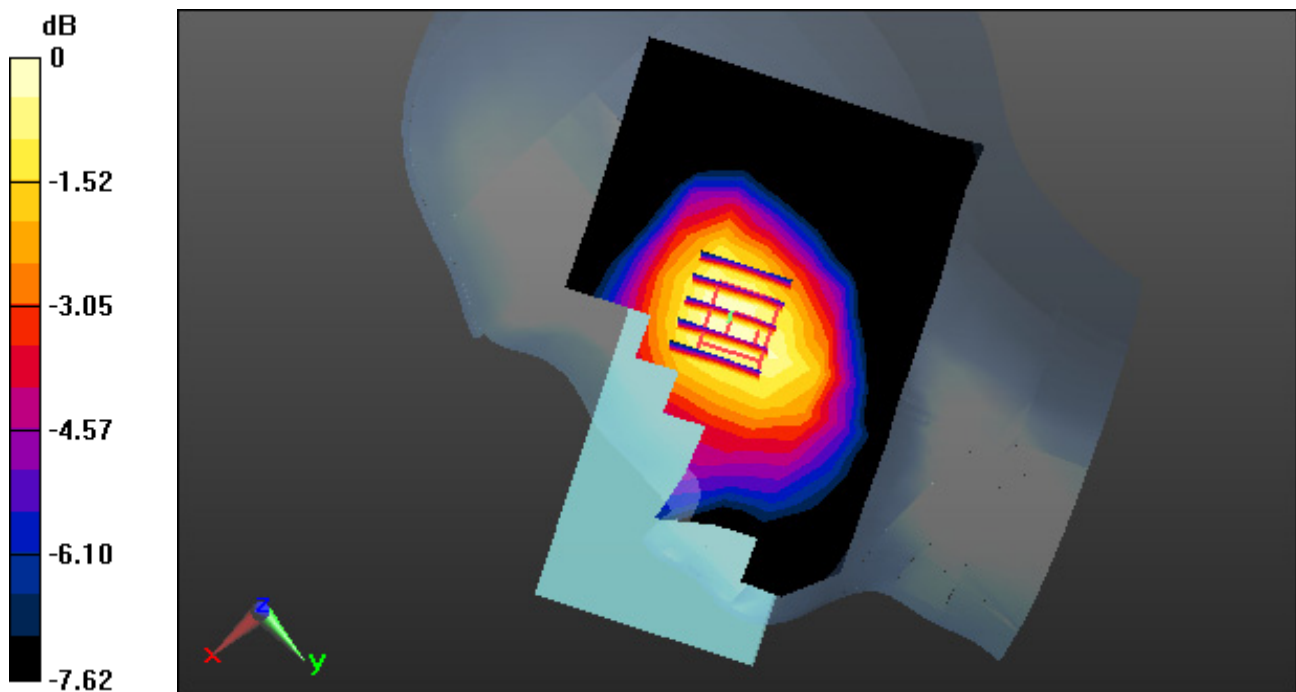
**Area Scan (9x14x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.204 W/kg

**SAR(1 g) = 0.176 W/kg; SAR(10 g) = 0.139 W/kg**



0 dB = 0.187 W/kg

## DT&C Co., Ltd.

**DUT: VF550; Type: Bar**

Communication System: UID 0, LTE Band 5 (FCC) (0); Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 836.5$  MHz;  $\sigma = 0.903$  S/m;  $\epsilon_r = 41.416$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

### **DASY5 Configuration:**

Probe: ES3DV3 - SN3328; ConvF(6.19, 6.19, 6.19) @ 836.5 MHz; Calibrated: 3/25/2020 Electronics: DAE4 Sn1335

Sensor-Surface: 3mm (Mechanical Surface Detection)

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

Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Test Date: 2020-06-29; Ambient Temp: 20.1; Tissue Temp: 20.3

**Left Touch, LTE Band 5 Ch. 20525, Ant Internal, Standard Battery**

**Mode : BandWidth 10 MHz, QPSK, RB Size: 1**

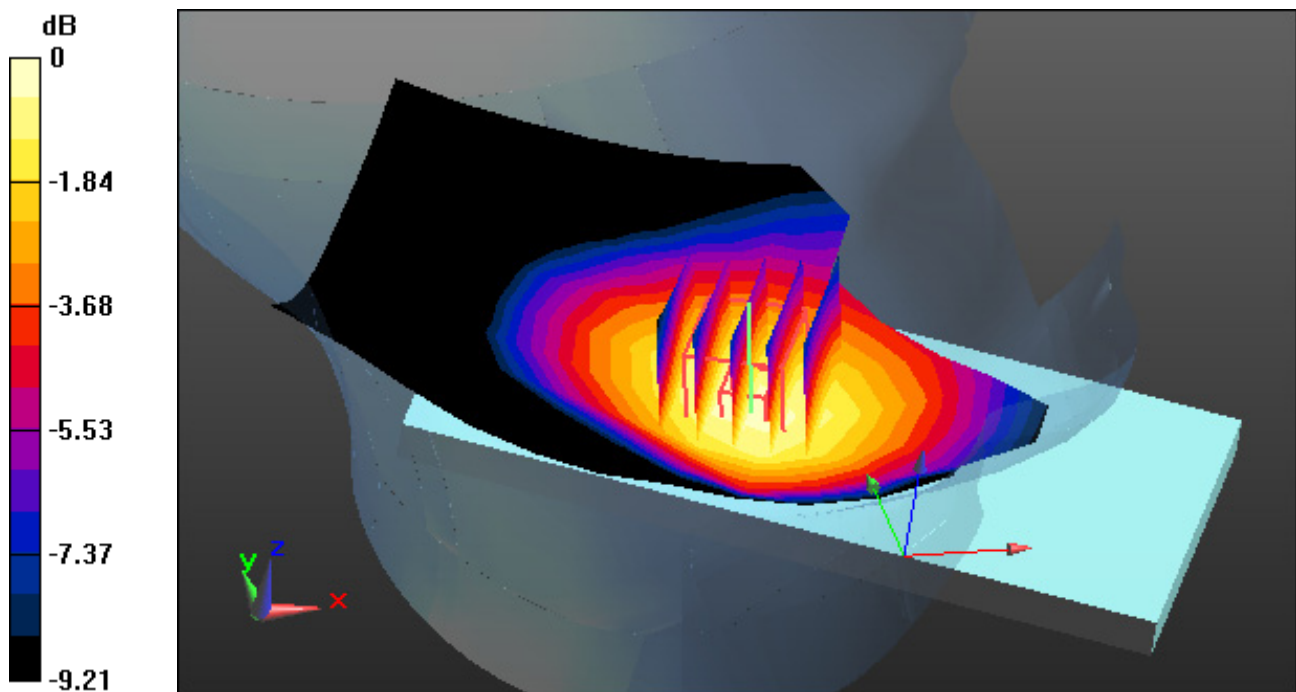
**Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm

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

Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.215 W/kg

**SAR(1 g) = 0.173 W/kg; SAR(10 g) = 0.130 W/kg**



0 dB = 0.193 W/kg

## DT&C Co., Ltd.

**DUT: VF550; Type: Bar**

Communication System: UID 0, LTE Band 66 (0); Frequency: 1745 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1745 \text{ MHz}$ ;  $\sigma = 1.344 \text{ S/m}$ ;  $\epsilon_r = 38.824$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

### **DASY5 Configuration:**

Probe: ES3DV3 - SN3328; ConvF(5.34, 5.34, 5.34) @ 1745 MHz; Calibrated: 3/25/2020 Electronics: DAE4 Sn1335

Sensor-Surface: 3mm (Mechanical Surface Detection)

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

Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Test Date: 2020-06-30; Ambient Temp: 20.4; Tissue Temp: 20.2

**Right Touch, LTE Band 66 Ch. 132322, Ant Internal, Standard Battery**

**Mode : BandWidth 20 MHz, QPSK, RB Size: 1**

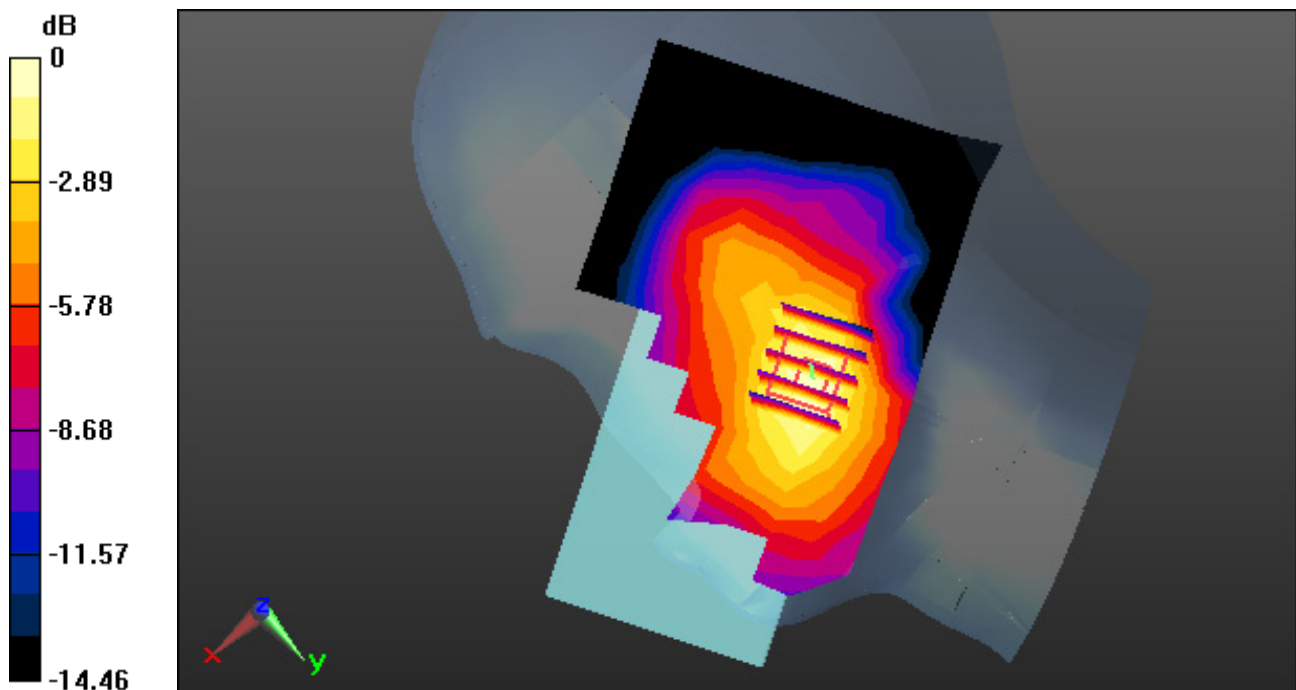
**Area Scan (9x14x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.564 W/kg

**SAR(1 g) = 0.387 W/kg; SAR(10 g) = 0.252 W/kg**



0 dB = 0.449 W/kg

## DT&C Co., Ltd.

**DUT: VF550; Type: Bar**

Communication System: UID 0, LTE Band 2 (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.401 \text{ S/m}$ ;  $\epsilon_r = 40.052$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

### **DASY5 Configuration:**

Probe: ES3DV3 - SN3328; ConvF(5.09, 5.09, 5.09) @ 1880 MHz; Calibrated: 3/25/2020 Electronics: DAE4 Sn1335

Sensor-Surface: 3mm (Mechanical Surface Detection)

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

Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Test Date: 2020-07-01; Ambient Temp: 20.6; Tissue Temp: 20.5

**Right Touch, LTE Band 2 Ch. 18900, Ant Internal, Standard Battery**

**Mode : BandWidth 20 MHz, QPSK, RB Size: 1**

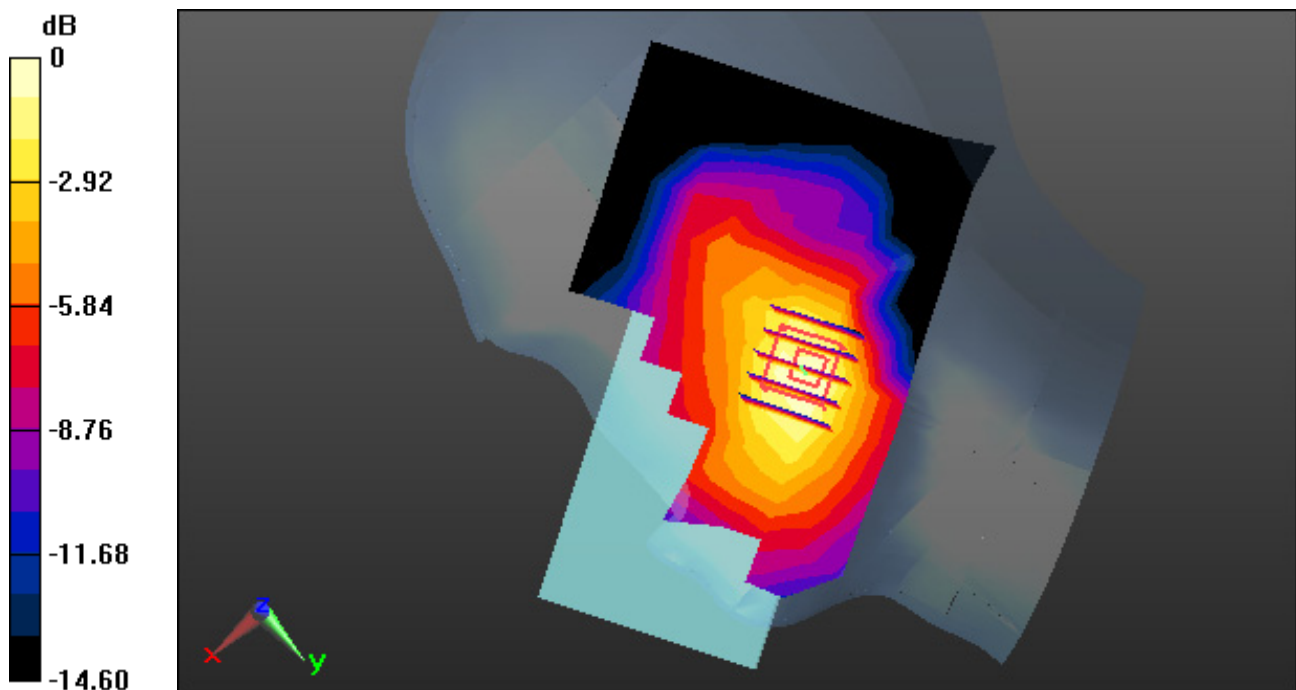
**Area Scan (9x14x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Power Drift = 0.11

Peak SAR (extrapolated) = 0.458 W/kg

**SAR(1 g) = 0.309 W/kg; SAR(10 g) = 0.196 W/kg**



0 dB = 0.358 W/kg

## DT&C Co., Ltd.

**DUT: VF550; Type: Bar**

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

Medium parameters used:  $f = 2437 \text{ MHz}$ ;  $\sigma = 1.823 \text{ S/m}$ ;  $\epsilon_r = 39.053$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3933; ConvF(7.84, 7.84, 7.84) @ 2437 MHz; Calibrated: 9/27/2019 Electronics: DAE3 Sn520

Sensor-Surface: 2mm (Mechanical Surface Detection)

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

Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Test Date: 2020-06-29; Ambient Temp: 20.6; Tissue Temp: 20.5

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

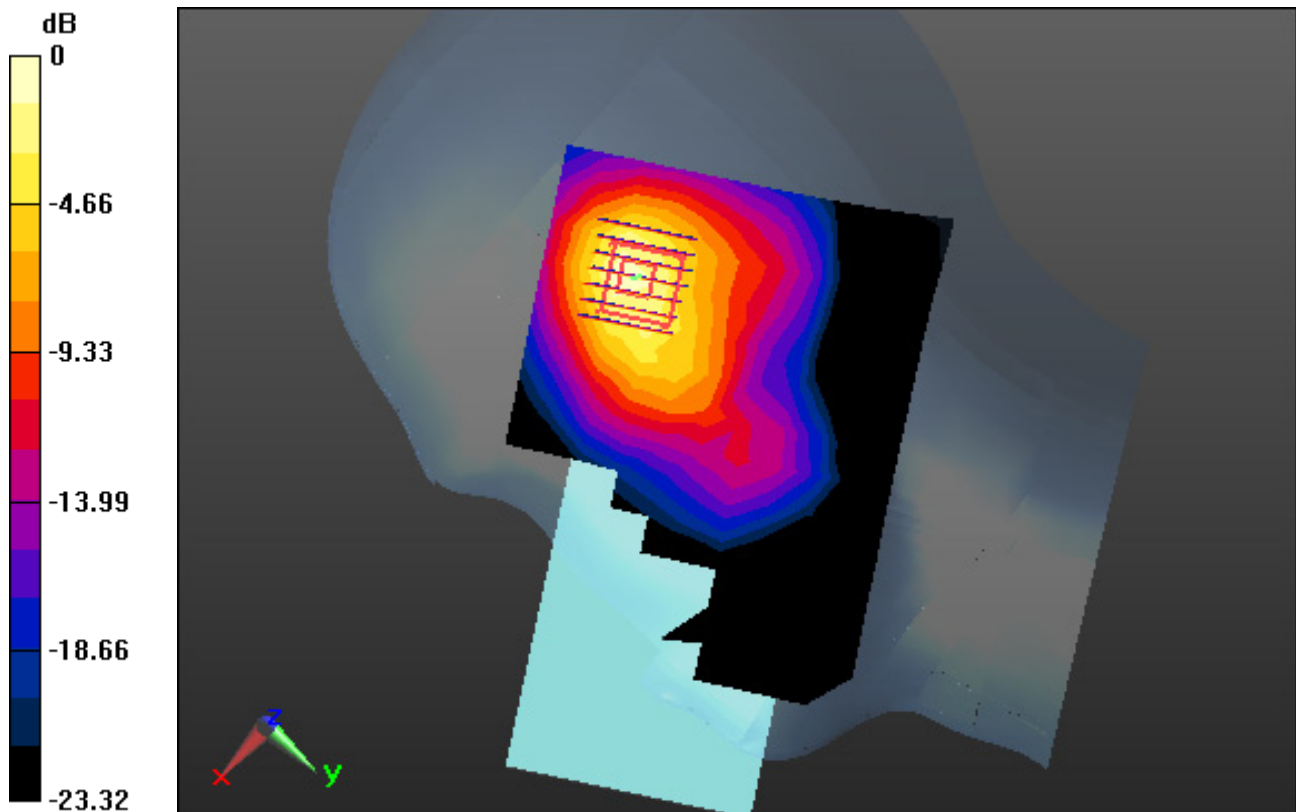
**Area Scan (11x17x1):** Measurement grid:  $dx=12\text{mm}$ ,  $dy=12\text{mm}$

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

Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.92 W/kg

**SAR(1 g) = 0.912 W/kg; SAR(10 g) = 0.445 W/kg**



0 dB = 1.42 W/kg

## DT&C Co., Ltd.

**DUT: VF550; Type: Bar**

Communication System: UID 0, W-LAN\_5 GHz(FCC) (0); Frequency: 5260 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5260 \text{ MHz}$ ;  $\sigma = 4.849 \text{ S/m}$ ;  $\epsilon_r = 35.597$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Left Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3933; ConvF(5.1, 5.1, 5.1) @ 5260 MHz; Calibrated: 9/27/2019 Electronics: DAE3 Sn520  
Sensor-Surface: 1.4mm (Mechanical Surface Detection)  
Phantom: SAM with CRP\_2013\_10\_08\_right; Type: QD000P40CD; Serial: TP:1785  
Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Test Date: 2020-06-30; Ambient Temp: 20.7; Tissue Temp: 20.4

**Left Touch, WLAN(802.11a) Ch. 52, Ant Internal, Standard Battery**

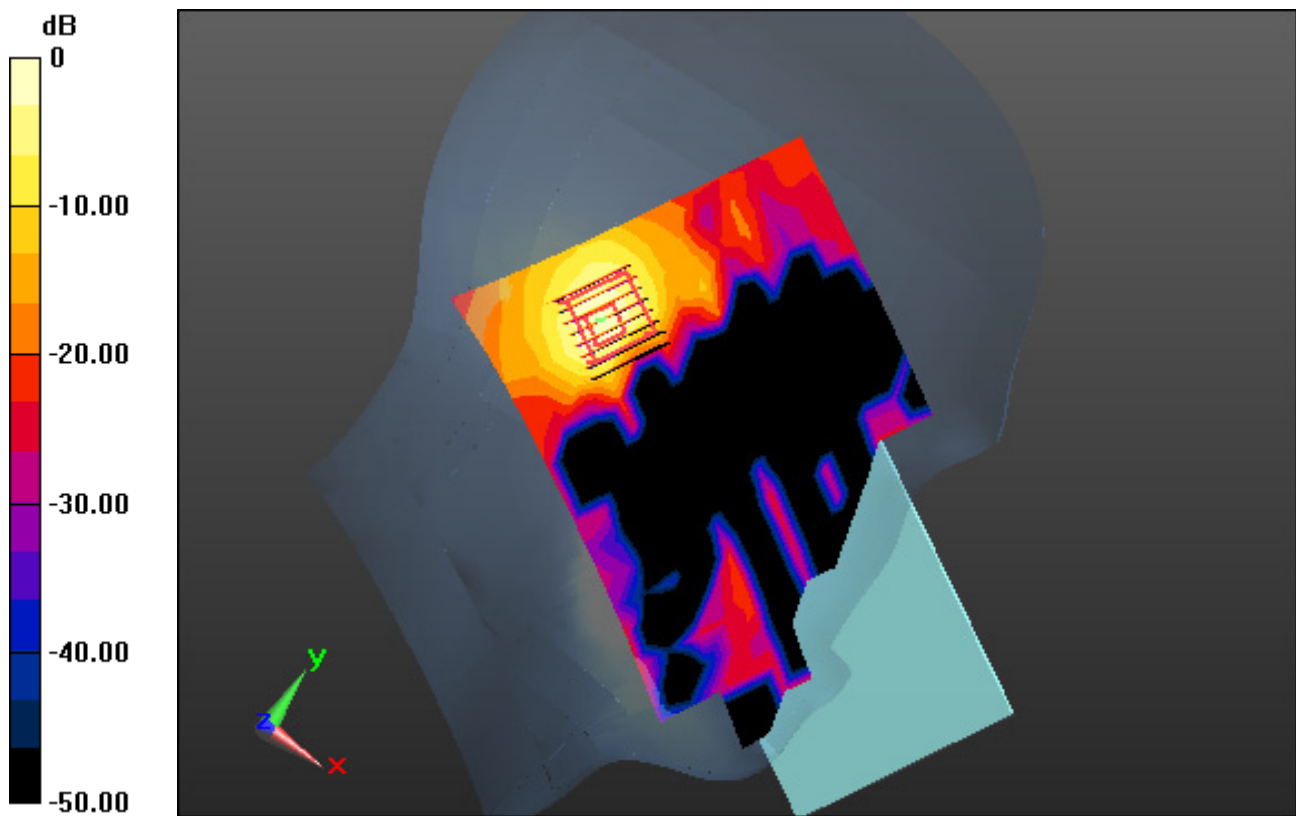
**Area Scan (13x21x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

**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 = 0.03 dB

Peak SAR (extrapolated) = 1.14 W/kg

**SAR(1 g) = 0.343 W/kg; SAR(10 g) = 0.116 W/kg**



0 dB = 0.742 W/kg

## DT&C Co., Ltd.

**DUT: VF550; Type: Bar**

Communication System: UID 0, W-LAN\_5600 (0); Frequency: 5720 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5720$  MHz;  $\sigma = 5.265$  S/m;  $\epsilon_r = 34.279$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3933; ConvF(4.75, 4.75, 4.75) @ 5720 MHz; Calibrated: 9/27/2019 Electronics: DAE3  
Sn520

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Phantom: SAM with CRP\_2013\_10\_08\_right; Type: QD000P40CD; Serial: TP:1785

Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Test Date: 2020-07-01; Ambient Temp: 20.7; Tissue Temp: 20.3

**Right Touch, WLAN(802.11a) Ch. 144, Ant Internal, Standard Battery**

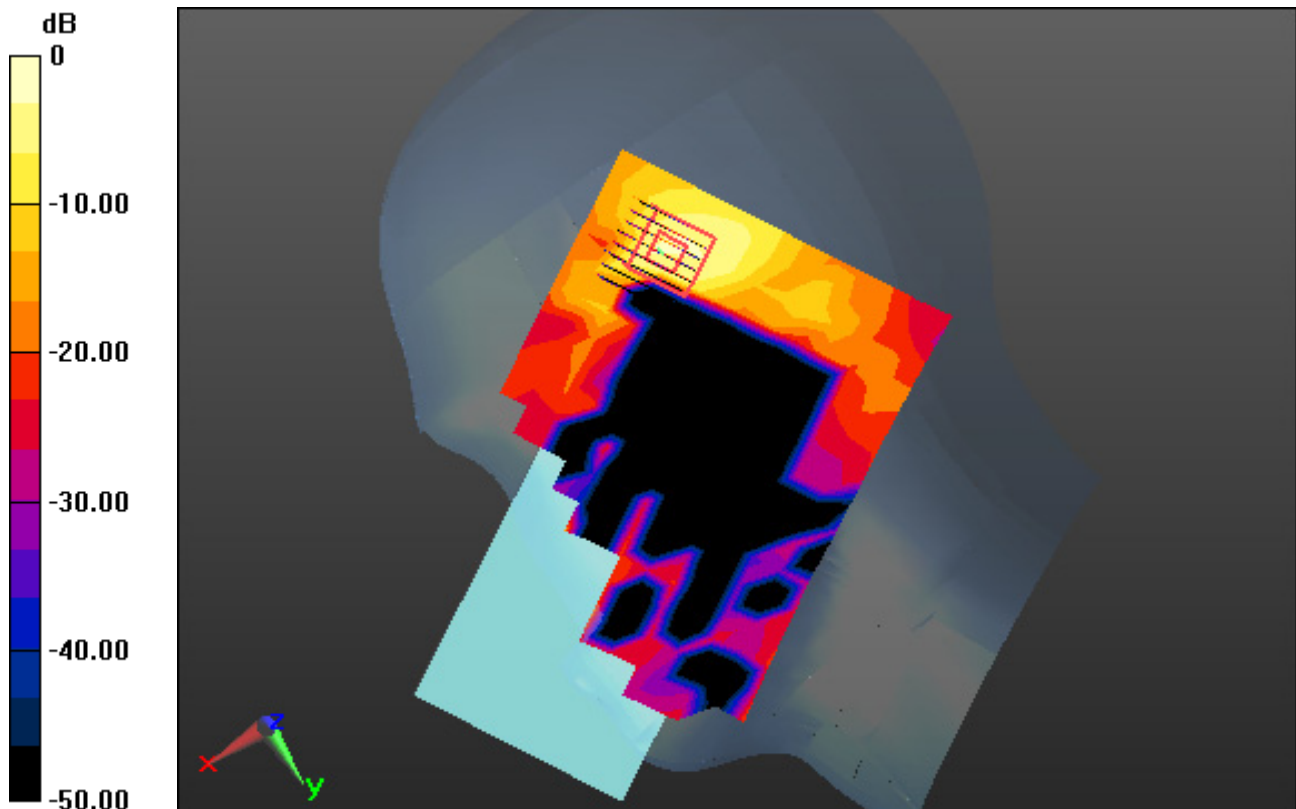
**Area Scan (13x21x1):** Measurement grid: dx=10mm, dy=10mm

**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) = 1.25 W/kg

**SAR(1 g) = 0.237 W/kg; SAR(10 g) = 0.060 W/kg**



0 dB = 0.698 W/kg

## DT&C Co., Ltd.

**DUT: VF550; Type: Bar**

Communication System: UID 0, W-LAN\_5800 (0); Frequency: 5745 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5745 \text{ MHz}$ ;  $\sigma = 5.386 \text{ S/m}$ ;  $\epsilon_r = 35.016$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3933; ConvF(4.75, 4.75, 4.75) @ 5745 MHz; Calibrated: 9/27/2019 Electronics: DAE3  
Sn520

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Phantom: SAM with CRP\_2013\_10\_08\_right; Type: QD000P40CD; Serial: TP:1785

Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Test Date: 2020-07-02; Ambient Temp: 20.9; Tissue Temp: 20.6

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

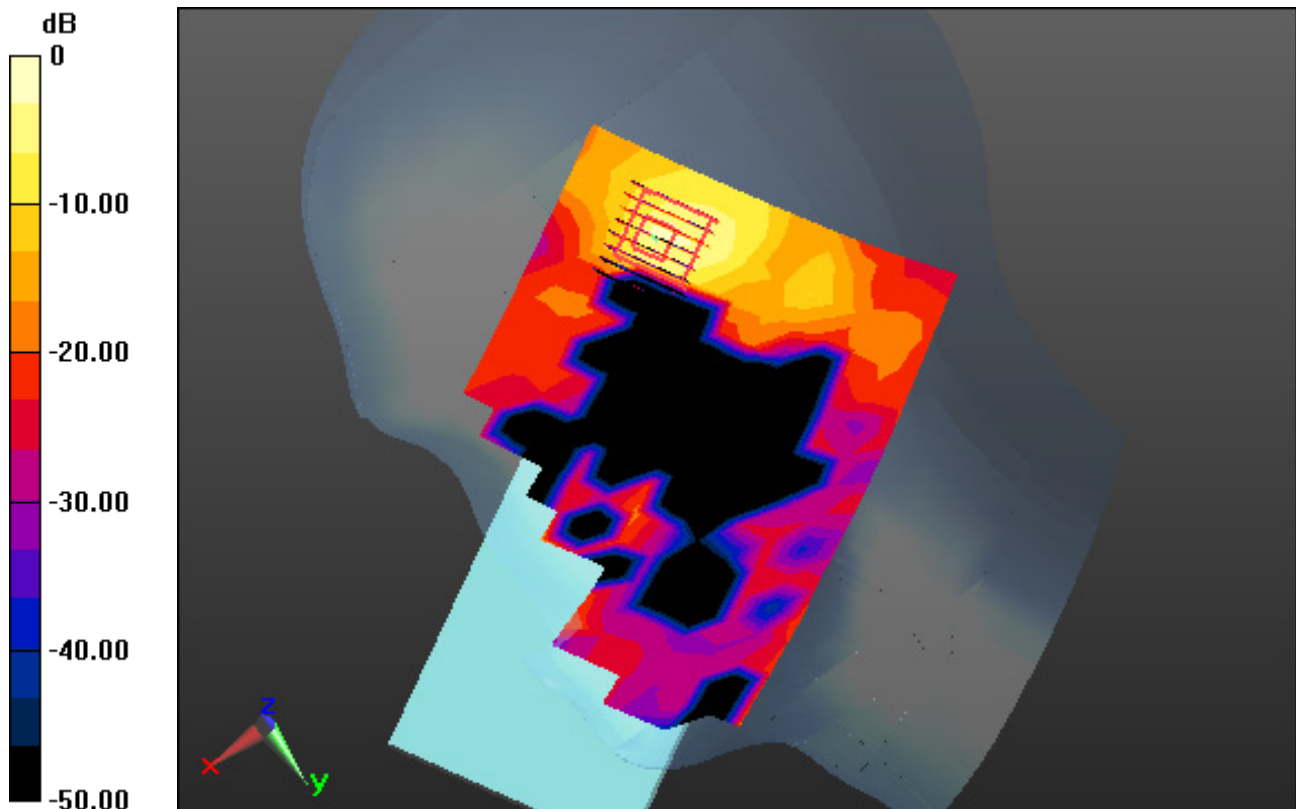
**Area Scan (13x21x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

**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) = 1.26 W/kg

**SAR(1 g) = 0.250 W/kg; SAR(10 g) = 0.068 W/kg**



0 dB = 0.753 W/kg

## DT&C Co., Ltd.

**DUT: VF550; Type: Bar**

Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz; Duty Cycle: 1:1.302

Medium parameters used:  $f = 2441$  MHz;  $\sigma = 1.828$  S/m;  $\epsilon_r = 39.037$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3933; ConvF(7.84, 7.84, 7.84) @ 2441 MHz; Calibrated: 9/27/2019 Electronics: DAE3  
Sn520

Sensor-Surface: 2mm (Mechanical Surface Detection)

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

Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Test Date: 2020-06-29; Ambient Temp: 20.6; Tissue Temp: 20.5

**Right Touch, Bluetooth 1 Mbs Ch. 39, Ant Internal, Standard Battery**

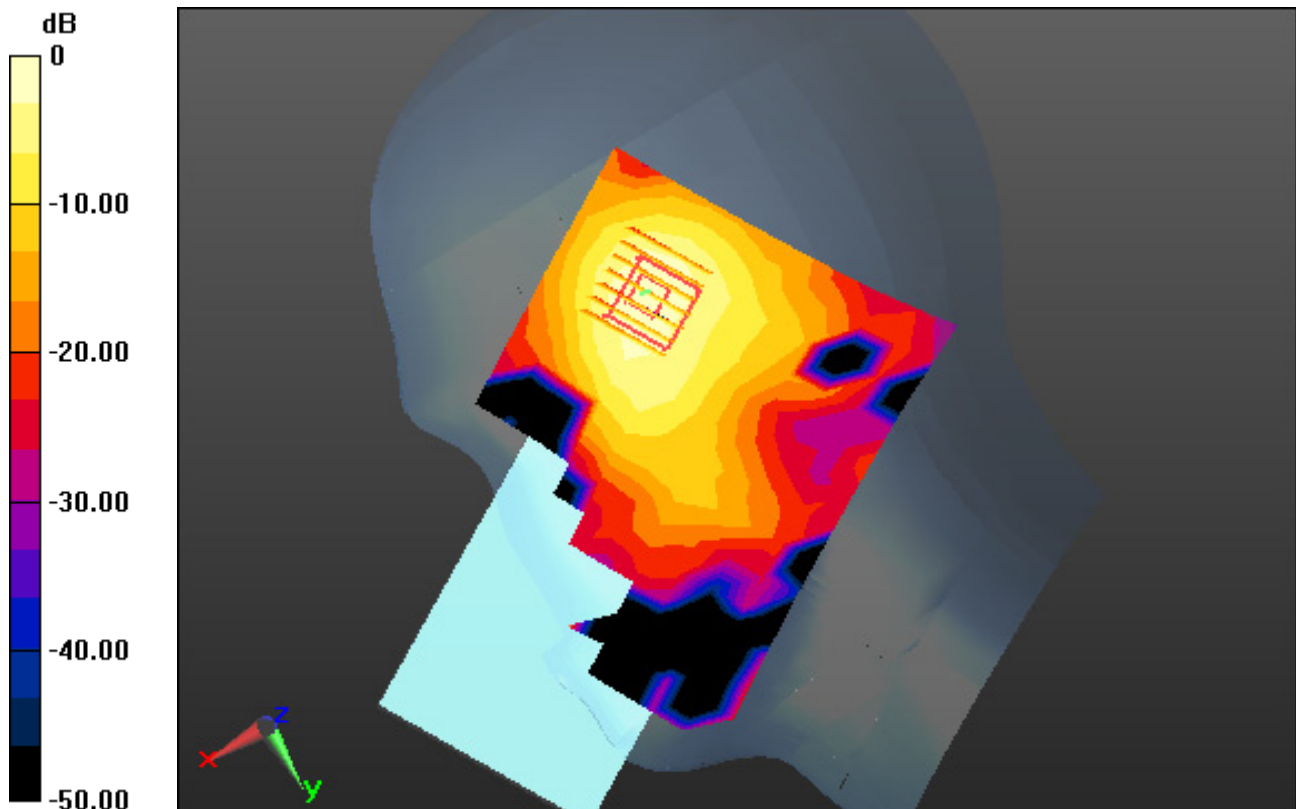
**Area Scan (11x17x1):** Measurement grid: dx=12mm, dy=12mm

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

Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.185 W/kg

**SAR(1 g) = 0.090 W/kg; SAR(10 g) = 0.045 W/kg**



0 dB = 0.133 W/kg

## DT&C Co., Ltd.

**DUT: VF550; Type: Bar**

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

Medium parameters used:  $f = 836.6$  MHz;  $\sigma = 0.903$  S/m;  $\epsilon_r = 41.415$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: ES3DV3 - SN3328; ConvF(6.19, 6.19, 6.19) @ 836.6 MHz; Calibrated: 3/25/2020 Electronics: DAE4 Sn1335

Sensor-Surface: 3mm (Mechanical Surface Detection)

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

Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Test Date: 2020-06-29; Ambient Temp: 20.1; Tissue Temp: 20.3

**1 cm space from Body, Rear, WCDMA Band 5 Ch. 4183, Ant Internal**

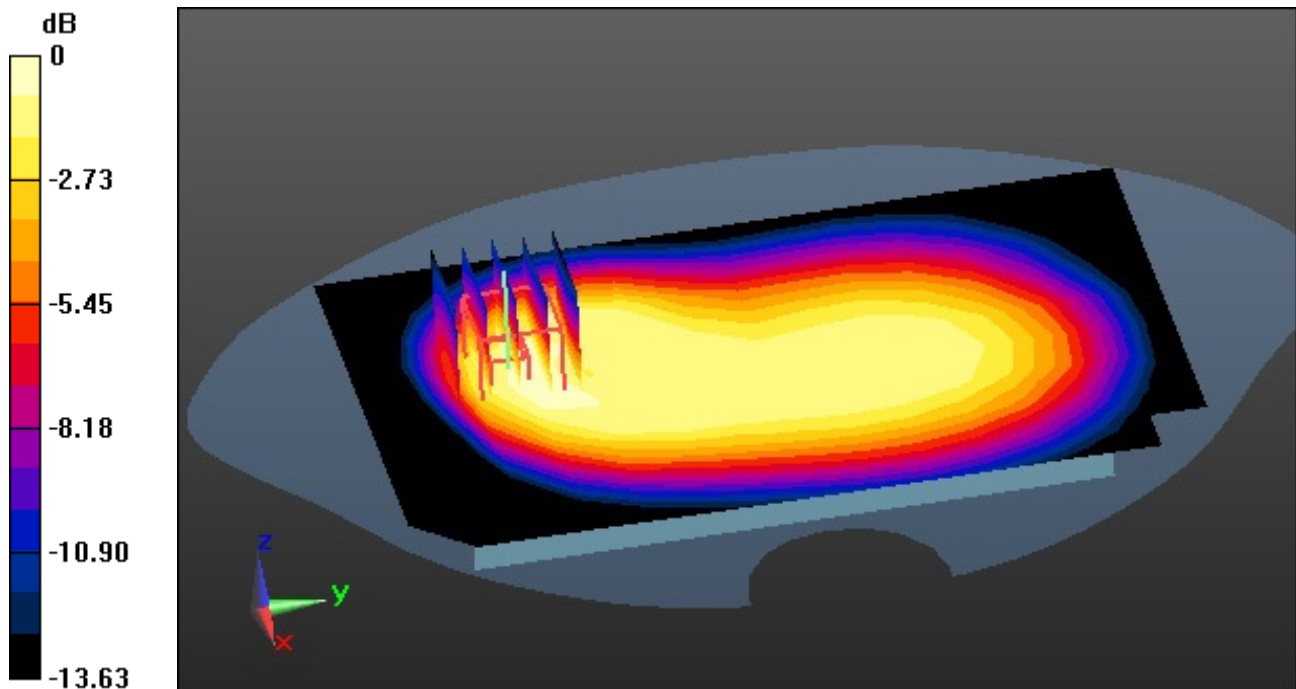
**Area Scan (10x15x1):** Measurement grid: dx=15mm, dy=15mm

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

Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.560 W/kg

**SAR(1 g) = 0.314 W/kg; SAR(10 g) = 0.174 W/kg**



0 dB = 0.320 W/kg

## DT&C Co., Ltd.

**DUT: VF550; Type: Bar**

Communication System: UID 0, WCDMA Band 4 (FCC) (0); Frequency: 1732.4 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1732.4$  MHz;  $\sigma = 1.332$  S/m;  $\epsilon_r = 38.879$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: ES3DV3 - SN3328; ConvF(5.34, 5.34, 5.34) @ 1732.4 MHz; Calibrated: 3/25/2020 Electronics: DAE4 Sn1335

Sensor-Surface: 3mm (Mechanical Surface Detection)

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

Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Test Date: 2020-06-30; Ambient Temp: 20.4; Tissue Temp: 20.2

**1 cm space from Body, Rear, WCDMA Band 4 Ch. 1412, Ant Internal**

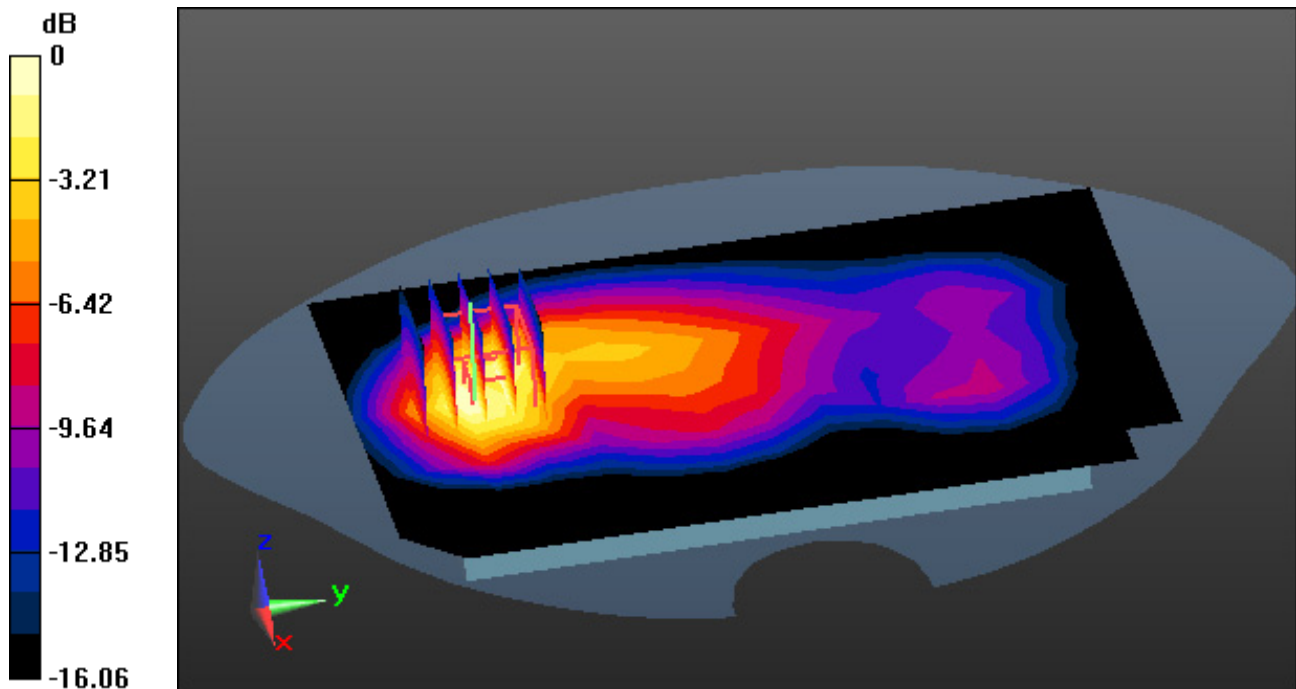
**Area Scan (10x15x1):** Measurement grid: dx=15mm, dy=15mm

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

Power Drift = -0.18 dB

Peak SAR (extrapolated) = 1.63 W/kg

**SAR(1 g) = 0.989 W/kg; SAR(10 g) = 0.547 W/kg**



0 dB = 1.11 W/kg

## DT&C Co., Ltd.

**DUT: VF550; Type: Bar**

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

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.401$  S/m;  $\epsilon_r = 40.052$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: ES3DV3 - SN3328; ConvF(5.09, 5.09, 5.09) @ 1880 MHz; Calibrated: 3/25/2020 Electronics: DAE4 Sn1335

Sensor-Surface: 3mm (Mechanical Surface Detection)

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

Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Test Date: 2020-07-01; Ambient Temp: 20.6; Tissue Temp: 20.5

**1 cm space from Body, Rear, WCDMA Band 2 Ch. 9400, Ant Internal**

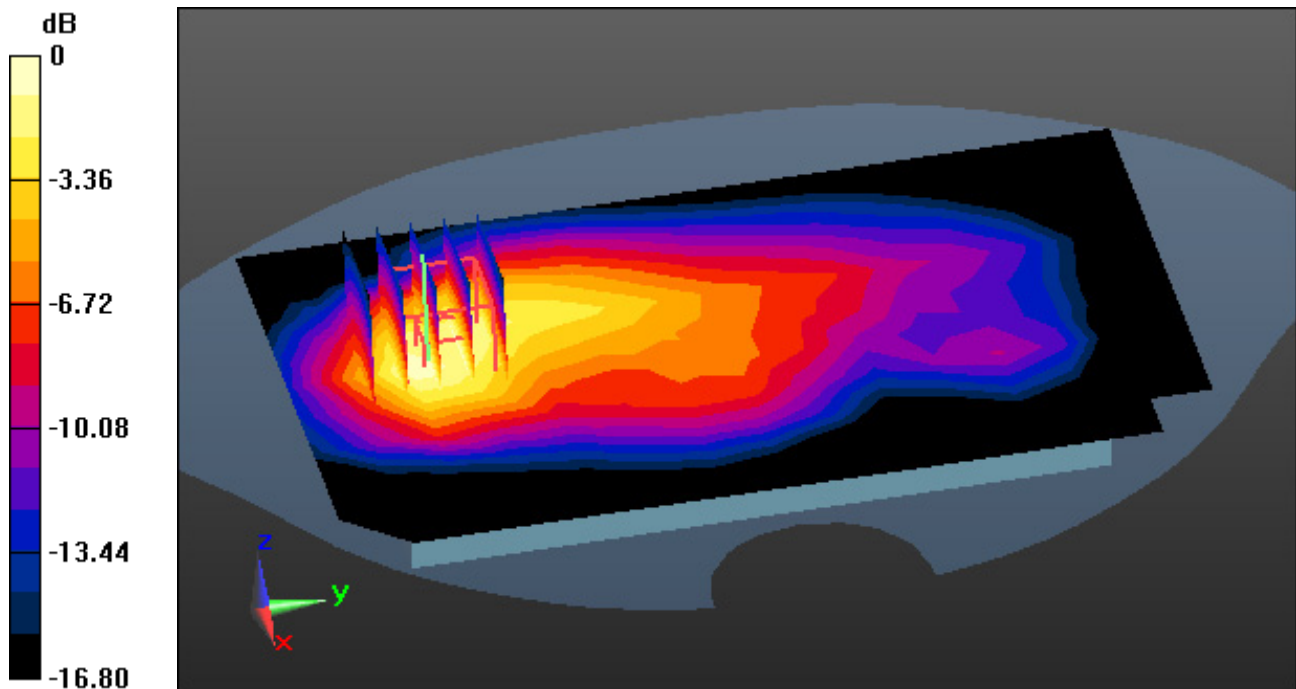
**Area Scan (10x15x1):** Measurement grid: dx=15mm, dy=15mm

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

Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.814 W/kg

**SAR(1 g) = 0.487 W/kg; SAR(10 g) = 0.272 W/kg**



0 dB = 0.574 W/kg

## DT&C Co., Ltd.

**DUT: VF550; Type: Bar**

Communication System: UID 0, LTE Band 71 (0); Frequency: 680.5 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 680.5 \text{ MHz}$ ;  $\sigma = 0.914 \text{ S/m}$ ;  $\epsilon_r = 42.373$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: ET3DV6R - SN1703; ConvF(7.07, 7.07, 7.07) @ 680.5 MHz; Calibrated: 7/23/2019 Electronics: DAE3 Sn520

Sensor-Surface: 4mm (Mechanical Surface Detection)

Phantom: SAM with CRP\_2013\_10\_08\_right; Type: QD000P40CD; Serial: TP:1785

Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Test Date: 2020-07-03; Ambient Temp: 20.4; Tissue Temp: 20.6

**1 cm space from Body, Rear, LTE Band 71 Ch. 133297, Ant Internal**

**Mode : BandWidth 20 MHz, QPSK, RB Size: 1**

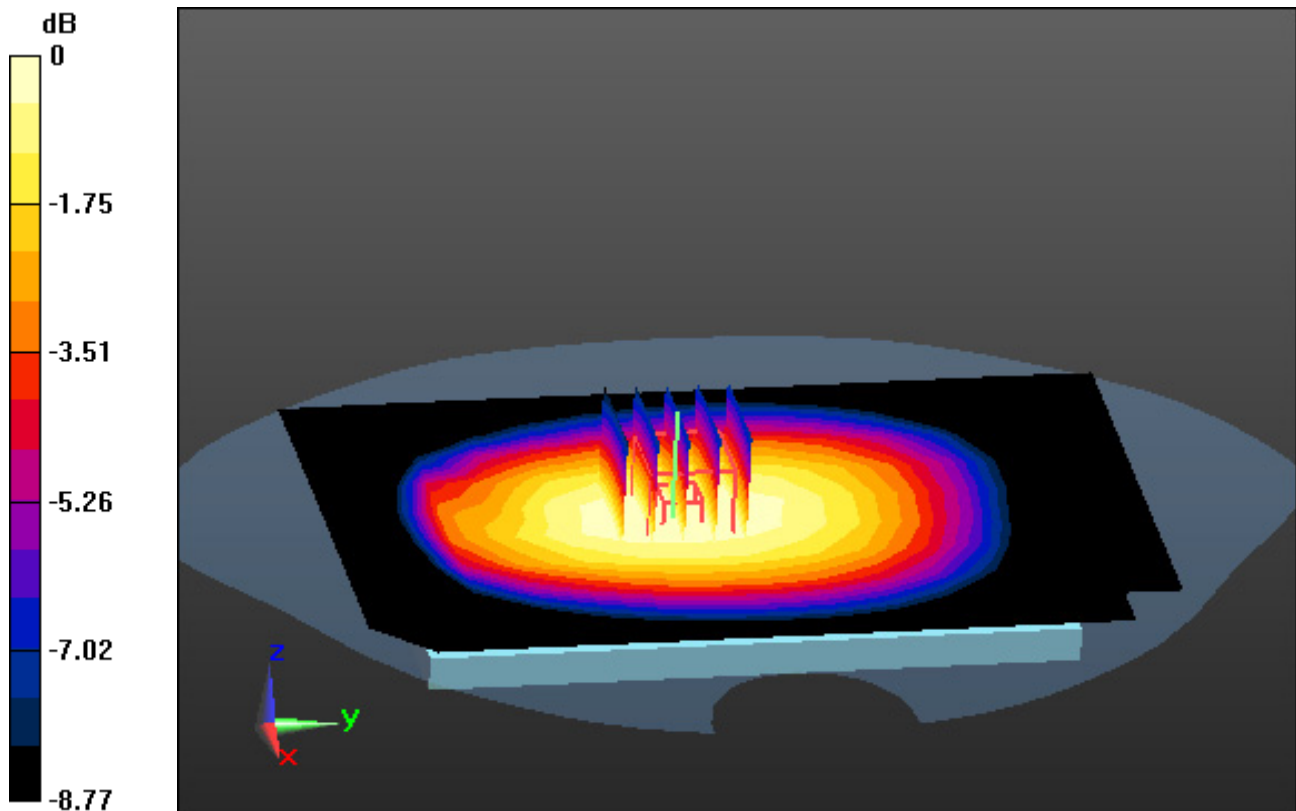
**Area Scan (10x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**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) = 0.281 W/kg

**SAR(1 g) = 0.211 W/kg; SAR(10 g) = 0.158 W/kg**



0 dB = 0.221 W/kg

## DT&C Co., Ltd.

**DUT: VF550; Type: Bar**

Communication System: UID 0, LTE Band 12 (FCC) (0); Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 707.5 \text{ MHz}$ ;  $\sigma = 0.881 \text{ S/m}$ ;  $\epsilon_r = 42.635$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: ES3DV3 - SN3328; ConvF(6.34, 6.34, 6.34) @ 707.5 MHz; Calibrated: 3/25/2020 Electronics: DAE4 Sn1335

Sensor-Surface: 3mm (Mechanical Surface Detection)

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

Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Test Date: 2020-07-02; Ambient Temp: 20.2; Tissue Temp: 20.3

**1 cm space from Body, Rear, LTE Band 12 Ch. 23095, Ant Internal**

**Mode : BandWidth 10 MHz, QPSK, RB Size: 1**

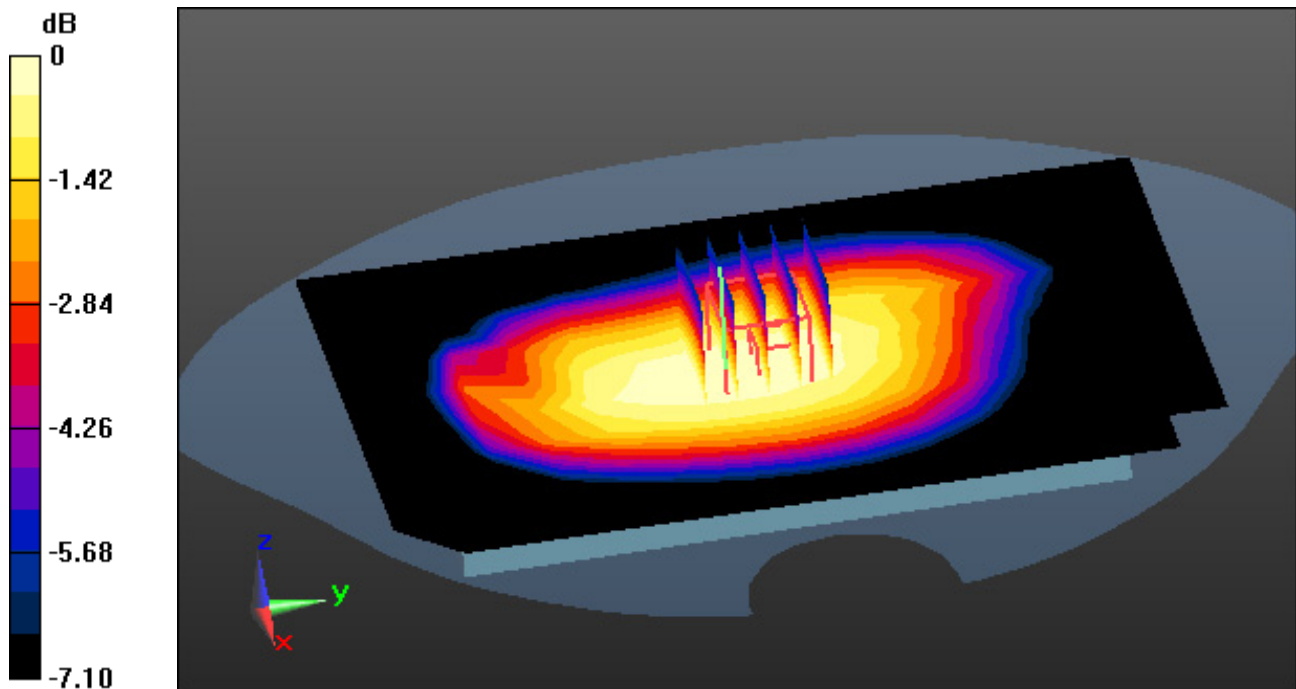
**Area Scan (10x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**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) = 0.205 W/kg

**SAR(1 g) = 0.172 W/kg; SAR(10 g) = 0.137 W/kg**



0 dB = 0.186 W/kg

## DT&C Co., Ltd.

**DUT: VF550; Type: Bar**

Communication System: UID 0, LTE Band 13 (0); Frequency: 782 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 782 \text{ MHz}$ ;  $\sigma = 0.922 \text{ S/m}$ ;  $\epsilon_r = 41.608$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: ES3DV3 - SN3328; ConvF(6.34, 6.34, 6.34) @ 782 MHz; Calibrated: 3/25/2020 Electronics: DAE4 Sn1335

Sensor-Surface: 3mm (Mechanical Surface Detection)

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

Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Test Date: 2020-07-02; Ambient Temp: 20.2; Tissue Temp: 20.3

**1 cm space from Body, Rear, LTE Band 13 Ch. 23230, Ant Internal**

**Mode : BandWidth 10 MHz, QPSK, RB Size: 1**

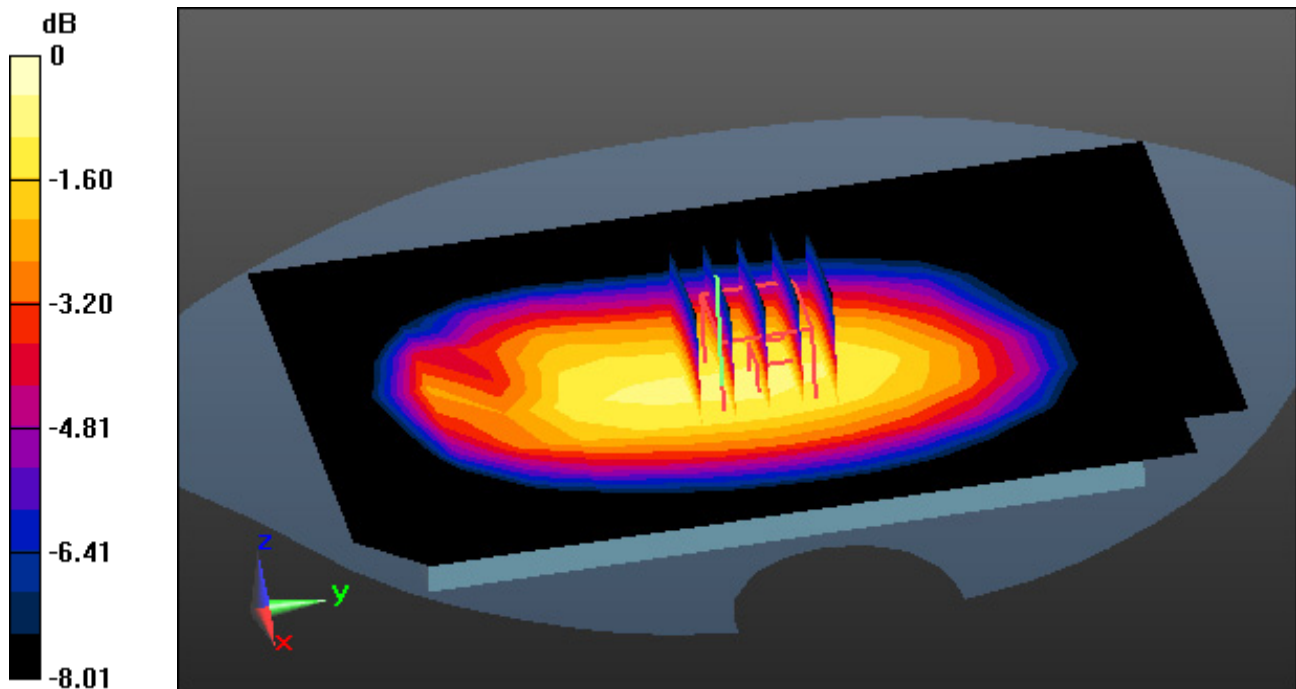
**Area Scan (10x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.415 W/kg

**SAR(1 g) = 0.344 W/kg; SAR(10 g) = 0.266 W/kg**



0 dB = 0.350 W/kg

## DT&C Co., Ltd.

**DUT: VF550; Type: Bar**

Communication System: UID 0, LTE Band 5 (FCC) (0); Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 836.5 \text{ MHz}$ ;  $\sigma = 0.903 \text{ S/m}$ ;  $\epsilon_r = 41.416$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: ES3DV3 - SN3328; ConvF(6.19, 6.19, 6.19) @ 836.5 MHz; Calibrated: 3/25/2020 Electronics: DAE4 Sn1335

Sensor-Surface: 3mm (Mechanical Surface Detection)

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

Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Test Date: 2020-06-29; Ambient Temp: 20.1; Tissue Temp: 20.3

**1 cm space from Body, Rear, LTE Band 5 Ch. 20525, Ant Internal**

**Mode : BandWidth 10 MHz, QPSK, RB Size: 1**

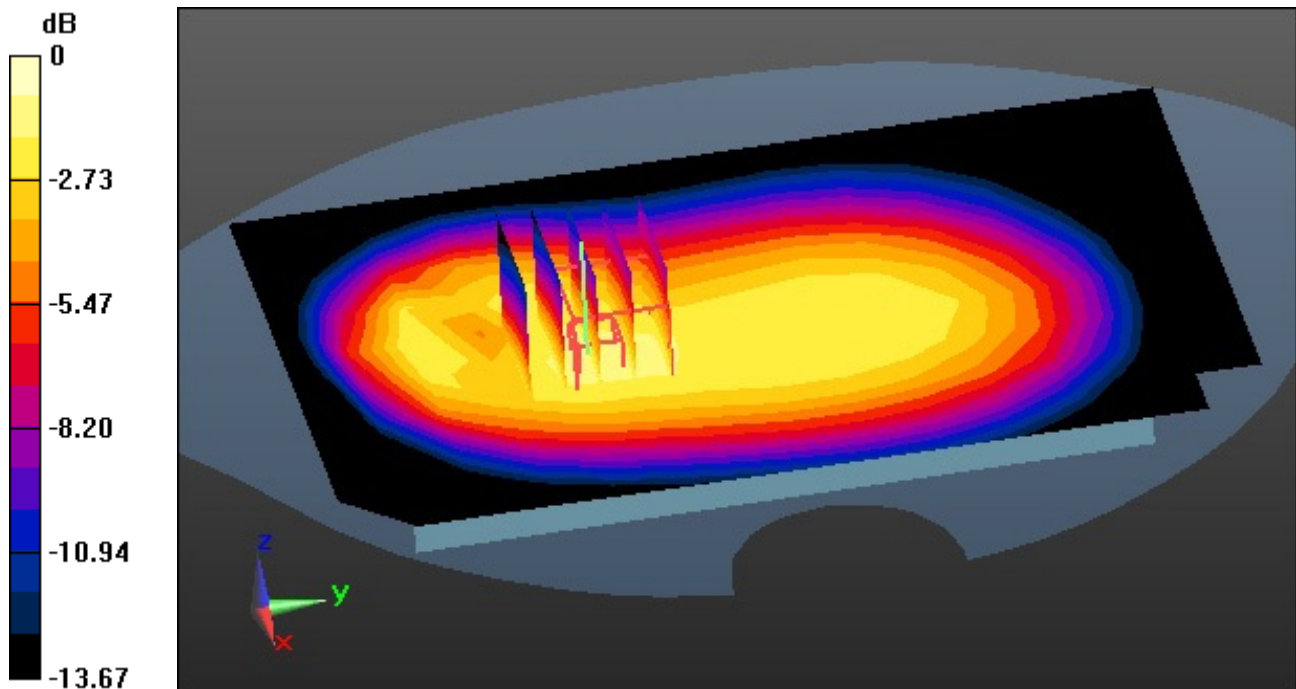
**Area Scan (10x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**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) = 0.356 W/kg

**SAR(1 g) = 0.269 W/kg; SAR(10 g) = 0.195 W/kg**



0 dB = 0.402 W/kg

## DT&C Co., Ltd.

**DUT: VF550; Type: Bar**

Communication System: UID 0, LTE Band 66 (0); Frequency: 1745 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1745 \text{ MHz}$ ;  $\sigma = 1.344 \text{ S/m}$ ;  $\epsilon_r = 38.824$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: ES3DV3 - SN3328; ConvF(5.34, 5.34, 5.34) @ 1745 MHz; Calibrated: 3/25/2020 Electronics: DAE4 Sn1335

Sensor-Surface: 3mm (Mechanical Surface Detection)

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

Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Test Date: 2020-06-30; Ambient Temp: 20.4; Tissue Temp: 20.2

**1 cm space from Body, Rear, LTE Band 66 Ch. 132322, Ant Internal**

**Mode : BandWidth 20 MHz, QPSK, RB Size: 1**

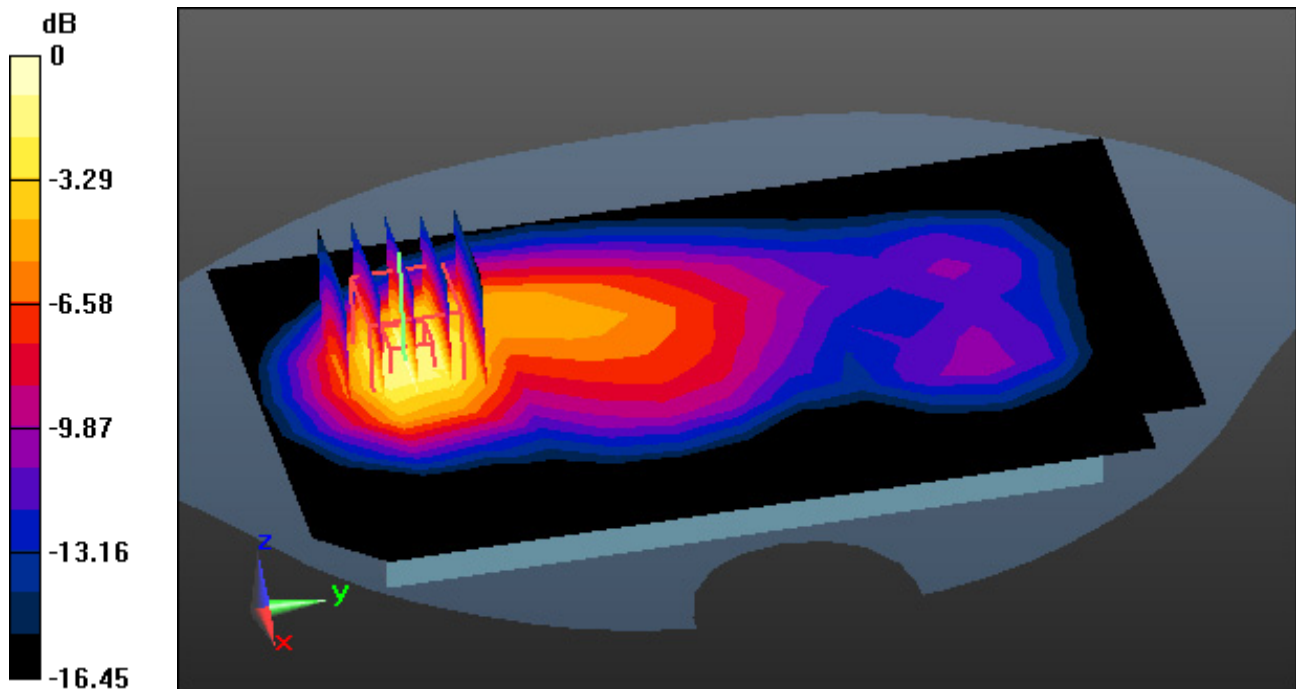
**Area Scan (10x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.60 W/kg

**SAR(1 g) = 0.973 W/kg; SAR(10 g) = 0.538 W/kg**



0 dB = 1.16 W/kg

## DT&C Co., Ltd.

**DUT: VF550; Type: Bar**

Communication System: UID 0, LTE Band 2 (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.401$  S/m;  $\epsilon_r = 40.052$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: ES3DV3 - SN3328; ConvF(5.09, 5.09, 5.09) @ 1880 MHz; Calibrated: 3/25/2020 Electronics: DAE4 Sn1335

Sensor-Surface: 3mm (Mechanical Surface Detection)

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

Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Test Date: 2020-07-01; Ambient Temp: 20.6; Tissue Temp: 20.5

**1 cm space from Body, Rear, LTE Band 2 Ch. 18900, Ant Internal**

**Mode : BandWidth 20 MHz, QPSK, RB Size: 1**

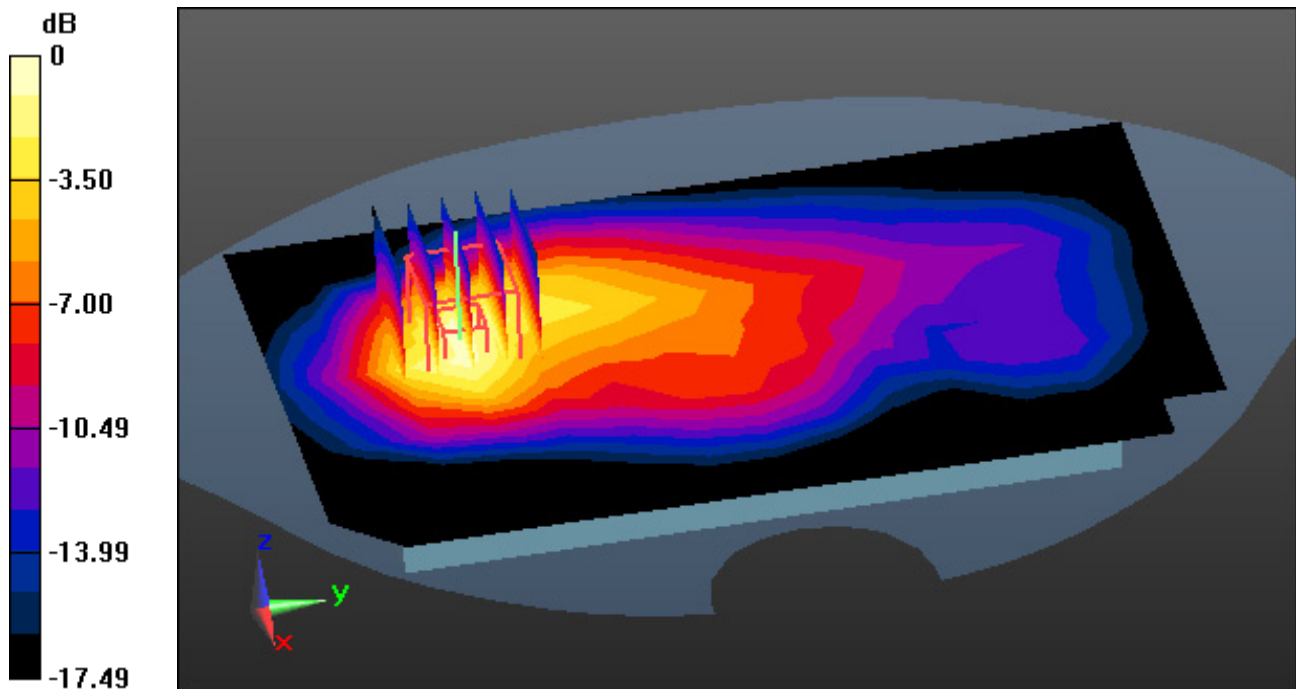
**Area Scan (10x15x1):** Measurement grid: dx=15mm, dy=15mm

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

Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.30 W/kg

**SAR(1 g) = 0.769 W/kg; SAR(10 g) = 0.426 W/kg**



0 dB = 0.953 W/kg

## DT&C Co., Ltd.

**DUT: VF550; Type: Bar**

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

Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.823$  S/m;  $\epsilon_r = 39.053$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3933; ConvF(7.84, 7.84, 7.84) @ 2437 MHz; Calibrated: 9/27/2019 Electronics: DAE3 Sn520

Sensor-Surface: 2mm (Mechanical Surface Detection)

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

Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Test Date: 2020-06-29; Ambient Temp: 20.6; Tissue Temp: 20.5

### **1 cm space from Body, Front, WLAN(802.11b) Ch. 6, Ant Internal**

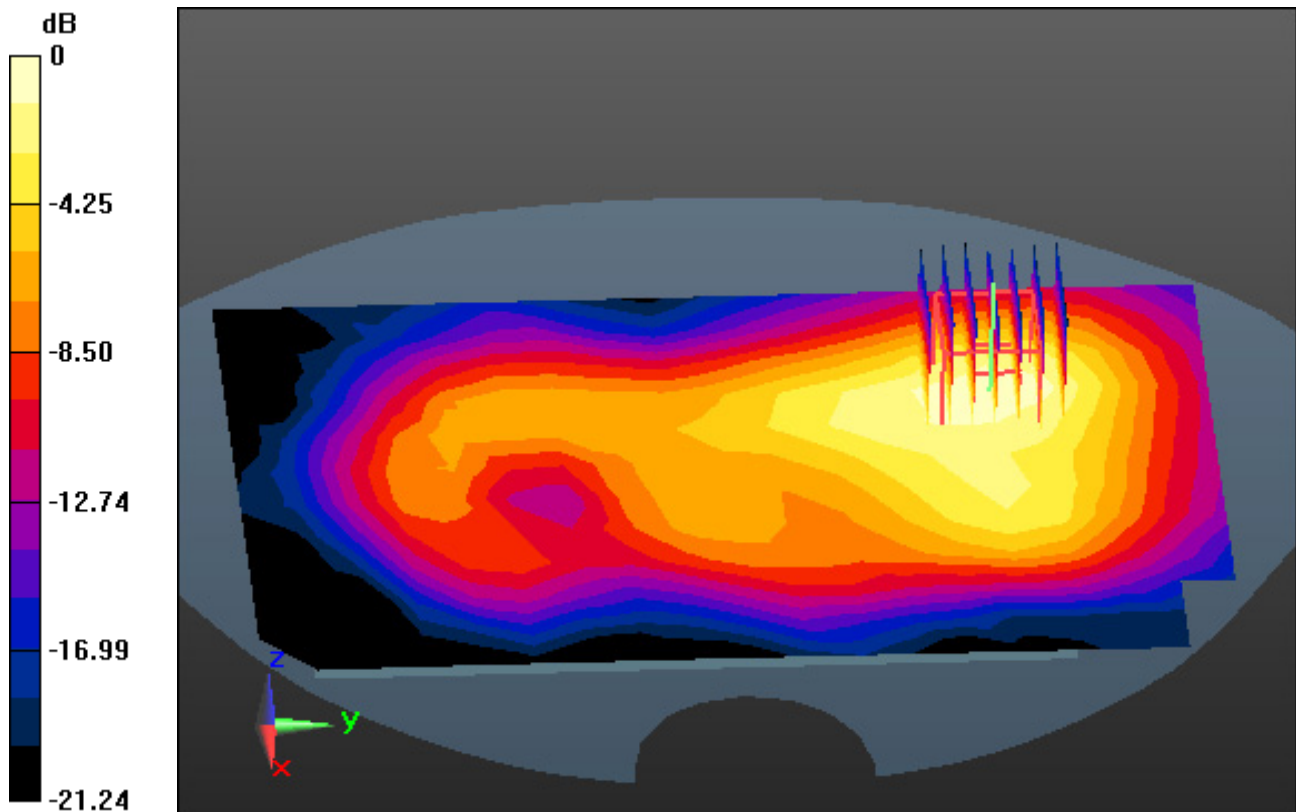
**Area Scan (12x19x1):** Measurement grid: dx=12mm, dy=12mm

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

Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.406 W/kg

**SAR(1 g) = 0.211 W/kg; SAR(10 g) = 0.113 W/kg**



0 dB = 0.304 W/kg

## DT&C Co., Ltd.

**DUT: VF550; Type: Bar**

Communication System: UID 0, W-LAN\_5300 (0); Frequency: 5260 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5260$  MHz;  $\sigma = 4.849$  S/m;  $\epsilon_r = 35.597$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3933; ConvF(5.1, 5.1, 5.1) @ 5260 MHz; Calibrated: 9/27/2019 Electronics: DAE3 Sn520

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Phantom: SAM with CRP\_2013\_10\_08\_right; Type: QD000P40CD; Serial: TP:1785

Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Test Date: 2020-06-30; Ambient Temp: 20.7; Tissue Temp: 20.4

**1 cm space from Body, Rear, WLAN(802.11a) Ch. 52, Ant Internal**

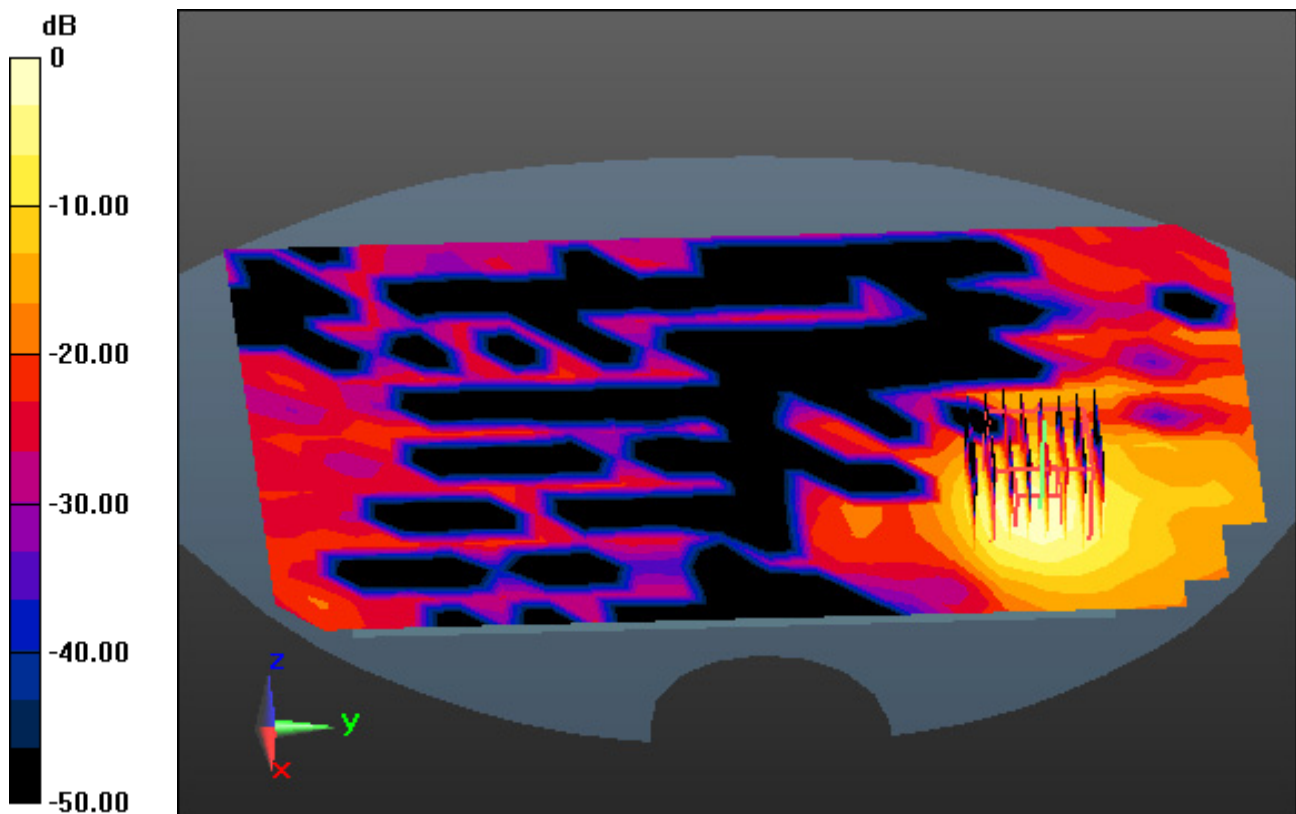
**Area Scan (15x23x1):** Measurement grid: dx=10mm, dy=10mm

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

Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.734 W/kg

**SAR(1 g) = 0.203 W/kg; SAR(10 g) = 0.066 W/kg**



0 dB = 0.459 W/kg

## DT&C Co., Ltd.

**DUT: VF550; Type: Bar**

Communication System: UID 0, W-LAN\_5600 (0); Frequency: 5720 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5720$  MHz;  $\sigma = 5.265$  S/m;  $\epsilon_r = 34.279$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3933; ConvF(4.75, 4.75, 4.75) @ 5720 MHz; Calibrated: 9/27/2019 Electronics: DAE3  
Sn520

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Phantom: SAM with CRP\_2013\_10\_08\_right; Type: QD000P40CD; Serial: TP:1785

Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Test Date: 2020-07-01; Ambient Temp: 20.7; Tissue Temp: 20.3

### **1 cm space from Body, Rear, WLAN(802.11a) Ch. 144, Ant Internal**

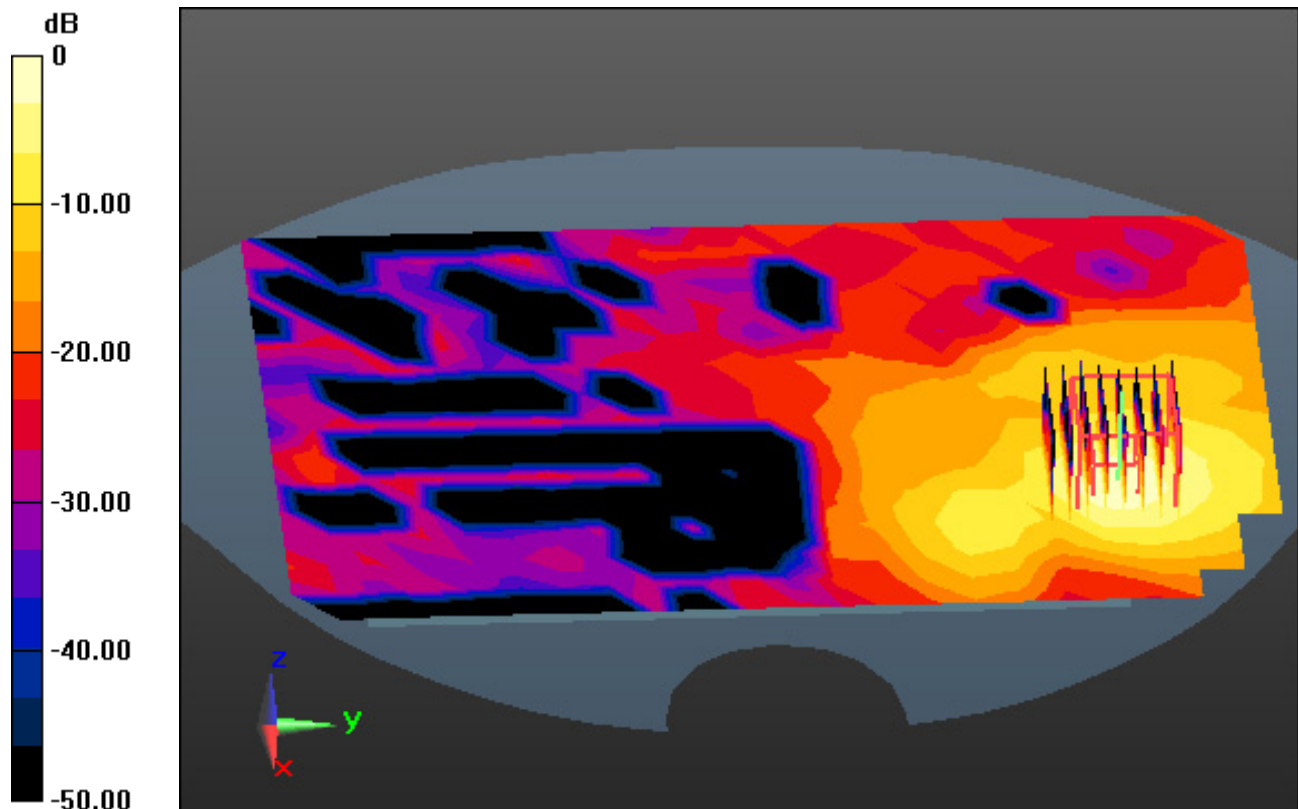
**Area Scan (15x23x1):** Measurement grid: dx=10mm, dy=10mm

**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) = 1.14 W/kg

SAR(1 g) = 0.291 W/kg; SAR(10 g) = 0.102 W/kg



0 dB = 0.694 W/kg

## DT&C Co., Ltd.

**DUT: VF550; Type: Bar**

Communication System: UID 0, W-LAN\_5800 (0); Frequency: 5745 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5745 \text{ MHz}$ ;  $\sigma = 5.386 \text{ S/m}$ ;  $\epsilon_r = 35.016$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3933; ConvF(4.75, 4.75, 4.75) @ 5745 MHz; Calibrated: 9/27/2019 Electronics: DAE3  
Sn520

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Phantom: SAM with CRP\_2013\_10\_08\_right; Type: QD000P40CD; Serial: TP:1785

Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Test Date: 2020-07-02; Ambient Temp: 20.9; Tissue Temp: 20.6

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

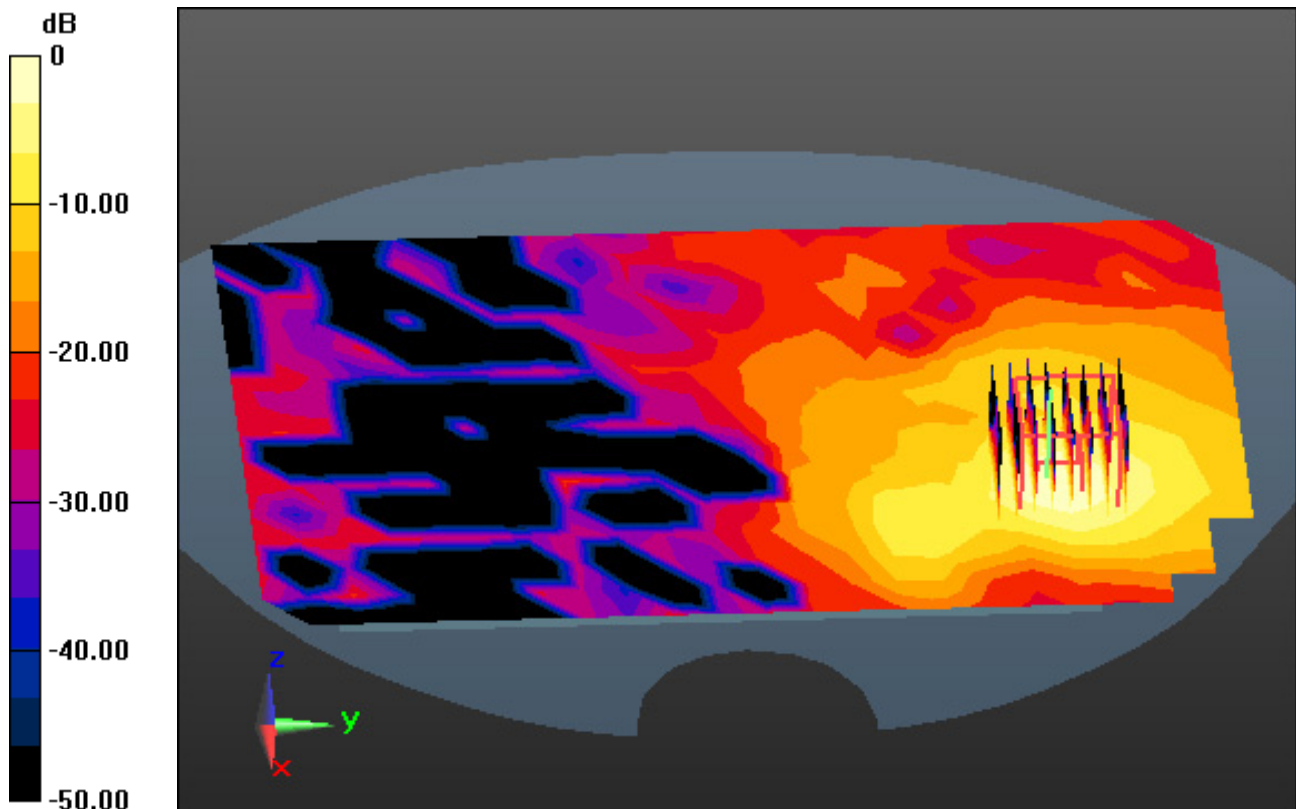
**Area Scan (15x23x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

**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 = 0.05 dB

Peak SAR (extrapolated) = 1.19 W/kg

**SAR(1 g) = 0.298 W/kg; SAR(10 g) = 0.102 W/kg**



0 dB = 0.693 W/kg

## DT&C Co., Ltd.

**DUT: VF550; Type: Bar**

Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz; Duty Cycle: 1:1.302

Medium parameters used:  $f = 2441$  MHz;  $\sigma = 1.828$  S/m;  $\epsilon_r = 39.037$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3933; ConvF(7.84, 7.84, 7.84) @ 2441 MHz; Calibrated: 9/27/2019 Electronics: DAE3 Sn520

Sensor-Surface: 2mm (Mechanical Surface Detection)

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

Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Test Date: 2020-06-29; Ambient Temp: 20.6; Tissue Temp: 20.5

**1 cm space from Body, Front, Bluetooth 1 Mbps Ch. 39, Ant Internal**

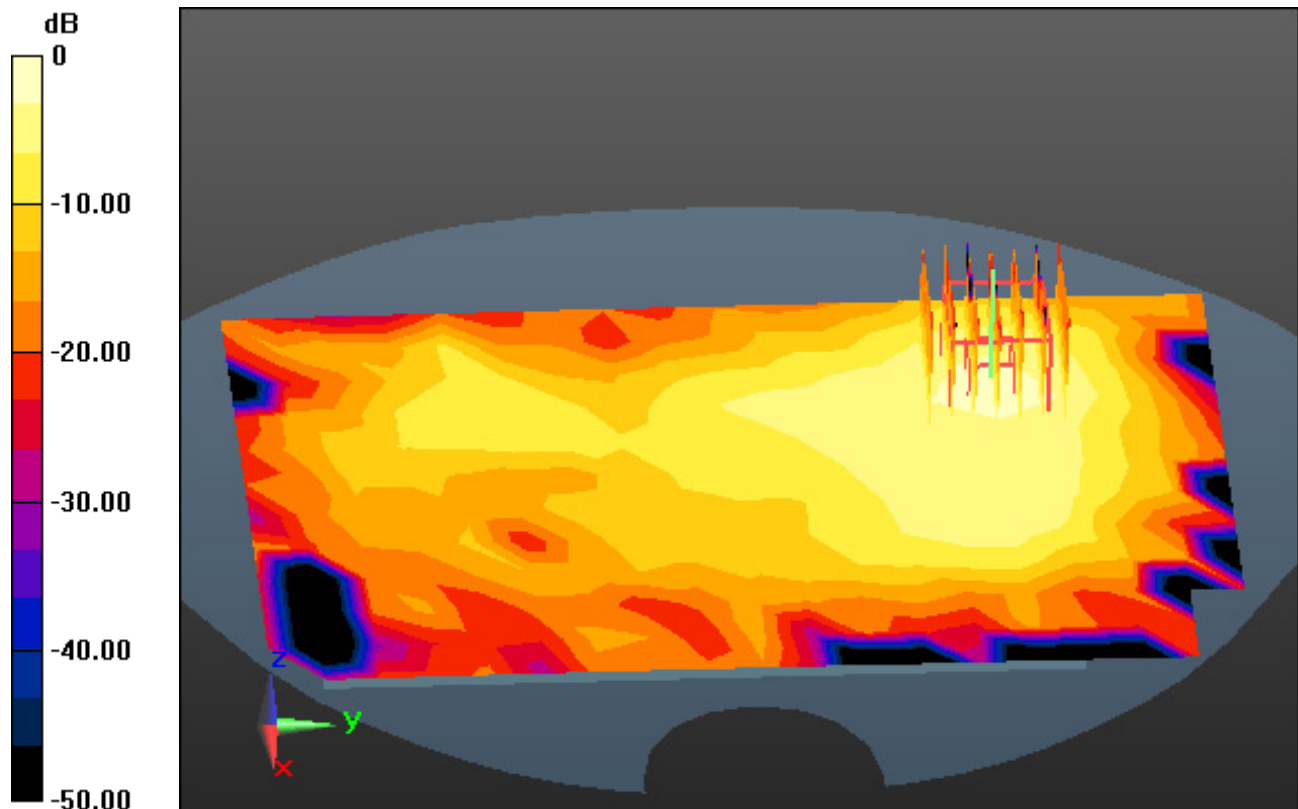
**Area Scan (12x19x1):** Measurement grid: dx=12mm, dy=12mm

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

Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.0360 W/kg

**SAR(1 g) = 0.017 W/kg; SAR(10 g) = 0.00882 W/kg**



0 dB = 0.0287 W/kg

## DT&C Co., Ltd.

**DUT: VF550; Type: Bar**

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

Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.823$  S/m;  $\epsilon_r = 39.053$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3933; ConvF(7.84, 7.84, 7.84) @ 2437 MHz; Calibrated: 9/27/2019 Electronics: DAE3 Sn520

Sensor-Surface: 2mm (Mechanical Surface Detection)

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

Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Test Date: 2020-06-29; Ambient Temp: 20.6; Tissue Temp: 20.5

### **1 cm space from Body, Left, WLAN(802.11b) Ch. 6, Ant Internal**

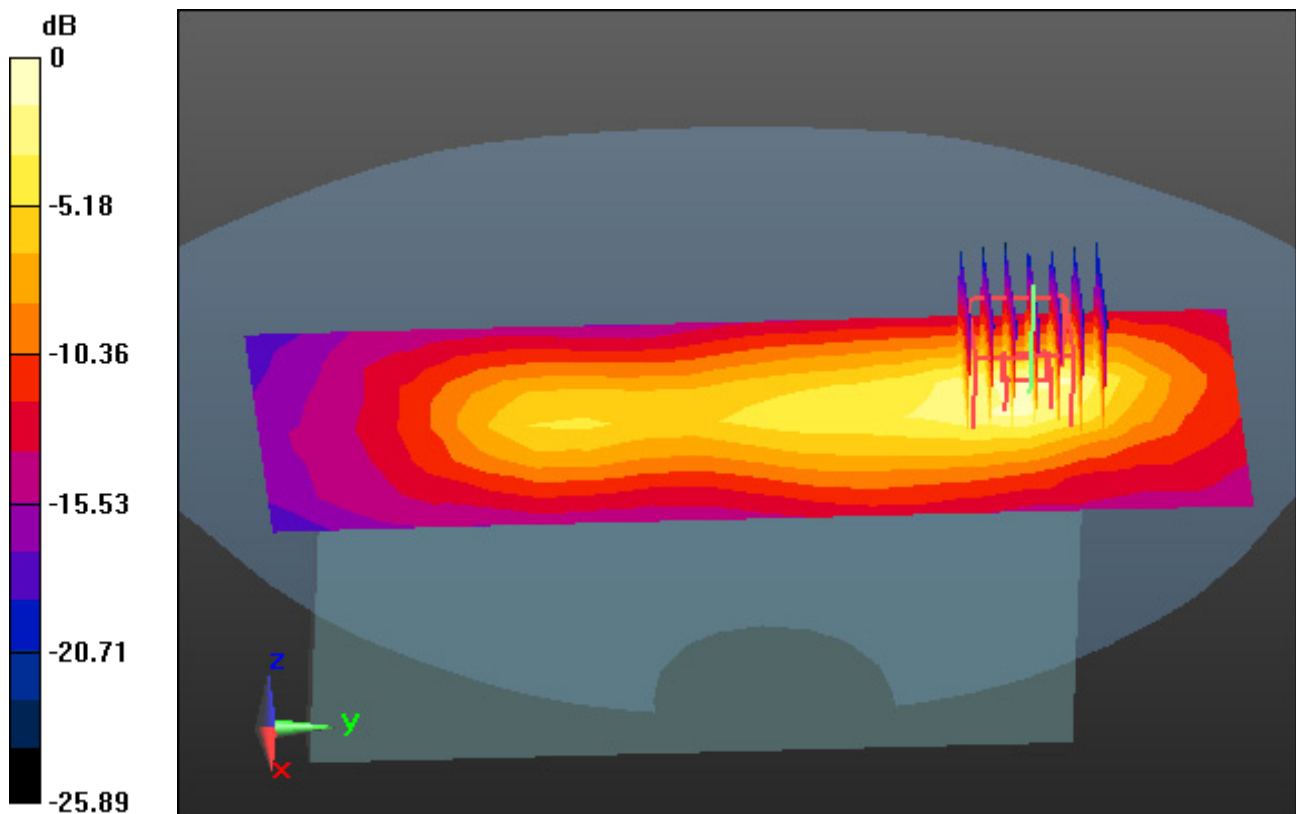
**Area Scan (7x19x1):** Measurement grid: dx=12mm, dy=12mm

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

Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.583 W/kg

**SAR(1 g) = 0.278 W/kg; SAR(10 g) = 0.132 W/kg**



0 dB = 0.427 W/kg

## DT&C Co., Ltd.

**DUT: VF550; Type: Bar**

Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz; Duty Cycle: 1:1.302

Medium parameters used:  $f = 2441$  MHz;  $\sigma = 1.828$  S/m;  $\epsilon_r = 39.037$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3933; ConvF(7.84, 7.84, 7.84) @ 2441 MHz; Calibrated: 9/27/2019 Electronics: DAE3 Sn520

Sensor-Surface: 2mm (Mechanical Surface Detection)

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

Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Test Date: 2020-06-29; Ambient Temp: 20.6; Tissue Temp: 20.5

### **1 cm space from Body, Left, Bluetooth 1 Mbps Ch. 39, Ant Internal**

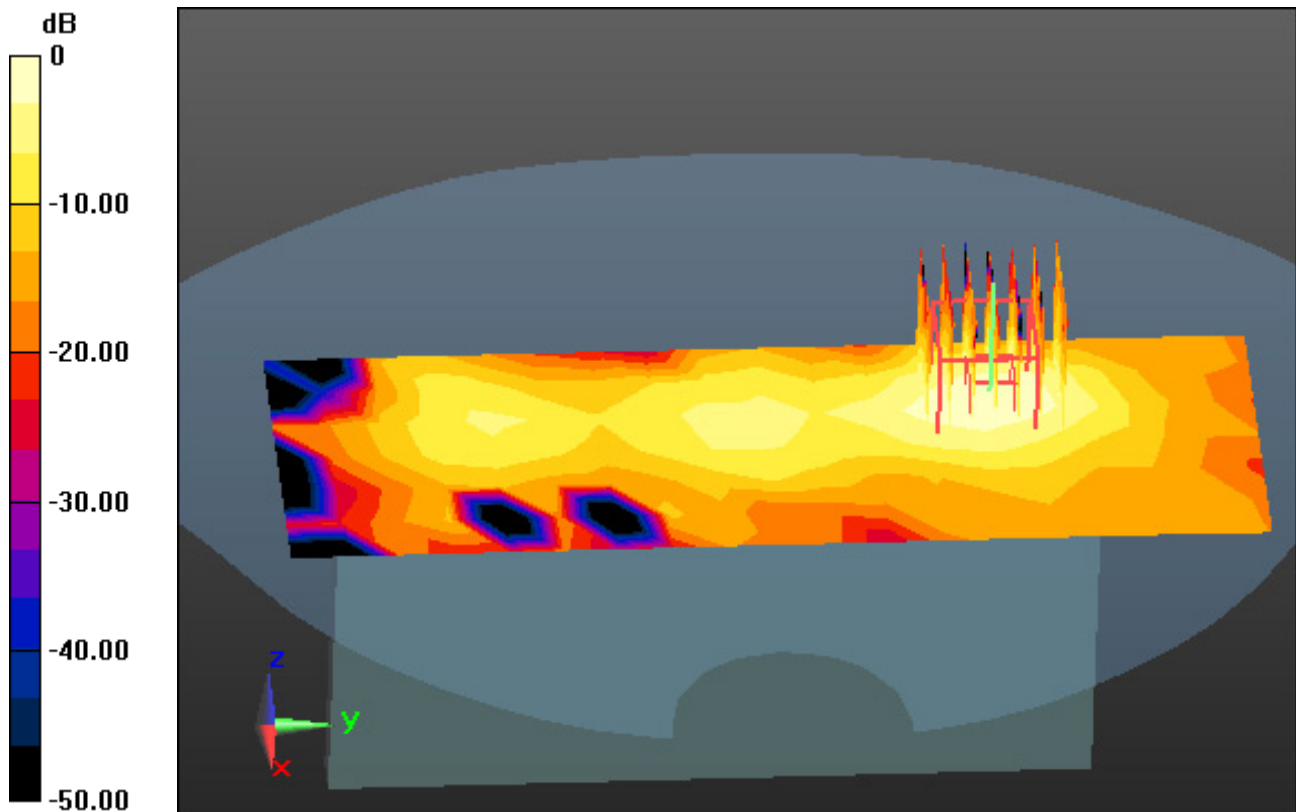
**Area Scan (7x19x1):** Measurement grid: dx=12mm, dy=12mm

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

Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.0490 W/kg

**SAR(1 g) = 0.024 W/kg; SAR(10 g) = 0.011 W/kg**



0 dB = 0.0362 W/kg

## DT&C Co., Ltd.

**DUT: VF550; Type: Bar**

Communication System: UID 0, W-LAN\_5300 (0); Frequency: 5260 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5260$  MHz;  $\sigma = 4.849$  S/m;  $\epsilon_r = 35.597$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3933; ConvF(5.1, 5.1, 5.1) @ 5260 MHz; Calibrated: 9/27/2019 Electronics: DAE3 Sn520

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Phantom: SAM with CRP\_2013\_10\_08\_right; Type: QD000P40CD; Serial: TP:1785

Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Test Date: 2020-06-30; Ambient Temp: 20.7; Tissue Temp: 20.4

**Touch from Body, Rear, WLAN(802.11a) Ch. 52, Ant Internal**

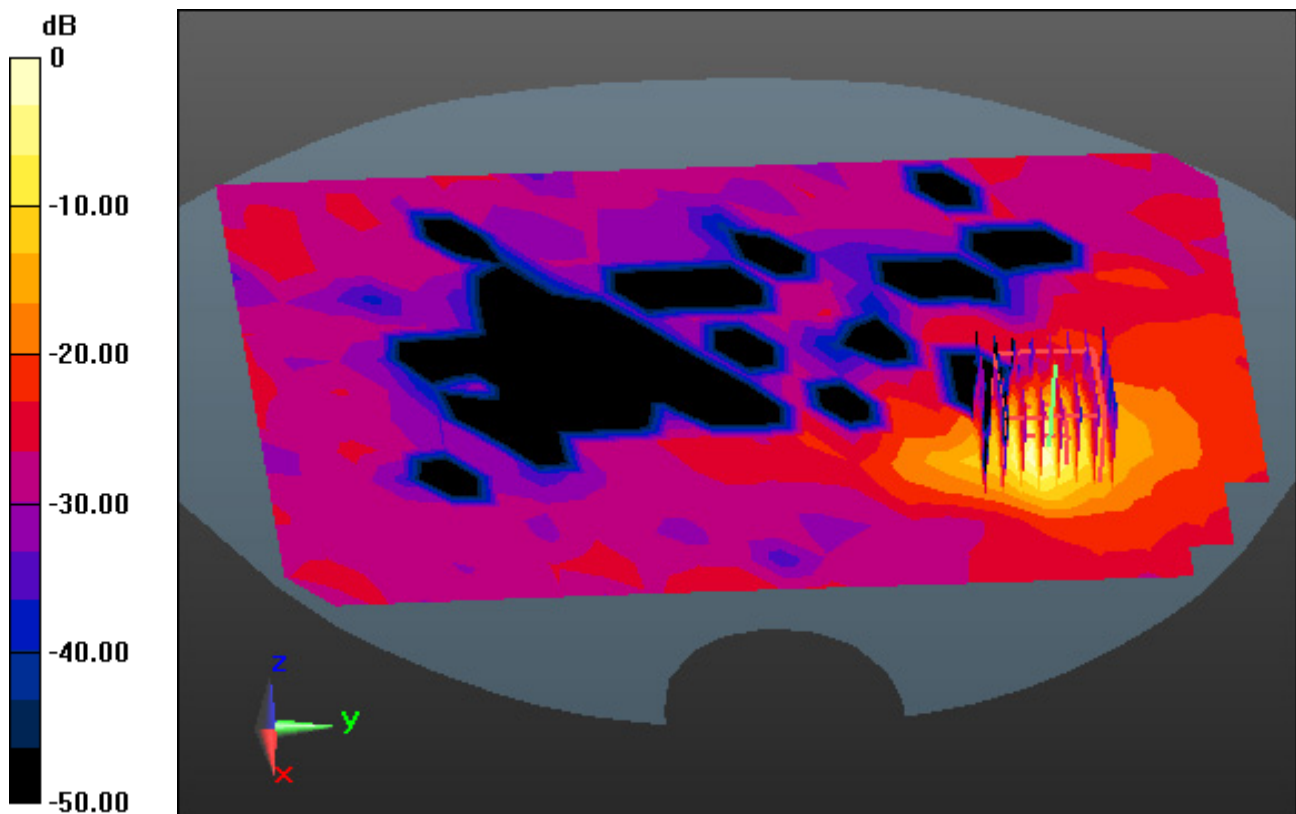
**Area Scan (15x23x1):** Measurement grid: dx=10mm, dy=10mm

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

Power Drift = 0.18 dB

Peak SAR (extrapolated) = 4.54 W/kg

SAR(1 g) = 0.994 W/kg; SAR(10 g) = 0.224 W/kg



0 dB = 2.54 W/kg

## DT&C Co., Ltd.

**DUT: VF550; Type: Bar**

Communication System: UID 0, W-LAN\_5600 (0); Frequency: 5720 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5720$  MHz;  $\sigma = 5.265$  S/m;  $\epsilon_r = 34.279$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3933; ConvF(4.75, 4.75, 4.75) @ 5720 MHz; Calibrated: 9/27/2019 Electronics: DAE3  
Sn520

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Phantom: SAM with CRP\_2013\_10\_08\_right; Type: QD000P40CD; Serial: TP:1785

Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Test Date: 2020-07-01; Ambient Temp: 20.7; Tissue Temp: 20.3

### **Touch from Body, Rear, WLAN(802.11a) Ch. 144, Ant Internal**

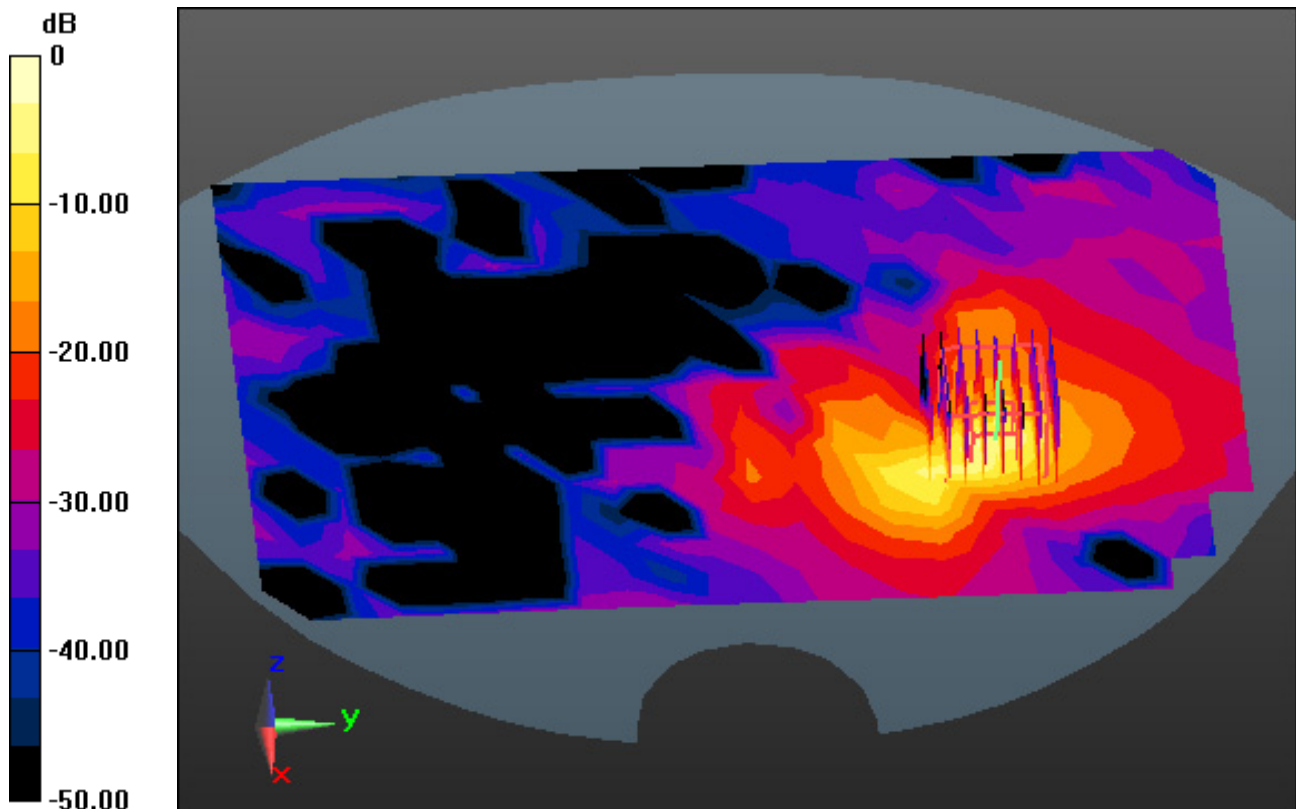
**Area Scan (15x23x1):** Measurement grid: dx=10mm, dy=10mm

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

Power Drift = -0.09 dB

Peak SAR (extrapolated) = 11.2 W/kg

**SAR(1 g) = 1.78 W/kg; SAR(10 g) = 0.342 W/kg**



0 dB = 5.33 W/kg

## DT&C Co., Ltd.

**DUT: VF550; Type: Bar**

Communication System: UID 0, W-LAN\_5800 (0); Frequency: 5745 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5745$  MHz;  $\sigma = 5.386$  S/m;  $\epsilon_r = 35.016$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3933; ConvF(4.75, 4.75, 4.75) @ 5745 MHz; Calibrated: 9/27/2019 Electronics: DAE3  
Sn520

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Phantom: SAM with CRP\_2013\_10\_08\_right; Type: QD000P40CD; Serial: TP:1785

Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Test Date: 2020-07-02; Ambient Temp: 20.9; Tissue Temp: 20.6

### **Touch from Body, Rear, WLAN(802.11a) Ch. 149, 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 = -0.02 dB

Peak SAR (extrapolated) = 10.9 W/kg

**SAR(1 g) = 1.78 W/kg; SAR(10 g) = 0.339 W/kg**

