

Appendix B - SAR Measurement

Test Laboratory: TUV Inc.

Date: 2025/5/29

41_BLE_2Mbps_Front Face_0mm_Freq2442

DUT: MoCap Suit

Communication System: BLE; Frequency: 2442 MHz; Duty Cycle: 1:1

Medium: HSL2450_250529 Medium parameters used: $f = 2442$ MHz; $\sigma = 1.841$ S/m; $\epsilon_r = 39.928$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C; Liquid Temperature : 22.4°C

DASY Configuration:

- Electronics: DAE4 Sn855; Calibrated: 2025/4/23
- Probe: EX3DV4 - SN3975; ConvF(7.01, 7.42, 7.15) @ 2442 MHz; Calibrated: 2024/6/25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -29.0, 31.0$
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 AA; Serial: 1153
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Area Scan (10x12x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.124 W/kg

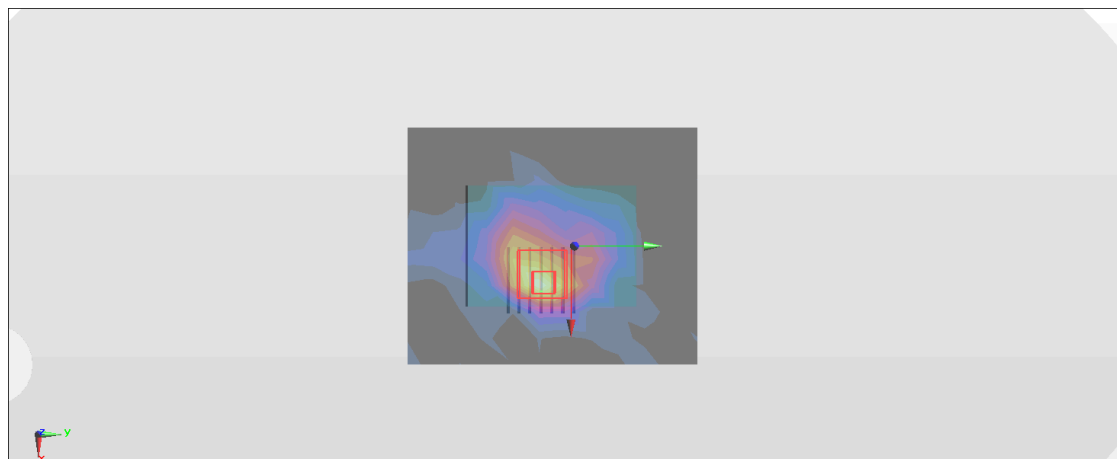
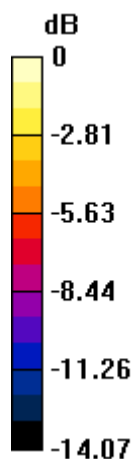
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 8.528 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.191 W/kg

SAR(1 g) = 0.065 W/kg; SAR(10 g) = 0.029 W/kg

Maximum value of SAR (measured) = 0.123 W/kg



0 dB = 0.123 W/kg = -9.10 dBW/kg

42_WLAN2.4GHz_802.11b 1Mbps_Front Face_0mm_Freq2437**DUT: MoCap Suit**

Communication System: WLAN; Frequency: 2437 MHz; Duty Cycle: 1:1.028

Medium: HSL2450_250529 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.836$ S/m; $\epsilon_r = 39.945$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C; Liquid Temperature : 22.4°C

DASY Configuration:

- Electronics: DAE4 Sn855; Calibrated: 2025/4/23
- Probe: EX3DV4 - SN3975; ConvF(7.01, 7.42, 7.15) @ 2437 MHz; Calibrated: 2024/6/25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -29.0, 31.0$
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 AA; Serial: 1153
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Area Scan (10x12x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

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

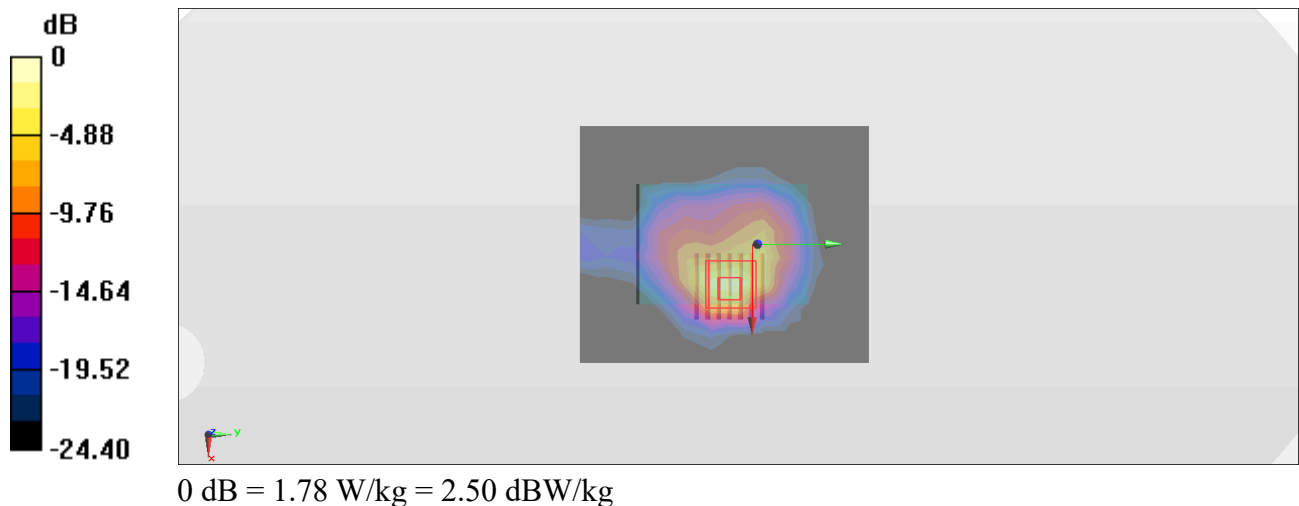
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 27.19 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 2.91 W/kg

SAR(1 g) = 0.920 W/kg; SAR(10 g) = 0.342 W/kg

Maximum value of SAR (measured) = 1.78 W/kg



25_WLAN5GHz_802.11n-HT20 MCS0_Front Face_0mm_Freq5200

DUT: MoCap Suit

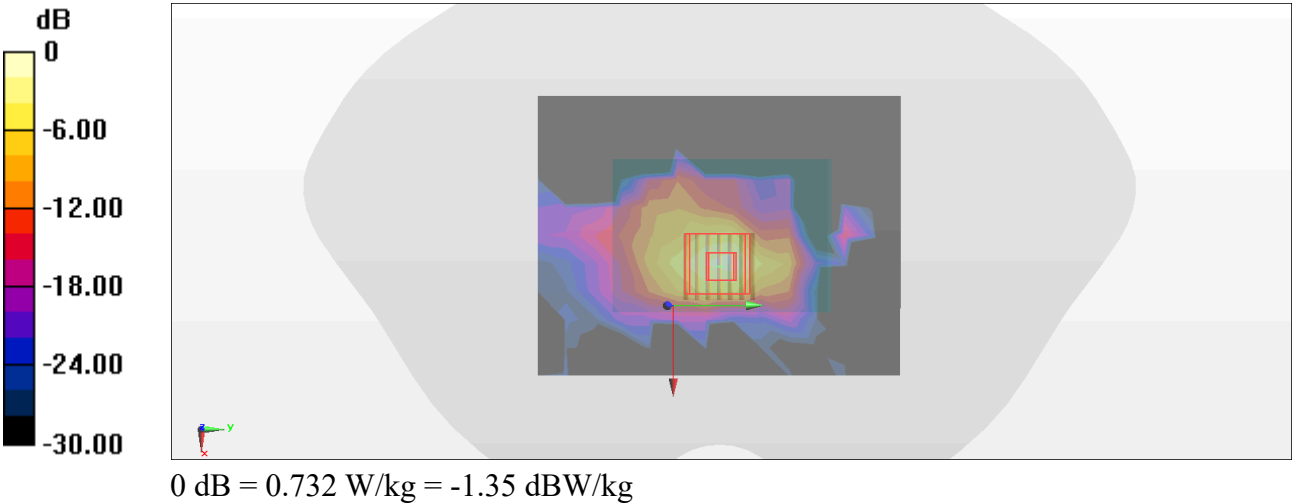
Communication System: WLAN; Frequency: 5200 MHz; Duty Cycle: 1:1.148
Medium: HSL5G_241218 Medium parameters used: $f = 5200\text{ MHz}$; $\sigma = 4.508\text{ S/m}$; $\epsilon_r = 35.358$; $\rho = 1000\text{ kg/m}^3$
Ambient Temperature : 23.3 °C;Liquid Temperature : 22.3°C

DASY Configuration:

- Electronics: DAE4 Sn855; Calibrated: 2024/4/22
- Probe: EX3DV4 - SN7400; ConvF(5.05, 5.05, 5.05) @ 5200 MHz; Calibrated: 2024/4/25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -29.0, 23.0$
- Phantom: Twin-SAM V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: S/N: 1806
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Area Scan (11x14x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
Maximum value of SAR (measured) = 0.650 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$
Reference Value = 13.55 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 1.29 W/kg
SAR(1 g) = 0.318 W/kg; SAR(10 g) = 0.098 W/kg
Maximum value of SAR (measured) = 0.732 W/kg



17_WLAN5GHz_802.11ax-HE20 MCS0_Front Face_0mm_Freq5580

DUT: MoCap Suit

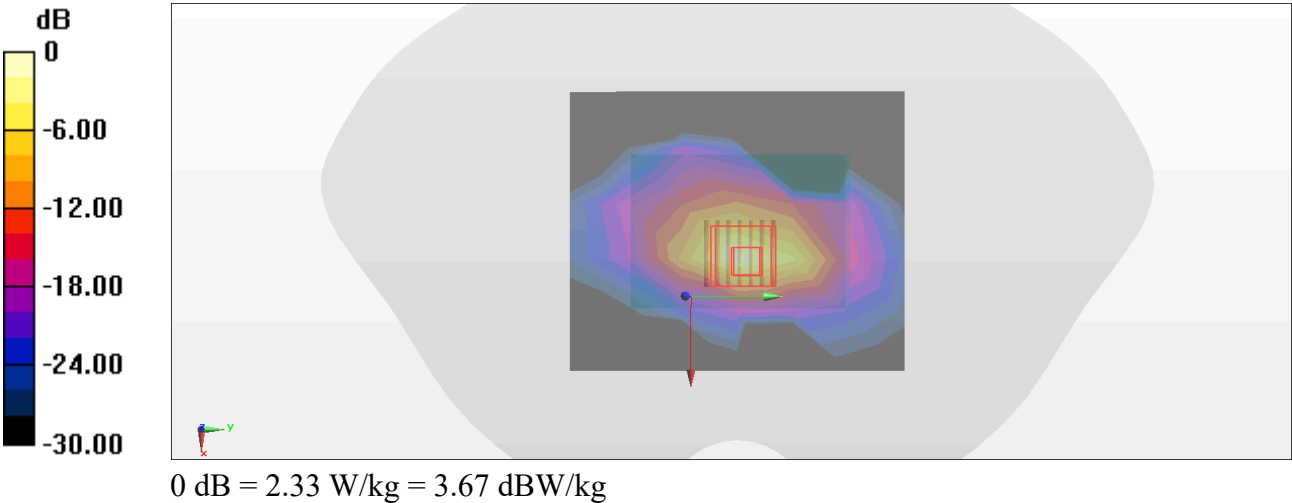
Communication System: WLAN; Frequency: 5580 MHz; Duty Cycle: 1:1.203
Medium: HSL5G_241218 Medium parameters used: f = 5580 MHz; $\sigma = 4.883 \text{ S/m}$; $\epsilon_r = 34.702$; $\rho = 1000 \text{ kg/m}^3$
Ambient Temperature : 23.3 °C;Liquid Temperature : 22.3°C

DASY Configuration:

- Electronics: DAE4 Sn855; Calibrated: 2024/4/22
- Probe: EX3DV4 - SN7400; ConvF(4.74, 4.74, 4.74) @ 5580 MHz; Calibrated: 2024/4/25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = -29.0, 23.0
- Phantom: Twin-SAM V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: S/N: 1806
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Area Scan (6x7x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (measured) = 1.94 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 20.34 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 4.55 W/kg
SAR(1 g) = 0.908 W/kg; SAR(10 g) = 0.262 W/kg
Maximum value of SAR (measured) = 2.33 W/kg



37_WLAN5GHz_802.11a 6Mbps_Front Face_0mm_Freq5745**DUT: MoCap Suit**

Communication System: WLAN; Frequency: 5745 MHz; Duty Cycle: 1:1.147

Medium: HSL5G_241218 Medium parameters used: $f = 5745$ MHz; $\sigma = 5.057$ S/m; $\epsilon_r = 34.397$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.3 °C

DASY Configuration:

- Electronics: DAE4 Sn855; Calibrated: 2024/4/22
- Probe: EX3DV4 - SN7400; ConvF(4.77, 4.77, 4.77) @ 5745 MHz; Calibrated: 2024/4/25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -29.0, 23.0$
- Phantom: Twin-SAM V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: S/N: 1806
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Area Scan (11x13x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 1.82 W/kg

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

Reference Value = 19.67 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 3.98 W/kg

SAR(1 g) = 0.754 W/kg; SAR(10 g) = 0.213 W/kg

Maximum value of SAR (measured) = 2.01 W/kg

