

Test Laboratory: Huatongwei International Inspection Co., Ltd., SAR Lab

Date: 4/26/2020

ANT1 WCDMA Band II

Communication System: UID 0, Generic UMTS (0); Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1852.4$ MHz; $\sigma = 1.455$ S/m; $\epsilon_r = 40.544$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.8°C; Liquid Temperature: 22.6°C;

DASY Configuration:

- Probe: EX3DV4 - SN7494; ConvF(8.6, 8.6, 8.6) @ 1852.4 MHz; Calibrated: 4/1/2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1549; Calibrated: 4/4/2020
- Phantom: Twin-SAM V8.0 ; Type: QD 000 P41 AA; Serial: 1974
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Rear/CH 9262/Area Scan (61x111x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 1.49 W/kg

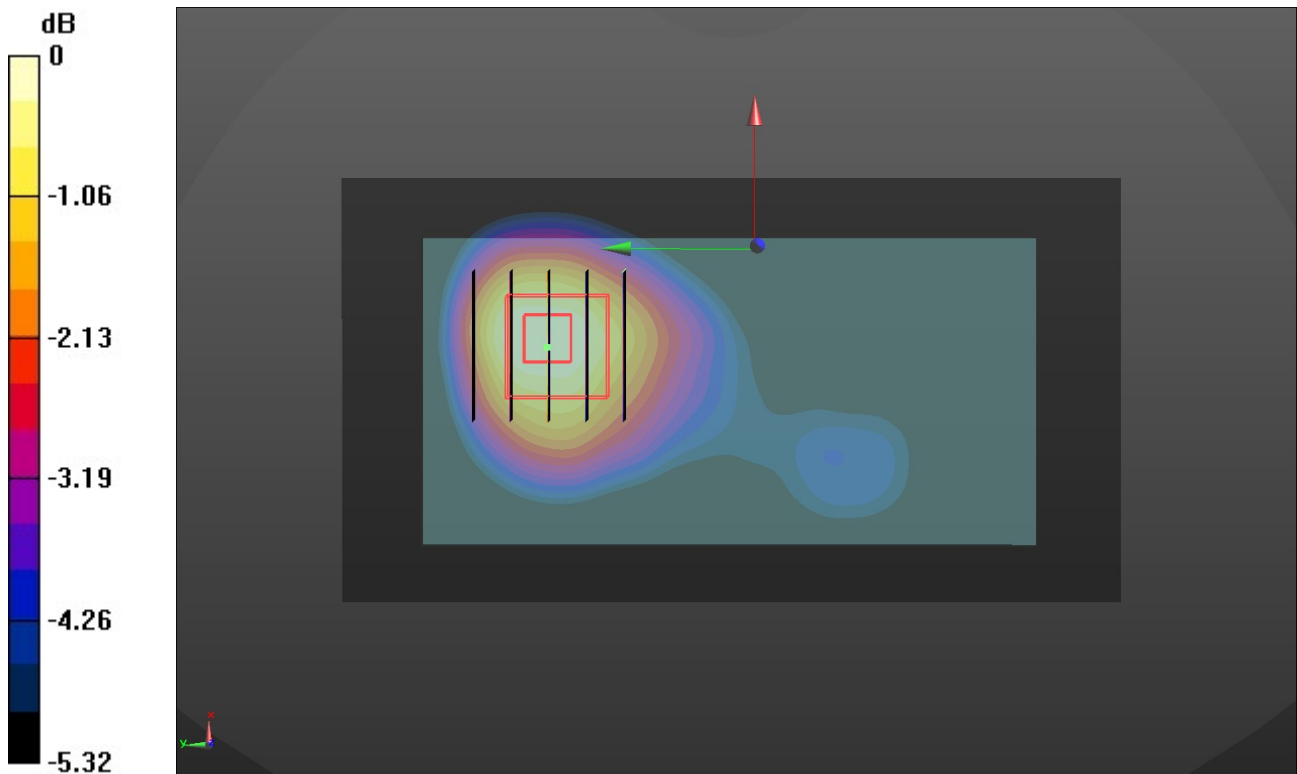
Rear/CH 9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 19.24 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.73 W/kg

SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.622 W/kg

Maximum value of SAR (measured) = 1.45 W/kg



0 dB = 1.45 W/kg = 1.61 dBW/kg

ANT1 WCDMA Band V

Communication System: UID 0, Generic UMTS (0); Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 846.6$ MHz; $\sigma = 0.951$ S/m; $\epsilon_r = 42.673$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.7°C; Liquid Temperature: 22.5°C;

DASY Configuration:

- Probe: EX3DV4 - SN7494; ConvF(10.46, 10.46, 10.46) @ 846.6 MHz; Calibrated: 4/1/2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1549; Calibrated: 4/4/2020
- Phantom: Twin-SAM V8.0 ; Type: QD 000 P41 AA; Serial: 1974
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Rear/CH 4233/Area Scan (61x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.995 W/kg

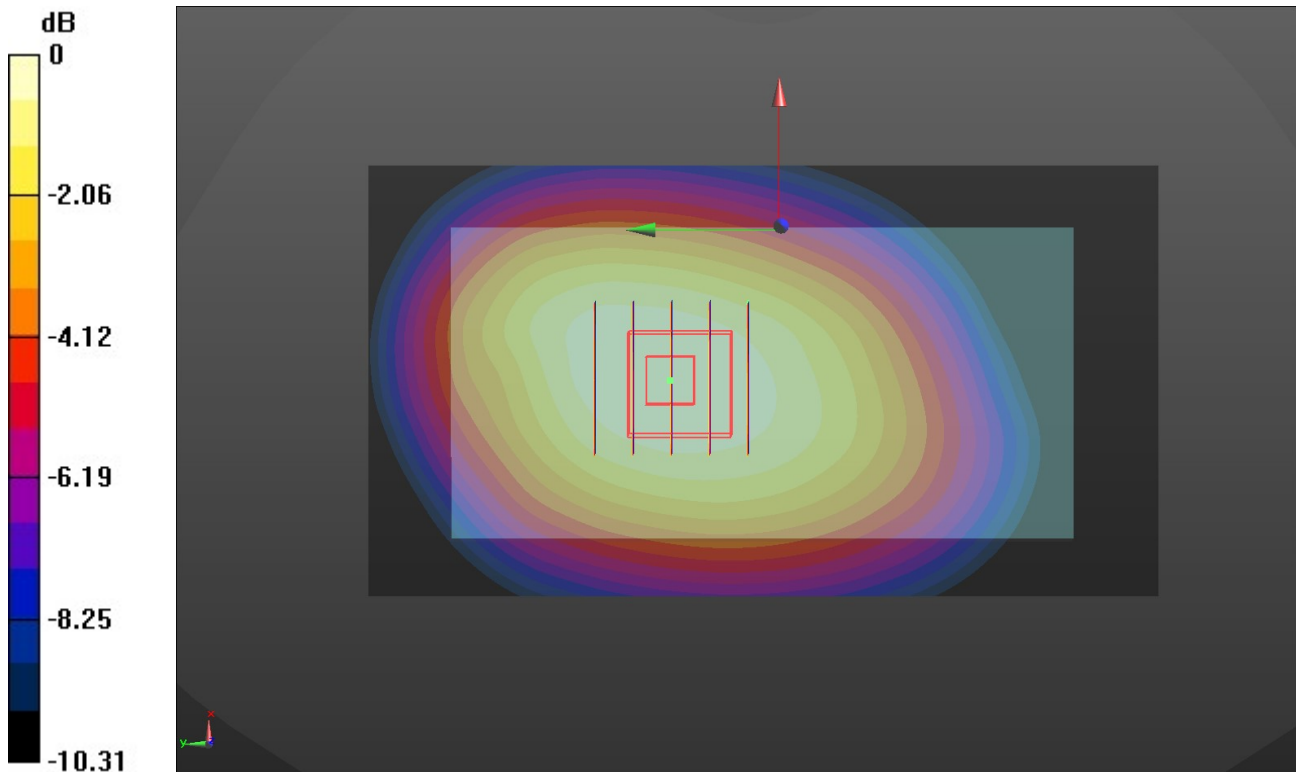
Rear/CH 4233/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 31.30 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.12 W/kg

SAR(1 g) = 0.785 W/kg; SAR(10 g) = 0.562 W/kg

Maximum value of SAR (measured) = 0.996 W/kg



0 dB = 0.996 W/kg = -0.02 dBW/kg

Test Laboratory: Huatongwei International Inspection Co., Ltd., SAR Lab

Date: 5/6/2020

ANT2 WCDMA Band II

Communication System: UID 0, Generic UMTS (0); Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1907.6$ MHz; $\sigma = 1.461$ S/m; $\epsilon_r = 40.468$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3°C; Liquid Temperature: 22.1°C;

DASY Configuration:

- Probe: EX3DV4 - SN7494; ConvF(8.6, 8.6, 8.6) @ 1907.6 MHz; Calibrated: 4/1/2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1549; Calibrated: 4/4/2020
- Phantom: Twin-SAM V8.0 ; Type: QD 000 P41 AA; Serial: 1974
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Rear/CH 9538/Area Scan (61x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.637 W/kg

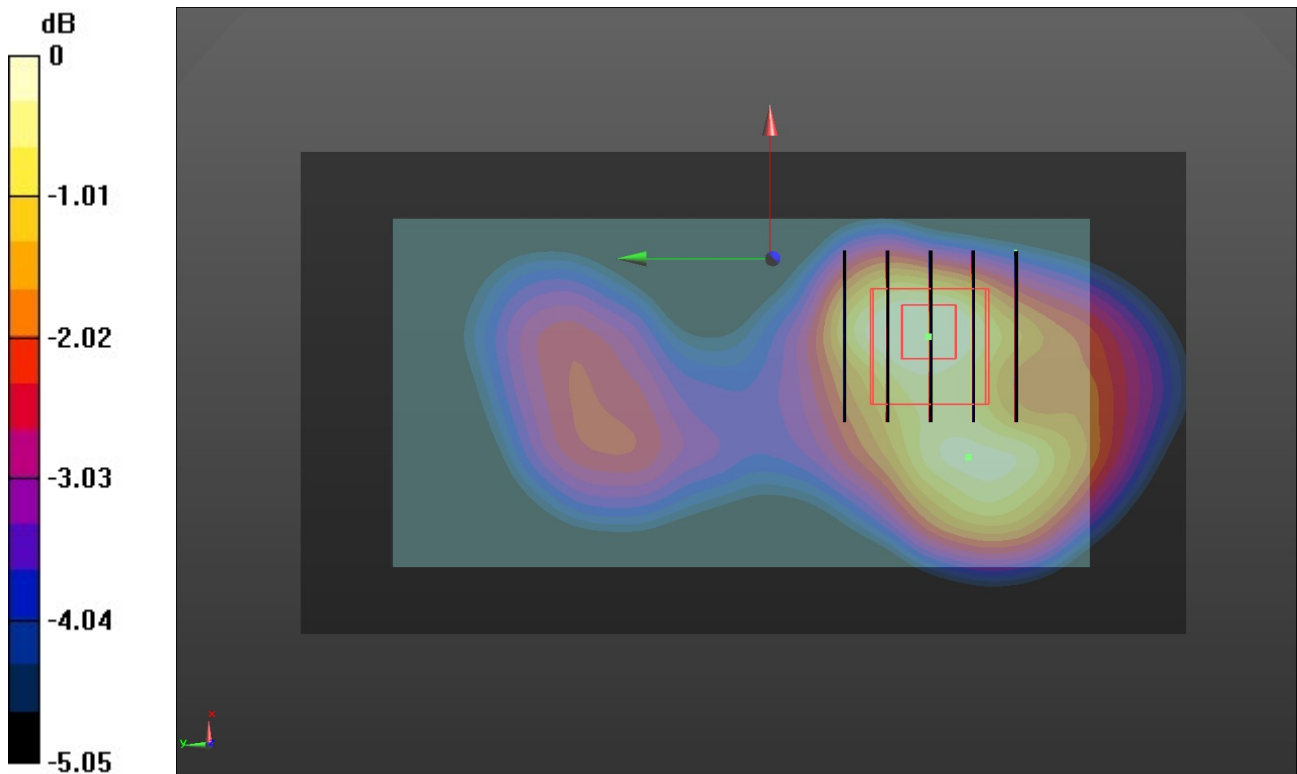
Rear/CH 9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.36 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.699 W/kg

SAR(1 g) = 0.431 W/kg; SAR(10 g) = 0.267 W/kg

Maximum value of SAR (measured) = 0.593 W/kg



0 dB = 0.593 W/kg = -2.27 dBW/kg

ANT2 WCDMA Band V

Communication System: UID 0, Generic UMTS (0); Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.947$ S/m; $\epsilon_r = 42.694$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.2°C; Liquid Temperature: 22.0°C;

DASY Configuration:

- Probe: EX3DV4 - SN7494; ConvF(10.46, 10.46, 10.46) @ 836.6 MHz; Calibrated: 4/1/2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1549; Calibrated: 4/4/2020
- Phantom: Twin-SAM V8.0 ; Type: QD 000 P41 AA; Serial: 1974
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Rear/CH 4183/Area Scan (61x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.00 W/kg

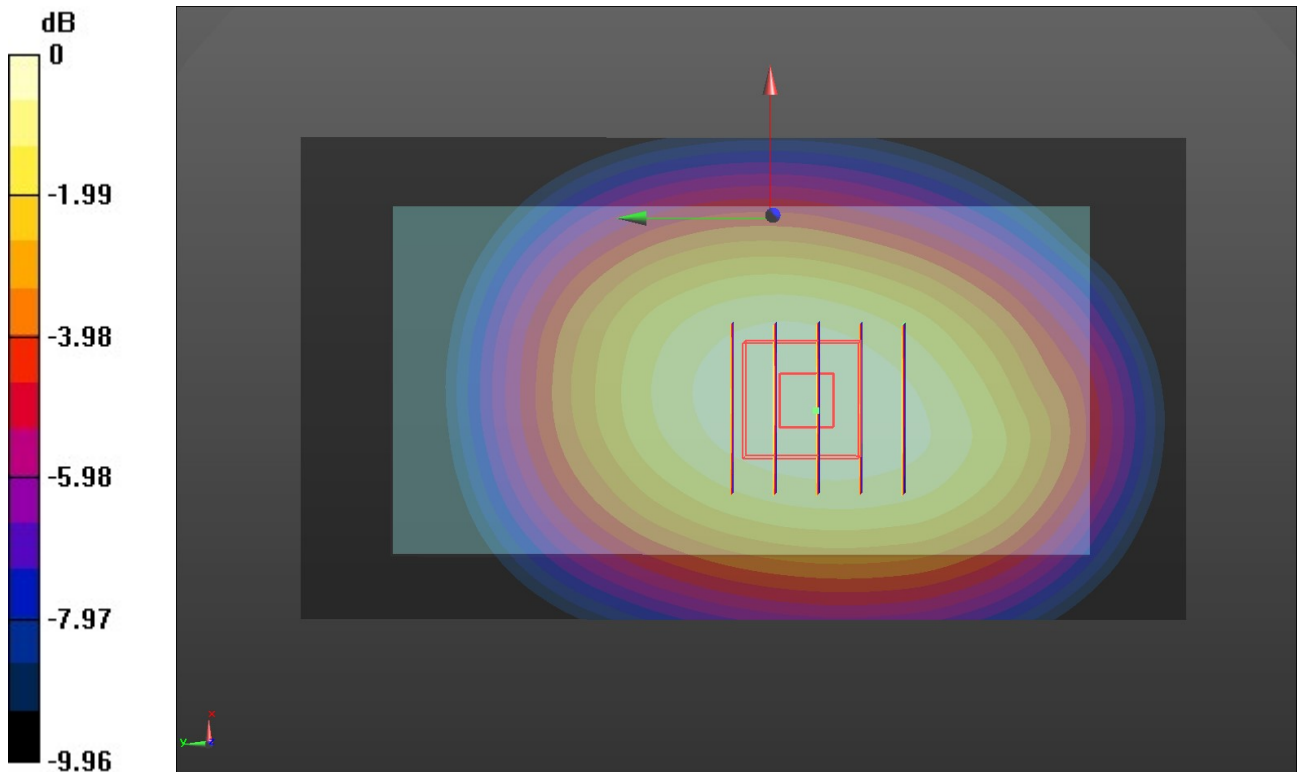
Rear/CH 4183/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 32.62 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.788 W/kg; SAR(10 g) = 0.566 W/kg

Maximum value of SAR (measured) = 1.00 W/kg



0 dB = 1.00 W/kg = 0.00 dBW/kg

ANT1 LTE Band 2

Communication System: UID 0, Generic LTE-FDD (0); Frequency: 1860 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1860$ MHz; $\sigma = 1.459$ S/m; $\epsilon_r = 40.529$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.6°C; Liquid Temperature: 22.4°C;

DASY Configuration:

- Probe: EX3DV4 - SN7494; ConvF(8.6, 8.6, 8.6) @ 1860 MHz; Calibrated: 4/1/2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1549; Calibrated: 4/4/2020
- Phantom: Twin-SAM V8.0 ; Type: QD 000 P41 AA; Serial: 1974
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Front/CH 18700/Area Scan (61x111x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 1.22 W/kg

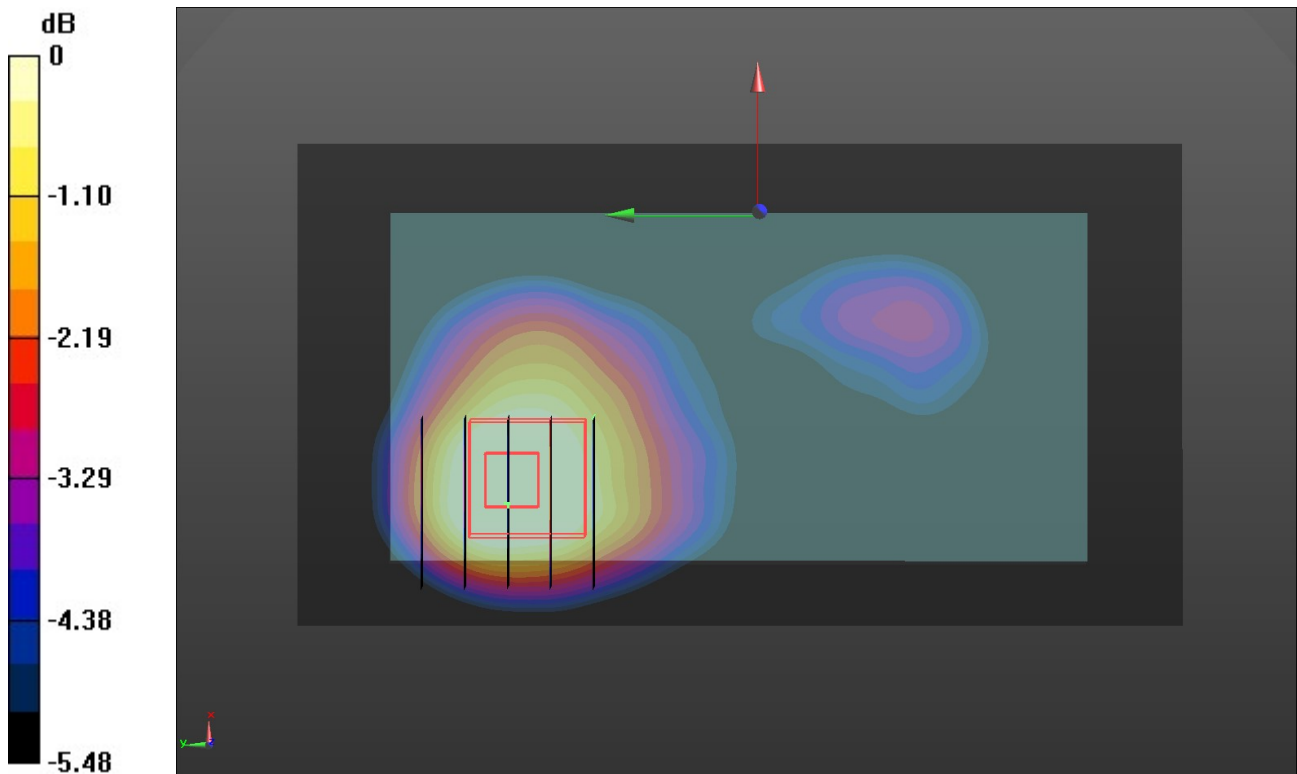
Front/CH 18700/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 14.85 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 1.17 W/kg

SAR(1 g) = 0.675 W/kg; SAR(10 g) = 0.396 W/kg

Maximum value of SAR (measured) = 0.979 W/kg



0 dB = 0.979 W/kg = -0.09 dBW/kg

ANT1 LTE Band 4

Communication System: UID 0, Generic LTE-FDD (0); Frequency: 1732.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.385$ S/m; $\epsilon_r = 40.76$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.5°C; Liquid Temperature: 22.3°C;

DASY Configuration:

- Probe: EX3DV4 - SN7494; ConvF(8.92, 8.92, 8.92) @ 1732.5 MHz; Calibrated: 4/1/2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1549; Calibrated: 4/4/2020
- Phantom: Twin-SAM V8.0 ; Type: QD 000 P41 AA; Serial: 1974
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Rear/CH 20175/Area Scan (61x111x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.877 W/kg

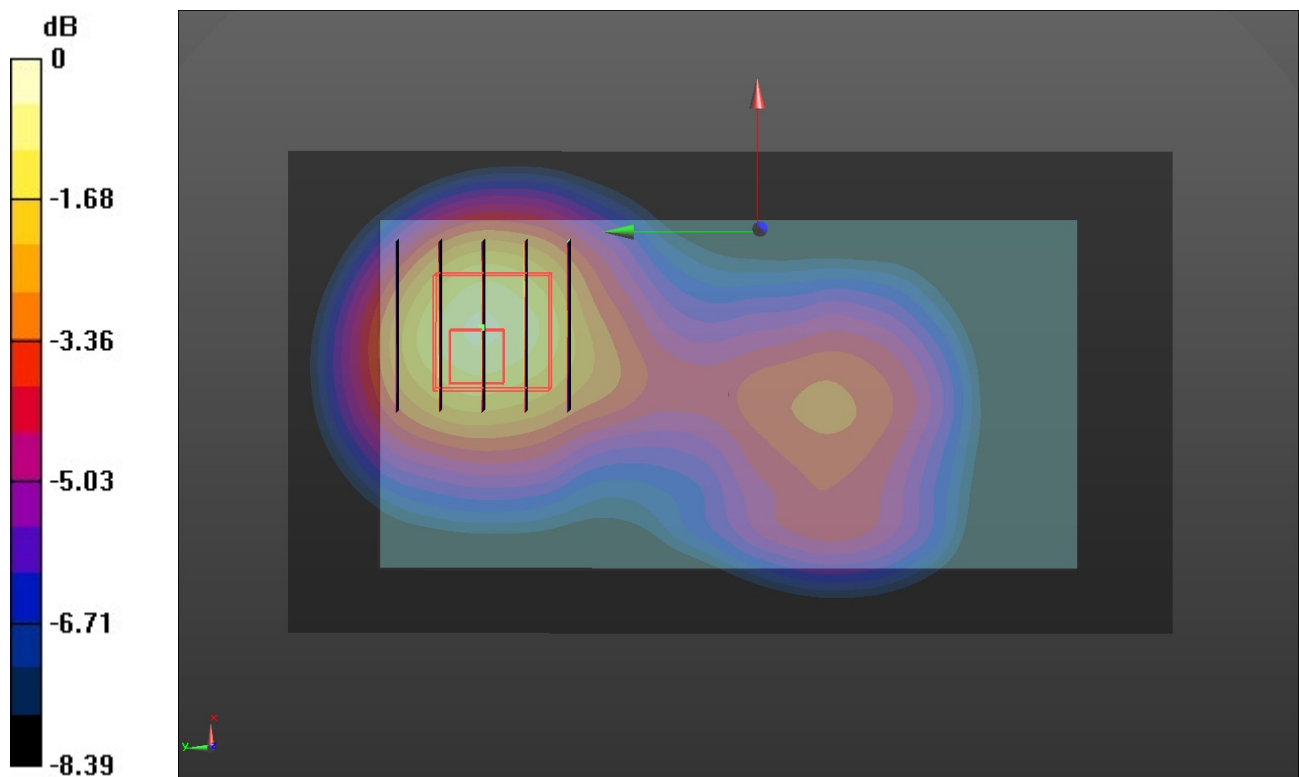
Rear/CH 20175/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 15.06 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.16 W/kg

SAR(1 g) = 0.650 W/kg; SAR(10 g) = 0.391 W/kg

Maximum value of SAR (measured) = 0.973 W/kg



0 dB = 0.973 W/kg = -0.12 dBW/kg

ANT1 LTE Band 5

Communication System: UID 0, Generic LTE-FDD (0); Frequency: 829 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 829$ MHz; $\sigma = 0.944$ S/m; $\epsilon_r = 42.709$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.4°C; Liquid Temperature: 22.2°C;

DASY Configuration:

- Probe: EX3DV4 - SN7494; ConvF(10.46, 10.46, 10.46) @ 829 MHz; Calibrated: 4/1/2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1549; Calibrated: 4/4/2020
- Phantom: Twin-SAM V8.0 ; Type: QD 000 P41 AA; Serial: 1974
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Rear/CH 20450/Area Scan (61x111x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.371 W/kg

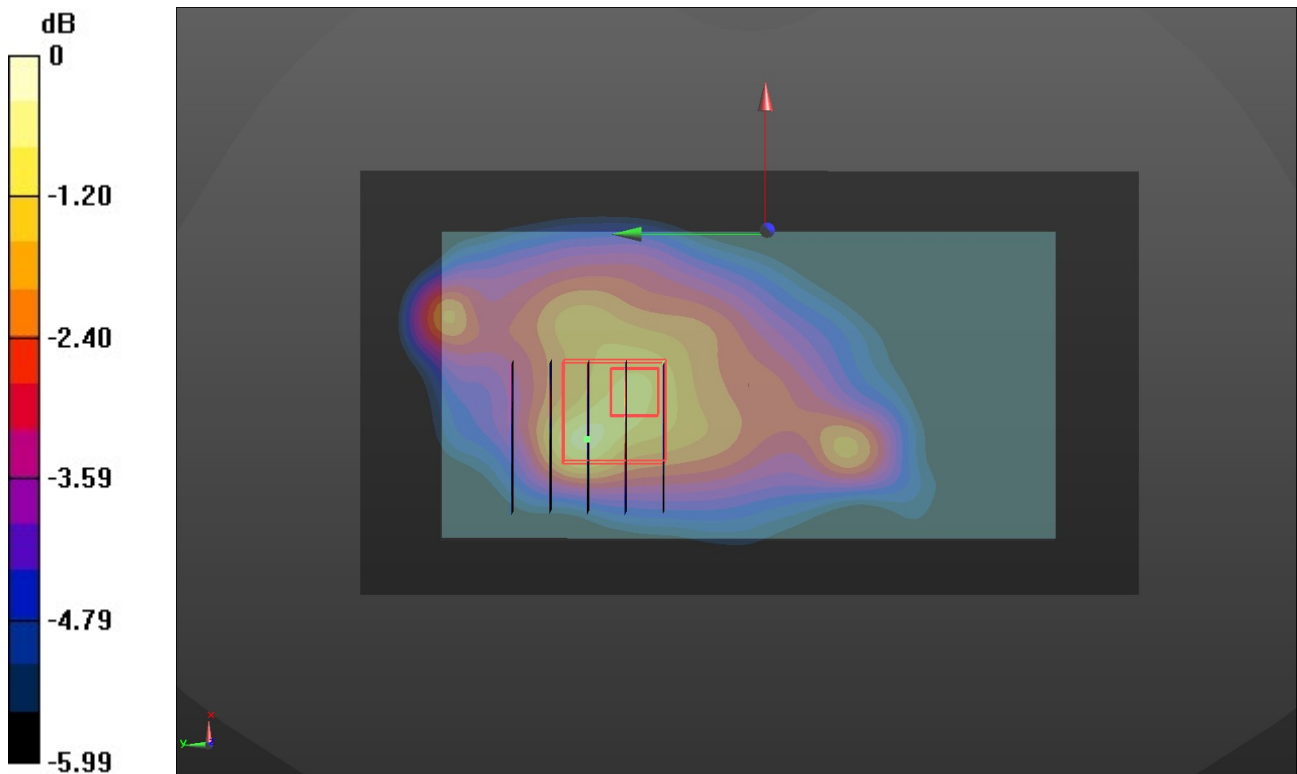
Rear/CH 20450/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 16.90 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.509 W/kg

SAR(1 g) = 0.272 W/kg; SAR(10 g) = 0.171 W/kg

Maximum value of SAR (measured) = 0.427 W/kg



0 dB = 0.427 W/kg = -3.70 dBW/kg

ANT1 LTE Band 7

Communication System: UID 0, Generic LTE-FDD (0); Frequency: 2510 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2510$ MHz; $\sigma = 1.916$ S/m; $\epsilon_r = 39.554$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3°C; Liquid Temperature: 22.1°C;

DASY Configuration:

- Probe: EX3DV4 - SN7494; ConvF(7.91, 7.91, 7.91) @ 2510 MHz; Calibrated: 4/1/2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1549; Calibrated: 4/4/2020
- Phantom: Twin-SAM V8.0 ; Type: QD 000 P41 AA; Serial: 1974
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Top/CH 20850/Area Scan (41x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 2.34 W/kg

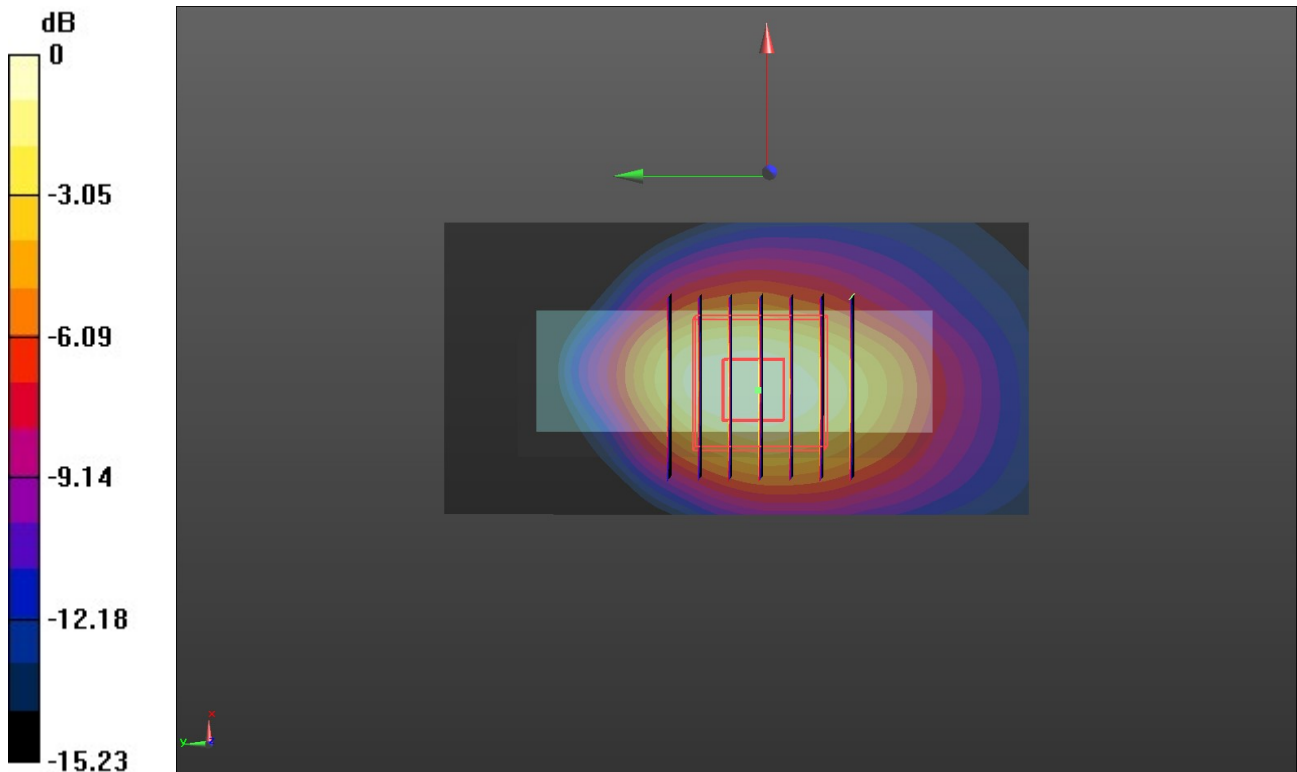
Top/CH 20850/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 34.28 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 2.76 W/kg

SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.663 W/kg

Maximum value of SAR (measured) = 2.23 W/kg



0 dB = 2.23 W/kg = 3.48 dBW/kg

ANT1 LTE Band 17

Communication System: UID 0, Generic LTE-FDD (0); Frequency: 711 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 711$ MHz; $\sigma = 0.901$ S/m; $\epsilon_r = 43.098$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.2°C; Liquid Temperature: 22.0°C;

DASY Configuration:

- Probe: EX3DV4 - SN7494; ConvF(10.76, 10.76, 10.76) @ 711 MHz; Calibrated: 4/1/2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1549; Calibrated: 4/4/2020
- Phantom: Twin-SAM V8.0 ; Type: QD 000 P41 AA; Serial: 1974
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Rear/CH 23800/Area Scan (61x111x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.275 W/kg

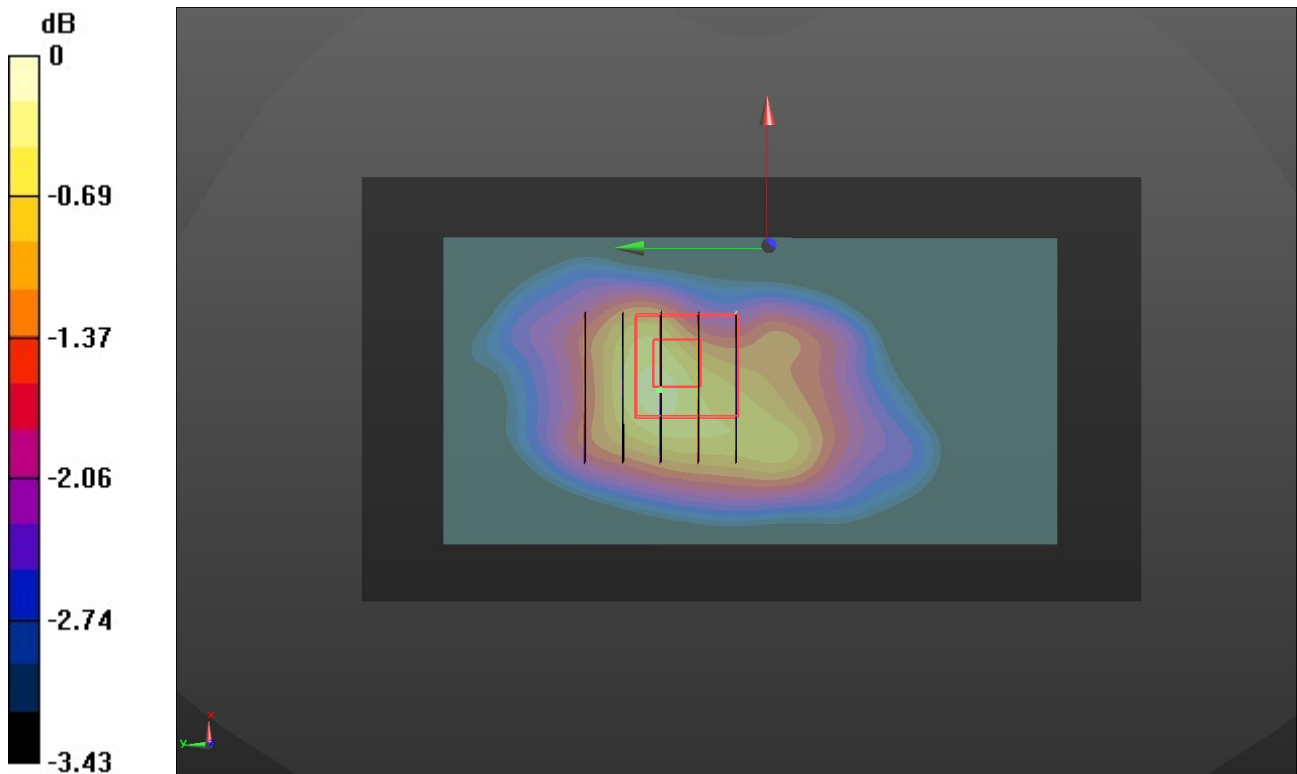
Rear/CH 23800/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 10.03 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.352 W/kg

SAR(1 g) = 0.224 W/kg; SAR(10 g) = 0.160 W/kg

Maximum value of SAR (measured) = 0.296 W/kg



0 dB = 0.296 W/kg = -5.29 dBW/kg

Test Laboratory: Huatongwei International Inspection Co., Ltd., SAR Lab

Date: 4/27/2020

ANT1 LTE Band 41

Communication System: UID 0, Generic LTE-TDD (0); Frequency: 2565 MHz; Duty Cycle: 1:1.57979

Medium parameters used (interpolated): $f = 2565$ MHz; $\sigma = 1.961$ S/m; $\epsilon_r = 39.443$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.1°C; Liquid Temperature: 21.9°C;

DASY Configuration:

- Probe: EX3DV4 - SN7494; ConvF(7.72, 7.72, 7.72) @ 2565 MHz; Calibrated: 4/1/2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1549; Calibrated: 4/4/2020
- Phantom: Twin-SAM V8.0 ; Type: QD 000 P41 AA; Serial: 1974
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Top/CH 40340/Area Scan (41x81x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.995 W/kg

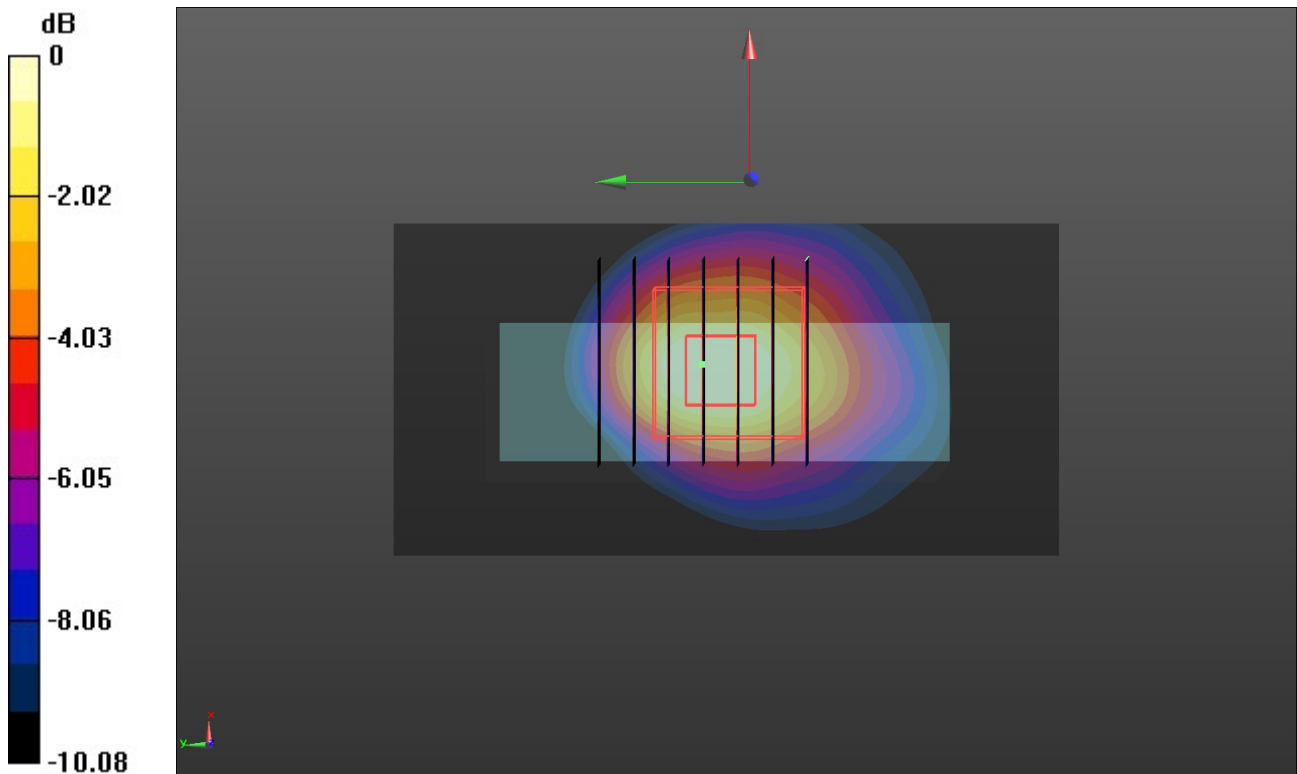
Top/CH 40340/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 22.23 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.18 W/kg

SAR(1 g) = 0.565 W/kg; SAR(10 g) = 0.263 W/kg

Maximum value of SAR (measured) = 0.927 W/kg



0 dB = 0.927 W/kg = -0.33 dBW/kg

WIFI 2.4G

Communication System: UID 0, Generic WIFI (0); Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.86$ S/m; $\epsilon_r = 39.662$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.2°C; Liquid Temperature: 22.0°C;

DASY Configuration:

- Probe: EX3DV4 - SN7494; ConvF(7.91, 7.91, 7.91) @ 2437 MHz; Calibrated: 4/1/2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1549; Calibrated: 4/4/2020
- Phantom: Twin-SAM V8.0 ; Type: QD 000 P41 AA; Serial: 1974
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Front/CH 6/Area Scan (81x131x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.275 W/kg

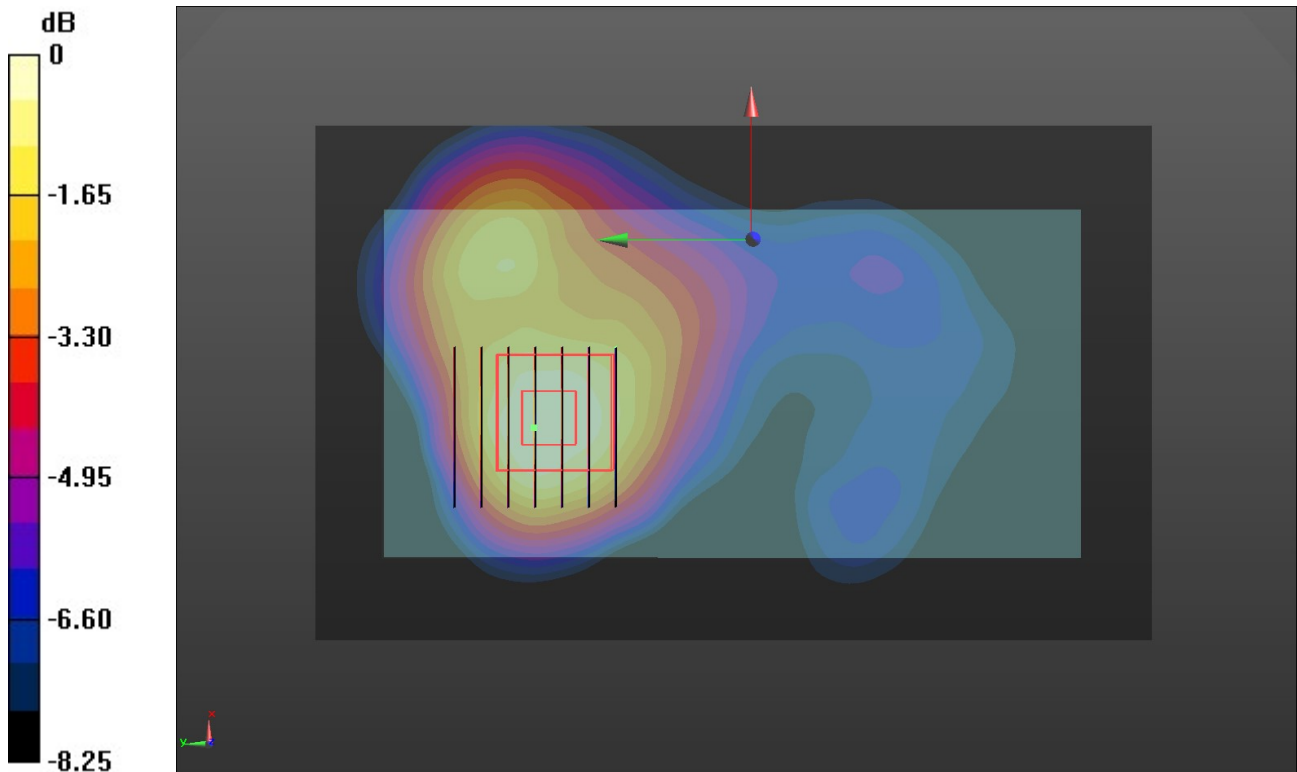
Front/CH 6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 6.071 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.314 W/kg

SAR(1 g) = 0.177 W/kg; SAR(10 g) = 0.100 W/kg

Maximum value of SAR (measured) = 0.257 W/kg



0 dB = 0.257 W/kg = -5.90 dBW/kg