

Antenna Test Report

Index:

1. Overview
2. Revision History
3. Test Item & Equipment
4. Matching Circuit
5. S Parameter Test
6. Active Test
7. Conducted Emission Test
8. Environmental Processing

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M/N: M4 Pro

Project Name: M4 Pro
Author: YangYongCheng
Update: 2022-10-27

OverView

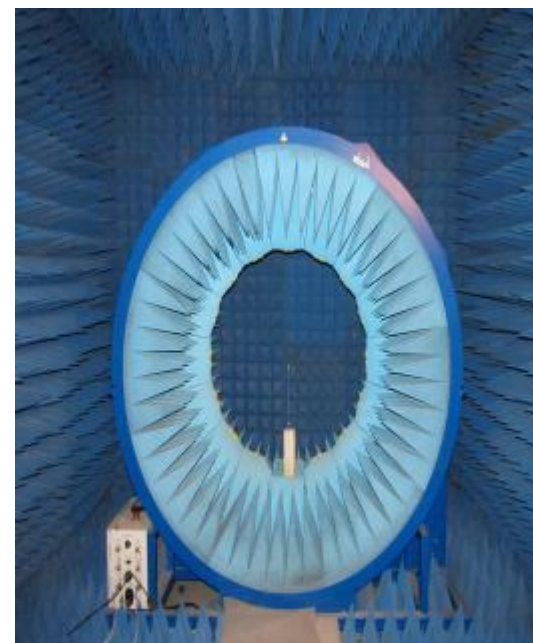
CUSTOMER NAME	MOKO TECHNOLOGY LIMITED	PROJECT NAME	M4
Items		Details	
• FREQUENCY		2400MHz-2500MHz	
• PROJECT TYPE			
• ANTENNA SPACE			
• FEED & GROUND PAD			
• SENSITIVE ELEMENTS			
• ANTENNA TYPE			
• PCB			
• OTHERS			

Revision History

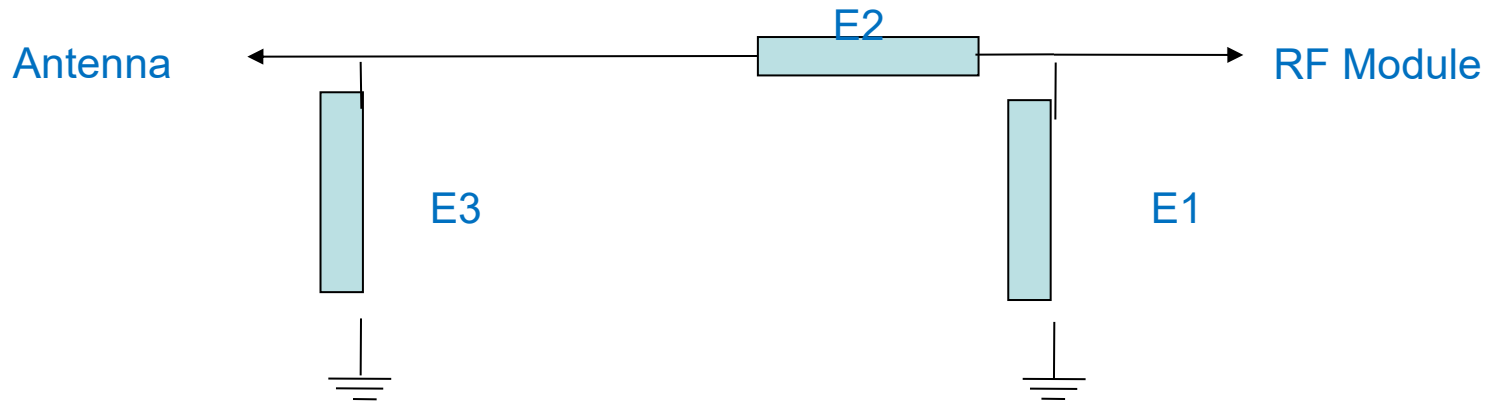
Date	Revision	Author	Description of changes
20221027	A	YangYongCheng	Passive Antenna Test

Test Item & Equipment

List	Test Item	Equipment	
1.S Parameter	VSWR, Return Loss	Agilent VNA	
2.Active Test	TRP, TIS	Agilent 8960	RayZone1800
3.Passive Test	Gain, Efficiency, Pattern	Agilent E5071C	

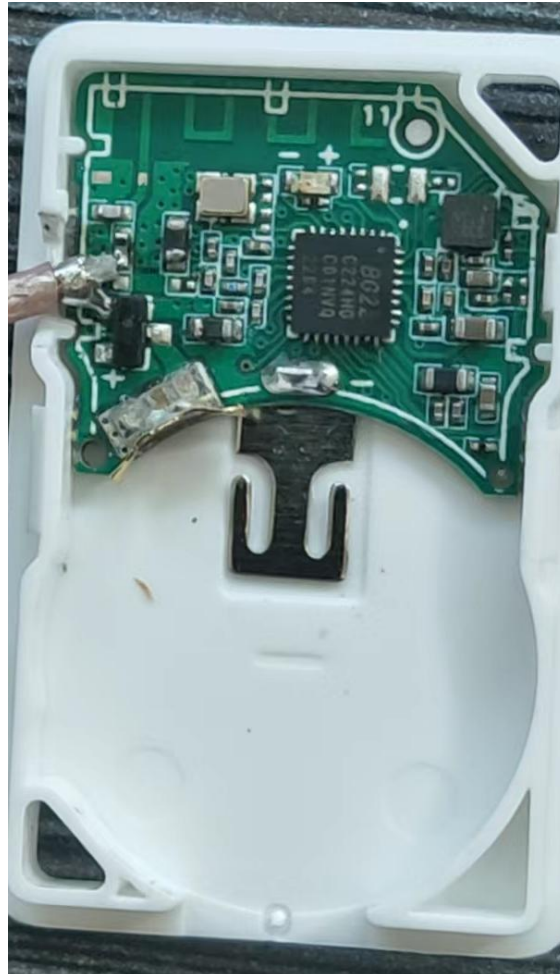


Matching Circuit



Element	Value
E1(0402)	NC
E2(0402)	4.7NH
E3(0402)	0.3PF

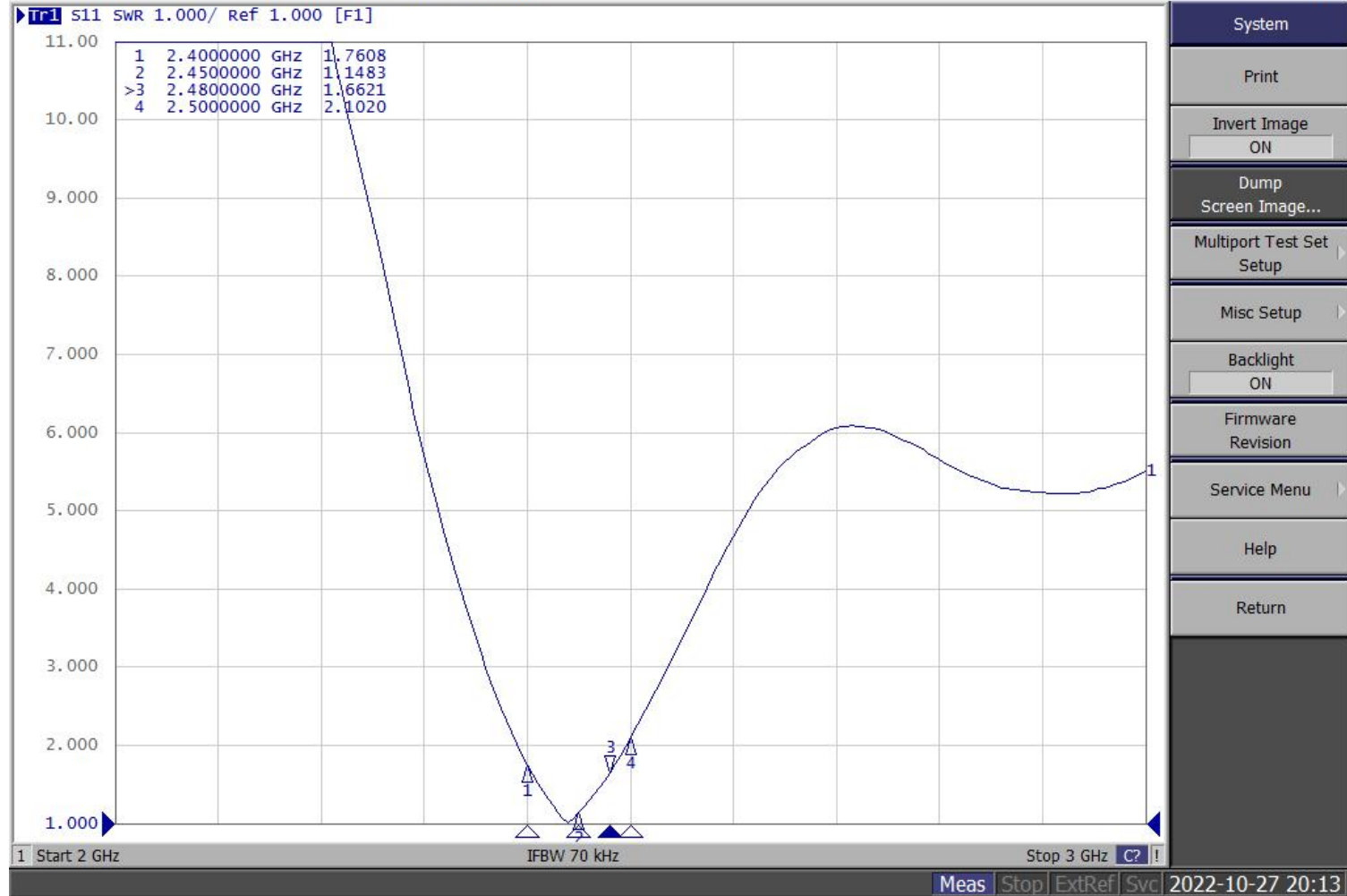
Antenna



VSWR

E5071C Network Analyzer

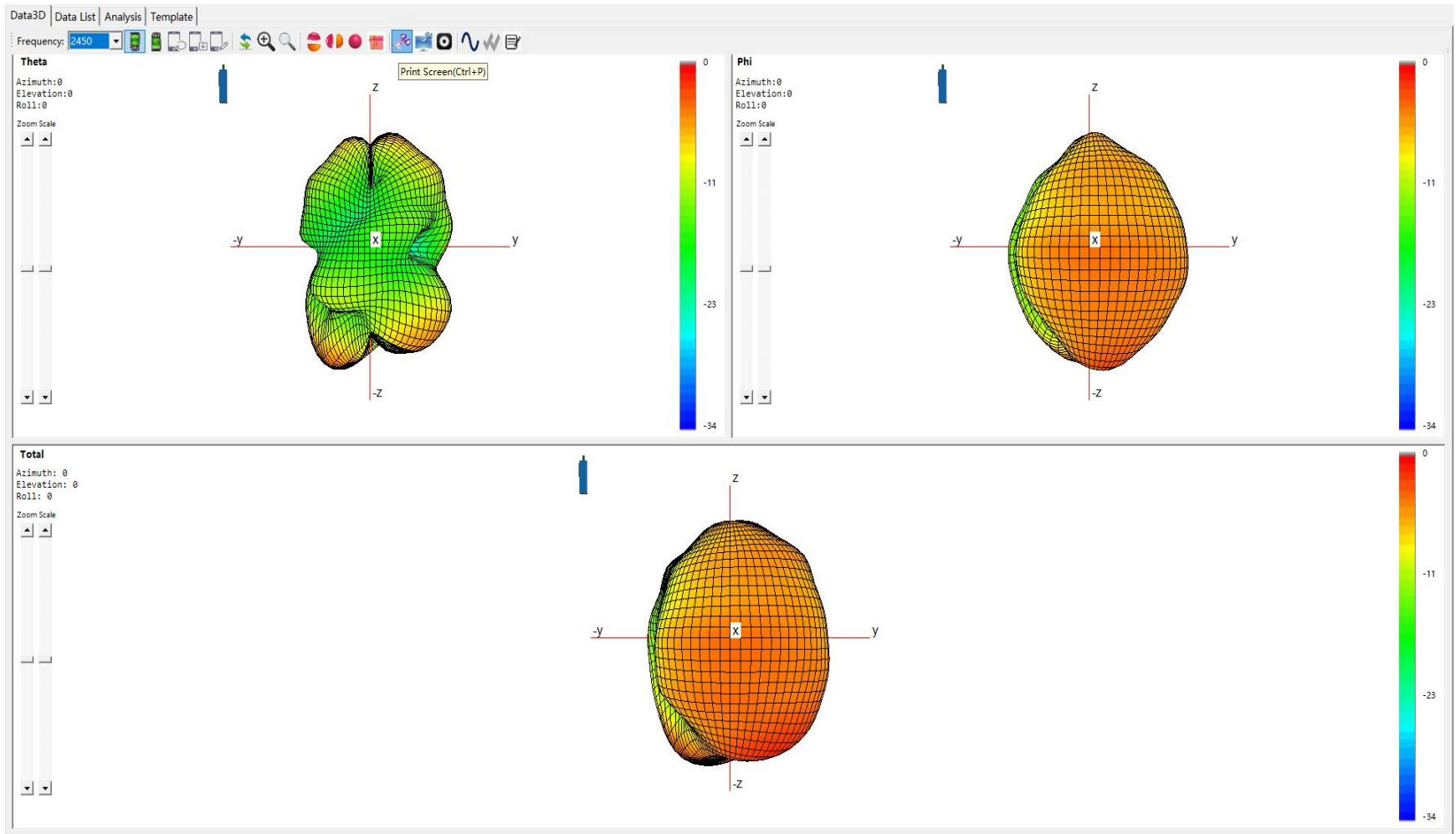
1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State



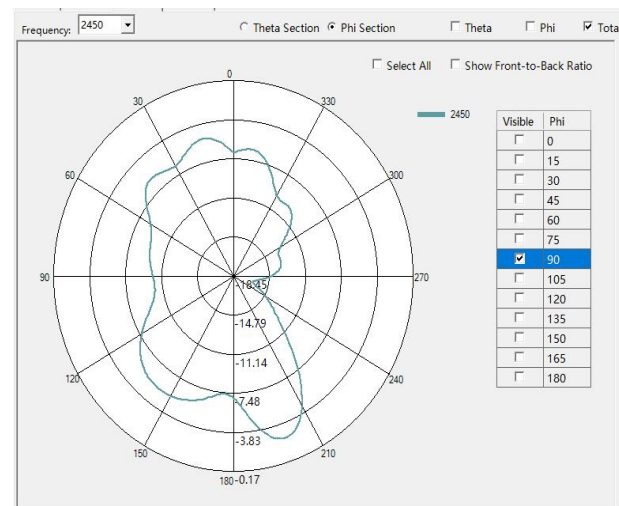
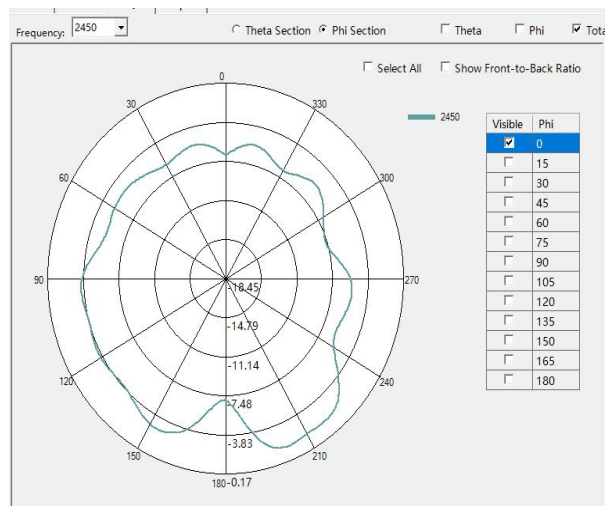
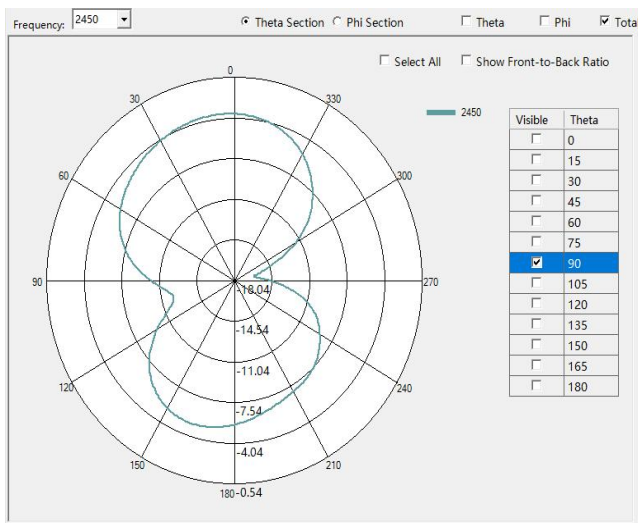
Passive Antenna Test

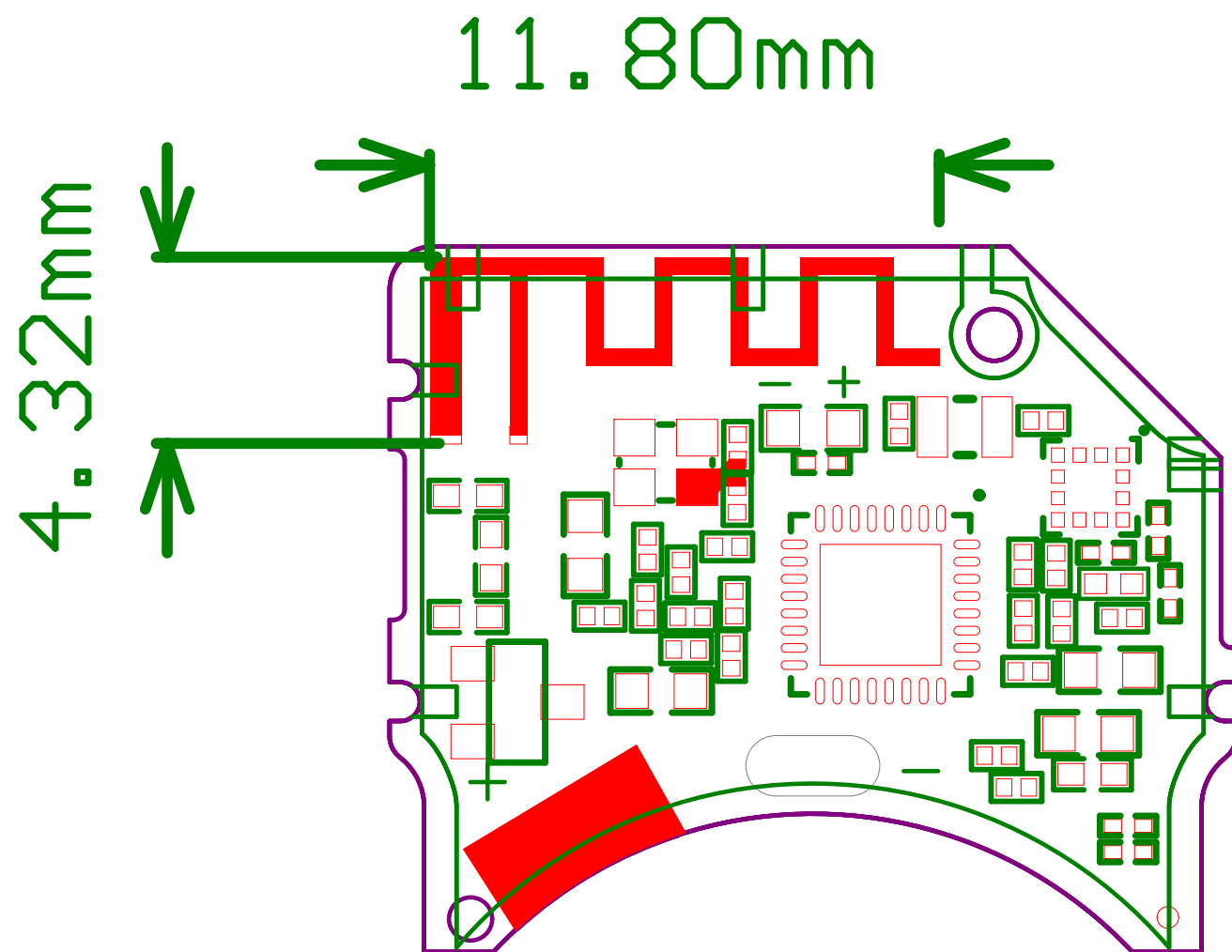
Freq (MHz)	Gain (dBi)	Efficiency (%)
2400	0.52	29.69
2410	0.69	30.62
2420	0.27	28.92
2430	0.07	28.20
2440	-0.29	26.61
2450	-0.58	25.04
2460	-0.55	25.09
2470	-0.55	24.92
2480	-0.62	24.07
2490	-0.56	24.07
2500	-0.62	23.85

3D Antenna Radiation Pattern (2450MHz)



2D Antenna Radiation Pattern (2450MHz)





2.4G_4.3*11.8