

SAR Plots

- Verification Plots
- SAR Test Plots

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: $f = 750 \text{ MHz}$; $\sigma = 0.911 \text{ S/m}$; $\epsilon_r = 41.608$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3328; ConvF(6.76, 6.76, 6.76); Calibrated: 3/21/2017; Electronics: DAE4 Sn1394
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: 2018-02-27; Ambient Temp: 20.7; Tissue Temp: 20.5

750 MHz System Head Verification (250 mW)

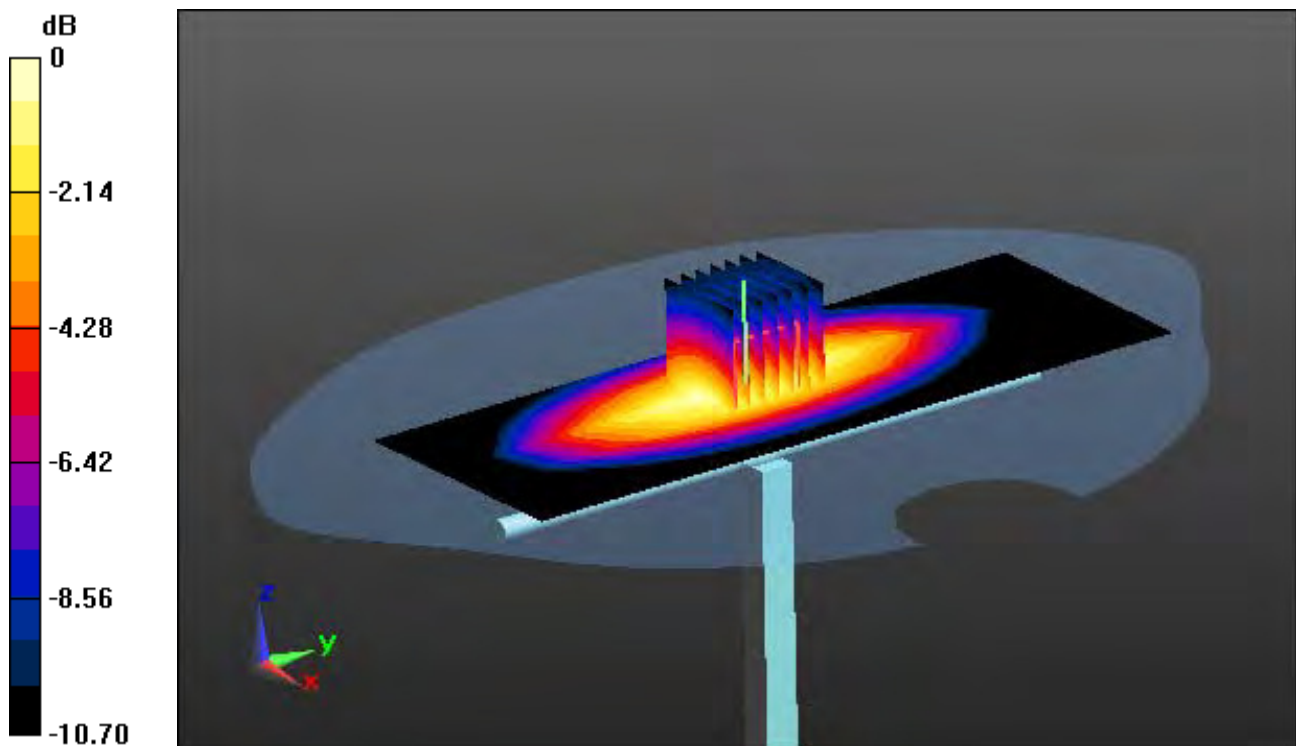
Area Scan (6x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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) = 3.23 W/kg

SAR(1 g) = 2.11 W/kg; SAR(10 g) = 1.36 W/kg



0 dB = 2.49 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: $f = 750 \text{ MHz}$; $\sigma = 0.975 \text{ S/m}$; $\epsilon_r = 56.957$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3328; ConvF(6.46, 6.46, 6.46); Calibrated: 3/21/2017; Electronics: DAE4 Sn1394
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: 2018-02-26; Ambient Temp: 20.2; Tissue Temp: 20.3

750 MHz System Body Verification (250 mW)

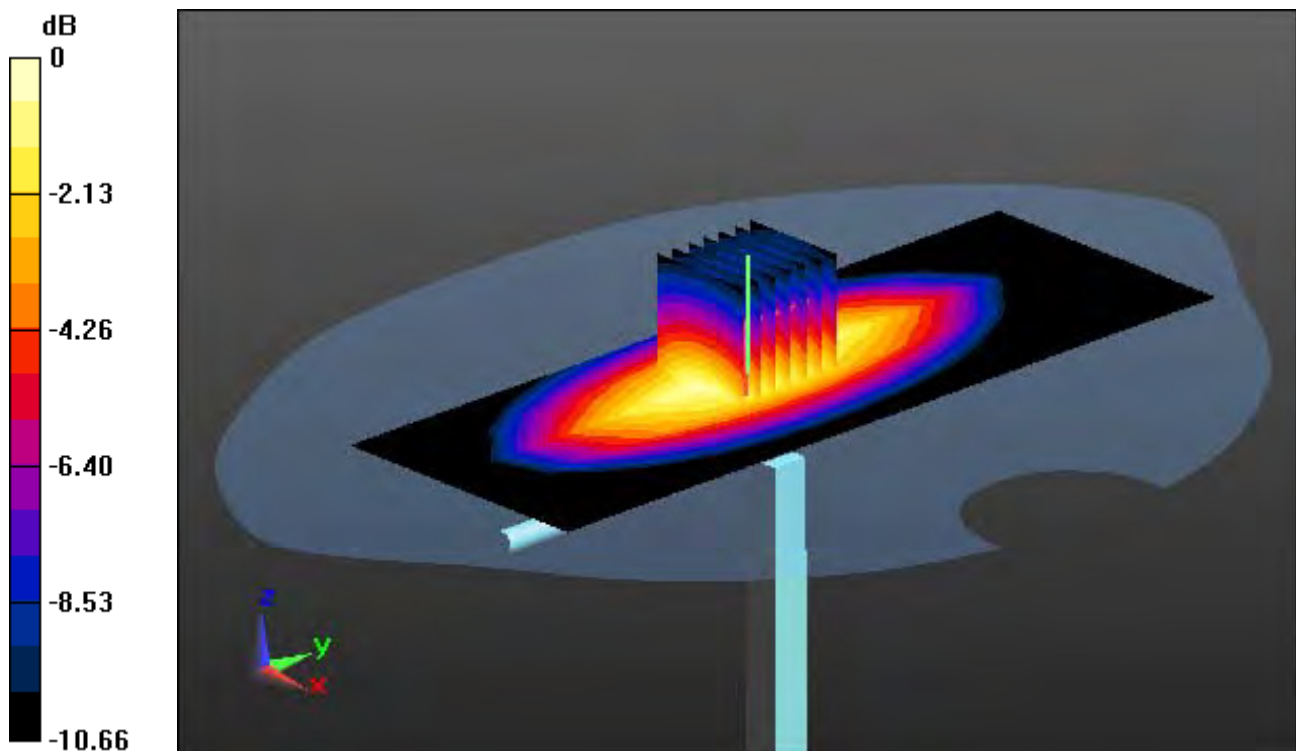
Area Scan (6x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Power Drift = 0.04 dB

Peak SAR (extrapolated) = 3.41 W/kg

SAR(1 g) = 2.25 W/kg; SAR(10 g) = 1.45 W/kg



0 dB = 2.65 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: $f = 835 \text{ MHz}$; $\sigma = 0.923 \text{ S/m}$; $\epsilon_r = 42.378$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3328; ConvF(6.5, 6.5, 6.5); Calibrated: 3/21/2017; Electronics: DAE4 Sn1394
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: 2018-02-21; Ambient Temp: 21.0; Tissue Temp: 20.7

835 MHz System Head Verification (250 mW)

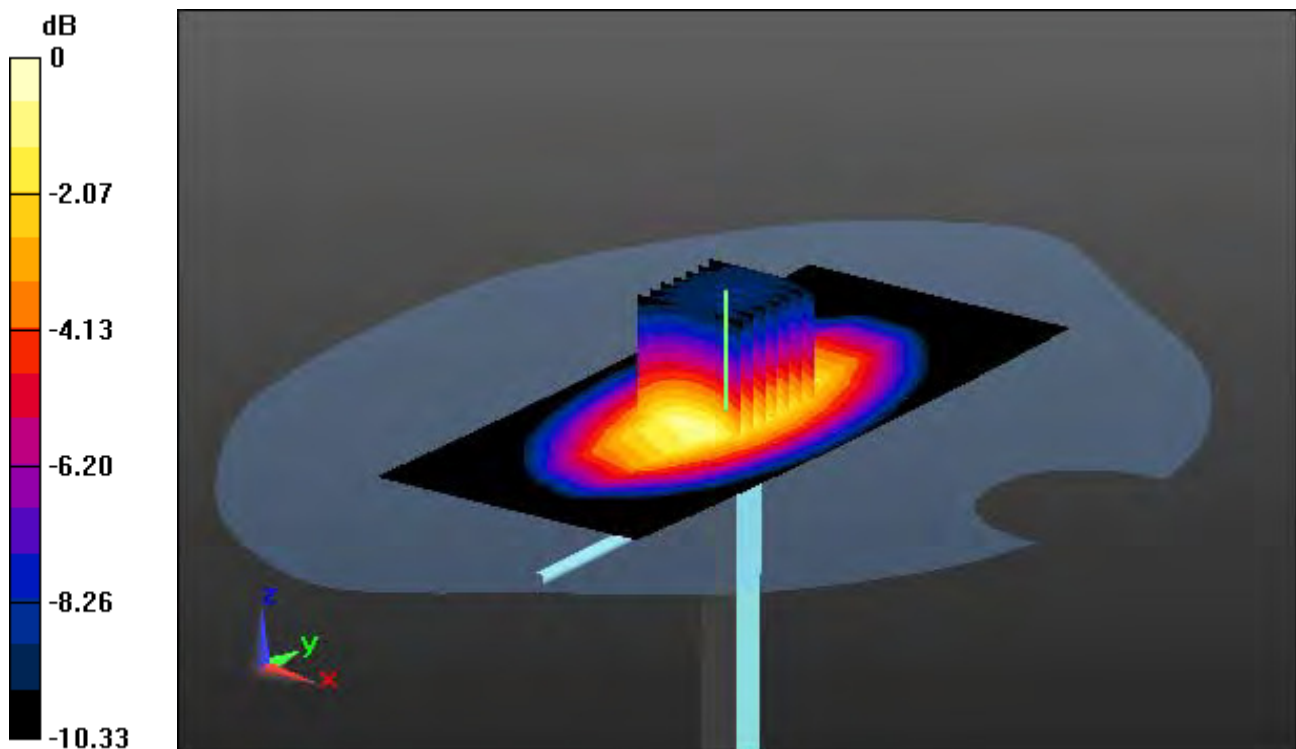
Area Scan (6x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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) = 3.70 W/kg

SAR(1 g) = 2.51 W/kg; SAR(10 g) = 1.65 W/kg



0 dB = 2.94 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: $f = 835 \text{ MHz}$; $\sigma = 0.964 \text{ S/m}$; $\epsilon_r = 53.398$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3328; ConvF(6.35, 6.35, 6.35); Calibrated: 3/21/2017; Electronics: DAE4 Sn1394
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: 2018-02-22; Ambient Temp: 20.9; Tissue Temp: 20.5

835 MHz System Body Verification (250 mW)

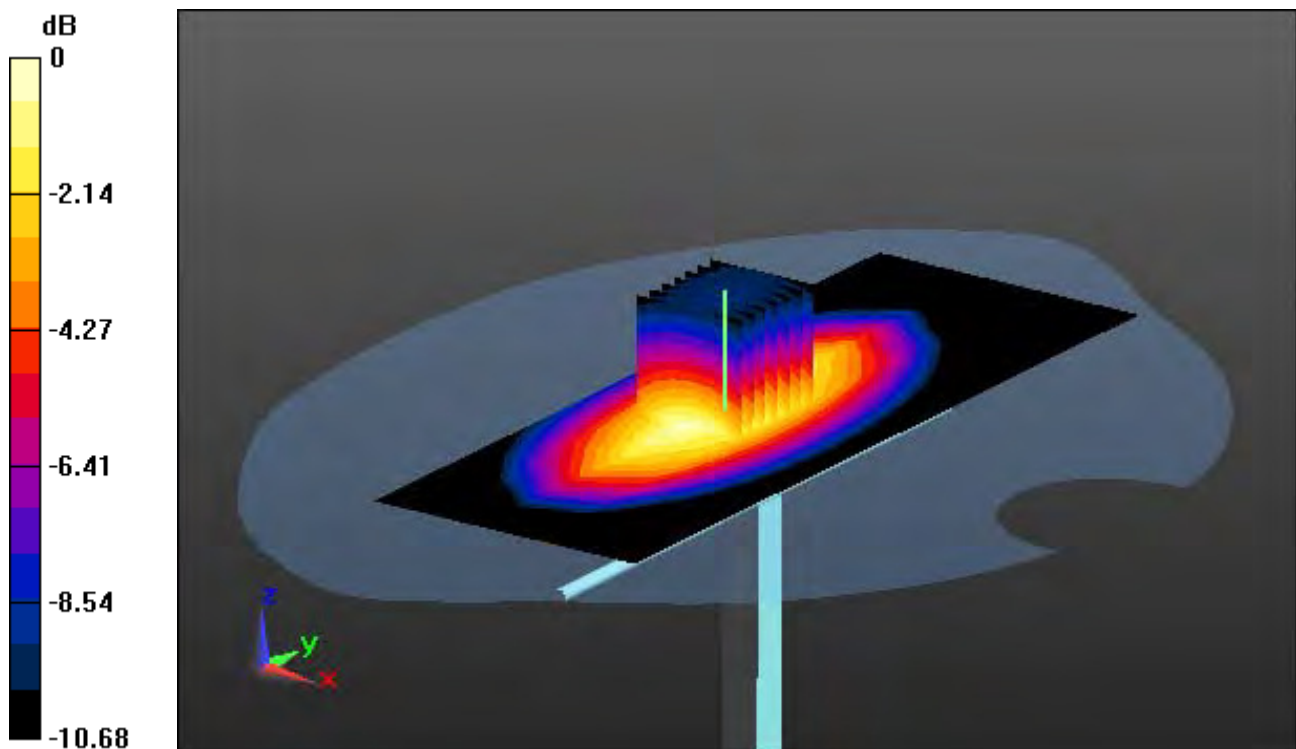
Area Scan (6x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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) = 3.61 W/kg

SAR(1 g) = 2.37 W/kg; SAR(10 g) = 1.53 W/kg



0 dB = 2.79 W/kg

DT&C Co., Ltd.

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d029

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.415$ S/m; $\epsilon_r = 38.827$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(8.46, 8.46, 8.46); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335
Sensor-Surface: 2mm (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: 2018-02-13; Ambient Temp: 20.7; Tissue Temp: 20.6

1900 MHz System Head Verification (100 mW)

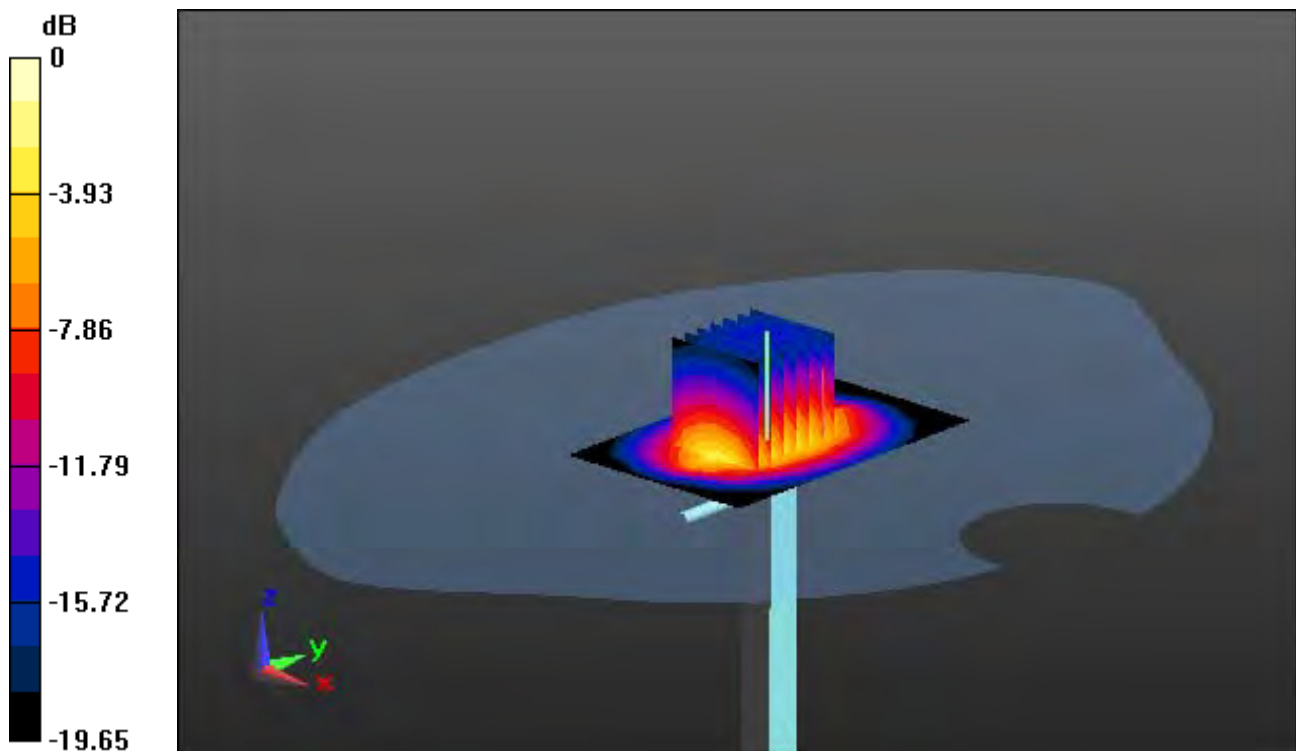
Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm

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

Power Drift = -0.03 dB

Peak SAR (extrapolated) = 7.52 W/kg

SAR(1 g) = 3.9 W/kg; SAR(10 g) = 1.98 W/kg



0 dB = 5.73 W/kg

DT&C Co., Ltd.

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d029

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.567$ S/m; $\epsilon_r = 54.177$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(8.2, 8.2, 8.2); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335
Sensor-Surface: 2mm (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: 2018-02-12; Ambient Temp: 21.1; Tissue Temp: 21.3

1900 MHz System Body Verification (100 mW)

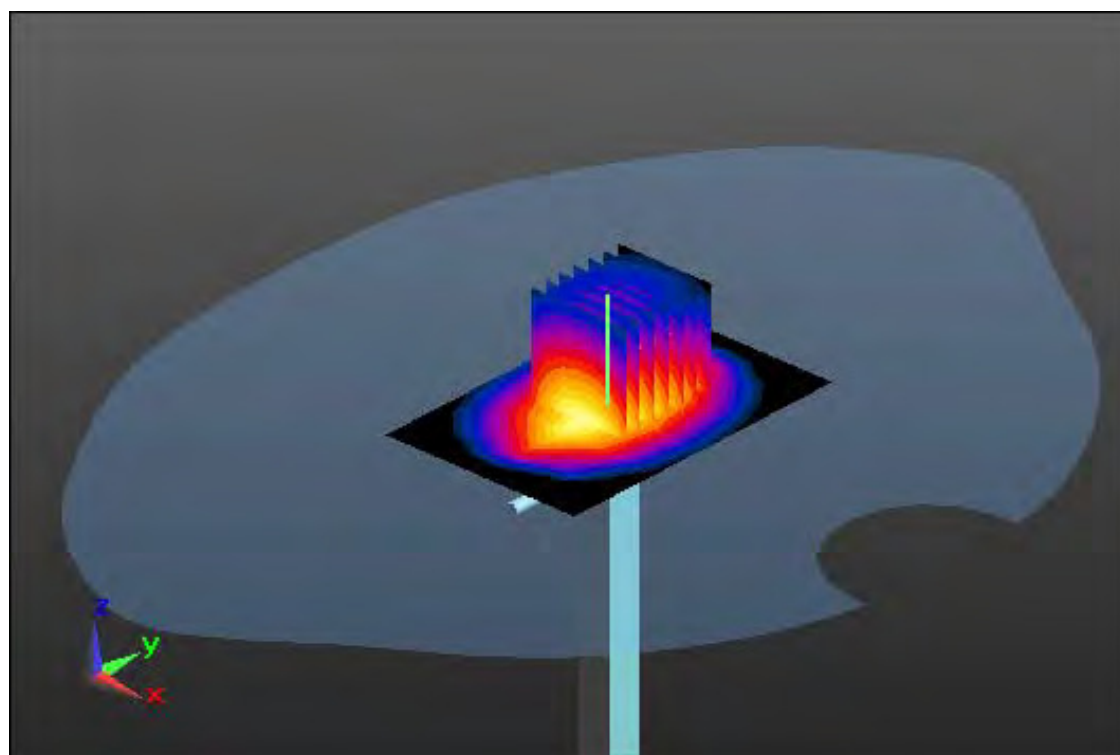
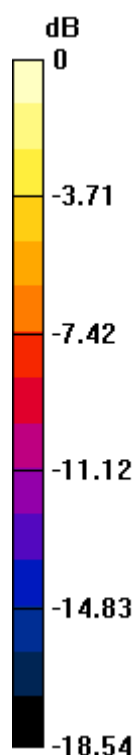
Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm

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

Power Drift = 0.02 dB

Peak SAR (extrapolated) = 7.69 W/kg

SAR(1 g) = 4.17 W/kg; SAR(10 g) = 2.15 W/kg



0 dB = 5.99 W/kg

DT&C Co., Ltd.

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

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2450$ MHz; $\sigma = 1.871$ S/m; $\epsilon_r = 40.163$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(7.7, 7.7, 7.7); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335
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: 2018-02-22; Ambient Temp: 21.6; Tissue Temp: 21.8

2450 MHz System Head Verification

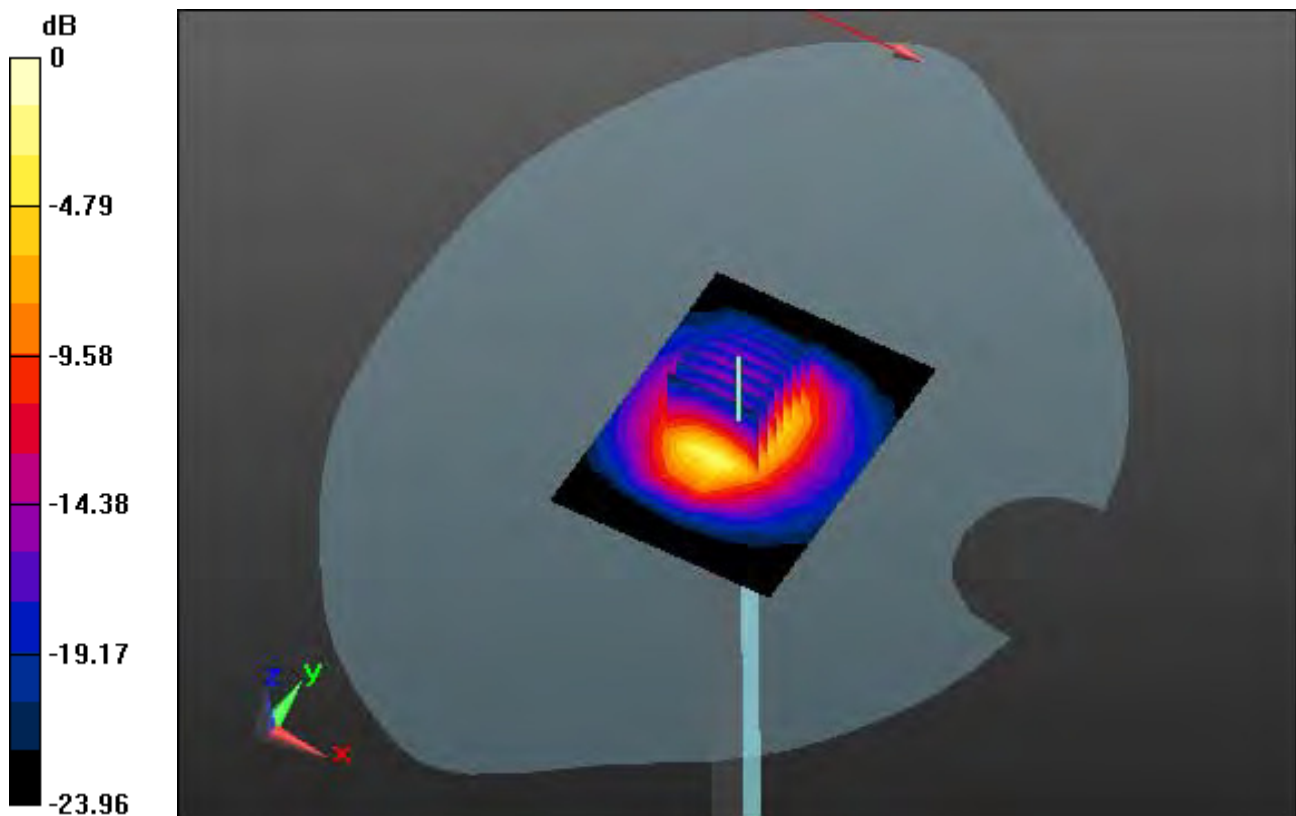
Area Scan (7x9x1): Measurement grid: dx=12mm, dy=12mm

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

Power Drift = -0.09 dB

Peak SAR (extrapolated) = 11.1 W/kg

SAR(1 g) = 5.16 W/kg; SAR(10 g) = 2.33 W/kg



0 dB = 7.94 W/kg

DT&C Co., Ltd.

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

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2450$ MHz; $\sigma = 1.998$ S/m; $\epsilon_r = 52.053$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(7.88, 7.88, 7.88); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335
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: 2018-02-22; Ambient Temp: 21.6; Tissue Temp: 21.5

2450 MHz System Body Verification (100 mW)

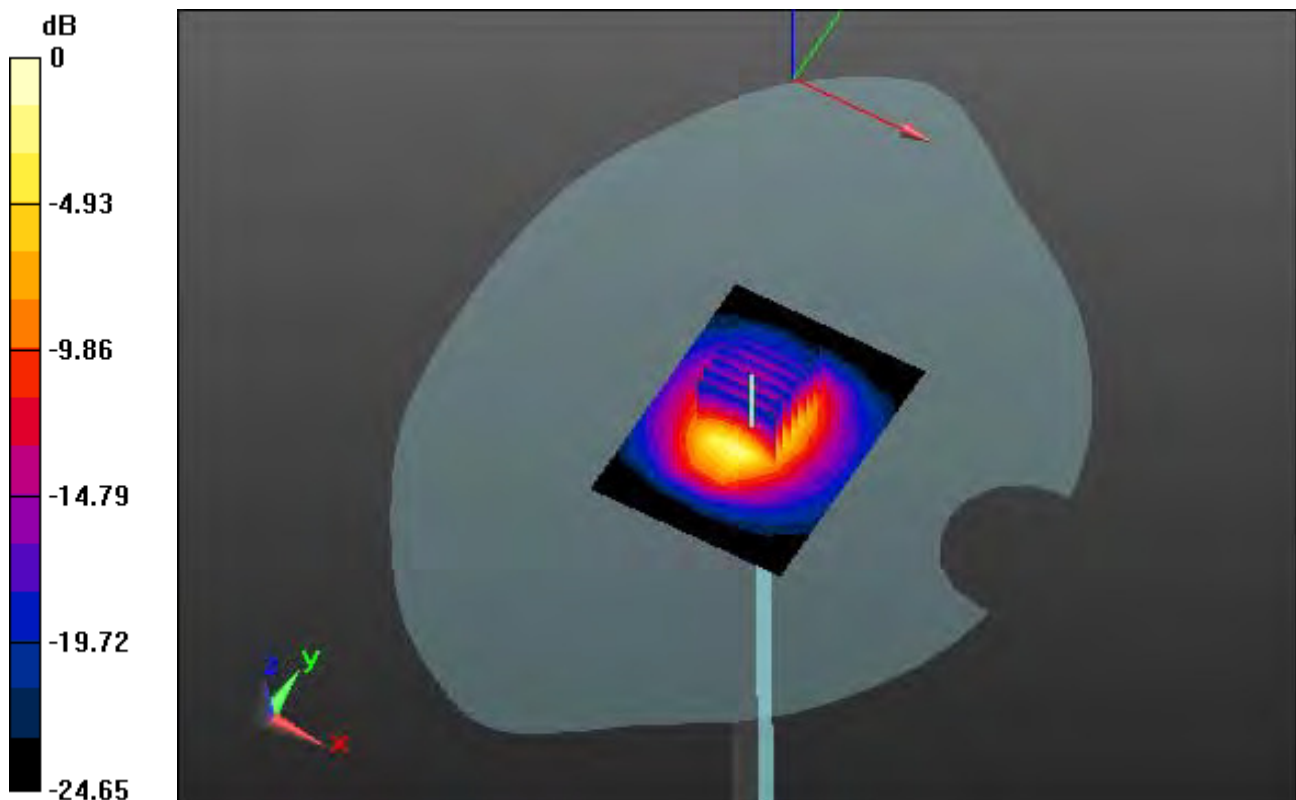
Area Scan (7x9x1): Measurement grid: dx=12mm, dy=12mm

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

Power Drift = -0.09 dB

Peak SAR (extrapolated) = 11.1 W/kg

SAR(1 g) = 5.17 W/kg; SAR(10 g) = 2.34 W/kg



0 dB = 8.00 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; $\sigma = 4.942$ S/m; $\epsilon_r = 35.094$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(5.61, 5.61, 5.61); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335
Sensor-Surface: 1.4mm (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: 2018-02-23; Ambient Temp: 21.6; Tissue Temp: 21.4

5300 MHz System Head Verification (100 mW)

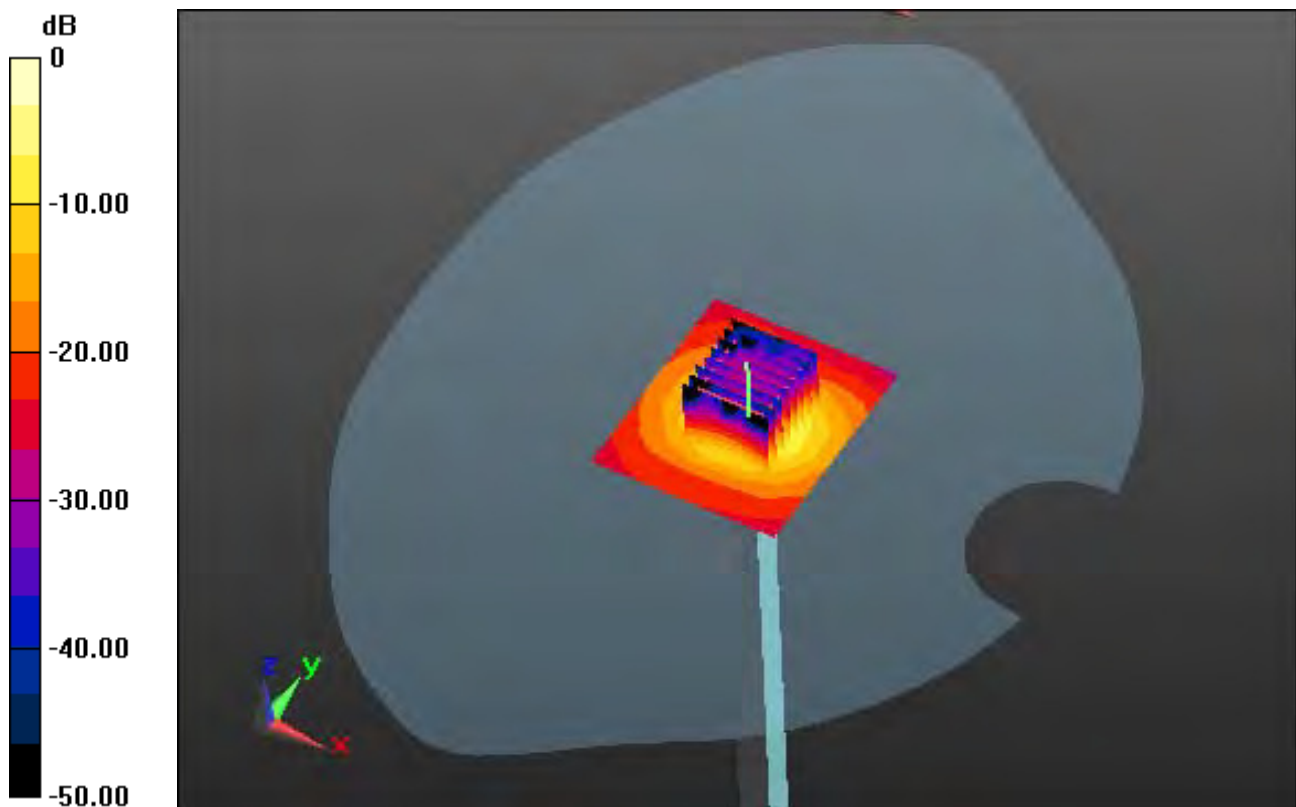
Area Scan (7x8x1): Measurement grid: dx=10mm, dy=10mm

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

Power Drift = -0.17 dB

Peak SAR (extrapolated) = 36.3 W/kg

SAR(1 g) = 8.89 W/kg; SAR(10 g) = 2.55 W/kg



0 dB = 20.7 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: $f = 5300 \text{ MHz}$; $\sigma = 5.443 \text{ S/m}$; $\epsilon_r = 49.38$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(5.1, 5.1, 5.1); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335
Sensor-Surface: 1.4mm (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: 2018-02-23; Ambient Temp: 21.6; Tissue Temp: 21.7

5300 MHz System Body Verification (100 mW)

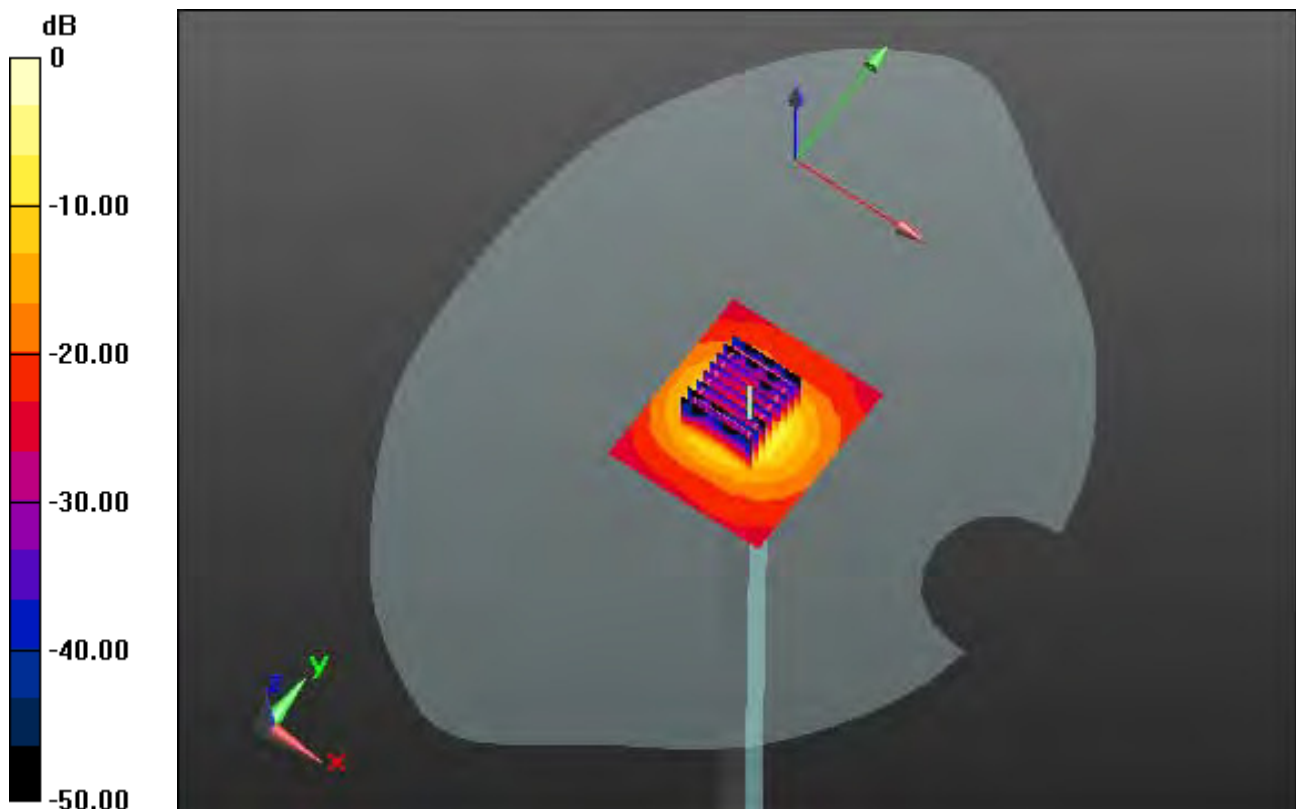
Area Scan (7x8x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

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) = 33.7 W/kg

SAR(1 g) = 7.78 W/kg; SAR(10 g) = 2.17 W/kg



0 dB = 19.0 W/kg

DT&C Co., Ltd.

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

Communication System: UID 0, CW (0); Frequency: 5500 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5500$ MHz; $\sigma = 5.152$ S/m; $\epsilon_r = 34.626$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(5.1, 5.1, 5.1); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335
Sensor-Surface: 1.4mm (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: 2018-02-26; Ambient Temp: 21.8; Tissue Temp: 21.4

5500 MHz System Head Verification (100 mW)

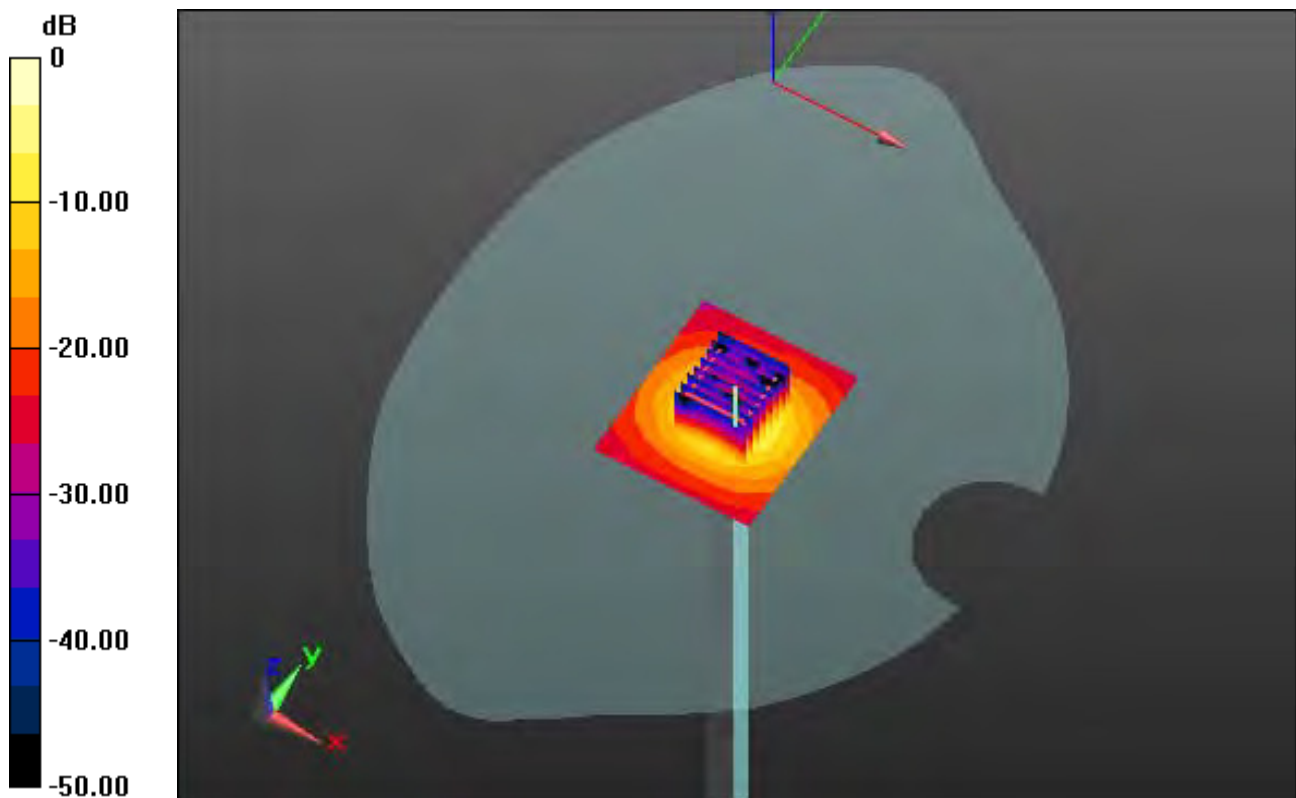
Area Scan (7x8x1): Measurement grid: dx=10mm, dy=10mm

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) = 34.2 W/kg

SAR(1 g) = 8.29 W/kg; SAR(10 g) = 2.36 W/kg



0 dB = 19.4 W/kg

DT&C Co., Ltd.

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

Communication System: UID 0, CW (0); Frequency: 5500 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5500$ MHz; $\sigma = 5.805$ S/m; $\epsilon_r = 48.478$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(4.5, 4.5, 4.5); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335
Sensor-Surface: 1.4mm (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: 2018-02-26; Ambient Temp: 21.8; Tissue Temp: 21.6

5500 MHz System Body Verification (100 mW)

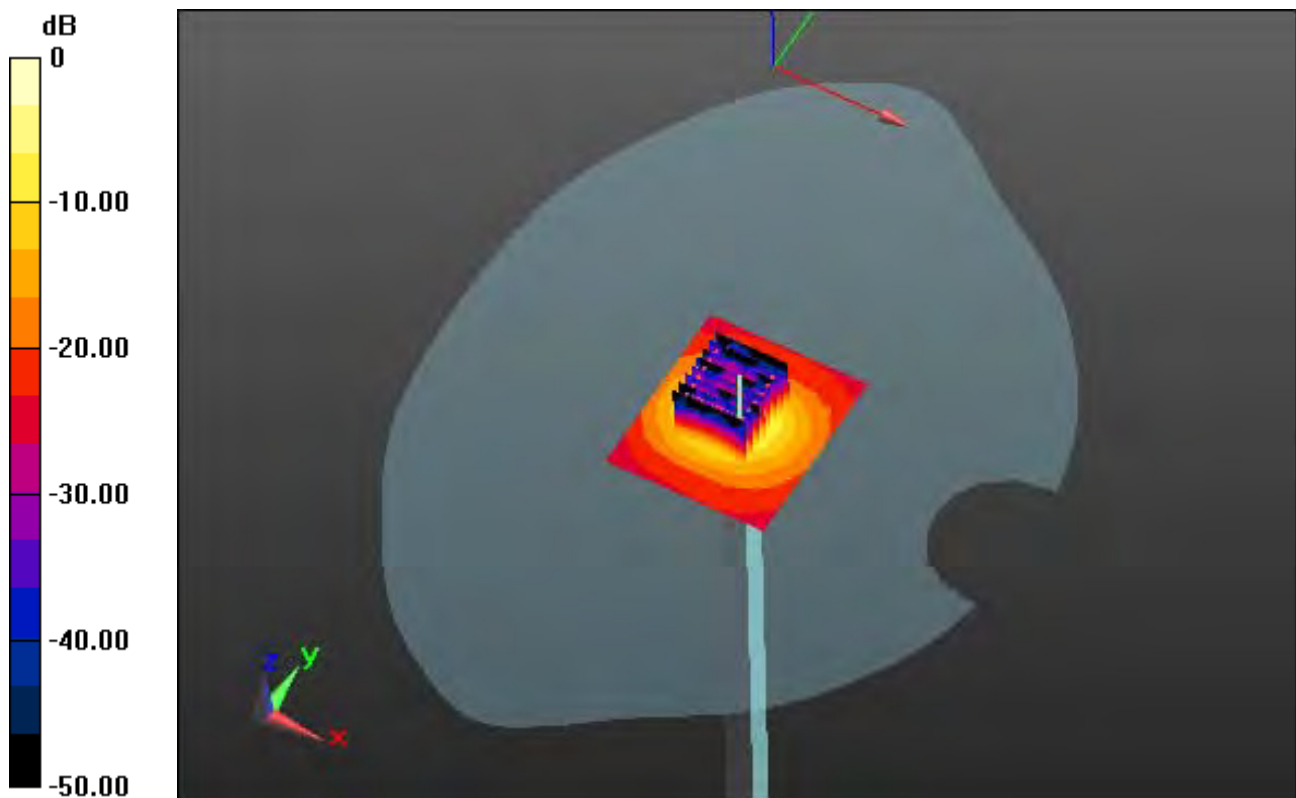
Area Scan (7x8x1): Measurement grid: dx=10mm, dy=10mm

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) = 35.9 W/kg

SAR(1 g) = 8.38 W/kg; SAR(10 g) = 2.34 W/kg



0 dB = 20.2 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: $f = 5800 \text{ MHz}$; $\sigma = 5.46 \text{ S/m}$; $\epsilon_r = 34.267$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(5, 5, 5); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335
Sensor-Surface: 1.4mm (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: 2018-02-27; Ambient Temp: 22.1; Tissue Temp: 22.5

5800 MHz System Head Verification (100 mW)

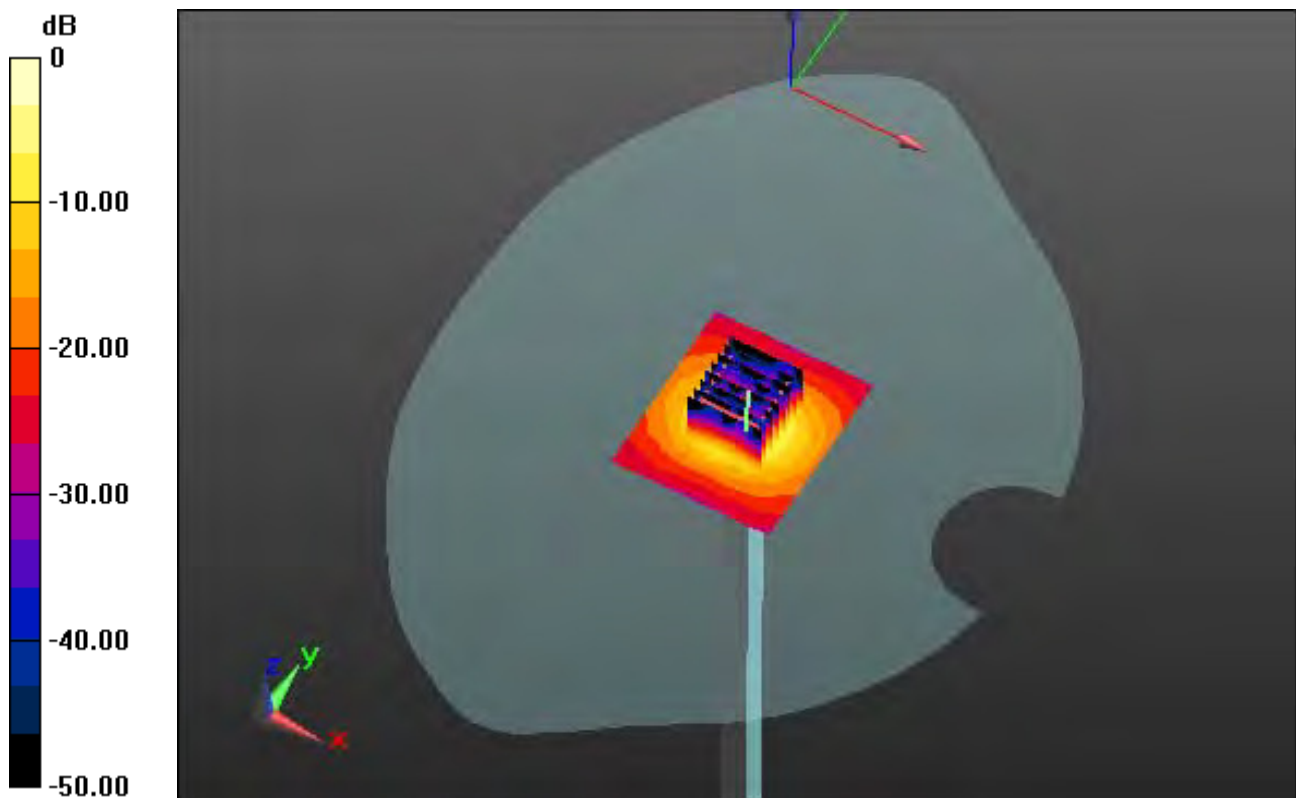
Area Scan (7x8x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

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 = -0.04 dB

Peak SAR (extrapolated) = 35.6 W/kg

SAR(1 g) = 8.24 W/kg; SAR(10 g) = 2.34 W/kg



0 dB = 19.8 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: $f = 5800 \text{ MHz}$; $\sigma = 6.209 \text{ S/m}$; $\epsilon_r = 48.078$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(4.61, 4.61, 4.61); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335
Sensor-Surface: 1.4mm (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: 2018-02-27; Ambient Temp: 22.1; Tissue Temp: 22.2

5800 MHz System Body Verification (100 mW)

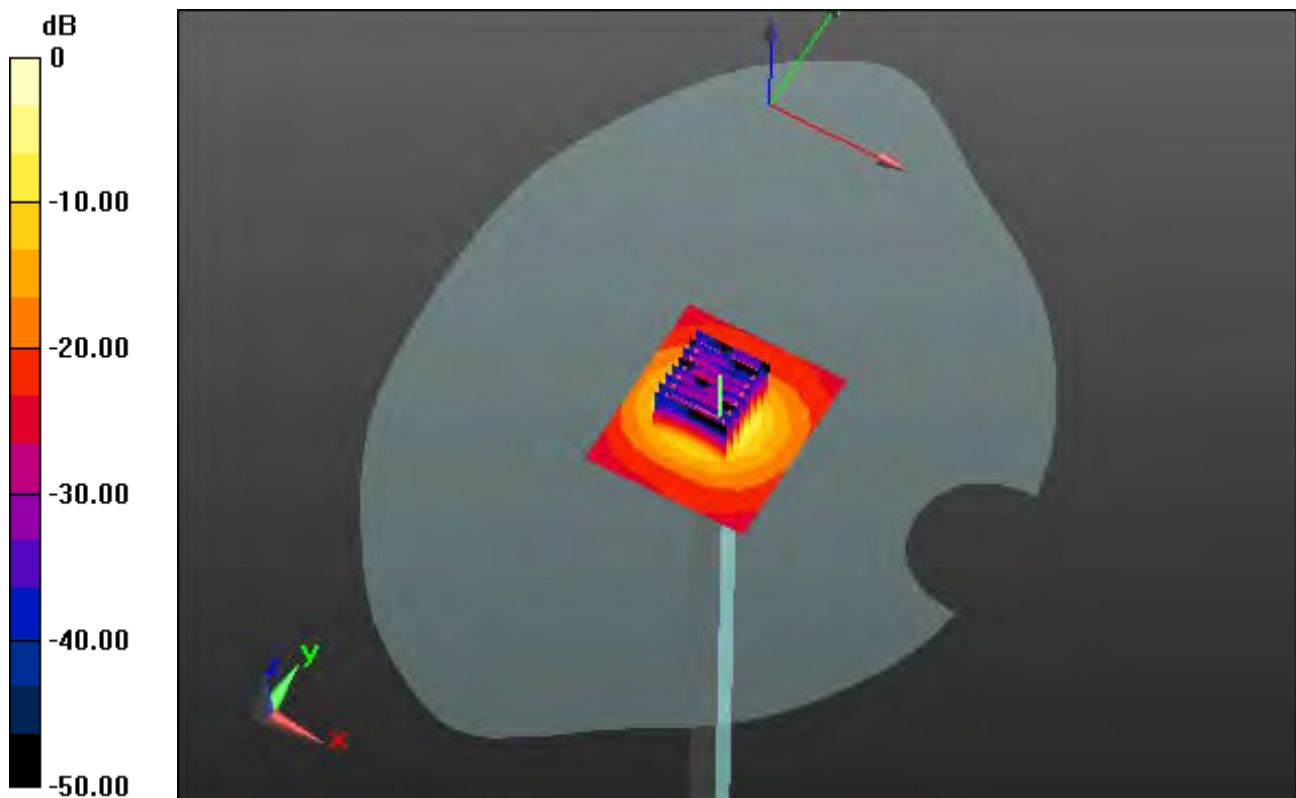
Area Scan (7x8x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

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) = 34.3 W/kg

SAR(1 g) = 7.92 W/kg; SAR(10 g) = 2.2 W/kg



0 dB = 19.3 W/kg

DT&C Co., Ltd.

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

Communication System: UID 0, CW (0); Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5200$ MHz; $\sigma = 5.387$ S/m; $\epsilon_r = 50.062$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(5.41, 5.41, 5.41); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335

Sensor-Surface: 1.4mm (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: 2018-03-21; Ambient Temp: 21.0; Tissue Temp: 22.0

5200 MHz System Body Verification (100 mW)

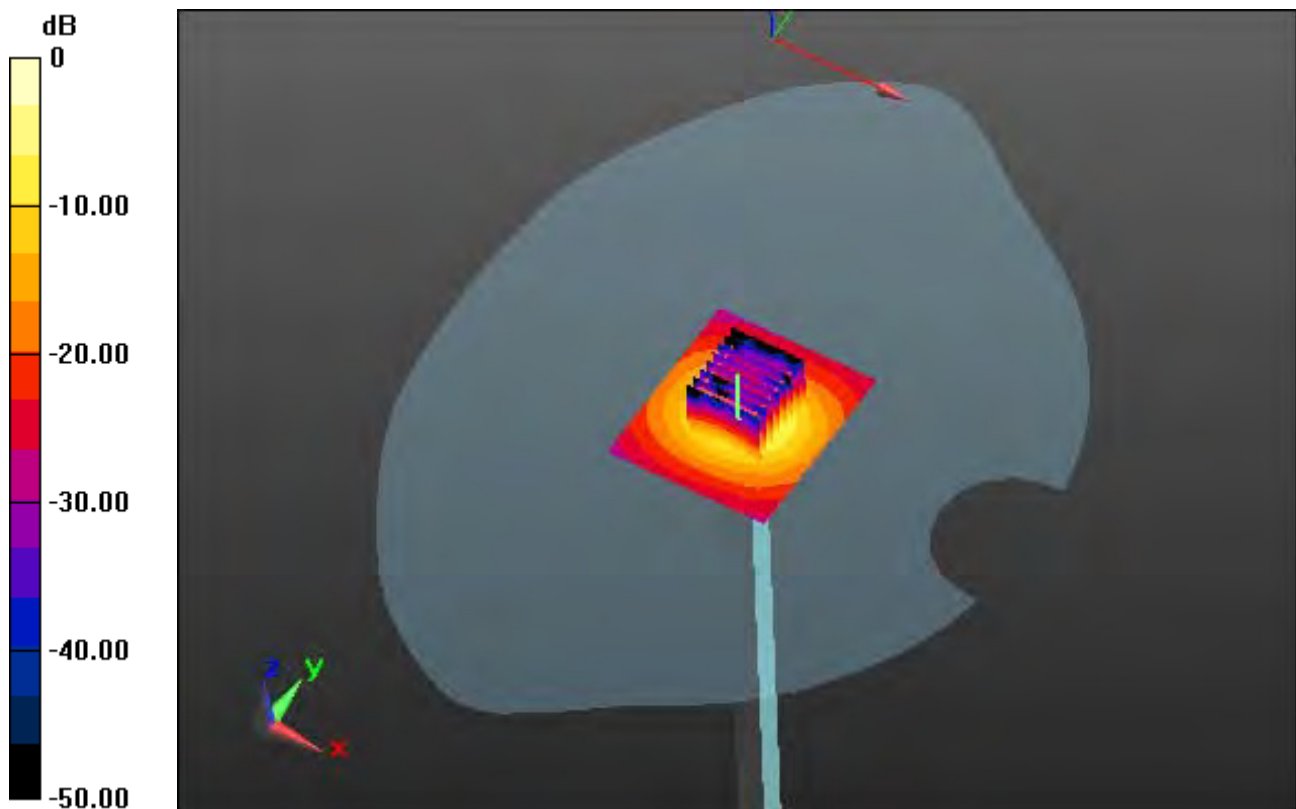
Area Scan (7x8x1): Measurement grid: dx=10mm, dy=10mm

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

Power Drift = -0.17 dB

Peak SAR (extrapolated) = 28.2 W/kg

SAR(1 g) = 7.29 W/kg; SAR(10 g) = 2.11 W/kg



0 dB = 16.7 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; $\sigma = 6.219$ S/m; $\epsilon_r = 49.737$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(4.61, 4.61, 4.61); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335

Sensor-Surface: 1.4mm (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: 2018-03-21; Ambient Temp: 21.0; Tissue Temp: 22.0

5800 MHz System Body Verification (100 mW)

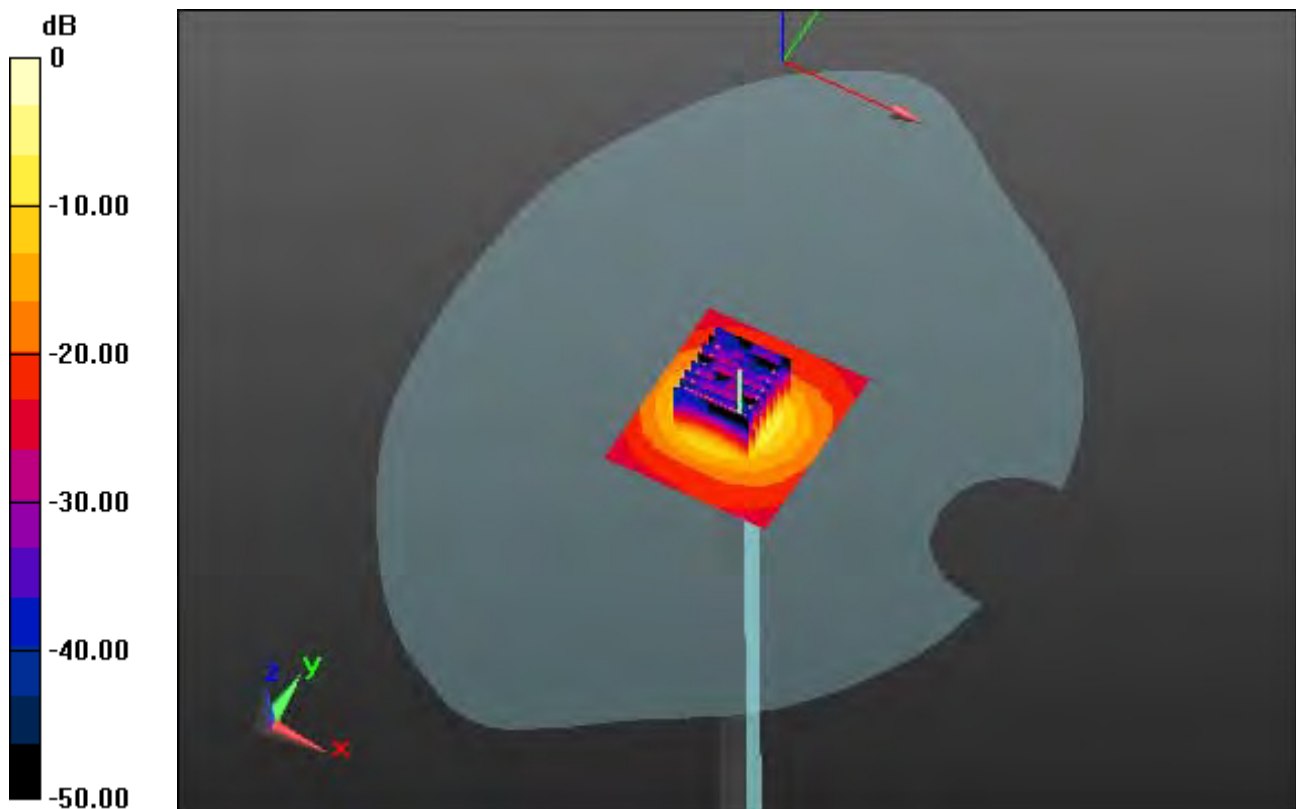
Area Scan (7x8x1): Measurement grid: dx=10mm, dy=10mm

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

Power Drift = 0.05 dB

Peak SAR (extrapolated) = 34.3 W/kg

SAR(1 g) = 7.94 W/kg; SAR(10 g) = 2.21 W/kg



0 dB = 19.3 W/kg

DT&C Co., Ltd.

DUT: DS1803; Type: Bar

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

Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.925 \text{ S/m}$; $\epsilon_r = 42.367$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY5 Configuration:

Probe: ES3DV3 - SN3328; ConvF(6.5, 6.5, 6.5); Calibrated: 3/21/2017; Electronics: DAE4 Sn1394

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: 2018-02-21; Ambient Temp: 21.0; Tissue Temp: 20.7

Left Touch, GSM850 Ch. 190, Ant Internal, Standard Battery

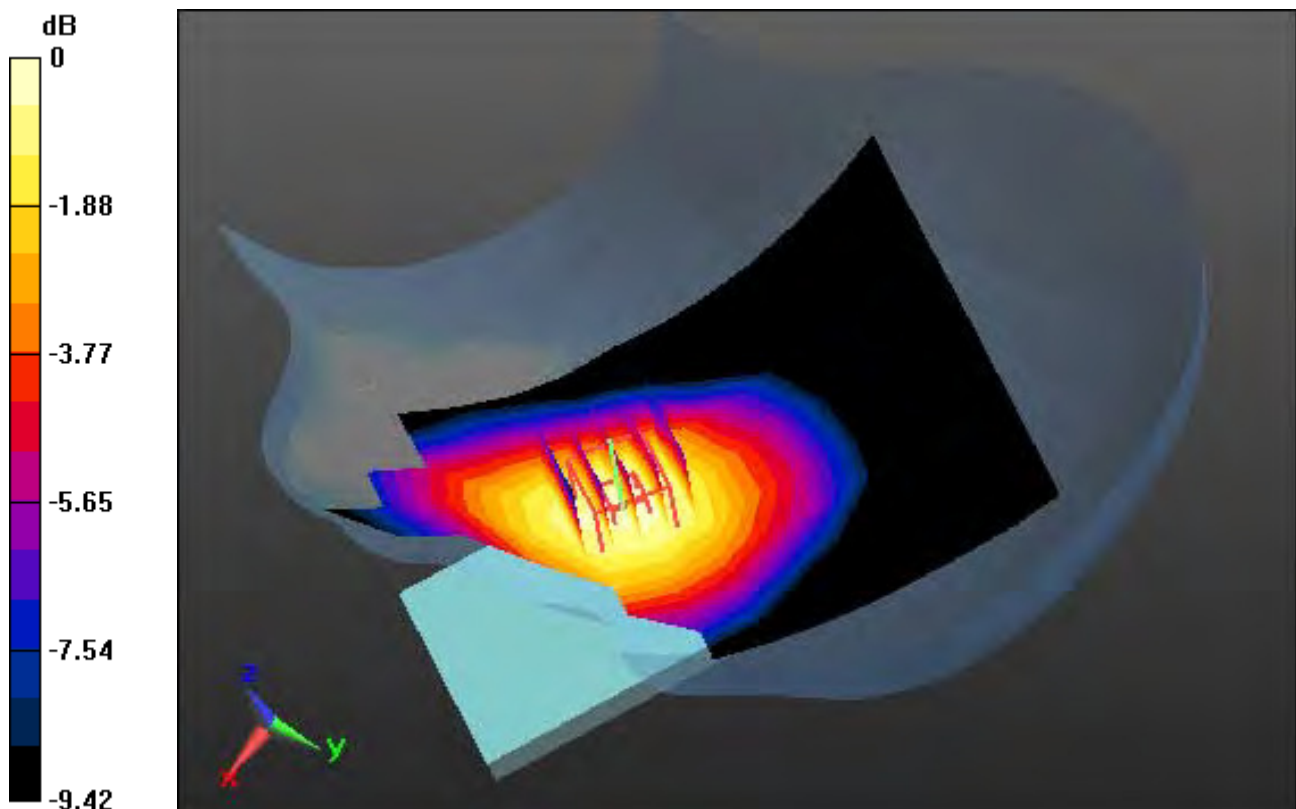
Area Scan (9x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.186 W/kg

SAR(1 g) = 0.148 W/kg; SAR(10 g) = 0.114 W/kg



0 dB = 0.161 W/kg

DT&C Co., Ltd.

DUT: DS1803; Type: Bar

Communication System: UID 0, GSM 850_11 (0); Frequency: 836.6 MHz; Duty Cycle: 1:2.77

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.925$ S/m; $\epsilon_r = 42.367$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

Probe: ES3DV3 - SN3328; ConvF(6.5, 6.5, 6.5); Calibrated: 3/21/2017; Electronics: DAE4 Sn1394

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: 2018-02-21; Ambient Temp: 21.0; Tissue Temp: 20.7

Left Touch, GSM850 GPRS 3 Tx Ch. 190, Ant Internal, Standard Battery

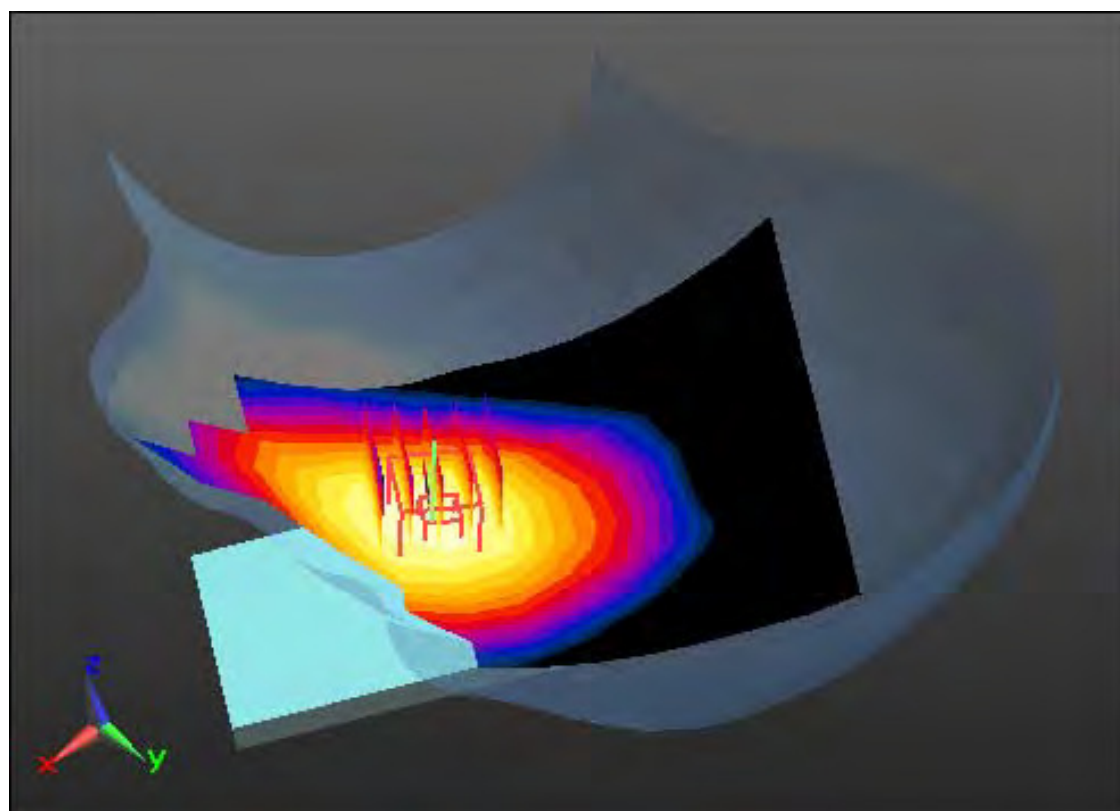
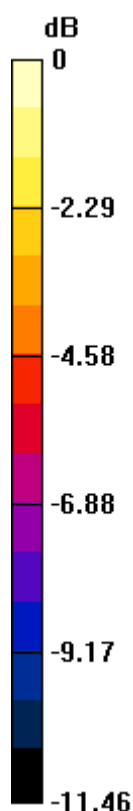
Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

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

Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.342 W/kg

SAR(1 g) = 0.180 W/kg; SAR(10 g) = 0.137 W/kg



0 dB = 0.195 W/kg

DT&C Co., Ltd.

DUT: DS1803; Type: Bar

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.396$ S/m; $\epsilon_r = 38.877$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(8.46, 8.46, 8.46); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335

Sensor-Surface: 2mm (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: 2018-02-13; Ambient Temp: 20.7; Tissue Temp: 20.6

Right Touch, PCS1900 Ch. 661, Ant Internal, Standard Battery

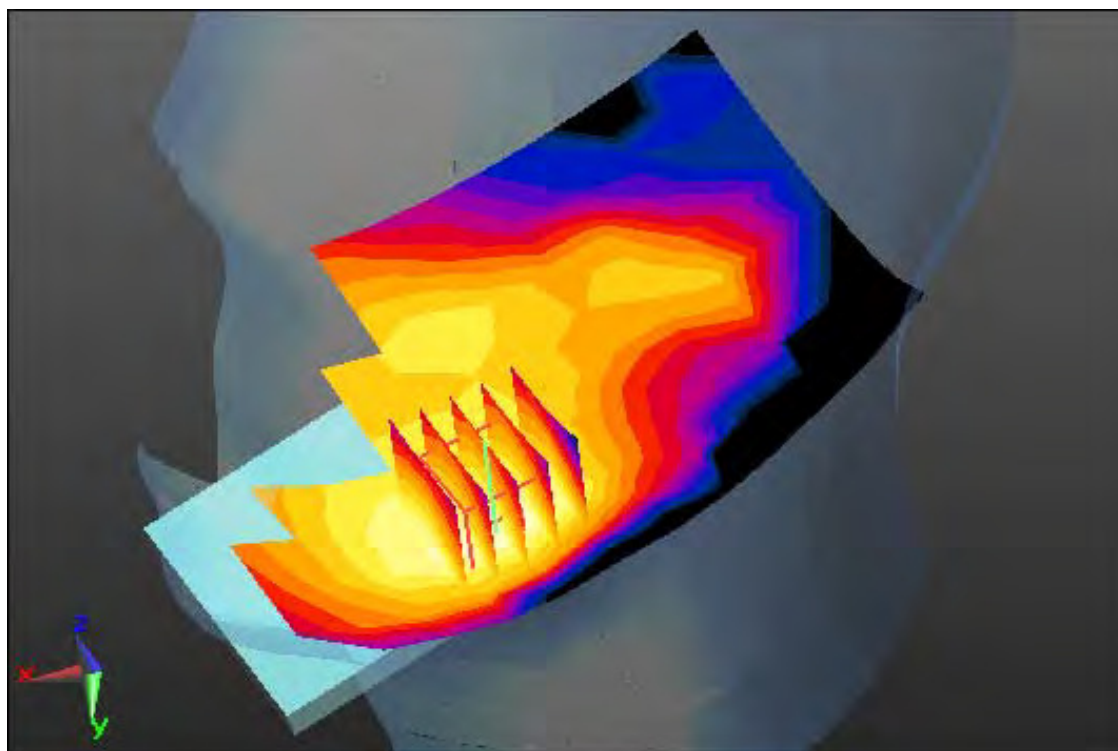
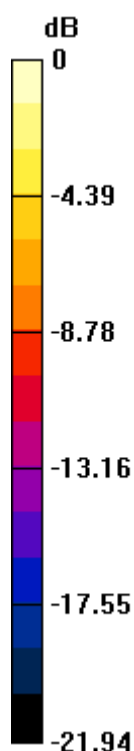
Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

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

Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.0780 W/kg

SAR(1 g) = 0.054 W/kg; SAR(10 g) = 0.034 W/kg



0 dB = 0.0670 W/kg

DT&C Co., Ltd.

DUT: DS1803; Type: Bar

Communication System: UID 0, PCS1900_Class 11 (0); Frequency: 1880 MHz; Duty Cycle: 1:2.77

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.396$ S/m; $\epsilon_r = 38.877$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(8.46, 8.46, 8.46); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335

Sensor-Surface: 2mm (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: 2018-02-13; Ambient Temp: 20.7; Tissue Temp: 20.6

Right Touch, PCS1900 GPRS 3 Tx Ch. 661, Ant Internal, Standard Battery

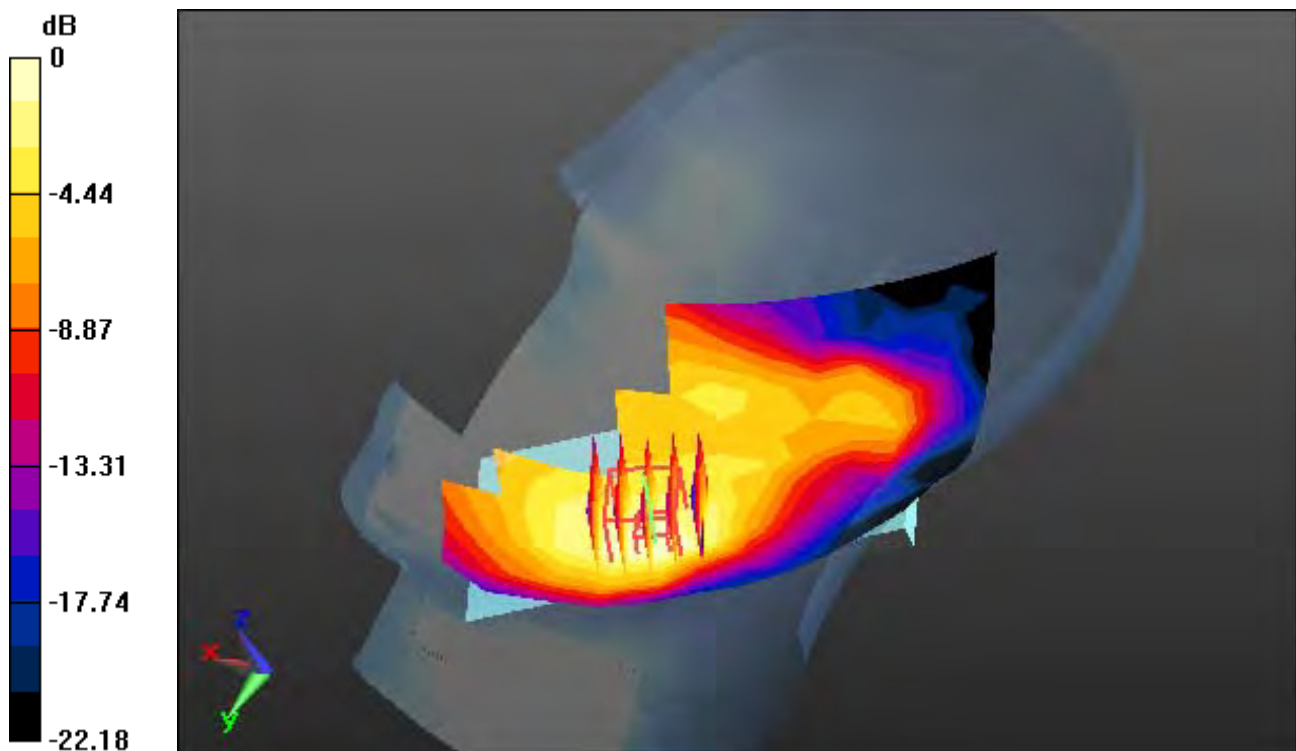
Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

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

Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.102 W/kg

SAR(1 g) = 0.067 W/kg; SAR(10 g) = 0.041 W/kg



0 dB = 0.0869 W/kg

DT&C Co., Ltd.

DUT: DS1803; Type: Bar

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

Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.925 \text{ S/m}$; $\epsilon_r = 42.367$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY5 Configuration:

Probe: ES3DV3 - SN3328; ConvF(6.5, 6.5, 6.5); Calibrated: 3/21/2017; Electronics: DAE4 Sn1394

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: 2018-02-21; Ambient Temp: 21.0; Tissue Temp: 20.7

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

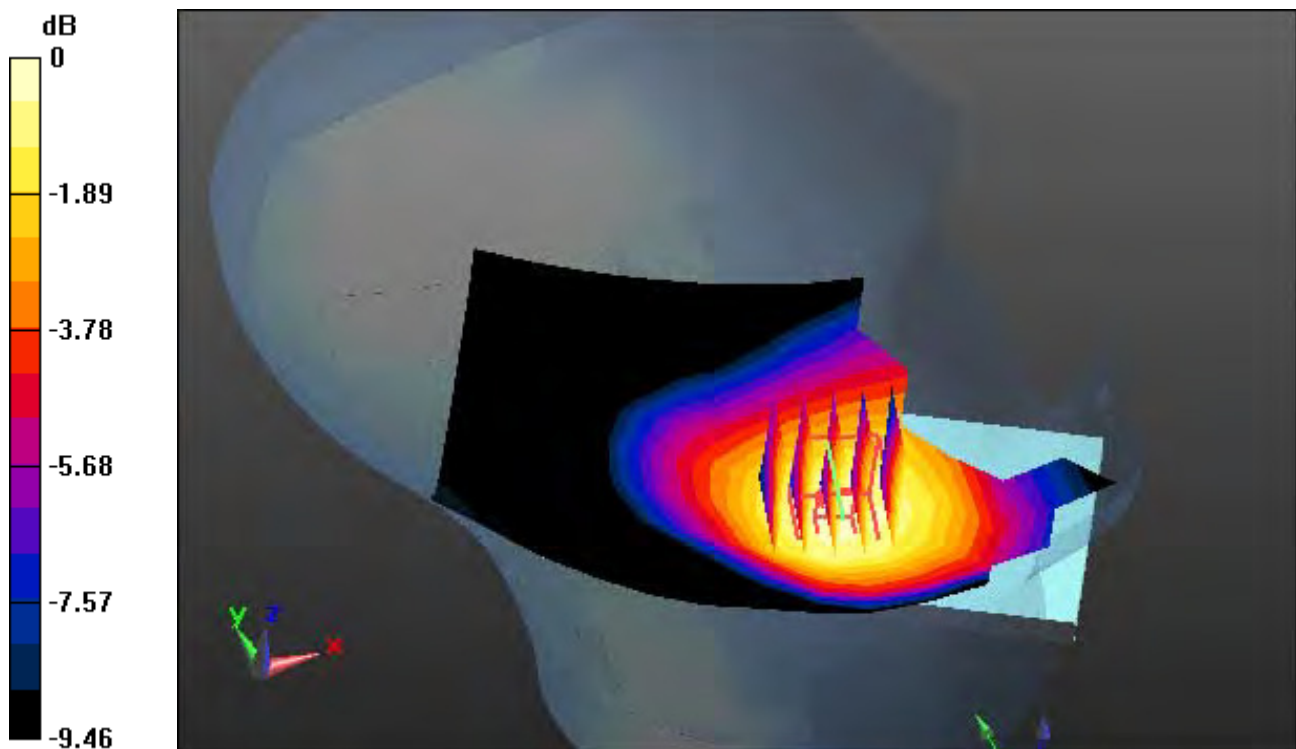
Area Scan (9x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.297 W/kg

SAR(1 g) = 0.236 W/kg; SAR(10 g) = 0.181 W/kg



0 dB = 0.258 W/kg

DT&C Co., Ltd.

DUT: DS1803; Type: Bar

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

Medium parameters used: $f = 707.5 \text{ MHz}$; $\sigma = 0.871 \text{ S/m}$; $\epsilon_r = 42.204$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY5 Configuration:

Probe: ES3DV3 - SN3328; ConvF(6.76, 6.76, 6.76); Calibrated: 3/21/2017; Electronics: DAE4 Sn1394

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: 2018-02-27; Ambient Temp: 20.7; Tissue Temp: 20.5

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

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

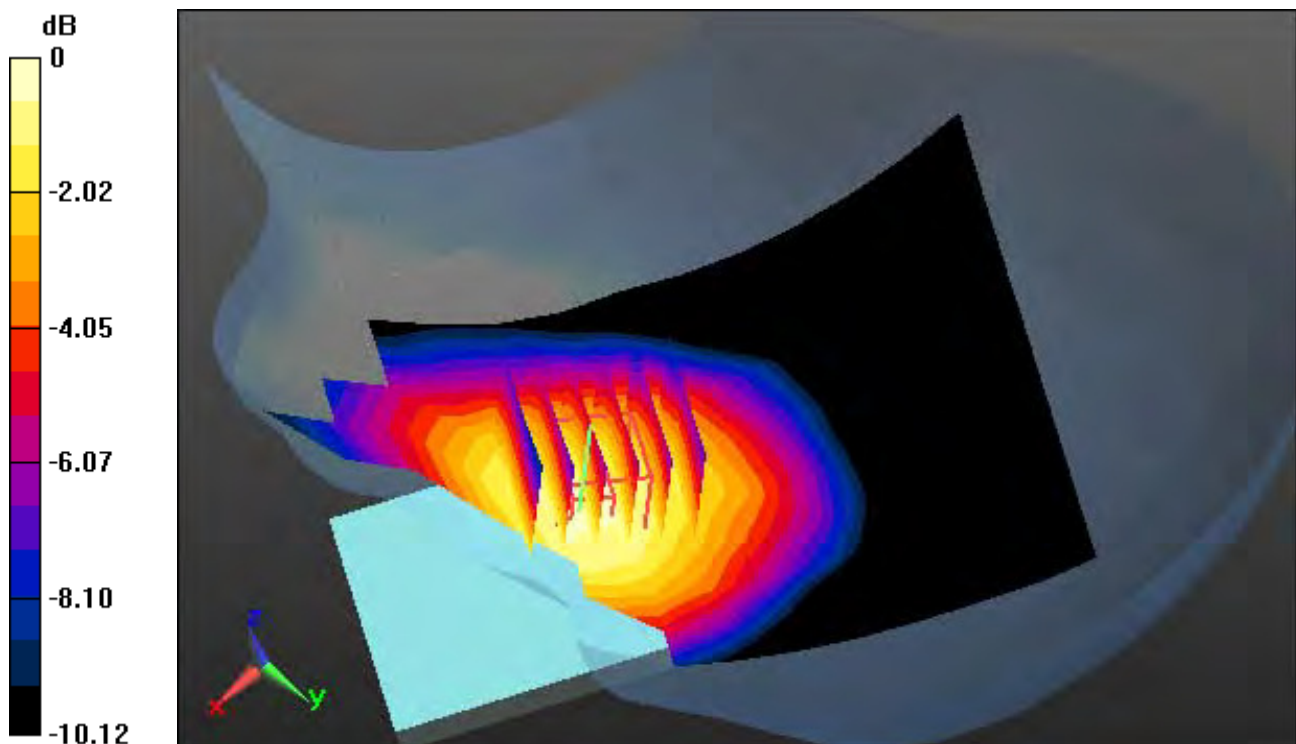
Area Scan (9x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.105 W/kg

SAR(1 g) = 0.085 W/kg; SAR(10 g) = 0.067 W/kg



0 dB = 0.0924 W/kg

DT&C Co., Ltd.

DUT: DS1803; Type: Bar

Communication System: UID 0, LTE Band 5 (FCC) (0); Frequency: 836.5 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.5 \text{ MHz}$; $\sigma = 0.925 \text{ S/m}$; $\epsilon_r = 42.369$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY5 Configuration:

Probe: ES3DV3 - SN3328; ConvF(6.5, 6.5, 6.5); Calibrated: 3/21/2017; Electronics: DAE4 Sn1394
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: 2018-02-21; Ambient Temp: 21.0; Tissue Temp: 20.7

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

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

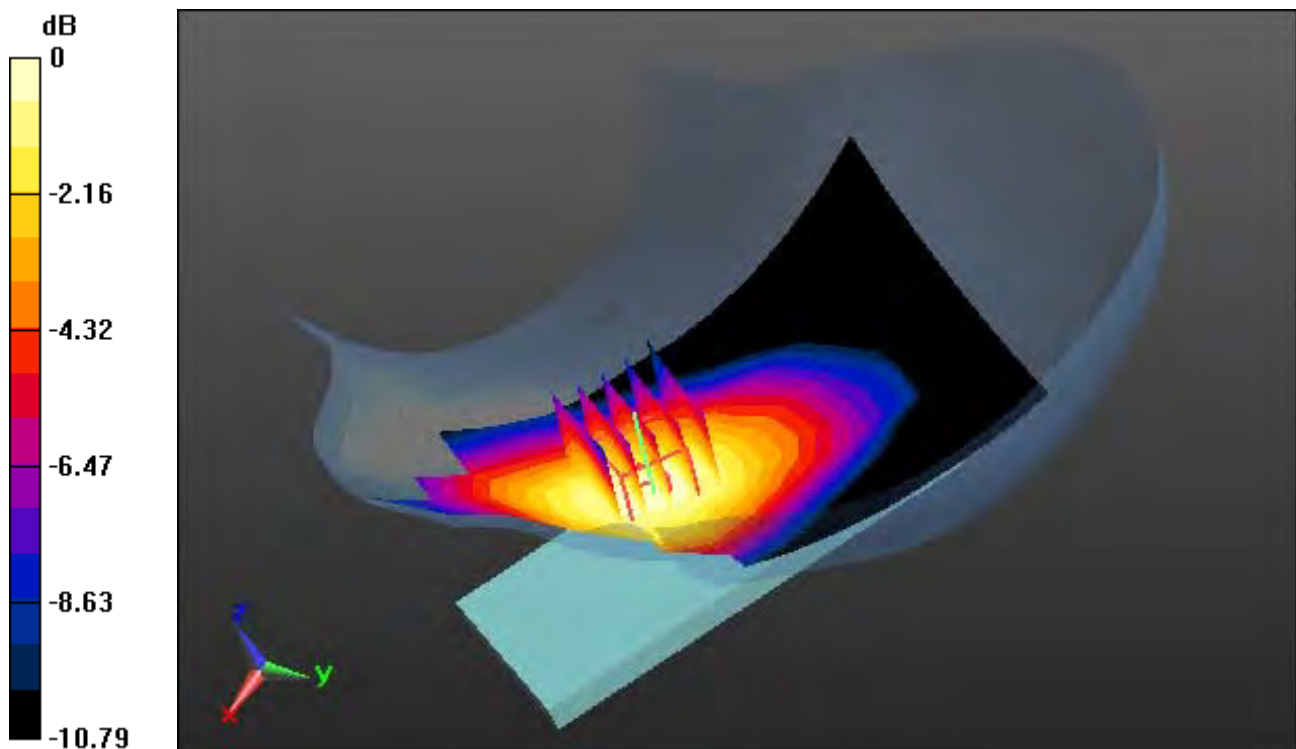
Area Scan (9x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (6x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.317 W/kg

SAR(1 g) = 0.255 W/kg; SAR(10 g) = 0.197 W/kg



0 dB = 0.275 W/kg

DT&C Co., Ltd.

DUT: DS1803; Type: Bar

Communication System: UID 0, 2.4 GHz W-LAN (0); Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.885 \text{ S/m}$; $\epsilon_r = 40.137$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(7.7, 7.7, 7.7); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335

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: 2018-02-22; Ambient Temp: 21.6; Tissue Temp: 21.8

Right Touch, WLAN(802.11b) Ch. 11, Ant Internal, Standard Battery

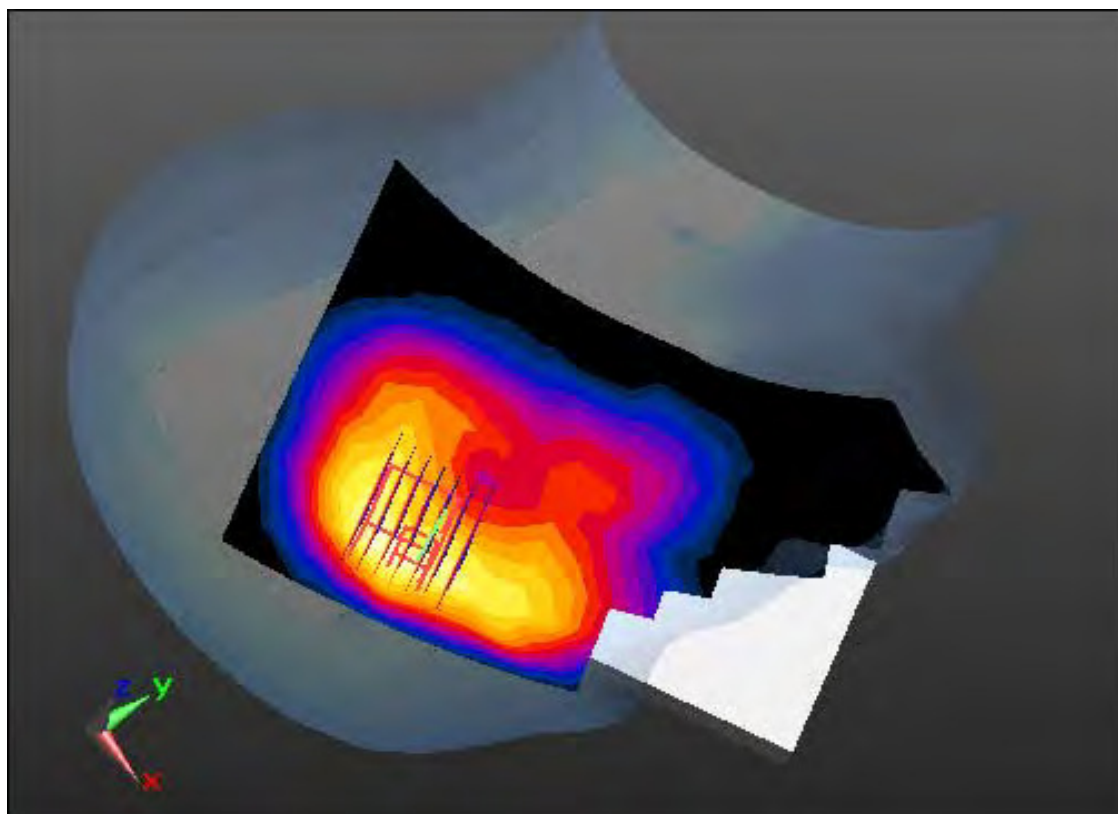
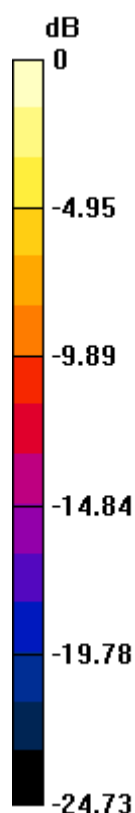
Area Scan (11x16x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

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

Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.402 W/kg; SAR(10 g) = 0.177 W/kg



0 dB = 0.668 W/kg

DT&C Co., Ltd.

DUT: DS1803; Type: Bar

Communication System: UID 0, W-LAN 5G (0); Frequency: 5320 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5320 \text{ MHz}$; $\sigma = 4.968 \text{ S/m}$; $\epsilon_r = 35.04$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(5.61, 5.61, 5.61); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335

Sensor-Surface: 1.4mm (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: 2018-02-23; Ambient Temp: 21.6; Tissue Temp: 21.4

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

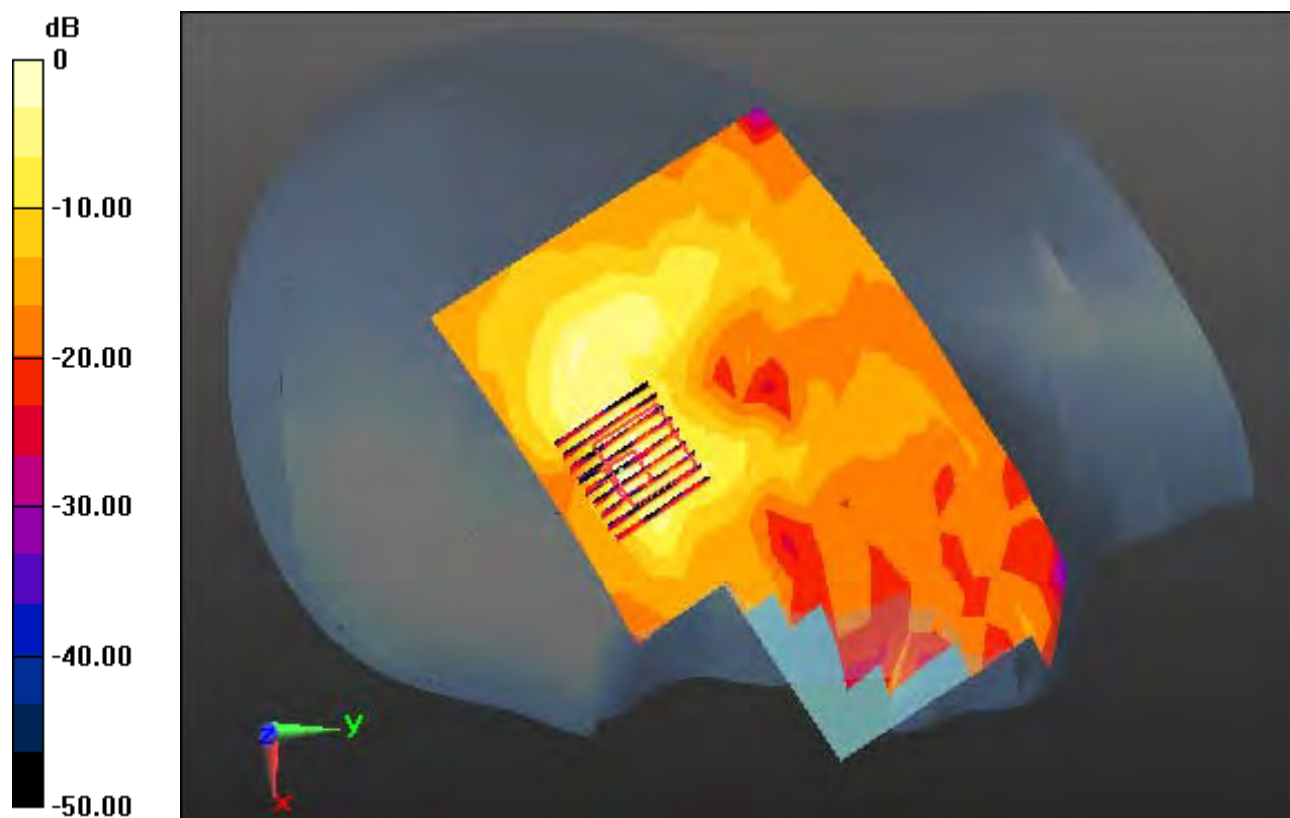
Area Scan (13x20x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Zoom Scan (9x9x7)/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) = 0.643 W/kg

SAR(1 g) = 0.114 W/kg; SAR(10 g) = 0.039 W/kg



0 dB = 0.394 W/kg

DT&C Co., Ltd.

DUT: DS1803; Type: Bar

Communication System: UID 0, W-LAN 5G (0); Frequency: 5500 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5500$ MHz; $\sigma = 5.152$ S/m; $\epsilon_r = 34.626$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(5.1, 5.1, 5.1); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335

Sensor-Surface: 1.4mm (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: 2018-02-26; Ambient Temp: 21.8; Tissue Temp: 21.4

Right Touch, WLAN(802.11a) Ch. 100, Ant Internal, Standard Battery

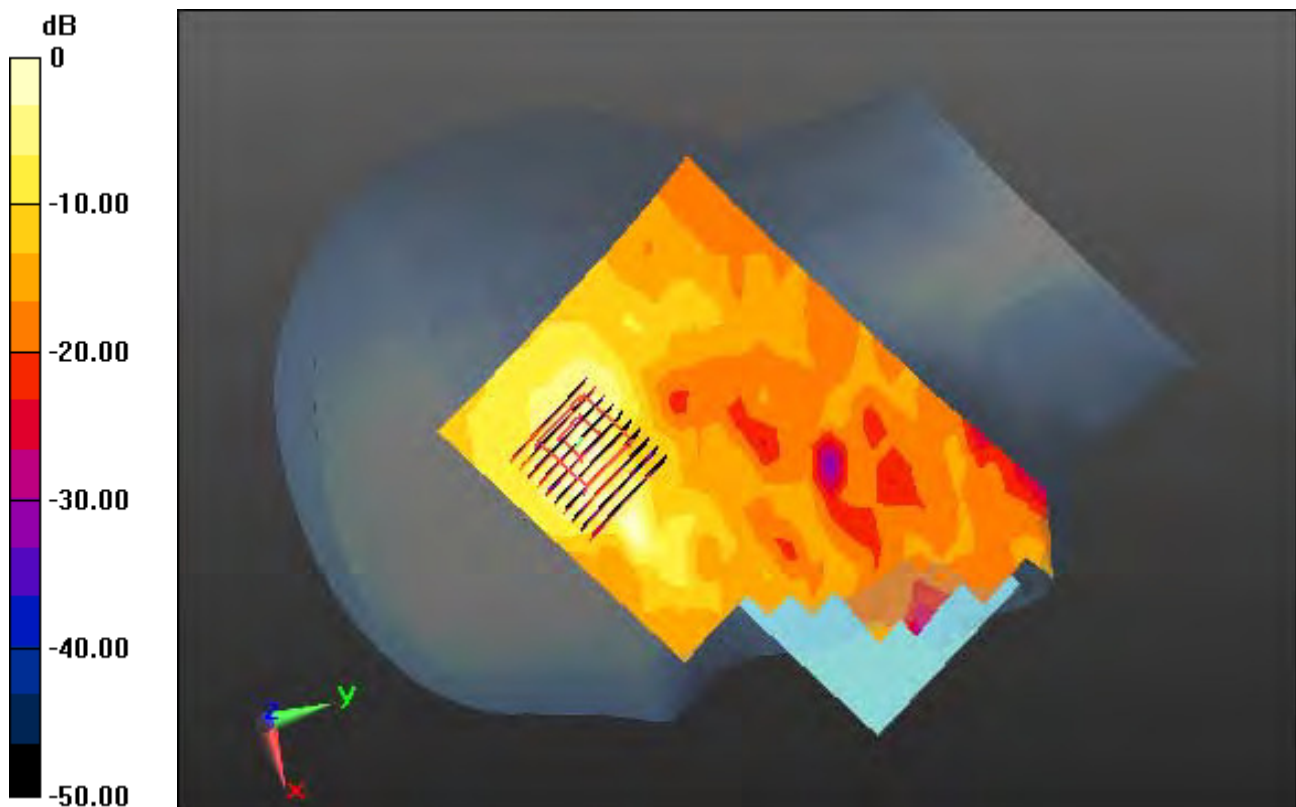
Area Scan (13x20x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (10x10x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm, Graded Ratio: 1.4

Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.617 W/kg

SAR(1 g) = 0.144 W/kg; SAR(10 g) = 0.046 W/kg



0 dB = 0.383 W/kg

DT&C Co., Ltd.

DUT: DS1803; Type: Bar

Communication System: UID 0, W-LAN 5G (0); Frequency: 5825 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5825 \text{ MHz}$; $\sigma = 5.493 \text{ S/m}$; $\epsilon_r = 34.233$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(5, 5, 5); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335

Sensor-Surface: 1.4mm (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: 2018-02-27; Ambient Temp: 22.1; Tissue Temp: 22.5

Right Tilt, WLAN(802.11a) Ch. 165, Ant Internal, Standard Battery

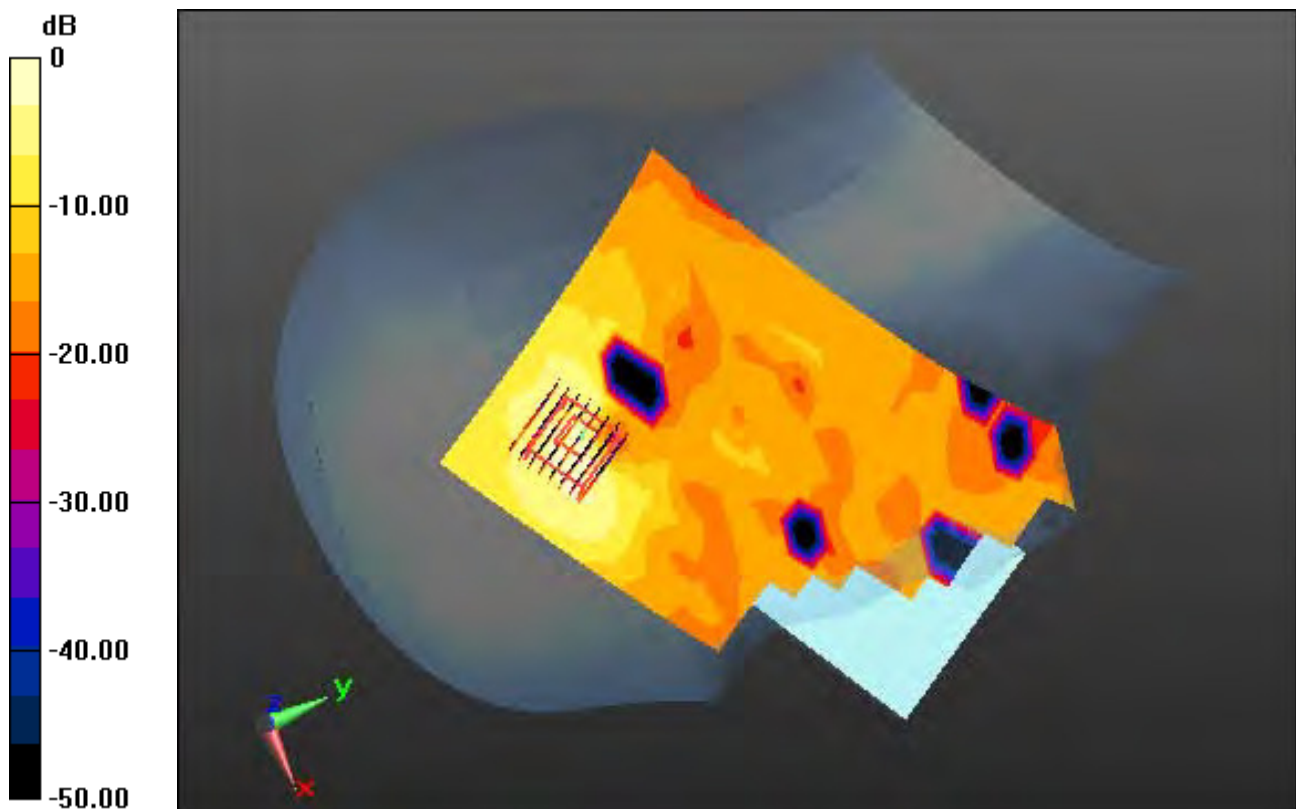
Area Scan (13x19x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

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 = 0.00 dB

Peak SAR (extrapolated) = 0.464 W/kg

SAR(1 g) = 0.104 W/kg; SAR(10 g) = 0.032 W/kg



0 dB = 0.288 W/kg

DT&C Co., Ltd.

DUT: DS1803; Type: Bar

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

Medium parameters used: $f = 2441 \text{ MHz}$; $\sigma = 1.859 \text{ S/m}$; $\epsilon_r = 40.189$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(7.7, 7.7, 7.7); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335

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: 2018-02-22; Ambient Temp: 21.6; Tissue Temp: 21.8

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

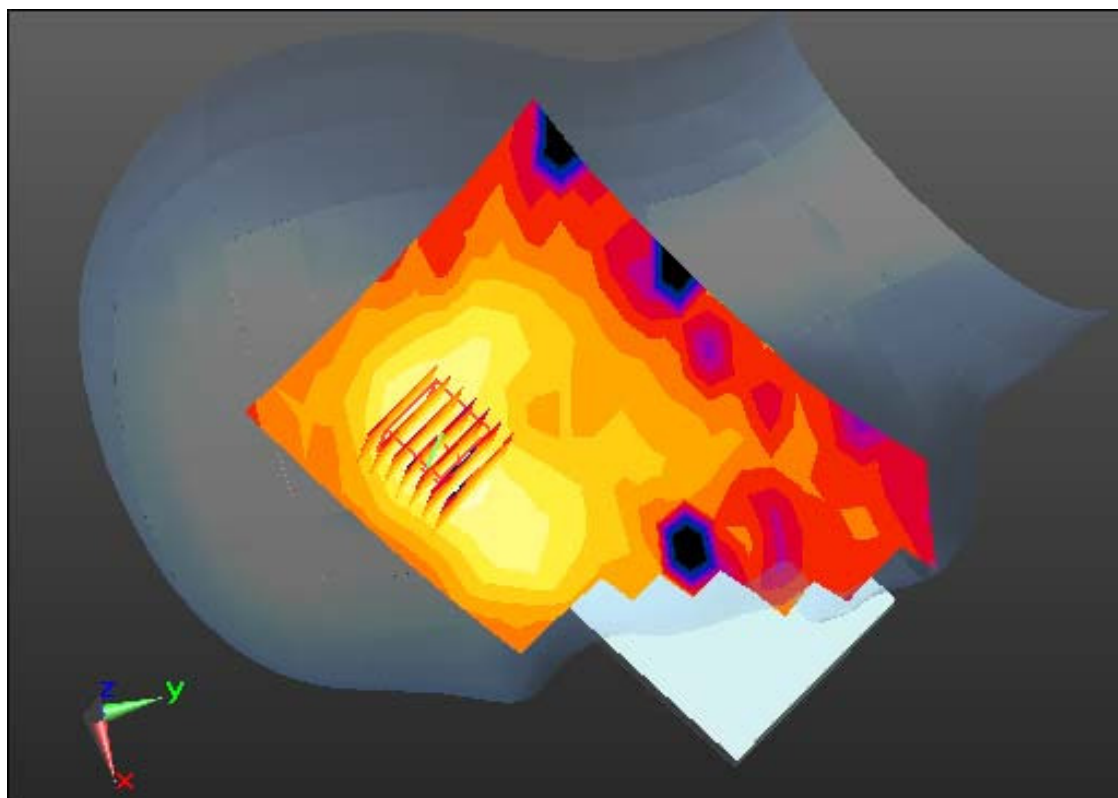
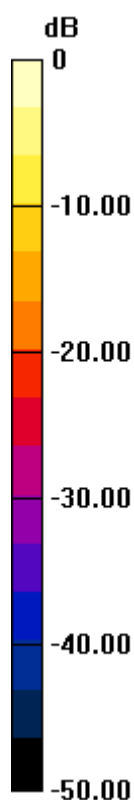
Area Scan (11x16x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

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) = 0.250 W/kg

SAR(1 g) = 0.091 W/kg; SAR(10 g) = 0.038 W/kg



0 dB = 0.158 W/kg

DT&C Co., Ltd.

DUT: DS1803; 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; $\sigma = 0.965$ S/m; $\epsilon_r = 53.383$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3328; ConvF(6.35, 6.35, 6.35); Calibrated: 3/21/2017; Electronics: DAE4 Sn1394

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: 2018-02-22; Ambient Temp: 20.9; Tissue Temp: 20.5

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

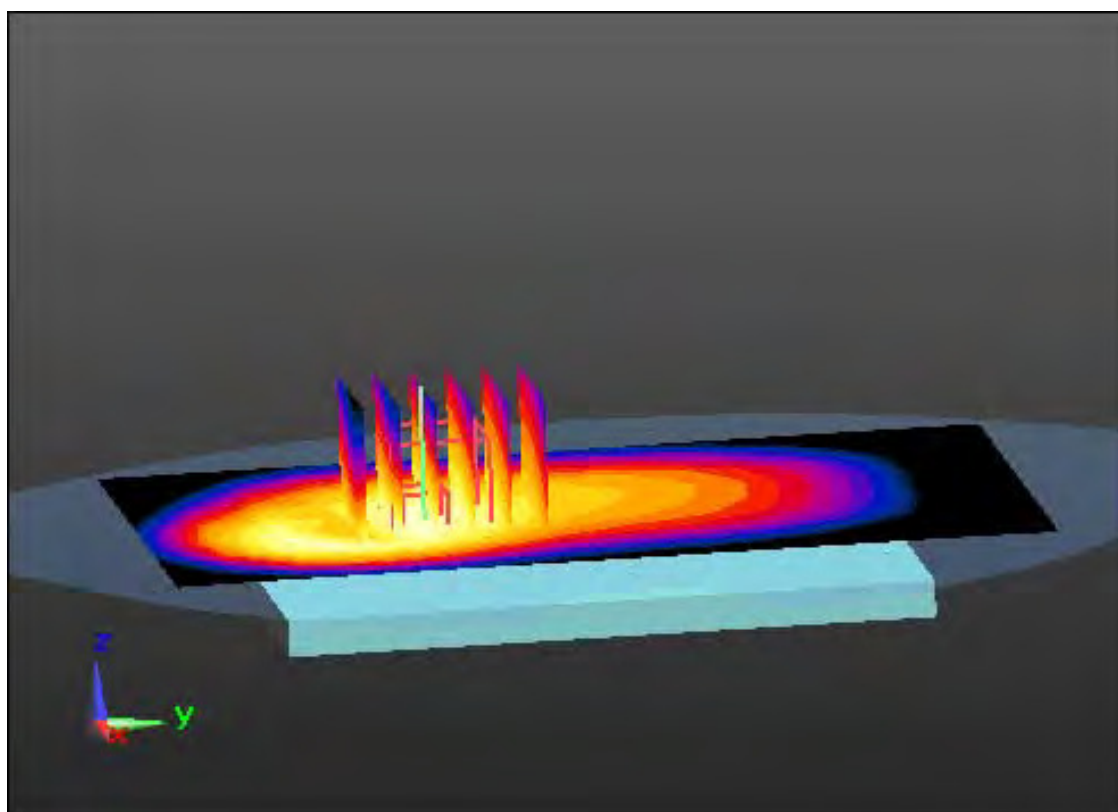
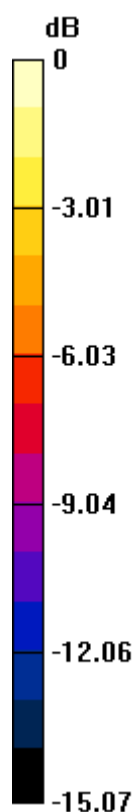
Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

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

Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.612 W/kg

SAR(1 g) = 0.395 W/kg; SAR(10 g) = 0.265 W/kg



0 dB = 0.455 W/kg

DT&C Co., Ltd.

DUT: DS1803; Type: Bar

Communication System: UID 0, GSM 850_11 (0); Frequency: 836.6 MHz; Duty Cycle: 1:2.77

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.965$ S/m; $\epsilon_r = 53.383$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3328; ConvF(6.35, 6.35, 6.35); Calibrated: 3/21/2017; Electronics: DAE4 Sn1394

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: 2018-02-22; Ambient Temp: 20.9; Tissue Temp: 20.5

1 cm space from Body, Front, GSM850 GPRS 3 Tx Ch. 190, Ant Internal

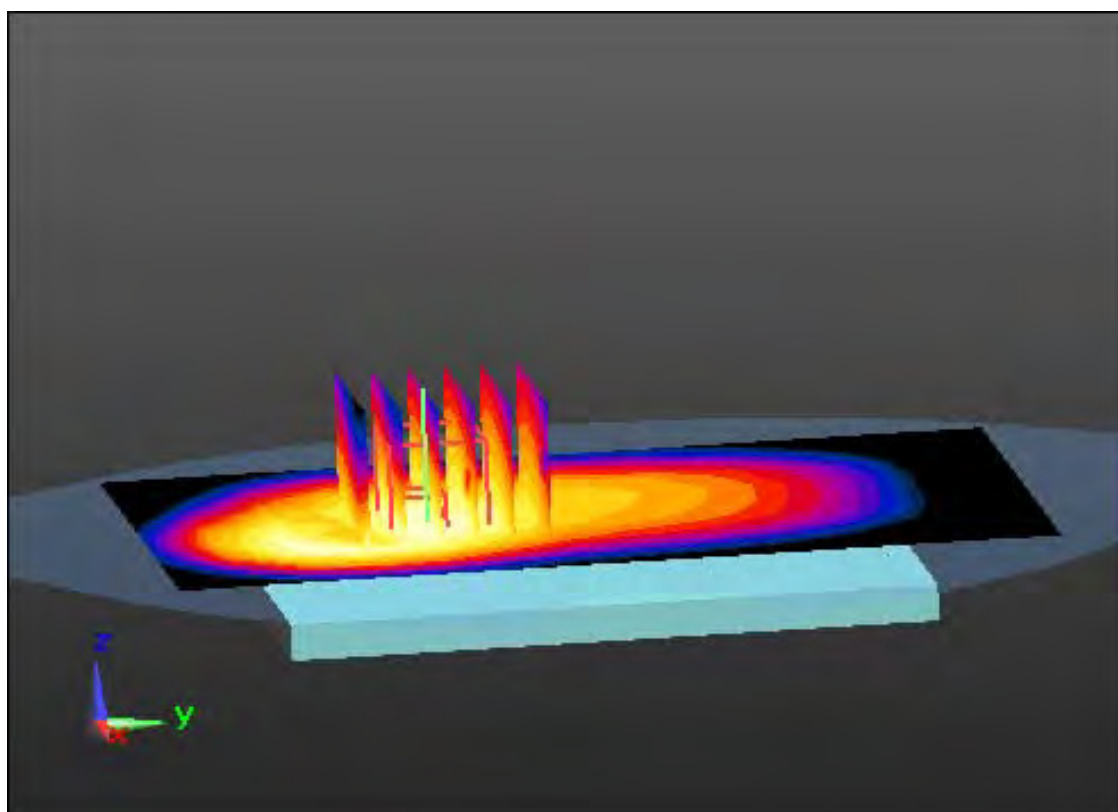
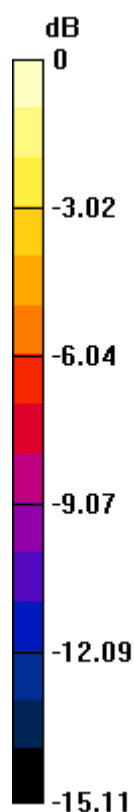
Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (7x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.727 W/kg

SAR(1 g) = 0.472 W/kg; SAR(10 g) = 0.315 W/kg



0 dB = 0.537 W/kg

DT&C Co., Ltd.

DUT: DS1803; Type: Bar

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.551$ S/m; $\epsilon_r = 54.241$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(8.2, 8.2, 8.2); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335

Sensor-Surface: 2mm (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: 2018-02-12; Ambient Temp: 21.1; Tissue Temp: 21.3

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

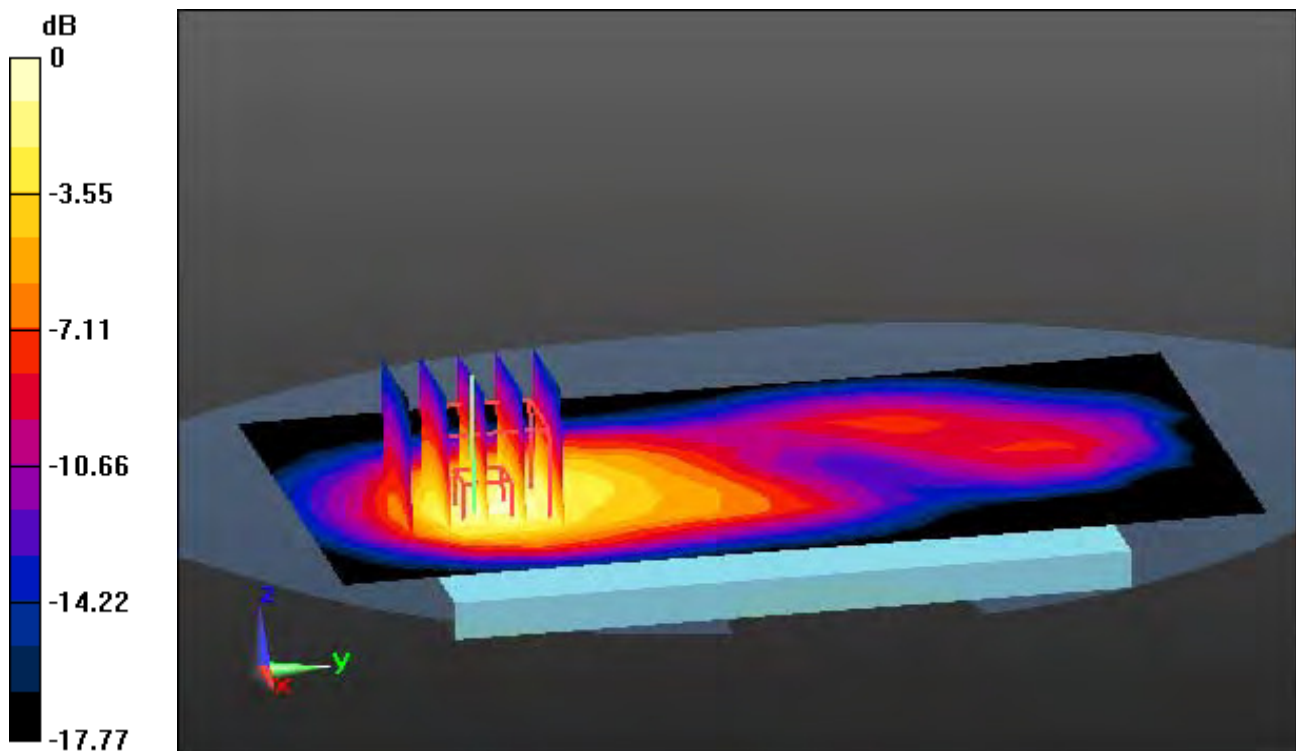
Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

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

Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.405 W/kg

SAR(1 g) = 0.239 W/kg; SAR(10 g) = 0.136 W/kg



0 dB = 0.324 W/kg

DT&C Co., Ltd.

DUT: DS1803; Type: Bar

Communication System: UID 0, PCS1900_Class 11 (0); Frequency: 1880 MHz; Duty Cycle: 1:2.77

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.551$ S/m; $\epsilon_r = 54.241$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(8.2, 8.2, 8.2); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335

Sensor-Surface: 2mm (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: 2018-02-12; Ambient Temp: 21.1; Tissue Temp: 21.3

1 cm space from Body, Rear, PCS1900 GPRS 3 Tx Ch. 661, Ant Internal

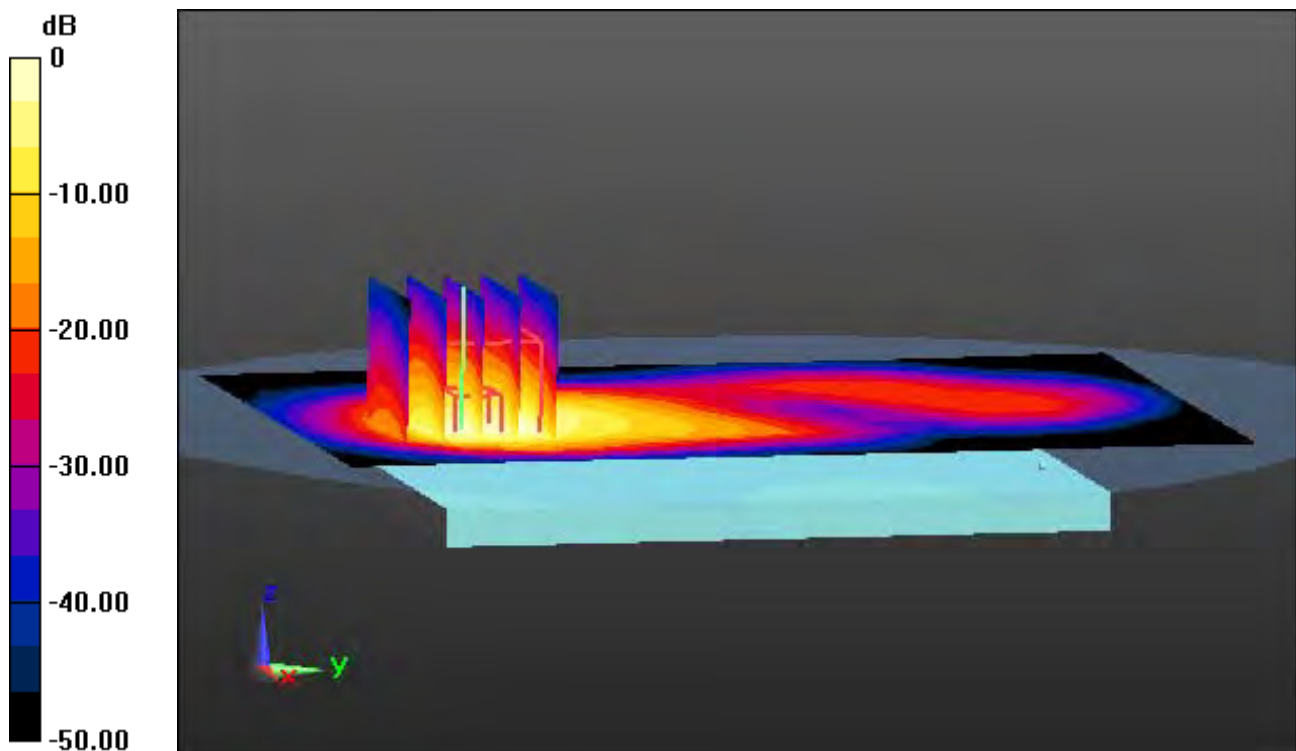
Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

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

Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.499 W/kg

SAR(1 g) = 0.294 W/kg; SAR(10 g) = 0.167 W/kg



0 dB = 0.400 W/kg

DT&C Co., Ltd.

DUT: DS1803; Type: Bar

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

Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.965 \text{ S/m}$; $\epsilon_r = 53.383$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3328; ConvF(6.35, 6.35, 6.35); Calibrated: 3/21/2017; Electronics: DAE4 Sn1394

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: 2018-02-22; Ambient Temp: 20.9; Tissue Temp: 20.5

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

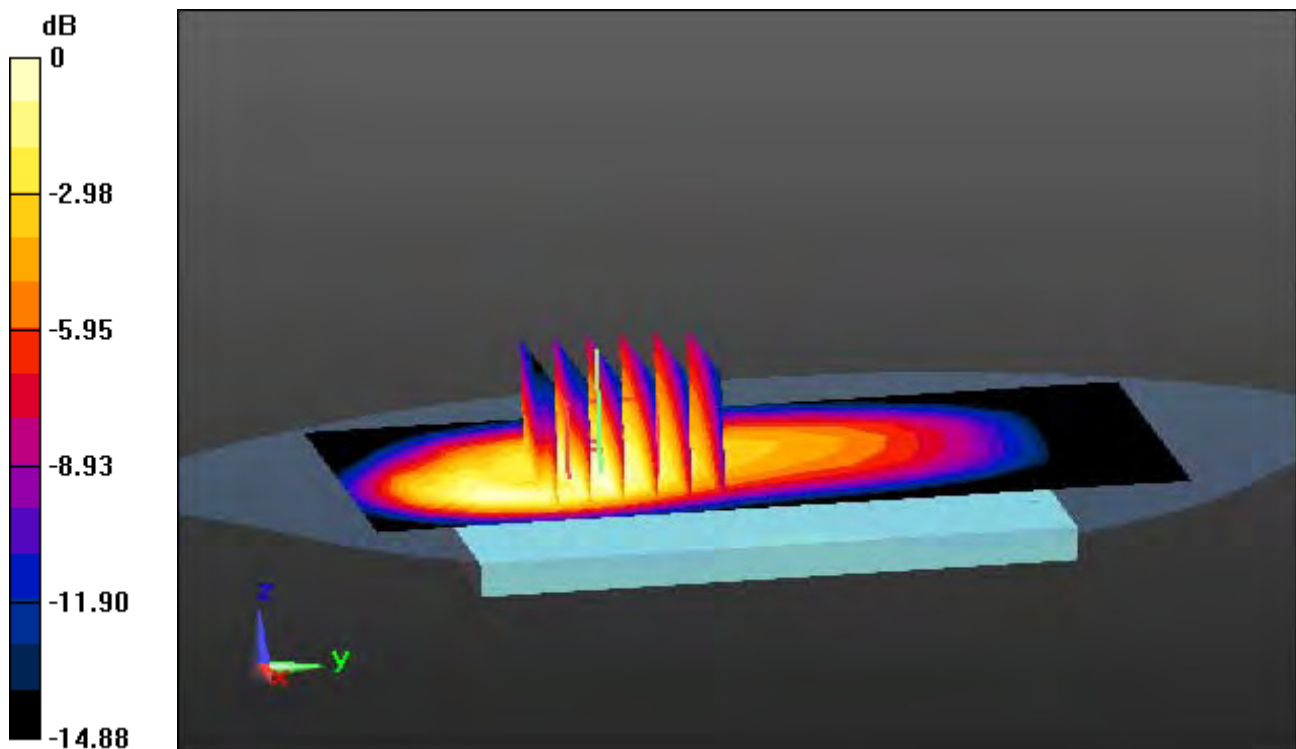
Area Scan (9x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (8x6x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.957 W/kg

SAR(1 g) = 0.624 W/kg; SAR(10 g) = 0.418 W/kg



0 dB = 0.709 W/kg

DT&C Co., Ltd.

DUT: DS1803; 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; $\sigma = 0.937$ S/m; $\epsilon_r = 57.45$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3328; ConvF(6.46, 6.46, 6.46); Calibrated: 3/21/2017; Electronics: DAE4 Sn1394
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: 2018-02-26; 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

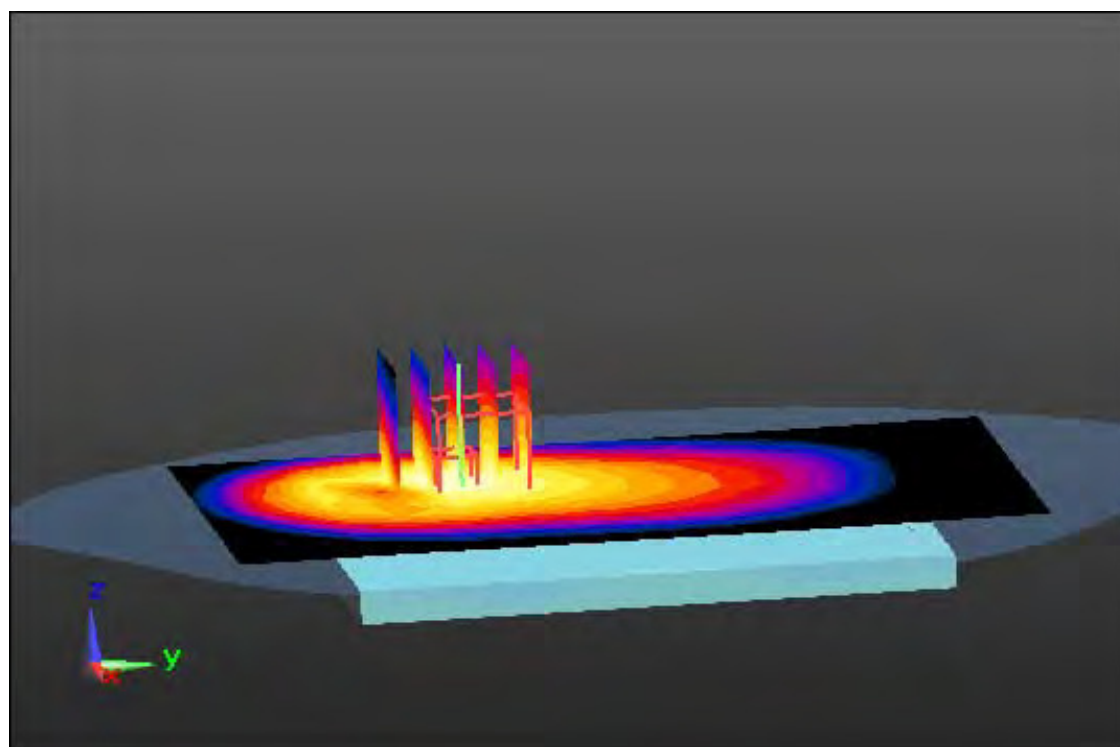
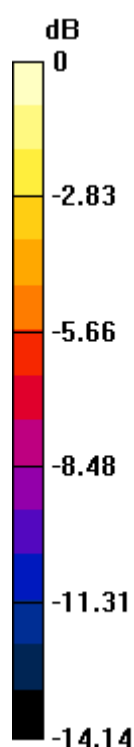
Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

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

Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.742 W/kg

SAR(1 g) = 0.465 W/kg; SAR(10 g) = 0.305 W/kg



0 dB = 0.534 W/kg

DT&C Co., Ltd.

DUT: DS1803; 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; $\sigma = 0.965$ S/m; $\epsilon_r = 53.383$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3328; ConvF(6.35, 6.35, 6.35); Calibrated: 3/21/2017; Electronics: DAE4 Sn1394

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: 2018-02-22; Ambient Temp: 20.9; Tissue Temp: 20.5

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

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

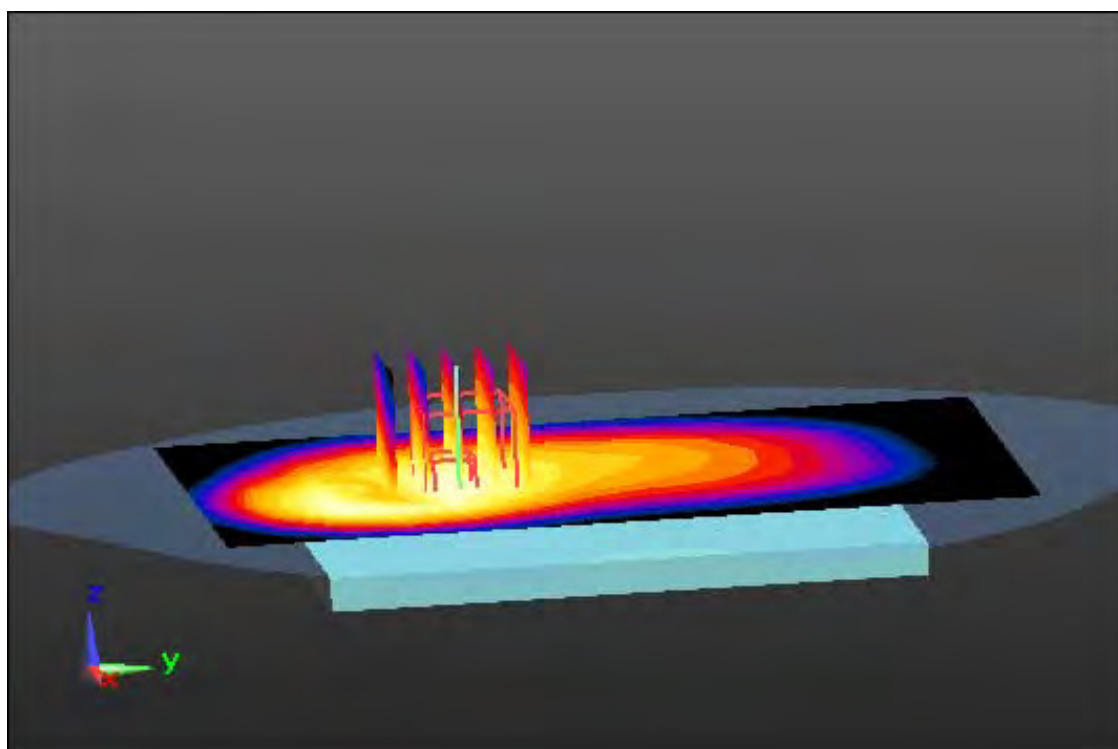
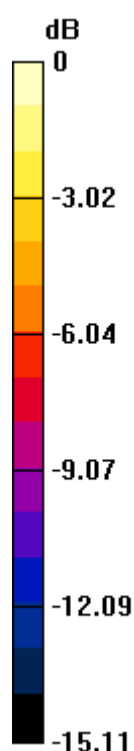
Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

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

Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.04 W/kg

SAR(1 g) = 0.665 W/kg; SAR(10 g) = 0.445 W/kg



0 dB = 0.761 W/kg

DT&C Co., Ltd.

DUT: DS1803; Type: Bar

Communication System: UID 0, 2.4 GHz W-LAN (0); Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 2.01 \text{ S/m}$; $\epsilon_r = 52.036$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(7.88, 7.88, 7.88); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335

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: 2018-02-22; Ambient Temp: 21.6; Tissue Temp: 21.5

1 cm space from Body, Front, WLAN(802.11b) Ch. 11, Ant Internal

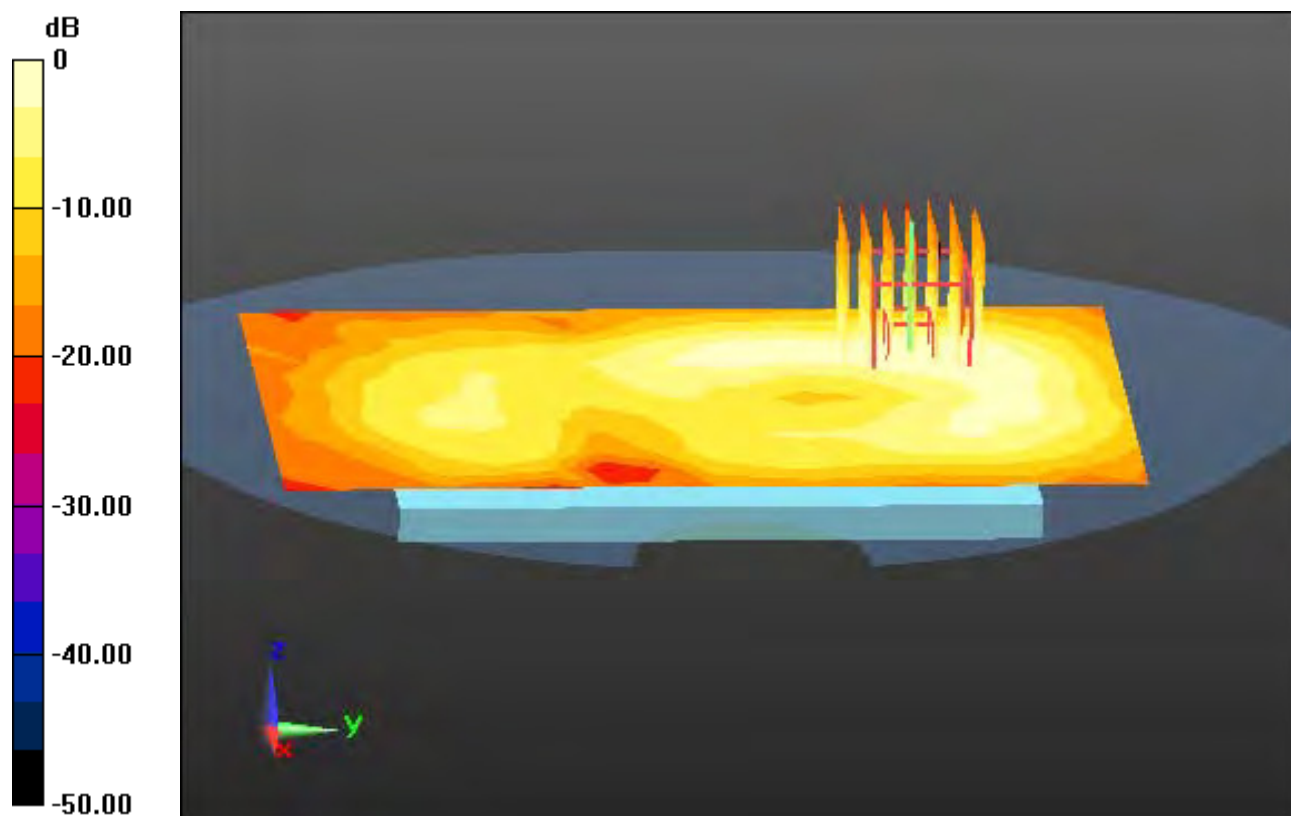
Area Scan (11x17x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

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

Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.159 W/kg

SAR(1 g) = 0.082 W/kg; SAR(10 g) = 0.041 W/kg



0 dB = 0.121 W/kg

DT&C Co., Ltd.

DUT: DS1803; Type: Bar

Communication System: UID 0, W-LAN 5G (0); Frequency: 5320 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5320 \text{ MHz}$; $\sigma = 5.474 \text{ S/m}$; $\epsilon_r = 49.343$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(5.1, 5.1, 5.1); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335

Sensor-Surface: 1.4mm (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: 2018-02-23; Ambient Temp: 21.6; Tissue Temp: 21.7

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

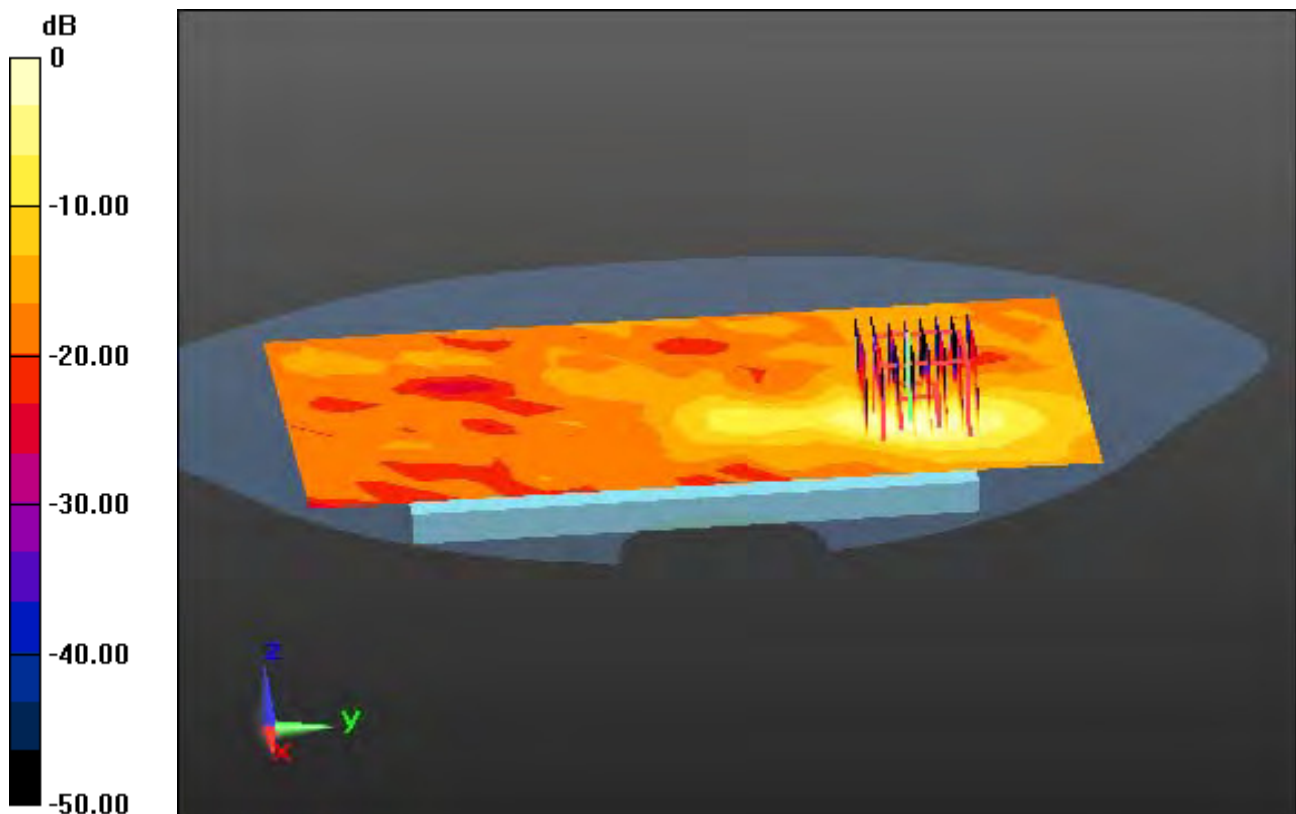
Area Scan (13x21x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

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 = -0.04 dB

Peak SAR (extrapolated) = 0.581 W/kg

SAR(1 g) = 0.142 W/kg; SAR(10 g) = 0.042 W/kg



0 dB = 0.336 W/kg

DT&C Co., Ltd.

DUT: DS1803; Type: Bar

Communication System: UID 0, W-LAN 5G (0); Frequency: 5500 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5500$ MHz; $\sigma = 5.805$ S/m; $\epsilon_r = 48.478$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(4.5, 4.5, 4.5); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335

Sensor-Surface: 1.4mm (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: 2018-02-26; Ambient Temp: 21.8; Tissue Temp: 21.6

1 cm space from Body, Rear, WLAN(802.11a) Ch. 100, Ant Internal

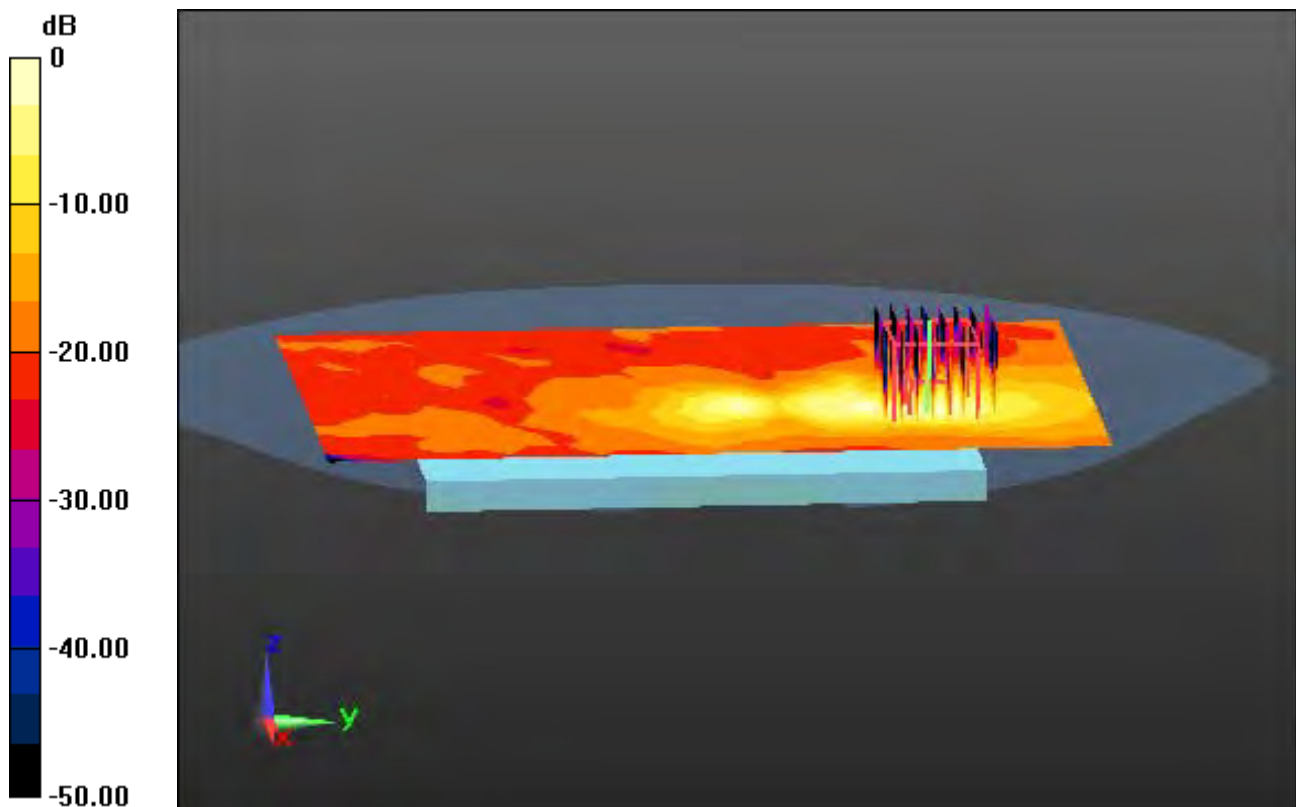
Area Scan (13x21x1): Measurement grid: dx=10mm, dy=10mm

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

Power Drift = -0.14 dB

Peak SAR (extrapolated) = 1.77 W/kg

SAR(1 g) = 0.399 W/kg; SAR(10 g) = 0.111 W/kg



DT&C Co., Ltd.

DUT: DS1803; Type: Bar

Communication System: UID 0, W-LAN 5G (0); Frequency: 5825 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5825 \text{ MHz}$; $\sigma = 6.247 \text{ S/m}$; $\epsilon_r = 48.041$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(4.61, 4.61, 4.61); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335

Sensor-Surface: 1.4mm (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: 2018-02-27; Ambient Temp: 22.1; Tissue Temp: 22.2

1 cm space from Body, Rear, WLAN(802.11a) Ch. 165, Ant Internal

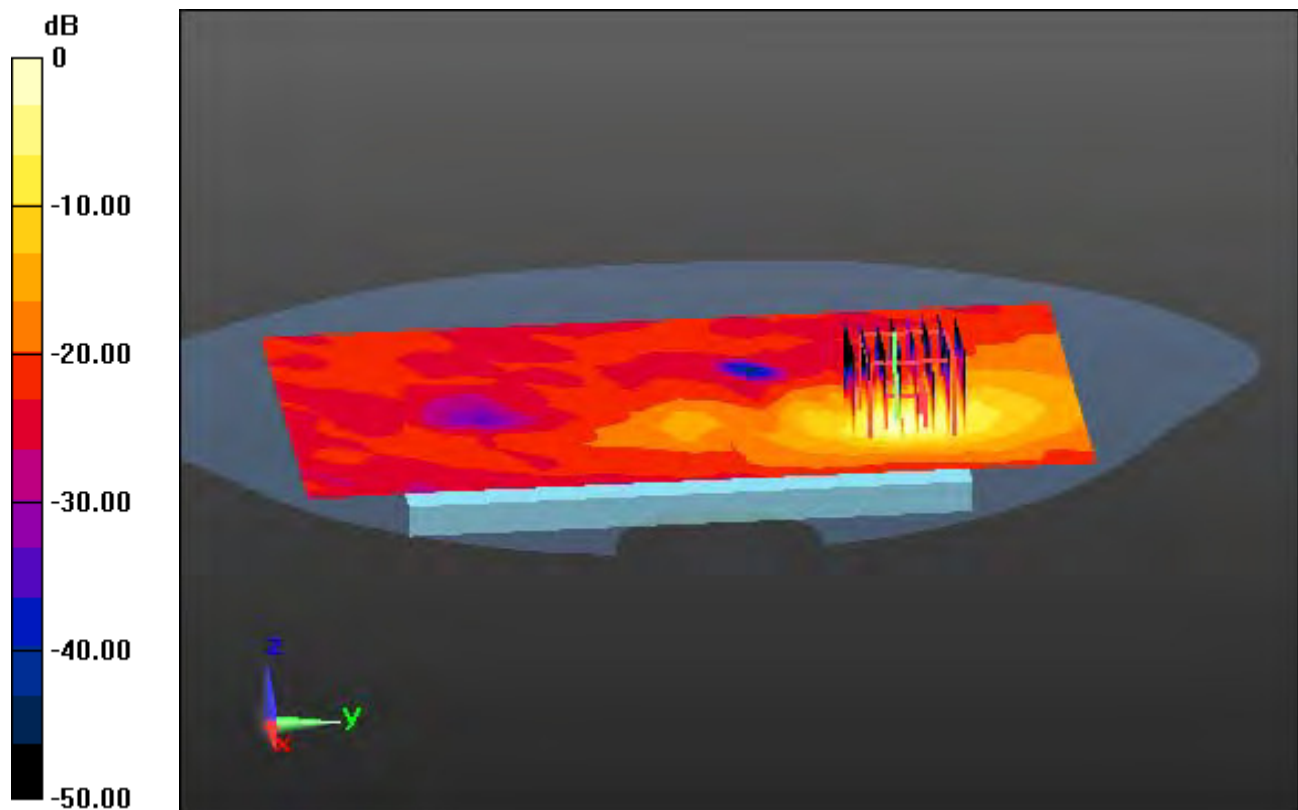
Area Scan (13x21x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

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 = 0.18 dB

Peak SAR (extrapolated) = 3.31 W/kg

SAR(1 g) = 0.687 W/kg; SAR(10 g) = 0.192 W/kg



0 dB = 1.76 W/kg

DT&C Co., Ltd.

DUT: DS1803; Type: Bar

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

Medium parameters used: $f = 2441$ MHz; $\sigma = 1.988$ S/m; $\epsilon_r = 52.066$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(7.88, 7.88, 7.88); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335

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: 2018-02-22; Ambient Temp: 21.6; Tissue Temp: 21.5

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

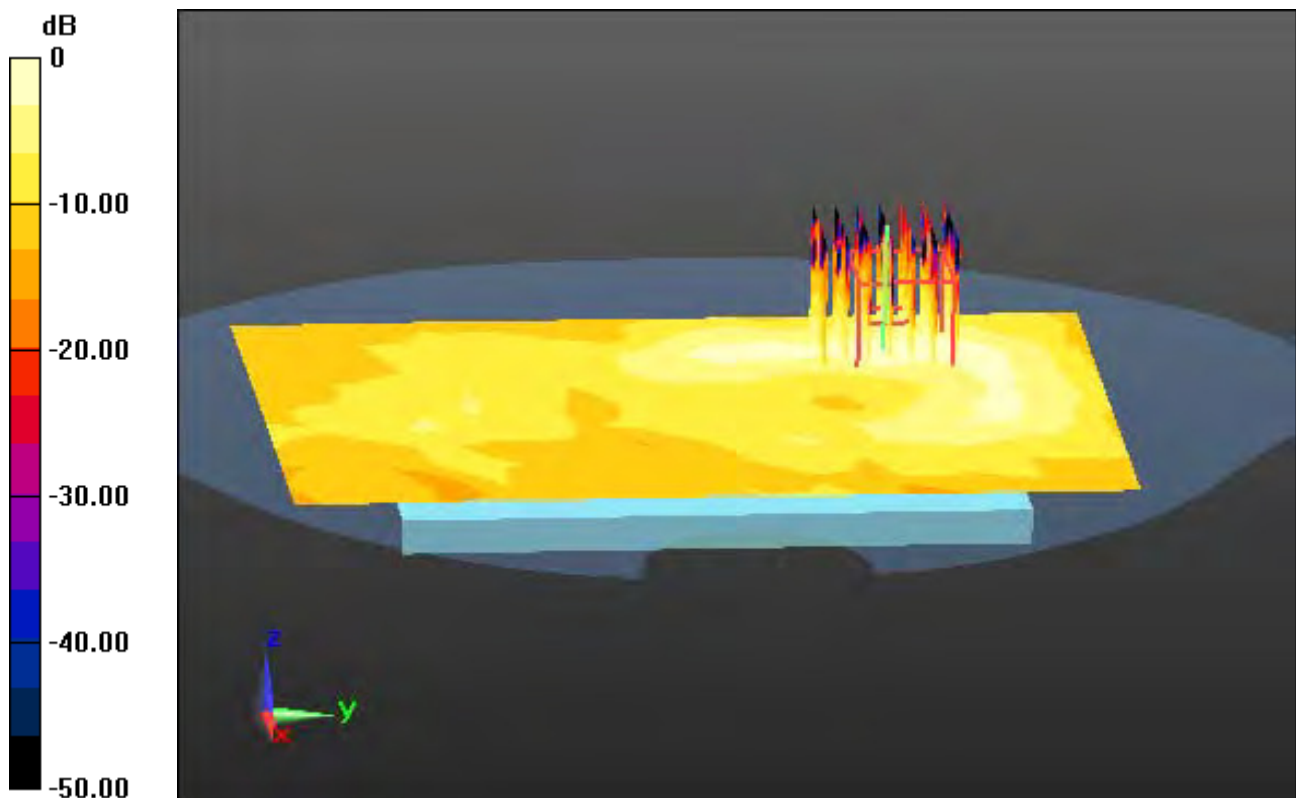
Area Scan (11x17x1): Measurement grid: dx=12mm, dy=12mm

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

Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.0410 W/kg

SAR(1 g) = 0.017 W/kg; SAR(10 g) = 0.00749 W/kg



0 dB = 0.0298 W/kg

DT&C Co., Ltd.

DUT: DS1803; Type: Bar

Communication System: UID 0, 2.4 GHz W-LAN (0); Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 2.01 \text{ S/m}$; $\epsilon_r = 52.036$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(7.88, 7.88, 7.88); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335

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: 2018-02-22; Ambient Temp: 21.6; Tissue Temp: 21.5

1 cm space from Body, Left, WLAN(802.11b) Ch. 11, Ant Internal

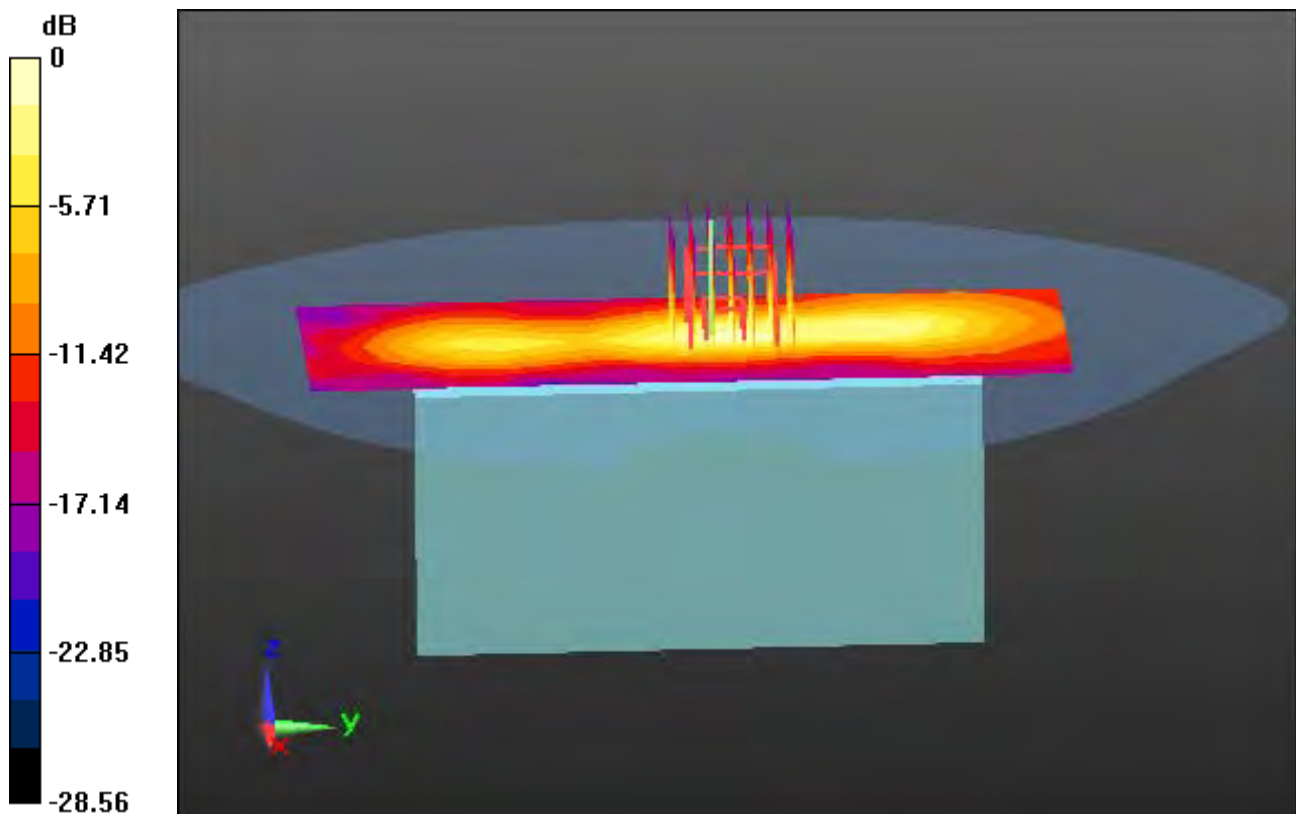
Area Scan (7x17x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

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

Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.219 W/kg

SAR(1 g) = 0.111 W/kg; SAR(10 g) = 0.055 W/kg



0 dB = 0.166 W/kg

DT&C Co., Ltd.

DUT: DS1803; Type: Bar

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

Medium parameters used: $f = 2441 \text{ MHz}$; $\sigma = 1.988 \text{ S/m}$; $\epsilon_r = 52.066$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(7.88, 7.88, 7.88); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335

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: 2018-02-22; Ambient Temp: 21.6; Tissue Temp: 21.5

1 cm space from Body, Left, Bluetooth 1M Ch. 39, Ant Internal

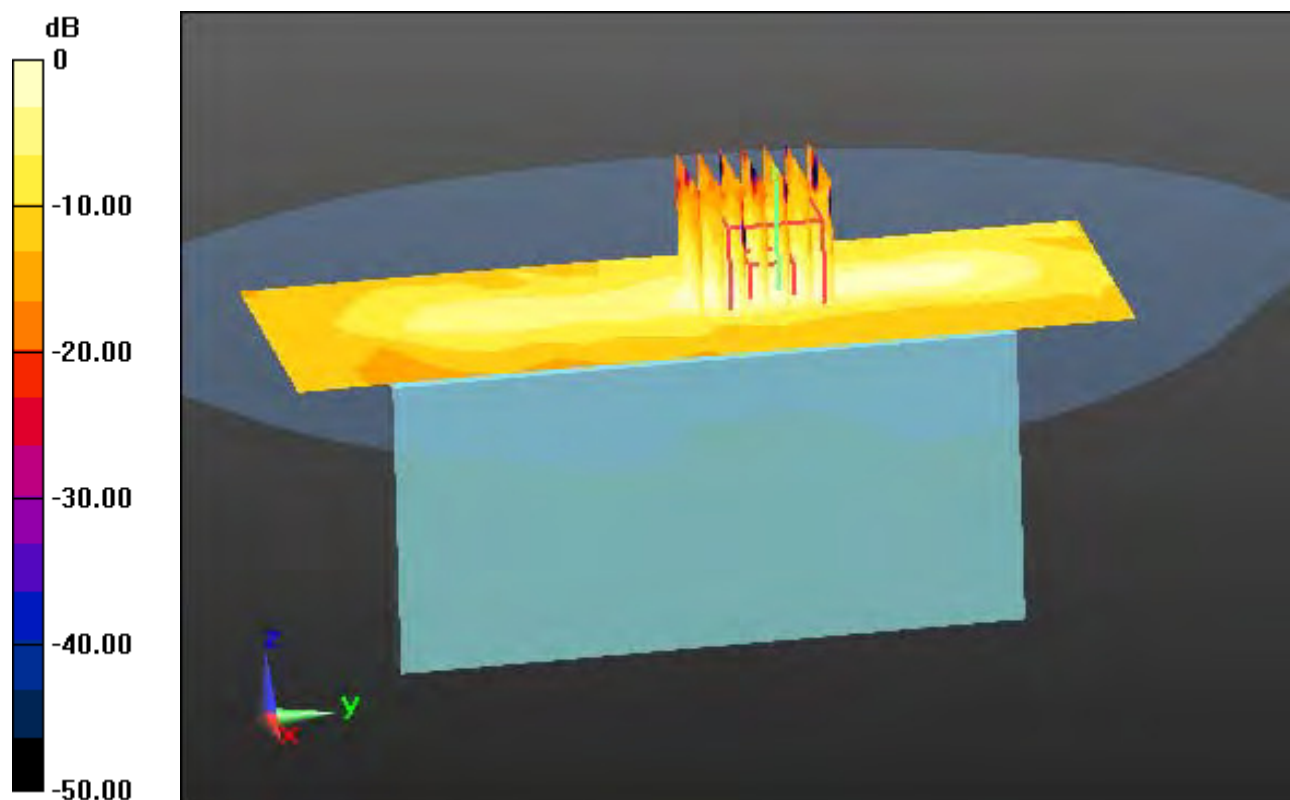
Area Scan (7x17x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

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) = 0.0440 W/kg

SAR(1 g) = 0.022 W/kg; SAR(10 g) = 0.011 W/kg



0 dB = 0.0333 W/kg

DT&C Co., Ltd.

DUT: DS1803; Type: Bar

Communication System: UID 0, W-LAN 5G (0); Frequency: 5180 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5180 \text{ MHz}$; $\sigma = 5.363 \text{ S/m}$; $\epsilon_r = 50.113$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(5.41, 5.41, 5.41); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335

Sensor-Surface: 1.4mm (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: 2018-03-21; Ambient Temp: 21.0; Tissue Temp: 22.0

1 cm space from Body, Rear, WLAN(802.11a) Ch. 36, Ant Internal

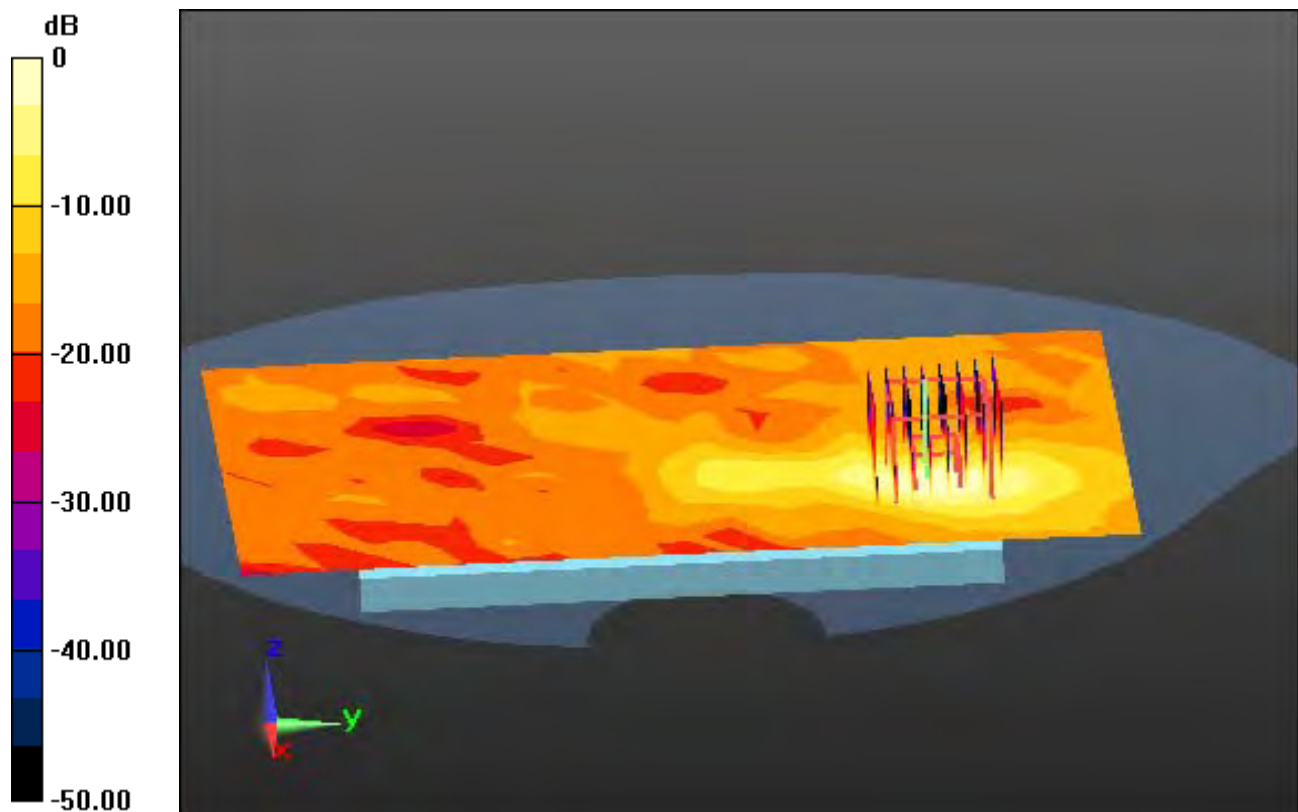
Area Scan (13x21x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

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 = -0.04 dB

Peak SAR (extrapolated) = 0.562 W/kg

SAR(1 g) = 0.132 W/kg; SAR(10 g) = 0.039 W/kg



0 dB = 0.316 W/kg