Test Report

Customer name: Hao Wei Electronics **project name：**

HW7258-WL-S922-WIFI A0

Case number: Y2506091290 **Version: V1.0**

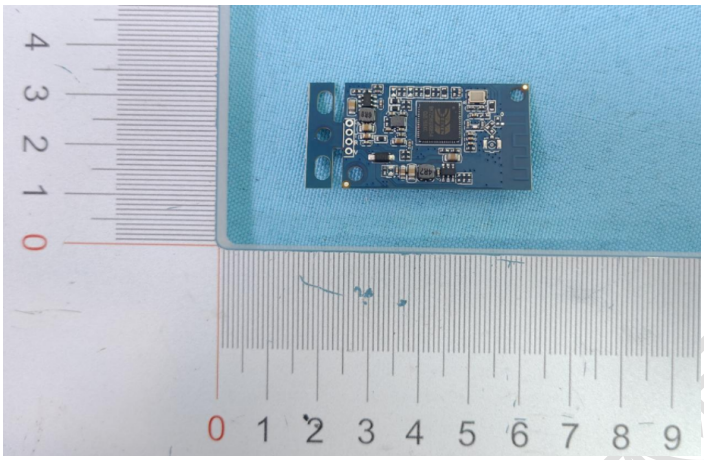
Structural engineer: Xie Meiquan **Radio engineer: Liu Wei**

Auditor: Liu Lihua **Made on: 20250610**

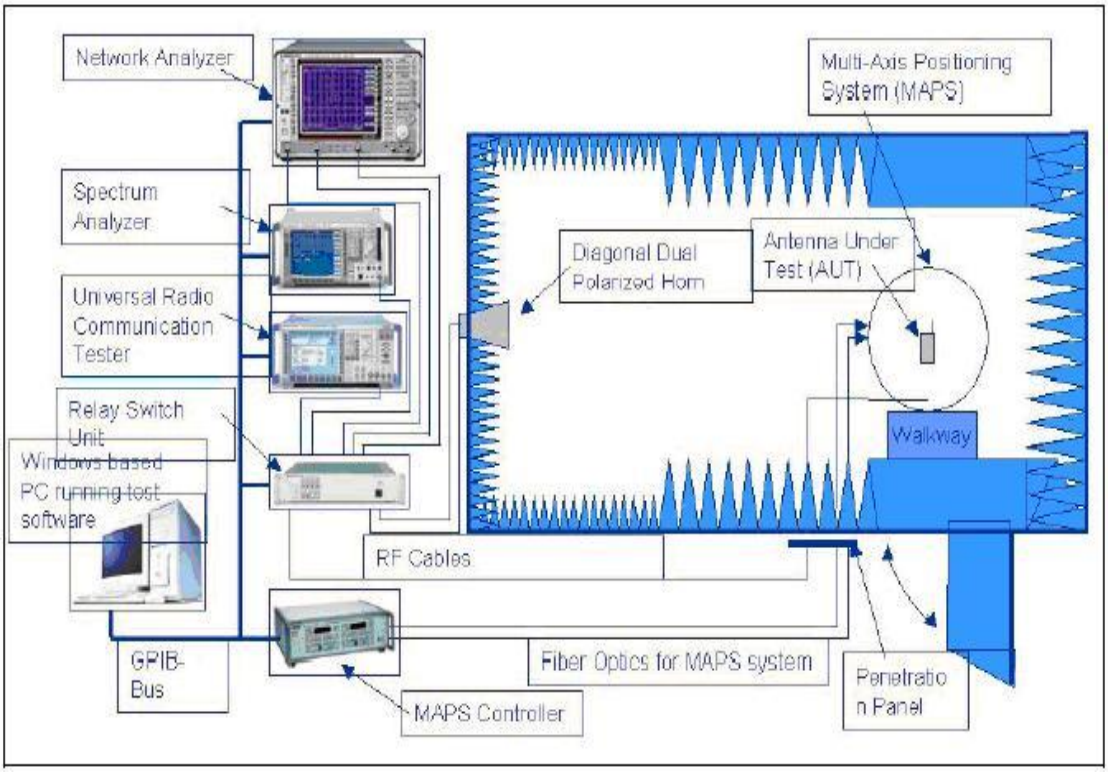
Date of revision	Amendment content	expurgator	Original version
20250610	Initial version	Liu Wei	V1.0

Description

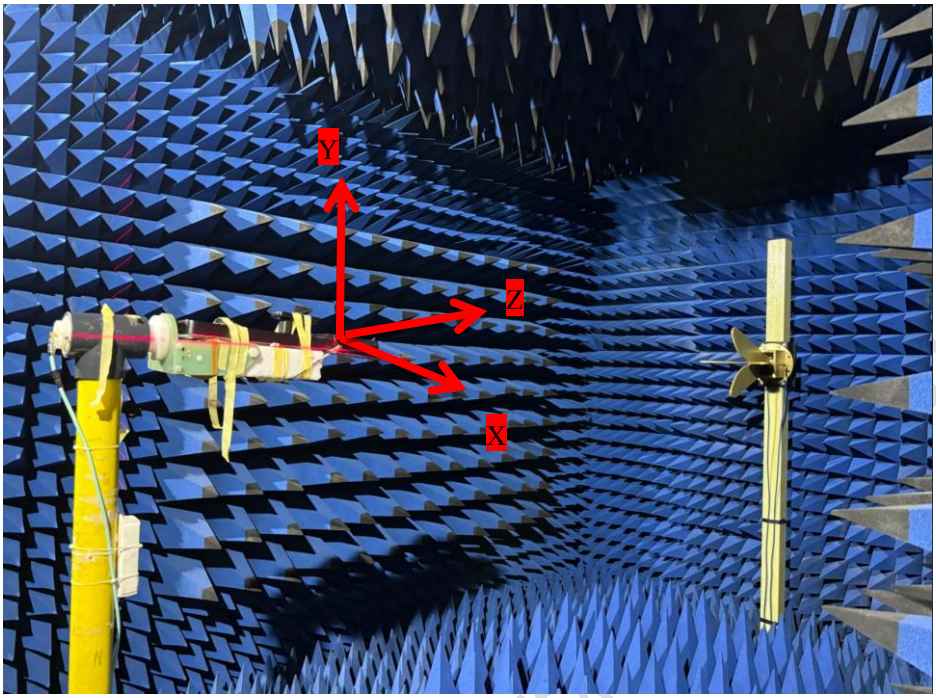
This report summarizes the electrical performance results of the HW7258-WL-S922-WIFIA0 smart lock project antenna, including the S11 parameters, Efficiency, gain and other content of the antenna, as well as the corresponding conclusions.



III. Test Schematic Diagram of Microwave Dark Room

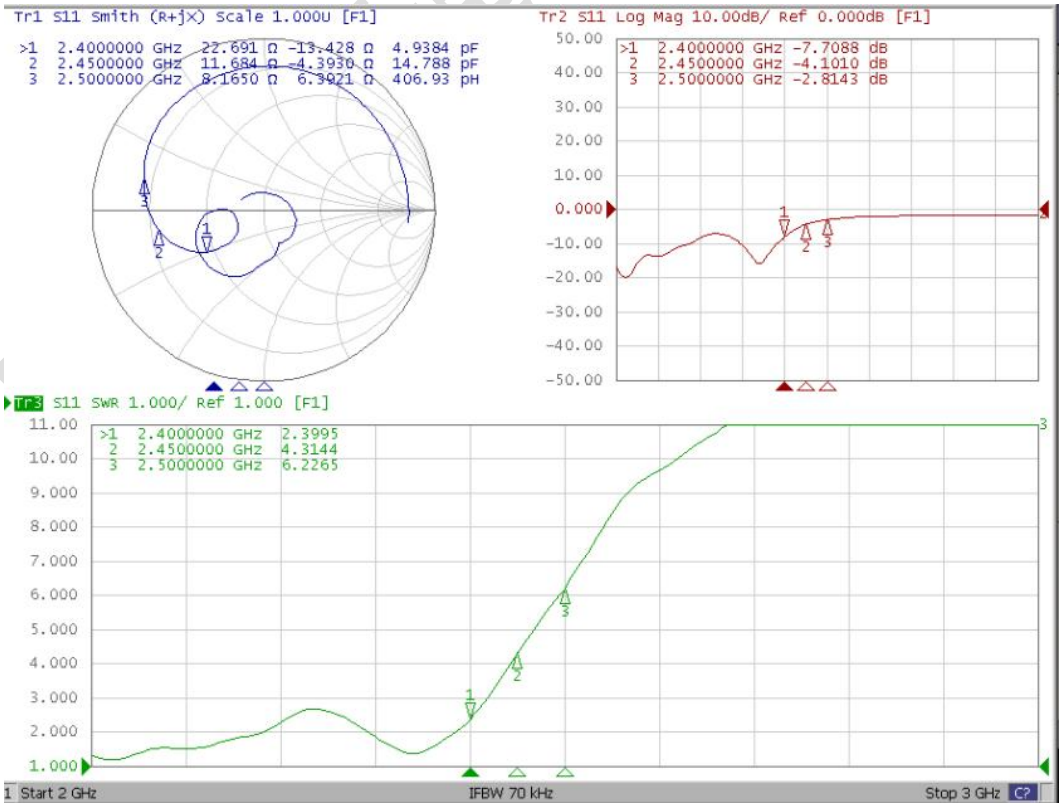


IV. Placement of the Antenna Test Dark Room



V. Antenna passive test data (confirmation:☑Whole machine test☐Single antenna test **)**

- Antenna S11 parameter diagram (board antenna)



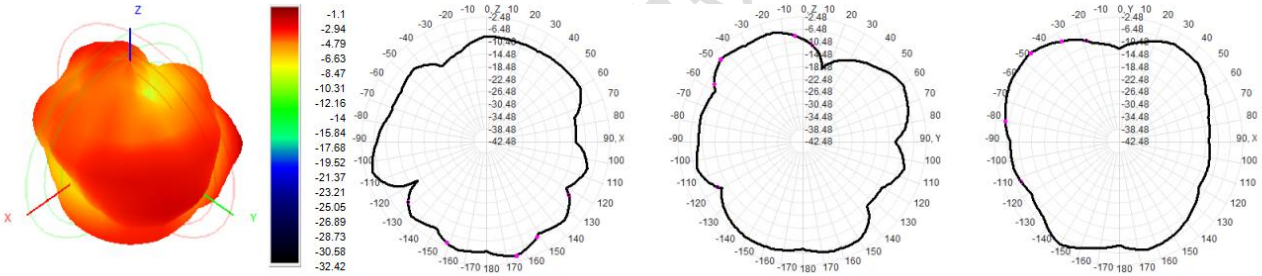
➢ Zappeo data

Freq/MHz	2400MHz	2450MHz	2500MHz
VSWR	2.39	4.31	6.22

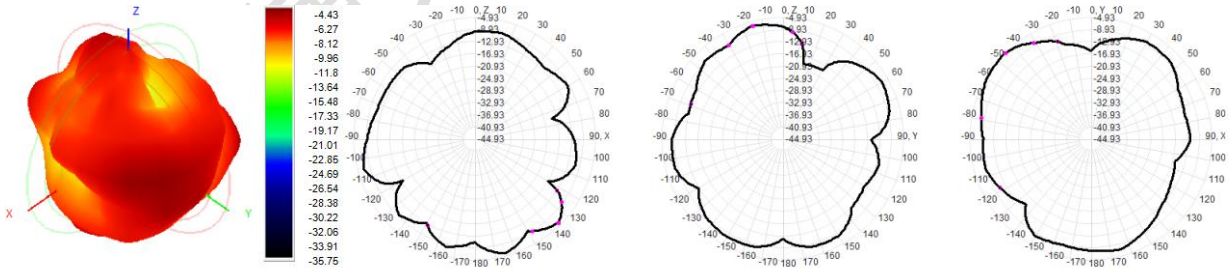
➢ Antenna anechoic chamber test data

Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400	-1.10	16.84
2410	-1.96	16.05
2420	-2.61	14.16
2430	-3.37	13.17
2440	-3.51	11.92
2450	-4.43	10.81
2460	-4.40	10.17
2470	-4.30	9.85
2480	-4.25	9.46
2490	-4.76	8.28
2500	-4.70	8.73

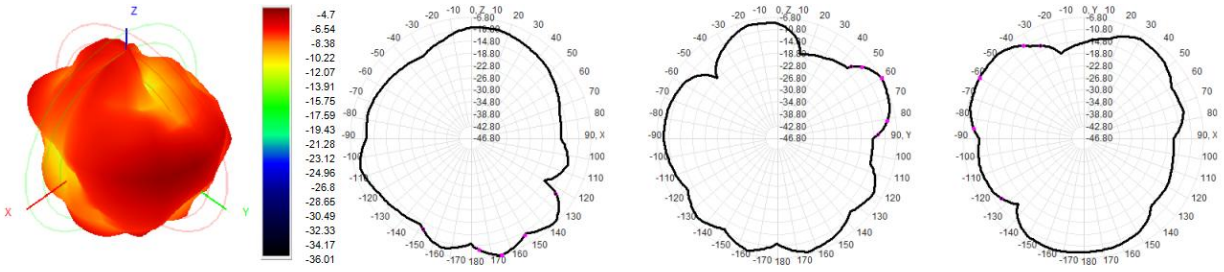
➢ Antenna direction diagram 2400M 3D-E1-E2-H



2450M 3D-E1-E2-H



2500M 3D-E1-E2-H



The above is the test report of the onboard antenna of HW7258-WL-S922-WIFIA0 microscope smart lock project. The assembly method and other aspects need to be evaluated by customers. The specific performance is recommended for customers to verify through actual measurement. Please evaluate and consider the above, thank you!