

SAR Plots

- Verification Plots
- SAR Test Plots

Dt&C Co., Ltd.

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

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

Medium parameters used: $f = 5200$ MHz; $\sigma = 4.567$ S/m; $\epsilon_r = 37.254$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(5.36, 5.29, 5.92); Calibrated: 4/24/2023 Electronics: DAE4 Sn1335

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Phantom: Twin-SAM V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: TP:1220

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Test Date: 2023-08-25; Ambient Temp: 21.9; Tissue Temp: 22.0

5200 MHz System Verification (100 mW)

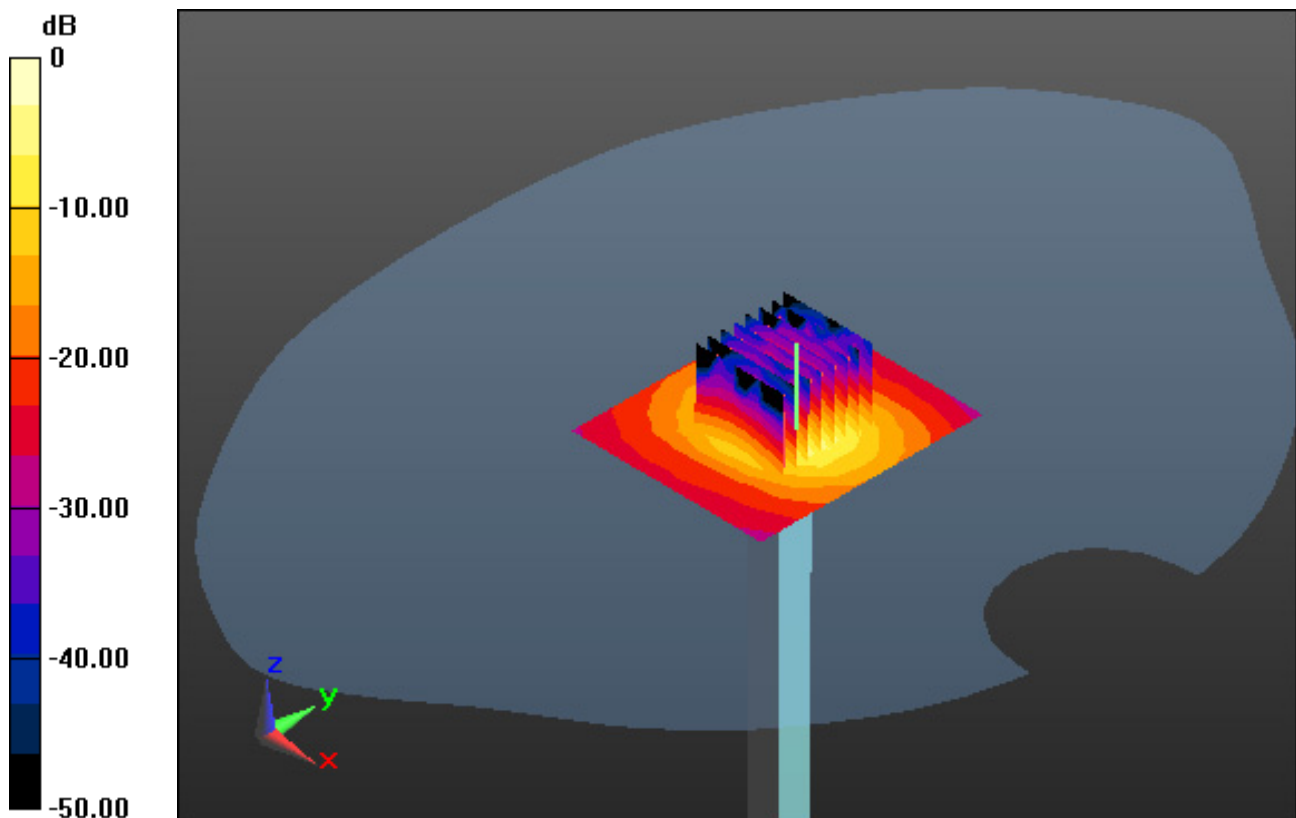
Area Scan (7x8x1): Measurement grid: dx=10mm, dy=10mm

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) = 32.3 W/kg

SAR(1 g) = 7.98 W/kg; SAR(10 g) = 2.25 W/kg



Dt&C Co., Ltd.

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

Communication System: UID 0, CW (0); Frequency: 5800 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5800$ MHz; $\sigma = 5.387$ S/m; $\epsilon_r = 34.242$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(4.92, 4.78, 5.37); Calibrated: 4/24/2023 Electronics: DAE4 Sn1335

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Phantom: Twin-SAM V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: TP:1220

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

Test Date: 2023-08-24; Ambient Temp: 21.7; Tissue Temp: 21.8

5800 MHz System Verification (100 mW)

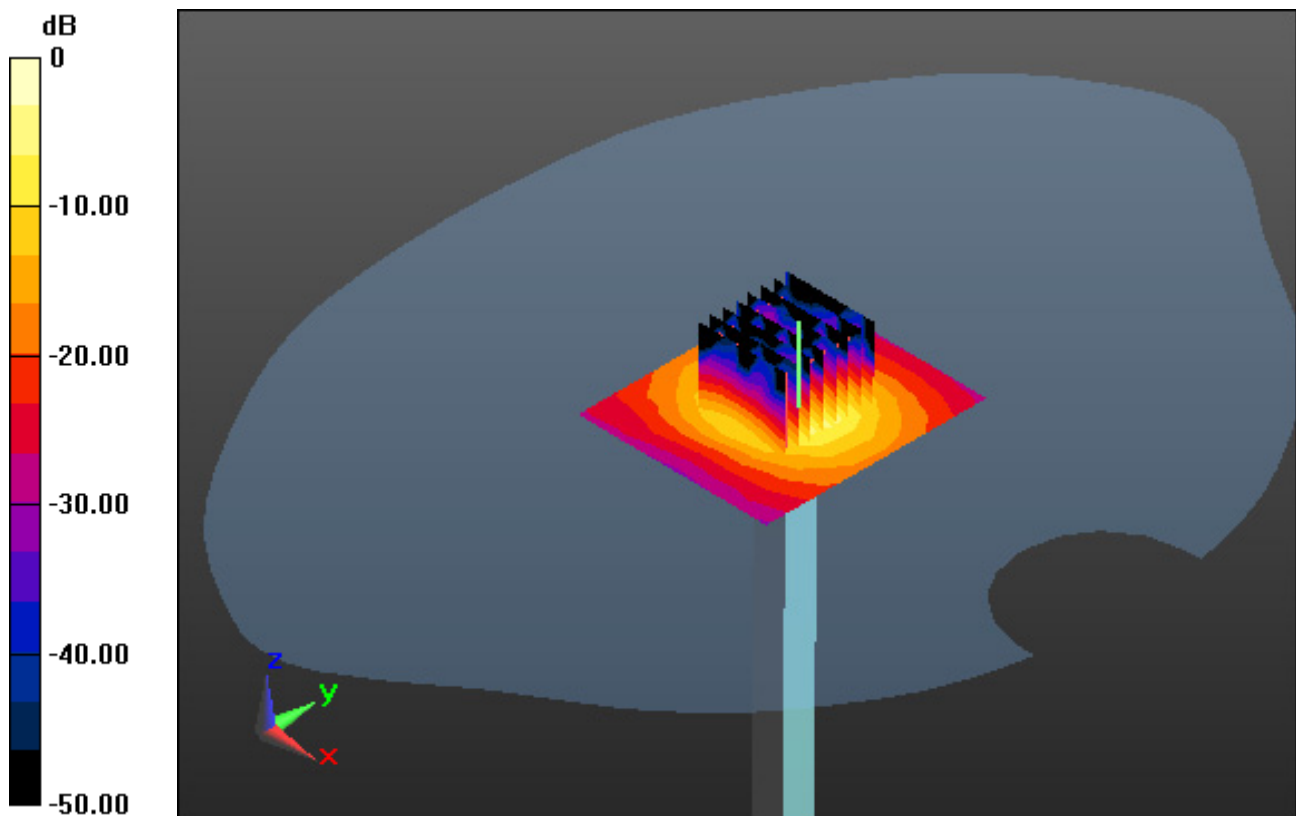
Area Scan (7x8x1): Measurement grid: dx=10mm, dy=10mm

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

Power Drift = 0.00 dB

Peak SAR (extrapolated) = 36.2 W/kg

SAR(1 g) = 8.31 W/kg; SAR(10 g) = 2.32 W/kg



0 dB = 18.7 W/kg

Dt&C Co., Ltd.

DUT: Freedom I; Type: Scanner

Communication System: UID 0, 5G W-LAN (0); Frequency: 5230 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5230 \text{ MHz}$; $\sigma = 4.608 \text{ S/m}$; $\epsilon_r = 37.218$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(5.36, 5.29, 5.92) @ 5230 MHz; Calibrated: 4/24/2023 Electronics: DAE4 Sn1335

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Phantom: Twin-SAM V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: 1220

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Test Date: 2023-08-25; Ambient Temp: 21.9; Tissue Temp: 22.0

Touch from Body, Front, WLAN(802.11ac VHT40) Ch. 46 Ant Internal

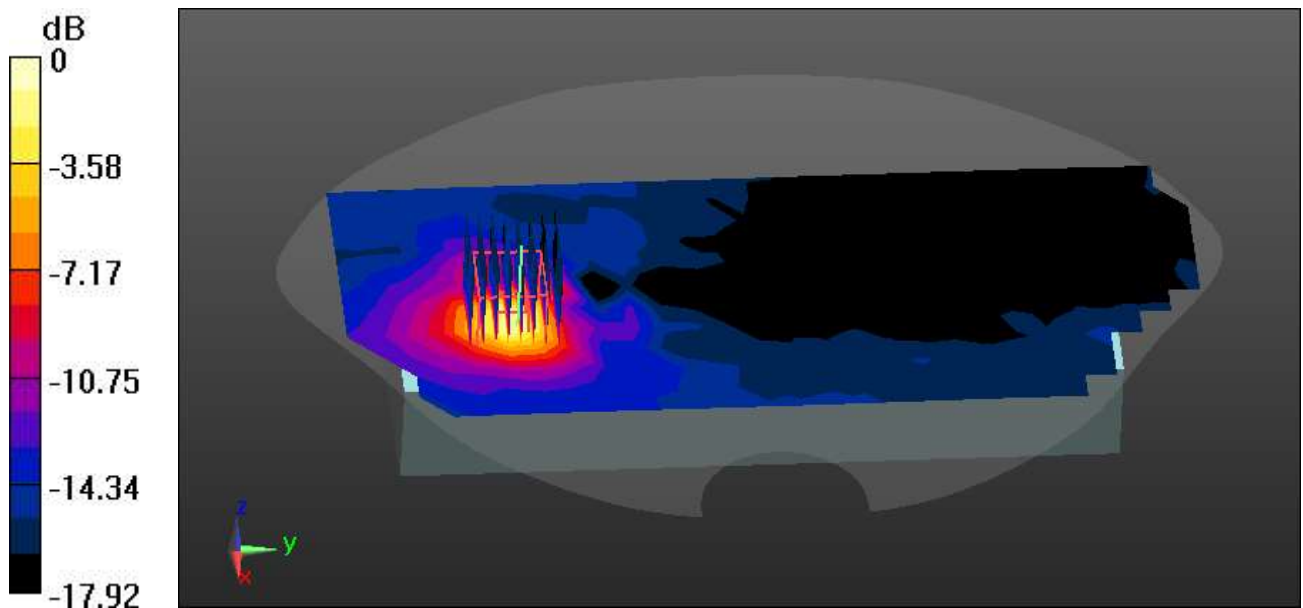
Area Scan (12x28x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Zoom Scan (8x8x8)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$, Graded Ratio: 1.4

Power Drift = 0.17 dB

Peak SAR (extrapolated) = 2.26 W/kg

SAR(1 g) = 0.615 W/kg; SAR(10 g) = 0.224 W/kg



0 dB = 1.34 W/kg

Dt&C Co., Ltd.

DUT: Freedom I; Type: Scanner

Communication System: UID 0, 5G W-LAN (0); Frequency: 5230 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5230 \text{ MHz}$; $\sigma = 4.608 \text{ S/m}$; $\epsilon_r = 37.218$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(5.36, 5.29, 5.92) @ 5230 MHz; Calibrated: 4/24/2023 Electronics: DAE4 Sn1335

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Phantom: Twin-SAM V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: 1220

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Test Date: 2023-08-25; Ambient Temp: 21.9; Tissue Temp: 22.0

Touch from Body, Front, WLAN(802.11ac VHT40) Ch. 46 Ant Internal, Ant.2

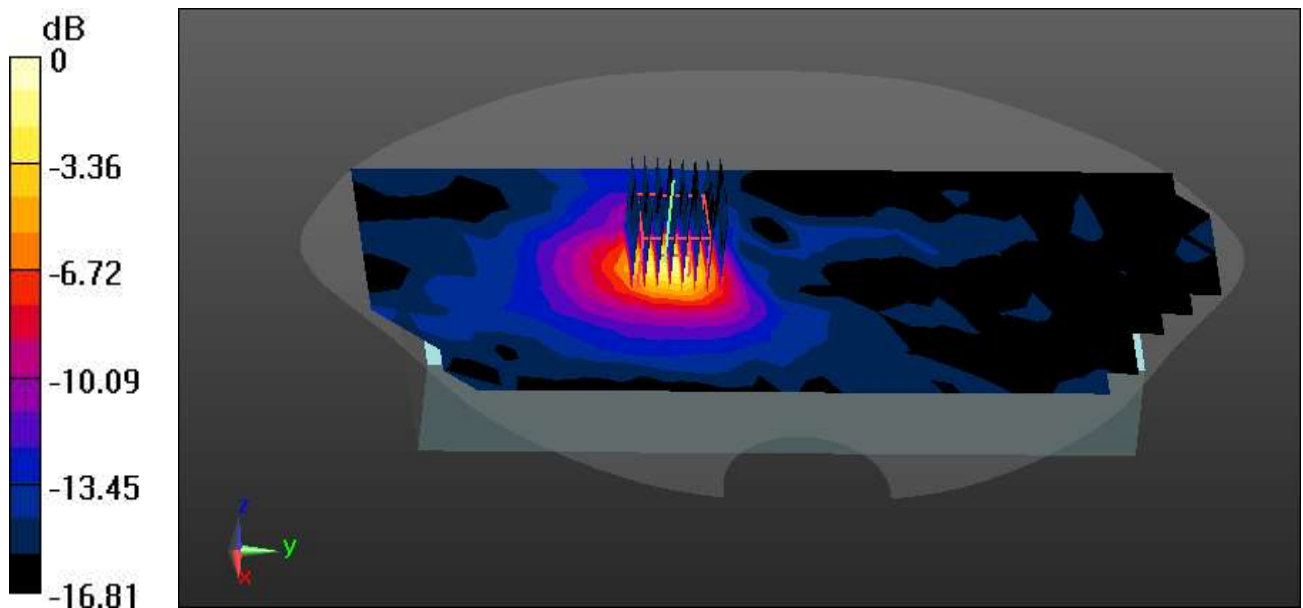
Area Scan (12x28x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Zoom Scan (8x8x8)/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) = 1.65 W/kg

SAR(1 g) = 0.456 W/kg; SAR(10 g) = 0.174 W/kg



0 dB = 0.977 W/kg

Dt&C Co., Ltd.

DUT: Freedom I; Type: Scanner

Communication System: UID 0, 5G W-LAN (0); Frequency: 5230 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5230 \text{ MHz}$; $\sigma = 4.608 \text{ S/m}$; $\epsilon_r = 37.218$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(5.36, 5.29, 5.92) @ 5230 MHz; Calibrated: 4/24/2023 Electronics: DAE4 Sn1335

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Phantom: Twin-SAM V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: 1220

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Test Date: 2023-08-25; Ambient Temp: 21.9; Tissue Temp: 22.0

Touch from Body, Front, WLAN(802.11ac VHT40) Ch. 46 Ant Internal, MIMO

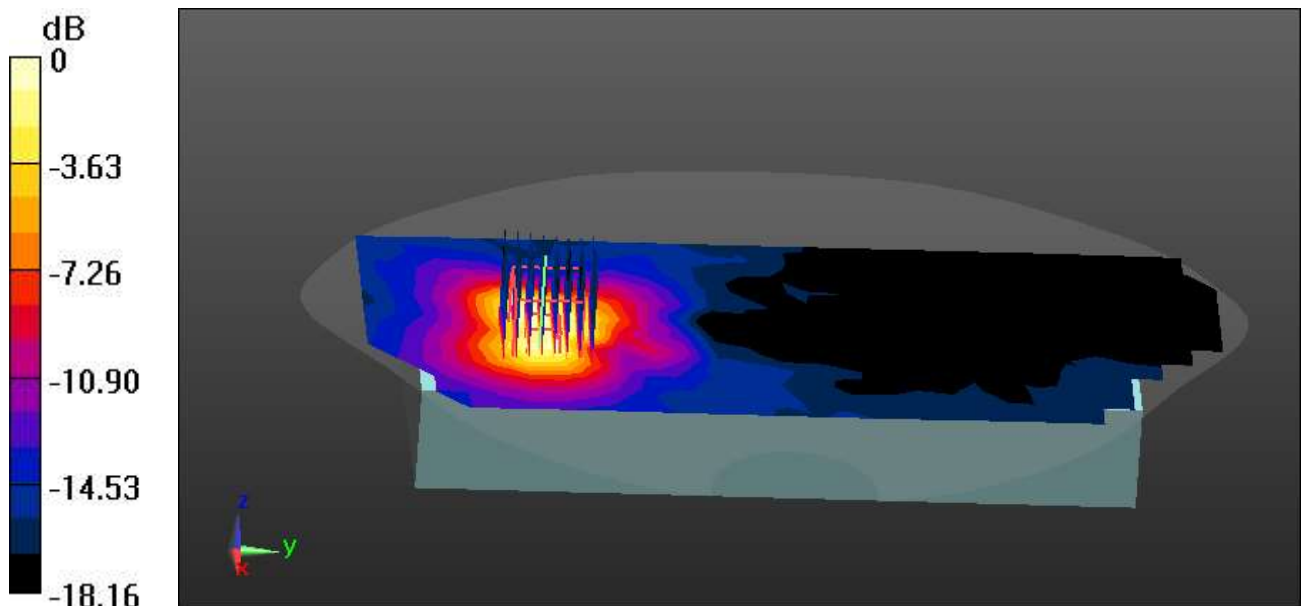
Area Scan (12x28x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Zoom Scan (8x8x8)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$, Graded Ratio: 1.4

Power Drift = 0.12 dB

Peak SAR (extrapolated) = 2.07 W/kg

SAR(1 g) = 0.586 W/kg; SAR(10 g) = 0.251 W/kg



0 dB = 1.30 W/kg

Dt&C Co., Ltd.

DUT: Freedom I; Type: Scanner

Communication System: UID 0, 5G W-LAN (0); Frequency: 5795 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5795$ MHz; $\sigma = 5.379$ S/m; $\epsilon_r = 34.251$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(4.92, 4.78, 5.37) @ 5795 MHz; Calibrated: 4/24/2023 Electronics: DAE4 Sn1335

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Phantom: Twin-SAM V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: 1220

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Test Date: 2023-08-24; Ambient Temp: 21.7; Tissue Temp: 21.8

Touch from Body, Front, WLAN(802.11ac VHT40) Ch. 159, Ant Internal, Ant.1

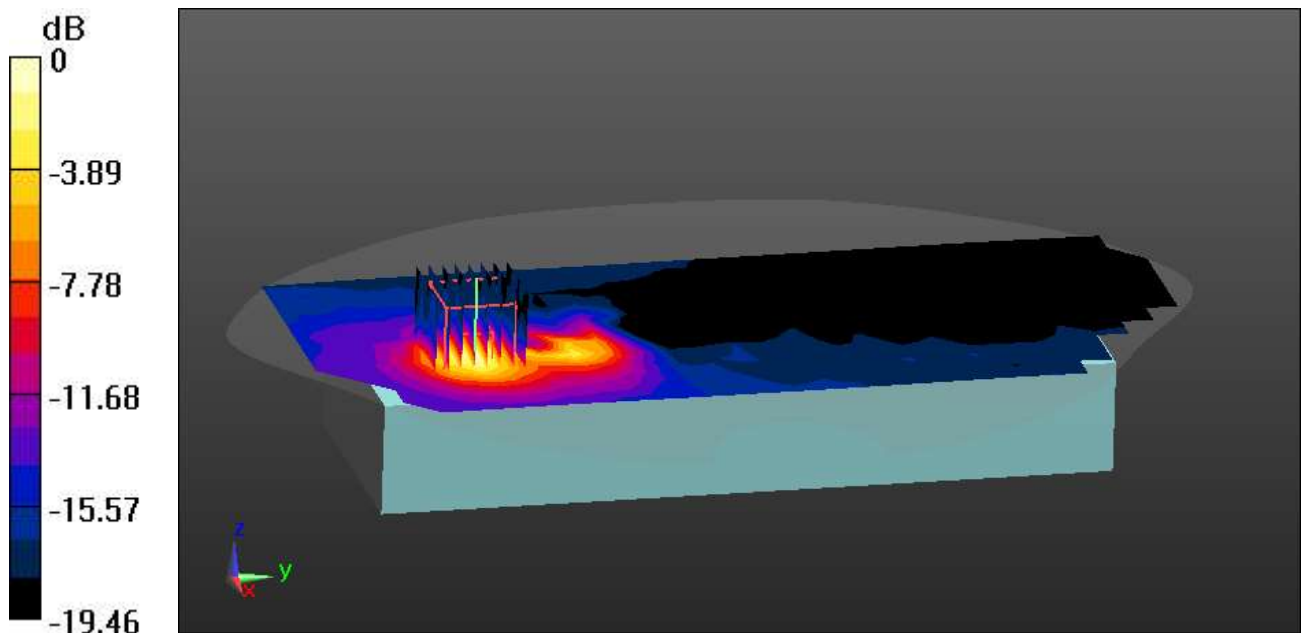
Area Scan (12x28x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

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

Power Drift = 0.10 dB

Peak SAR (extrapolated) = 3.99 W/kg

SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.379 W/kg



0 dB = 2.34 W/kg

Dt&C Co., Ltd.

DUT: Freedom I; Type: Scanner

Communication System: UID 0, 5G W-LAN (0); Frequency: 5795 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5795 \text{ MHz}$; $\sigma = 5.379 \text{ S/m}$; $\epsilon_r = 34.251$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(4.92, 4.78, 5.37) @ 5795 MHz; Calibrated: 4/24/2023 Electronics: DAE4 Sn1335

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Phantom: Twin-SAM V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: 1220

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Test Date: 2023-08-24; Ambient Temp: 21.7; Tissue Temp: 21.8

Touch from Body, Front, WLAN(802.11ac VHT40) Ch. 159, Ant Internal, Ant.2

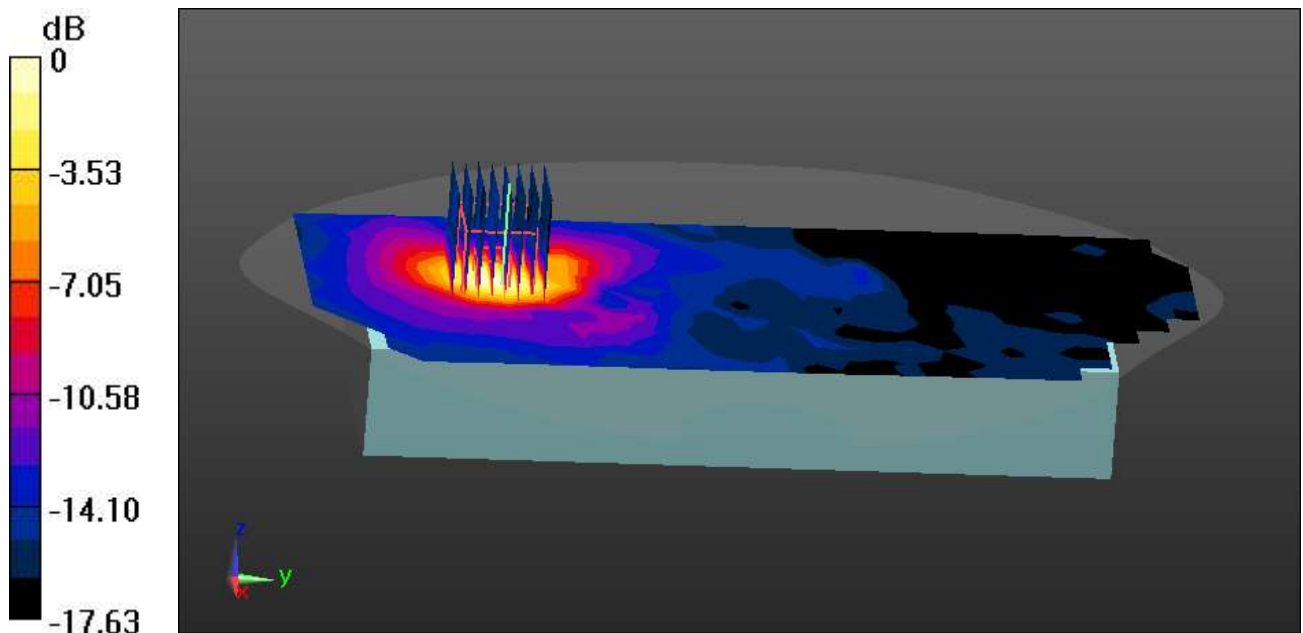
Area Scan (12x28x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Zoom Scan (8x8x8)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$, Graded Ratio: 1.4

Power Drift = -0.09 dB

Peak SAR (extrapolated) = 2.42 W/kg

SAR(1 g) = 0.624 W/kg; SAR(10 g) = 0.249 W/kg



Dt&C Co., Ltd.

DUT: Freedom I; Type: Scanner

Communication System: UID 0, 5G W-LAN (0); Frequency: 5795 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5795$ MHz; $\sigma = 5.379$ S/m; $\epsilon_r = 34.251$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(4.92, 4.78, 5.37) @ 5795 MHz; Calibrated: 4/24/2023 Electronics: DAE4 Sn1335

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Phantom: Twin-SAM V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: 1220

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Test Date: 2023-08-24; Ambient Temp: 21.7; Tissue Temp: 21.8

Touch from Body, Front, WLAN(802.11ac VHT40) Ch. 159, Ant Internal, MIMO

Area Scan (12x28x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Zoom Scan (8x8x8)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm, Graded Ratio: 1.4

Power Drift = 0.02 dB

Peak SAR (extrapolated) = 4.85 W/kg

SAR(1 g) = 1.09 W/kg; SAR(10 g) = 0.472 W/kg

