

Product Specification

Customer Name: Heilongjiang Huida Technology Co., Ltd

Project Name: 2.4G&5.8G PCB

Product Spec: ZK-2458G-1.37-MMCX-JW-100

REV: V1.0

Date: 2024.12.04

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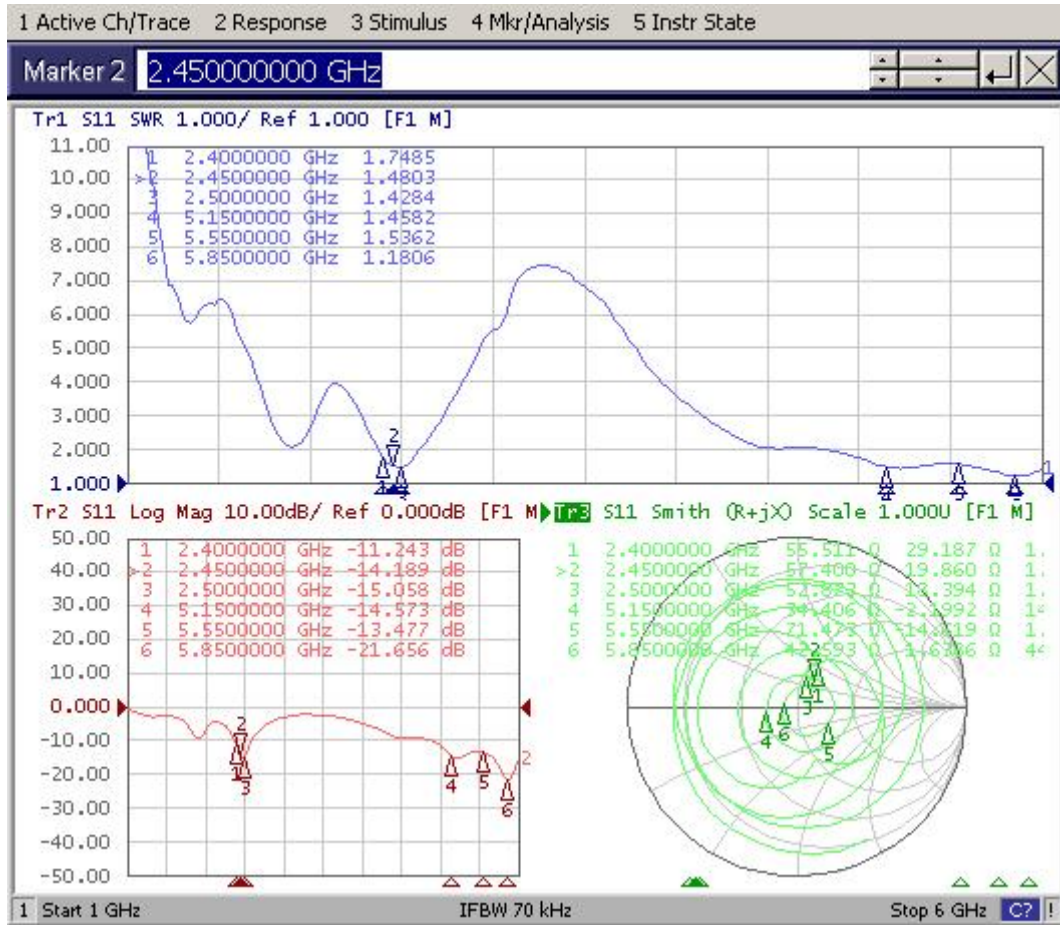
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Electrical Performance Index

Electrical Specifications	
2400-2500/5100-5850MHZ	
VSWR	≤ 2.0
GAIN	2.4G $\leq$ 3.46 DBI 5.8G $\leq$ 4.05 DBI
Radiation	OMNI
Polarizatin	LINEAR
Input Impedance	50 Ω
Mechanical Specifications	
Input connector	MMCX-JW
Antenna materia	PCB
Working Temperature	-30 $^{\circ}$ C $\sim$ +80 $^{\circ}$ C
Working Humidity	40 $\sim$ 85%

Test report

1. Antenna standing wave diagram

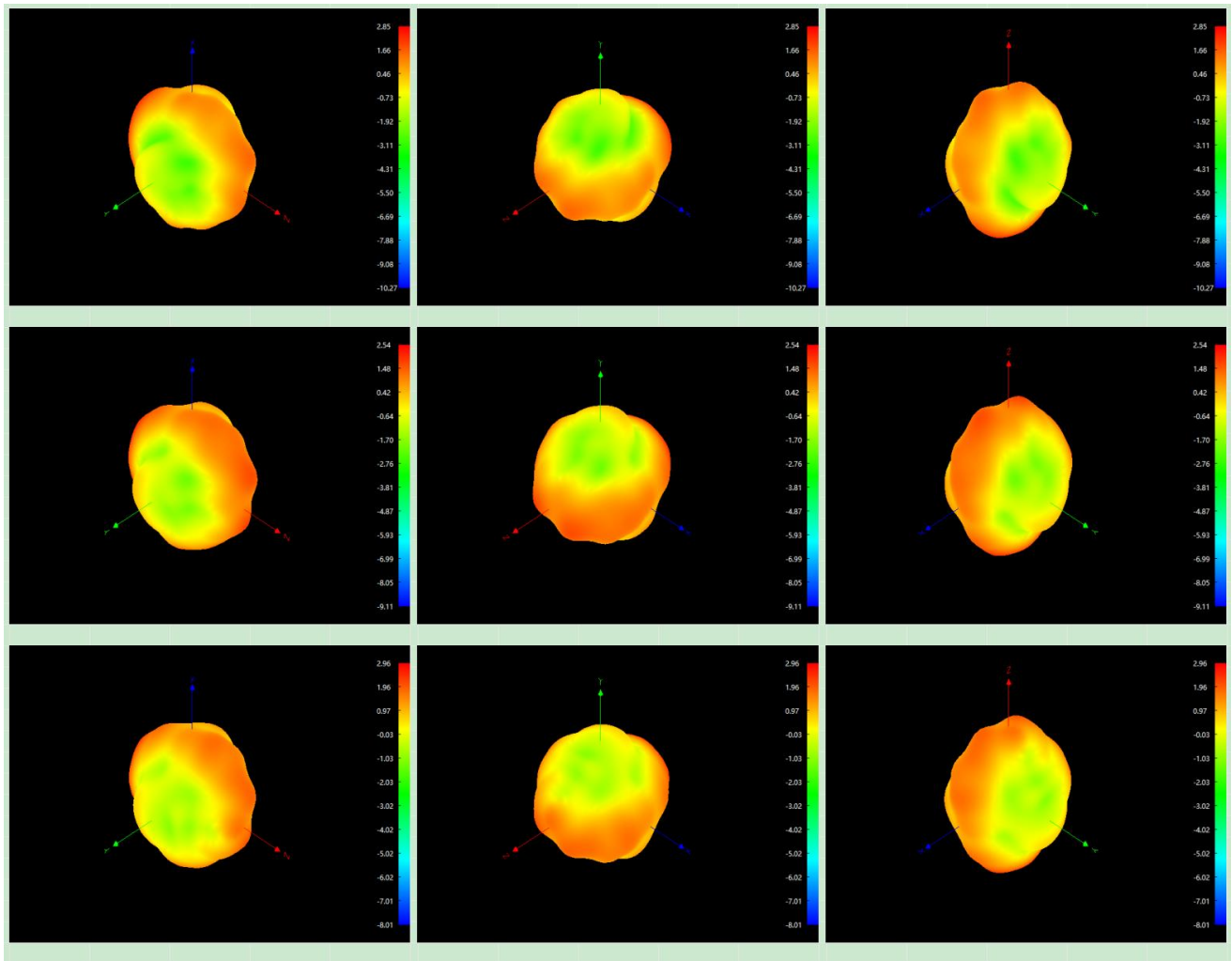


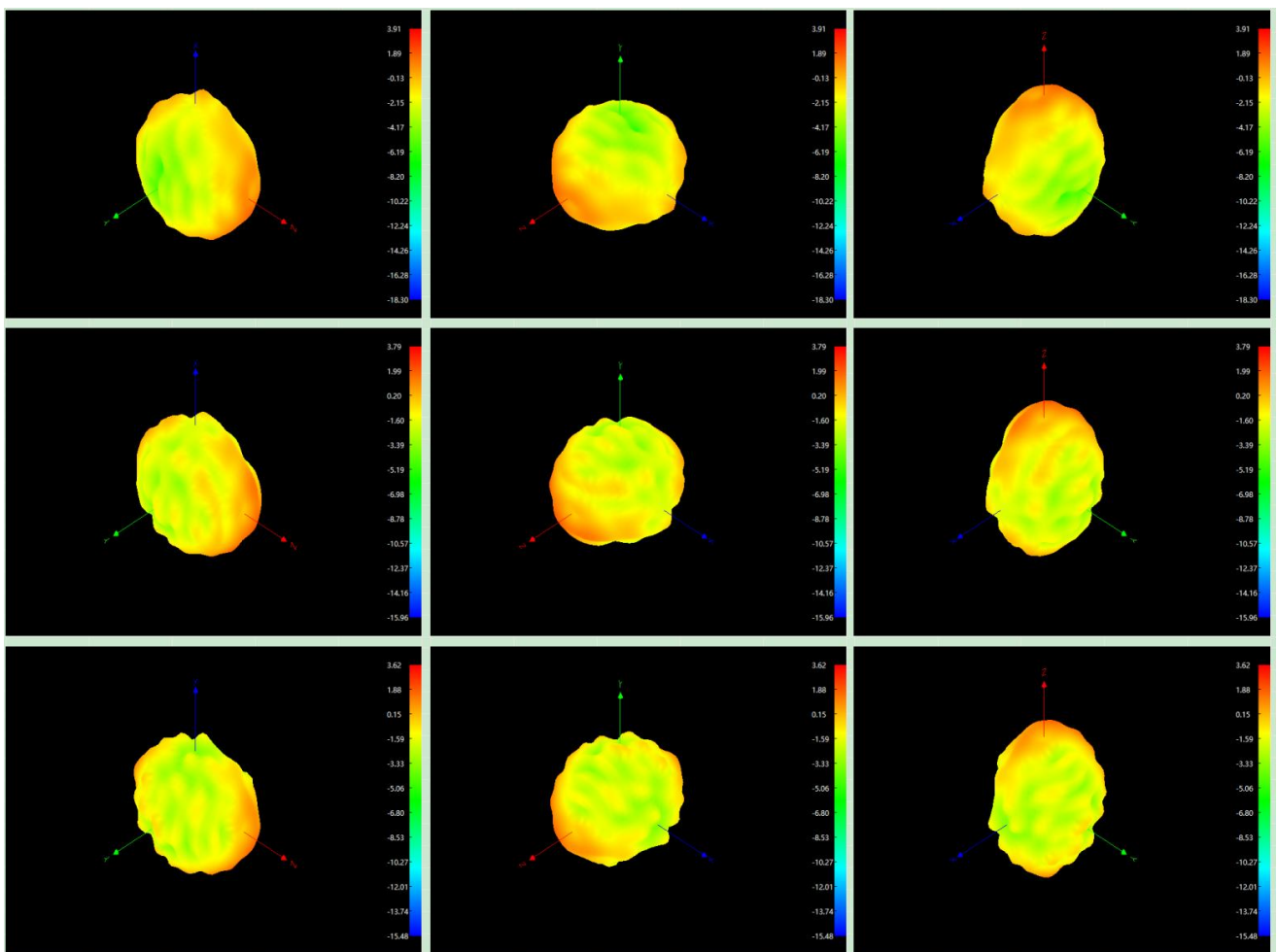
2. Antenna efficiency

Frequency/MHz	Efficiency / %	MaxGain/dBi
2400	55.98	2.85
2405	54.95	2.61
2410	52.48	2.33
2415	56.75	2.92
2420	57.68	3.09
2425	57.15	2.93
2430	56.62	2.52
2435	56.89	2.7
2440	59.02	2.81
2445	61.09	3.03
2450	59.43	2.54
2455	56.75	2.5
2460	60.81	3.03
2465	62.23	3.46
2470	62.23	3.16
2475	59.29	2.85
2480	60.95	3.05
2485	61.38	3.35
2490	64.12	3.43
2495	58.88	2.8
2500	57.94	2.96
5000	73.62	3.29
5050	70.96	3.08

5100	70.31	3.49
5150	73.62	3.91
5200	74.82	3.75
5250	72.61	3.79
5300	72.44	4.02
5350	74.47	4.01
5400	76.03	4.05
5450	73.96	3.94
5500	70.96	3.79
5550	74.13	3.9
5600	72.61	3.87
5650	70.31	3.41
5700	68.23	3.49
5750	67.14	3.65
5800	63.24	3.38
5850	63.24	3.62
5900	64.86	4
5950	63.1	3.69
6000	60.95	3.32

3. Antenna Pattern





Testing Equipment and Principle

1. Test equipment:

Network Analyzers :

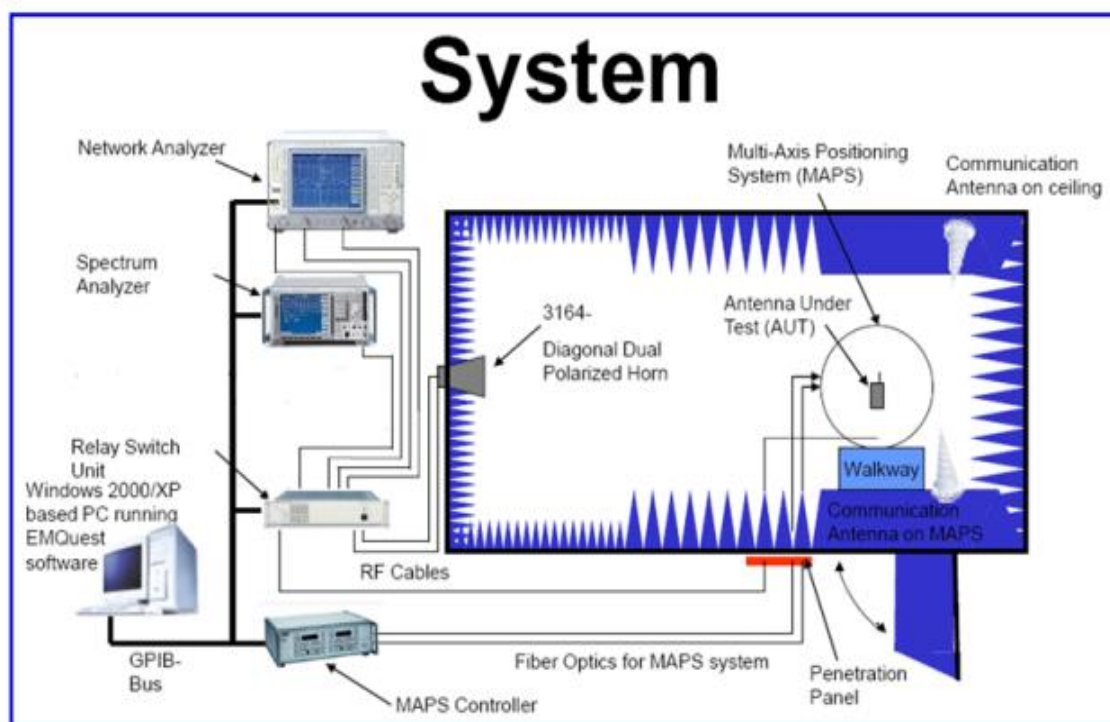
Agilent 8753D 5071B

Communications Test Set:

Agilent E5515C CMW500 8820C

3D Chamber Test System:

2. Testing Principles:



Product Drawing

