

Appendix B - SAR Measurement

Test Laboratory: TUV Inc.

Date: 2024/3/30

13_WLAN5G_B2_802.11ac-VHT80 MCS0_Right Tilted_0mm_Ch58

DUT: PD470SH-B, 2. PD470SH-N

Communication System: WLAN; Frequency: 5290 MHz; Duty Cycle: 1:1.139

Medium: HSL5G_240330 Medium parameters used: $f = 5290$ MHz; $\sigma = 4.72$ S/m; $\epsilon_r = 36.752$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.9°C

DASY Configuration:

- Electronics: DAE4 Sn855; Calibrated: 2023/4/25
- Probe: EX3DV4 - SN7400; ConvF(5.07, 5.07, 5.07) @ 5290 MHz; Calibrated: 2023/4/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -29.0, 23.0$
- Phantom: Right_Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: TP-1467
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

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

Maximum value of SAR (measured) = 1.33 W/kg

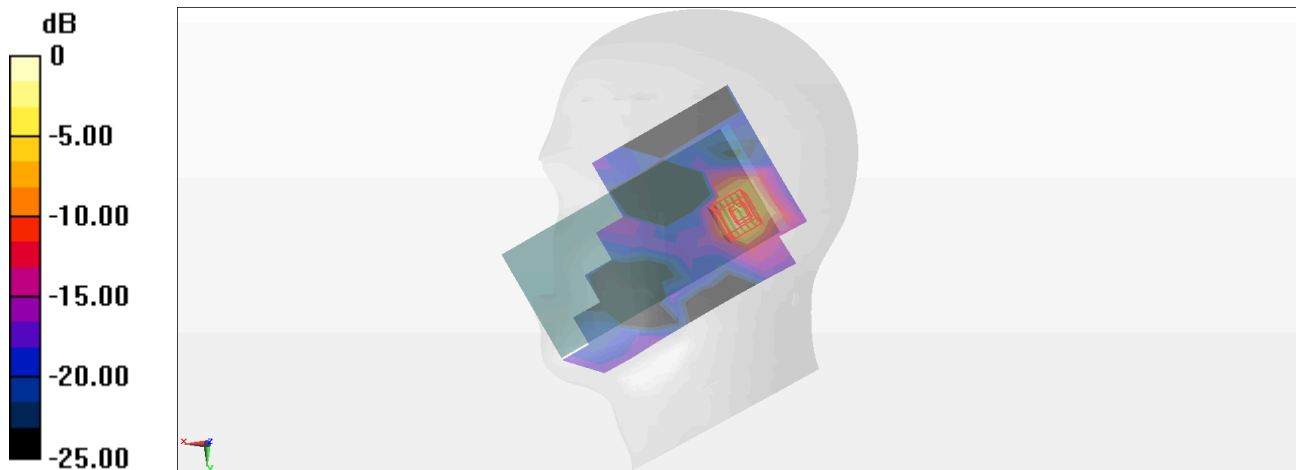
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 17.98 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 3.32 W/kg

SAR(1 g) = 0.914 W/kg; SAR(10 g) = 0.306 W/kg

Maximum value of SAR (measured) = 2.03 W/kg



0 dB = 2.03 W/kg = 3.07 dBW/kg

14_WLAN5G_B2_802.11ac-VHT80 MCS0_Right Tilted_0mm_Ch106

DUT: PD470SH-B, 2. PD470SH-N

Communication System: WLAN; Frequency: 5530 MHz; Duty Cycle: 1:1.139

Medium: HSL5G_240330 Medium parameters used: $f = 5530$ MHz; $\sigma = 5.009$ S/m; $\epsilon_r = 36.454$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.9°C

DASY Configuration:

- Electronics: DAE4 Sn855; Calibrated: 2023/4/25
- Probe: EX3DV4 - SN7400; ConvF(4.72, 4.72, 4.72) @ 5530 MHz; Calibrated: 2023/4/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -29.0, 23.0$
- Phantom: Right_Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: TP-1467
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

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

Maximum value of SAR (measured) = 1.36 W/kg

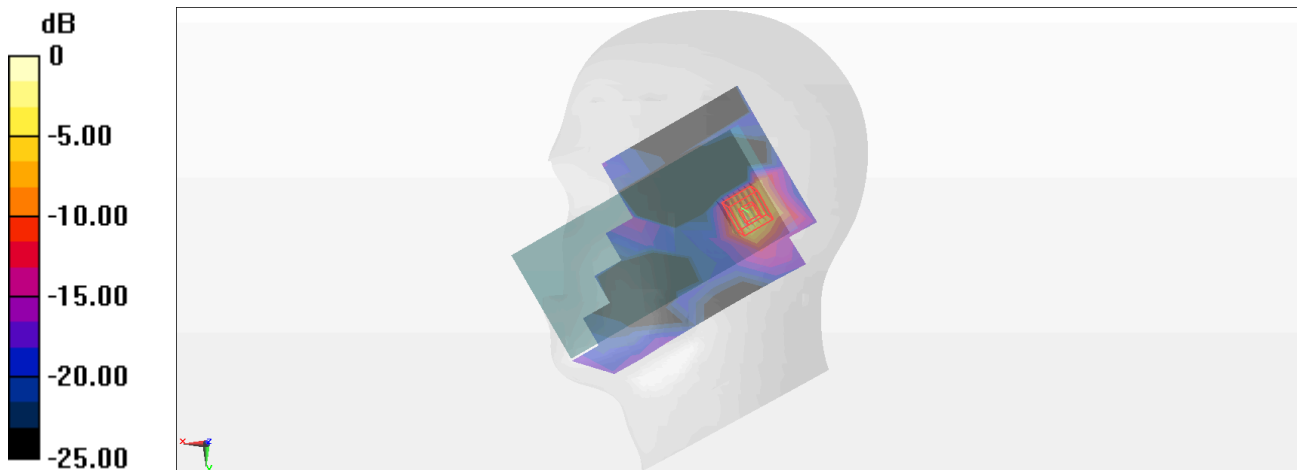
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 17.67 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 3.96 W/kg

SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.335 W/kg

Maximum value of SAR (measured) = 2.38 W/kg



0 dB = 2.38 W/kg = 3.77 dBW/kg

15_WLAN5G_B2_802.11ac-VHT80 MCS0_Front_10mm_Ch58

DUT: PD470SH-B, 2. PD470SH-N

Communication System: WLAN; Frequency: 5290 MHz; Duty Cycle: 1:1.139

Medium: HSL5G_240330 Medium parameters used: $f = 5290$ MHz; $\sigma = 4.72$ S/m; $\epsilon_r = 36.752$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.9°C

DASY Configuration:

- Electronics: DAE4 Sn855; Calibrated: 2023/4/25
- Probe: EX3DV4 - SN7400; ConvF(5.07, 5.07, 5.07) @ 5290 MHz; Calibrated: 2023/4/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -29.0, 23.0$
- Phantom: Right_Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: TP-1467
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

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

Maximum value of SAR (measured) = 0.368 W/kg

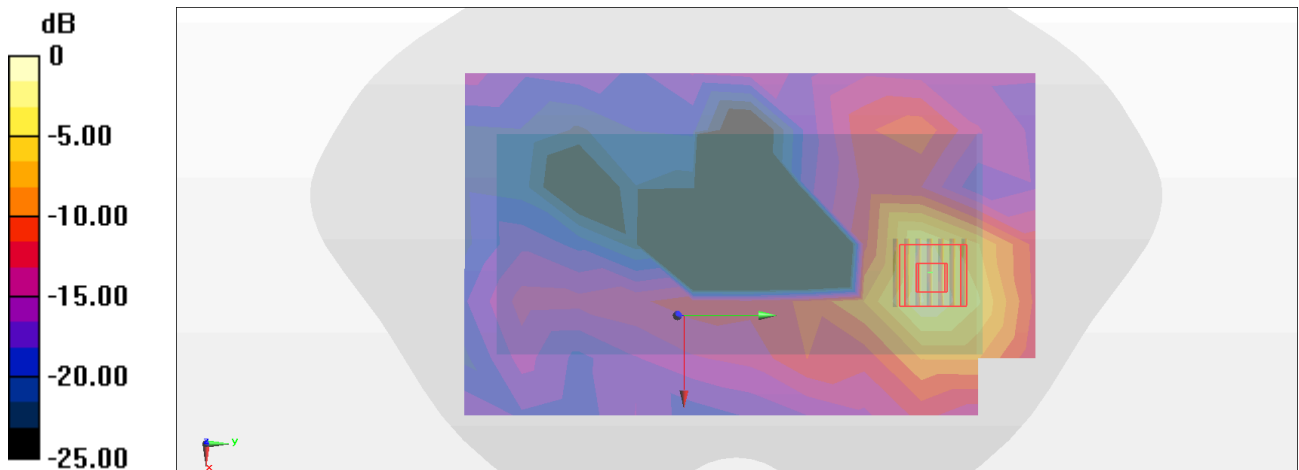
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 9.656 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.860 W/kg

SAR(1 g) = 0.233 W/kg; SAR(10 g) = 0.090 W/kg

Maximum value of SAR (measured) = 0.519 W/kg



0 dB = 0.519 W/kg = -2.85 dBW/kg

16_WLAN5G_B2_802.11ac-VHT80 MCS0_Front_10mm_Ch106

DUT: PD470SH-B, 2. PD470SH-N

Communication System: WLAN; Frequency: 5530 MHz; Duty Cycle: 1:1.139

Medium: HSL5G_240330 Medium parameters used: $f = 5530$ MHz; $\sigma = 5.009$ S/m; $\epsilon_r = 36.454$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.9°C

DASY Configuration:

- Electronics: DAE4 Sn855; Calibrated: 2023/4/25
- Probe: EX3DV4 - SN7400; ConvF(4.72, 4.72, 4.72) @ 5530 MHz; Calibrated: 2023/4/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -29.0, 23.0$
- Phantom: Right_Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: TP-1467
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

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

Maximum value of SAR (measured) = 0.365 W/kg

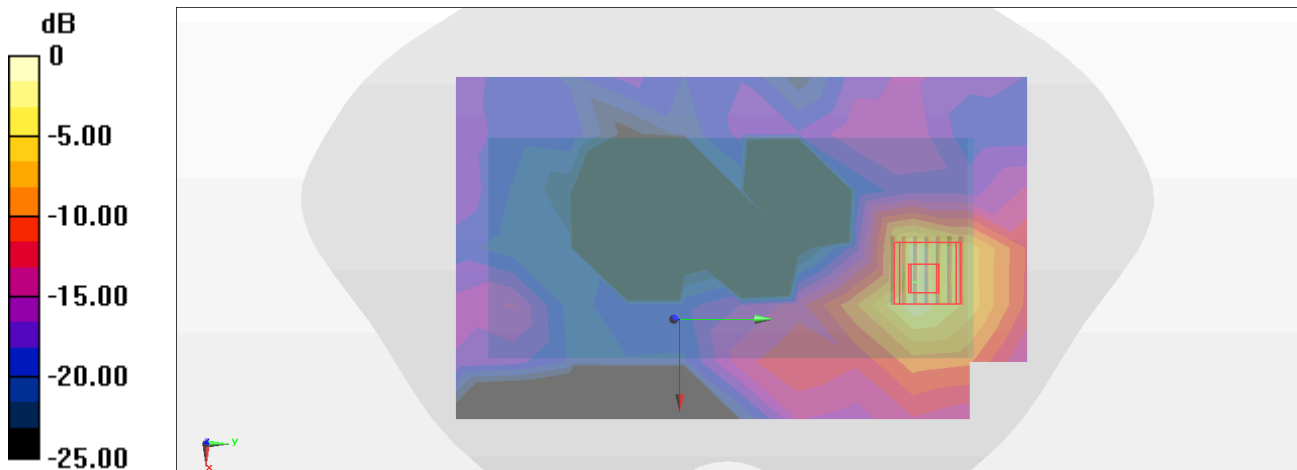
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 9.475 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.00 W/kg

SAR(1 g) = 0.253 W/kg; SAR(10 g) = 0.094 W/kg

Maximum value of SAR (measured) = 0.575 W/kg



0 dB = 0.575 W/kg = -2.40 dBW/kg

17_WLAN5G_B2_802.11ac-VHT80 MCS0_Front_0mm_Ch58

DUT: PD470SH-B, 2. PD470SH-N

Communication System: WLAN; Frequency: 5290 MHz; Duty Cycle: 1:1.139

Medium: HSL5G_240330 Medium parameters used: $f = 5290$ MHz; $\sigma = 4.72$ S/m; $\epsilon_r = 36.752$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.9°C

DASY Configuration:

- Electronics: DAE4 Sn855; Calibrated: 2023/4/25
- Probe: EX3DV4 - SN7400; ConvF(5.07, 5.07, 5.07) @ 5290 MHz; Calibrated: 2023/4/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -29.0, 23.0$
- Phantom: Right_Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: TP-1467
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

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

Maximum value of SAR (measured) = 2.47 W/kg

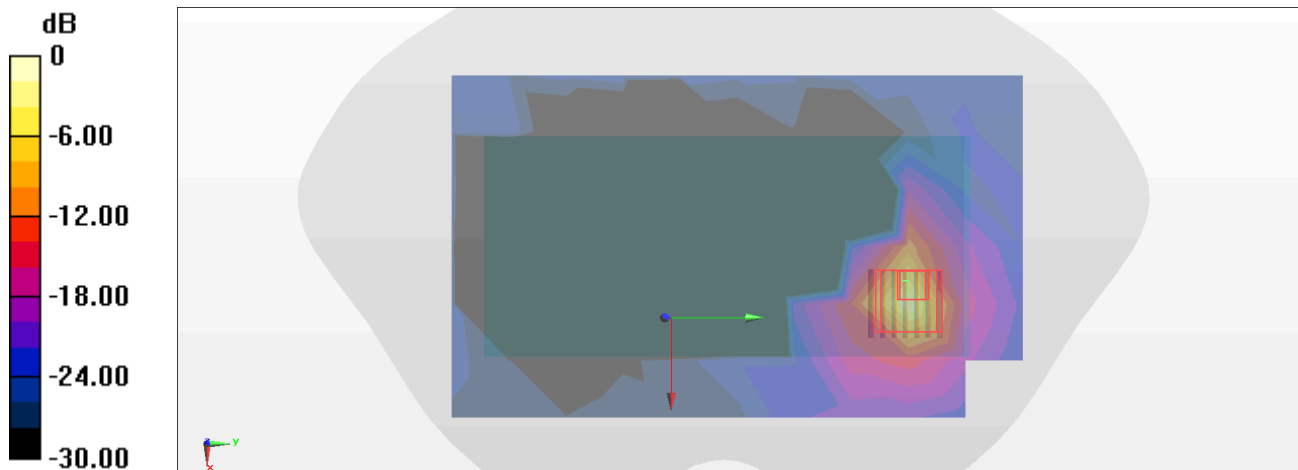
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 25.44 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 8.21 W/kg

SAR(1 g) = 1.49 W/kg; SAR(10 g) = 0.342 W/kg

Maximum value of SAR (measured) = 3.98 W/kg



0 dB = 3.98 W/kg = 6.00 dBW/kg

18_WLAN5G_B2_802.11ac-VHT80 MCS0_Front_0mm_Ch106

DUT: PD470SH-B, 2. PD470SH-N

Communication System: WLAN; Frequency: 5530 MHz; Duty Cycle: 1:1.139

Medium: HSL5G_240330 Medium parameters used: $f = 5530$ MHz; $\sigma = 5.009$ S/m; $\epsilon_r = 36.454$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.9°C

DASY Configuration:

- Electronics: DAE4 Sn855; Calibrated: 2023/4/25
- Probe: EX3DV4 - SN7400; ConvF(4.72, 4.72, 4.72) @ 5530 MHz; Calibrated: 2023/4/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -29.0, 23.0$
- Phantom: Right_Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: TP-1467
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

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

Maximum value of SAR (measured) = 2.42 W/kg

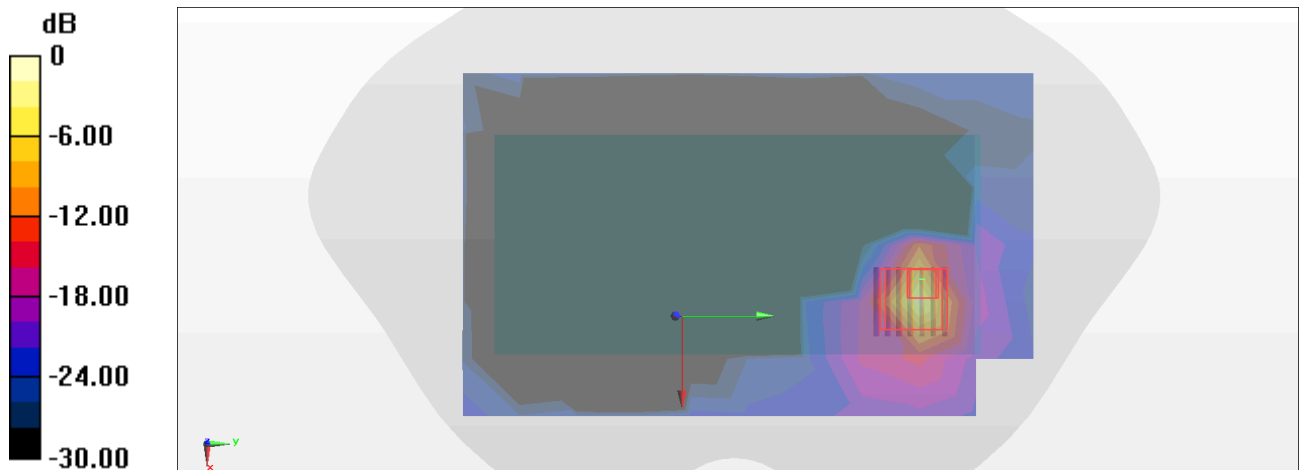
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 25.07 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 8.74 W/kg

SAR(1 g) = 1.48 W/kg; SAR(10 g) = 0.306 W/kg

Maximum value of SAR (measured) = 4.46 W/kg



0 dB = 4.46 W/kg = 6.49 dBW/kg