

规格承认书
SPECIFICATION FOR APPROVAL

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客 户
CUSTOMER: Asiatelco Technologies Co.
德明通讯（上海）股份有限公司

客 户 料 号
CUSTOMER P/N:

品 名
PART NAME: FT7200 WiFi&BLE Antenna

供 方 料 号
SUPPLIER P/N:

送样日期 Date: 送样数量 Q'TY: Pcs

客户确认 CUSTOMER APPROVED BY		
工程研发部	生产采购部	承认
ENGINEER R&D DEPT	BUSSINESS DEPT	APPROVED BY

供方确认 SUPPLIER SIGNATURE		
研发部	工程部	批准
ENGINEER R&D DEPT	ENGINEER R&D DEPT	APPROVAL

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1. RF Fixture Experiment

1.1 Test Setup

1.1.1 VNA Test Setup

VSWR and Return Loss measurements (S_{11}) were performed using an Keysight E5071C Network Analyzer. The isolation between antennas is also tested. The testing was performed with apparatus in free space.



1.1.2 Anechoic Chamber Test Setup

When we test Gain and Efficiency of the antenna, we will use the Multi-Probe OTA Measurement System 3D chamber.

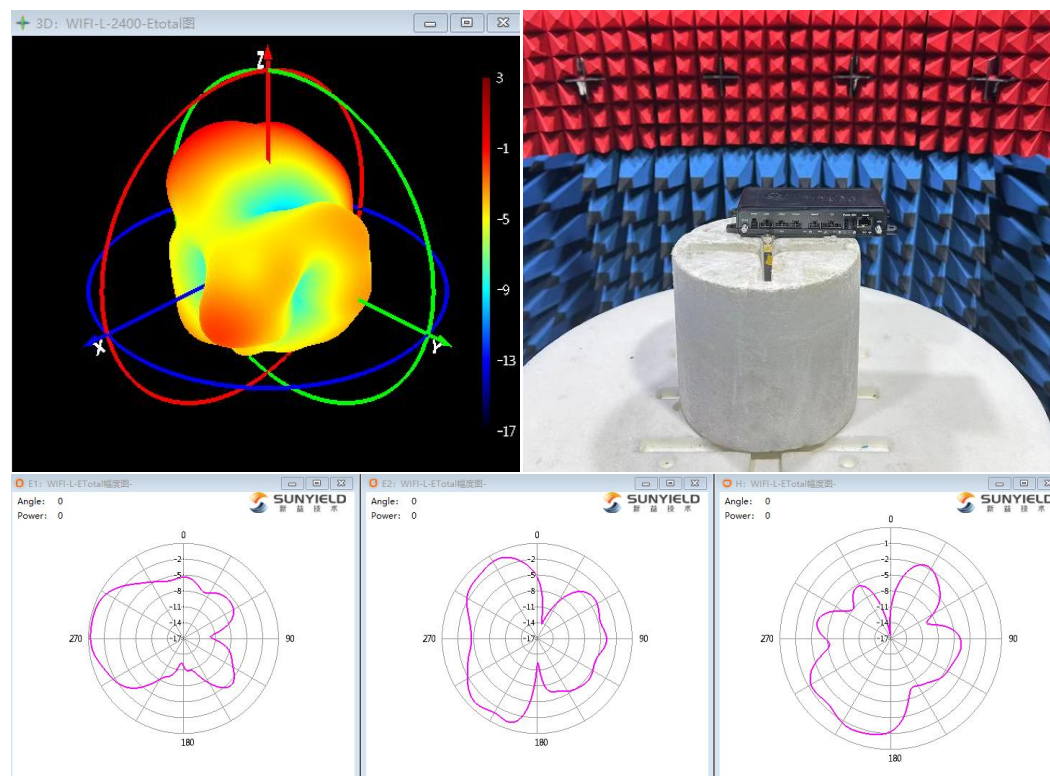
The chamber provides test frequency from 400MHz to 6GHz. The real test environment is showing as following picture



2. Test result

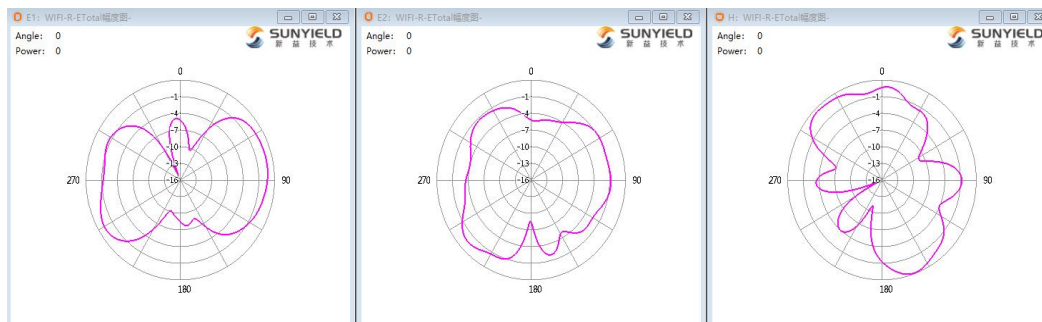
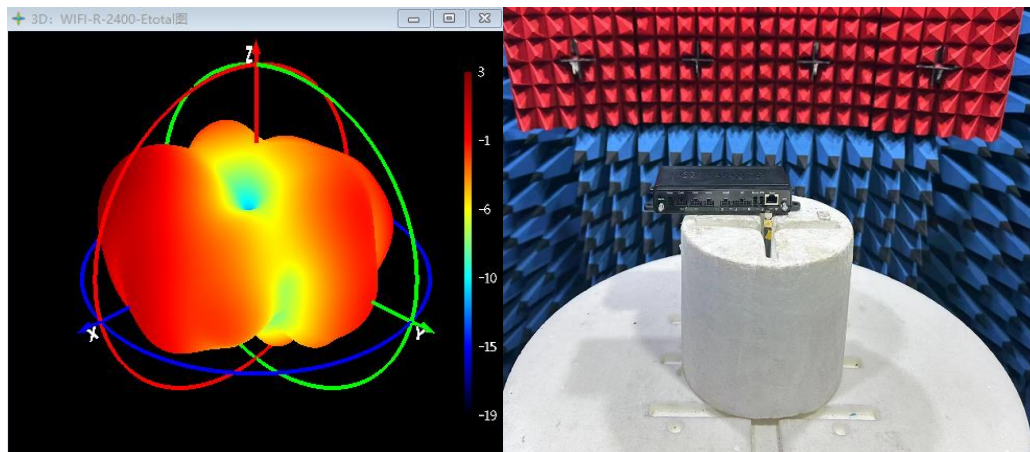
2.1 WiFi antenna test data

FT7200 WiFi Antenna			
频率(MHz)	增益(dBi)	效率(dB)	效率(%)
2400	2.03	-2.6	54.95
2410	1.47	-3.3	46.79
2420	1.23	-3.58	43.89
2430	1.83	-2.95	50.72
2440	1.81	-2.9	51.27
2450	1.14	-3.5	44.71
2460	0.98	-3.66	43.06
2470	1.09	-3.55	44.16
2480	1.45	-3.12	48.77
2490	1.41	-3.14	48.54
2500	0.34	-4.15	38.44



2.2 BLE antenna test data

FT7200 BLE Antenna			
频率(MHz)	增益(dBi)	效率(dB)	效率(%)
2400	2.4	-1.64	68.47
2410	2.23	-1.75	66.81
2420	2.32	-1.59	69.39
2430	2.4	-1.51	70.68
2440	1.99	-1.74	66.98
2450	1.67	-1.79	66.16
2460	1.71	-1.6	69.13
2470	1.86	-1.46	71.37
2480	2.27	-1.38	72.75
2490	2.4	-1.5	70.73
2500	2.52	-1.52	70.45



3. WIFI & BT antenna

3.1 WiFi & BT antenna photo

