

Viking Certification Report

Model Name : ALP6Y-100012(Aux)

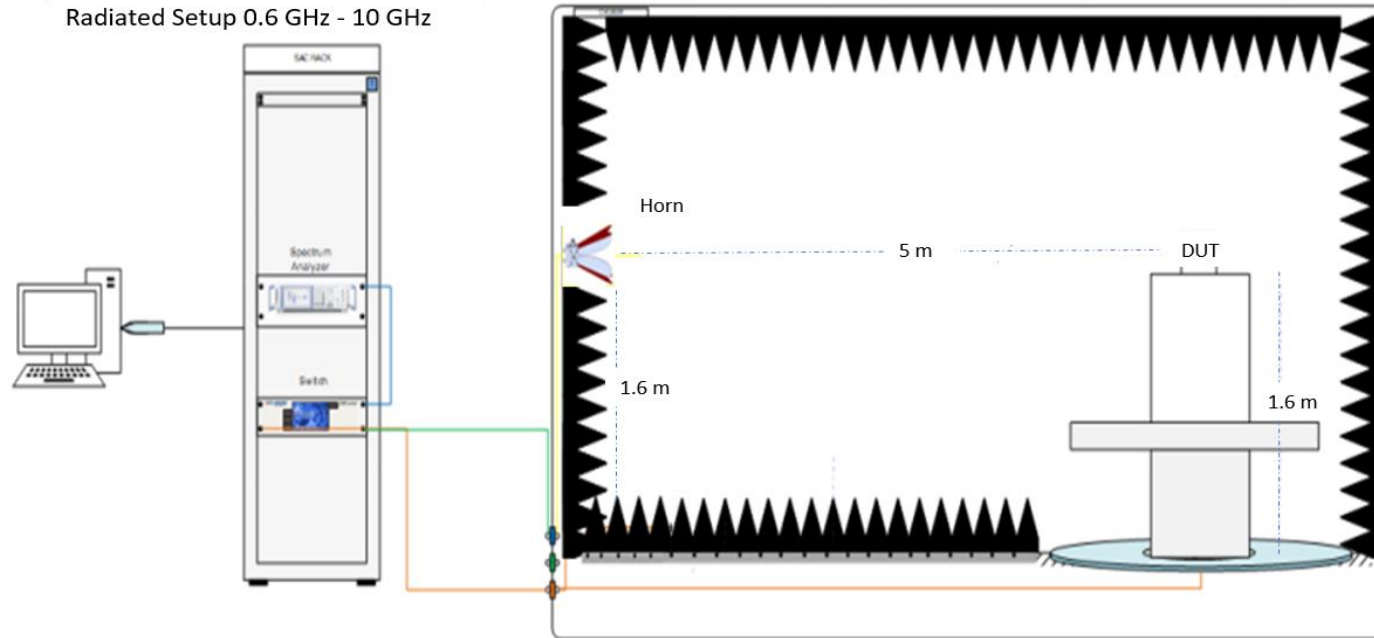
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Aantenna Test System



Device	Type/Module	Serial#	Manufacturer	Cal. Date	Cal. Due Date
Anechoic Chamber	AMS-8500	1047	ETS-Lindgren	2024/2/21	2025/8/21
Turn Table	ETS	-	ETS-Lindgren	N/A	N/A
Rotate controller	2090	SN 00035073	ETS-Lindgren	N/A	N/A
Horn Antenna	HAD-0710	111025-02	Bwant	2023/3/16	2025/3/16
Vector Network Analyzer	E5071C	MY46733781	Keysight	2022/1/21	2025/1/21
Cable 40cm 18 GHz	201EH012010400	201EH012010400#1	Jmtt	2024/1/22	2025/1/27
Cable 6m 18 GHz	201EH012016000	201EH012016000#3	Jmtt	2024/1/22	2025/1/22
Cable 6m 18 GHz	201EH012016000	201EH012016000#5	Jmtt	2024/1/22	2025/1/22
Cable 3.5m 18 GHz	201EH012013500	201EH012013500#3	Jmtt	2024/1/22	2025/1/22
Cable 1.5m 18 GHz	201EH012011500	201EH012011500#2	Jmtt	2024/1/22	2025/1/22

Specification

- . Product Number : ALP6Y-100011(Main) 、 ALP6Y-100012(Aux)
- . Version :

Electrical Characteristics

- . Frequency (MHz) :2400-2500MHz, 5150-5850MHz, 5925-7125MHz
VSWR: < 4 MAX
- . Efficiency : >50%
- . Peak Gain (MHz) : 1.98 dBi
- . Impedance : 50 Ω
- . Polarization : Linear
- . Antenna Type : PIFA

Mechanical Characteristics

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

Environmental Condition

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

Return Test Data

i ALP6Y-100012(Aux)



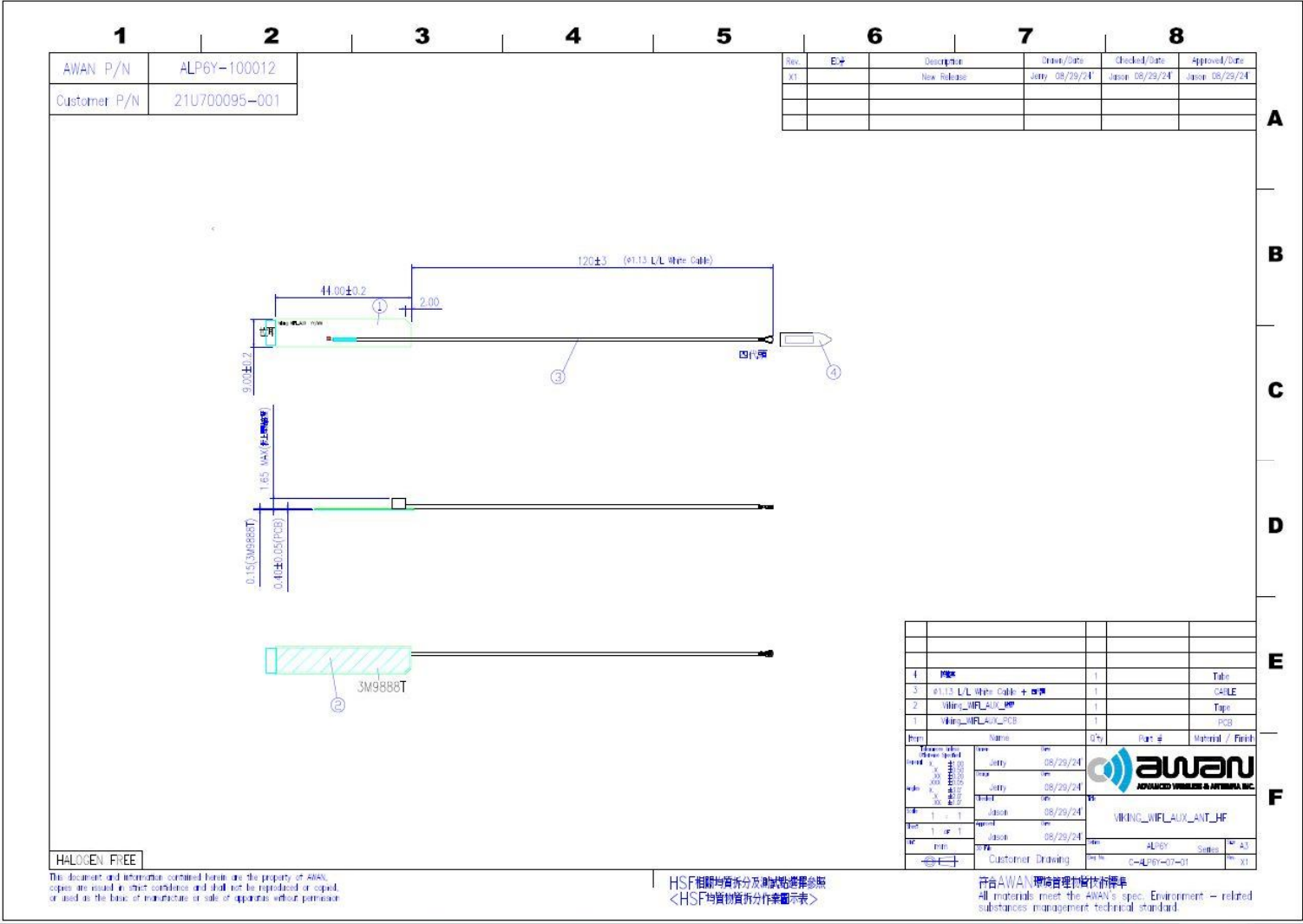
Gain / Efficiency Test Data

i ALP6Y-100012(Aux)

Frequency (MHz)	2400	2450	2500	5150	5250	5350	5470	5600
Peak Gain (dBi)	1.65	1.90	1.15	1.17	1.98	1.86	1.89	1.85
Efficiency (dBi)	-2.77	-2.83	-2.91	-2.72	-2.64	-2.56	-2.41	-2.32
Efficiency (%)	52.83	52.12	51.17	53.43	54.48	55.53	57.46	58.61
Frequency (MHz)	5725	5785	5850	5925	6000	6125	6225	6325
Peak Gain (dBi)	1.82	1.88	1.92	1.95	1.94	1.92	1.88	1.84
Efficiency (dBi)	-2.45	-2.55	-2.51	-2.48	-2.24	-2.47	-2.20	-2.17
Efficiency (%)	56.94	55.59	56.09	56.51	59.73	56.68	60.31	60.69
Frequency (MHz)	6425	6525	6625	6725	6875	6925	7000	7125
Peak Gain (dBi)	1.93	1.96	1.92	1.86	1.32	1.52	1.96	1.82
Efficiency (dBi)	-2.23	-2.34	-2.31	-2.46	-2.68	-2.79	-2.77	-2.80
Efficiency (%)	59.79	58.29	58.80	56.72	54.00	52.58	52.89	52.44

Drawing Layout

i ALP6Y-100012(Aux)



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 VSWR	Cable Loss (dB)
P/N: 21U700095-001 Vender P/N: ALP6Y-100012 Aux Antenna	AWAN	PIFA	I-PEX:MHF4 Coaxial length: 120mm Diameter: 1.13	2400-2500MHz	1.90	2.20	4	0.30
				5150-5250MHz	1.98	2.48	4	0.50
				5250-5350MHz	1.98	2.48	4	0.50
				5470-5725MHz	1.89	2.39	4	0.50
				5725-5850MHz	1.92	2.43	4	0.51
				5925-6425MHz	1.95	2.47	4	0.52
				6425-6525MHz	1.96	2.48	4	0.52
				6525-6875MHz	1.96	2.48	4	0.52
				6875-7125MHz	1.96	2.54	4	0.58

Antenna Photo (Front/Back):

i ALP6Y-100012(Aux)

i Front

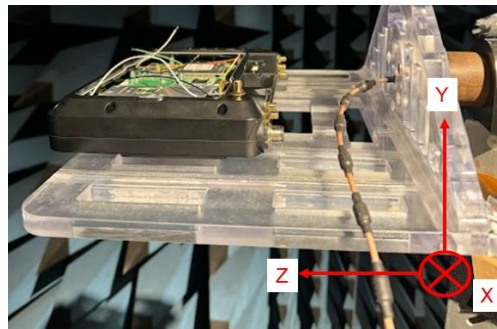
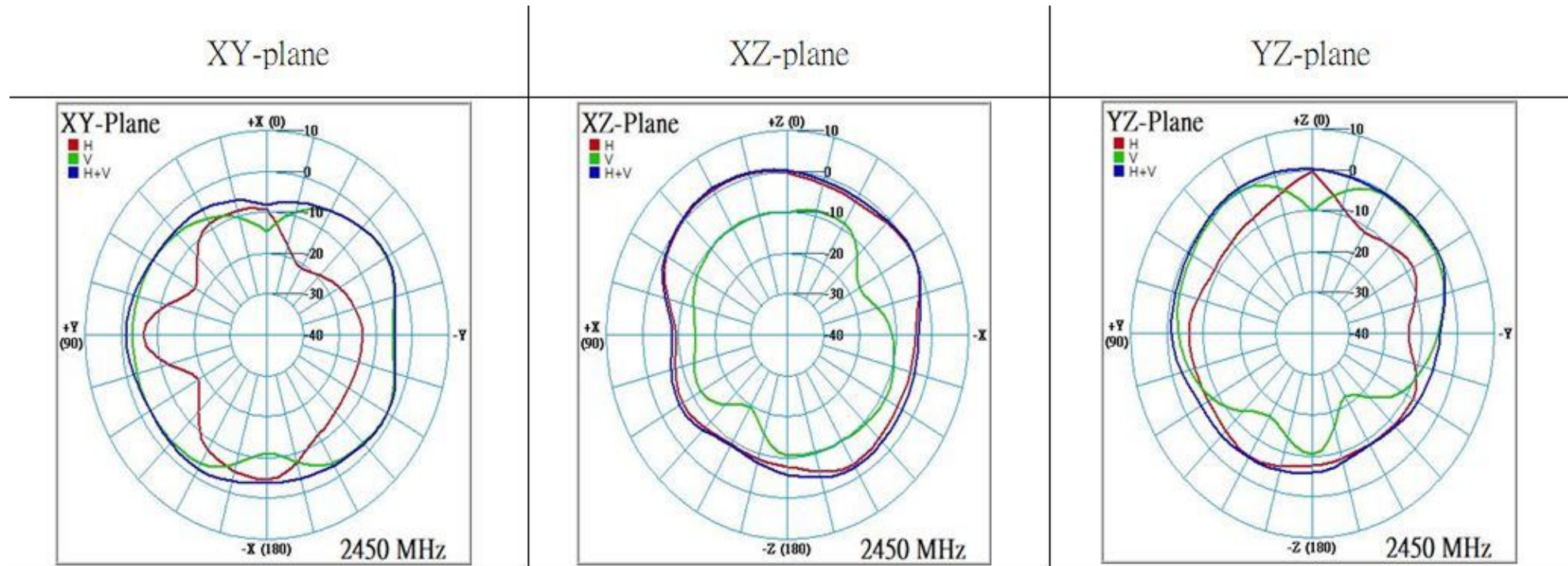


i Back



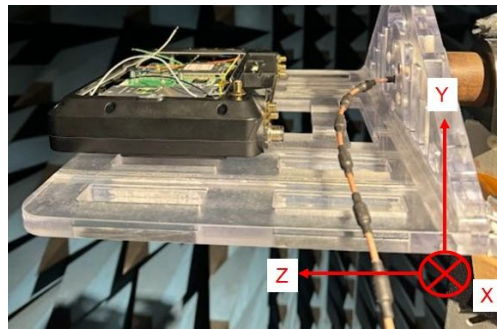
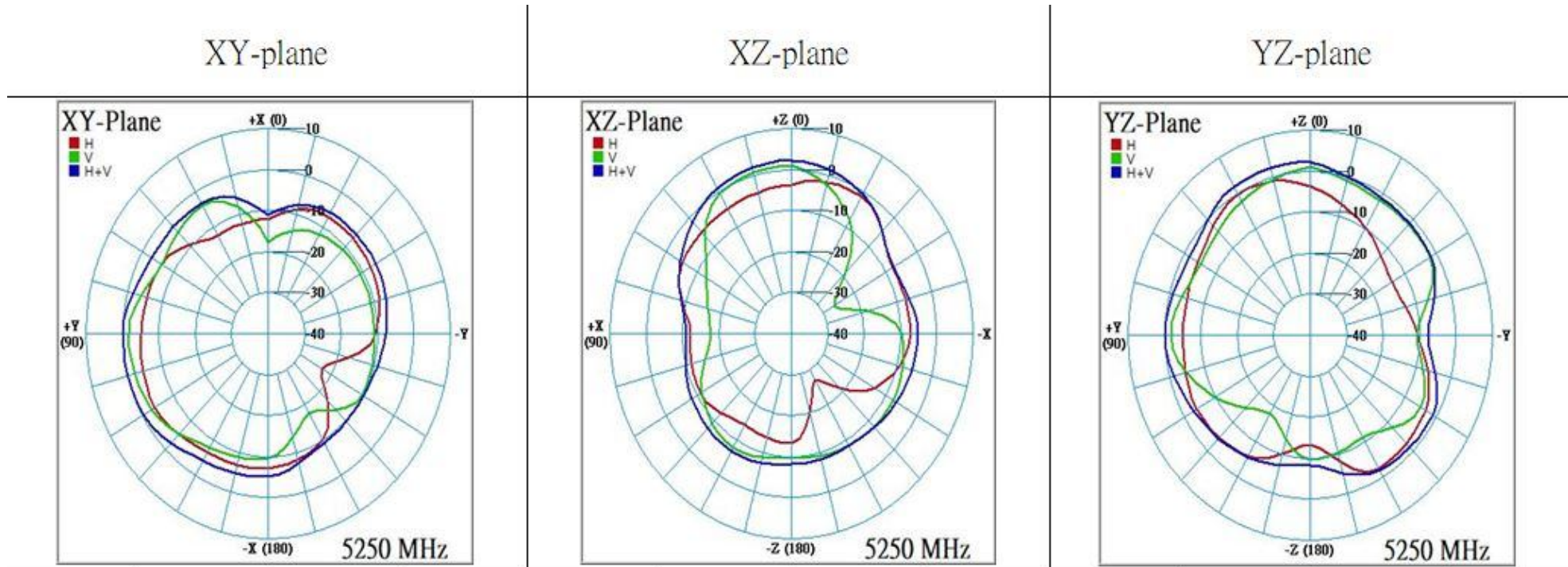
Radiation characteristics of antenna loaded in Host Platform @ 2450MHz:

i ALP6Y-100012(Aux)



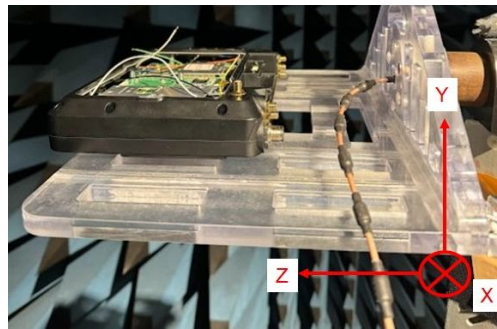
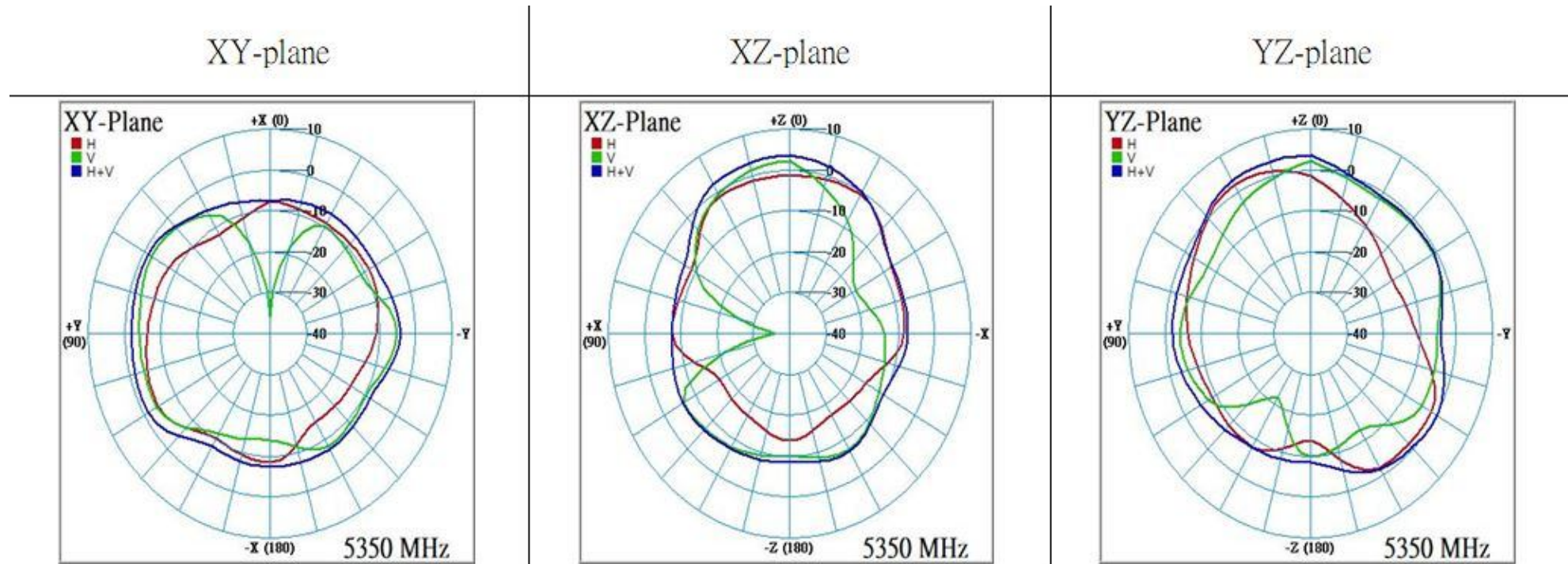
Radiation characteristics of antenna loaded in Host Platform @ 5250MHz:

i ALP6Y-100012(Aux)



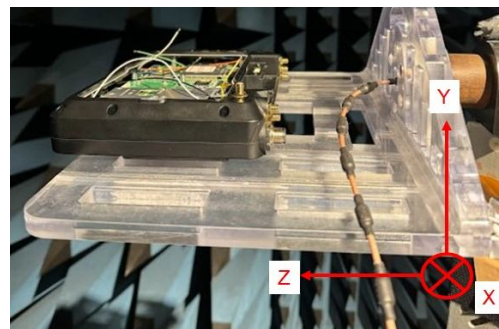
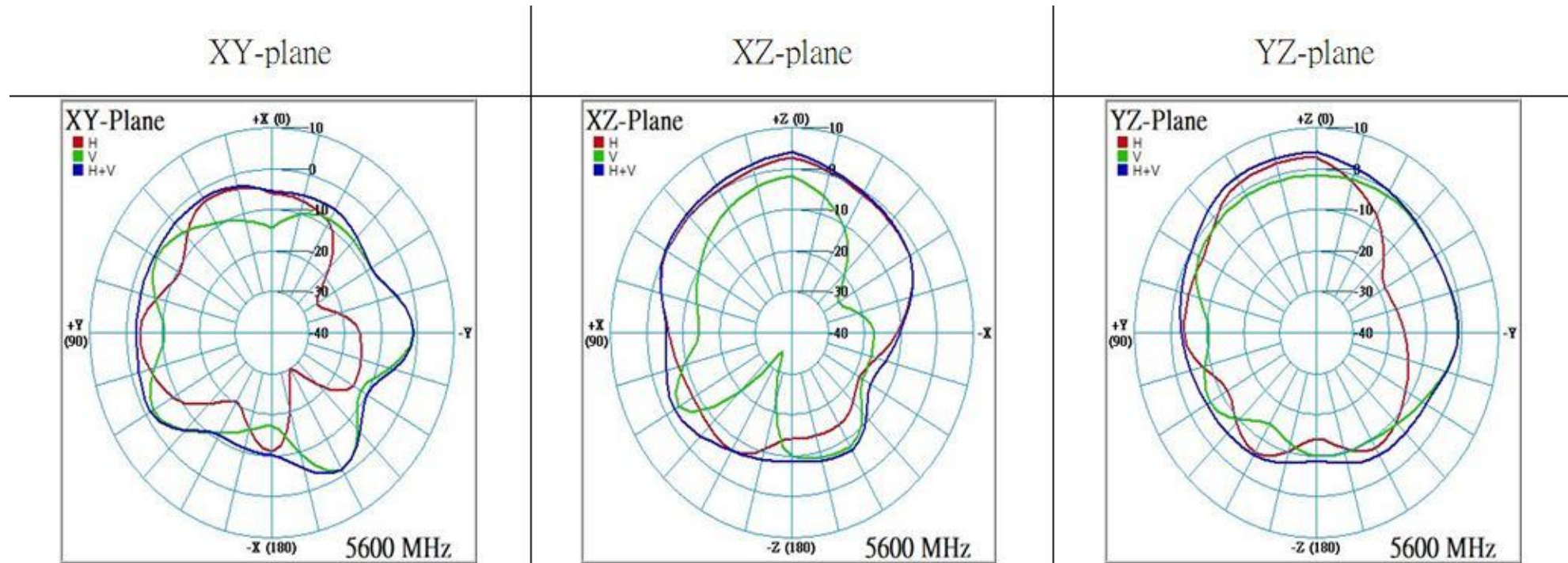
Radiation characteristics of antenna loaded in Host Platform @ 5350MHz:

i ALP6Y-100012(Aux)



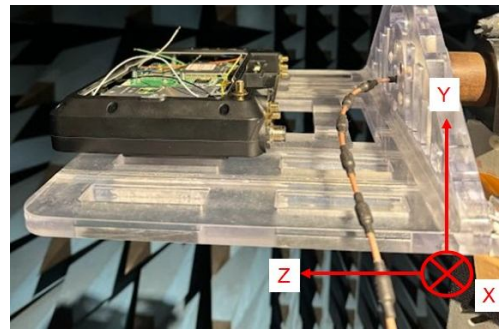
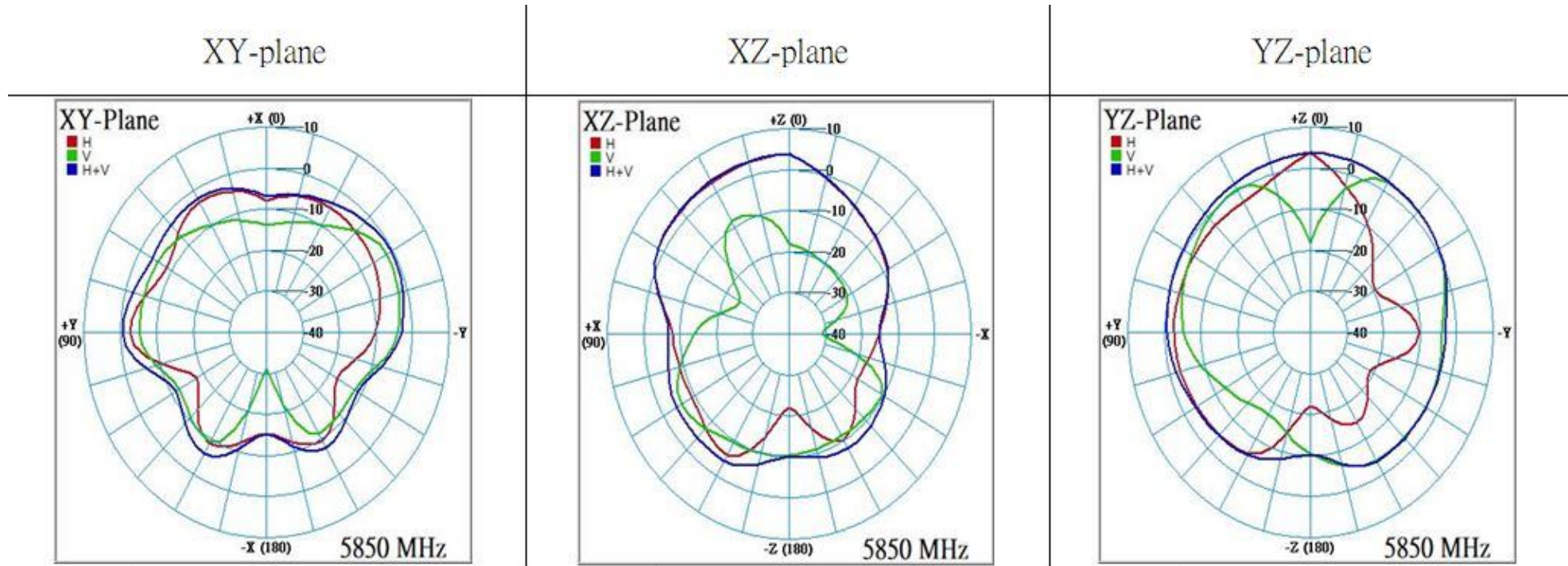
Radiation characteristics of antenna loaded in Host Platform @ 5600MHz:

i ALP6Y-100012(Aux)



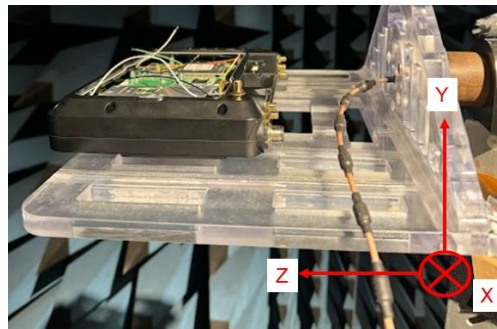
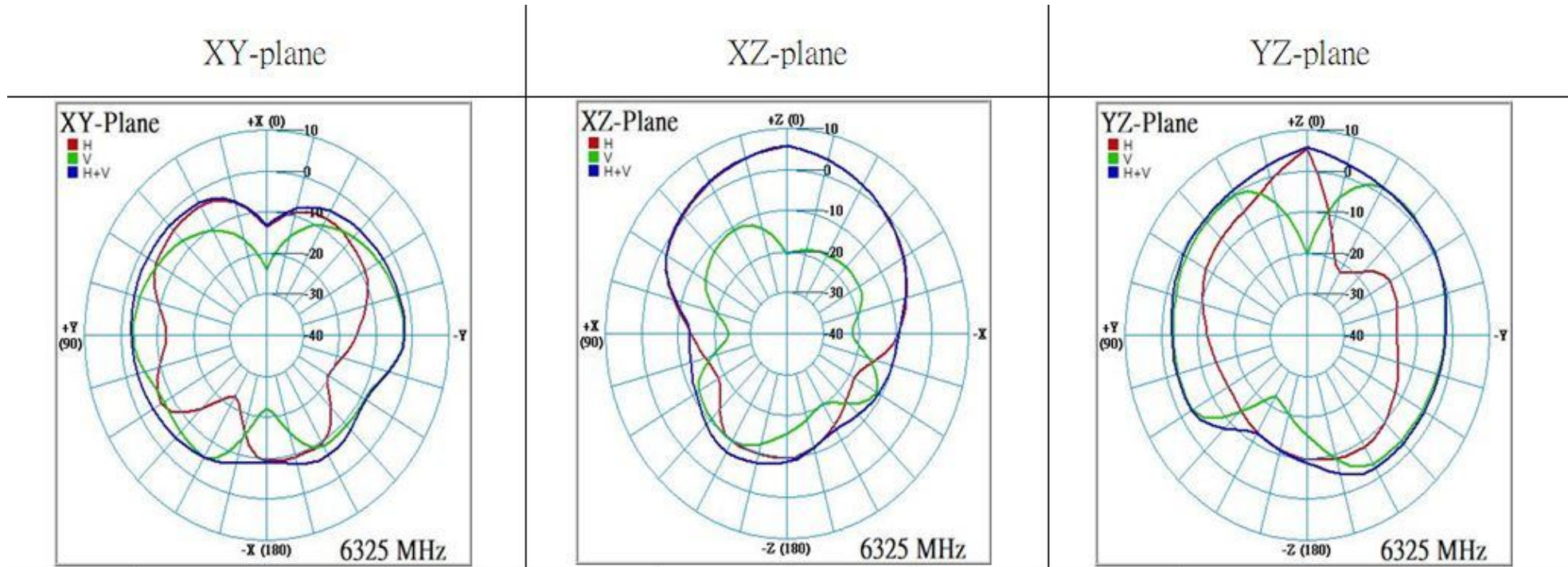
Radiation characteristics of antenna loaded in Host Platform @ 5850MHz:

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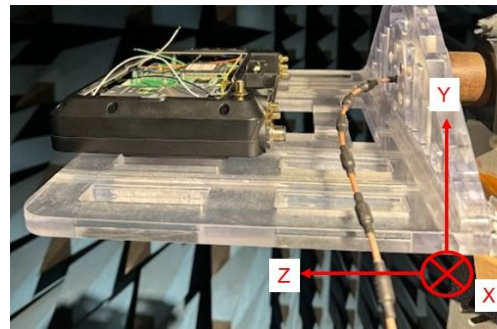
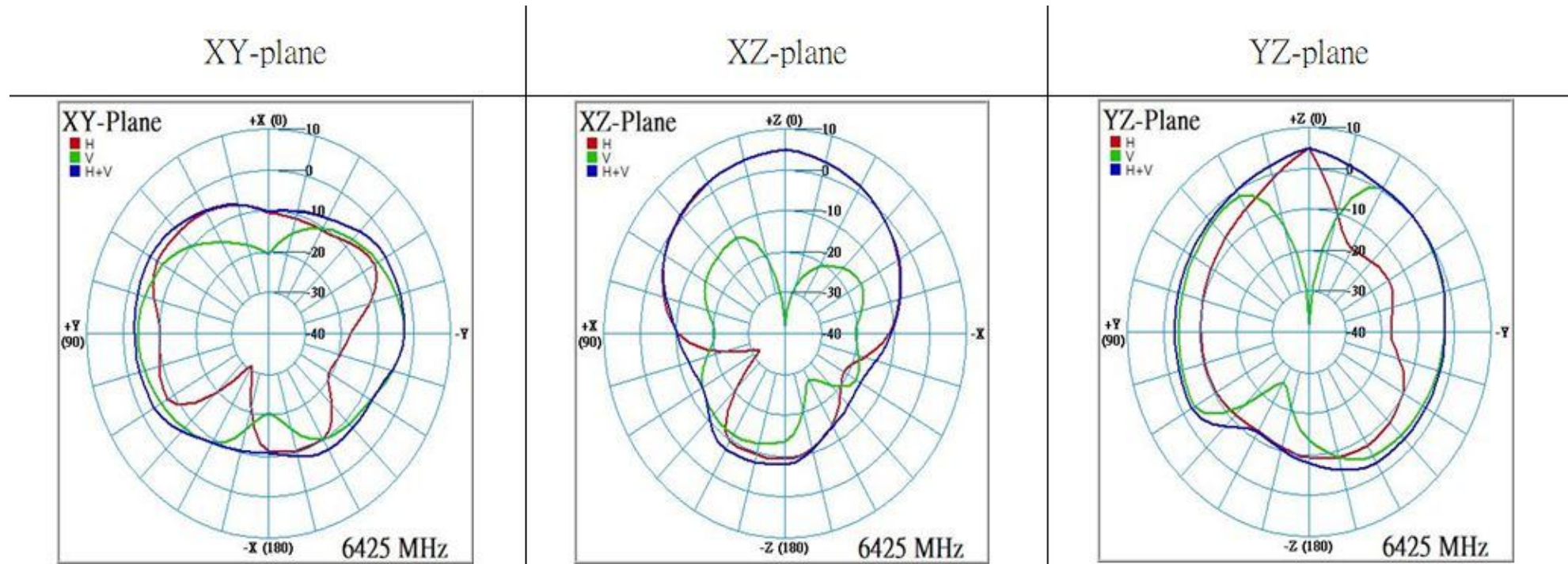
Radiation characteristics of antenna loaded in Host Platform @ 6325MHz:

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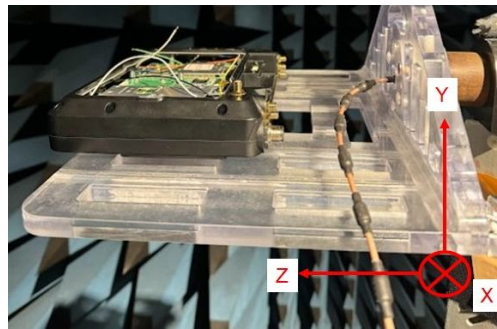
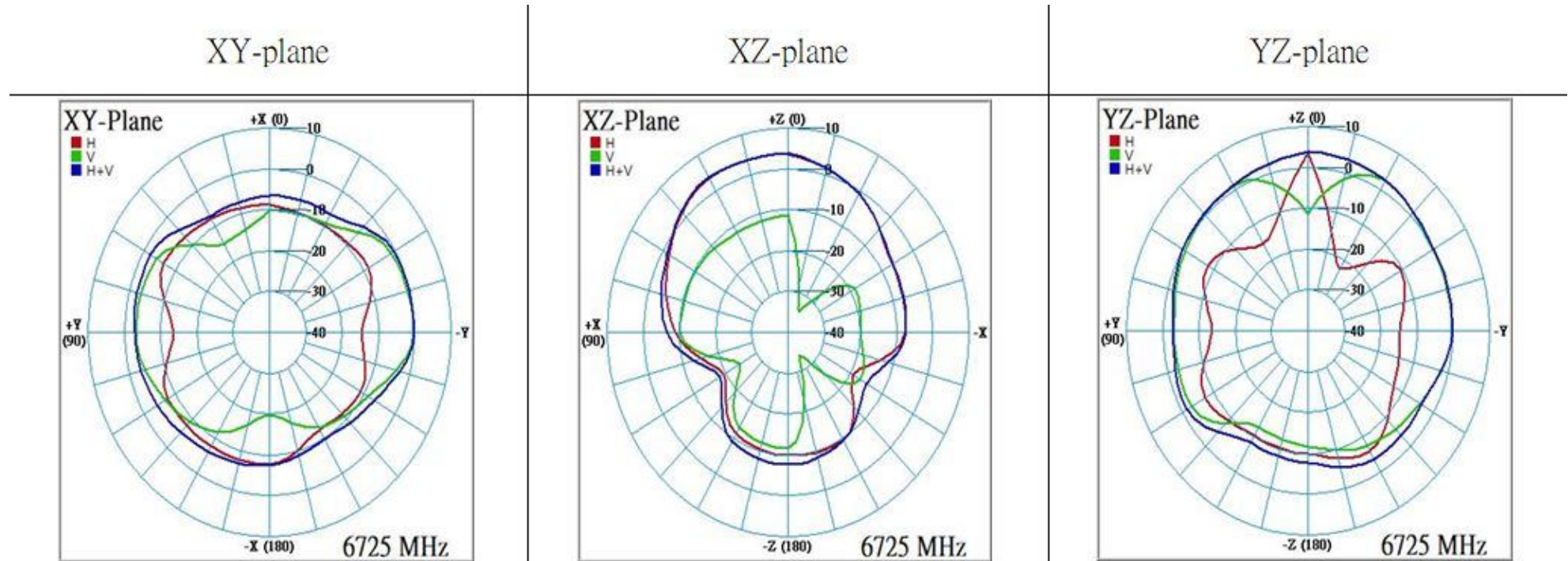
Radiation characteristics of antenna loaded in Host Platform @ 6425MHz:

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Radiation characteristics of antenna loaded in Host Platform @ 6725MHz:

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Radiation characteristics of antenna loaded in Host Platform @ 7000MHz:

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