

Appendix B - SAR Measurement

Test Laboratory: TUV Inc.

Date: 2024/5/23

07_Bluetooth-LE_2Mbps_Bottom Side_0mm_Ch1

DUT: HXMS234, HXMS241, HXWD231

Communication System: Bluetooth-LE; Frequency: 2404 MHz; Duty Cycle: 1:1

Medium: HSL2450_240523 Medium parameters used: $f = 2404$ MHz; $\sigma = 1.75$ S/m; $\epsilon_r = 38.78$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.5°C

DASY Configuration:

- Electronics: DAE4 Sn855; Calibrated: 2024/4/22
- Probe: EX3DV4 - SN7400; ConvF(7.67, 7.67, 7.67) @ 2404 MHz; Calibrated: 2024/4/25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -19.0, 31.0$
- 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 (10x14x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.106 W/kg

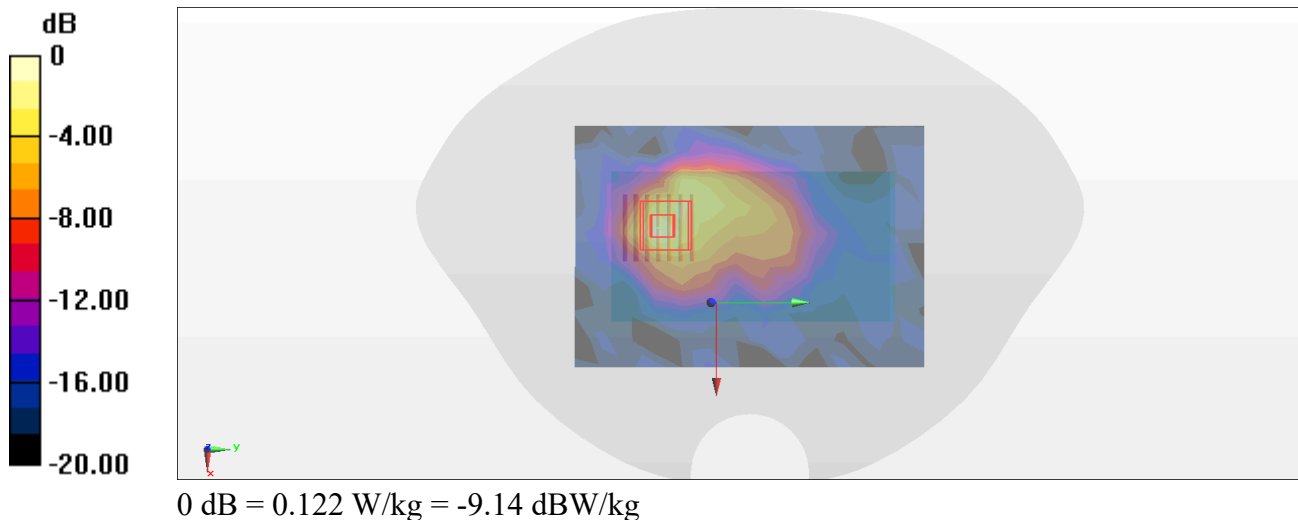
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 3.480 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.152 W/kg

SAR(1 g) = 0.072 W/kg; SAR(10 g) = 0.032 W/kg

Maximum value of SAR (measured) = 0.122 W/kg



16_SRD2.4GHz_2Mbps_Bottom Side_0mm_Ch19**DUT: HXMS234, HXMS241, HXWD231**

Communication System: SRD2.4GHz; Frequency: 2440 MHz; Duty Cycle: 1:1

Medium: HSL2450_240523 Medium parameters used: $f = 2440$ MHz; $\sigma = 1.787$ S/m; $\epsilon_r = 38.711$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.5°C

DASY Configuration:

- Electronics: DAE4 Sn855; Calibrated: 2024/4/22
- Probe: EX3DV4 - SN7400; ConvF(7.67, 7.67, 7.67) @ 2440 MHz; Calibrated: 2024/4/25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -19.0, 31.0$
- 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 (10x14x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.154 W/kg

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

Reference Value = 3.576 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.211 W/kg

SAR(1 g) = 0.099 W/kg; SAR(10 g) = 0.045 W/kg

Maximum value of SAR (measured) = 0.168 W/kg

