



# AS Antenna Check Sheet



**Revision History:**

Version	Date	Change Description
V01	2022 Dec.	New Release
V02	2022 Dec.	Add approval data
V03	2023 Feb.	Change design code
V04	2023 Jun.	Add FEED and GND



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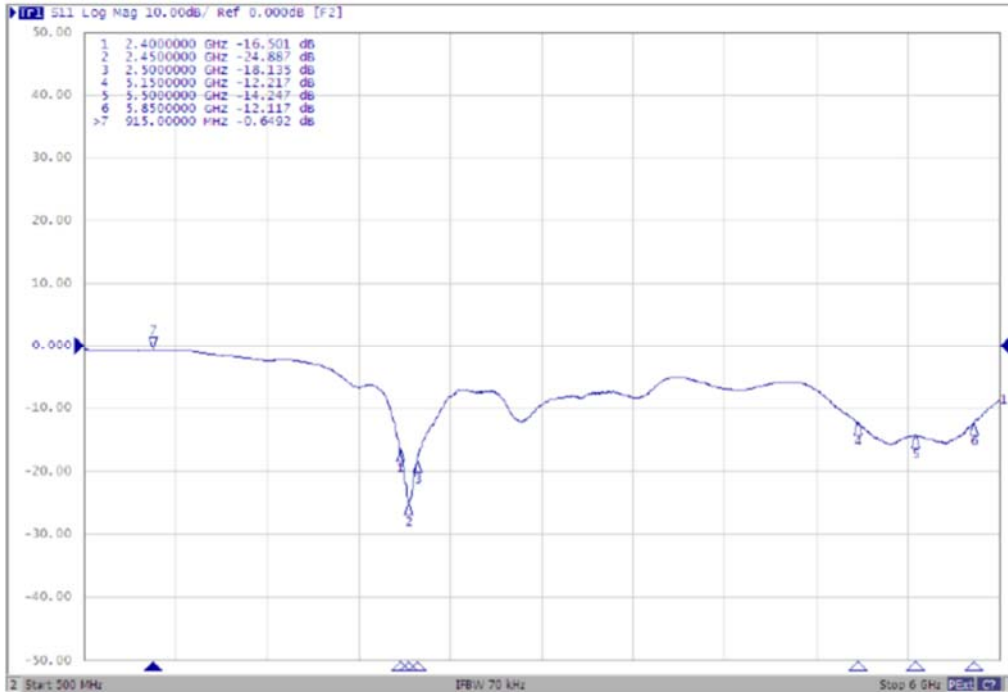


**Antenna Specification**

Ant .	Antenna Brand	Antenna. model	Antenna type	Antenna Gain (dBi)	Frequency Range (MHz)	Connector type	Cable length (cm)	Cable Loss	Remark
#1	PSA	RFMTA 160900N NLB001	PIFA	2.81dBi@2G 4.99 dBi @5G	2400~2500 5150~5850	X	X	X	X

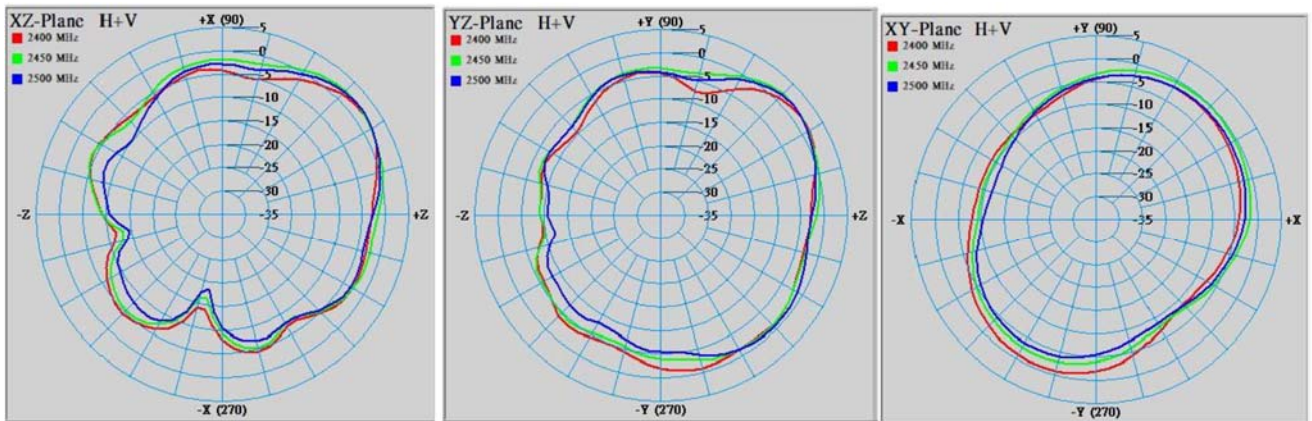
### Test Result:

Return Loss



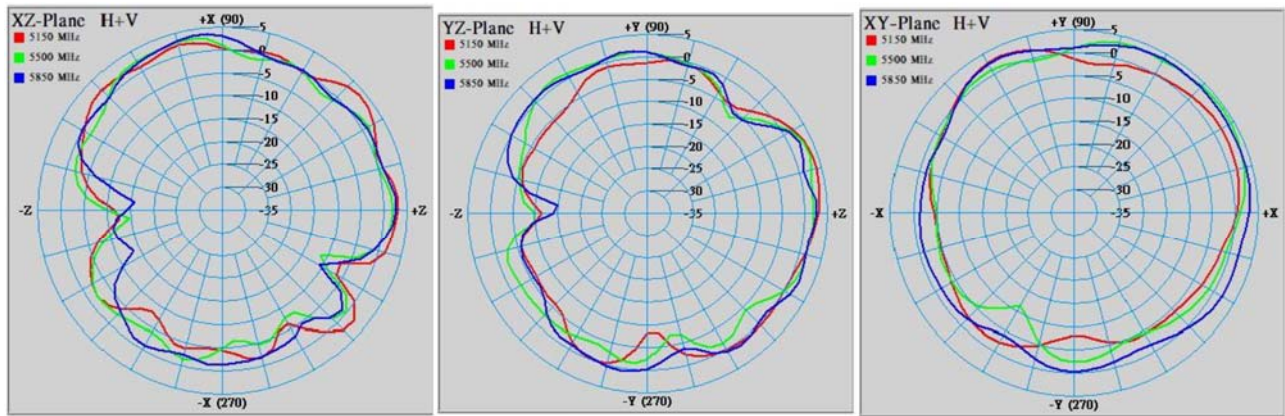
### 2D Radiation Patterns:

2.4G



Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
2400	2.08	-3.73	1.77	-3.20	-0.83	-4.12
2450	2.40	-2.98	2.00	-2.79	-0.22	-3.84
2500	2.45	-3.80	1.93	-3.30	-1.38	-4.91

5G



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
5150	3.84	-0.26	3.83	-1.19	2.75	-1.14
5500	3.09	-1.05	3.43	-0.97	4.39	-0.02
5850	3.61	-0.67	2.68	-0.51	3.80	1.07

Antenna Gain Table:

Frequency(MHz)	Ant1(dBi)
2400	2.48
2455	2.8
2500	2.81

Frequency(MHz)	Ant1(dBi)
5150	4.21
5450	4.99
5500	4.61
5850	4.1

Antenna Peakgain ( $\theta, \phi$ ):

2.81 dBi @ 2500MHz ( $30^\circ, 40^\circ$ )

4.99 dBi @ 5450MHz ( $32^\circ, 96^\circ$ )

Antenna Vendor information:

Walsin Technology Corporation

Address: 566-1, Ko-Shi Road , Yang-Mei, Tao-Yuan, 32668, Taiwan

 **華新科技股份有限公司**  
WALSIN TECHNOLOGY CORPORATION

Antenna Vendor : **Walsin Technology Corporation**

Test date: 2022/11/25

Test Engineer: Sam

Address of test site: 566-1, Ko-Shi Road , Yang-Mei, Tao-Yuan, 32668, Taiwan

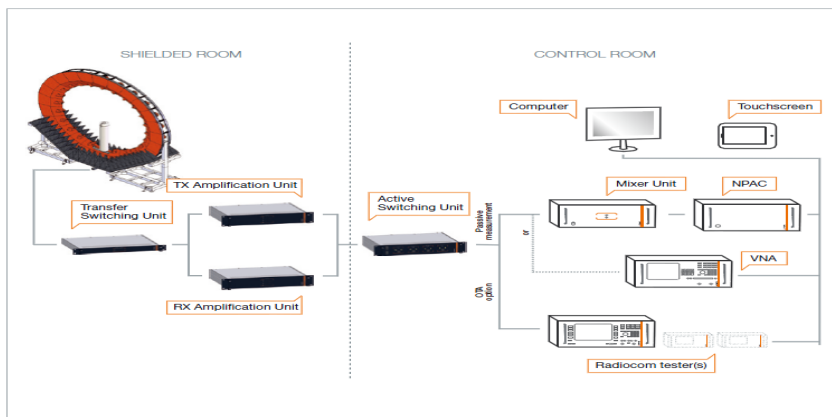
Measurement Setup:

Reflection Coefficient Measurement:

-Instrument : E5071C

-Setup:

System overview



Pattern Measurement:

-Chamber : Satimo

-Test Program: SPM V15

-Setup Photo(Appendix A)

Test instrument calibration information:

Vendor	Model	Calibrated Date	Calibrated Until
Satimo	SG24	2022/11/29	2023/11/29
Keysight Network Analyzer	E5071C	2020/3/3	2023/3/3