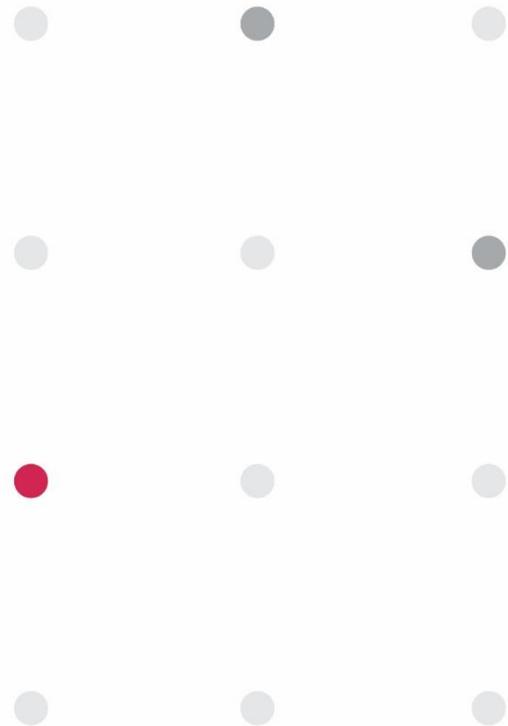


PSA

佳邦科技股份有限公司

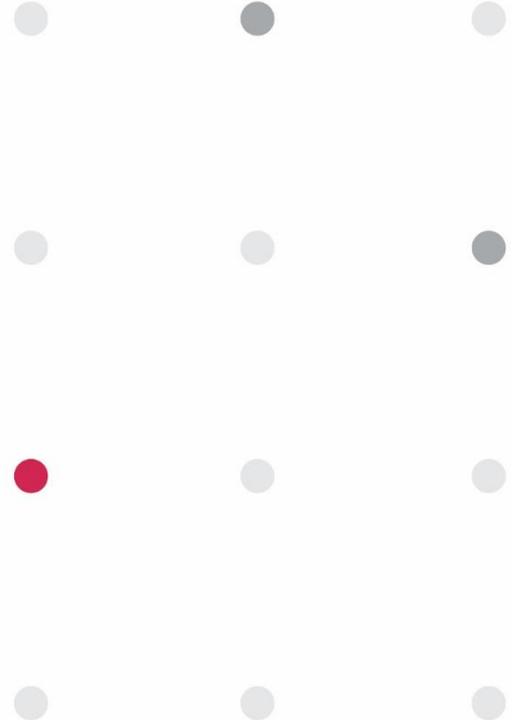
INPAQ TECHNOLOGY CO., LTD.

INPAQ P/N: WA-F-LA-02-120



PSA

PASSIVE SYSTEM ALLIANCE
INPAQ TECHNOLOGY CO., LTD.



Antenna manufacturer' s address

台灣禾邦 苗栗縣竹南鎮科義街38號1樓

1 F., No. 38, Keyi St., Zhunan Township, Miaoli County 35059, Taiwan (R.O.C.)

江苏省苏州市相城区黄埭潘阳工业园春秋路5号

-PSA華科事業群 Passive System Alliance-

禾邦电子 (苏州) 有限公司 INPAQ TECHNOLOGY CO., LTD

No.5, Chunqiu Road, Panyang Industrial Park, Huangdai Town, Xiangcheng Zone, Suzhou

FORTINET®

FG-3701F, FG-3700F, FG-3201F, FG-3200F

FG-3701F-DC, FG-3700F-DC, FG-3201F-DC, FG-3200F-DC

Presented by :Kevin Chen, RF R&D Dept.

Checked by :Leeting Hsieh

Approved by :ZhiWei Chen

INPAQ Technology Co., Ltd.

Last updated in Oct. 5 , 2022

Version:V0.0

Contents

Content Details

- Revised History
- Requirement of Antenna Design and Specification
- Results Summary (VSWR , peak gain, efficiency)
- 2D Radiation Pattern Results
- Conclusion & Comments

Revision History

Released Date	Version	Record
Oct. 5 th , 2022	0.0	Initial Release

Requirements of Antenna Design and Specification

Requirements of Antenna Design

RF Function	Number of ANT	Frequency Band	Remark
BT	1	2400 – 2500MHz	

Requirements of Antenna Design and Specification

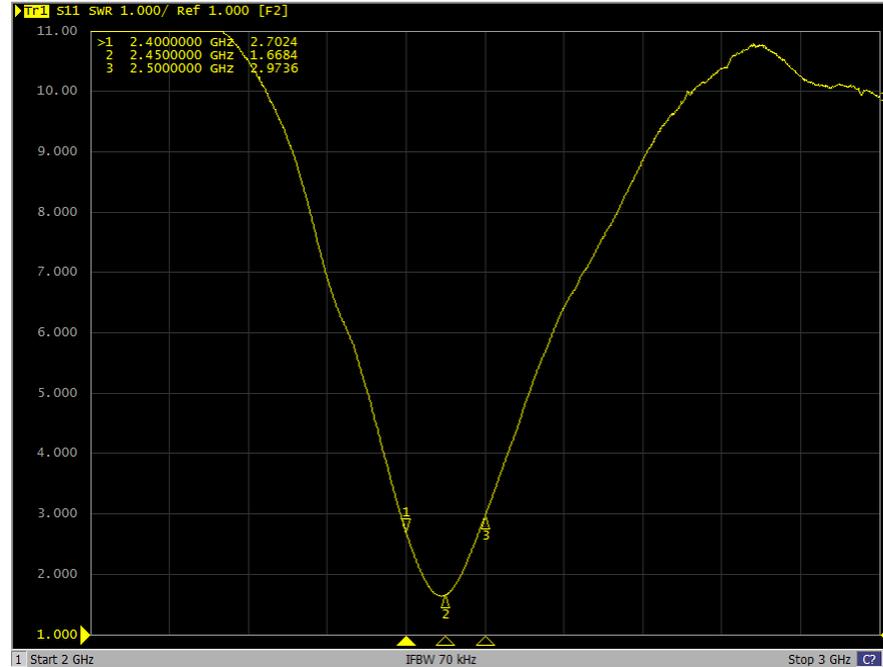
Requirements of Measurement

Item	Specification
Antenna Type	PIFA
Operating Frequency (MHz)	2400-2500
Bandwidth	100MHz
Return Loss	6 dB Typical
Polarization	Linear
Azimuth Bandwidth	Omni-directional
Peak Gain	1.78 dBi (Max)
Impedance	50Ω
Material	FPC
Maximum Power	1W
V.S.W.R	3:1
Radiation	Omni directional
Efficiency	49% (Max)
Connector / Cable Type	MHF I / O.D 1.13

VSWR Results

BT [2400 – 2500 MHz]

INPAQ



Results Summary

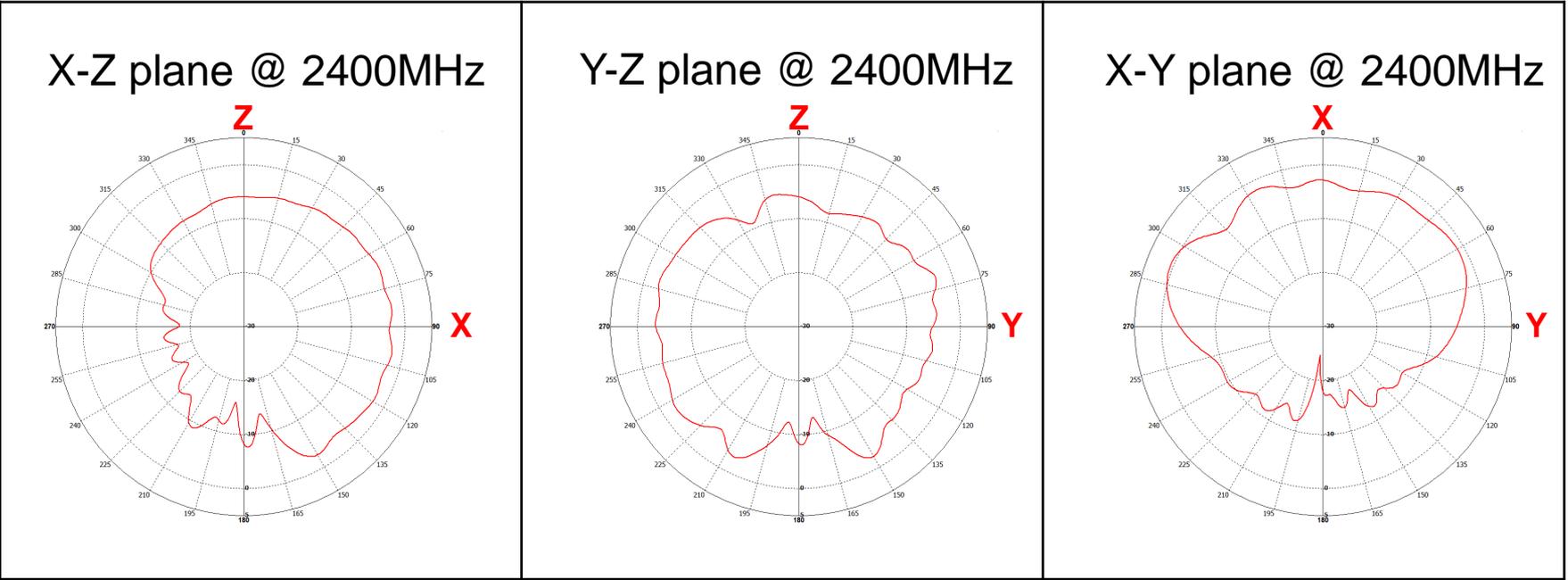
Peak gain & Efficiency – BT

INPAQ

Frequency (MHz)	Avg. Gain (dB)	Efficiency (%)	Peak Gain (dBi)	Peak Gain w/o Cable Loss (dBi)	Cable Loss
2400	-4.55	35.11	-0.02	0.68	0.701
2410	-4.24	37.66	0.67	1.37	0.702
2420	-3.63	43.36	1.19	1.89	0.704
2430	-3.4	45.75	1.4	2.11	0.706
2440	-3.35	46.20	1.62	2.33	0.707
2450	-3.27	47.10	1.7	2.41	0.712
2460	-3.06	49.44	1.75	2.46	0.712
2470	-3.24	47.44	1.78	2.49	0.712
2480	-3.47	44.95	1.61	2.33	0.715
2490	-3.88	40.92	0.9	1.62	0.716
2500	-4.24	37.68	0.22	0.94	0.719

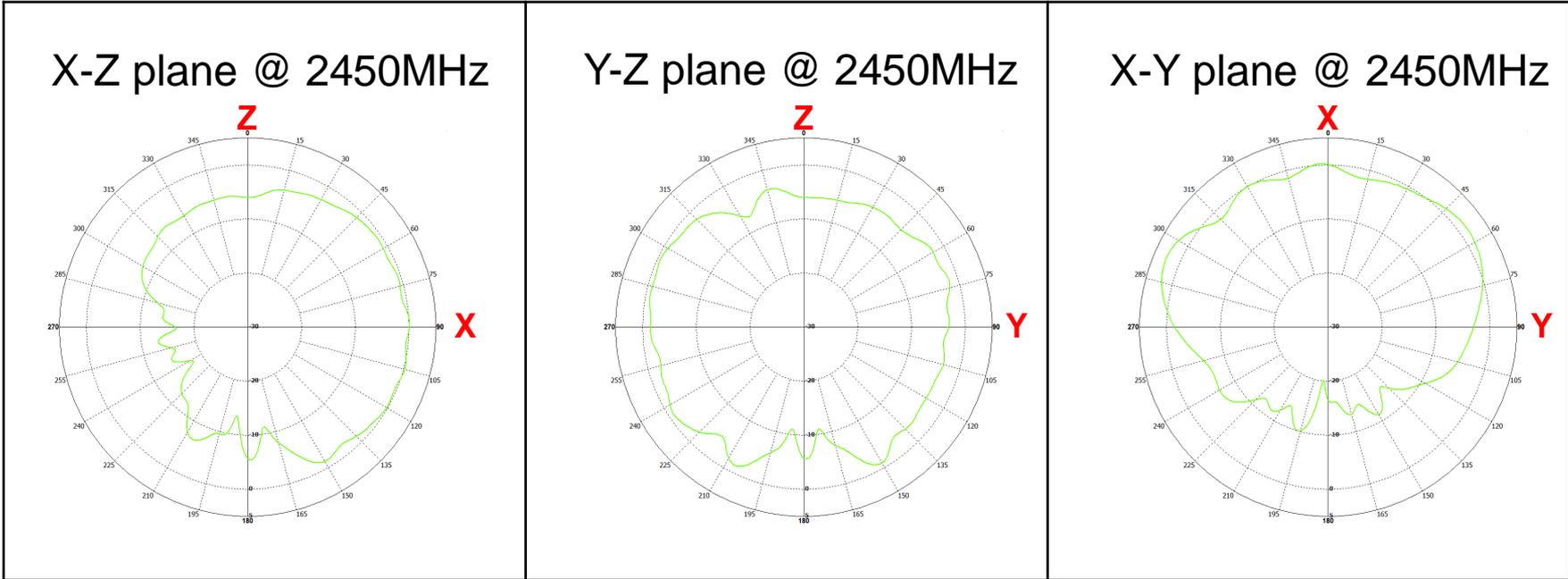
2D Radiation Pattern Results

BT@ 2400MHz



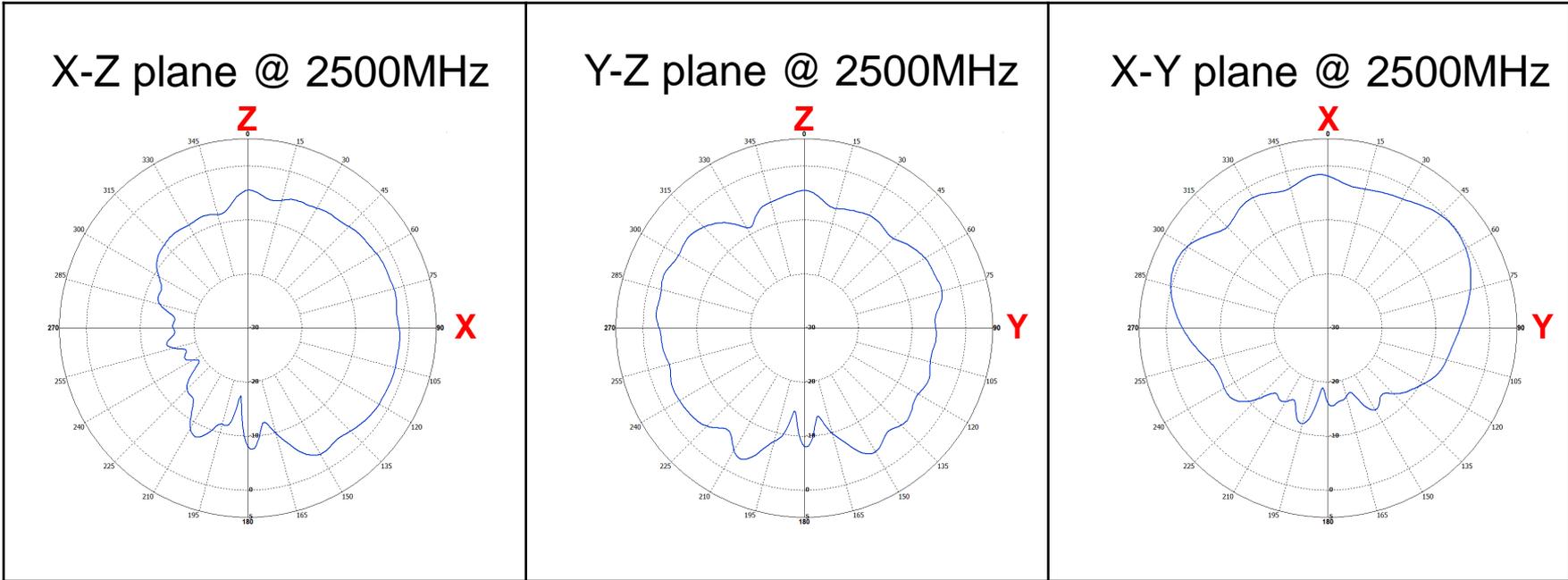
2D Radiation Pattern Results

BT@ 2450MHz



2D Radiation Pattern Results

BT@ 2500MHz



Thank you

本資料均屬機密，僅供指定之收件人使用，未經寄件人許可不得揭露、複製或散佈本信件。

This message and any attachments are confidential and may be legally privileged. Any unauthorized review, use or distribution by anyone other than the intended recipient is strictly prohibited. If you are not the intended recipient, please immediately notify the sender, completely delete this documents, and destroy all copies. Your cooperation will be highly appreciated.