



ONE PLUS ONE
Wireless Communication

Shenzhen OnePlusOne Wireless Communication Technology Co.,Ltd.

APPROVAL SHEET

Customer Name	Zhangyue
Project Name	SM11B
Customer P/N	
Specification	WIFI-2.4/5.8GHZ Antennas
Production Date	20250626

Approval				
OnePlusOne:				
	RF Check	ME Check	QC Check	Confirm By
Signature				
Date				
Customer:				
	EE Check	PM Check	QC Check	Confirm By
Signature				
Date				

Please return to us one copy of “APPROVAL SHEET” with your approved signatures

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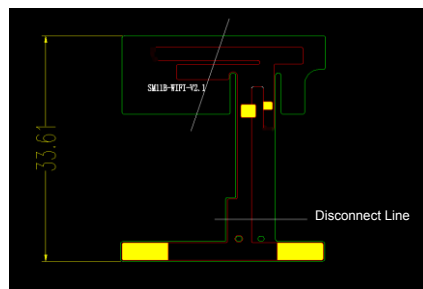
1 Antenna description

ANT	SM11B
FRE (MHZ)	2400-2500/5000-5800
TPYE	IFA
Antenna material	FPC+Cable

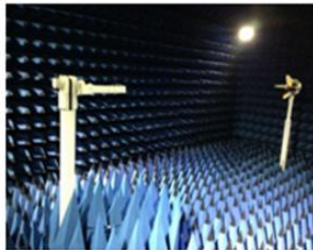
1.1 Part number

ANT	SM11B
SIZE (MM)	33.61*26.5
Printing	SM11B-WIFI-V2.1
Cable (MM)	4th generation IPEX0.81 coaxial cable L=262MM

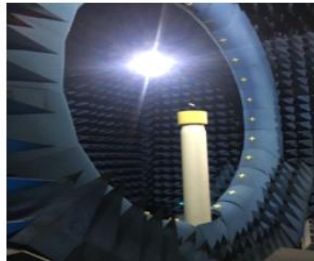
1.2 Antenna pictures



2 Testing equipment



ETS darkroom



SATIMO darkroom



Head and hand models



8820C Comprehensive tester



E5071B Network Analyzer

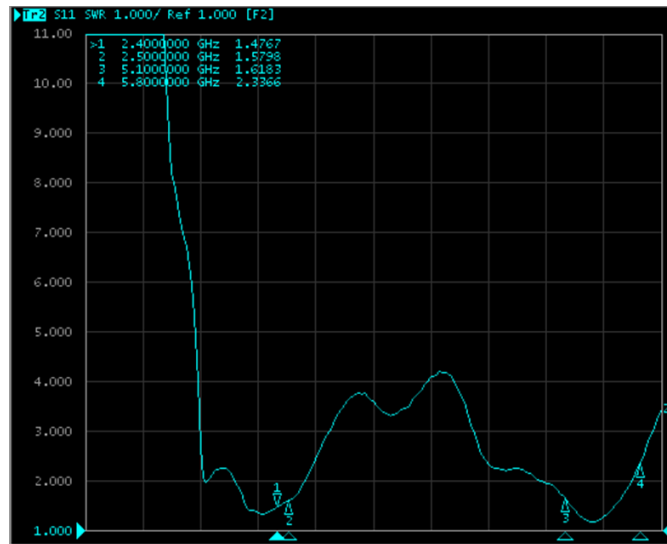


CMW 500 Comprehensive tester

Test system	Test environment	Active test	Passive test
SATIMO ETS	温度:22°C±2°C 湿度:50%±15%	2G/3G/4G/WIFI/BT	600MHZ-6GHZ

3 Test data

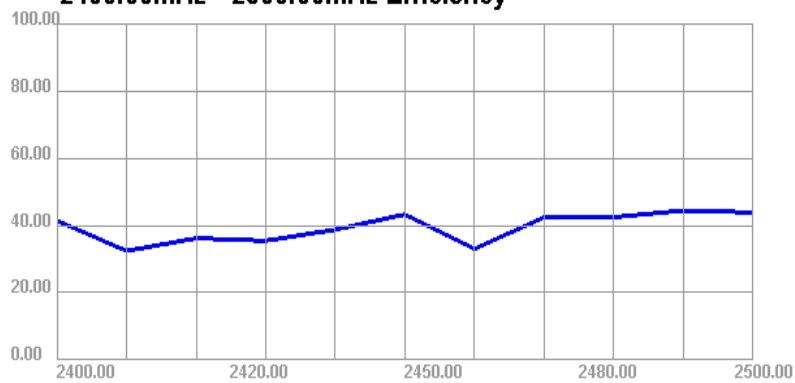
3.1 Passive



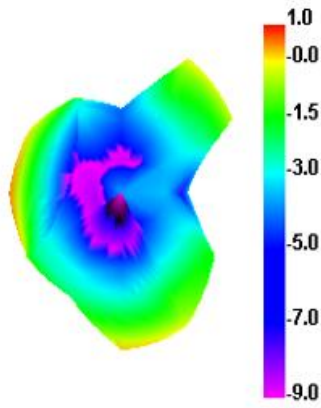
VSWR

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	31.43	-5.03	0.96	5000	16.9	-7.72	-1.13
2410	22.43	-6.49	-0.18	5100	30.02	-5.23	1.23
2420	26.2	-5.82	0.05	5200	30.64	-5.14	0.27
2430	25.45	-5.94	-0.17	5300	27.47	-5.61	-1.04
2440	28.77	-5.41	-0.01	5400	28.07	-5.52	-0.74
2450	33.29	-4.78	0.72	5500	27.45	-5.61	-1.02
2460	23.04	-6.38	-0.16	5600	33.2	-4.79	0.33
2470	32.4	-4.89	1.19	5700	32.61	-4.87	0.51
2480	32.48	-4.88	1.32	5800	32.68	-4.86	1.07
2490	34.47	-4.63	1.56	5900	26.79	-5.72	0.45
2500	33.89	-4.70	1.54	6000	23.2	-6.35	-6.26

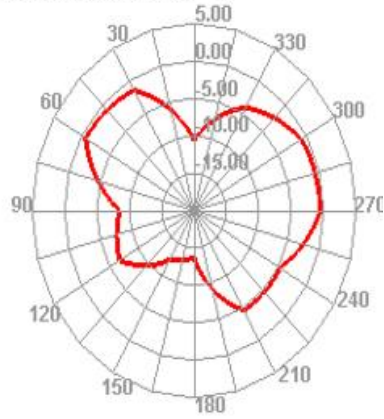
2400.00MHz - 2500.00MHz Efficiency



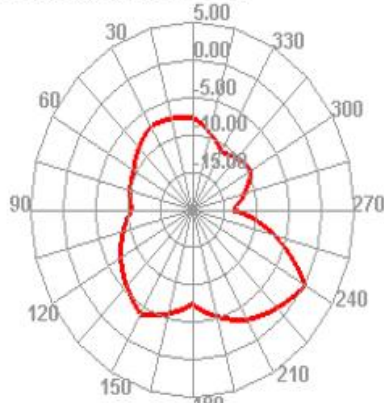
2400.000MHz



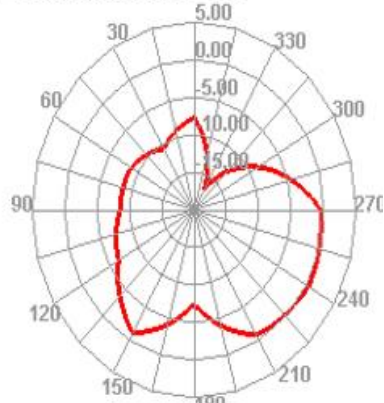
2400.000MHz H



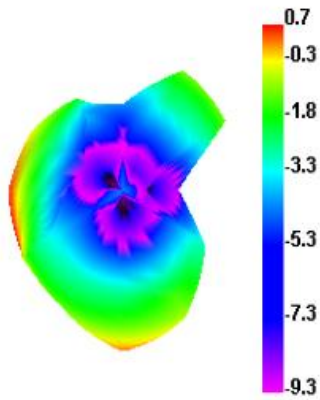
2400.000MHz E1



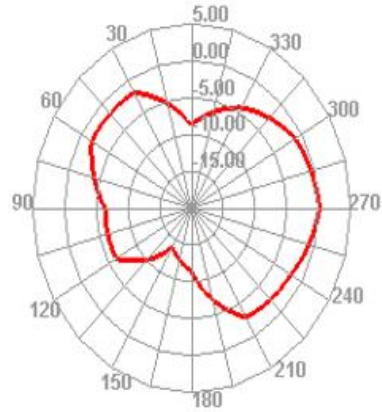
2400.000MHz E2



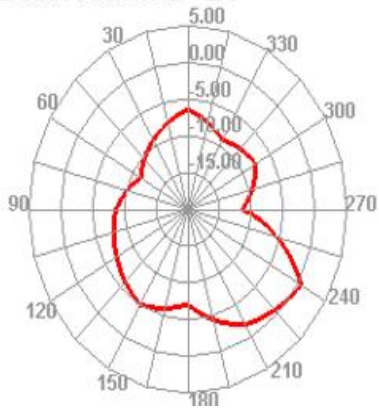
2450.000MHz



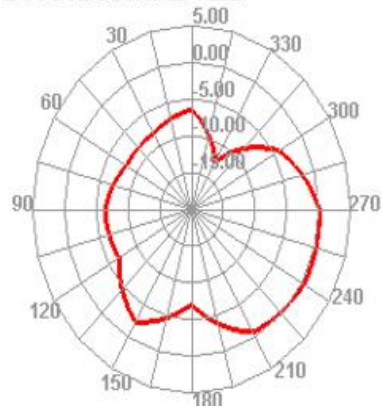
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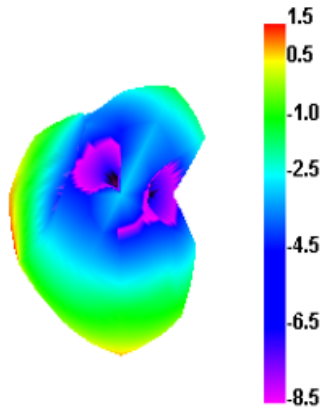
2450.000MHz E1



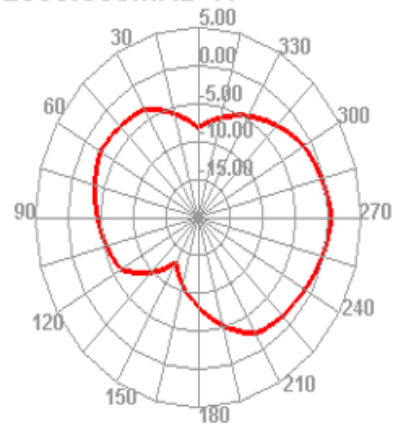
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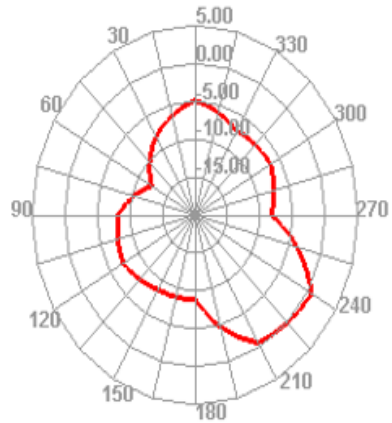
2500.000MHz



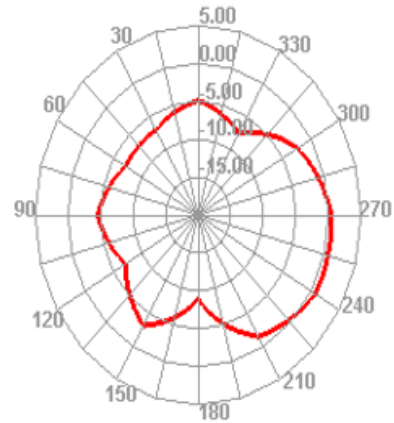
2500.000MHz H



2500.000MHz E1



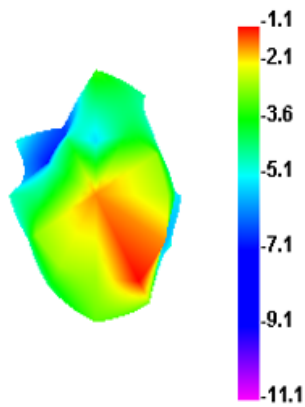
2500.000MHz E2



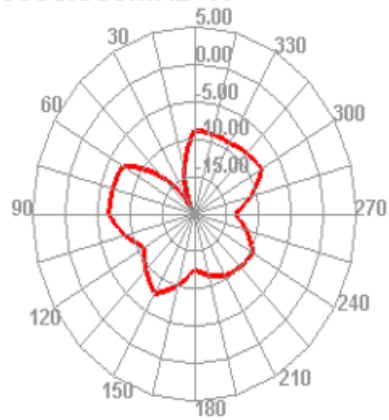
5000.00MHz - 6000.00MHz Gain



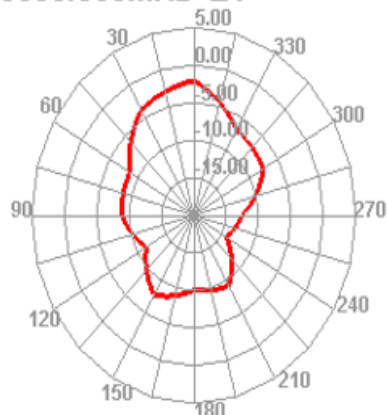
5000.000MHz



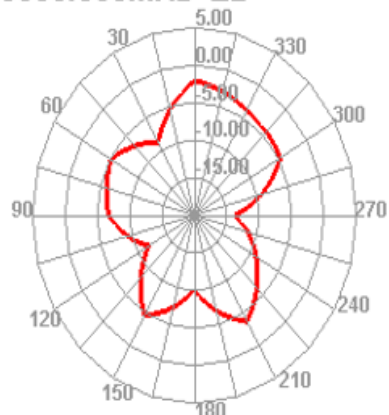
5000.000MHz H



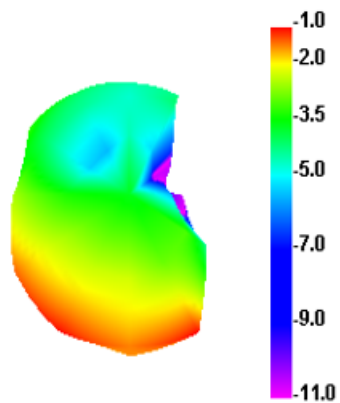
5000.000MHz E1



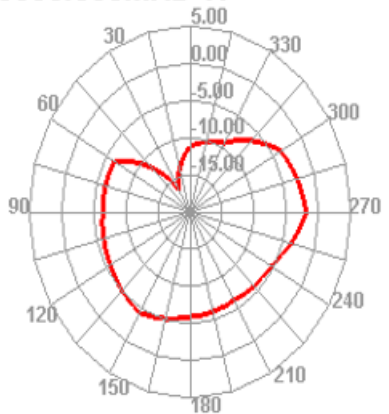
5000.000MHz E2



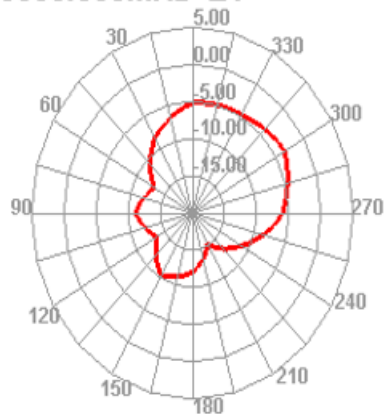
5500.000MHz



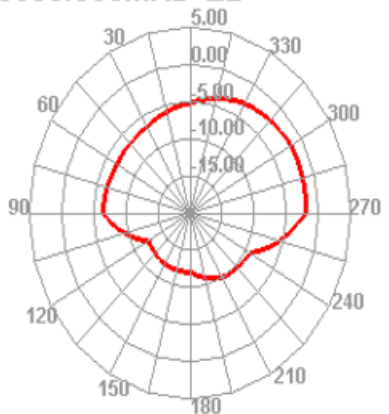
5500.000MHz H



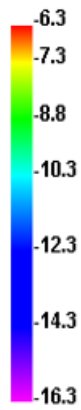
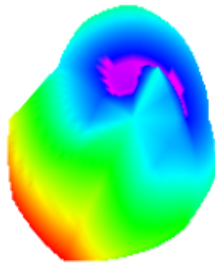
5500.000MHz E1



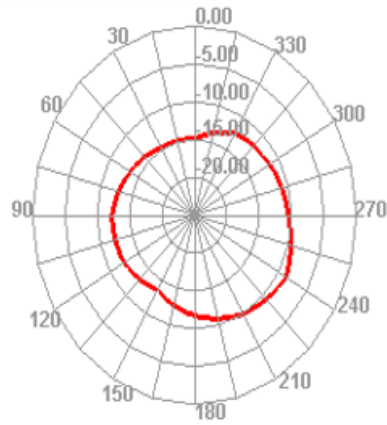
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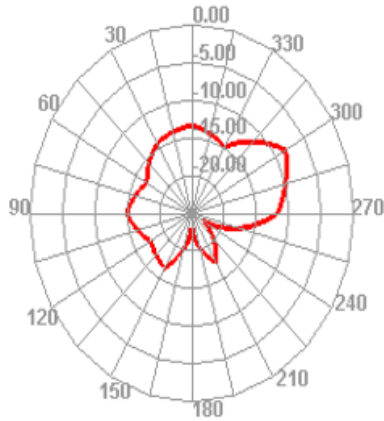
6000.000MHz



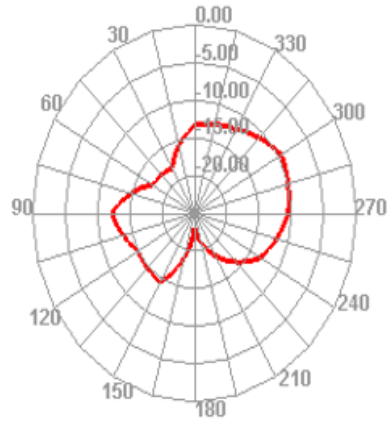
6000.000MHz H



6000.000MHz E1



6000.000MHz E2



4 Matching Circuit Description

No changes made

5 Environmental Treatment

6 Drawing

6.1 Dimensional drawin

