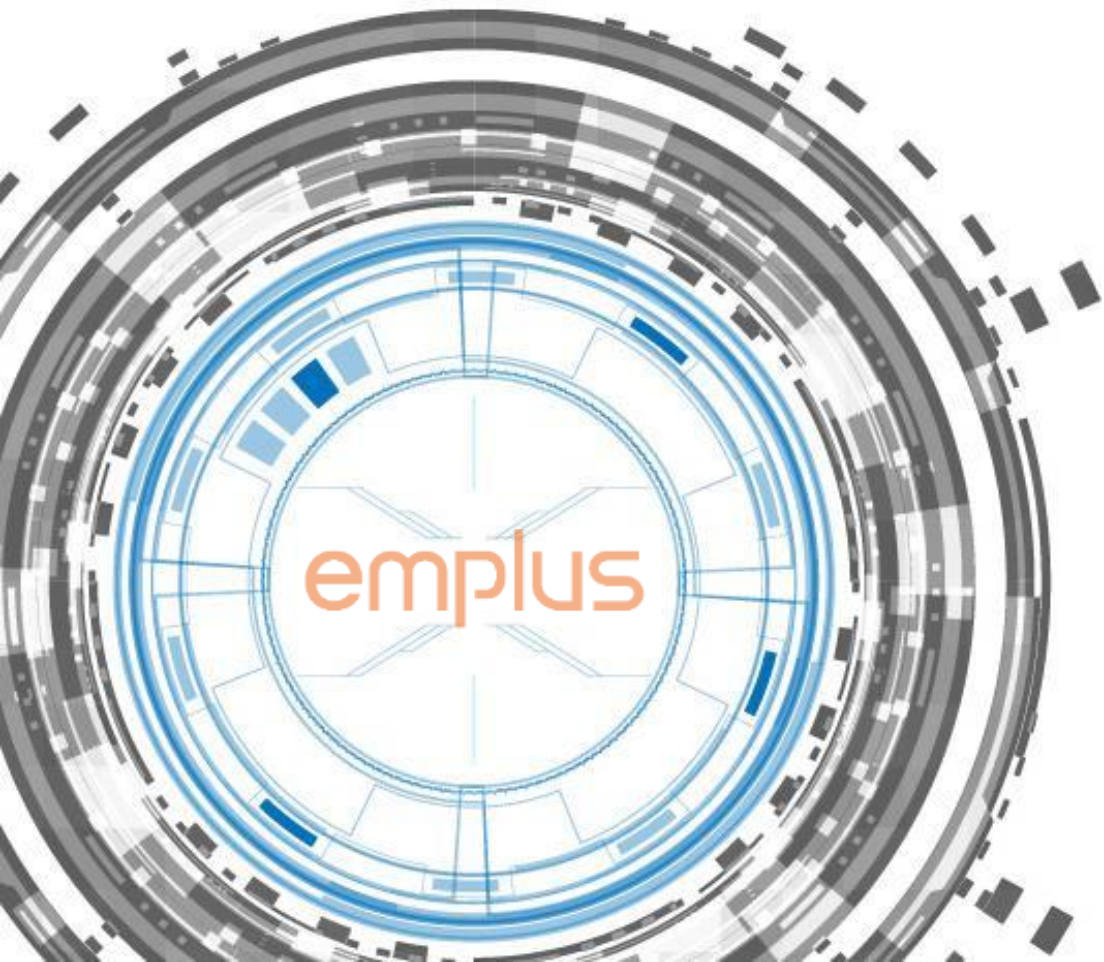




WAP588M

Antenna test report

V2.0
Tim Chao
2024/2/7

Agenda

- History
- Antenna Placement
- Return loss & Isolation
- Gain table
- 2D Radiation Pattern
- Combine Pattern

History

Date	Description	Version
2023/11/20	Draft	V0.1
2023/12/25	New middle frame, modified antennas	V1.0
2024/02/07	Final antennas	V2.0

Antenna Location

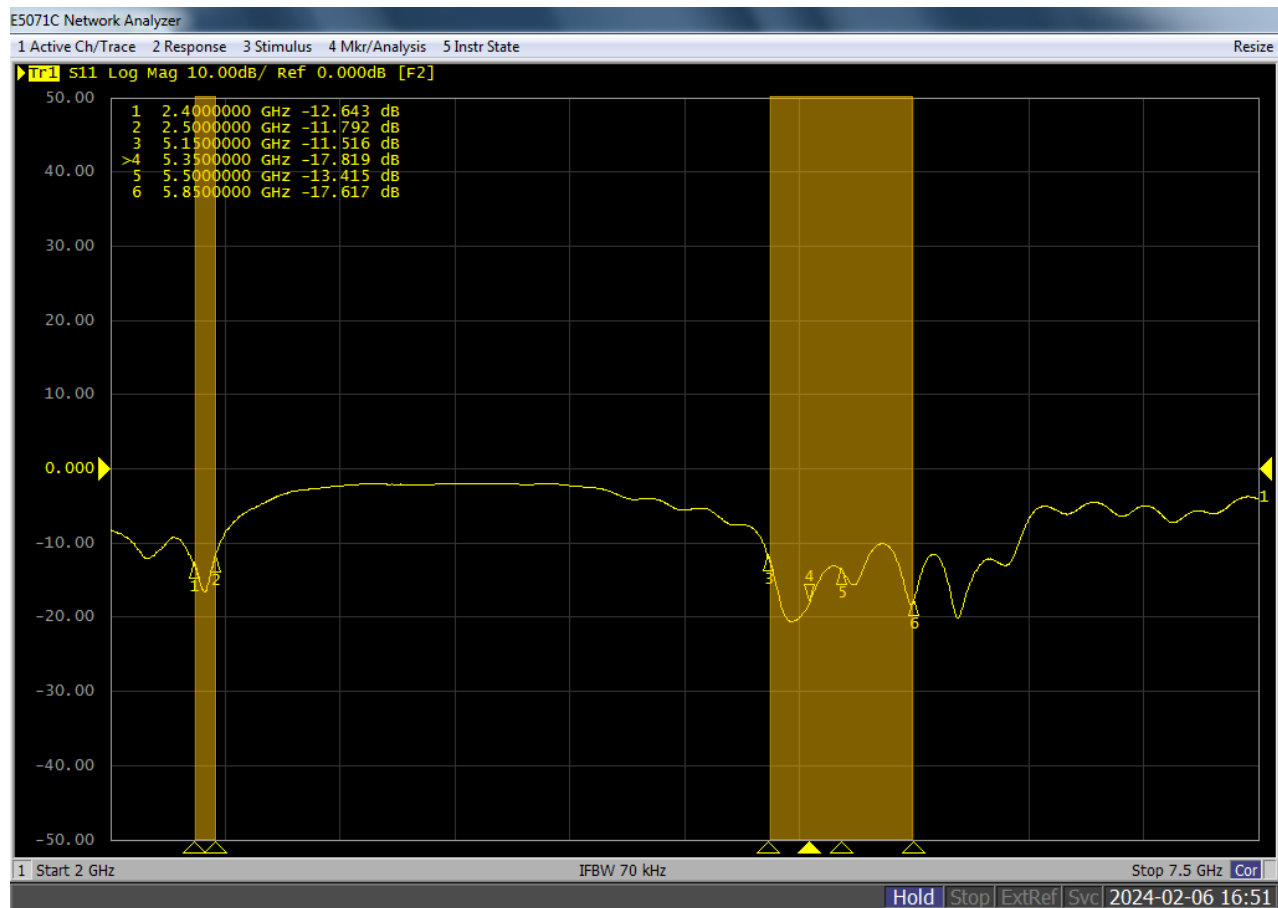
- WAP588M have total two antennas :
- Dual Band * 2

	Size(mm)	Material	PN	Type
DB-1	27.2x5.3x9.3	Metal	7102A1305000	PIFA
DB-2	25.2x5.3x9.3	Metal	7102A1306000	PIFA

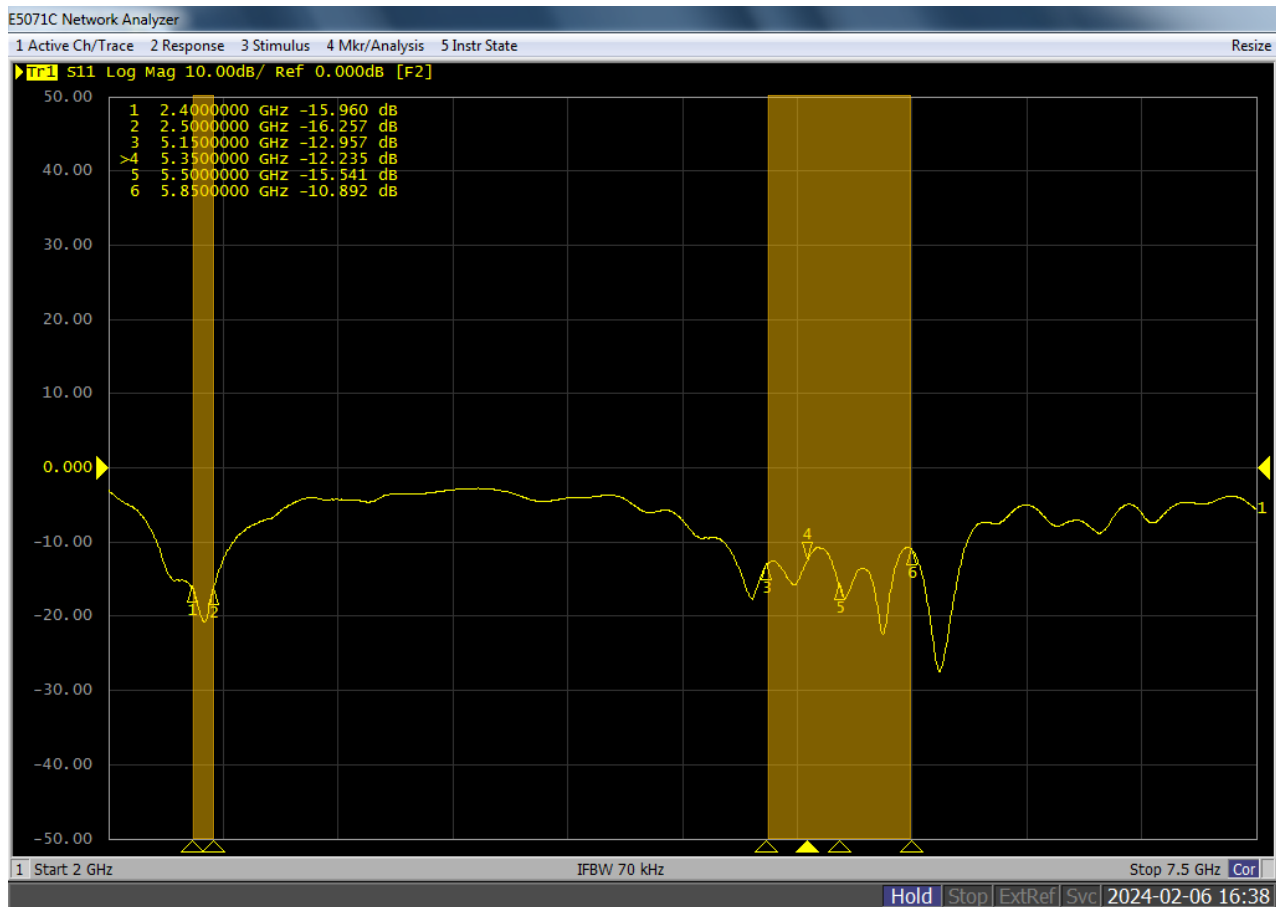
Manufactory : Specon Electronics

Add. : 10 F., No. 302, Ruiguang Rd., Neihu Dist.,
Taipei City 114720, Taiwan (R.O.C.)

Return Loss : DB-1



Return Loss : DB-2



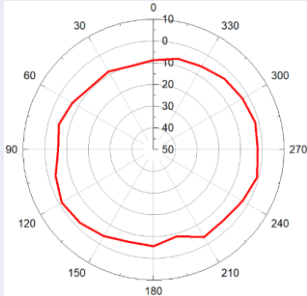
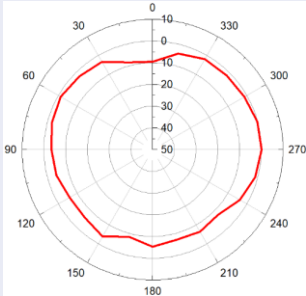
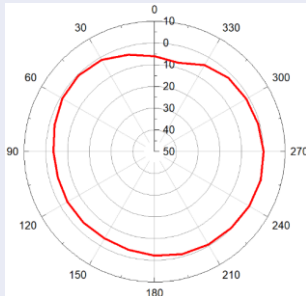
Isolation Table:

	DB-1 to DB-2
@2.45GHz	-13
@5.5GHz	-24

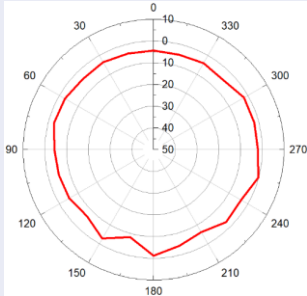
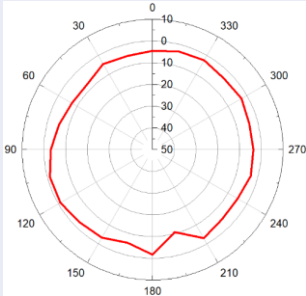
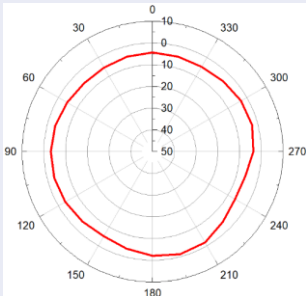
Gain table

	Antenna	Peak gain (dBi)	Efficiency (%)
2.45GHz	DB-1	1.7	55
	DB-2	0.3	50
5.5GHz	DB-1	4	58
	DB-2	3.9	52

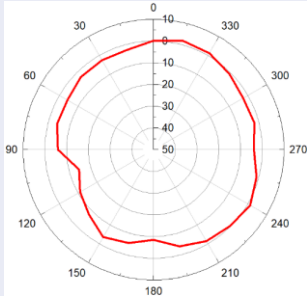
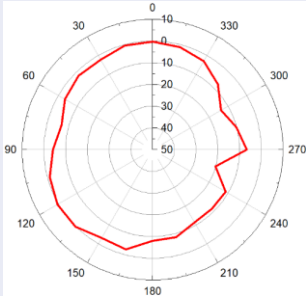
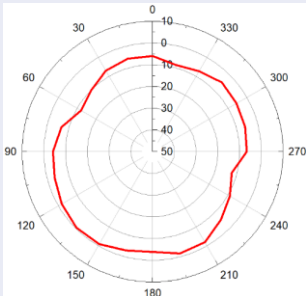
2D pattern : DB-1

Frequency	XZ Plane	YZ Plane	XY Plane
2.45GHz			
			

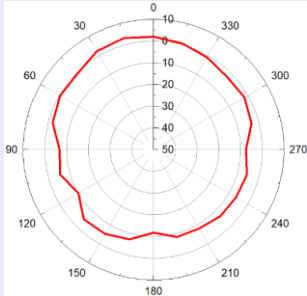
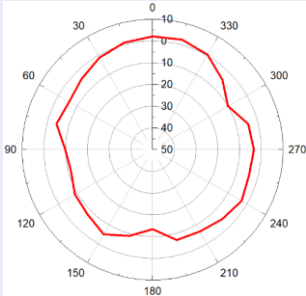
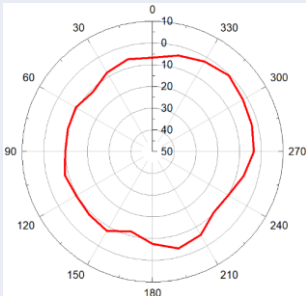
2D pattern : DB-2

Frequency	XZ Plane	YZ Plane	XY Plane
2.45GHz			

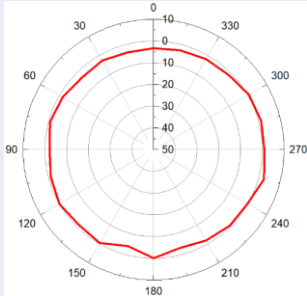
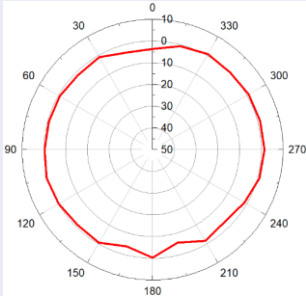
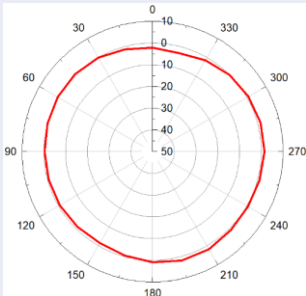
2D pattern : DB-1

Frequency	XZ Plane	YZ Plane	XY Plane
5.5GHz			
			

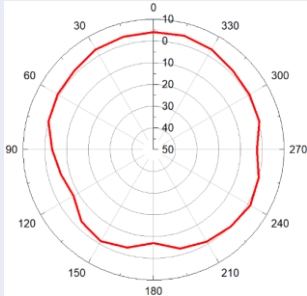
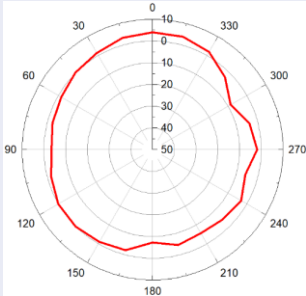
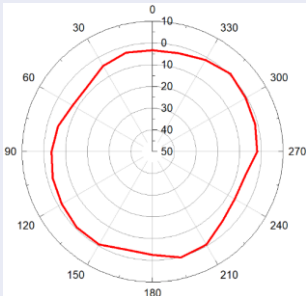
2D pattern : DB-2

Frequency	XZ Plane	YZ Plane	XY Plane
5.5GHz			
			

Combine pattern : 2.4GHz

Frequency	XZ Plane	YZ Plane	XY Plane
2.45GHz			
			

Combine pattern : 5GHz

Frequency	XZ Plane	YZ Plane	XY Plane
5.5GHz			
			



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