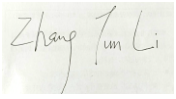
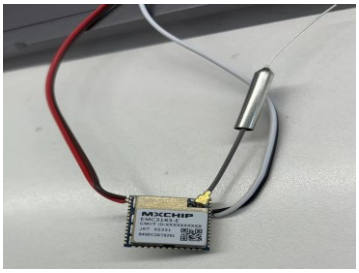
Antenna RF Report

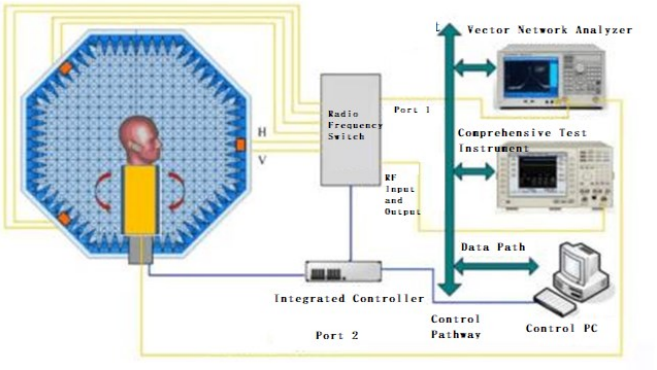
Model Name	**EMC3183-E**
HW Solution	**IOT WLAN (802.11) Module RTL8720CM**
FW Version	**0000.0000.A250**
Report No.	**MXCHIP-EMC3183-E RF Test_001**
Manufacture and Applicant	**Shanghai MXCHIP Information Technology Co., Ltd.**
Test Laboratory Address	**9th Floor, No.5, Lane2145, Jinsha Jiang Road, Putuo District, Shanghai.** **MXCHIP RF Testing Laboratory**

Tester	
Reviewer	
Date	2024.07.18.

1. Test Device



2. Test Environment Setup



3. Test Equipment

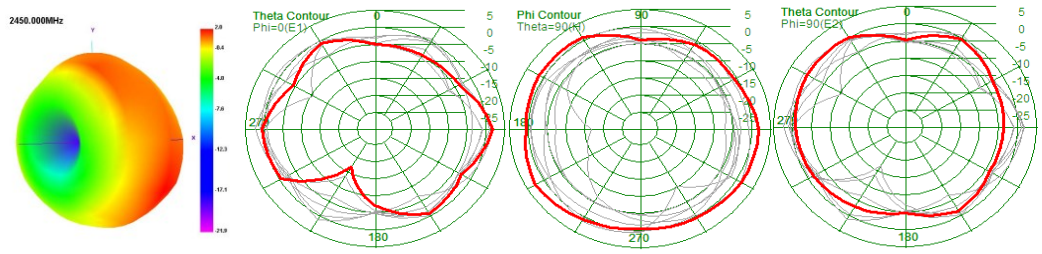
Equipment	Model	Manufacture
Vector Network Analyzer	E5071C	KEYSIGHT
Comprehensive Test Instrument	RayZone-5000	GTS

4. Antenna Efficient and Gain

Freq (MHz)	Effi (%%)	Effi (dB)	Gain (dBi)	Min (dB)	Attenut Hor	Attenut Ver
2400	62.62	-2.03	1.8	-10.6	53.28	52.56
2410	61.46	-2.11	1.8	-10.55	53.34	52.58
2420	61.23	-2.13	1.8	-10.49	53.45	52.63
2430	62.98	-2.01	1.8	-10.26	53.33	52.73
2440	62.74	-2.02	1.7	-10.11	53.37	52.78
2450	65.08	-1.87	1.7	-10.11	53.46	53.02
2460	63.73	-1.96	2	-10.13	53.47	52.9
2470	65.77	-1.82	1.8	-10	53.54	52.93
2480	65.7	-1.82	1.7	-10.46	53.54	52.79
2490	67.63	-1.7	1.9	-10.24	53.54	52.88
2500	67.39	-1.71	2	-10.14	53.52	52.85

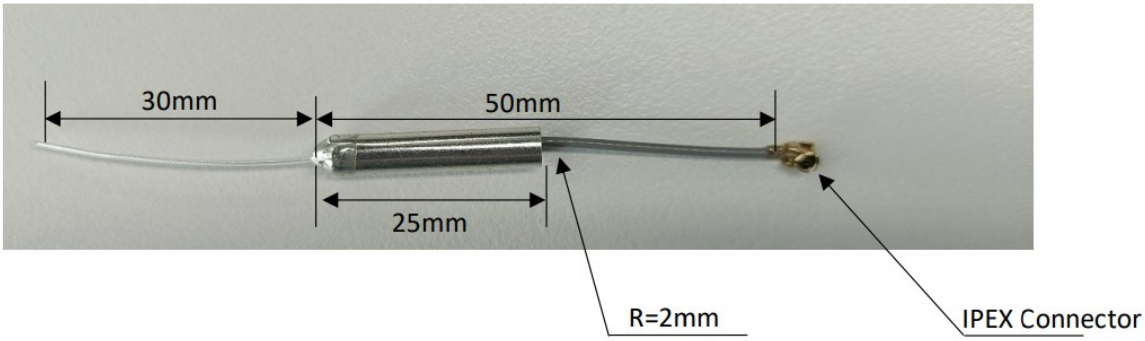
5. Antenna Radiation

2450MHz



6. Antenna Type

Antenna Type: Copper tube antenna

Antenna Frequency: 2.4GHz

Antenna Dimension: As shown in following figure