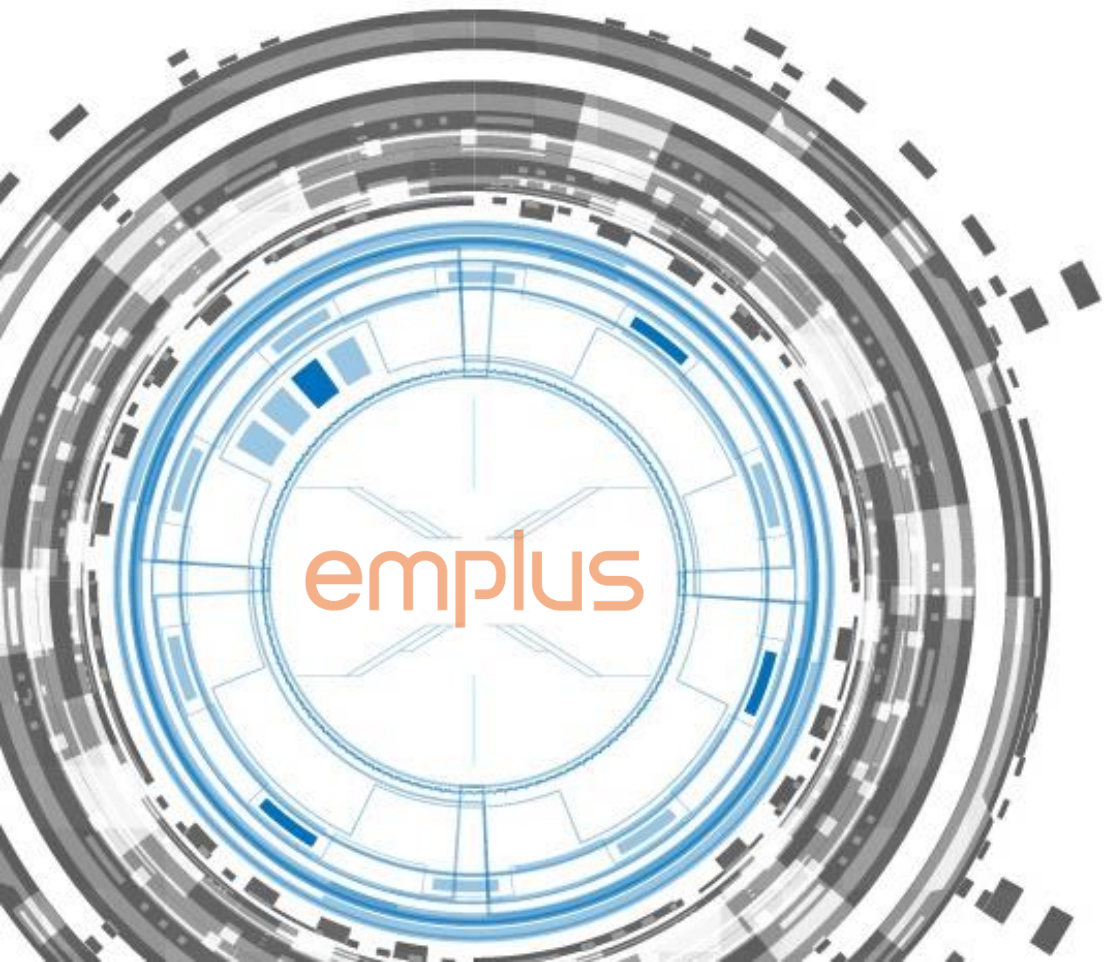




WAP7635

Antenna test report

V0.2
Tim Chao
2025/03/19

Agenda

- History
- Antenna Placement
- Gain table
- 2D Radiation Pattern
- Combine Pattern

History

Date	Description	Version
2025/02/25	Draft	V0.1
2025/03/19	Add isolator, Change antenna location	V0.2

Antenna placement

- WAP7635 have total six antennas as figure :
- 2.4GHz * 2 ; 5GHz * 2 ; 6GHz * 2

	Size(mm)	Material	PN	Type
2-1	44x12.1x9.9	Metal	7102A1343000	PIFA
5-1	44x12.1x9.9	Metal	7102A1343000	PIFA
6-1	44x12.1x9.9	Metal	7102A1343000	PIFA
2-2	44x12.1x9.9	Metal	7102A1344000	PIFA
5-2	44x12.1x9.9	Metal	7102A1344000	PIFA
6-2	44x12.1x9.9	Metal	7102A1344000	PIFA

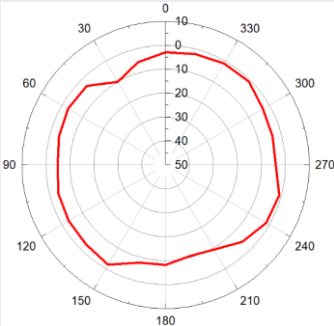
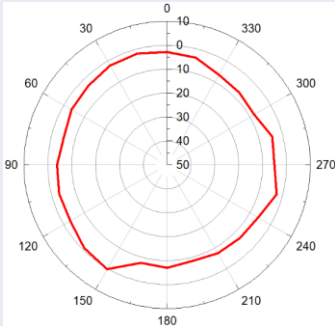
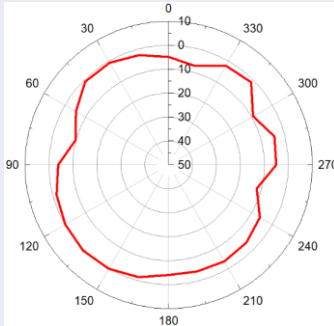
Manufactory : Advanced wireless & antenna inc.

Add. : B2-F, No.207-1, Sec.3, Beixin Rd., Xindian
Dist., New Taipei City, 231, Taiwan

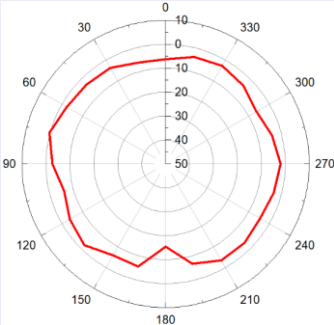
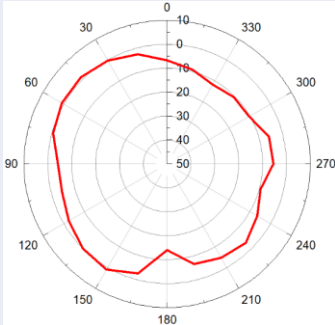
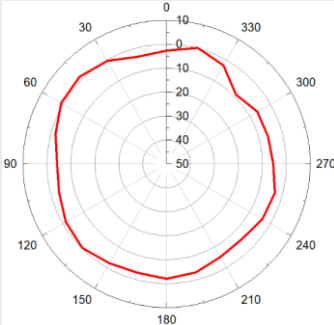
Gain table

Antenna		2400~2483.5 MHz	5150~5250 MHz	5250~5350 MHz	5470~5725 MHz	5725~5850 MHz	5850~5895 MHz	5925~6425 MHz	6425~6525 MHz	6525~6875 MHz	6875~7125 MHz
2-1	Peak Gain (dBi)	3.5									
	Effi.(%)	57									
2-2	Peak Gain (dBi)	4.2									
	Effi.(%)	59									
5-1	Peak Gain (dBi)		4.9	4.5	5.5	6.2					
	Effi.(%)		70	67	75	75					
5-2	Peak Gain (dBi)		4.3	4.7	5.1	5.3					
	Effi.(%)		60	62	64	62					
6-1	Peak Gain (dBi)							5.1	4.7	4.7	5.1
	Effi.(%)							60	62	62	63
6-2	Peak Gain (dBi)							4.8	4.6	4.6	4.5
	Effi.(%)							64	66	66	66

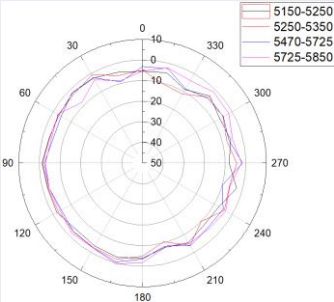
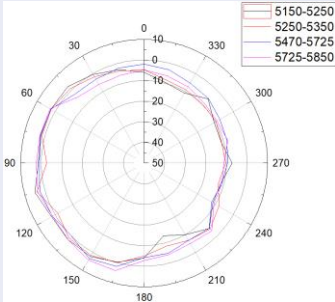
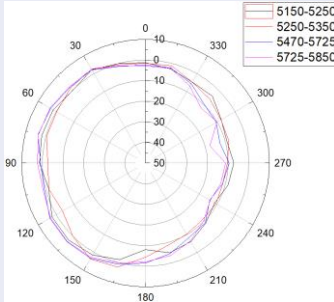
2D pattern : 2-1

Frequency	XZ Plane	YZ Plane	XY Plane
2.45GHz			
			

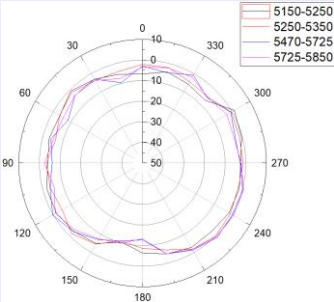
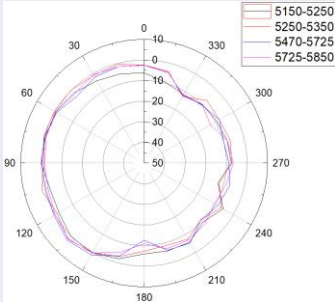
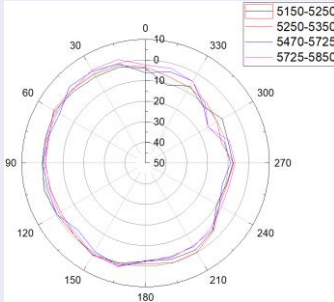
2D pattern : 2-2

Frequency	XZ Plane	YZ Plane	XY Plane
2.45GHz			
			

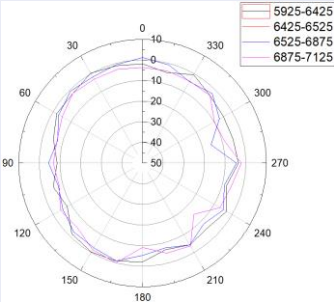
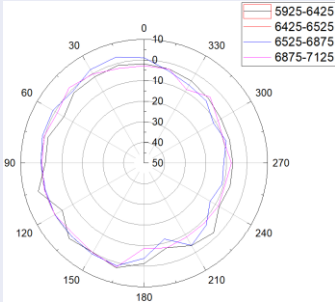
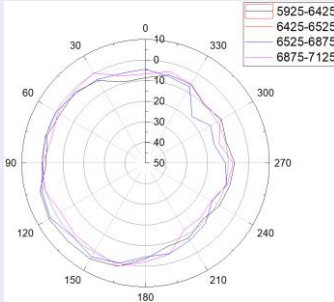
2D pattern : 5-1

Frequency	XZ Plane	YZ Plane	XY Plane
5.5GHz			
			

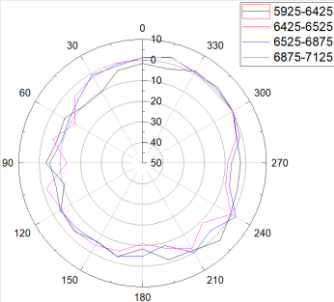
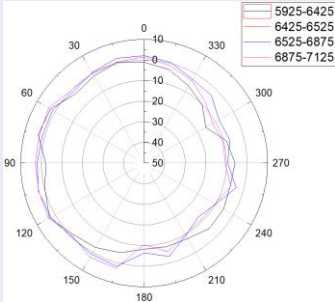
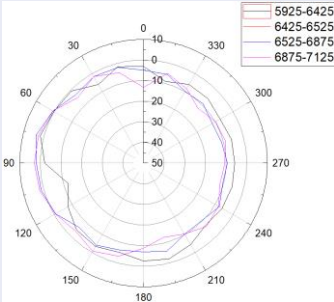
2D pattern : 5-2

Frequency	XZ Plane	YZ Plane	XY Plane
5.5GHz			
			

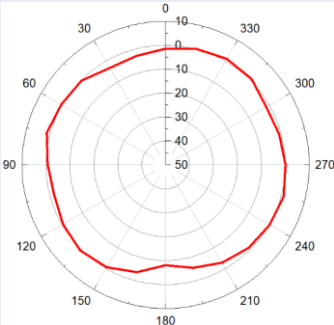
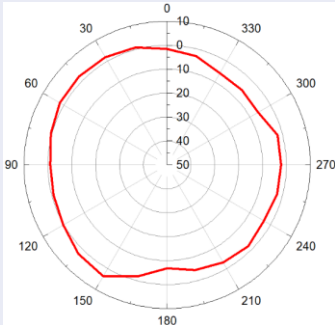
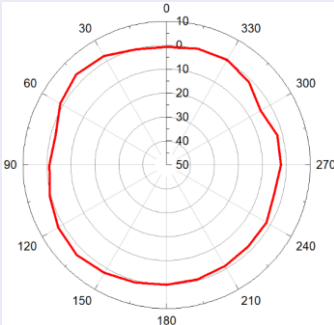
2D pattern : 6-1

Frequency	XZ Plane	YZ Plane	XY Plane
6.5GHz			
			

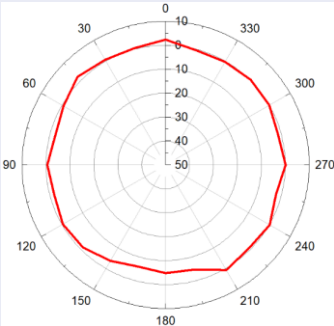
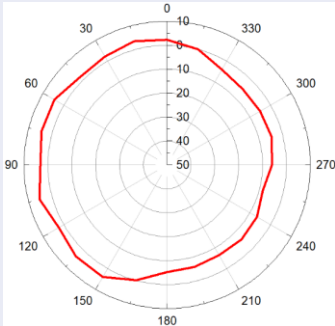
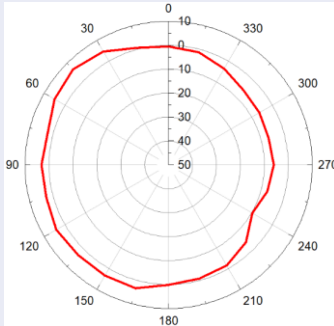
2D pattern : 6-2

Frequency	XZ Plane	YZ Plane	XY Plane
6.5GHz			
			

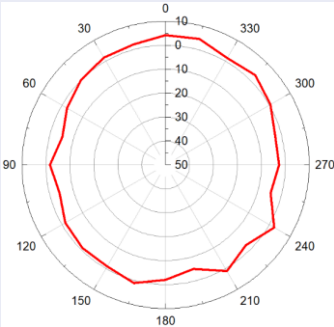
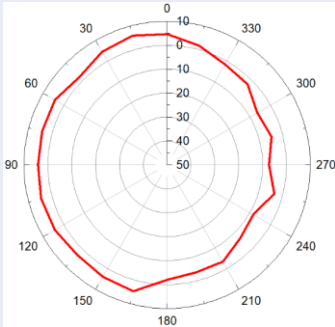
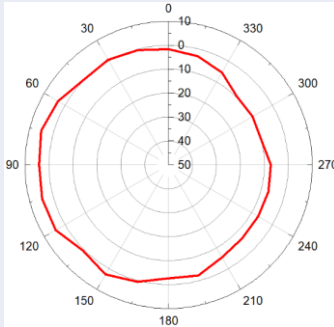
Combine pattern : 2.4GHz

Frequency	XZ Plane	YZ Plane	XY Plane
2.45GHz			
			

Combine pattern : 5GHz

Frequency	XZ Plane	YZ Plane	XY Plane
5.5GHz			
			

Combine pattern : 6GHz

Frequency	XZ Plane	YZ Plane	XY Plane
6.5GHz			
			



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