天线测试报告

Test Procedure

Test Step Flow

1. Maintain the test ambient temperature of 25.6℃, the instrument is powered on and preheated for more than 30 minutes
2. Tum on the darkroom power supply, connect the test cable, and set up the sample according to the standard
3. Outline sets the test content objectives and conducts calibration tests
4. Run the EMQuest OTA software, the test is complete, export the corresponding test diagram and test data, and save to the corresponding directory

Test Principle

The test principle can be seen in accordance with the standard ANSI/IEEE std 149-2021

Test Conditions

1.The analyte, the network analyzer for testing, the test equipment and the test cable connector should have good reliability, stability, dynamic range and measurement accuracy to ensure the correctness of the measurement accuracy
2. The measuring instrument should have a certificate of conformity and be within the effective calibration period
3. The analyte should be complete and undamaged, and the test environment should be kept clean

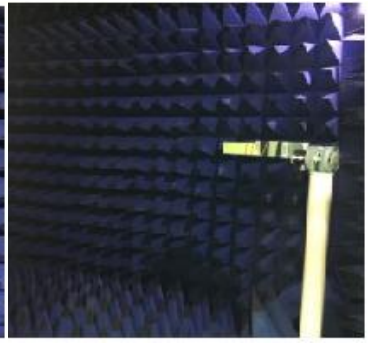
Test Personal :Mark Li Title of Test Person:Engineer Date: 2023.11.08

测试环境
Test environment

Software: SUNYIELD Version: V2.10.1

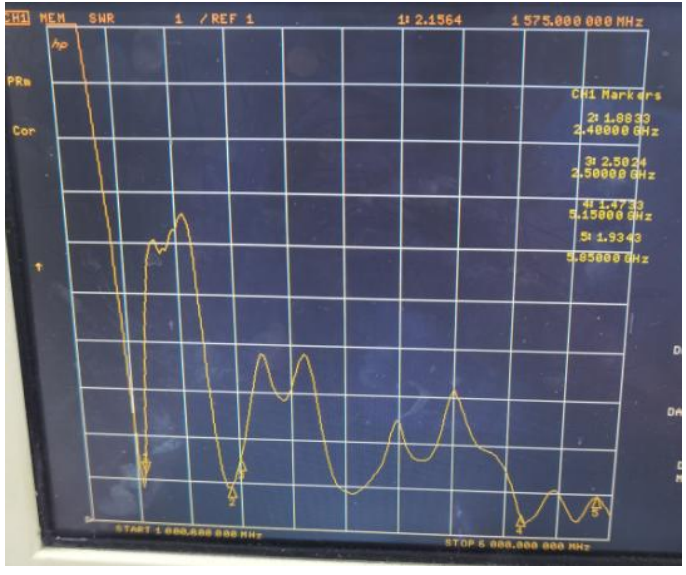
	测试项目	测试设备
S参数 （S-parameter）	1.电压驻波比(VSWR) 2.回波损耗（Rrtun Loss）	网络分析仪：Agilent8753ES Last car:2023.05.15 Due day:2024.05.14 Last Cal:2023.05.15 Due Date:2024.05.14
2.有源测试 (Active)	1.发射功率（TRP） 2.接收灵敏度（TIS） 3.屏灭/屏亮	1.暗室：5*3*3m（3D）Chamber 2.综测仪：Agilent8960 CMW500 Last car:2023.05.15 Due day:2024.05.14 Last Cal:2023.05.15 Due Date:2024.05.14
3.无源测试 （Passive）	1.天线增益(Gain) 2.天线效率（Efficiency）	1.暗室：5*3*3m（3D）Chamber 2.网络分析仪：Agilent 8753ES Last Cal:2023.05.15 Due Date:2024.05.14 Last car:2023.05.15 Due day:2024.05.14

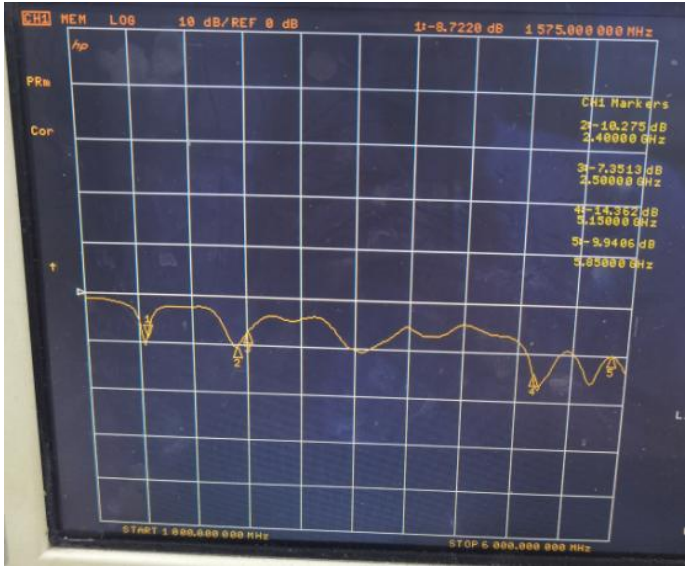
3.



无源测试数据
Passive test data

ANT VSWR&Return Loss





Frequency(MHZ)	2400	2500
VSWR	1.88	2.50
Return Loss(DB)	-10.27	-7.35

无源测试数据
Passive test data

ANT GAIN&Efficiency-WIFI2.4G

Passive Test For WIFI2.4												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHIS (%)	DHIS (%)	Max (dB)	Min (dB)	irectivit (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2400	25.25	-5.98	-0.69	-2.84	8.093	17.16	-0.69	-17.1	5.29	0	45.79	46.02
2410	25.23	-5.98	-0.53	-2.68	8.068	17.16	-0.53	-16.74	5.45	0	46	46.28
2420	24.39	-6.13	-0.49	-2.64	7.743	16.648	-0.49	-17.71	5.64	0	45.66	45.93
2430	24.12	-6.18	-0.42	-2.57	7.633	16.487	-0.42	-18.29	5.76	0	45.82	46.17
2440	24.72	-6.07	-0.19	-2.34	7.84	16.876	-0.19	-17.23	5.88	0	45.92	46.28
2450	25.46	-5.94	-0.04	-2.19	8.136	17.328	-0.04	-15.99	5.9	0	45.95	46.38
2460	25.83	-5.88	0.50	-2.12	8.335	17.49	0.03	-15.44	5.91	0	45.93	46.31
2470	25.6	-5.92	-0.01	-2.16	8.347	17.257	-0.01	-15	5.91	0	46.24	46.64
2480	25.78	-5.89	0.07	-2.08	8.469	17.309	0.07	-14.76	5.96	0	46.17	46.56
2490	26.3	-5.8	0.23	-1.92	8.726	17.573	0.23	-15.17	6.04	0	46.38	46.78
2500	24.91	-6.04	0.12	-2.03	8.32	16.591	0.12	-15.36	6.15	0	46.26	46.65

无源测试数据
Passive test data

ANT Direction of figure [redacted]