

**01\_WLAN2.4GHz\_802.11b 1Mbps\_Inner Face\_0mm\_Ch6**

Communication System: UID 0, WLAN2.4GHz (0); Frequency: 2437 MHz; Duty Cycle: 1:1.017  
Medium: HSL\_2450 Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.73$  S/m;  $\epsilon_r = 39.333$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.7 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3857; ConvF(7.71, 7.71, 7.71); Calibrated: 2022/12/14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2022/6/15
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

**Area Scan (111x141x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm  
Maximum value of SAR (interpolated) = 0.0472 W/kg

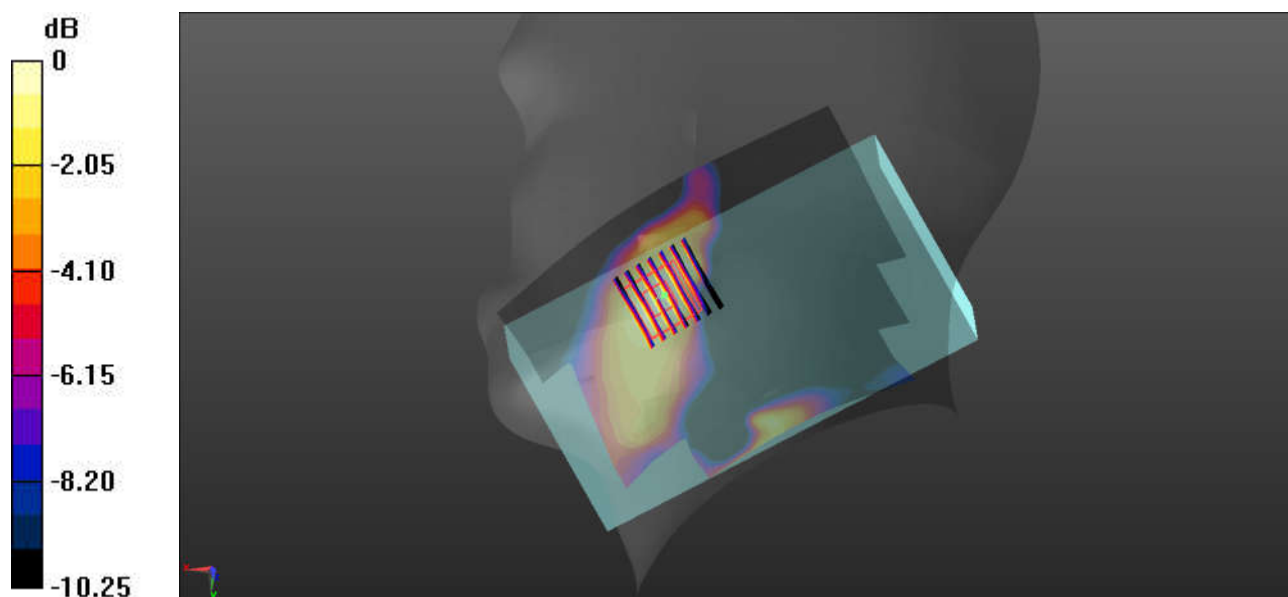
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.483 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.0560 W/kg

**SAR(1 g) = 0.034 W/kg; SAR(10 g) = 0.022 W/kg**

Maximum value of SAR (measured) = 0.0431 W/kg



0 dB = 0.0431 W/kg = -13.66 dBW/kg

**02\_Bluetooth\_1Mbps\_Inner Face\_0mm\_Ch39**

Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz; Duty Cycle: 1:1.297

Medium: HSL\_2450 Medium parameters used:  $f = 2441$  MHz;  $\sigma = 1.734$  S/m;  $\epsilon_r = 39.31$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.7 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3857; ConvF(7.71, 7.71, 7.71); Calibrated: 2022/12/14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2022/6/15
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

**Area Scan (121x141x1):** Interpolated grid:  $dx=1.200$  mm,  $dy=1.200$  mm

Maximum value of SAR (interpolated) = 0.0239 W/kg

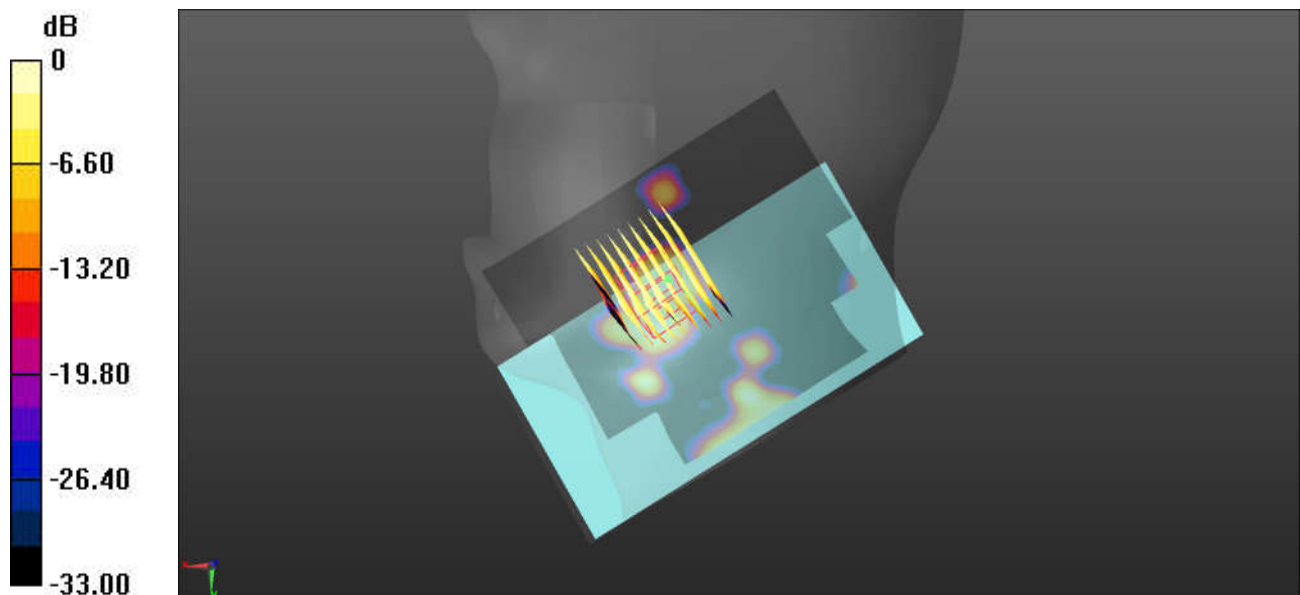
**Zoom Scan (9x9x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 1.176 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.0160 W/kg

**SAR(1 g) = 0.010 W/kg; SAR(10 g) = 0.004 W/kg**

Maximum value of SAR (measured) = 0.0127 W/kg



0 dB = 0.0127 W/kg = -18.96 dBW/kg

**03\_WLAN5GHz\_802.11n-HT40 MCS0\_Inner Face\_0mm\_Ch62**

Communication System: UID 0, WLAN5GHz (0); Frequency: 5310 MHz; Duty Cycle: 1:1  
Medium: HSL\_5000 Medium parameters used:  $f = 5310$  MHz;  $\sigma = 4.651$  S/m;  $\epsilon_r = 35.621$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.1 °C; Liquid Temperature : 22.7 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3857; ConvF(5.21, 5.21, 5.21); Calibrated: 2022/12/14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2022/6/15
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

**Area Scan (151x181x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.0617 W/kg

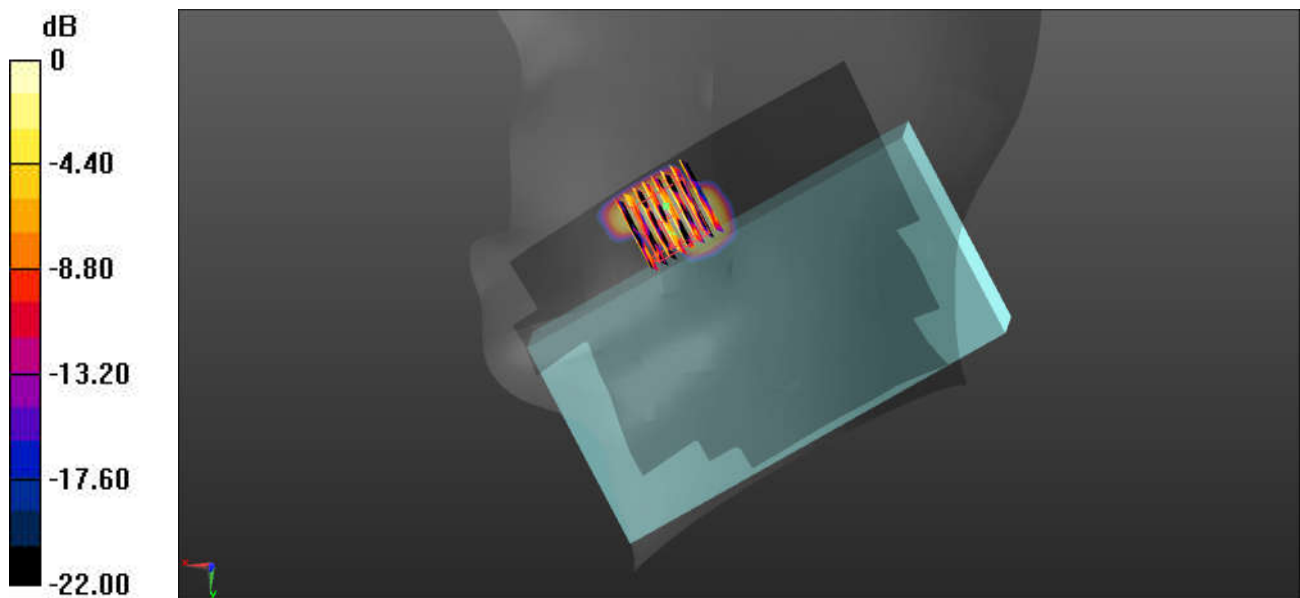
**Zoom Scan (11x11x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 2.857 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.0390 W/kg

**SAR(1 g) = 0.002 W/kg; SAR(10 g) = 0.001 W/kg**

Maximum value of SAR (measured) = 0.0267 W/kg



0 dB = 0.0267 W/kg = -15.73 dBW/kg

**04\_WLAN5GHz\_802.11a 6Mbps\_Inner Face\_0mm\_Ch100**

Communication System: UID 0, WLAN5GHz (0); Frequency: 5500 MHz; Duty Cycle: 1:1.007

Medium: HSL\_5000 Medium parameters used:  $f = 5500$  MHz;  $\sigma = 4.843$  S/m;  $\epsilon_r = 35.287$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.8 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3857; ConvF(4.86, 4.86, 4.86); Calibrated: 2022/12/14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2022/6/15
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

**Area Scan (131x161x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.00505 W/kg

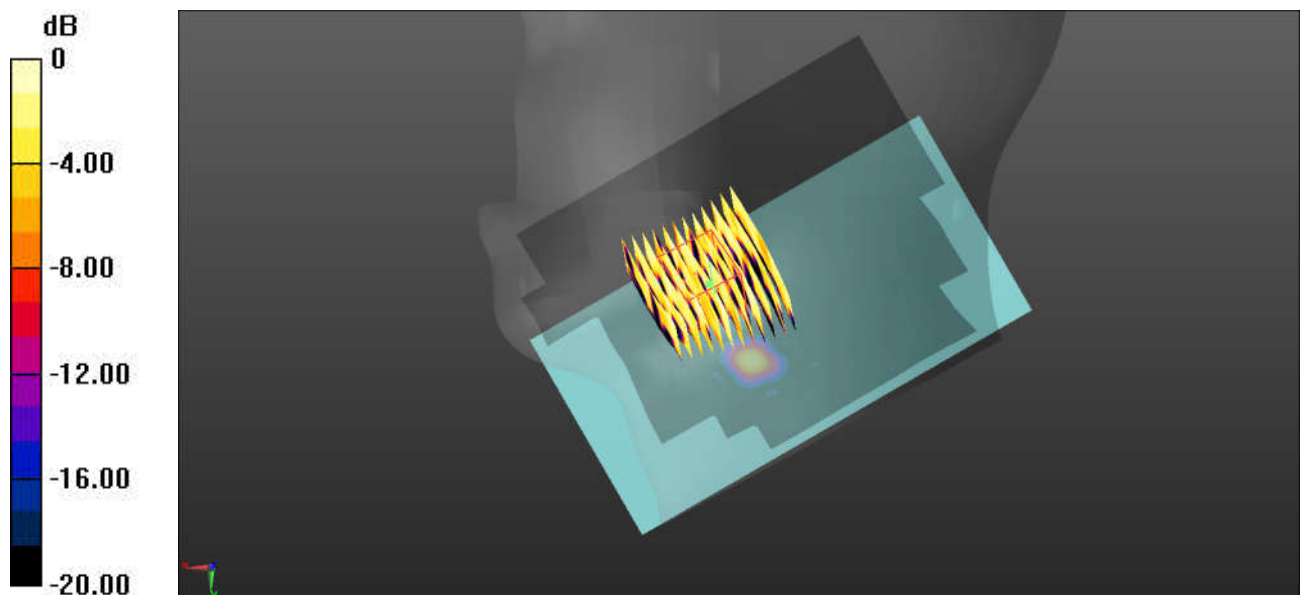
**Zoom Scan (11x12x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 3.057 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.00776 W/kg

**SAR(1 g) = 0.003 W/kg; SAR(10 g) = 0.001 W/kg**

Maximum value of SAR (measured) = 0.0301 W/kg



0 dB = 0.0301 W/kg = -15.21 dBW/kg

**05\_WLAN5GHz\_802.11a 6Mbps\_Inner Face\_0mm\_Ch149**

Communication System: UID 0, WLAN5GHz (0); Frequency: 5745 MHz; Duty Cycle: 1:1.007

Medium: HSL\_5000 Medium parameters used:  $f = 5745$  MHz;  $\sigma = 5.107$  S/m;  $\epsilon_r = 34.895$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.7 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3857; ConvF(4.93, 4.93, 4.93); Calibrated: 2022/12/14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2022/6/15
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

**Area Scan (131x161x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.0497 W/kg

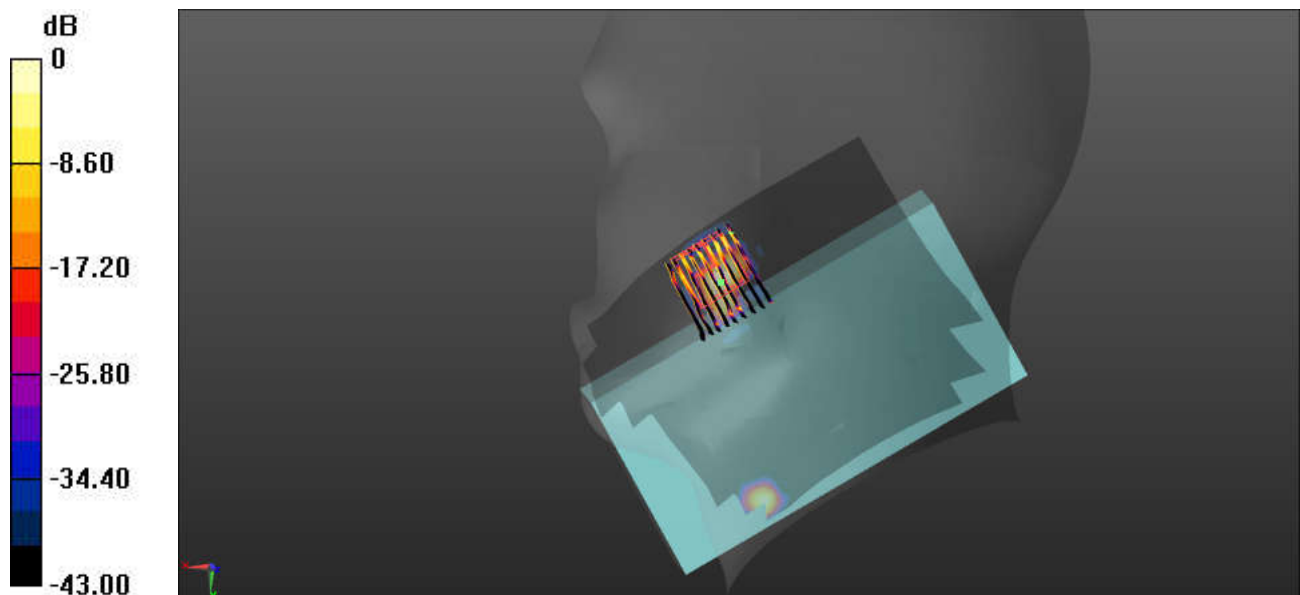
**Zoom Scan (10x14x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 0.8390 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 11.2 W/kg

**SAR(1 g) = 0.013 W/kg; SAR(10 g) = 0.006 W/kg**

Maximum value of SAR (measured) = 0.0283 W/kg



0 dB = 0.0283 W/kg = -15.48 dBW/kg

## 06\_WLAN6GHz\_802.11ax HE160 MCS0\_Inner Face \_0mm\_Ch15

Communication System: U-NII-5; Frequency: 6025.0

Medium: HSL. Medium parameters used:  $f = 6025.0$  MHz;  $\sigma = 5.49$  S/m;  $\epsilon_r = 35.26$

Ambient Temperature: 23.3°C; Liquid Temperature: 22.6°C

DASY6 Configuration:

- Probe: EX3DV4 - SN3857; ConvF(5.55, 5.55, 5.55); Calibrated: 2022-12-14
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn690; Calibrated: 2022-06-15
- Phantom: Twin-SAM 1; Serial: 1644; Section: RightHead
- Measurement Software: cDASY6 V6.6.0.13926

**Area Scan (119.0 mm x 204.0 mm):** Measurement Grid: 8.5 mm x 8.5 mm

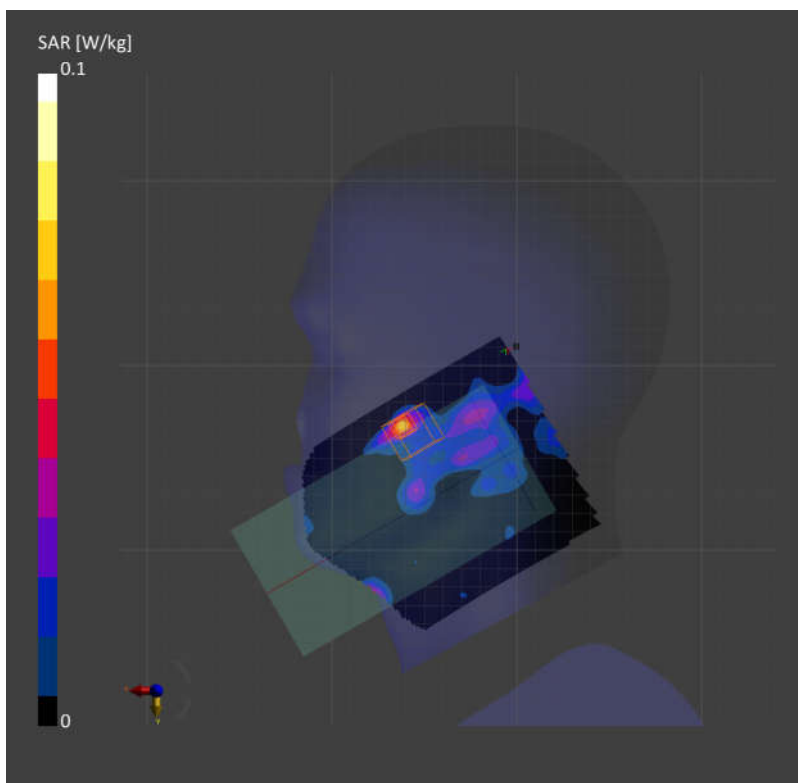
SAR (1g) = 0.667 W/kg; SAR (10g) = 0.137 W/kg;

**Zoom Scan (22.0 mm x 22.0 mm x 22.0 mm):** Measurement Grid: 3.4 mm x 3.4 mm x 1.4 mm

Power Drift = 0.01 dB

SAR (1g) = 0.008 W/kg; SAR (10g) = 0.004 W/kg;

psAPD (4.0cm<sup>2</sup>, sq) = 0.078 [W/m<sup>2</sup>];



**07\_WLAN2.4GHz\_802.11b 1Mbps\_Front\_0mm\_Ch6**

Communication System: UID 0, WLAN2.4GHz (0); Frequency: 2437 MHz; Duty Cycle: 1:1.017  
Medium: HSL\_2450 Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.73$  S/m;  $\epsilon_r = 39.333$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.7 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3857; ConvF(7.71, 7.71, 7.71); Calibrated: 2022/12/14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2022/6/15
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

**Area Scan (101x161x1):** Interpolated grid:  $dx=1.200$  mm,  $dy=1.200$  mm  
Maximum value of SAR (interpolated) = 5.92 W/kg

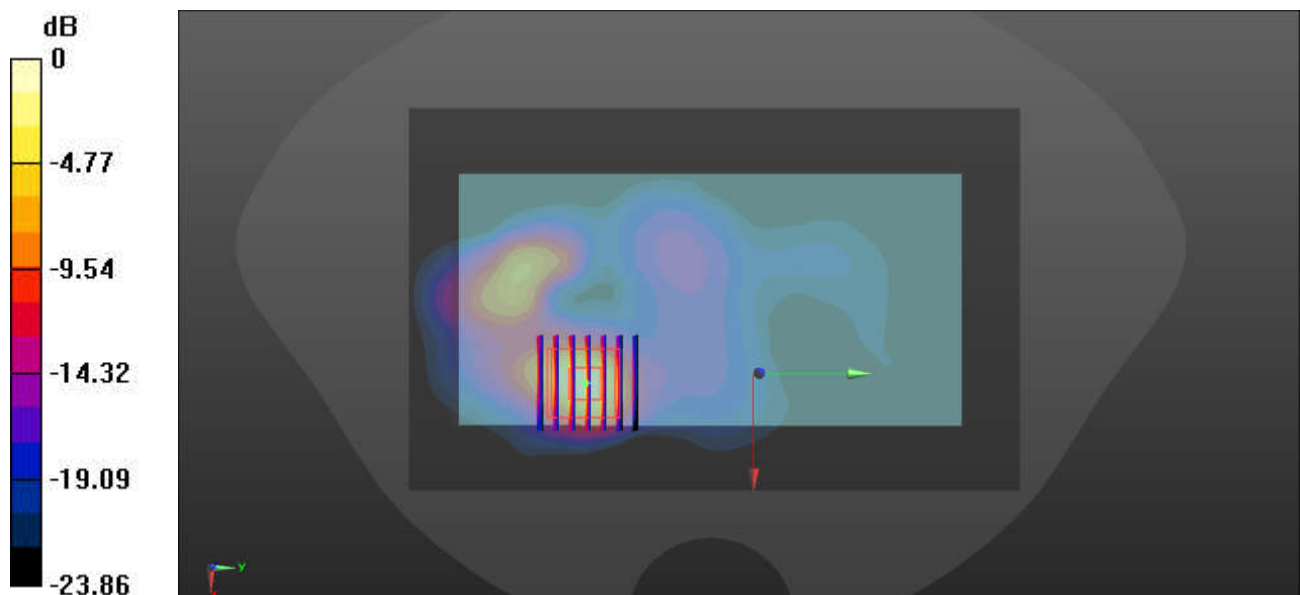
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 9.663 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 8.15 W/kg

**SAR(1 g) = 3.06 W/kg; SAR(10 g) = 1.07 W/kg**

Maximum value of SAR (measured) = 6.28 W/kg



0 dB = 6.28 W/kg = 7.98 dBW/kg

**08\_Bluetooth\_1Mbps\_Front\_0mm\_Ch39**

Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz; Duty Cycle: 1:1.297

Medium: HSL\_2450 Medium parameters used:  $f = 2441$  MHz;  $\sigma = 1.734$  S/m;  $\epsilon_r = 39.31$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.7 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3857; ConvF(7.71, 7.71, 7.71); Calibrated: 2022/12/14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2022/6/15
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

**Area Scan (101x161x1):** Interpolated grid:  $dx=1.200$  mm,  $dy=1.200$  mm

Maximum value of SAR (interpolated) = 1.32 W/kg

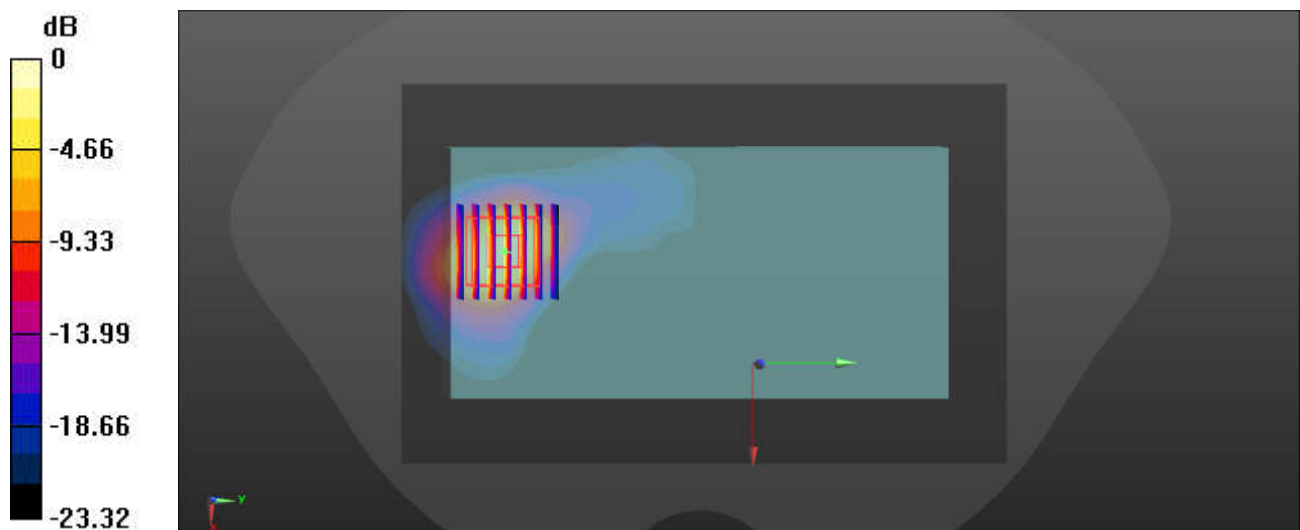
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 0.293 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.47 W/kg

**SAR(1 g) = 0.671 W/kg; SAR(10 g) = 0.275 W/kg**

Maximum value of SAR (measured) = 1.18 W/kg



0 dB = 1.18 W/kg = 0.727 dBW/kg



**09\_WLAN5GHz\_802.11n-HT40 MCS0\_Front\_0mm\_Ch62**

Communication System: UID 0, WLAN5GHz (0); Frequency: 5310 MHz; Duty Cycle: 1:1  
Medium: HSL\_5000 Medium parameters used:  $f = 5310$  MHz;  $\sigma = 4.651$  S/m;  $\epsilon_r = 35.621$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.1 °C; Liquid Temperature : 22.7 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3857; ConvF(5.21, 5.21, 5.21); Calibrated: 2022/12/14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2022/6/15
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

**Area Scan (121x191x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 15.1 W/kg

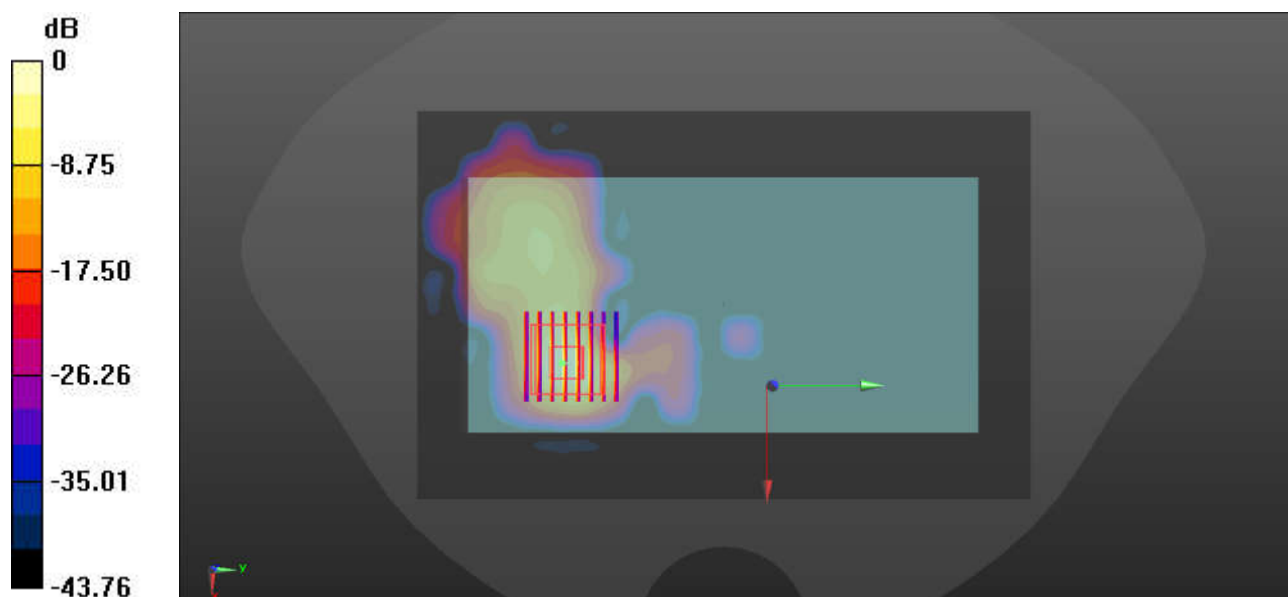
**Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 2.732 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 20.5 W/kg

**SAR(1 g) = 4.77 W/kg; SAR(10 g) = 1.18 W/kg**

Maximum value of SAR (measured) = 12.6 W/kg



0 dB = 12.6 W/kg = 11.00 dBW/kg

**10\_WLAN5GHz\_802.11a 6Mbps\_Front\_0mm\_Ch140**

Communication System: UID 0, WLAN5GHz (0); Frequency: 5700 MHz; Duty Cycle: 1:1.007

Medium: HSL\_5000 Medium parameters used:  $f = 5700$  MHz;  $\sigma = 5.063$  S/m;  $\epsilon_r = 34.945$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.7 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3857; ConvF(4.93, 4.93, 4.93); Calibrated: 2022/12/14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2022/6/15
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

**Area Scan (121x191x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 18.7 W/kg

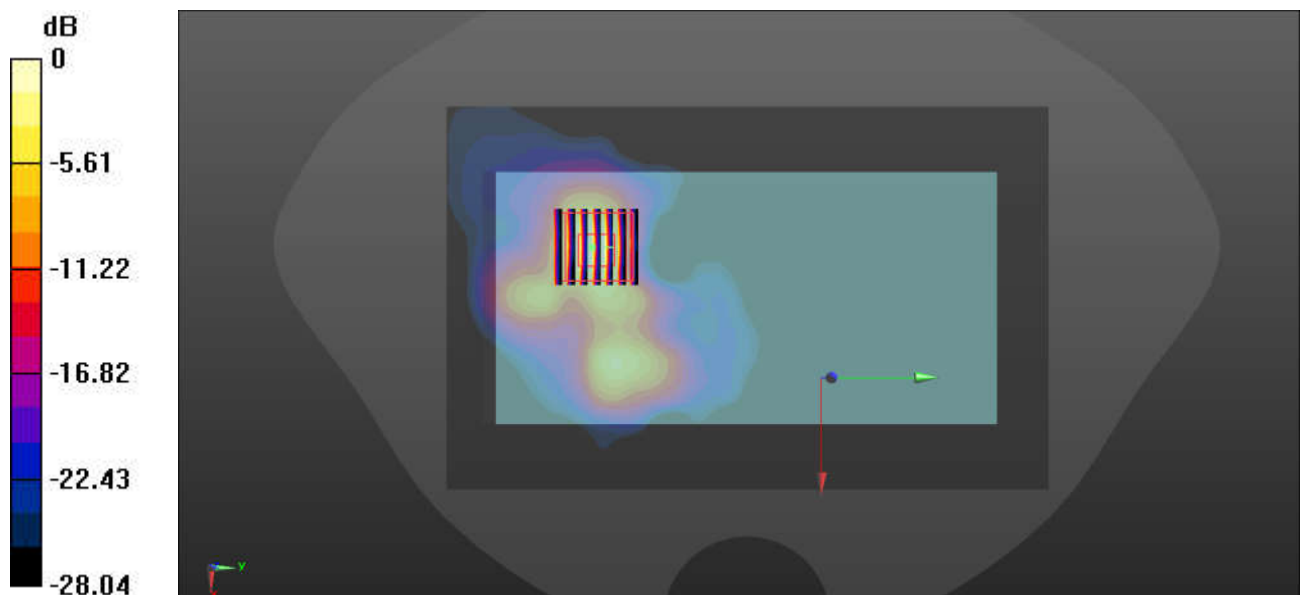
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 3.017 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 25.5 W/kg

**SAR(1 g) = 6.22 W/kg; SAR(10 g) = 1.63 W/kg**

Maximum value of SAR (measured) = 14.7 W/kg



0 dB = 14.7 W/kg = 11.67 dBW/kg

**11\_WLAN5GHz\_802.11a 6Mbps\_Front\_0mm\_Ch165**

Communication System: UID 0, WLAN5GHz (0); Frequency: 5825 MHz; Duty Cycle: 1:1.007  
Medium: HSL\_5000 Medium parameters used:  $f = 5825$  MHz;  $\sigma = 5.2$  S/m;  $\epsilon_r = 34.768$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.7 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3857; ConvF(4.93, 4.93, 4.93); Calibrated: 2022/12/14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2022/6/15
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

**Area Scan (121x191x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 7.25 W/kg

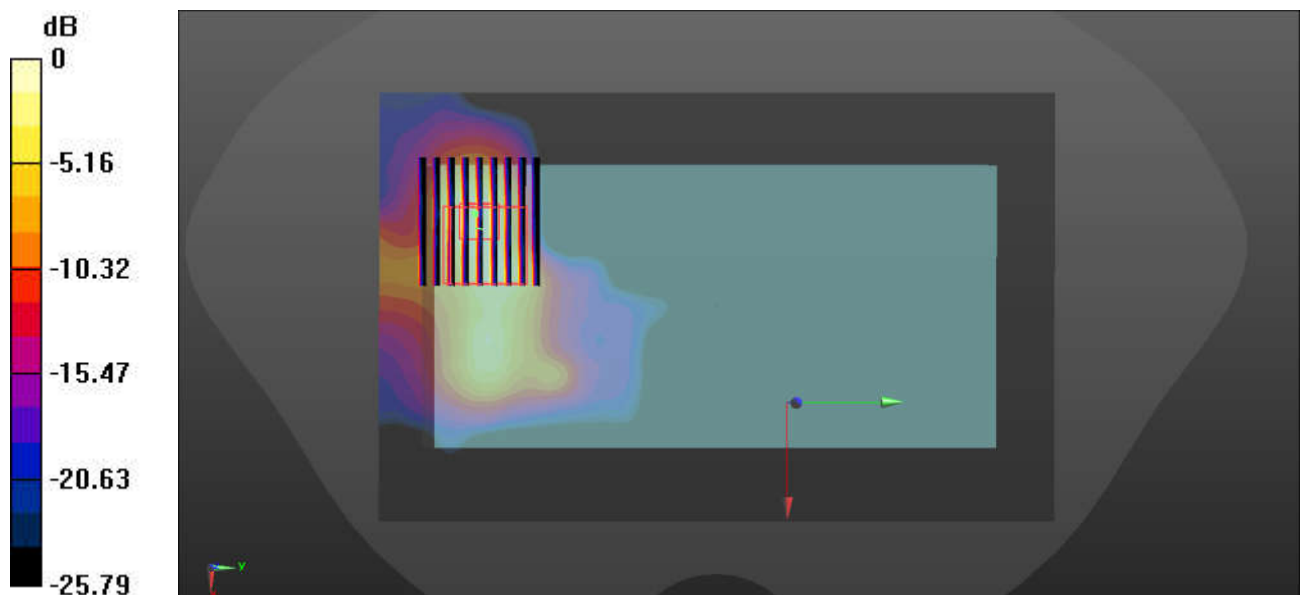
**Zoom Scan (10x9x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 3.540 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 12.7 W/kg

**SAR(1 g) = 2.95 W/kg; SAR(10 g) = 0.948 W/kg**

Maximum value of SAR (measured) = 6.94 W/kg



0 dB = 6.94 W/kg = 8.41 dBW/kg

## 12\_WLAN6GHz\_802.11ax HE160 MCS0\_Front\_0mm\_Ch207

Communication System: U-NII-8; Frequency: 6985.0

Medium: HSL. Medium parameters used:  $f = 6985.0$  MHz;  $\sigma = 6.64$  S/m;  $\epsilon_r = 33.68$

Ambient Temperature: 23.3°C; Liquid Temperature: 22.6°C

DASY6 Configuration:

- Probe: EX3DV4 - SN3857; ConvF(5.55, 5.55, 5.55); Calibrated: 2022-12-14
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn690; Calibrated: 2022-06-15
- Phantom: Twin-SAM 1; Serial: 1644; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926

**Area Scan (119.0 mm x 204.0 mm):** Measurement Grid: 8.5 mm x 8.5 mm

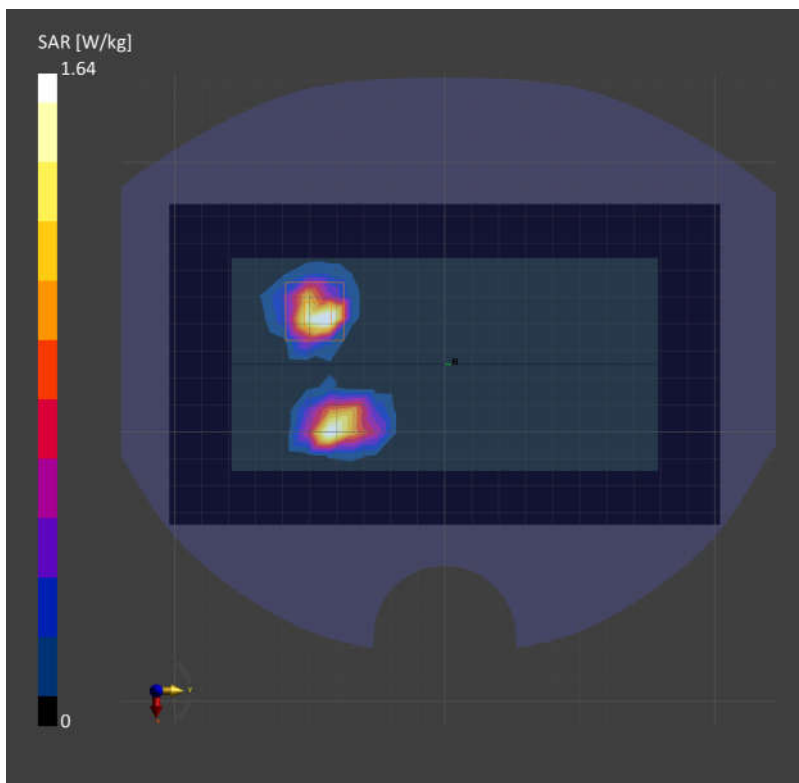
SAR (1g) = 1.40 W/kg; SAR (10g) = 0.385 W/kg;

**Zoom Scan (22.0 mm x 22.0 mm x 22.0 mm):** Measurement Grid: 3.4 mm x 3.4 mm x 1.4 mm

Power Drift = -0.05 dB

SAR (1g) = 1.64 W/kg; SAR (10g) = 0.392 W/kg;

psAPD (4.0cm<sup>2</sup>, sq) = 9.28 [W/m<sup>2</sup>];



01\_WLAN6GHz\_802.11ax-HE160 MCS0\_Front\_2mm\_Ch111

Device Under Test Properties

| Model, Manufacturer | Dimensions [mm]     | IMEI | DUT Type |
|---------------------|---------------------|------|----------|
| Device,             | 158.0 x 79.0 x 37.0 |      | Phone    |

Exposure Conditions

| Phantom Section | Position, Test Distance [mm] | Band    | Group, UID      | Frequency [MHz], Channel Number | Conversion Factor |
|-----------------|------------------------------|---------|-----------------|---------------------------------|-------------------|
| 5G              | FRONT, 2.00                  | U-NII-6 | WLAN, 10743-AAC | 6505.0, 111                     | 1.0               |

Hardware Setup

| Phantom       | Medium | Probe, Calibration Date               | DAE, Calibration Date  |
|---------------|--------|---------------------------------------|------------------------|
| mmWave - 1065 | Air -  | EUmmWV4 - SN9553_F1-55GHz, 2022-09-09 | DAE4 Sn690, 2022-06-15 |

Scans Setup

| Scan Type           | 5G Scan         |
|---------------------|-----------------|
| Grid Extents [mm]   | 120.0 x 120.0   |
| Grid Steps [lambda] | 0.0625 x 0.0625 |
| Sensor Surface [mm] | 2.0             |
| MAIA                | N/A             |

Measurement Results

| Scan Type              | 5G Scan    |
|------------------------|------------|
| Date                   | 2023-01-28 |
| Avg. Area [cm²]        | 4.00       |
| psPDn+ [W/m²]          | 4.21       |
| psPDtot+ [W/m²]        | 4.51       |
| psPDmod+ [W/m²]        | 5.63       |
| E <sub>max</sub> [V/m] | 61.4       |
| Power Drift [dB]       | 0.09       |

