

PX501_認證報告

Model Name : ALP6Y-100002(Main)

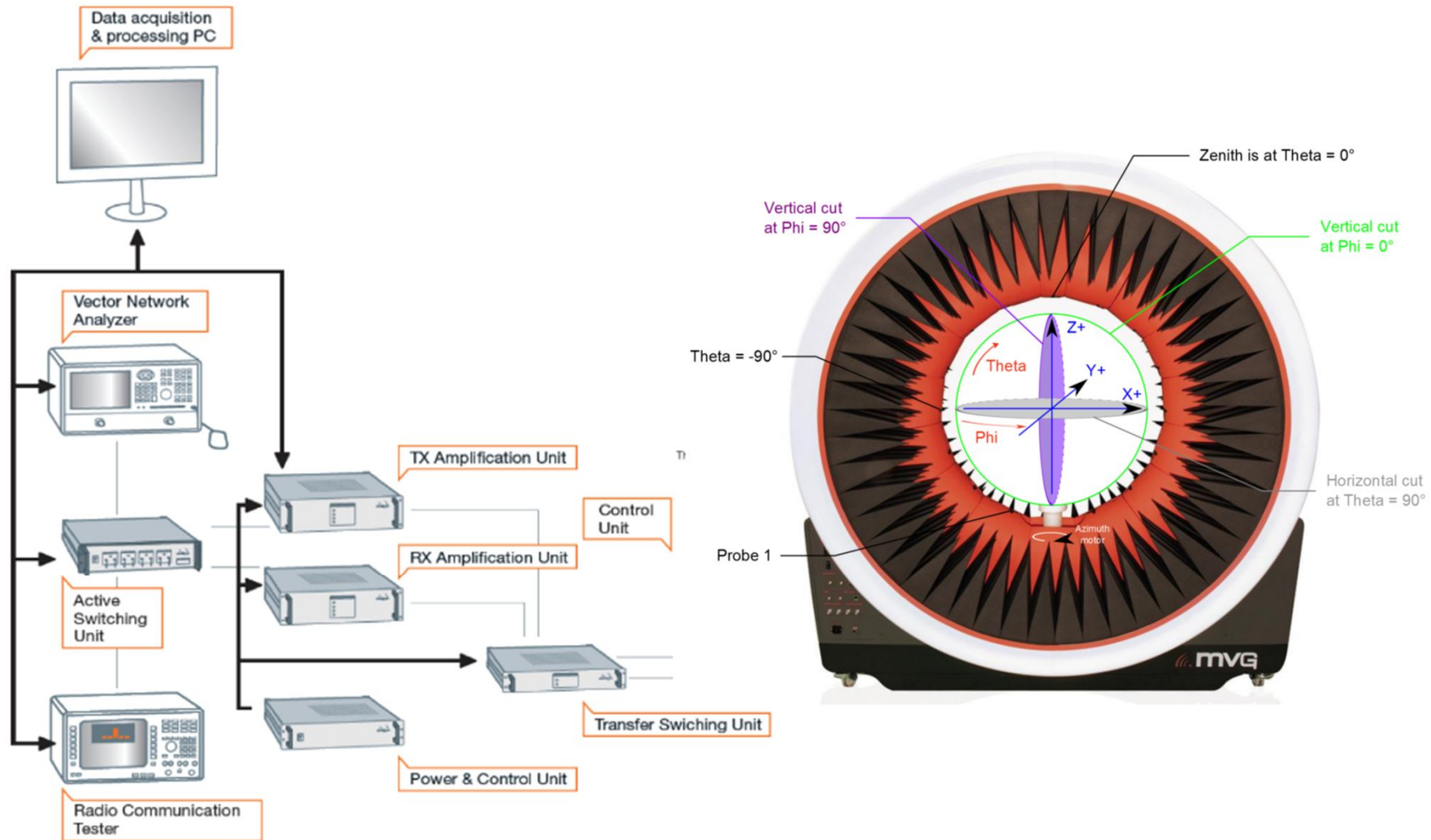
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Aantenna Test System



Specification

- . Product Number : ALP6Y-100002(Main)
- . Version :

Electrical Characteristics

- . Frequency (MHz) :2400-2500MHz, 5150-5850MHz, 5925-7125MHz
- . Return Loss : < -10 dB
- . Efficiency : 31~47%
- . Peak Gain : < 1 dBi
- . Impedance : 50 Ω
- . Polarization : Linear
- . Antenna Type : PIFA

Mechanical Characteristics

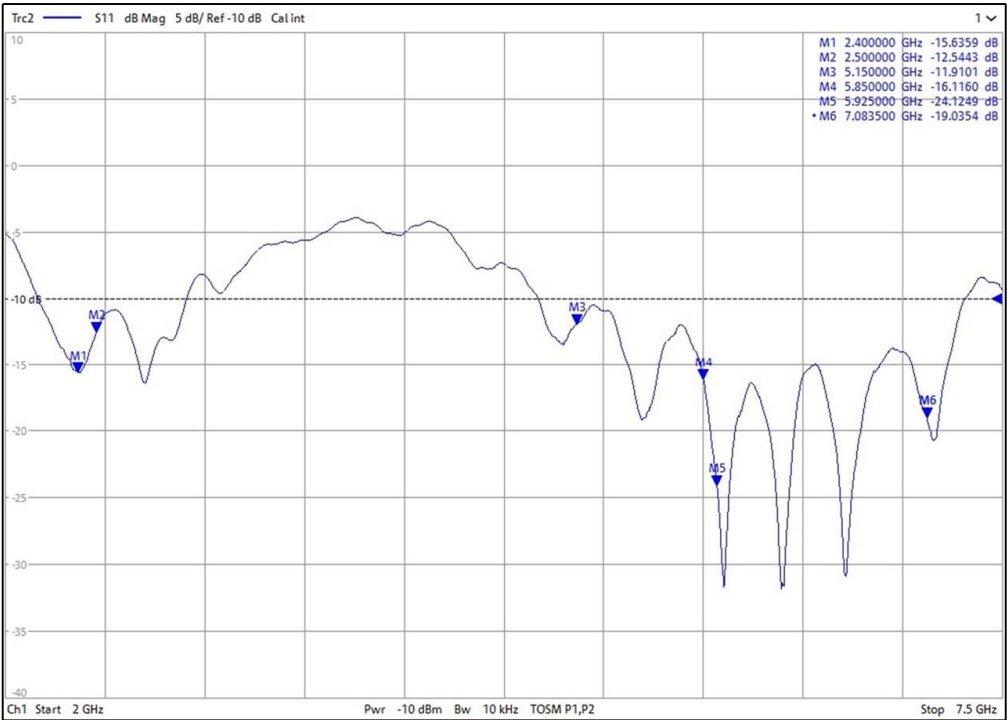
- . Cable / Connector : 1.13mm / IPEX
- . Material : SUS430

Environmental Condition

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

Return Test Data

i ALP6Y-100002(Main)



Gain / Efficiency Test Data

i ALP6Y-100002(Main)

Frequency (MHz)	2400	2450	2500	5150	5250	5350	5470	5600
Peak Gain (dBi)	0.10	0.68	0.87	0.78	0.29	0.23	0.79	0.88
Efficiency (dBi)	-4.03	-4.23	-4.07	-3.50	-3.69	-3.53	-3.33	-3.41
Efficiency (%)	39.54	37.76	39.17	44.67	42.76	44.36	46.45	45.60
Frequency (MHz)	5725	5785	5850	5925	6000	6125	6225	6325
Peak Gain (dBi)	0.89	0.68	0.97	0.89	0.95	0.98	0.88	0.93
Efficiency (dBi)	-3.80	-3.89	-3.85	-3.85	-4.14	-4.70	-4.89	-4.68
Efficiency (%)	41.69	40.83	41.21	41.21	38.55	33.88	32.43	34.04
Frequency (MHz)	6425	6525	6625	6725	6875	6925	7000	7125
Peak Gain (dBi)	0.95	0.96	0.83	0.81	0.87	0.35	0.33	0.11
Efficiency (dBi)	-5.04	-5.03	-4.82	-4.79	-5.03	-5.06	-5.01	-5.07
Efficiency (%)	31.33	31.41	32.96	33.19	31.41	31.19	31.55	31.12

i ALP6Y-100002(Main)

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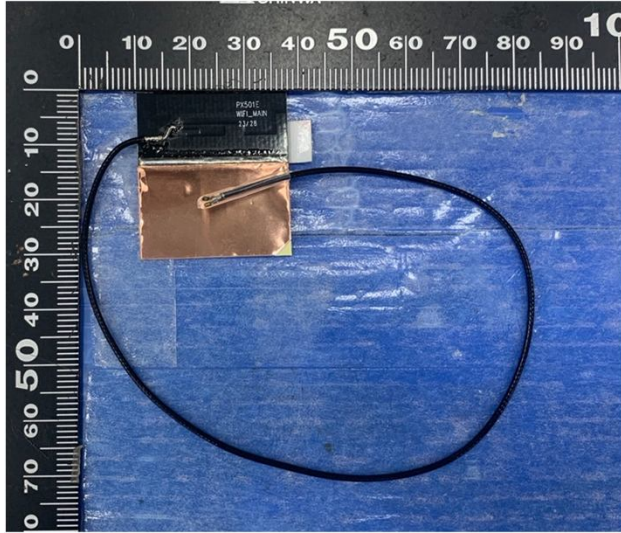
Antenna Assembly Specifications

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: 21U700066-002 Vender P/N: ALP6Y-100002	AWAN	PIFA	I-pex:四代頭 Coaxial length: 220mm Diameter: 1.13	2400-2500MHz	0.98	1.35	-7.5	0.37
				5150-5250MHz	1.29	1.86	-7.5	0.57
				5250-5350MHz	1.29	1.86	-7.5	0.57
				5470-5725MHz	1.89	2.49	-7.5	0.60
				5725-5850MHz	1.97	2.59	-7.5	0.62
				5925-6425MHz	1.98	2.62	-7.5	0.64
				6425-6525MHz	1.36	2.01	-7.5	0.65
				6525-6875MHz	1.83	2.50	-7.5	0.67
				6875-7125MHz	1.15	1.84	-7.5	0.69

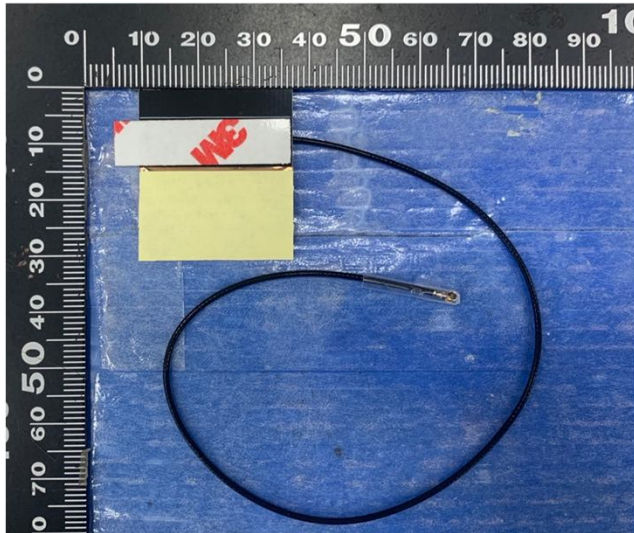
Antenna Photo (Front/Back):

i ALP6Y-100002(Main)

i Front

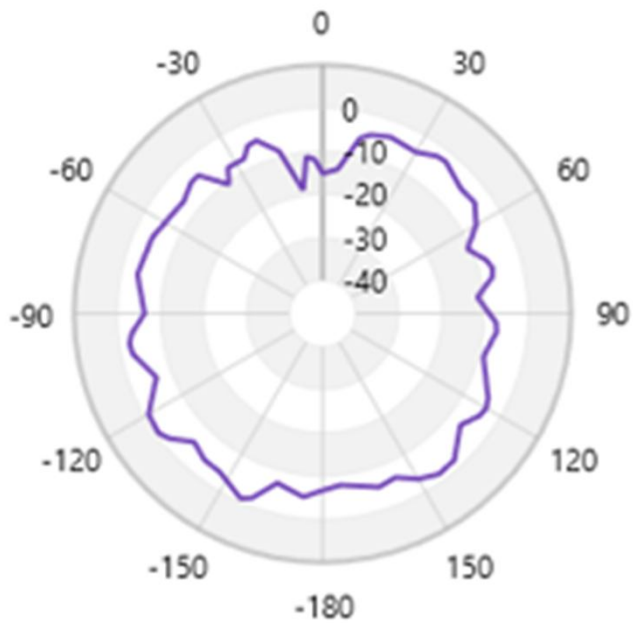


i Back

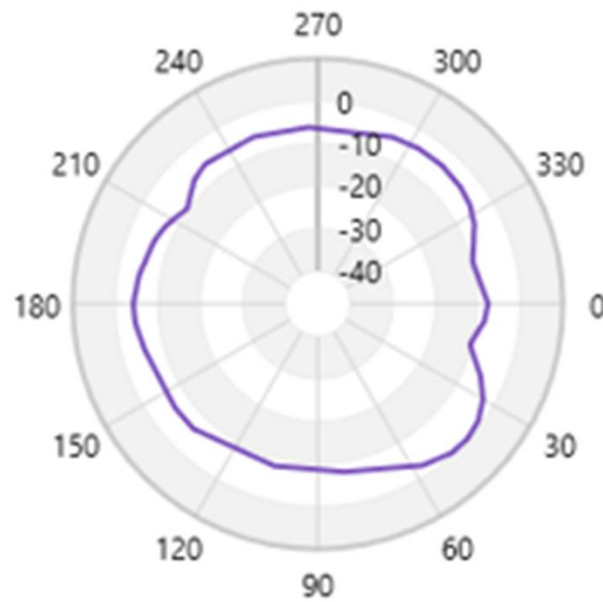


Radiation characteristics of antenna loaded in Host Platform @ 2450MHz:

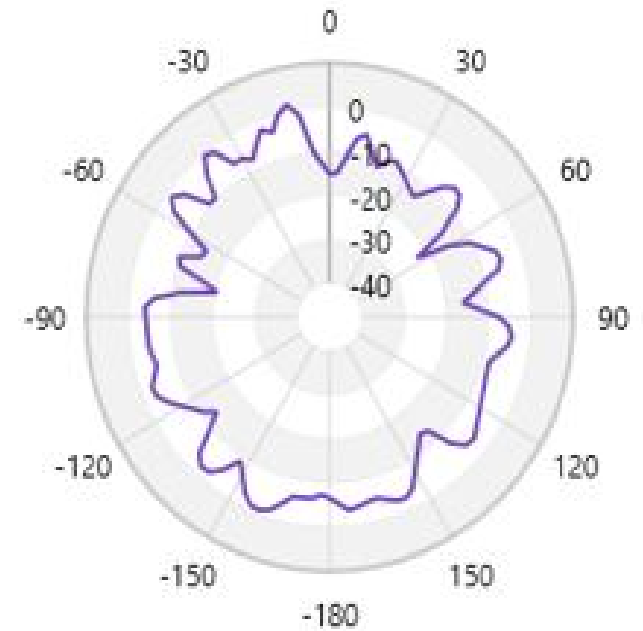
i ALP6Y-100002(Main)



Z-Y



X-Y

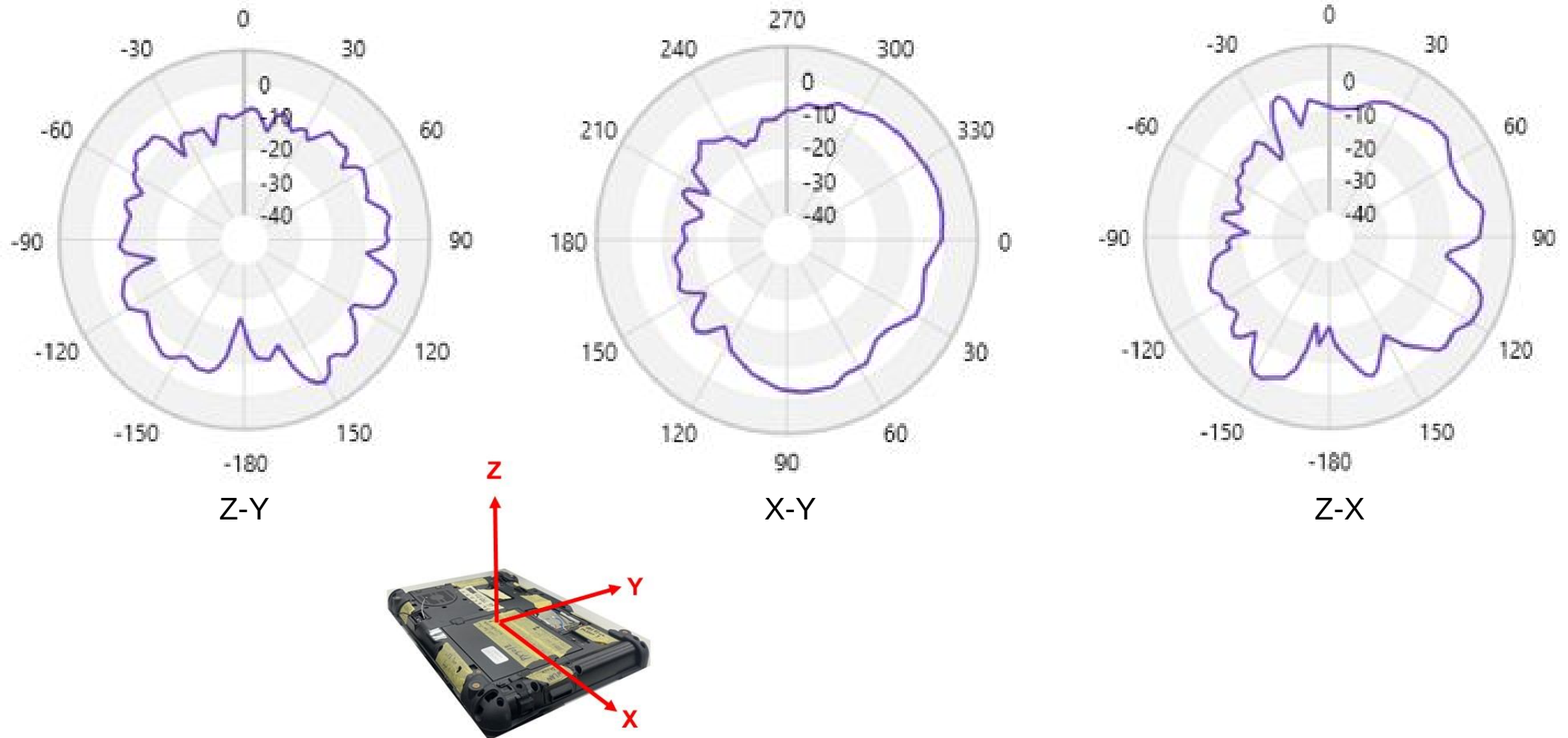


Z-X



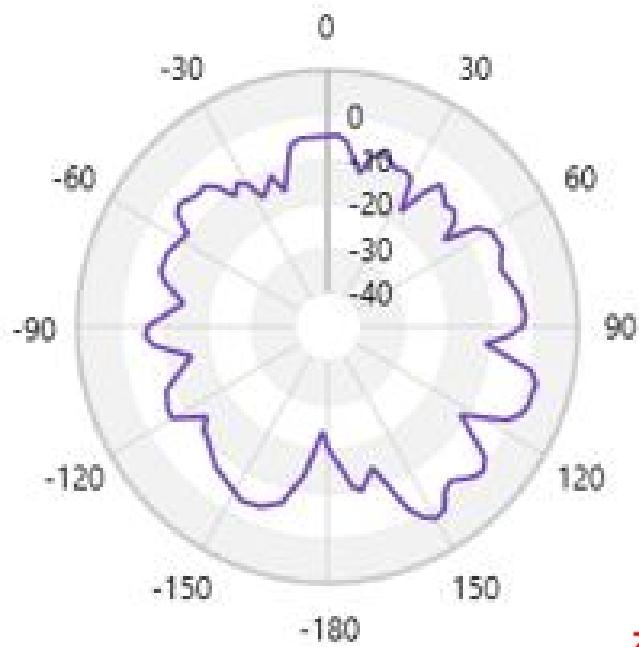
Radiation characteristics of antenna loaded in Host Platform @ 5250MHz:

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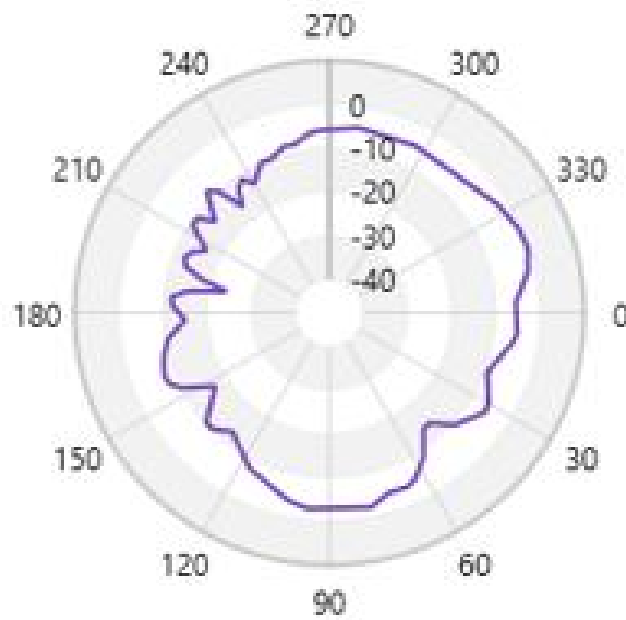


Radiation characteristics of antenna loaded in Host Platform @ 5725MHz:

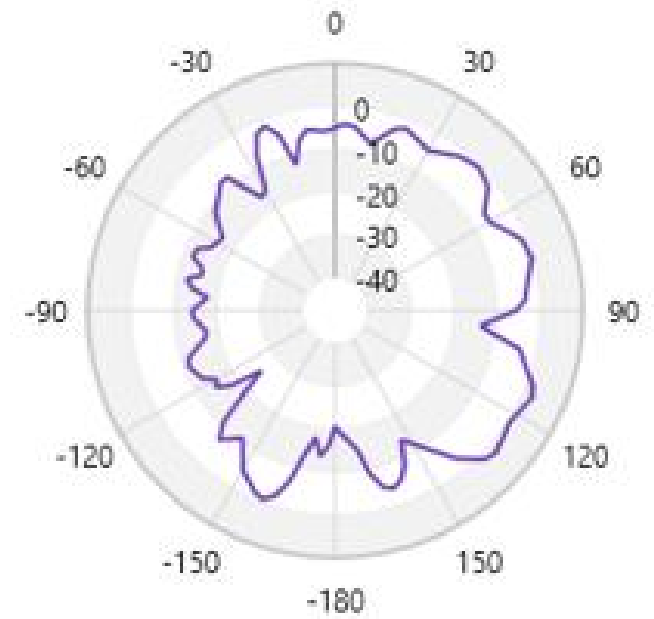
i ALP6Y-100002(Main)



Z-Y



X-Y

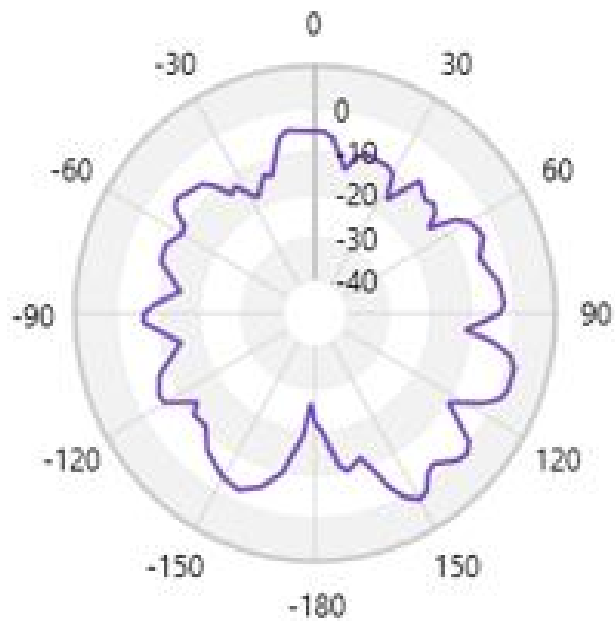


Z-X

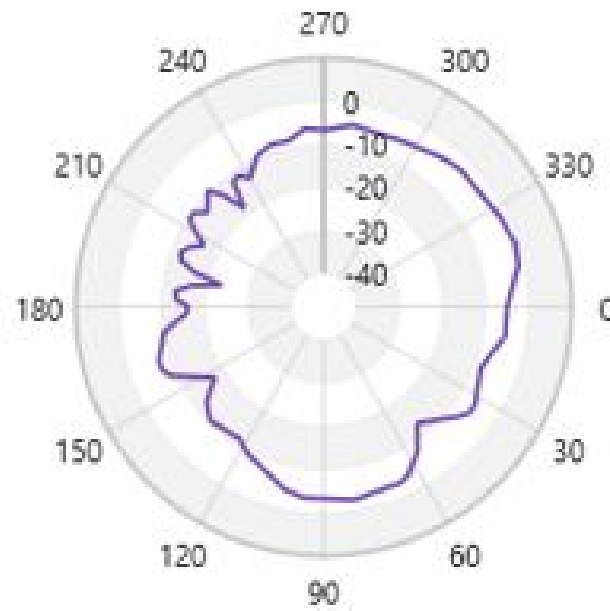


Radiation characteristics of antenna loaded in Host Platform @ 5850MHz:

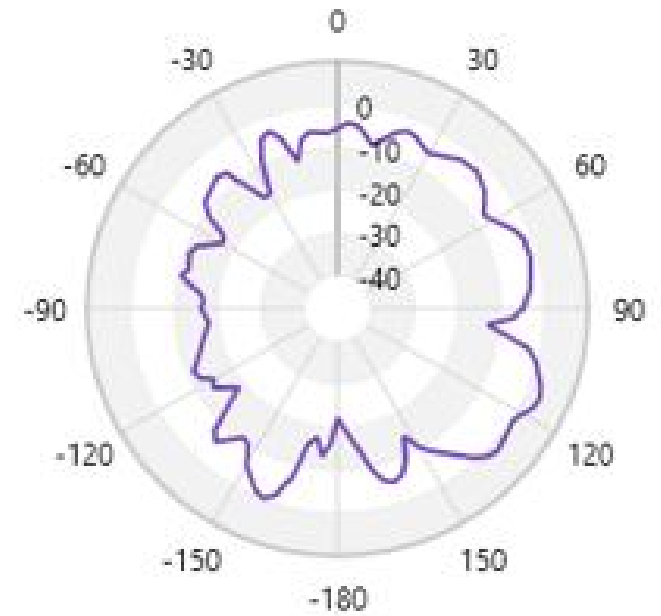
i ALP6Y-100002(Main)



Z-Y



X-Y

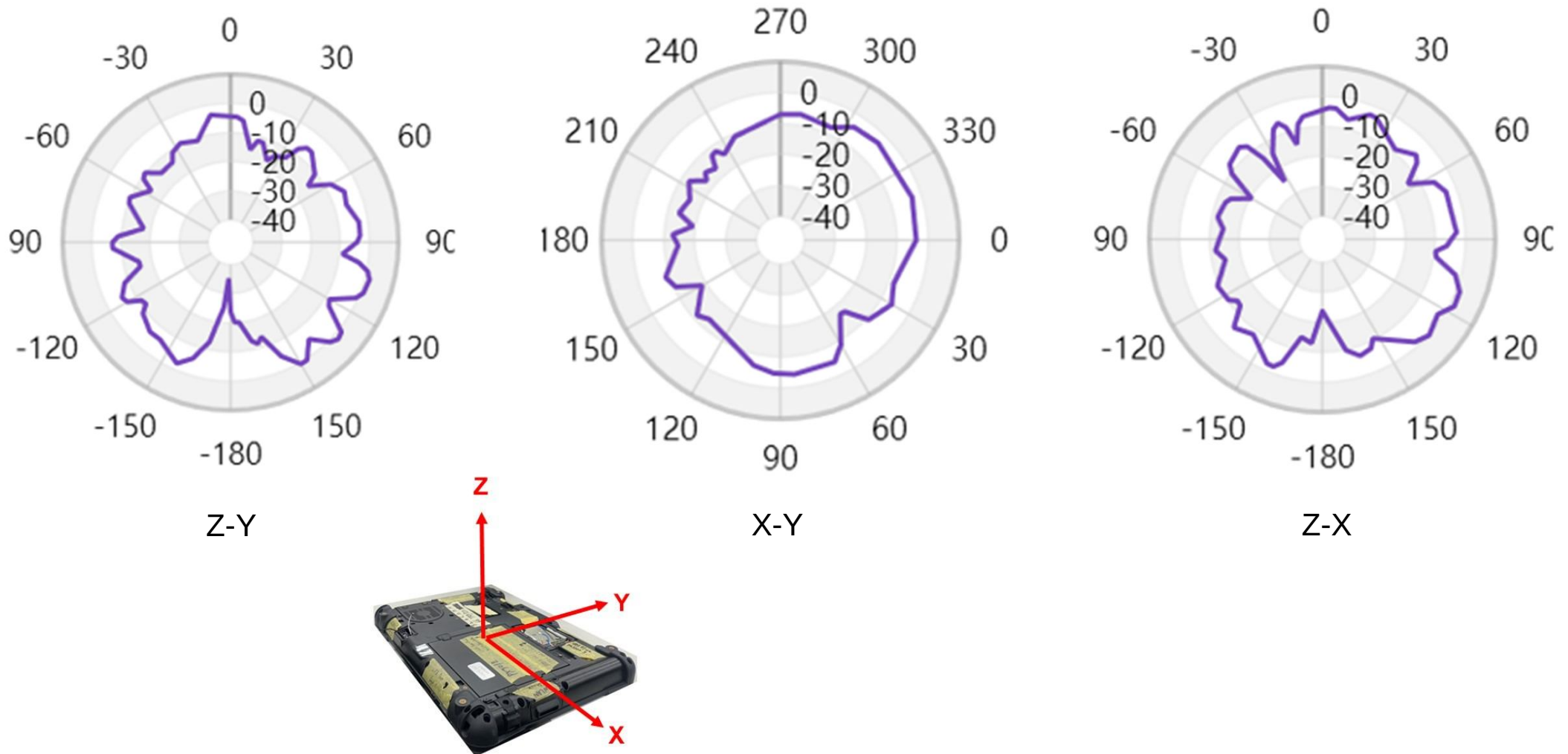


Z-X



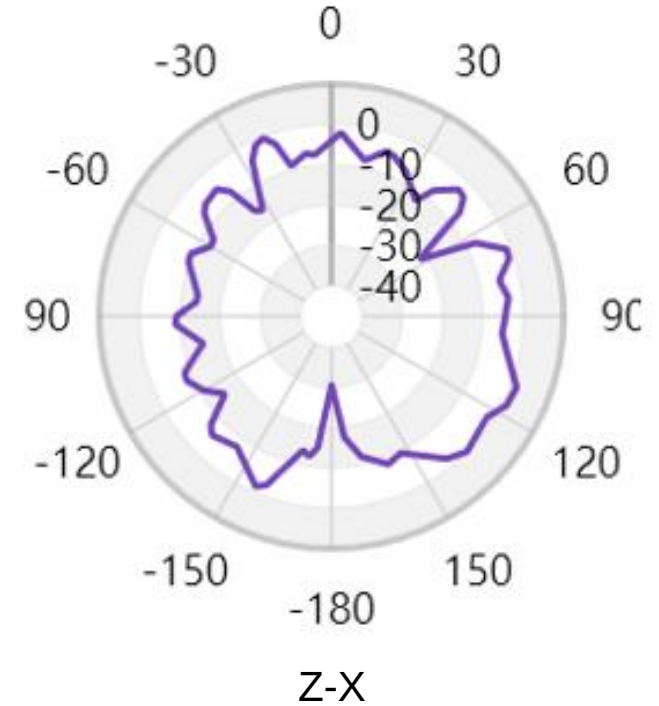
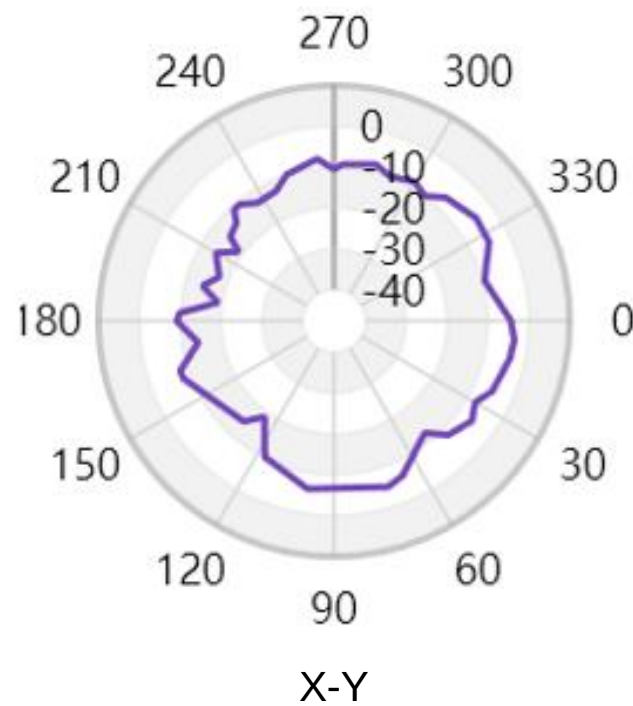
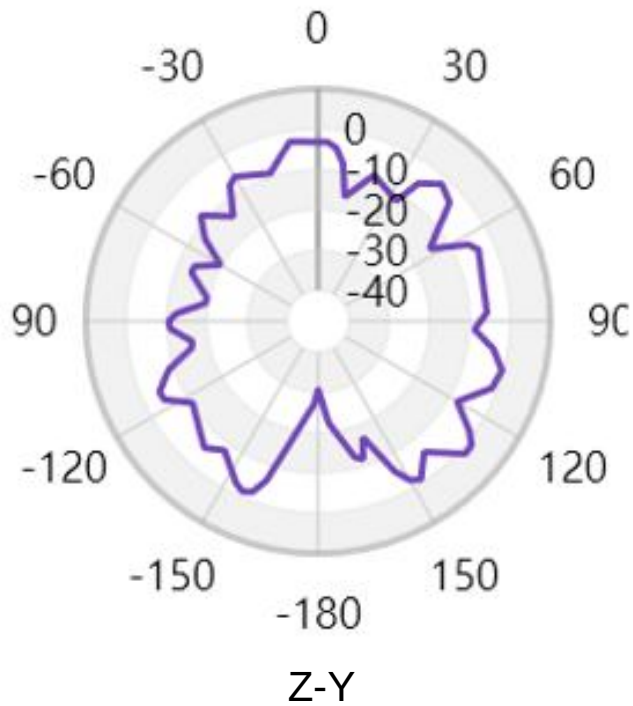
Radiation characteristics of antenna loaded in Host Platform @ 6125MHz:

i ALP6Y-100002(Main)



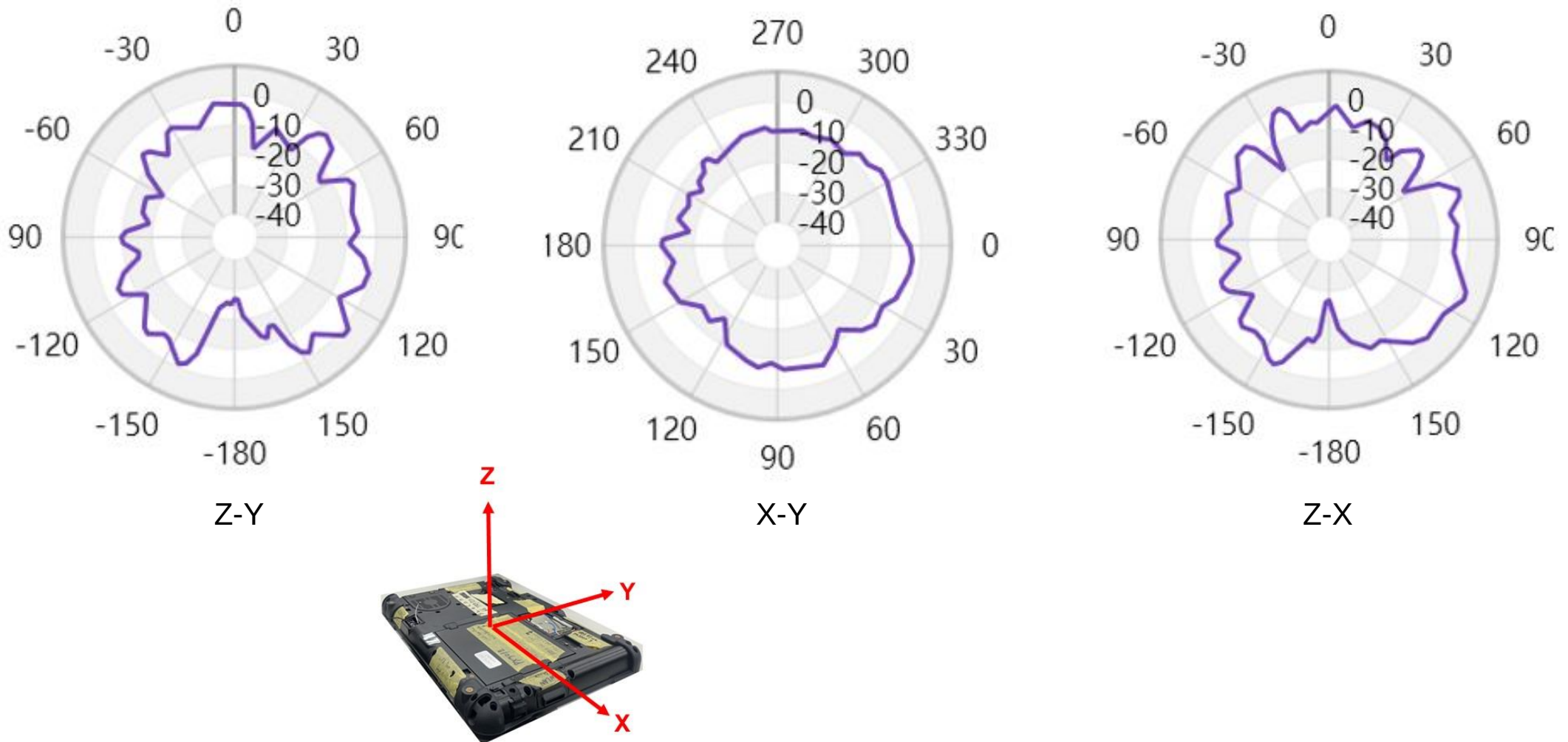
Radiation characteristics of antenna loaded in Host Platform @ 6525MHz:

i ALP6Y-100002(Main)



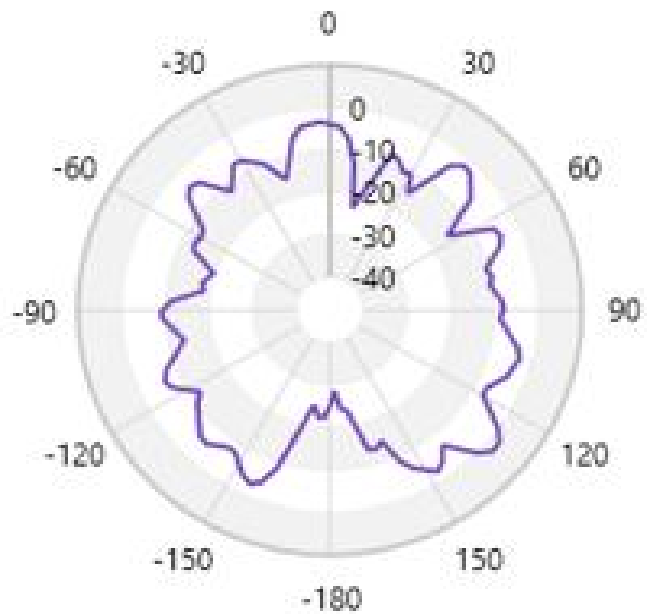
Radiation characteristics of antenna loaded in Host Platform @ 6625MHz:

i ALP6Y-100002(Main)

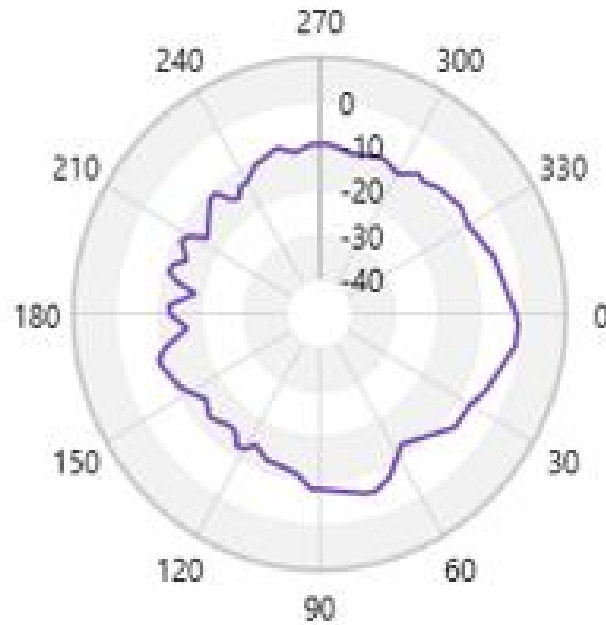


Radiation characteristics of antenna loaded in Host Platform @ 6925MHz:

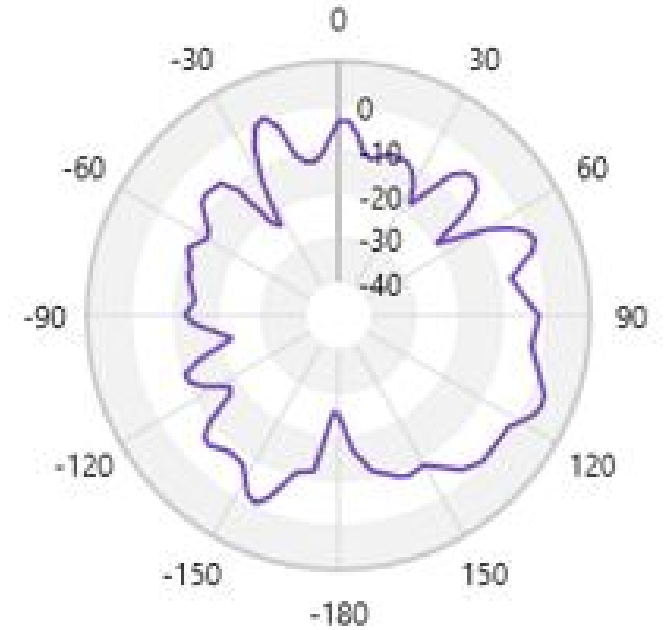
i ALP6Y-100002(Main)



Z-Y



X-Y



Z-X

