



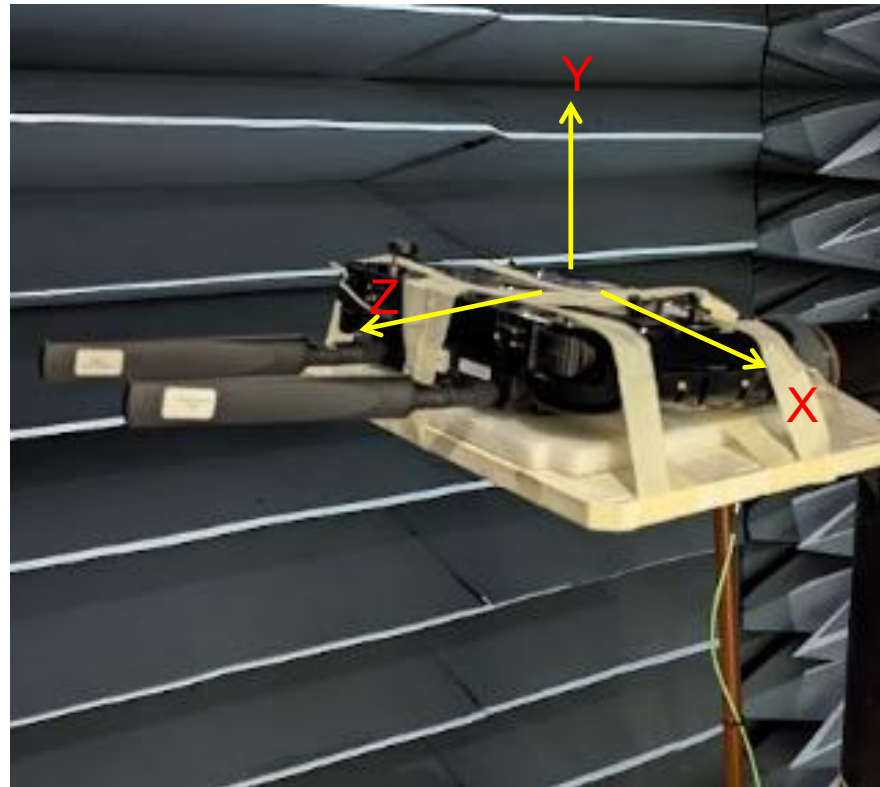
AnJie
Electronics Co.

Evaluation Test Report of WiFi Antenna

Project : Coral 7

Date 2026/07/06

Antenna Configuration



Antenna Configuration



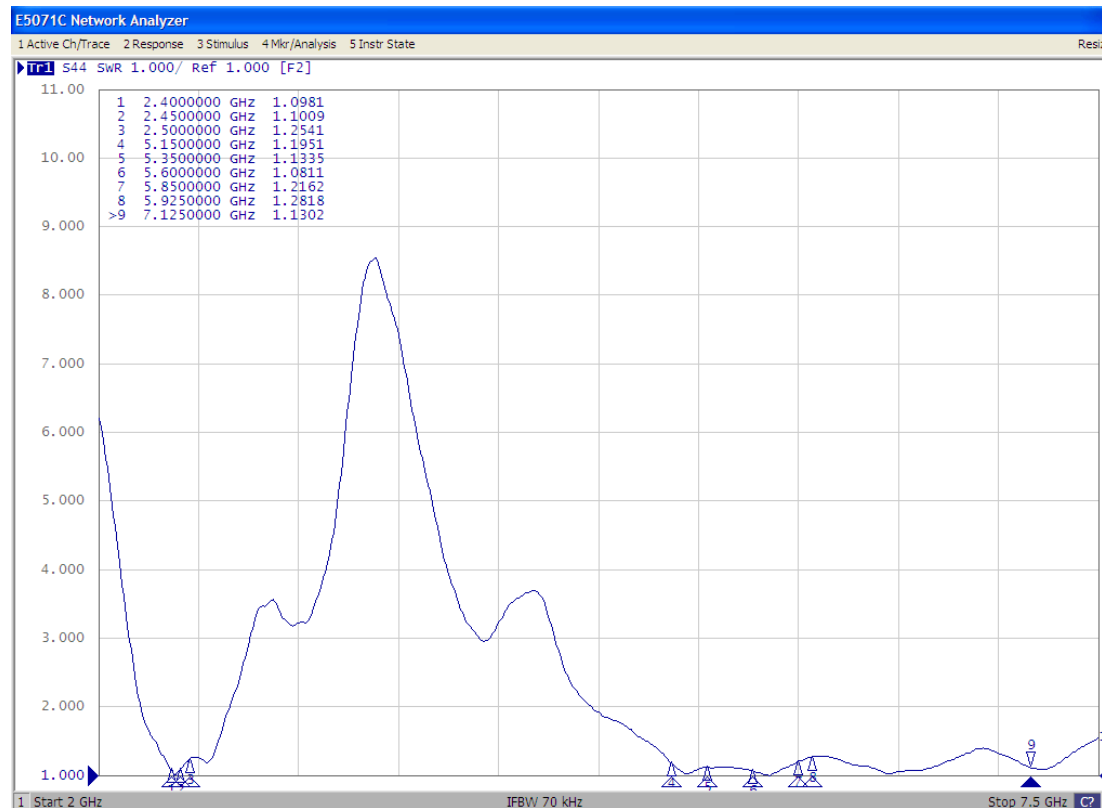
Specification

Product Number : AJLP1J-B0007(Main)、AJLP1J-W0004(AUX)

Electrical Characteristics

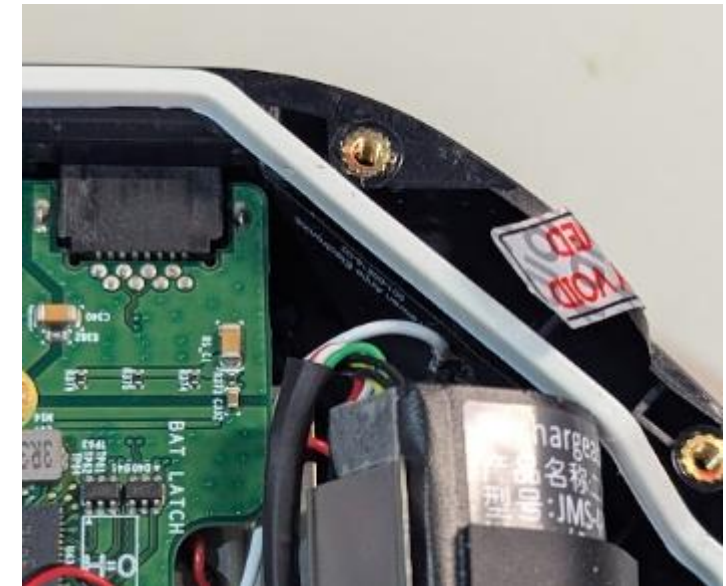
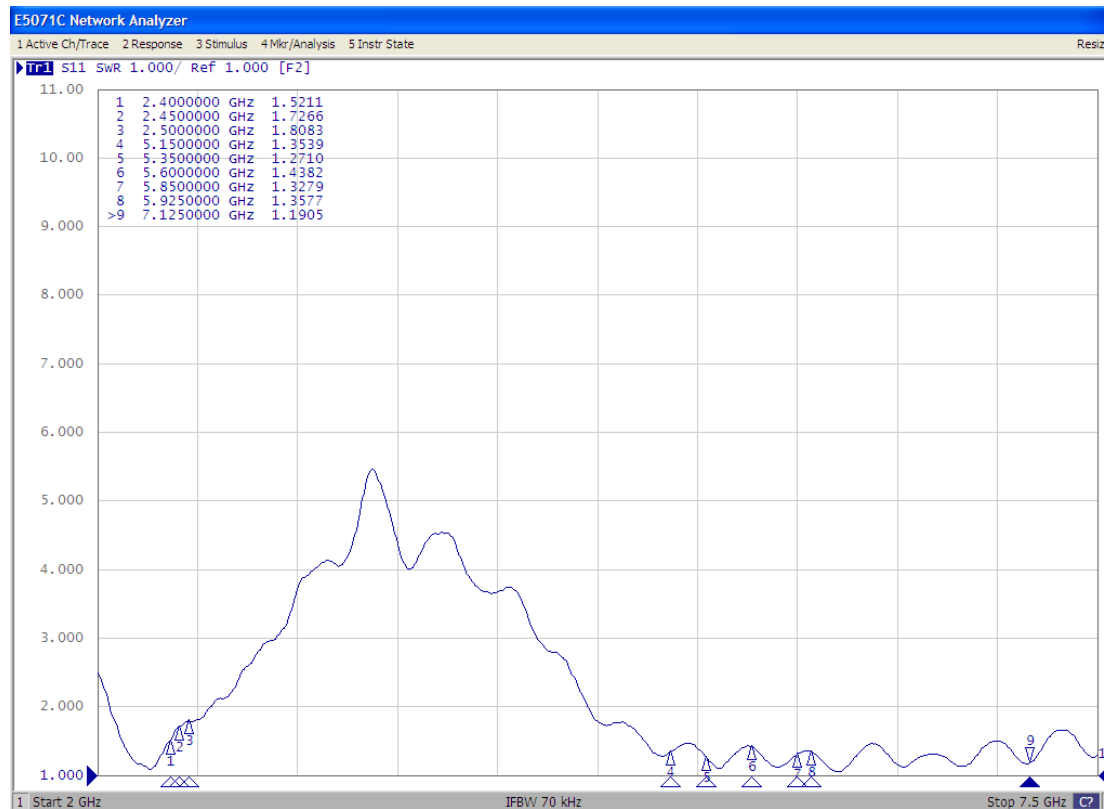
- . Frequency (MHz) :2400-2500MHz, 5150-5850MHz, 5925-7125MHz
- . VSWR: < 2 MAX
- . Efficiency : >30%
- . Peak Gain : > 0.10 dBi
- . Impedance : 50 Ω
- . Polarization : Linear
- . Antenna Type : Dipole

WiFi Main VSWR



WiFi Main (AJLP1J-B0007)

WiFi Aux VSWR



WiFi Aux (AJLP1J-W0004)

Gain & Efficiency Test Data

WiFi Main (AJLP1J-B0007)

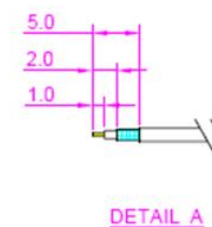
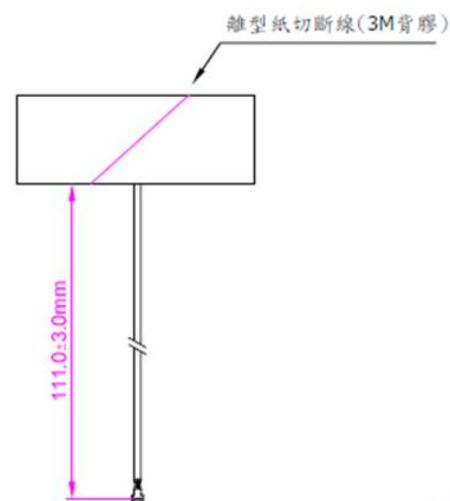
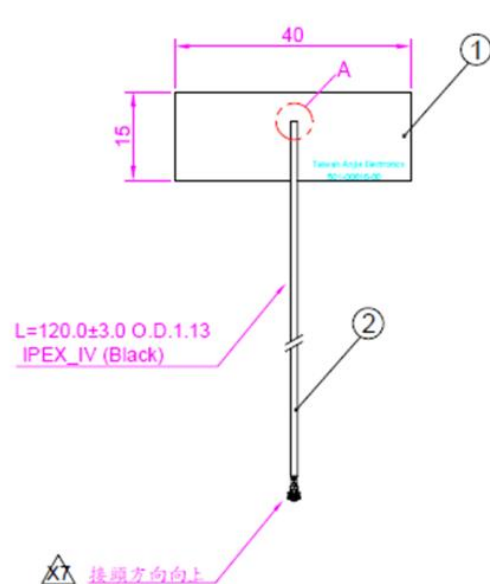
Frequency (MHz)	2400	2450	2500	5150	5250	5350	5450	5600	5725	5785	5800	5850	5925	6085	6245	6405	6565	6725	6885	7045	7125
Peak Gain (dBi)	2.2	1.9	2.0	1.7	2.1	2.0	1.9	2.1	2.2	2.1	2.0	2.0	2.2	2.1	2.2	2.1	2.2	2.2	2.1	2.2	1.8
Efficiency (dB)	-3.5	-3.6	-3.3	-3.0	-2.0	-2.4	-2.7	-2.7	-2.3	-2.6	-2.8	-2.6	-2.6	-2.5	-2.8	-3.3	-2.7	-2.6	-3.9	-3.6	-3.8
Efficiency (%)	45.1	44.1	46.6	50.6	63.8	57.1	53.4	53.4	59.3	54.9	52.3	55.5	55.6	55.7	52.0	46.3	53.7	55.1	40.3	43.5	42.0

WiFi Aux (AJLP1J-W0004)

Frequency (MHz)	2400	2450	2500	5150	5250	5350	5450	5600	5725	5785	5800	5850	5925	6085	6245	6405	6565	6725	6885	7045	7125
Peak Gain (dBi)	1.7	1.8	1.5	2.1	2.2	1.8	2.1	1.9	2.2	1.9	1.8	2.2	2.3	1.6	1.7	1.5	2.2	2.2	1.8	1.8	1.6
Efficiency (dB)	-3.5	-3.5	-3.5	-2.9	-2.2	-2.7	-2.9	-3.0	-2.6	-2.9	-3.1	-2.9	-3.0	-3.2	-3.5	-3.4	-2.7	-3.1	-4.3	-3.9	-3.8
Efficiency (%)	44.7	44.8	44.8	51.1	60.9	53.5	50.8	49.8	55.4	51.4	48.6	50.9	49.8	48.1	45.0	45.9	53.4	49.0	36.9	40.8	41.7

Drawing Layout

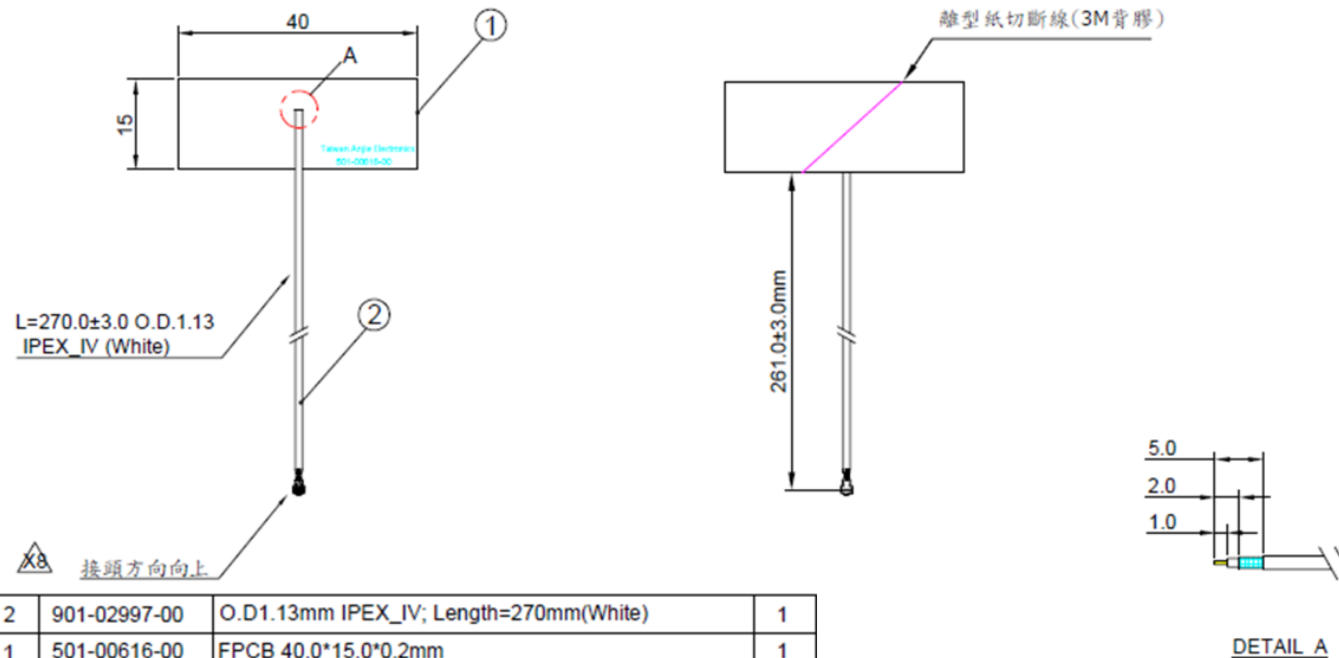
AJLP1J-B0007



2	901-02996-00	O.D1.13mm IPEX_IV; Length=120mm(Black)	1
1	501-00616-00	FPCB 40.0*15.0*0.2mm	1
No.	Part No.	Description	Q'ty

Drawing Layout

AJLP1J-W0004



2	901-02997-00	O.D1.13mm IPEX_IV; Length=270mm(White)	1
1	501-00616-00	FPCB 40.0*15.0*0.2mm	1
No.	Part No.	Description	Q'ty



Antenna Assembly Specifications

Antenna Part Number	Antenna Type	Cable Assembly Part Number and Information	Freq Range MHz	Peak Gain W/ Cable loss (dBi)	Peak Gain w/o Cable Loss (dBi)	Max VSWR	Cable Loss (dB)
Vender P/N: AJLP1J-B0007	Dipole	I-pex:四代頭 Coaxial length: 120mm Diameter: 1.13	2400-2500MHz	2.2	2.63	2	0.43
			5150-5250MHz	2.1	2.74	2	0.64
			5250-5350MHz	2.1	2.74	2	0.64
			5470-5725MHz	2.2	2.86	2	0.66
			5725-5850MHz	2.2	2.87	2	0.67
			5850-5895MHz	2.2	2.87	2	0.67
			5925-6425MHz	2.2	2.9	2	0.7
			6425-6525MHz	2.2	2.92	2	0.72
			6525-6875MHz	2.2	2.94	2	0.74
			6875-7125MHz	2.2	2.97	2	0.77

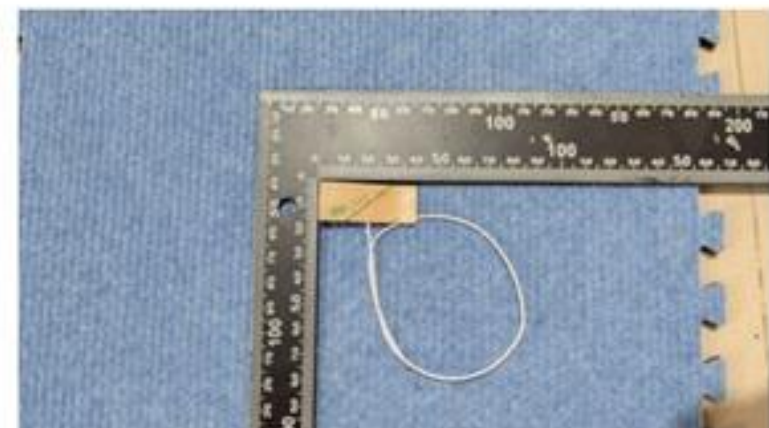
Antenna Part Number	Antenna Type	Cable Assembly Part Number and Information	Freq Range MHz	Peak Gain W/ Cable loss (dBi)	Peak Gain w/o Cable Loss (dBi)	Max VSWR	Cable Loss (dB)
Vender P/N: AJLP1J-W0004	Dipole	I-pex:四代頭 Coaxial length: 270mm Diameter: 1.13	2400-2500MHz	1.8	2.77	2	0.97
			5150-5250MHz	2.2	3.63	2	1.43
			5250-5350MHz	2.2	3.63	2	1.43
			5470-5725MHz	2.2	3.68	2	1.48
			5725-5850MHz	2.2	3.71	2	1.51
			5850-5895MHz	2.3	3.81	2	1.51
			5925-6425MHz	2.3	3.87	2	1.57
			6425-6525MHz	2.2	3.83	2	1.63
			6525-6875MHz	2.2	3.87	2	1.67
			6875-7125MHz	2.2	3.93	2	1.73

Antenna Photo (Front/Back)

AJLP1J-B0007(Main)

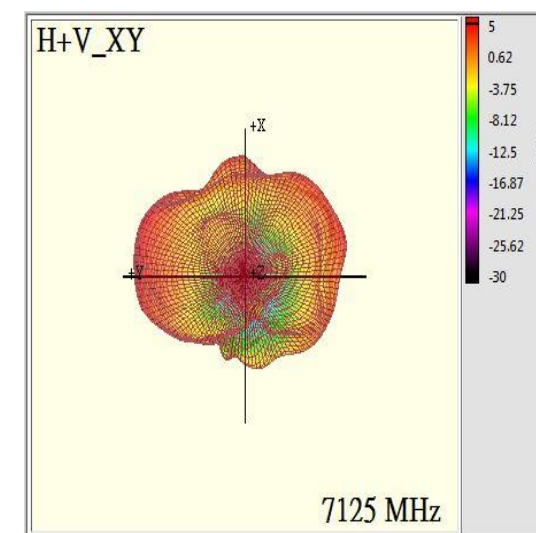
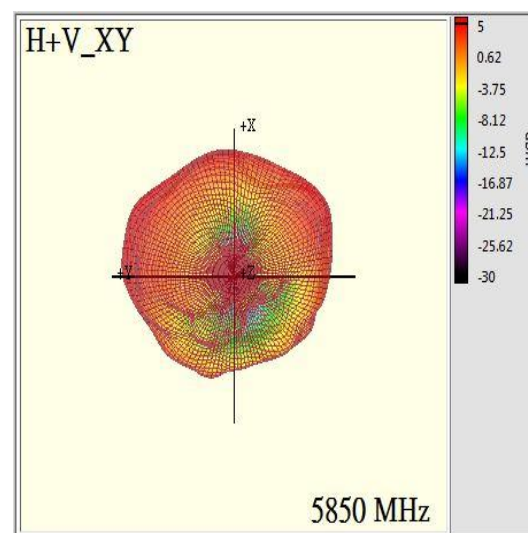
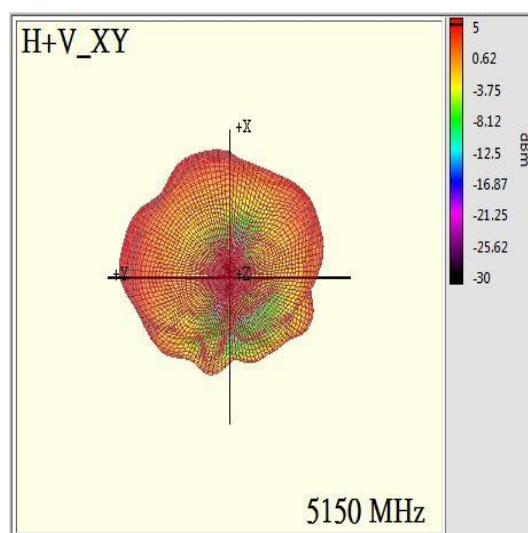
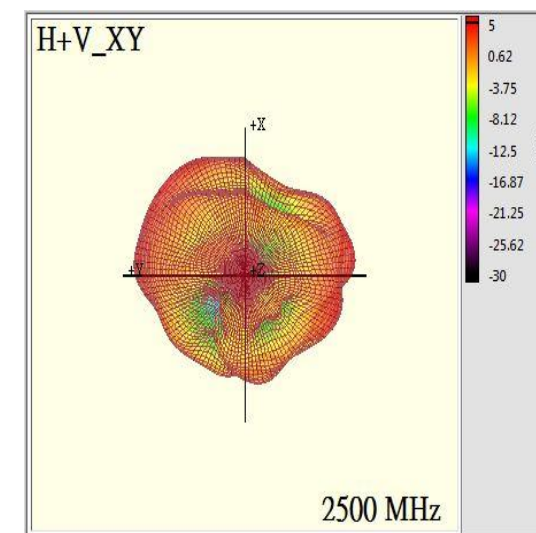
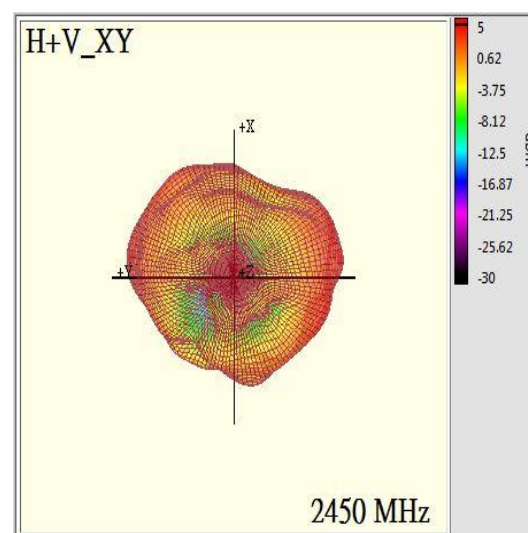
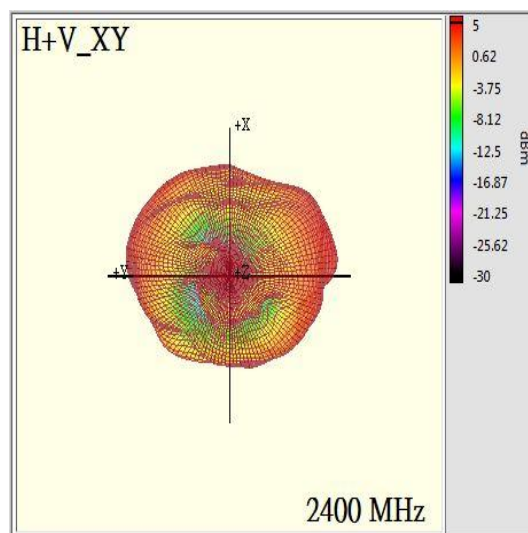


AJLP1J-W0004(AUX)



3D Pattern

WiFi Main



WiFi Aux

3D Pattern

