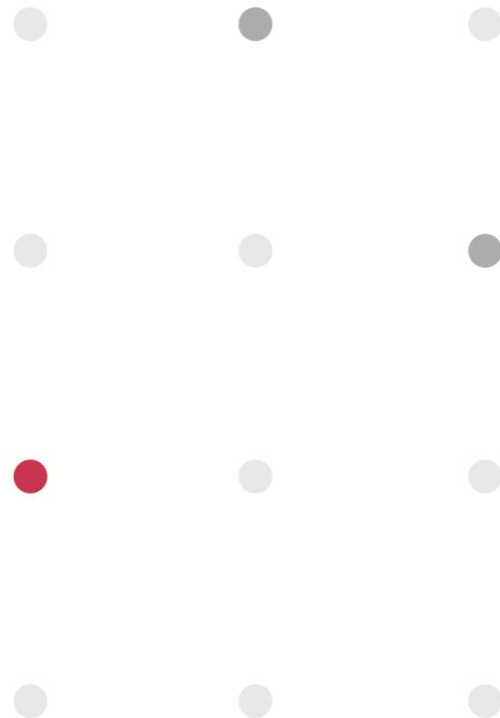


PSA

佳邦科技股份有限公司

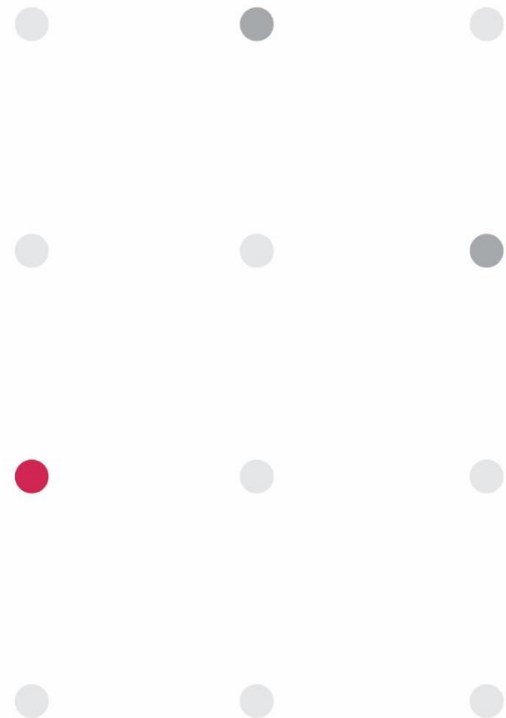
INPAQ TECHNOLOGY CO., LTD.

WE CONNECT & WE PROTECT WE ARE ONE



PSA

PASSIVE SYSTEM ALLIANCE
INPAQ TECHNOLOGY CO., LTD.
WE CONNECT & WE PROTECT WE ARE ONE



Primax Falcon

Presented by
Ellen Lin, RFRD Department
INPAQ Technology Co., Ltd.

Last updated in 04.10, 2026



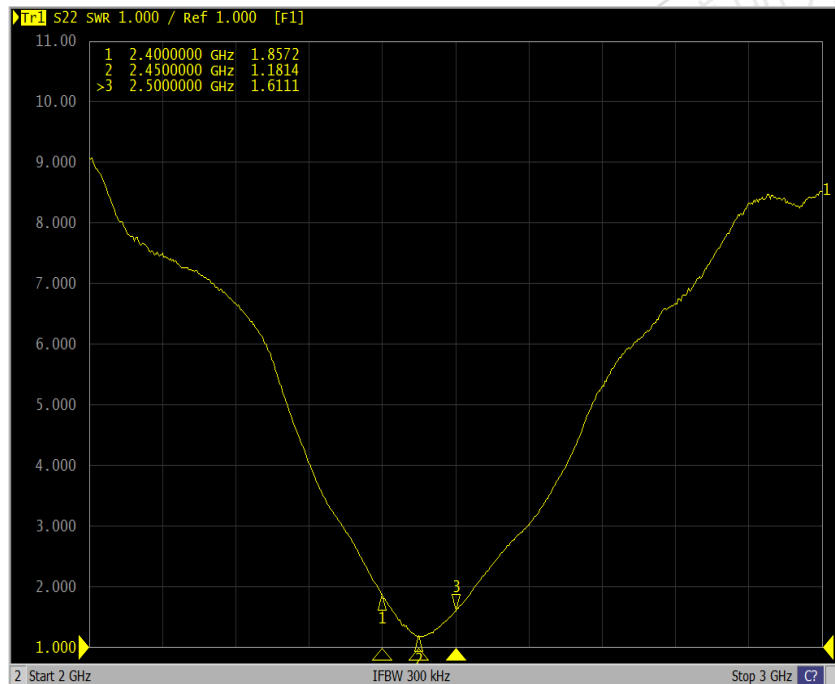
Outline

- **VSWR**
- **Results Summary**
- **2D Radiation Pattern**
- **Conclusions**



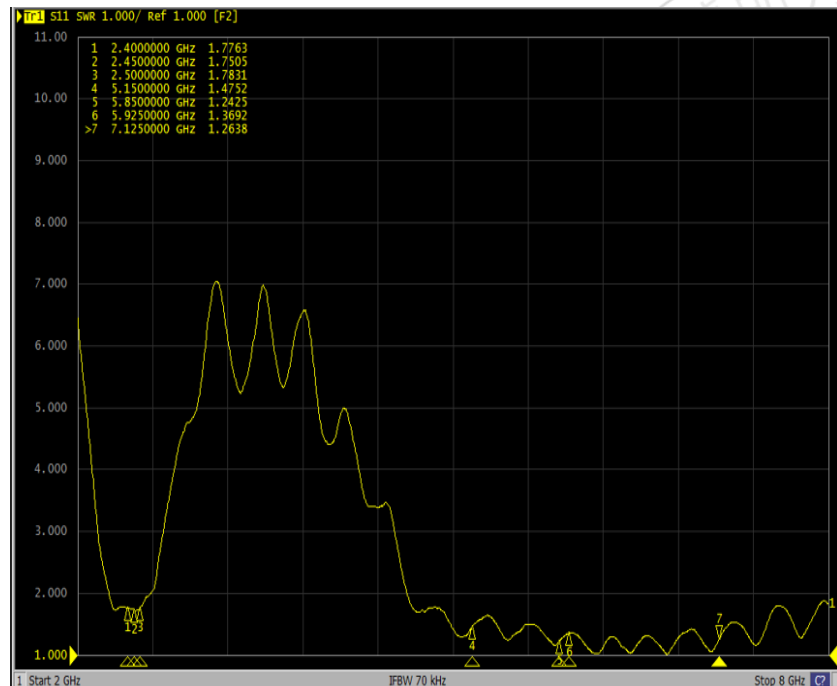
VSWR

BT



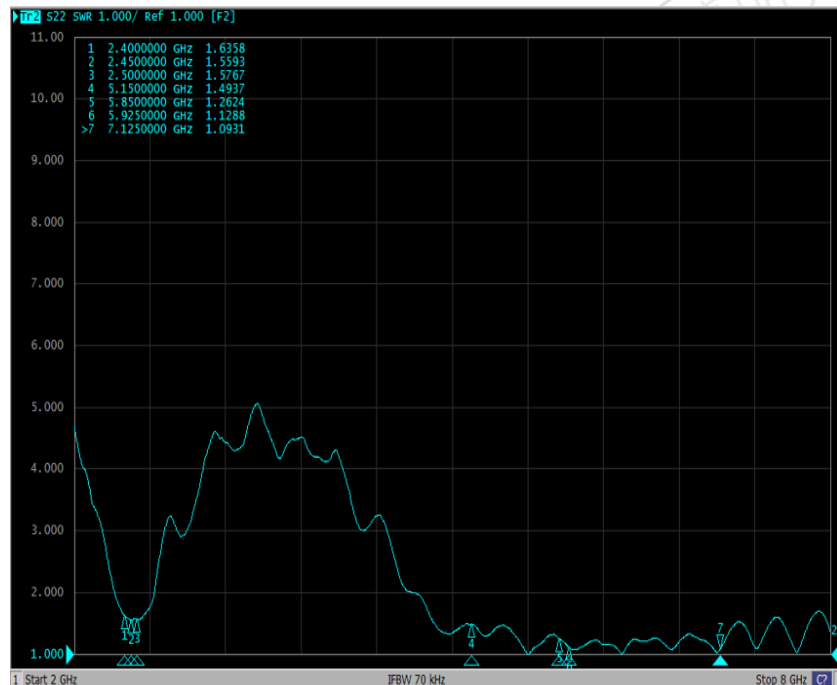
VSWR

ANT1



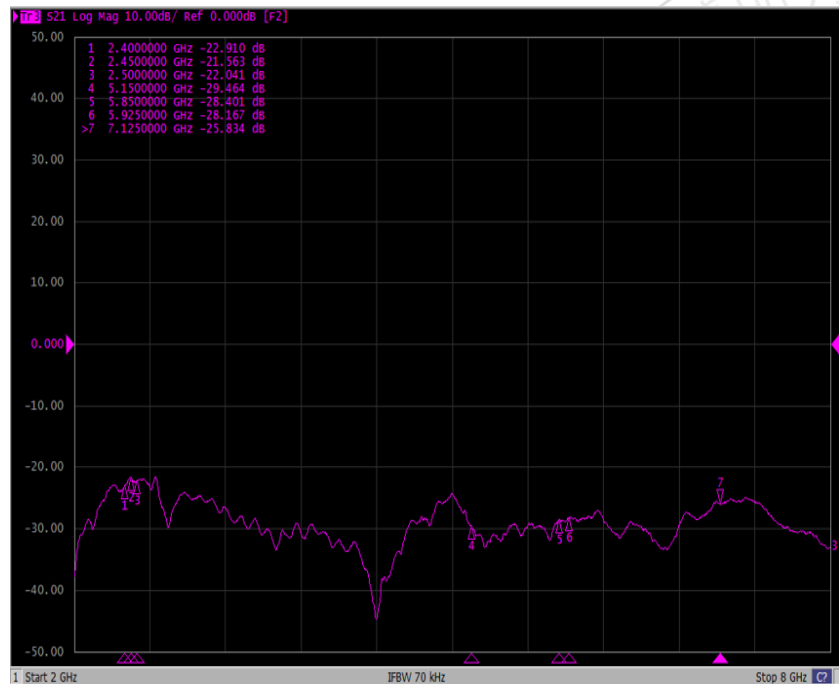
VSWR

ANT2



VSWR

ANT Isolation



Results Summary

BT			
Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)	Efficiency (dB)
2400	0.65	40.54	-3.92
2410	1.02	41.81	-3.79
2420	1.18	42.34	-3.73
2430	1.31	43.12	-3.65
2440	1.70	43.57	-3.61
2450	1.74	42.79	-3.69
2460	1.79	41.66	-3.80
2470	1.73	41.06	-3.87
2480	1.52	41.33	-3.84
2490	1.10	41.10	-3.86
2500	0.88	40.61	-3.91

Results Summary

ANT1			
Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)	Efficiency (dB)
2400	3.72	40.74	-3.9
2410	3.88	40.93	-3.88
2420	3.55	41.5	-3.82
2430	3.35	42.36	-3.73
2440	3.32	43.45	-3.62
2450	3.33	45.08	-3.46
2460	3.25	48.31	-3.16
2470	3.57	49.09	-3.09
2480	3.42	48.19	-3.17
2490	3.50	48.64	-3.13
2500	3.34	43.75	-3.59
5150	2.43	41.69	-3.8
5200	3.59	42.27	-3.74
5250	3.63	44.36	-3.53
5300	3.37	42.56	-3.71
5350	3.78	45.08	-3.46
5400	3.31	42.85	-3.68

ANT1			
Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)	Efficiency (dB)
5450	3.33	42.07	-3.76
5500	3.80	43.45	-3.62
5550	3.77	44.98	-3.47
5600	3.73	42.95	-3.67
5650	3.80	45.81	-3.39
5700	3.75	45.08	-3.46
5750	3.84	47.86	-3.2
5800	3.27	48.42	-3.15
5850	3.15	44.87	-3.48
5900	3.02	50.23	-2.99
5950	3.38	47.32	-3.25
6000	3.55	44.98	-3.47
6050	3.01	41.21	-3.85
6100	2.72	43.25	-3.64
6150	3.14	44.36	-3.53
6200	3.78	43.95	-3.57
6250	3.67	43.85	-3.58

ANT1			
Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)	Efficiency (dB)
6300	3.67	42.76	-3.69
6350	3.18	41.78	-3.79
6400	3.01	41.3	-3.84
6450	2.79	41.59	-3.81
6500	2.45	42.36	-3.73
6550	2.90	44.26	-3.54
6600	3.57	43.45	-3.62
6650	3.66	44.46	-3.52
6700	2.69	42.95	-3.67
6750	3.21	43.45	-3.62
6800	3.02	42.56	-3.71
6850	2.19	41.98	-3.77
6900	2.49	43.75	-3.59
6950	3.60	44.77	-3.49
7000	3.17	44.26	-3.54
7050	3.03	45.19	-3.45
7100	3.29	42.66	-3.7
7150	2.98	43.15	-3.65

Results Summary

ANT2			
Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)	Efficiency (dB)
2400	1.05	41.88	-3.78
2410	1.01	42.36	-3.73
2420	1.93	42.56	-3.71
2430	1.91	41.78	-3.79
2440	1.89	41.59	-3.81
2450	1.49	41.98	-3.77
2460	1.15	44.36	-3.53
2470	1.10	45.81	-3.39
2480	1.12	47.1	-3.27
2490	1.32	46.99	-3.28
2500	1.83	45.6	-3.41
5150	2.42	46.13	-3.36
5200	3.39	43.95	-3.57
5250	3.58	47.1	-3.27
5300	2.64	48.87	-3.11
5350	2.13	49.43	-3.06
5400	3.31	47.86	-3.2

ANT2			
Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)	Efficiency (dB)
5450	2.96	44.16	-3.55
5500	3.41	43.45	-3.62
5550	3.39	46.88	-3.29
5600	2.59	42.27	-3.74
5650	3.65	44.98	-3.47
5700	2.83	43.15	-3.65
5750	2.70	45.39	-3.43
5800	3.29	46.67	-3.31
5850	3.19	43.55	-3.61
5900	3.24	48.08	-3.18
5950	3.18	47.32	-3.25
6000	3.25	45.39	-3.43
6050	2.63	41.59	-3.81
6100	2.67	41.4	-3.83
6150	2.56	42.36	-3.73
6200	3.04	42.46	-3.72
6250	2.43	43.35	-3.63

ANT2			
Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)	Efficiency (dB)
6300	2.52	42.85	-3.68
6350	3.03	41.78	-3.79
6400	3.29	41.59	-3.81
6450	3.14	40.27	-3.95
6500	2.55	42.07	-3.76
6550	2.59	43.35	-3.63
6600	2.37	41.21	-3.85
6650	2.58	42.27	-3.74
6700	2.43	40.74	-3.9
6750	2.87	40.83	-3.89
6800	2.36	41.02	-3.87
6850	2.33	41.21	-3.85
6900	2.45	43.65	-3.6
6950	3.04	42.66	-3.7
7000	2.03	40.46	-3.93
7050	2.56	43.75	-3.59
7100	2.19	41.59	-3.81
7150	2.48	41.78	-3.79

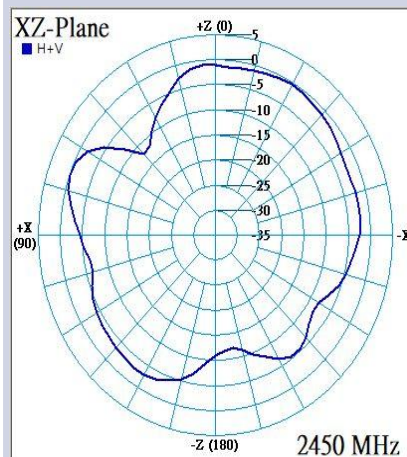
2D Radiation Pattern

BT unit

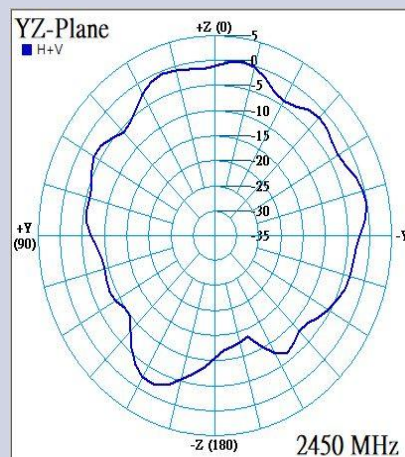
Gain Total

2450MHz

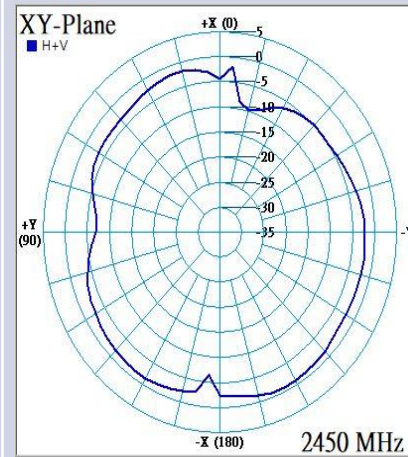
X-Z plane



Y-Z plane



X-Y plane



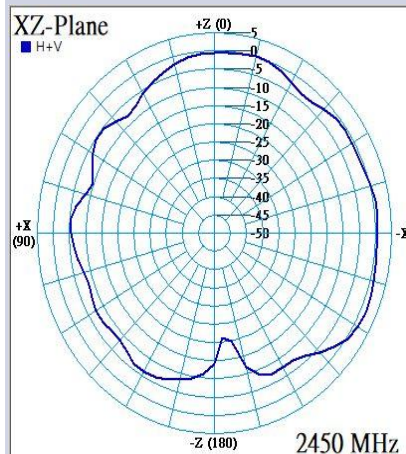
2D Radiation Pattern

ANT1 unit

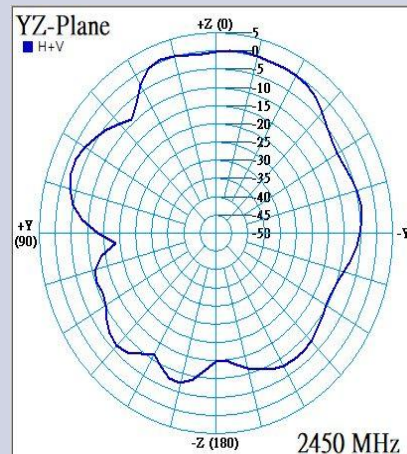
Gain Total

2450MHz

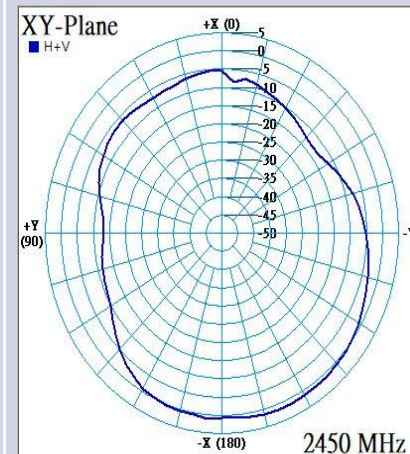
X-Z plane



Y-Z plane



X-Y plane



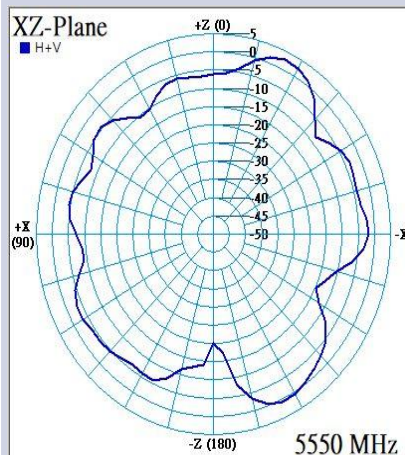
2D Radiation Pattern

ANT1 unit

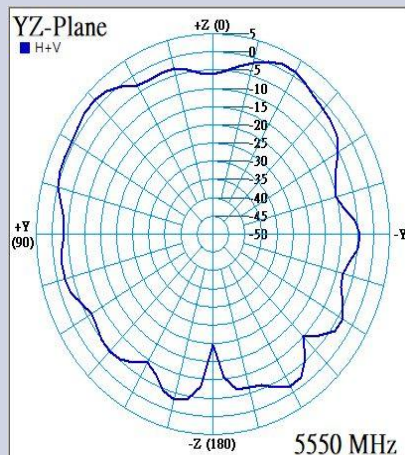
Gain Total

5550MHz

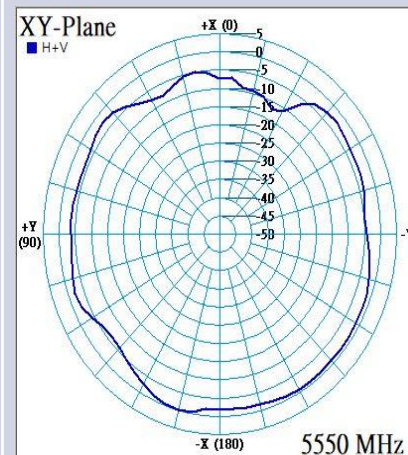
X-Z plane



Y-Z plane



X-Y plane



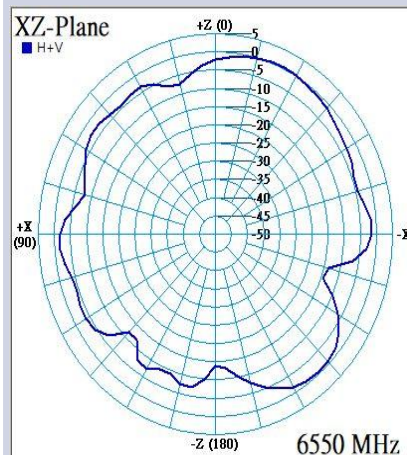
2D Radiation Pattern

ANT1 unit

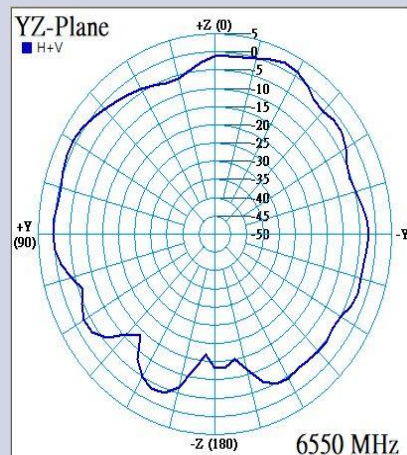
Gain Total

6550MHz

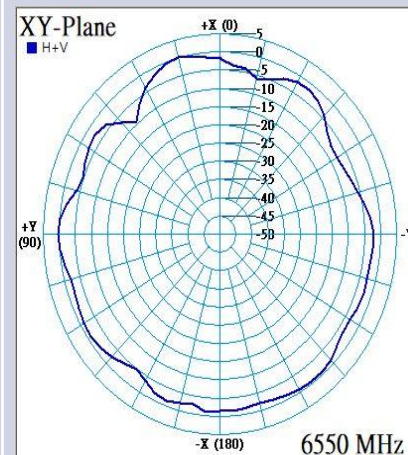
X-Z plane



Y-Z plane



X-Y plane



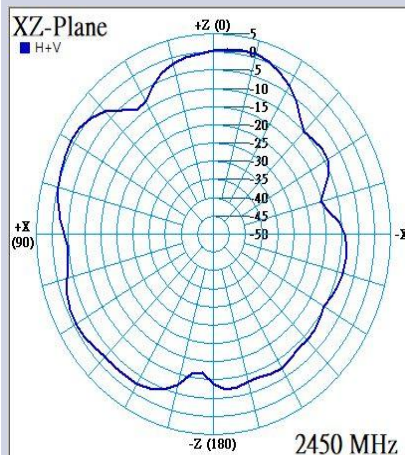
2D Radiation Pattern

ANT2 unit

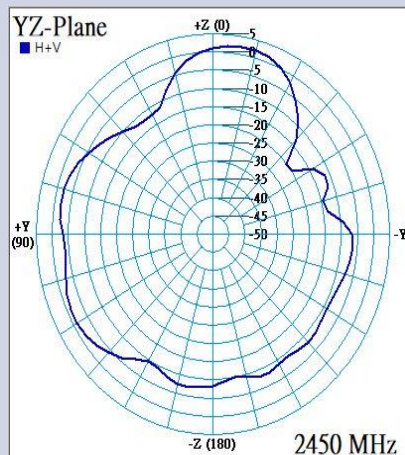
Gain Total

2450MHz

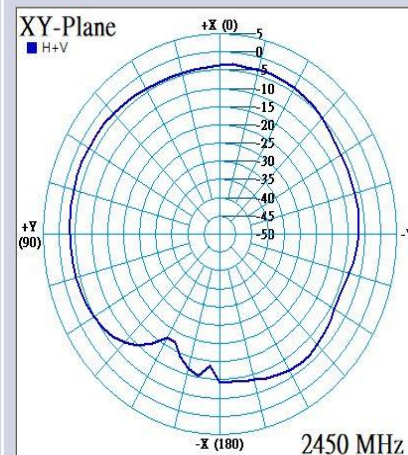
X-Z plane



Y-Z plane



X-Y plane



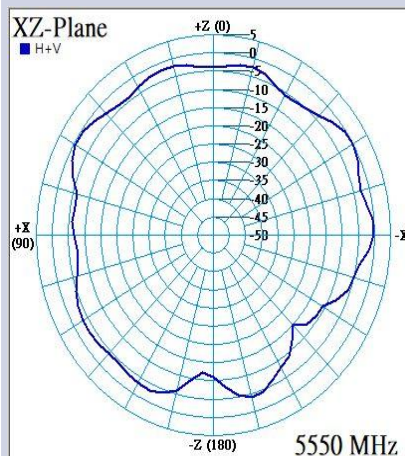
2D Radiation Pattern

ANT2 unit

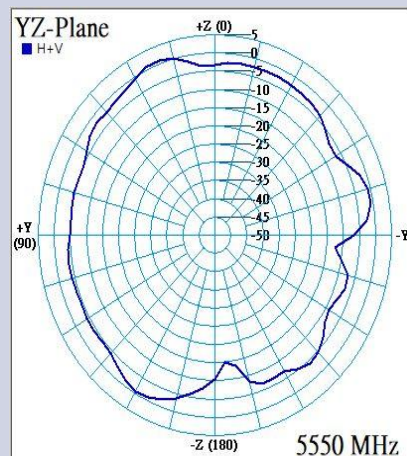
Gain Total

5550MHz

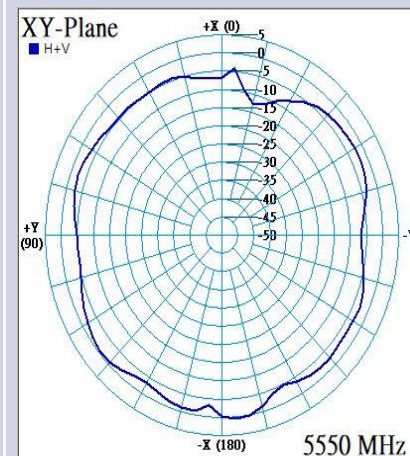
X-Z plane



Y-Z plane



X-Y plane



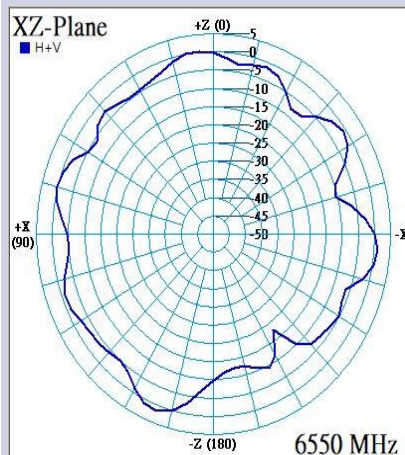
2D Radiation Pattern

ANT2 unit

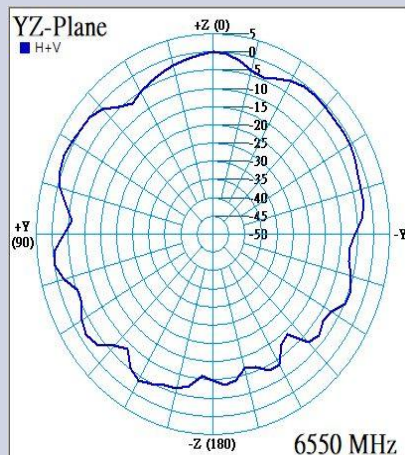
Gain Total

6550MHz

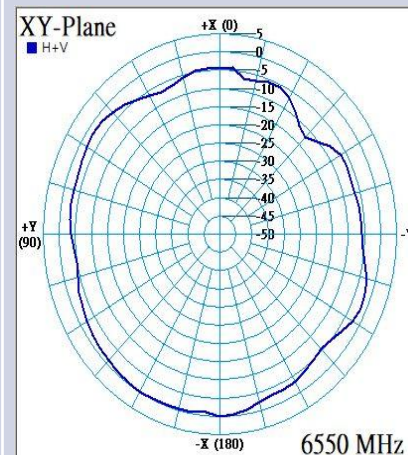
X-Z plane



Y-Z plane



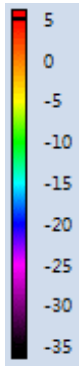
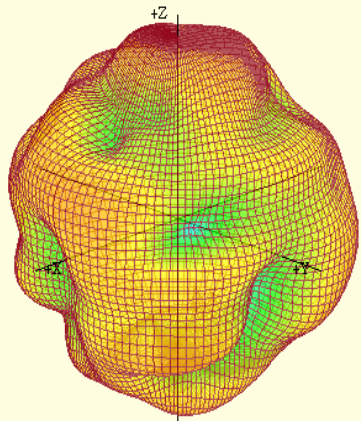
X-Y plane



3D Radiation Pattern

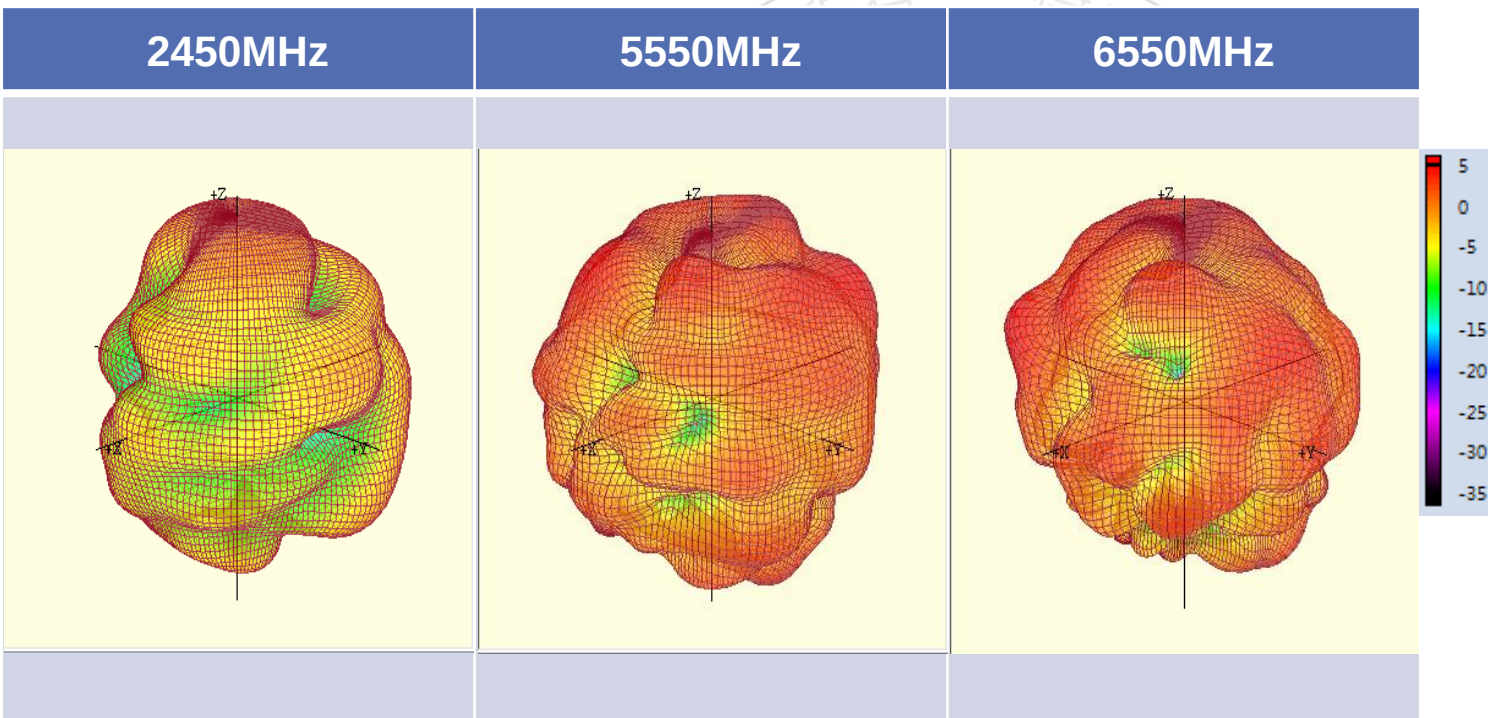
BT unit

2450MHz



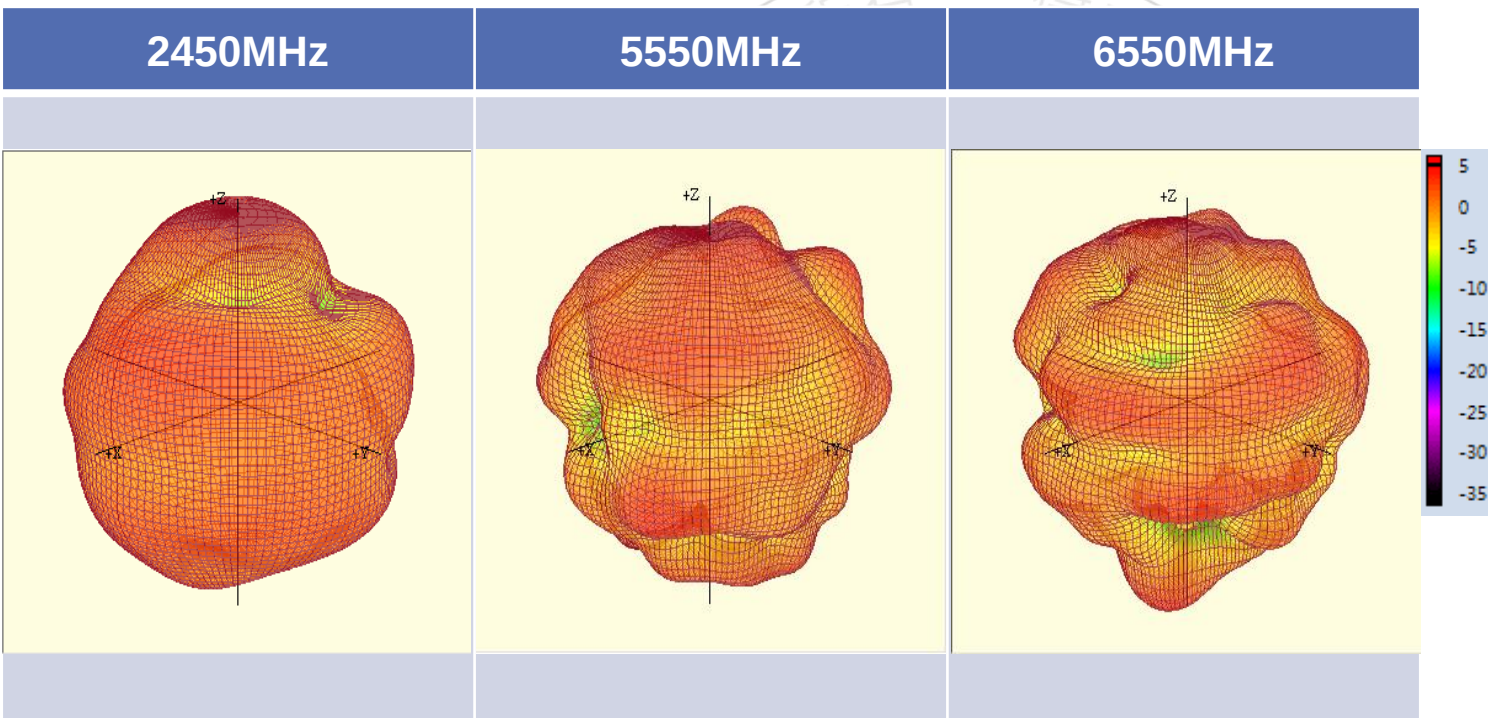
3D Radiation Pattern

ANT1 unit



3D Radiation Pattern

ANT2 unit

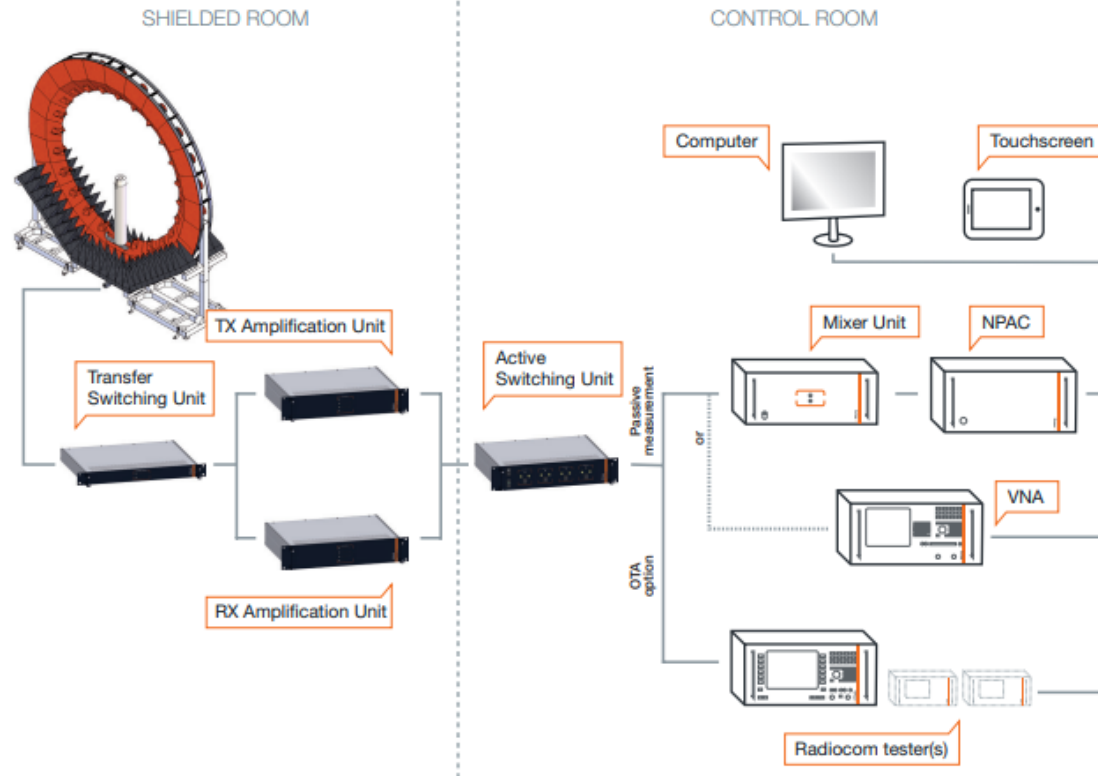


Conclusions

- The ANT efficiency can reach 40%
- The gain of 2/5/6GHz <4 dBi respectively.



Test Information



Test Information

Equipment Description	Manufacturer	Identification no.	Calibration date info	Calibration validity period
Network Analyzer	Agilent	E5071C	2025/12/15	1 year
Sleeve Dipole	MVG	SD740	2026/03/07	1 year
Dual Ridge Horn	MVG	SH800	2026/03/07	1 year
Stargate-24-L probe array	MVG	Stargate	2026/03/07	1 year
Measurement software	MVG	SPM V1.9	2026/03/07	1 year

Measure method

1. Using a low loss coaxial cable to link a standard handset jig
2. Fixed this handset jig on chamber's rotator plane
3. Linking jig into network analyzer port and using a probing horn antenna to collect data
4. Using another standard gain horn antenna to calibrated those data

Note: Chamber calibration included full set of implement Test lab.

Address: No.90, Keyi St., Zhunan Township, Miaoli County 350402 Taiwan (R.O.C.)

Test date: 2026/4/10

Tester : Peng Shaojun

Item	Antenna Part number	Vendor	Type	Cable length
ANT1	WA-F-LE-01-023	INPAQ	Dipole	270mm
ANT2	WA-F-LE-02-076	INPAQ	Dipole	296mm

Thank you

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