

Appendix B - SAR Measurement

Test Laboratory: TUV Inc.

Date: 2024/11/13

133_WLAN2.4GHz_802.11b 1Mbps_Left Side_10mm_Ch1

DUT: 隨身攜帶的通訊裝置

Communication System: WLAN; Frequency: 2412 MHz; Duty Cycle: 1:1.003

Medium: HSL2450_241113 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.754$ S/m; $\epsilon_r = 40.055$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C; Liquid Temperature : 22.8°C

DASY Configuration:

- Electronics: DAE4 Sn855; Calibrated: 2024/4/22
- Probe: EX3DV4 - SN7400; ConvF(7.67, 7.67, 7.67) @ 2412 MHz; Calibrated: 2024/4/25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -49.0, 31.0$
- 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 (9x14x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.459 W/kg

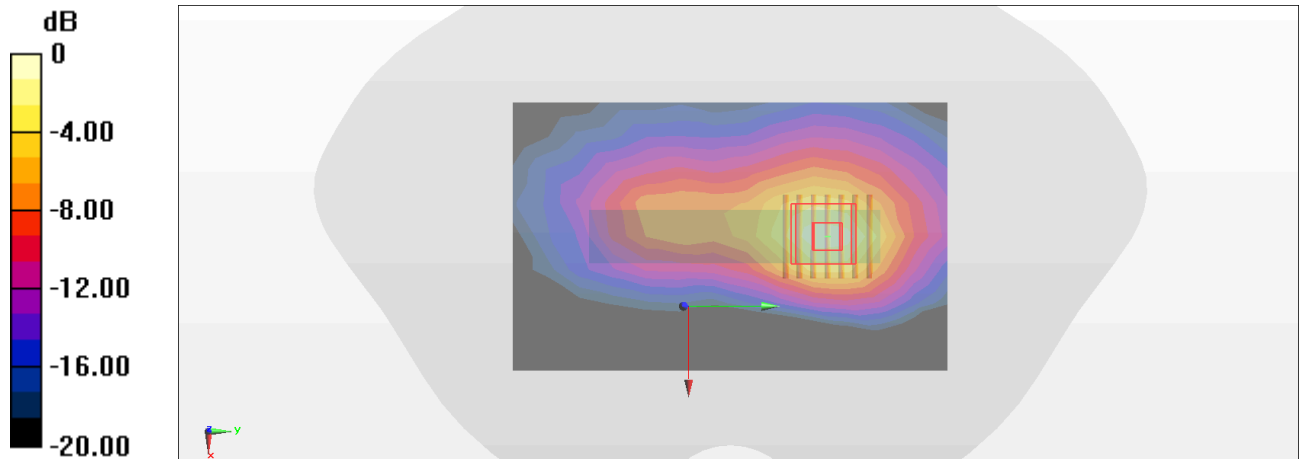
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 15.98 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.589 W/kg

SAR(1 g) = 0.308 W/kg; SAR(10 g) = 0.157 W/kg

Maximum value of SAR (measured) = 0.483 W/kg



0 dB = 0.483 W/kg = -3.16 dBW/kg

139_WLAN5GHz_802.11a 6Mbps_Front_10mm_Ch52

DUT: 隨身攜帶的通訊裝置

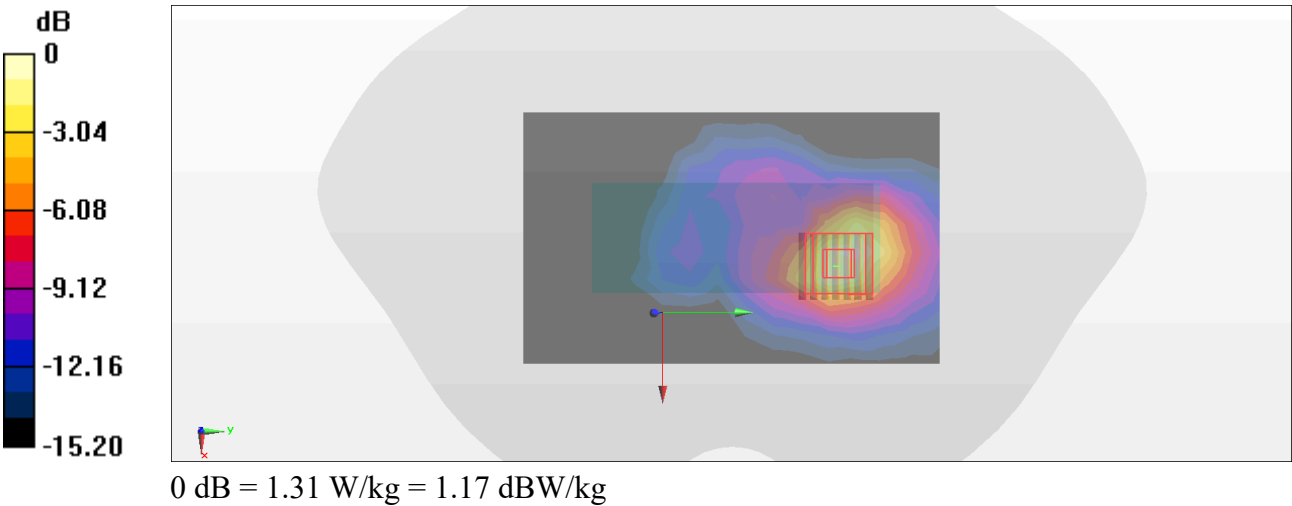
Communication System: WLAN; Frequency: 5260 MHz; Duty Cycle: 1:1.004
Medium: HSL5G_241115 Medium parameters used: $f = 5260 \text{ MHz}$; $\sigma = 4.555 \text{ S/m}$; $\epsilon_r = 35.619$; $\rho = 1000 \text{ kg/m}^3$
Ambient Temperature : 23.2 °C;Liquid Temperature : 22.6°C

DASY Configuration:

- Electronics: DAE4 Sn855; Calibrated: 2024/4/22
- Probe: EX3DV4 - SN7400; ConvF(5.05, 5.05, 5.05) @ 5260 MHz; Calibrated: 2024/4/25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -49.0, 23.0$
- 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 (10x16x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
Maximum value of SAR (measured) = 1.14 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$
Reference Value = 17.81 V/m; Power Drift = -0.18 dB
Peak SAR (extrapolated) = 1.84 W/kg
SAR(1 g) = 0.668 W/kg; SAR(10 g) = 0.299 W/kg
Maximum value of SAR (measured) = 1.31 W/kg



155_WLAN5GHz_802.11a 6Mbps_Front_10mm_Ch100

DUT: 隨身攜帶的通訊裝置

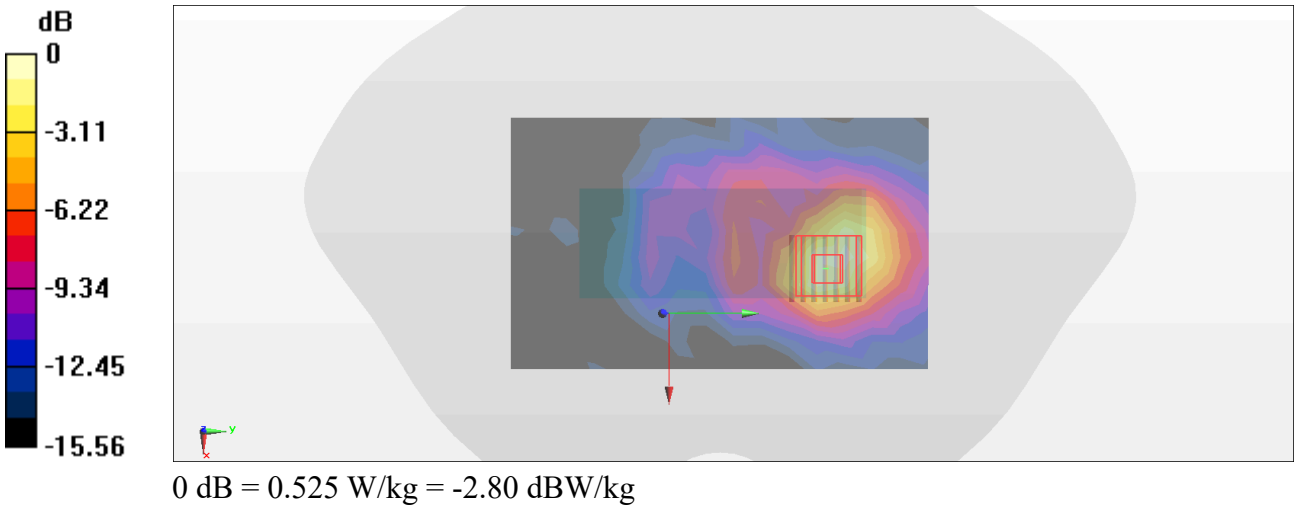
Communication System: WLAN; Frequency: 5500 MHz; Duty Cycle: 1:1.004
Medium: HSL5G_241115 Medium parameters used: $f = 5500\text{ MHz}$; $\sigma = 4.792\text{ S/m}$; $\epsilon_r = 35.153$; $\rho = 1000\text{ kg/m}^3$
Ambient Temperature : 23.2 °C;Liquid Temperature : 22.6°C

DASY Configuration:

- Electronics: DAE4 Sn855; Calibrated: 2024/4/22
- Probe: EX3DV4 - SN7400; ConvF(4.74, 4.74, 4.74) @ 5500 MHz; Calibrated: 2024/4/25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -49.0, 23.0$
- 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 (10x16x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
Maximum value of SAR (measured) = 0.477 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$
Reference Value = 11.16 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.765 W/kg
SAR(1 g) = 0.267 W/kg; SAR(10 g) = 0.123 W/kg
Maximum value of SAR (measured) = 0.525 W/kg



179_WLAN5GHz_802.11a 6Mbps_Front_10mm_Ch165

DUT: 隨身攜帶的通訊裝置

Communication System: WLAN; Frequency: 5825 MHz; Duty Cycle: 1:1.004
Medium: HSL5G_241115 Medium parameters used: f = 5825 MHz; $\sigma = 5.144$ S/m; $\epsilon_r = 34.59$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.2 °C;Liquid Temperature : 22.6°C

DASY Configuration:

- Electronics: DAE4 Sn855; Calibrated: 2024/4/22
- Probe: EX3DV4 - SN7400; ConvF(4.77, 4.77, 4.77) @ 5825 MHz; Calibrated: 2024/4/25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = -49.0, 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 (10x16x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.780 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 13.64 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 1.12 W/kg
SAR(1 g) = 0.326 W/kg; SAR(10 g) = 0.124 W/kg
Maximum value of SAR (measured) = 0.721 W/kg

