



# SP Antenna Check Sheet



**Revision History:**

<b>Version</b>	<b>Date</b>	<b>Change Description</b>
<b>1.0</b>	<b>2022/12/14</b>	<b>New Release</b>



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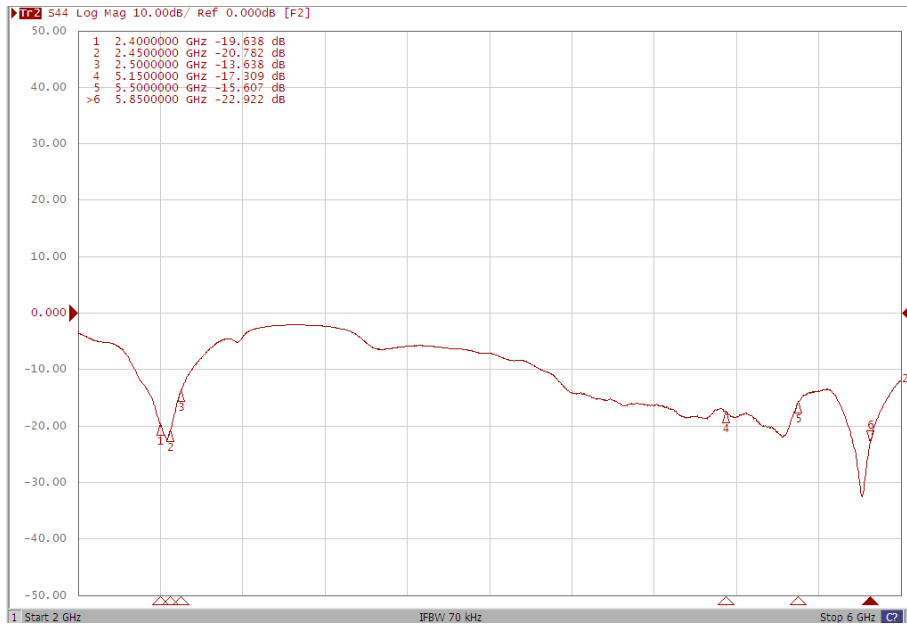


**Antenna Specification**

Ant .	Antenna Brand	Antenna. model	Antenna type	Antenna Gain (dBi)	Frequency Range (MHz)	Connector type	Cable length (cm)	Cable Loss	Remark
#1	PSA	RFPCA2 21804IM LB303	Dipole	2.43@2G 3.48@5G	2400~2500 5150~5850	IPEX	4cm	X	X

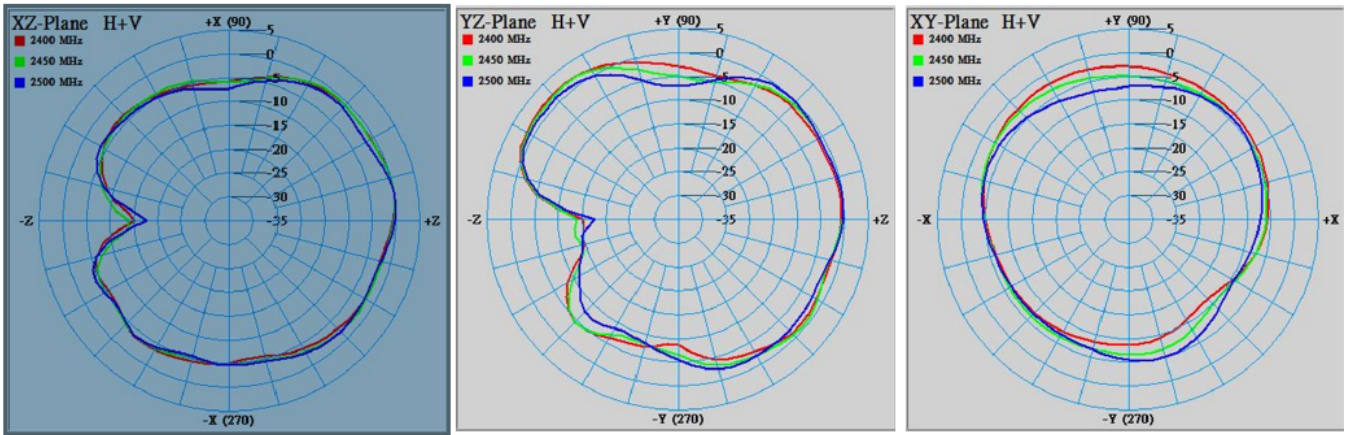
### Test Result:

Return Loss



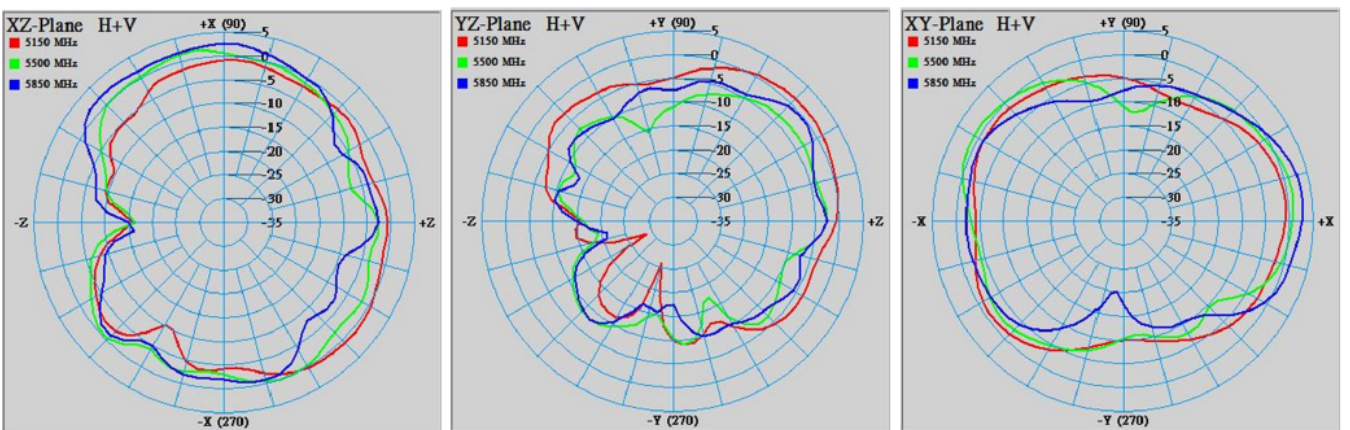
## 2D Radiation Patterns:

### 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	0.12	-3.46	2.00	-2.17	-2.13	-5.05
2450	0.10	-3.30	1.86	-2.23	-2.73	-5.35
2500	0.06	-3.62	0.96	-2.62	-3.67	-5.99

### 5G



Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
5150	0.87	-2.56	1.41	-3.75	-0.62	-3.26
5500	1.54	-2.08	-2.53	-7.76	1.11	-2.73
5850	2.52	-1.83	-0.26	-6.69	3.03	-2.60



3D Antenna Gain Table:

Frequency(MHz)	Ant1(dBi)
2400	2.43
2455	2.21
2500	1.43

Frequency(MHz)	Ant1(dBi)
5150	2.25
5500	2.13
5750	3.48
5925	3.44

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: 2022/03/30

Test Engineer: Sam

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

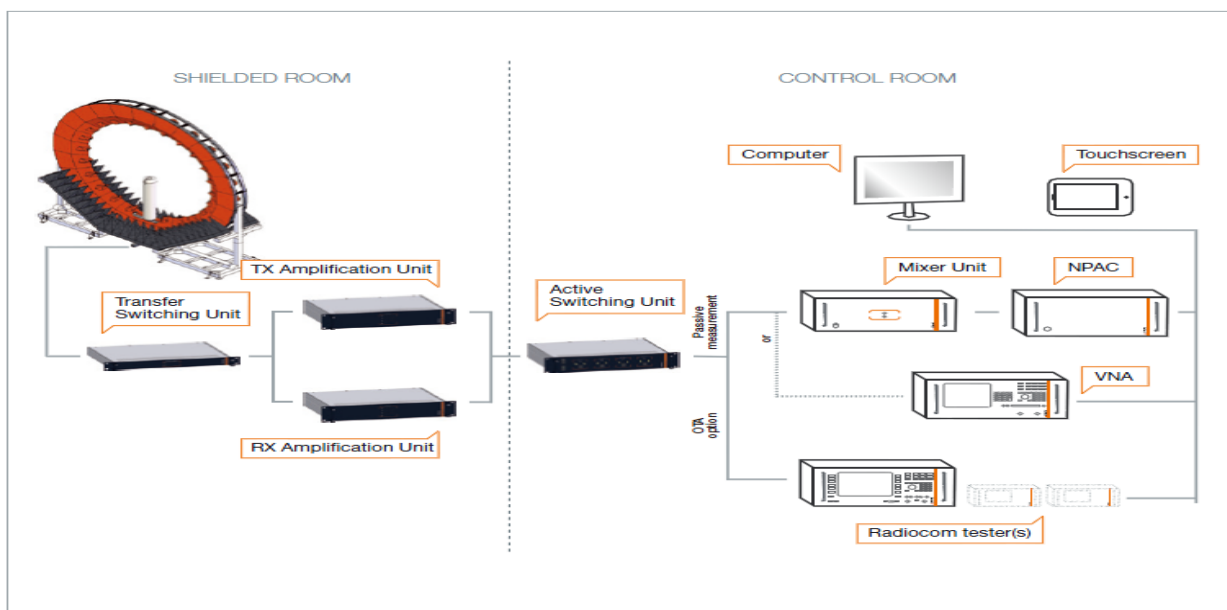
Measurement Setup:

Reflection Coefficient Measurement:

-Instrument : E5071C

-Setup:

### System overview



Pattern Measurement:

-Chamber : Satimo

-Test Program: SPM V15

-Setup Photo(Appendix A)

The antenna gain of the antenna model:

2.43 dBi@2.4~2.5GHz

3.48 dBi@5.15~5.85GHz

Test instrument calibration information:

Vendor	Model	Calibrated Date	Calibrated Until
Satimo	SG24	2021/11/29	2022/11/29
Keysight Network Analyzer	E5071C	2020/3/3	2023/3/3



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Date: 2022/12/14

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