

Appendix B - SAR Measurement

Test Laboratory: TUV Inc.

Date: 2024/8/5

08_BLE_2Mbps_Bottom Side_0mm_Ch39

DUT: HXMS233

Communication System: Bluetooth; Frequency: 2480 MHz; Duty Cycle: 1:1.329

Medium: HSL2450_240805 Medium parameters used: $f = 2480$ MHz; $\sigma = 1.877$ S/m; $\epsilon_r = 40.08$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C; Liquid Temperature : 22.6°C

DASY Configuration:

- Electronics: DAE4 Sn855; Calibrated: 2024/4/22
- Probe: EX3DV4 - SN7400; ConvF(7.67, 7.67, 7.67) @ 2480 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) = 0.0709 W/kg

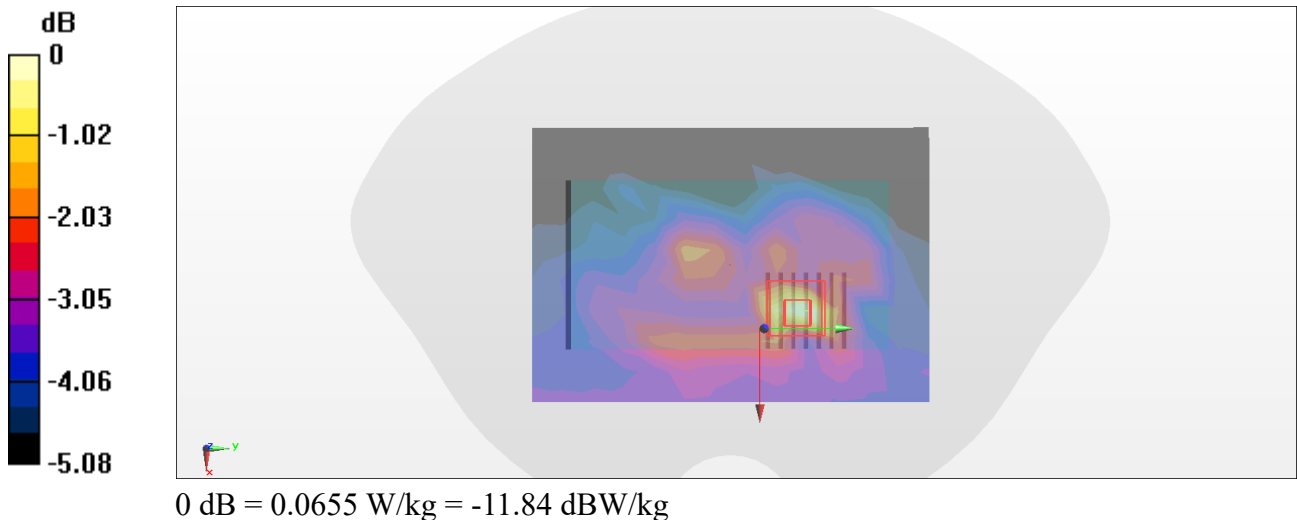
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 6.031 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.0790 W/kg

SAR(1 g) = 0.045 W/kg; SAR(10 g) = 0.028 W/kg

Maximum value of SAR (measured) = 0.0655 W/kg



16_SRD2.4GHz_Bottom Side_0mm_Freq2478

DUT: HXMS233

Communication System: SRD; Frequency: 2478 MHz; Duty Cycle: 1:1.997
Medium: HSL2450_240805 Medium parameters used: $f = 2478 \text{ MHz}$; $\sigma = 1.875 \text{ S/m}$; $\epsilon_r = 40.087$; $\rho = 1000 \text{ kg/m}^3$
Ambient Temperature : 23.5 °C; Liquid Temperature : 22.6°C

DASY Configuration:

- Electronics: DAE4 Sn855; Calibrated: 2024/4/22
- Probe: EX3DV4 - SN7400; ConvF(7.67, 7.67, 7.67) @ 2478 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: $dx=12\text{mm}$, $dy=12\text{mm}$
Maximum value of SAR (measured) = 0.0781 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
Reference Value = 6.684 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.127 W/kg
SAR(1 g) = 0.051 W/kg; SAR(10 g) = 0.020 W/kg
Maximum value of SAR (measured) = 0.0964 W/kg

