



Certificate of Acknowledgment

Customer : 茂傑

Product : 5G External Antenna Black Plastic
Housing 1.13 Black Cable L=75mm IPEX 1

Model :

Part Number : NF2-2Z0083-RS

Written By :

Issued Date : 2026/01/08

CUSTOMER

ENGINEER R&D DEPT	QUALITY DEPT	APPROVED

Free Walk

WRITTEN BY	ENGINEER R&D DEPT	APPROVED
shali. Chen	Bing. Yang	zhiyang. Tan

address:

221 No. 179, Section 1, Datong Road, Xizhi District, New Taipei City

File Change History

Model							
Index	Change Type	Change Type	Change Date	Description of Changes	Revision	Version	Remarks

Number:QR-NF-001

Version : A1



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Specification Sheet

Main technical specification	
Frequency Range (MHz)	5150-5850
Impedance	50
Peak Gain(dBi)	5 ± 1
VSWR	≤ 2.0
Polarization	Linear, polarization
Average efficiency (%)	84%
Connector Type	IPXE 1
Physical Properties	
Cable	black
Packaging	PE bag
Storage Temp	-40°C~+70°C
Operating Temp	-10°C~+60°C



Test Equipment & Conditions

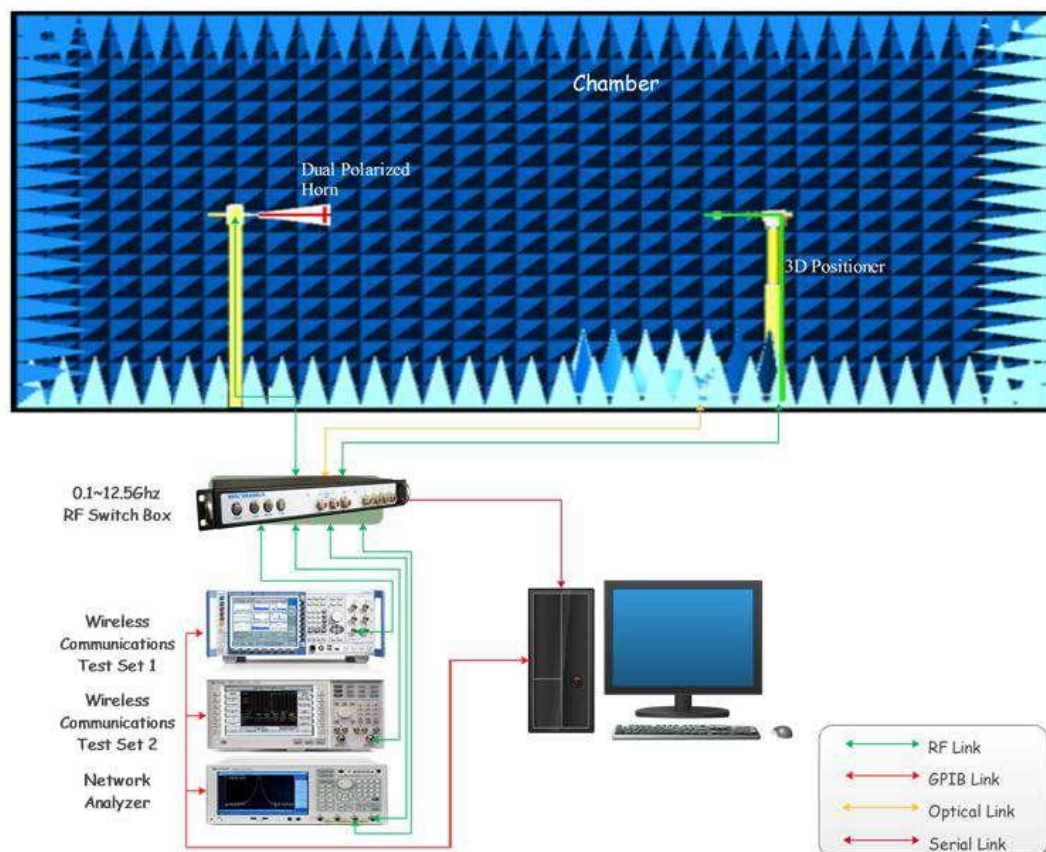
1. Network Analyzers :

Agilent 5071C

2. Communications Test Set:

Rohde & Schwarz CWM500

3. 3D Chamber Test System

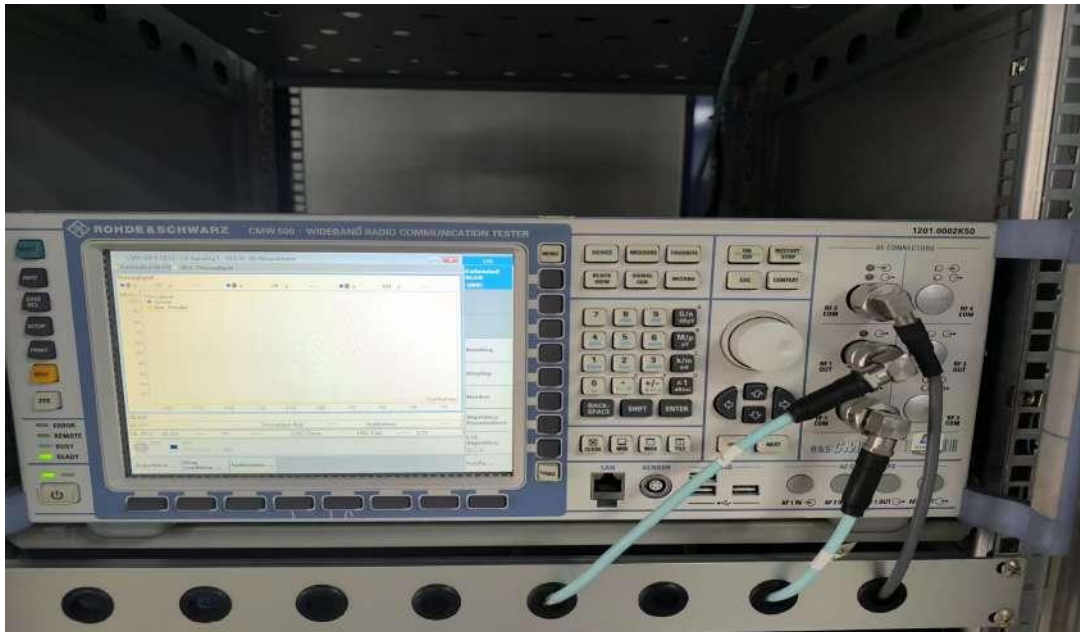




Laboratory

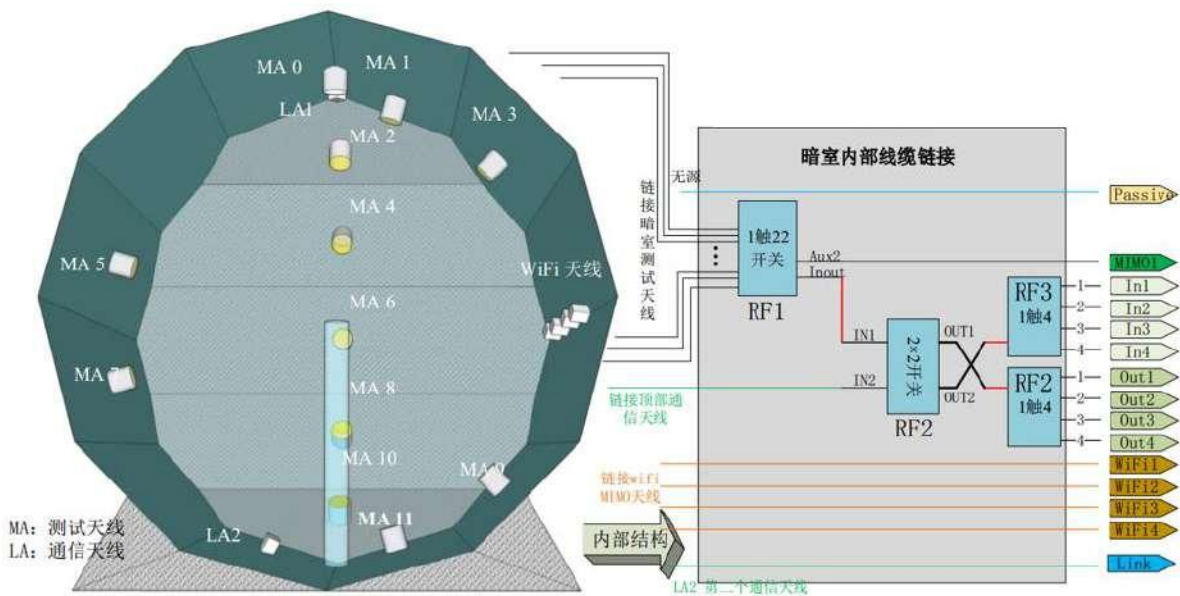
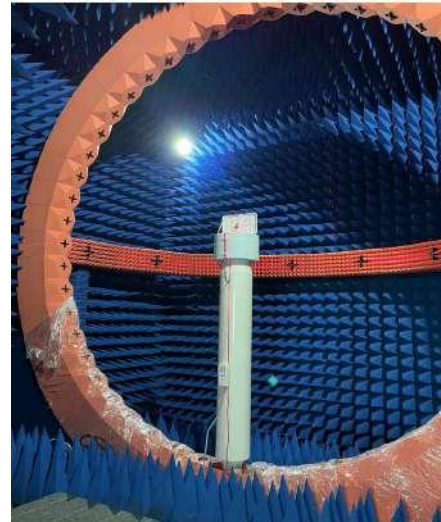


CMW500



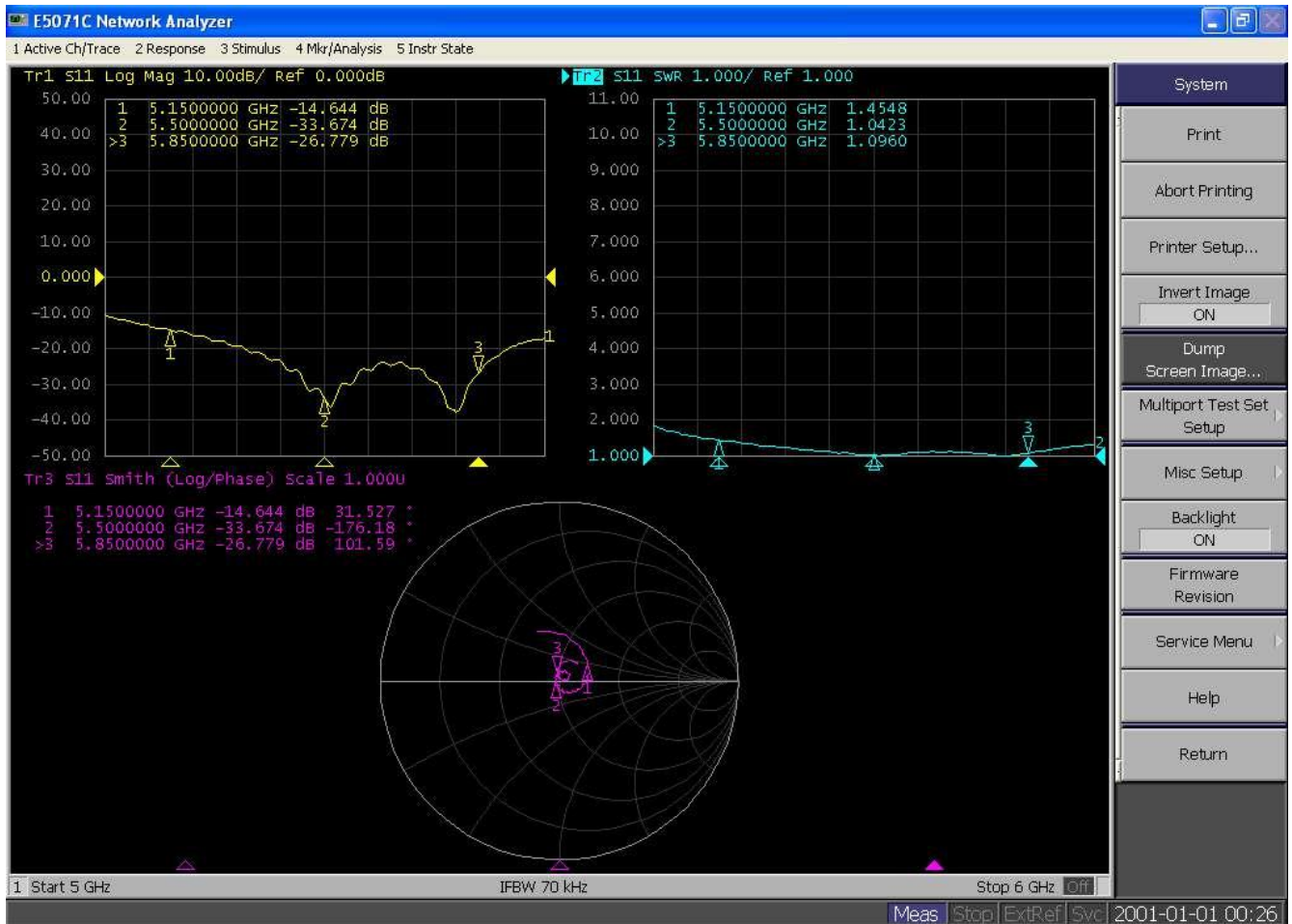


Test the darkroom





5.8G S Parameter



Test: *bing Yang*

Review: *zhi Yung. Tan*



5.8G Efficiency&Gain

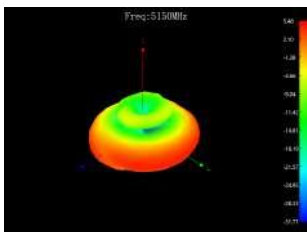
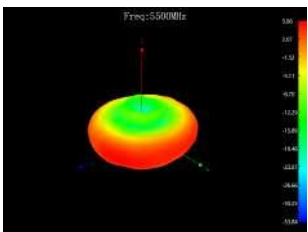
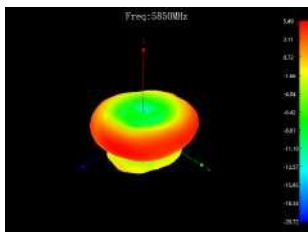
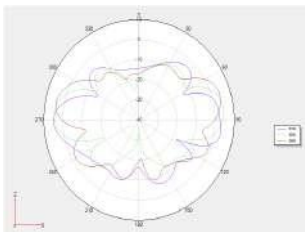
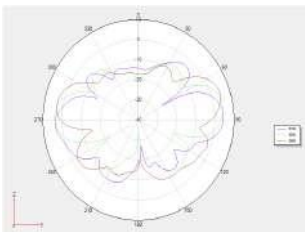
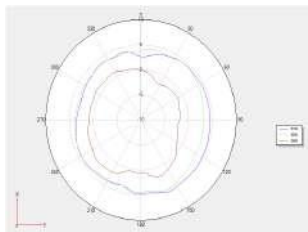
Frequency/Mhz	Efficiency / %	MaxGain/dBi
5150	82.72	5.48
5200	85.21	5.33
5250	84.2	5.4
5300	85.6	5.37
5350	86.1	5.49
5400	84.57	5.4
5450	85.34	5.32
5500	84.33	5.66
5550	82.95	5.45
5600	85.23	5.39
5650	83.7	5.49
5700	81.29	5.39
5750	82.09	5.43
5800	85.34	5.5
5850	85.46	5.49

Test: *Peng Yang*

Review: *Zhiyung Tan*



5.8G Directional map

Channel(MHz) 5 1 5 0	Channel(MHz) 5 5 0 0	Channel(MHz) 5 8 5 0
ZX-Plane Total	ZX-Plane Total	ZX-Plane Total
		
Phi 02D	Phi 90 2D	Theta 90 2D
		

Test: *peng Yang*

Review: *zhi Yung. Tan*

