

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab

Date: 2024/12/31

#01_WLAN2.4GHz_802.11b 1Mbps_Bottom Side_0mm_Ch1

Communication System: UID 10415 - AAA, 802.11b; Frequency: 2412 MHz

Medium: HSL_2450_241231 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.797$ S/m; $\epsilon_r = 39.747$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C ; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3642; ConvF(7.51, 6.73, 8.77) @ 2412 MHz; Calibrated: 2024/4/25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1512; Calibrated: 2024/3/14
- Phantom: ELI V4.0_Right; Type: QD OVA 001 BB; Serial: TP:1025
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7501)

Area Scan (81x261x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.0714 W/kg

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

Reference Value = 5.941 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.0980 W/kg

SAR(1 g) = 0.041 W/kg; SAR(10 g) = 0.017 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid (> 15 mm)

Ratio of SAR at M2 to SAR at M1 = 46.9%

Maximum value of SAR (measured) = 0.0645 W/kg

Zoom Scan (7x7x7)/Cube 1: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 5.941 V/m; Power Drift = 0.15 dB

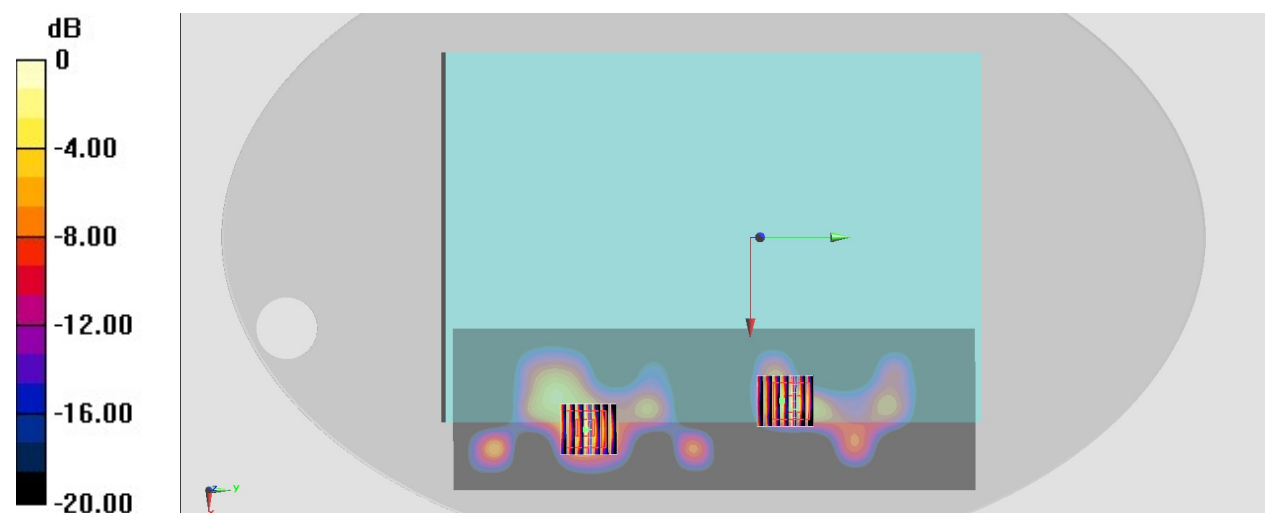
Peak SAR (extrapolated) = 0.0970 W/kg

SAR(1 g) = 0.047 W/kg; SAR(10 g) = 0.020 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid (> 15 mm)

Ratio of SAR at M2 to SAR at M1 = 51%

Maximum value of SAR (measured) = 0.0788 W/kg



0 dB = 0.0788 W/kg = -11.03 dBW/kg

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#02_WLAN5GHz_802.11n-HT20 MCS0_Bottom Side_0mm_Ch60

Communication System: UID 10591 - AAD, 802.11n; Frequency: 5300 MHz

Medium: HSL_5G_241231 Medium parameters used: $f = 5300$ MHz; $\sigma = 4.874$ S/m; $\epsilon_r = 36.724$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C ; Liquid Temperature : 22.4 °C

DASY5 Configuration:

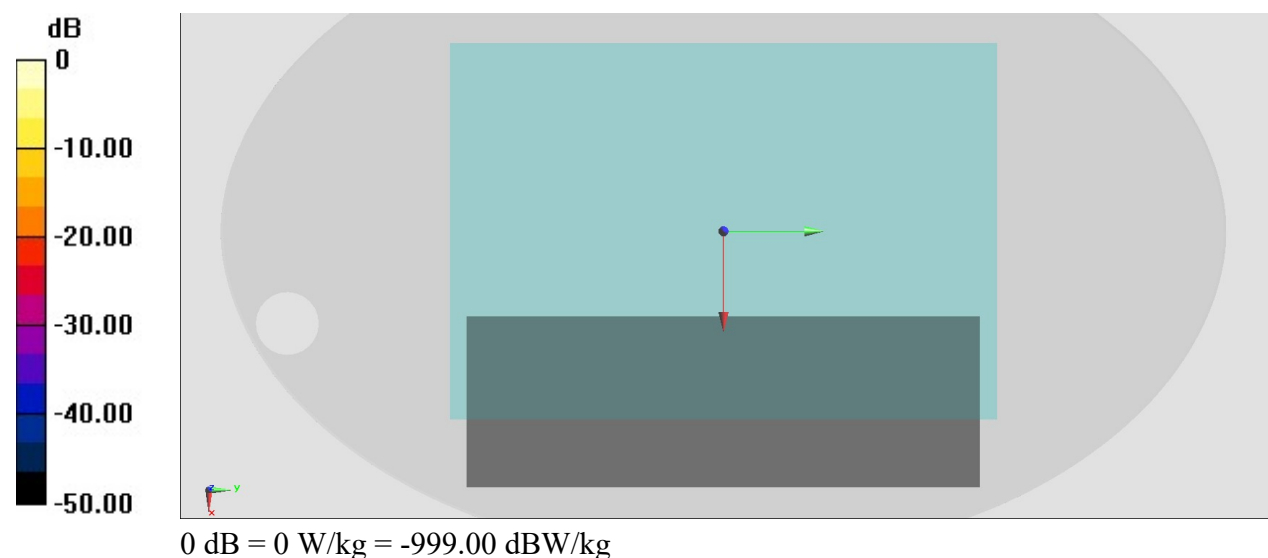
- Probe: EX3DV4 - SN3642; ConvF(4.46, 4.11, 5.36) @ 5300 MHz; Calibrated: 2024/4/25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1512; Calibrated: 2024/3/14
- Phantom: ELI V4.0_Right; Type: QD OVA 001 BB; Serial: TP:1025
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7501)

Area Scan (101x301x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Reference Value = 0; Power Drift = 0

Fast SAR: SAR(1 g) = 0.001 W/kg; SAR(10 g) = 0.001 W/kg

Maximum value of SAR (interpolated) = 0 W/kg



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#03_WLAN5GHz_802.11n-HT20 MCS0_Bottom Side_0mm_Ch116

Communication System: UID 10591 - AAD, 802.11n; Frequency: 5580 MHz

Medium: HSL_5G_241231 Medium parameters used: $f = 5580$ MHz; $\sigma = 5.167$ S/m; $\epsilon_r = 36.373$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C ; Liquid Temperature : 22.4 °C

DASY5 Configuration:

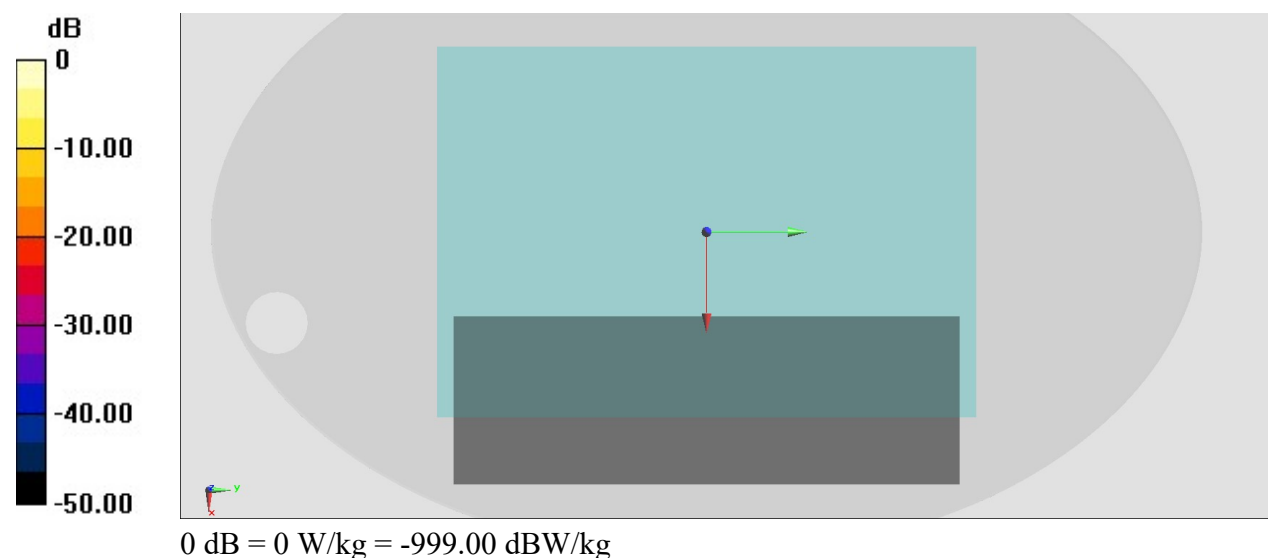
- Probe: EX3DV4 - SN3642; ConvF(3.96, 3.67, 4.73) @ 5580 MHz; Calibrated: 2024/4/25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1512; Calibrated: 2024/3/14
- Phantom: ELI V4.0_Right; Type: QD OVA 001 BB; Serial: TP:1025
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7501)

Area Scan (101x301x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Reference Value = 0; Power Drift = 0

Fast SAR: SAR(1 g) = 0.001 W/kg; SAR(10 g) = 0.001 W/kg

Maximum value of SAR (interpolated) = 0 W/kg



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#04_WLAN5GHz_802.11n-HT20 MCS0_Bottom Side_0mm_Ch165

Communication System: UID 10591 - AAD, 802.11n; Frequency: 5825 MHz

Medium: HSL_5G_241231 Medium parameters used: $f = 5825$ MHz; $\sigma = 5.418$ S/m; $\epsilon_r = 36.005$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C ; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3642; ConvF(4.03, 3.72, 4.8) @ 5825 MHz; Calibrated: 2024/4/25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1512; Calibrated: 2024/3/14
- Phantom: ELI V4.0_Right; Type: QD OVA 001 BB; Serial: TP:1025
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7501)

Area Scan (101x301x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.0731 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 2.842 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.249 W/kg

SAR(1 g) = 0.019 W/kg; SAR(10 g) = 0.00509 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid (> 12 mm)

Ratio of SAR at M2 to SAR at M1 = 57.8%

Maximum value of SAR (measured) = 0.0593 W/kg

Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 2.842 V/m; Power Drift = -0.07 dB

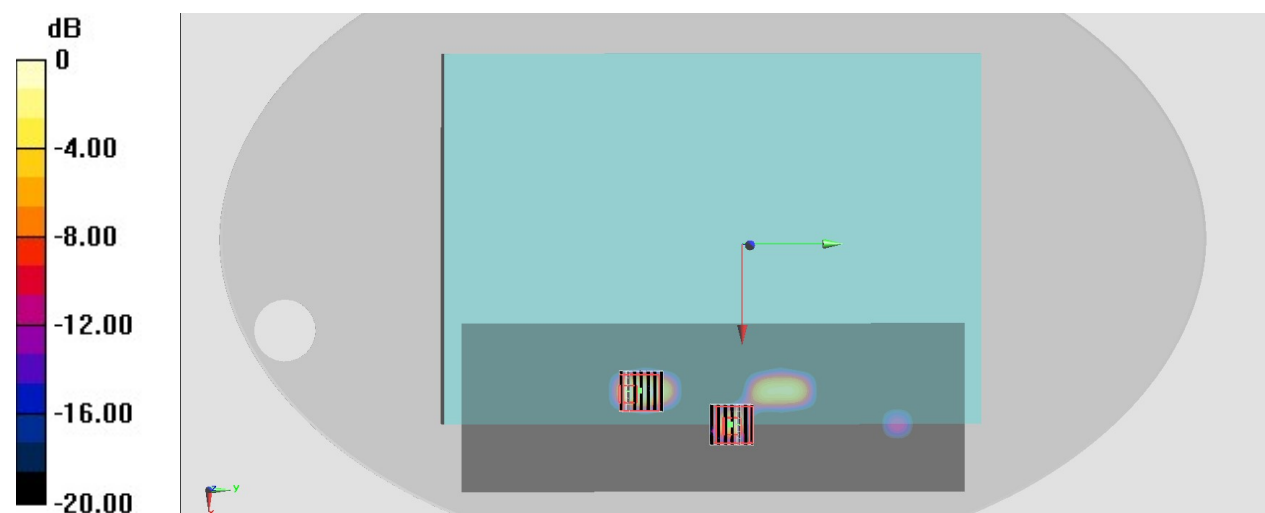
Peak SAR (extrapolated) = 0.367 W/kg

SAR(1 g) = 0.021 W/kg; SAR(10 g) = 0.00365 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid (> 12 mm)

Ratio of SAR at M2 to SAR at M1 = 55.2%

Maximum value of SAR (measured) = 0.0685 W/kg



0 dB = 0.0593 W/kg = -12.27 dBW/kg

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#05_WLAN5GHz_802.11n-HT40 MCS0_Bottom Side_0mm_Ch167

Communication System: UID 10599 - AAD, 802.11n; Frequency: 5835 MHz

Medium: HSL_5G_241231 Medium parameters used: $f = 5835$ MHz; $\sigma = 5.428$ S/m; $\epsilon_r = 35.983$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C ; Liquid Temperature : 22.4 °C

DASY5 Configuration:

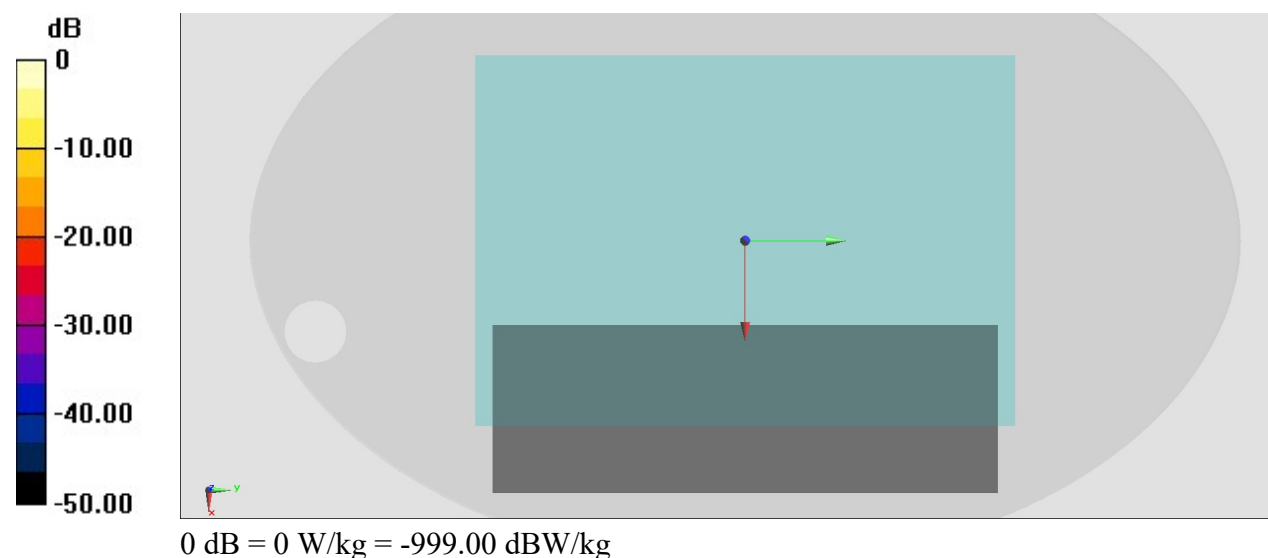
- Probe: EX3DV4 - SN3642; ConvF(4.03, 3.72, 4.8) @ 5835 MHz; Calibrated: 2024/4/25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1512; Calibrated: 2024/3/14
- Phantom: ELI V4.0_Right; Type: QD OVA 001 BB; Serial: TP:1025
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7501)

Area Scan (101x301x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Reference Value = 0; Power Drift = 0

Fast SAR: SAR(1 g) = 0.001 W/kg; SAR(10 g) = 0.001 W/kg

Maximum value of SAR (interpolated) = 0 W/kg



Date: 2024-12-28

#06_WLAN6GHz_802.11ax-HE20 MCS0_Bottom Side_0mm_Ch57

Communication System: 802.11ax; Frequency: 6235.000 MHz

Medium: HSL_6G_241228 Medium parameters used: $f = 6235.000$ MHz; $\sigma = 5.76$ S/m; $\epsilon_r = 34.8$

Ambient Temperature: 23.7°C; Liquid Temperature: 22.7°C

DASY8 Configuration:

- Probe: EX3DV4 - SN7822; ConvF(5.09, 4.99, 5.29); Calibrated: 2024-09-03
- Sensor-Surface: 1.4 mm
- Electronics: DAE4ip Sn1823; Calibrated: 2024-07-15
- Phantom: ELI V8.0 (20deg probe tilt); Serial: 2211; Section: Flat
- Measurement Software: 16.2.4.2524
- UID: WLAN, 10683-AAC

Area Scan (85.0 mm x 204.0 mm): Measurement Grid: 8.5 mm x 8.5 mm

SAR (1g) = 0.023 W/kg; SAR (10g) = 0.008 W/kg;

Zoom Scan (22.0 mm x 22.0 mm x 22.0 mm): Measurement Grid: 1.1 mm x 1.1 mm x 1.2 mm

Power Drift = -0.01 dB

SAR (1g) = 0.005 W/kg; SAR (8g) = 0.001 W/kg; SAR (10g) = 0.001 W/kg

Smallest distance from peaks to all points 3 dB below = 0.5 mm

Ratio of SAR at M2 to SAR at M1 = 36 %

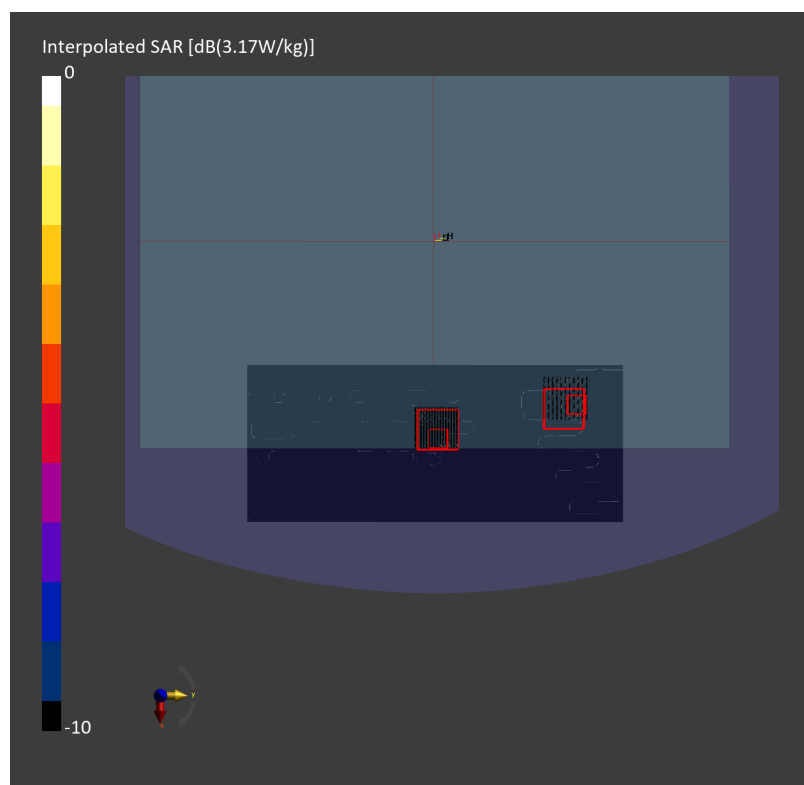
psAPD (1.0cm², sq) = 0.051 [W/m²]; psAPD (4.0cm², sq) = 0.021 [W/m²]**Zoom Scan (22.0 mm x 22.0 mm x 22.0 mm):** Measurement Grid: 1.1 mm x 1.1 mm x 1.2 mm

Power Drift = 0.13 dB

SAR (1g) = 0.027 W/kg; SAR (8g) = 0.009 W/kg; SAR (10g) = 0.008 W/kg

Smallest distance from peaks to all points 3 dB below = 0.5 mm

Ratio of SAR at M2 to SAR at M1 = 45 %

psAPD (1.0cm², sq) = 0.268 [W/m²]; psAPD (4.0cm², sq) = 0.174 [W/m²]

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#07_Bluetooth_1Mbps_Bottom Side_0mm_Ch78

Communication System: Bluetooth ; Frequency: 2480 MHz

Medium: HSL_2450_241231 Medium parameters used : $f = 2480$ MHz; $\sigma = 1.867$ S/m; $\epsilon_r = 39.51$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C ; Liquid Temperature : 22.4 °C

DASY5 Configuration:

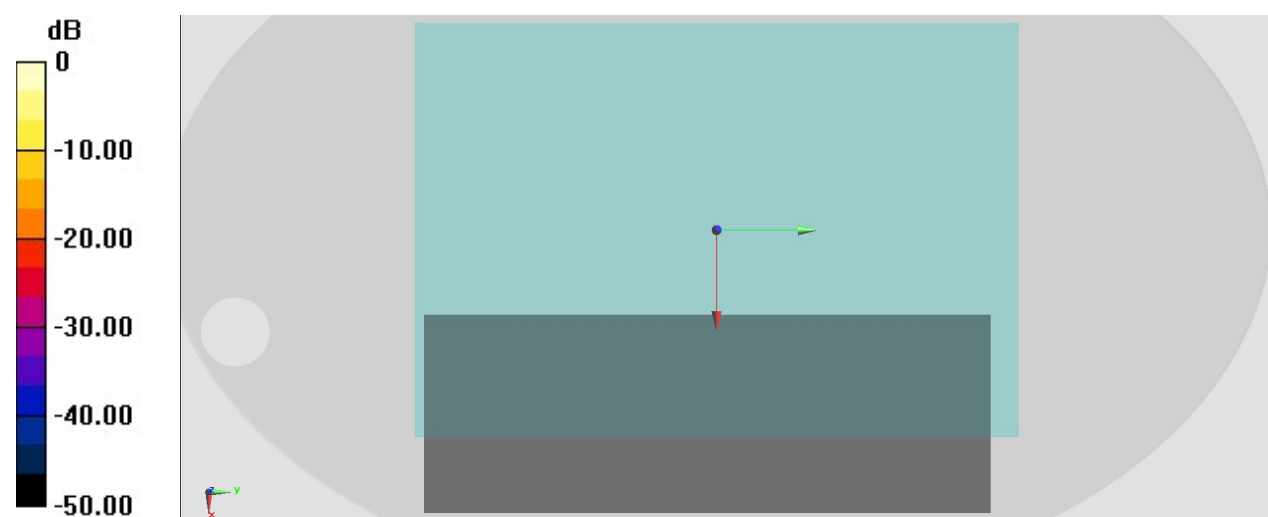
- Probe: EX3DV4 - SN3642; ConvF(7.51, 6.73, 8.77) @ 2480 MHz; Calibrated: 2024/4/25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1512; Calibrated: 2024/3/14
- Phantom: ELI V4.0_Right; Type: QD OVA 001 BB; Serial: TP:1025
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7501)

Area Scan (71x201x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 0 V/m ; Power Drift = 0 dB

Fast SAR: SAR(1 g) = 0.001 W/kg; SAR(10 g) = 0.001 W/kg

Maximum value of SAR (interpolated) = 0 W/kg



0 dB = 0 W/kg = -999.00 dBW/kg