

PX501_認證報告

Model Name : ALP6Y-100003(Aux)

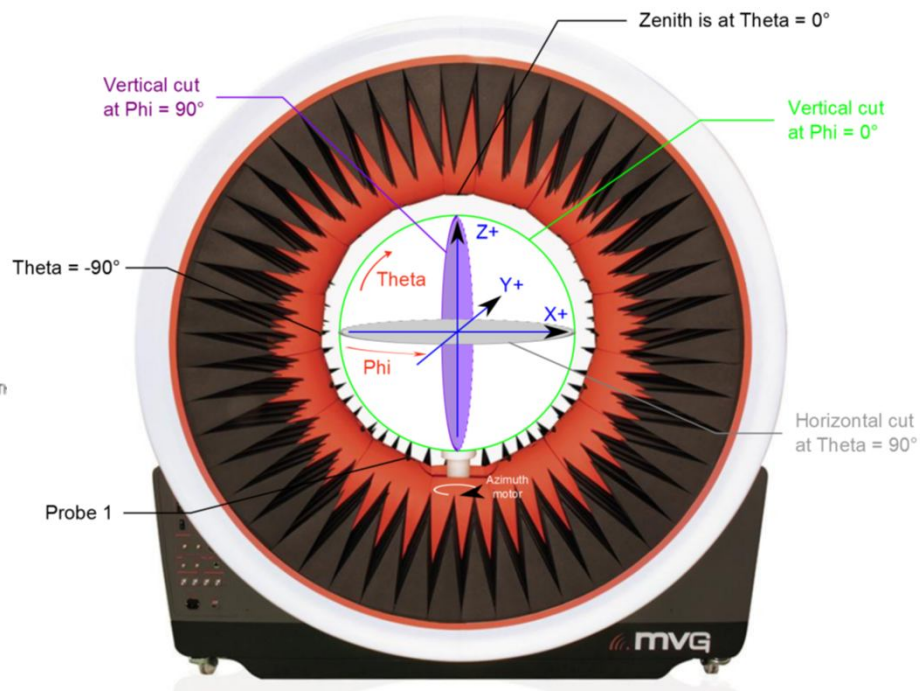
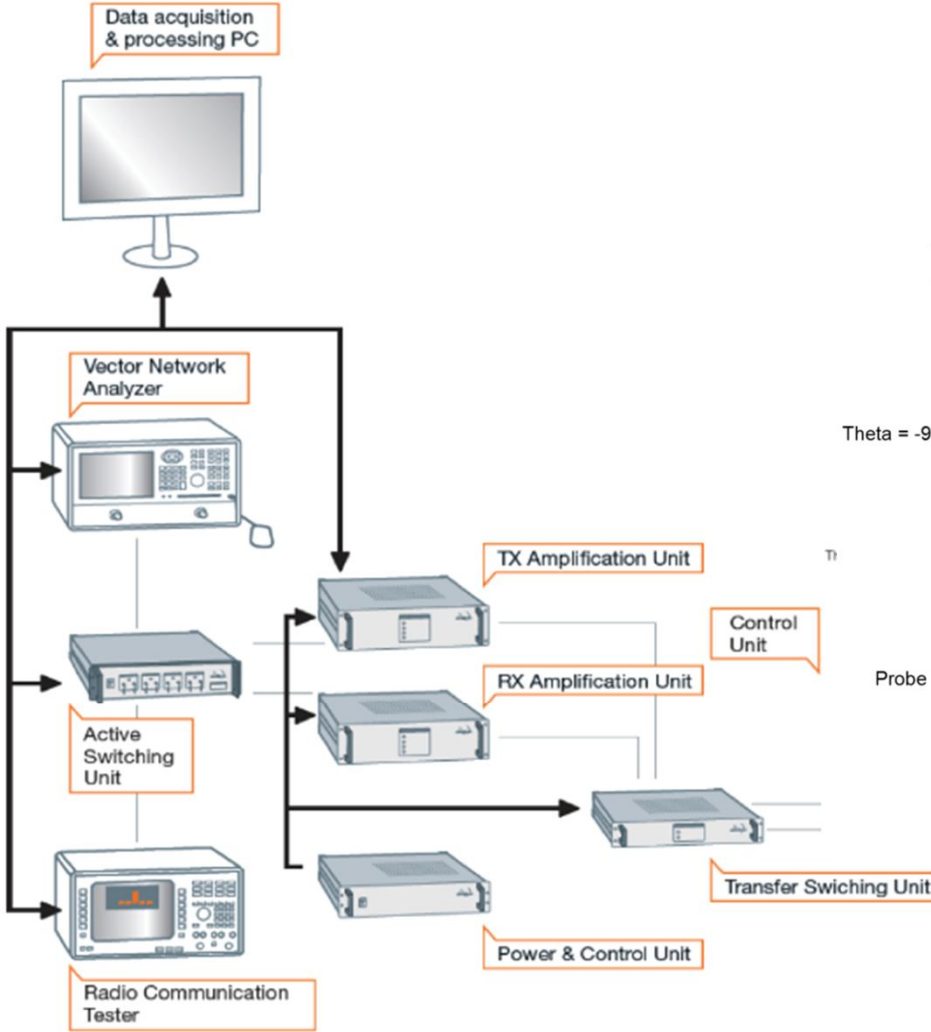
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Antenna Test System



Specification

- . Product Number : ALP6Y-100003(Aux)
- . Version :

Electrical Characteristics

- . Frequency (MHz) :2400-2500MHz, 5150-5850MHz, 5925-7125MHz
- . Return Loss : < -7.5 dB
- . Efficiency : 24~36%
- . Peak Gain : < 1 dBi
- . Impedance : 50 Ω
- . Polarization : Linear
- . Antenna Type : PIFA

Mechanical Characteristics

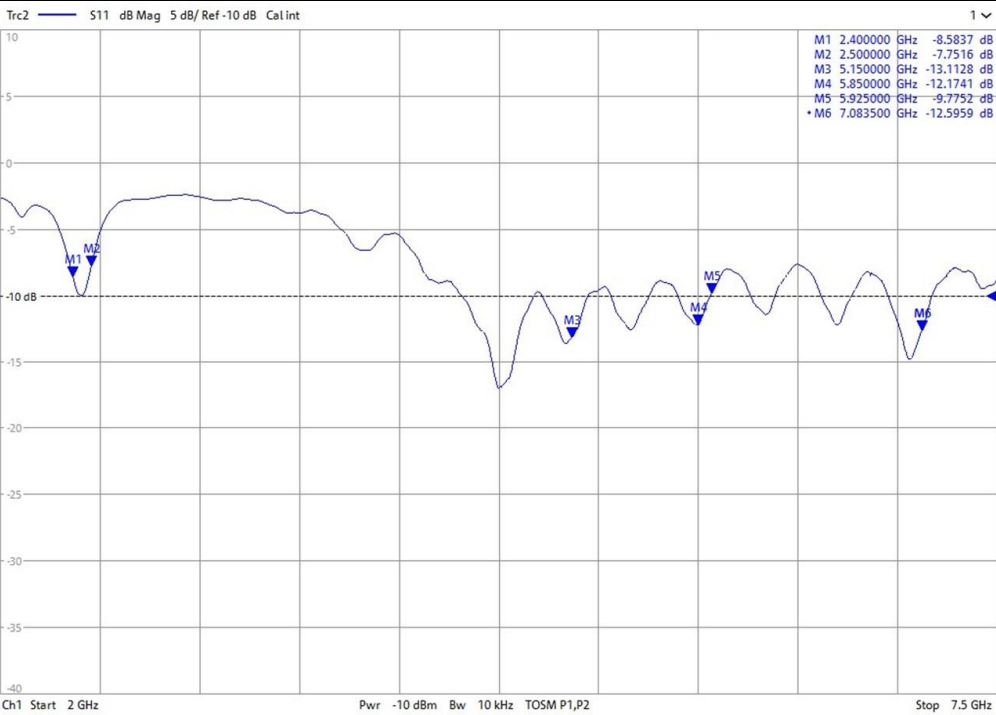
- . Cable / Connector : 1.13mm / IPEX
- . Material : SUS430

Environmental Condition

- . Operation Temperature : -30~+65 $^{\circ}\text{C}$
- . Storage Temperature : -30~+85 $^{\circ}\text{C}$

Return Test Data

i ALP6Y-100003(Aux)



Gain / Efficiency Test Data

i ALP6Y-100003(Aux)

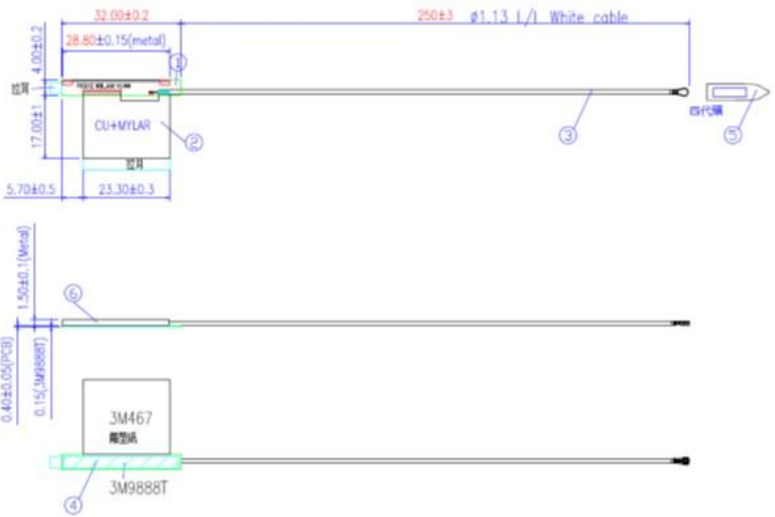
Frequency (MHz)	2400	2450	2500	5150	5250	5350	5470	5600
Peak Gain (dBi)	0.48	0.94	0.83	0.87	0.92	0.84	0.63	0.50
Efficiency (dBi)	-5.22	-4.58	-4.46	-4.49	-4.48	-4.55	-4.54	-5.22
Efficiency (%)	30.06	34.83	35.81	35.56	35.65	35.08	35.16	30.06
Frequency (MHz)	5725	5785	5850	5925	6000	6125	6225	6325
Peak Gain (dBi)	0.80	0.45	0.83	0.85	0.73	0.90	0.81	0.85
Efficiency (dBi)	-5.48	-5.67	-5.64	-6.04	-6.04	-5.42	-5.41	-5.6
Efficiency (%)	28.31	27.10	27.29	24.89	24.89	28.71	28.77	27.54
Frequency (MHz)	6425	6525	6625	6725	6875	6925	7000	7125
Peak Gain (dBi)	0.36	0.82	0.98	0.97	0.89	0.91	0.84	0.83
Efficiency (dBi)	-5.41	-5.47	-5.46	-5.34	-5.44	-5.45	-5.47	-6.1
Efficiency (%)	28.77	28.38	28.44	29.24	28.58	28.51	28.38	24.55

Drawing Layout

i ALP6Y-100003(Aux)

AWAN P/N	ALP6Y-100003
Customer P/N	21U700067-002


Rev	EC#	Description	Drawn/Date	Checked/Date	Approved/Date
X1		New Release	Jeremy 07/18/23	Sam 07/18/23	Sam 07/18/23




Item	Name	Q'ty	Part #	Material / Finish
6	PX501E_WIF_AUX_Metal 28.6x1.5J±0.3mm	1		Metal
5	PCB	1		Fiber
4	PX501E_WIF_AUX_WF	1		Sheet
3	#1.13 L/L White Cable + WFL	1		CABLE
2	PX501E_WIF_AUX_Cu_FIBL	1		Cu foil
1	PX501E_WIF_AUX_PCB	1		PCB

Item	Name	Q'ty	Part #	Material / Finish
6	PX501E_WIF_AUX_Metal 28.6x1.5J±0.3mm	1		Metal
5	PCB	1		Fiber
4	PX501E_WIF_AUX_WF	1		Sheet
3	#1.13 L/L White Cable + WFL	1		CABLE
2	PX501E_WIF_AUX_Cu_FIBL	1		Cu foil
1	PX501E_WIF_AUX_PCB	1		PCB

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Drawn	Jeremy	07/18/23	
Checked	Sam	07/18/23	
Approved	Sam	07/18/23	PX501E_WIF_AUX_ANT_HF_0718 1 of 1
Customer Drawing			

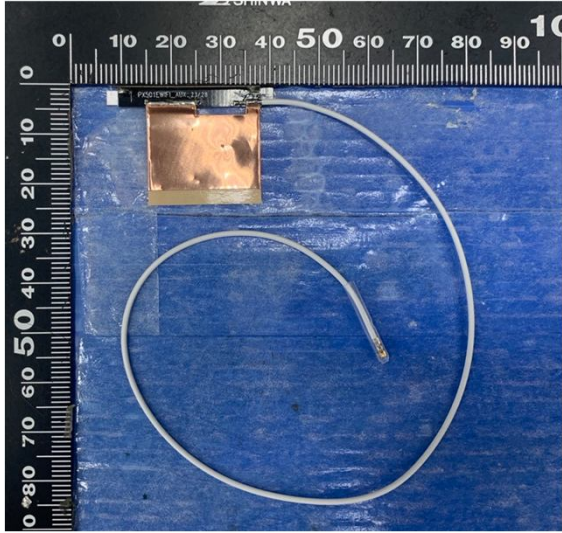
Antenna Assembly Specifications

Antenna Part Number	Manufacturer	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 Return Loss (dB)	Cable Loss (dB)
P/N: 21U700067-002 Vender P/N: ALP6Y-100003	AWAN	PIFA	I-pex:四代頭 Coaxial length: 220mm Diameter: 1.13	2400-2500MHz	0.94	1.65	-7.5	0.71
				5150-5250MHz	1.92	3.01	-7.5	1.09
				5250-5350MHz	1.92	3.02	-7.5	1.10
				5470-5725MHz	1.80	2.93	-7.5	1.13
				5725-5850MHz	1.83	3.00	-7.5	1.17
				5925-6425MHz	1.90	3.11	-7.5	1.21
				6425-6525MHz	1.82	3.06	-7.5	1.24
				6525-6875MHz	1.98	3.26	-7.5	1.28
				6875-7125MHz	1.91	3.22	-7.5	1.31

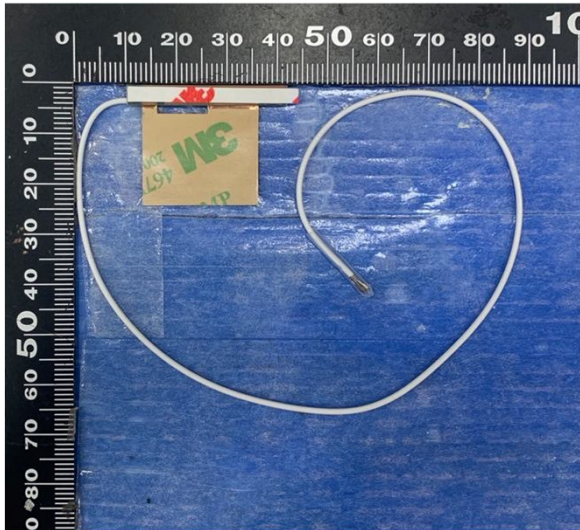
Antenna Photo (Front/Back):

i ALP6Y-100003(Aux)

i Front

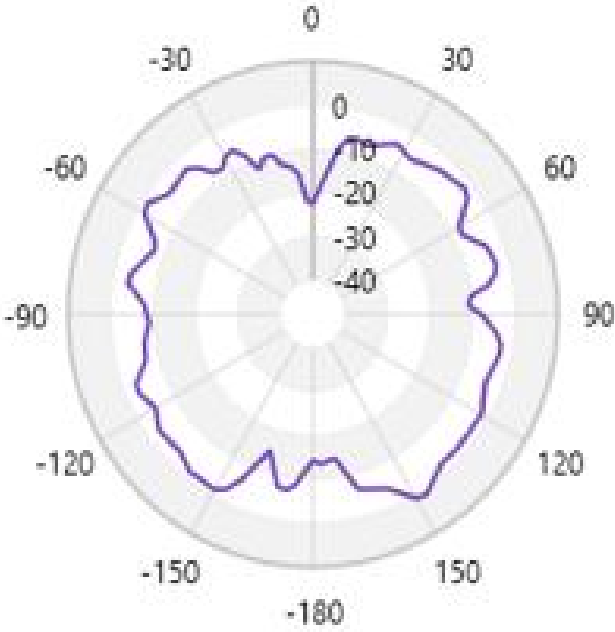


i Back

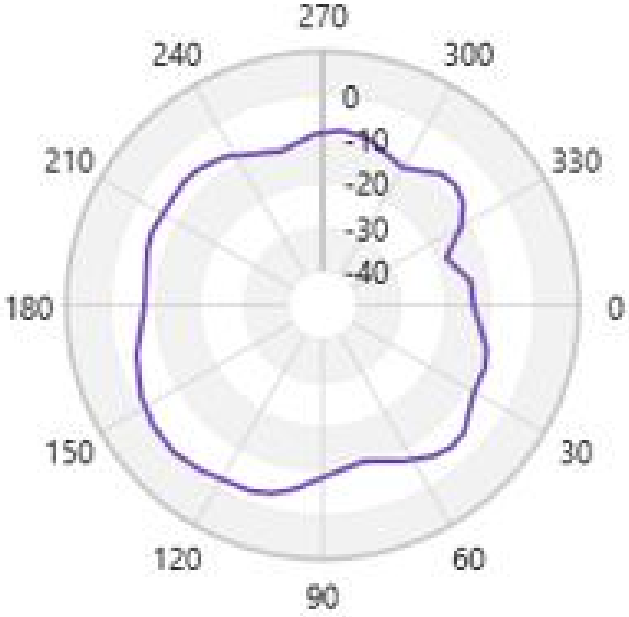


Radiation characteristics of antenna loaded in Host Platform @ 2450MHz:

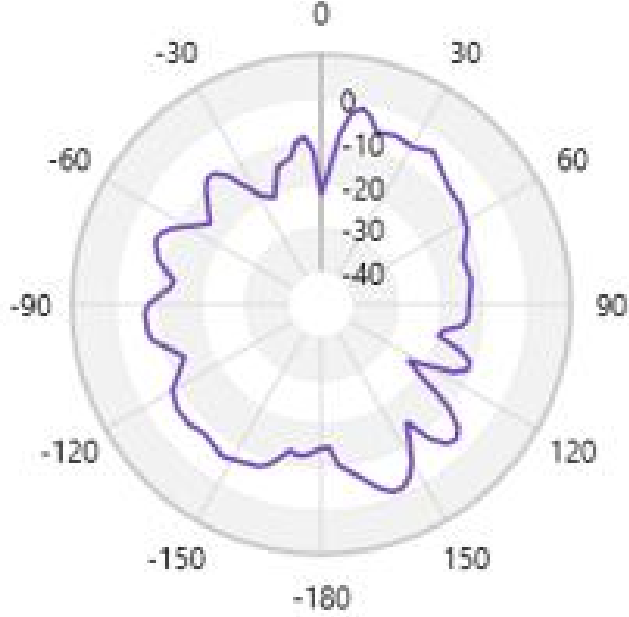
i ALP6Y-100003(Aux)



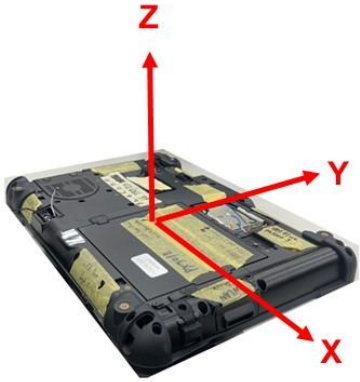
Z-Y



X-Y

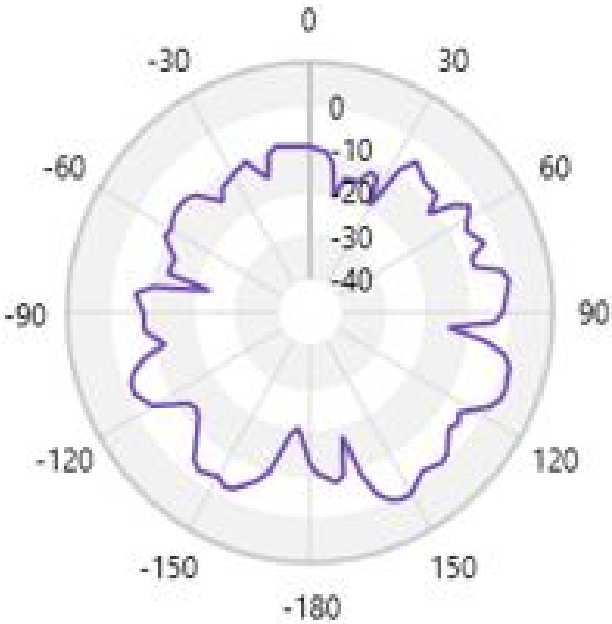


Z-X

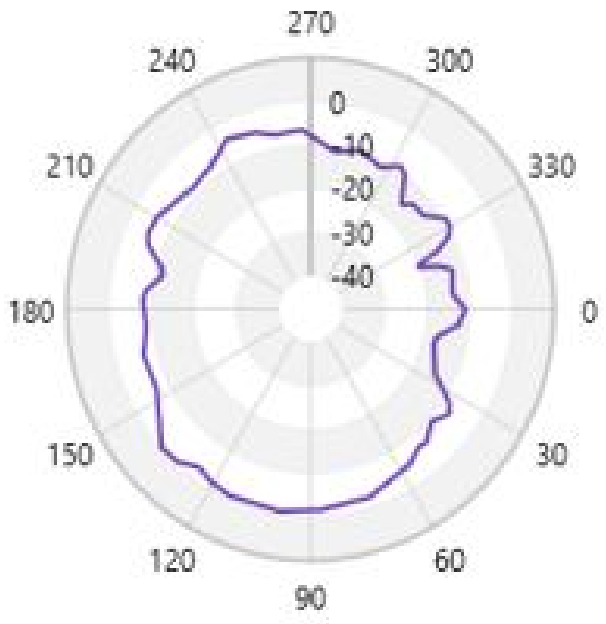


Radiation characteristics of antenna loaded in Host Platform @ 5250MHz:

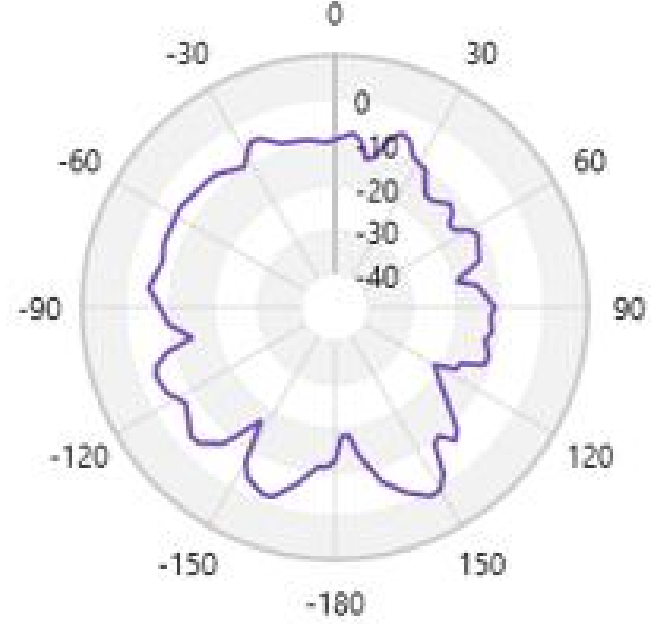
i ALP6Y-100003(Aux)



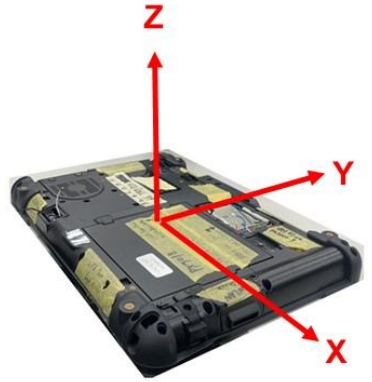
Z-Y



X-Y

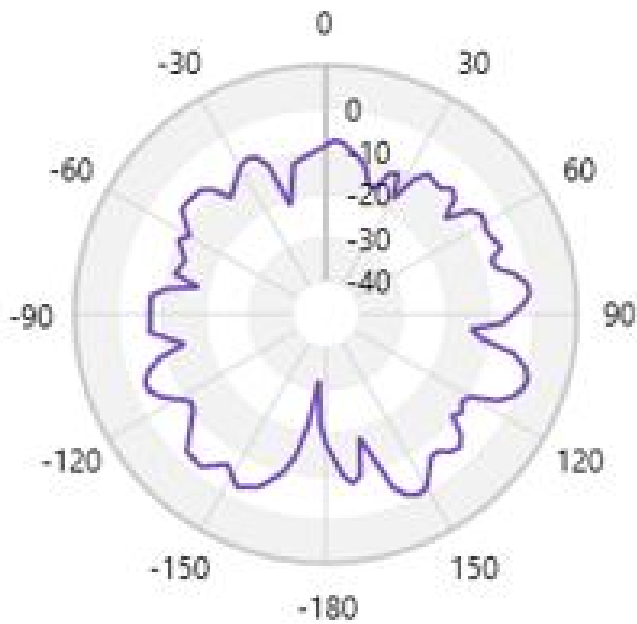


Z-X

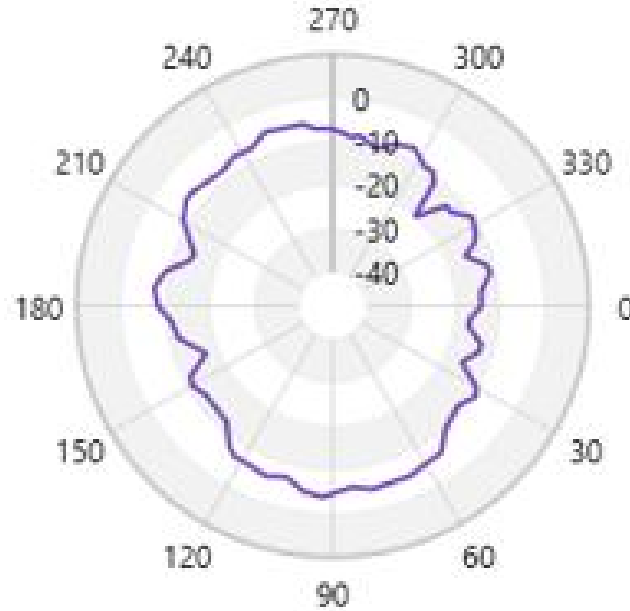


Radiation characteristics of antenna loaded in Host Platform @ 5725MHz:

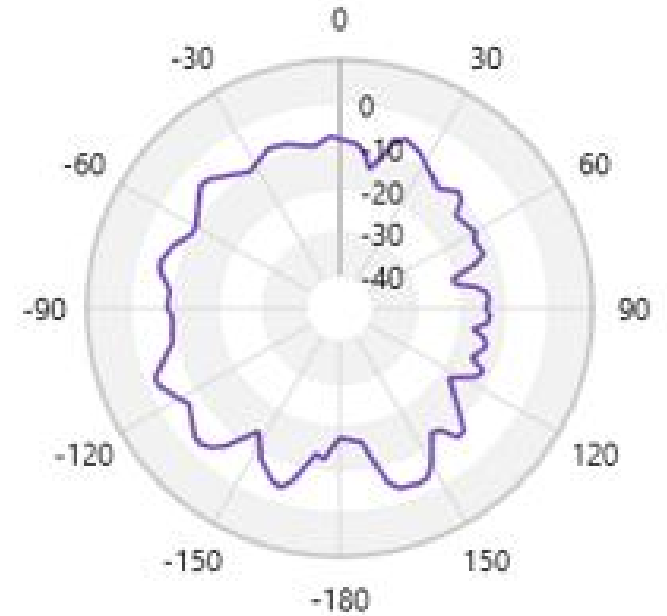
i ALP6Y-100003(Aux)



Z-Y



X-Y

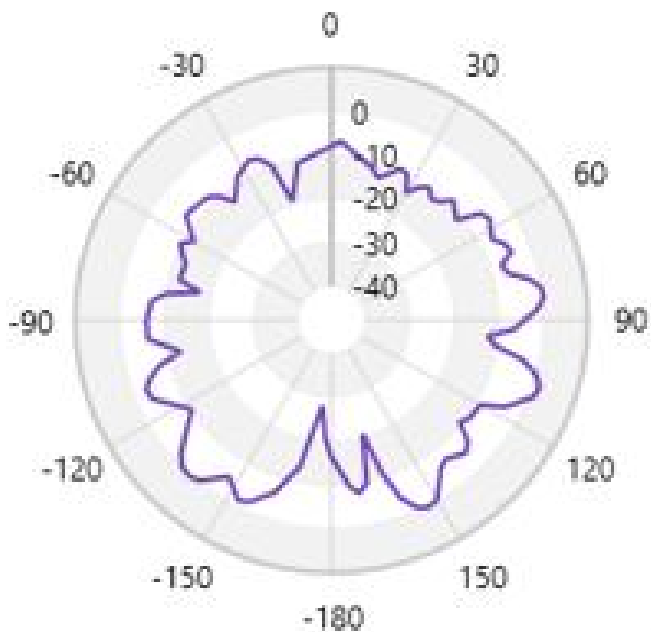


Z-X

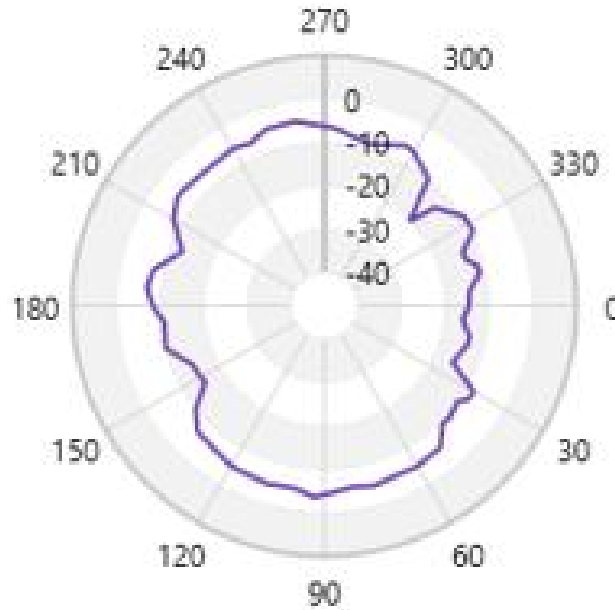


Radiation characteristics of antenna loaded in Host Platform @ 5850MHz:

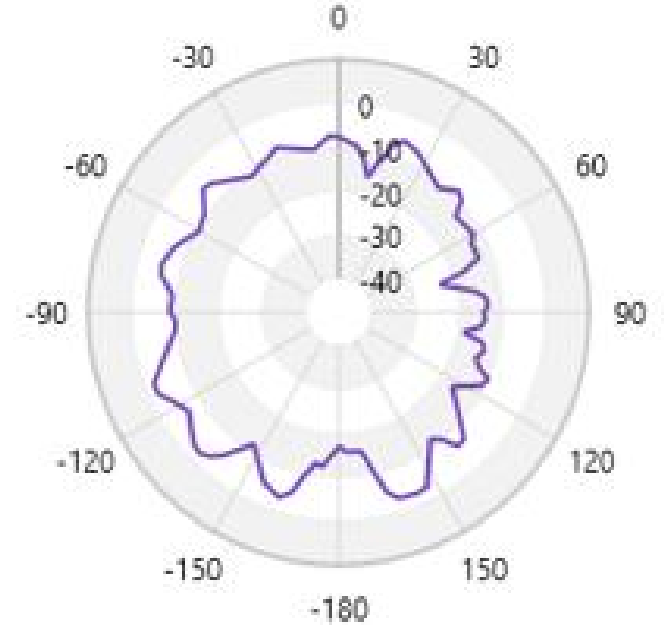
i ALP6Y-100003(Aux)



Z-Y



X-Y

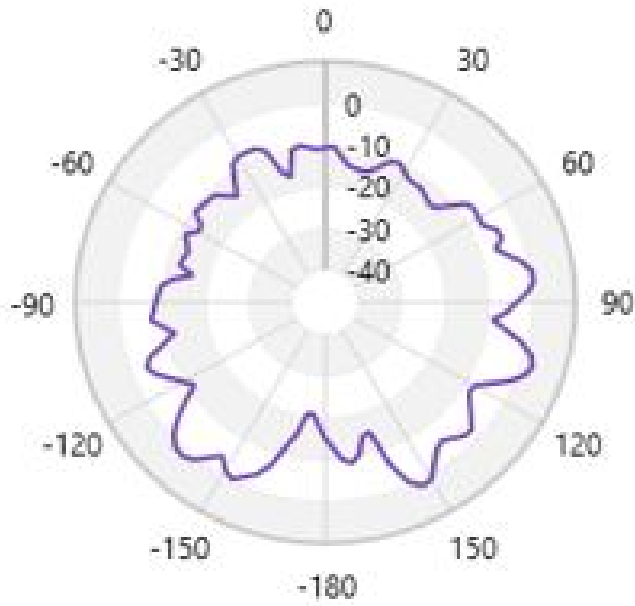


Z-X

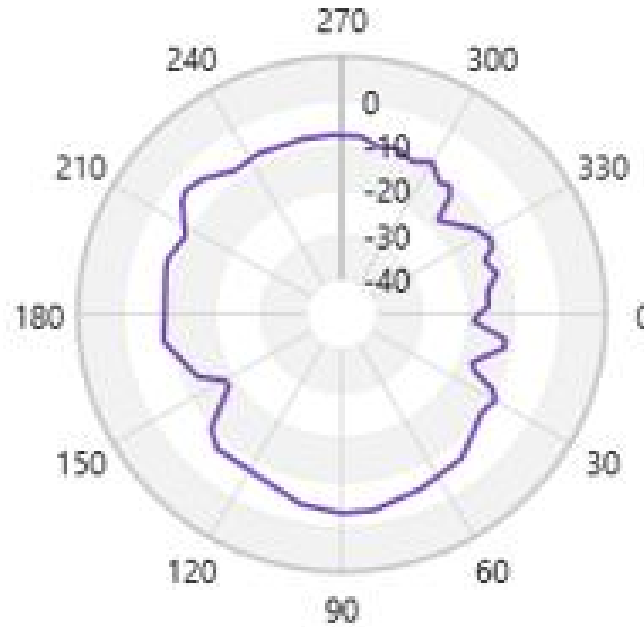


Radiation characteristics of antenna loaded in Host Platform @ 6125MHz:

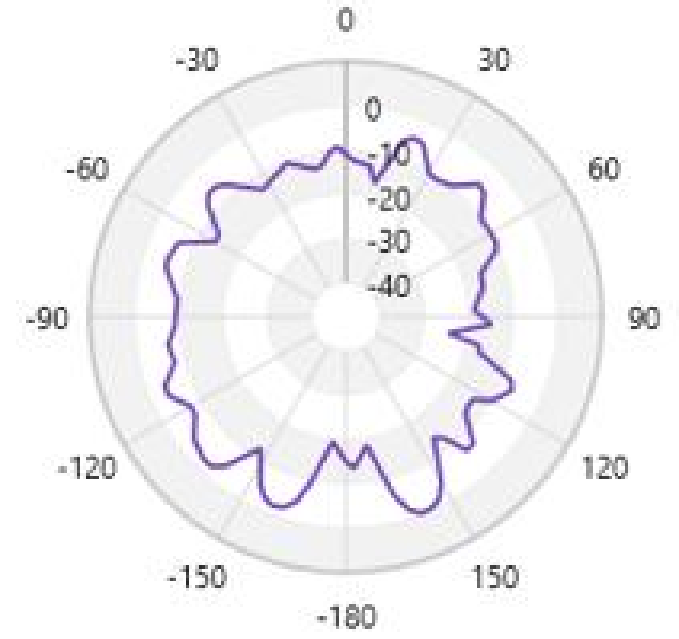
i ALP6Y-100003(Aux)



Z-Y



X-Y

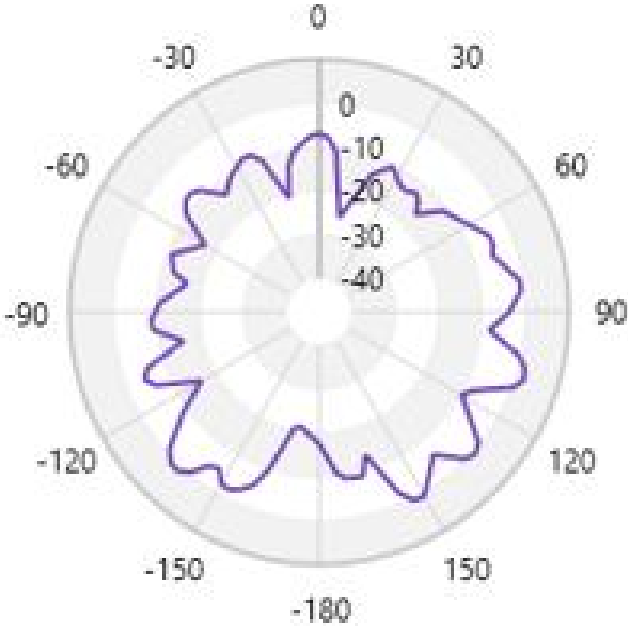


Z-X

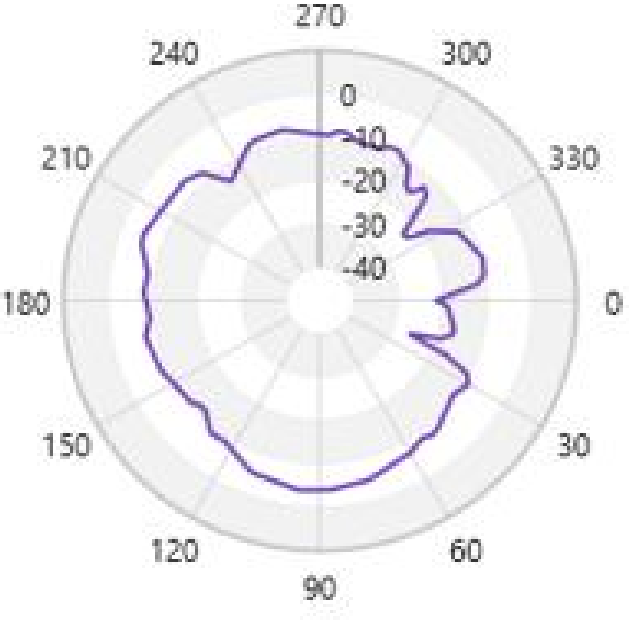


Radiation characteristics of antenna loaded in Host Platform @ 6525MHz:

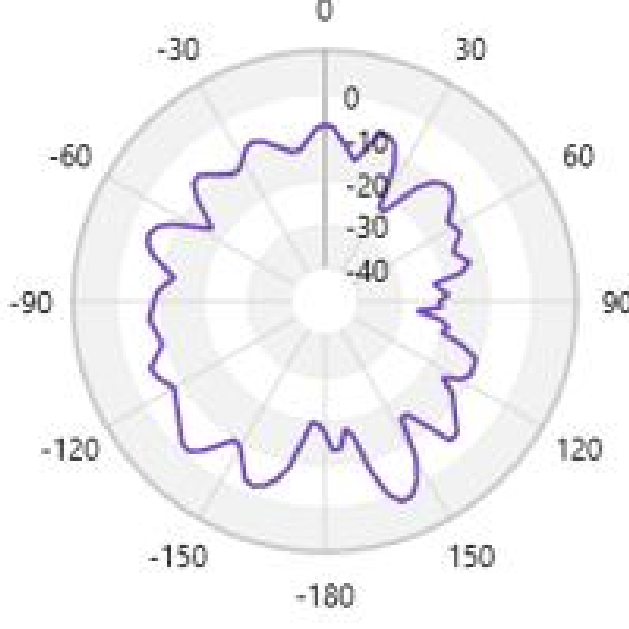
i ALP6Y-100003(Aux)



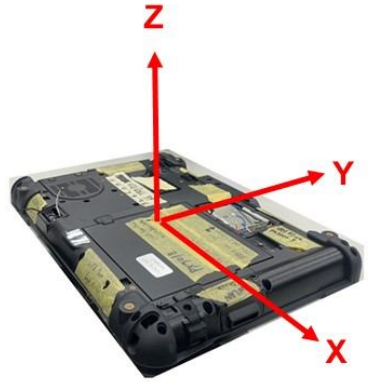
Z-Y



X-Y

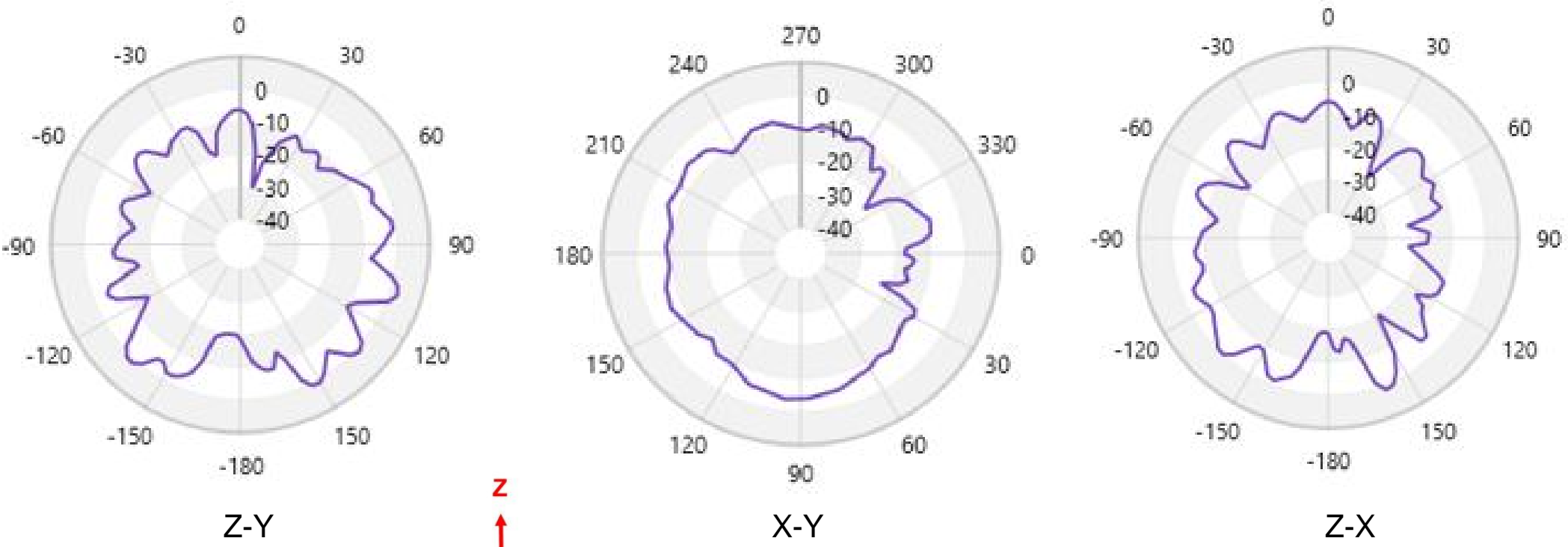


Z-X



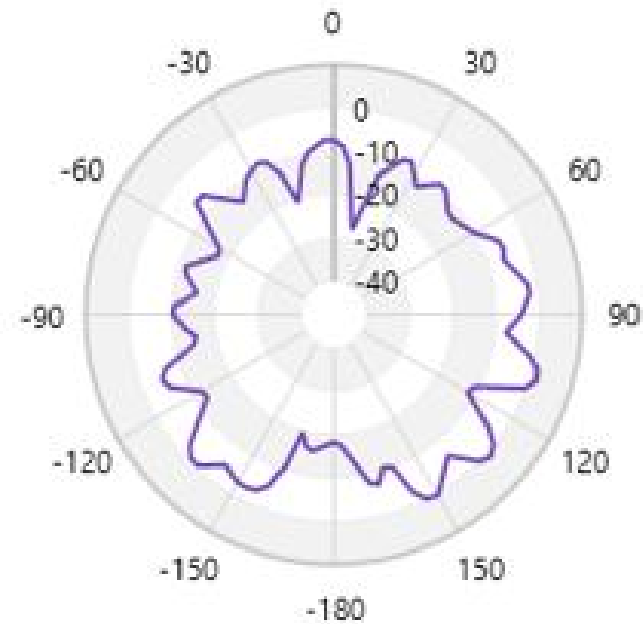
Radiation characteristics of antenna loaded in Host Platform @ 6625MHz:

i ALP6Y-100003(Aux)

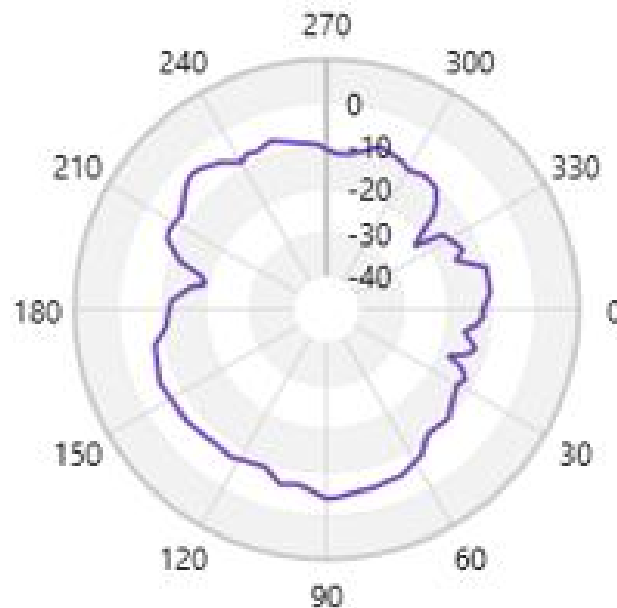


Radiation characteristics of antenna loaded in Host Platform @ 6925MHz:

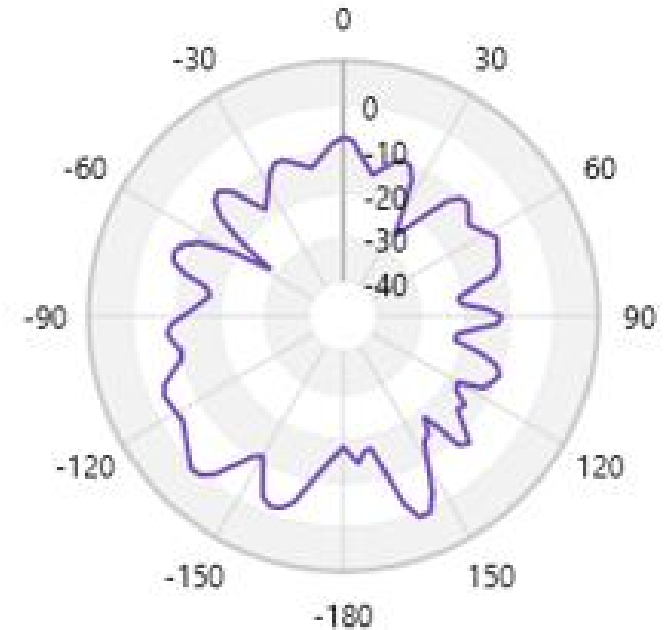
i ALP6Y-100003(Aux)



Z-Y



X-Y



Z-X

